Full wwPDB EM Validation Report

Dec 23, 2025 – 12:31 AM JST

PDB ID	:	9LY9 / pdb_00009ly9
EMDB ID	:	EMD-62529
Title	:	Cryo-EM structure of carboxysomal mid-shell: T = 16 shell under C1 symmetry.
Authors	:	Li, J.X.; Li, T.P.; Wang, S.M.; Zhang, Y.Z.; Liu, L.N.; Wang, P.
Deposited on	:	2025-02-19
Resolution	:	3.71 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

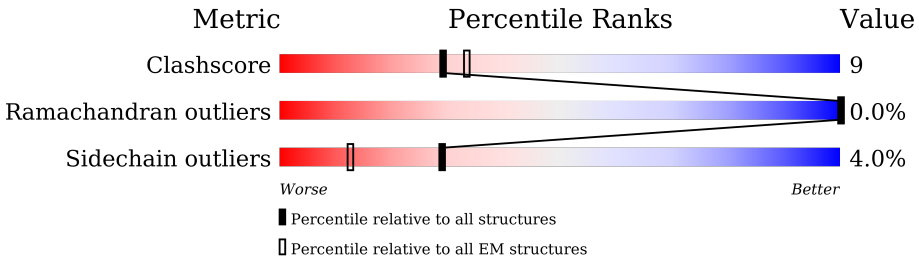
EMDB validation analysis	:	0.0.1.dev129
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.47

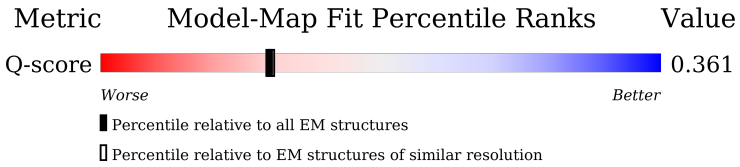
1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.71 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.





Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	10534 (3.21 - 4.21)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A0	98	56% 33% 5% 6%
1	A1	98	58% 31% 5% 6%
1	A2	98	56% 33% 5% 6%
1	A3	98	56% 32% 6% 6%

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Mol	Chain	Length	Quality of chain
1	A4	98	57% 32% 5% 6%
1	A5	98	56% 33% 5% 6%
1	A6	98	58% 31% 5% 6%
1	A7	98	57% 32% 5% 6%
1	A8	98	57% 32% 5% 6%
1	A9	98	57% 32% 5% 6%
1	AA	98	58% 31% 5% 6%
1	AB	98	56% 33% 5% 6%
1	AC	98	55% 33% 6% 6%
1	AD	98	54% 34% 6% 6%
1	AE	98	56% 33% 5% 6%
1	AF	98	56% 33% 5% 6%
1	AG	98	58% 31% 5% 6%
1	AH	98	56% 33% 5% 6%
1	AI	98	56% 33% 5% 6%
1	AJ	98	56% 33% 5% 6%
1	AK	98	56% 33% 5% 6%
1	AL	98	59% 30% 5% 6%
1	AM	98	56% 33% 5% 6%
1	AN	98	57% 32% 5% 6%
1	AO	98	56% 33% 5% 6%
1	AP	98	57% 31% 6% 6%
1	AQ	98	56% 33% 5% 6%
1	AR	98	57% 32% 5% 6%
1	AS	98	57% 32% 5% 6%

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Mol	Chain	Length	Quality of chain
1	AT	98	56% 33% 5% 6%
1	AU	98	55% 33% 6% 6%
1	AV	98	57% 31% 6% 6%
1	AW	98	56% 33% 5% 6%
1	AX	98	56% 33% 5% 6%
1	AY	98	56% 33% 5% 6%
1	AZ	98	56% 33% 5% 6%
1	Aa	98	59% 30% 5% 6%
1	Ab	98	57% 32% 5% 6%
1	Ac	98	56% 33% 5% 6%
1	Ad	98	57% 32% 5% 6%
1	Ae	98	58% 31% 5% 6%
1	Af	98	56% 33% 5% 6%
1	Ag	98	56% 33% 5% 6%
1	Ah	98	56% 33% 5% 6%
1	Ai	98	57% 32% 5% 6%
1	Aj	98	57% 32% 5% 6%
1	Ak	98	58% 31% 5% 6%
1	Al	98	56% 33% 5% 6%
1	Am	98	53% 36% 5% 6%
1	An	98	57% 32% 5% 6%
1	Ao	98	57% 32% 5% 6%
1	Ap	98	55% 32% 7% 6%
1	Aq	98	57% 32% 5% 6%
1	Ar	98	58% 31% 5% 6%

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Mol	Chain	Length	Quality of chain
1	As	98	57% 32% 5% 6%
1	At	98	57% 32% 5% 6%
1	Au	98	55% 33% 6% 6%
1	Av	98	58% 31% 5% 6%
1	Aw	98	56% 33% 5% 6%
1	Ax	98	57% 32% 5% 6%
1	B0	98	62% 31% 6%
1	B1	98	62% 31% 6%
1	B2	98	62% 31% 6%
1	B3	98	61% 32% 6%
1	B4	98	61% 32% 6%
1	B5	98	62% 31% 6%
1	B6	98	61% 32% 6%
1	B7	98	65% 28% 6%
1	B8	98	60% 33% 6%
1	B9	98	62% 31% 6%
1	BA	98	62% 31% 6%
1	BB	98	63% 30% 6%
1	BC	98	64% 29% 6%
1	BD	98	62% 31% 6%
1	BE	98	64% 29% 6%
1	BF	98	62% 31% 6%
1	BG	98	62% 31% 6%
1	BH	98	62% 31% 6%
1	BI	98	63% 30% 6%

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Mol	Chain	Length	Quality of chain
1	BJ	98	61% 32% • 6%
1	BK	98	64% 29% • 6%
1	BL	98	54% 37% • 6%
1	BM	98	66% 27% • 6%
1	BN	98	60% 33% • 6%
1	BO	98	64% 29% • 6%
1	BP	98	61% 32% • 6%
1	BQ	98	63% 30% • 6%
1	BR	98	61% 32% • 6%
1	BS	98	63% 30% • 6%
1	BT	98	64% 29% • 6%
1	BU	98	63% 30% • 6%
1	BV	98	61% 32% • 6%
1	BW	98	63% 30% • 6%
1	BX	98	54% 36% • 9%
1	BY	98	62% 31% • 6%
1	BZ	98	64% 29% • 6%
1	Ba	98	60% 33% • 6%
1	Bb	98	64% 29% • 6%
1	Bc	98	62% 31% • 6%
1	Bd	98	63% 30% • 6%
1	Be	98	62% 31% • 6%
1	Bf	98	64% 29% • 6%
1	Bg	98	62% 31% • 6%
1	Bh	98	63% 30% • 6%

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Mol	Chain	Length	Quality of chain
1	Bi	98	63% 30% • 6%
1	Bj	98	64% 29% • 6%
1	Bk	98	62% 31% • 6%
1	Bl	98	63% 30% • 6%
1	Bm	98	58% 35% • 6%
1	Bn	98	62% 31% • 6%
1	Bo	98	63% 30% • 6%
1	Bp	98	61% 32% • 6%
1	Bq	98	65% 28% • 6%
1	Br	98	63% 30% • 6%
1	Bs	98	62% 31% • 6%
1	Bt	98	63% 30% • 6%
1	Bu	98	63% 30% • 6%
1	Bv	98	63% 30% • 6%
1	Bw	98	62% 31% • 6%
1	Bx	98	64% 29% • 6%
1	C0	98	65% 28% • 6%
1	C1	98	65% 28% • 6%
1	C2	98	65% 28% • 6%
1	C3	98	65% 28% • 6%
1	C4	98	63% 30% • 6%
1	C5	98	67% 26% • 6%
1	C6	98	66% 27% • 6%
1	C7	98	65% 28% • 6%
1	C8	98	67% 26% • 6%

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Mol	Chain	Length	Quality of chain
1	C9	98	63% 30% • 6%
1	CA	98	66% 27% • 6%
1	CB	98	67% 26% • 6%
1	CC	98	67% 26% • 6%
1	CD	98	65% 28% • 6%
1	CE	98	67% 26% • 6%
1	CF	98	65% 28% • 6%
1	CG	98	66% 27% • 6%
1	CH	98	65% 28% • 6%
1	CI	98	67% 24% • 6%
1	CJ	98	64% 29% • 6%
1	CK	98	67% 26% • 6%
1	CL	98	66% 27% • 6%
1	CM	98	66% 27% • 6%
1	CN	98	66% 27% • 6%
1	CO	98	63% 30% • 6%
1	CP	98	66% 27% • 6%
1	CQ	98	67% 26% • 6%
1	CR	98	66% 27% • 6%
1	CS	98	65% 28% • 6%
1	CT	98	66% 27% • 6%
1	CU	98	64% 29% • 6%
1	CV	98	65% 28% • 6%
1	CW	98	64% 29% • 6%
1	CX	98	66% 27% • 6%

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Mol	Chain	Length	Quality of chain
1	CY	98	65% 28% • 6%
1	CZ	98	68% 24% • 6%
1	Ca	98	65% 28% • 6%
1	Cb	98	66% 27% • 6%
1	Cc	98	66% 26% • 6%
1	Cd	98	65% 28% • 6%
1	Ce	98	65% 28% • 6%
1	Cf	98	66% 27% • 6%
1	Cg	98	66% 26% • 6%
1	Ch	98	64% 29% • 6%
1	Ci	98	67% 26% • 6%
1	Cj	98	66% 27% • 6%
1	Ck	98	66% 27% • 6%
1	Cl	98	66% 27% • 6%
1	Cm	98	66% 26% • 6%
1	Cn	98	65% 28% • 6%
1	Co	98	68% 24% • 6%
1	Cp	98	65% 28% • 6%
1	Cq	98	65% 28% • 6%
1	Cr	98	67% 24% • 6%
1	Cs	98	65% 28% • 6%
1	Ct	98	64% 29% • 6%
1	Cu	98	66% 27% • 6%
1	Cv	98	66% 26% • 6%
1	Cw	98	64% 29% • 6%

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Mol	Chain	Length	Quality of chain
1	Cx	98	67% 26% 6%
1	D0	98	54% 32% 7% 6%
1	D1	98	62% 27% 6%
1	D2	98	56% 31% 7% 6%
1	D3	98	58% 30% 5% 6%
1	D4	98	43% 46% 5% 6%
1	D5	98	60% 29% 6%
1	D6	98	59% 30% 6%
1	D7	98	50% 43% 6%
1	D8	98	59% 29% 5% 6%
1	D9	98	60% 29% 6%
1	DA	98	63% 26% 6%
1	DB	98	46% 41% 7% 6%
1	DC	98	55% 33% 5% 6%
1	DD	98	51% 38% 5% 6%
1	DE	98	59% 30% 6%
1	DF	98	59% 26% 6% 9%
1	DG	98	63% 26% 6%
1	DH	98	50% 40% 6%
1	DI	98	50% 40% 6%
1	DJ	98	53% 35% 6%
1	DK	98	60% 29% 6%
1	DL	98	59% 30% 6%
1	DM	98	54% 32% 7% 6%
1	DN	98	57% 31% 5% 6%

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Mol	Chain	Length	Quality of chain
1	DO	98	61% 28% 6%
1	DP	98	63% 26% 6%
1	DQ	98	61% 26% 6% 6%
1	DR	98	64% 24% 6%
1	DS	98	44% 39% 11% 6%
1	DT	98	61% 28% 6%
1	DU	98	59% 29% 6% 6%
1	DV	98	60% 29% 6%
1	DW	98	59% 26% 5% 9%
1	DX	98	54% 34% 6% 6%
1	DY	98	52% 37% 6%
1	DZ	98	62% 27% 5% 6%
1	Da	98	60% 29% 6%
1	Db	98	49% 39% 5% 6%
1	Dc	98	57% 31% 5% 6%
1	Dd	98	60% 29% 6%
1	De	98	63% 26% 6%
1	Df	98	54% 27% 11% 6%
1	Dg	98	57% 32% 6%
1	Dh	98	34% 46% 14% 6%
1	Di	98	61% 28% 6%
1	Dj	98	61% 22% 6% 9%
1	Dk	98	62% 27% 6%
1	Dl	98	53% 33% 9%
1	Dm	98	53% 36% 6%

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Mol	Chain	Length	Quality of chain
1	Dn	98	52% 41% 6%
1	Do	98	62% 27% 5% 6%
1	Dp	98	58% 31% 6%
1	Dq	98	47% 42% 5% 6%
1	Dr	98	57% 31% 5% 6%
1	Ds	98	58% 31% 6%
1	Dt	98	62% 27% 6%
1	Du	98	61% 23% 5% 9%
1	Dv	98	57% 31% 5% 6%
1	Dw	98	46% 41% 7% 6%
1	Dx	98	59% 29% 5% 6%
1	E0	98	70% 20% 6%
1	E1	98	66% 23% 6%
1	E2	98	69% 20% 6%
1	E3	98	65% 23% 5% 6%
1	E4	98	69% 20% 6%
1	E5	98	65% 26% 6%
1	E6	98	69% 20% 6%
1	E7	98	65% 24% 6%
1	E8	98	69% 21% 6%
1	E9	98	66% 23% 6%
1	EA	98	65% 24% 6%
1	EB	98	70% 19% 6%
1	EC	98	63% 27% 6%
1	ED	98	68% 21% 6%

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Mol	Chain	Length	Quality of chain
1	EE	98	69% 21% 6%
1	EF	98	62% 26% 9%
1	EG	98	67% 22% 6%
1	EH	98	68% 21% 6%
1	EI	98	66% 26% 6%
1	EJ	98	65% 24% 6%
1	EK	98	65% 26% 6%
1	EL	98	61% 31% 6%
1	EM	98	65% 26% 6%
1	EN	98	69% 21% 6%
1	EO	98	66% 23% 6%
1	EP	98	65% 24% 6%
1	EQ	98	64% 26% 6%
1	ER	98	63% 27% 6%
1	ES	98	66% 23% 6%
1	ET	98	69% 21% 6%
1	EU	98	67% 23% 6%
1	EV	98	66% 24% 6%
1	EW	98	64% 22% 9%
1	EX	98	66% 26% 6%
1	EY	98	67% 22% 6%
1	EZ	98	65% 26% 6%
1	Ea	98	65% 24% 6%
1	Eb	98	65% 24% 6%
1	Ec	98	69% 21% 6%

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Mol	Chain	Length	Quality of chain
1	Ed	98	67% 22% • 6%
1	Ee	98	65% 26% • 6%
1	Ef	98	65% 24% • 6%
1	Eg	98	65% 27% • 6%
1	Eh	98	67% 23% • 6%
1	Ei	98	69% 21% • 6%
1	Ej	98	67% 23% • 6%
1	Ek	98	66% 24% • 6%
1	El	98	69% 18% • 9%
1	Em	98	64% 24% 5% 6%
1	En	98	66% 23% • 6%
1	Eo	98	65% 26% • 6%
1	Ep	98	63% 27% • 6%
1	Eq	98	66% 24% • 6%
1	Er	98	69% 21% • 6%
1	Es	98	66% 23% • 6%
1	Et	98	65% 26% • 6%
1	Eu	98	67% 21% 5% 6%
1	Ev	98	63% 28% • 6%
1	Ew	98	65% 26% • 6%
1	Ex	98	69% 21% • 6%
1	F0	98	60% 30% • 6%
1	F1	98	63% 27% • 6%
1	F2	98	60% 30% • 6%
1	F3	98	63% 26% 5% 6%

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Mol	Chain	Length	Quality of chain
1	F4	98	60% 29% 5% 6%
1	F5	98	61% 29% 6%
1	F6	98	61% 29% 6%
1	F7	98	60% 30% 6%
1	F8	98	60% 30% 6%
1	F9	98	63% 26% 5% 6%
1	FA	98	62% 29% 6%
1	FB	98	64% 24% 5% 6%
1	FC	98	64% 24% 5% 6%
1	FD	98	62% 28% 6%
1	FE	98	63% 26% 5% 6%
1	FF	98	52% 32% 7% 9%
1	FG	98	63% 28% 6%
1	FH	98	59% 31% 6%
1	FI	98	58% 30% 6% 6%
1	FJ	98	57% 33% 6%
1	FK	98	62% 27% 5% 6%
1	FL	98	58% 32% 6%
1	FM	98	62% 28% 6%
1	FN	98	61% 29% 6%
1	FO	98	63% 26% 5% 6%
1	FP	98	63% 26% 5% 6%
1	FQ	98	64% 26% 6%
1	FR	98	64% 24% 5% 6%
1	FS	98	63% 27% 6%

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Mol	Chain	Length	Quality of chain
1	FT	98	63% 27% 6%
1	FU	98	56% 33% 5% 6%
1	FV	98	64% 26% 6%
1	FW	98	57% 32% 9%
1	FX	98	62% 29% 6%
1	FY	98	64% 23% 6% 6%
1	FZ	98	61% 29% 6%
1	Fa	98	62% 29% 6%
1	Fb	98	61% 28% 5% 6%
1	Fc	98	62% 28% 6%
1	Fd	98	63% 26% 5% 6%
1	Fe	98	62% 29% 6%
1	Ff	98	63% 26% 5% 6%
1	Fg	98	64% 26% 6%
1	Fh	98	54% 36% 6%
1	Fi	98	63% 26% 5% 6%
1	Fj	98	57% 28% 6% 9%
1	Fk	98	63% 27% 6%
1	Fl	98	60% 29% 5% 6%
1	Fm	98	62% 29% 6%
1	Fn	98	61% 29% 6%
1	Fo	98	61% 30% 6%
1	Fp	98	62% 29% 6%
1	Fq	98	61% 28% 5% 6%
1	Fr	98	62% 28% 6%

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Mol	Chain	Length	Quality of chain
1	Fs	98	63% 27% 6%
1	Ft	98	62% 28% 6%
1	Fu	98	63% 27% 6%
1	Fv	98	63% 27% 6%
1	Fw	98	63% 26% 5% 6%
1	Fx	98	64% 26% 6%
1	G0	98	58% 34% 6%
1	G1	98	65% 26% 6%
1	G2	98	64% 28% 6%
1	G3	98	66% 23% 6%
1	G4	98	65% 26% 6%
1	G5	98	65% 26% 6%
1	G6	98	65% 24% 6%
1	G7	98	65% 26% 6%
1	G8	98	66% 23% 6%
1	G9	98	65% 26% 6%
1	GA	98	65% 24% 6%
1	GB	98	64% 28% 6%
1	GC	98	66% 23% 6%
1	GD	98	65% 26% 6%
1	GE	98	65% 26% 6%
1	GF	98	58% 33% 6%
1	GG	98	65% 24% 6%
1	GH	98	64% 28% 6%
1	GI	98	60% 30% 6%

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Mol	Chain	Length	Quality of chain
1	GJ	98	65% 26% 6%
1	GK	98	66% 24% 6%
1	GL	98	65% 24% 6%
1	GM	98	65% 26% 6%
1	GN	98	66% 23% 6%
1	GO	98	65% 26% 6%
1	GP	98	64% 26% 6%
1	GQ	98	60% 32% 6%
1	GR	98	66% 23% 6%
1	GS	98	65% 26% 6%
1	GT	98	65% 26% 6%
1	GU	98	59% 33% 6%
1	GV	98	65% 24% 6%
1	GW	98	68% 22% 6%
1	GX	98	66% 23% 6%
1	GY	98	65% 26% 6%
1	GZ	98	65% 26% 6%
1	Ga	98	64% 26% 6%
1	Gb	98	65% 26% 6%
1	Gc	98	66% 23% 6%
1	Gd	98	65% 26% 6%
1	Ge	98	65% 26% 6%
1	Gf	98	60% 32% 6%
1	Gg	98	66% 23% 6%
1	Gh	98	65% 26% 6%

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Mol	Chain	Length	Quality of chain
1	Gi	98	65% 26% 6%
1	Gj	98	58% 31% 9%
1	Gk	98	64% 26% 6%
1	Gl	98	62% 27% 9%
1	Gm	98	66% 23% 6%
1	Gn	98	65% 26% 6%
1	Go	98	65% 26% 6%
1	Gp	98	64% 26% 6%
1	Gq	98	65% 26% 6%
1	Gr	98	66% 23% 6%
1	Gs	98	65% 26% 6%
1	Gt	98	65% 24% 6%
1	Gu	98	63% 29% 6%
1	Gv	98	66% 23% 6%
1	Gw	98	65% 26% 6%
1	Gx	98	65% 26% 6%
1	H0	98	57% 31% 6% 6%
1	H1	98	59% 29% 6% 6%
1	H2	98	62% 26% 6% 6%
1	H3	98	60% 28% 6% 6%
1	H4	98	61% 27% 6% 6%
1	H5	98	61% 27% 6% 6%
1	H6	98	62% 26% 6% 6%
1	H7	98	59% 30% 5% 6%
1	H8	98	60% 28% 6% 6%

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Mol	Chain	Length	Quality of chain
1	H9	98	63% 24% 6% 6%
1	HA	98	59% 30% 5% 6%
1	HB	98	61% 28% 5% 6%
1	HC	98	61% 28% 5% 6%
1	HD	98	63% 26% 5% 6%
1	HE	98	62% 27% 5% 6%
1	HF	98	60% 28% 6% 6%
1	HG	98	60% 28% 6% 6%
1	HH	98	60% 29% 5% 6%
1	HI	98	60% 29% 5% 6%
1	HJ	98	63% 26% 5% 6%
1	HK	98	61% 28% 5% 6%
1	HL	98	59% 30% 5% 6%
1	HM	98	59% 29% 6% 6%
1	HN	98	62% 26% 6% 6%
1	HO	98	60% 28% 6% 6%
1	HP	98	61% 28% 5% 6%
1	HQ	98	60% 28% 6% 6%
1	HR	98	63% 26% 5% 6%
1	HS	98	61% 27% 6% 6%
1	HT	98	60% 29% 5% 6%
1	HU	98	57% 31% 6% 6%
1	HV	98	62% 26% 6% 6%
1	HW	98	60% 29% 5% 6%
1	HX	98	63% 26% 5% 6%

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Mol	Chain	Length	Quality of chain
1	HY	98	60% 29% 5% 6%
1	HZ	98	59% 29% 6% 6%
1	Ha	98	60% 29% 5% 6%
1	Hb	98	59% 29% 6% 6%
1	Hc	98	61% 28% 5% 6%
1	Hd	98	63% 24% 6% 6%
1	He	98	60% 28% 6% 6%
1	Hf	98	59% 29% 6% 6%
1	Hg	98	61% 28% 5% 6%
1	Hh	98	62% 27% 5% 6%
1	Hi	98	62% 26% 6% 6%
1	Hj	98	57% 32% 5% 6%
1	Hk	98	60% 28% 6% 6%
1	Hl	98	59% 29% 6% 6%
1	Hm	98	60% 29% 5% 6%
1	Hn	98	62% 27% 5% 6%
1	Ho	98	60% 29% 5% 6%
1	Hp	98	61% 28% 5% 6%
1	Hq	98	58% 31% 5% 6%
1	Hr	98	61% 28% 5% 6%
1	Hs	98	61% 27% 6% 6%
1	Ht	98	62% 26% 6% 6%
1	Hu	98	58% 30% 6% 6%
1	Hv	98	61% 28% 5% 6%
1	Hw	98	61% 28% 5% 6%

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Mol	Chain	Length	Quality of chain
1	Hx	98	60% 28% 6% 6%
1	I0	98	70% 23% 6%
1	I1	98	73% 20% 6%
1	I2	98	72% 20% 6%
1	I3	98	71% 22% 6%
1	I4	98	74% 19% 6%
1	I5	98	73% 20% 6%
1	I6	98	71% 22% 6%
1	I7	98	73% 20% 6%
1	I8	98	71% 22% 6%
1	I9	98	72% 21% 6%
1	IA	98	73% 20% 6%
1	IB	98	70% 22% 6%
1	IC	98	72% 21% 6%
1	ID	98	74% 19% 6%
1	IE	98	73% 20% 6%
1	IF	98	70% 23% 6%
1	IG	98	73% 20% 6%
1	IH	98	72% 20% 6%
1	II	98	71% 22% 6%
1	IJ	98	76% 18% 6%
1	IK	98	72% 21% 6%
1	IL	98	71% 22% 6%
1	IM	98	72% 21% 6%
1	IN	98	71% 22% 6%

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Mol	Chain	Length	Quality of chain
1	IO	98	73% 20% 6%
1	IP	98	73% 20% 6%
1	IQ	98	71% 21% 6%
1	IR	98	71% 22% 6%
1	IS	98	70% 23% 6%
1	IT	98	73% 20% 6%
1	IU	98	70% 23% 6%
1	IV	98	73% 20% 6%
1	IW	98	72% 20% 6%
1	IX	98	71% 22% 6%
1	IY	98	73% 20% 6%
1	IZ	98	71% 22% 6%
1	Ia	98	73% 20% 6%
1	Ib	98	73% 20% 6%
1	Ic	98	71% 22% 6%
1	Id	98	73% 20% 6%
1	Ie	98	73% 20% 6%
1	If	98	71% 21% 6%
1	Ig	98	71% 22% 6%
1	Ih	98	74% 19% 6%
1	Ii	98	73% 20% 6%
1	Ij	98	70% 23% 6%
1	Ik	98	73% 20% 6%
1	Il	98	74% 18% 6%
1	Im	98	72% 21% 6%

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Mol	Chain	Length	Quality of chain
1	In	98	73% 20% 6%
1	Io	98	71% 22% 6%
1	Ip	98	72% 21% 6%
1	Iq	98	73% 20% 6%
1	Ir	98	70% 23% 6%
1	Is	98	74% 19% 6%
1	It	98	73% 20% 6%
1	Iu	98	72% 20% 6%
1	Iv	98	73% 20% 6%
1	Iw	98	73% 20% 6%
1	Ix	98	73% 20% 6%
1	J0	98	69% 23% 6%
1	J1	98	72% 20% 6%
1	J2	98	67% 26% 6%
1	J3	98	64% 24% 5% 6%
1	J4	98	66% 26% 6%
1	J5	98	71% 21% 6%
1	J6	98	66% 24% 6%
1	J7	98	66% 26% 6%
1	J8	98	69% 23% 6%
1	J9	98	70% 22% 6%
1	JA	98	72% 20% 6%
1	JB	98	67% 24% 6%
1	JC	98	70% 20% 6%
1	JD	98	70% 21% 6%

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Mol	Chain	Length	Quality of chain
1	JE	98	71% 21% • 6%
1	JF	98	65% 27% • 6%
1	JG	98	71% 21% • 6%
1	JH	98	68% 24% • 6%
1	JI	98	68% 24% • 6%
1	JJ	98	69% 22% • 6%
1	JK	98	70% 22% • 6%
1	JL	98	68% 24% • 6%
1	JM	98	69% 23% • 6%
1	JN	98	70% 22% • 6%
1	JO	98	70% 22% • 6%
1	JP	98	71% 21% • 6%
1	JQ	98	67% 26% • 6%
1	JR	98	68% 24% • 6%
1	JS	98	68% 23% • 6%
1	JT	98	71% 21% • 6%
1	JU	98	70% 21% • 6%
1	JV	98	71% 21% • 6%
1	JW	98	68% 24% • 6%
1	JX	98	68% 24% • 6%
1	JY	98	68% 23% • 6%
1	JZ	98	70% 22% • 6%
1	Ja	98	67% 26% • 6%
1	Jb	98	70% 21% • 6%
1	Jc	98	70% 22% • 6%

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Mol	Chain	Length	Quality of chain
1	Jd	98	70% 22% • 6%
1	Je	98	72% 20% • 6%
1	Jf	98	67% 26% • 6%
1	Jg	98	65% 28% • 6%
1	Jh	98	69% 22% • 6%
1	Ji	98	71% 21% • 6%
1	Jj	98	66% 27% • 6%
1	Jk	98	71% 21% • 6%
1	Jl	98	67% 26% • 6%
1	Jm	98	70% 22% • 6%
1	Jn	98	69% 23% • 6%
1	Jo	98	70% 22% • 6%
1	Jp	98	65% 28% • 6%
1	Jq	98	66% 26% • 6%
1	Jr	98	70% 22% • 6%
1	Js	98	71% 21% • 6%
1	Jt	98	73% 19% • 6%
1	Ju	98	65% 28% • 6%
1	Jv	98	54% 37% • 6%
1	Jw	98	65% 26% • 6%
1	Jx	98	70% 22% • 6%
1	K0	98	67% 23% • 6%
1	K1	98	67% 23% • 6%
1	K2	98	66% 23% • 6%
1	K3	98	68% 22% • 6%

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Mol	Chain	Length	Quality of chain
1	K4	98	67% 23% • 6%
1	K5	98	67% 23% • 6%
1	K6	98	66% 24% • 6%
1	K7	98	68% 22% • 6%
1	K8	98	66% 23% • 6%
1	K9	98	67% 23% • 6%
1	KA	98	66% 24% • 6%
1	KB	98	67% 23% • 6%
1	KC	98	68% 22% • 6%
1	KD	98	68% 22% • 6%
1	KE	98	67% 23% • 6%
1	KF	98	65% 26% • 6%
1	KG	98	66% 24% • 6%
1	KH	98	67% 23% • 6%
1	KI	98	68% 22% • 6%
1	KJ	98	68% 22% • 6%
1	KK	98	68% 22% • 6%
1	KL	98	68% 22% • 6%
1	KM	98	67% 23% • 6%
1	KN	98	69% 21% • 6%
1	KO	98	68% 22% • 6%
1	KP	98	66% 24% • 6%
1	KQ	98	67% 23% • 6%
1	KR	98	67% 23% • 6%
1	KS	98	68% 22% • 6%

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Mol	Chain	Length	Quality of chain
1	KT	98	64% 27% • 6%
1	KU	98	67% 23% • 6%
1	KV	98	67% 22% • 6%
1	KW	98	68% 23% • 6%
1	KX	98	66% 23% • 6%
1	KY	98	68% 22% • 6%
1	KZ	98	68% 23% • 6%
1	Ka	98	68% 23% • 6%
1	Kb	98	67% 23% • 6%
1	Kc	98	68% 22% • 6%
1	Kd	98	67% 22% • 6%
1	Ke	98	67% 23% • 6%
1	Kf	98	67% 23% • 6%
1	Kg	98	67% 22% • 6%
1	Kh	98	67% 22% • 6%
1	Ki	98	66% 24% • 6%
1	Kj	98	68% 23% • 6%
1	Kk	98	67% 23% • 6%
1	Kl	98	67% 23% • 6%
1	Km	98	67% 22% • 6%
1	Kn	98	67% 22% • 6%
1	Ko	98	66% 24% • 6%
1	Kp	98	65% 24% • 6%
1	Kq	98	68% 22% • 6%
1	Kr	98	69% 22% • 6%

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Mol	Chain	Length	Quality of chain
1	Ks	98	67% 22% • 6%
1	Kt	98	67% 23% • 6%
1	Ku	98	66% 23% • 6%
1	Kv	98	68% 22% • 6%
1	Kw	98	68% 22% • 6%
1	Kx	98	67% 23% • 6%
1	L0	98	72% 20% • 6%
1	L1	98	74% 18% • 6%
1	L2	98	72% 20% • 6%
1	L3	98	70% 23% 6%
1	L4	98	74% 18% • 6%
1	L5	98	66% 27% • 6%
1	L6	98	72% 21% 6%
1	L7	98	71% 20% • 6%
1	L8	98	68% 24% • 6%
1	L9	98	74% 19% 6%
1	LA	98	72% 21% 6%
1	LB	98	67% 26% • 6%
1	LC	98	71% 22% 6%
1	LD	98	72% 20% • 6%
1	LE	98	72% 20% • 6%
1	LF	98	72% 20% • 6%
1	LG	98	76% 17% • 6%
1	LH	98	72% 20% • 6%
1	LI	98	68% 23% • 6%

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Mol	Chain	Length	Quality of chain
1	LJ	98	74% 19% 6%
1	LK	98	73% 19% 6%
1	LL	98	71% 22% 6%
1	LM	98	71% 20% 6%
1	LN	98	69% 23% 6%
1	LO	98	74% 18% 6%
1	LP	98	72% 21% 6%
1	LQ	98	67% 26% 6%
1	LR	98	73% 19% 6%
1	LS	98	70% 22% 6%
1	LT	98	72% 20% 6%
1	LU	98	72% 20% 6%
1	LV	98	76% 18% 6%
1	LW	98	72% 20% 6%
1	LX	98	72% 21% 6%
1	LY	98	73% 19% 6%
1	LZ	98	73% 19% 6%
1	La	98	70% 22% 6%
1	Lb	98	73% 20% 6%
1	Lc	98	70% 22% 6%
1	Ld	98	74% 18% 6%
1	Le	98	72% 21% 6%
1	Lf	98	67% 26% 6%
1	Lg	98	71% 21% 6%
1	Lh	98	72% 20% 6%

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Mol	Chain	Length	Quality of chain
1	Li	98	71% 21% • 6%
1	Lj	98	73% 19% • 6%
1	Lk	98	76% 17% • 6%
1	Ll	98	72% 20% • 6%
1	Lm	98	56% 35% • 6%
1	Ln	98	73% 19% • 6%
1	Lo	98	73% 19% • 6%
1	Lp	98	72% 20% • 6%
1	Lq	98	72% 19% • 6%
1	Lr	98	71% 22% 6%
1	Ls	98	74% 18% • 6%
1	Lt	98	73% 20% 6%
1	Lu	98	67% 26% • 6%
1	Lv	98	70% 22% • 6%
1	Lw	98	71% 21% • 6%
1	Lx	98	72% 20% • 6%
1	M0	98	77% 16% • 6%
1	M1	98	77% 16% • 6%
1	M2	98	77% 16% • 6%
1	M3	98	77% 16% • 6%
1	M4	98	78% 15% • 6%
1	M5	98	77% 16% • 6%
1	M6	98	76% 17% • 6%
1	M7	98	78% 15% • 6%
1	M8	98	77% 16% • 6%

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Mol	Chain	Length	Quality of chain
1	M9	98	76% 17% • 6%
1	MA	98	77% 16% • 6%
1	MB	98	74% 18% • 6%
1	MC	98	76% 17% • 6%
1	MD	98	80% 13% • 6%
1	ME	98	78% 15% • 6%
1	MF	98	72% 20% • 6%
1	MG	98	78% 15% • 6%
1	MH	98	77% 16% • 6%
1	MI	98	78% 15% • 6%
1	MJ	98	77% 16% • 6%
1	MK	98	77% 16% • 6%
1	ML	98	76% 17% • 6%
1	MM	98	78% 15% • 6%
1	MN	98	78% 15% • 6%
1	MO	98	77% 16% • 6%
1	MP	98	78% 15% • 6%
1	MQ	98	77% 16% • 6%
1	MR	98	76% 17% • 6%
1	MS	98	79% 14% • 6%
1	MT	98	78% 15% • 6%
1	MU	98	78% 15% • 6%
1	MV	98	76% 17% • 6%
1	MW	98	78% 15% • 6%
1	MX	98	77% 16% • 6%

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Mol	Chain	Length	Quality of chain
1	MY	98	79% 14% • 6%
1	MZ	98	77% 16% • 6%
1	Ma	98	78% 15% • 6%
1	Mb	98	79% 14% • 6%
1	Mc	98	77% 16% • 6%
1	Md	98	78% 15% • 6%
1	Me	98	78% 15% • 6%
1	Mf	98	79% 14% • 6%
1	Mg	98	78% 15% • 6%
1	Mh	98	77% 16% • 6%
1	Mi	98	76% 17% • 6%
1	Mj	98	78% 15% • 6%
1	Mk	98	77% 16% • 6%
1	Ml	98	77% 16% • 6%
1	Mm	98	71% 18% • 6%
1	Mn	98	79% 14% • 6%
1	Mo	98	78% 15% • 6%
1	Mp	98	77% 16% • 6%
1	Mq	98	78% 15% • 6%
1	Mr	98	78% 15% • 6%
1	Ms	98	77% 16% • 6%
1	Mt	98	78% 15% • 6%
1	Mu	98	78% 15% • 6%
1	Mv	98	72% 20% • 6%
1	Mw	98	77% 16% • 6%

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Mol	Chain	Length	Quality of chain
1	Mx	98	76% 17% • 6%
1	N0	98	76% 16% •• 6%
1	N1	98	76% 16% •• 6%
1	N2	98	77% 15% • 6%
1	N3	98	74% 17% • 6%
1	N4	98	70% 20% • 6%
1	N5	98	74% 17% • 6%
1	N6	98	76% 16% •• 6%
1	N7	98	74% 17% • 6%
1	N8	98	74% 17% •• 6%
1	N9	98	73% 18% • 6%
1	NA	98	74% 17% • 6%
1	NB	98	73% 18% •• 6%
1	NC	98	79% 13% • 6%
1	ND	98	76% 16% • 6%
1	NE	98	76% 16% • 6%
1	NF	98	76% 16% •• 6%
1	NG	98	73% 18% • 6%
1	NH	98	77% 15% • 6%
1	NI	98	77% 15% • 6%
1	NJ	98	73% 17% •• 6%
1	NK	98	76% 16% • 6%
1	NL	98	74% 16% • 6%
1	NM	98	72% 19% • 6%
1	NN	98	76% 16% •• 6%

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Mol	Chain	Length	Quality of chain
1	NO	98	74% 17% • 6%
1	NP	98	74% 17% • 6%
1	NQ	98	73% 18% •• 6%
1	NR	98	76% 16% • 6%
1	NS	98	76% 16% • 6%
1	NT	98	74% 17% • 6%
1	NU	98	76% 16% • 6%
1	NV	98	76% 16% • 6%
1	NW	98	77% 15% • 6%
1	NX	98	73% 18% •• 6%
1	NY	98	73% 17% • 6%
1	NZ	98	78% 14% •• 6%
1	Na	98	77% 15% •• 6%
1	Nb	98	74% 17% • 6%
1	Nc	98	76% 16% •• 6%
1	Nd	98	74% 17% • 6%
1	Ne	98	76% 16% •• 6%
1	Nf	98	74% 17% • 6%
1	Ng	98	76% 16% • 6%
1	Nh	98	74% 17% • 6%
1	Ni	98	76% 16% •• 6%
1	Nj	98	76% 16% •• 6%
1	Nk	98	74% 17% •• 6%
1	Nl	98	76% 16% • 6%
1	Nm	98	69% 22% • 6%

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Mol	Chain	Length	Quality of chain
1	Nn	98	70% 20% 6%
1	No	98	76% 16% 6%
1	Np	98	76% 16% 6%
1	Nq	98	73% 18% 6%
1	Nr	98	78% 14% 6%
1	Ns	98	74% 17% 6%
1	Nt	98	74% 17% 6%
1	Nu	98	74% 17% 6%
1	Nv	98	73% 18% 6%
1	Nw	98	76% 16% 6%
1	Nx	98	76% 16% 6%
1	O0	98	72% 20% 6%
1	O1	98	73% 19% 6%
1	O2	98	73% 19% 6%
1	O3	98	72% 19% 6%
1	O4	98	72% 20% 6%
1	O5	98	74% 18% 6%
1	O6	98	73% 19% 6%
1	O7	98	73% 18% 6%
1	O8	98	71% 21% 6%
1	O9	98	72% 20% 6%
1	OA	98	73% 19% 6%
1	OB	98	74% 18% 6%
1	OC	98	73% 18% 6%
1	OD	98	73% 19% 6%

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Mol	Chain	Length	Quality of chain
1	OE	98	73% 19% • 6%
1	OF	98	71% 21% • 6%
1	OG	98	73% 19% • 6%
1	OH	98	73% 19% • 6%
1	OI	98	71% 21% • 6%
1	OJ	98	72% 20% • 6%
1	OK	98	73% 19% • 6%
1	OL	98	72% 20% • 6%
1	OM	98	73% 18% • 6%
1	ON	98	71% 21% • 6%
1	OO	98	72% 20% • 6%
1	OP	98	73% 19% • 6%
1	OQ	98	74% 18% • 6%
1	OR	98	74% 18% • 6%
1	OS	98	73% 19% • 6%
1	OT	98	73% 19% • 6%
1	OU	98	71% 21% • 6%
1	OV	98	73% 19% • 6%
1	OW	98	72% 20% • 6%
1	OX	98	72% 20% • 6%
1	OY	98	73% 19% • 6%
1	OZ	98	74% 18% • 6%
1	Oa	98	72% 20% • 6%
1	Ob	98	73% 18% • 6%
1	Oc	98	71% 21% • 6%

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Mol	Chain	Length	Quality of chain
1	Od	98	73% 19% • 6%
1	Oe	98	73% 19% • 6%
1	Of	98	74% 18% • 6%
1	Og	98	73% 19% • 6%
1	Oh	98	73% 19% • 6%
1	Oi	98	74% 18% • 6%
1	Oj	98	71% 21% • 6%
1	Ok	98	73% 19% • 6%
1	Ol	98	73% 19% • 6%
1	Om	98	72% 20% • 6%
1	On	98	73% 19% • 6%
1	Oo	98	74% 18% • 6%
1	Op	98	71% 21% • 6%
1	Oq	98	73% 18% • 6%
1	Or	98	71% 21% • 6%
1	Os	98	72% 20% • 6%
1	Ot	98	73% 19% • 6%
1	Ou	98	74% 18% • 6%
1	Ov	98	68% 23% • 6%
1	Ow	98	73% 19% • 6%
1	Ox	98	74% 18% • 6%
2	P0	83	60% 31% 5% • •
2	P1	83	57% 36% 5% •
2	P2	83	66% 27% 5% •
2	P3	83	64% 29% 5% •

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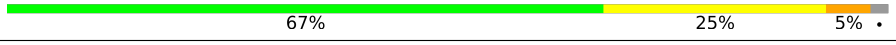
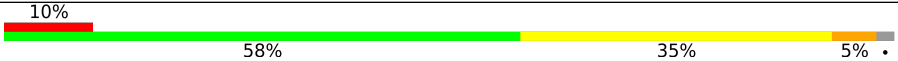
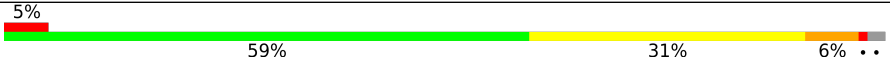
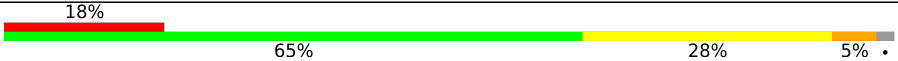
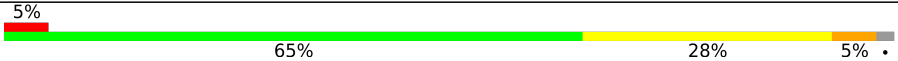
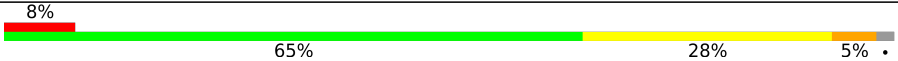
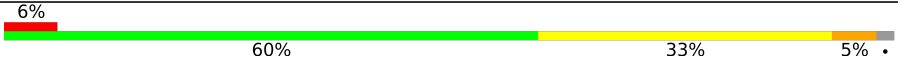
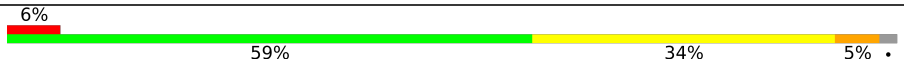
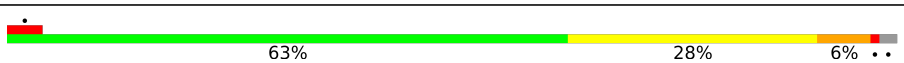
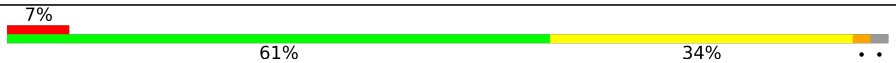
Mol	Chain	Length	Quality of chain
2	P4	83	
2	P5	83	
2	P6	83	
2	P7	83	
2	P8	83	
2	P9	83	
2	PA	83	
2	PB	83	
2	PC	83	
2	PD	83	
2	PE	83	
2	PF	83	
2	PG	83	
2	PH	83	
2	PI	83	
2	PJ	83	
2	PK	83	
2	PL	83	
2	PM	83	
2	PN	83	
2	PO	83	
2	PP	83	
2	PQ	83	
2	PR	83	
2	PS	83	

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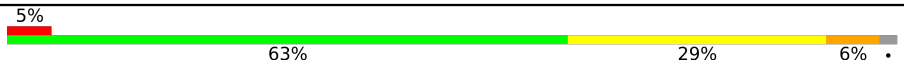
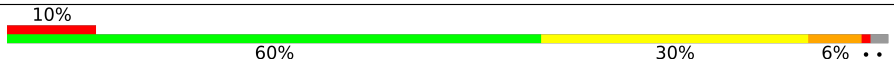
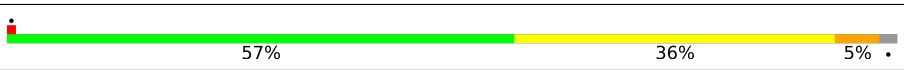
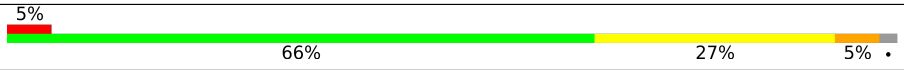
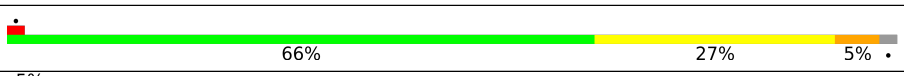
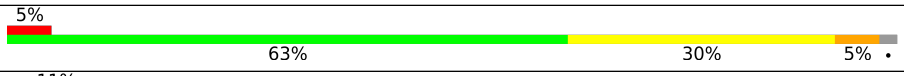
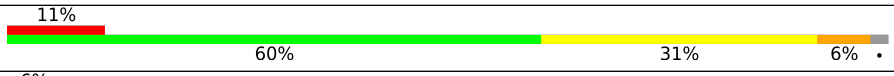
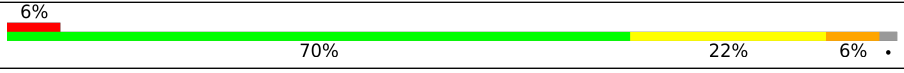
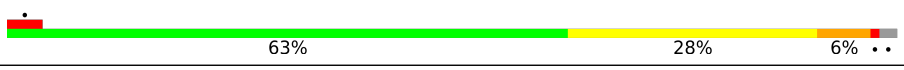
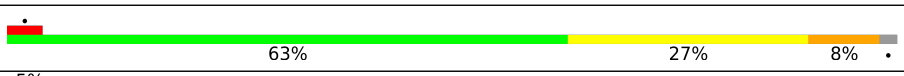
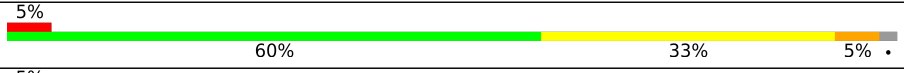
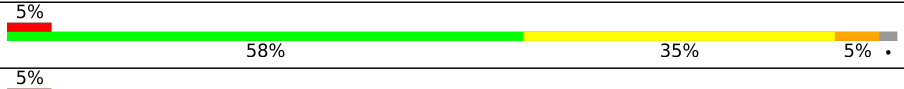
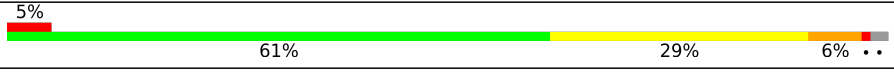
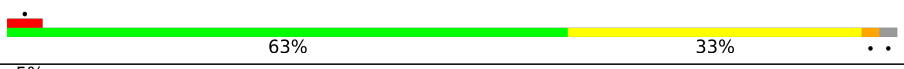
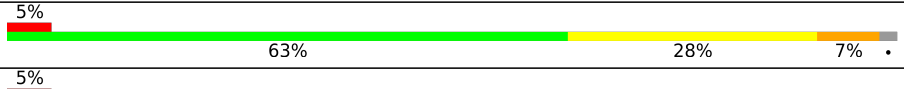
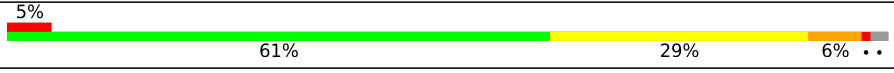
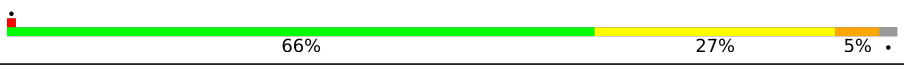
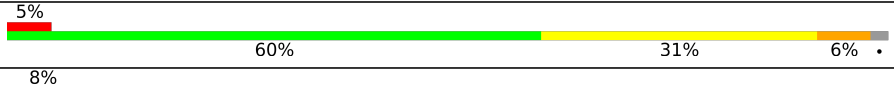
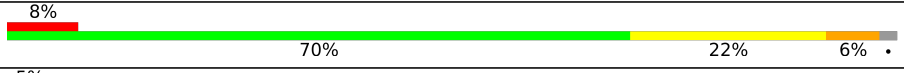
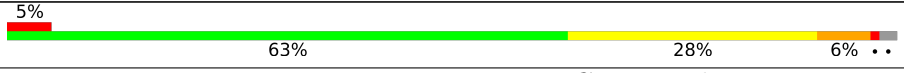
Mol	Chain	Length	Quality of chain
2	PT	83	
2	PU	83	
2	PV	83	
2	PW	83	
2	PX	83	
2	PY	83	
2	PZ	83	
2	Pa	83	
2	Pb	83	
2	Pc	83	
2	Pd	83	
2	Pe	83	
2	Pf	83	
2	Pg	83	
2	Ph	83	
2	Pi	83	
2	Pj	83	
2	Pk	83	
2	Pl	83	
2	Pm	83	
2	Pn	83	
2	Po	83	
2	Pp	83	
2	Pq	83	
2	Pr	83	

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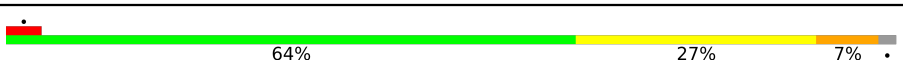
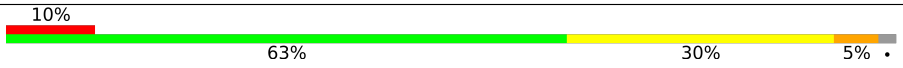
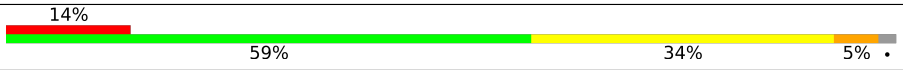
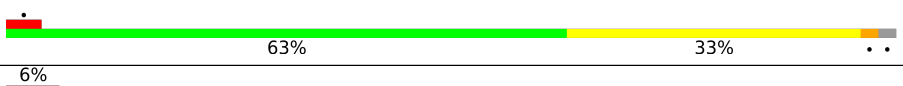
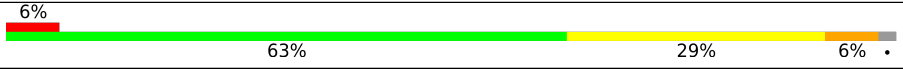
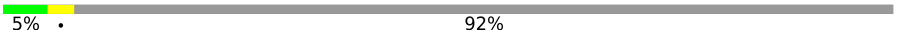
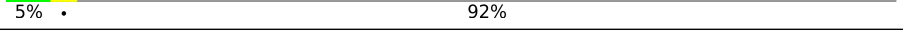
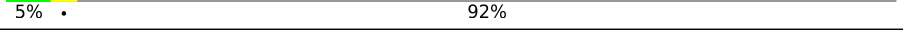
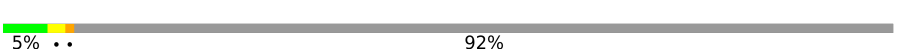
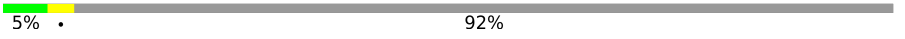
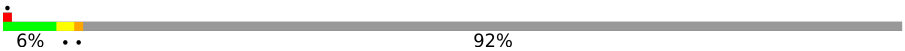
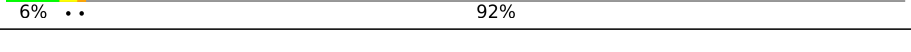
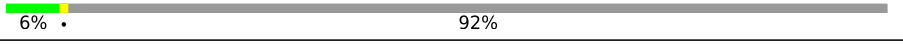
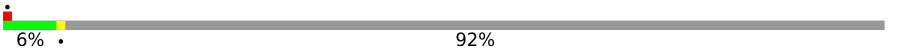
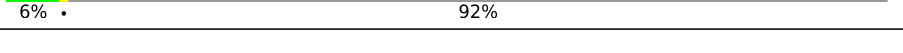
Mol	Chain	Length	Quality of chain
2	Ps	83	
2	Pt	83	
2	Pu	83	
2	Pv	83	
2	Pw	83	
2	Px	83	
3	X0	869	
3	X1	869	
3	X2	869	
3	X3	869	
3	X4	869	
3	X5	869	
3	X6	869	
3	X7	869	
3	X8	869	
3	X9	869	
3	XA	869	
3	XB	869	
3	XC	869	
3	XD	869	
3	XE	869	
3	XF	869	
3	XG	869	
3	XH	869	
3	XI	869	

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Mol	Chain	Length	Quality of chain
3	XJ	869	6% 92%
3	XK	869	5% 92%
3	XL	869	5% 92%
3	XM	869	5% 92%
3	XN	869	5% 92%
3	XO	869	6% 92%
3	XP	869	6% 92%
3	XQ	869	6% 92%
3	XR	869	6% 92%
3	XS	869	6% 92%
3	XT	869	6% 92%
3	XU	869	5% 92%
3	XV	869	5% 92%
3	XW	869	6% 92%
3	XX	869	92%
3	XY	869	5% 92%
3	XZ	869	5% 92%
3	Xa	869	5% 92%
3	Xb	869	6% 92%
3	Xc	869	5% 92%
3	Xd	869	6% 92%
3	Xe	869	6% 92%
3	Xf	869	6% 92%
3	Xg	869	6% 92%
3	Xh	869	6% 92%

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Mol	Chain	Length	Quality of chain
3	Xi	869	
3	Xj	869	
3	Xk	869	
3	Xl	869	
3	Xm	869	
3	Xn	869	
3	Xo	869	
3	Xp	869	
3	Xq	869	
3	Xr	869	
3	Xs	869	
3	Xt	869	
3	Xu	869	
3	Xv	869	
3	Xw	869	
3	Xx	869	
3	Y0	869	
3	Y1	869	
3	Y2	869	
3	Y3	869	
3	Y4	869	
3	Y5	869	
3	Y6	869	
3	Y7	869	
3	Y8	869	

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Mol	Chain	Length	Quality of chain
3	Y9	869	11% 85%
3	YA	869	11% 85%
3	YB	869	11% 85%
3	YC	869	11% 85%
3	YD	869	11% 85%
3	YE	869	10% 85%
3	YF	869	10% 5% 85%
3	YG	869	11% 85%
3	YH	869	11% 85%
3	YI	869	10% 85%
3	YJ	869	11% 85%
3	YK	869	11% 85%
3	YL	869	10% 85%
3	YM	869	10% 85%
3	YN	869	11% 85%
3	YO	869	11% 85%
3	YP	869	11% 85%
3	YQ	869	10% 85%
3	YR	869	11% 85%
3	YS	869	11% 85%
3	YT	869	10% 85%
3	YU	869	10% 5% 85%
3	YV	869	11% 85%
3	YW	869	10% 85%
3	YX	869	11% 85%

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Mol	Chain	Length	Quality of chain
3	YY	869	11% 85%
3	YZ	869	11% 85%
3	Ya	869	11% 85%
3	Yb	869	10% 5% 85%
3	Yc	869	11% 85%
3	Yd	869	11% 85%
3	Ye	869	11% 85%
3	Yf	869	11% 85%
3	Yg	869	11% 85%
3	Yh	869	11% 85%
3	Yi	869	11% 85%
3	Yj	869	10% 5% 85%
3	Yk	869	11% 85%
3	Yl	869	11% 85%
3	Ym	869	10% 5% 85%
3	Yn	869	11% 85%
3	Yo	869	11% 85%
3	Yp	869	11% 85%
3	Yq	869	10% 85%
3	Yr	869	11% 85%
3	Ys	869	11% 85%
3	Yt	869	11% 85%
3	Yu	869	10% 85%
3	Yv	869	11% 85%
3	Yw	869	11% 85%

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Mol	Chain	Length	Quality of chain
3	Yx	869	11% · 85%

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 716166 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Major carboxysome shell protein CsoS1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	AA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	DC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ED	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	HE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ID	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	MB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ME	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ND	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OA	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OB	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OE	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	B3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	G1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	K3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O1	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O2	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	O5	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	A9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	B9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	C9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	E7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	F9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	G9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	H9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	I8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	I9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	K9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	M9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	N0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	N9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O0	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O8	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	O9	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	CQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ER	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ES	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ET	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	GT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	LP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OP	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OQ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OT	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	FH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	II	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	JJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OG	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	FM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	JO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ML	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	ON	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	OO	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ae	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Af	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ag	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ah	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ai	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Be	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bi	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ce	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ch	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ci	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	De	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Di	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ee	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ef	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Eg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Eh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ei	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fe	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ff	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fi	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ge	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gi	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	He	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hi	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ie	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	If	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ig	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ih	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ii	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Je	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ji	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ke	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ki	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Le	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Li	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Me	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mg	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mi	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ne	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nf	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ng	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ni	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Oe	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Of	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Og	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Oh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Oi	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BX	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	BY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	CW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DW	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	DX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EW	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	EX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FW	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	FX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	GZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	LW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OV	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OW	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OX	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OZ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	AU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Aa	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ab	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ac	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ad	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	BU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ba	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	CU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ca	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Da	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ea	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Eb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ec	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ed	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	FU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fa	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	GU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ga	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	HU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ha	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	IU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ia	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ib	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ic	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Id	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ja	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Jb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	KU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ka	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	La	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ld	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ma	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Md	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Na	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nb	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Nc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nd	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Oa	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ob	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Oc	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Od	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	At	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Au	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Av	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Aw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ax	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bt	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ct	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Cx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dt	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Du	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	Dv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Et	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Eu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ev	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ew	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ex	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ft	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gt	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ht	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Hu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	It	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Iu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Iv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Iw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ix	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jt	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ju	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kt	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ku	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lt	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Lw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mt	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nt	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nu	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nx	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ot	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ou	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ov	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ow	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ox	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ak	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Al	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Am	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	An	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ao	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bl	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bo	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ck	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cl	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Co	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Do	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ek	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	En	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Eo	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fo	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Gk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gl	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	Gm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Go	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hl	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ho	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ik	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Il	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Im	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	In	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Io	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jl	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jo	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kl	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Kn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ko	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ll	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ln	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lo	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ml	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mo	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nk	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nl	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	No	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ok	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ol	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	On	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Oo	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Aj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ap	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Aq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ar	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	As	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Br	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Bs	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Cs	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ds	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ej	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ep	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Eq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Er	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Es	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fj	89	Total	C	N	O	S	0	0
			635	395	119	118	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Fp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fs	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gj	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	Gp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Gs	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Hs	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ij	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ip	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Iq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ir	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Is	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Jr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Js	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Kr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ks	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ls	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mp	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Mr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Ms	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Np	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nr	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Ns	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Oj	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Op	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Oq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Or	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Os	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DD	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JC	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D4	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D7	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	J6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DS	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dw	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jv	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dn	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DR	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LM	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	LN	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Fh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dj	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	Fq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	EL	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dh	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DY	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Db	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dq	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	L3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Em	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DJ	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	E3	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DH	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	D6	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Df	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	KI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	LI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	NI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	OI	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	FF	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	JU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	El	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	Fl	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Km	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Nm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Om	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	DU	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Dl	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	EF	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	DF	89	Total	C	N	O	S	0	0
			635	395	119	118	3		
1	MK	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	JF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Jm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	Lm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		
1	MF	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Mm	92	Total	C	N	O	S	0	0
			656	408	123	122	3		

- Molecule 2 is a protein called Carboxysome shell vertex protein CsoS4A.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	PA	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PB	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PC	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PD	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PE	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P1	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P2	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P3	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P4	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P5	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P6	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P7	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P8	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P9	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	P0	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PP	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PQ	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PR	81	Total	C	N	O	S	0	0
			608	386	105	112	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	PS	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PT	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PG	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PH	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PI	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PJ	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PK	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PL	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PM	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PN	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PO	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PF	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pe	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pf	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pg	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Ph	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pi	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PV	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PW	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PX	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PY	81	Total	C	N	O	S	0	0
			608	386	105	112	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	PZ	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pa	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pb	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pc	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pd	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	PU	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pt	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pu	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pv	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pw	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Px	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pk	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pl	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pm	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pn	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Po	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pp	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pq	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pr	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Ps	81	Total	C	N	O	S	0	0
			608	386	105	112	5		
2	Pj	81	Total	C	N	O	S	0	0
			608	386	105	112	5		

- Molecule 3 is a protein called Carboxysome assembly protein CsoS2B.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	XA	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XB	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XC	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XE	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	YA	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YB	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YC	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YD	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YE	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	X1	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	X2	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Y1	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Y2	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Y4	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Y5	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	X6	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	X9	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	X0	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Y6	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Y7	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Y8	134	Total	C	N	O	S	0	0
			980	591	191	193	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Y9	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Y0	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	XP	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XQ	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XR	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XT	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	YP	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YQ	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YR	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YS	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YT	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	XG	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XH	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XK	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	YG	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YH	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YI	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YJ	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YK	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	XL	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XO	72	Total	C	N	O	S	0	0
			513	314	86	110	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	XF	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	YL	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YM	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YN	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YO	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YF	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Xe	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xf	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xg	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xi	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Ye	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yf	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yg	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yh	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yi	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	XV	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XW	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XZ	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	YV	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YW	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YX	134	Total	C	N	O	S	0	0
			980	591	191	193	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	YY	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YZ	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Xd	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XU	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Ya	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yb	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yc	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yd	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	YU	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Xt	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xu	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xv	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xx	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Yt	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yu	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yv	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yw	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yx	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Xk	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xl	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xo	72	Total	C	N	O	S	0	0
			513	314	86	110	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Yk	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yl	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Ym	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yn	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yo	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Xp	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xs	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xj	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Yp	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yq	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yr	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Ys	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Yj	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	XD	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	X4	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	X7	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	X8	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XS	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xh	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XY	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xb	72	Total	C	N	O	S	0	0
			513	314	86	110	3		

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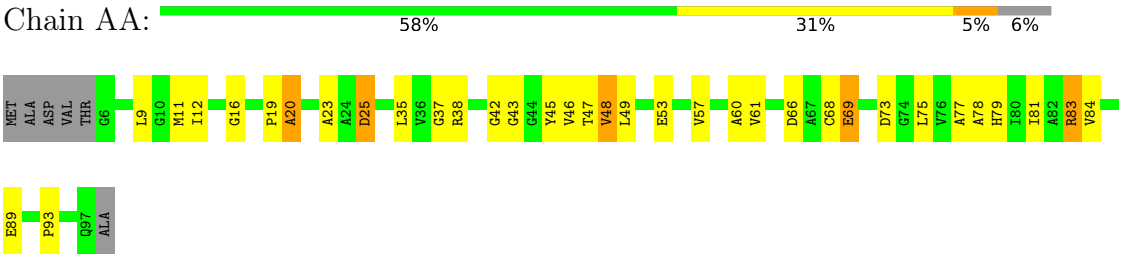
Mol	Chain	Residues	Atoms					AltConf	Trace
3	Xc	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xw	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xn	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xq	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xr	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	X5	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XX	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XJ	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XM	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Y3	134	Total	C	N	O	S	0	0
			980	591	191	193	5		
3	Xa	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XN	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	X3	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	XI	72	Total	C	N	O	S	0	0
			513	314	86	110	3		
3	Xm	72	Total	C	N	O	S	0	0
			513	314	86	110	3		

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

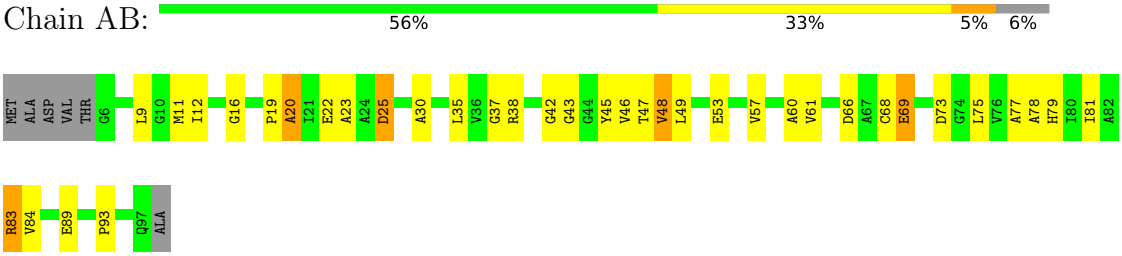
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AA:



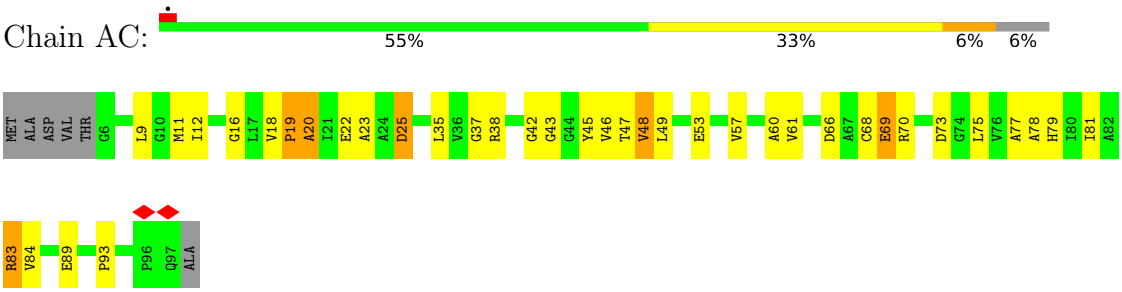
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AB:



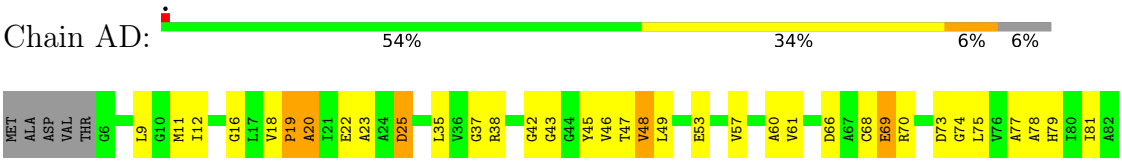
• Molecule 1: Major carboxysome shell protein CsoS1A

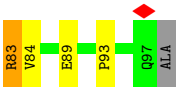
Chain AC:



• Molecule 1: Major carboxysome shell protein CsoS1A

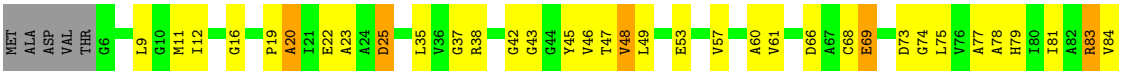
Chain AD:

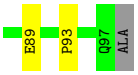




• Molecule 1: Major carboxysome shell protein CsoS1A

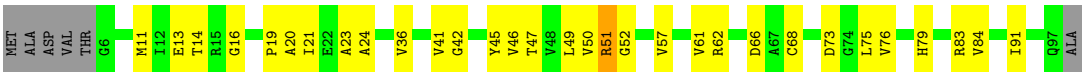
Chain AE:





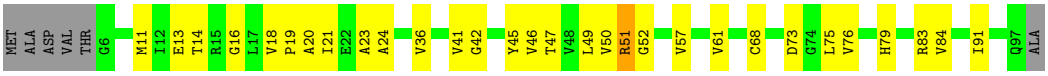
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BA:



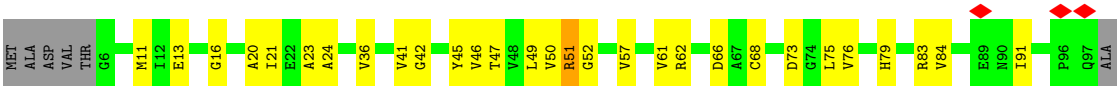
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BB:



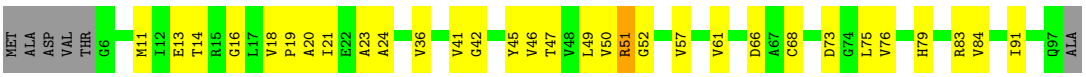
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BC:



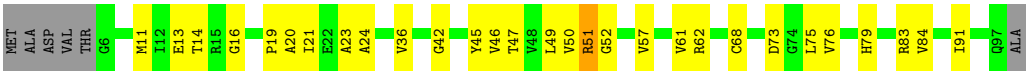
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BD:



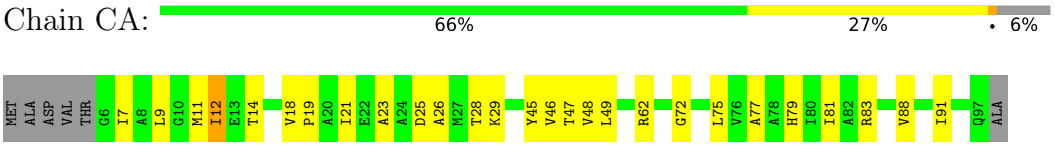
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BE:



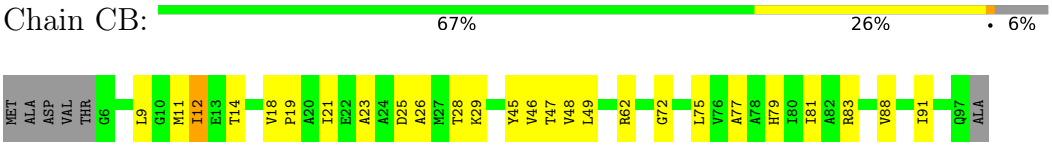
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CA:



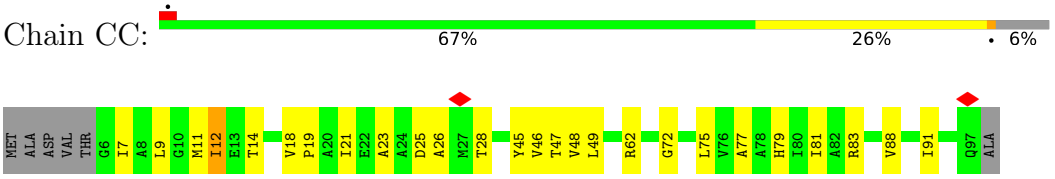
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CB:



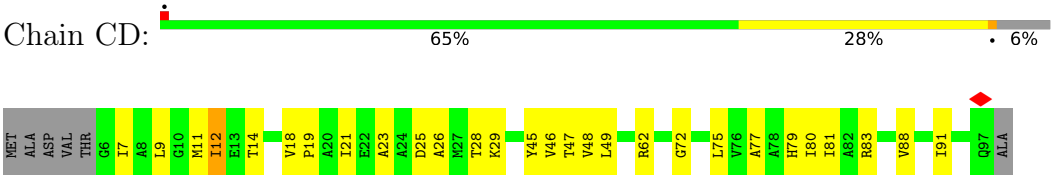
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CC:



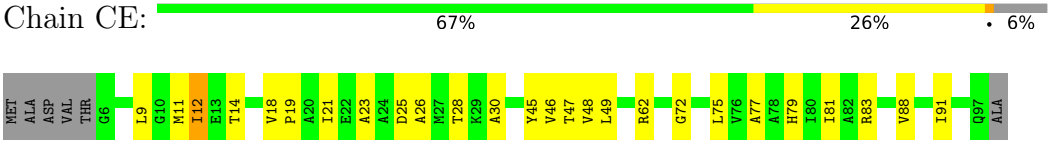
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CD:



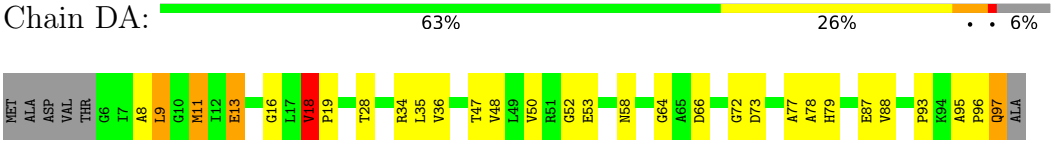
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CE:



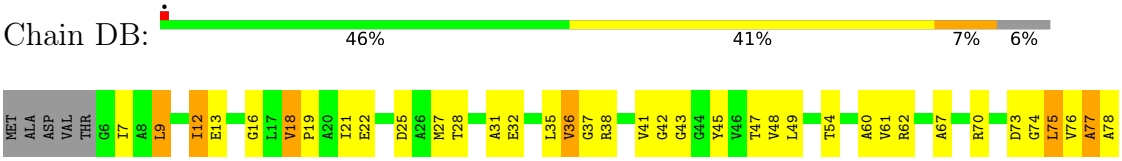
• Molecule 1: Major carboxysome shell protein CsoS1A

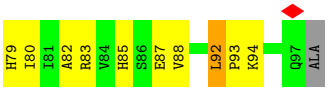
Chain DA:



• Molecule 1: Major carboxysome shell protein CsoS1A

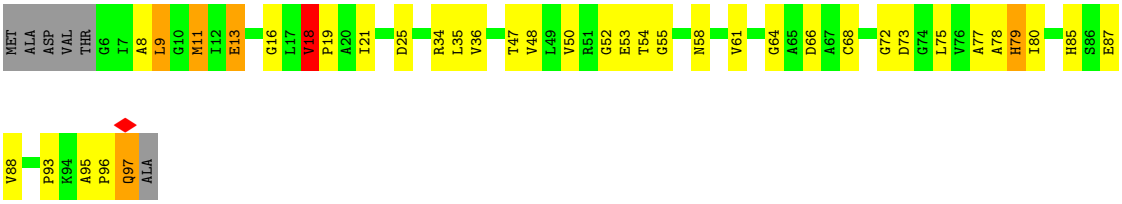
Chain DB:





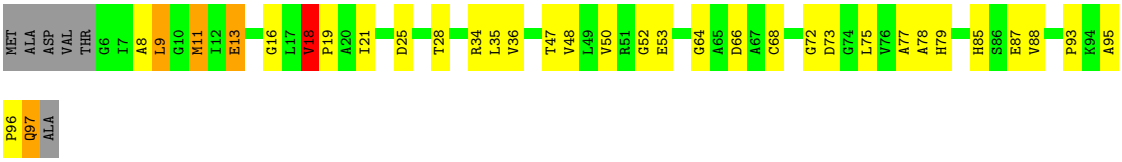
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DC:



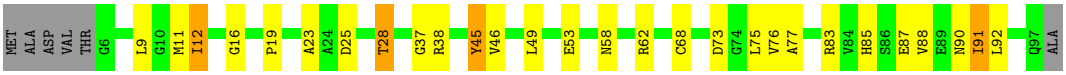
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DE:



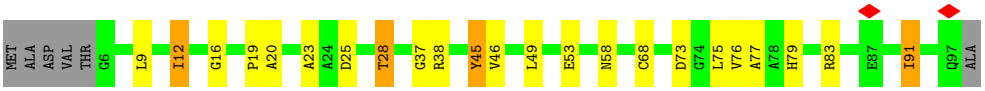
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EA:



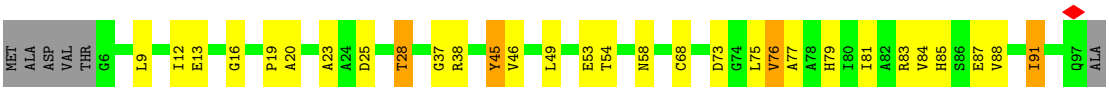
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EB:



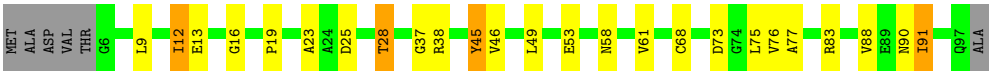
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EC:



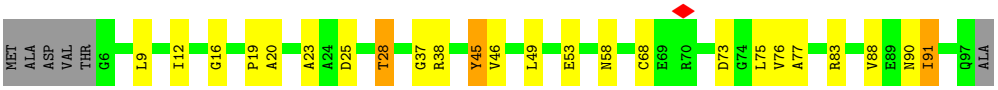
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain ED:



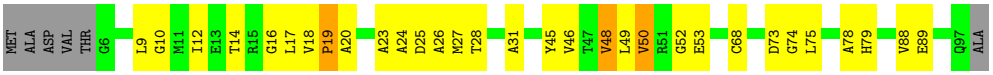
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EE:



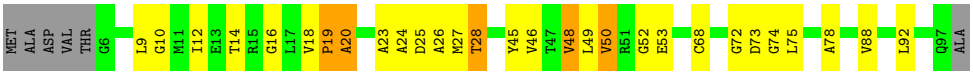
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FA:



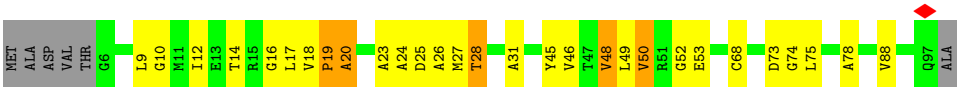
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FB:



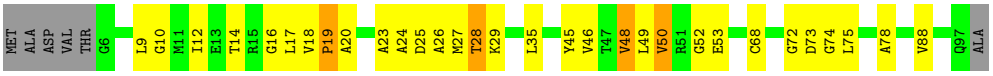
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FC:



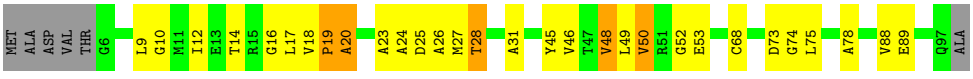
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FD:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FE:

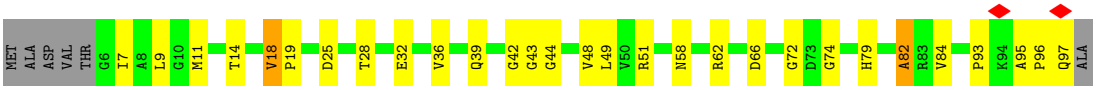


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GA:

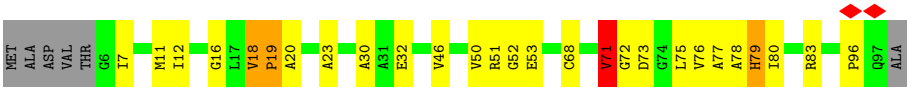
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GB:



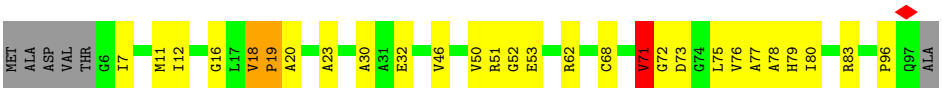
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GC:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GD:

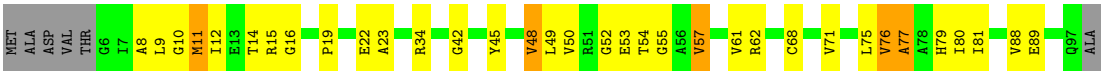


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GE:

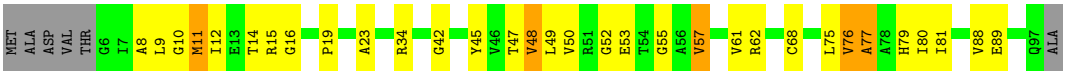
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HA:



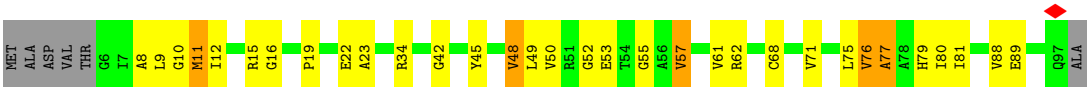
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HB:



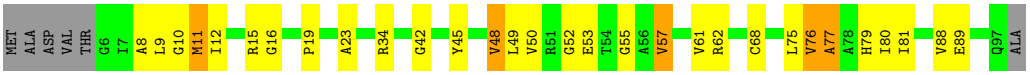
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HC:



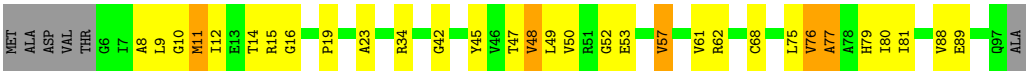
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HD:



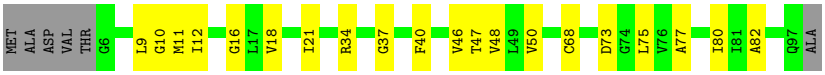
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HE:



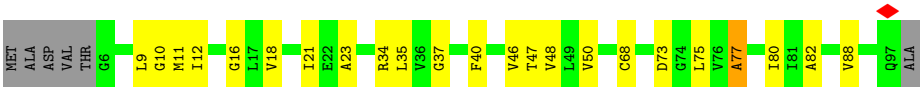
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IA:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IB:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IC:

• Molecule 1: Major carboxysome shell protein CsoS1A

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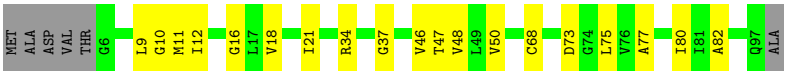
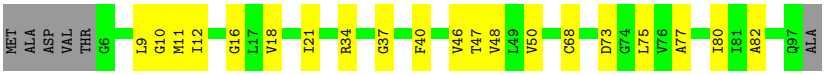


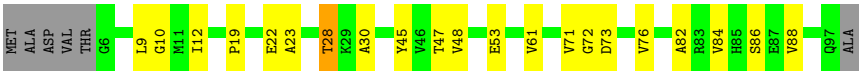
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IE:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JA:

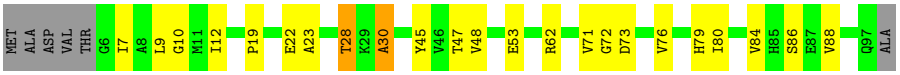


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JB:

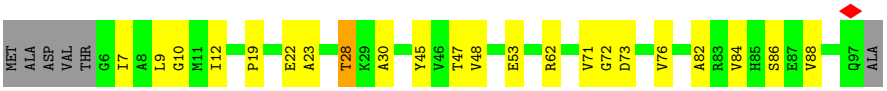
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JD:



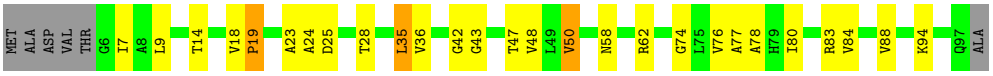
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JE:



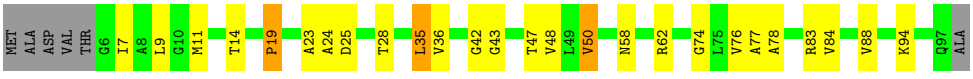
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KA:



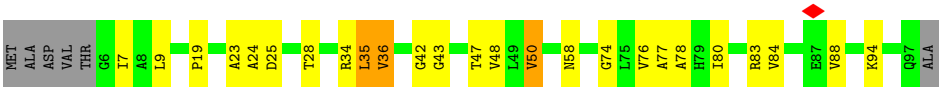
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KB:



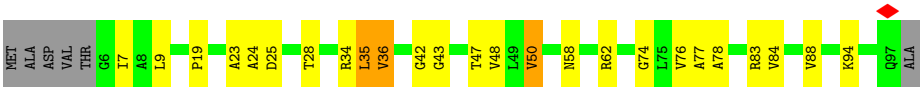
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KC:



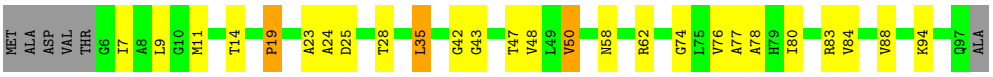
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KD:



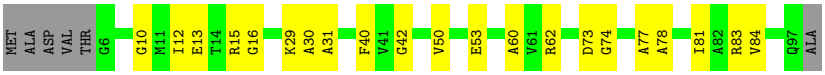
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KE:



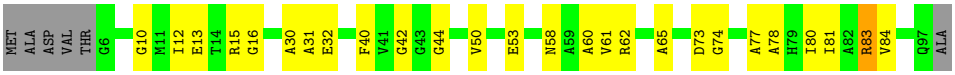
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LA:



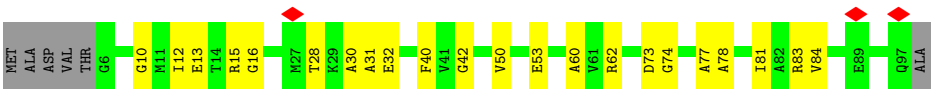
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LB:



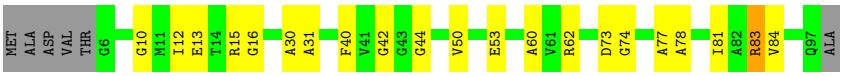
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LC:



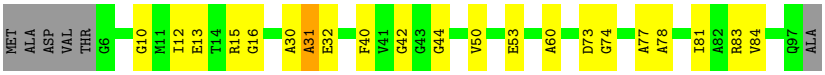
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LD:



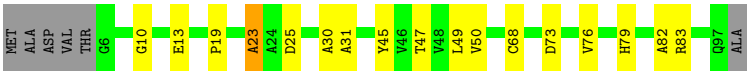
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LE:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MA:

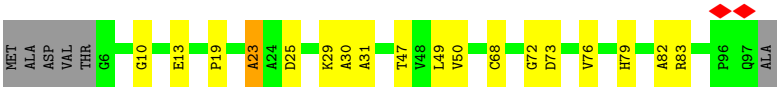


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MB:

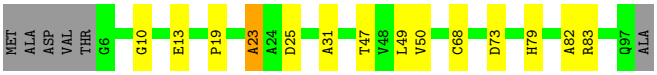
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MC:



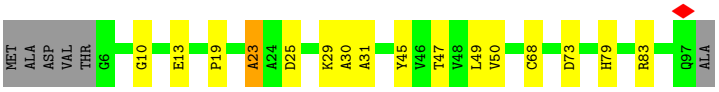
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MD:



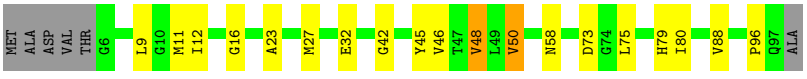
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain ME:



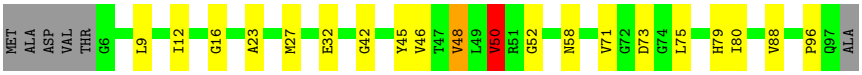
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NA:

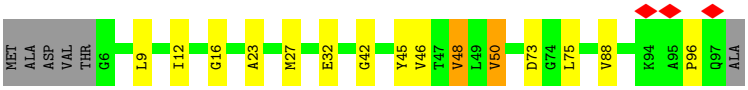


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NB:



• Molecule 1: Major carboxysome shell protein CsoS1A



• Molecule 1: Major carboxysome shell protein CsoS1A

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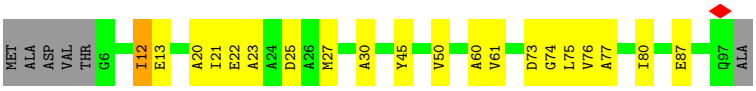
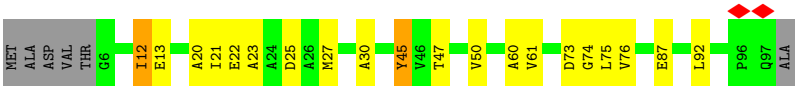
• Molecule 1: Major carboxysome shell protein CsoS1A



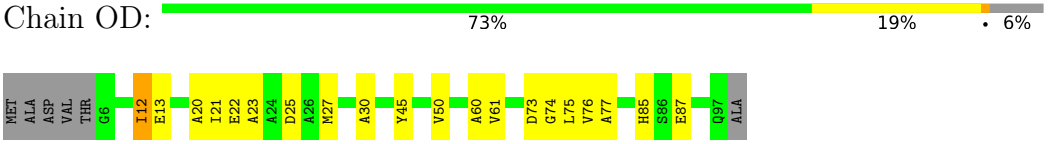
• Molecule 1: Major carboxysome shell protein CsoS1A

• Molecule 1: Major carboxysome shell protein CsoS1A



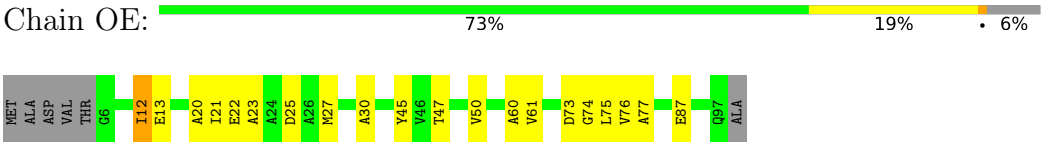
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OD:



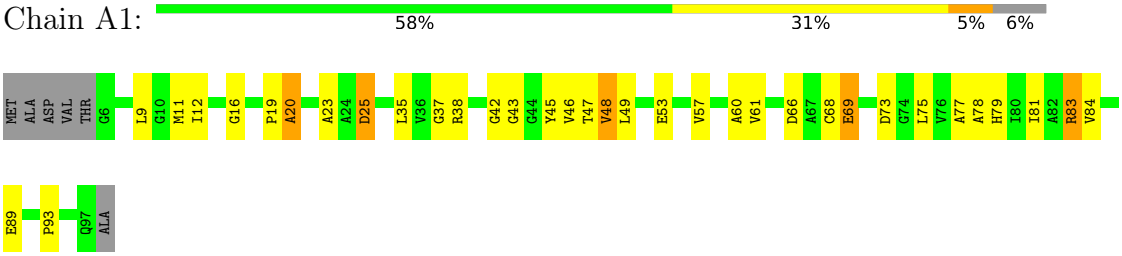
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OE:



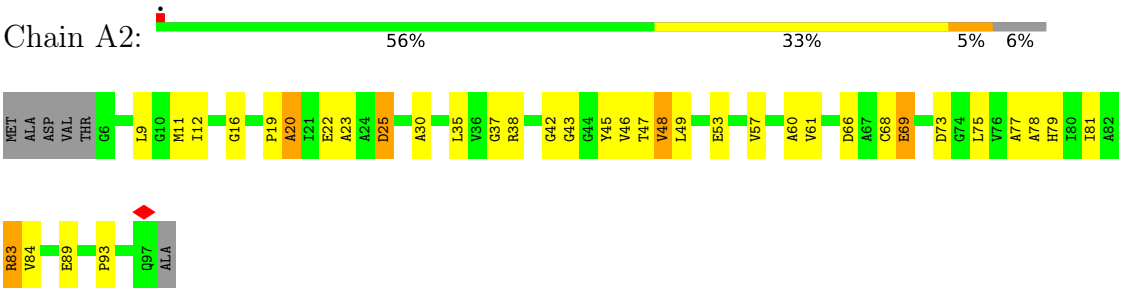
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain A1:



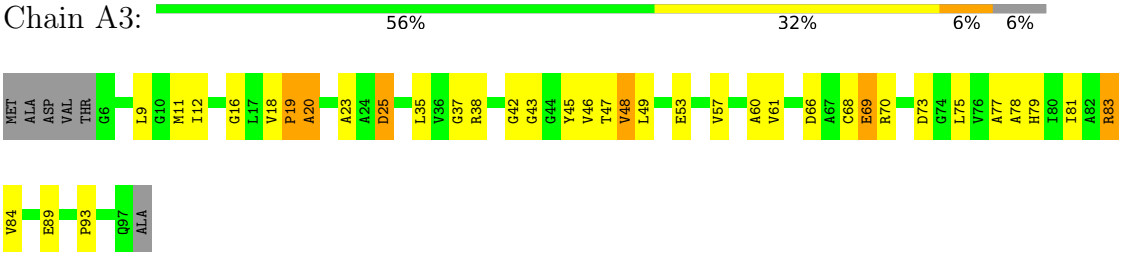
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain A2:



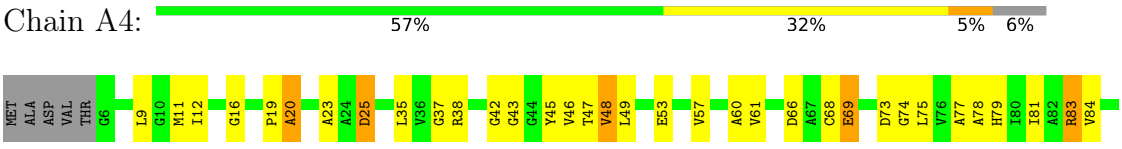
• Molecule 1: Major carboxysome shell protein CsoS1A

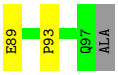
Chain A3:



• Molecule 1: Major carboxysome shell protein CsoS1A

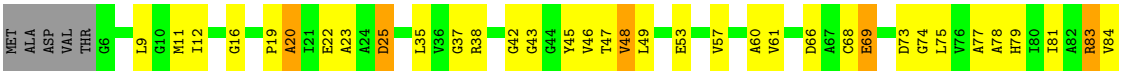
Chain A4:

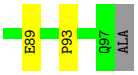




• Molecule 1: Major carboxysome shell protein CsoS1A

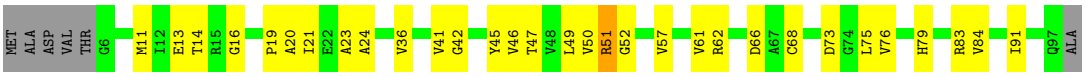
Chain A5:





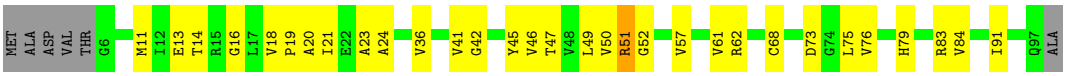
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B1:



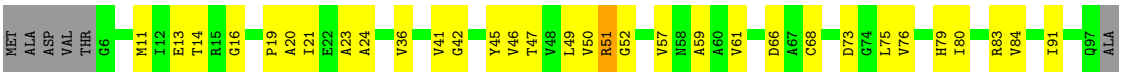
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B2:



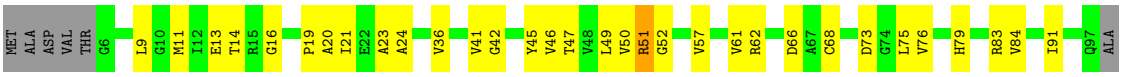
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B3:



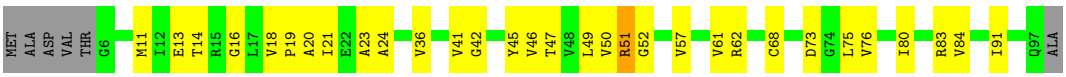
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B4:



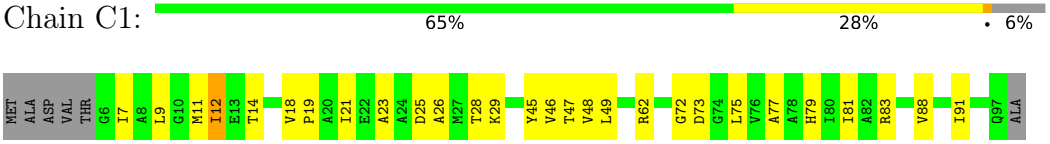
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B5:



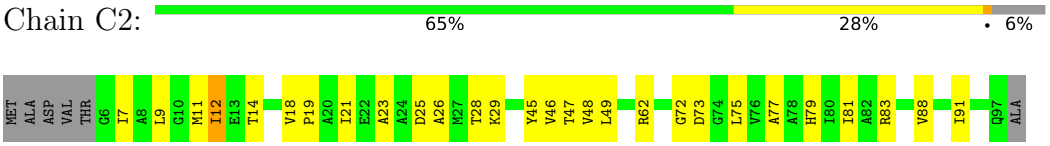
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C1:



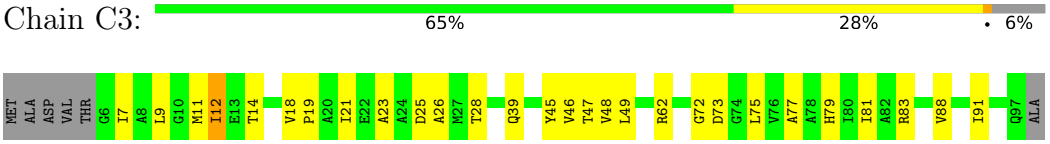
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C2:



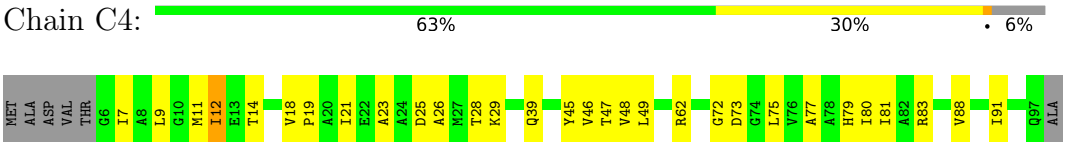
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C3:



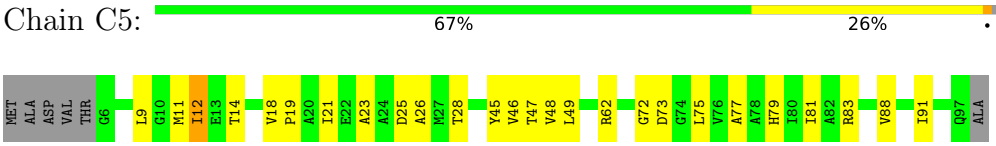
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C4:



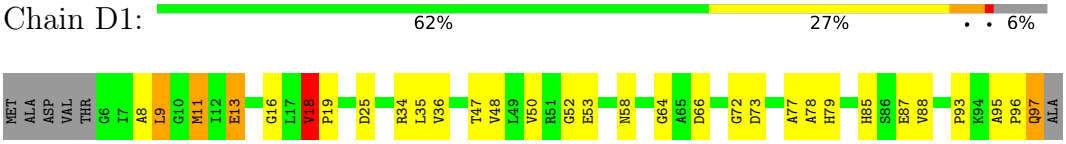
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C5:



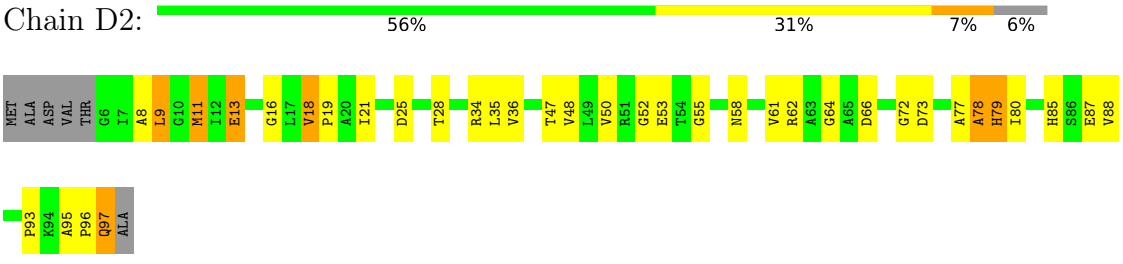
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D1:



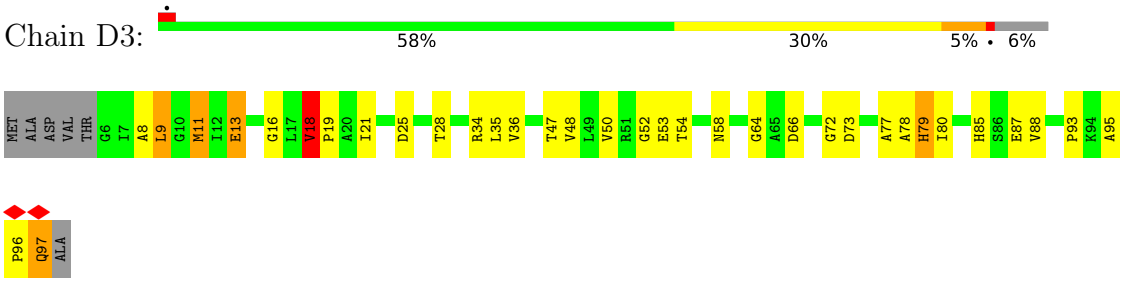
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D2:



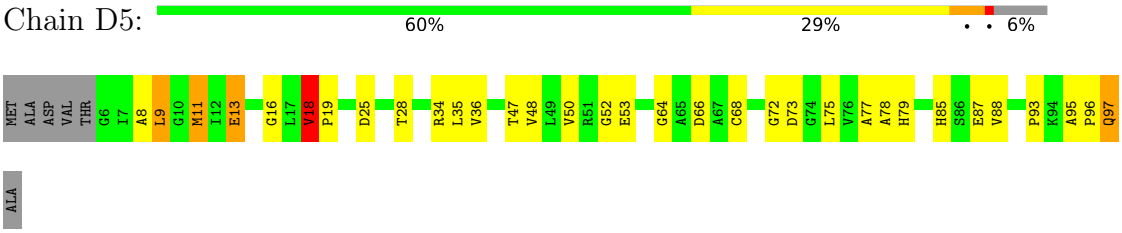
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D3:



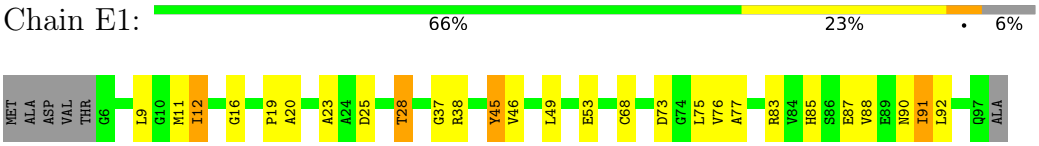
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D5:



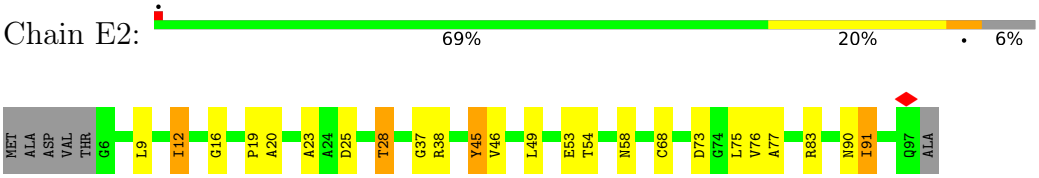
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E1:



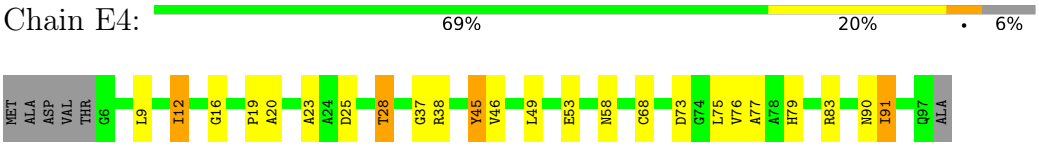
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E2:



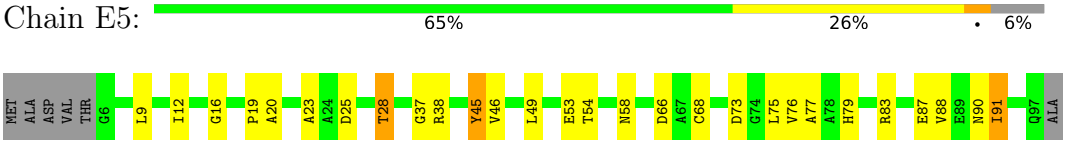
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E4:



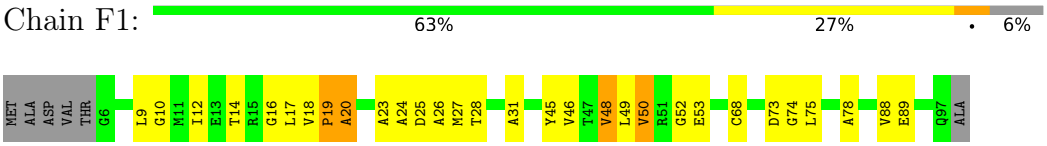
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E5:



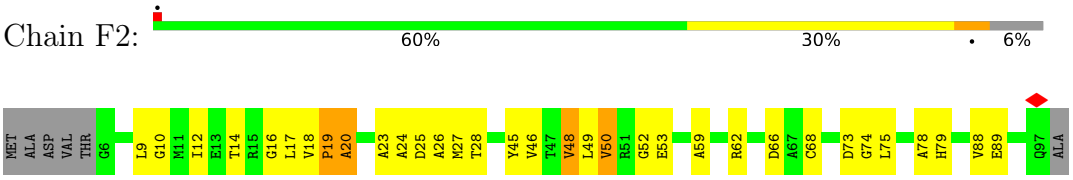
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain F1:



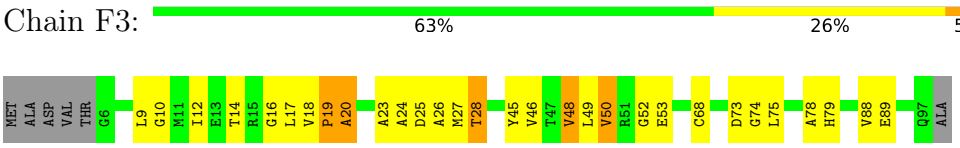
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain F2:



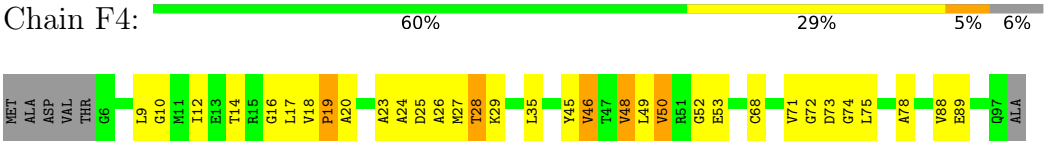
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain F3:



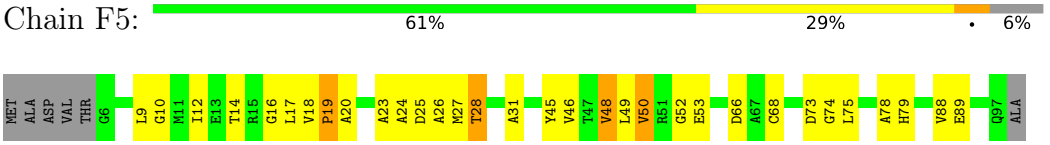
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain F4:



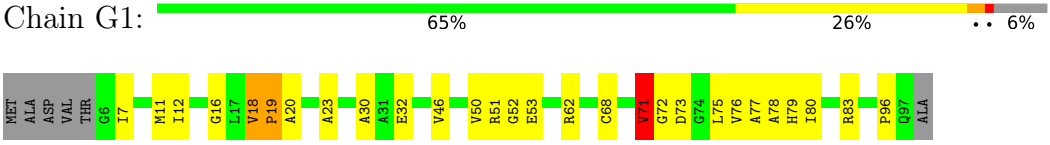
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain F5:



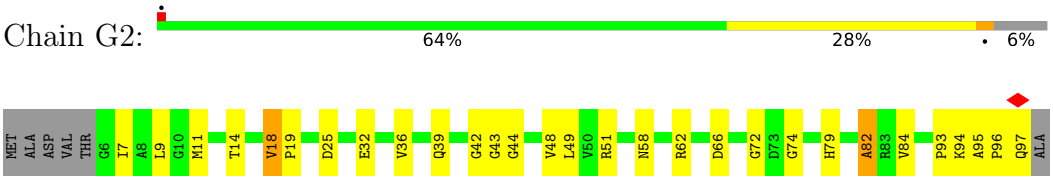
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain G1:



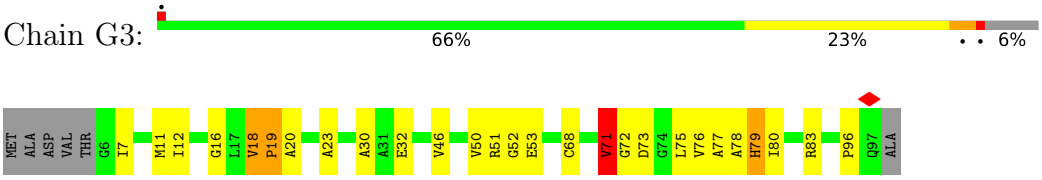
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain G2:



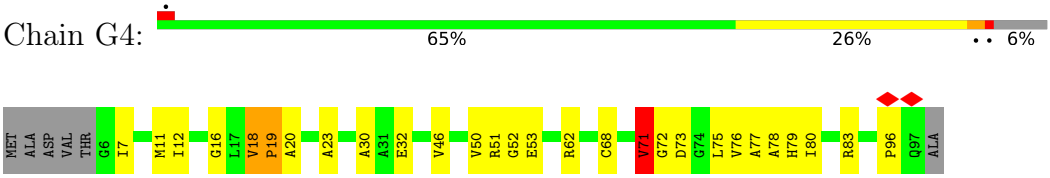
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain G3:



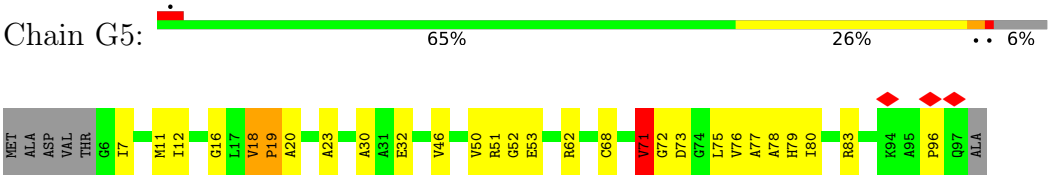
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain G4:



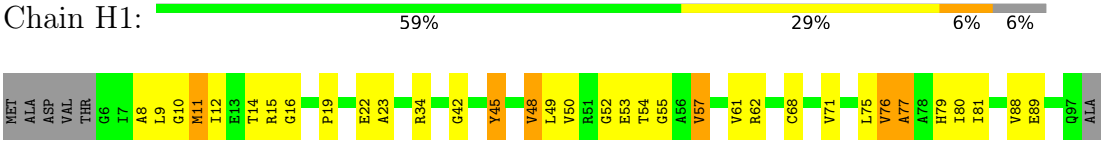
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain G5:



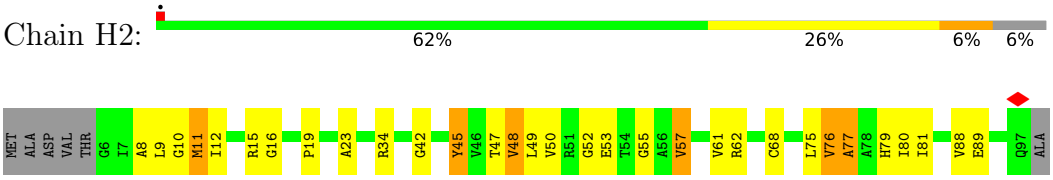
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain H1:



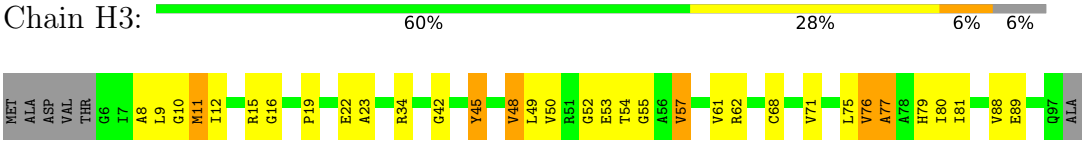
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain H2:



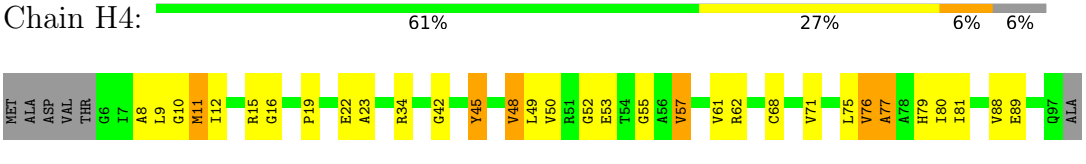
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain H3:



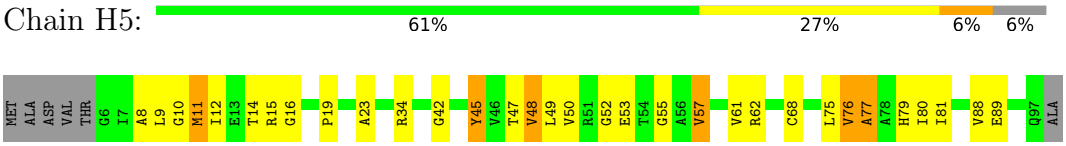
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain H4:



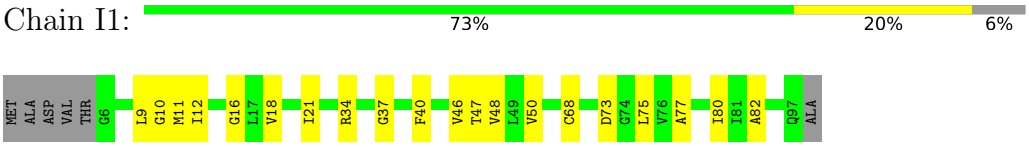
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain H5:



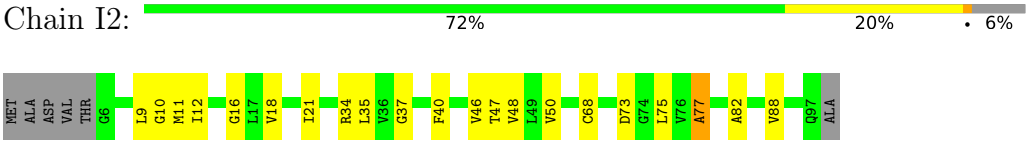
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain I1:



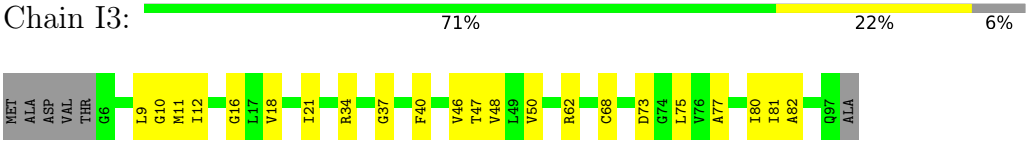
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain I2:



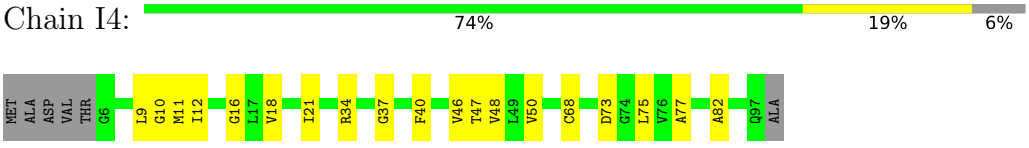
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain I3:



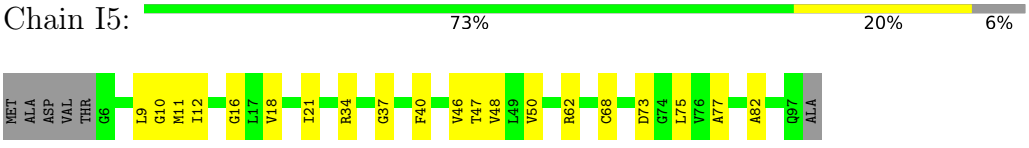
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain I4:



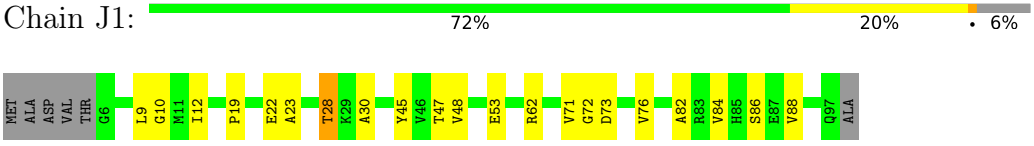
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain I5:



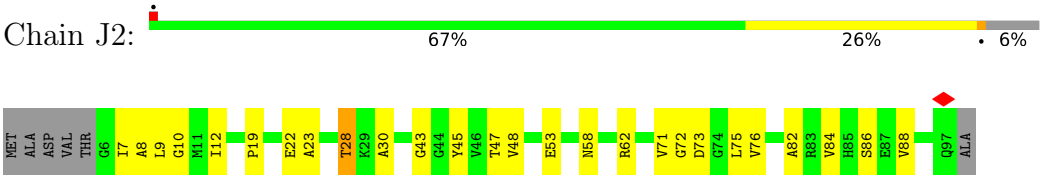
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain J1:



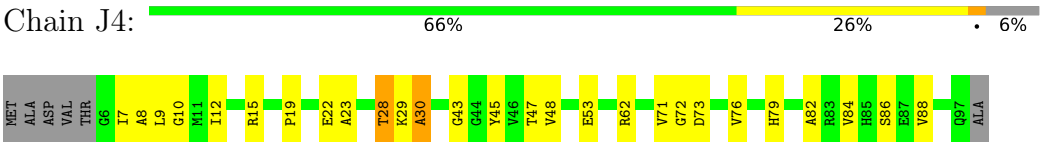
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain J2:



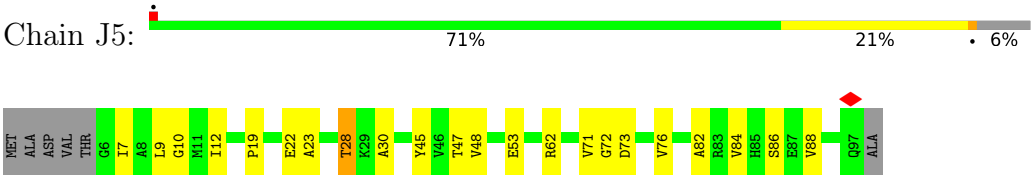
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain J4:



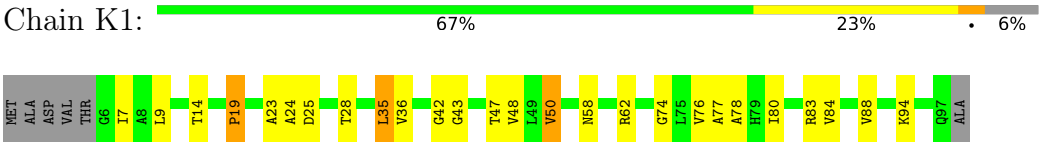
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain J5:



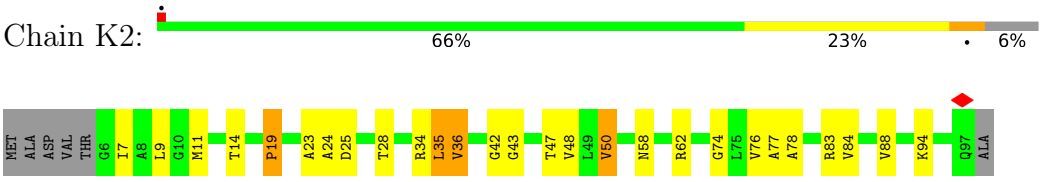
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain K1:



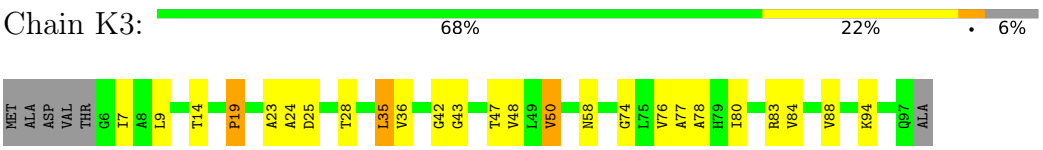
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain K2:



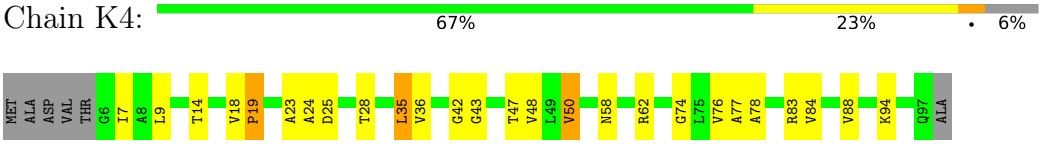
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain K3:



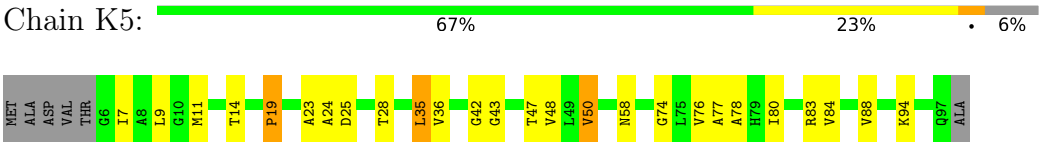
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain K4:



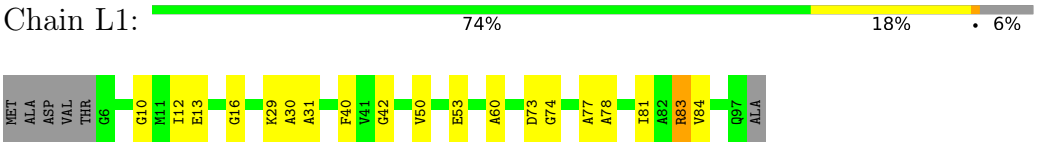
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain K5:



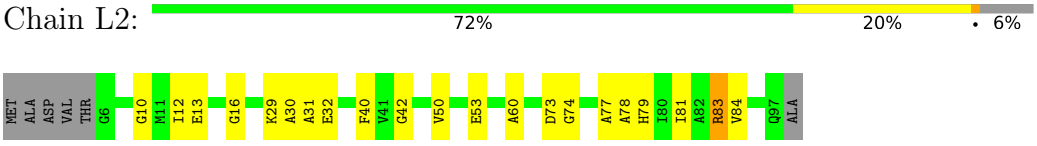
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain L1:



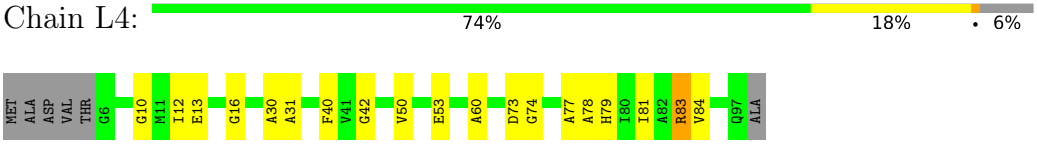
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain L2:



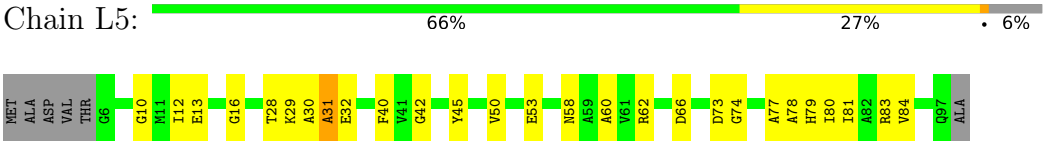
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain L4:



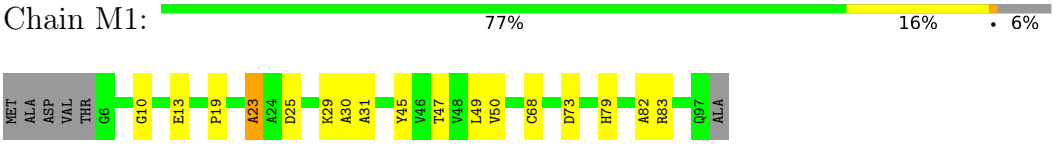
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain L5:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain M1:



• Molecule 1: Major carboxysome shell protein CsoS1A

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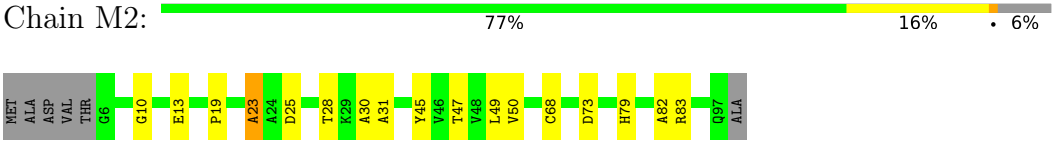
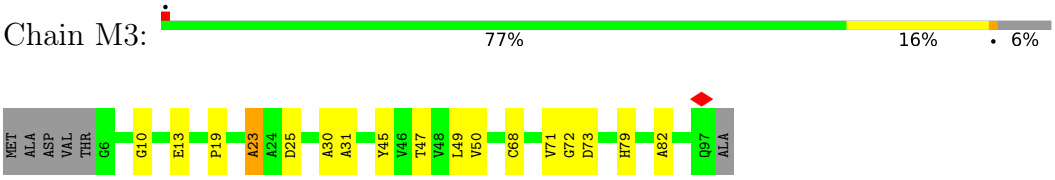


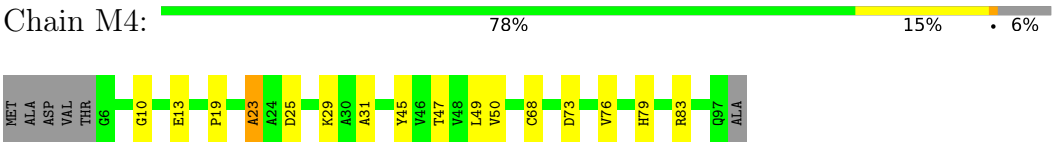
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain M3:



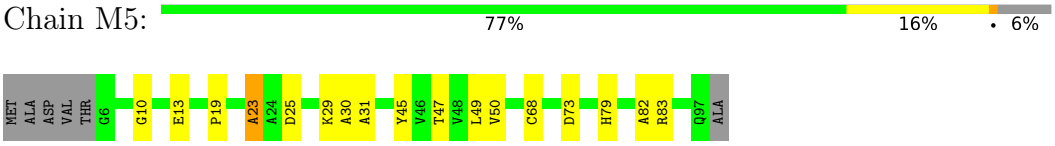
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain M4:



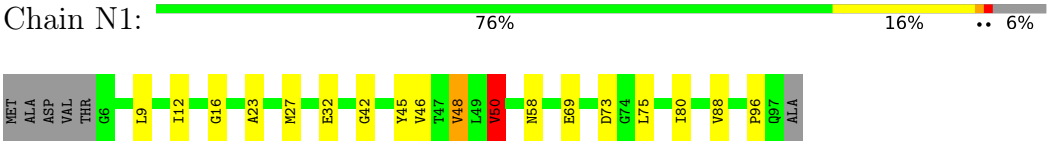
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain M5:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain N1:



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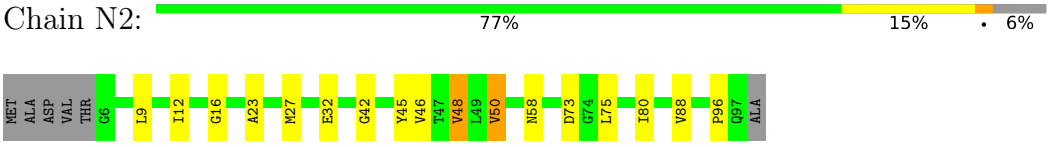
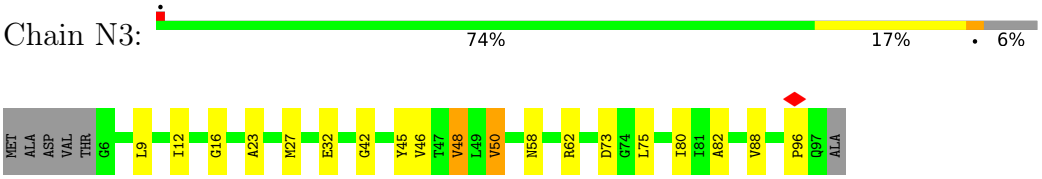


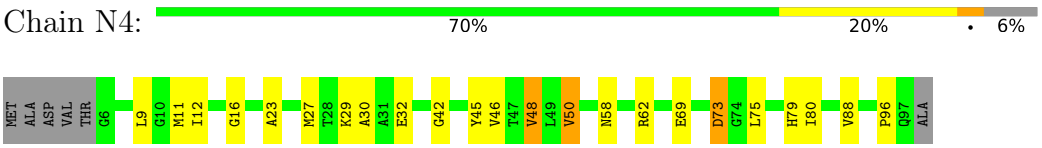
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain N3:



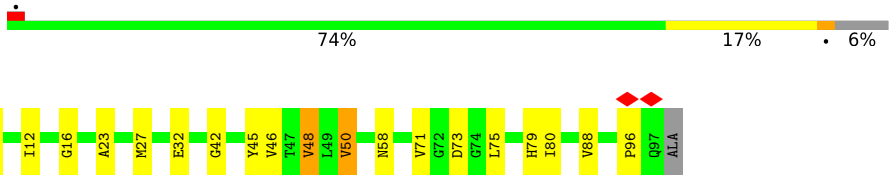
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain N4:



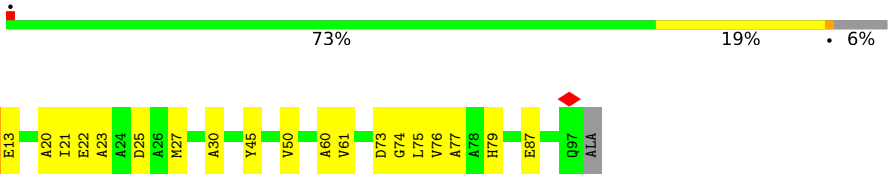
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain N5:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain O1:



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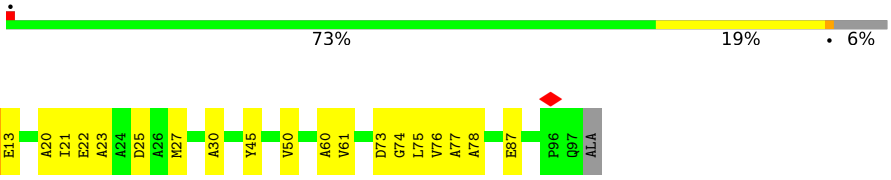
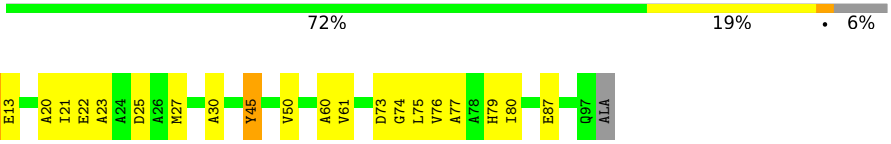


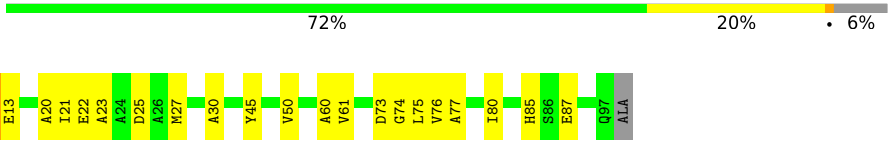
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain O3:



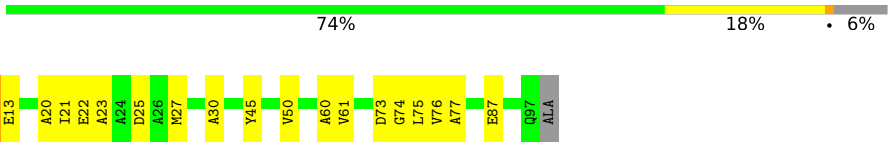
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain O4:



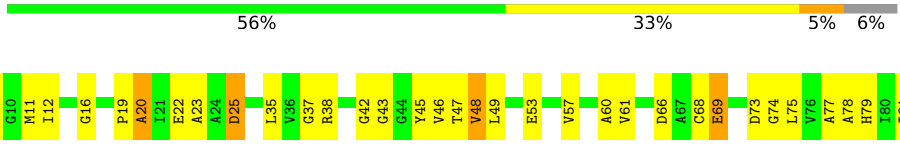
• Molecule 1: Major carboxysome shell protein CsoS1A

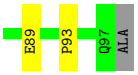
Chain O5:



• Molecule 1: Major carboxysome shell protein CsoS1A

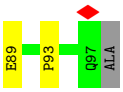
Chain A0:





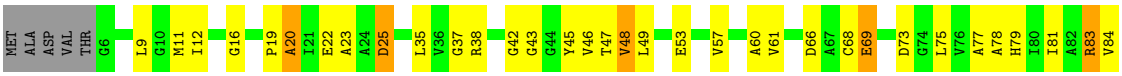
• Molecule 1: Major carboxysome shell protein CsoS1A

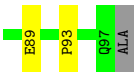
Chain A6:



• Molecule 1: Major carboxysome shell protein CsoS1A

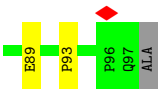
Chain A7:





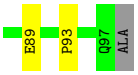
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain A8:



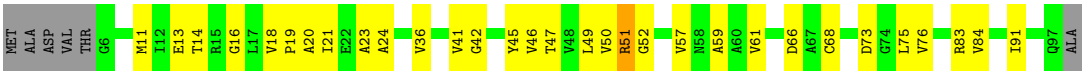
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain A9:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B0:

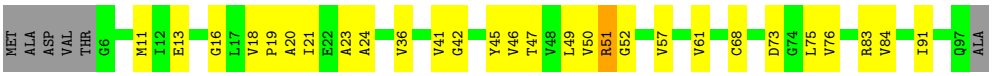


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B6:

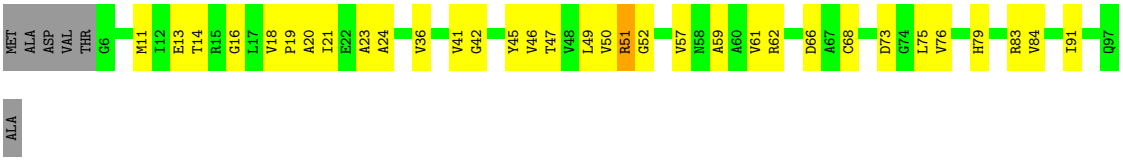
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B7:



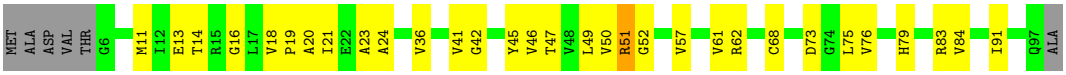
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B8:



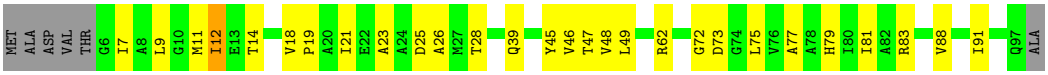
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain B9:



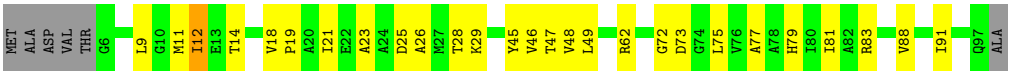
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C0:



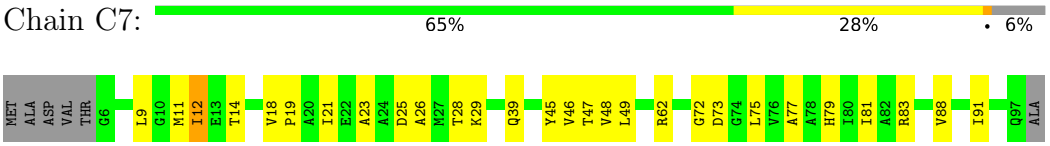
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C6:



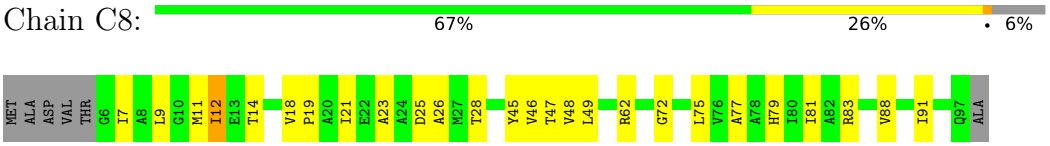
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C7:



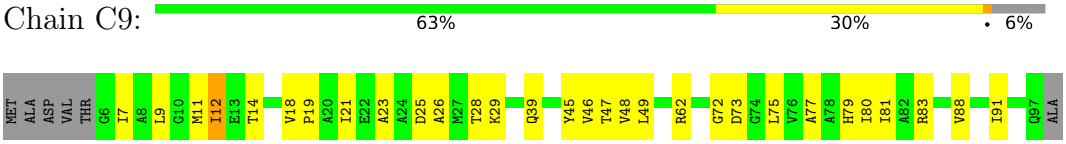
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C8:



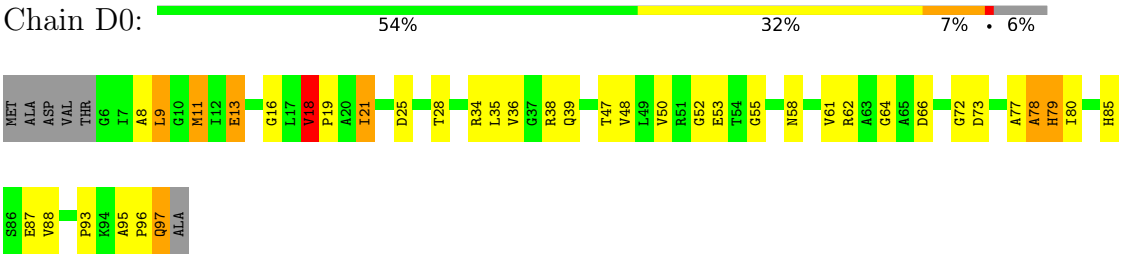
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain C9:



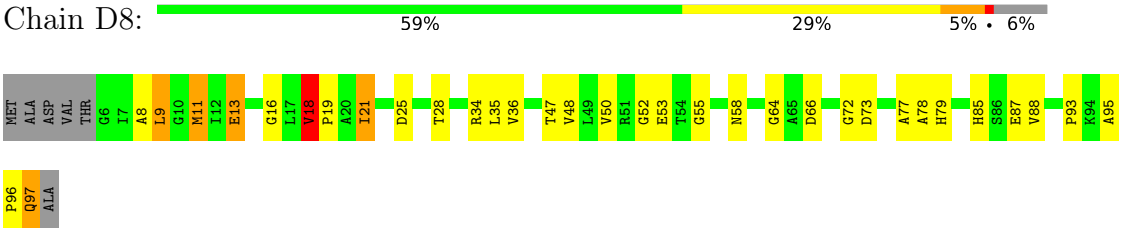
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D0:



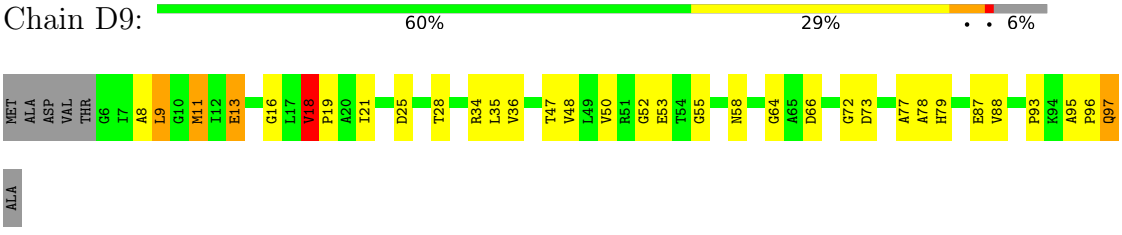
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D8:



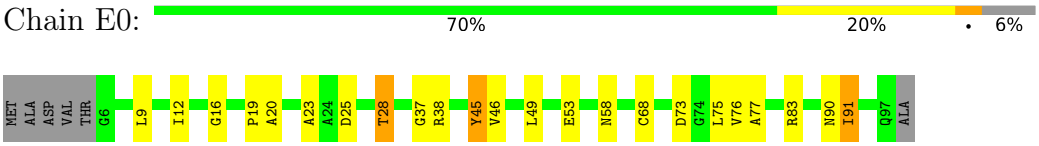
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D9:



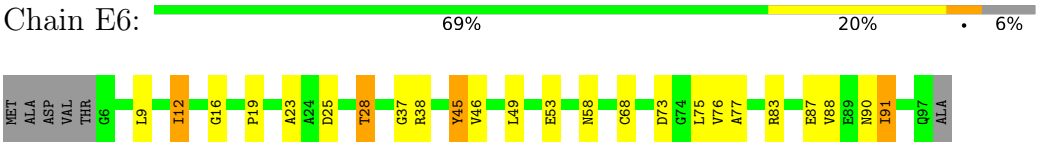
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E0:



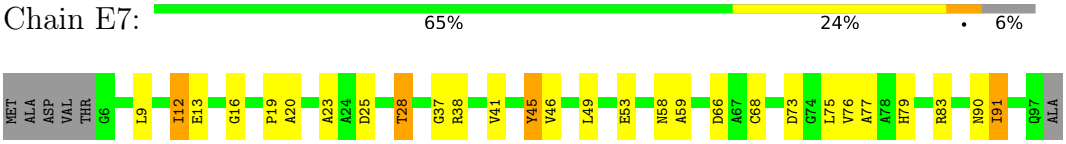
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E6:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E7:



• Molecule 1: Major carboxysome shell protein CsoS1A

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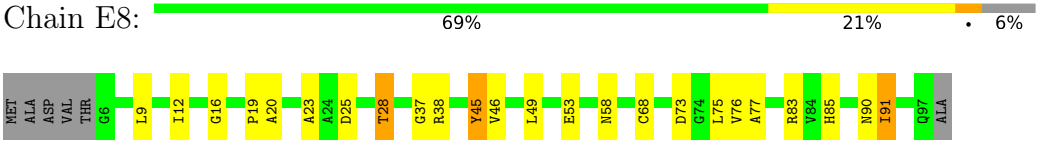
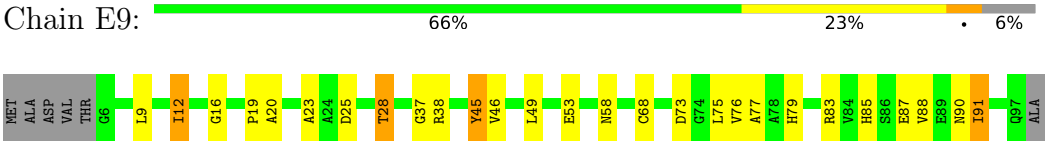


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E9:



• Molecule 1: Major carboxysome shell protein CsoS1A

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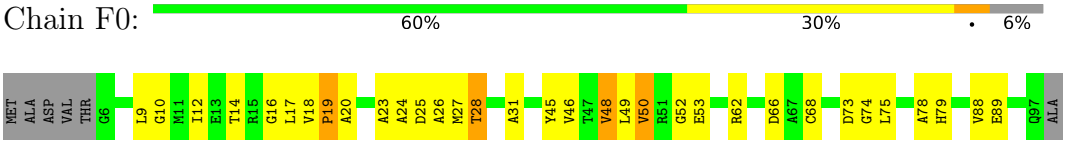

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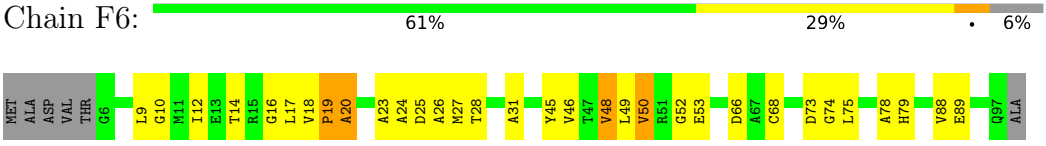

• Molecule 1: Major carboxysome shell protein CsoS1A

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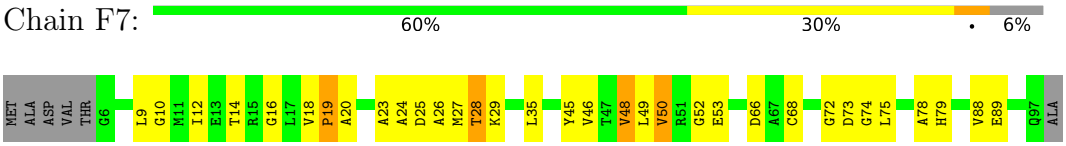

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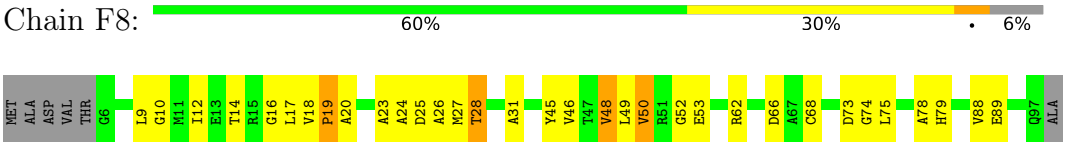

• Molecule 1: Major carboxysome shell protein CsoS1A

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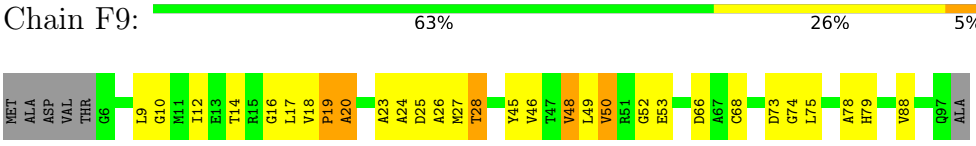
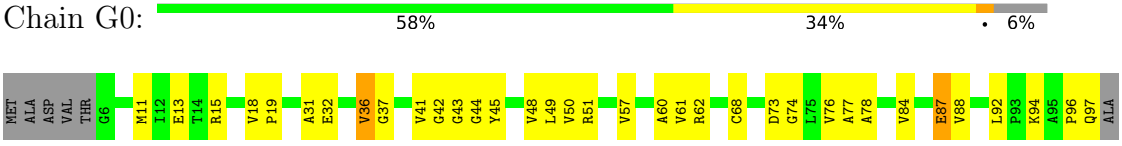


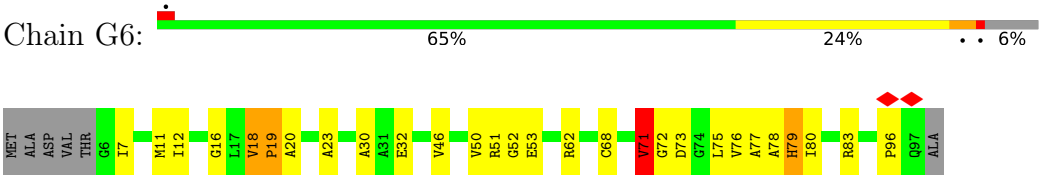
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain G0:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain G6:



• Molecule 1: Major carboxysome shell protein CsoS1A

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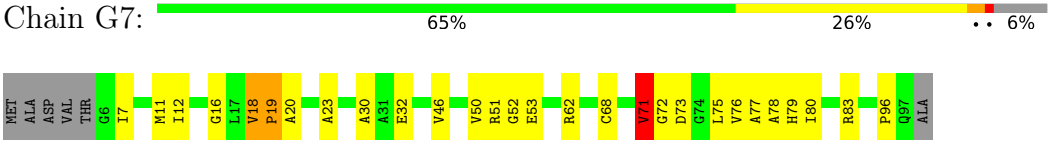

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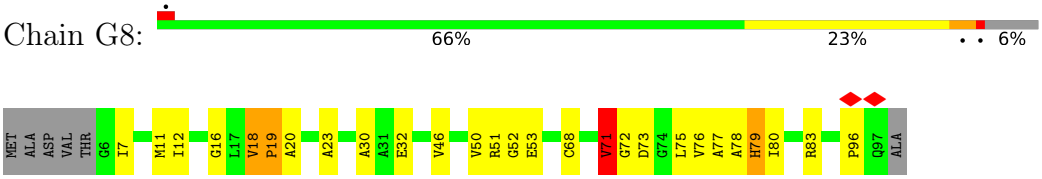

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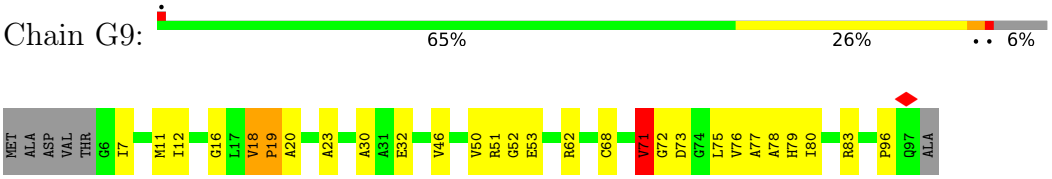

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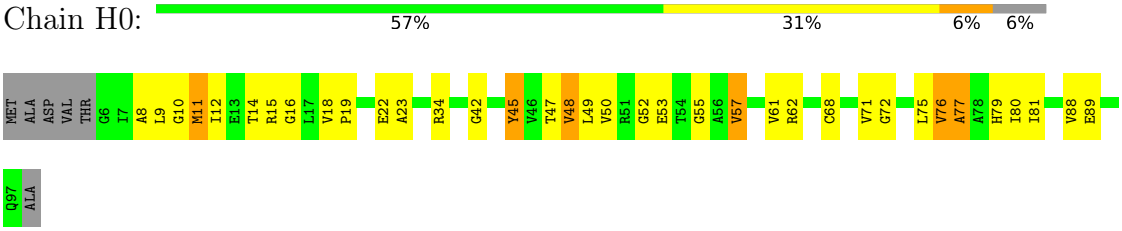
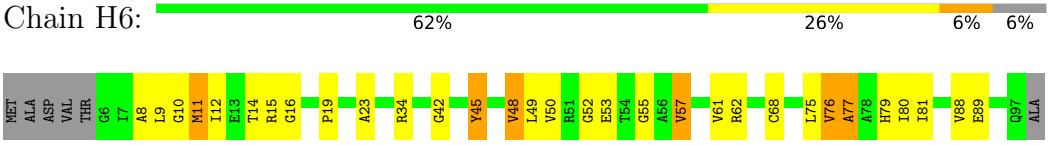
Chain H0:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain H6:



• Molecule 1: Major carboxysome shell protein CsoS1A

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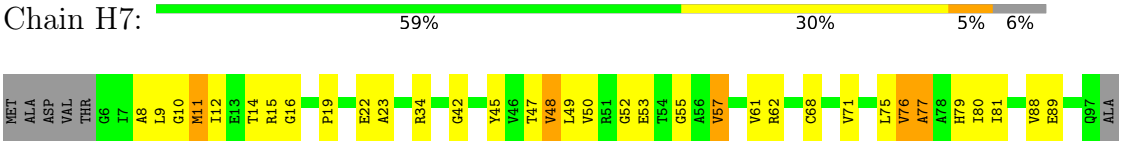

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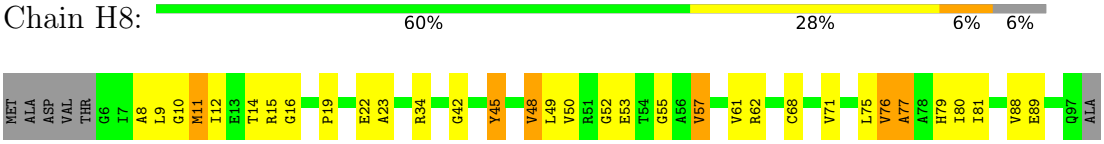

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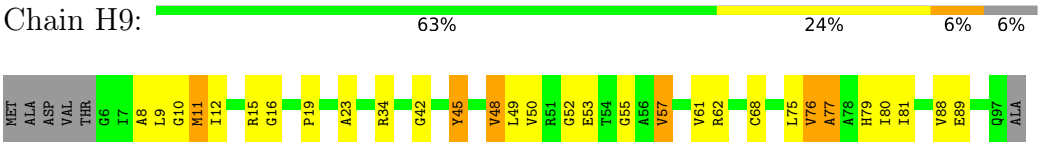

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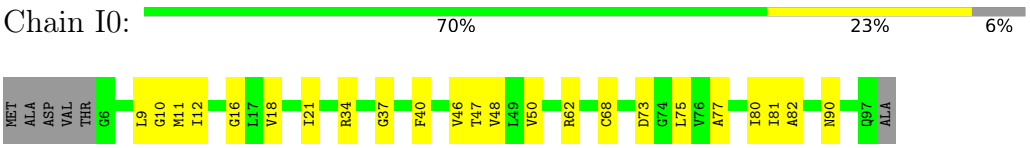
Chain I0:



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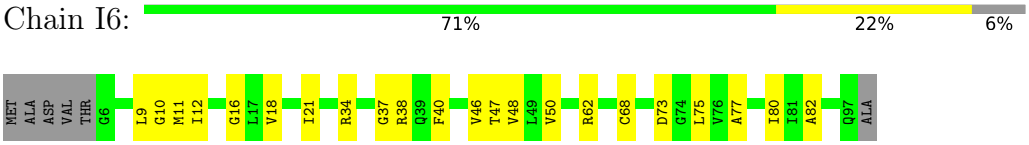

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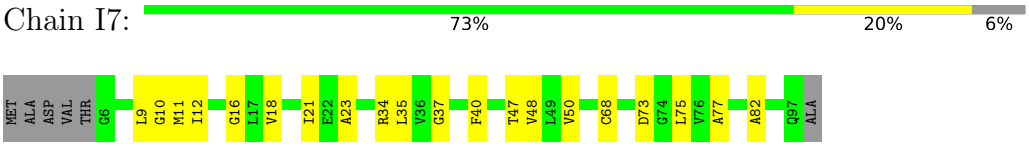

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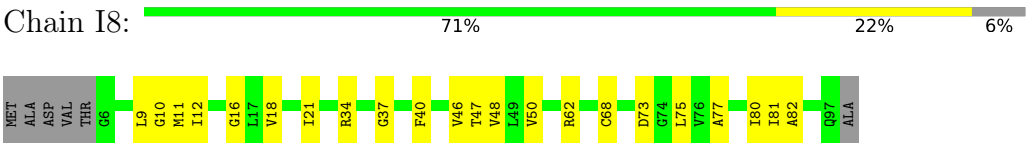

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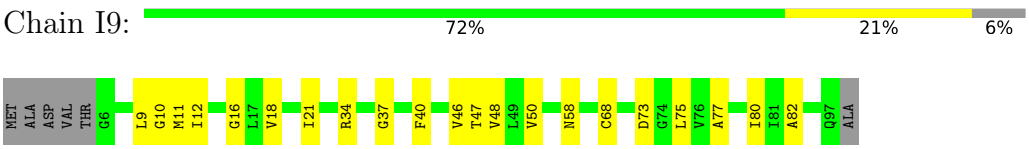

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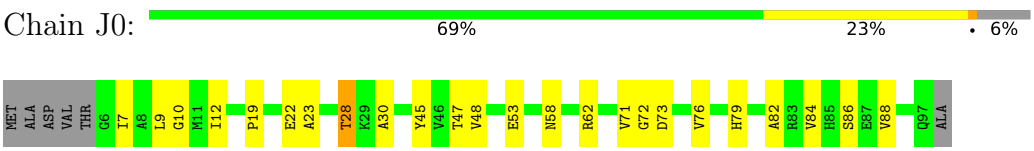

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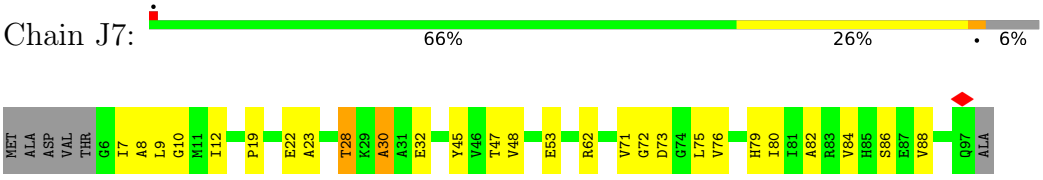

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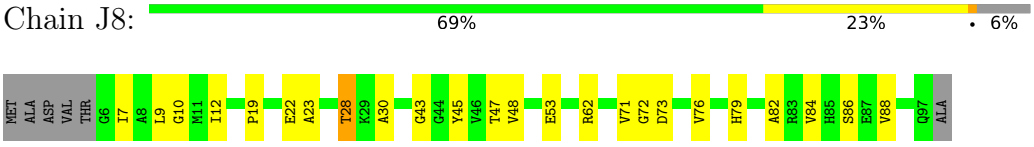

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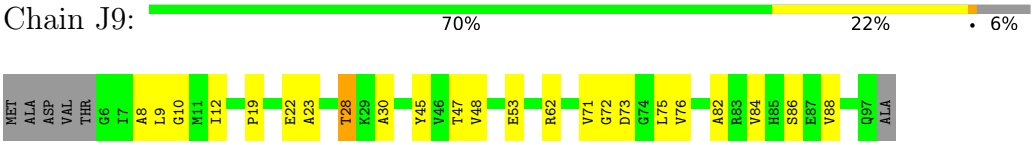

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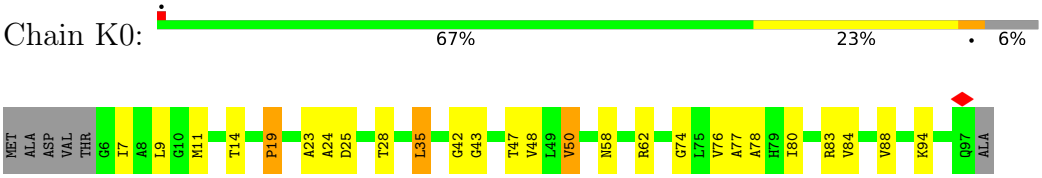

• Molecule 1: Major carboxysome shell protein CsoS1A

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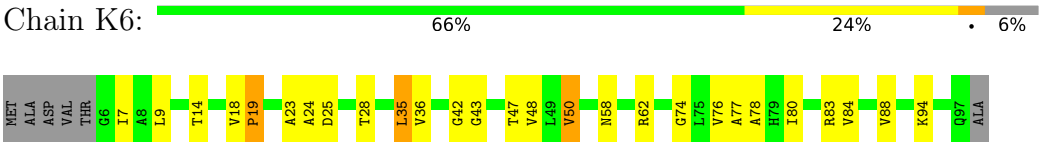

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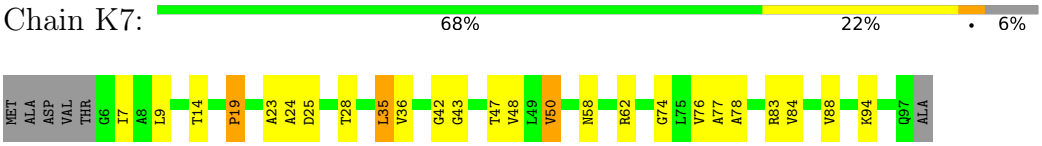

• Molecule 1: Major carboxysome shell protein CsoS1A

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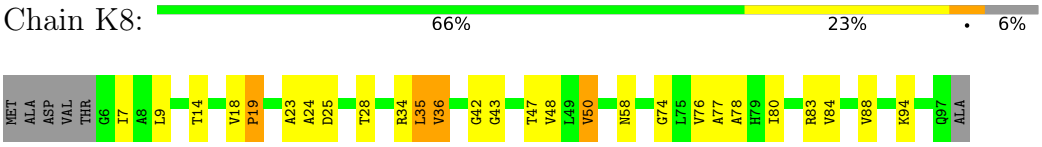
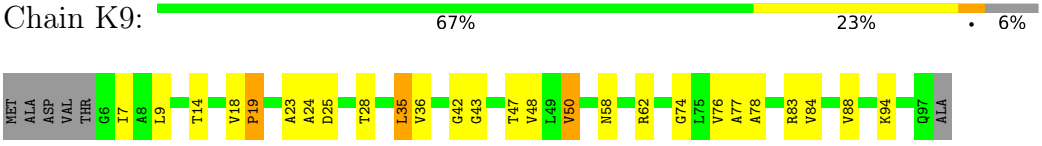


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain K9:



• Molecule 1: Major carboxysome shell protein CsoS1A

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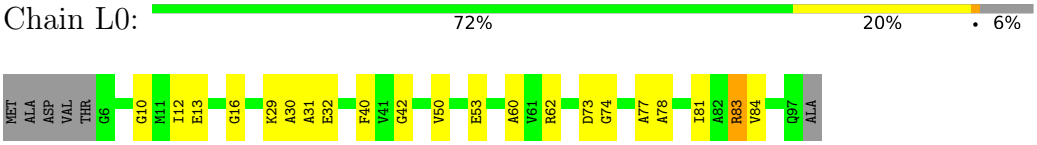

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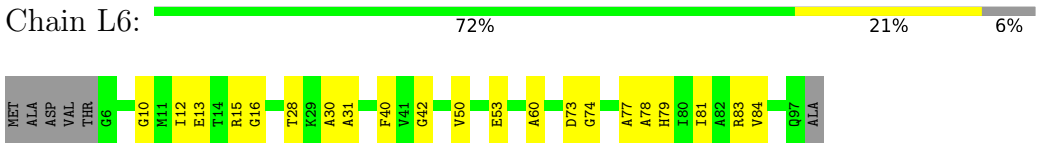

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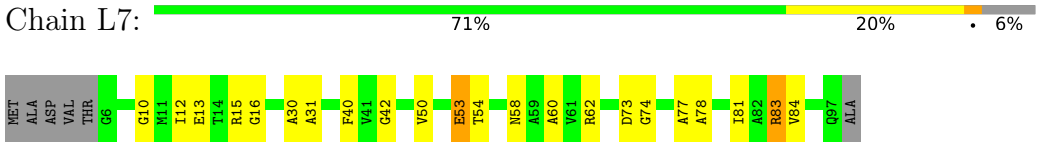

• Molecule 1: Major carboxysome shell protein CsoS1A

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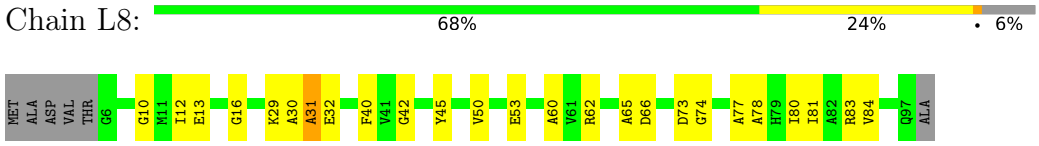

• Molecule 1: Major carboxysome shell protein CsoS1A

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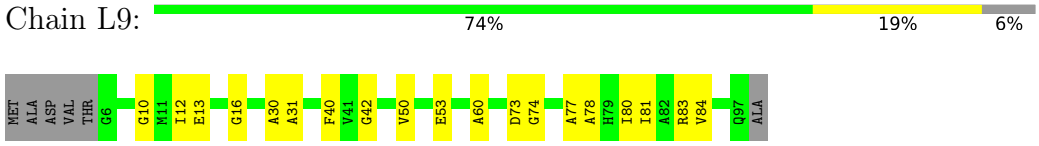

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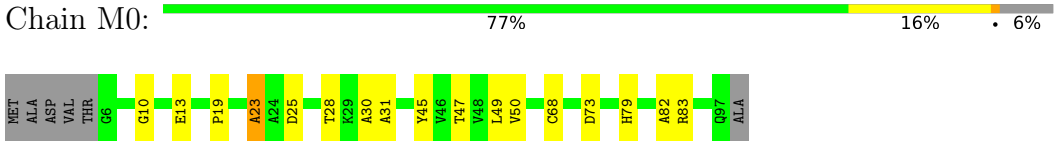

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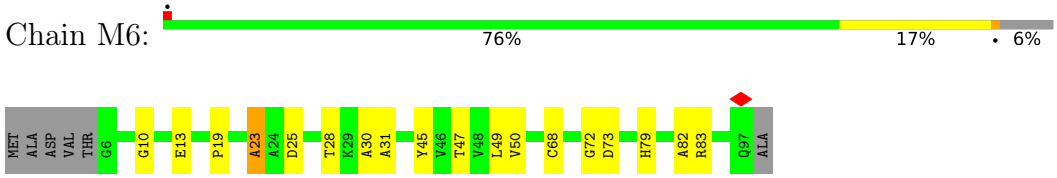

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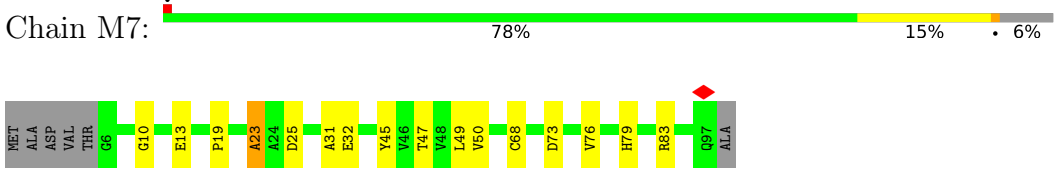

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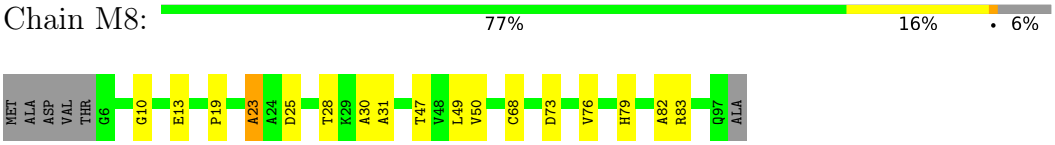

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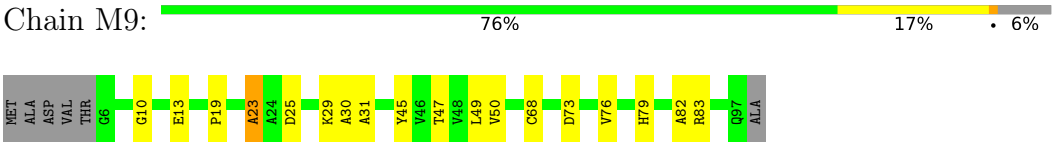

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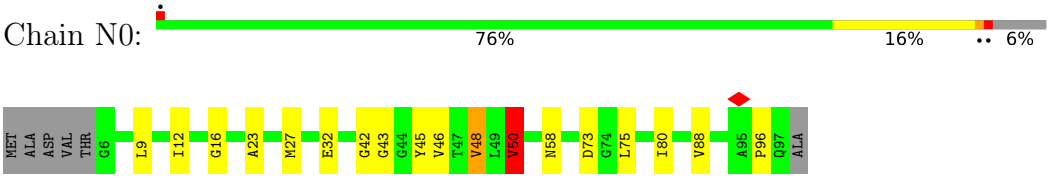

• Molecule 1: Major carboxysome shell protein CsoS1A

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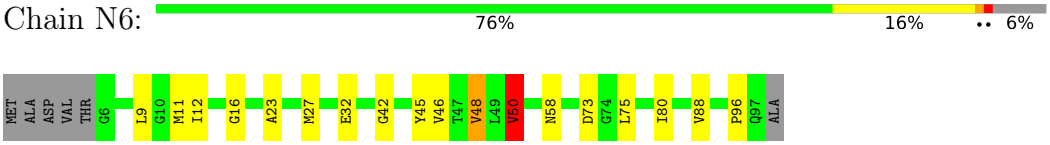

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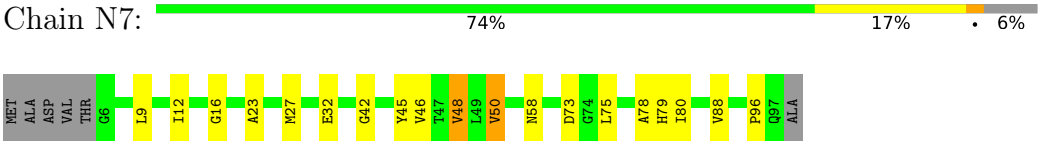
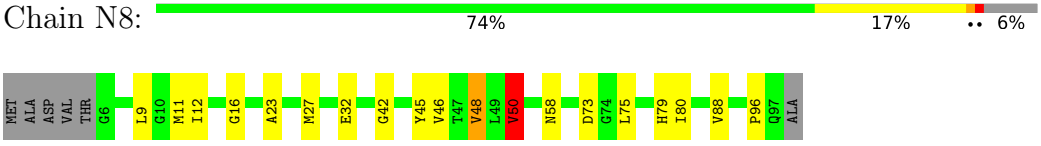


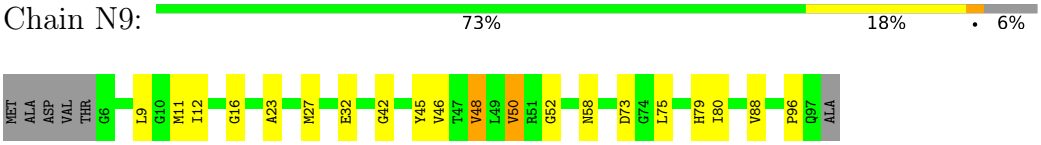
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain N8:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain N9:



• Molecule 1: Major carboxysome shell protein CsoS1A

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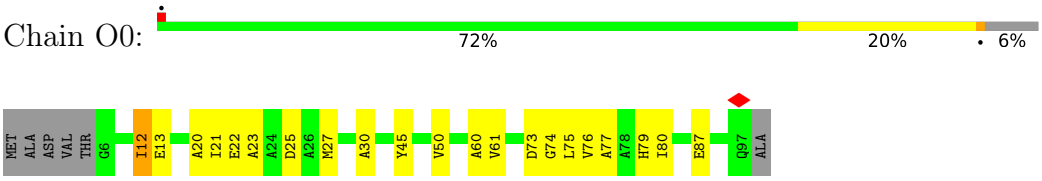

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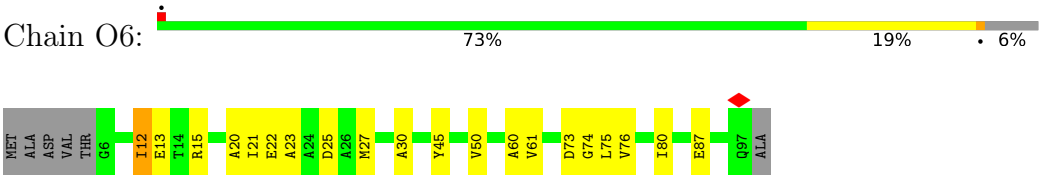
Chain O6:



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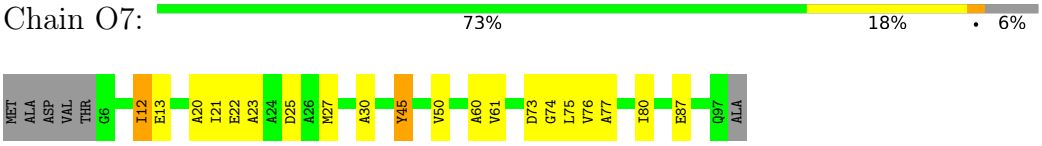
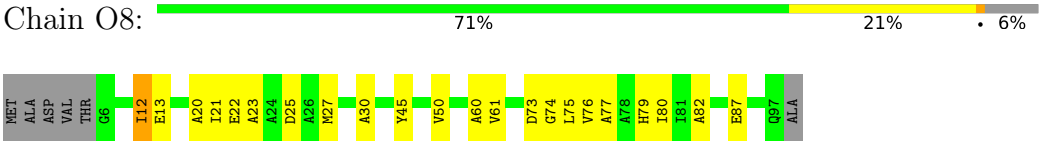
Chain O7:



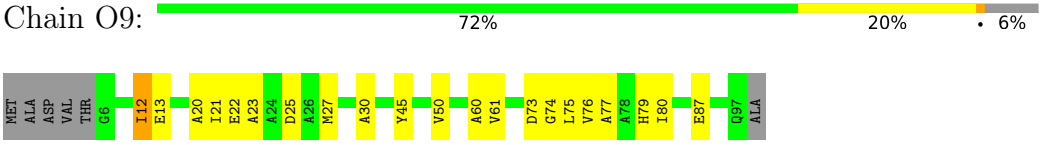
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain O8:



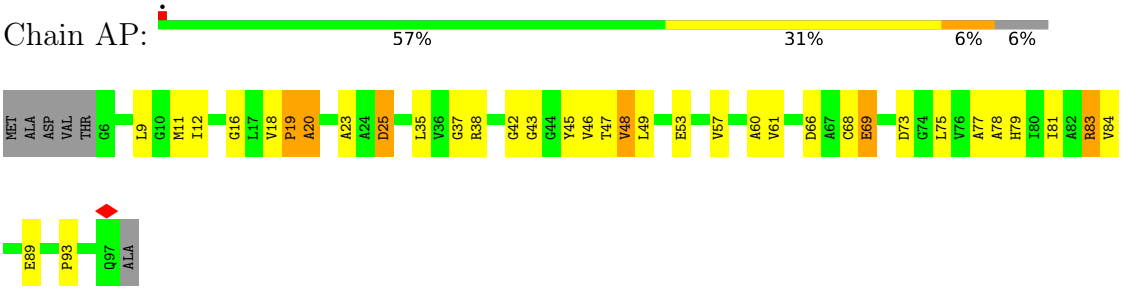
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain O9:



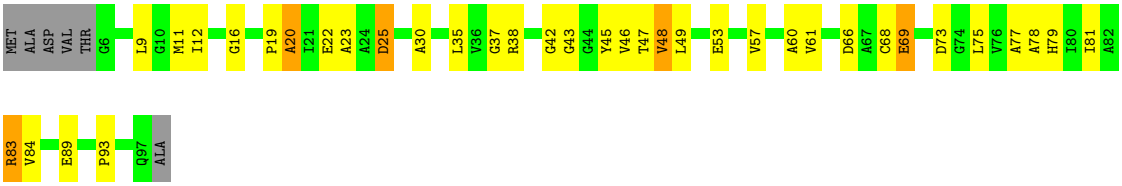
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AP:



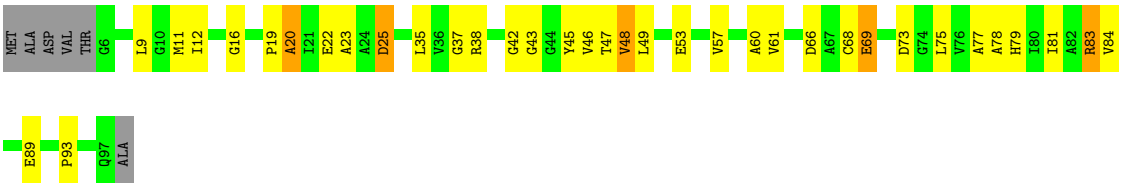
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AQ:



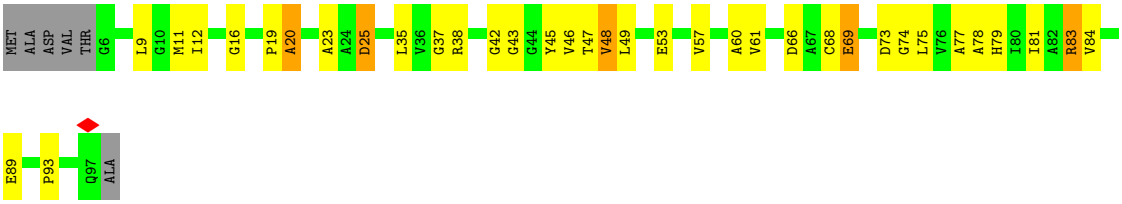
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AR:



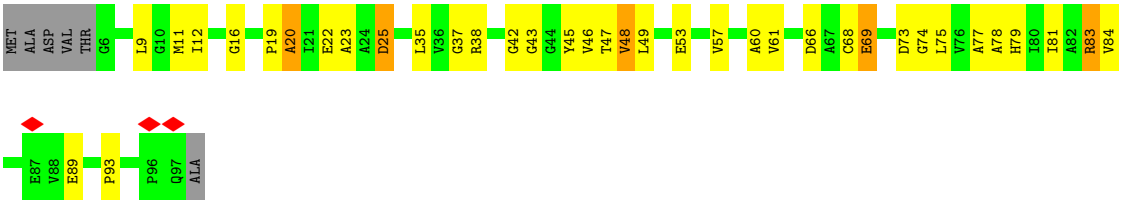
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AS:



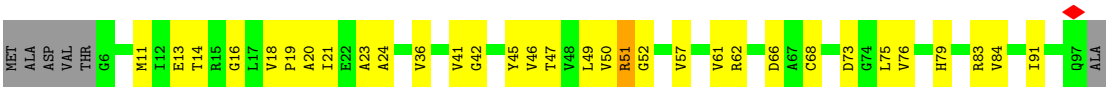
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AT:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BP:



• Molecule 1: Major carboxysome shell protein CsoS1A

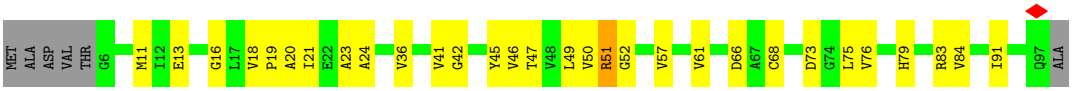
Chain BQ:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BR:

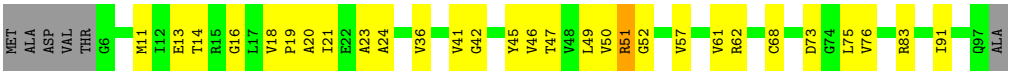
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BS:



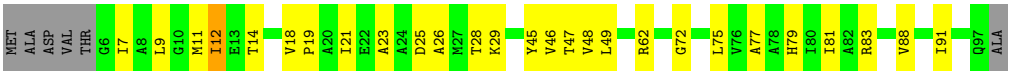
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BT:



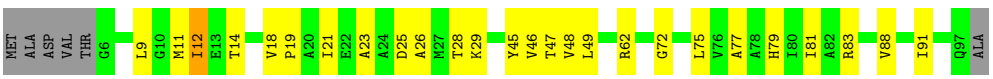
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CP:



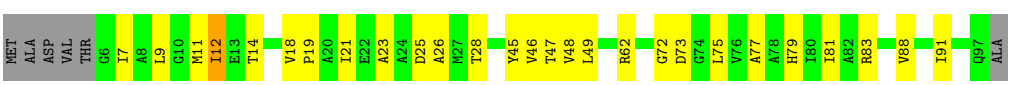
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CQ:



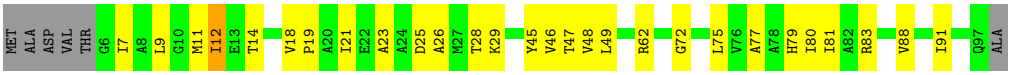
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CR:



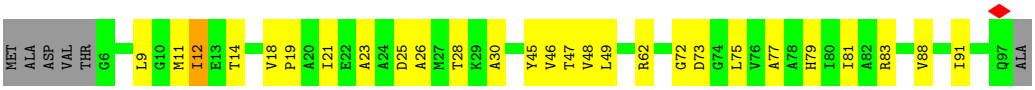
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CS:



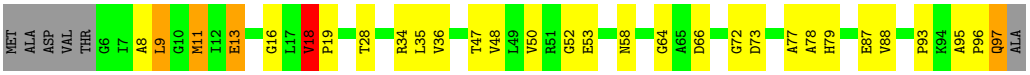
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CT:



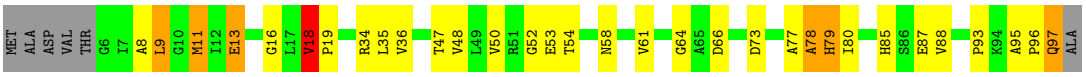
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DP:



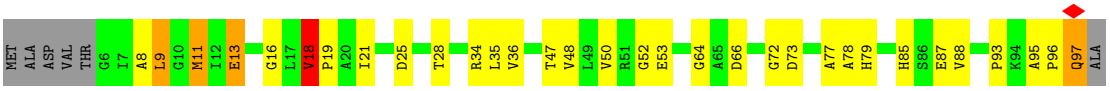
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DQ:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DT:



• Molecule 1: Major carboxysome shell protein CsoS1A

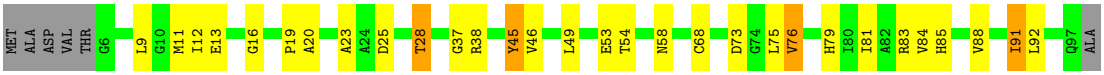
Chain EP:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EQ:

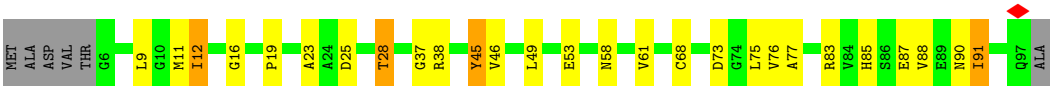
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain ER:



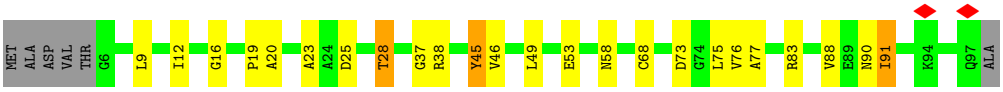
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain ES:



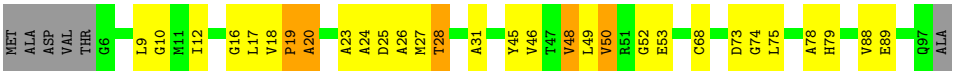
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain ET:



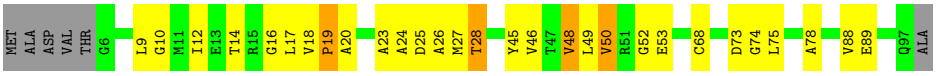
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FP:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FQ:

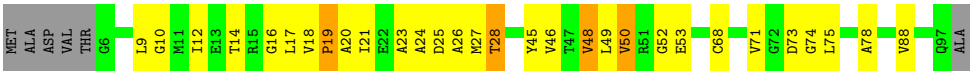


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FR:

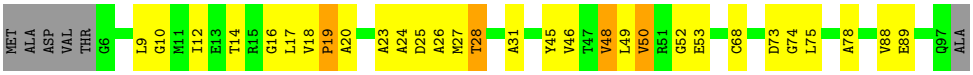
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FS:



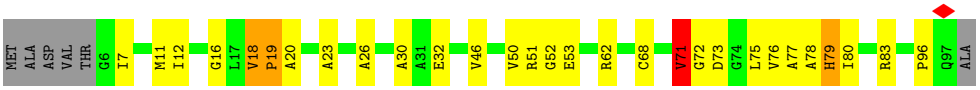
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FT:



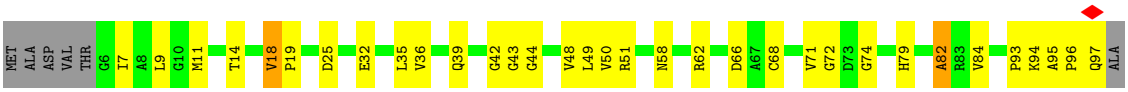
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GP:



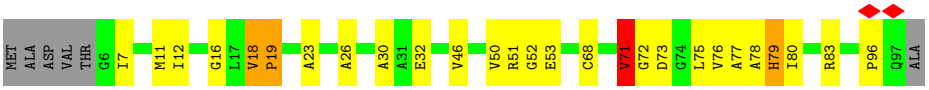
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GQ:



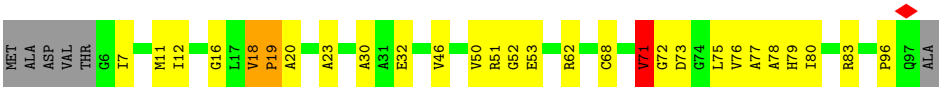
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GR:



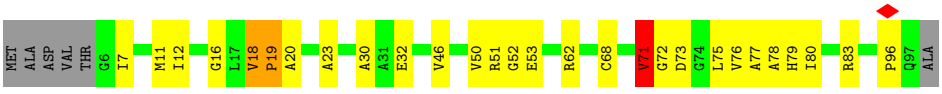
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GS:



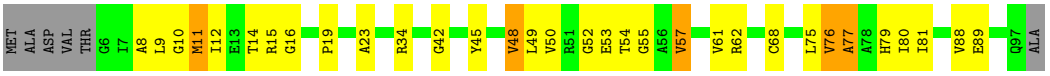
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GT:



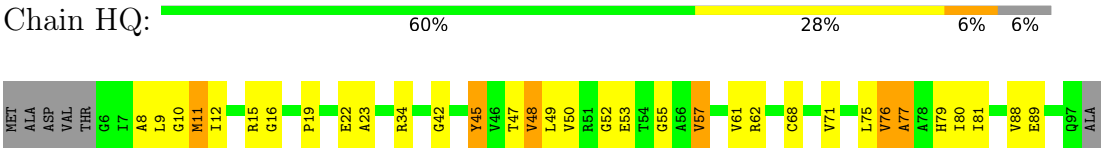
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HP:



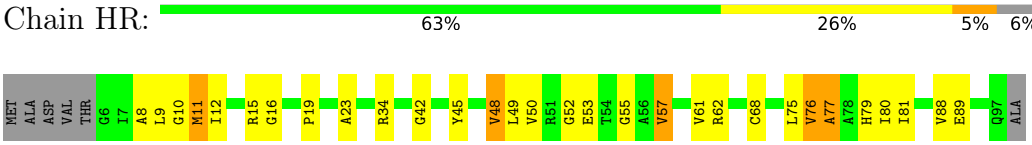
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HQ:



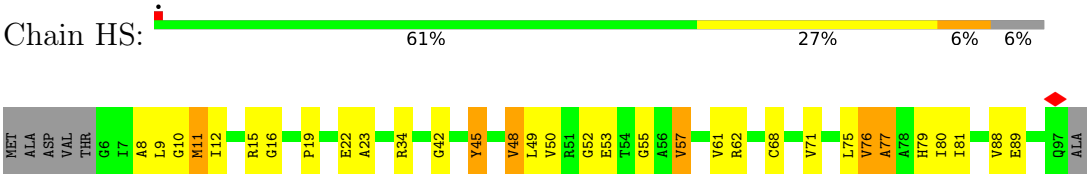
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HR:



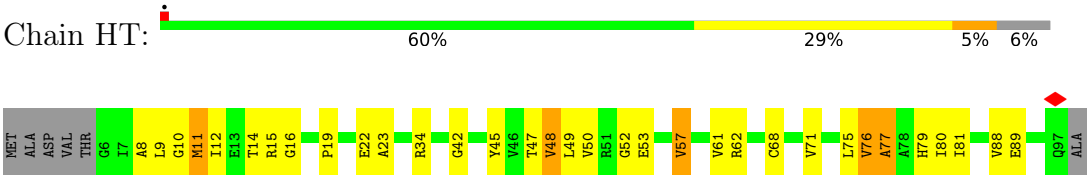
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HS:



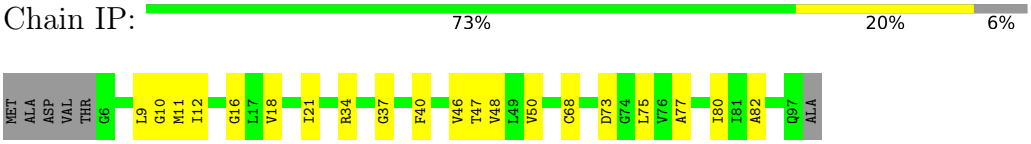
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HT:



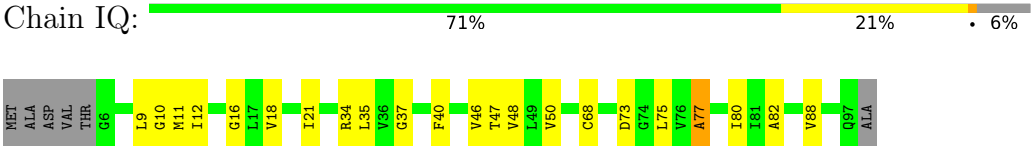
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IP:



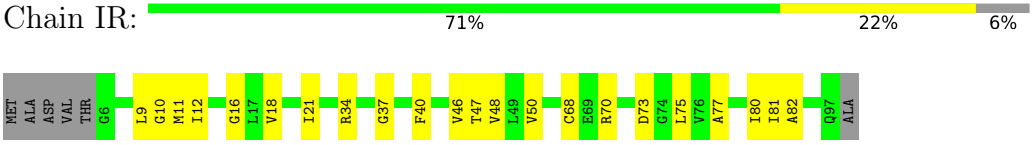
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IQ:



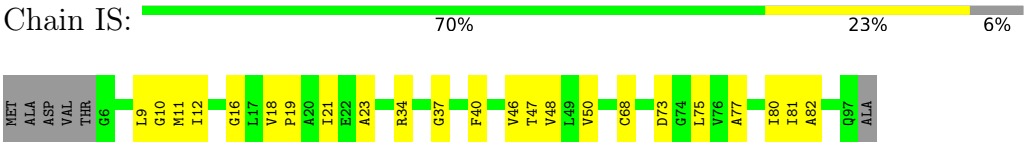
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IR:



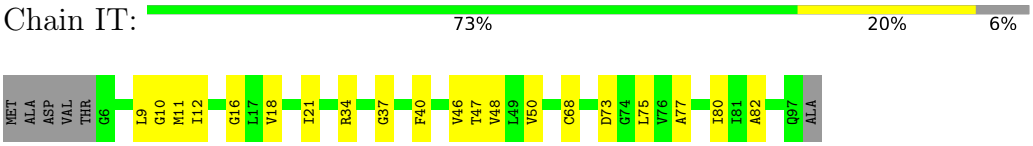
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IS:



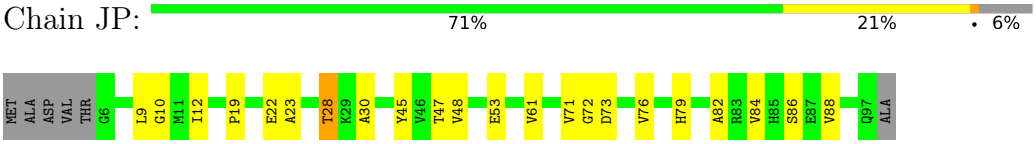
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IT:



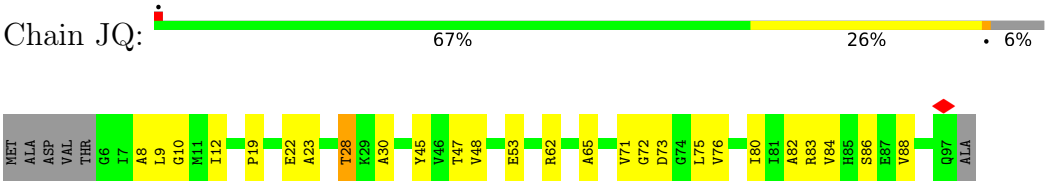
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JP:



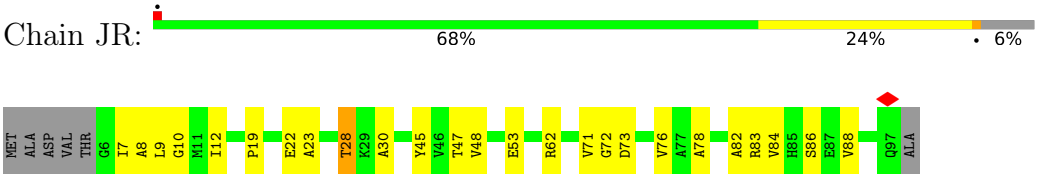
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JQ:



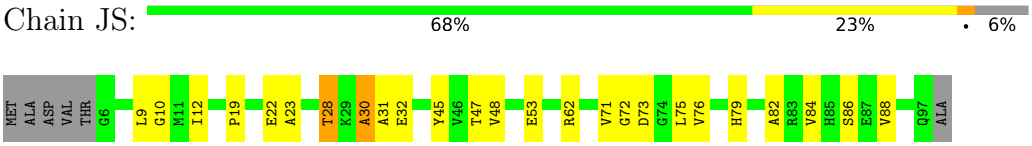
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JR:



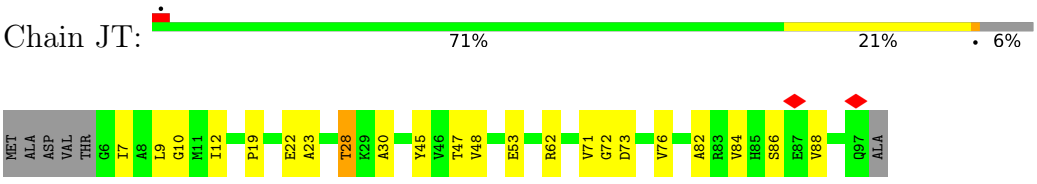
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JS:



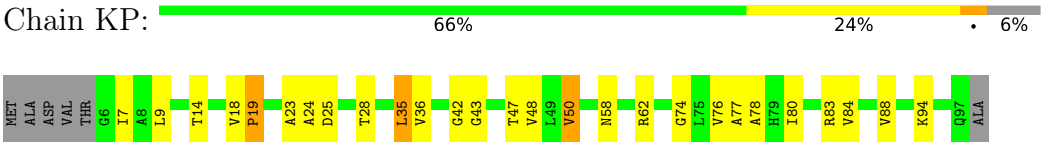
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JT:



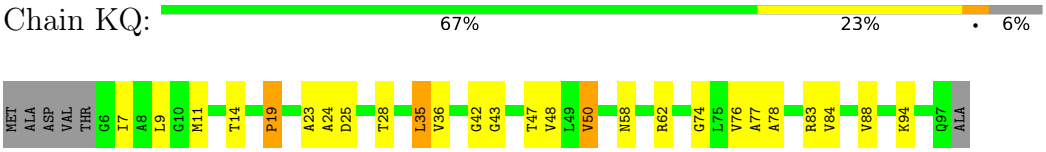
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KP:



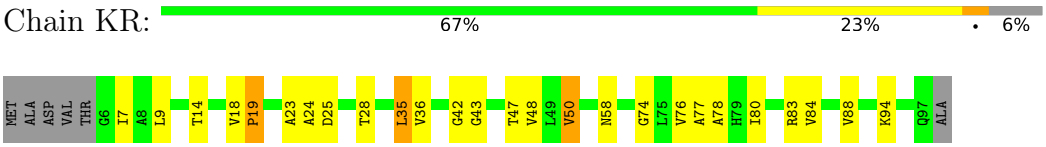
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KQ:



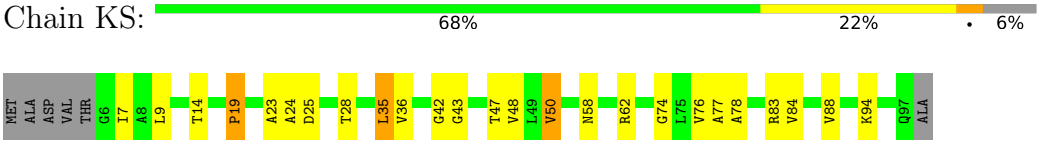
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KR:



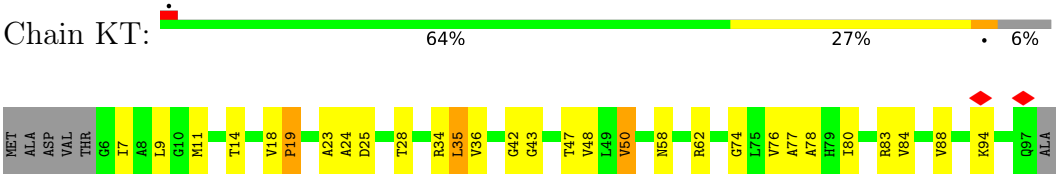
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KS:



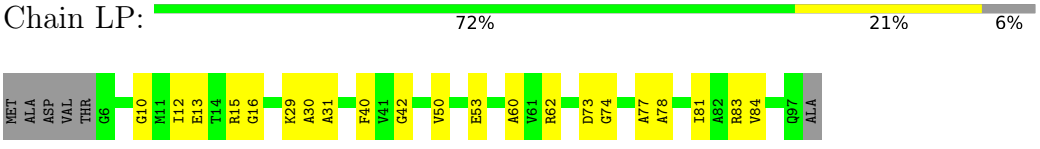
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KT:



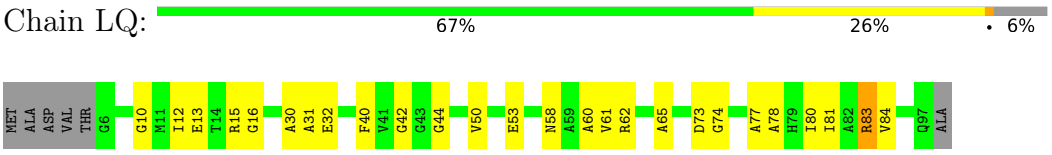
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LP:



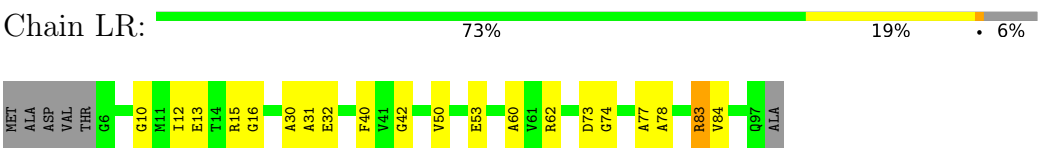
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LQ:



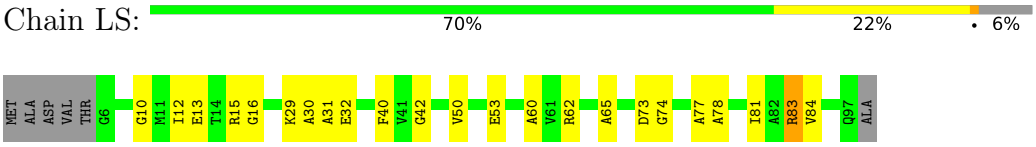
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LR:



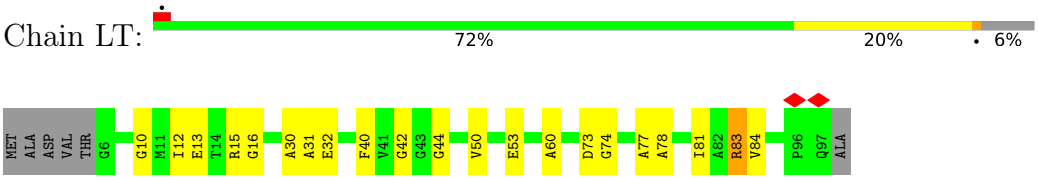
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LS:



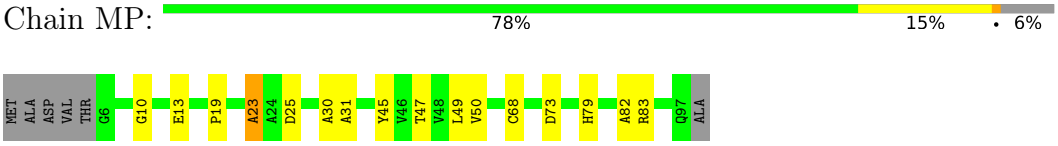
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LT:



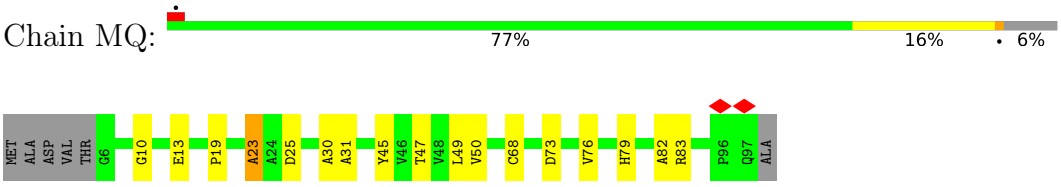
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MP:



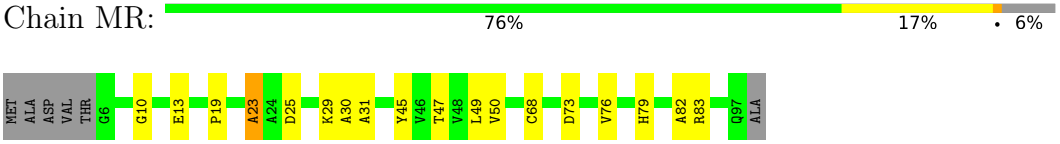
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MQ:



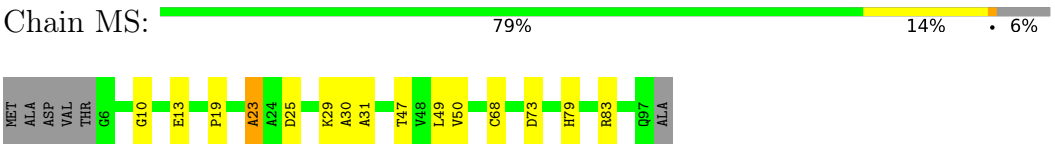
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MR:



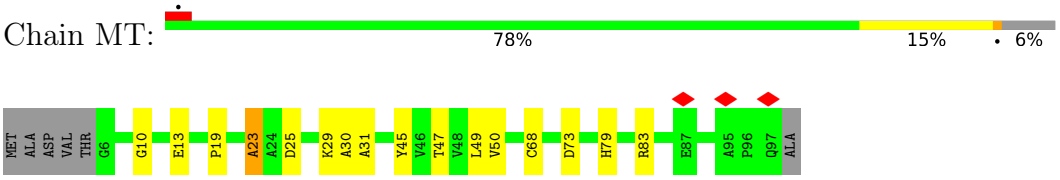
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MS:



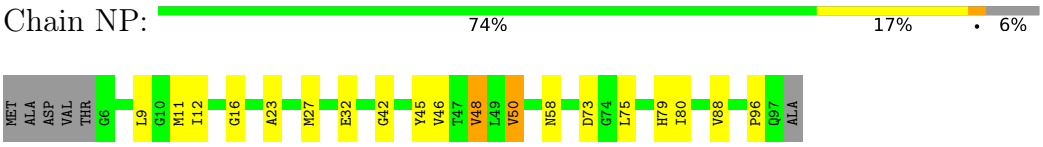
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MT:



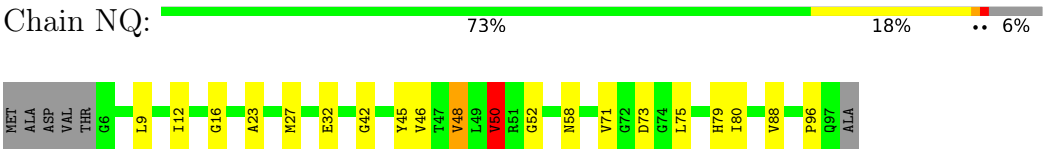
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NP:



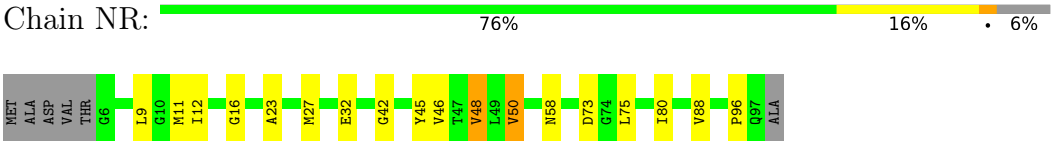
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NQ:



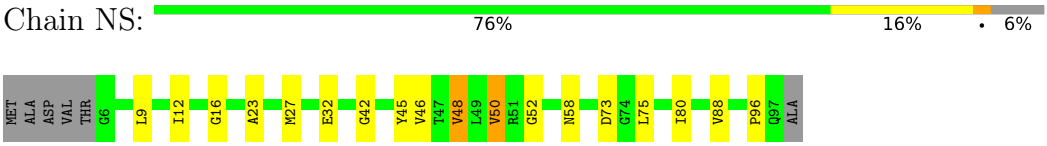
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NR:



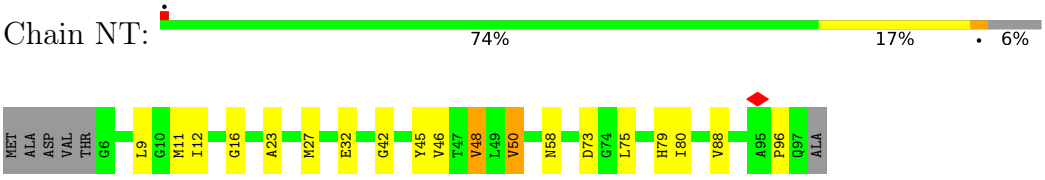
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NS:



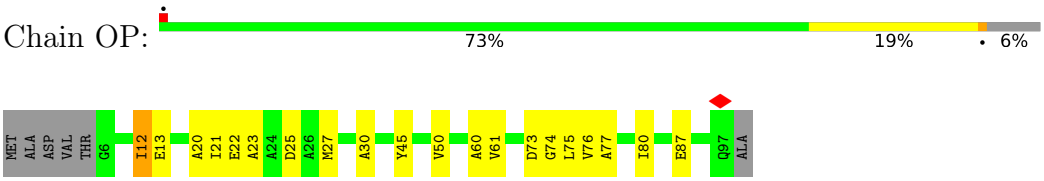
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NT:



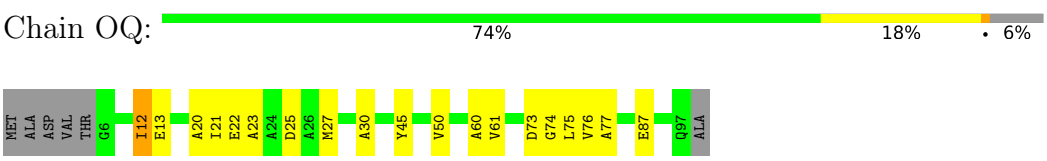
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OP:



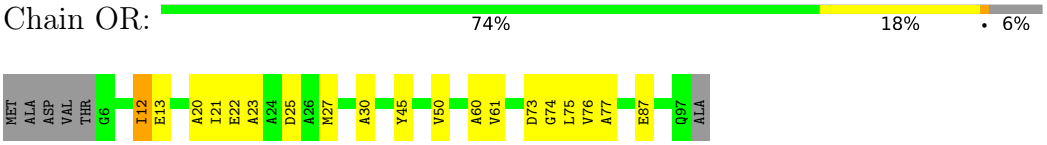
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OQ:



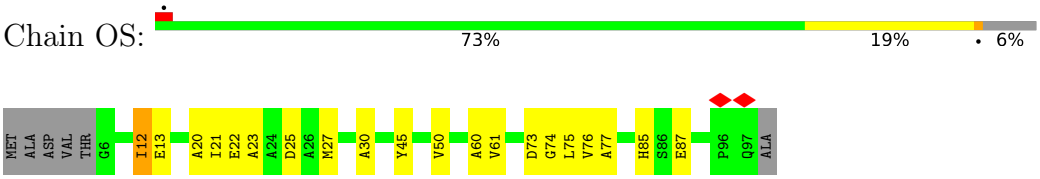
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OR:



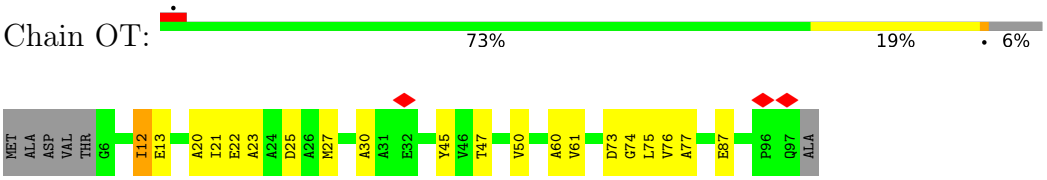
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OS:



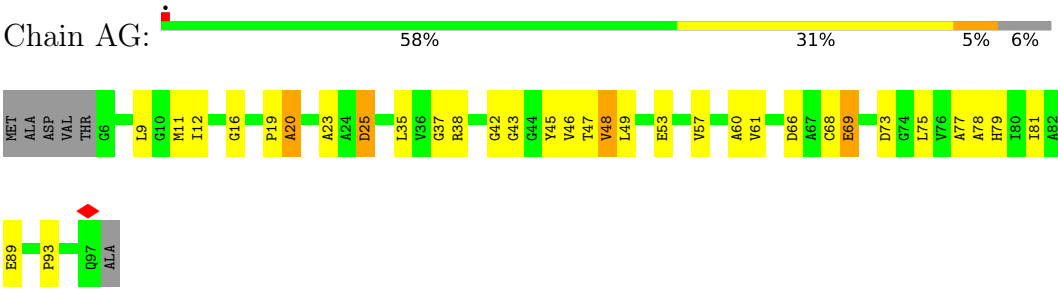
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OT:



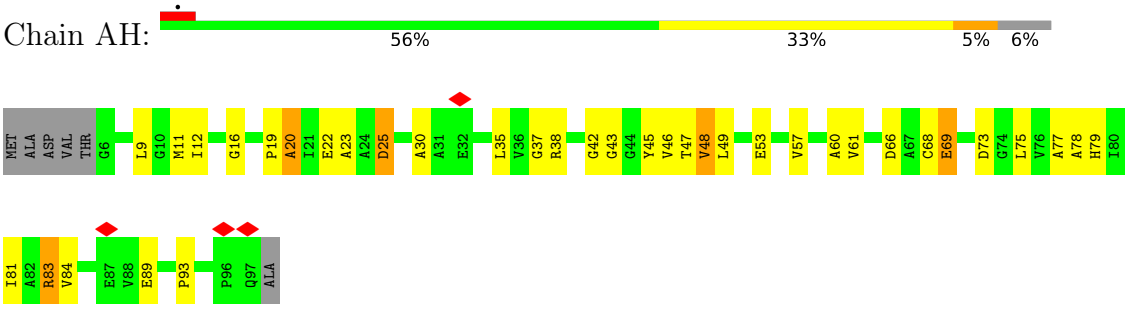
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AG:



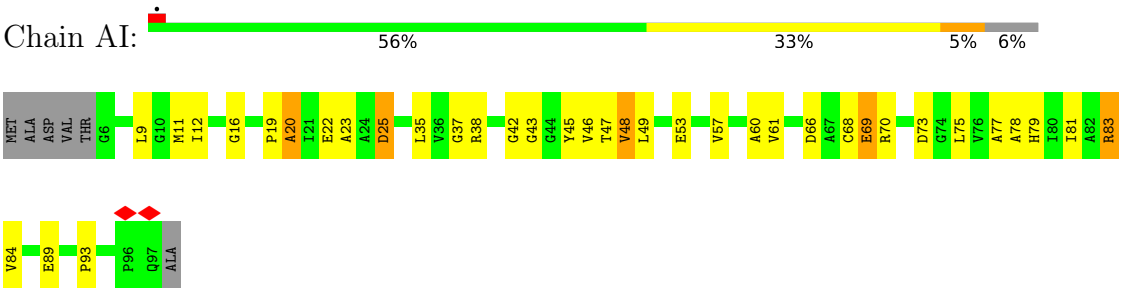
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AH:



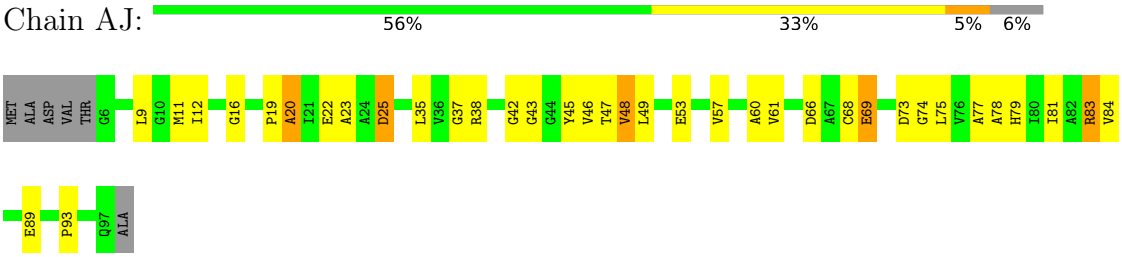
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AI:



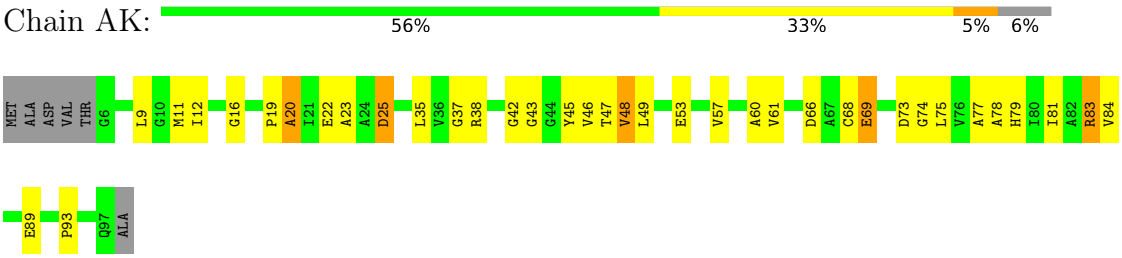
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AJ:



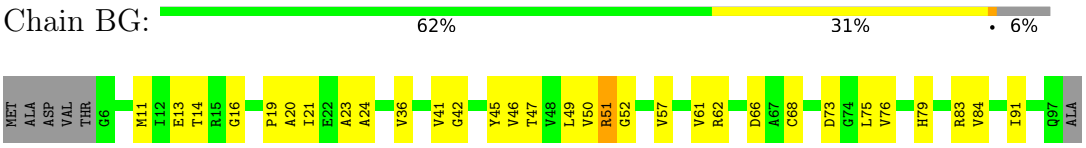
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AK:



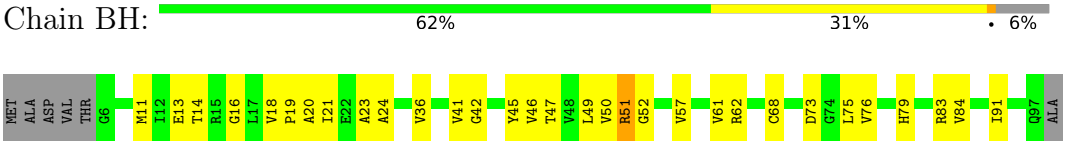
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BG:



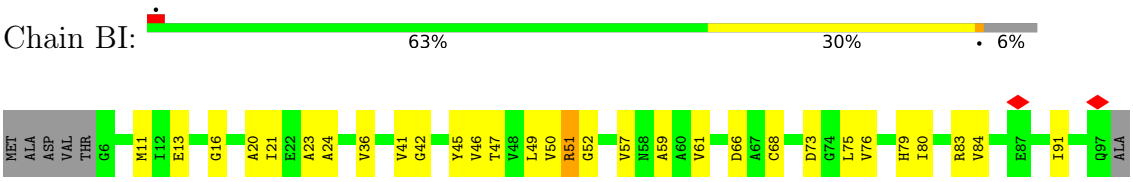
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BH:



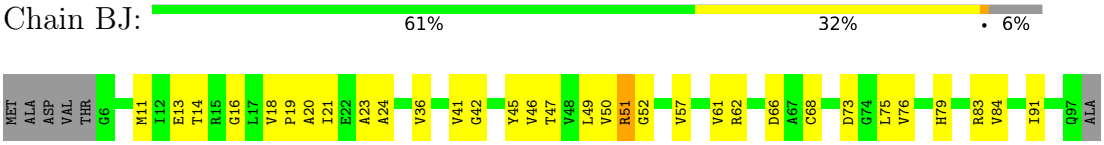
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BI:



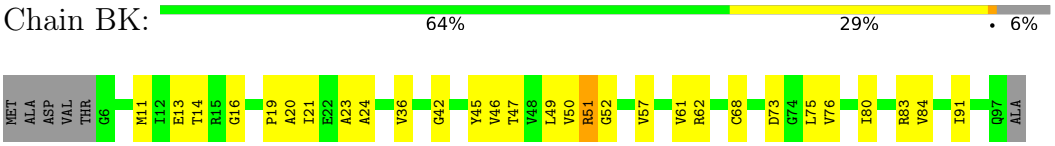
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BJ:



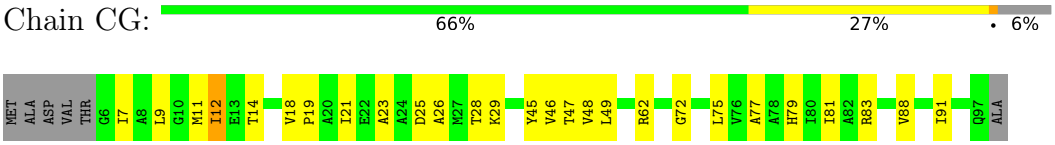
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BK:



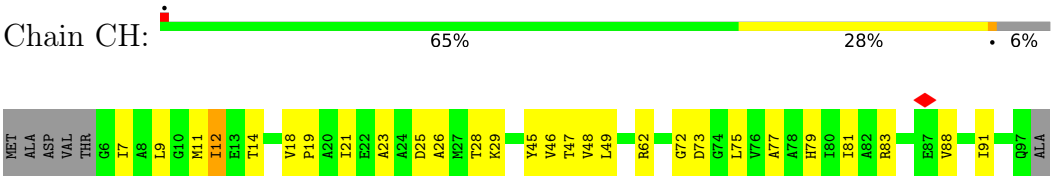
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CG:



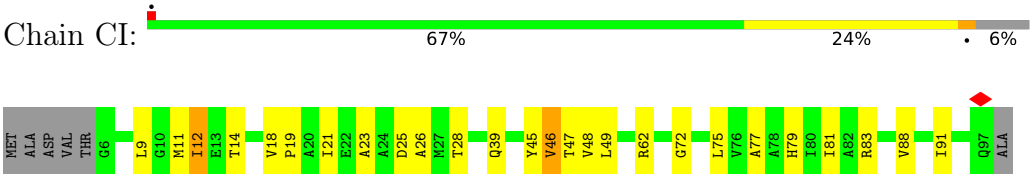
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CH:



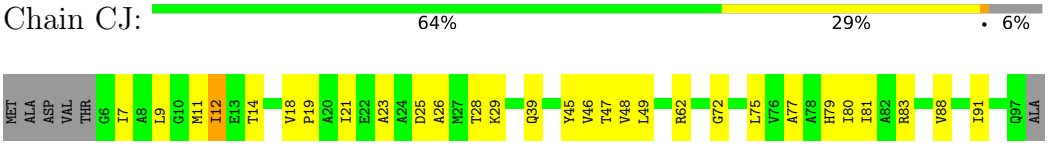
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CI:



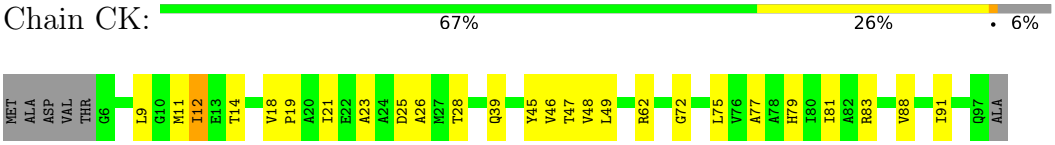
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CJ:



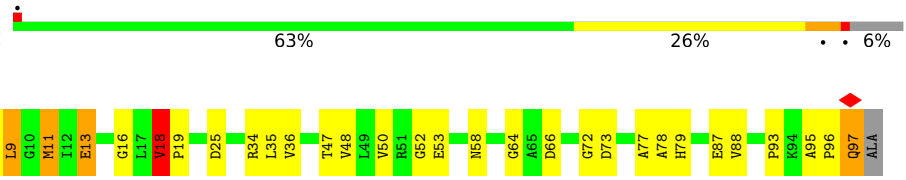
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CK:



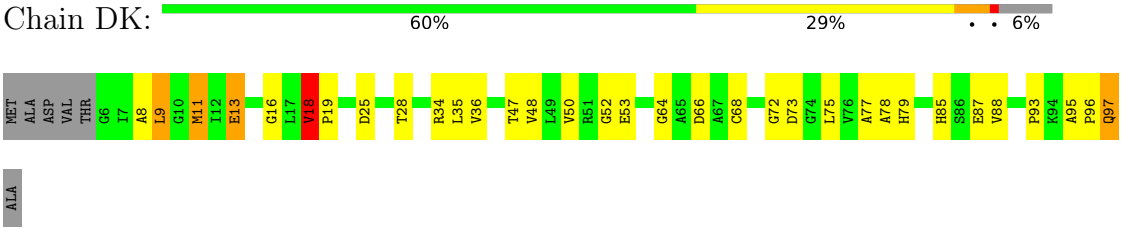
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DG:



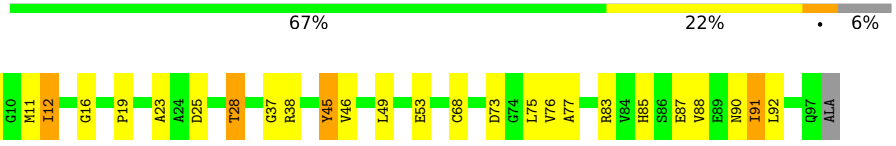
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DK:



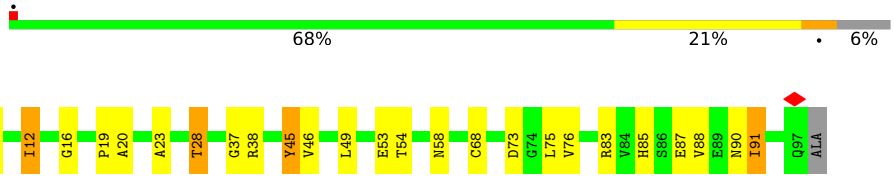
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EG:



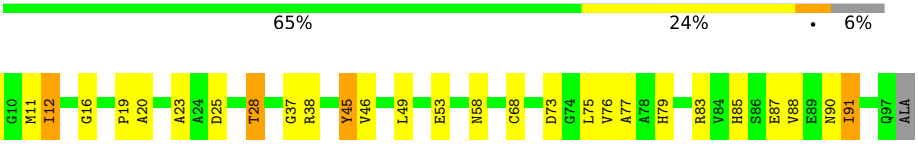
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EH:



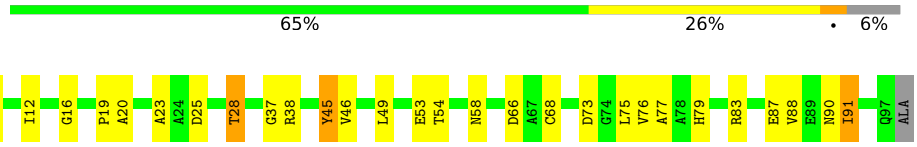
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EJ:



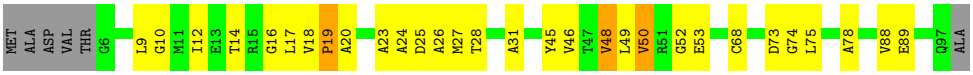
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EK:



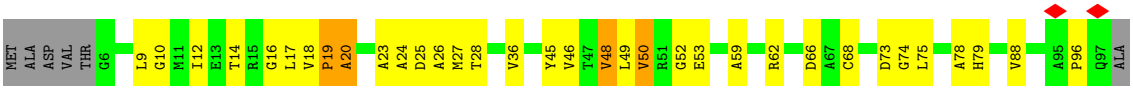
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FG:



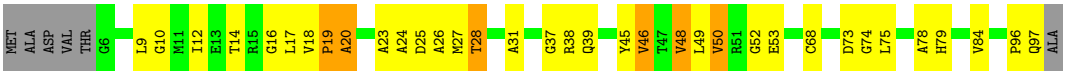
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FH:



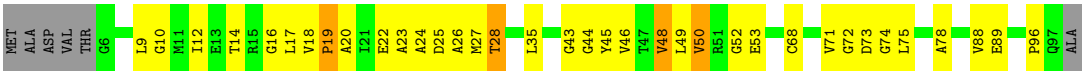
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FI:



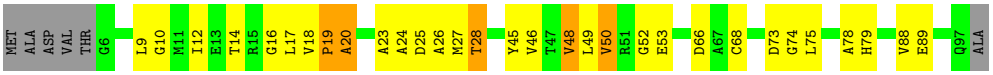
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FJ:



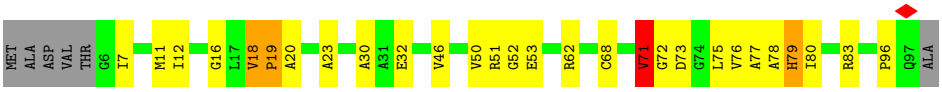
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FK:



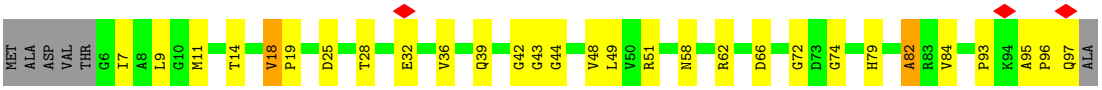
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GG:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GH:



• Molecule 1: Major carboxysome shell protein CsoS1A

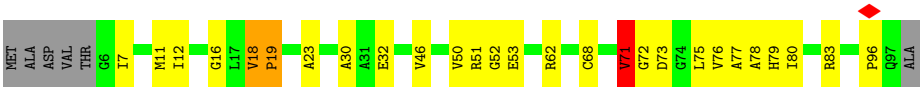
Chain GI:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GJ:

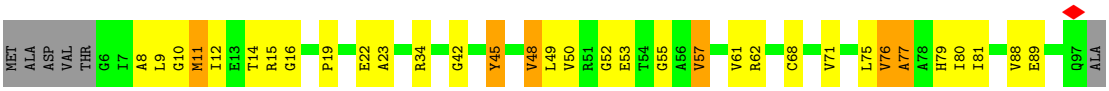
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GK:



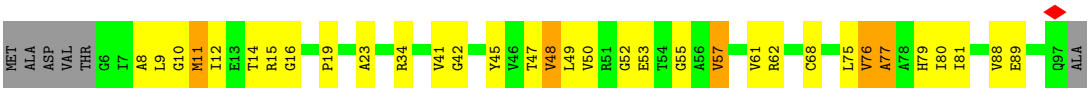
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HG:



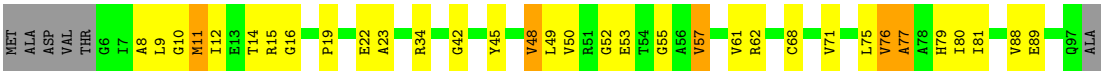
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HH:



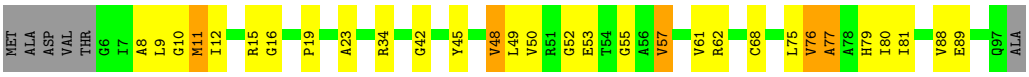
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HI:



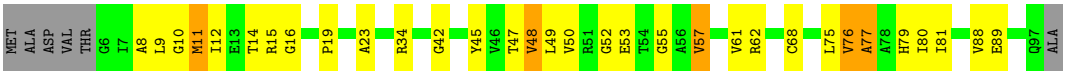
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HJ:



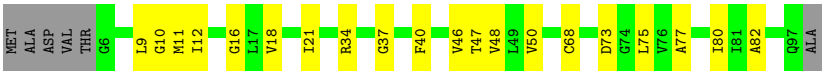
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HK:



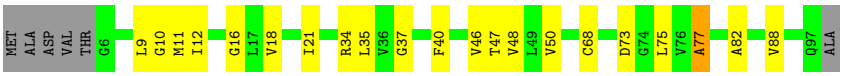
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IG:



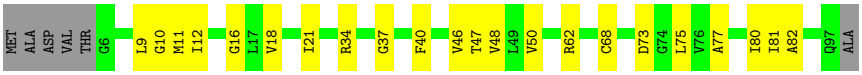
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IH:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain II:



• Molecule 1: Major carboxysome shell protein CsoS1A

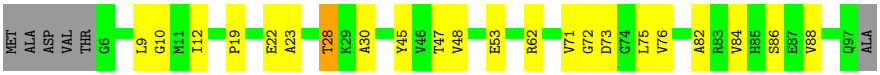
Chain IJ:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IK:

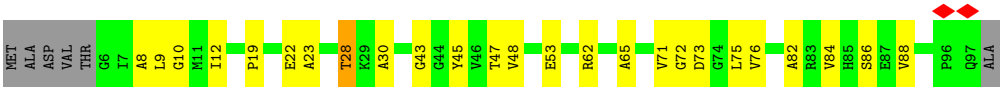
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JG:



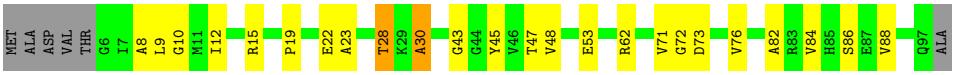
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JH:



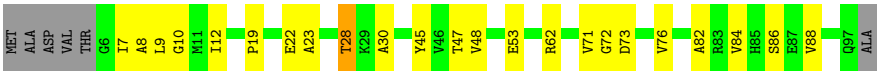
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JJ:



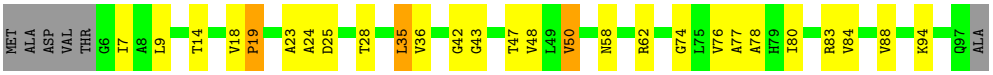
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JK:



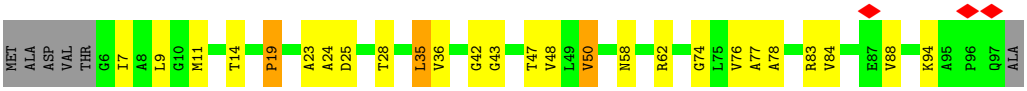
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KG:



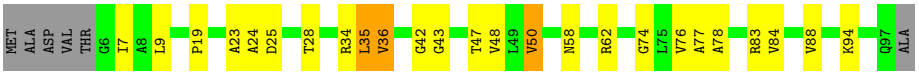
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KH:



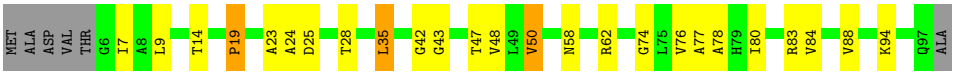
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KJ:



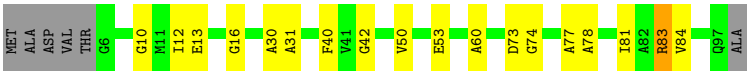
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KK:



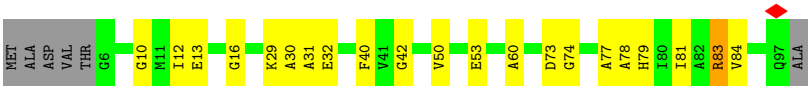
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LG:



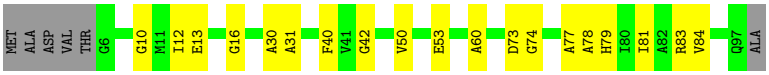
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LH:



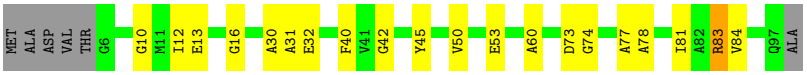
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LJ:



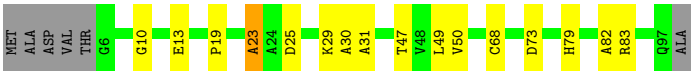
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LK:



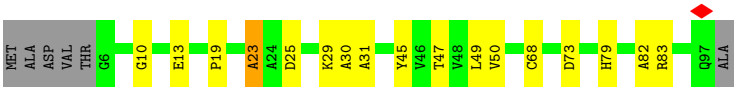
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MG:



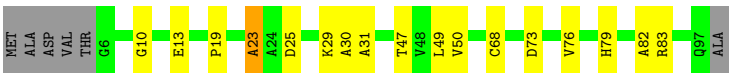
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MH:



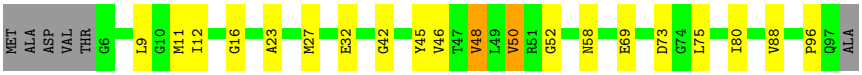
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MJ:

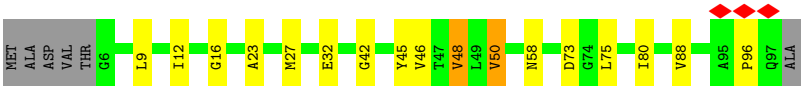


• Molecule 1: Major carboxysome shell protein CsoS1A

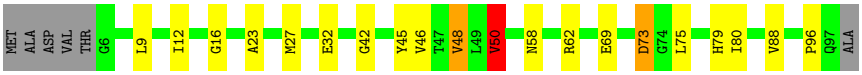
Chain NG:



• Molecule 1: Major carboxysome shell protein CsoS1A

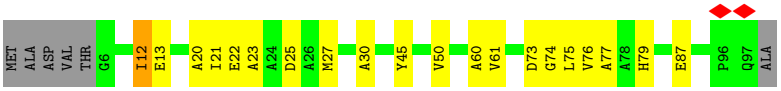


• Molecule 1: Major carboxysome shell protein CsoS1A

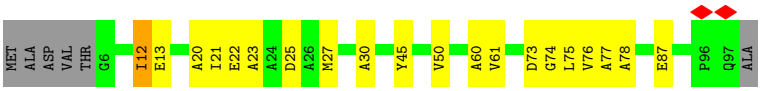


• Molecule 1: Major carboxysome shell protein CsoS1A

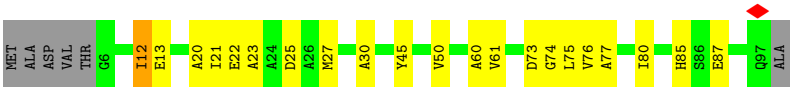
• Molecule 1: Major carboxysome shell protein CsoS1A



• Molecule 1: Major carboxysome shell protein CsoS1A

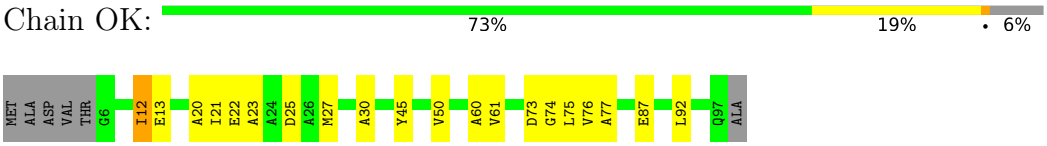


• Molecule 1: Major carboxysome shell protein CsoS1A



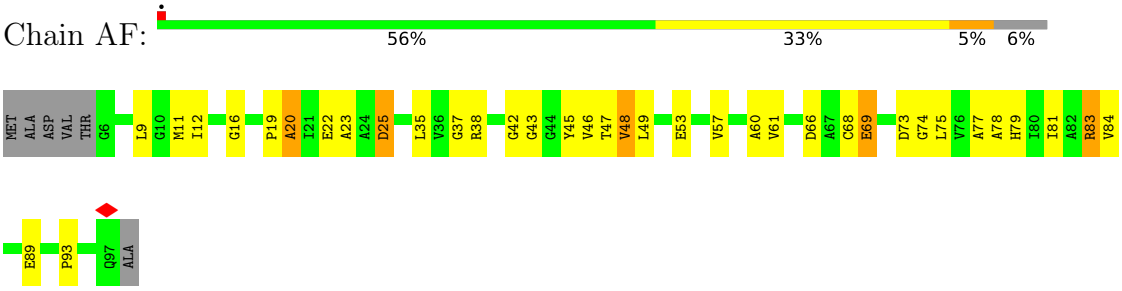
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OK:



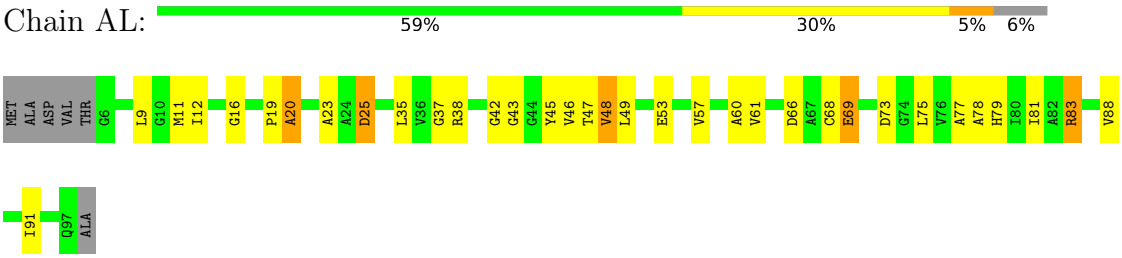
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AF:



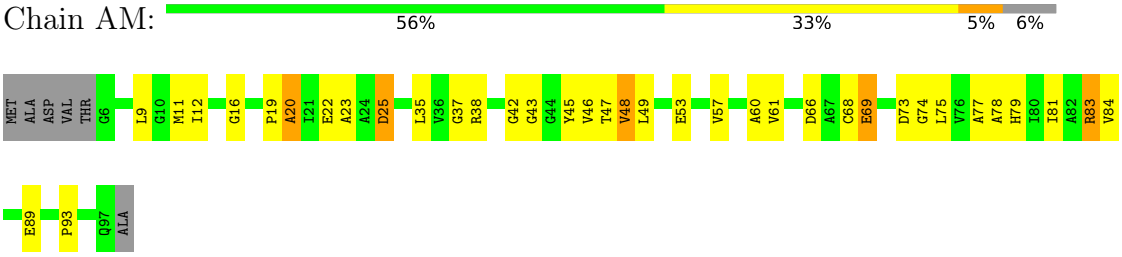
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AL:



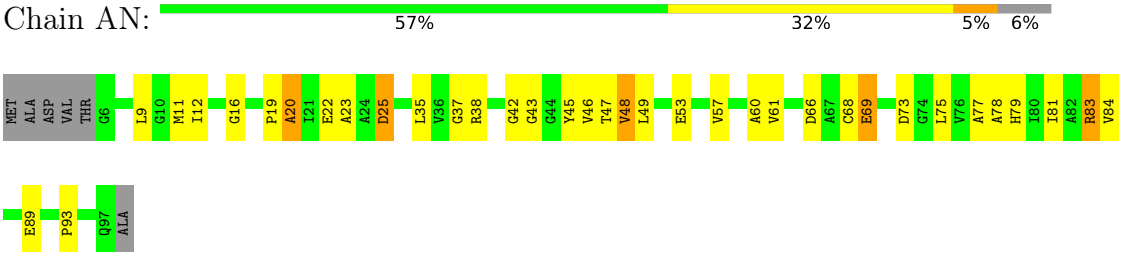
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AM:



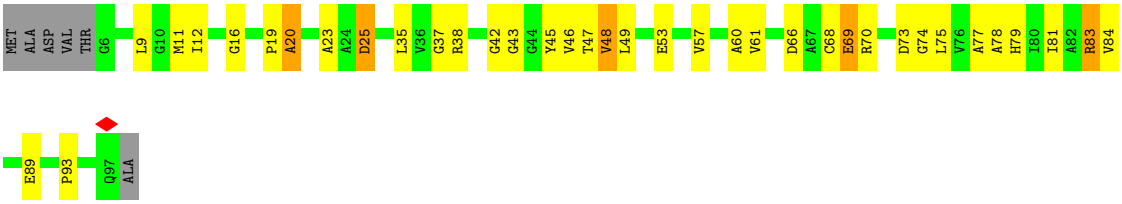
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AN:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AO:



• Molecule 1: Major carboxysome shell protein CsoS1A

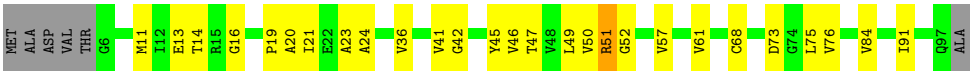
Chain BF:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BL:

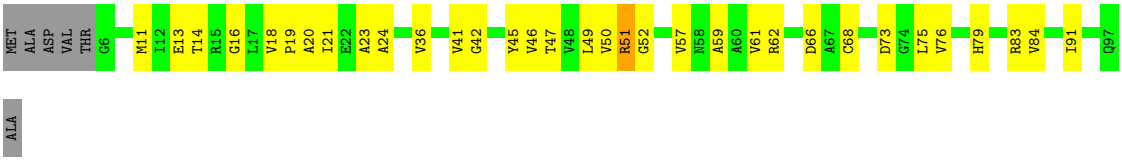
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BM:



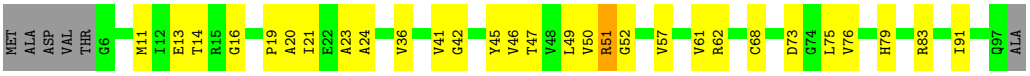
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BN:



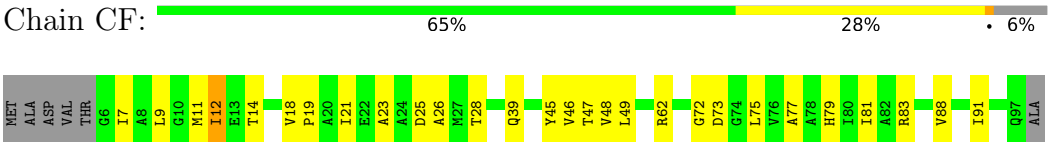
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BO:



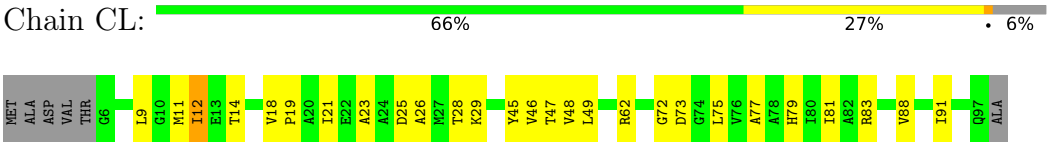
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CF:



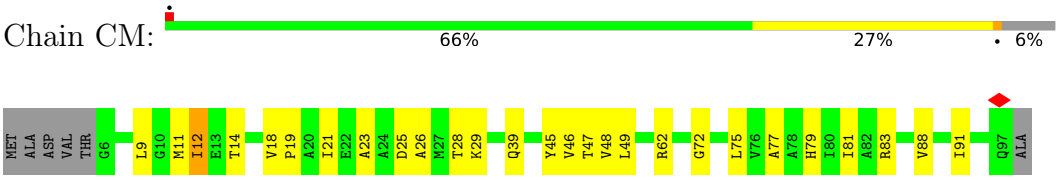
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CL:



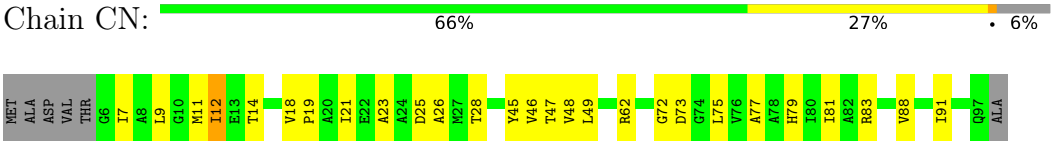
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CM:



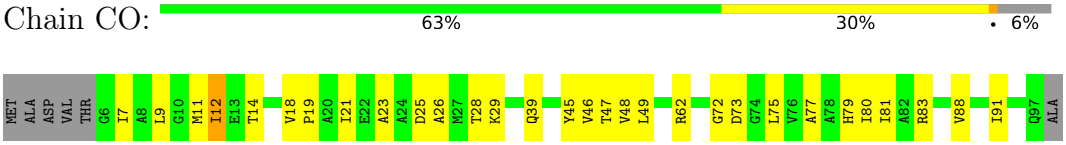
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CN:



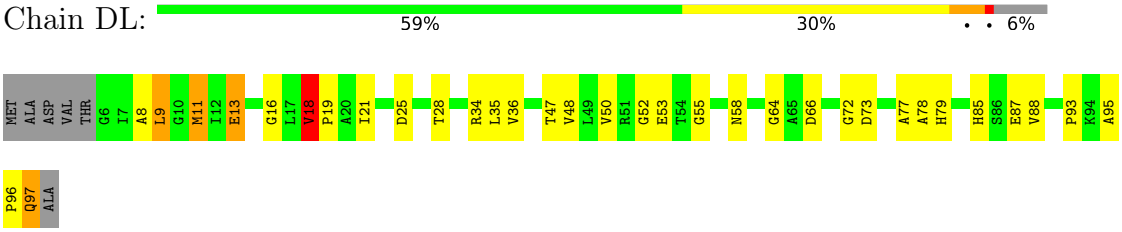
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CO:



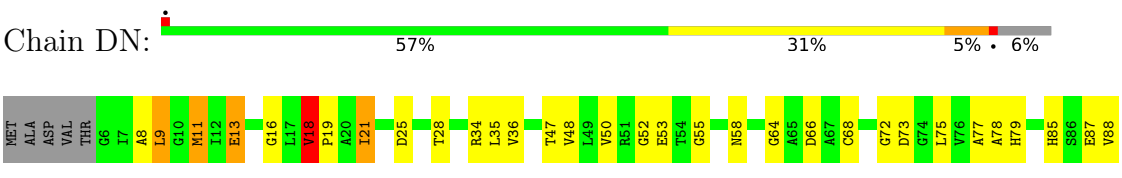
• Molecule 1: Major carboxysome shell protein CsoS1A

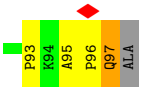
Chain DL:



• Molecule 1: Major carboxysome shell protein CsoS1A

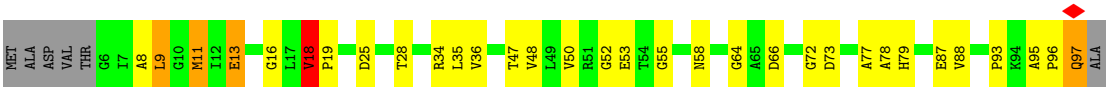
Chain DN:





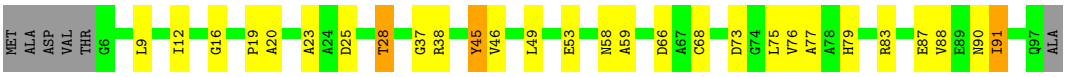
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DO:



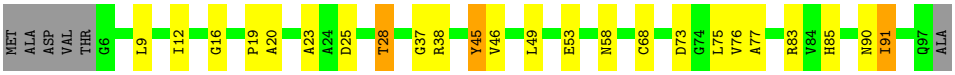
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EM:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EN:

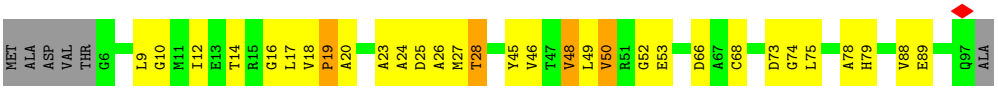


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EO:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FM:

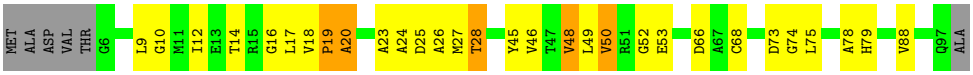


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FN:

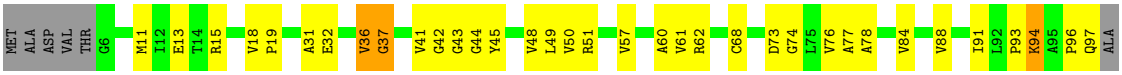
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FO:



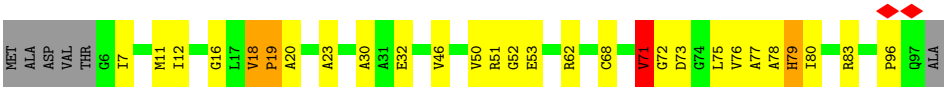
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GF:



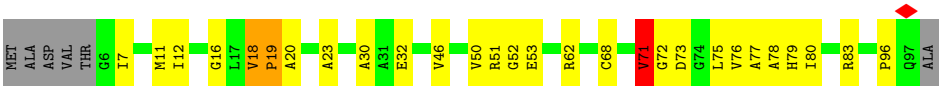
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GL:



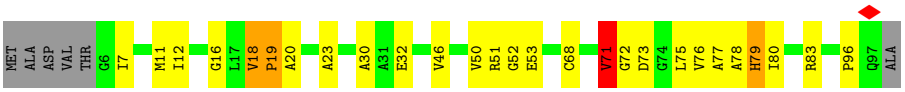
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GM:



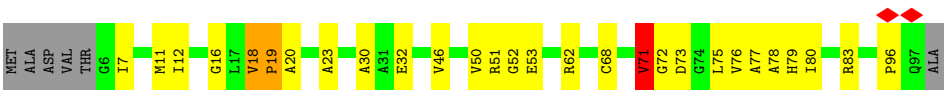
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GN:



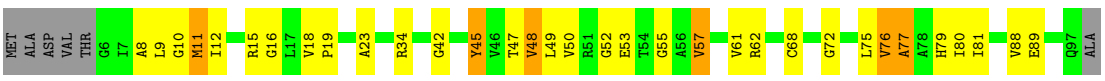
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GO:



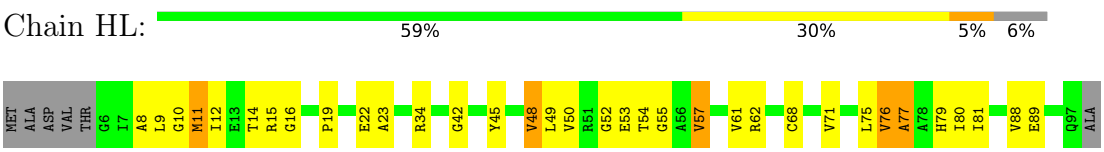
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HF:



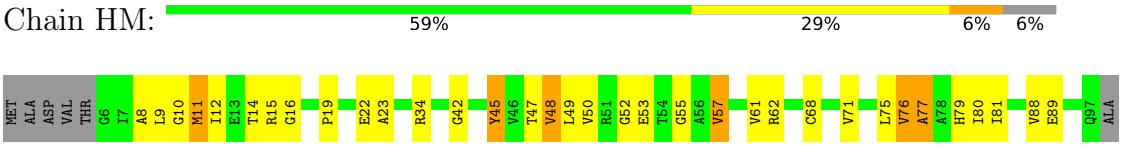
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HL:



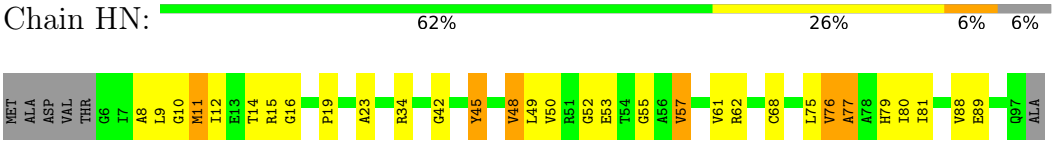
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HM:



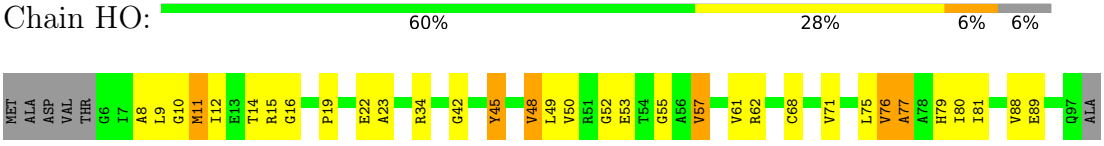
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HN:



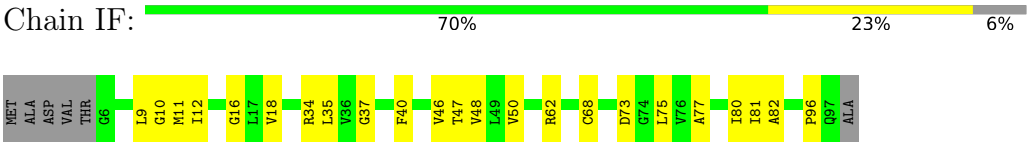
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HO:



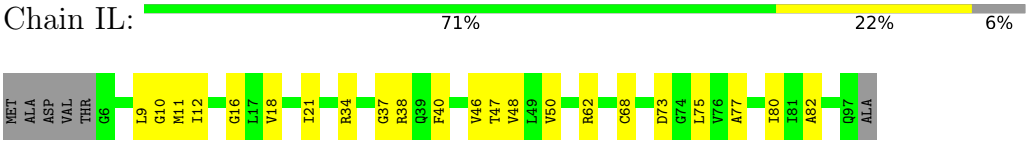
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IF:



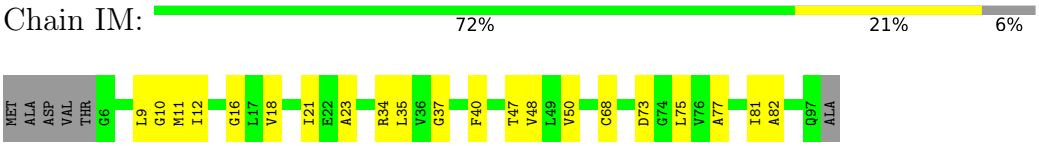
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IL:



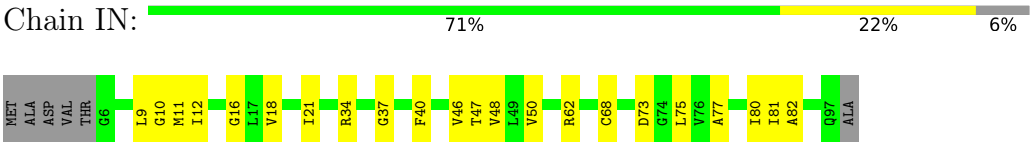
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IM:



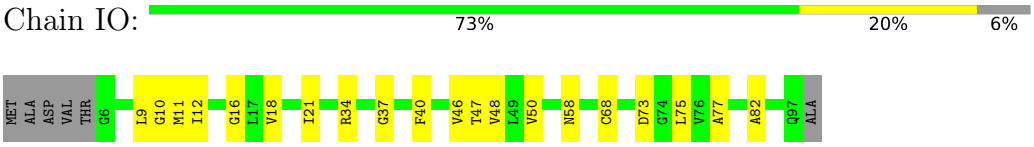
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IN:



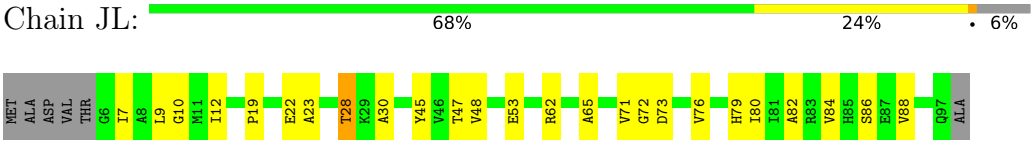
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IO:



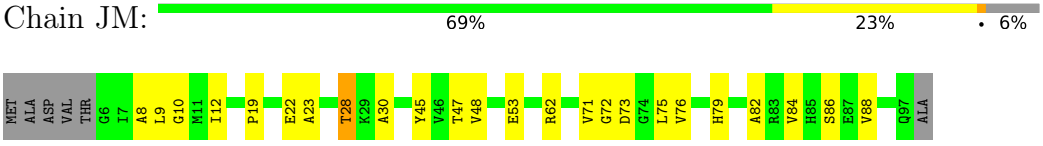
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JL:



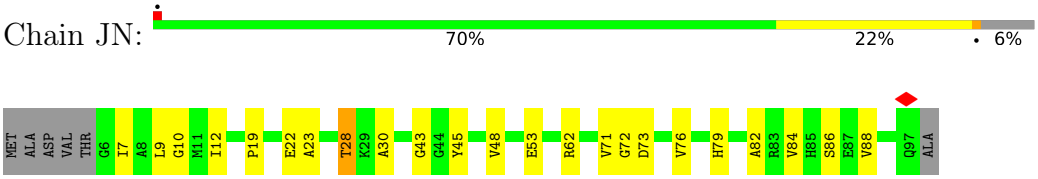
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JM:



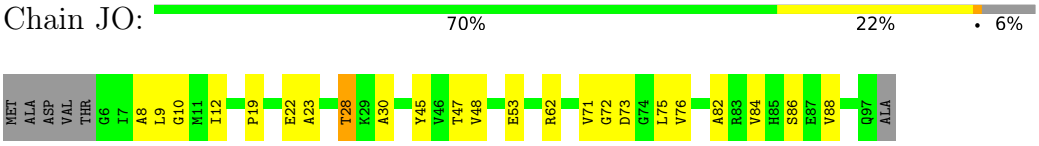
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JN:



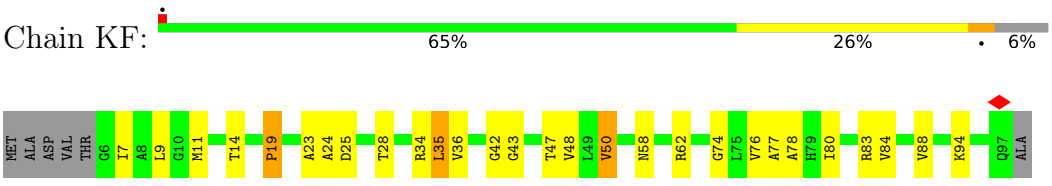
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JO:



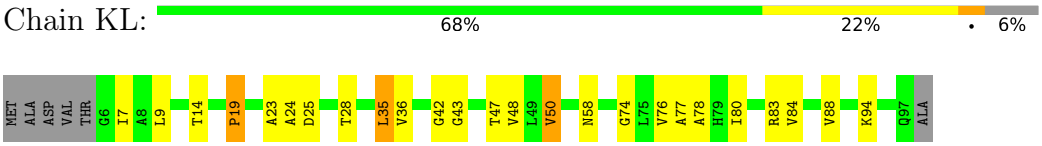
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KF:



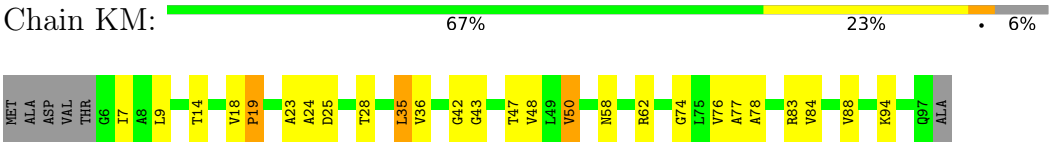
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KL:



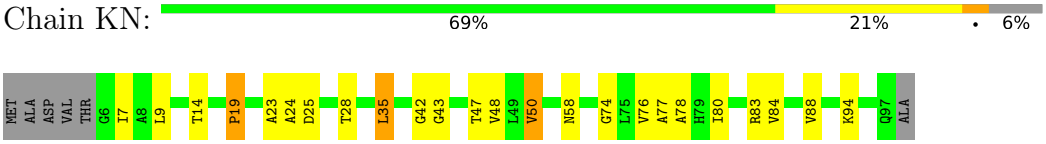
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KM:



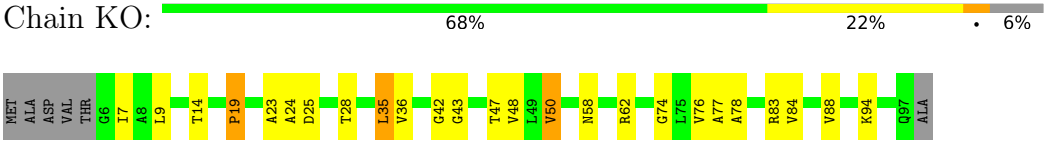
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KN:



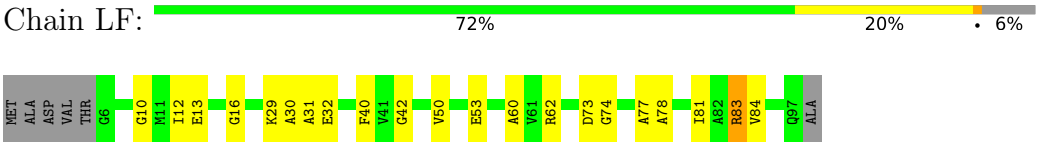
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KO:



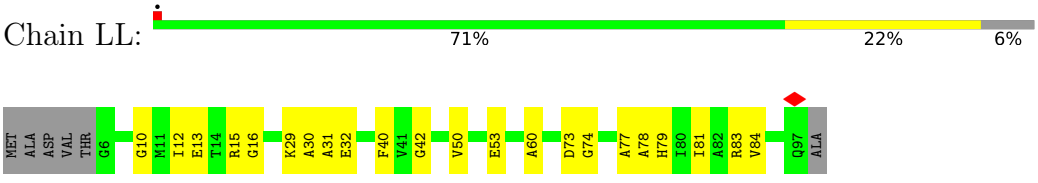
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LF:



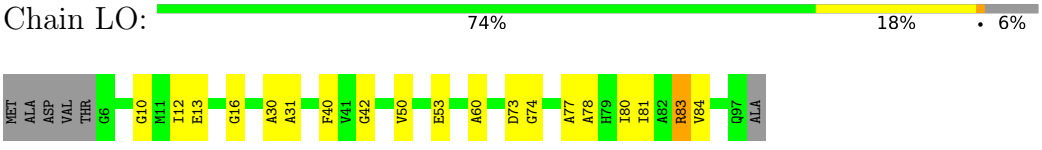
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LL:



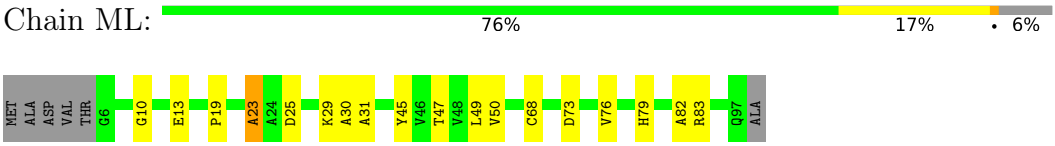
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LO:



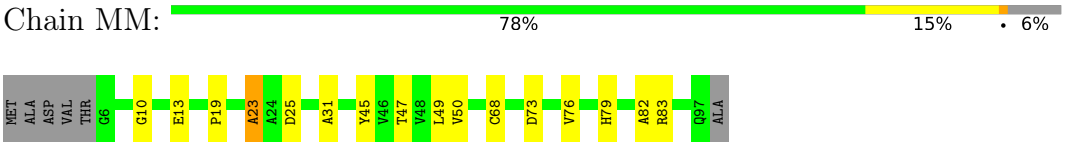
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain ML:



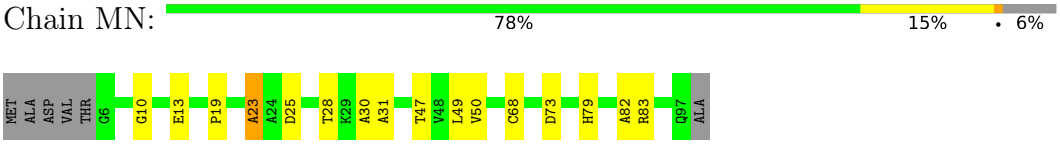
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MM:



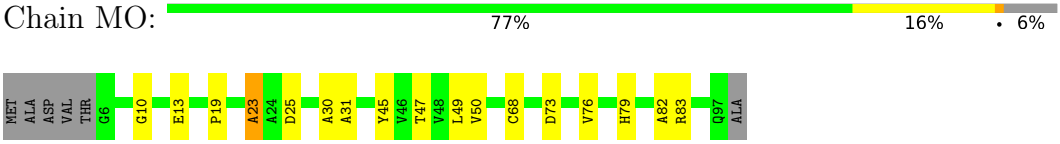
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MN:



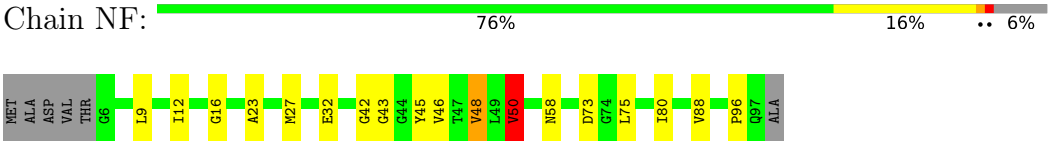
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MO:



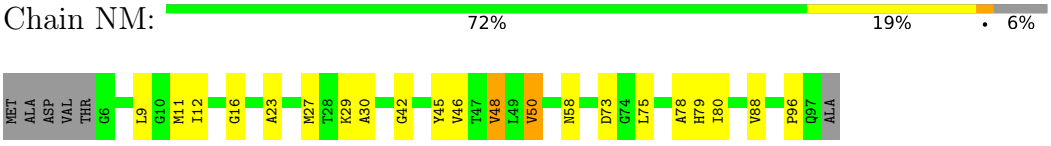
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NF:



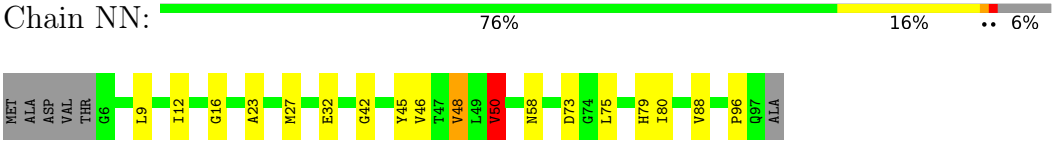
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NM:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NN:



• Molecule 1: Major carboxysome shell protein CsoS1A

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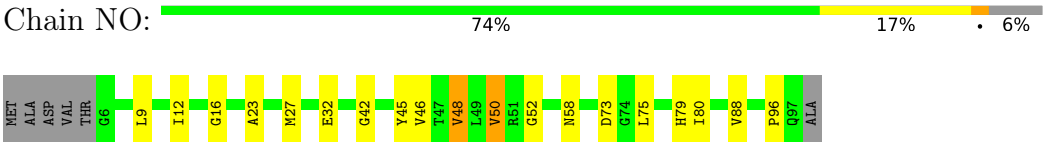

• Molecule 1: Major carboxysome shell protein CsoS1A

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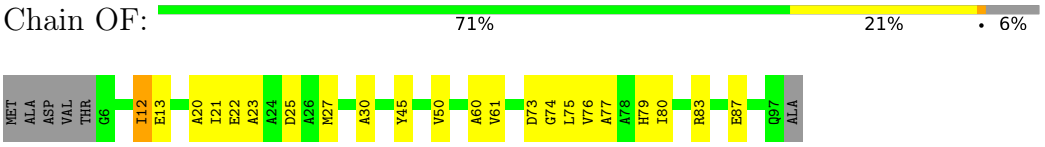
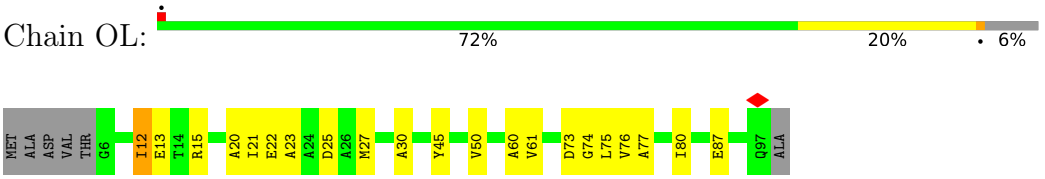


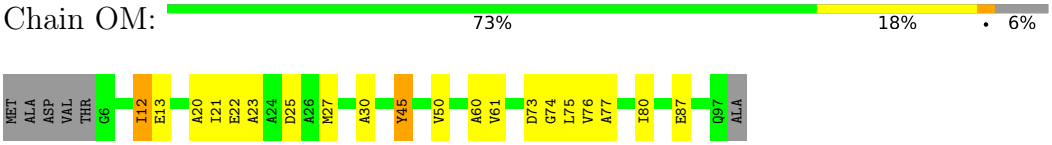
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OL:



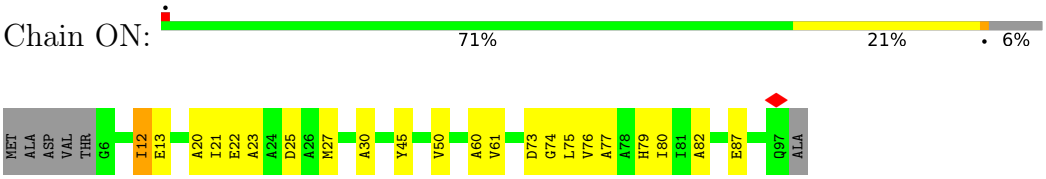
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OM:



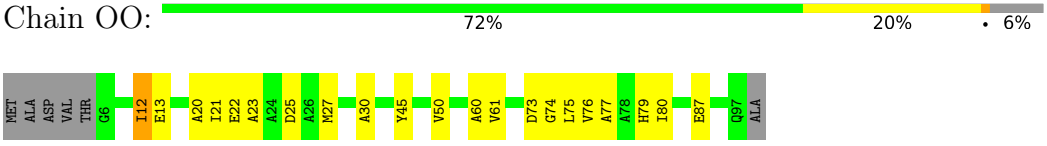
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain ON:



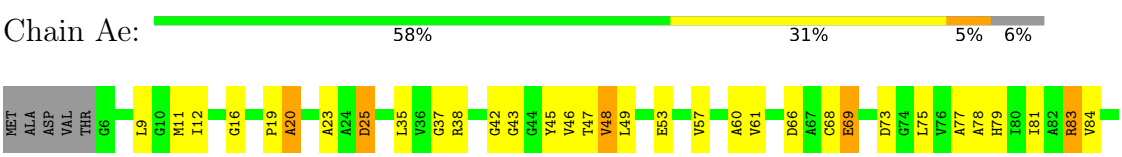
• Molecule 1: Major carboxysome shell protein CsoS1A

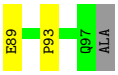
Chain OO:



• Molecule 1: Major carboxysome shell protein CsoS1A

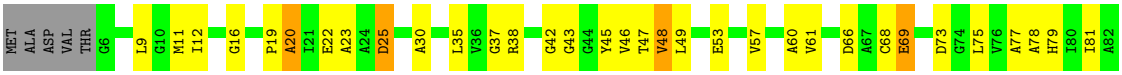
Chain Ae:

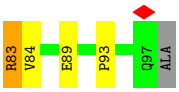




• Molecule 1: Major carboxysome shell protein CsoS1A

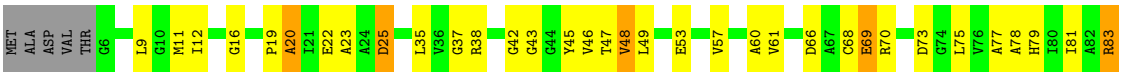
Chain Af:





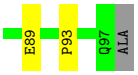
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ag:



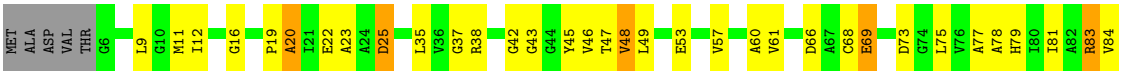
• Molecule 1: Major carboxysome shell protein CsoS1A

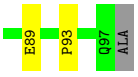
Chain Ah:



• Molecule 1: Major carboxysome shell protein CsoS1A

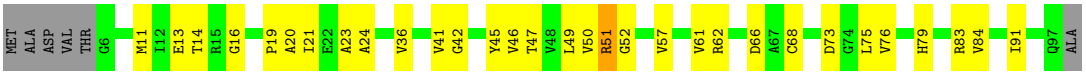
Chain Ai:





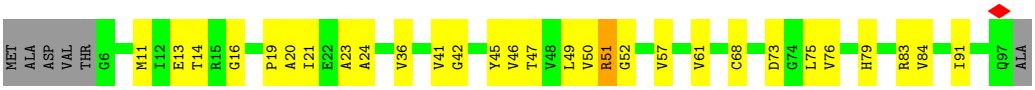
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Be:



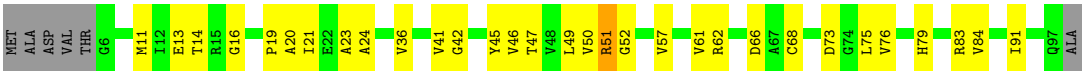
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bf:



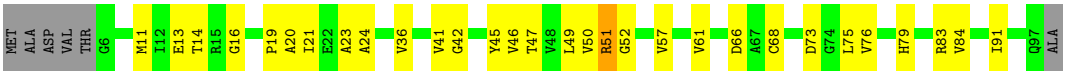
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bg:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bh:



• Molecule 1: Major carboxysome shell protein CsoS1A

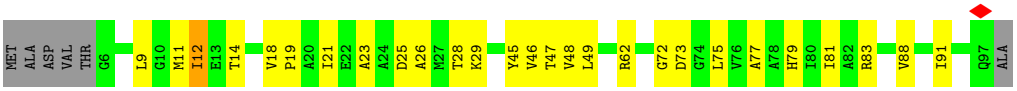
Chain Bi:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ce:

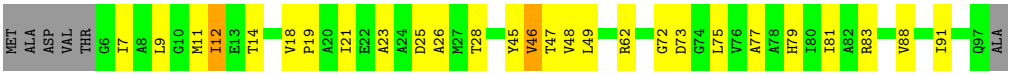
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cf:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cg:



• Molecule 1: Major carboxysome shell protein CsoS1A

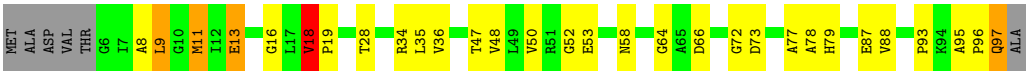
Chain Ch:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ci:

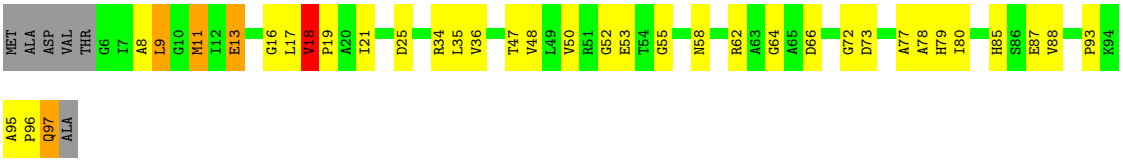
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain De:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dg:

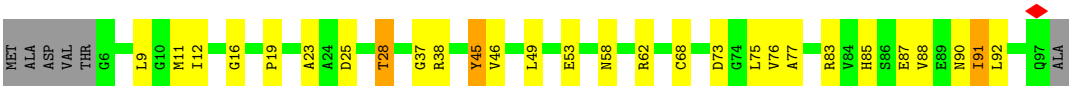


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Di:

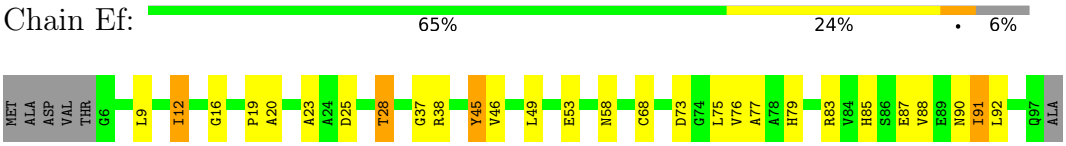
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ee:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ef:



• Molecule 1: Major carboxysome shell protein CsoS1A

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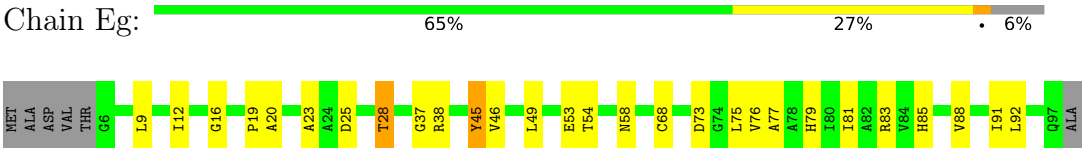
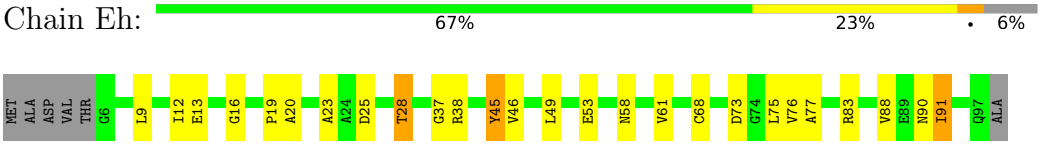


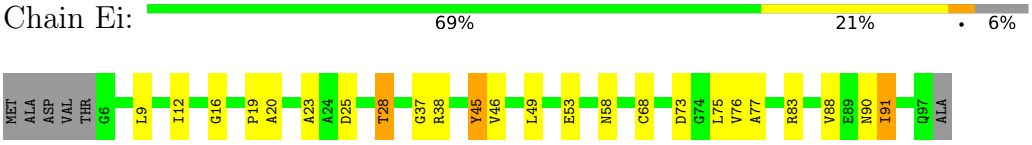
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Eh:



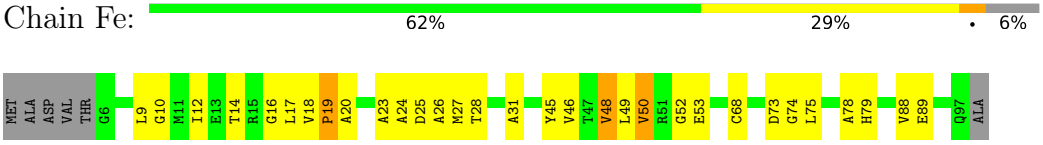
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ei:



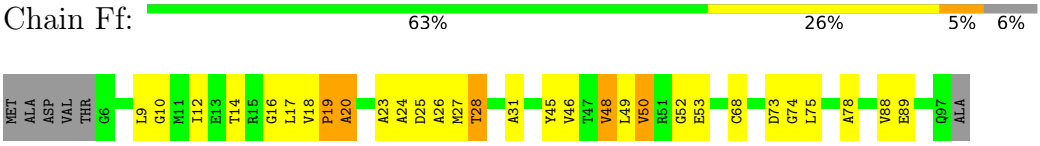
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fe:



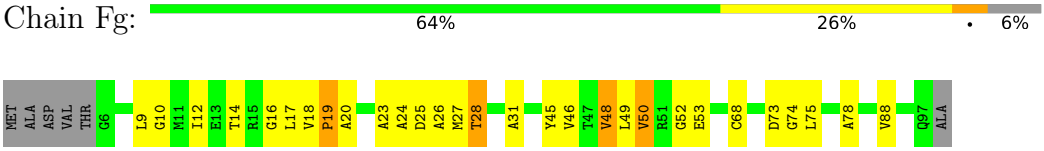
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ff:



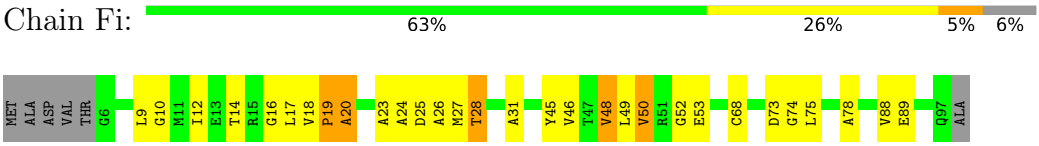
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fg:



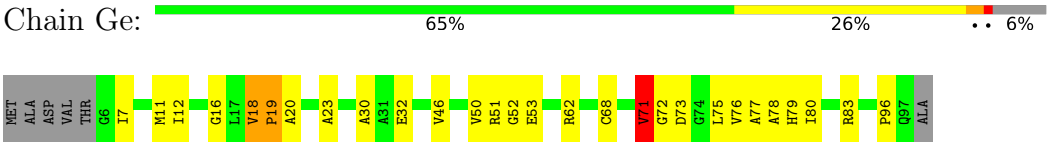
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fi:



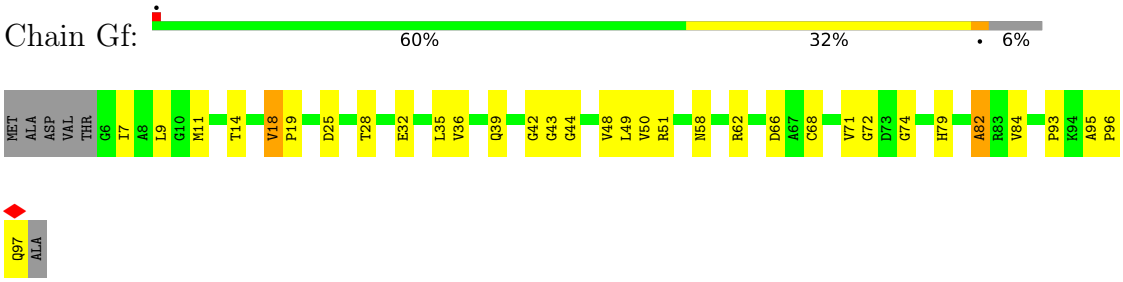
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ge:



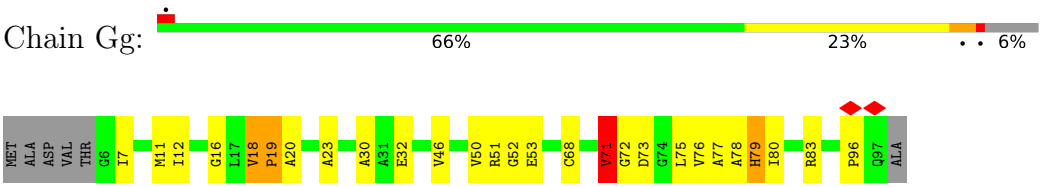
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gf:



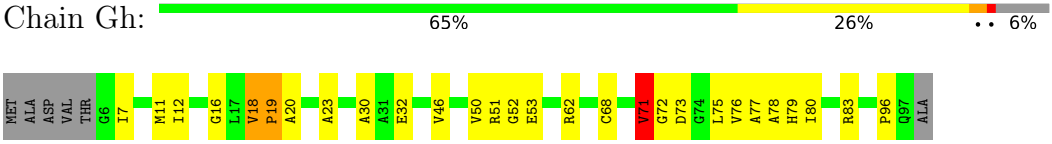
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gg:



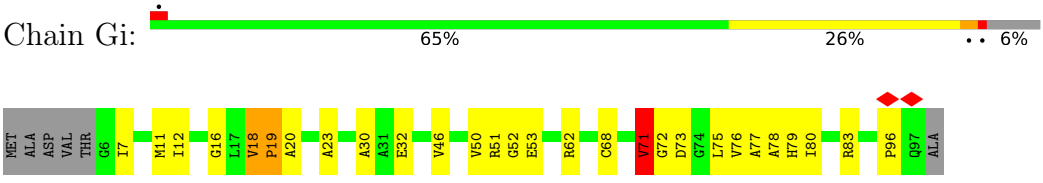
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gh:



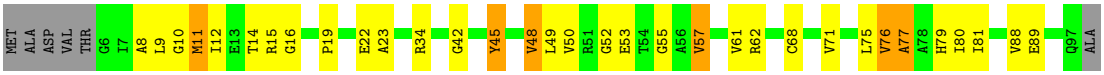
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gi:



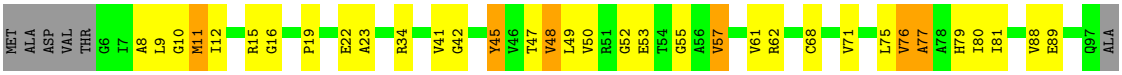
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain He:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hf:

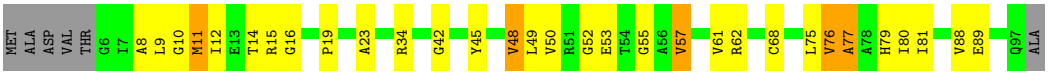


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hg:

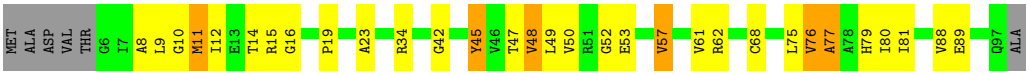
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hh:



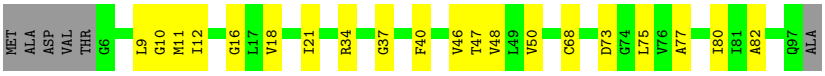
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hi:



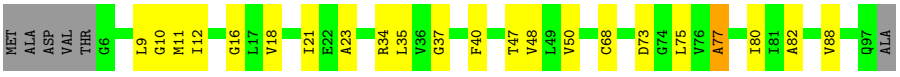
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ie:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain If:



• Molecule 1: Major carboxysome shell protein CsoS1A

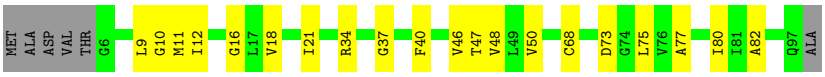
Chain Ig:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ih:

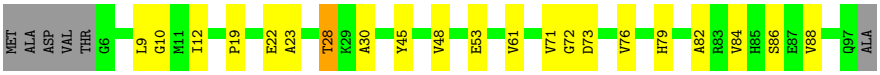
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ii:



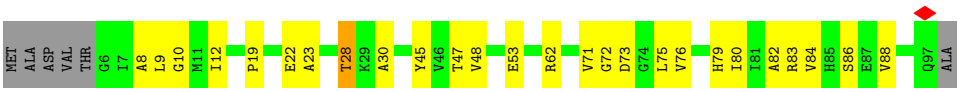
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Je:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jf:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jg:

• Molecule 1: Major carboxysome shell protein CsoS1A

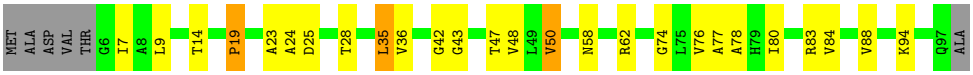
Chain Jh:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ji:

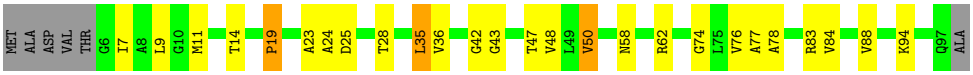
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ke:



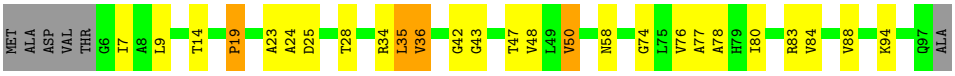
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kf:



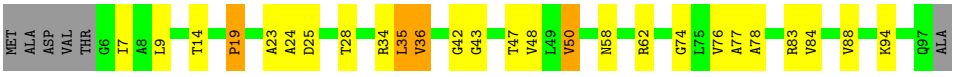
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kg:



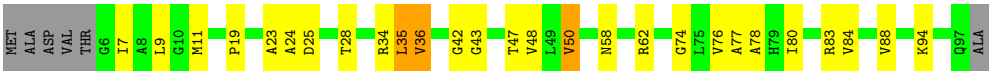
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kh:



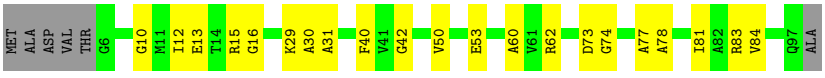
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ki:



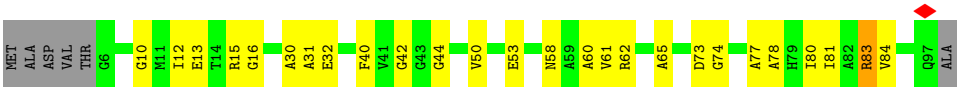
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Le:



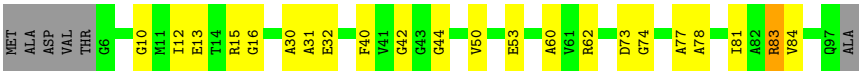
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lf:



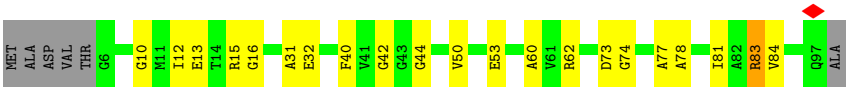
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lg:



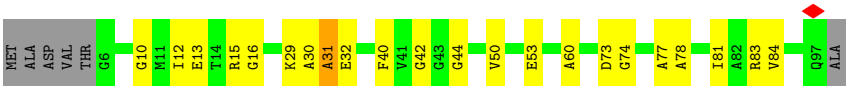
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lh:



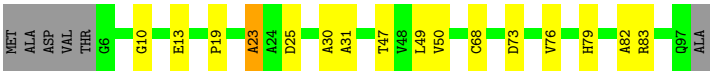
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Li:



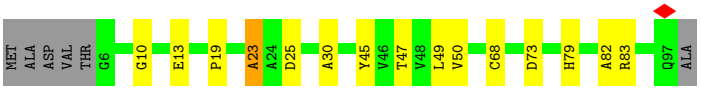
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Me:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mf:

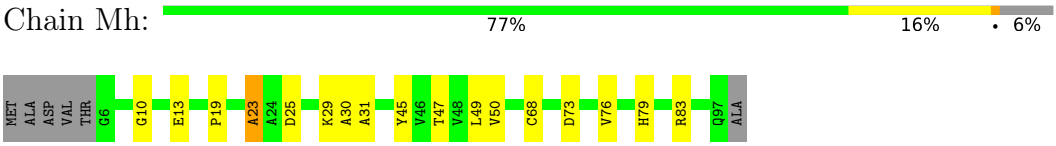


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mg:

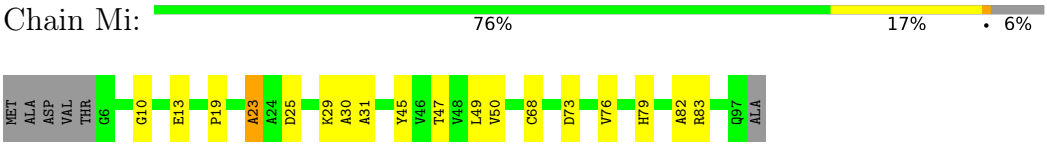
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mh:



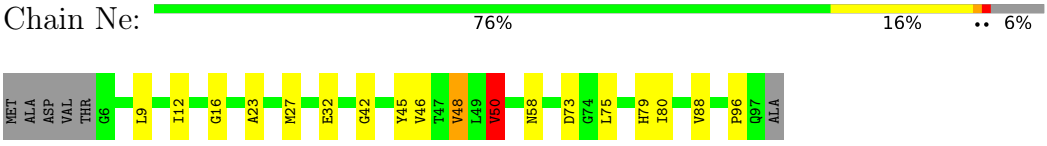
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mi:



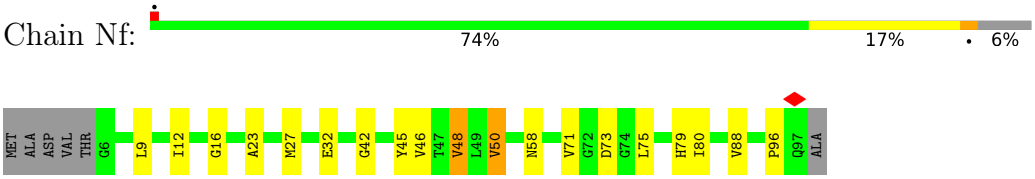
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ne:



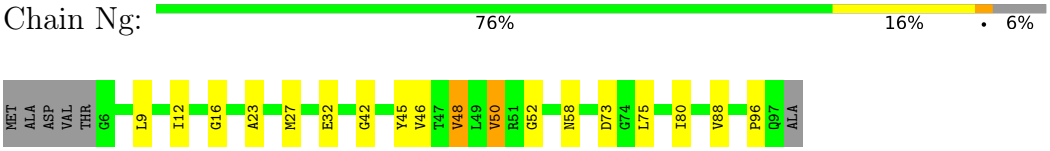
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nf:



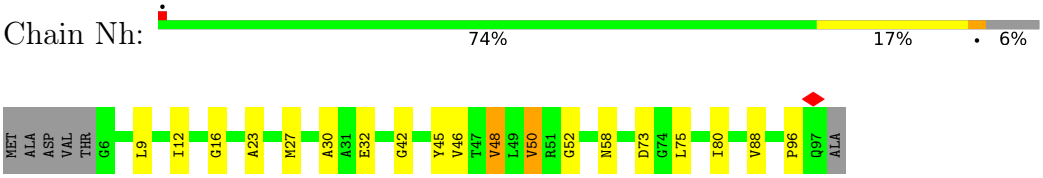
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ng:



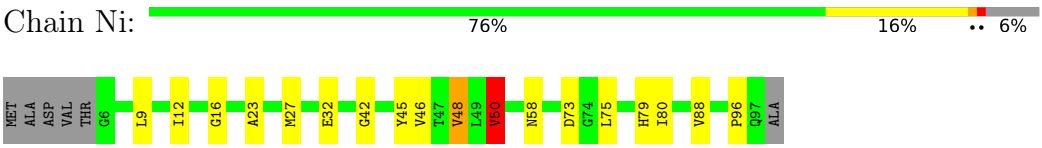
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nh:



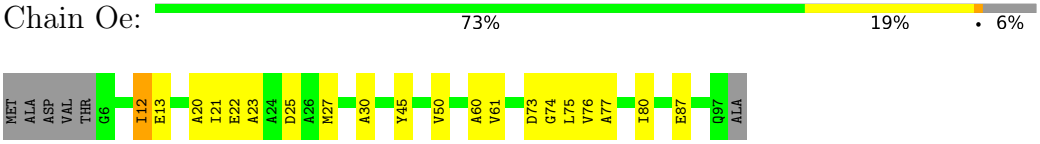
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ni:



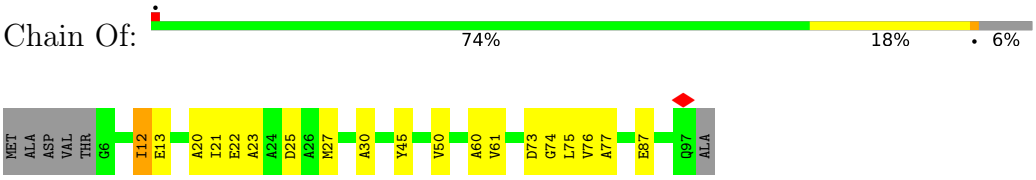
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Oe:



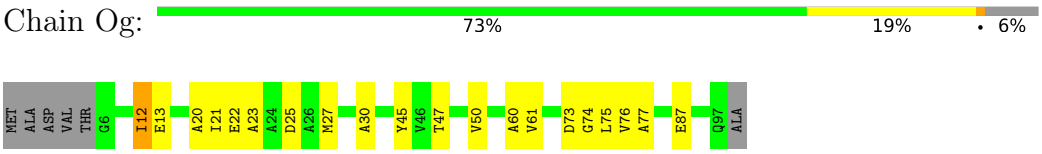
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Of:



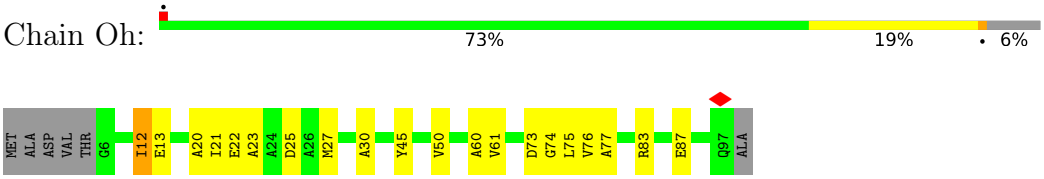
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Og:



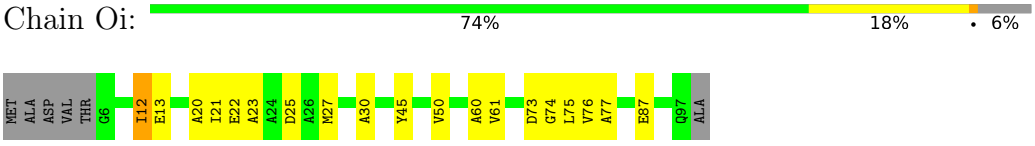
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Oh:



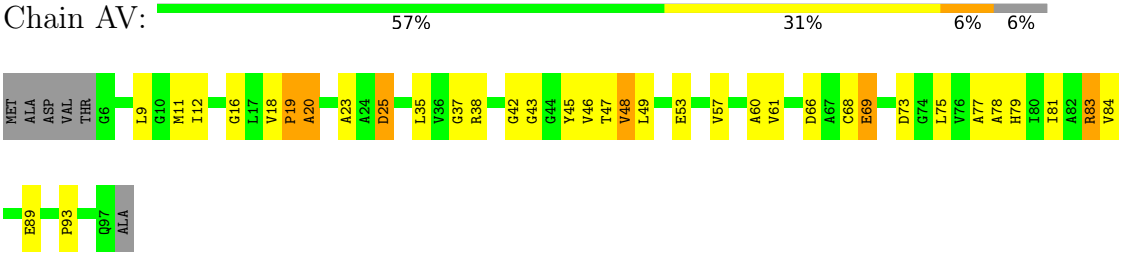
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Oi:



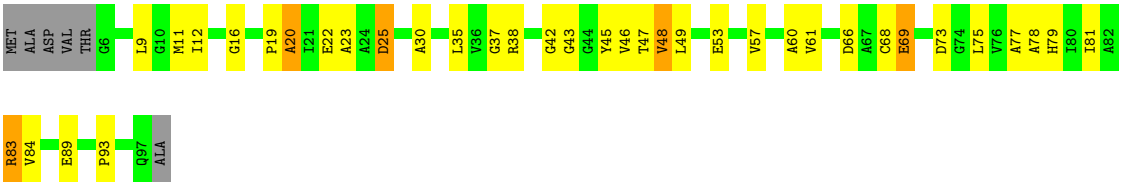
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AV:



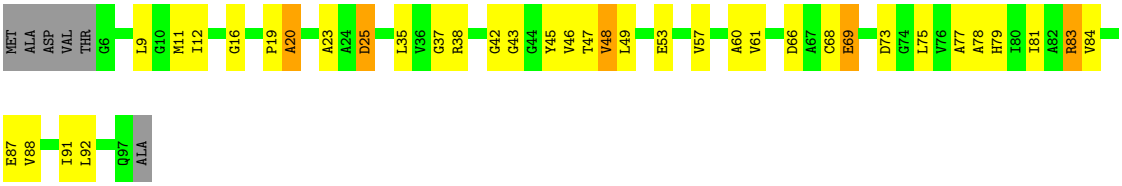
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AW:



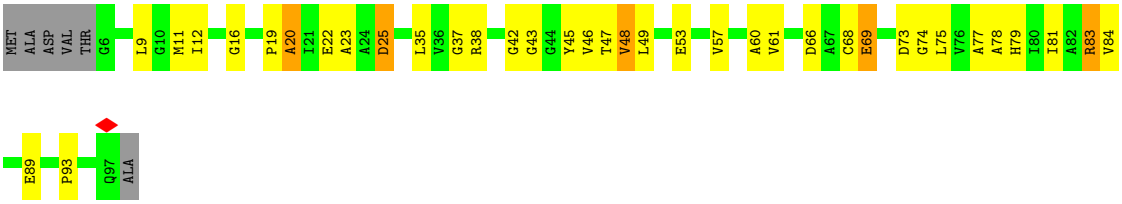
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AX:



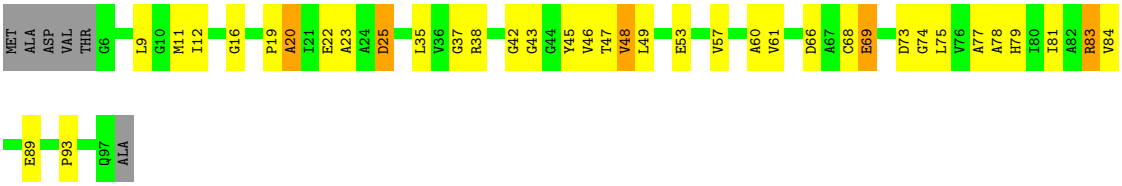
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AY:



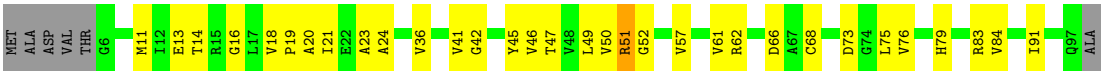
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AZ:



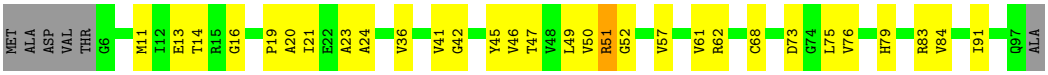
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BV:



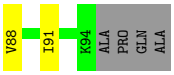
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BW:



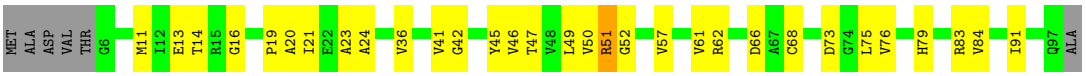
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BX:



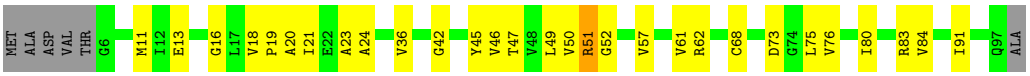
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BY:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BZ:

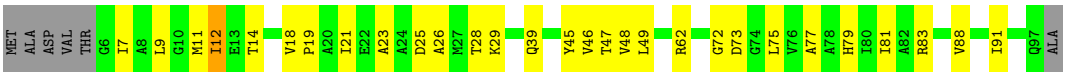


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CV:

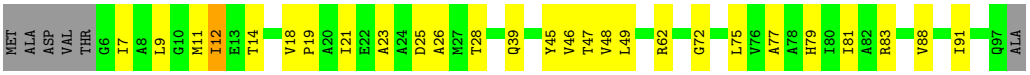
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CW:



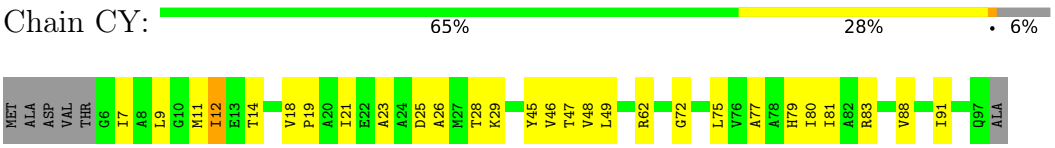
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CX:



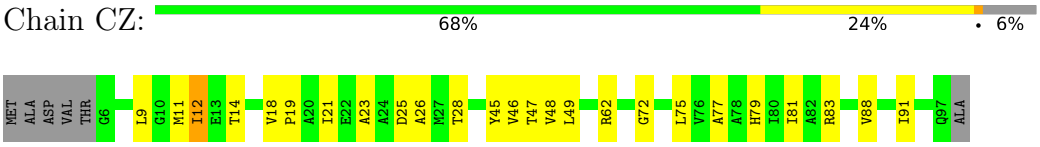
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CY:



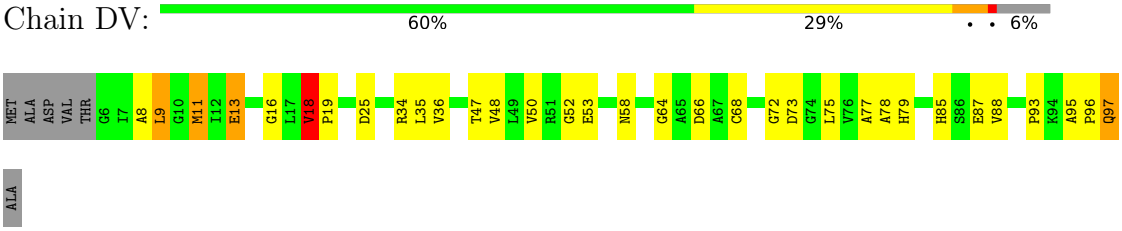
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CZ:



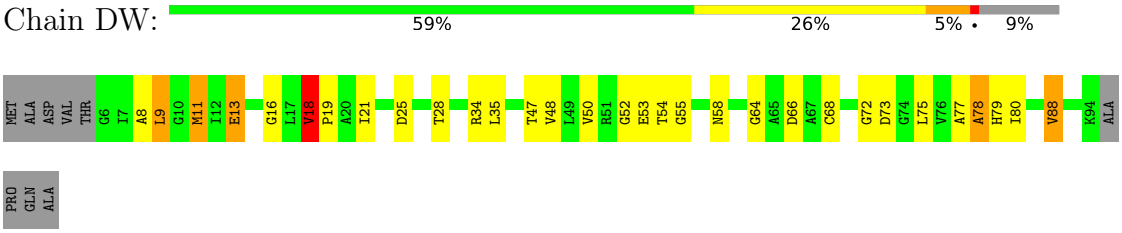
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DV:



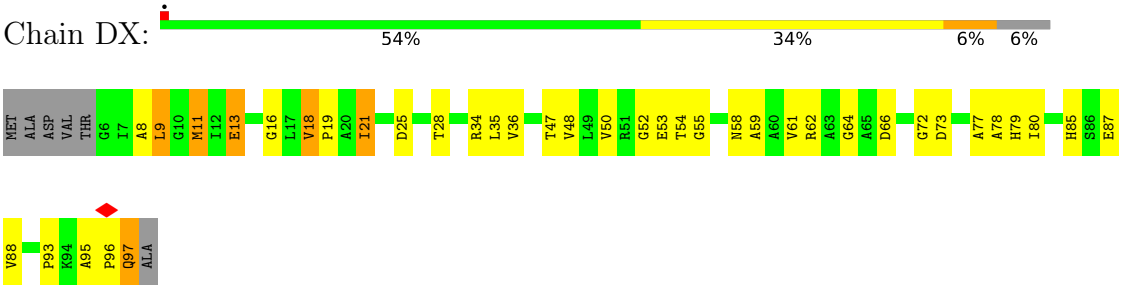
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DW:



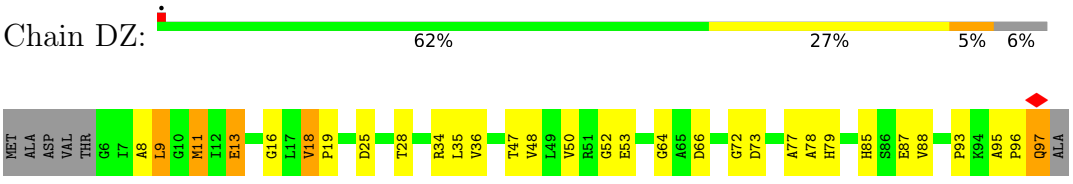
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DX:



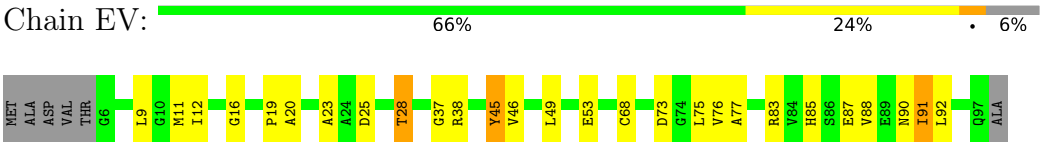
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DZ:



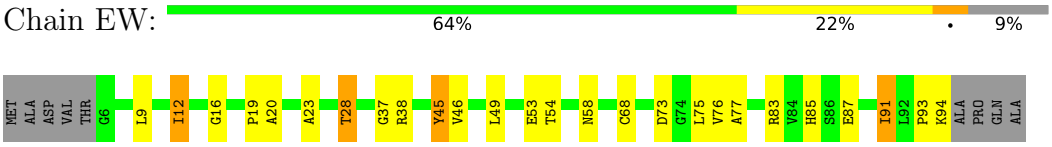
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EV:



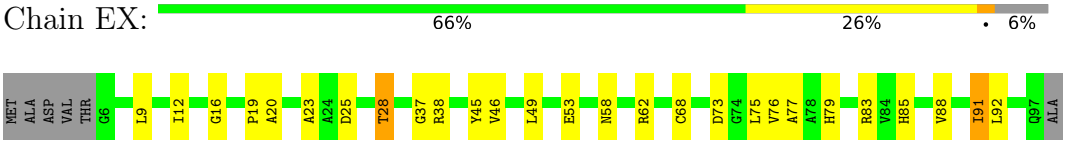
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EW:



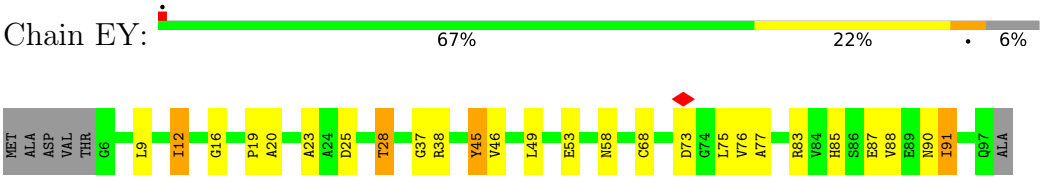
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EX:



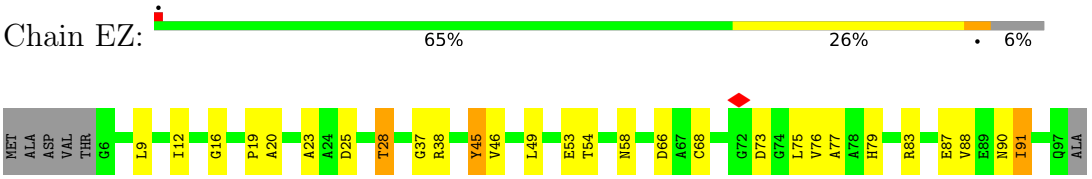
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EY:



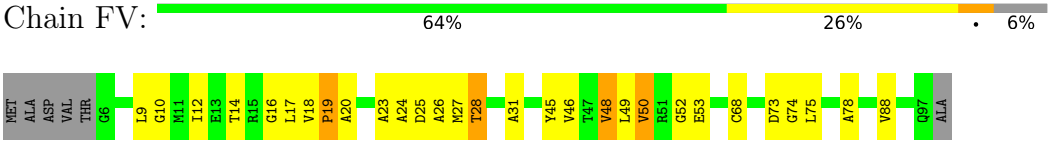
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EZ:



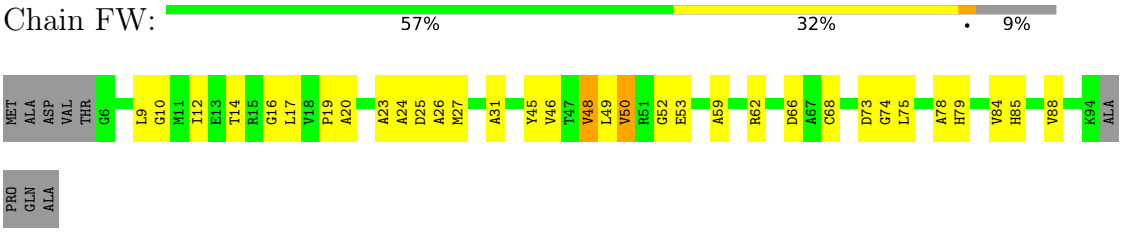
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FV:



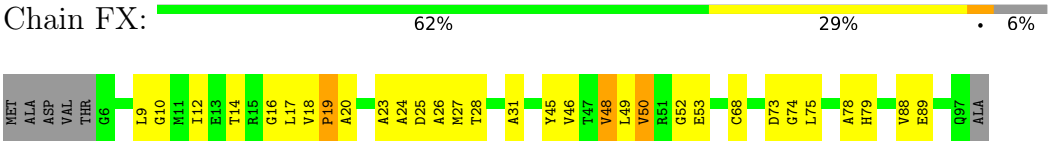
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FW:



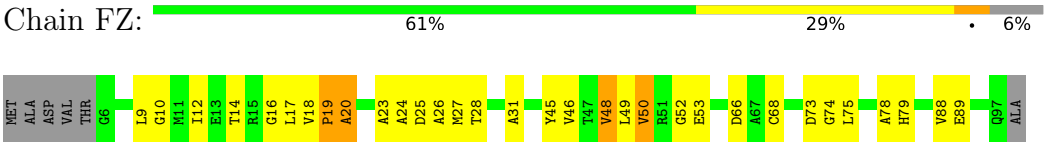
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FX:



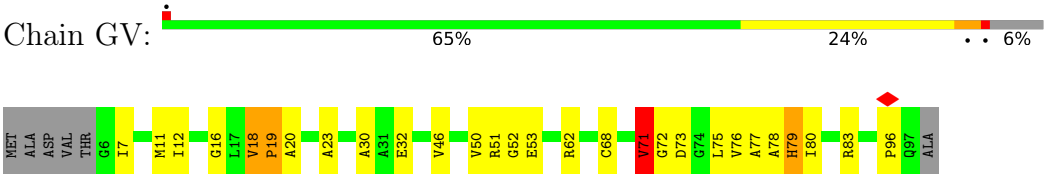
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FZ:



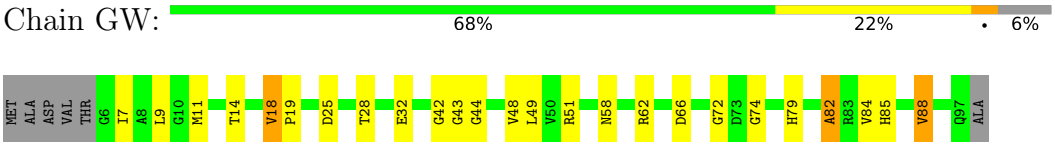
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GV:



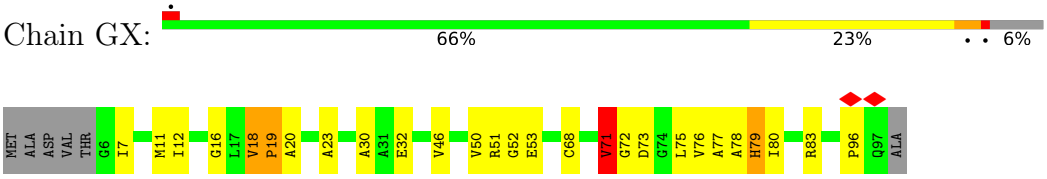
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GW:



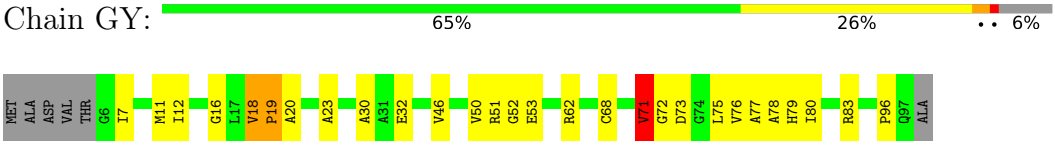
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GX:



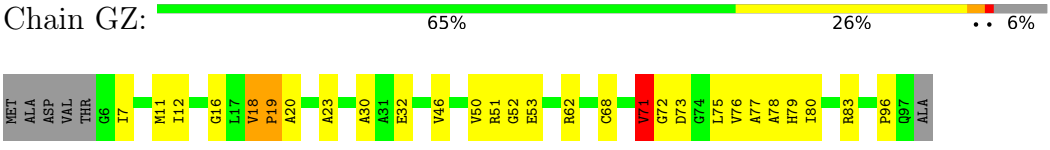
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GY:



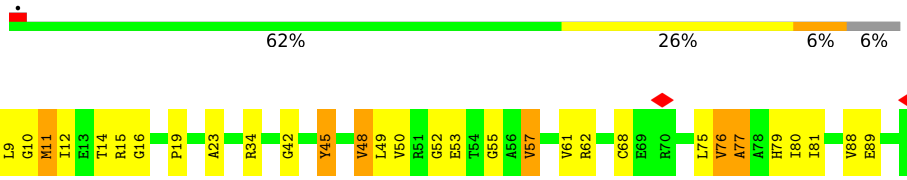
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GZ:



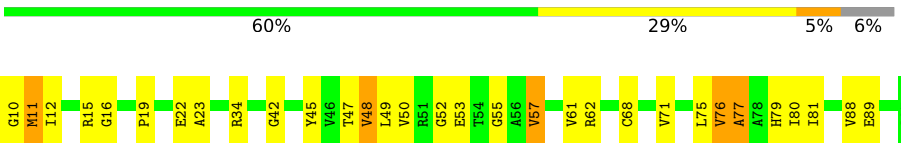
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HV:



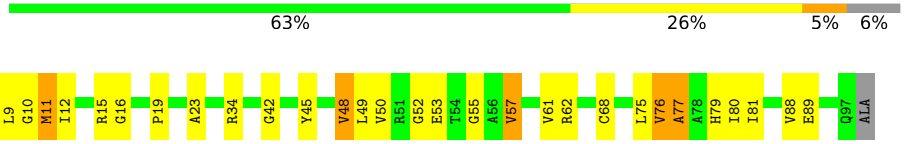
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HW:



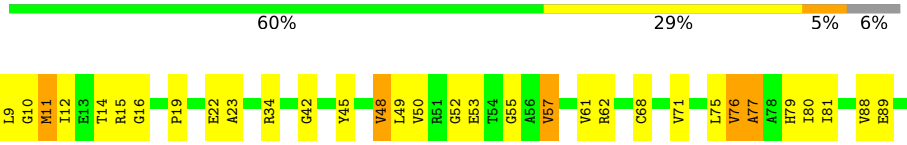
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HX:



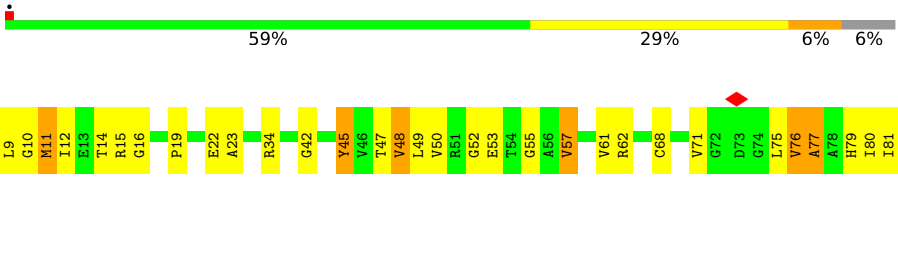
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HY:



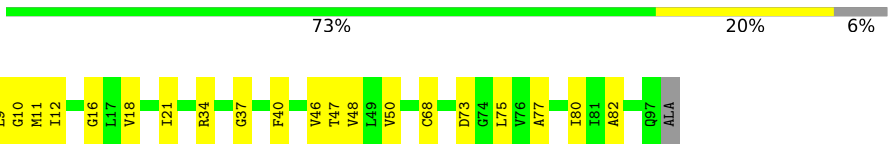
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HZ:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IV:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IW:

• Molecule 1: Major carboxysome shell protein CsoS1A

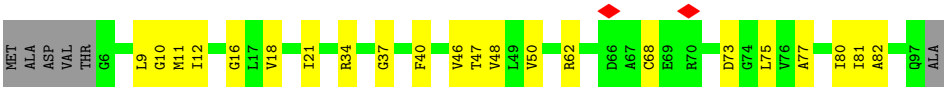
Chain IX:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IY:

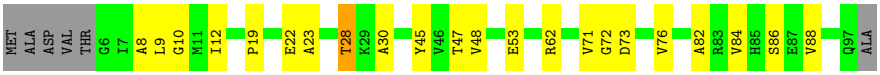
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IZ:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JV:



• Molecule 1: Major carboxysome shell protein CsoS1A

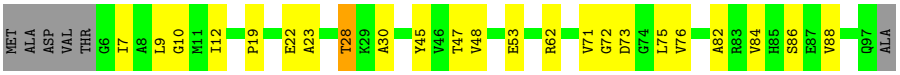
Chain JW:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JX:

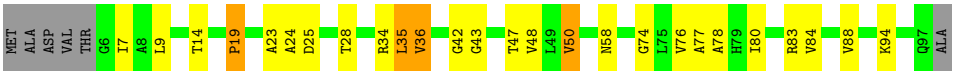
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JZ:



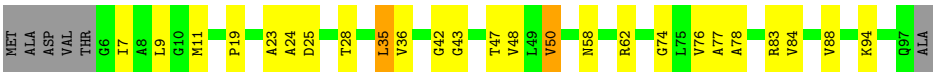
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KV:



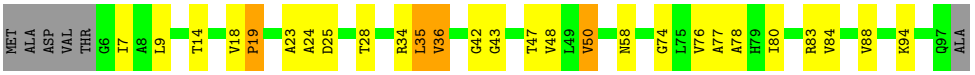
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KW:



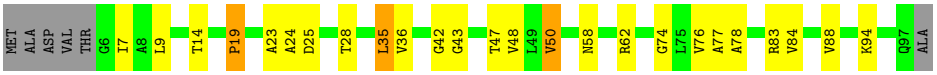
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KX:



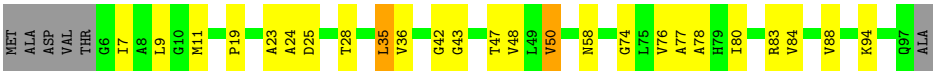
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KY:



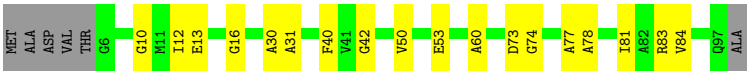
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KZ:



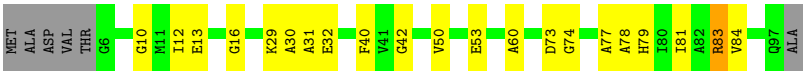
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LV:



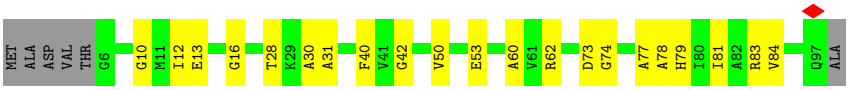
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LW:



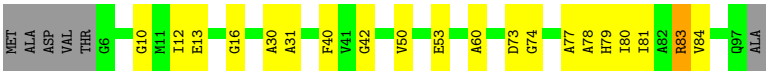
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LX:



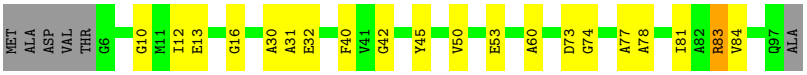
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LY:



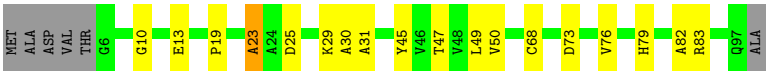
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LZ:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MV:

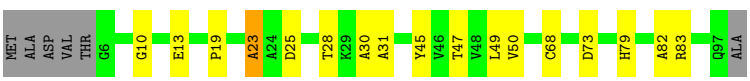


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MW:

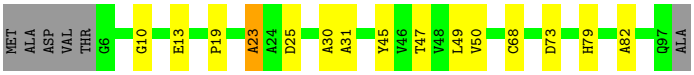
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MX:



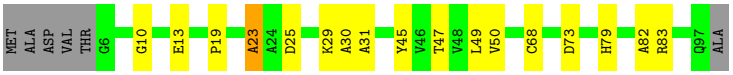
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MY:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MZ:

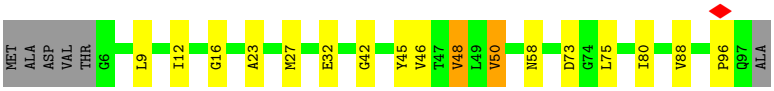


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NV:

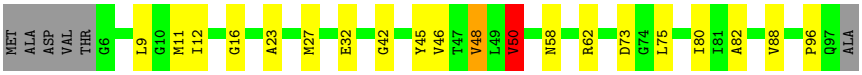
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NW:



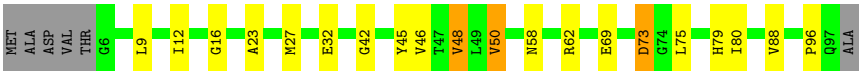
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NX:



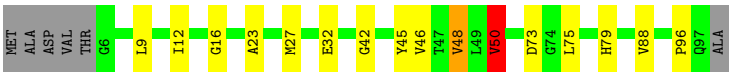
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NY:



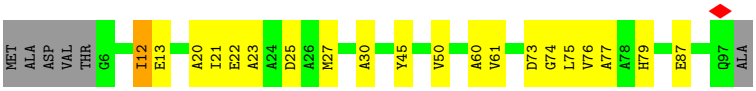
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NZ:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OV:

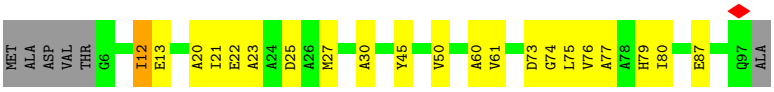


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OW:

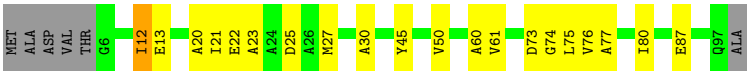
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OX:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OY:

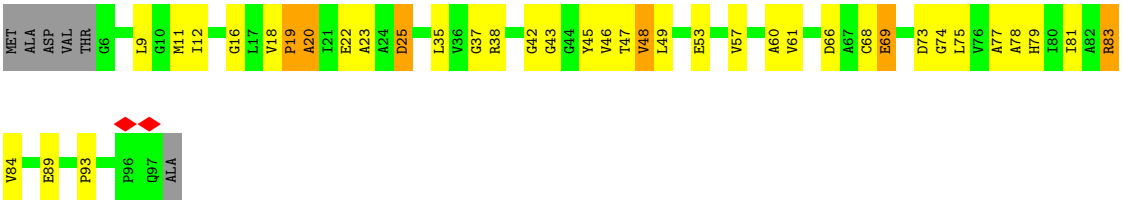


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OZ:

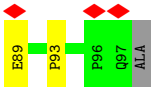
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain AU:



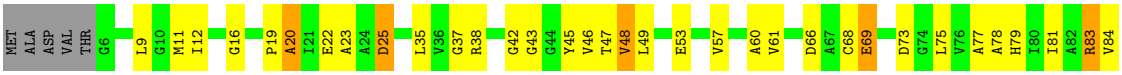
• Molecule 1: Major carboxysome shell protein CsoS1A

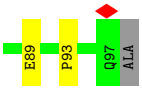
Chain Aa:



• Molecule 1: Major carboxysome shell protein CsoS1A

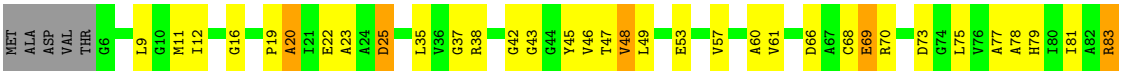
Chain Ab:

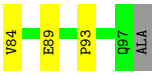




• Molecule 1: Major carboxysome shell protein CsoS1A

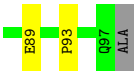
Chain Ac:





• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ad:

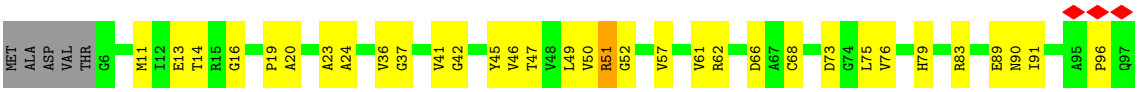


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain BU:

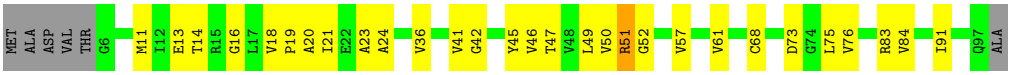
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ba:



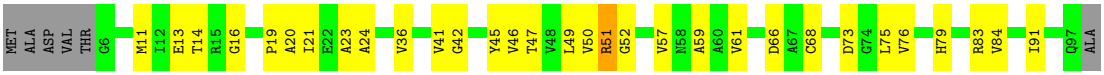
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bb:



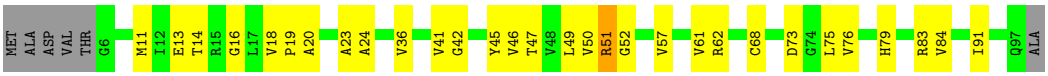
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bc:



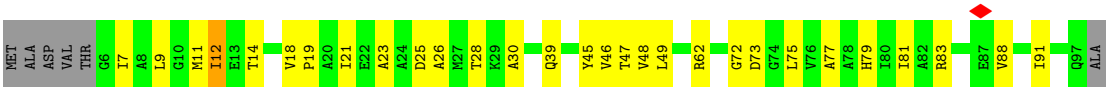
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bd:



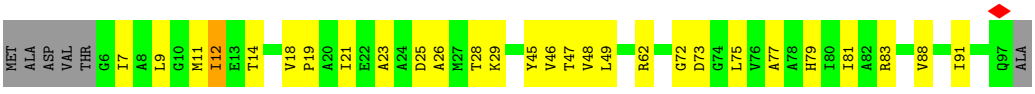
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain CU:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ca:

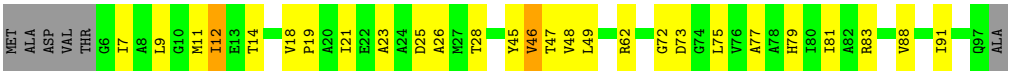


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cb:

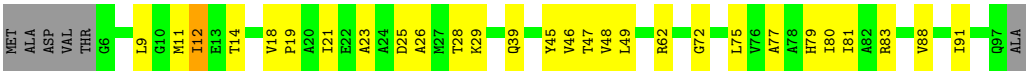
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cc:



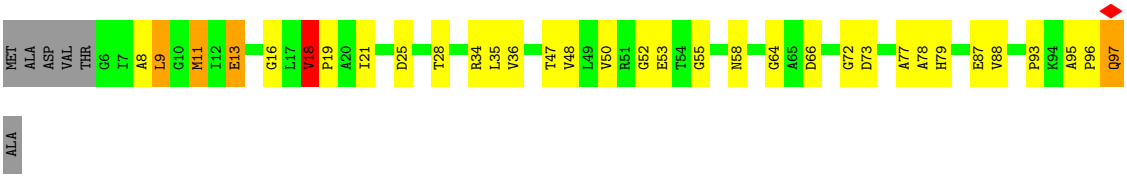
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cd:



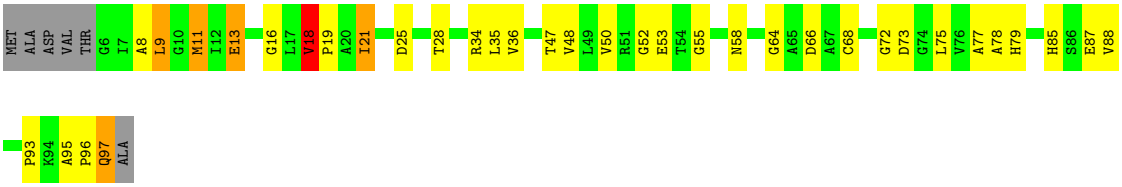
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Da:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dc:

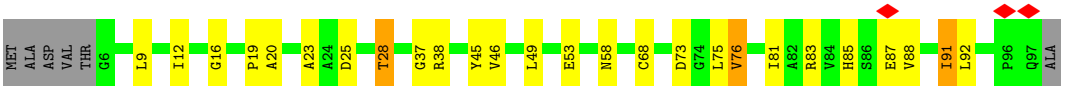


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dd:

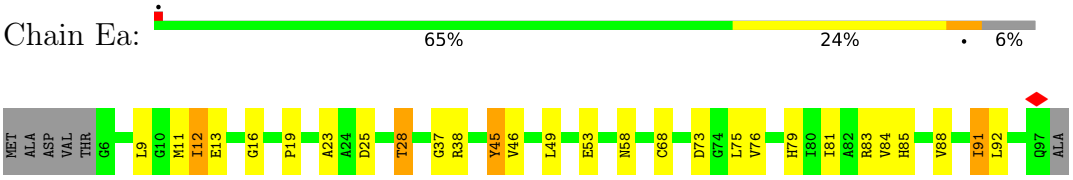
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EU:



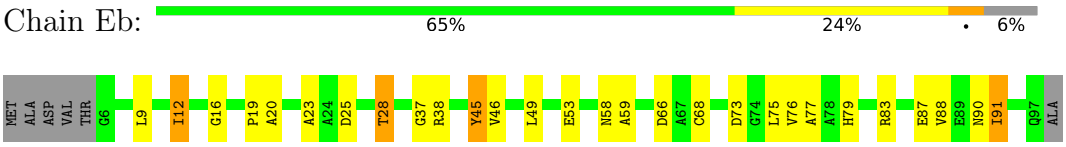
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ea:



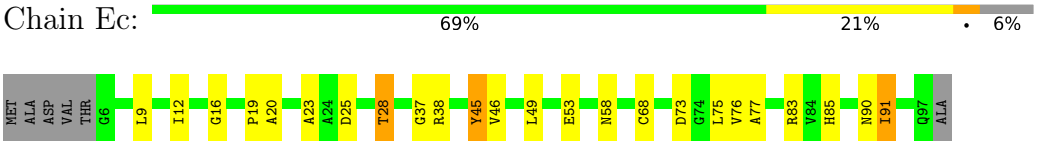
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Eb:



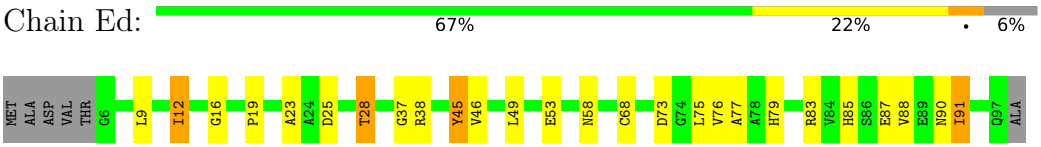
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ec:



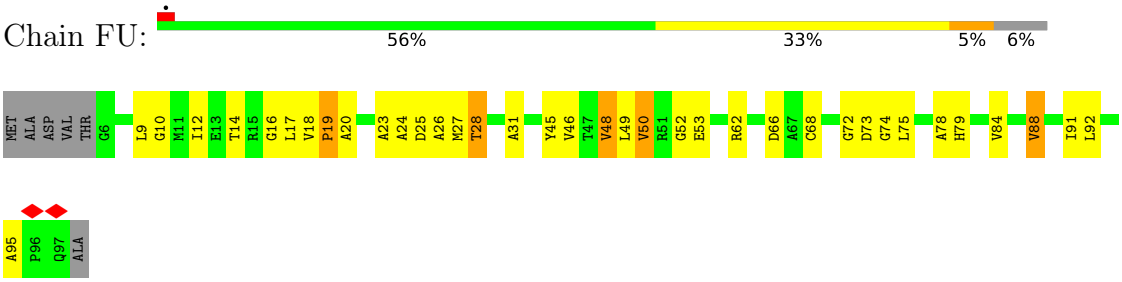
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ed:



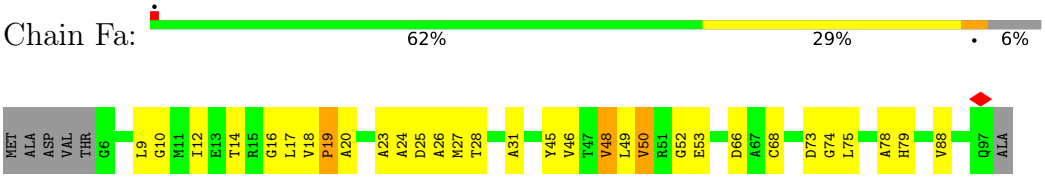
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FU:



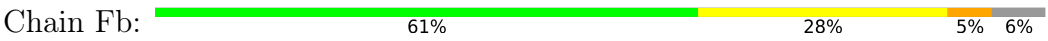
• Molecule 1: Major carboxysome shell protein CsoS1A

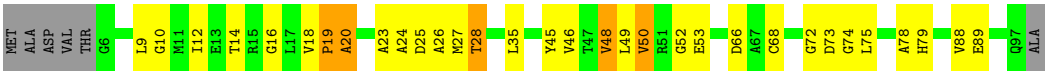
Chain Fa:



• Molecule 1: Major carboxysome shell protein CsoS1A

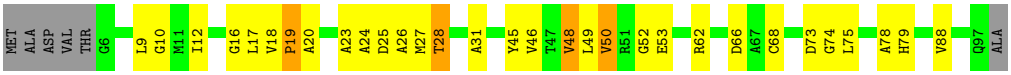
Chain Fb:





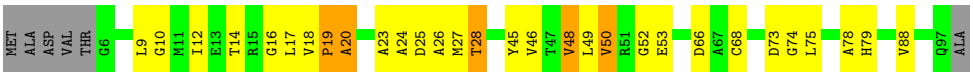
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fc:



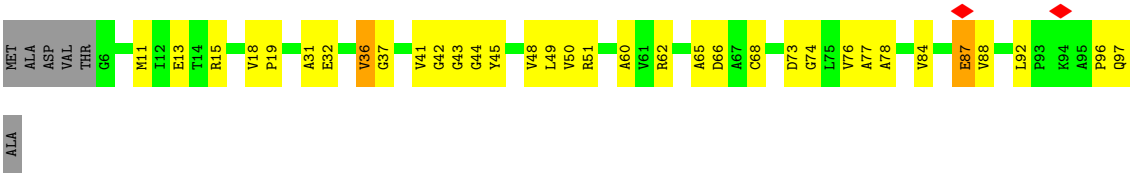
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fd:



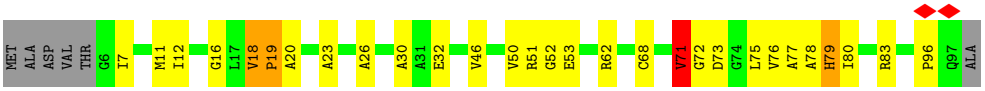
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain GU:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ga:

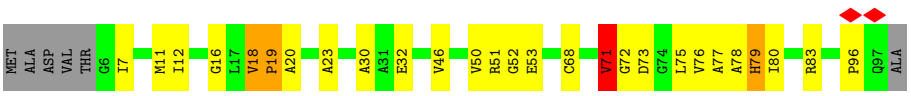


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gb:

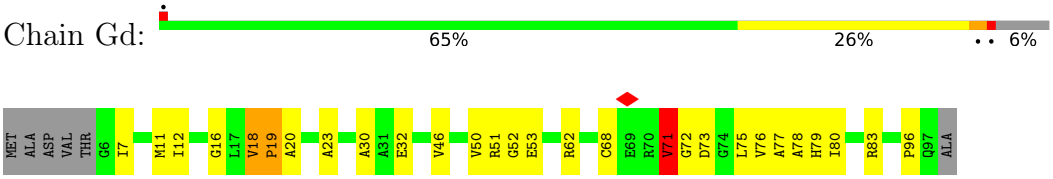
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gc:



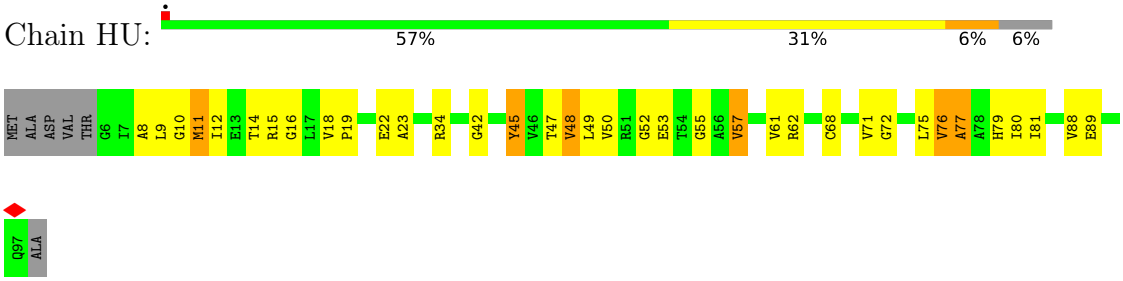
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gd:



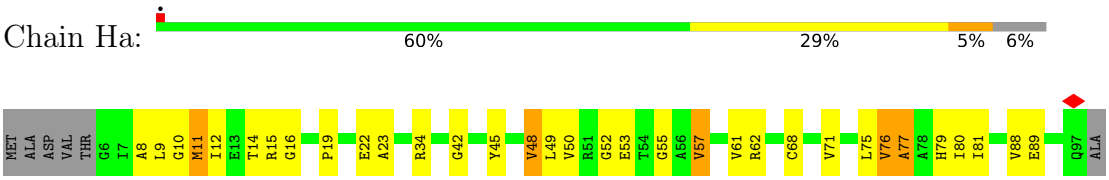
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain HU:



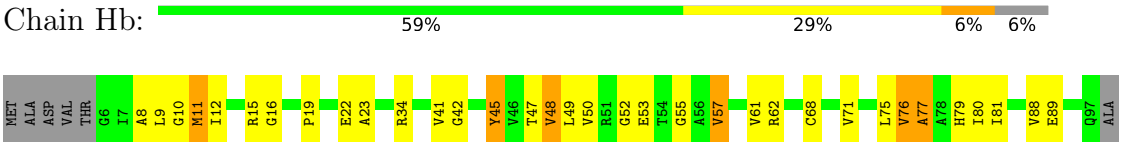
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ha:



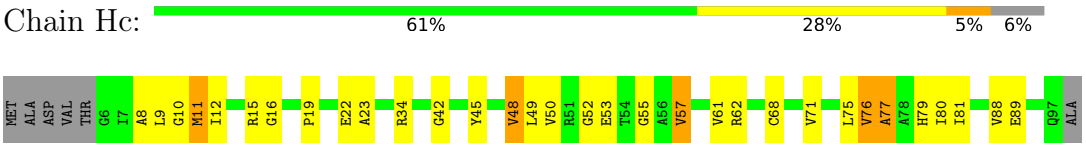
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hb:



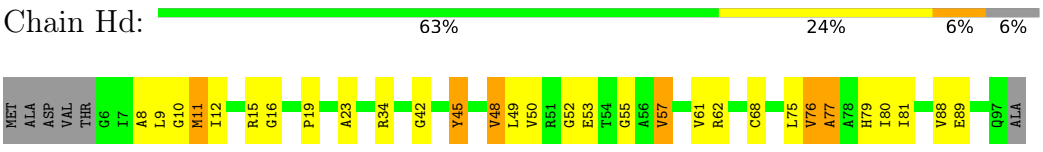
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hc:



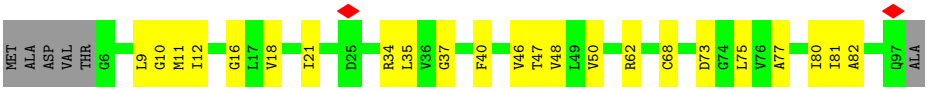
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hd:



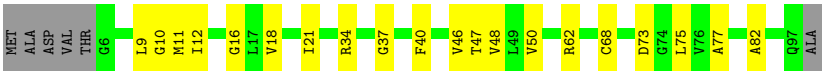
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain IU:



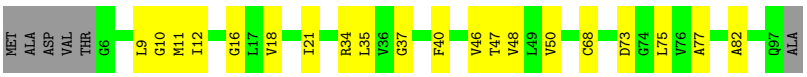
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ia:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ib:



• Molecule 1: Major carboxysome shell protein CsoS1A

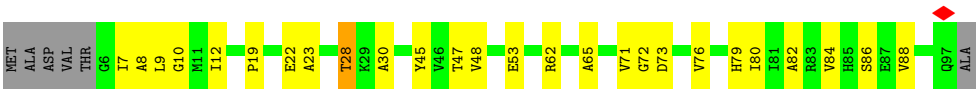
Chain Ic:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Id:

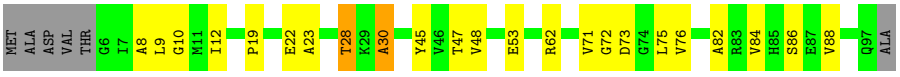
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ja:



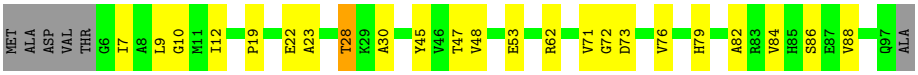
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jb:



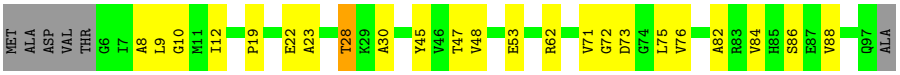
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jc:



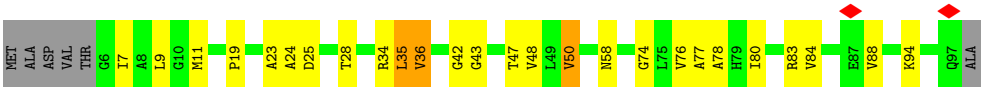
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jd:



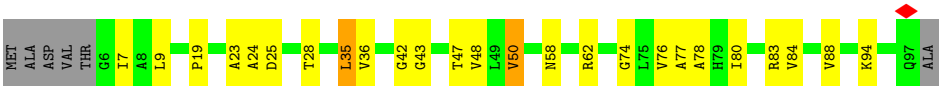
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KU:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ka:

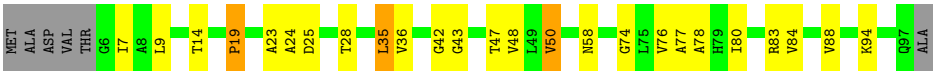


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kb:

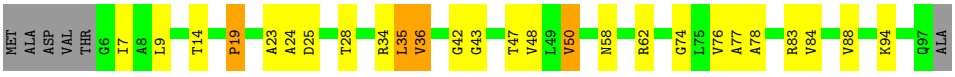
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kc:



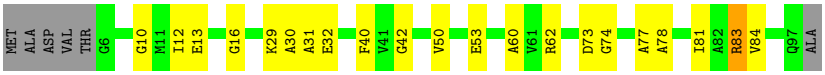
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kd:



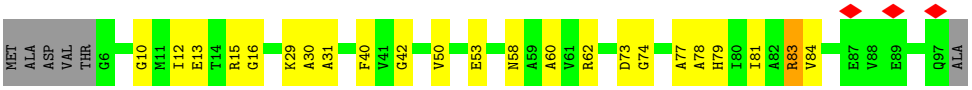
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LU:



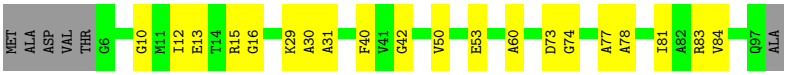
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain La:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lb:

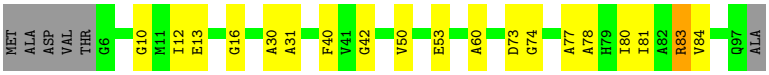


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lc:

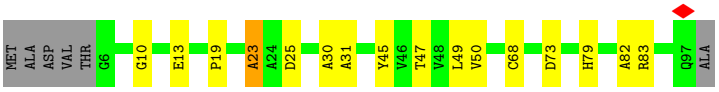
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ld:



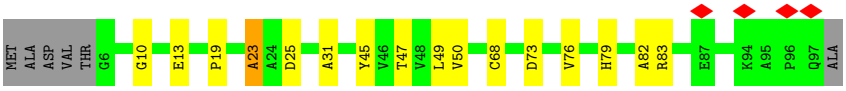
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MU:



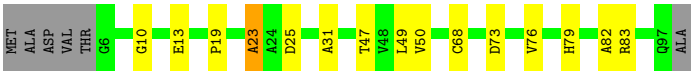
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ma:



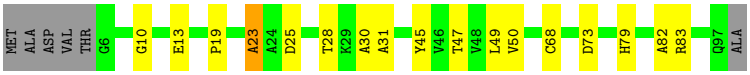
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mb:



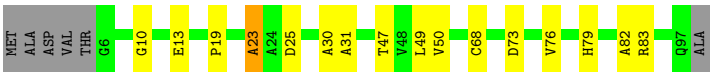
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mc:



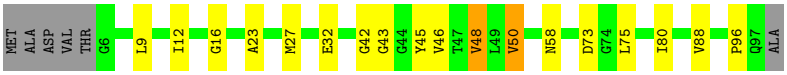
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Md:



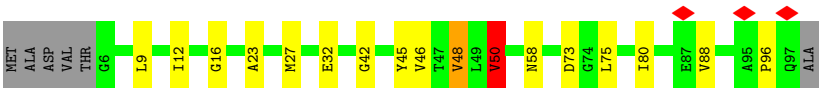
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NU:



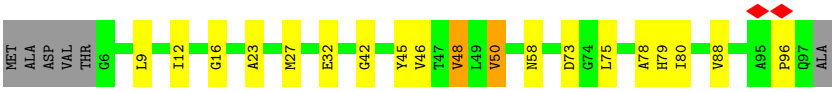
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Na:



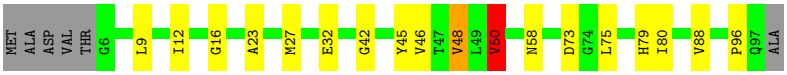
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nb:



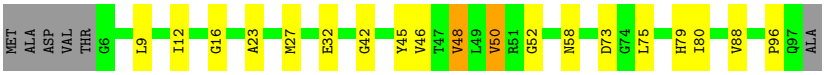
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nc:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nd:

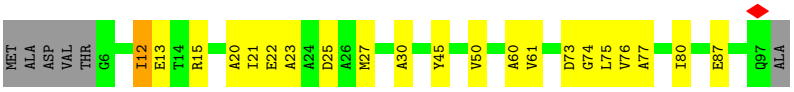


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OU:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Oa:

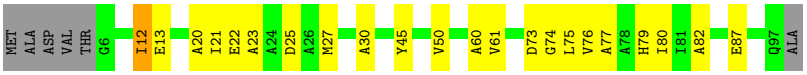


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ob:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Oc:

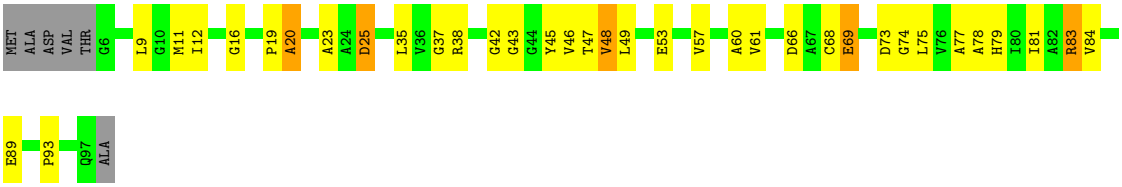


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Od:

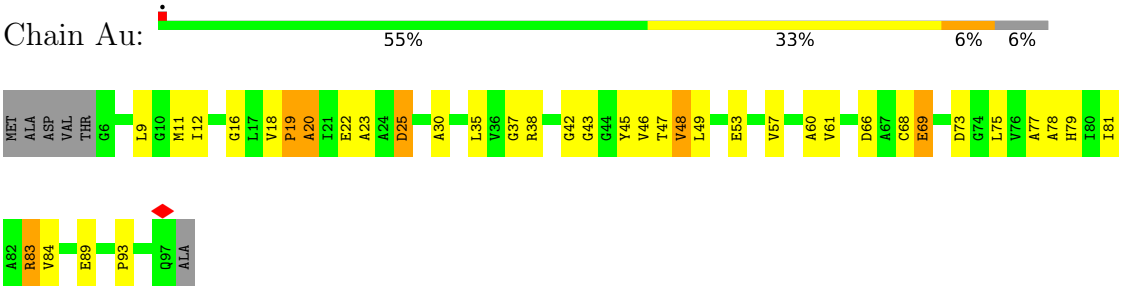
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain At:



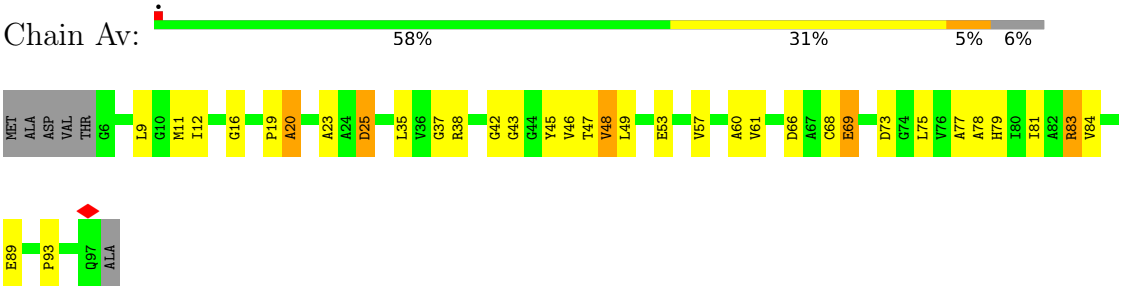
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Au:



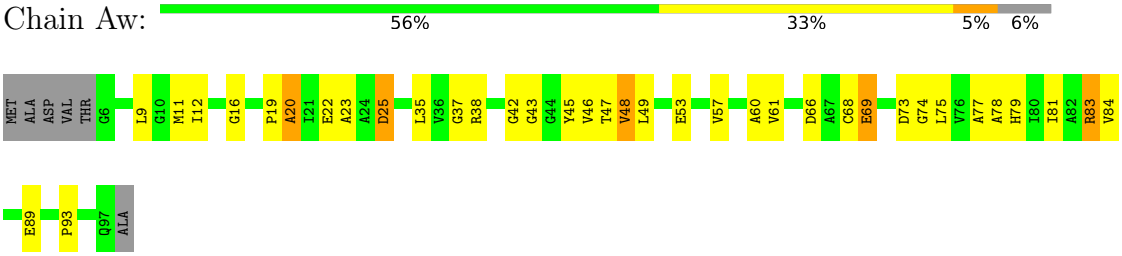
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Av:



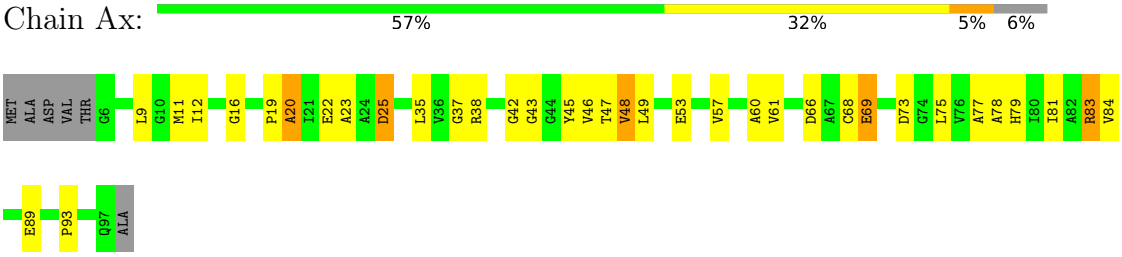
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Aw:



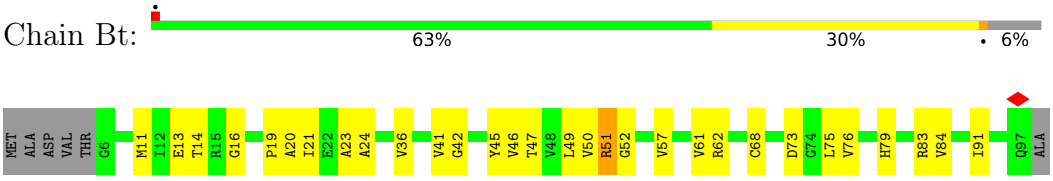
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ax:



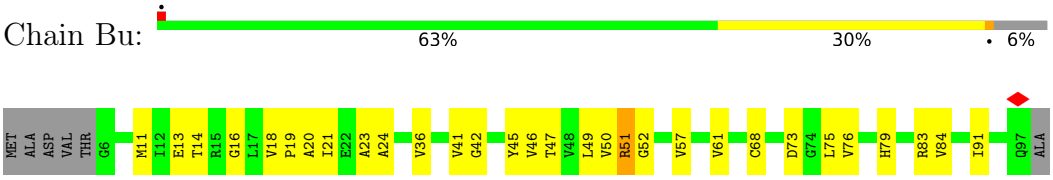
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bt:



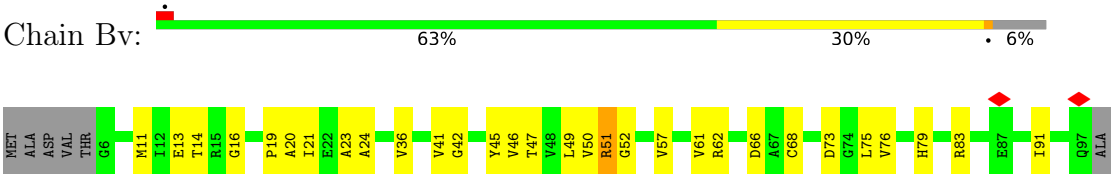
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bu:



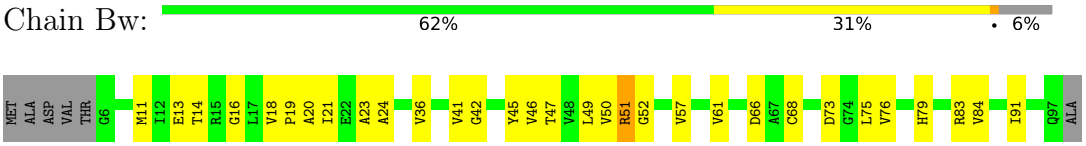
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bv:



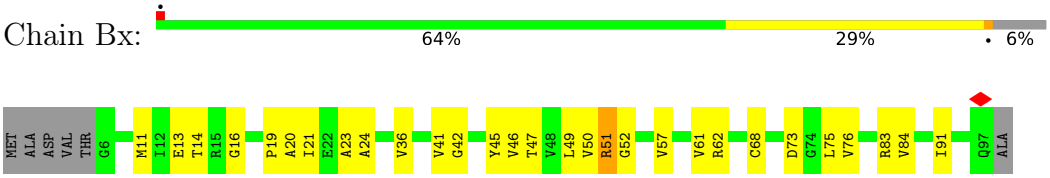
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bw:



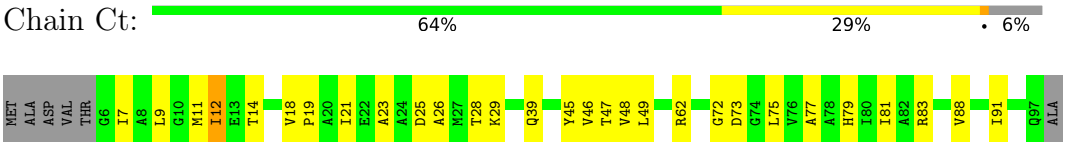
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bx:



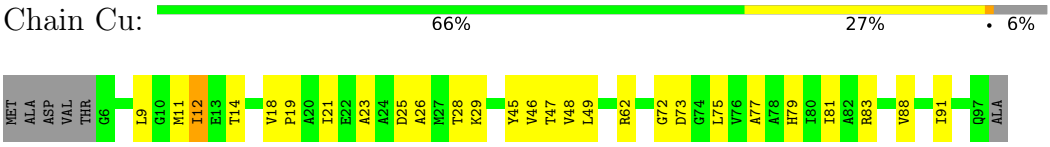
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ct:



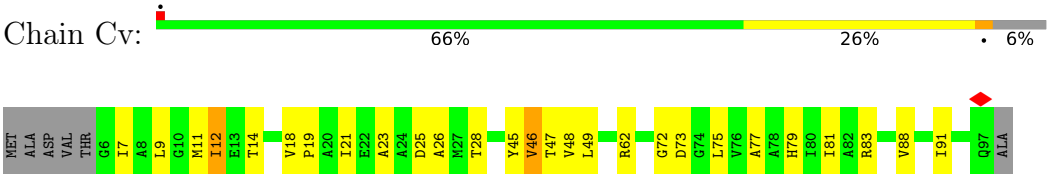
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cu:



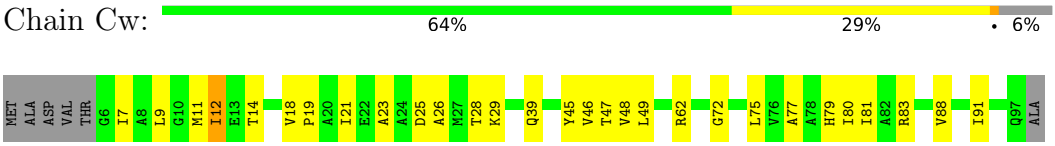
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cv:



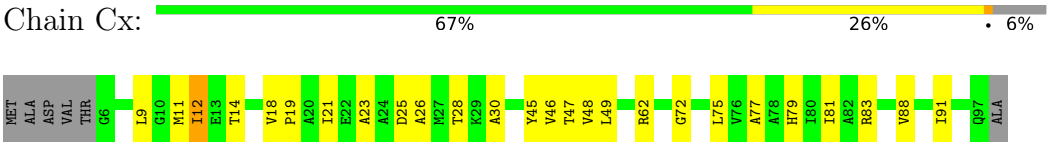
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cw:



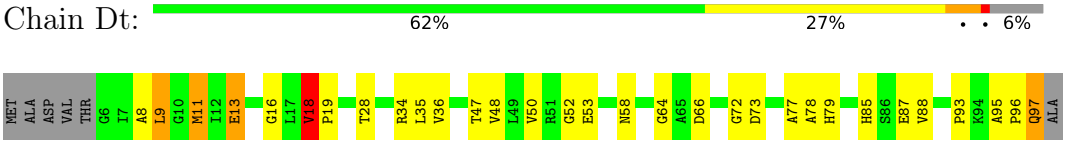
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cx:



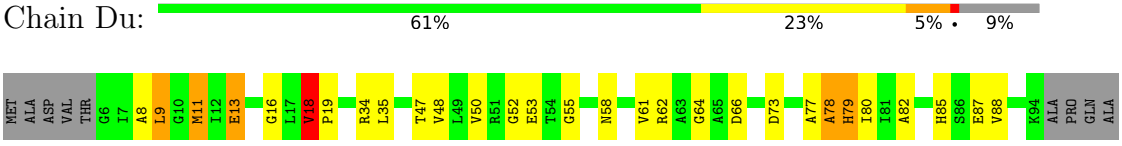
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dt:



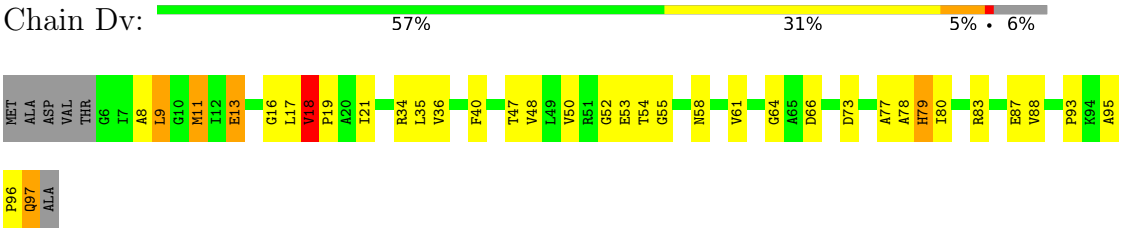
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Du:



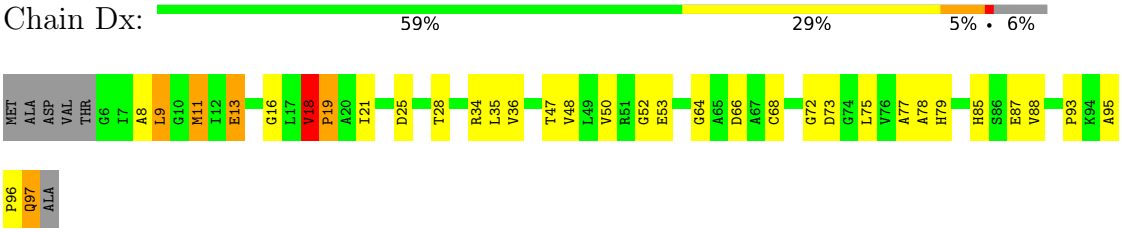
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dv:



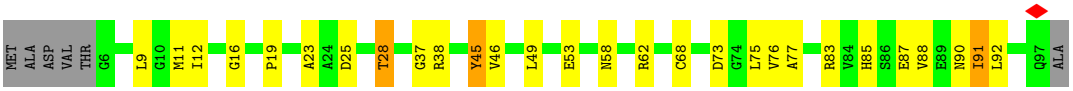
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dx:



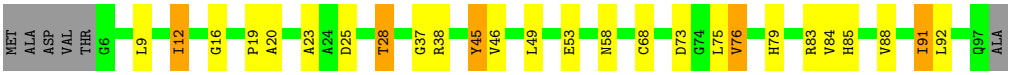
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Et:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Eu:

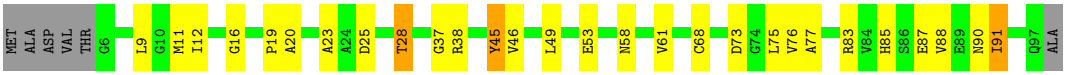


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ev:

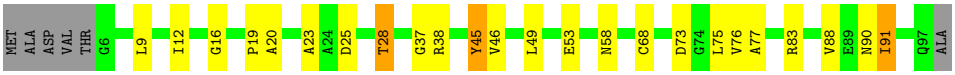
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ew:



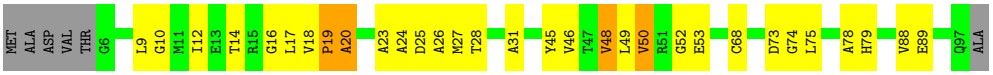
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ex:



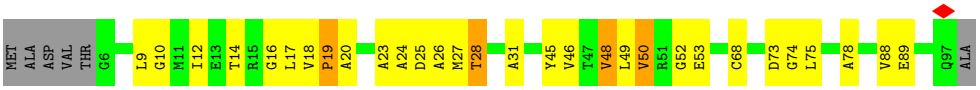
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ft:



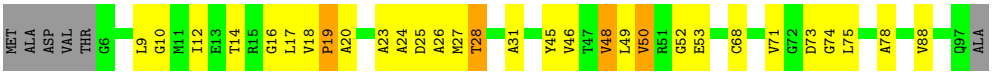
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fu:



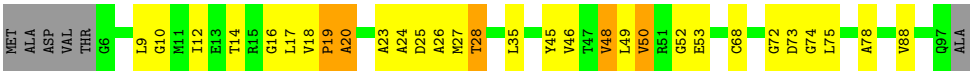
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fv:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fw:

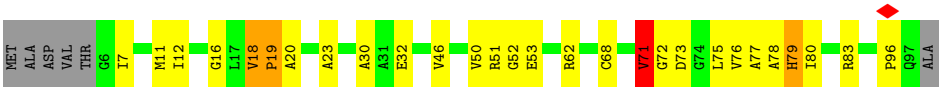


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fx:

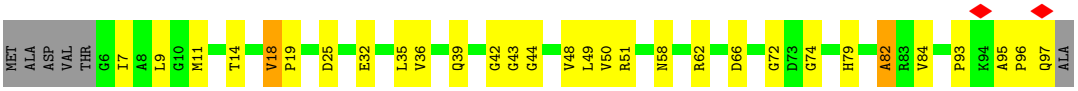
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gt:



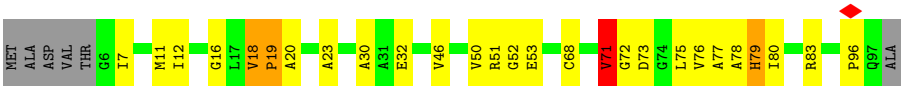
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gu:



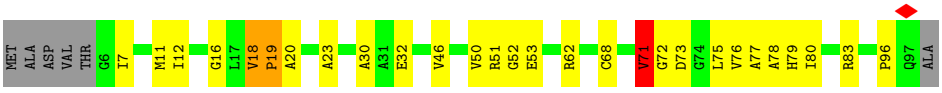
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gv:



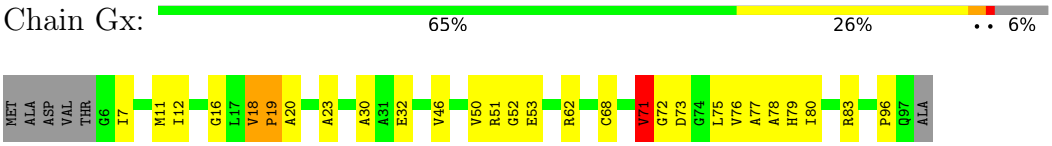
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gw:



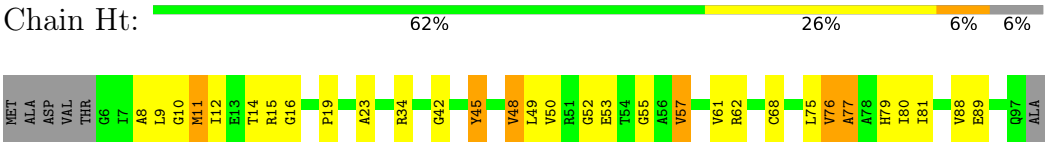
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gx:



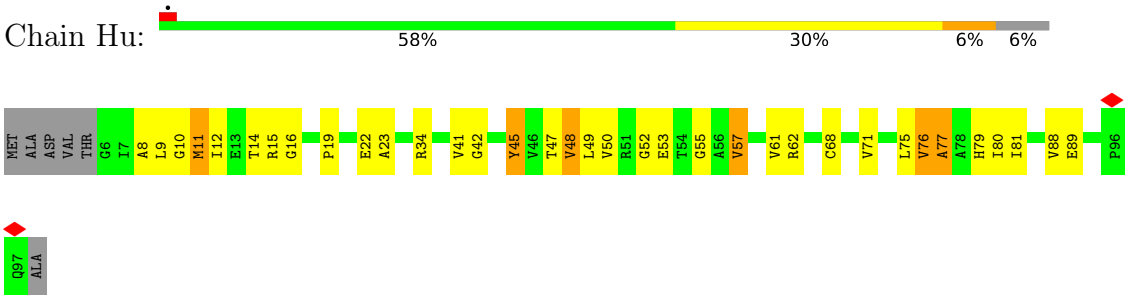
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ht:



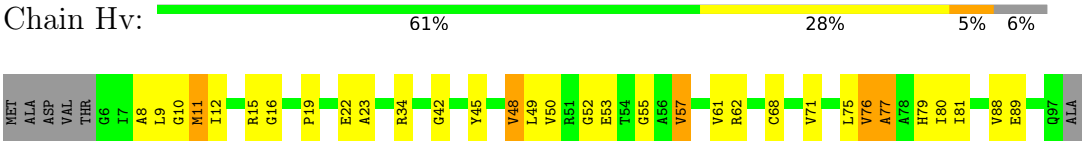
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hu:



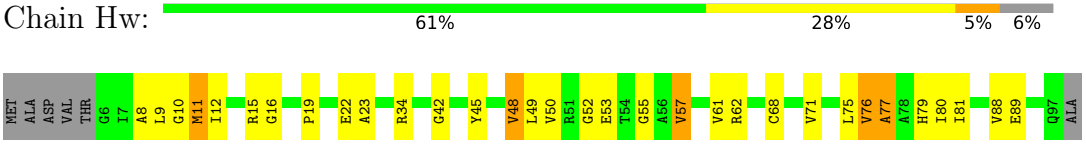
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hv:



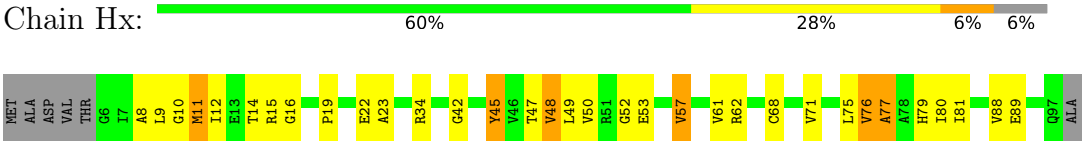
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hw:



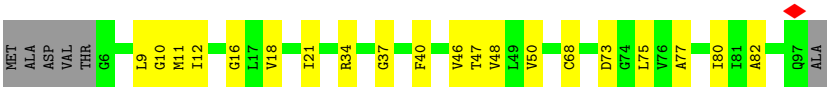
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hx:



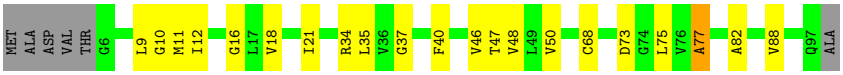
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain It:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Iu:



• Molecule 1: Major carboxysome shell protein CsoS1A

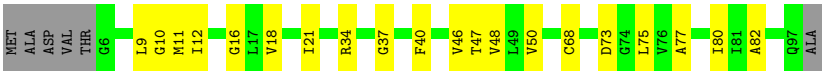
Chain Iv:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Iw:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ix:



• Molecule 1: Major carboxysome shell protein CsoS1A

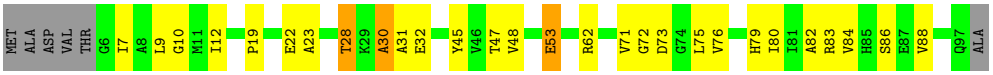
Chain Jt:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ju:

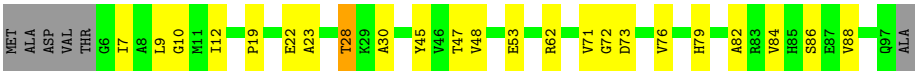
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jw:



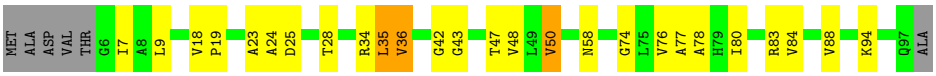
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jx:



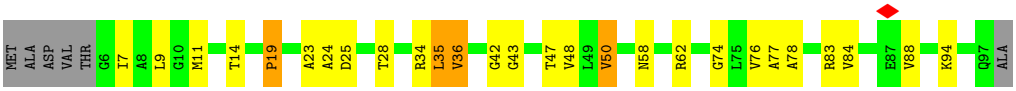
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kt:



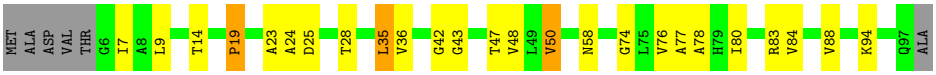
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ku:



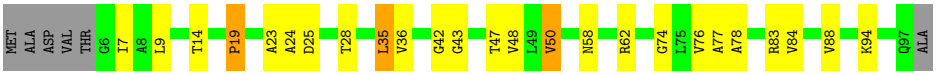
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kv:



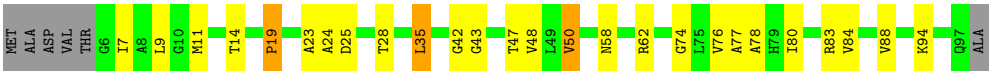
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kw:



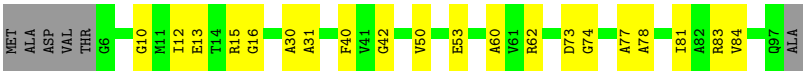
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kx:



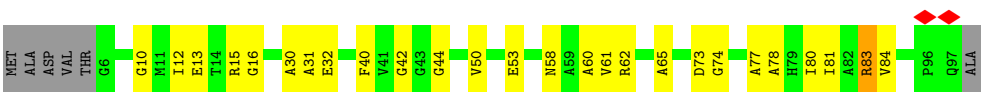
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lt:



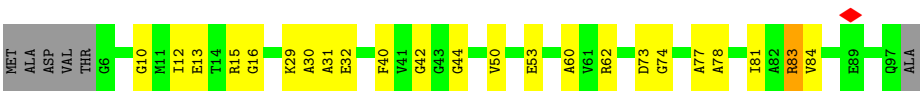
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lu:



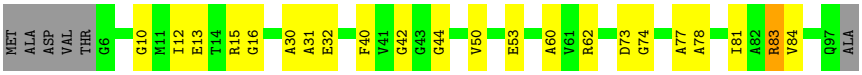
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lv:



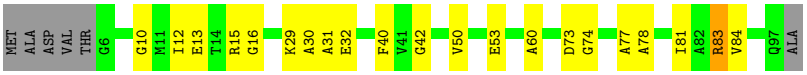
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lw:



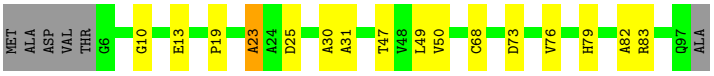
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lx:



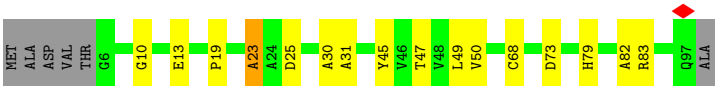
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mt:



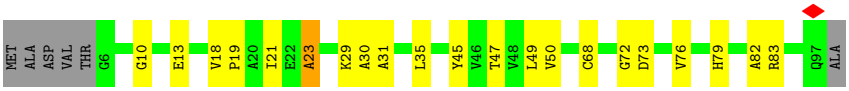
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mu:



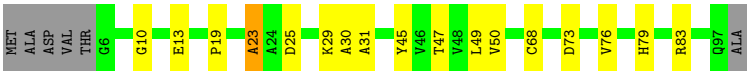
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mv:



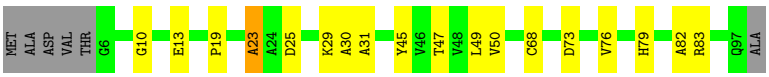
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mw:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mx:

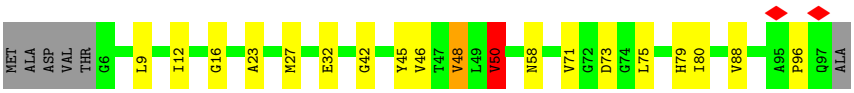


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nt:

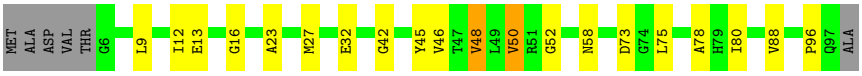
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nu:



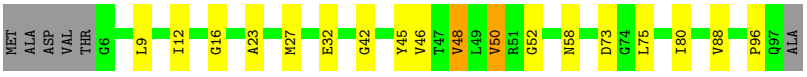
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nv:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nw:



• Molecule 1: Major carboxysome shell protein CsoS1A

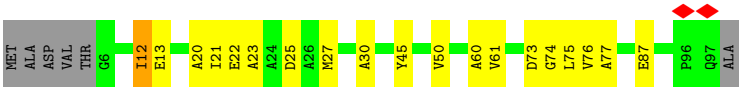
Chain Nx:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ot:

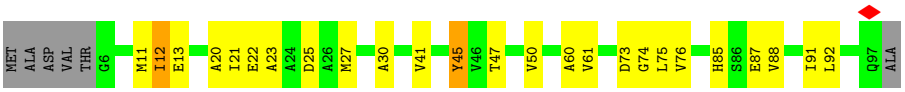
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ou:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ov:



• Molecule 1: Major carboxysome shell protein CsoS1A

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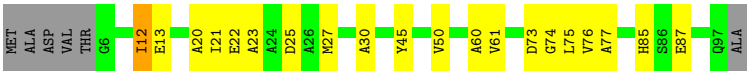
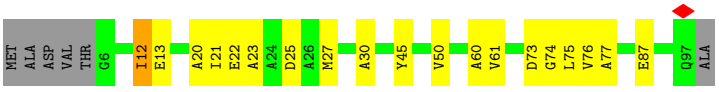


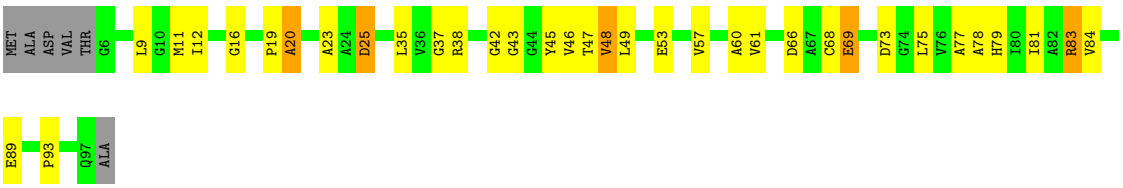
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ox:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ak:



• Molecule 1: Major carboxysome shell protein CsoS1A

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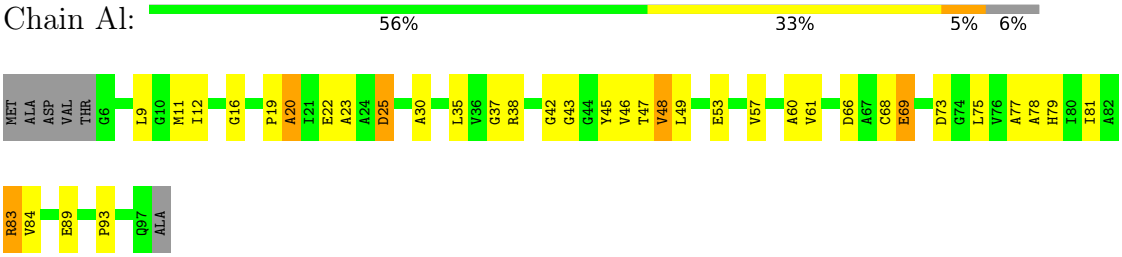
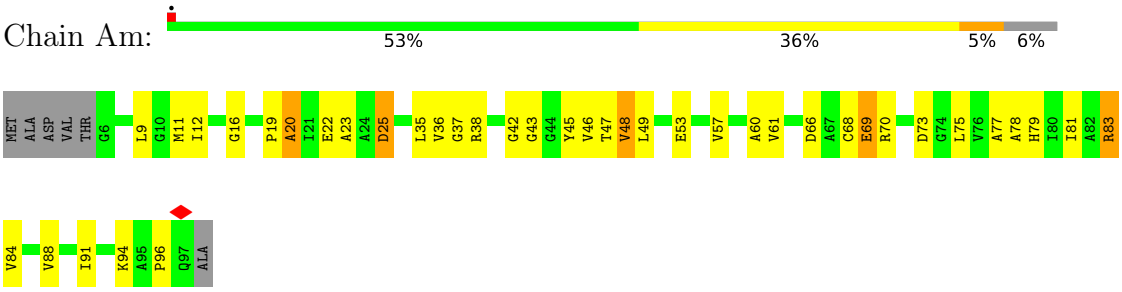


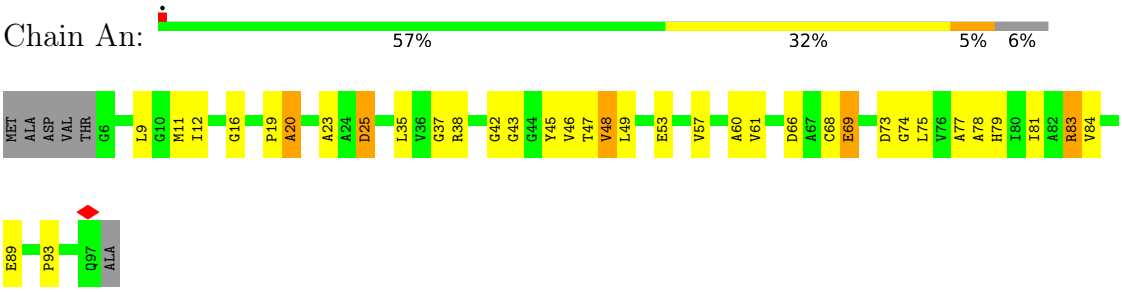
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Am:



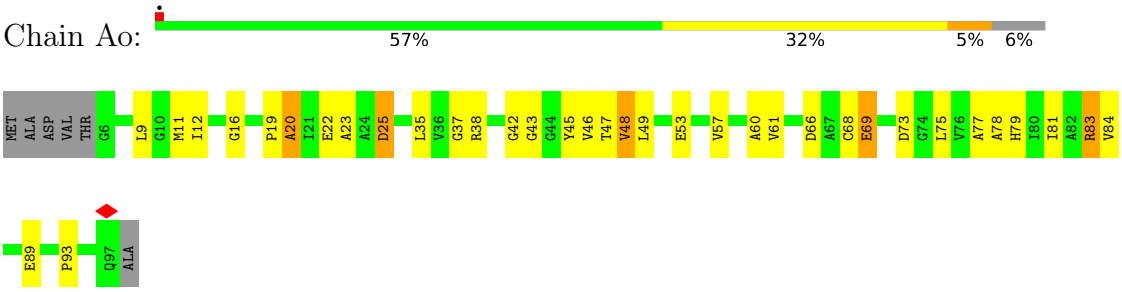
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain An:



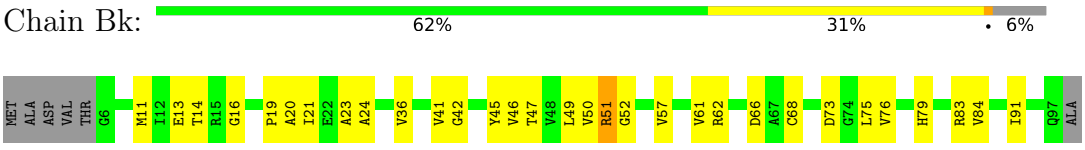
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ao:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bk:



• Molecule 1: Major carboxysome shell protein CsoS1A

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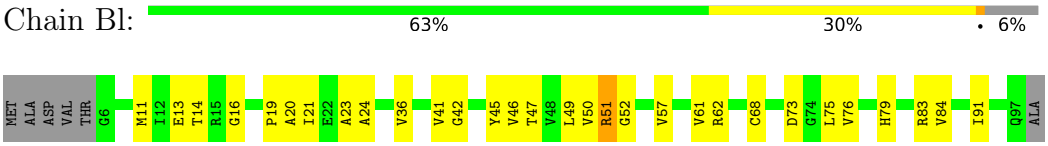

• Molecule 1: Major carboxysome shell protein CsoS1A

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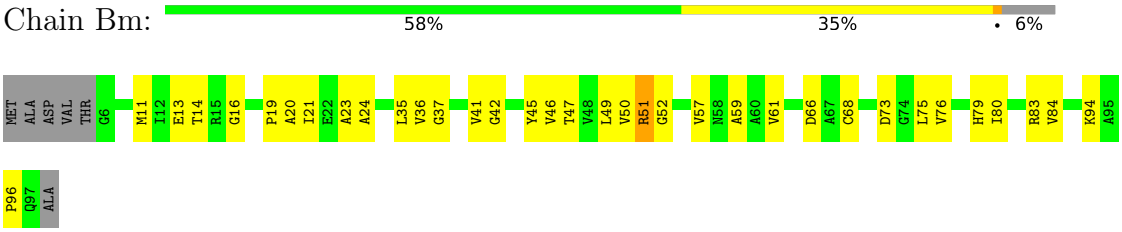
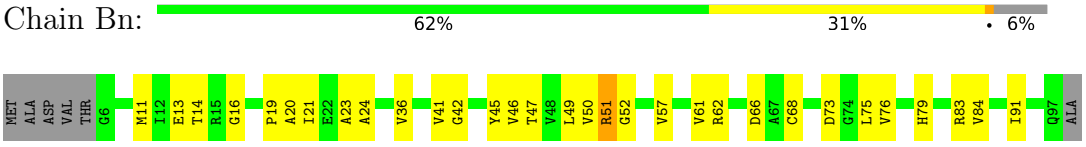


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bn:



• Molecule 1: Major carboxysome shell protein CsoS1A

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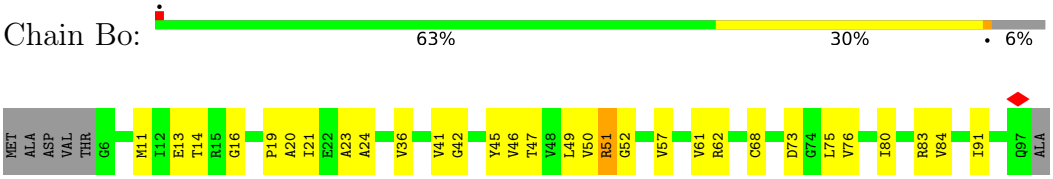
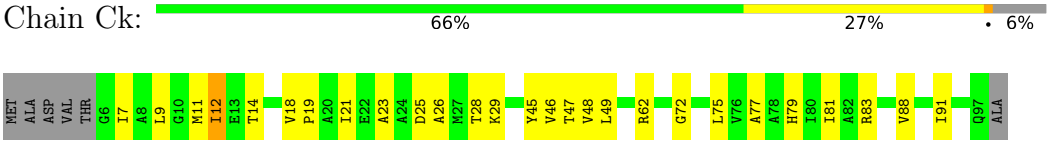


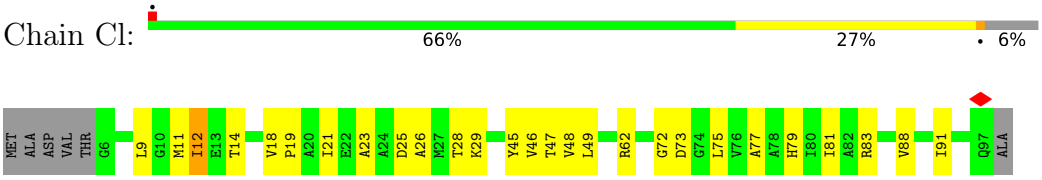
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ck:



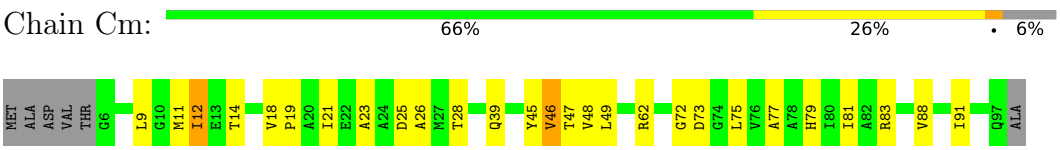
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cl:



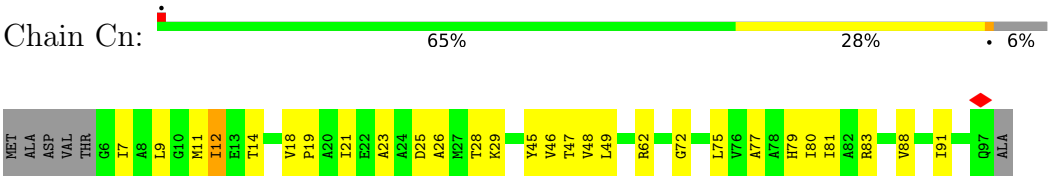
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cm:



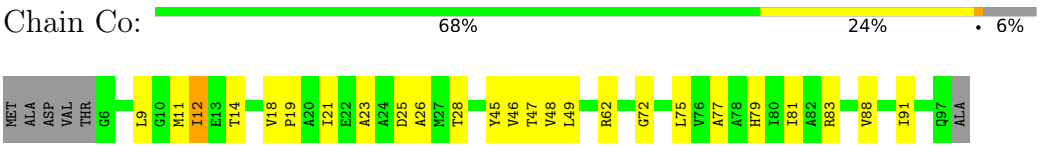
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cn:



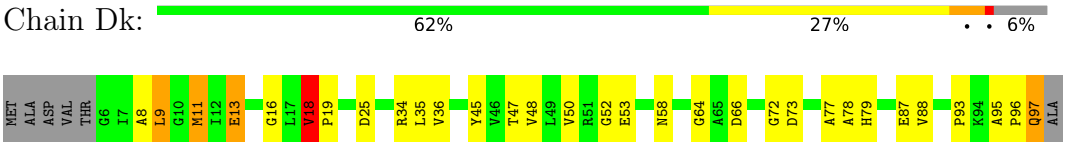
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Co:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dk:

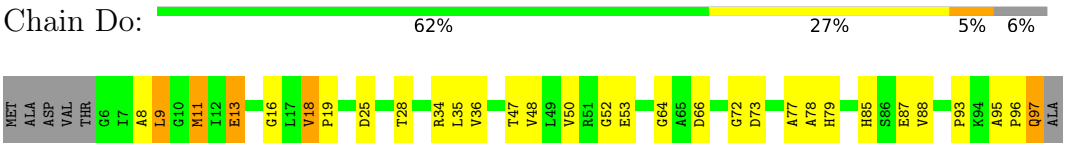


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dm:

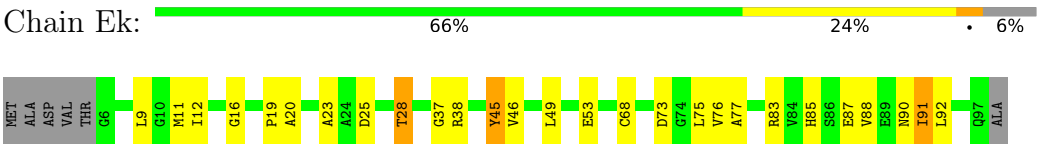
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Do:



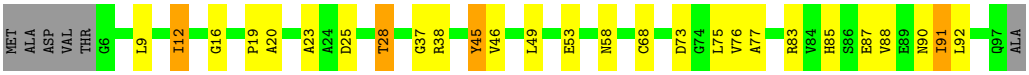
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ek:



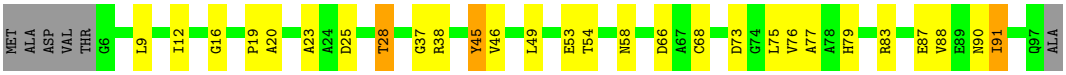
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain En:



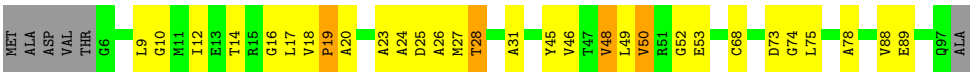
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Eo:



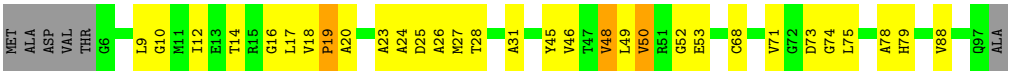
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fk:



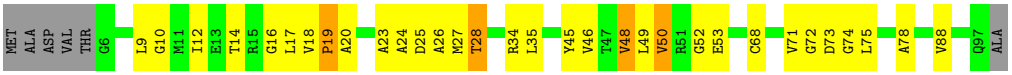
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fm:



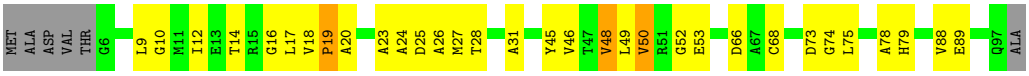
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fn:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fo:



• Molecule 1: Major carboxysome shell protein CsoS1A

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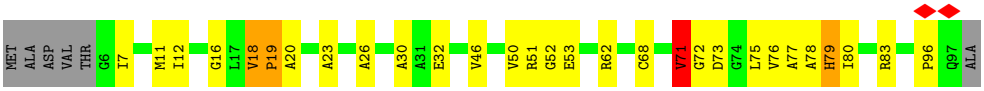
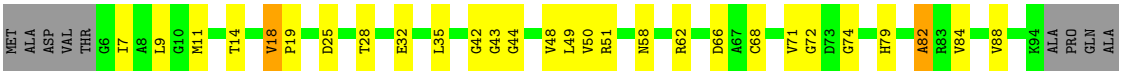


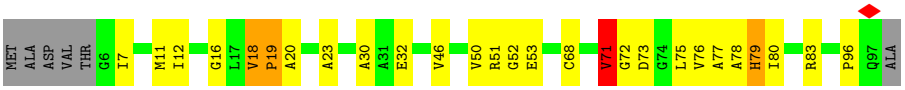
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gl:



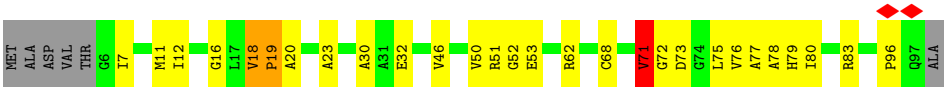
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gm:



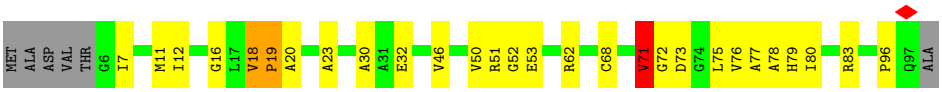
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gn:



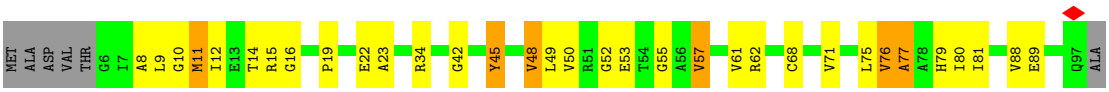
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Go:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hk:

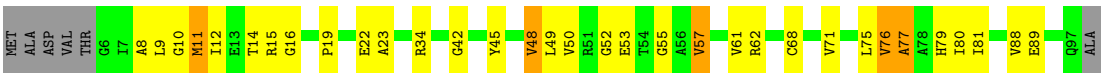


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hl:

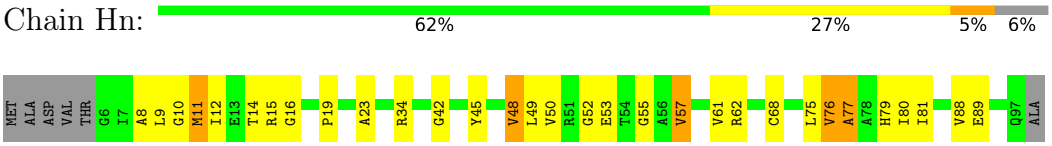
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hm:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hn:



• Molecule 1: Major carboxysome shell protein CsoS1A

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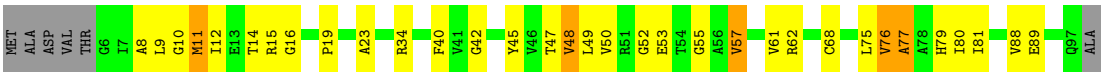
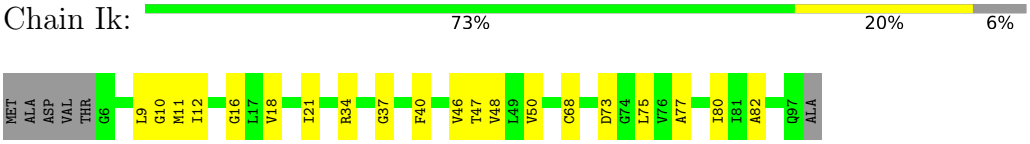


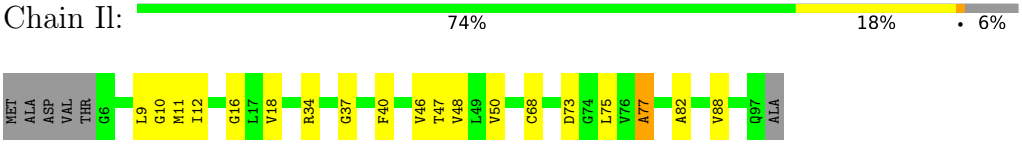
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ik:



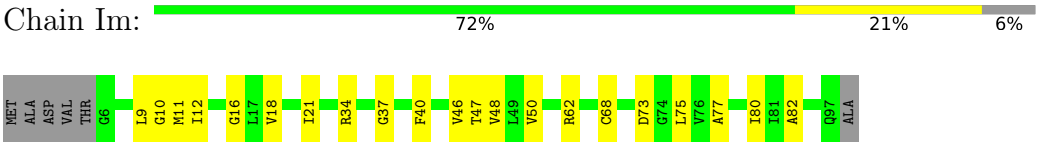
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Il:



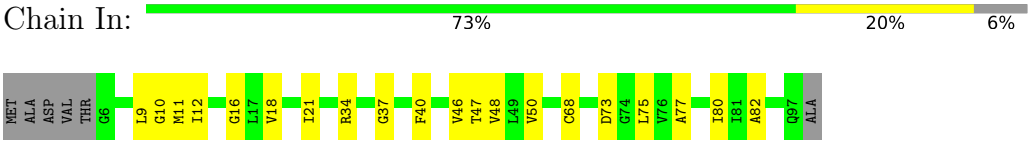
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Im:



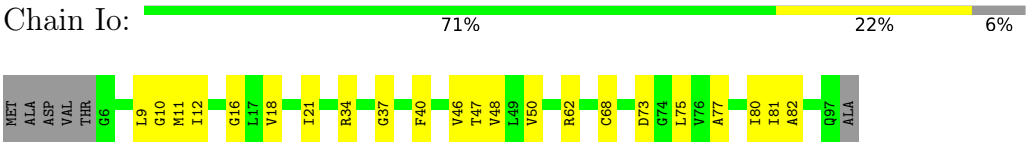
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain In:



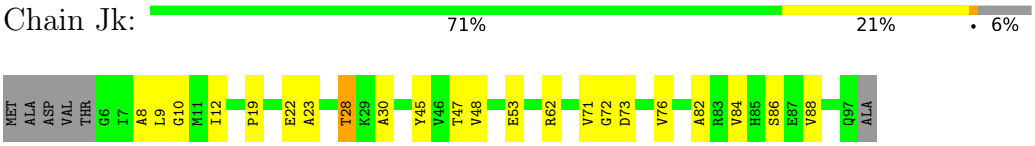
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Io:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jk:



• Molecule 1: Major carboxysome shell protein CsoS1A

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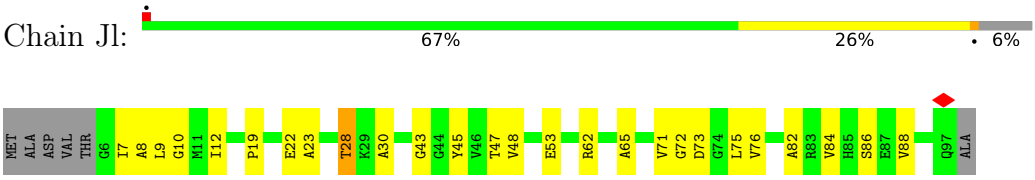

• Molecule 1: Major carboxysome shell protein CsoS1A

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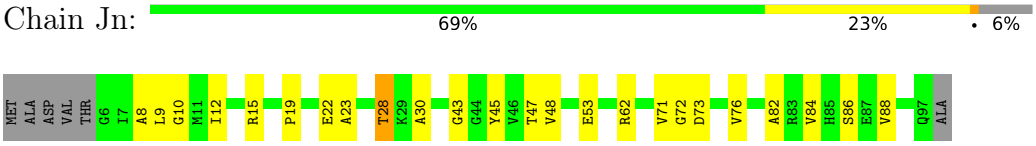
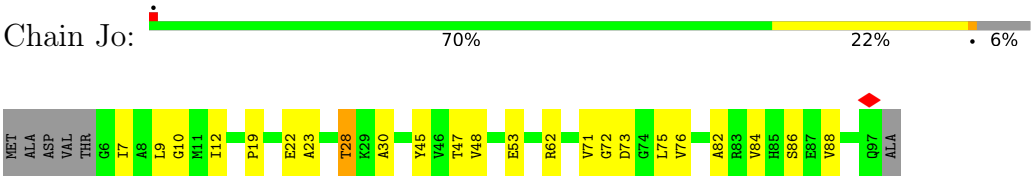


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jo:



• Molecule 1: Major carboxysome shell protein CsoS1A

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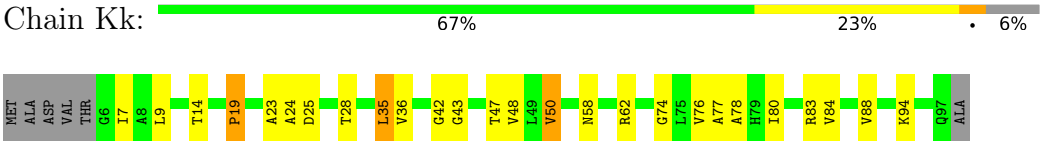

• Molecule 1: Major carboxysome shell protein CsoS1A

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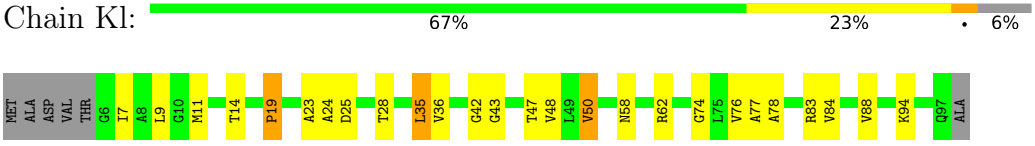

• Molecule 1: Major carboxysome shell protein CsoS1A

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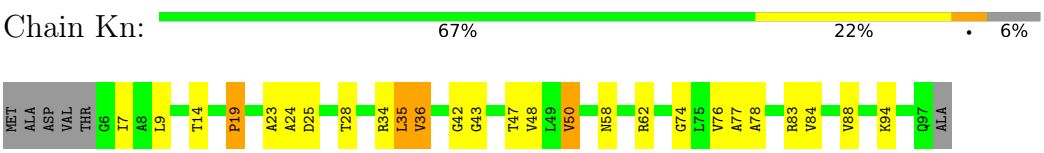

• Molecule 1: Major carboxysome shell protein CsoS1A

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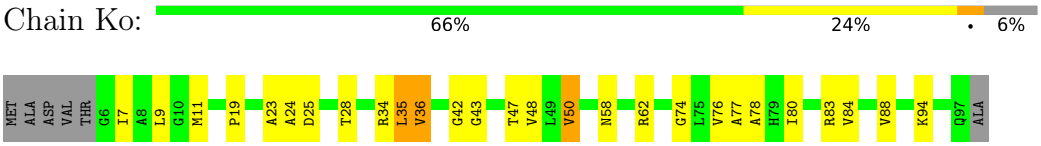

• Molecule 1: Major carboxysome shell protein CsoS1A

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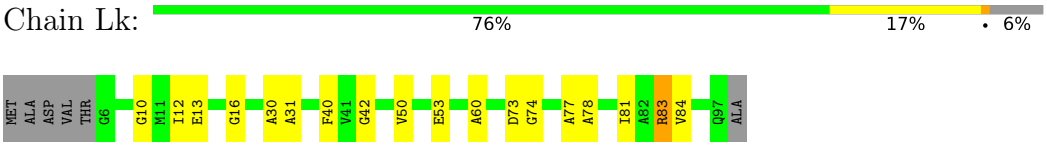

• Molecule 1: Major carboxysome shell protein CsoS1A

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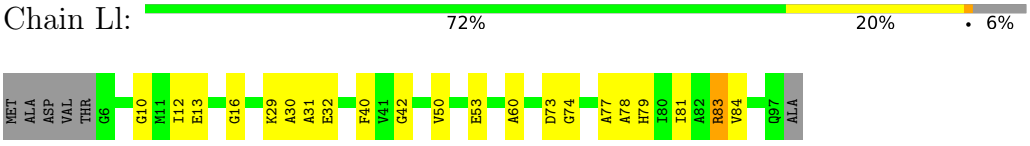

• Molecule 1: Major carboxysome shell protein CsoS1A

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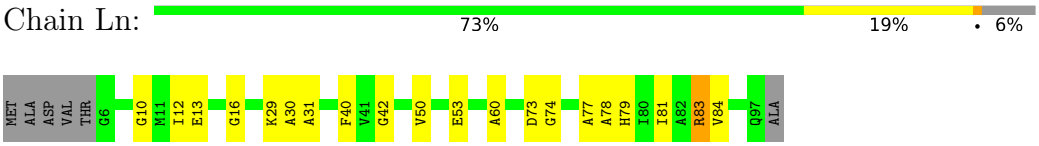

• Molecule 1: Major carboxysome shell protein CsoS1A

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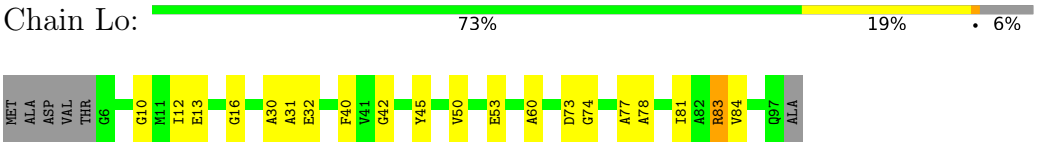
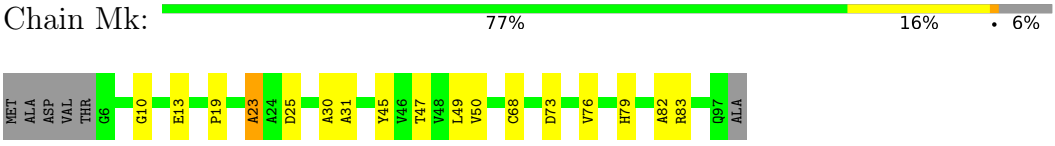


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mk:



• Molecule 1: Major carboxysome shell protein CsoS1A

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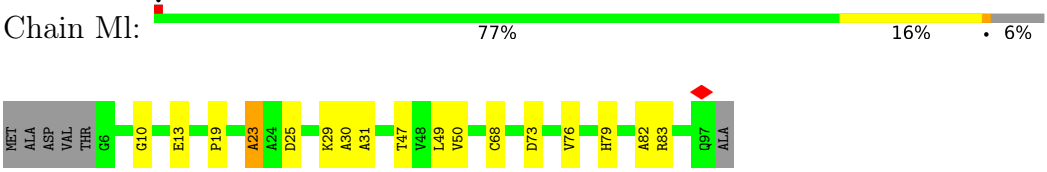

• Molecule 1: Major carboxysome shell protein CsoS1A

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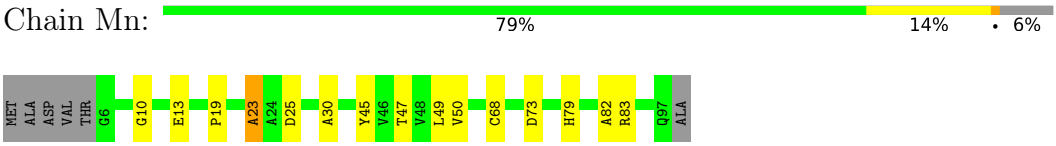

• Molecule 1: Major carboxysome shell protein CsoS1A

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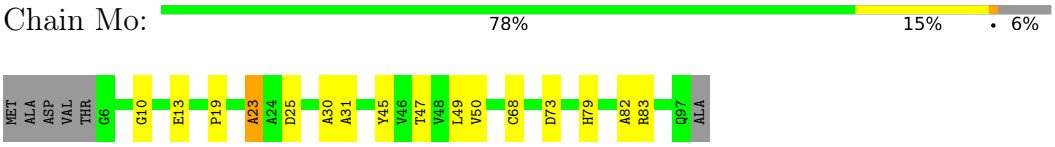

• Molecule 1: Major carboxysome shell protein CsoS1A

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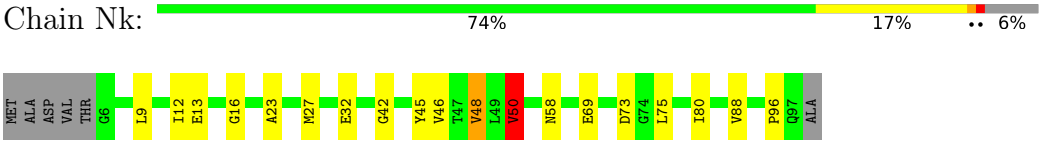

• Molecule 1: Major carboxysome shell protein CsoS1A

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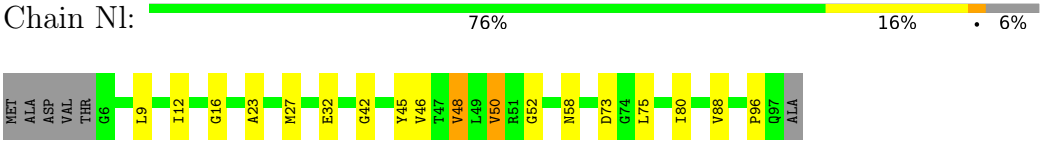

• Molecule 1: Major carboxysome shell protein CsoS1A

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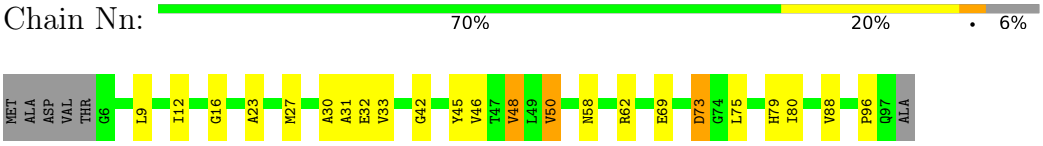

• Molecule 1: Major carboxysome shell protein CsoS1A

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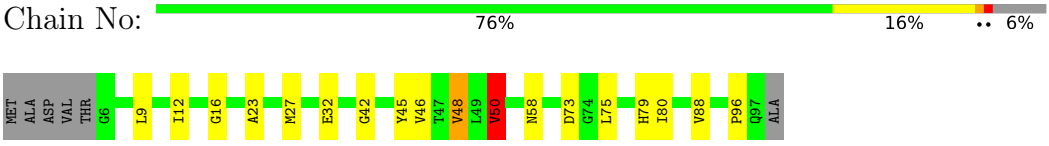

• Molecule 1: Major carboxysome shell protein CsoS1A

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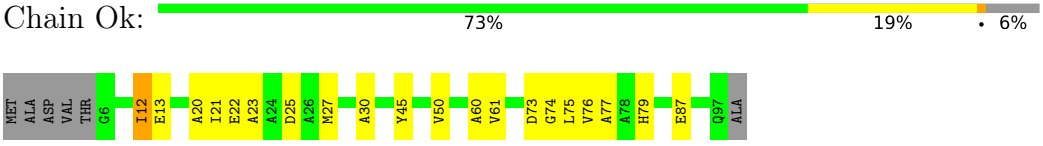
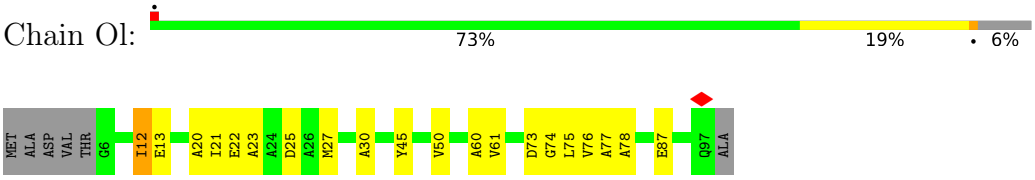


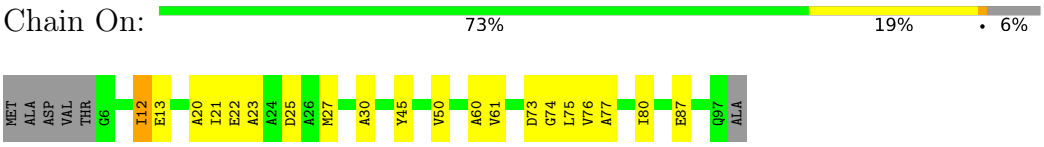
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ol:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain On:



• Molecule 1: Major carboxysome shell protein CsoS1A

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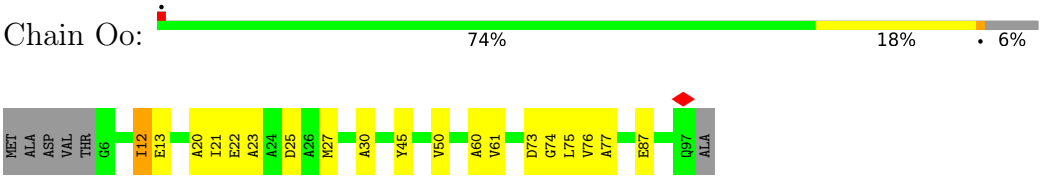

• Molecule 1: Major carboxysome shell protein CsoS1A

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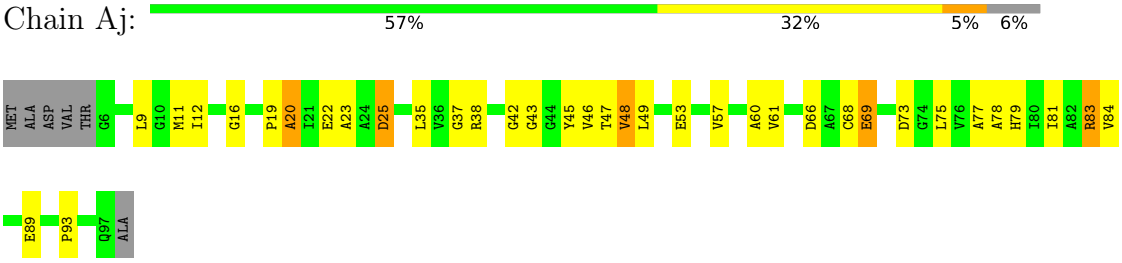

• Molecule 1: Major carboxysome shell protein CsoS1A

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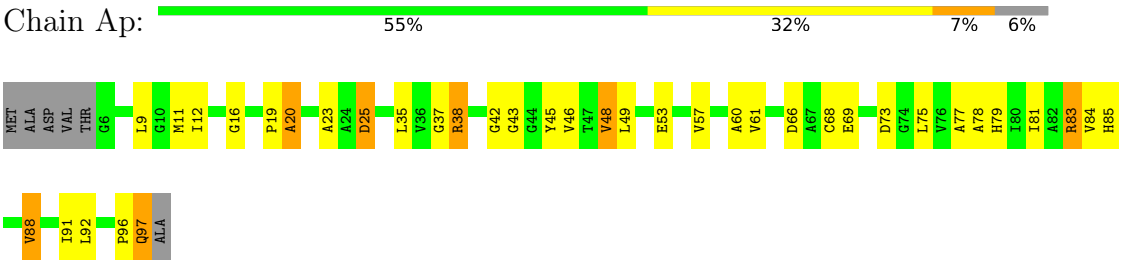
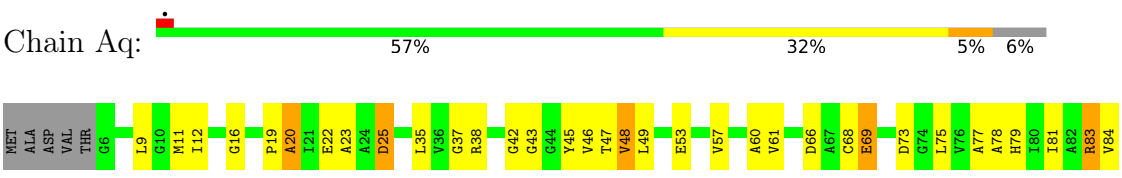
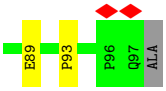


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Aq:





• Molecule 1: Major carboxysome shell protein CsoS1A

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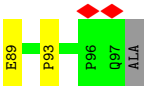

• Molecule 1: Major carboxysome shell protein CsoS1A

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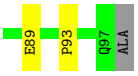

• Molecule 1: Major carboxysome shell protein CsoS1A

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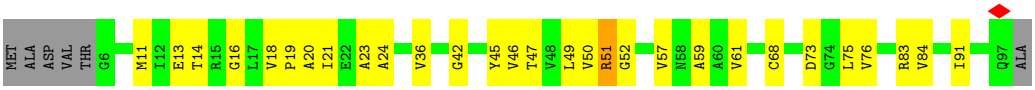
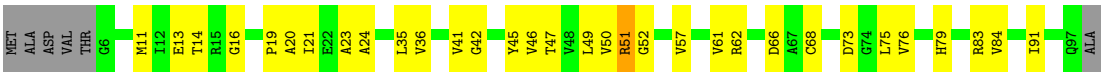


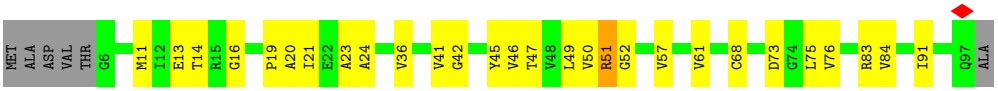
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bp:



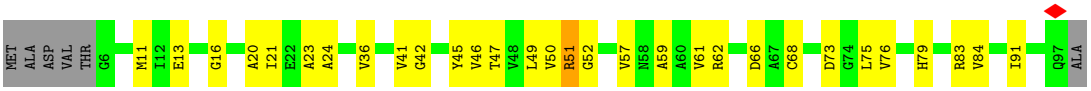
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bq:



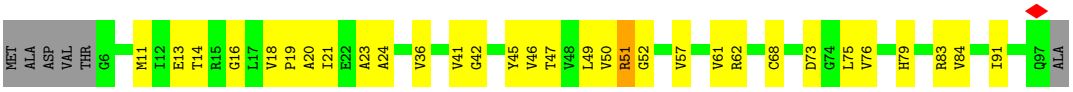
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Br:



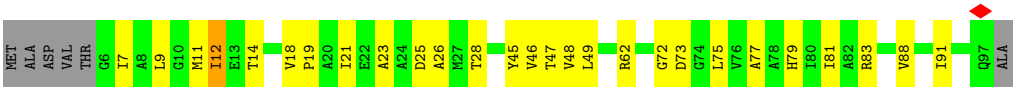
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Bs:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cj:



• Molecule 1: Major carboxysome shell protein CsoS1A

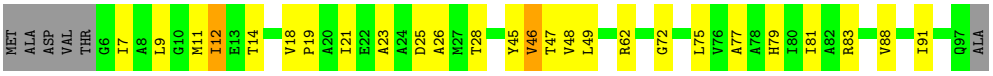
Chain Cp:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cq:

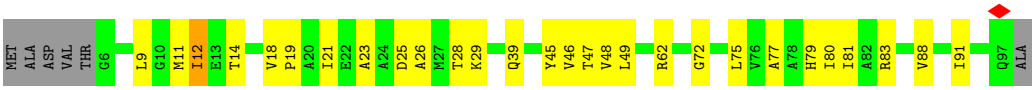
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cr:



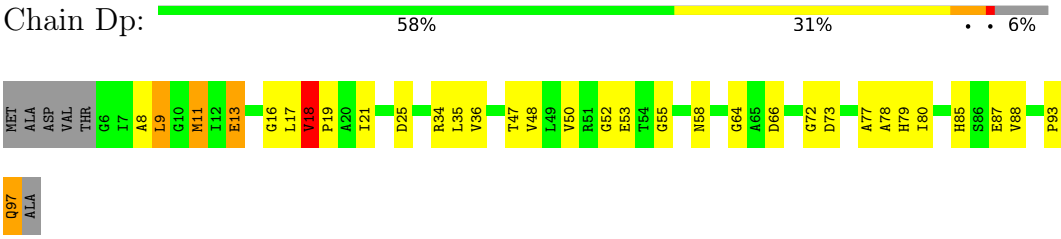
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Cs:



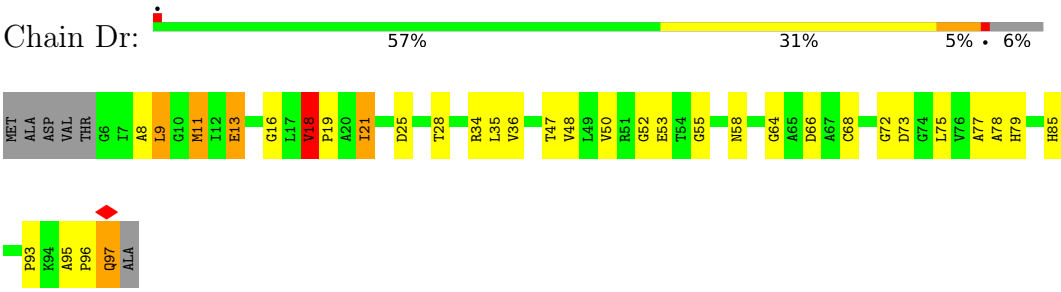
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dp:



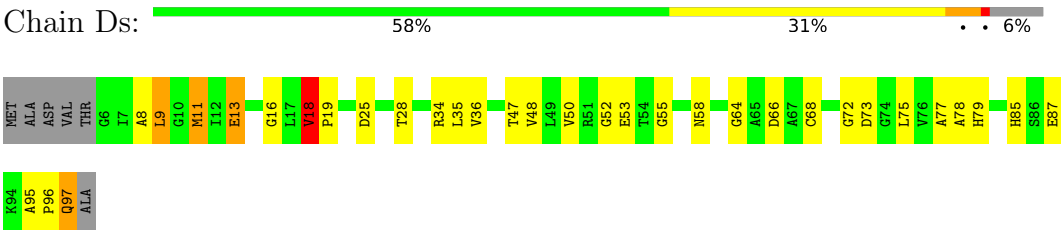
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dr:



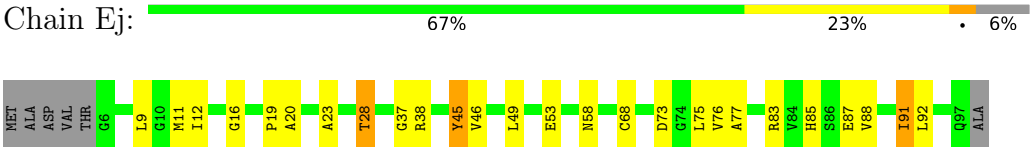
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ds:



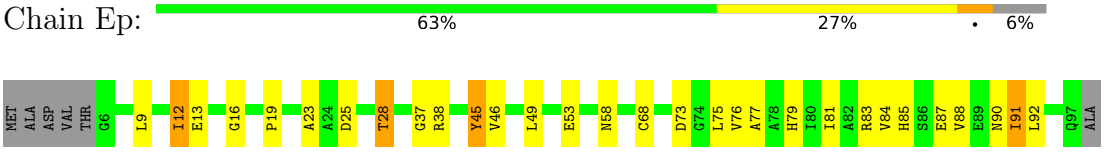
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ej:



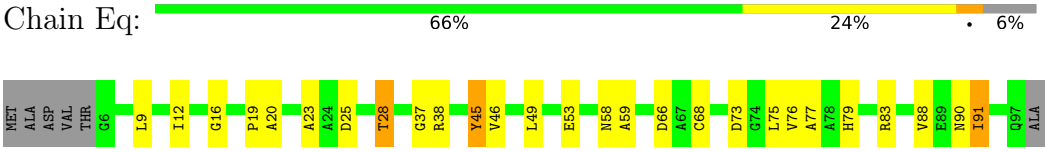
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ep:



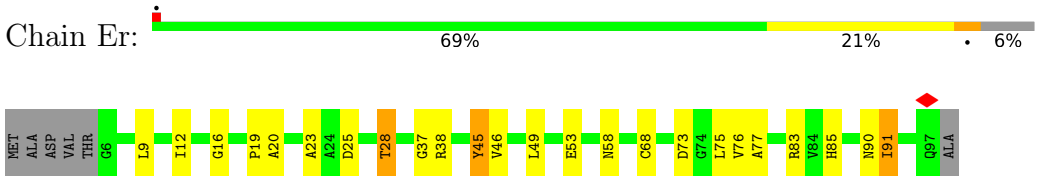
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Eq:



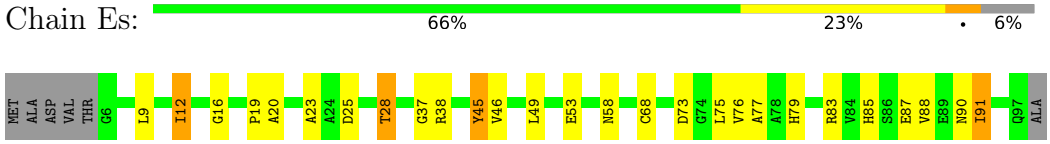
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Er:



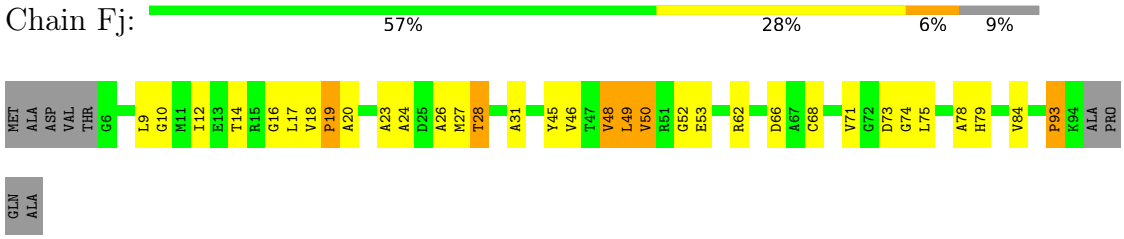
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Es:



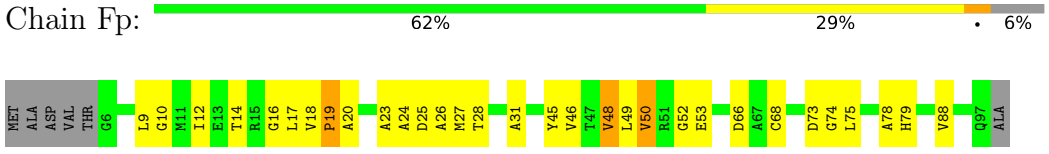
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fj:



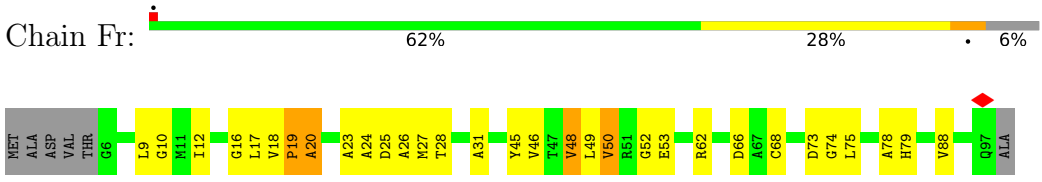
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fp:



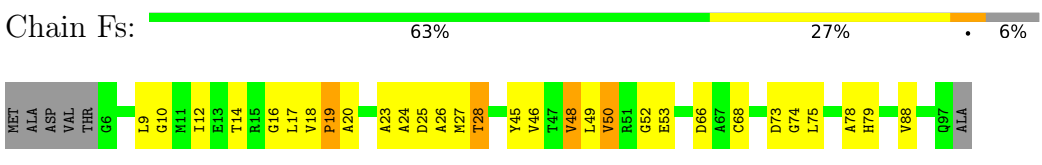
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fr:



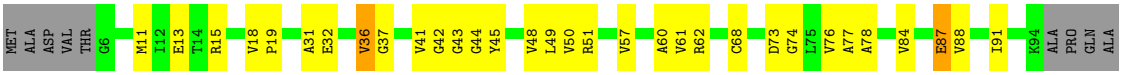
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fs:



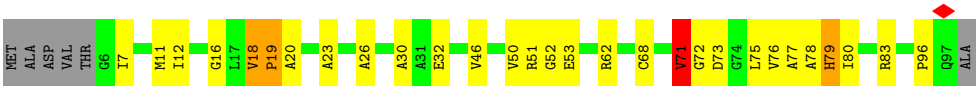
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gj:



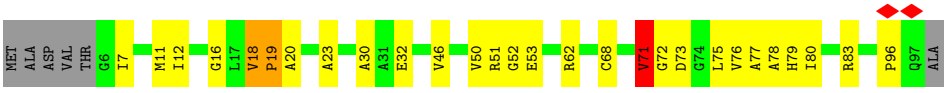
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gp:



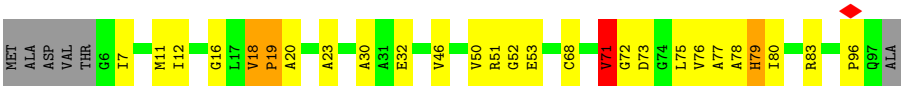
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gq:



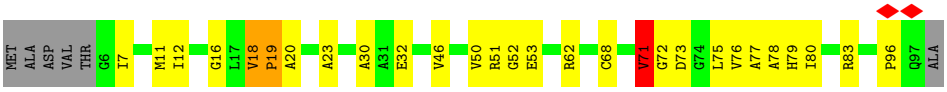
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gr:



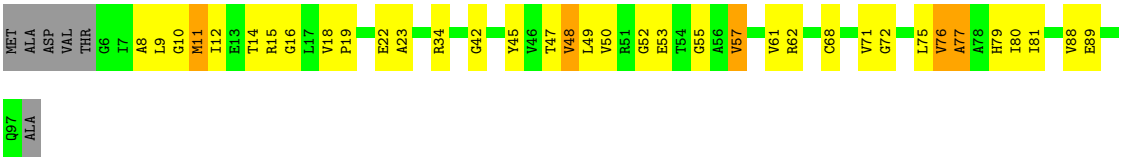
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Gs:



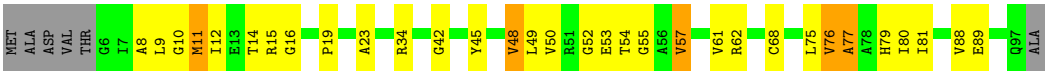
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hj:



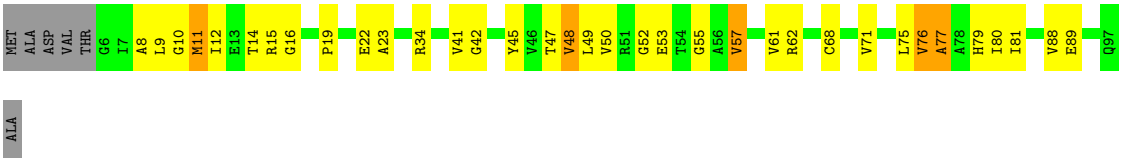
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hp:



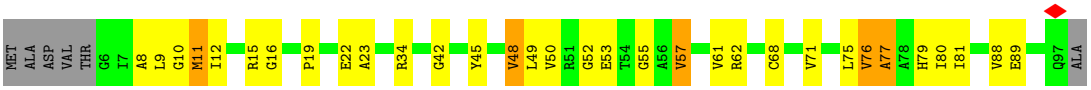
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hq:



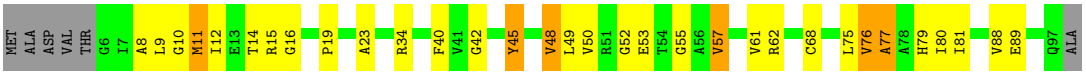
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hr:



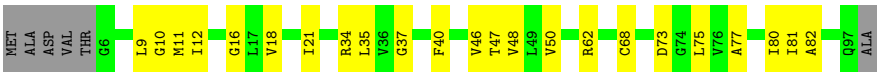
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Hs:



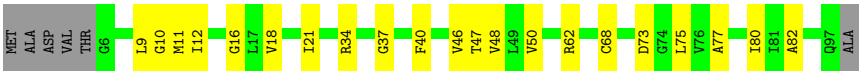
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ij:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ip:



• Molecule 1: Major carboxysome shell protein CsoS1A

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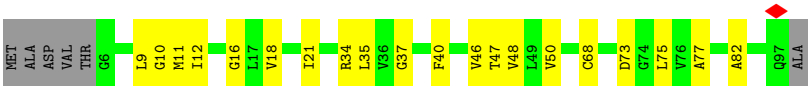

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ir:

• Molecule 1: Major carboxysome shell protein CsoS1A

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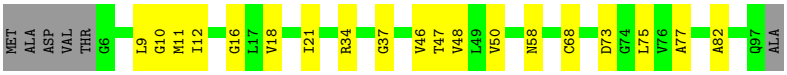

• Molecule 1: Major carboxysome shell protein CsoS1A

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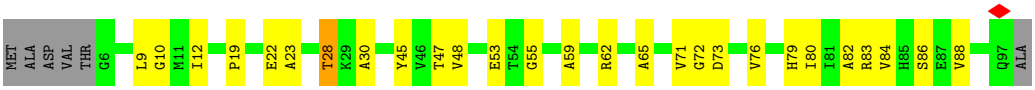
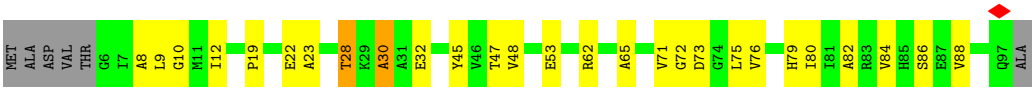


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jp:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jq:



• Molecule 1: Major carboxysome shell protein CsoS1A

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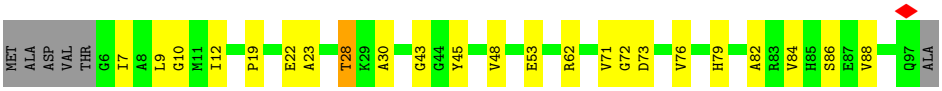
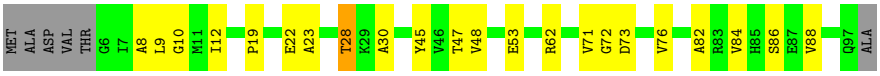


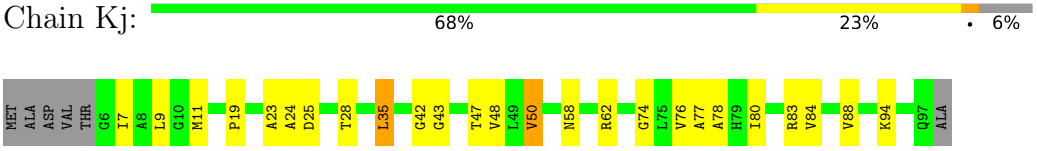
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Js:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kj:



• Molecule 1: Major carboxysome shell protein CsoS1A

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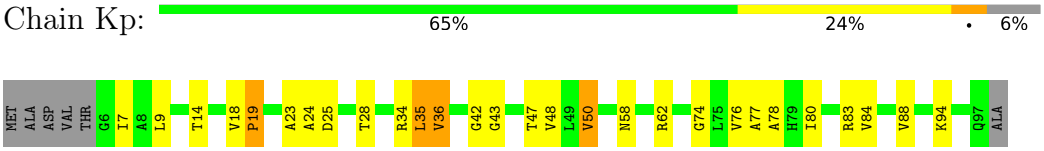
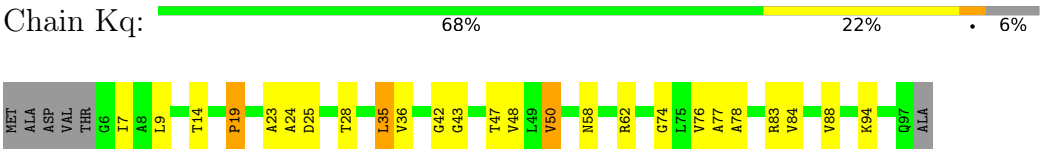


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Kq:



• Molecule 1: Major carboxysome shell protein CsoS1A

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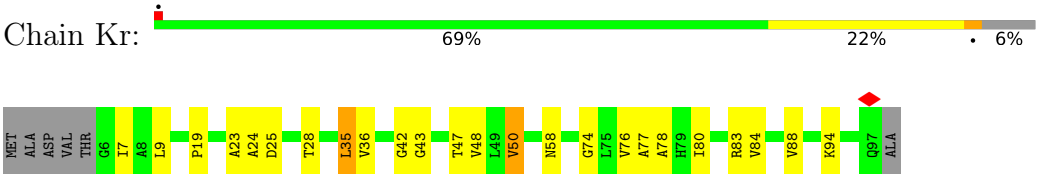
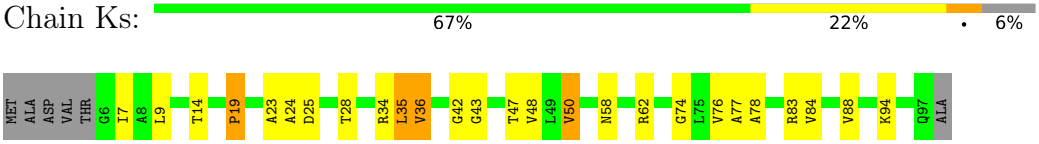


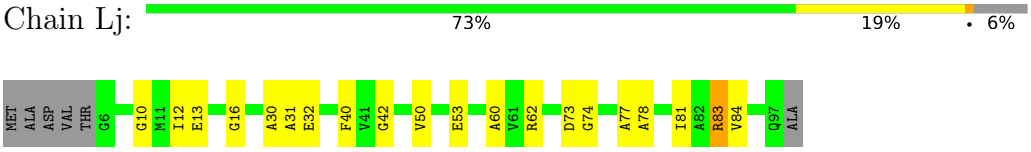
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ks:



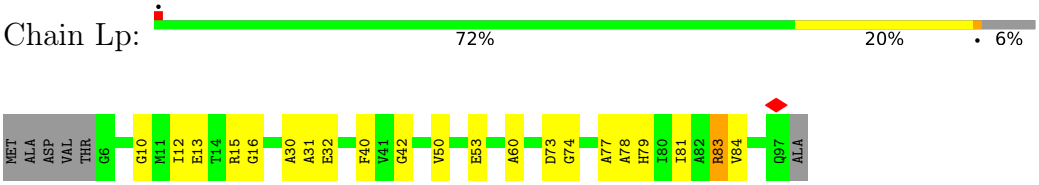
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lj:



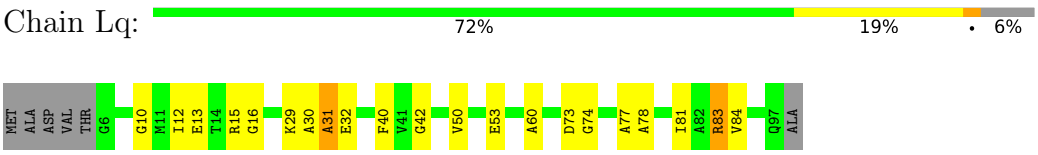
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lp:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lq:



• Molecule 1: Major carboxysome shell protein CsoS1A

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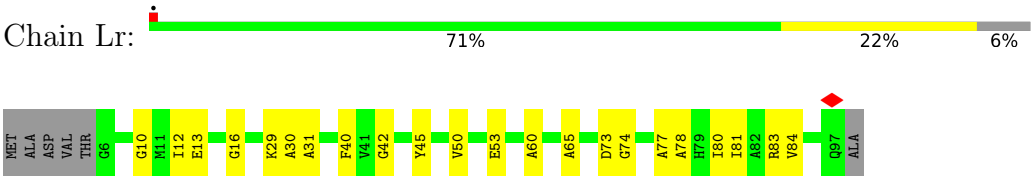
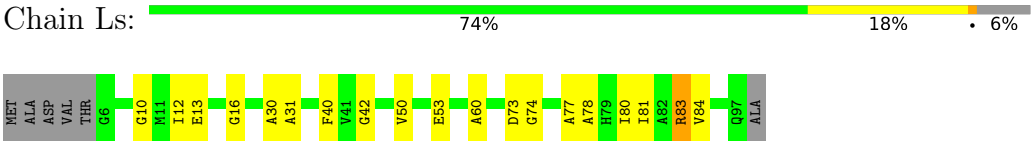


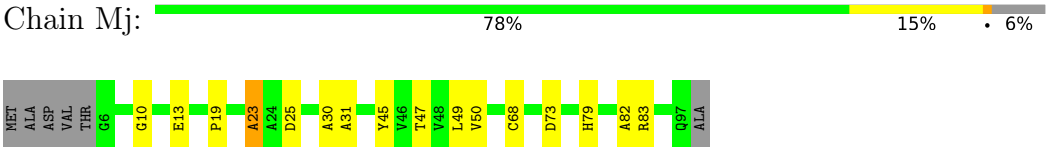
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ls:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mj:



• Molecule 1: Major carboxysome shell protein CsoS1A

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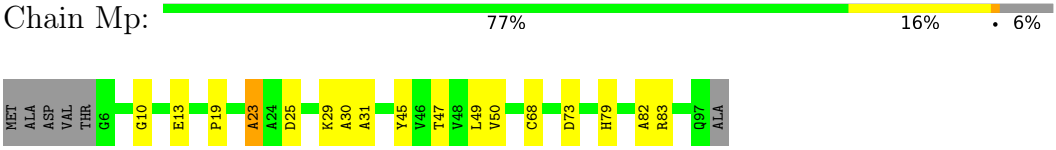
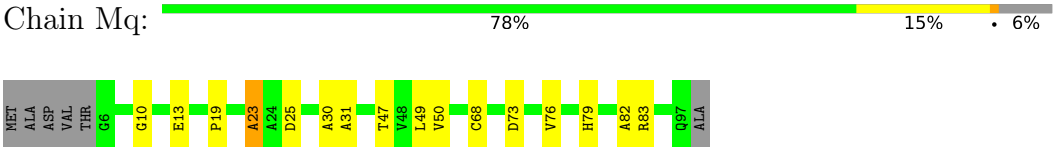


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mq:



• Molecule 1: Major carboxysome shell protein CsoS1A

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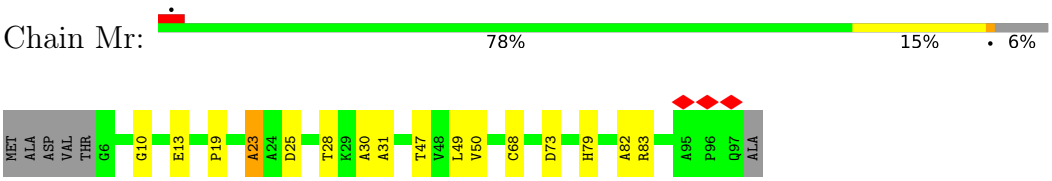
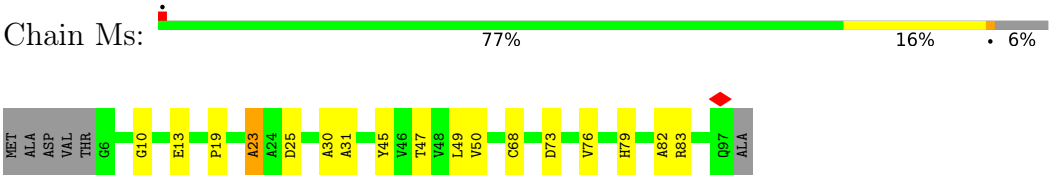


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ms:



• Molecule 1: Major carboxysome shell protein CsoS1A

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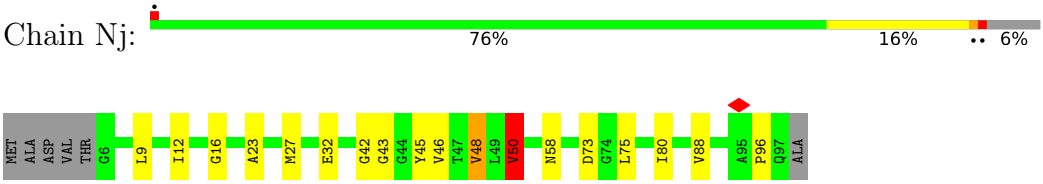
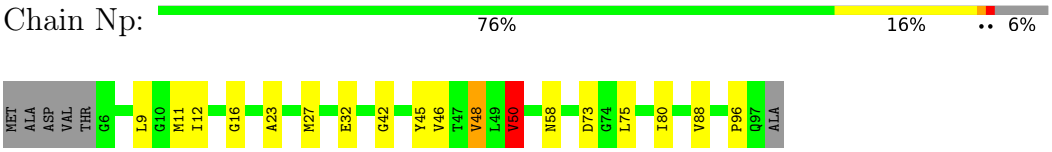


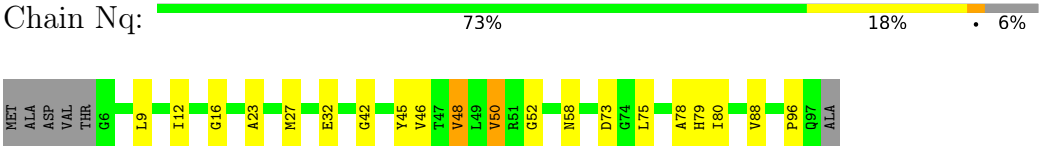
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Np:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nq:



• Molecule 1: Major carboxysome shell protein CsoS1A

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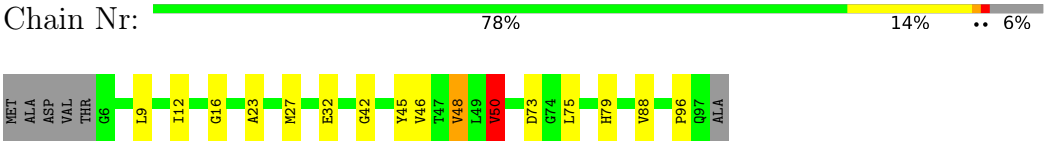
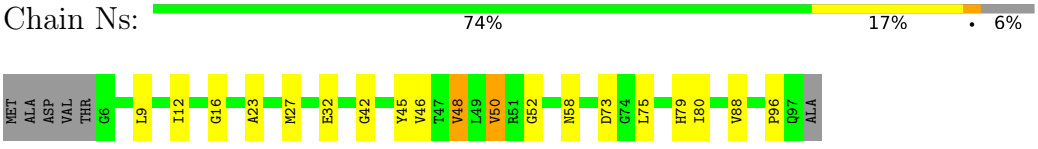


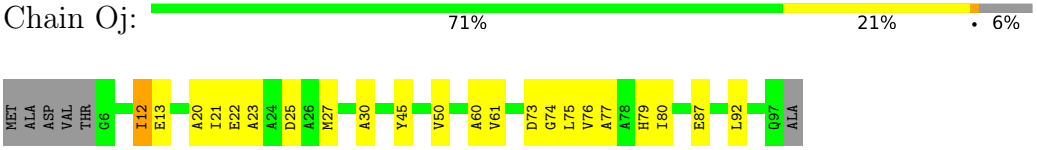
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Ns:



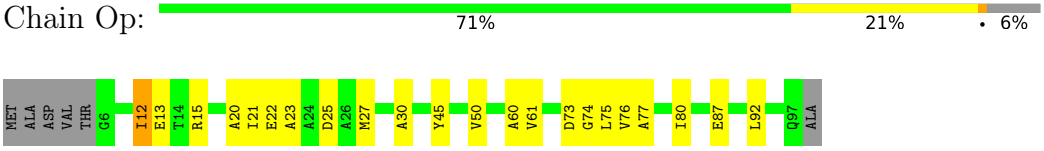
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Oj:



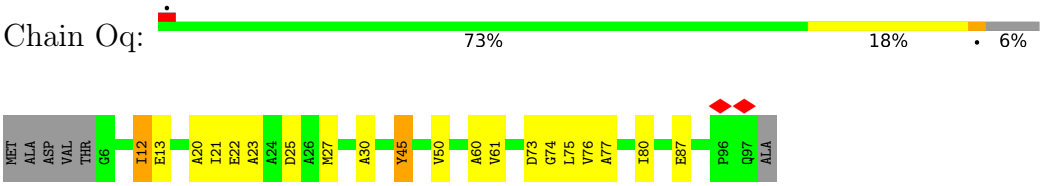
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Op:



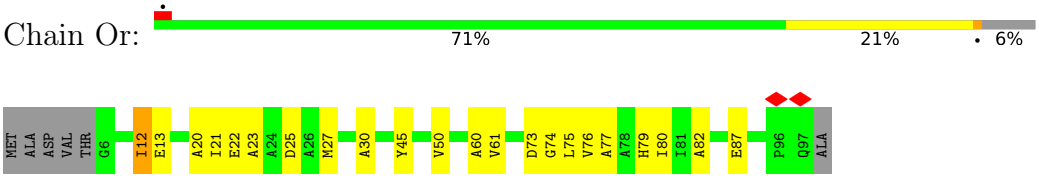
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Oq:



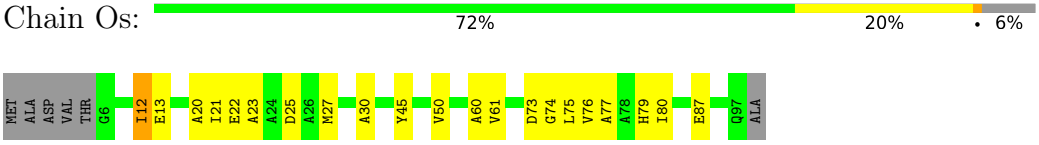
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Or:



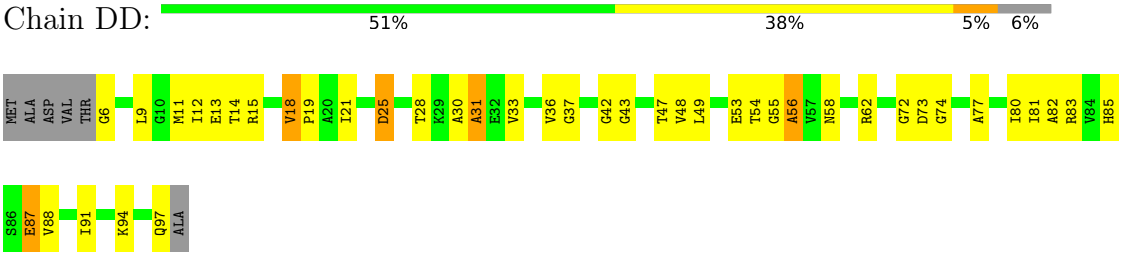
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Os:



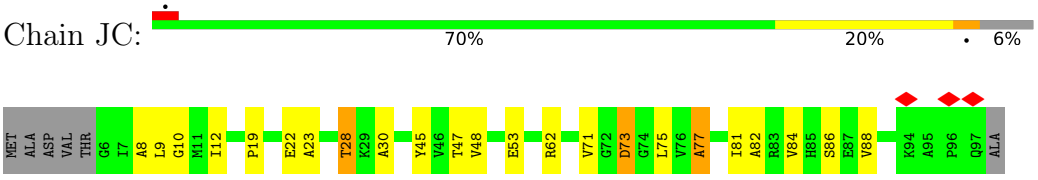
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DD:



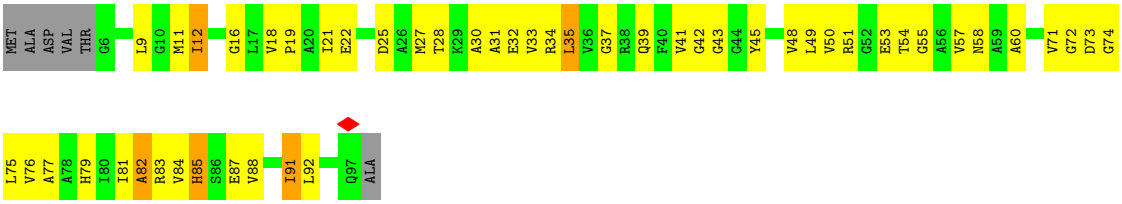
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JC:



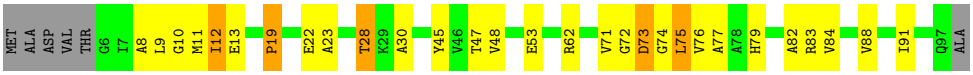
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D4:



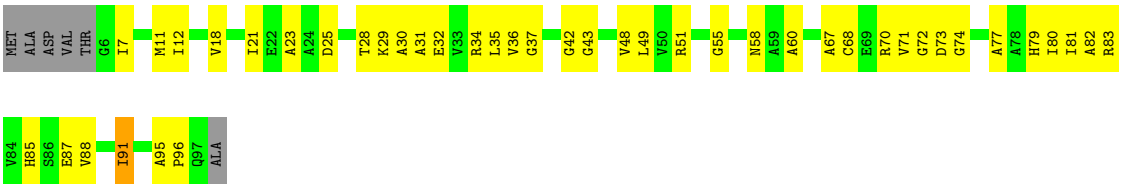
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain J3:



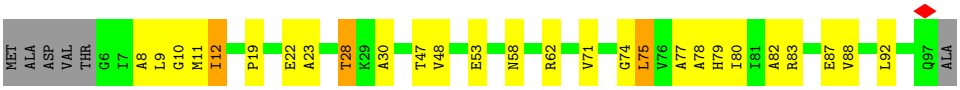
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D7:



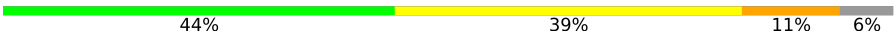
• Molecule 1: Major carboxysome shell protein CsoS1A

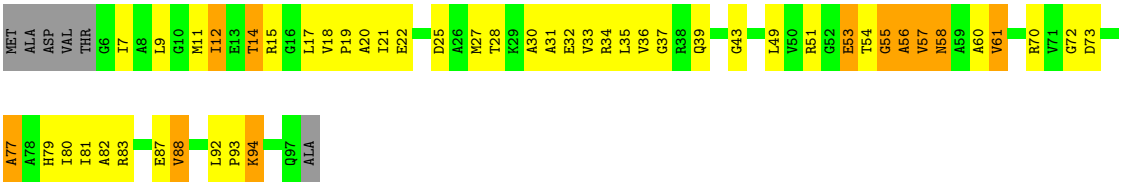
Chain J6:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DS:



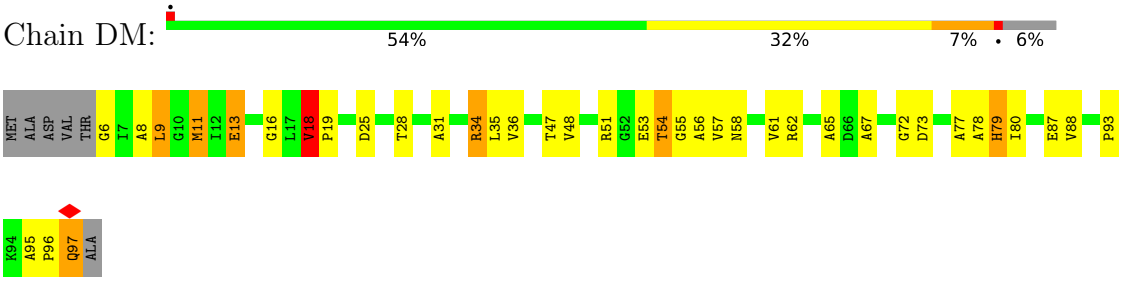


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EI:

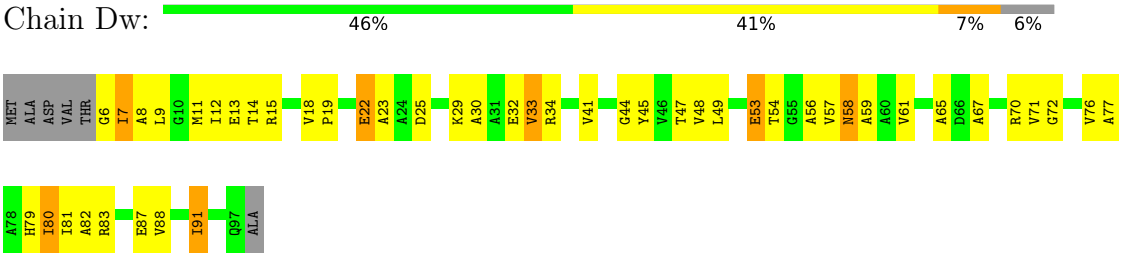
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DM:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dw:

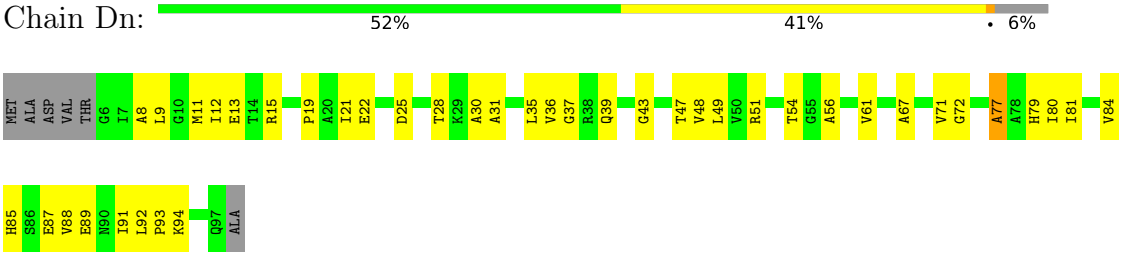


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jv:

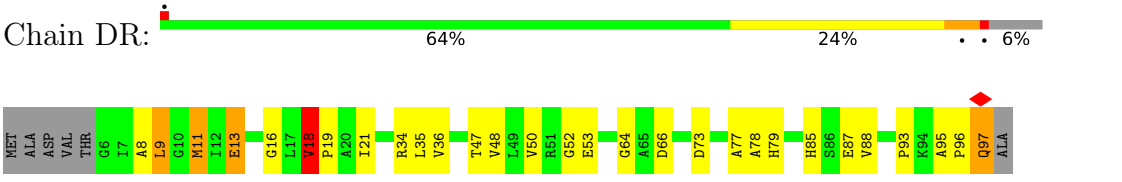
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dn:



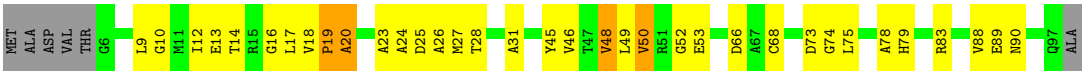
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DR:



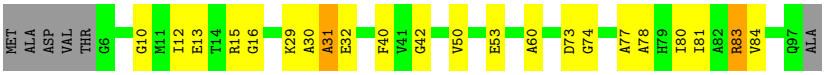
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FL:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LM:

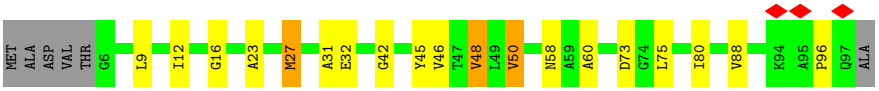


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LN:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NL:



• Molecule 1: Major carboxysome shell protein CsoS1A

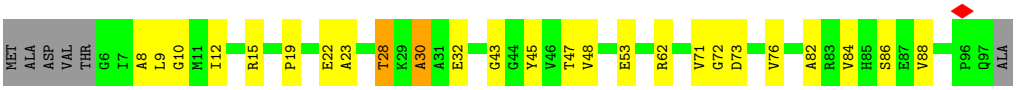
Chain Fh:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FY:

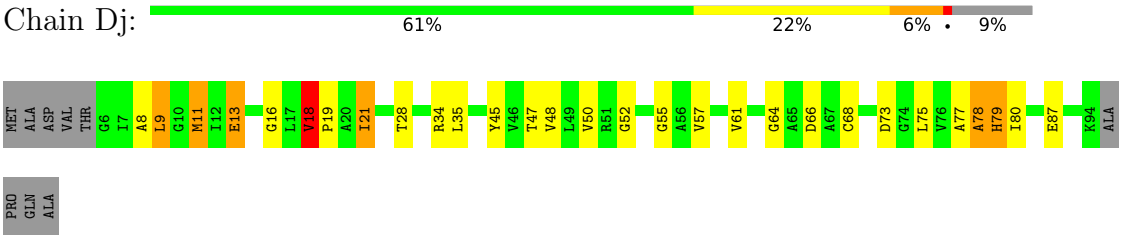
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JY:



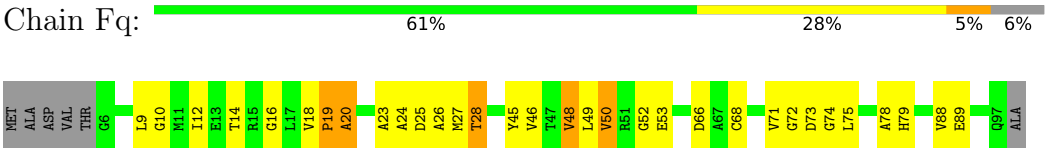
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dj:



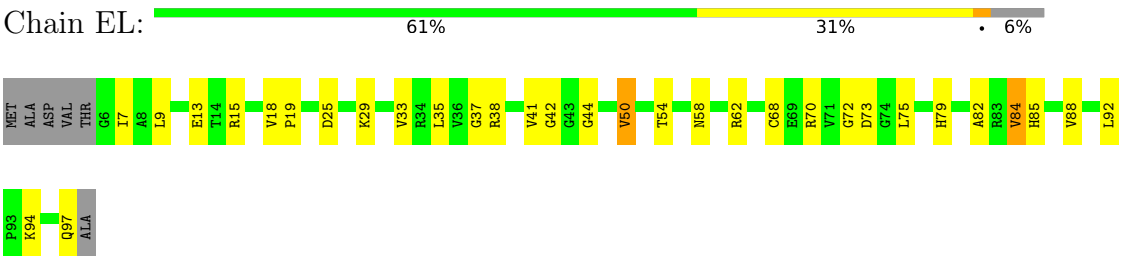
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fq:



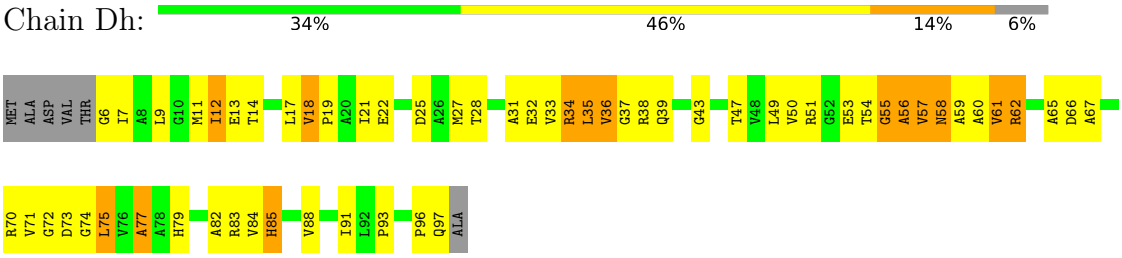
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EL:



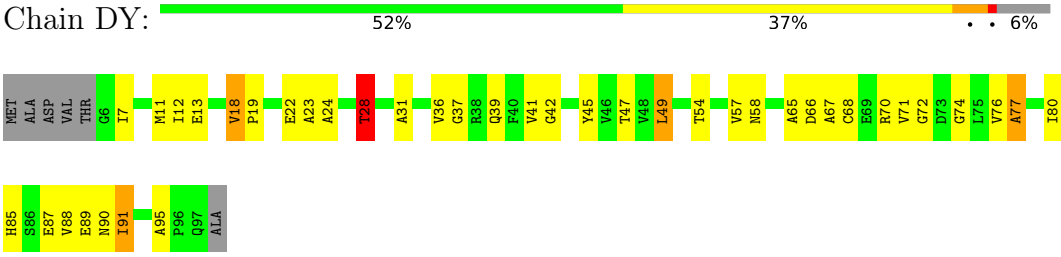
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dh:



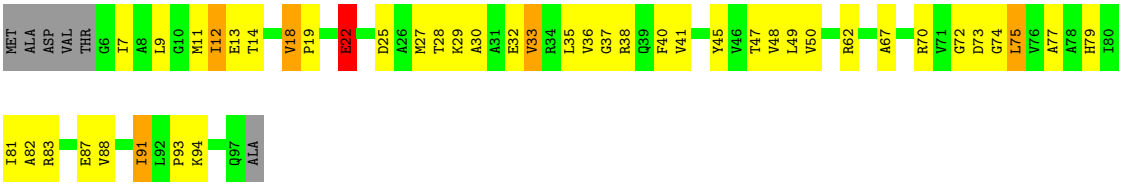
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DY:



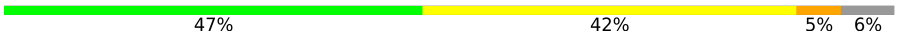
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Db:



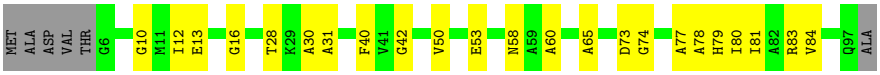
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dq:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain L3:

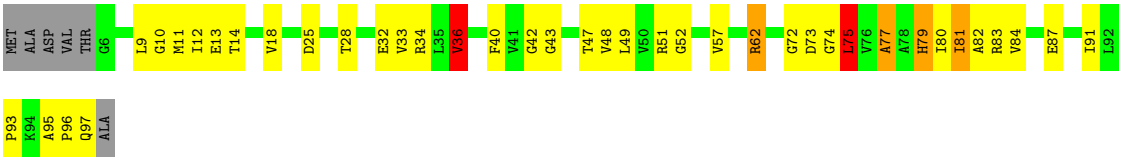


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Em:

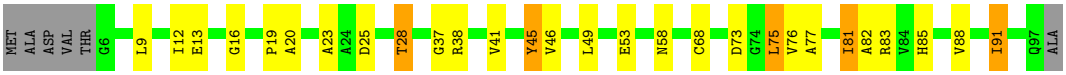
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DJ:



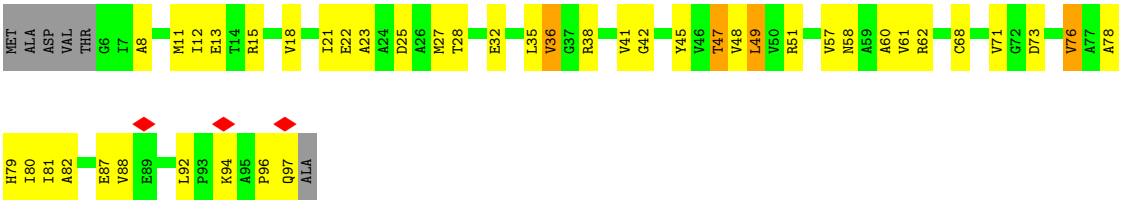
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain E3:



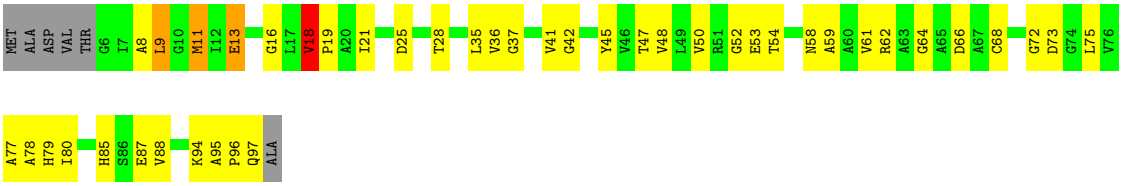
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DH:



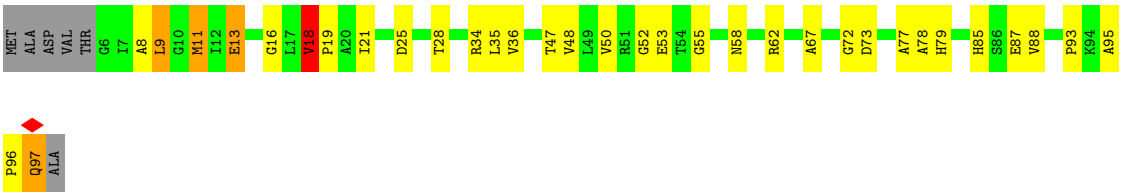
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DI:



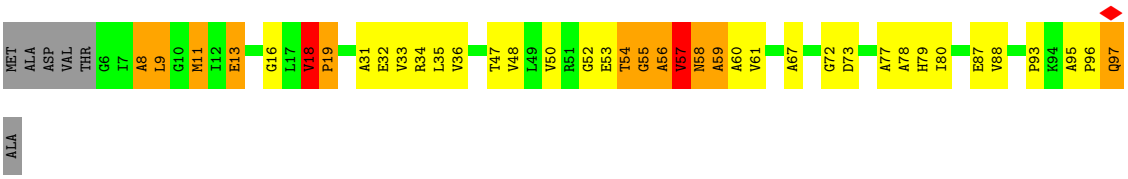
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain D6:



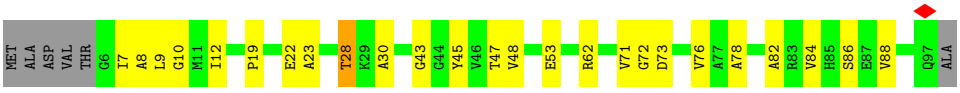
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Df:



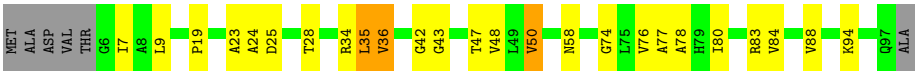
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JI:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain KI:

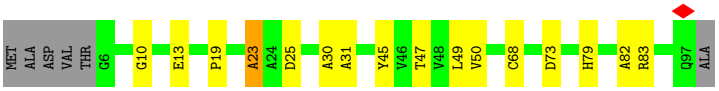


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain LI:

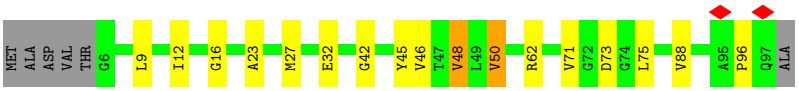
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MI:



• Molecule 1: Major carboxysome shell protein CsoS1A

Chain NI:

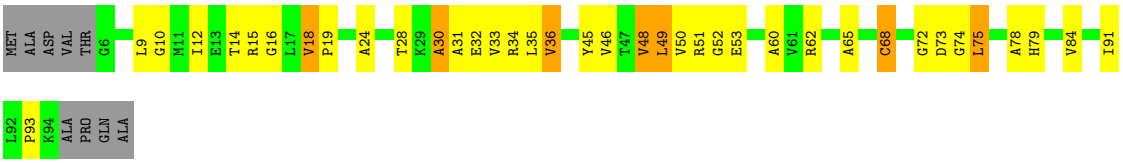


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain OI:

• Molecule 1: Major carboxysome shell protein CsoS1A

Chain FF:

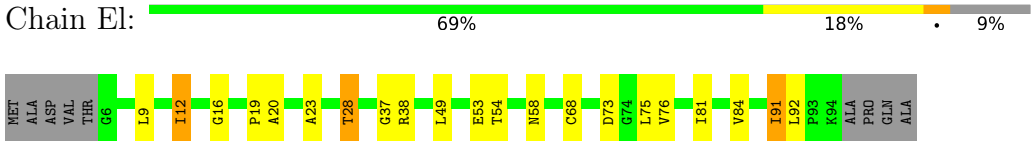


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JU:

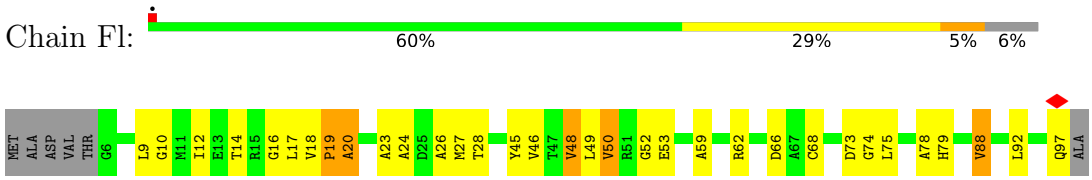
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain El:



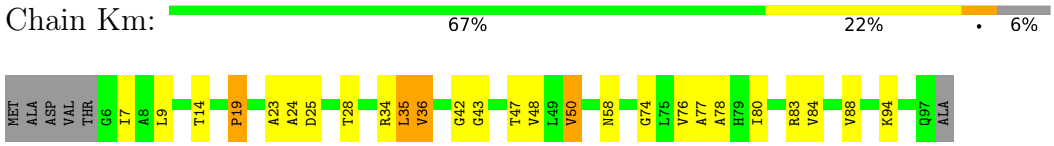
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Fl:



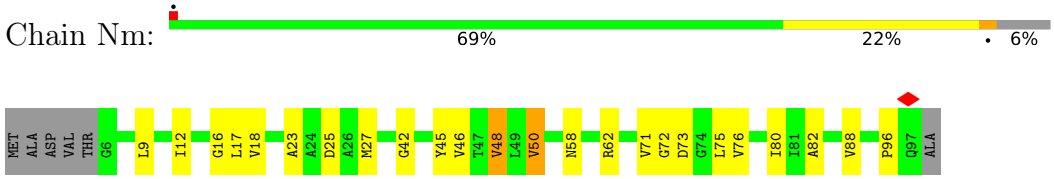
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Km:



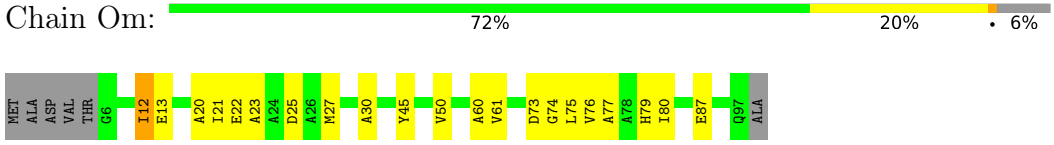
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Nm:



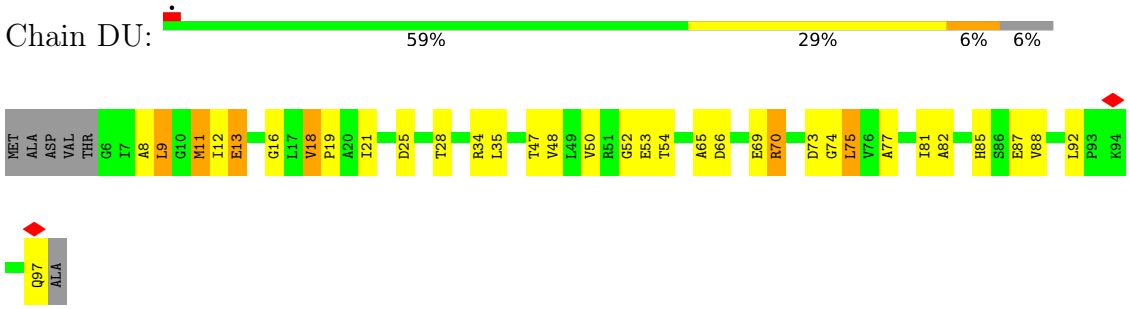
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Om:



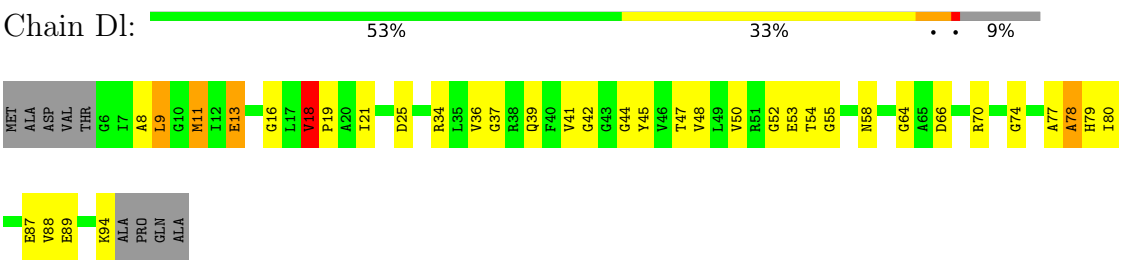
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DU:



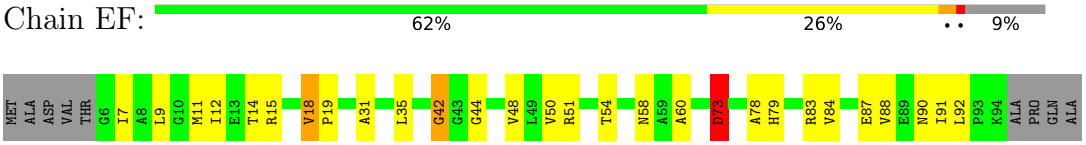
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Dl:



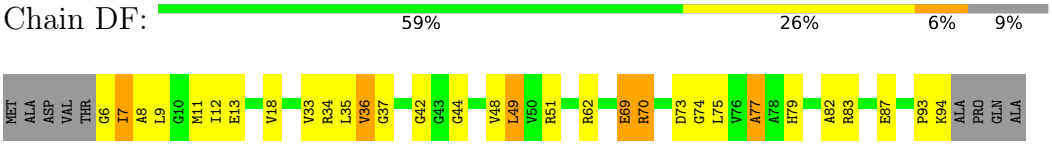
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain EF:



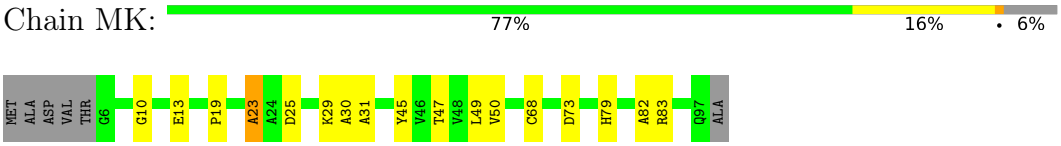
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain DF:



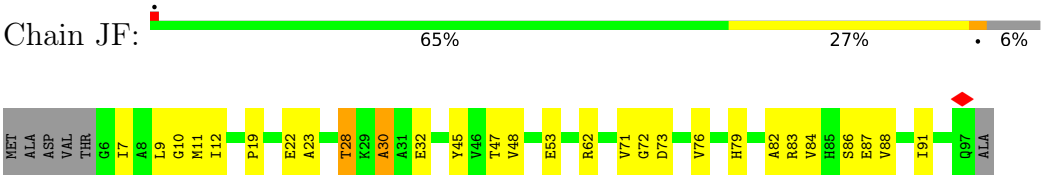
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MK:



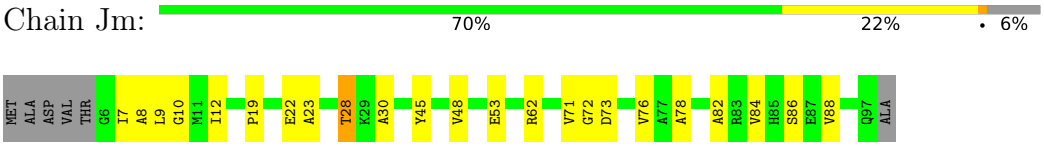
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain JF:



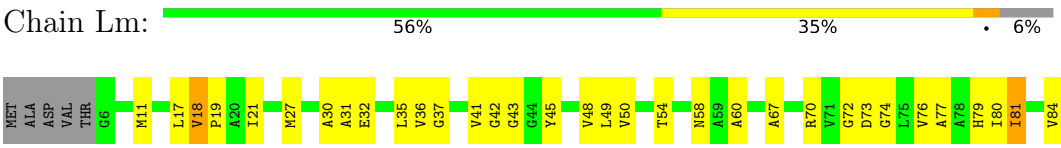
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Jm:

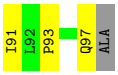


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Lm:



• Molecule 1: Major carboxysome shell protein CsoS1A

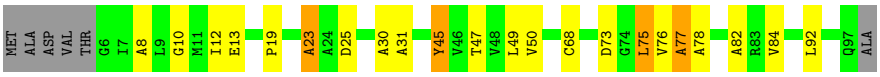


• Molecule 1: Major carboxysome shell protein CsoS1A

Chain MF:

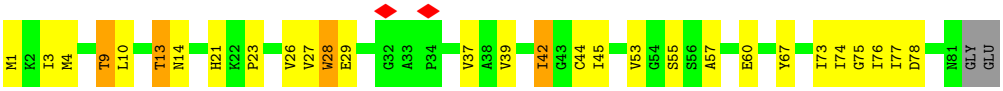
• Molecule 1: Major carboxysome shell protein CsoS1A

Chain Mm:



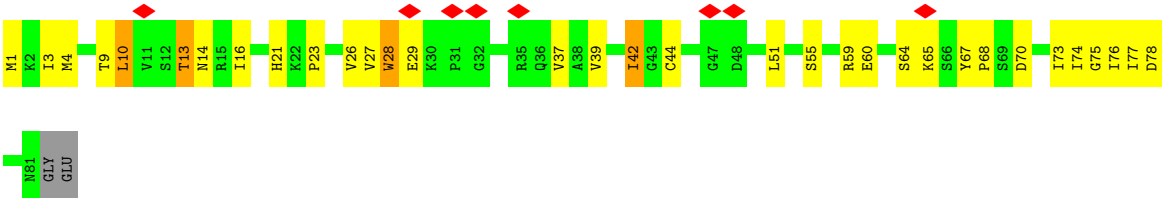
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PA:



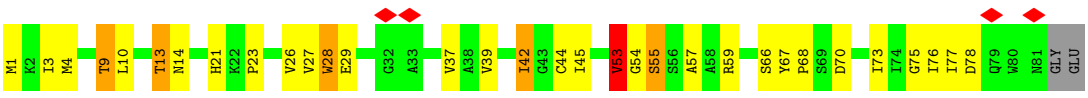
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PB:



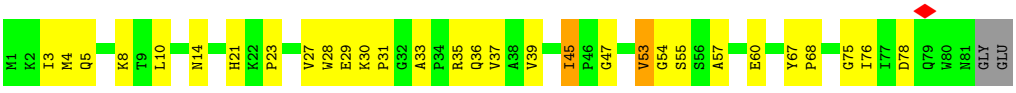
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PC:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PD:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

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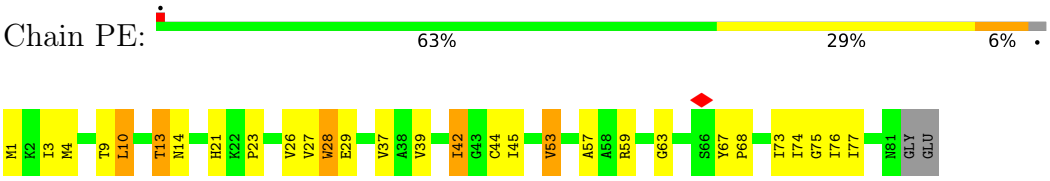
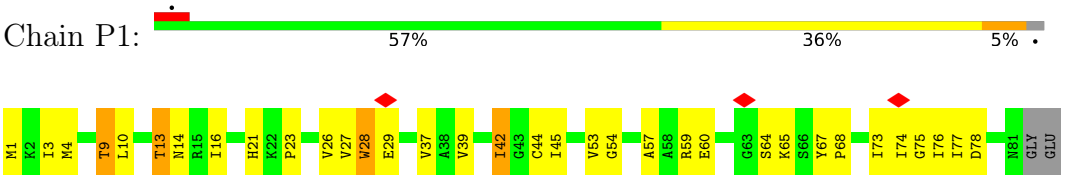


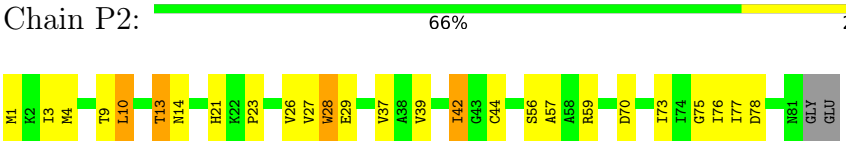
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P1:



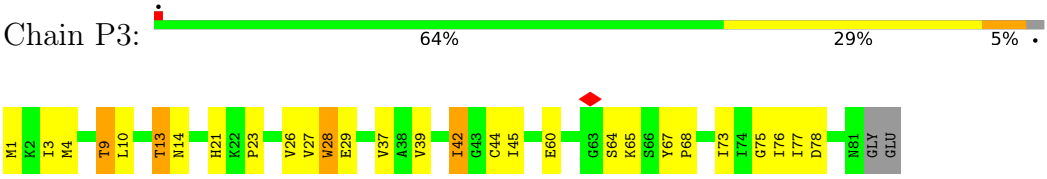
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P2:



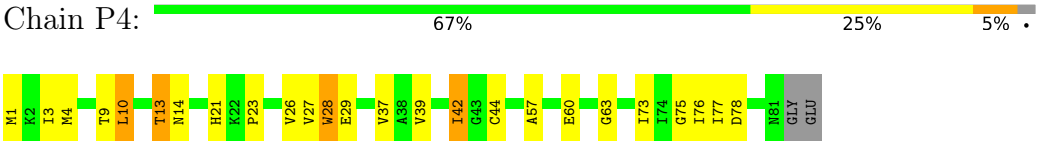
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P3:



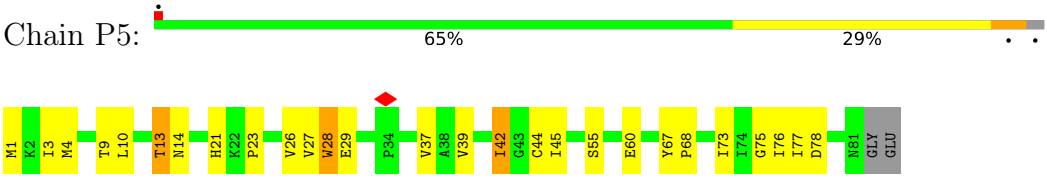
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P4:



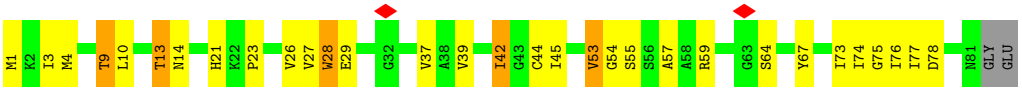
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P5:



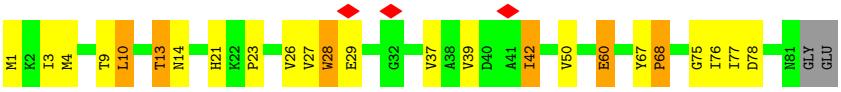
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P6:



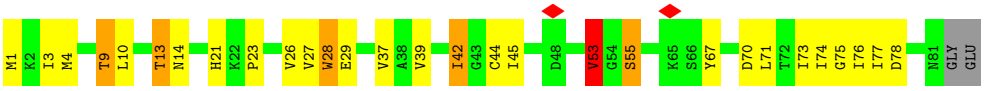
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P7:



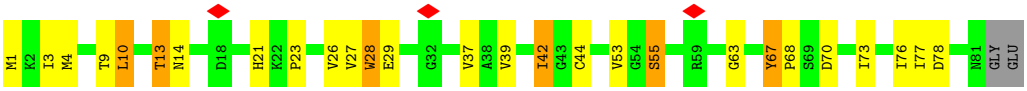
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P8:



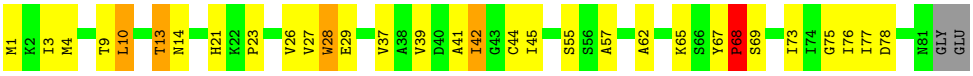
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P9:



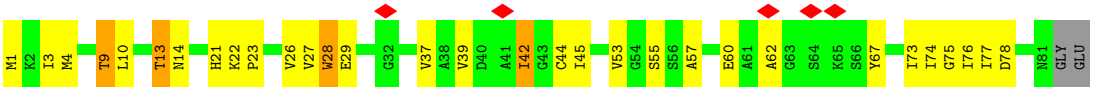
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain P0:



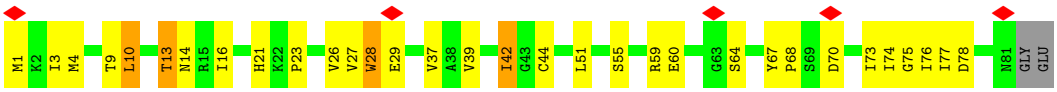
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PP:



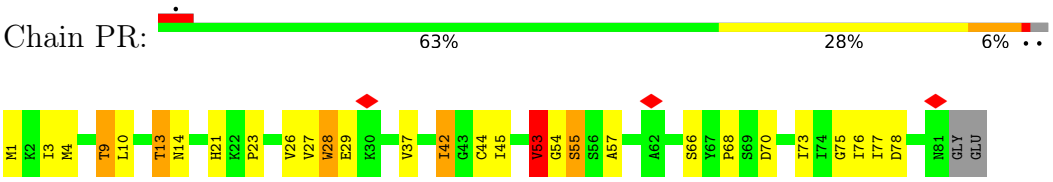
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PQ:



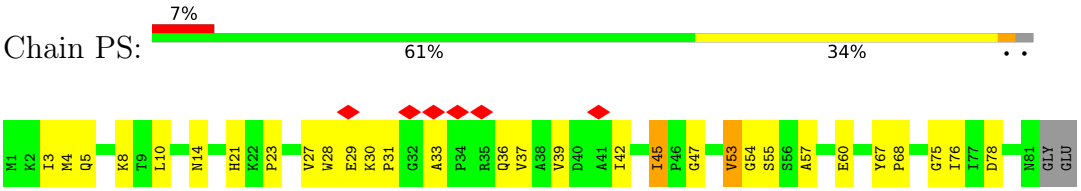
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PR:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PS:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

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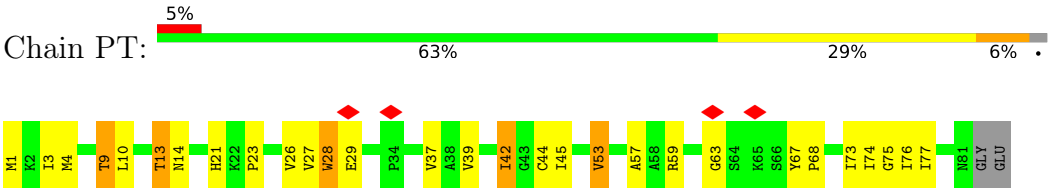

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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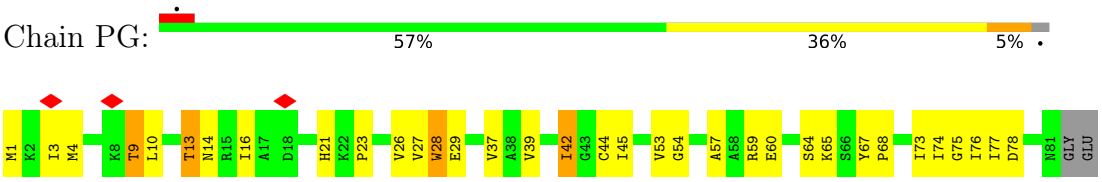

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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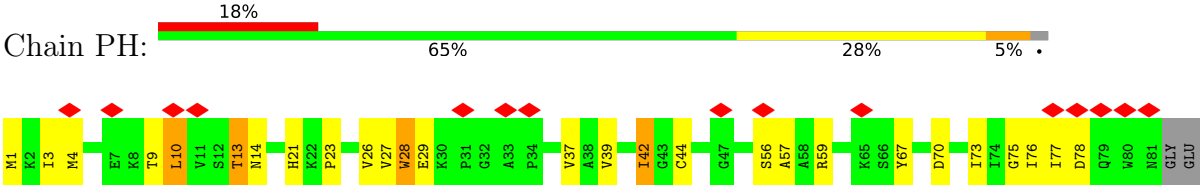

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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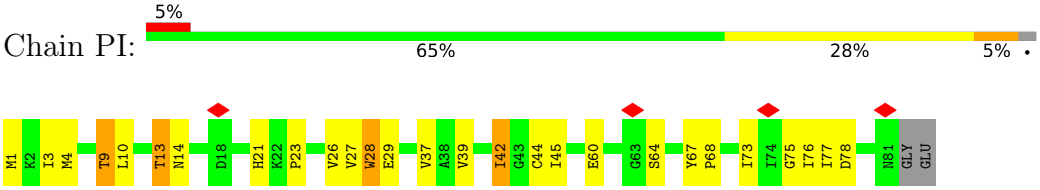
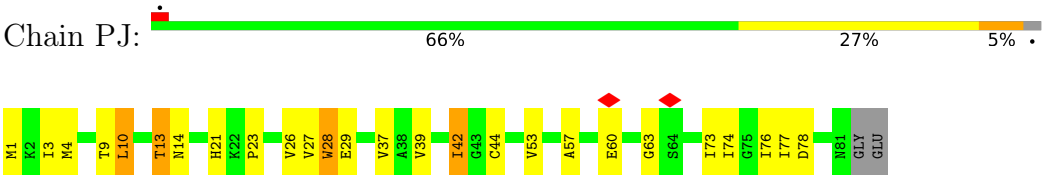


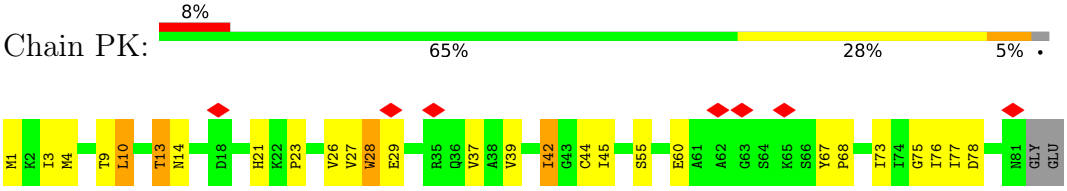
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PJ:



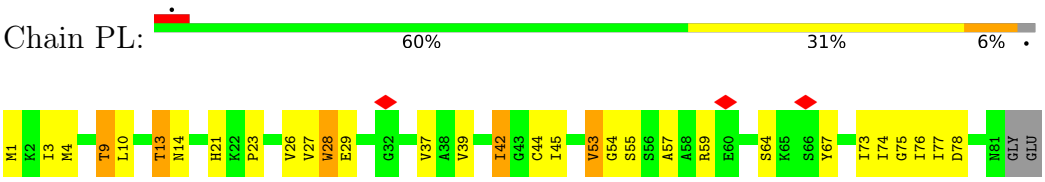
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PK:



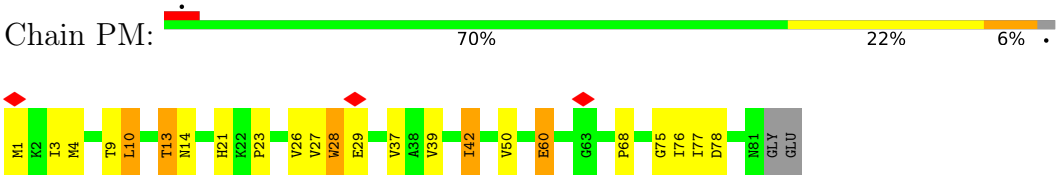
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PL:



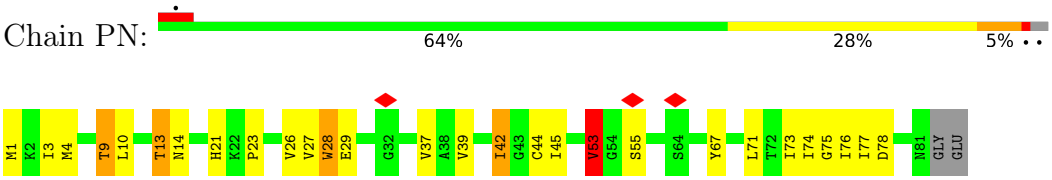
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PM:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PN:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

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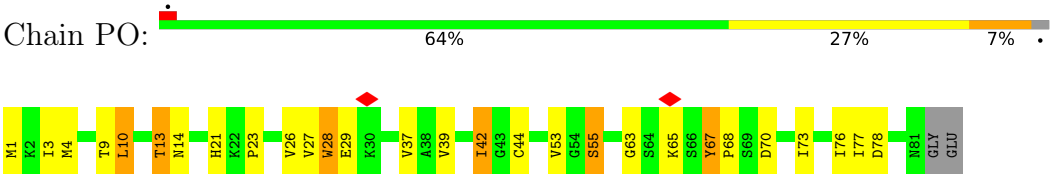

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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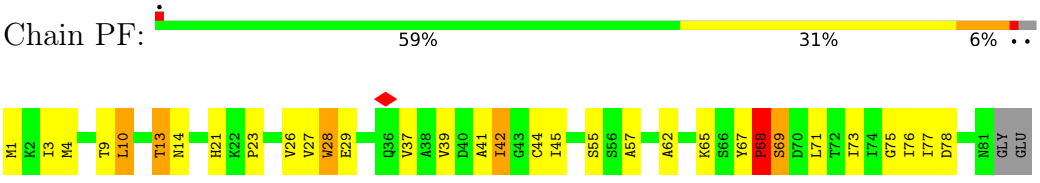
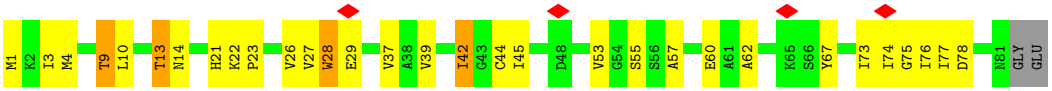


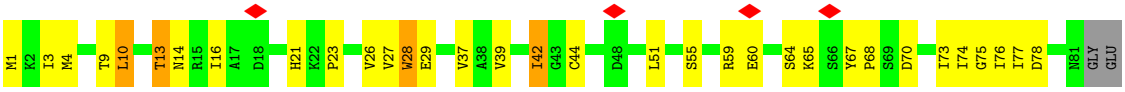
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pe:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pf:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

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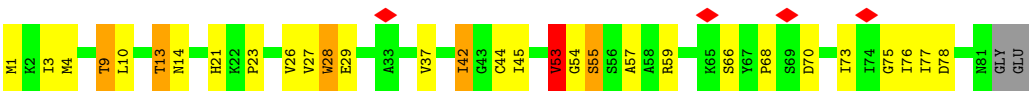
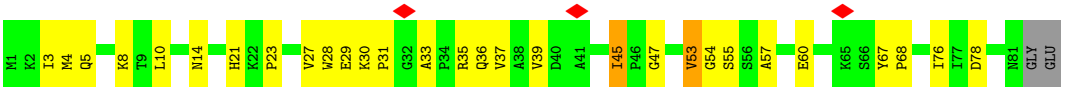


• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Ph:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

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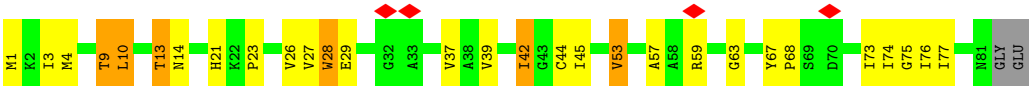

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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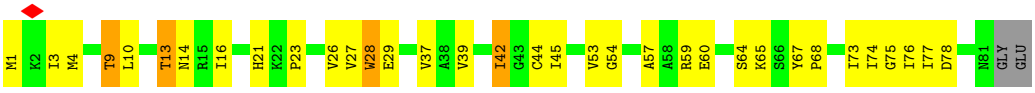

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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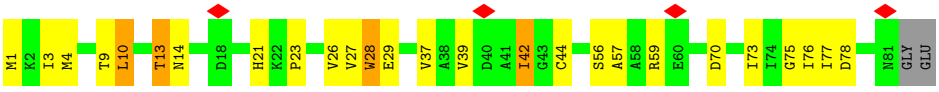

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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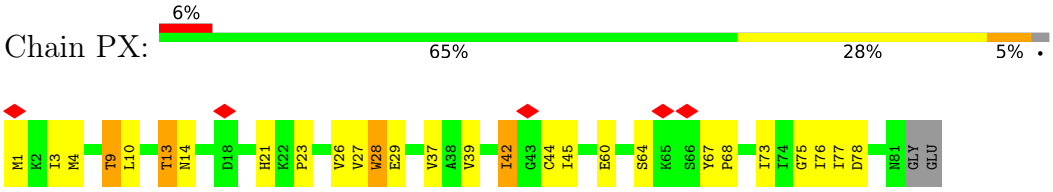
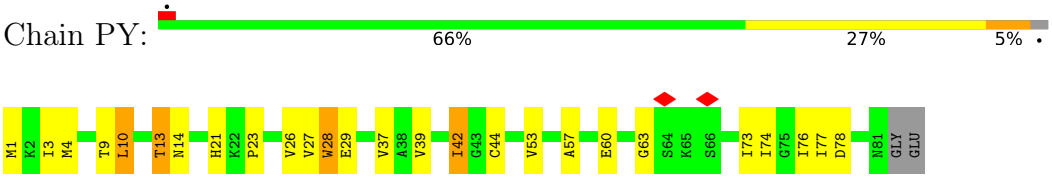


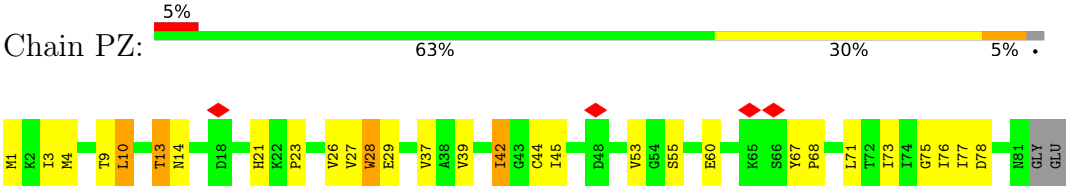
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PY:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PZ:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

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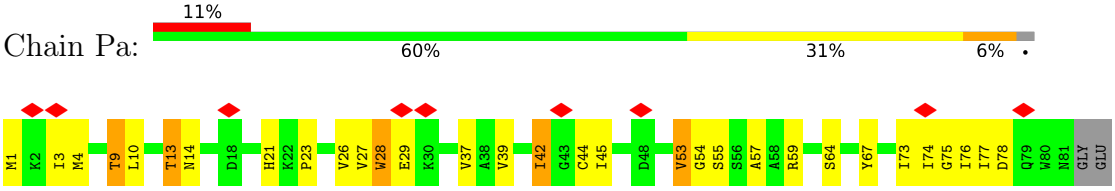

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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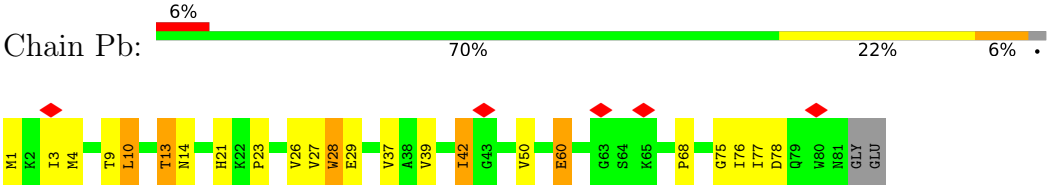

• Molecule 2: Carboxysome shell vertex protein CsoS4A

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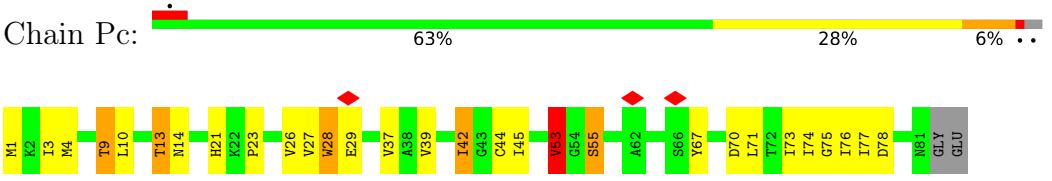
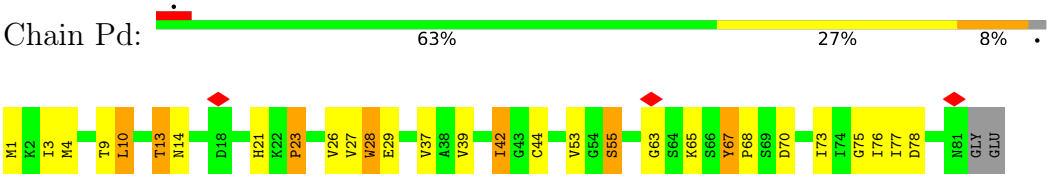


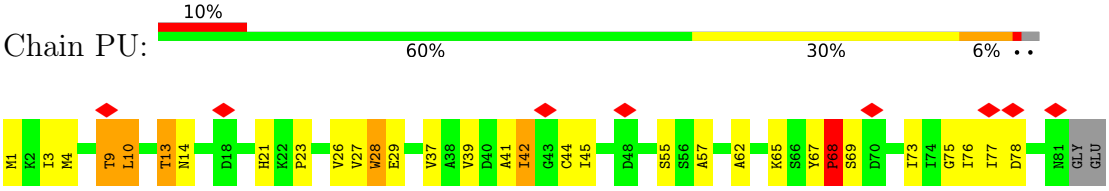
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pd:



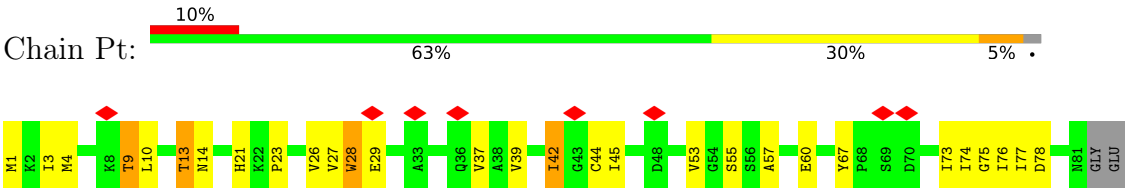
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain PU:



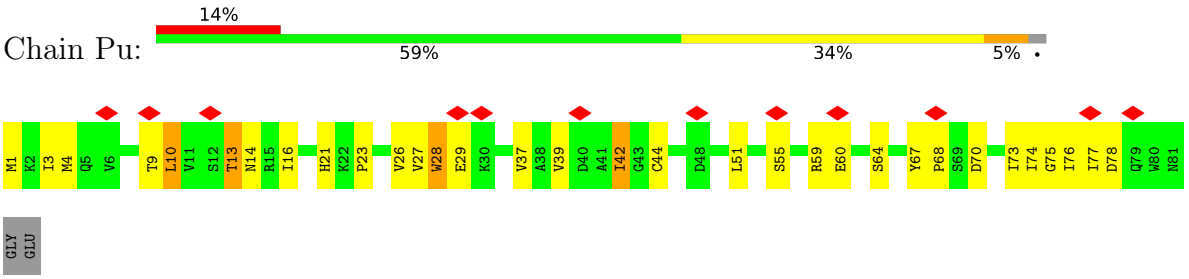
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pt:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pu:



• Molecule 2: Carboxysome shell vertex protein CsoS4A

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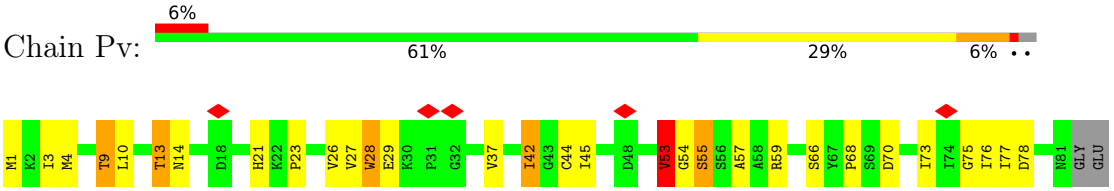
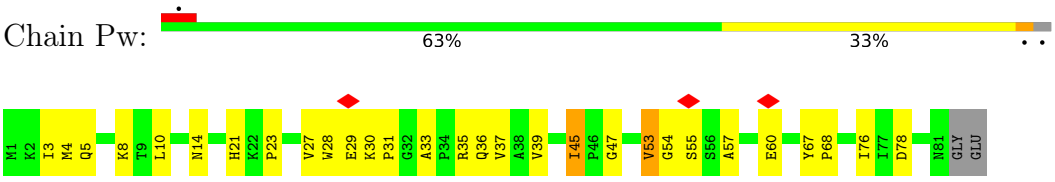


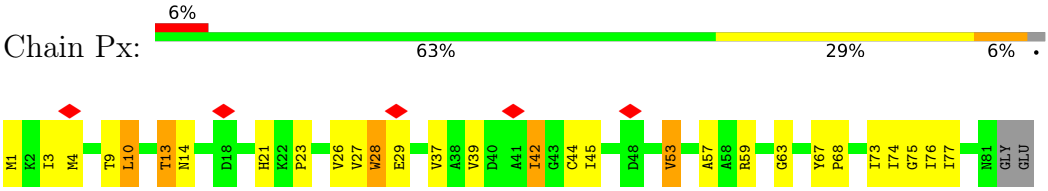
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pw:



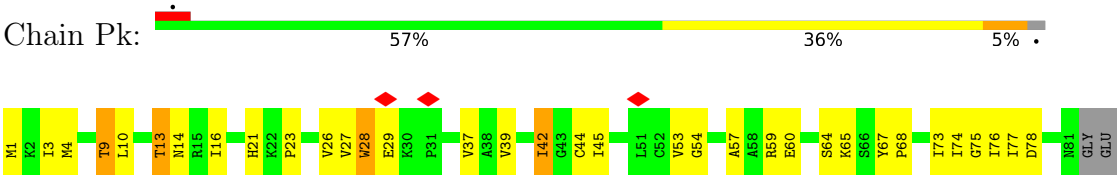
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Px:



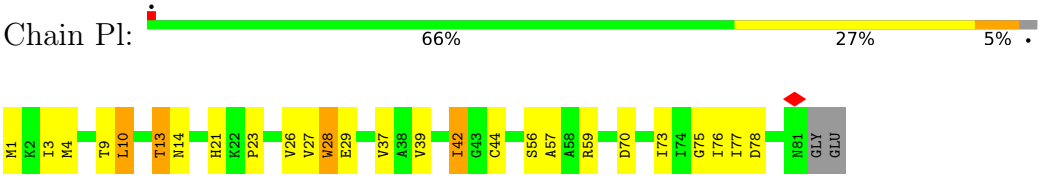
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pk:



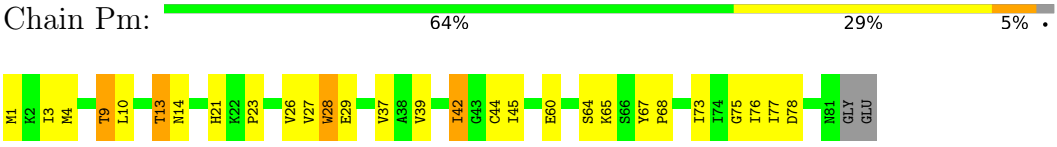
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pl:



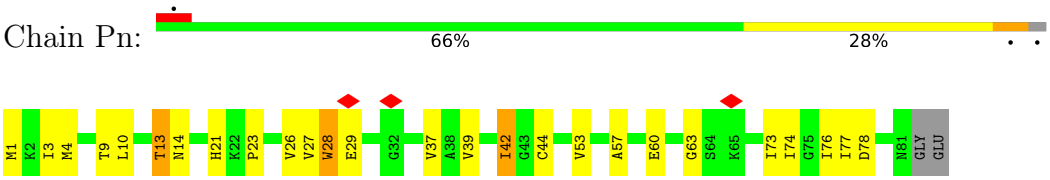
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pm:



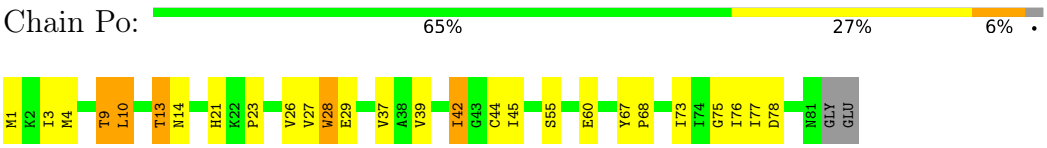
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pn:



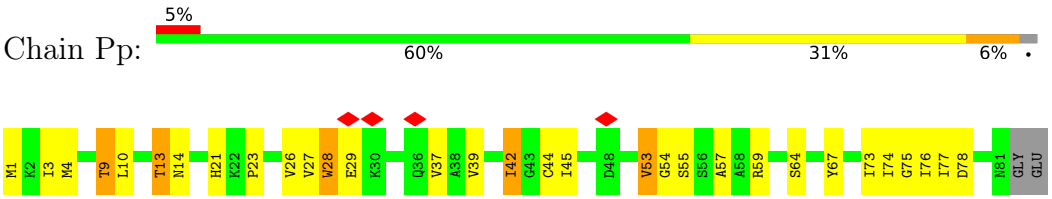
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Po:



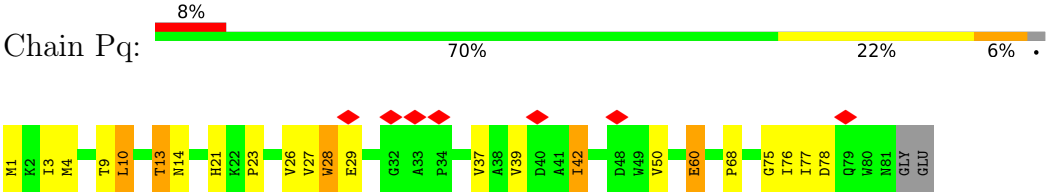
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pp:



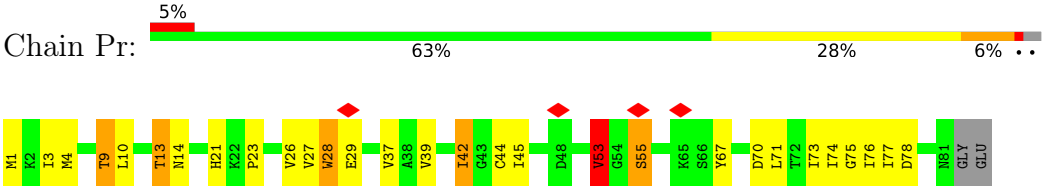
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pq:



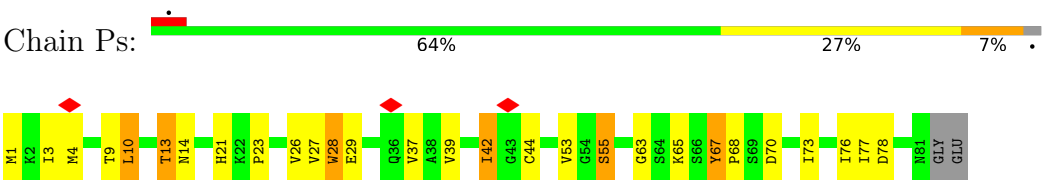
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Pr:



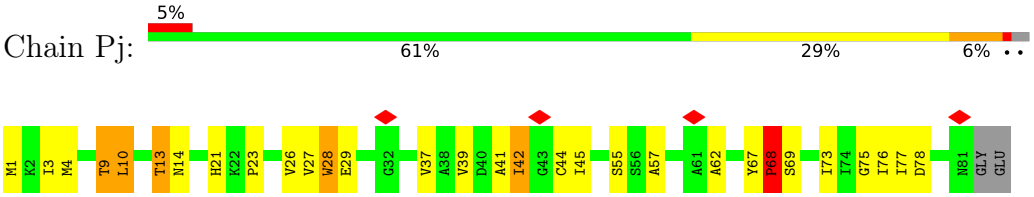
• Molecule 2: Carboxysome shell vertex protein CsoS4A

Chain Ps:



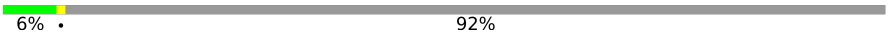
• Molecule 2: Carboxysome shell vertex protein CsoS4A

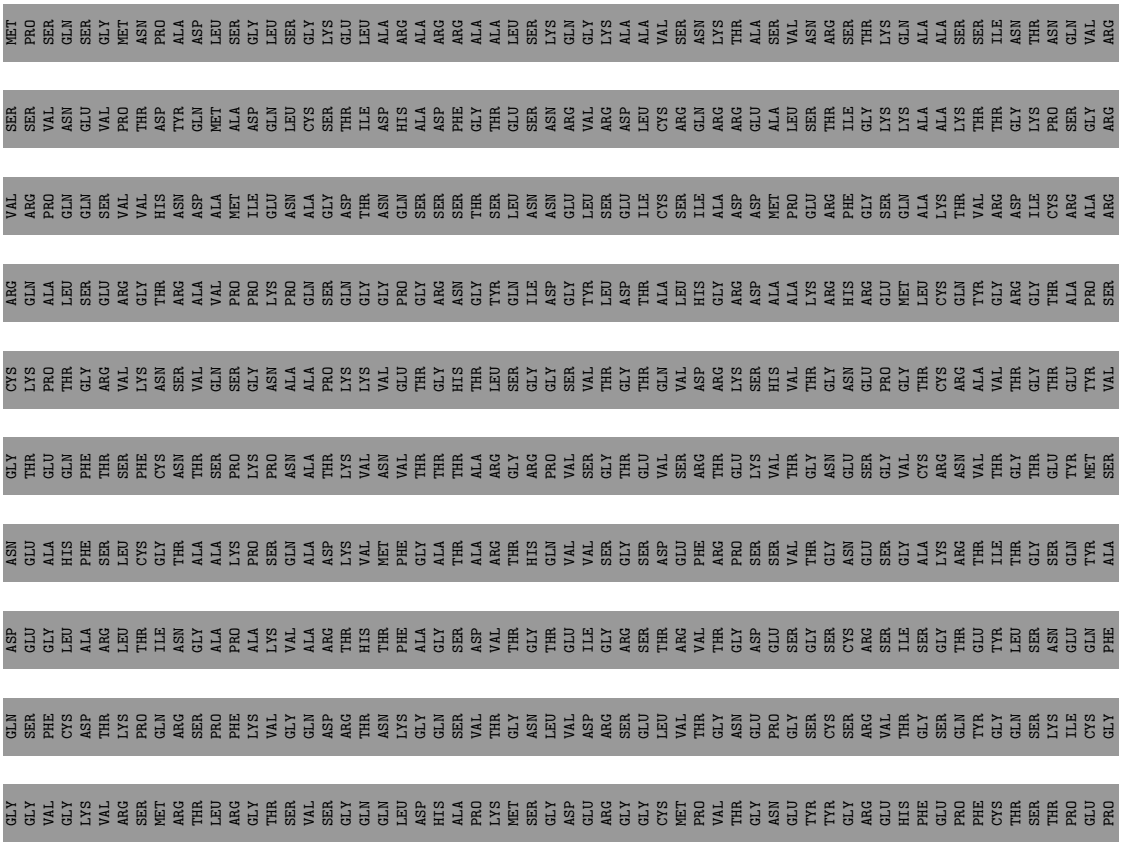
Chain Pj:

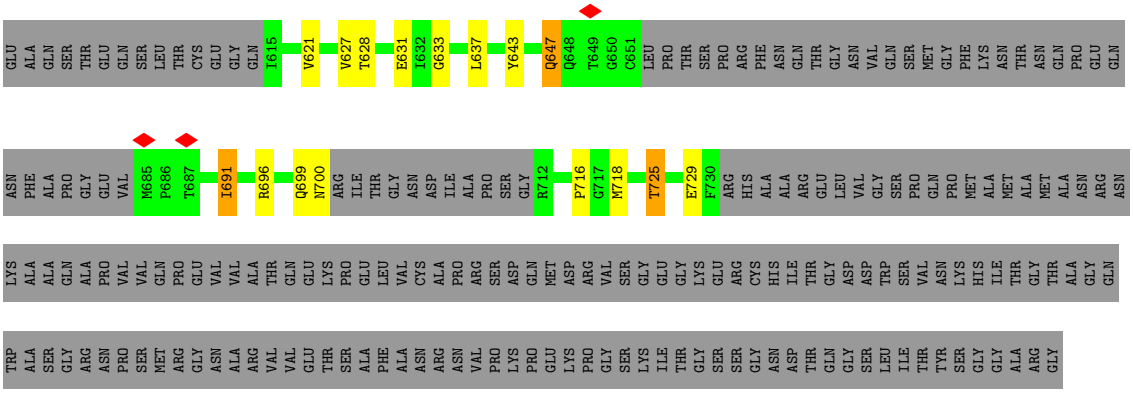


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain XA:

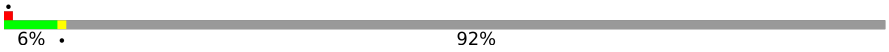


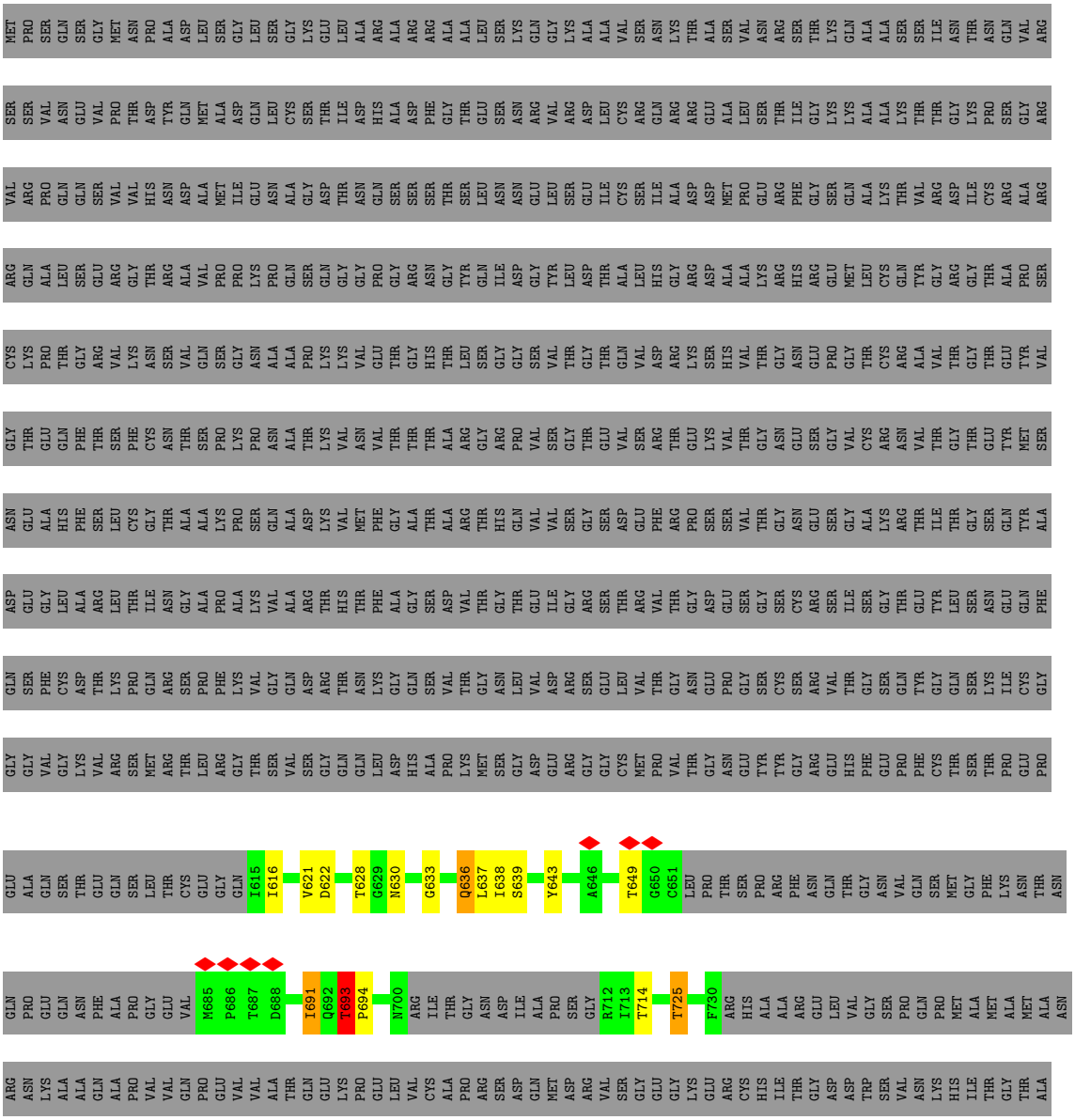




• Molecule 3: Carboxysome assembly protein CsoS2B

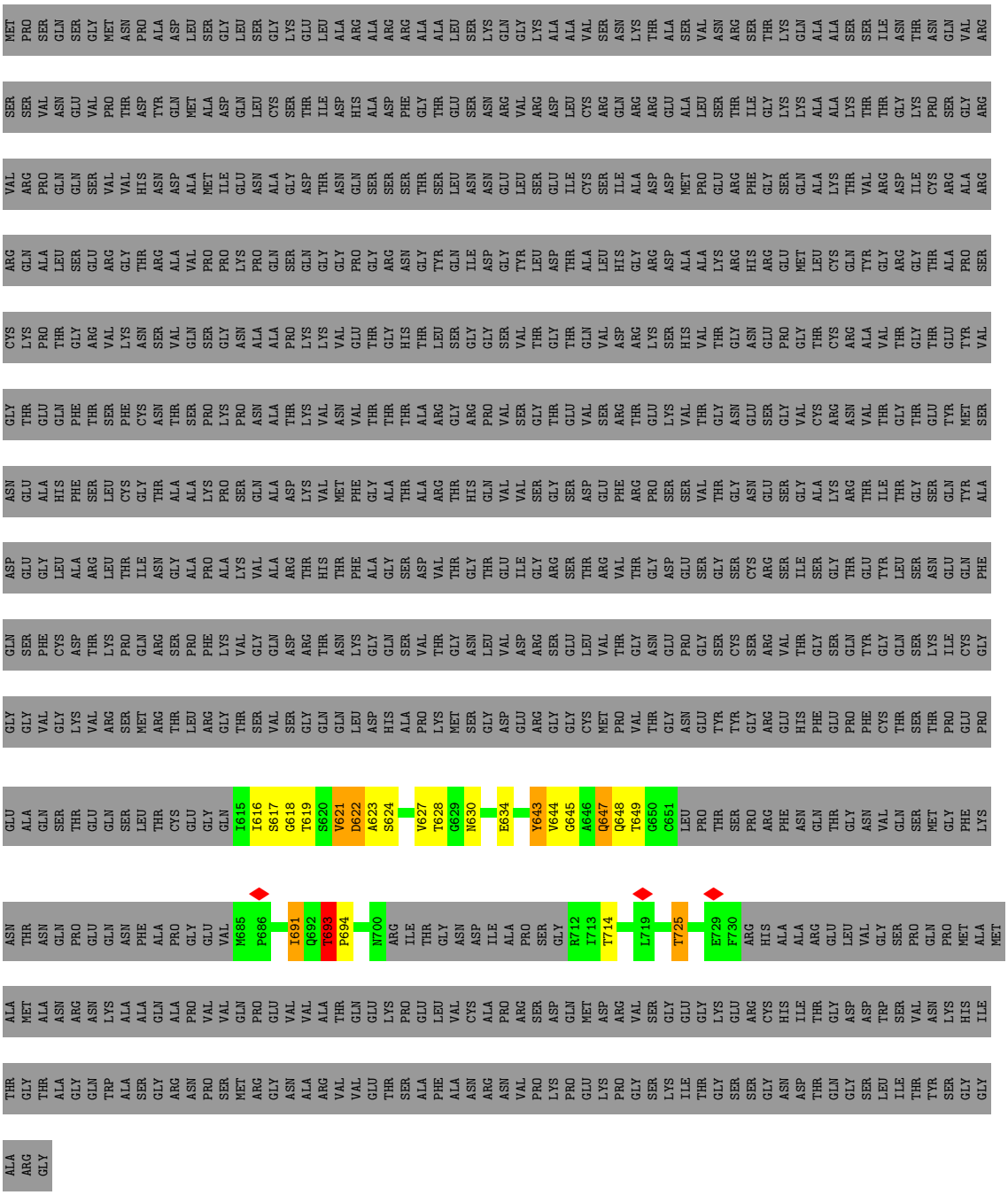
Chain XB:





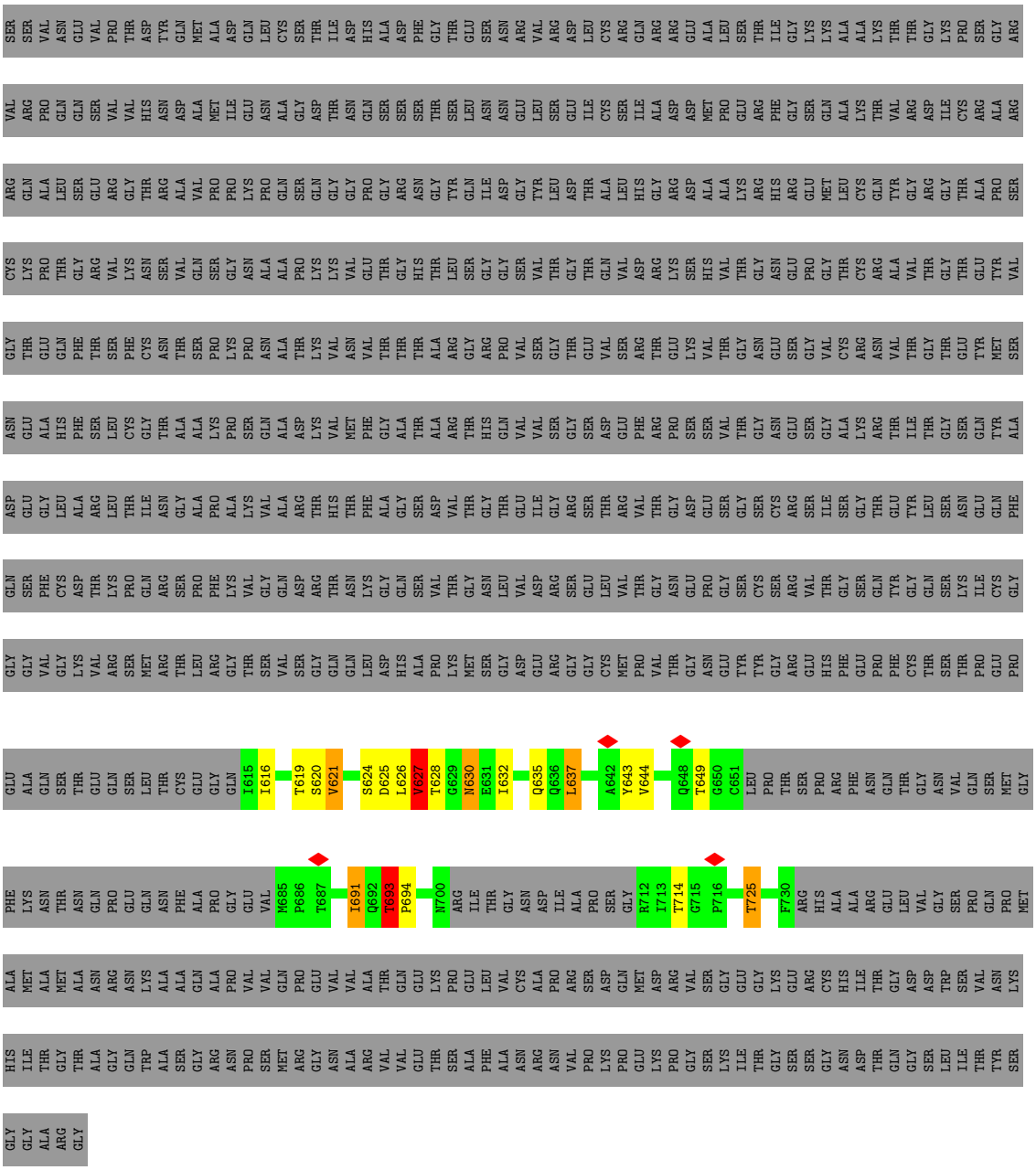
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain XC: 6% 92%



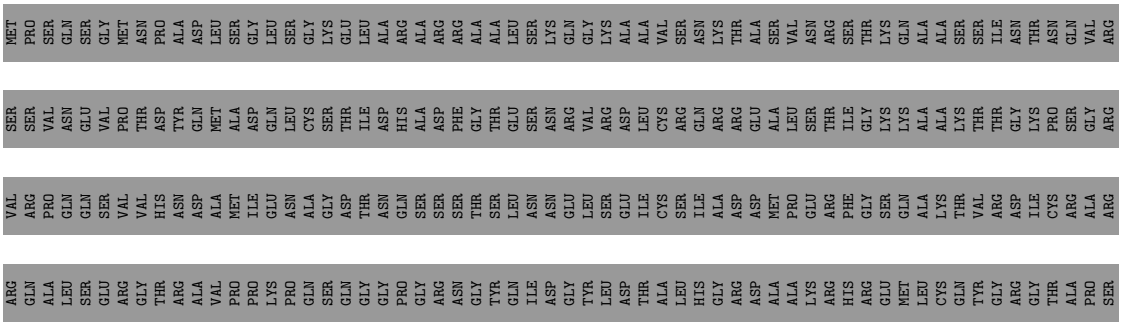
• Molecule 3: Carboxysome assembly protein CsoS2B

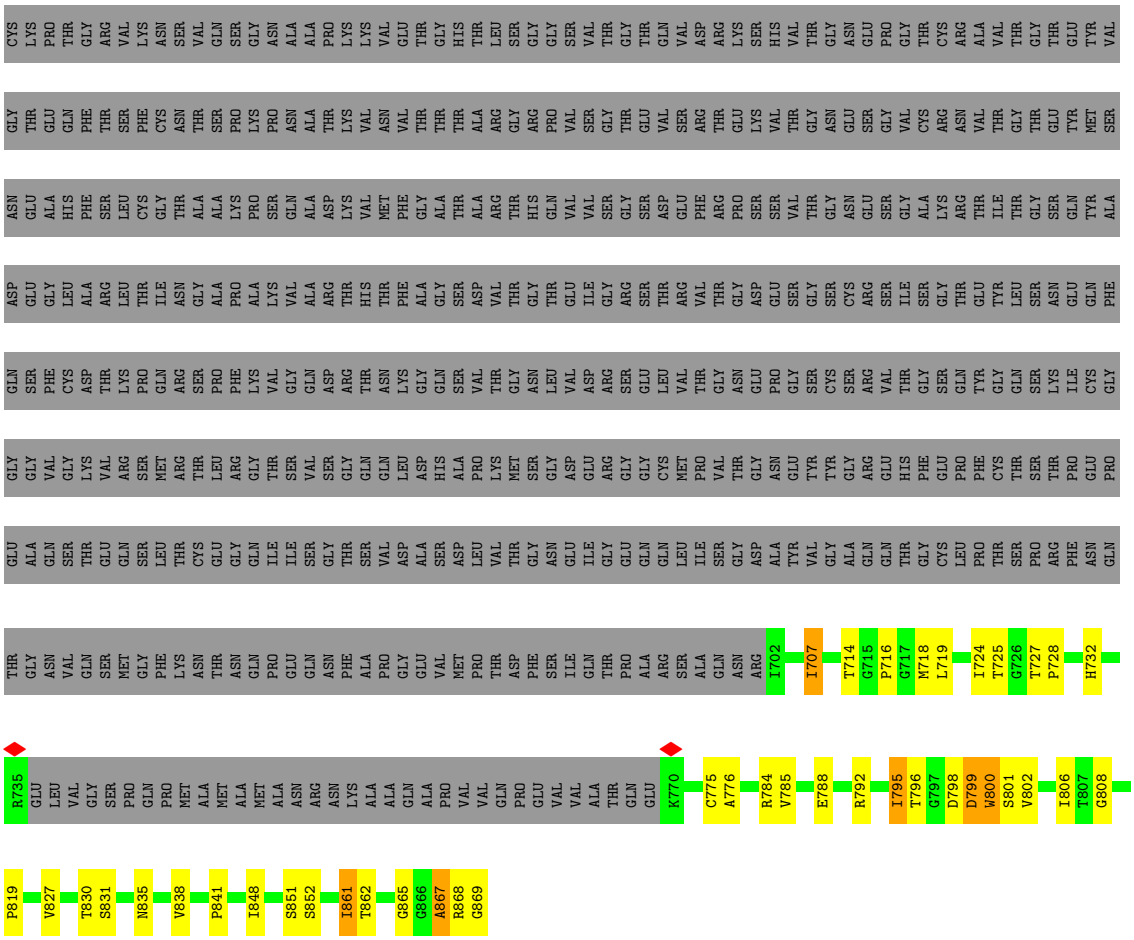
Chain XE: 6% 92%



• Molecule 3: Carboxysome assembly protein CsoS2B

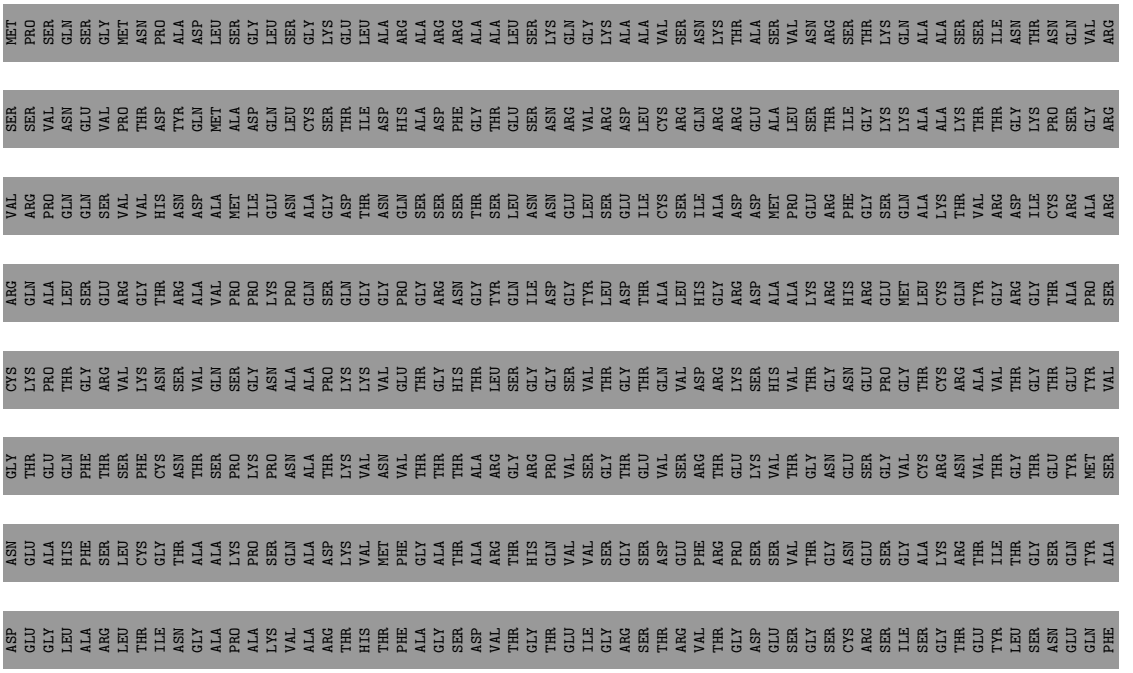
Chain YA: 11% 85%

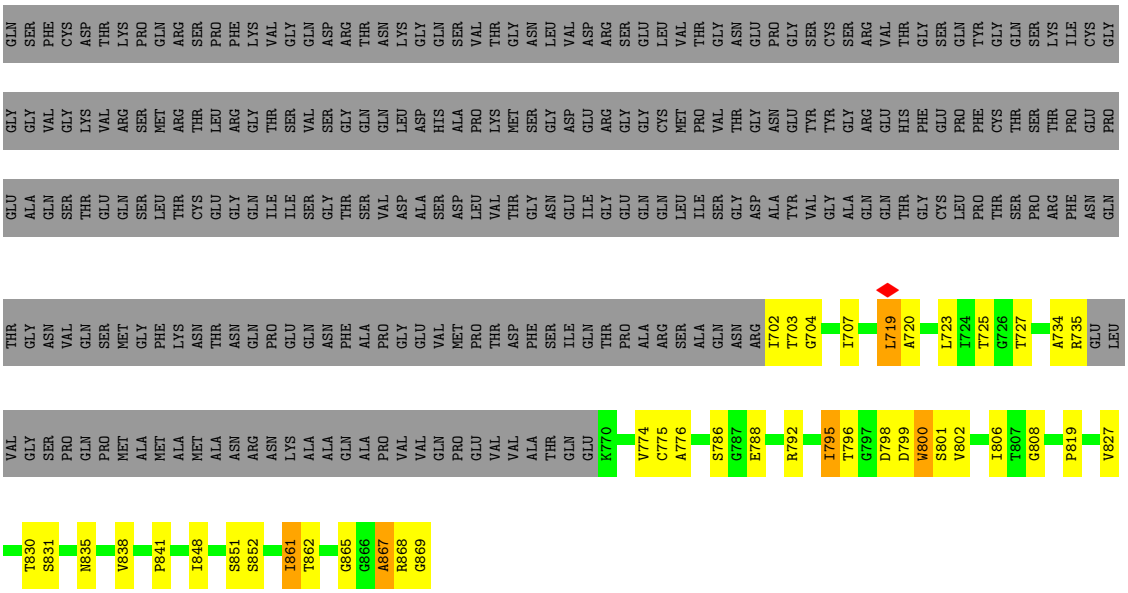




• Molecule 3: Carboxysome assembly protein CsoS2B

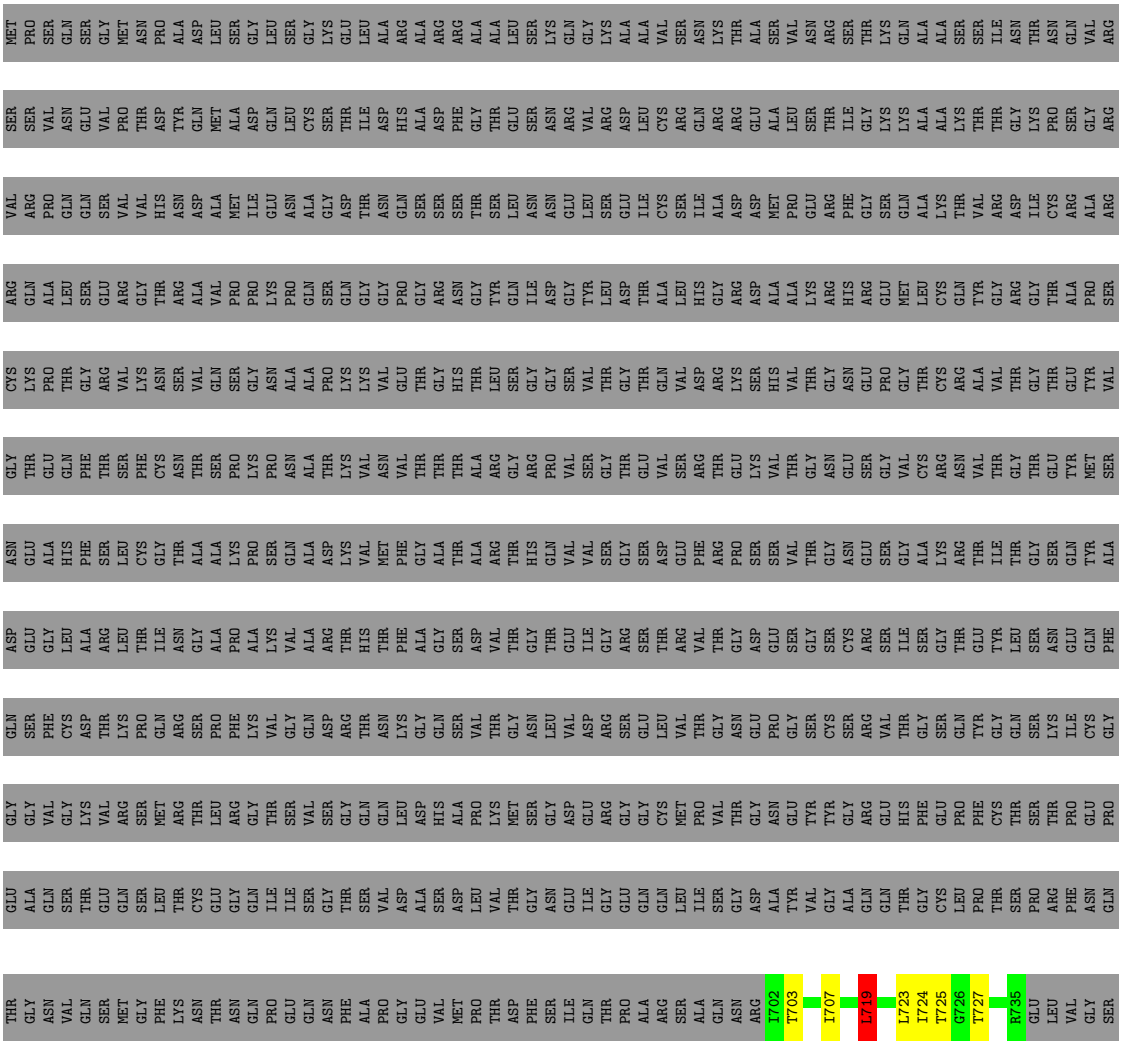
Chain YB: 11% 85%

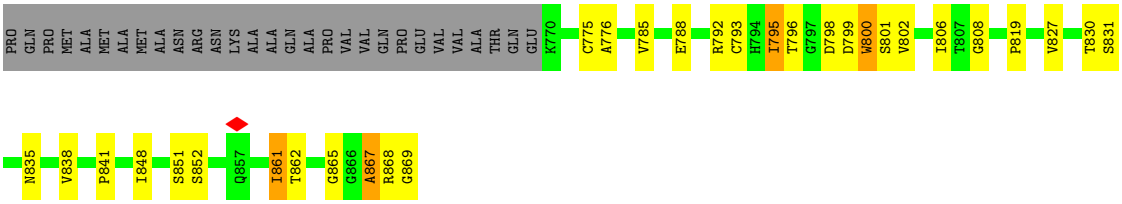




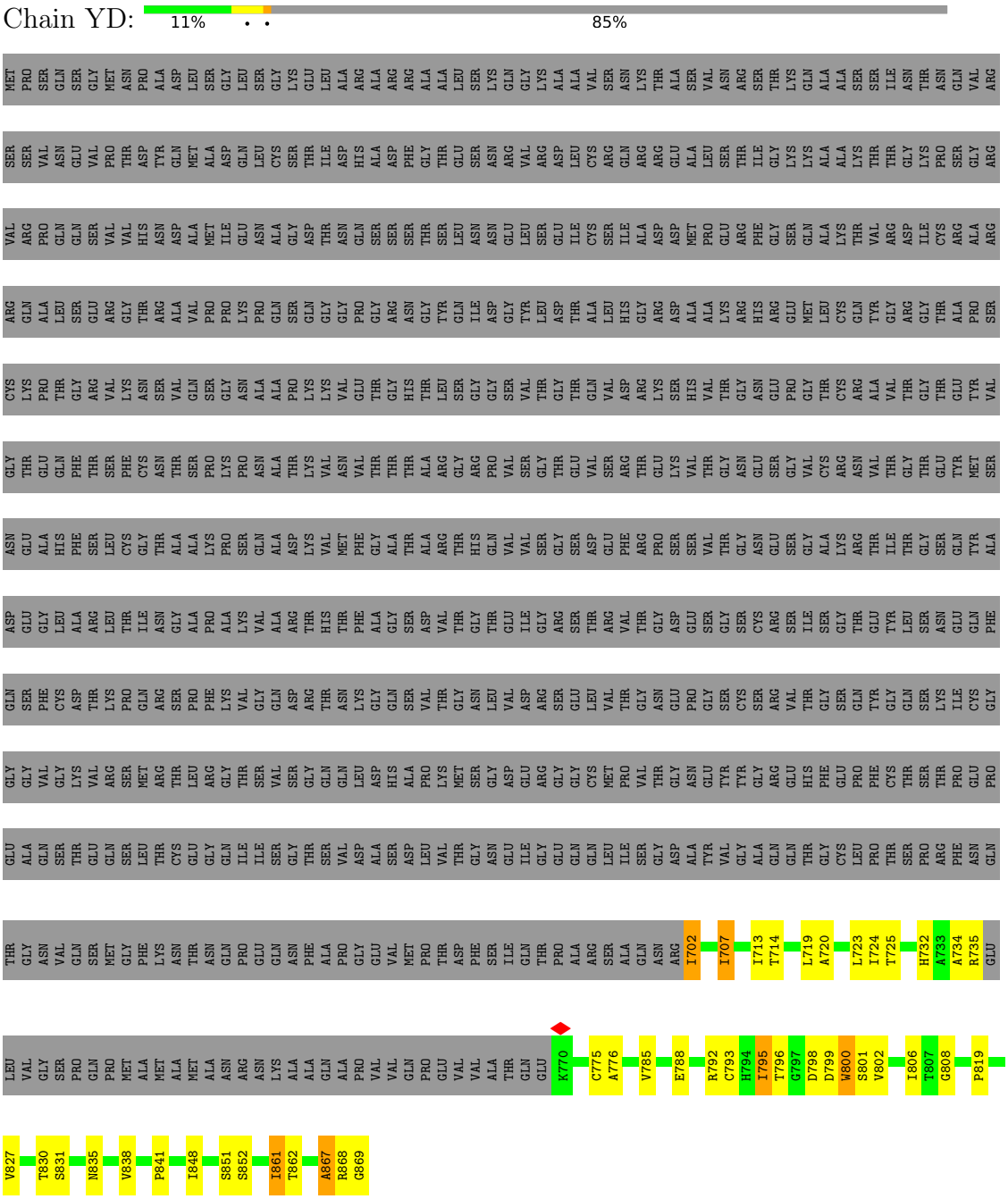
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YC:



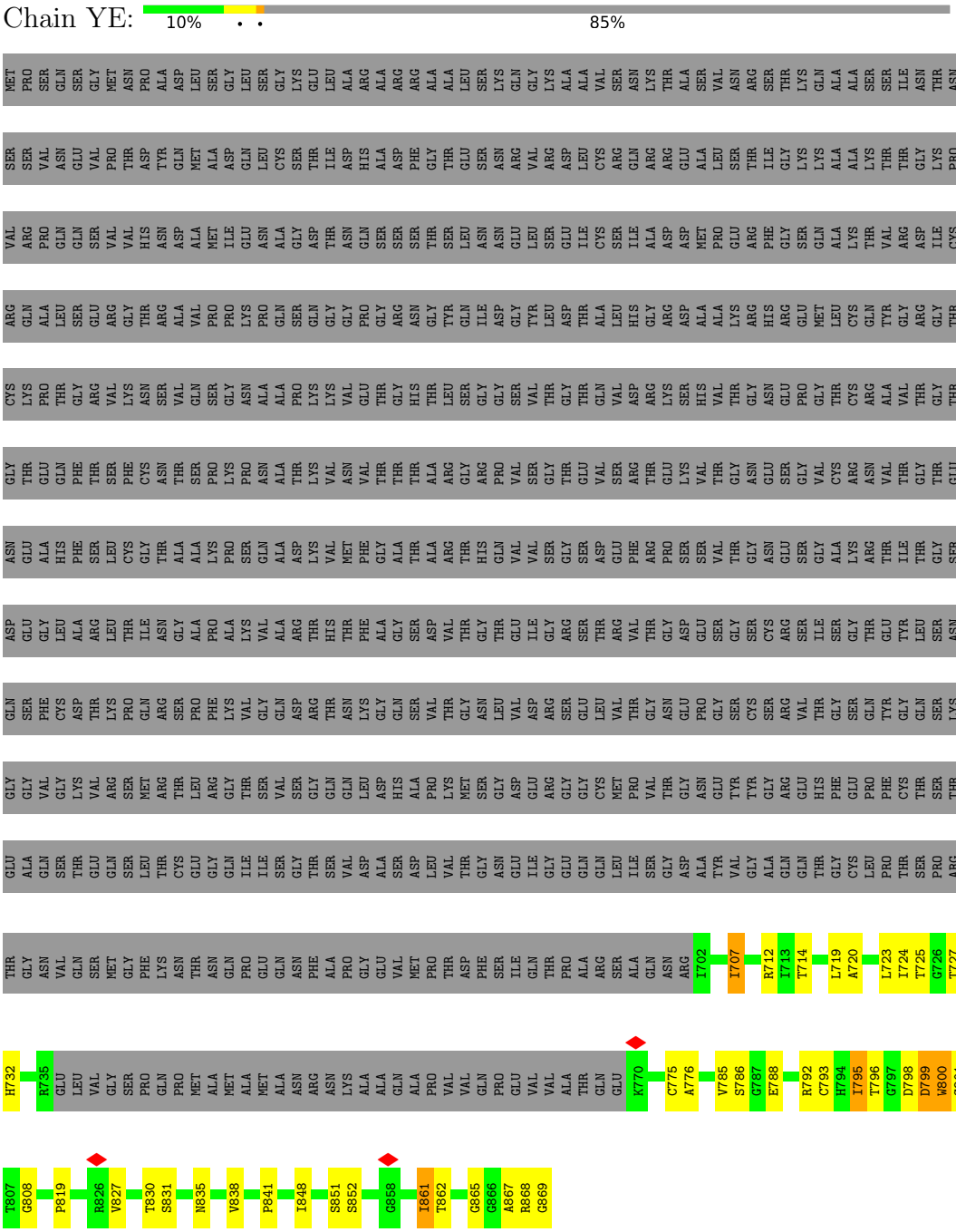


• Molecule 3: Carboxysome assembly protein CsoS2B



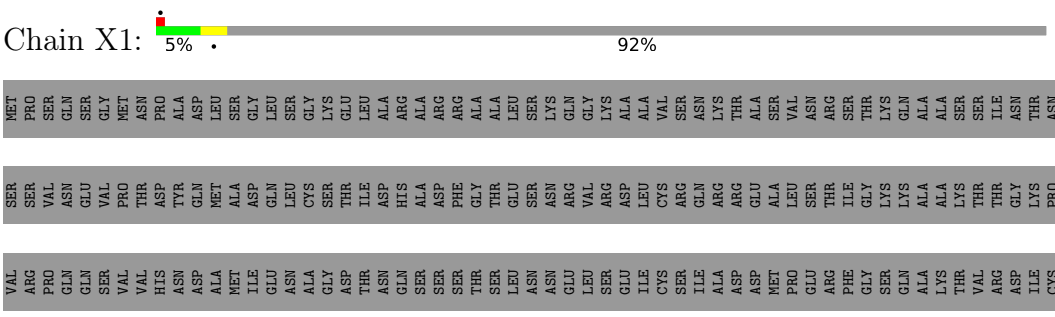
• Molecule 3: Carboxysome assembly protein CsoS2B

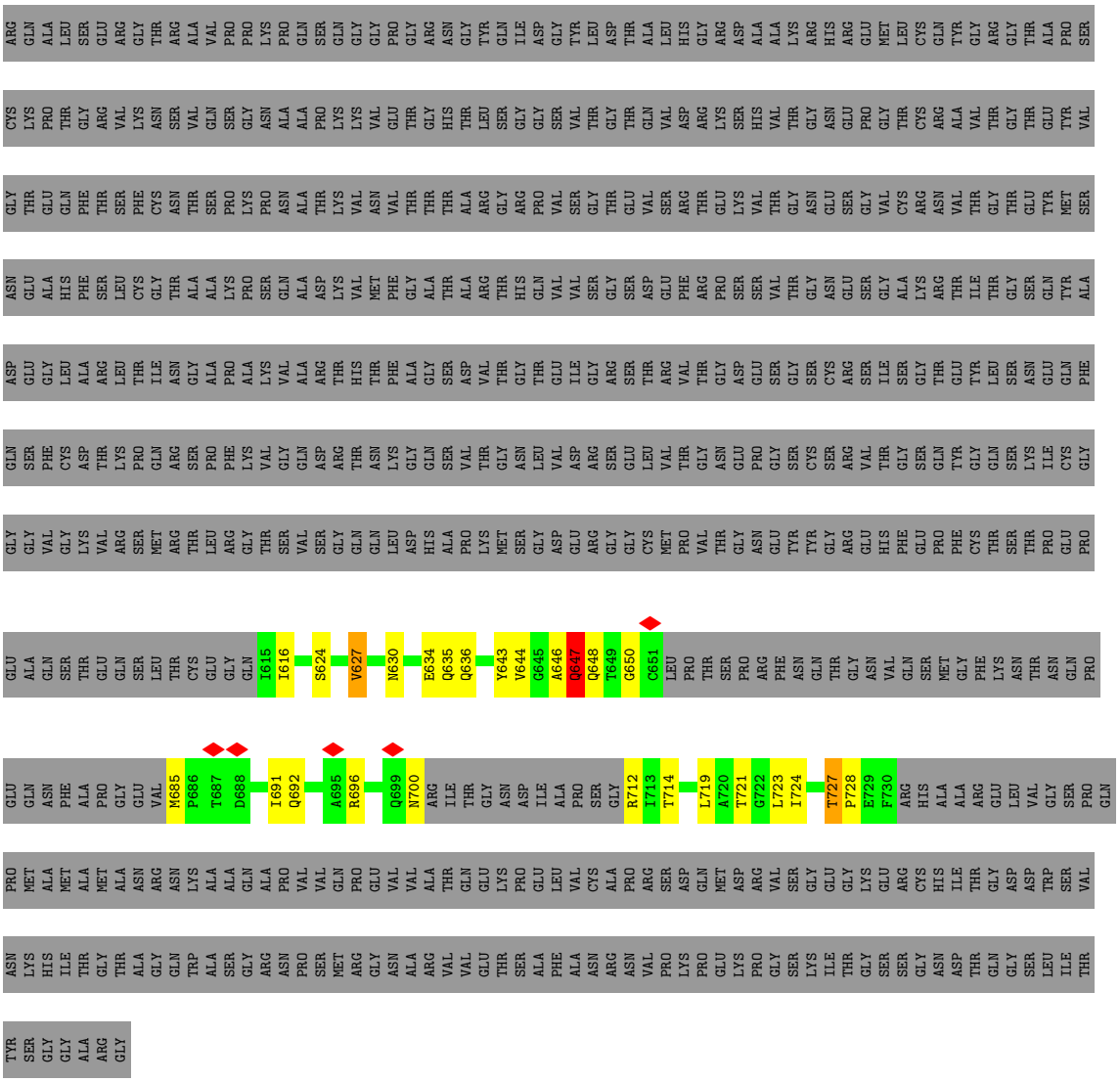
Chain YE:



• Molecule 3: Carboxysome assembly protein CsoS2B

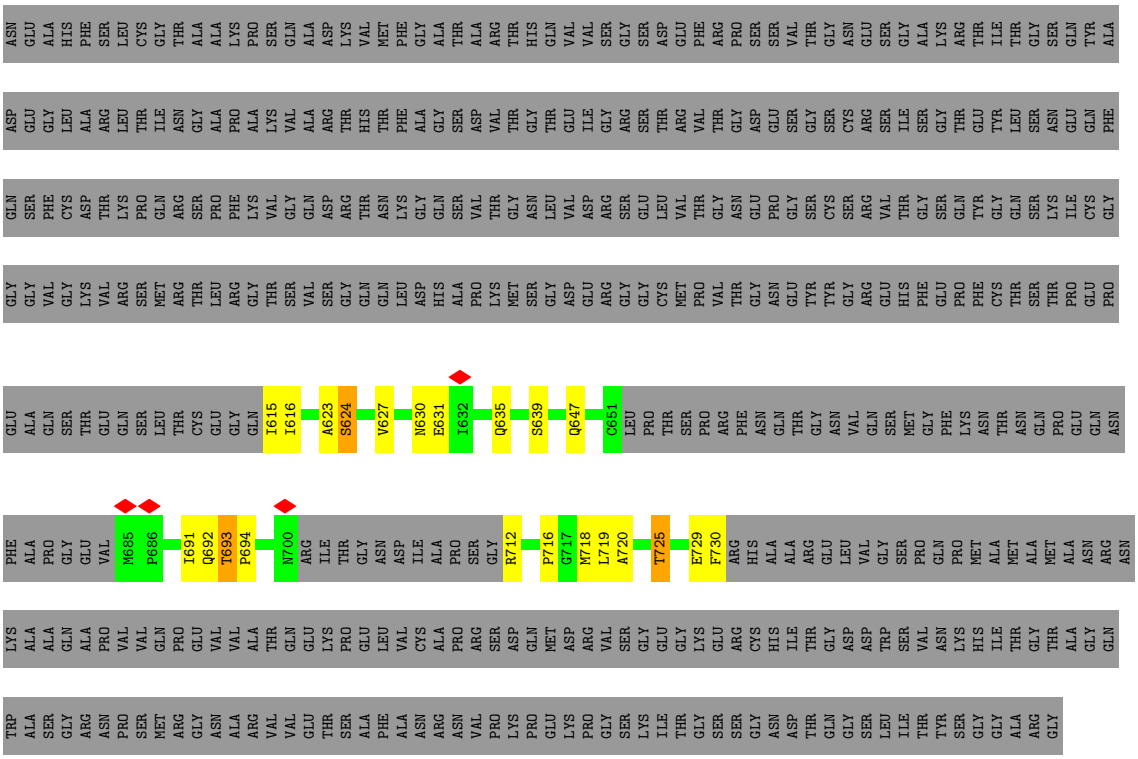
Chain X1:





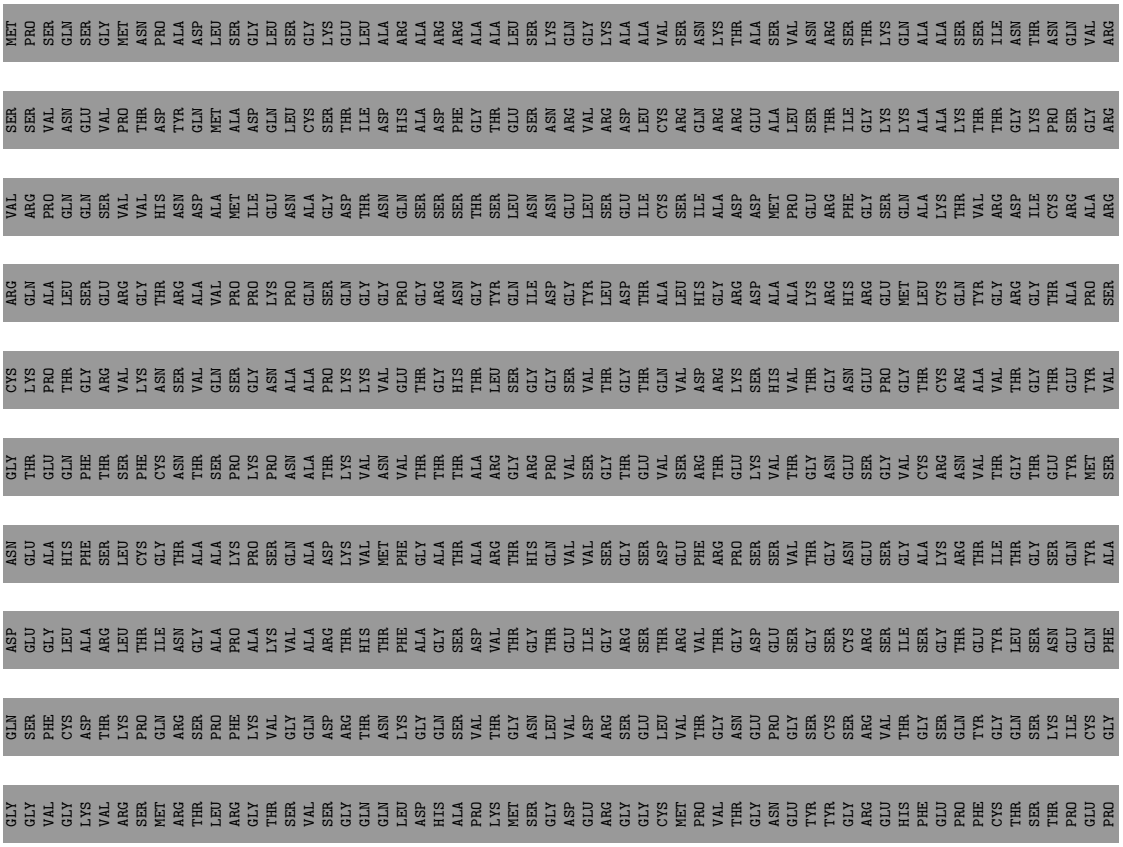
• Molecule 3: Carboxysome assembly protein CsoS2B

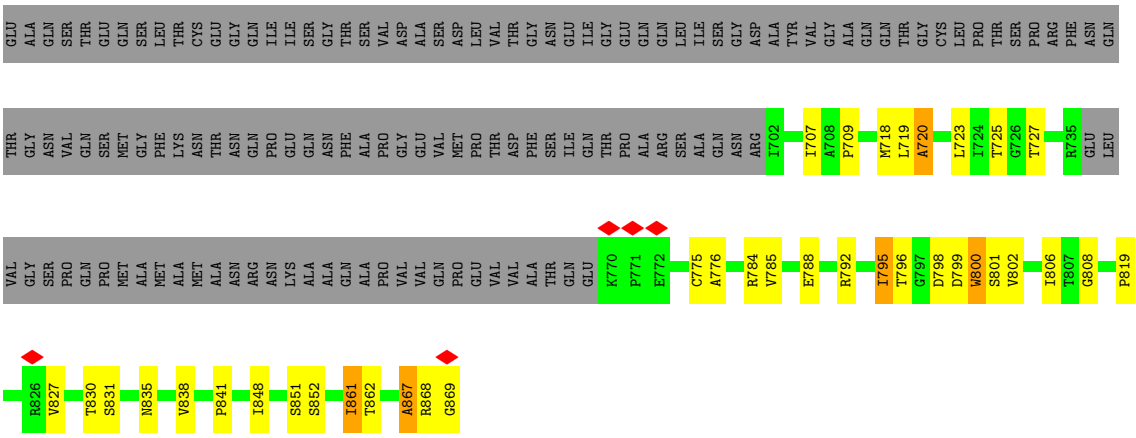
Chain X2:



• Molecule 3: Carboxysome assembly protein CsoS2B

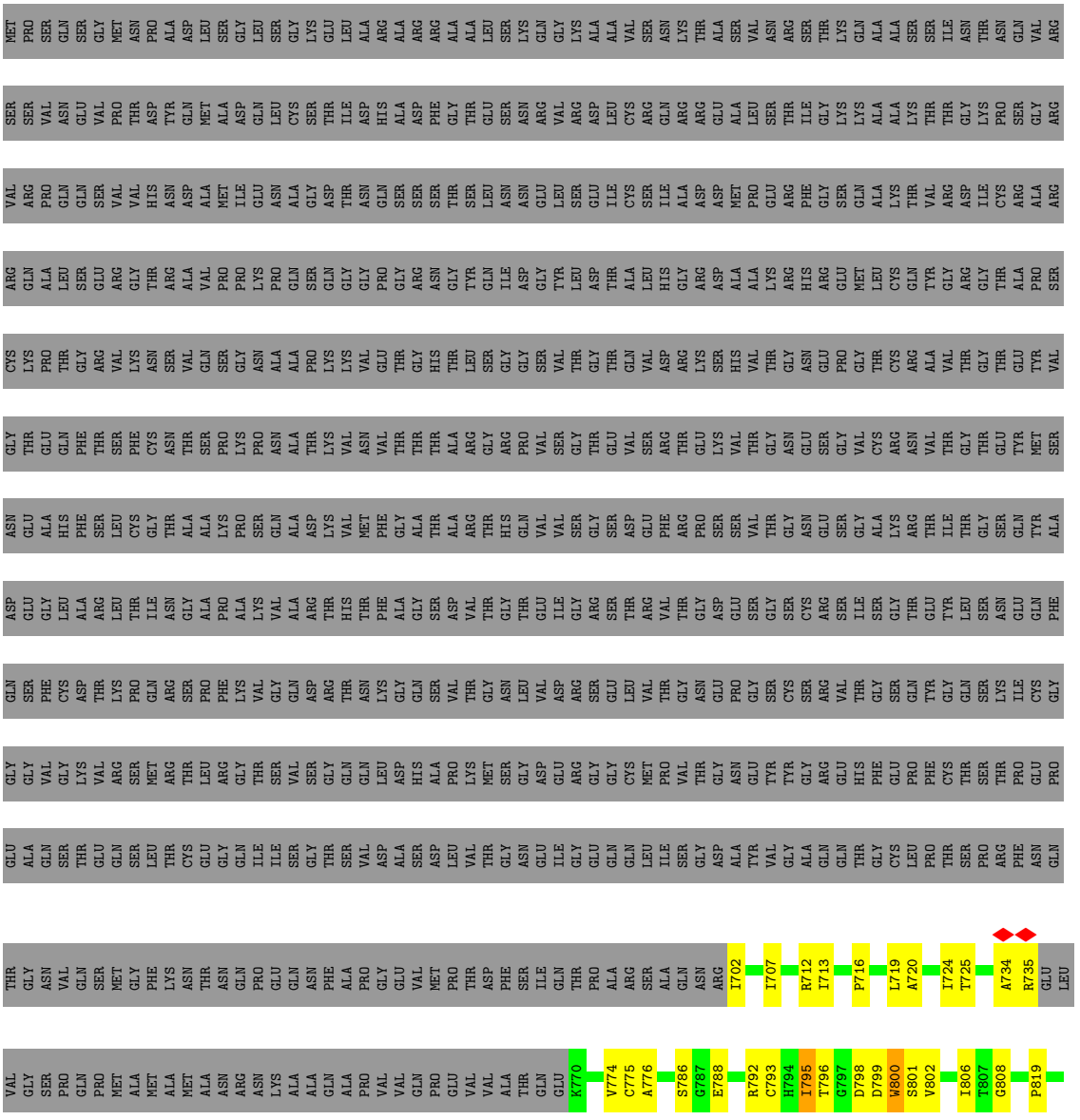
Chain Y1:

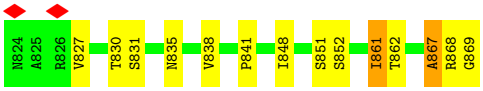




• Molecule 3: Carboxysome assembly protein CsoS2B

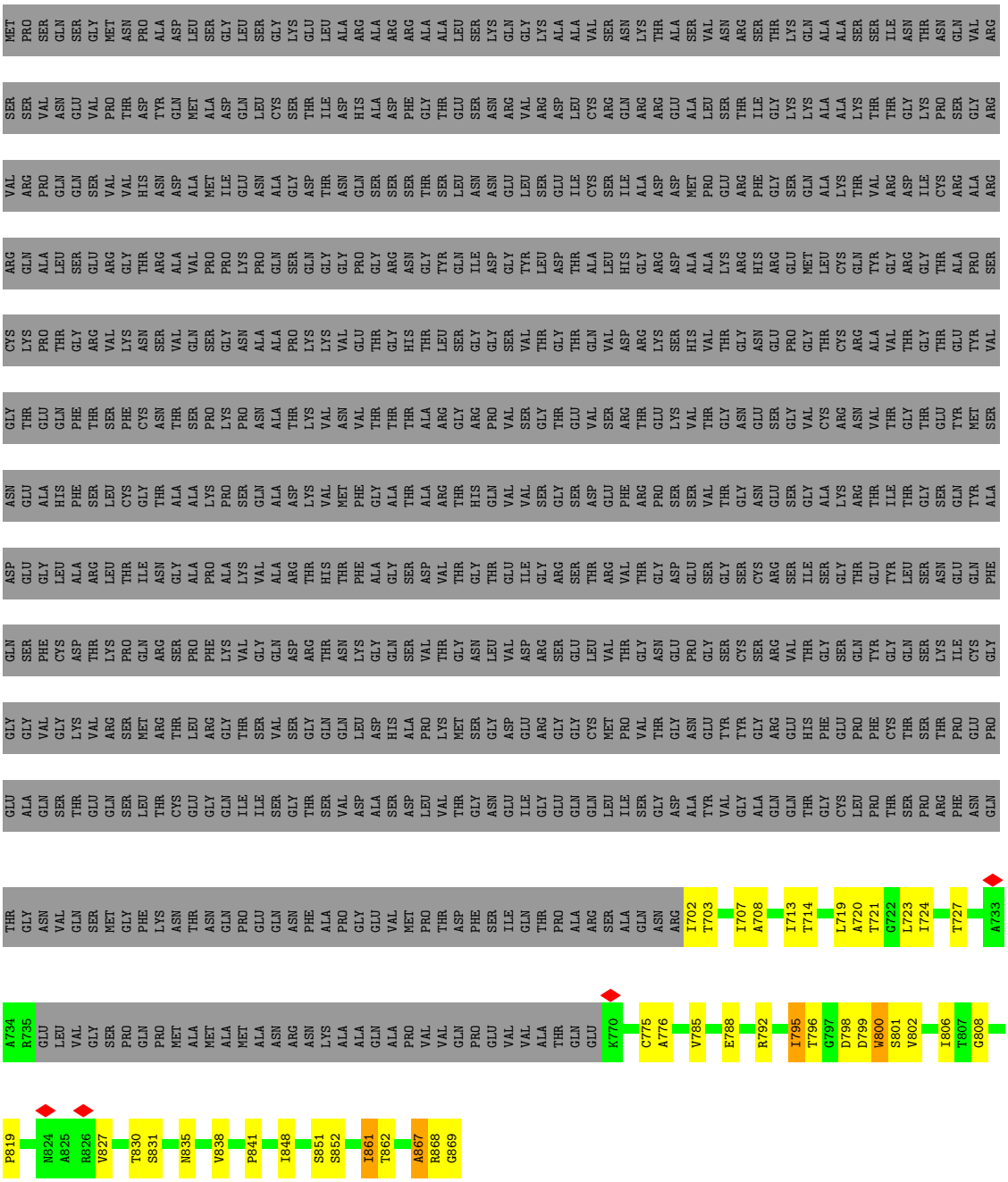
Chain Y2:





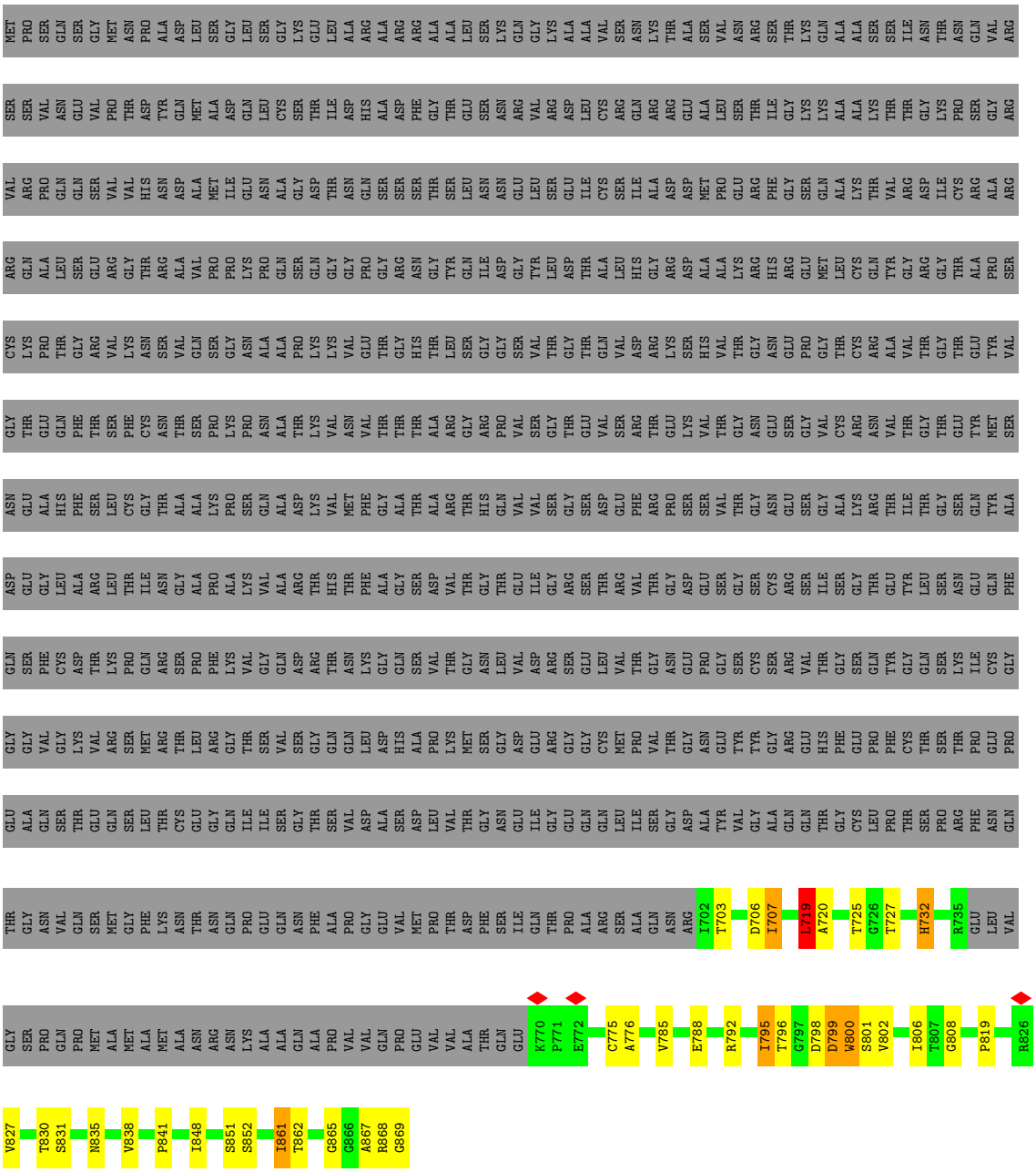
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Y4:



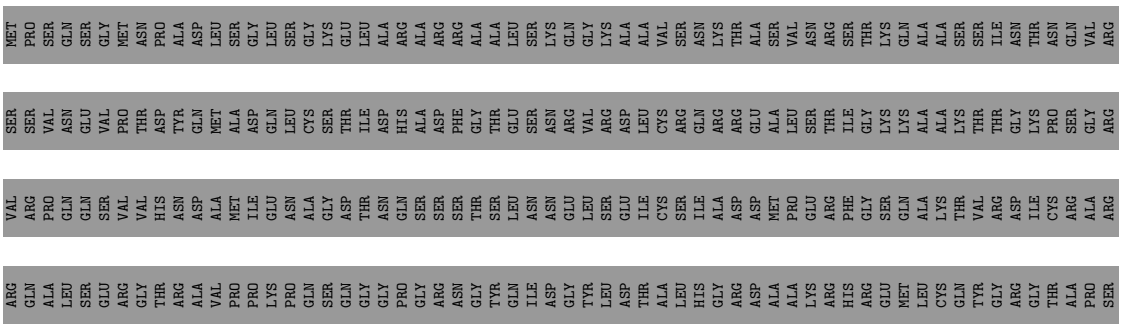
• Molecule 3: Carboxysome assembly protein CsoS2B

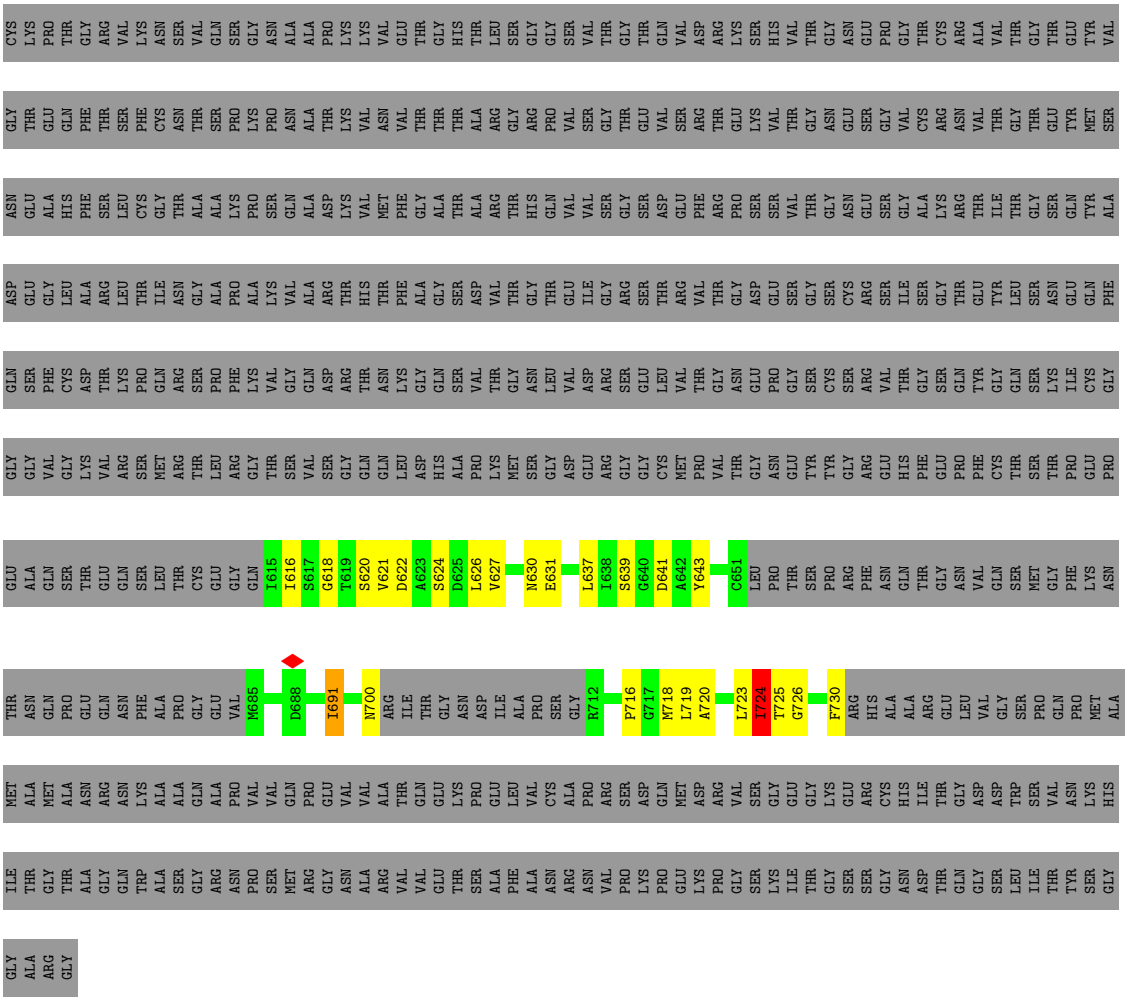
Chain Y5:



• Molecule 3: Carboxysome assembly protein CsoS2B

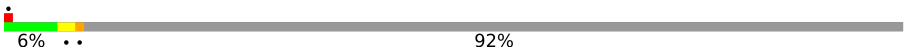
Chain X6: 5% 92%

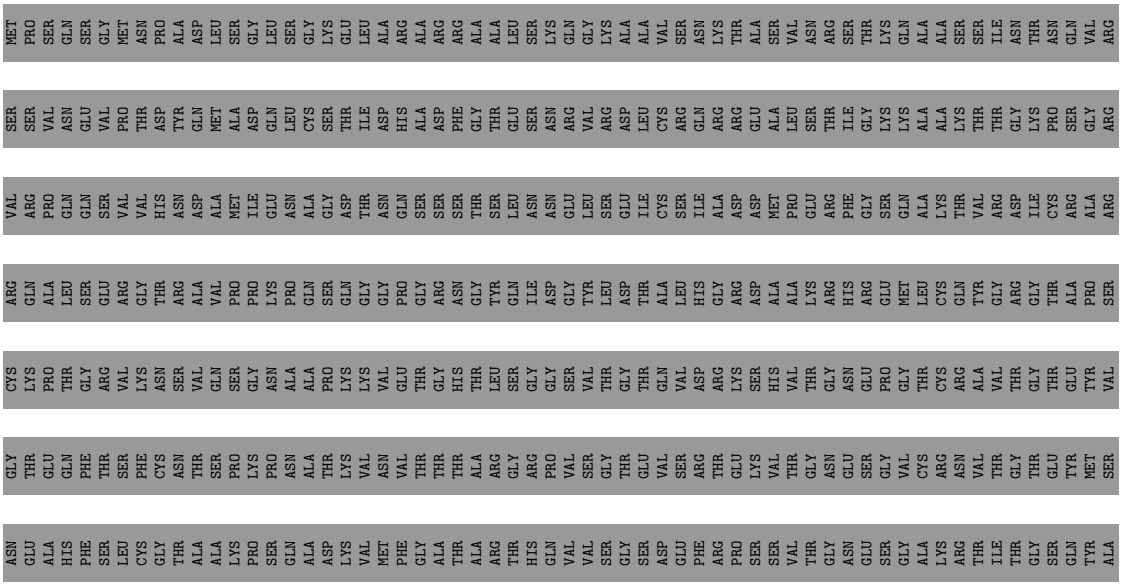


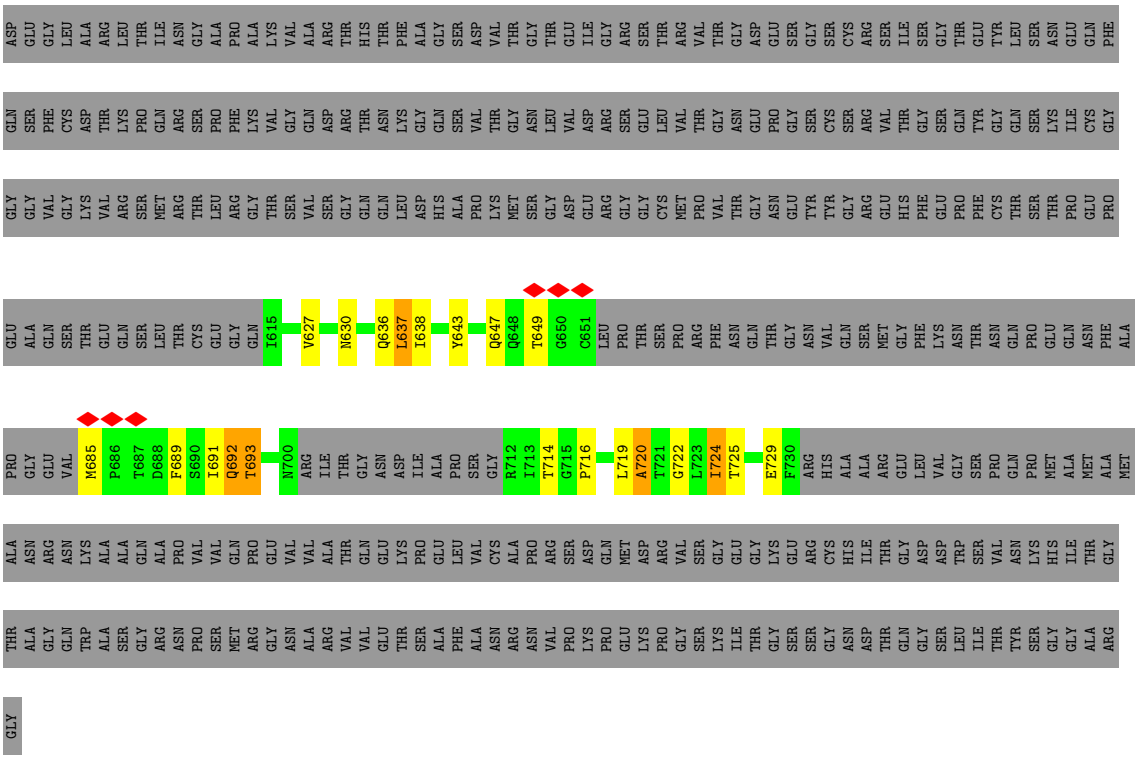


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain X9:

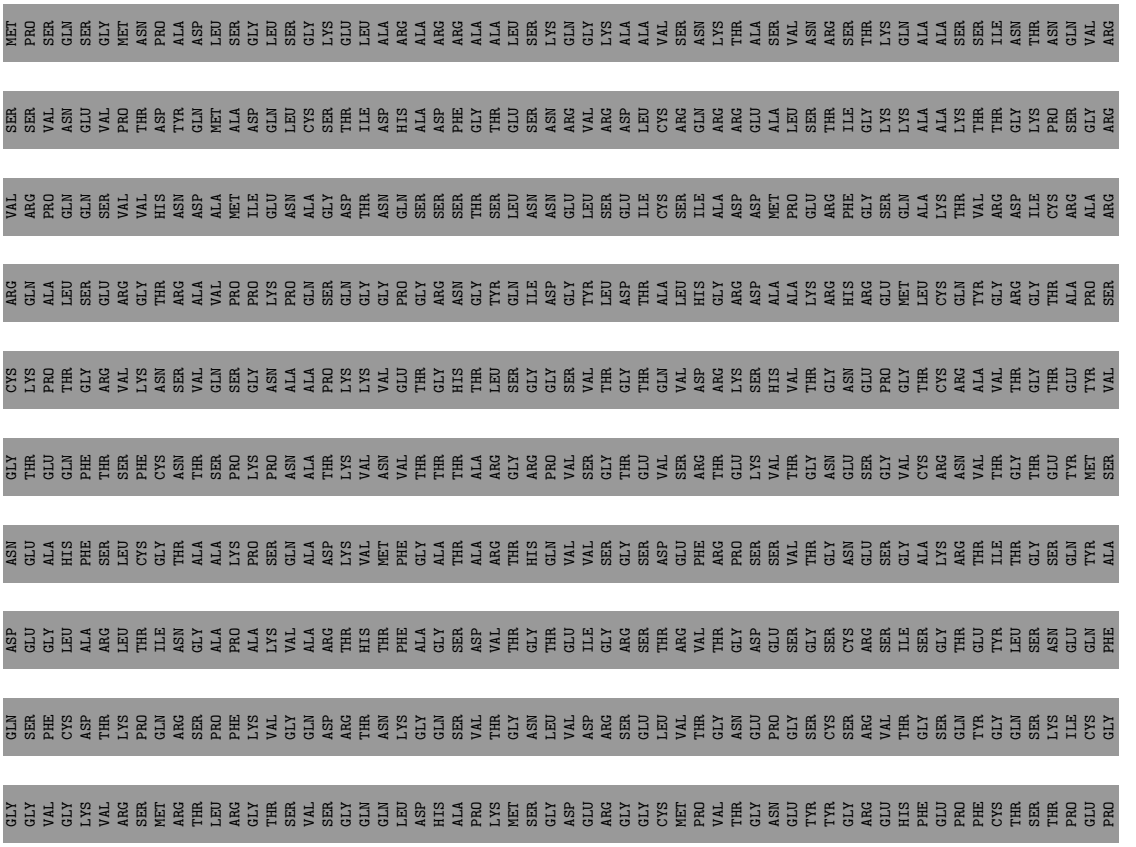


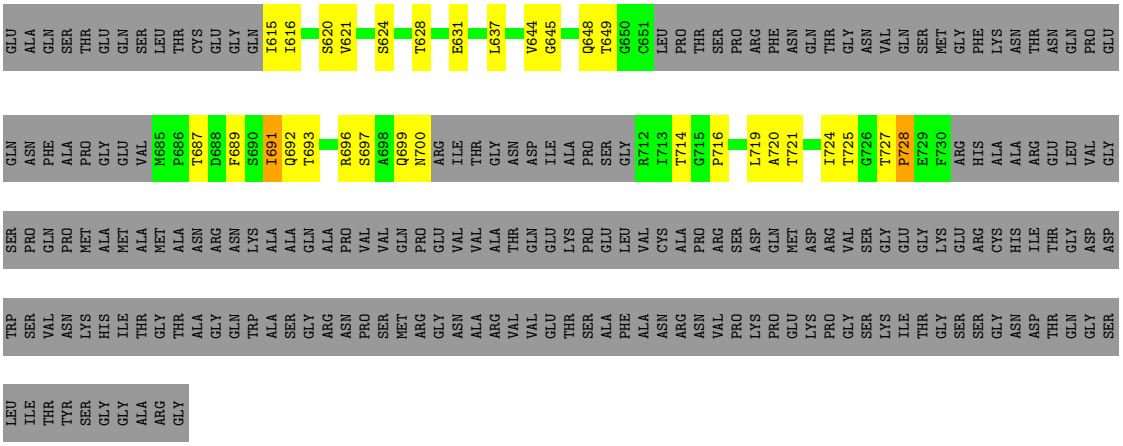




• Molecule 3: Carboxysome assembly protein CsoS2B

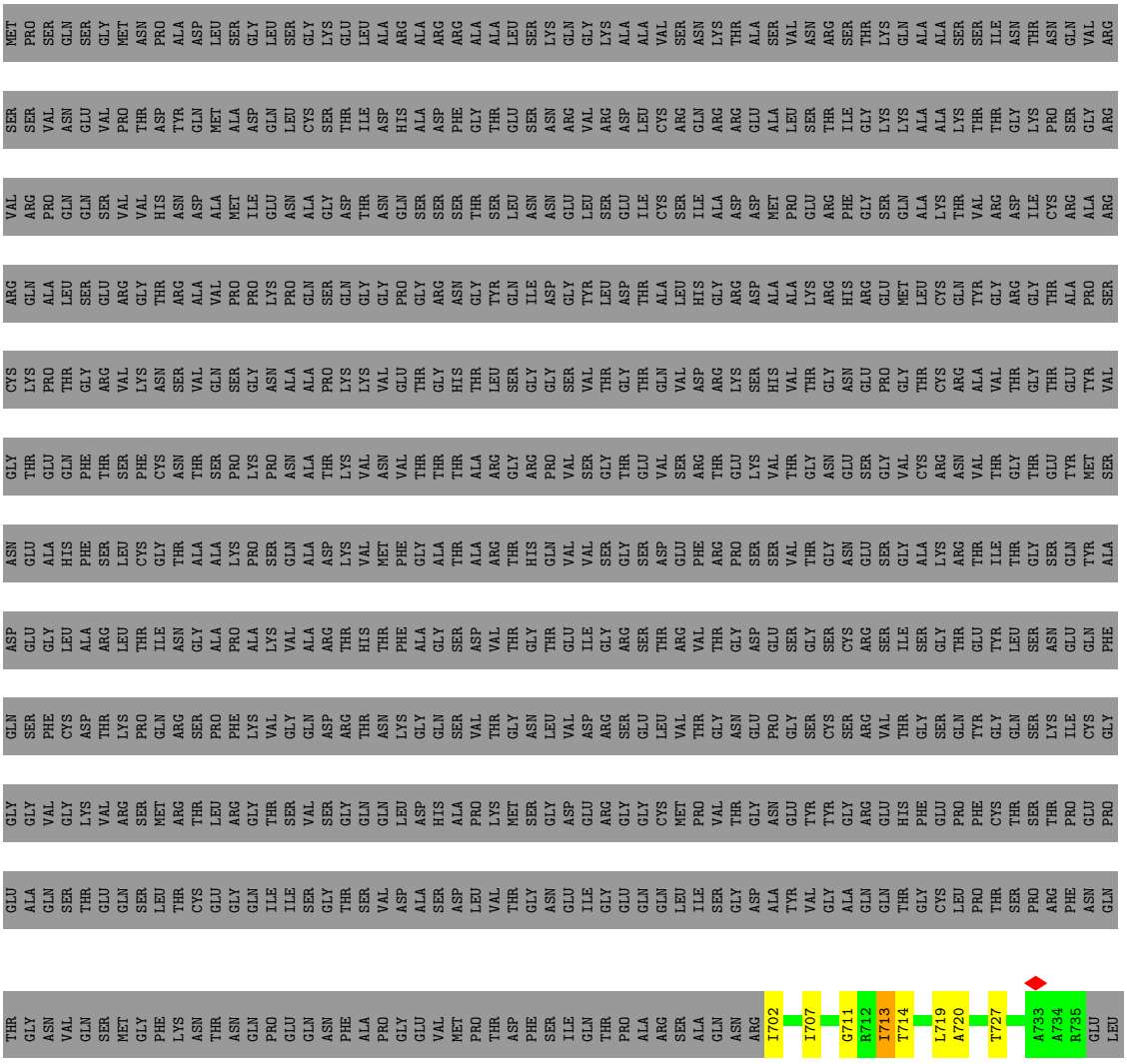
Chain X0: 5% 92%

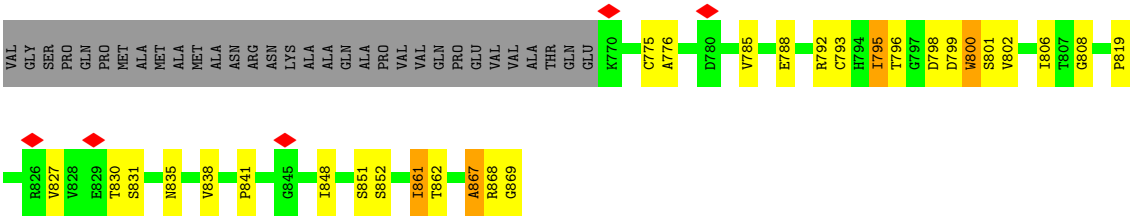




• Molecule 3: Carboxysome assembly protein CsoS2B

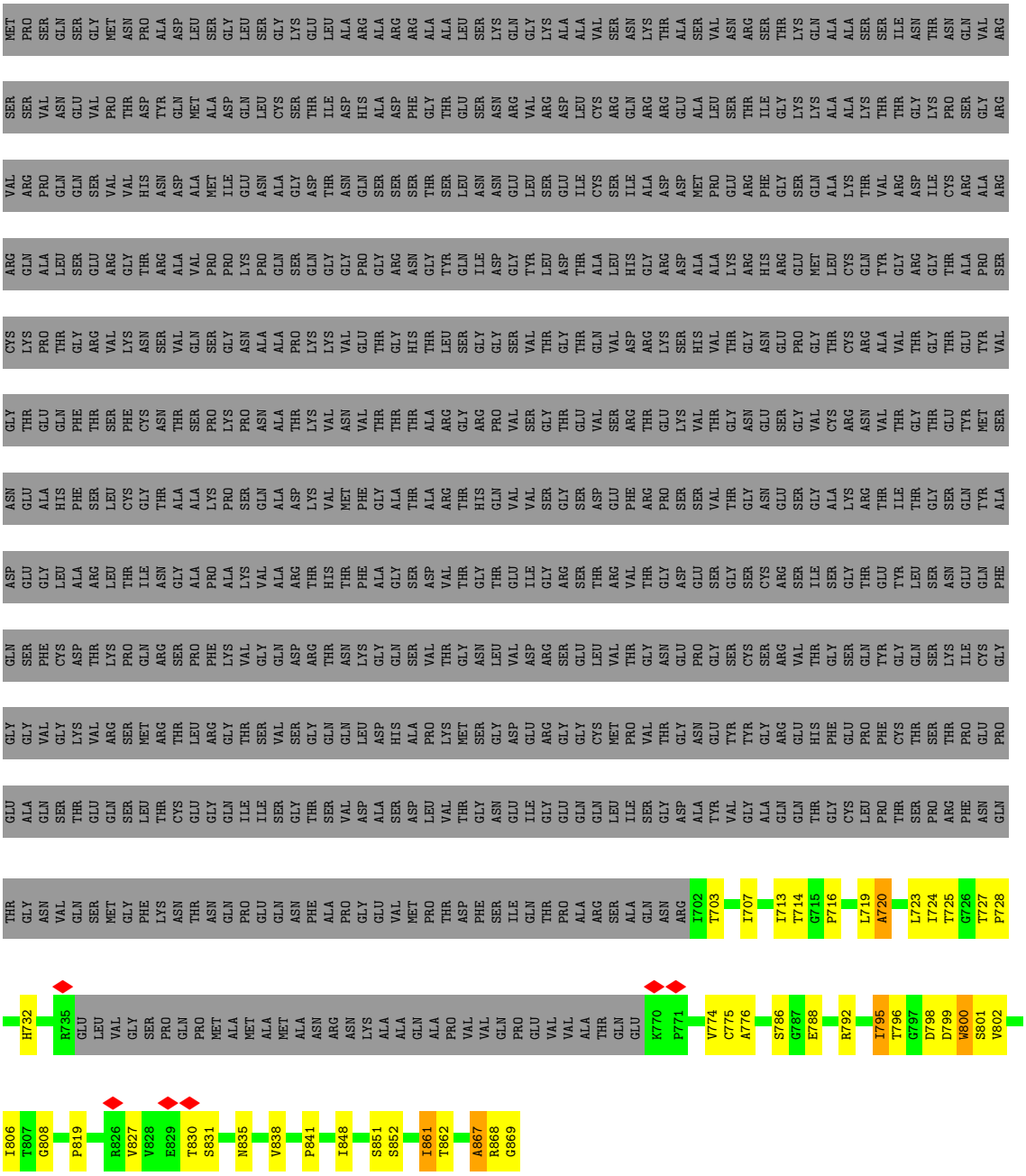
Chain Y6:





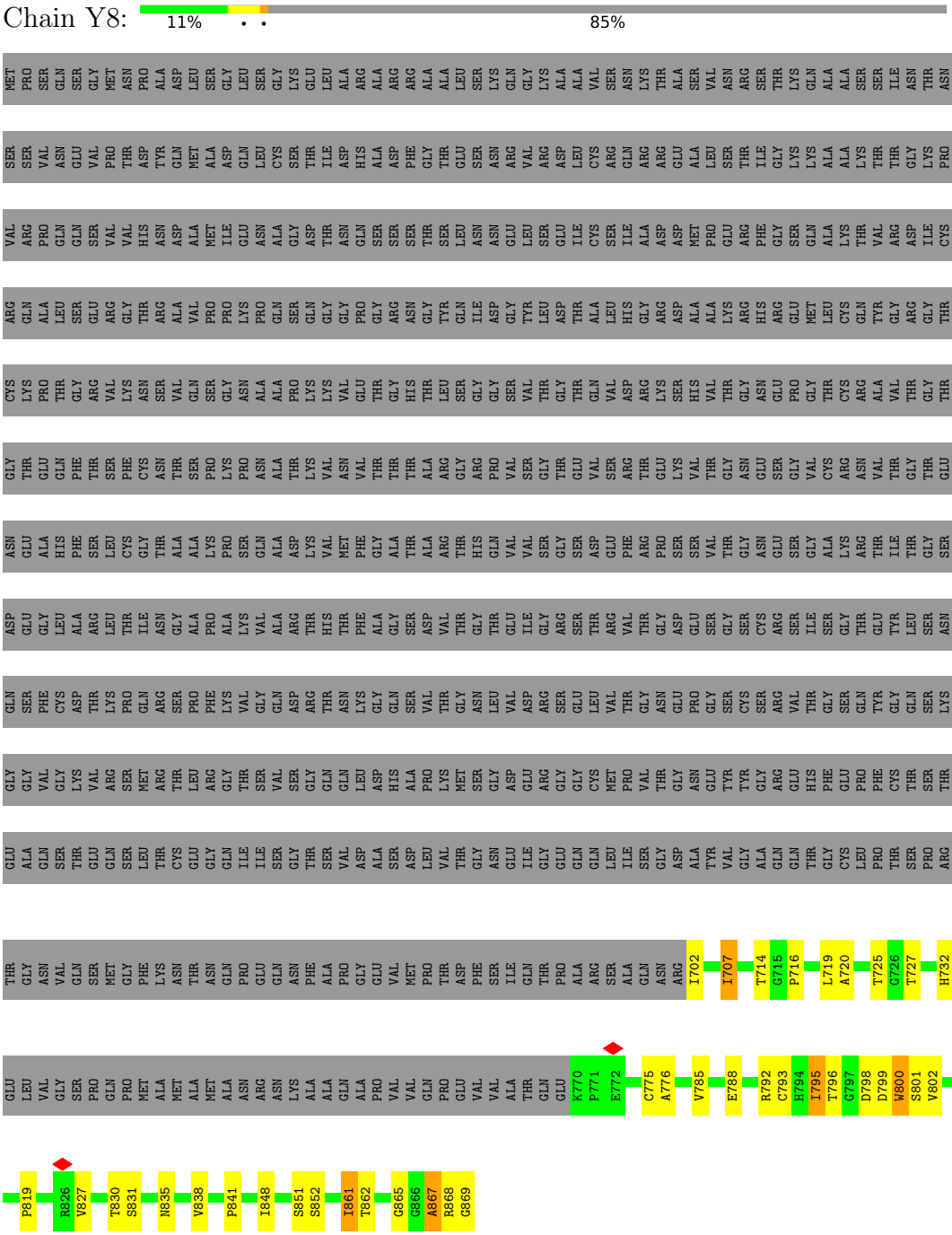
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Y7:



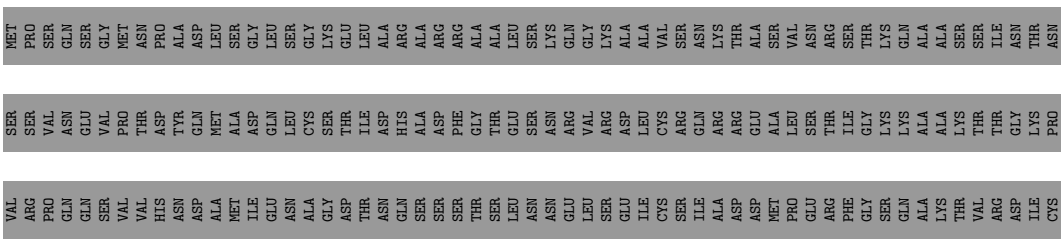
• Molecule 3: Carboxysome assembly protein CsoS2B

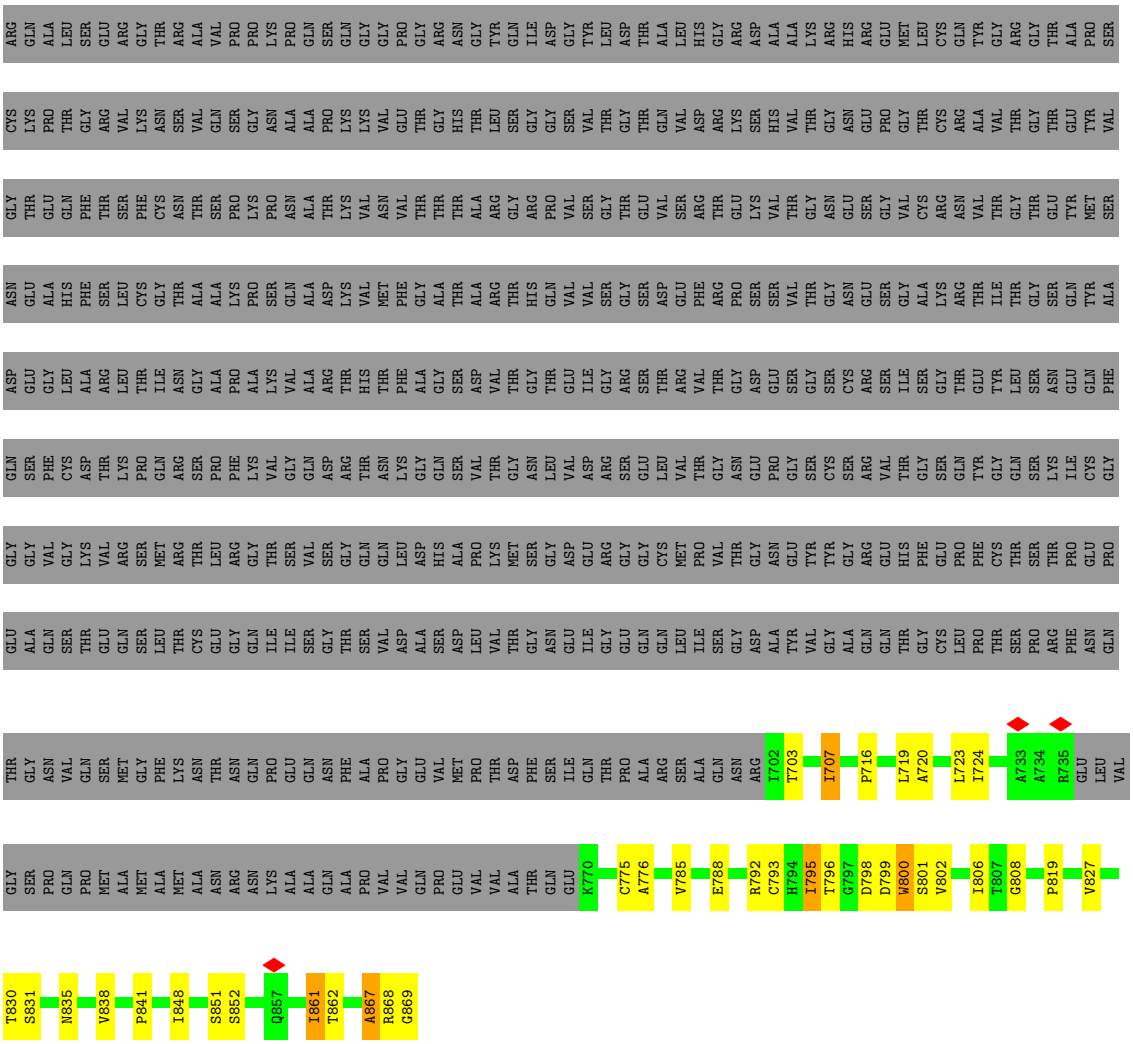
Chain Y8:



• Molecule 3: Carboxysome assembly protein CsoS2B

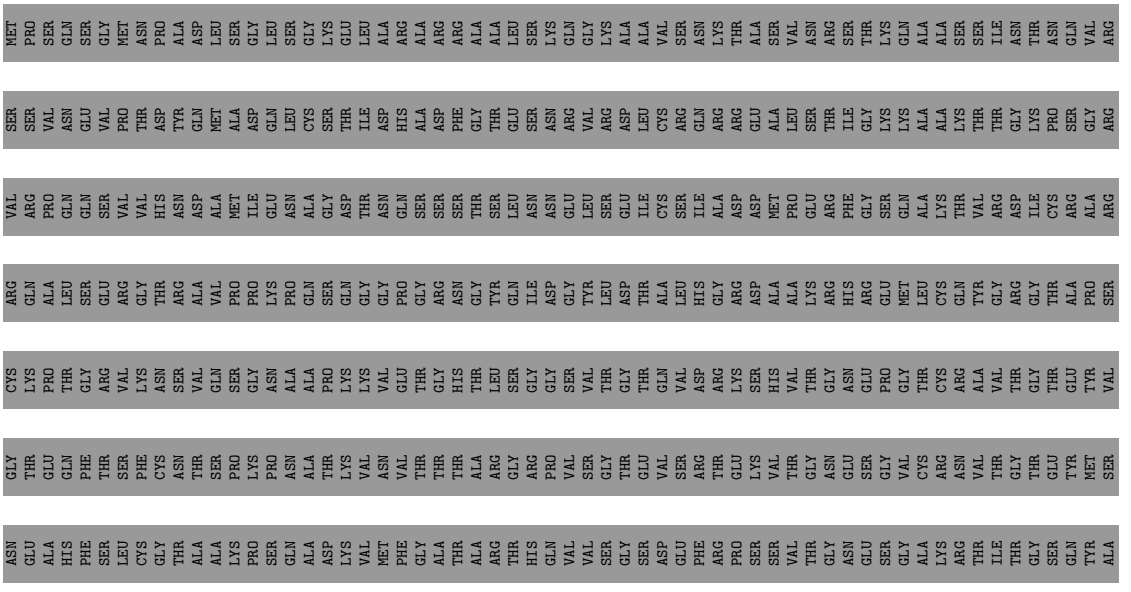
Chain Y9:

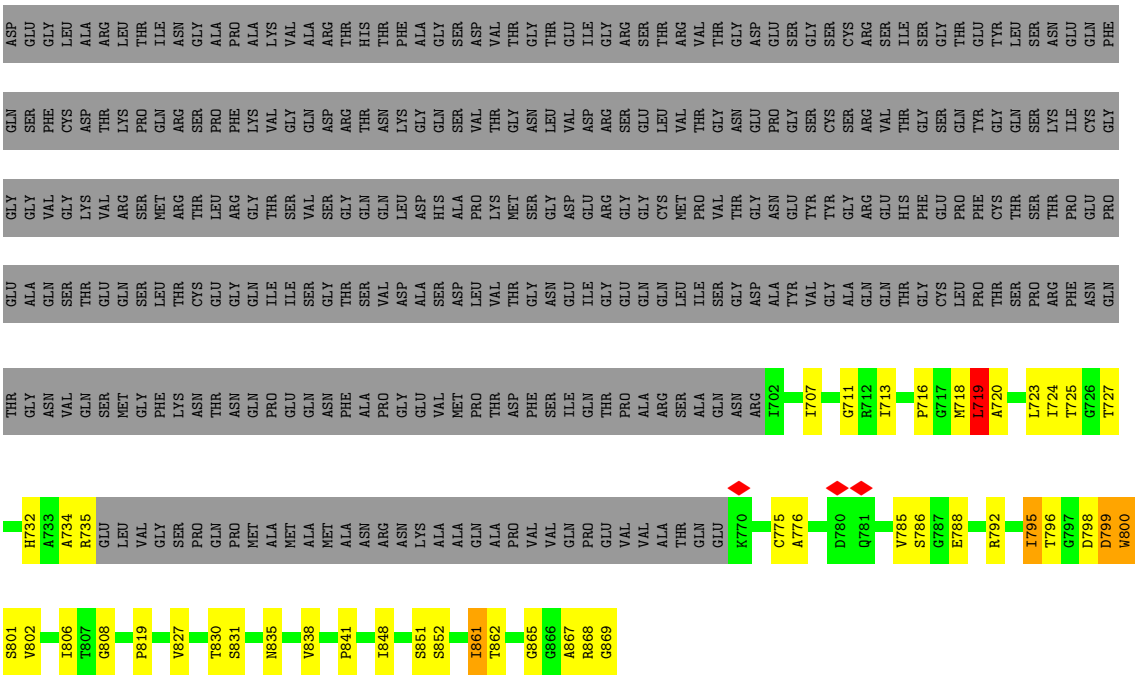




• Molecule 3: Carboxysome assembly protein CsoS2B

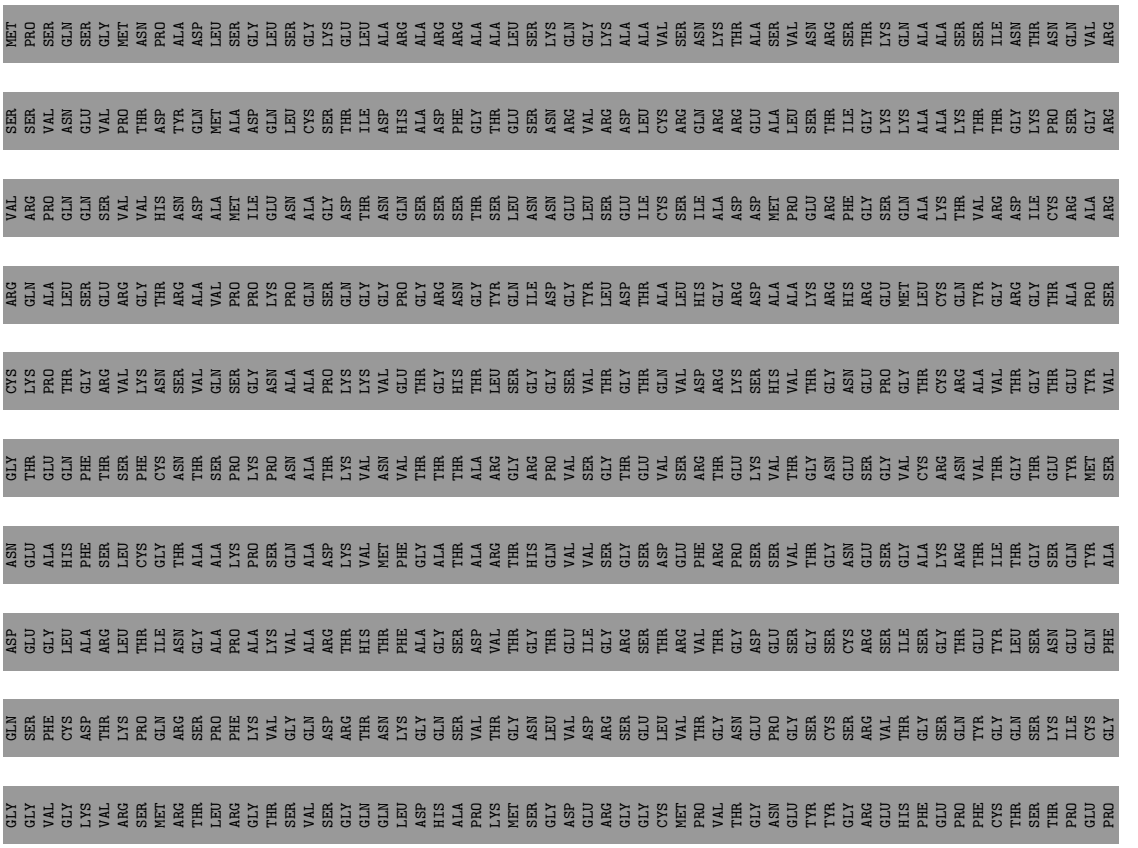
Chain Y0: 10% 5% 85%

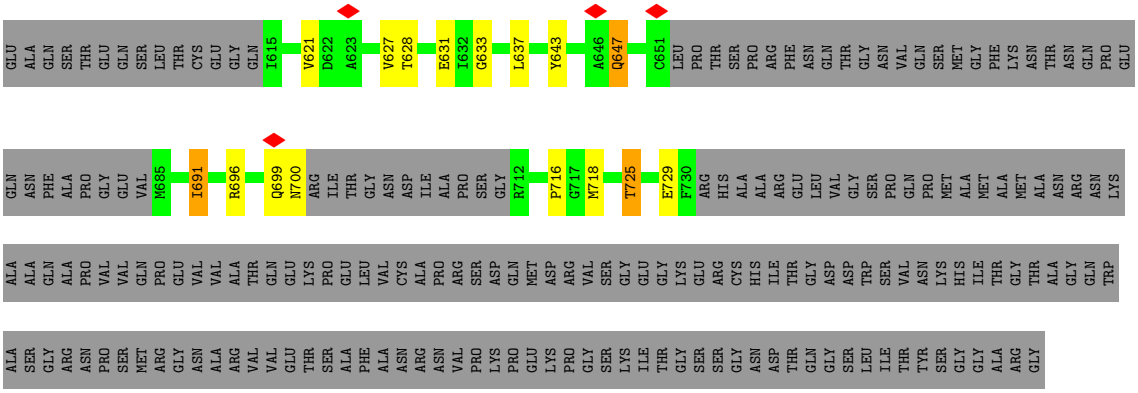




• Molecule 3: Carboxysome assembly protein CsoS2B

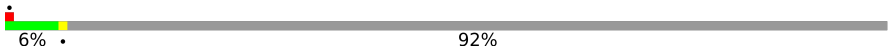
Chain XP: 6% 92%

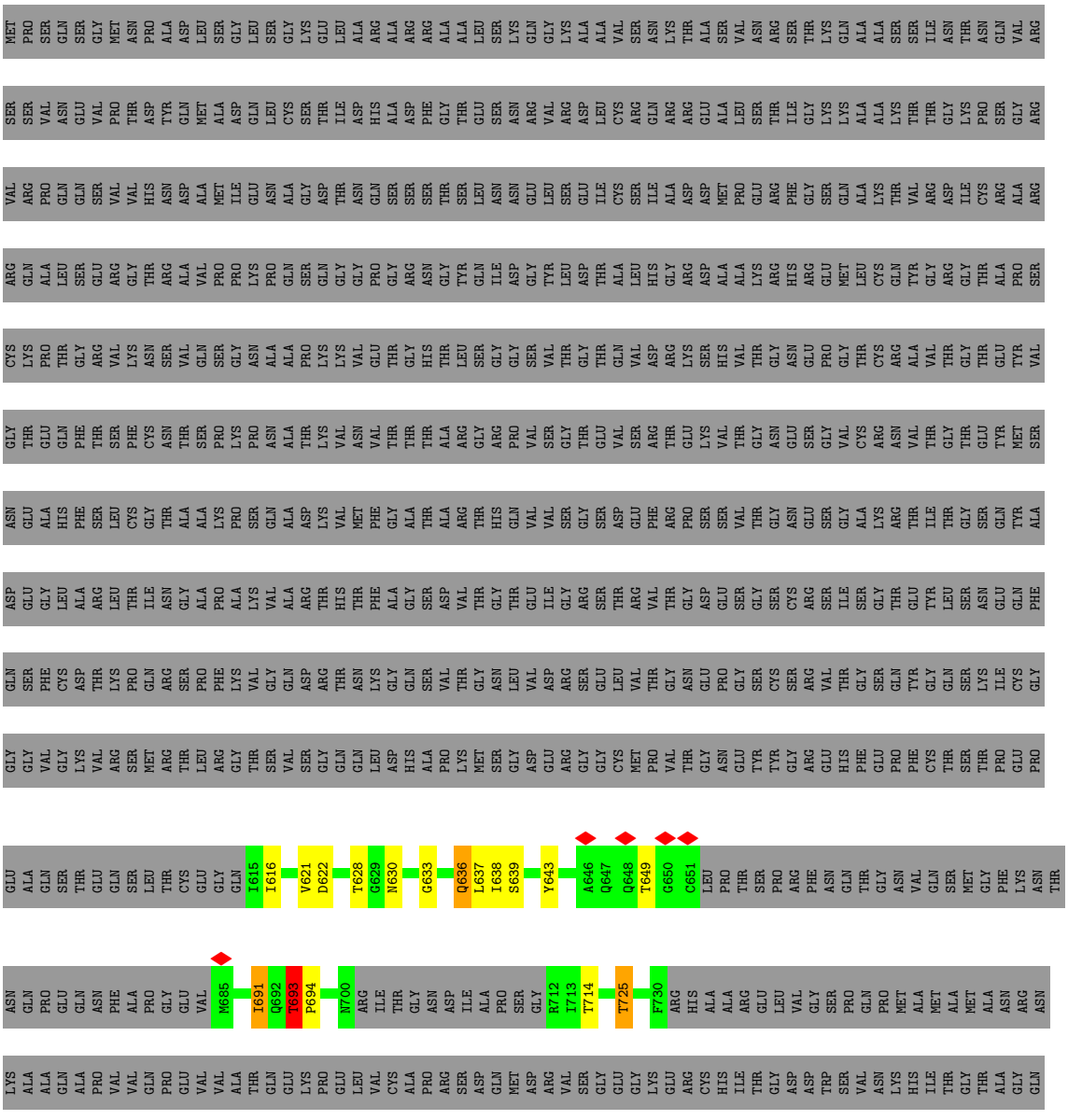




• Molecule 3: Carboxysome assembly protein CsoS2B

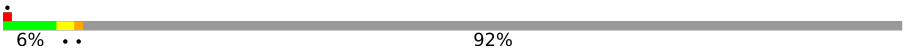
Chain XQ:

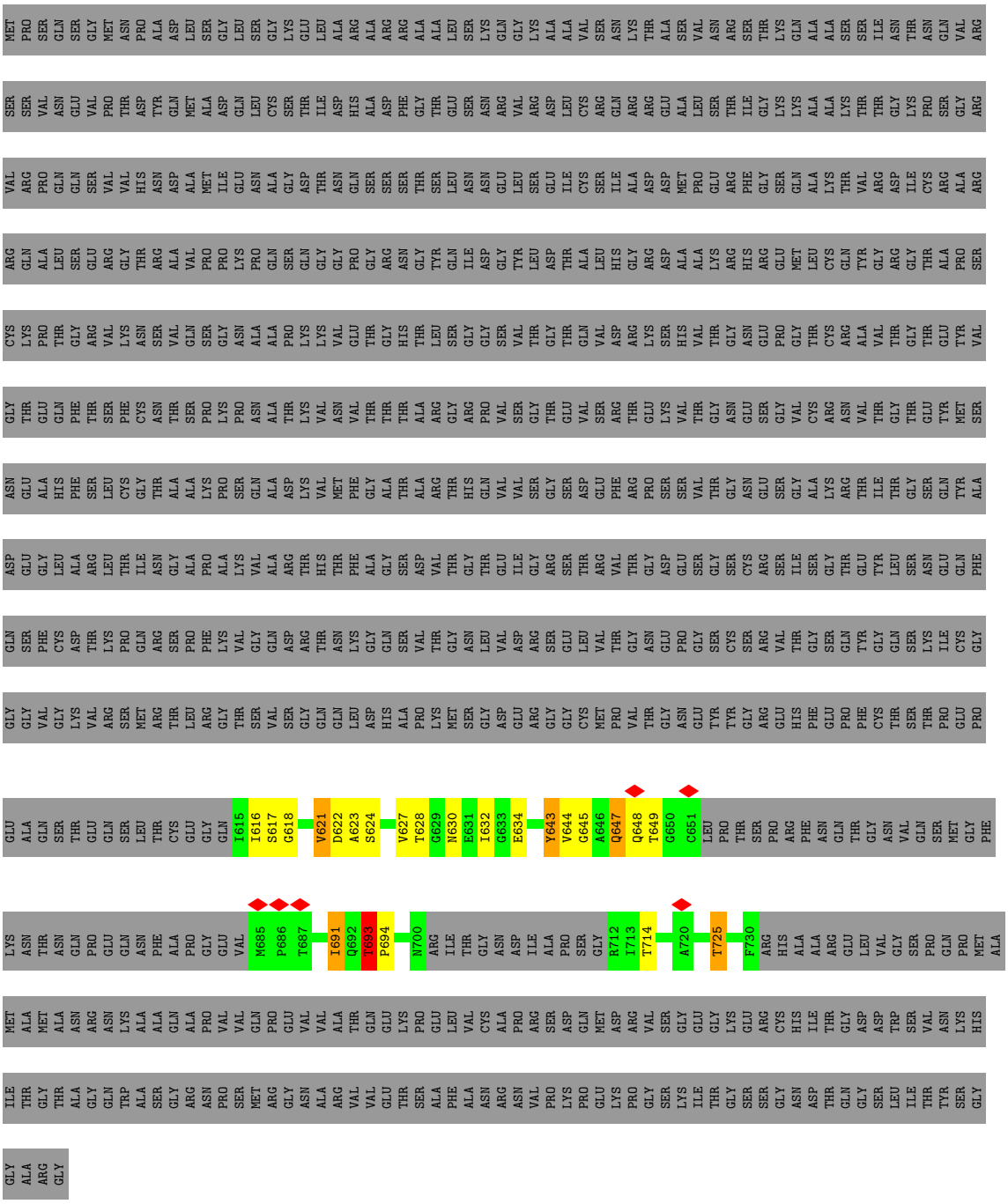




• Molecule 3: Carboxysome assembly protein CsoS2B

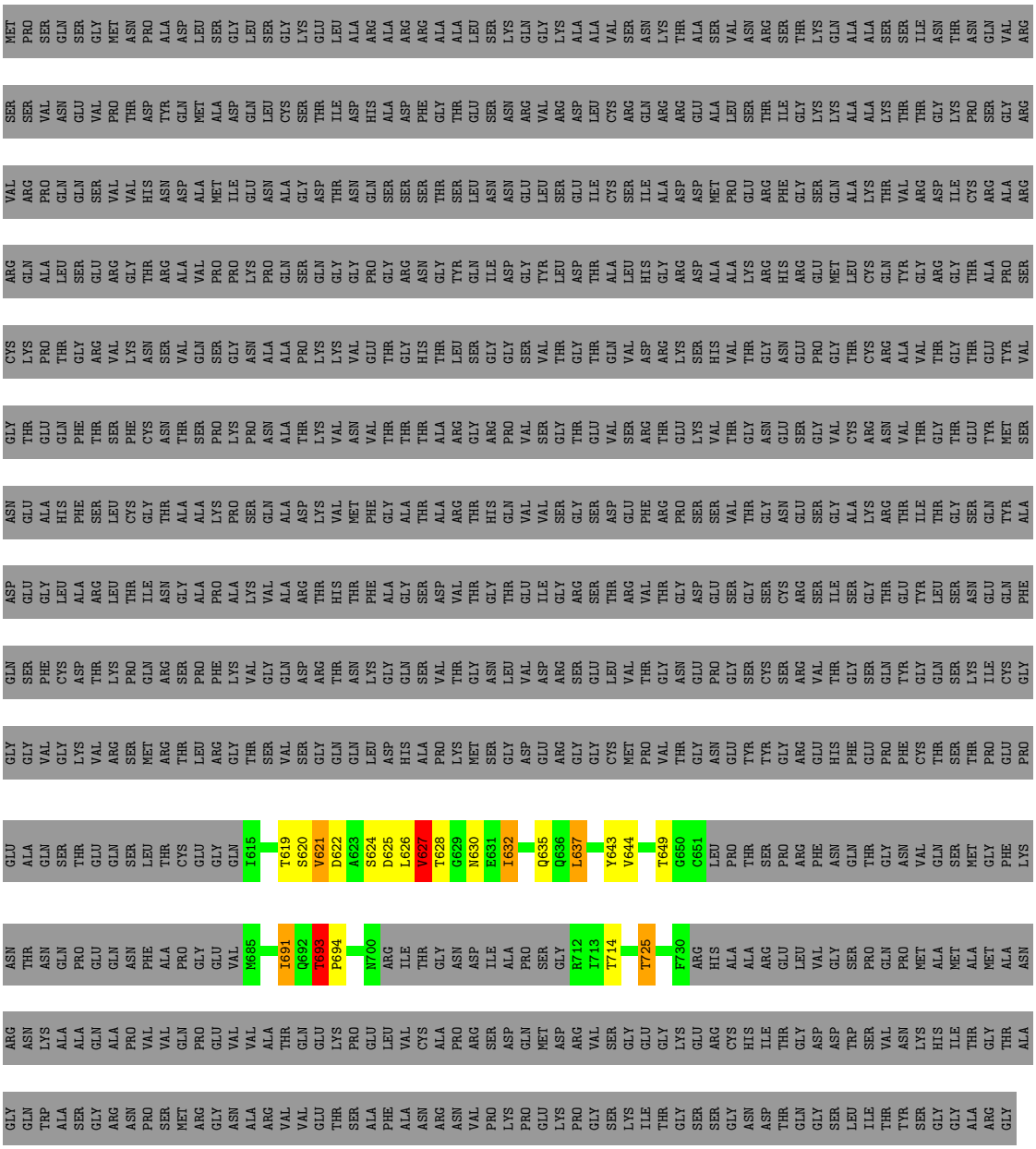
Chain XR:





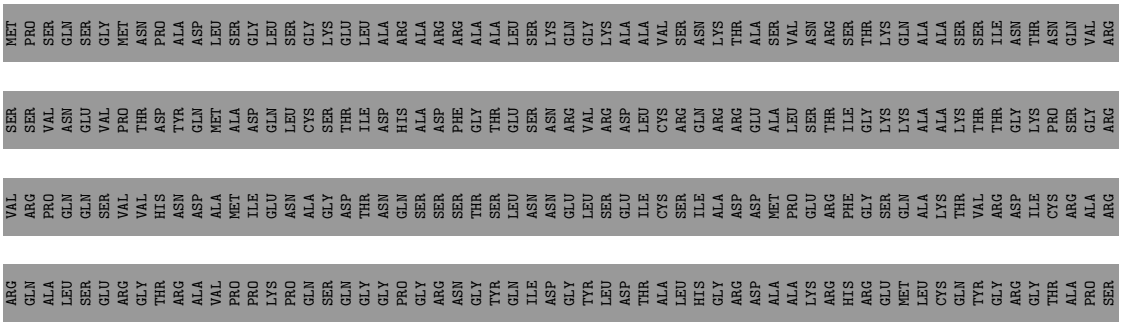
• Molecule 3: Carboxysome assembly protein CsoS2B

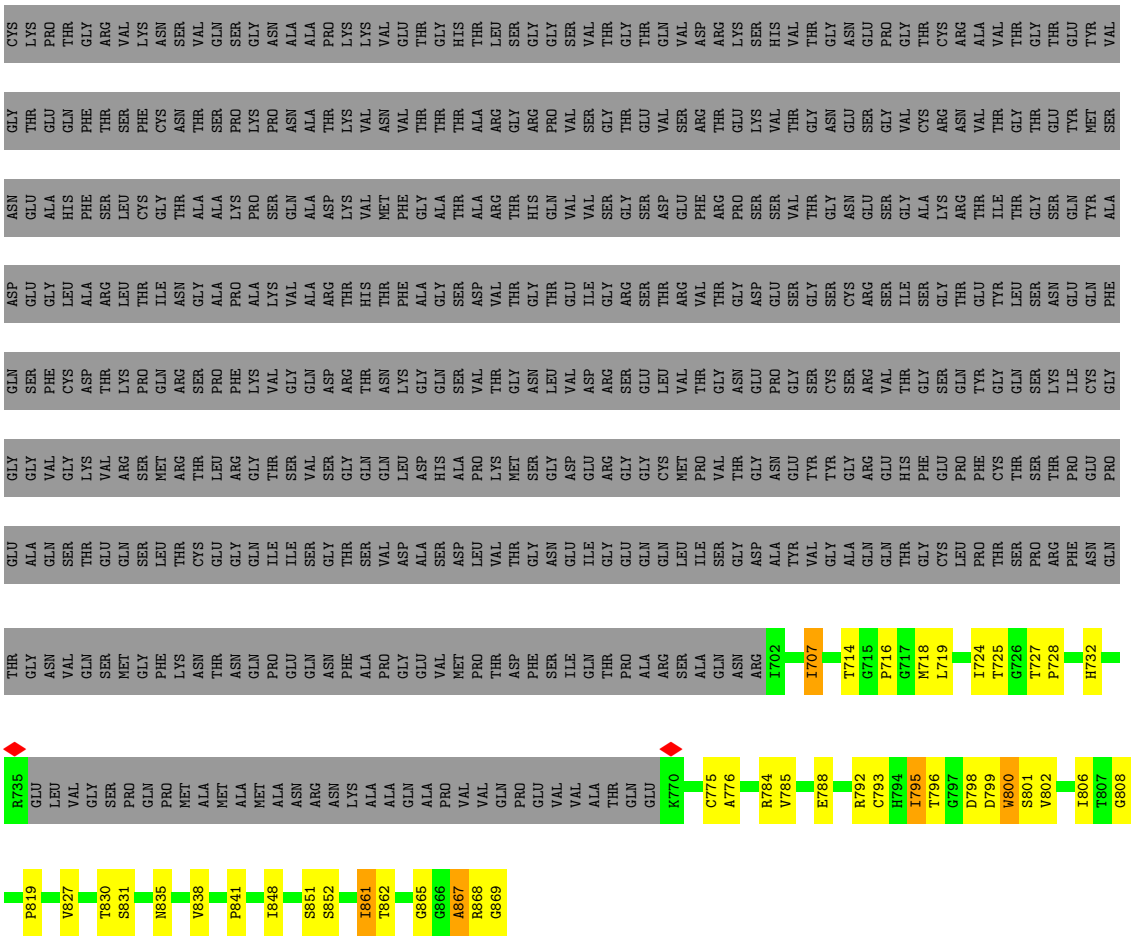
Chain XT:



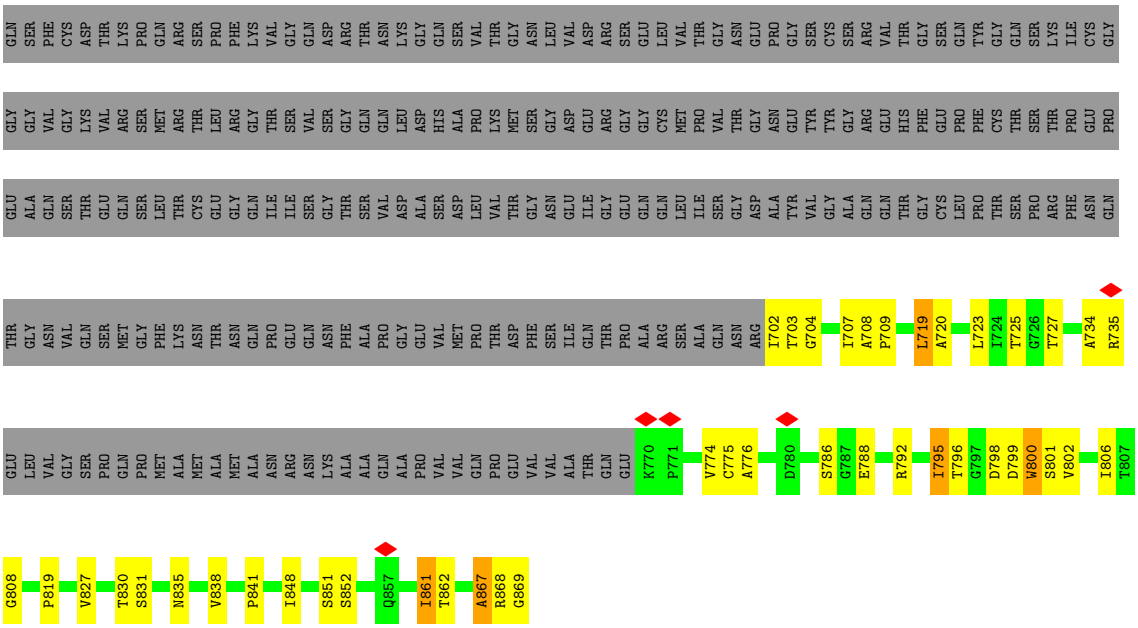
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YP: 11% 85%

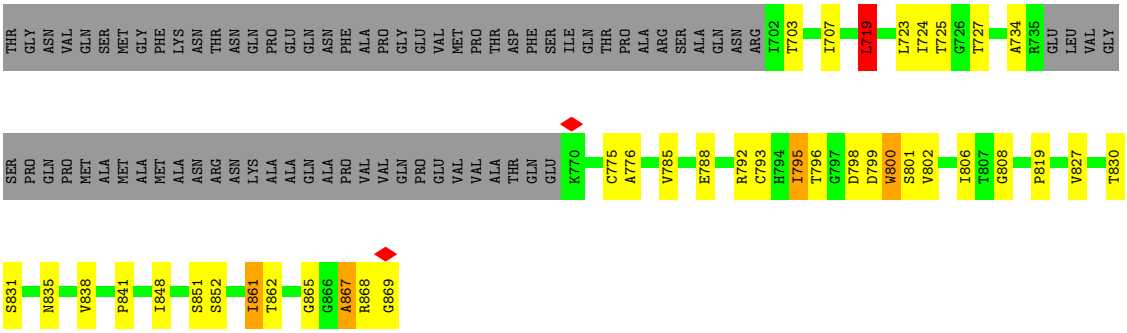




• Molecule 3: Carboxysome assembly protein CsoS2B

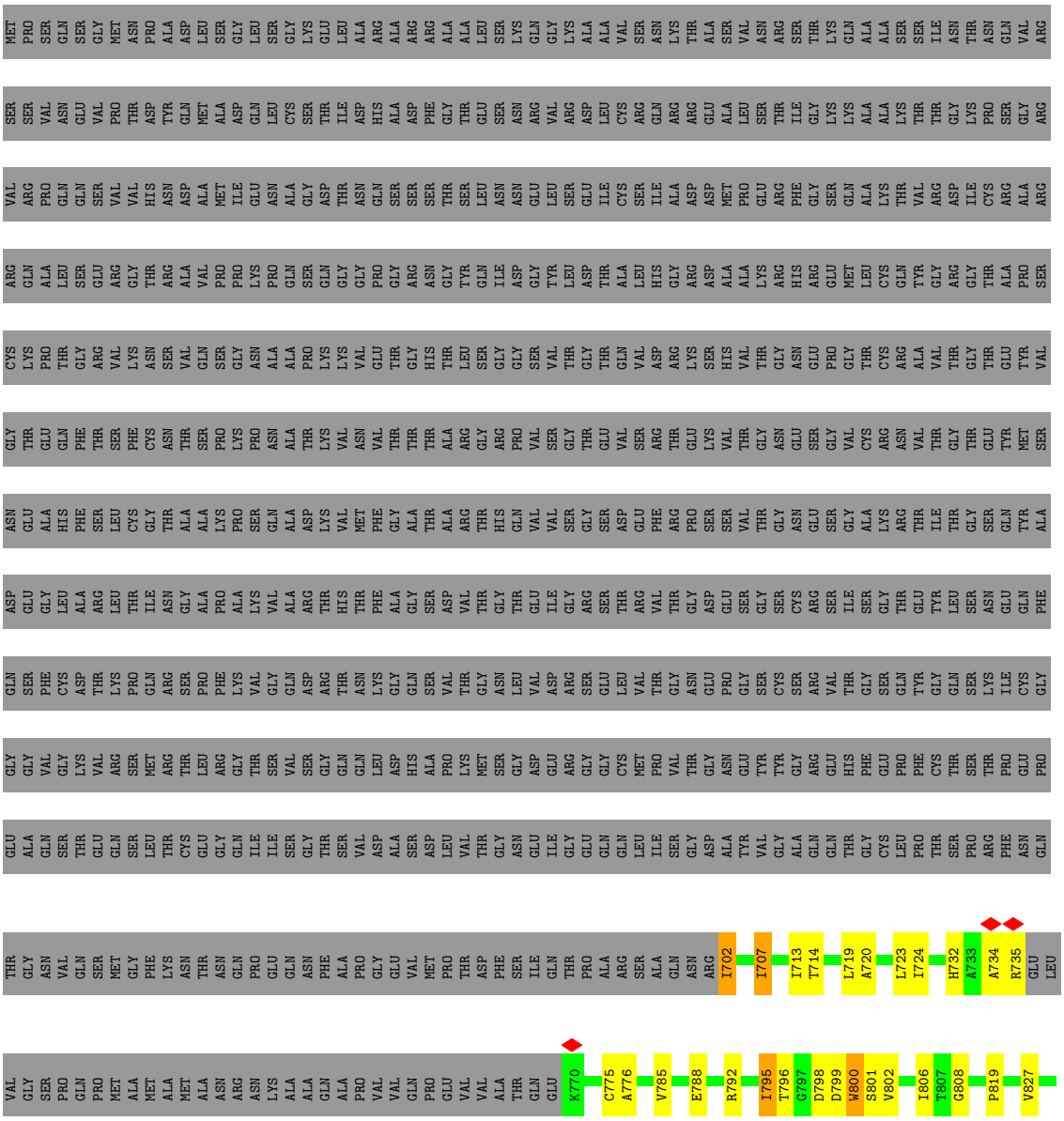


• Molecule 3: Carboxysome assembly protein CsoS2B



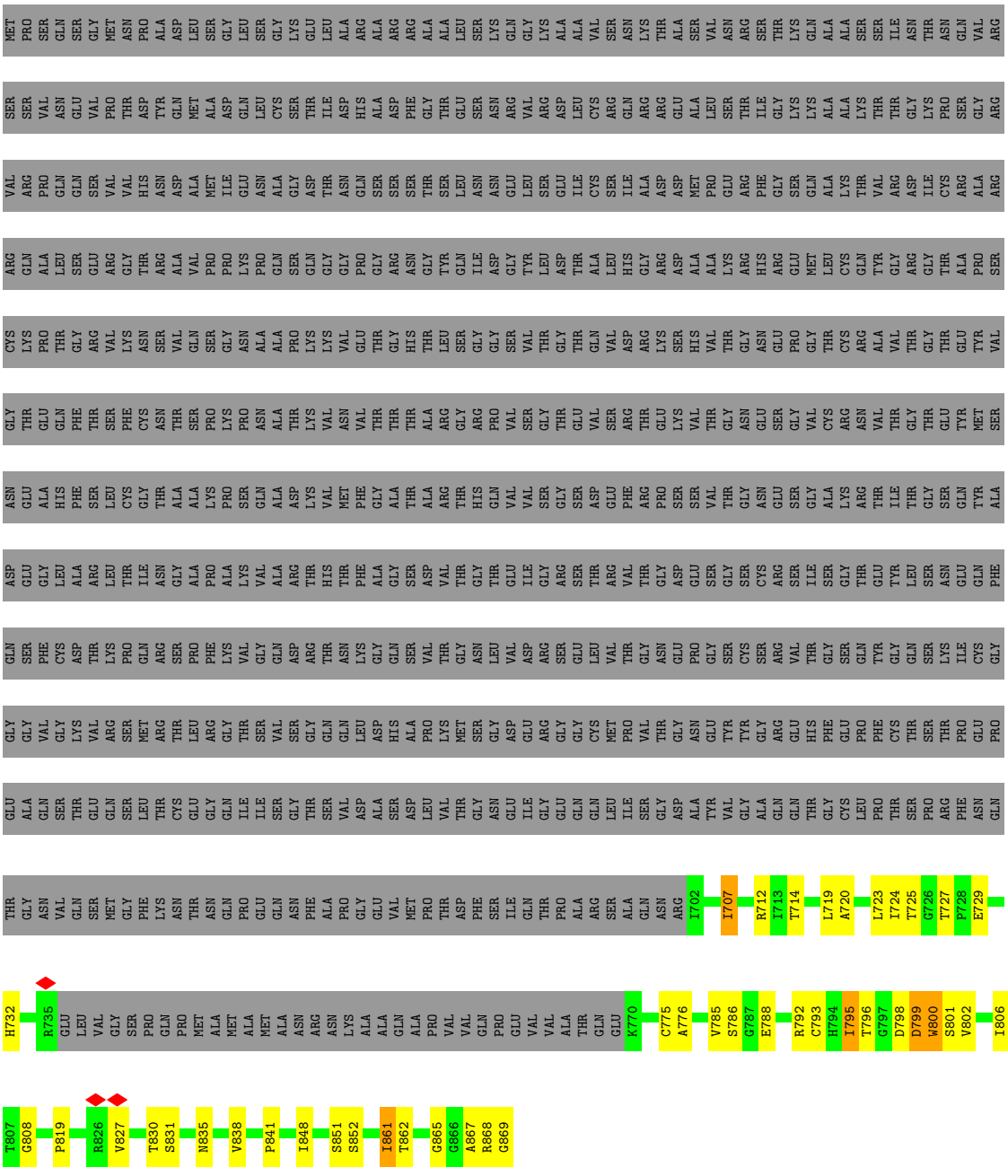
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YS: 11% 85%



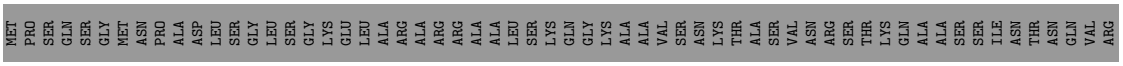
• Molecule 3: Carboxysome assembly protein CsoS2B

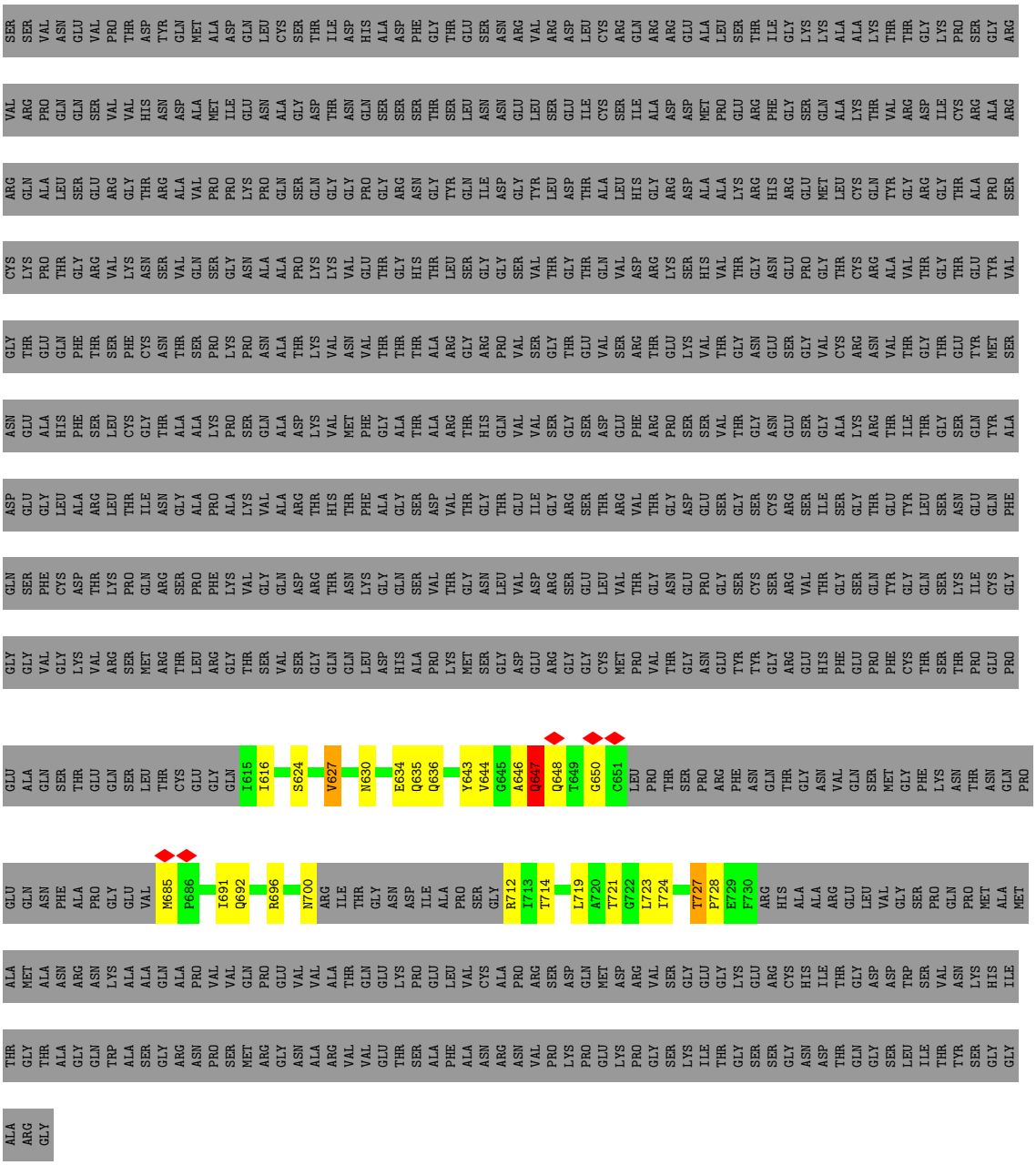
Chain YT: 10% 85%



• Molecule 3: Carboxysome assembly protein CsoS2B

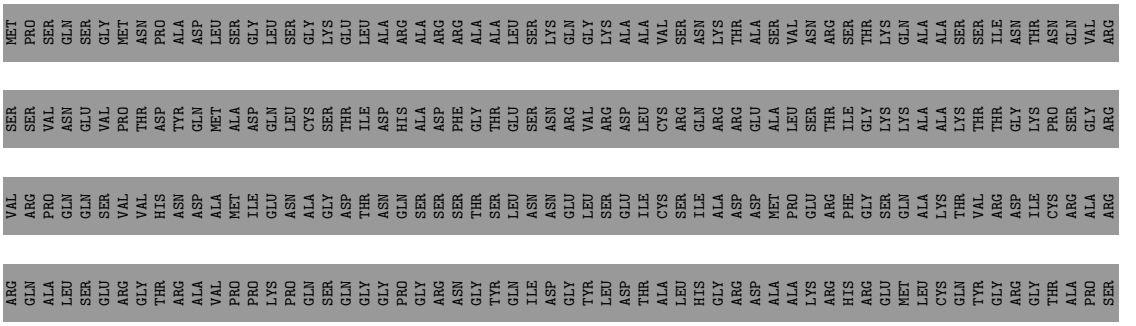
Chain XG: 5% 92%

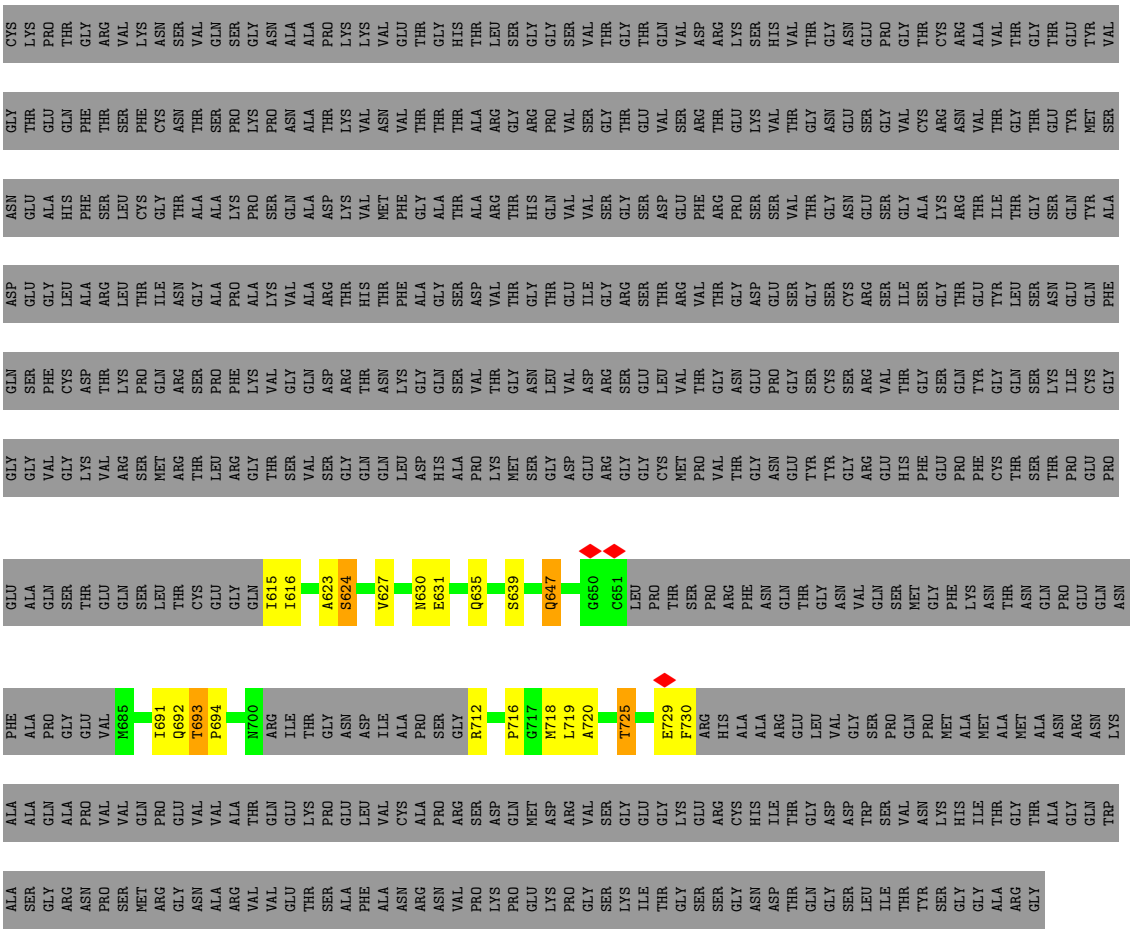




• Molecule 3: Carboxysome assembly protein CsoS2B

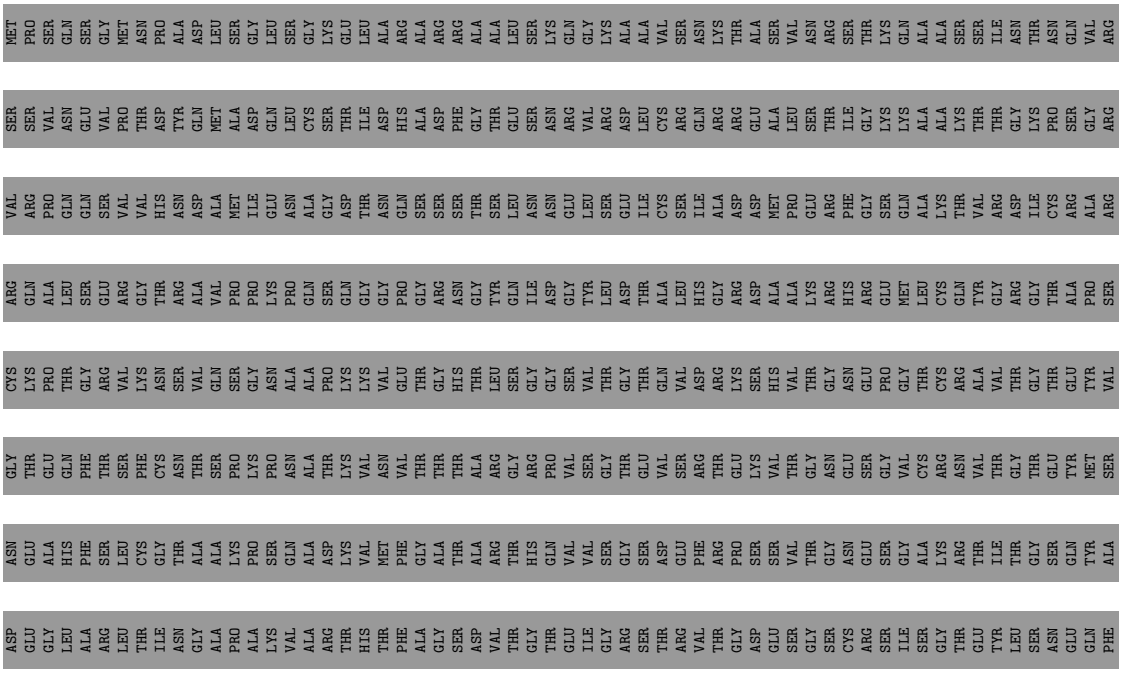
Chain XH: 6% 92%

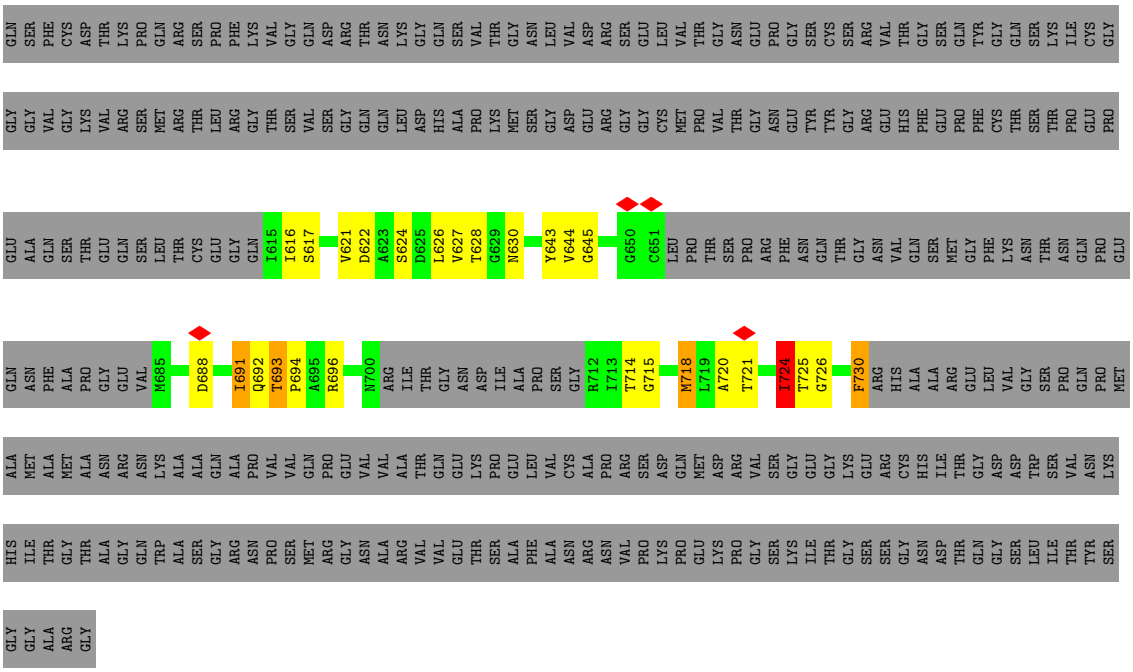




• Molecule 3: Carboxysome assembly protein CsoS2B

Chain XK: 5% 92%



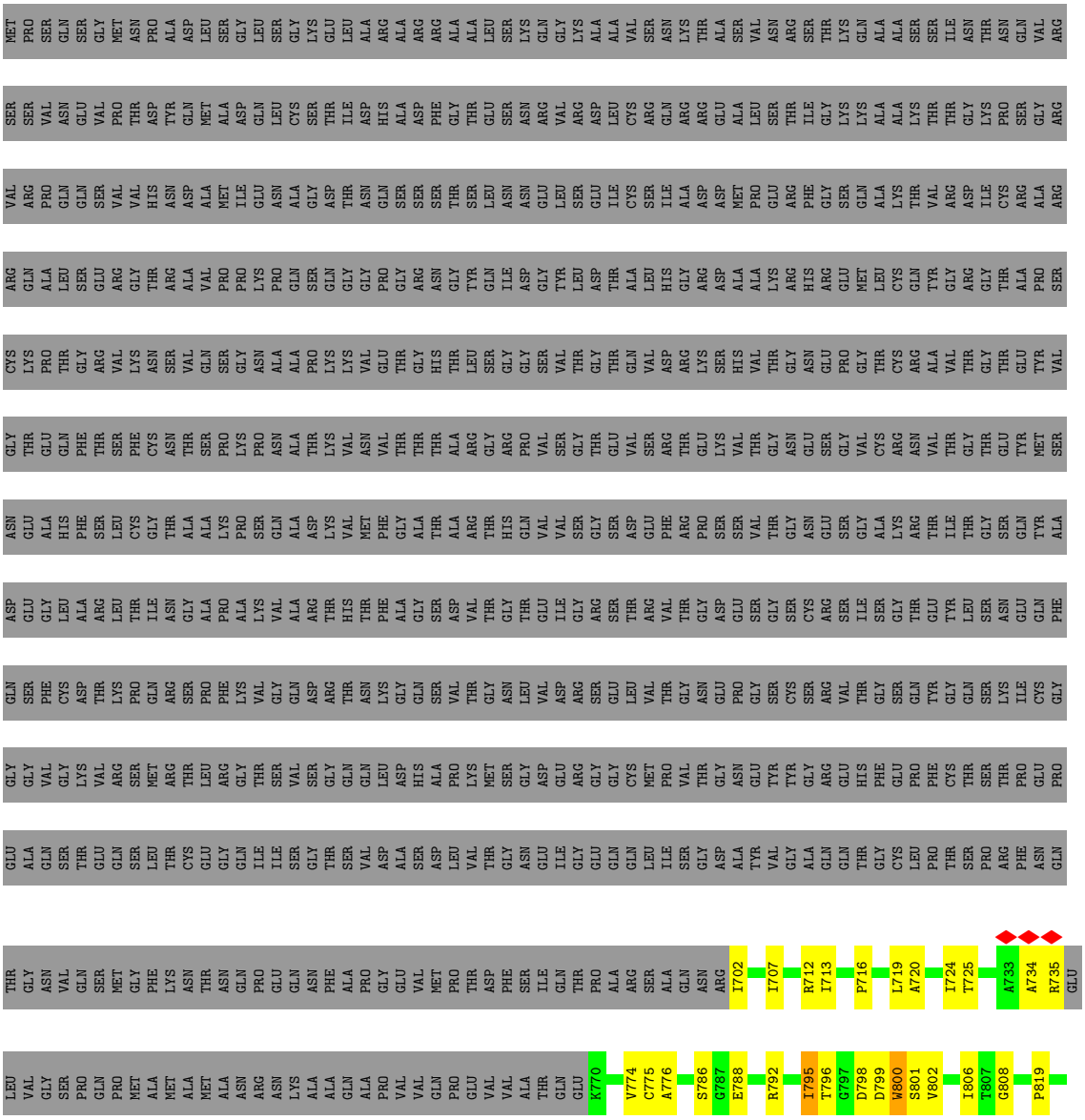


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YG: 11% 85%

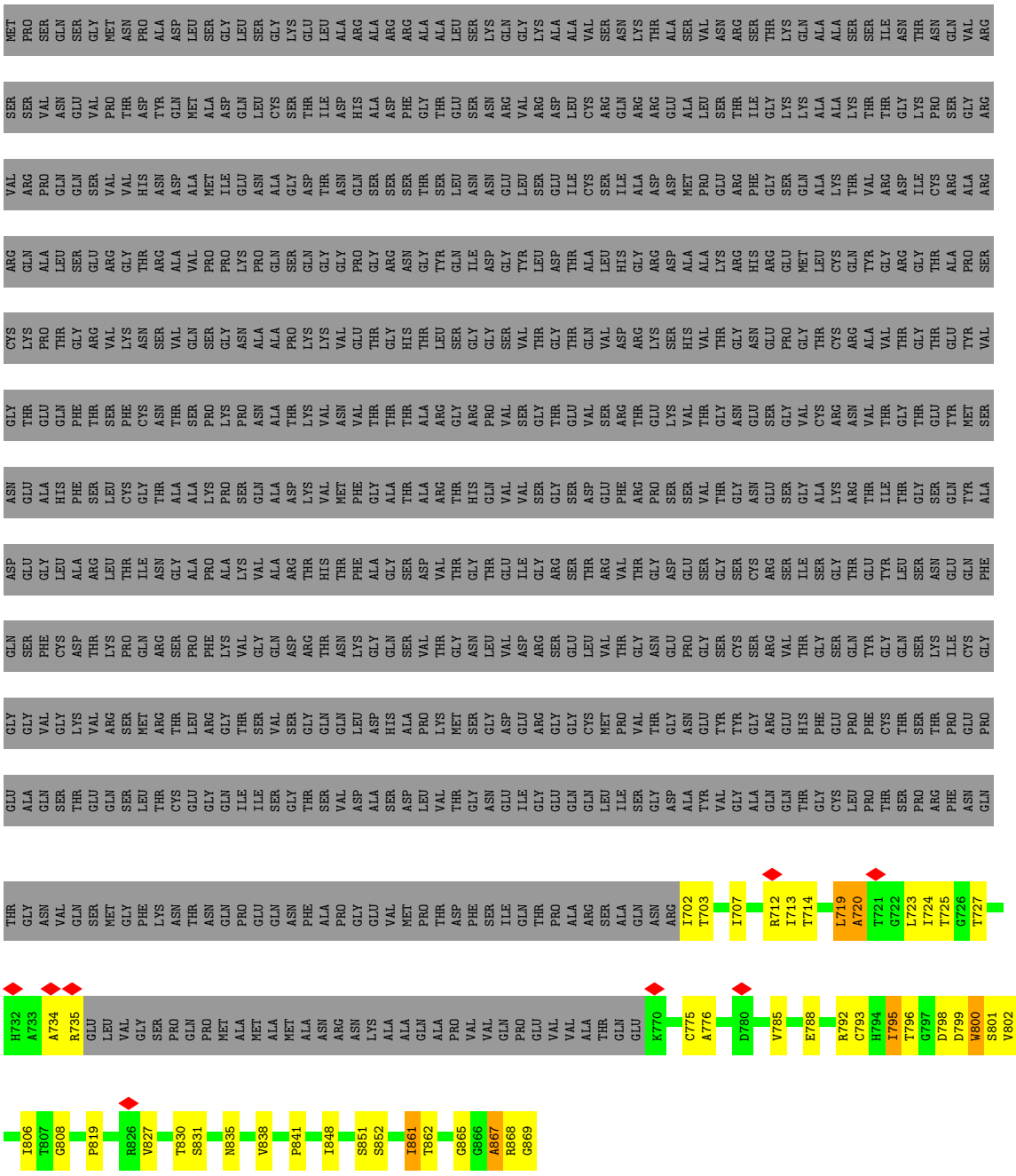
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YH: 11% 85%



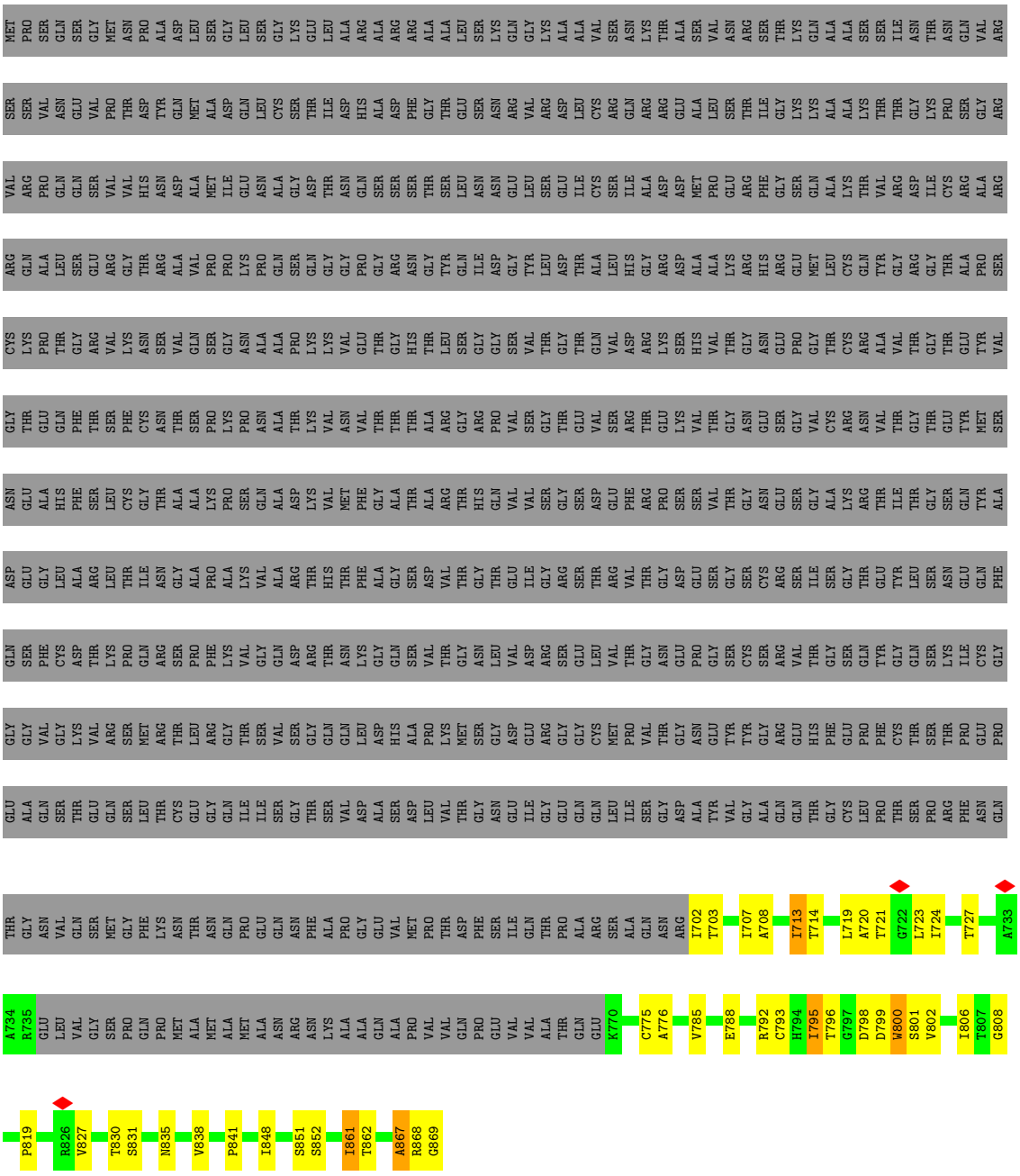
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YI:



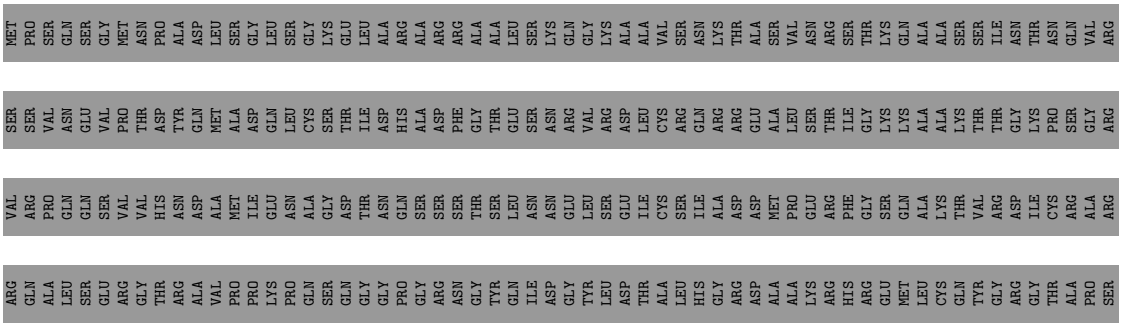
• Molecule 3: Carboxysome assembly protein CsoS2B

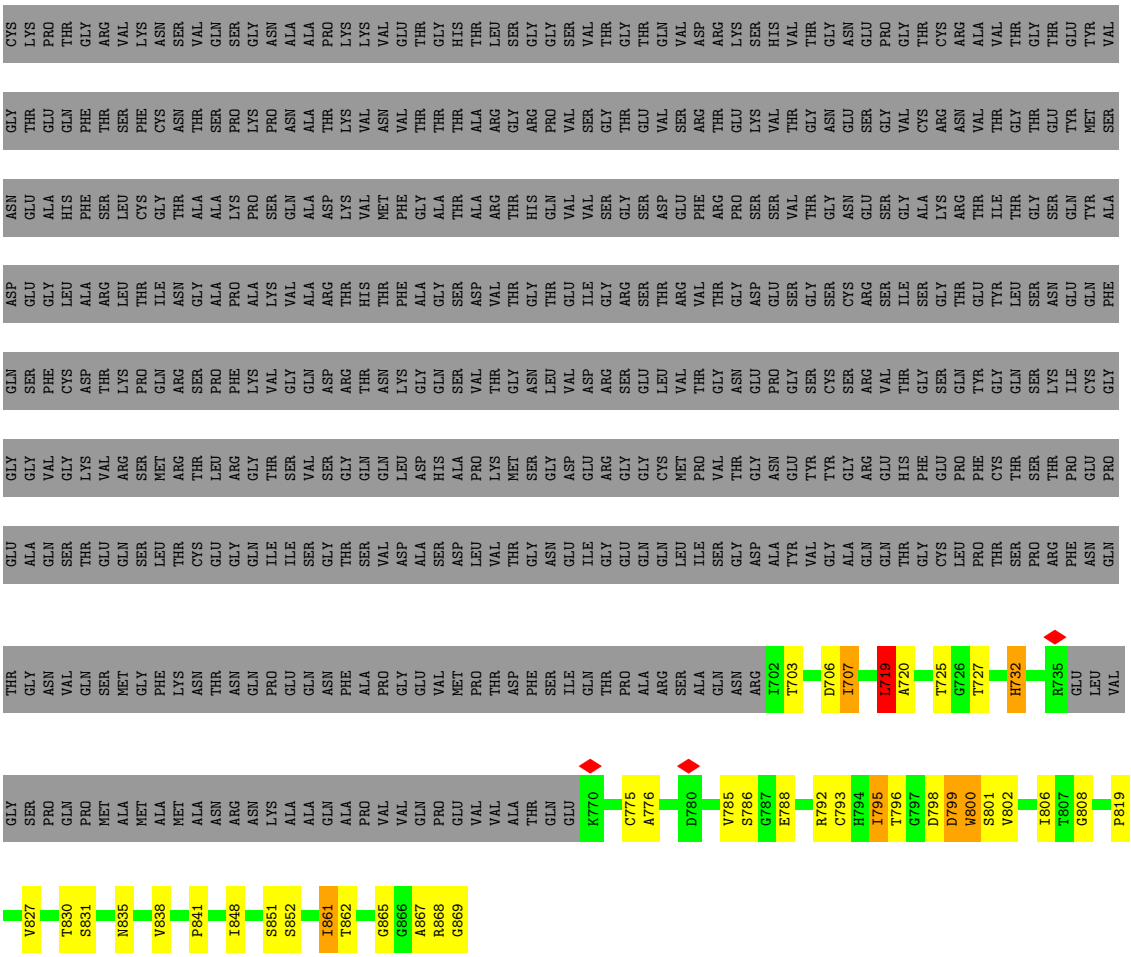
Chain YJ:



• Molecule 3: Carboxysome assembly protein CsoS2B

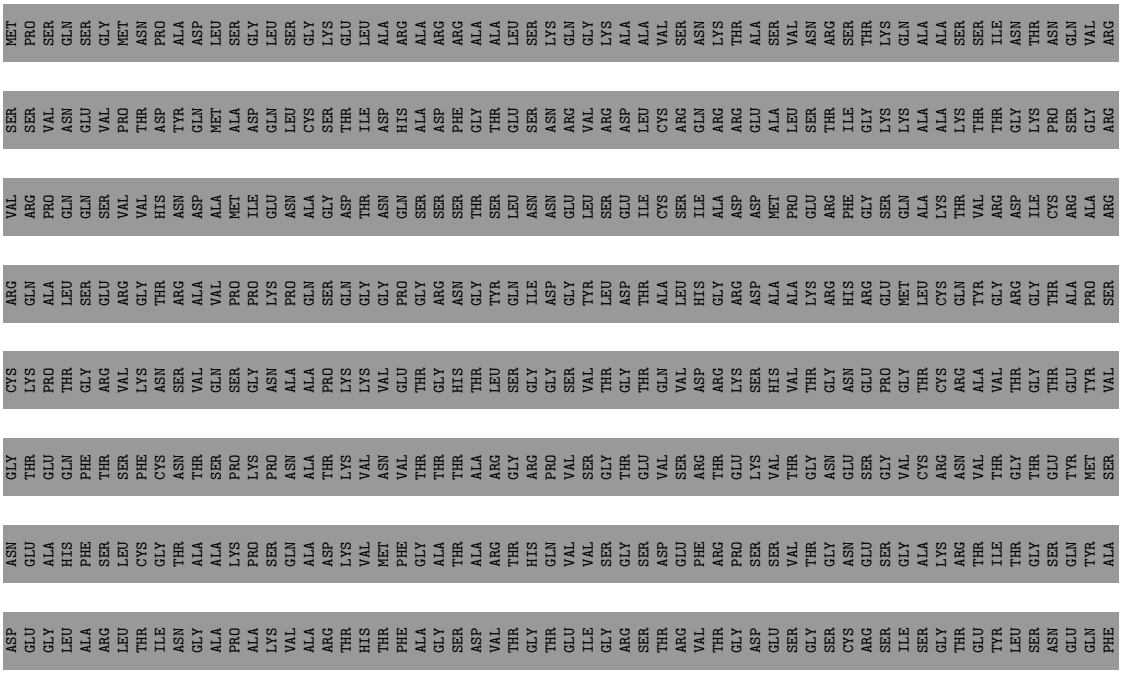
Chain YK:

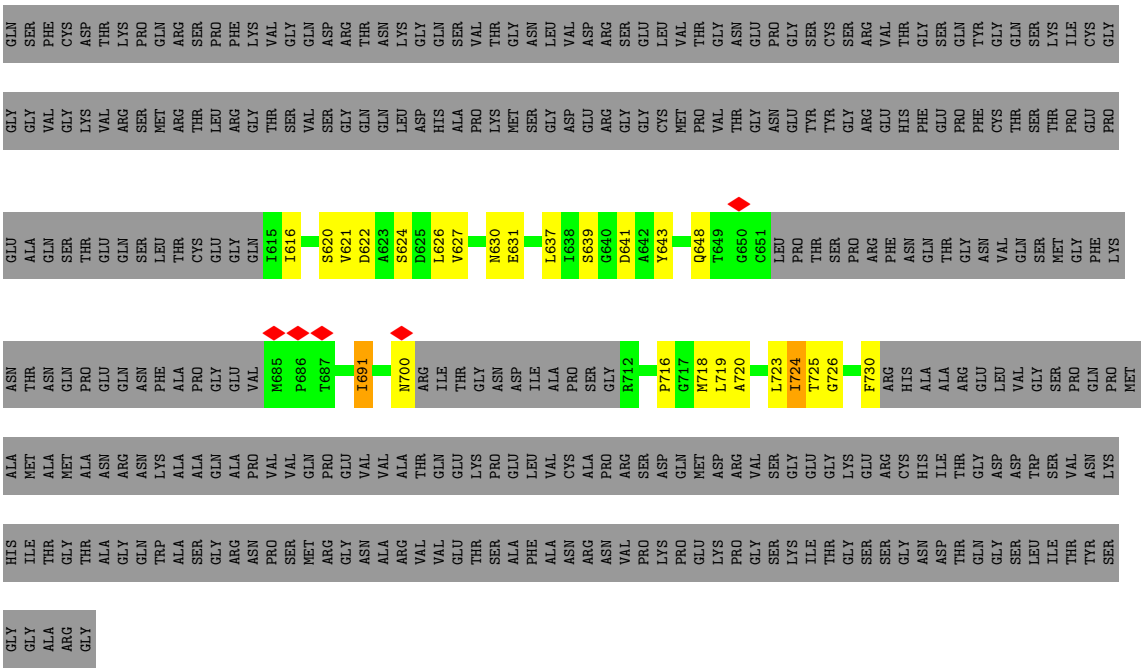




• Molecule 3: Carboxysome assembly protein CsoS2B

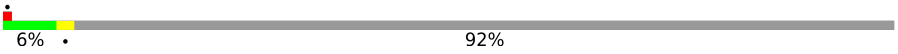
Chain XL: 5% 92%

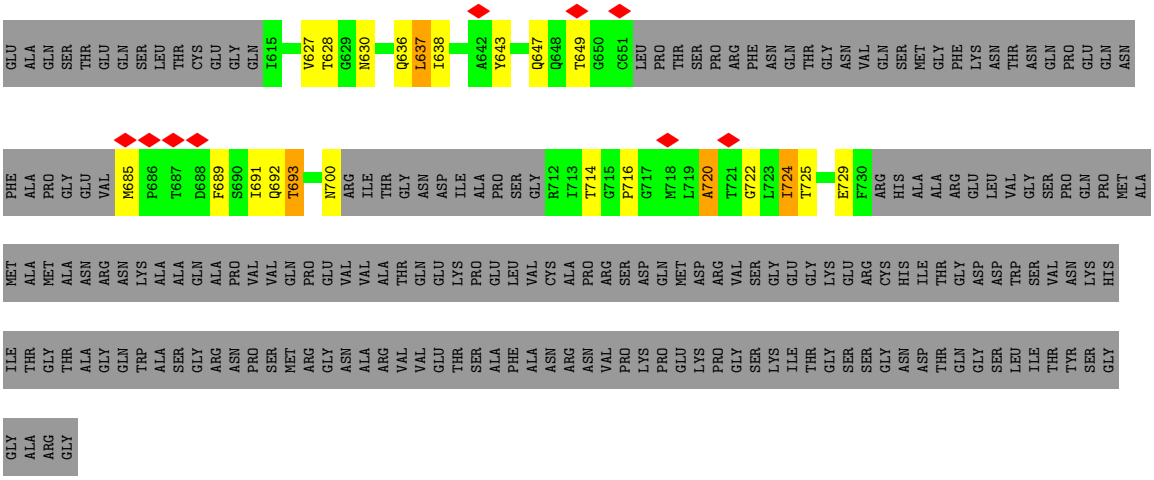




• Molecule 3: Carboxysome assembly protein CsoS2B

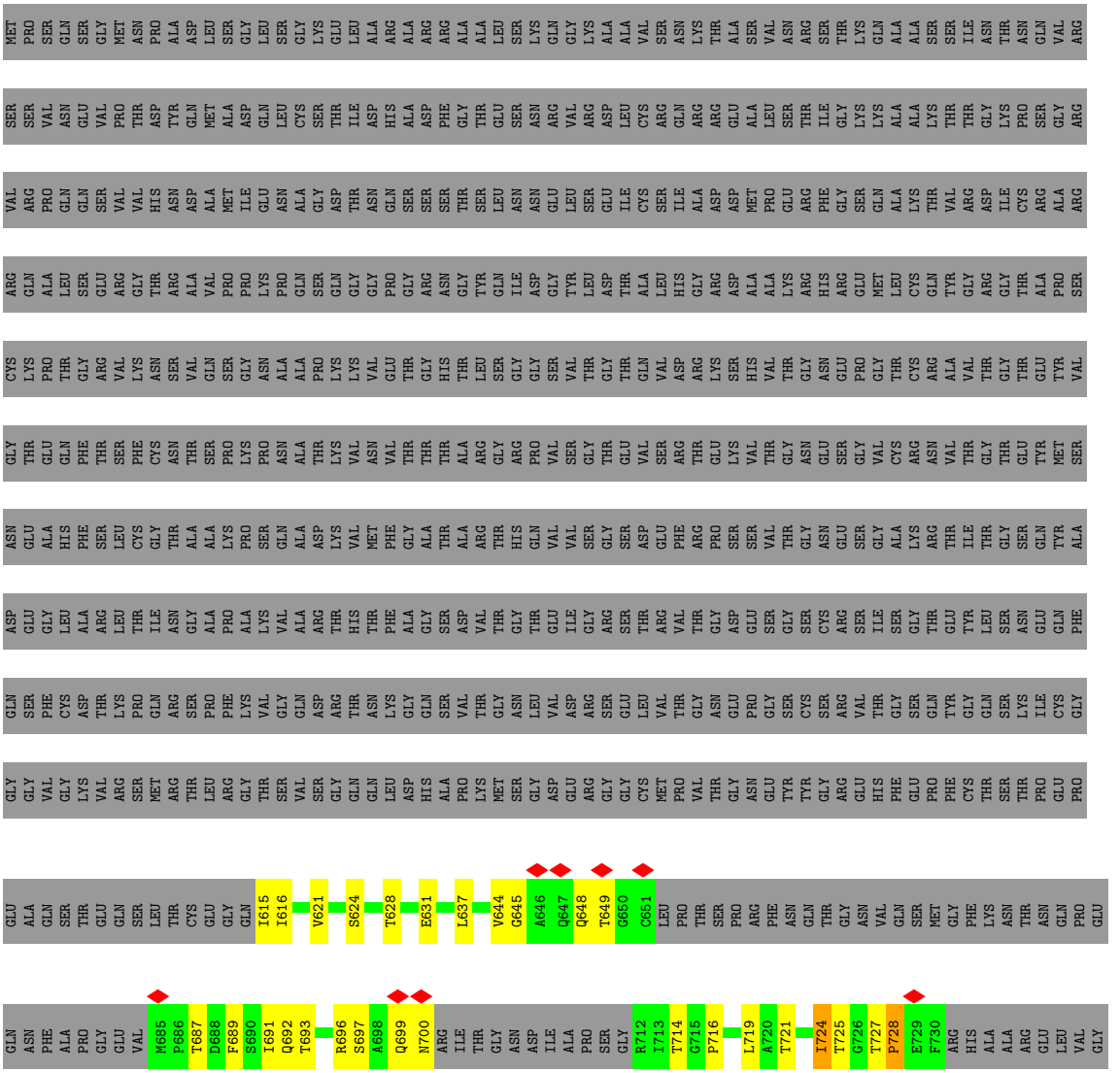
Chain XO:

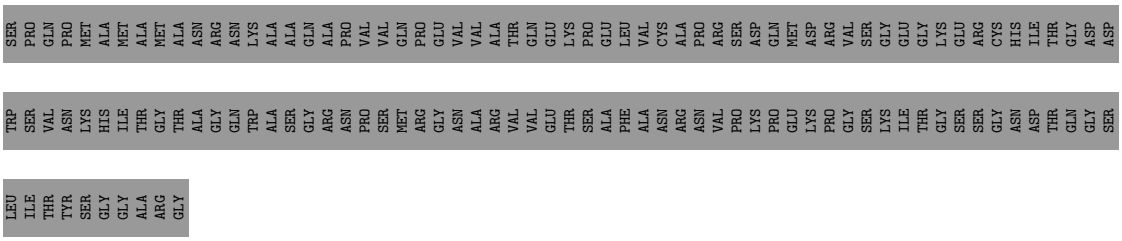




• Molecule 3: Carboxysome assembly protein CsoS2B

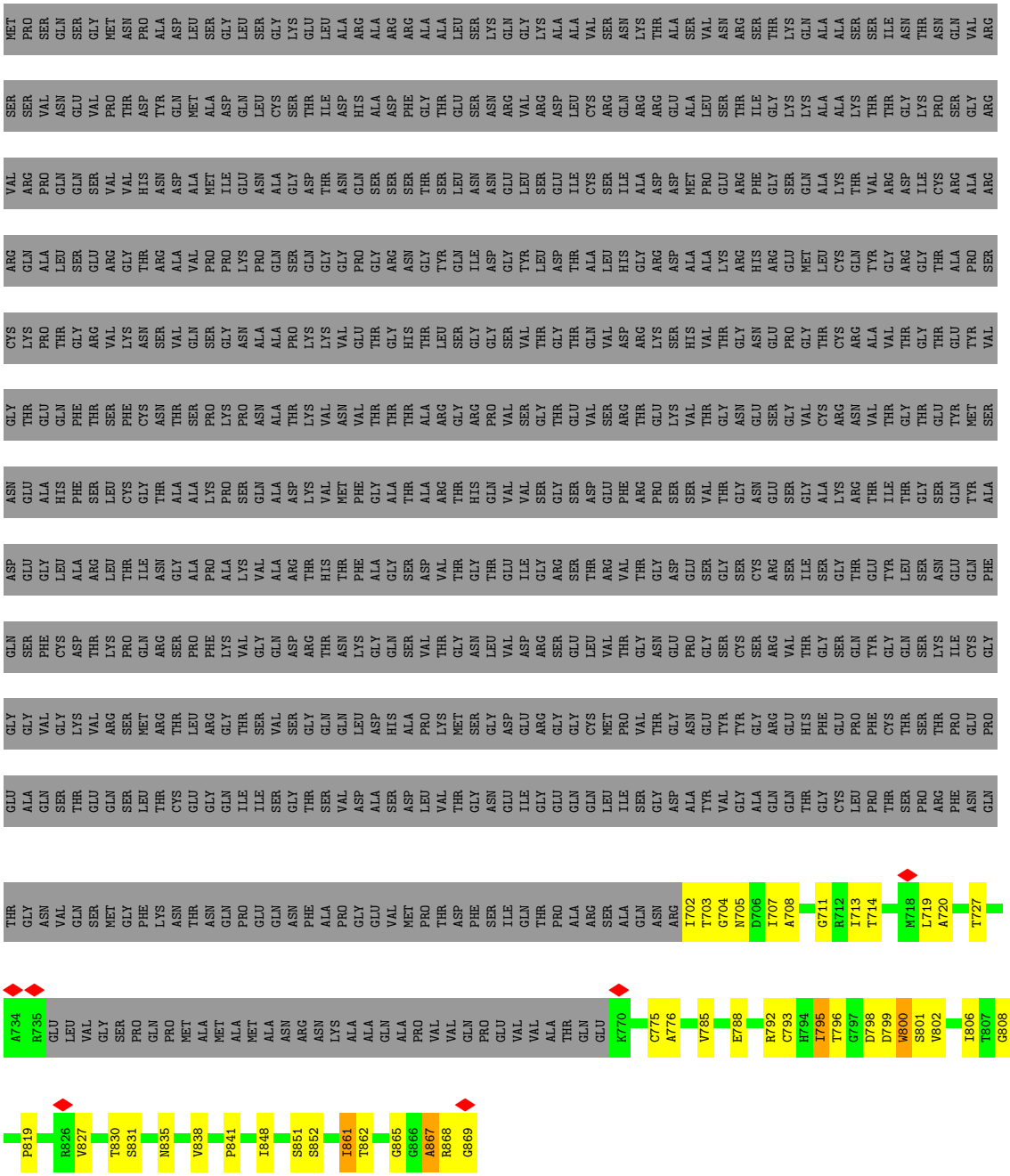
Chain XF: 5% 92%





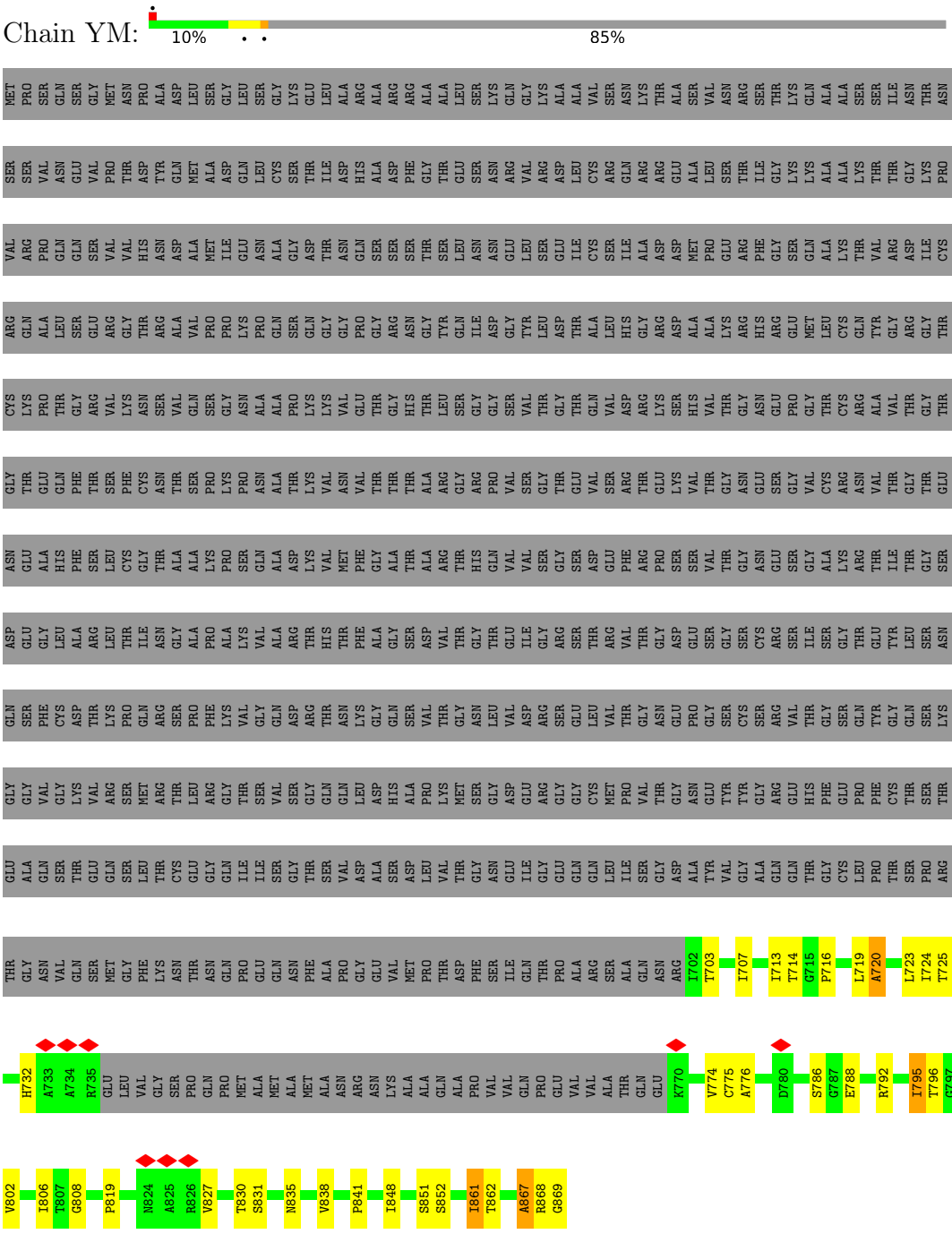
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YL:



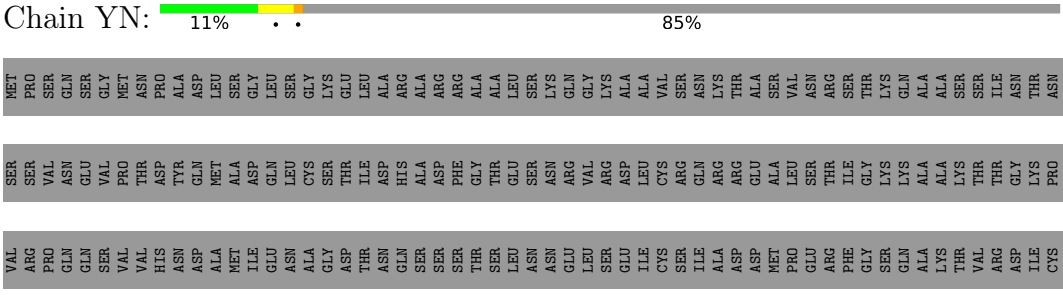
• Molecule 3: Carboxysome assembly protein CsoS2B

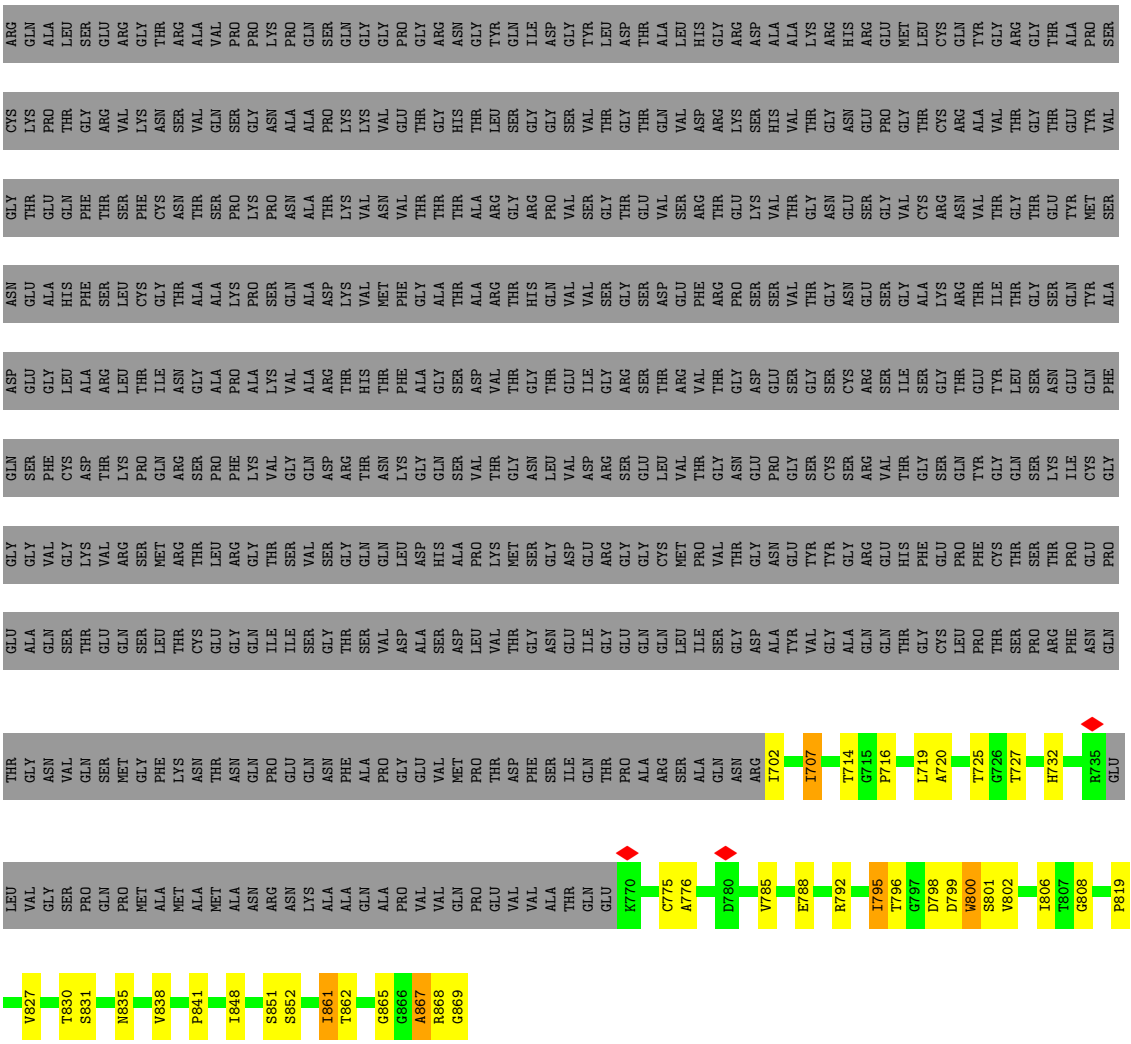
Chain YM:



• Molecule 3: Carboxysome assembly protein CsoS2B

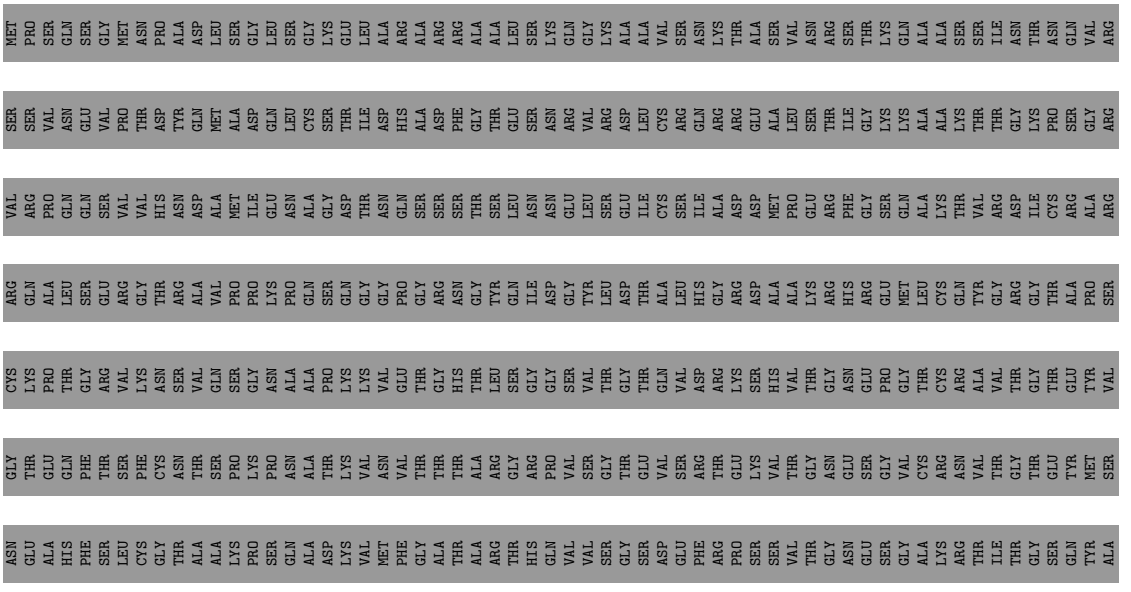
Chain YN:

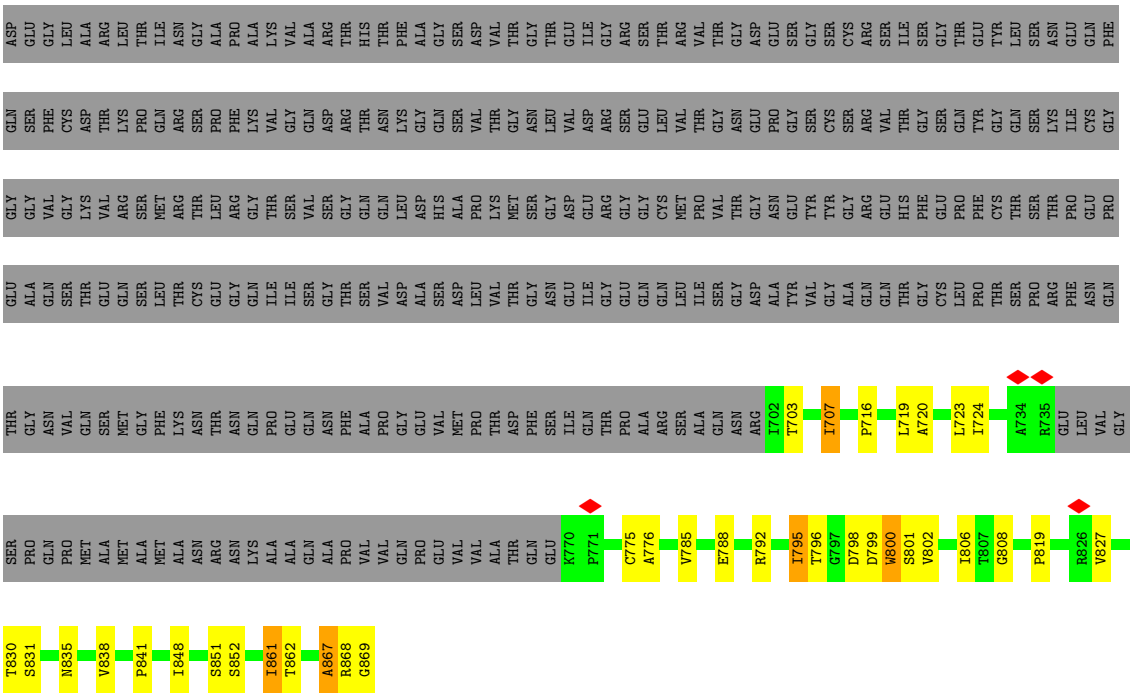




• Molecule 3: Carboxysome assembly protein CsoS2B

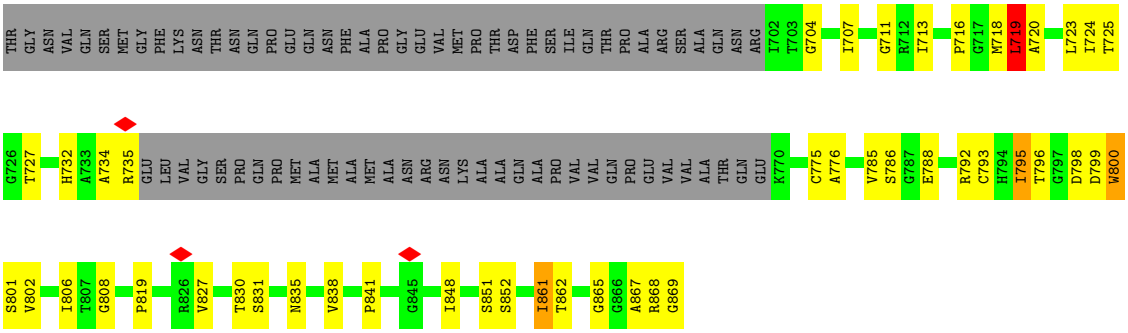
Chain YO: 11% 85%





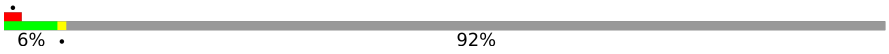
• Molecule 3: Carboxysome assembly protein CsoS2B

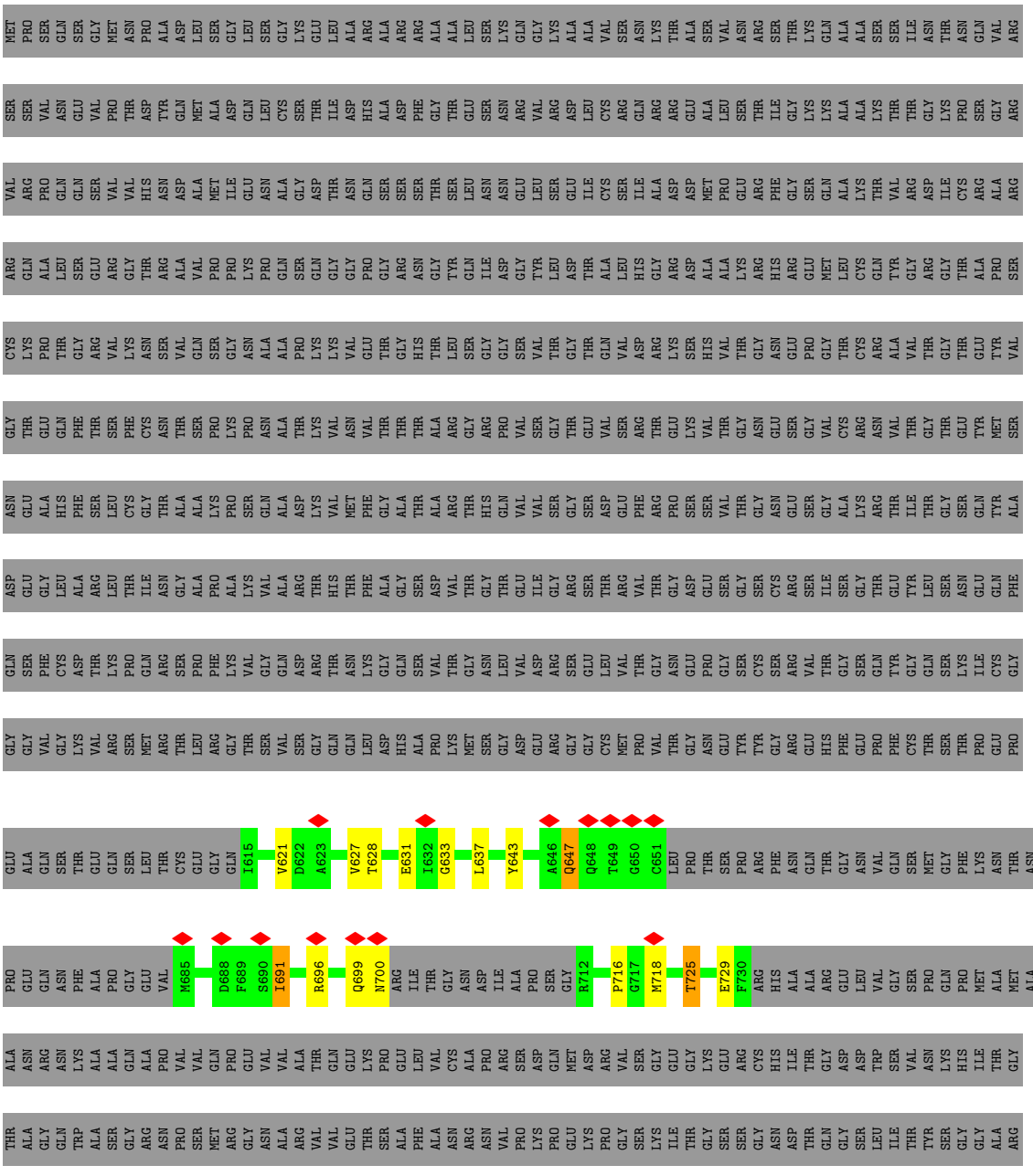
Chain YF:



• Molecule 3: Carboxysome assembly protein CsoS2B

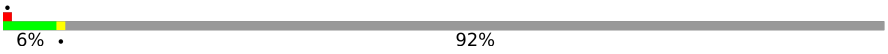
Chain Xe:

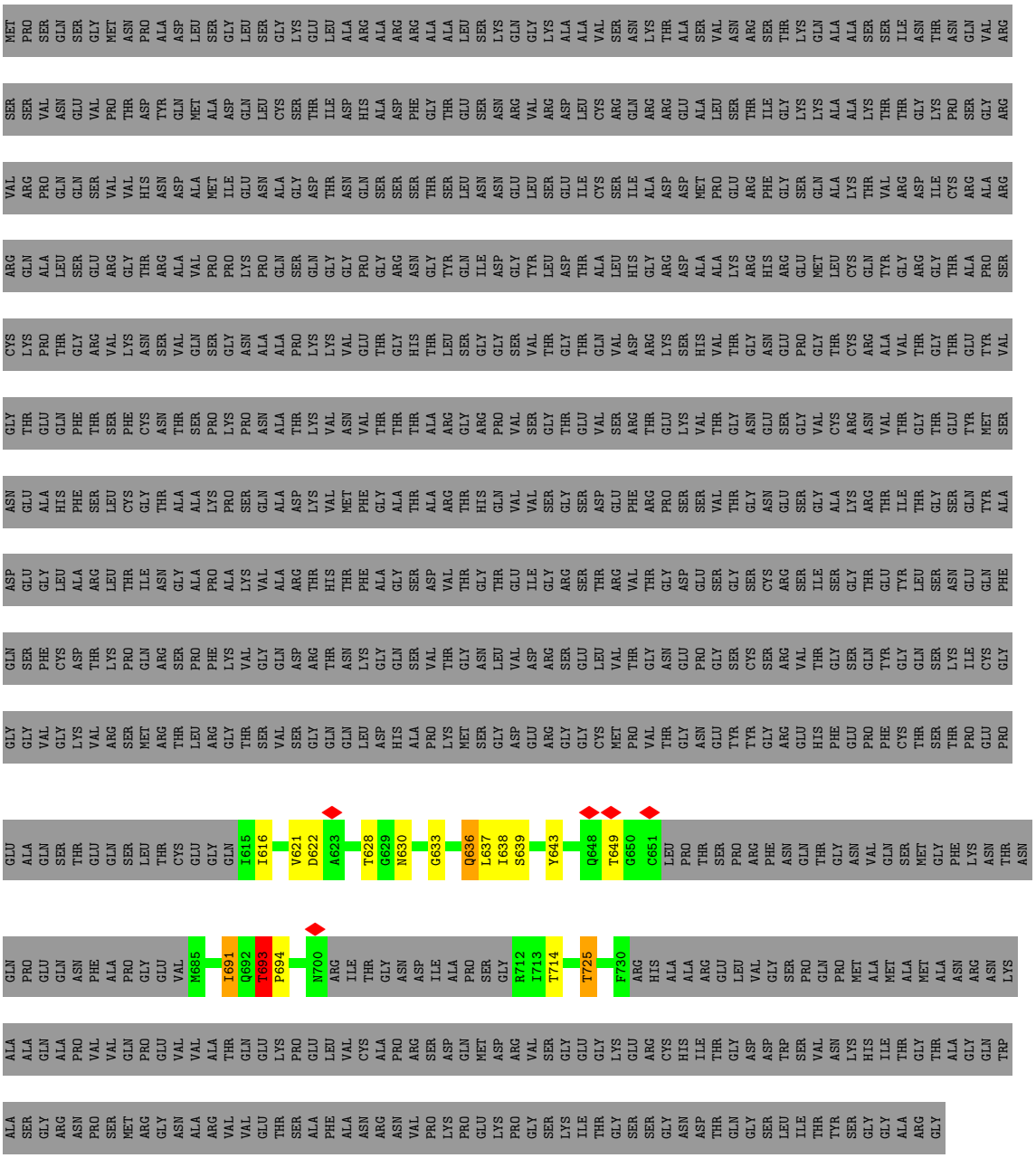




• Molecule 3: Carboxysome assembly protein CsoS2B

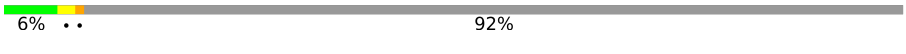
Chain Xf:

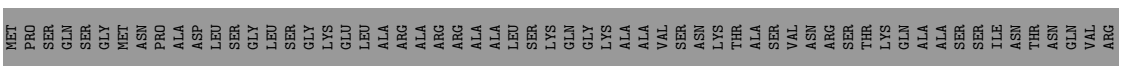


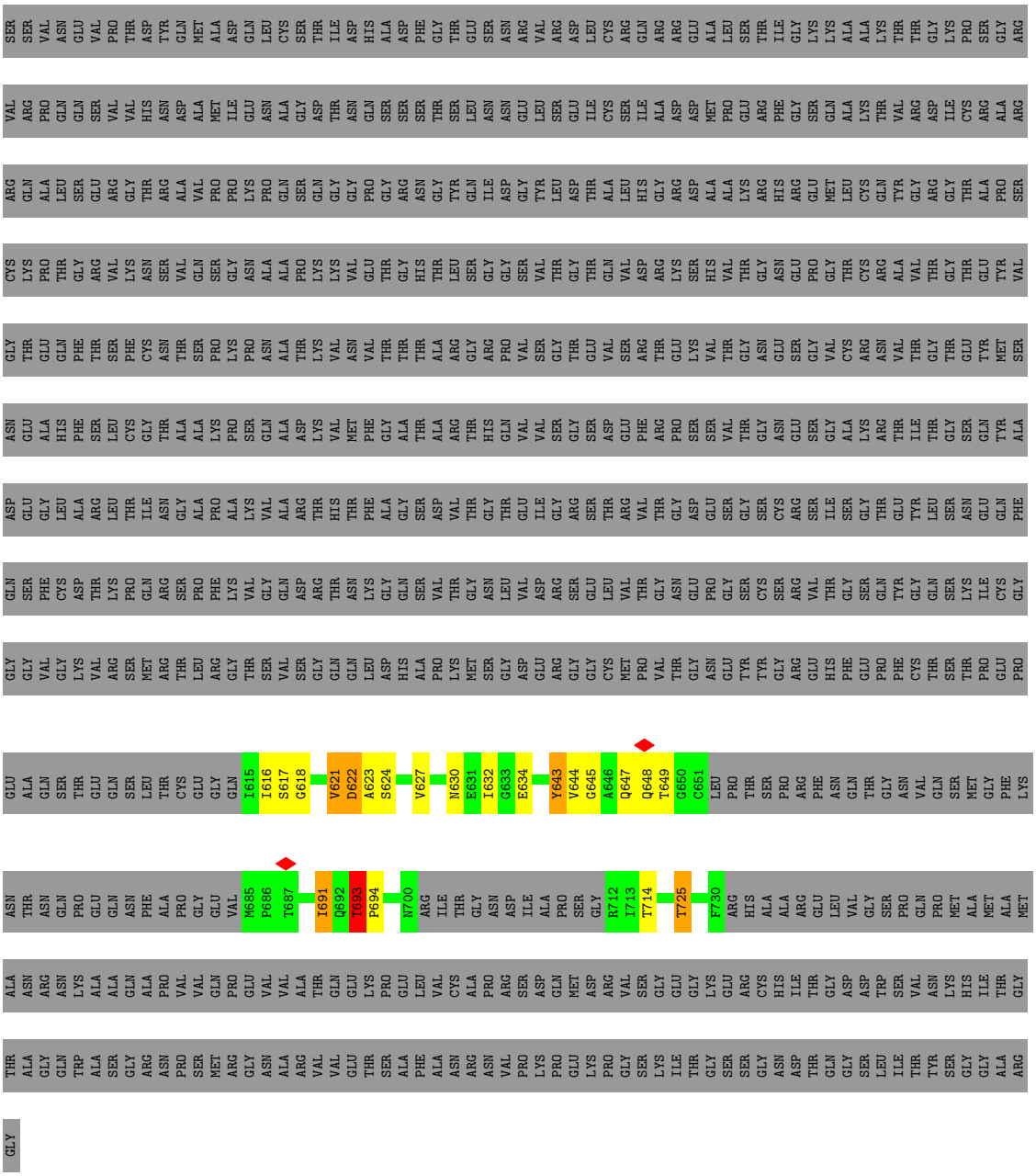


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xg:

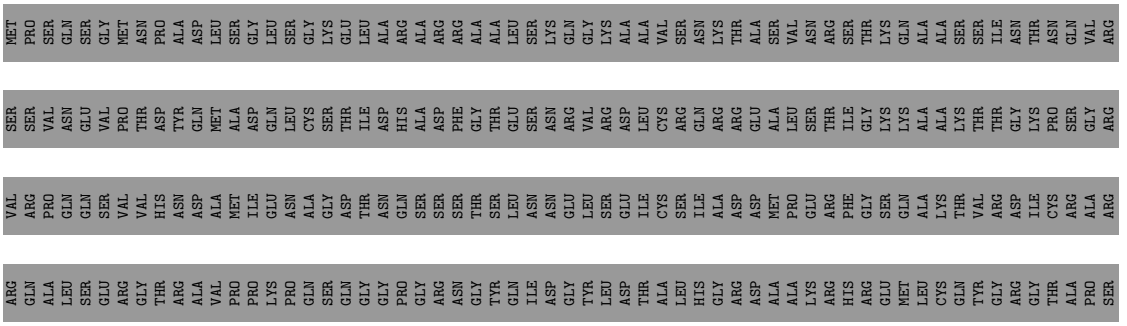


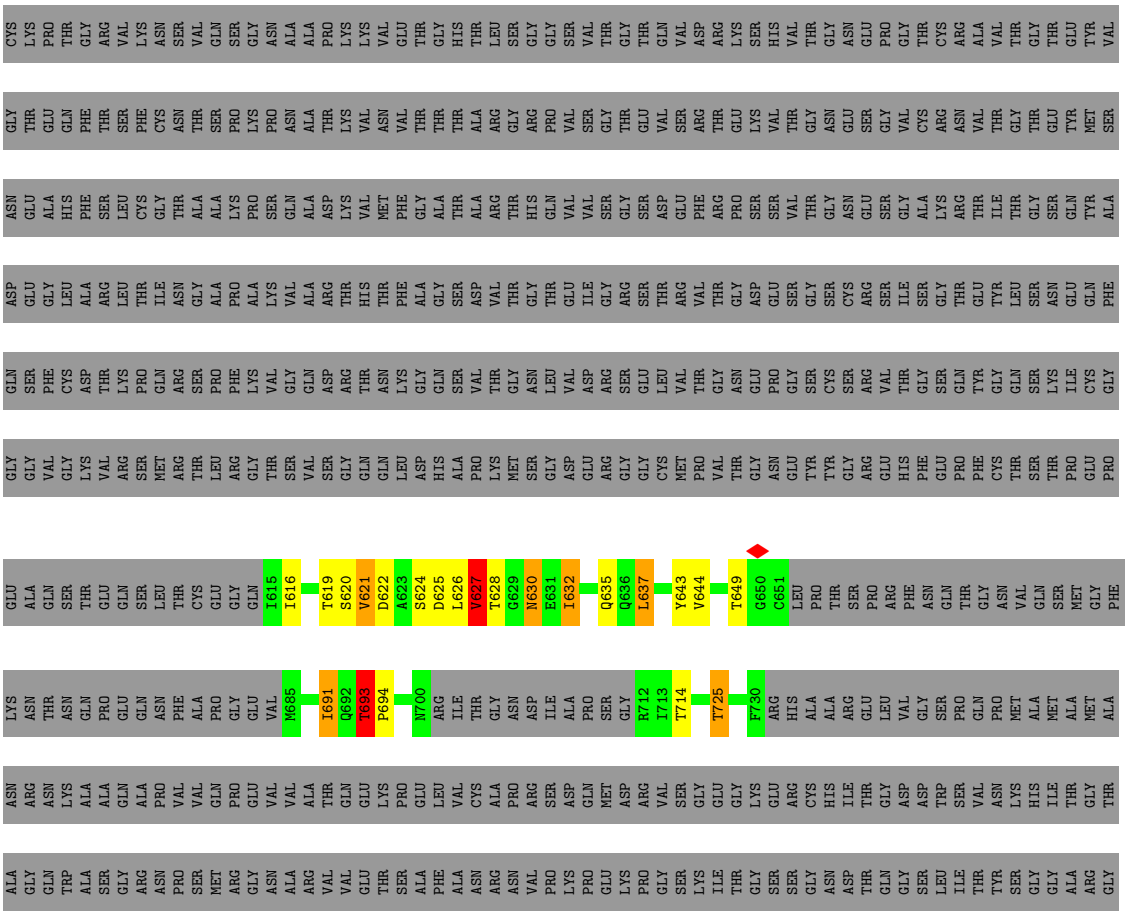




• Molecule 3: Carboxysome assembly protein CsoS2B

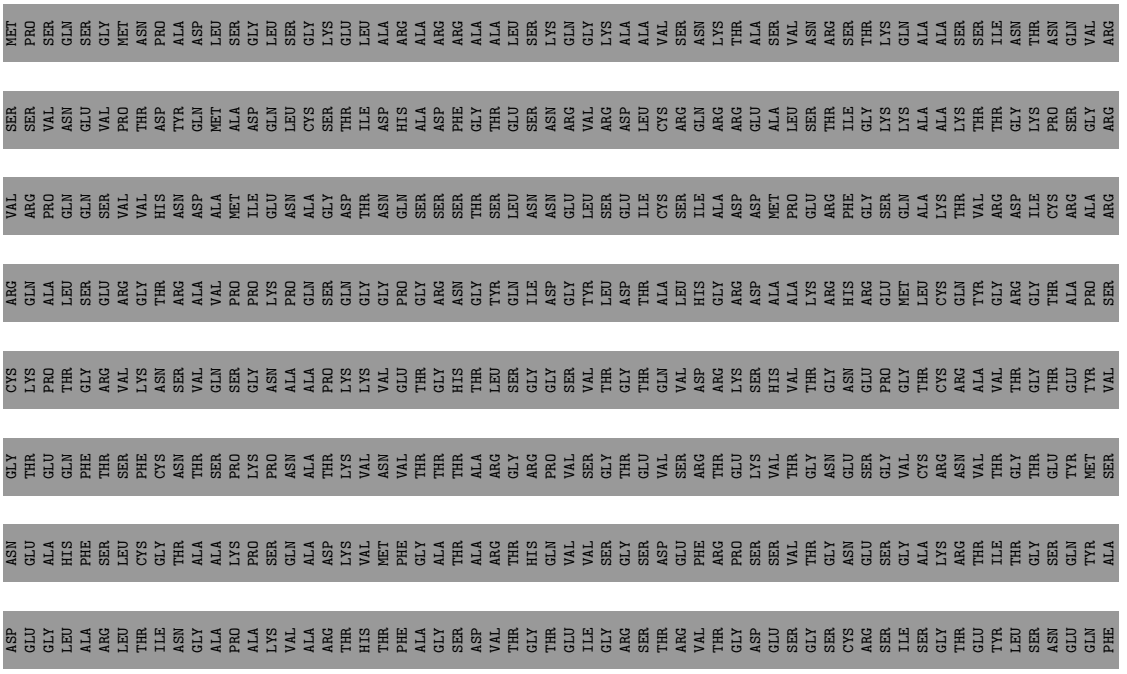
Chain Xi: 6% 92%

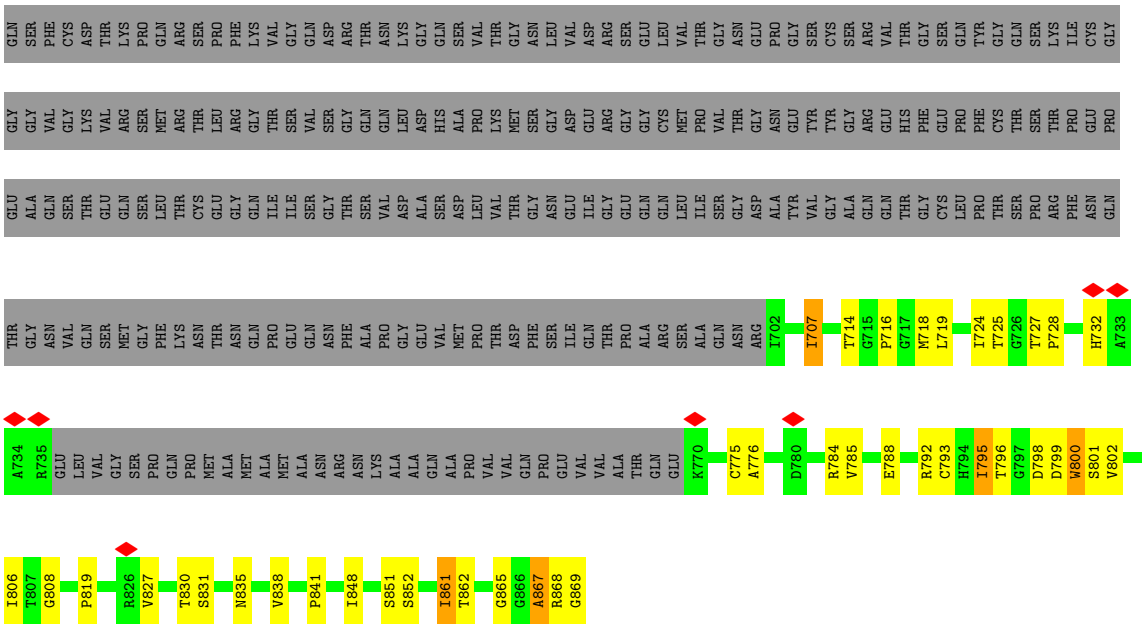




• Molecule 3: Carboxysome assembly protein CsoS2B

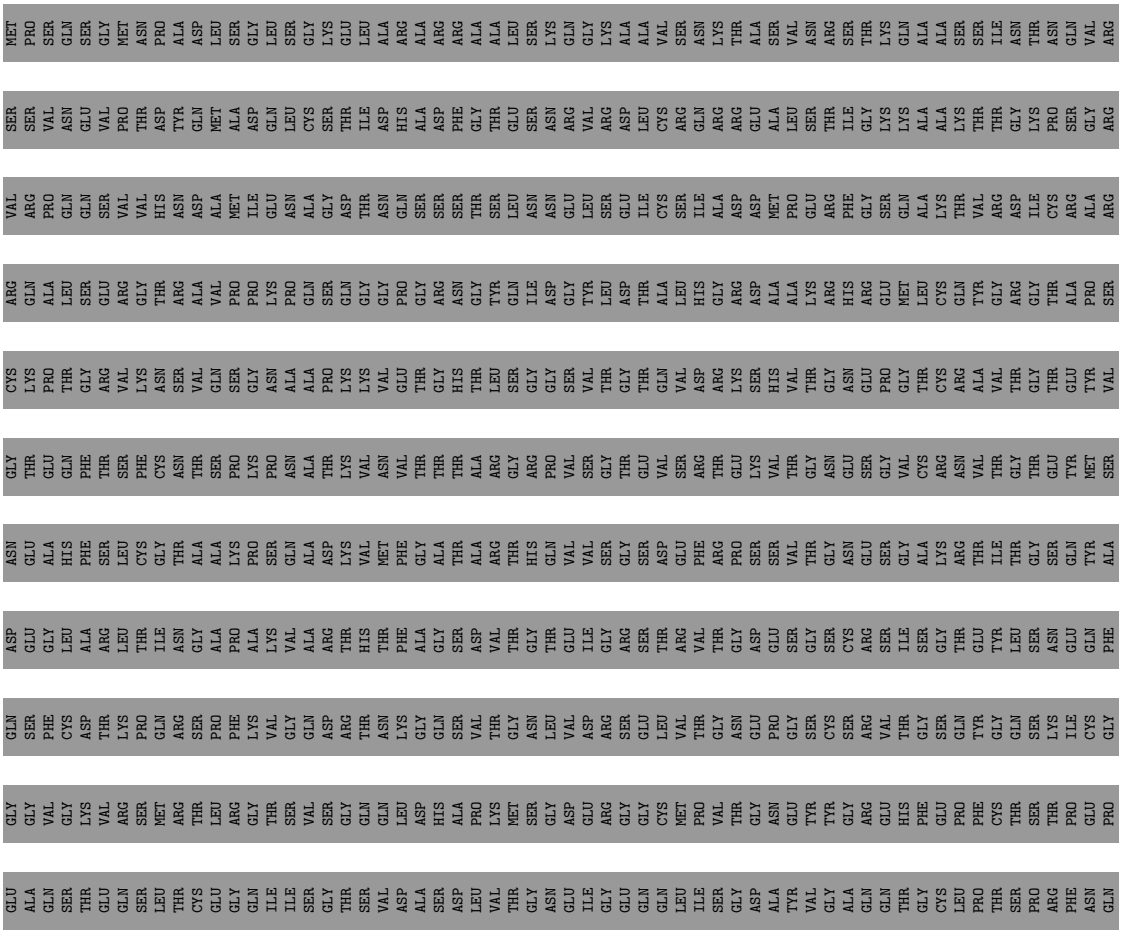
Chain Ye:

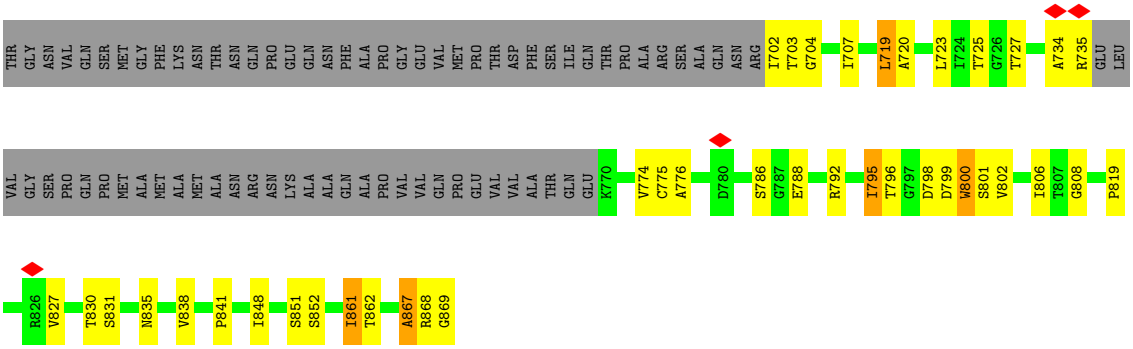




• Molecule 3: Carboxysome assembly protein CsoS2B

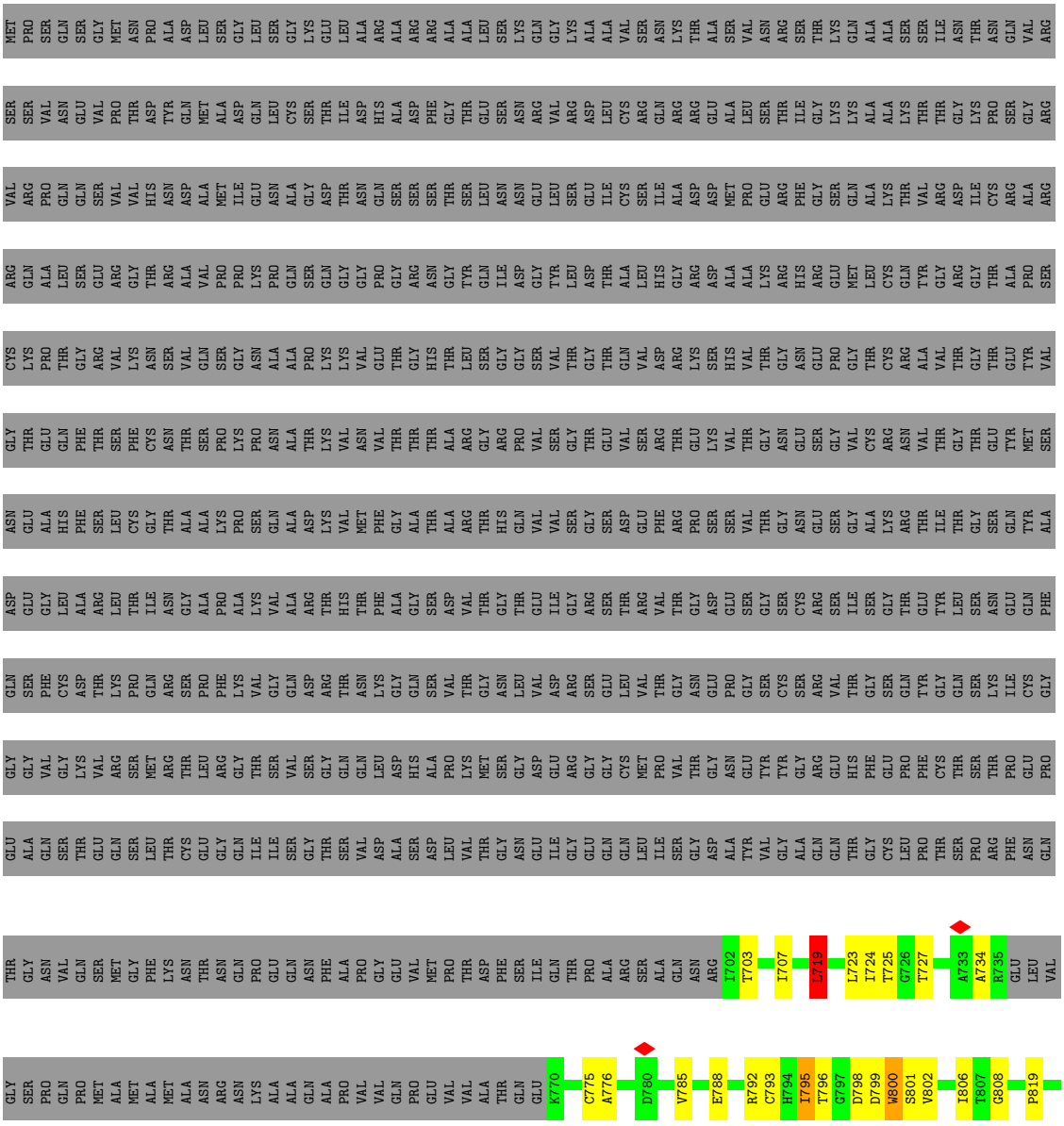
Chain Yf: 11% 85%

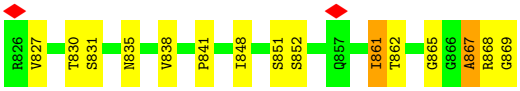




• Molecule 3: Carboxysome assembly protein CsoS2B

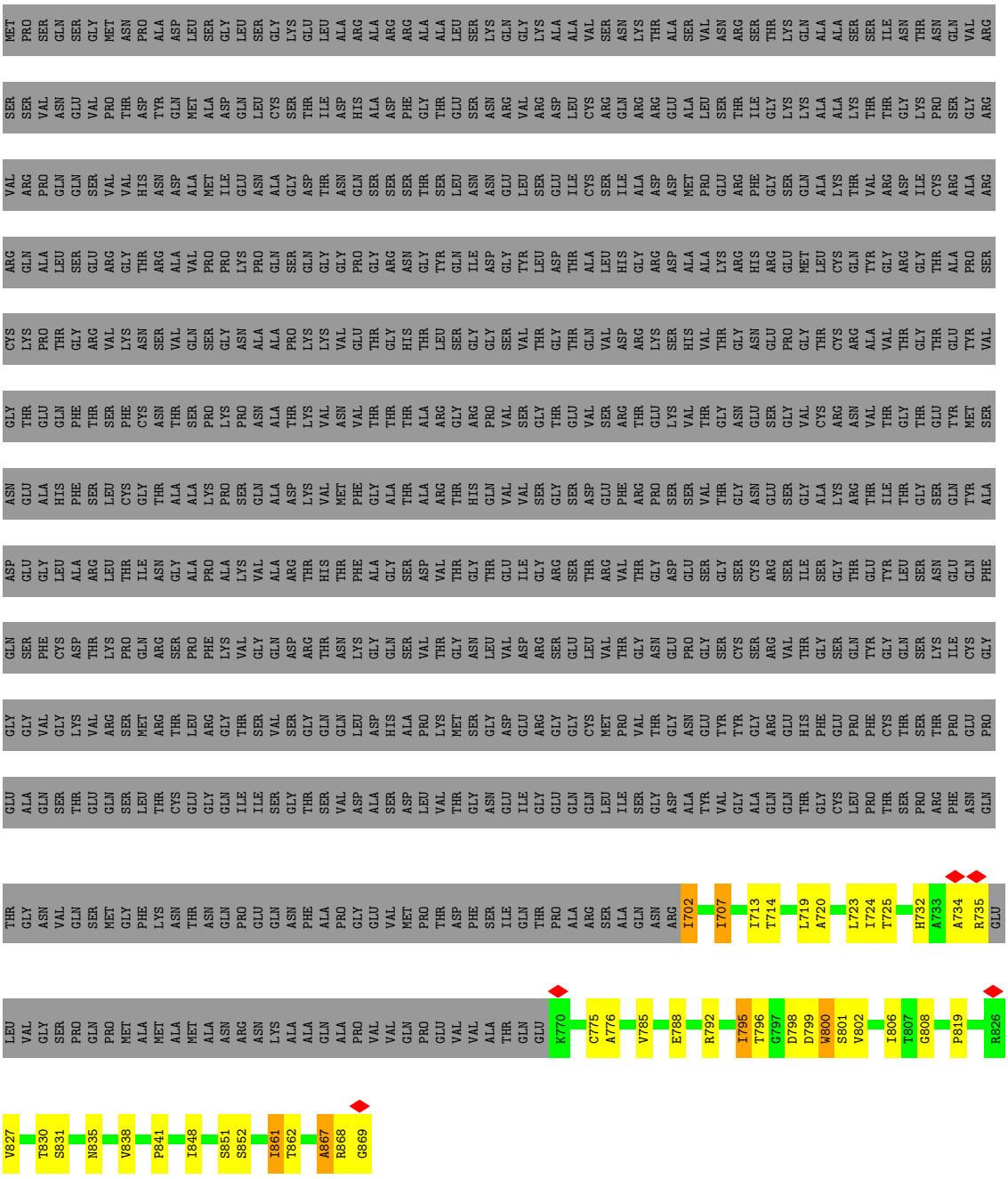
Chain Yg: 11% 85%





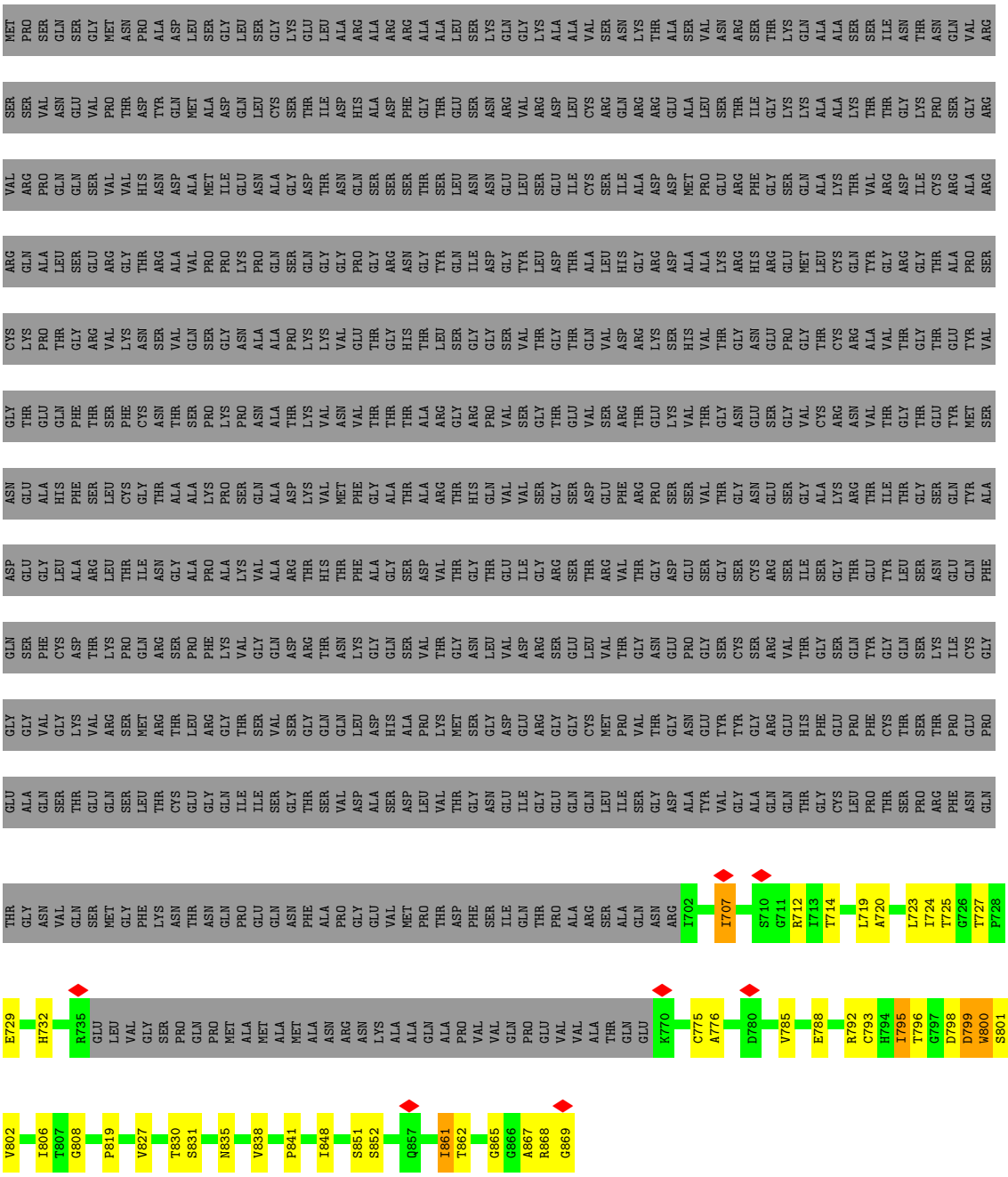
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Yh:



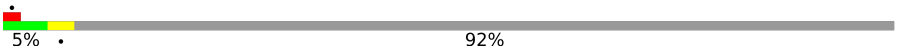
• Molecule 3: Carboxysome assembly protein CsoS2B

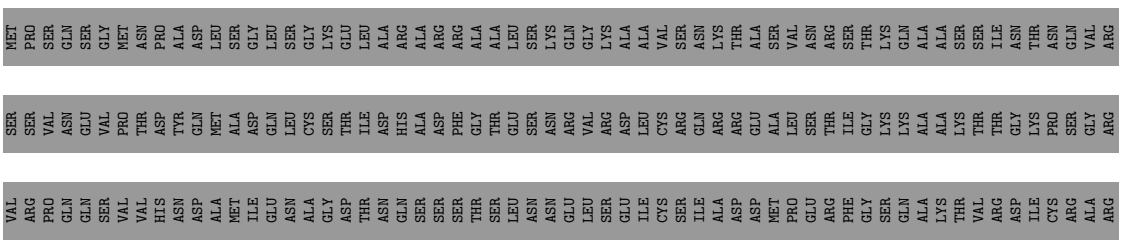
Chain Yi:

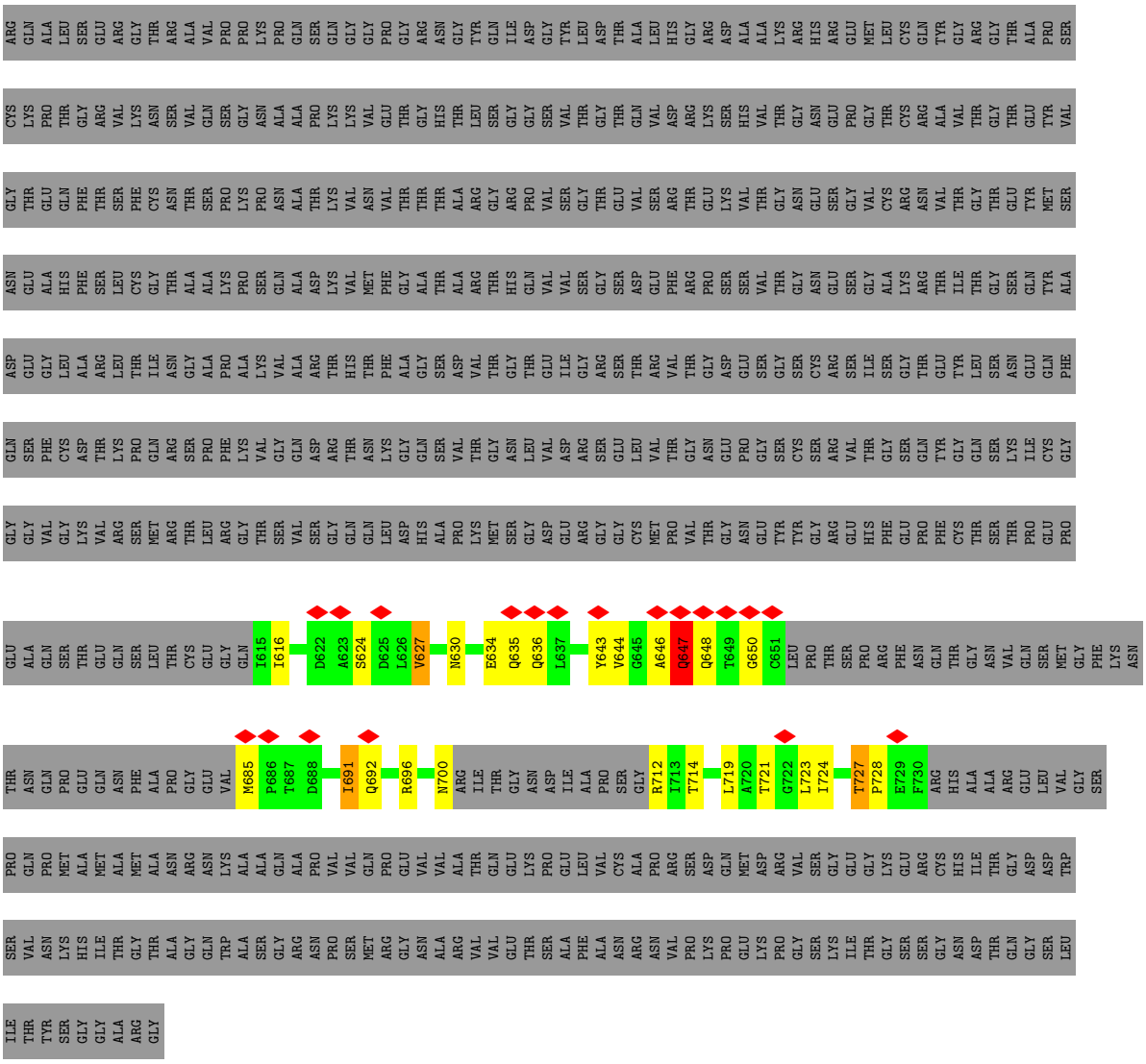


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain XV:

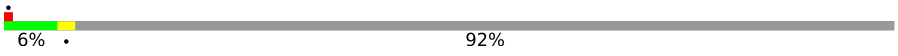


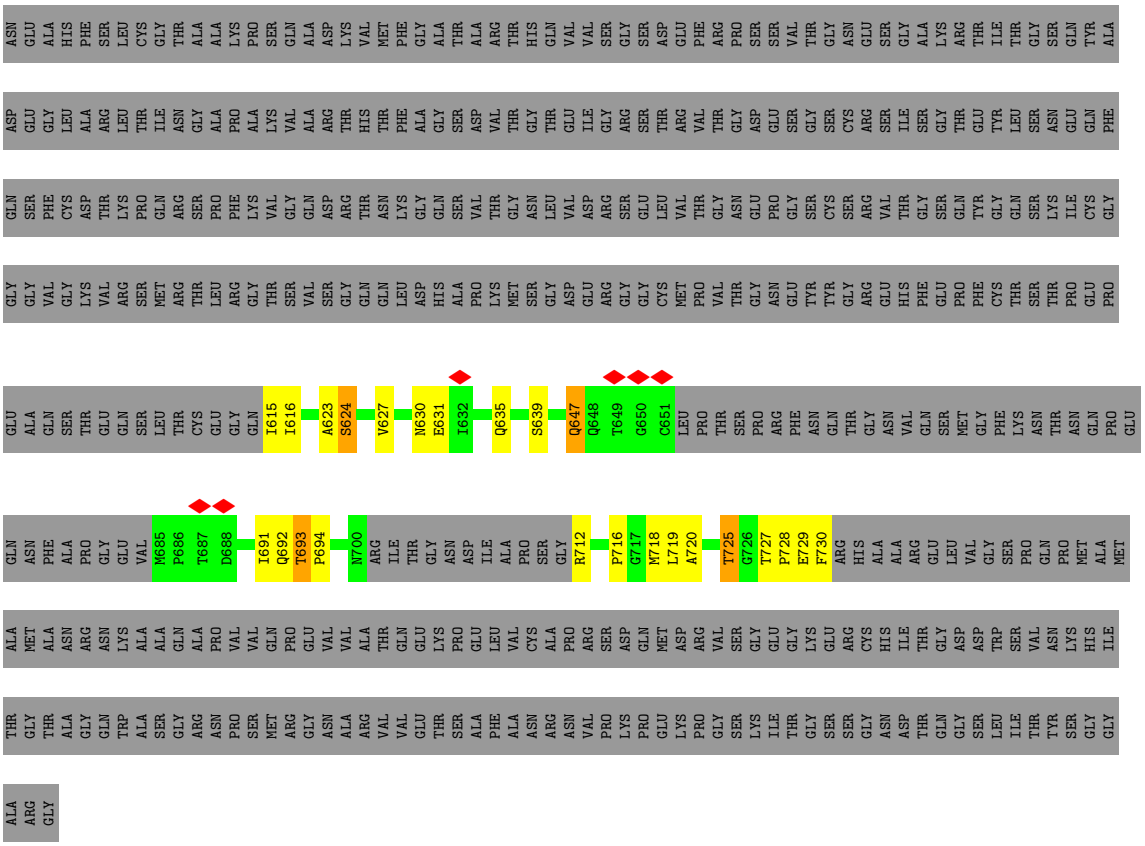




• Molecule 3: Carboxysome assembly protein CsoS2B

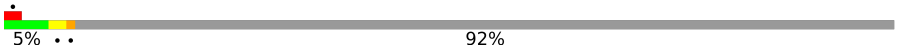
Chain XW:

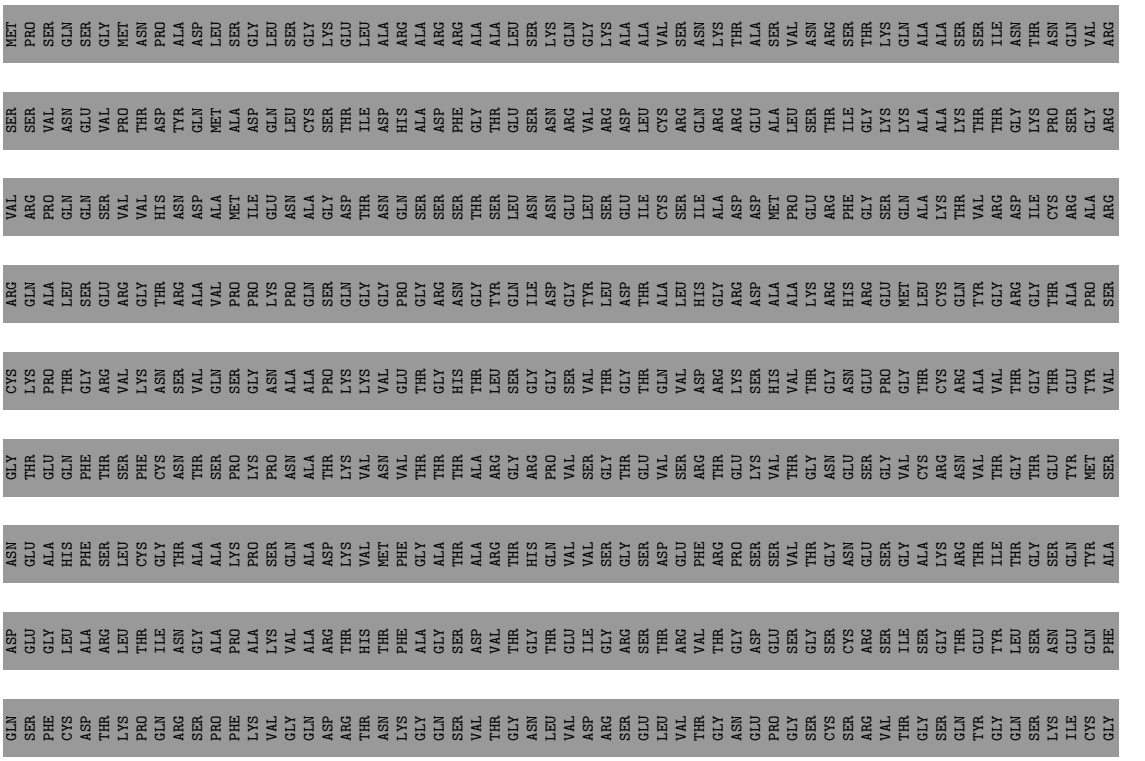


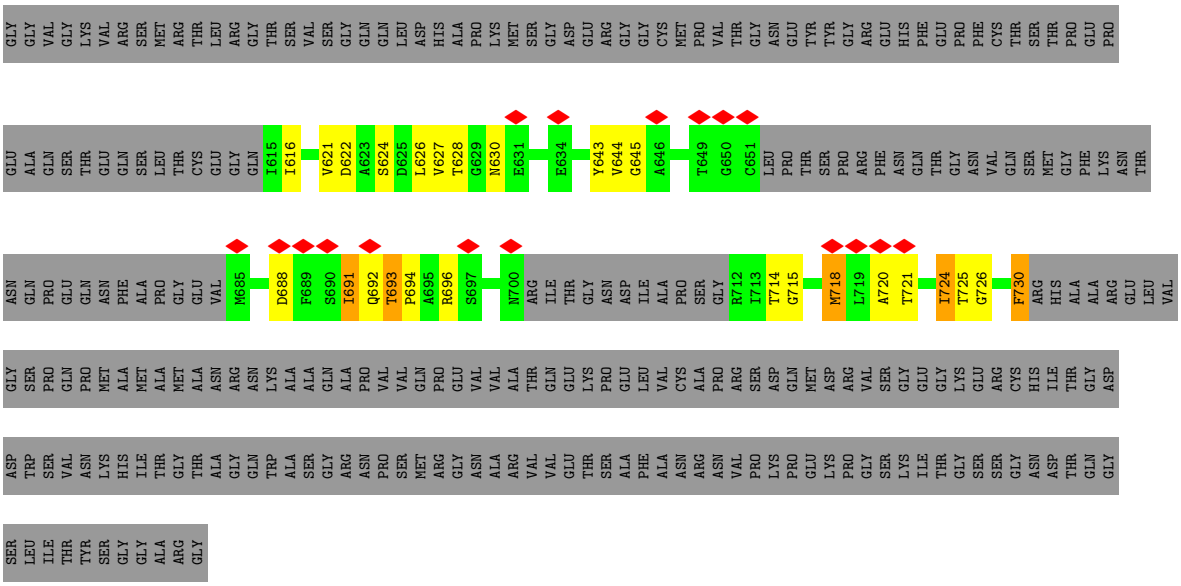


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain XZ:

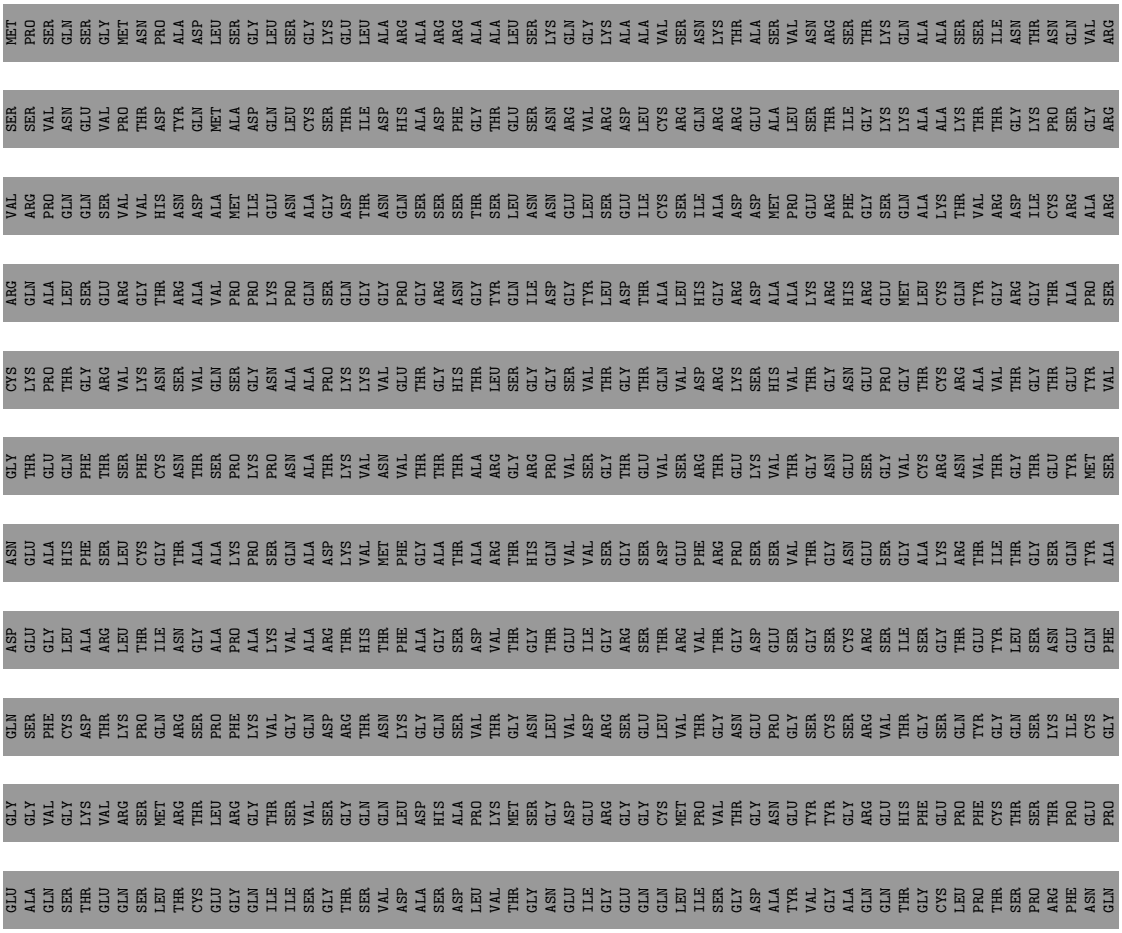


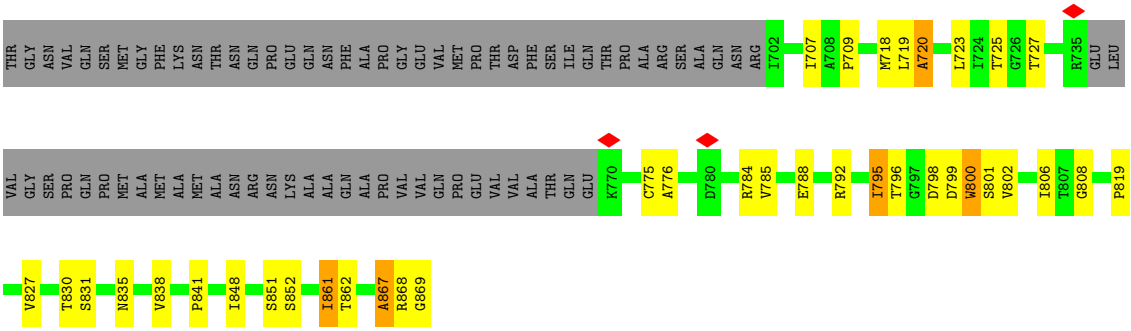




• Molecule 3: Carboxysome assembly protein CsoS2B

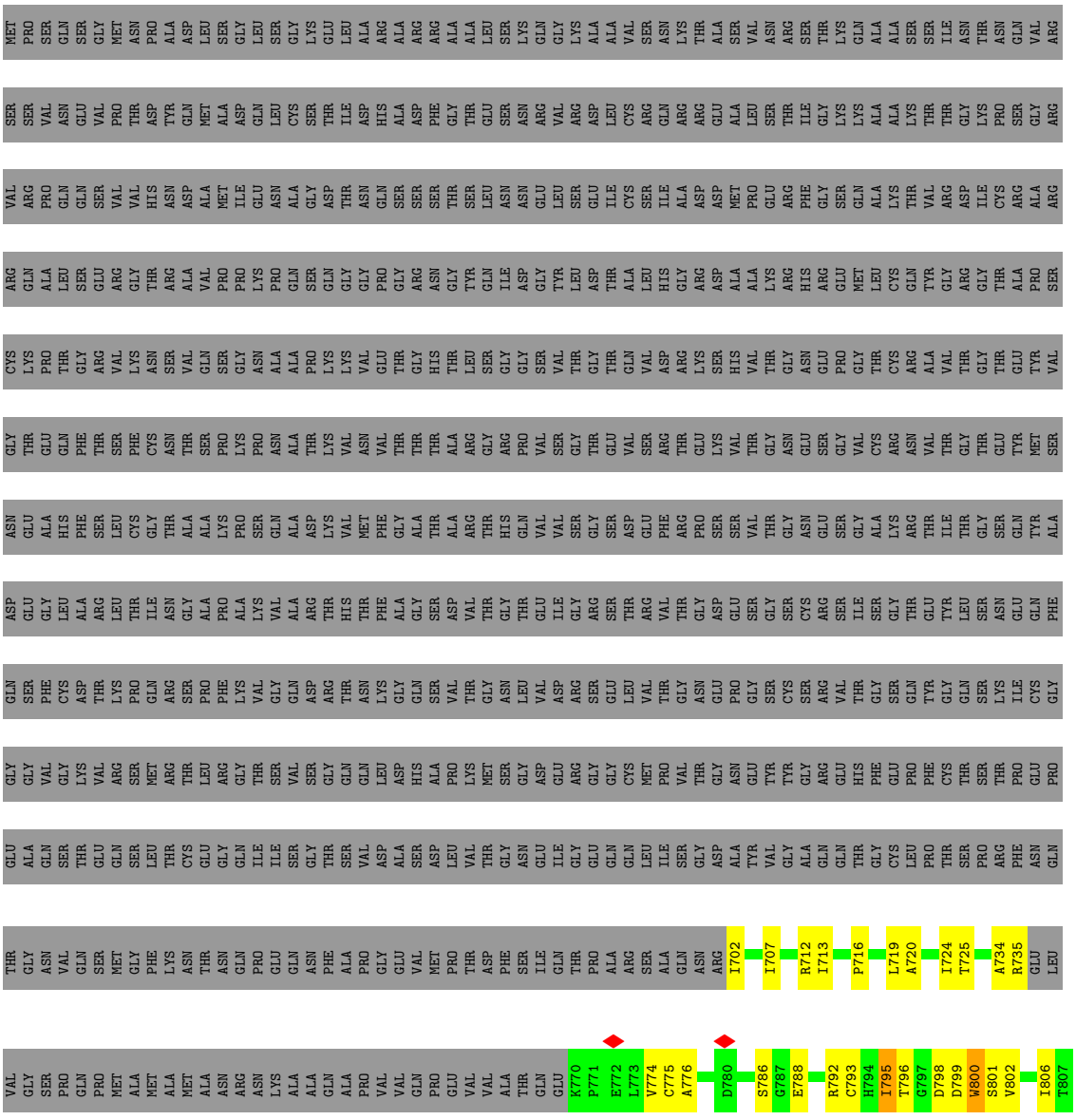
Chain YV: 11% 85%





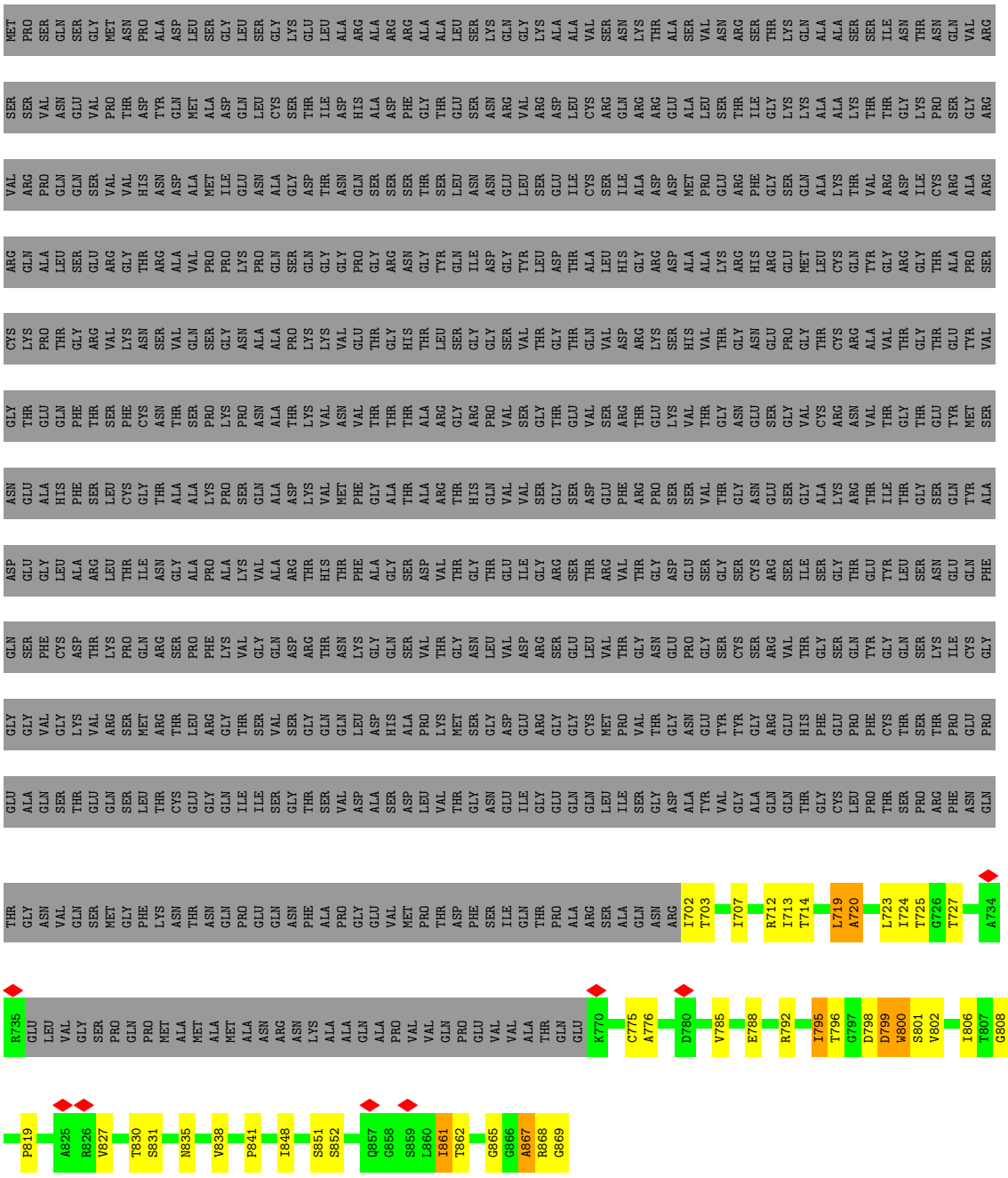
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YW: 10% 85%



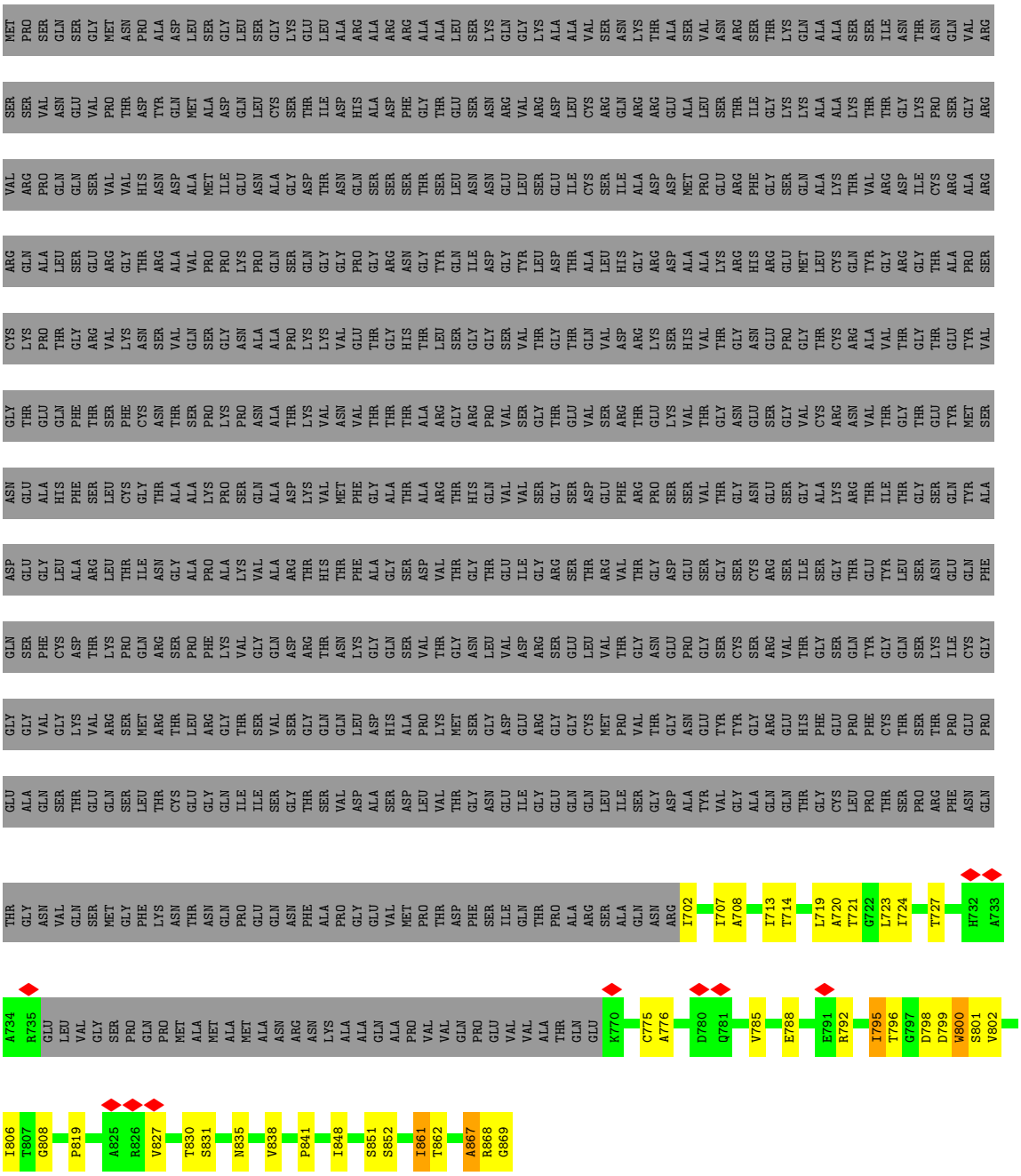
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain YX:



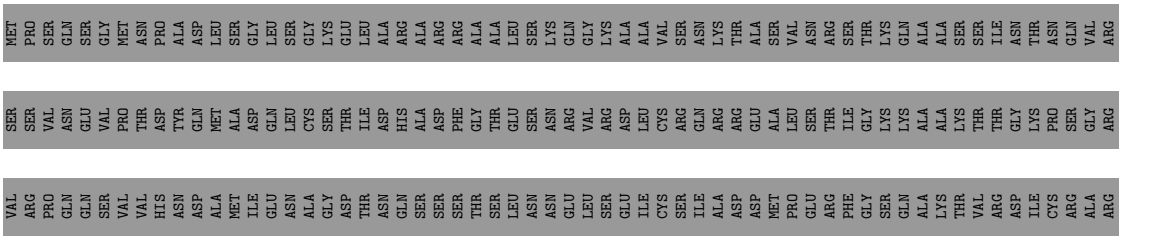
• Molecule 3: Carboxysome assembly protein CsoS2B

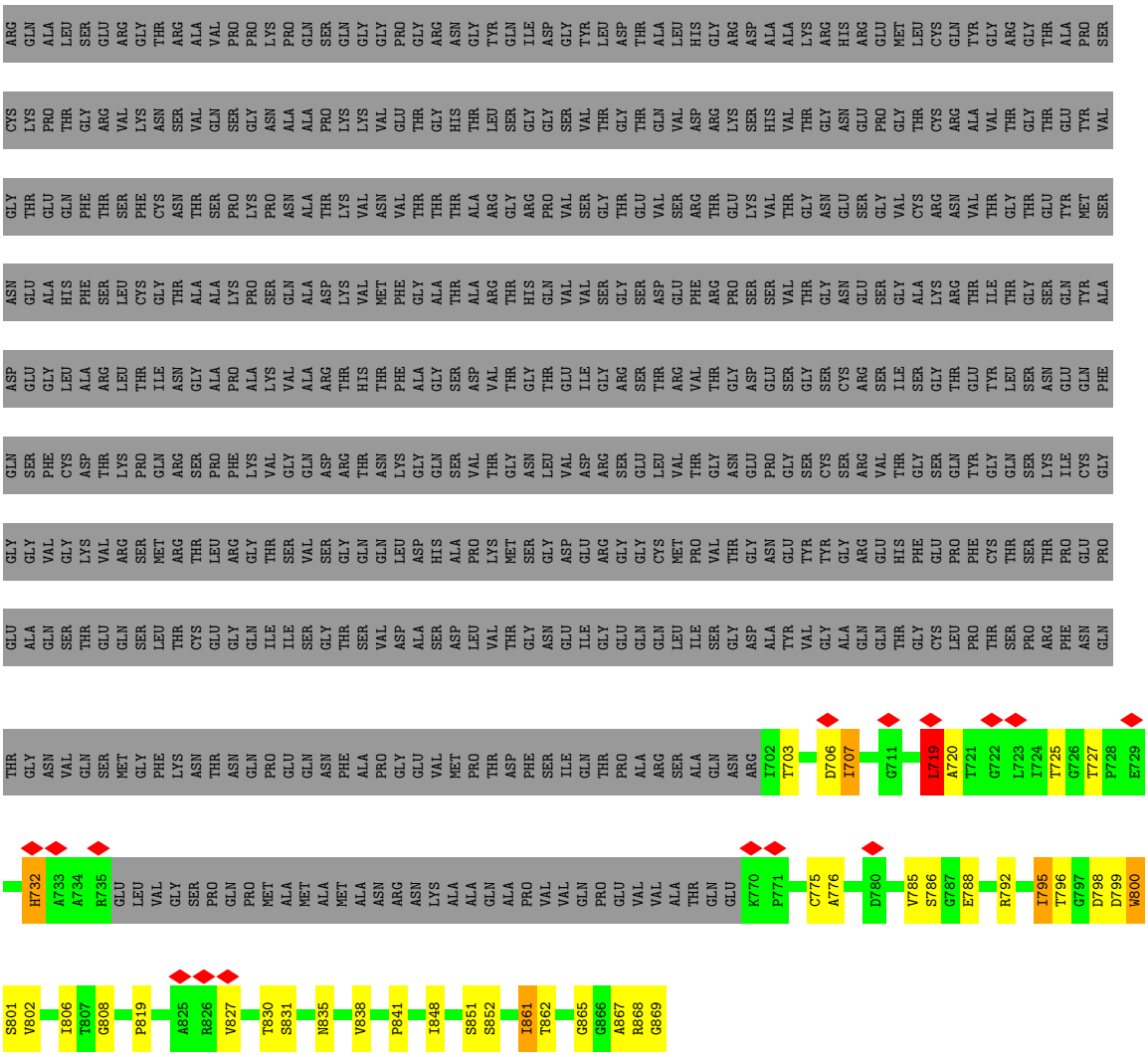
Chain YY:



• Molecule 3: Carboxysome assembly protein CsoS2B

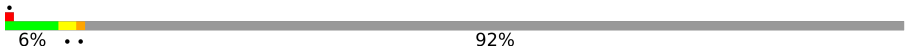
Chain YZ:

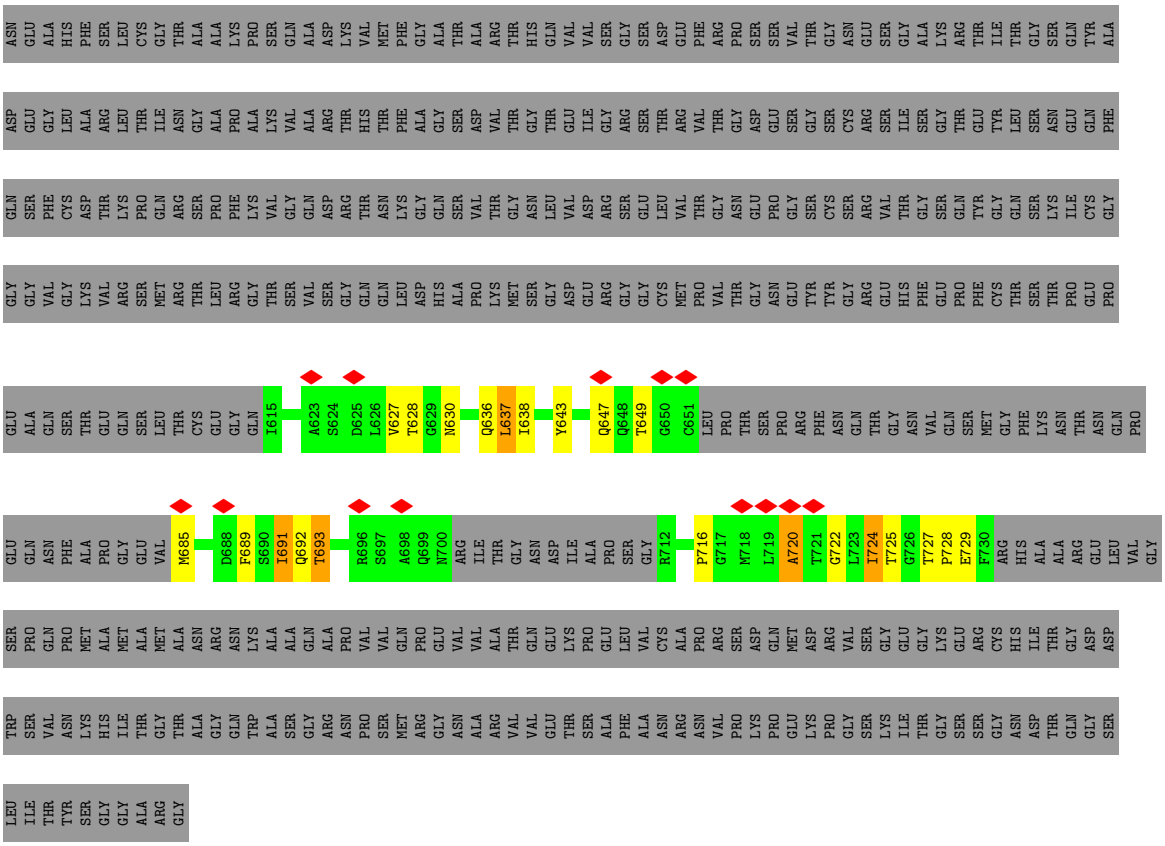




• Molecule 3: Carboxysome assembly protein CsoS2B

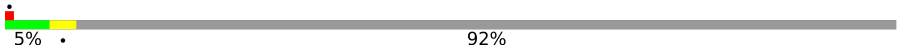
Chain Xd:

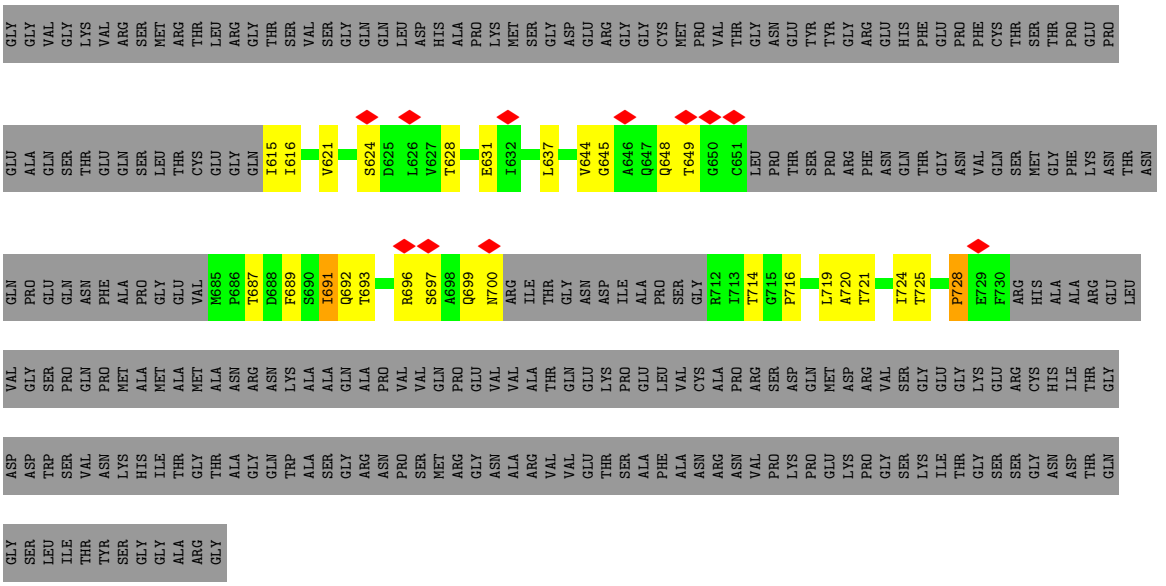




• Molecule 3: Carboxysome assembly protein CsoS2B

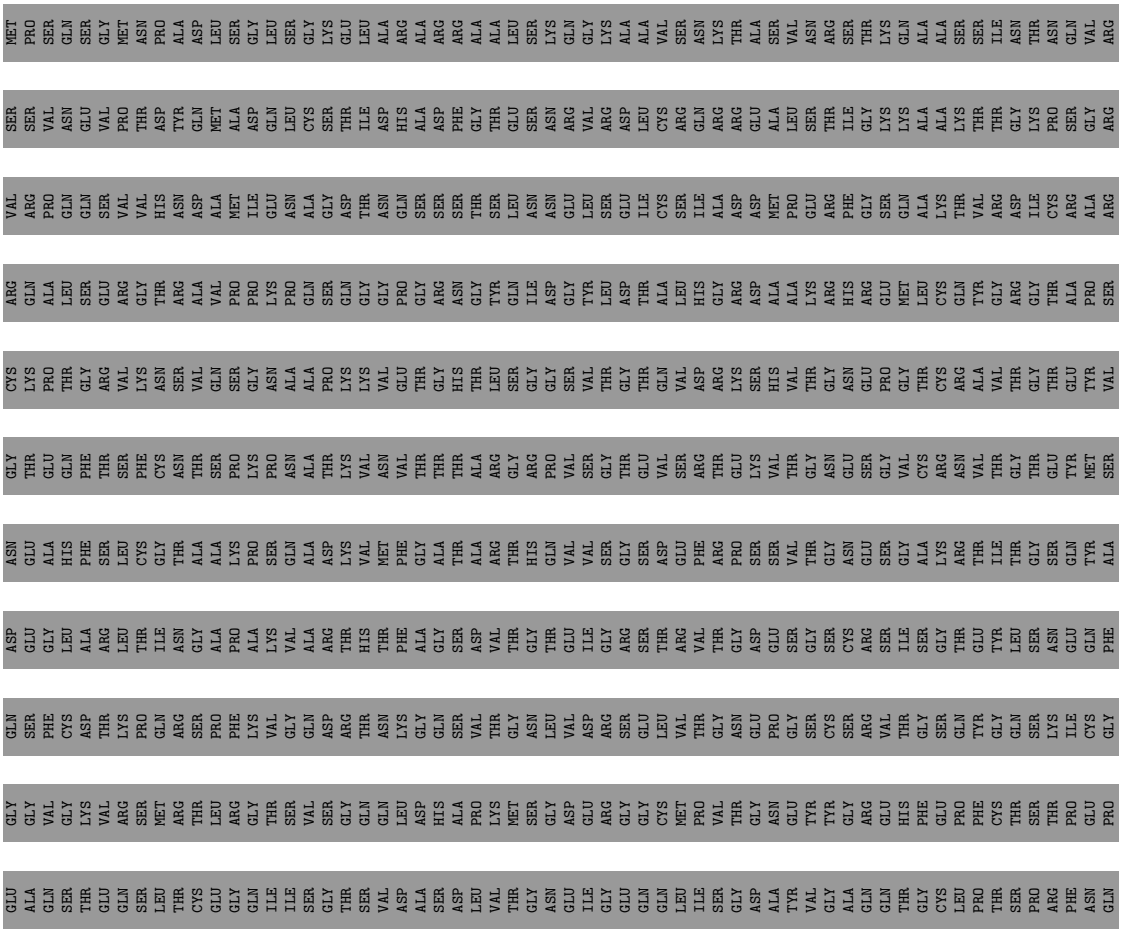
Chain XU:

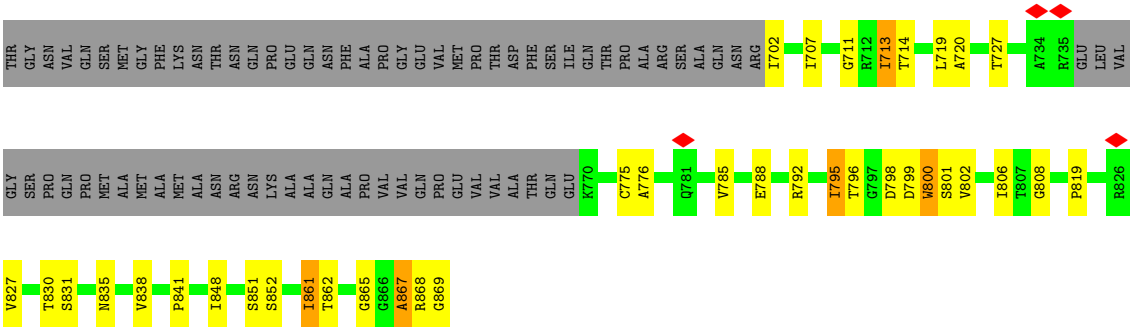




• Molecule 3: Carboxysome assembly protein CsoS2B

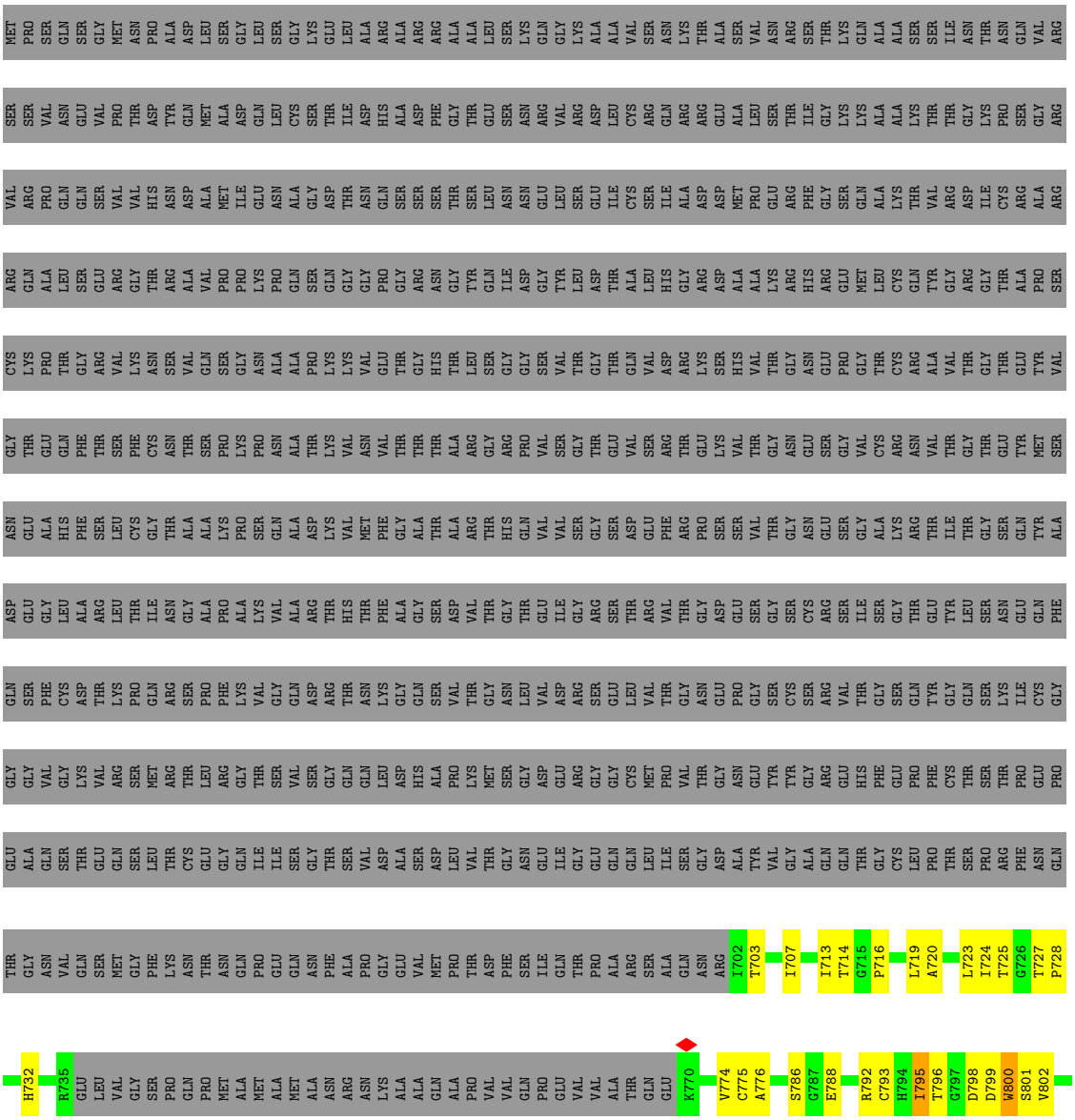
Chain Ya:

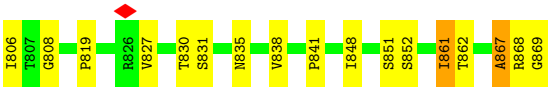




• Molecule 3: Carboxysome assembly protein CsoS2B

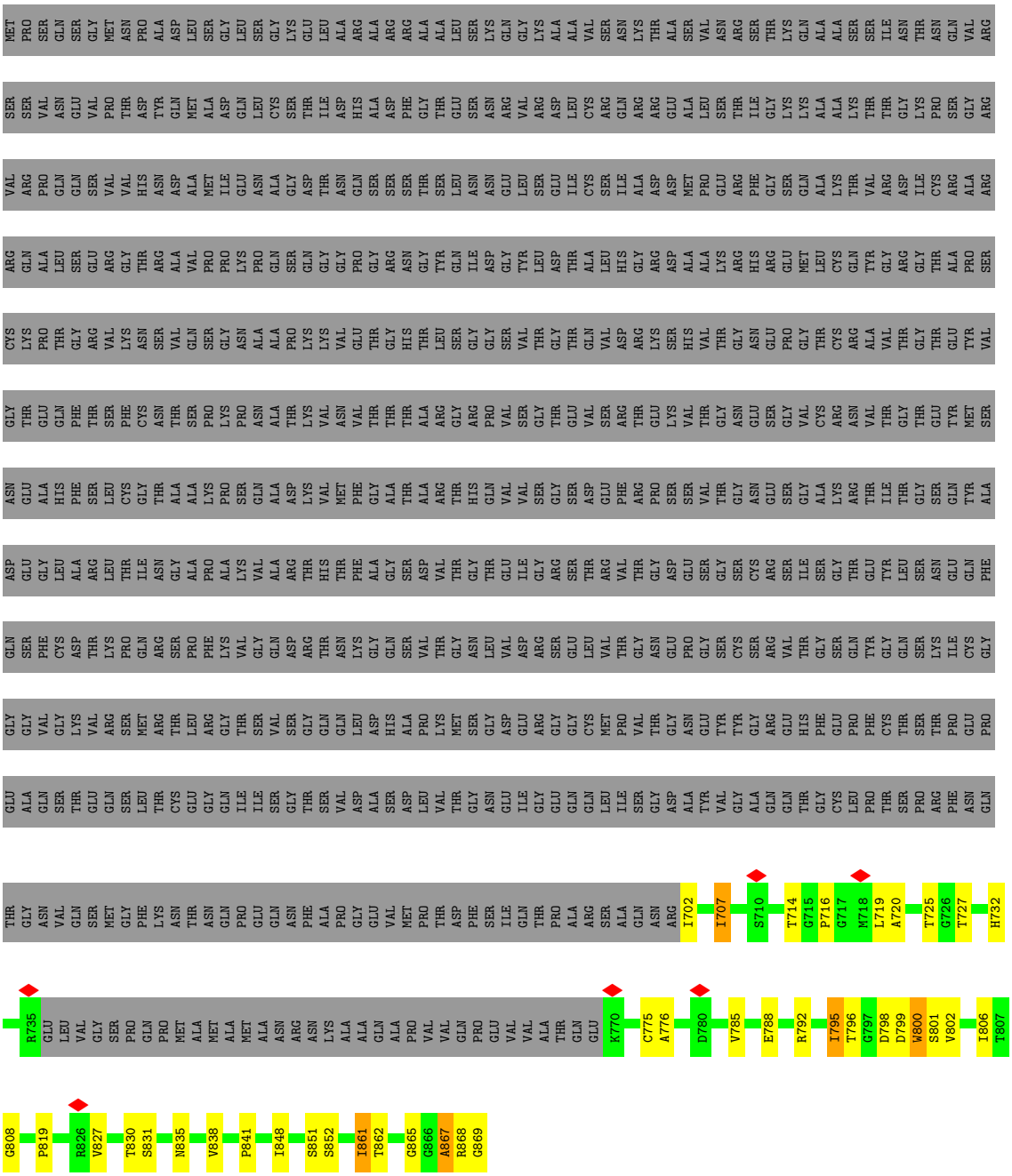
Chain Yb: 10% 5% 85%





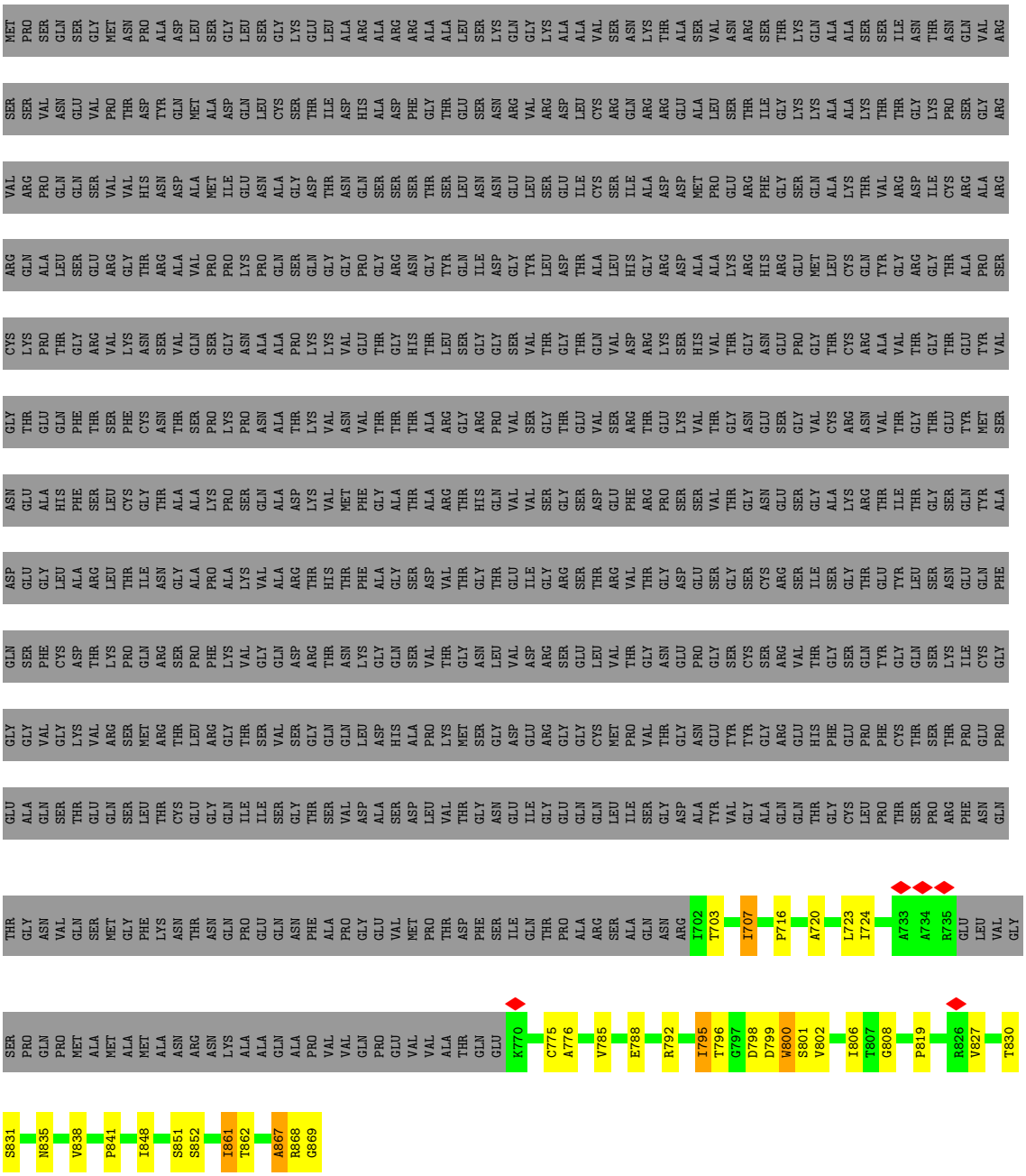
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Yc:



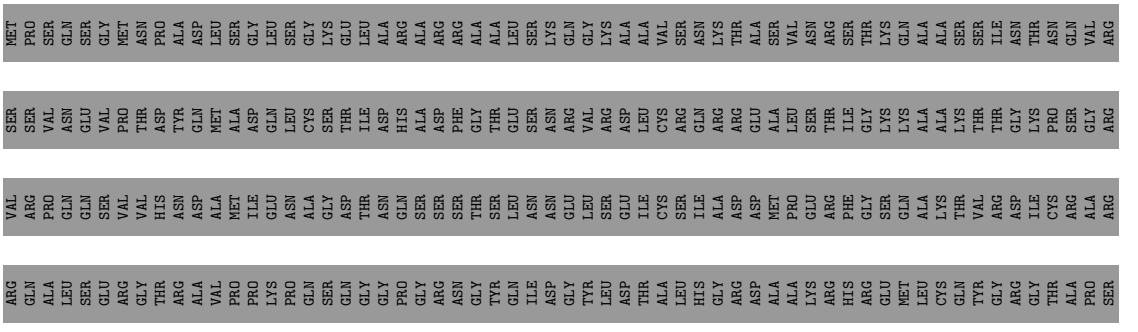
• Molecule 3: Carboxysome assembly protein CsoS2B

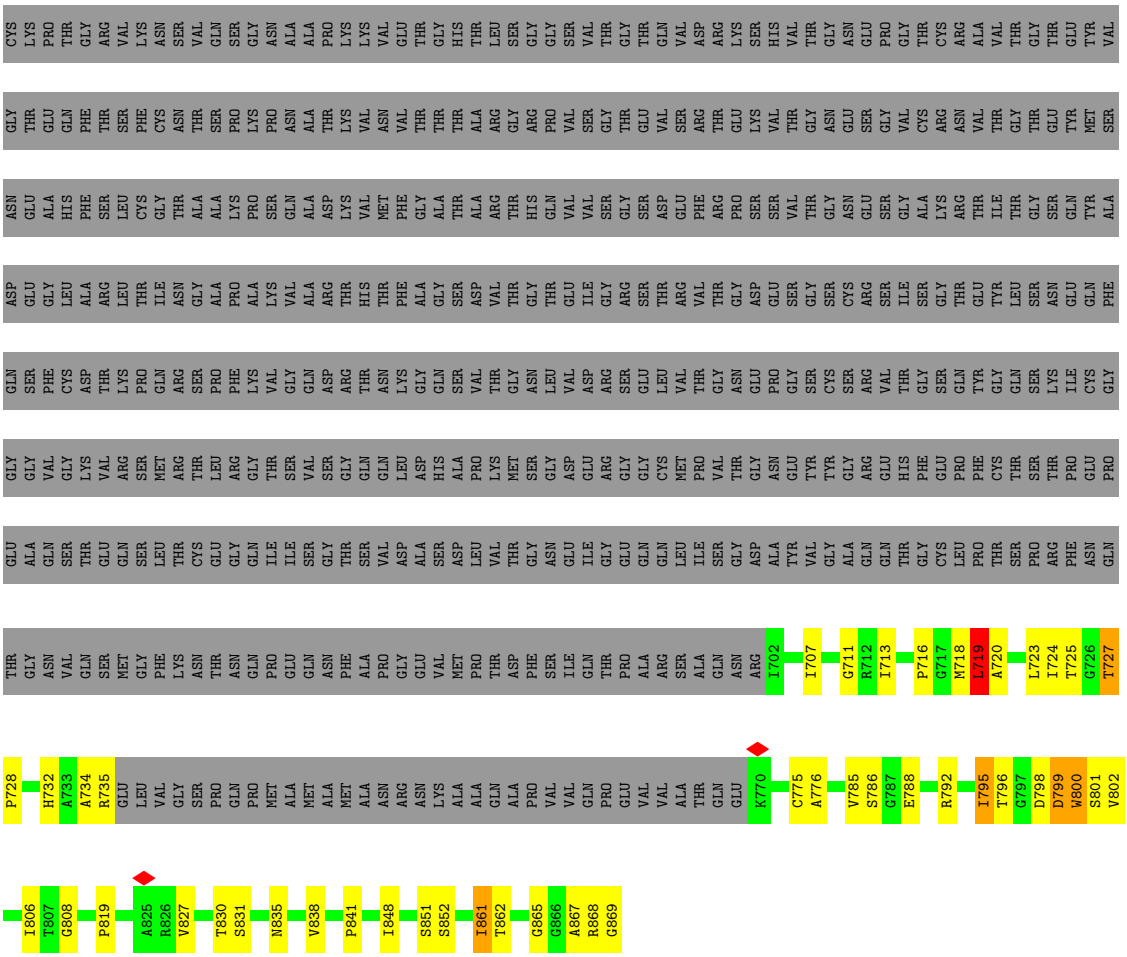
Chain Yd:



• Molecule 3: Carboxysome assembly protein CsoS2B

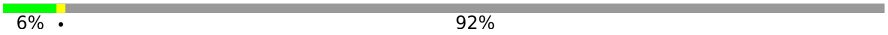
Chain YU:

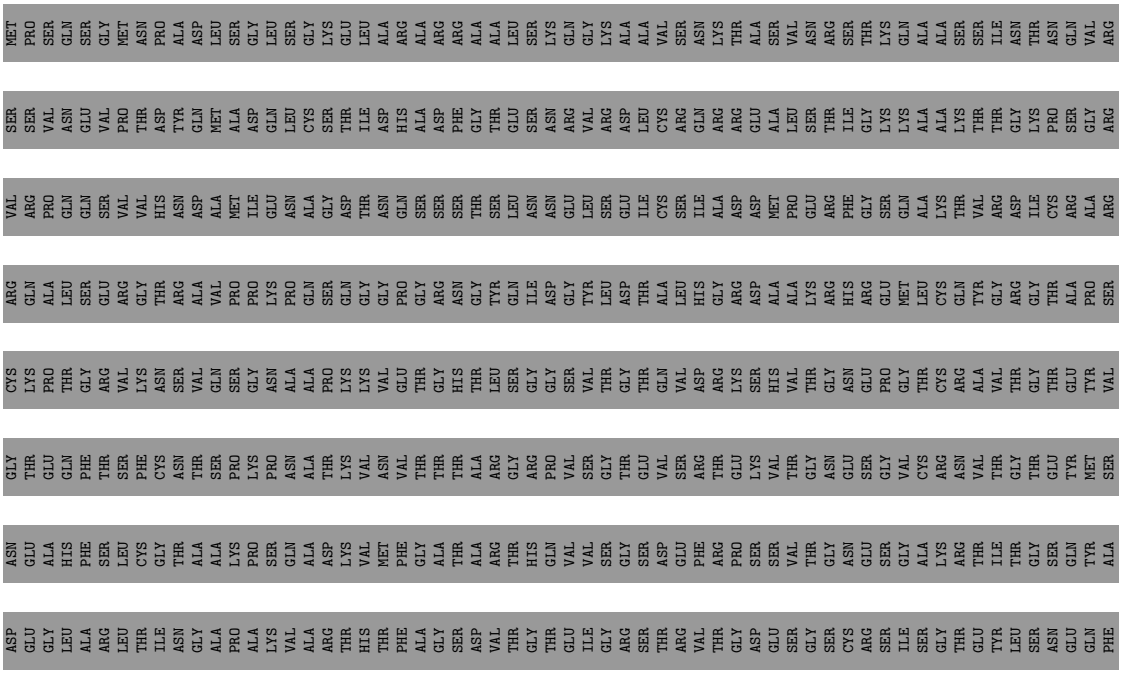


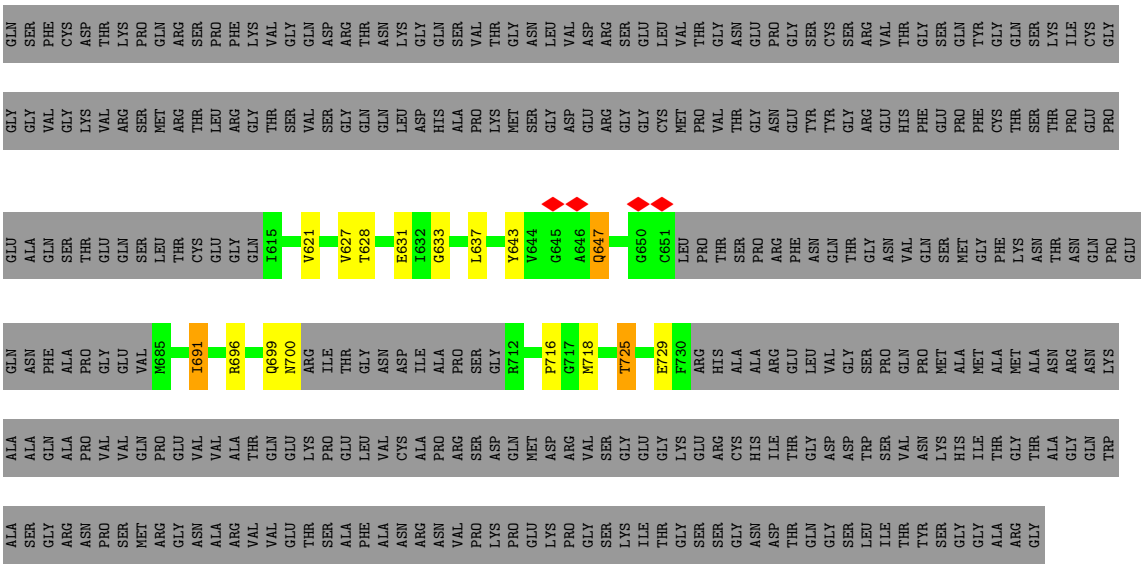


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xt:

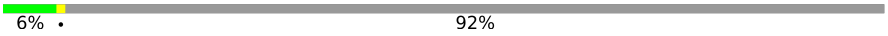


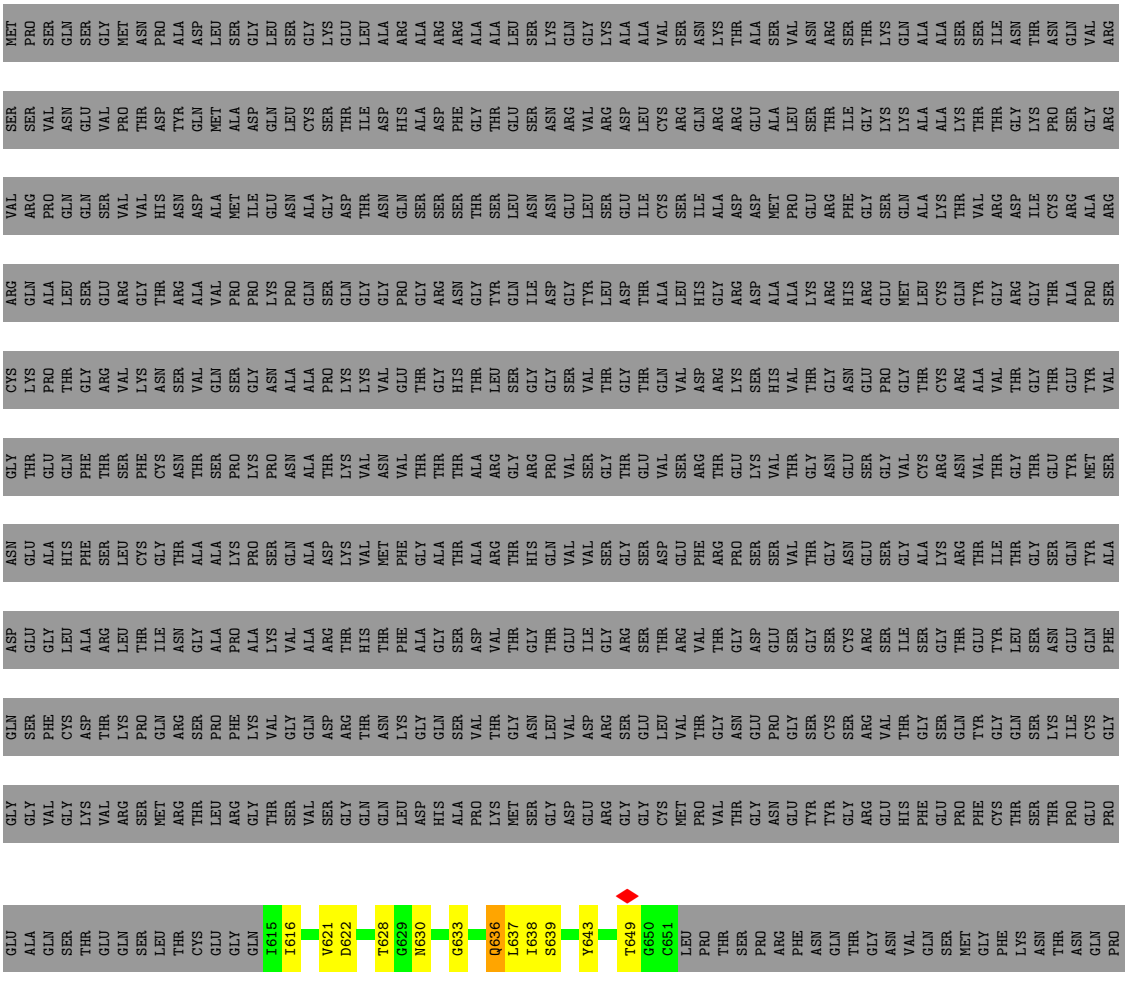


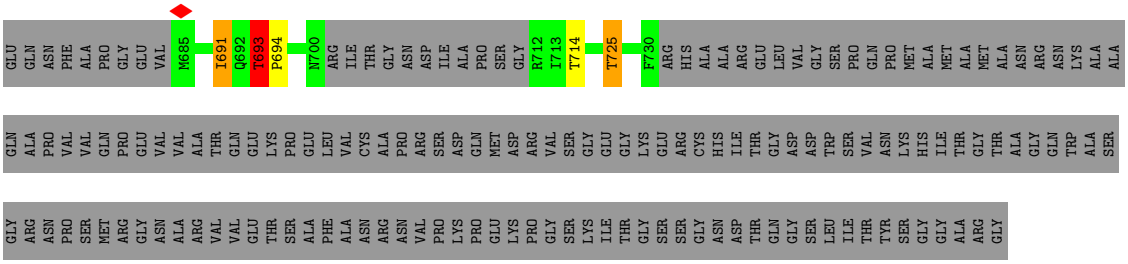


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xu:

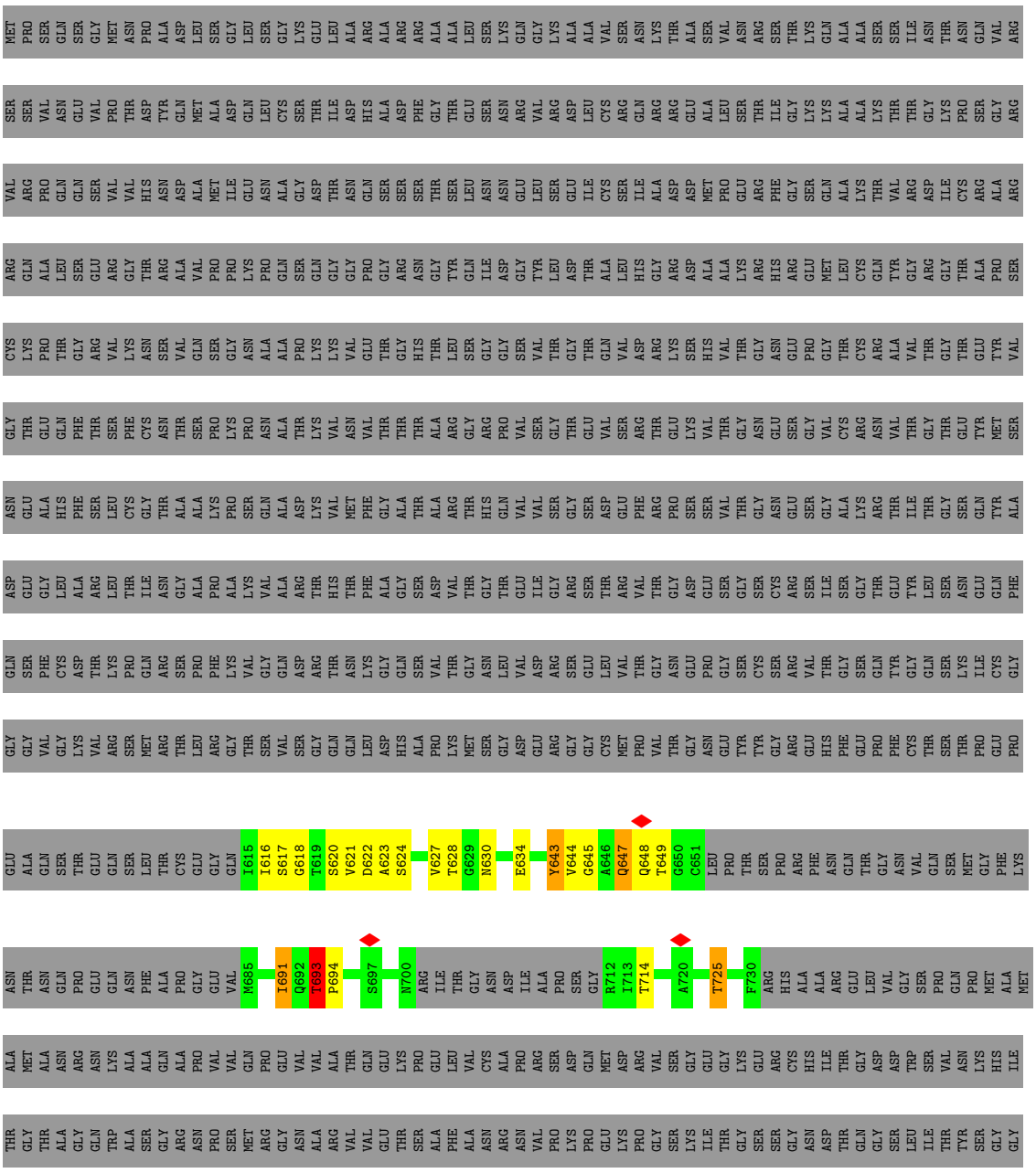






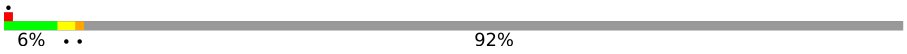
• Molecule 3: Carboxysome assembly protein CsoS2B

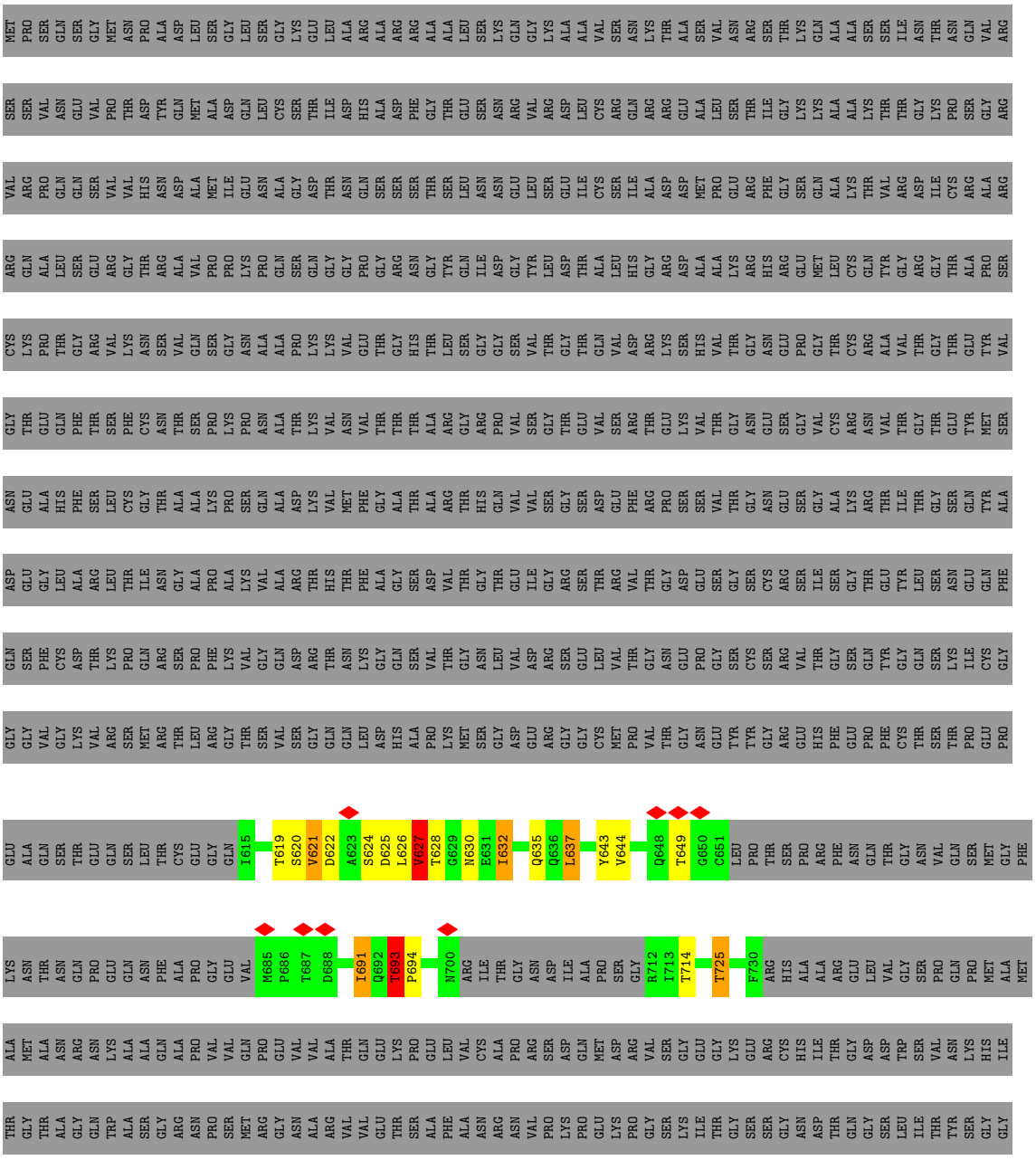
Chain Xv:



• Molecule 3: Carboxysome assembly protein CsoS2B

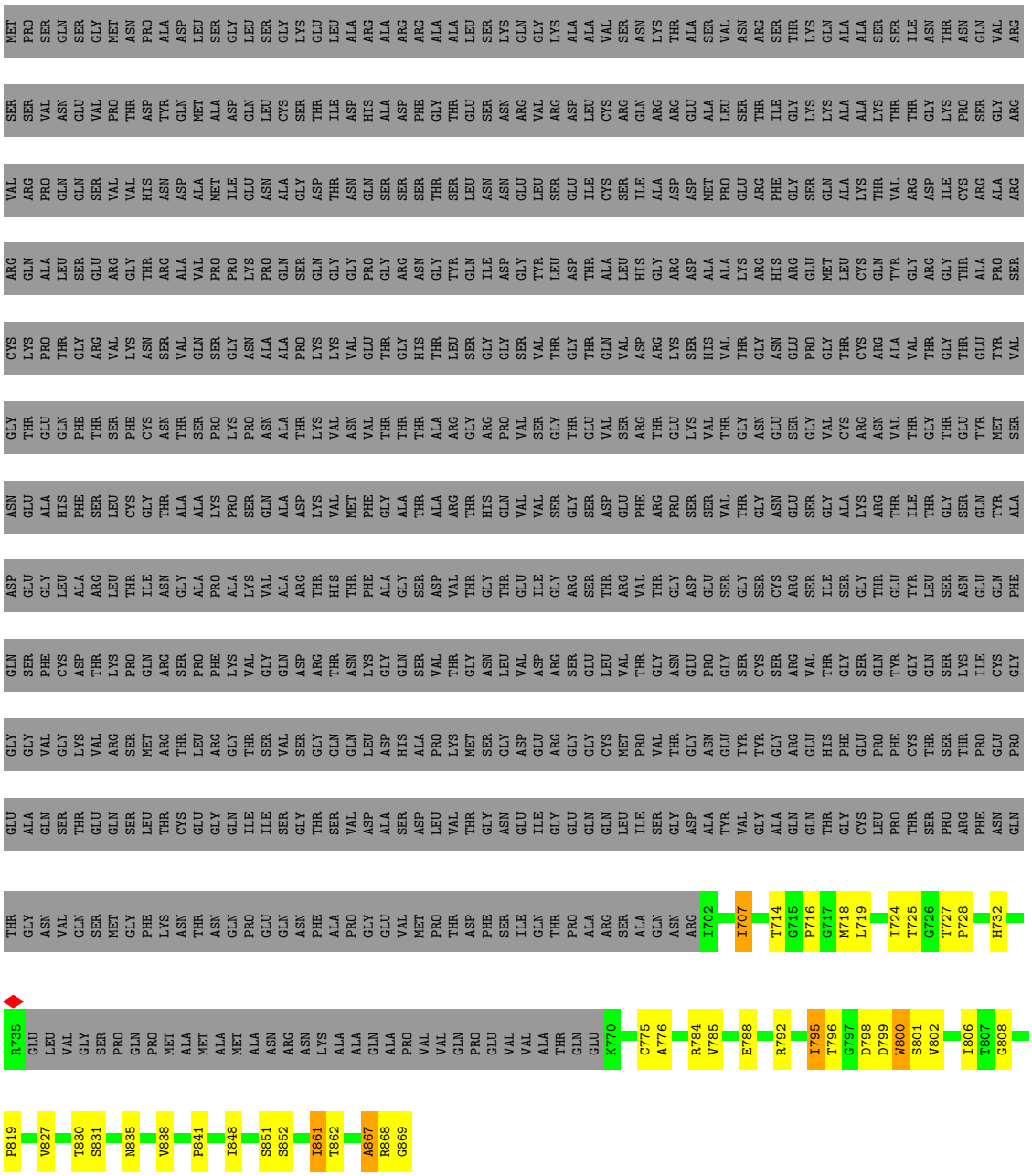
Chain Xx:





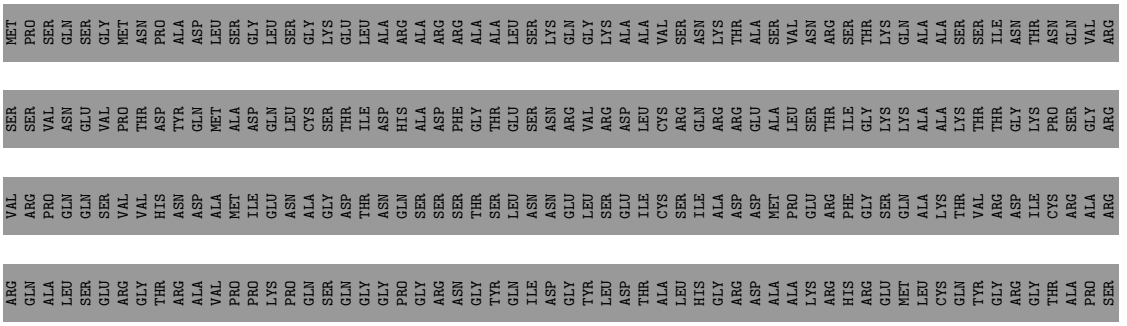
• Molecule 3: Carboxysome assembly protein CsoS2B

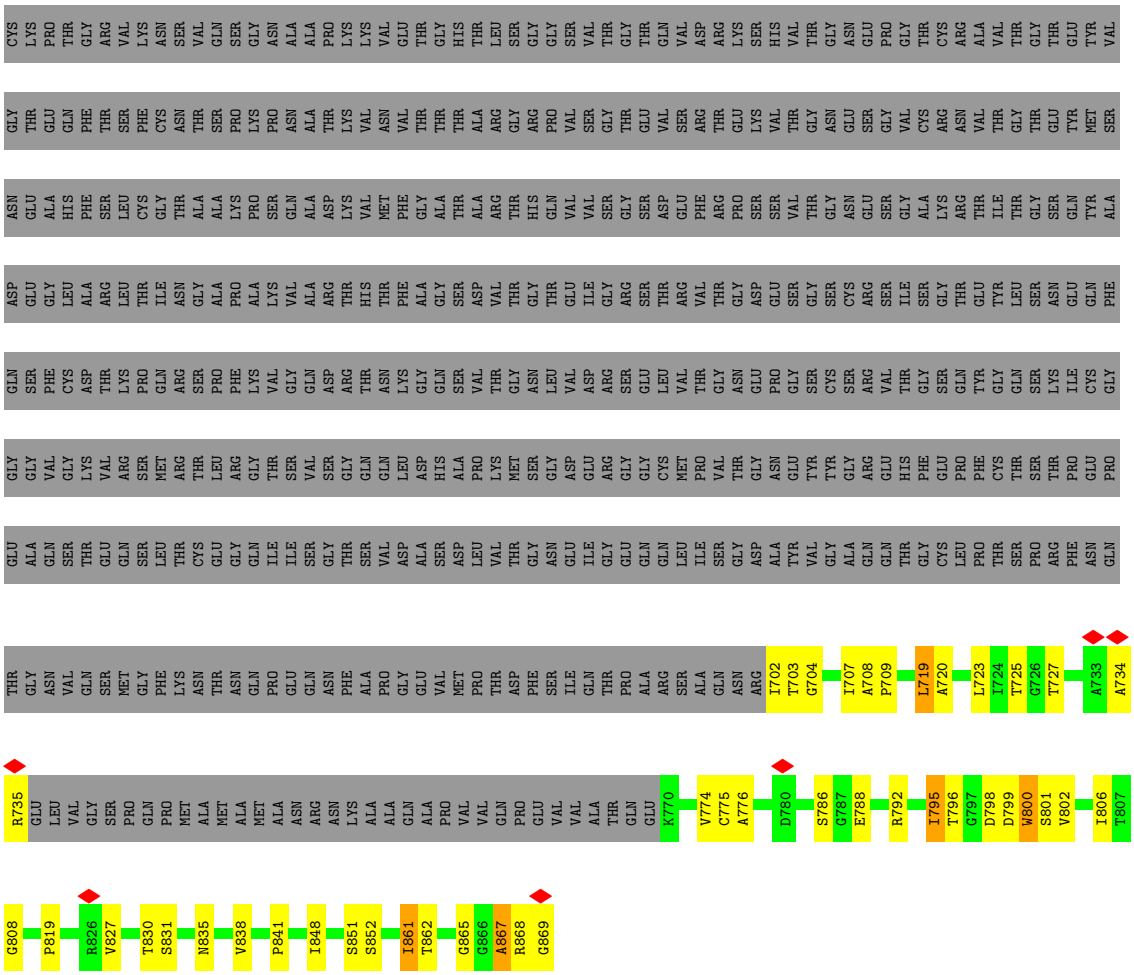
Chain Yt:



• Molecule 3: Carboxysome assembly protein CsoS2B

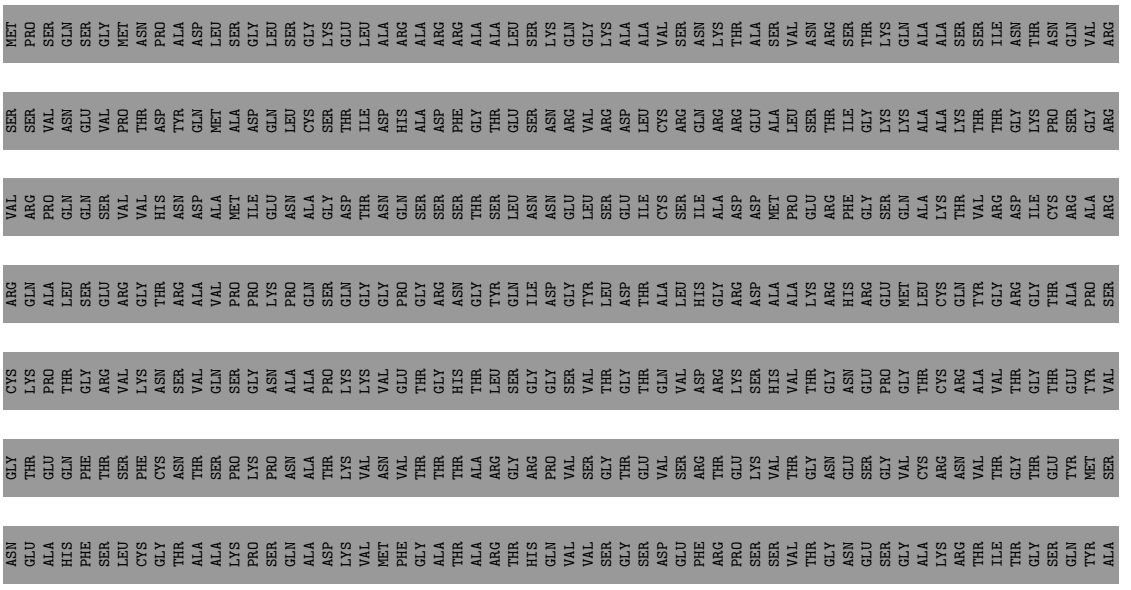
Chain Yu:

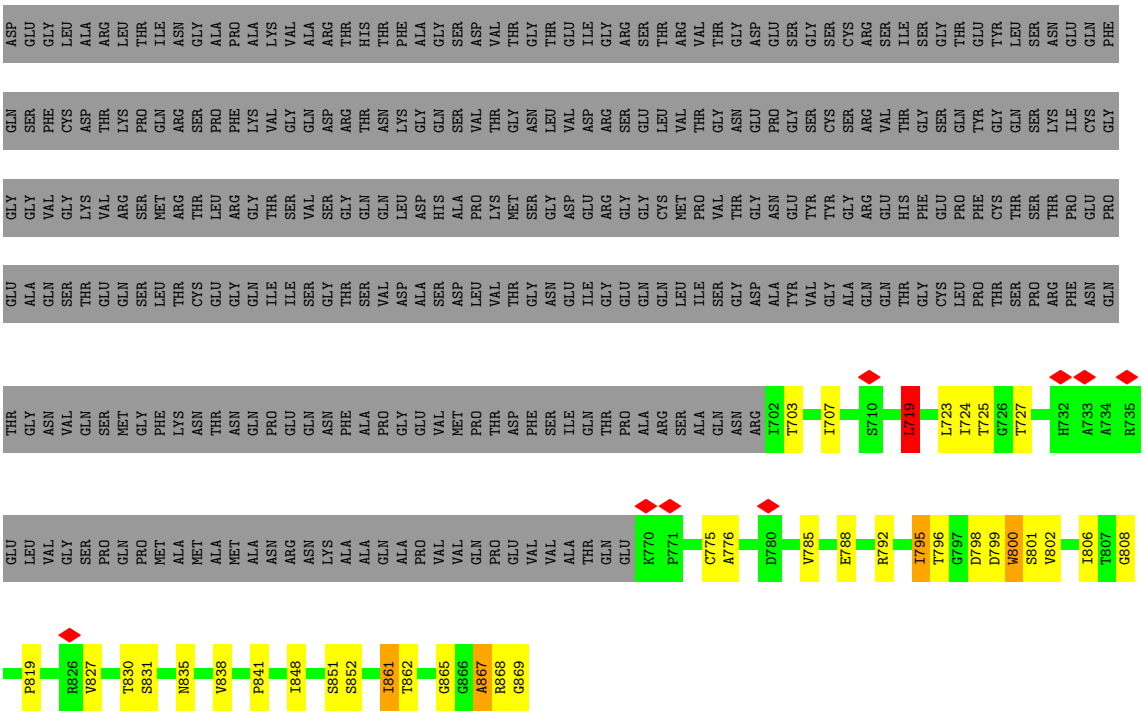




• Molecule 3: Carboxysome assembly protein CsoS2B

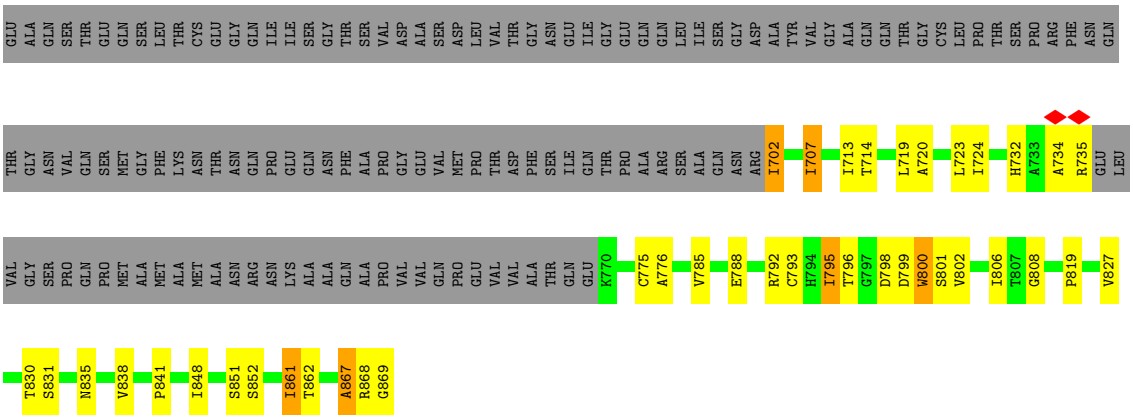
Chain Yv: 11% 85%





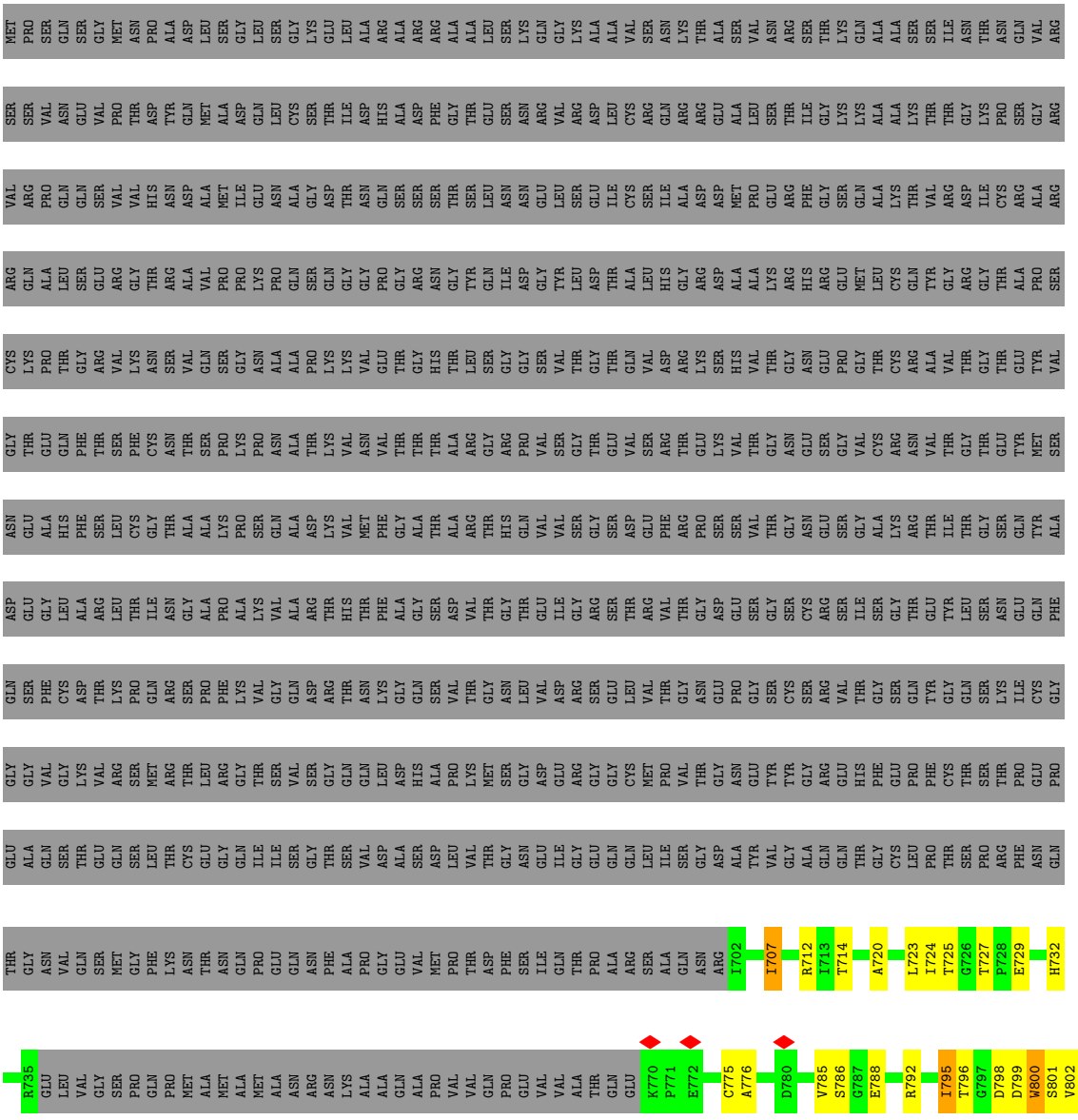
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Yw:



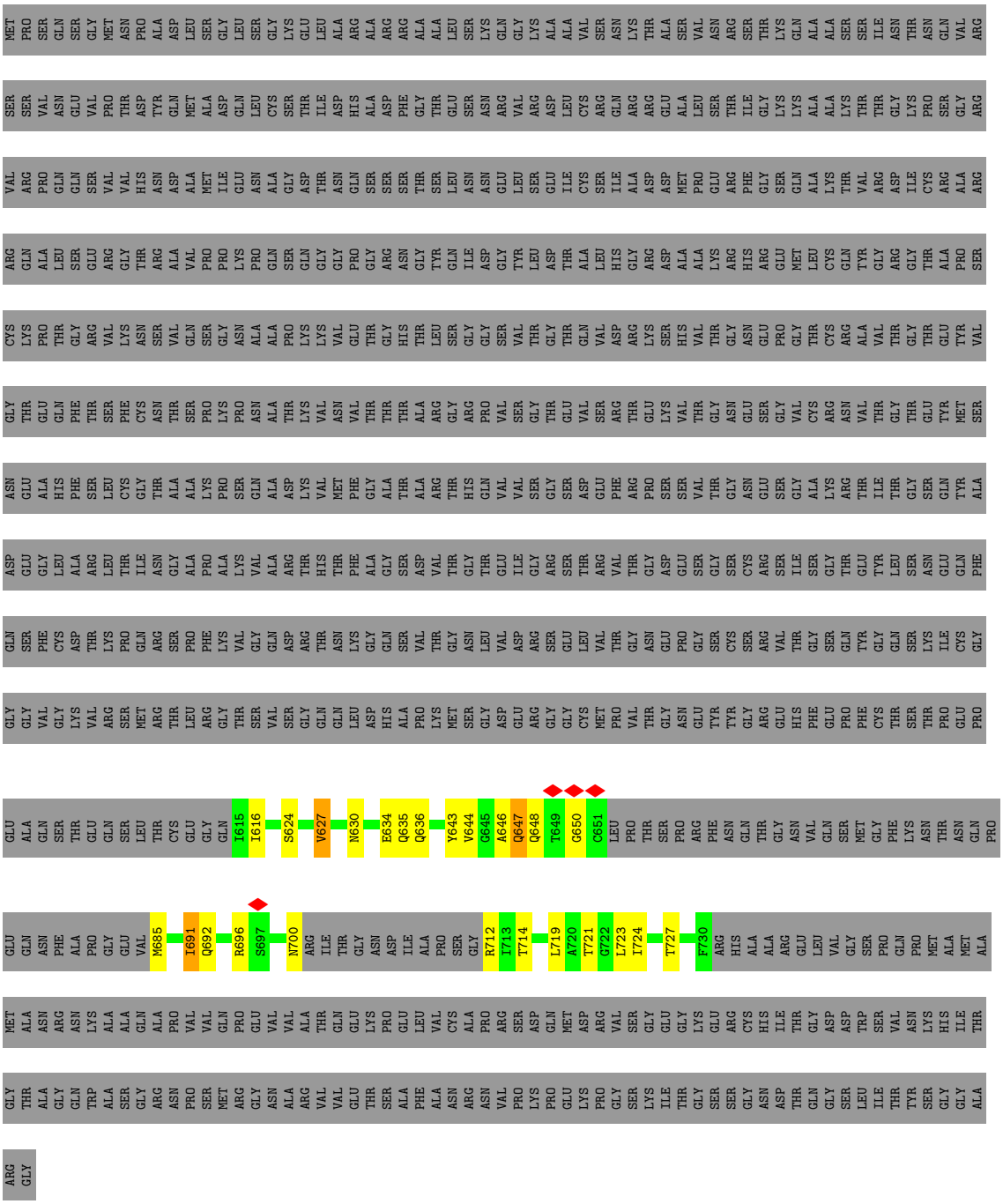
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Yx:



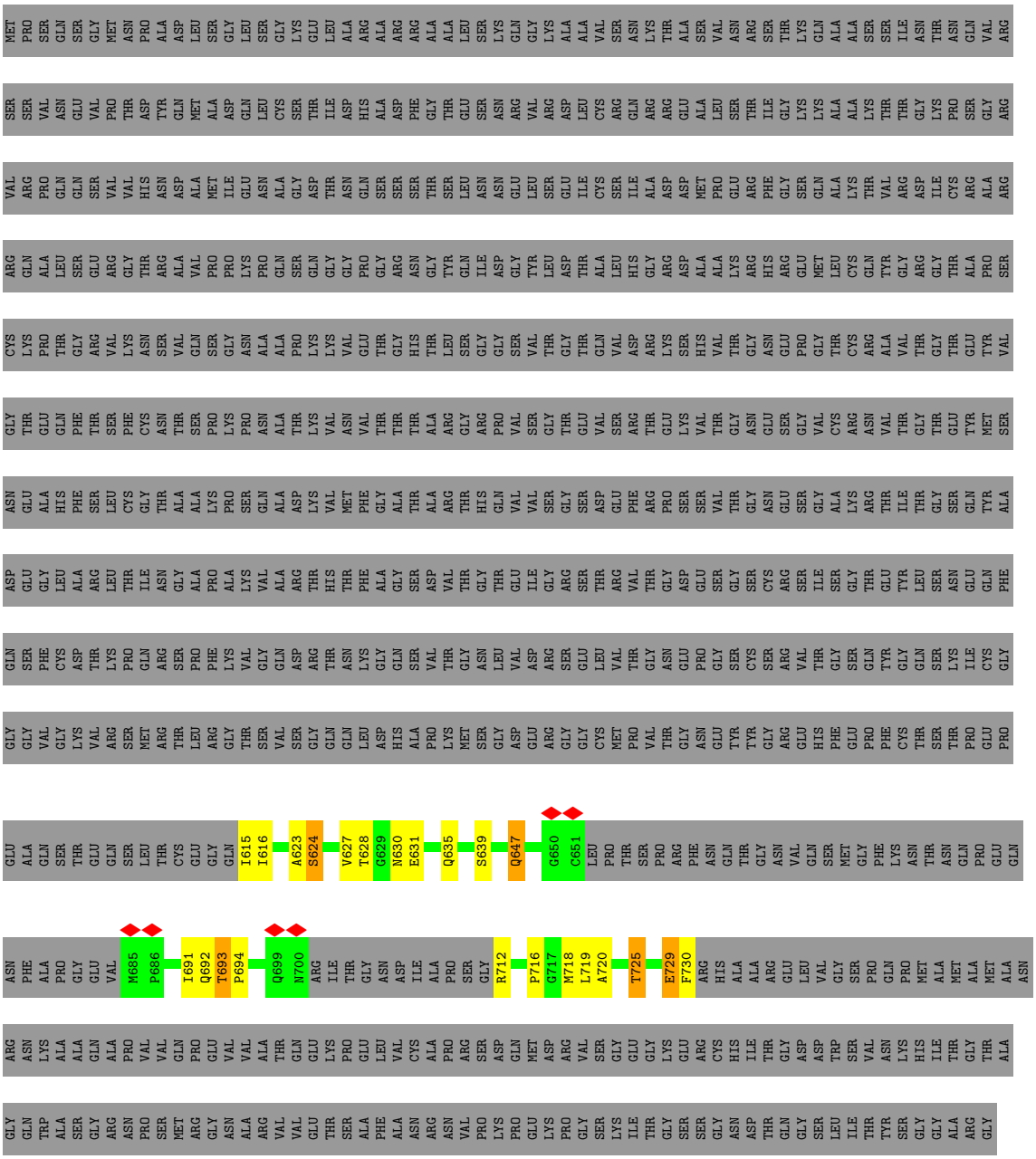
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xk: 5% 92%



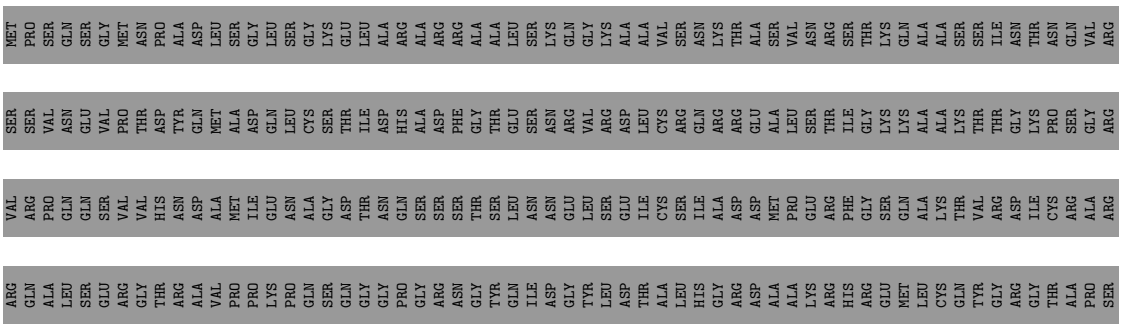
• Molecule 3: Carboxysome assembly protein CsoS2B

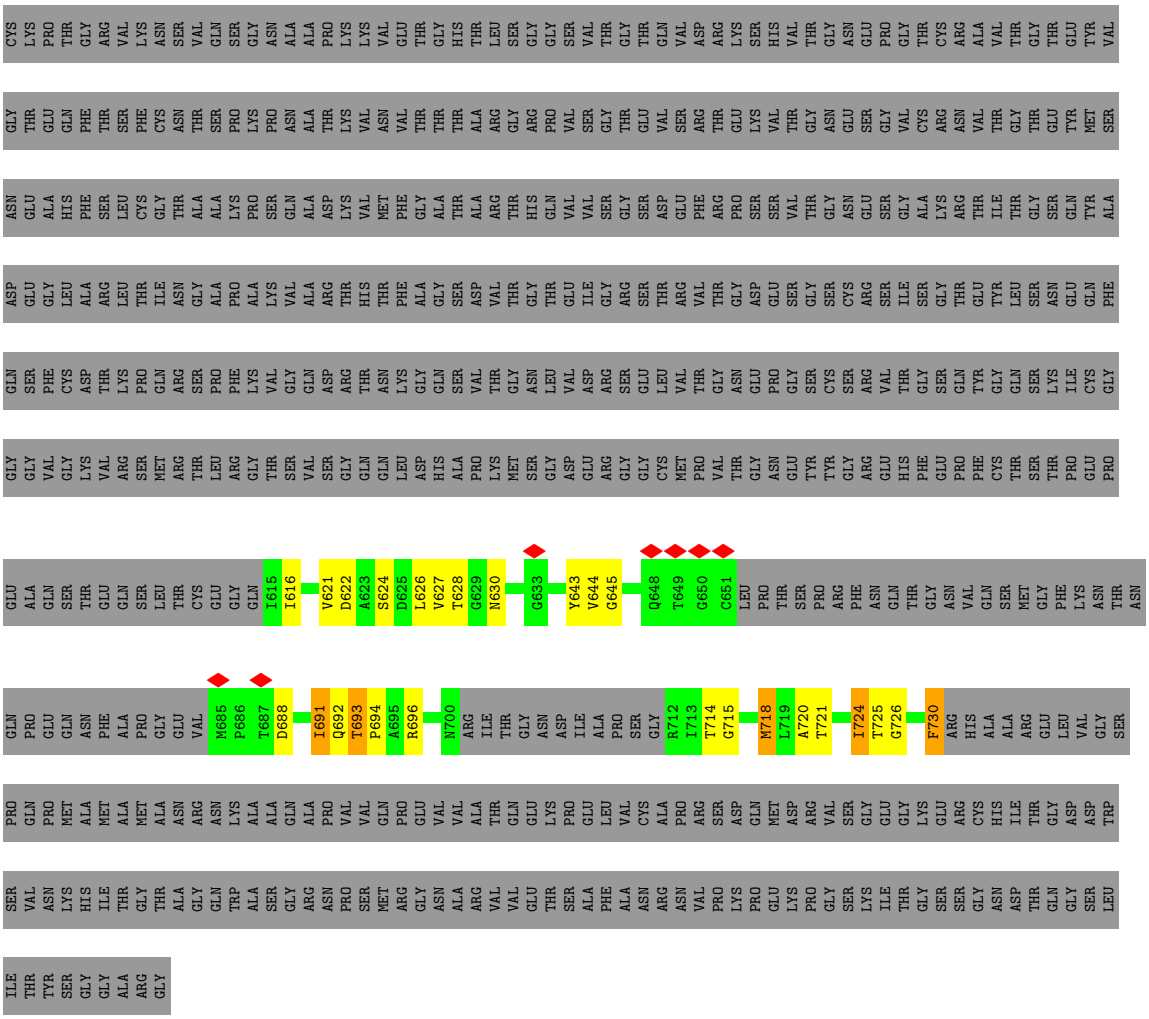
Chain Xl: 6% 92%



• Molecule 3: Carboxysome assembly protein CsoS2B

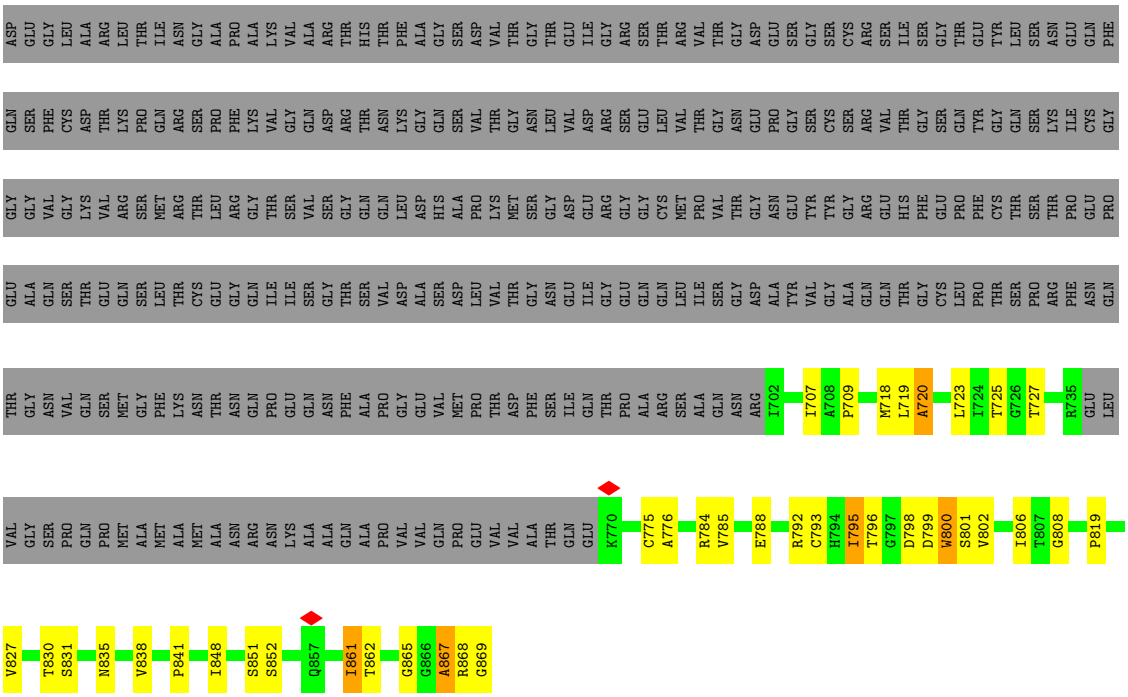
Chain Xo: 5% 92%





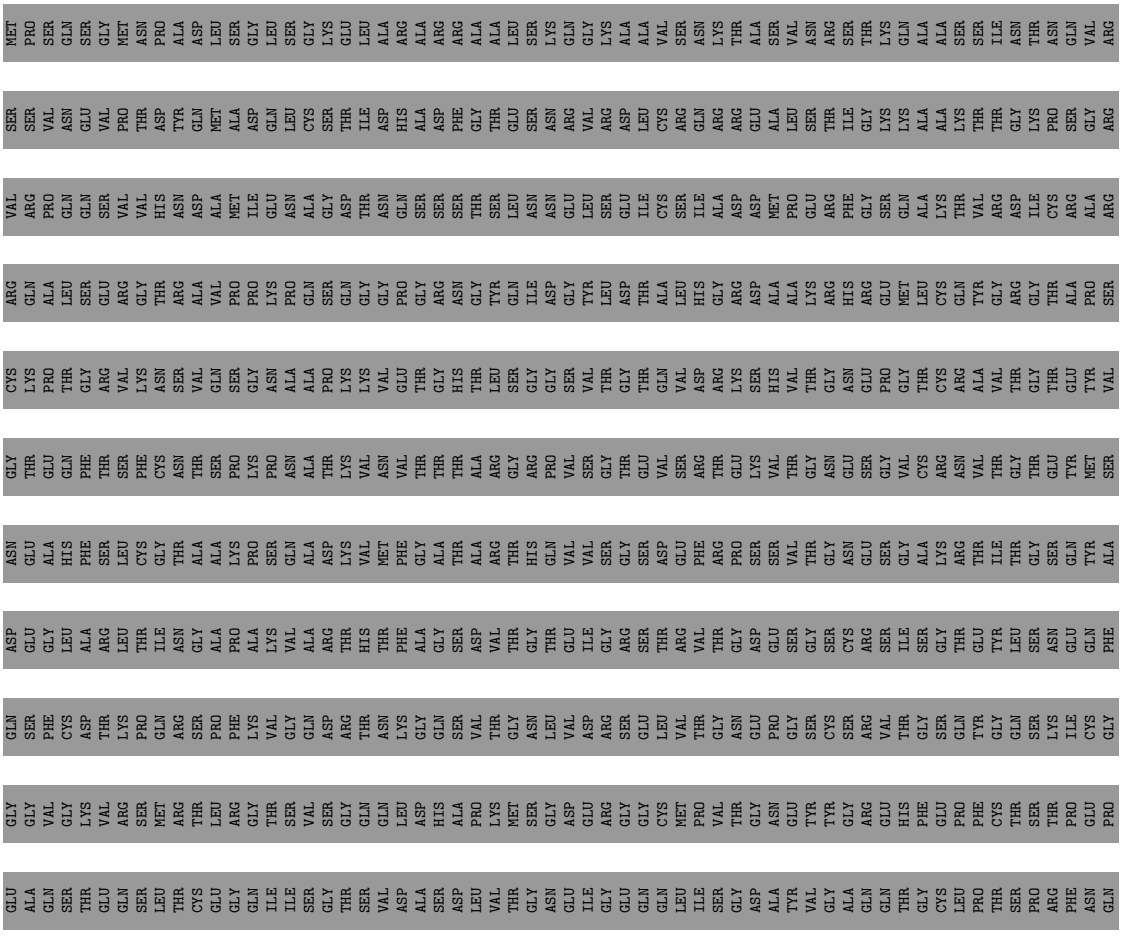
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Yk:



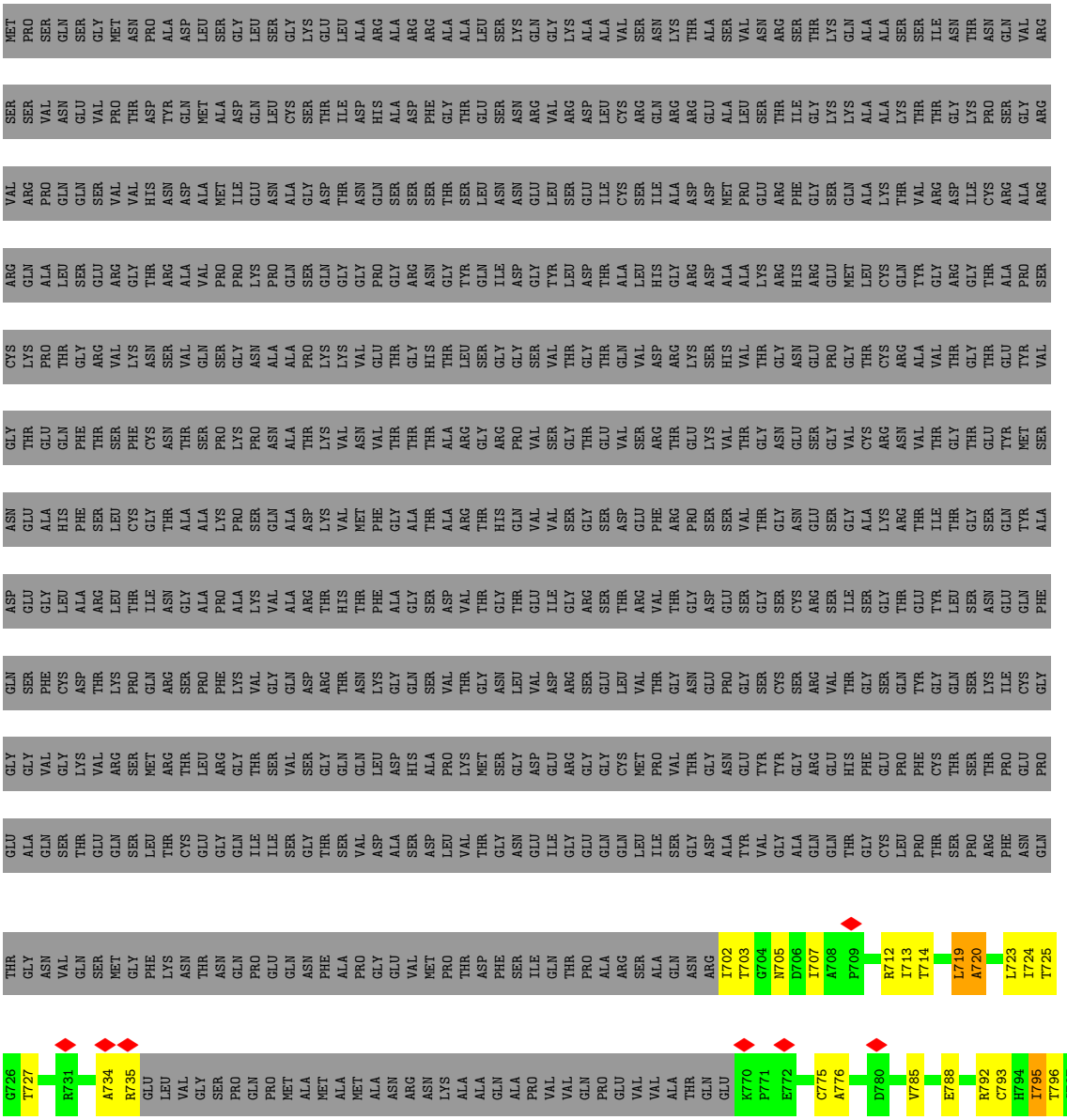
• Molecule 3: Carboxysome assembly protein CsoS2B

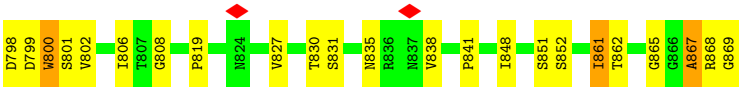
Chain Yl:



• Molecule 3: Carboxysome assembly protein CsoS2B

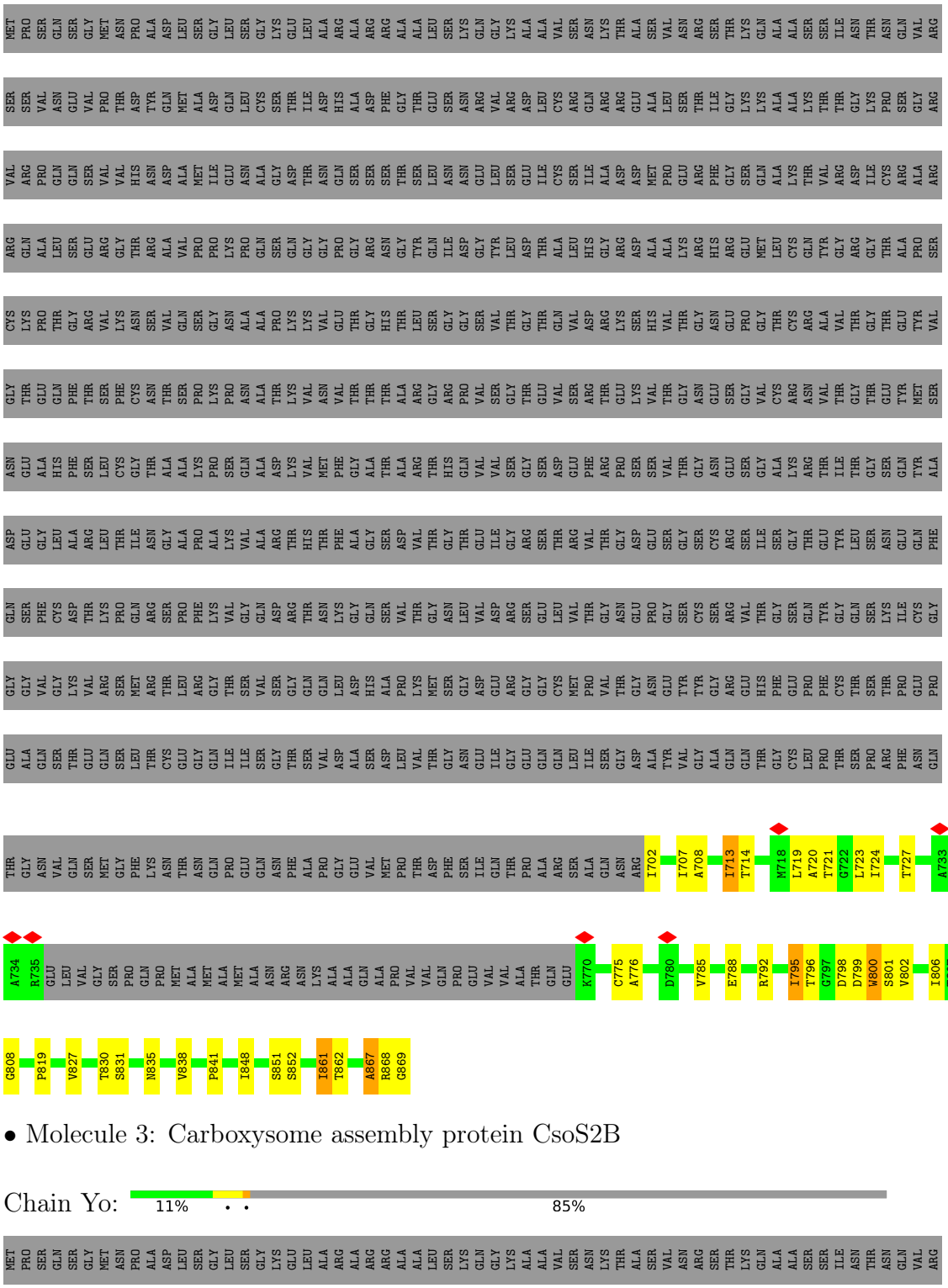
Chain Ym:





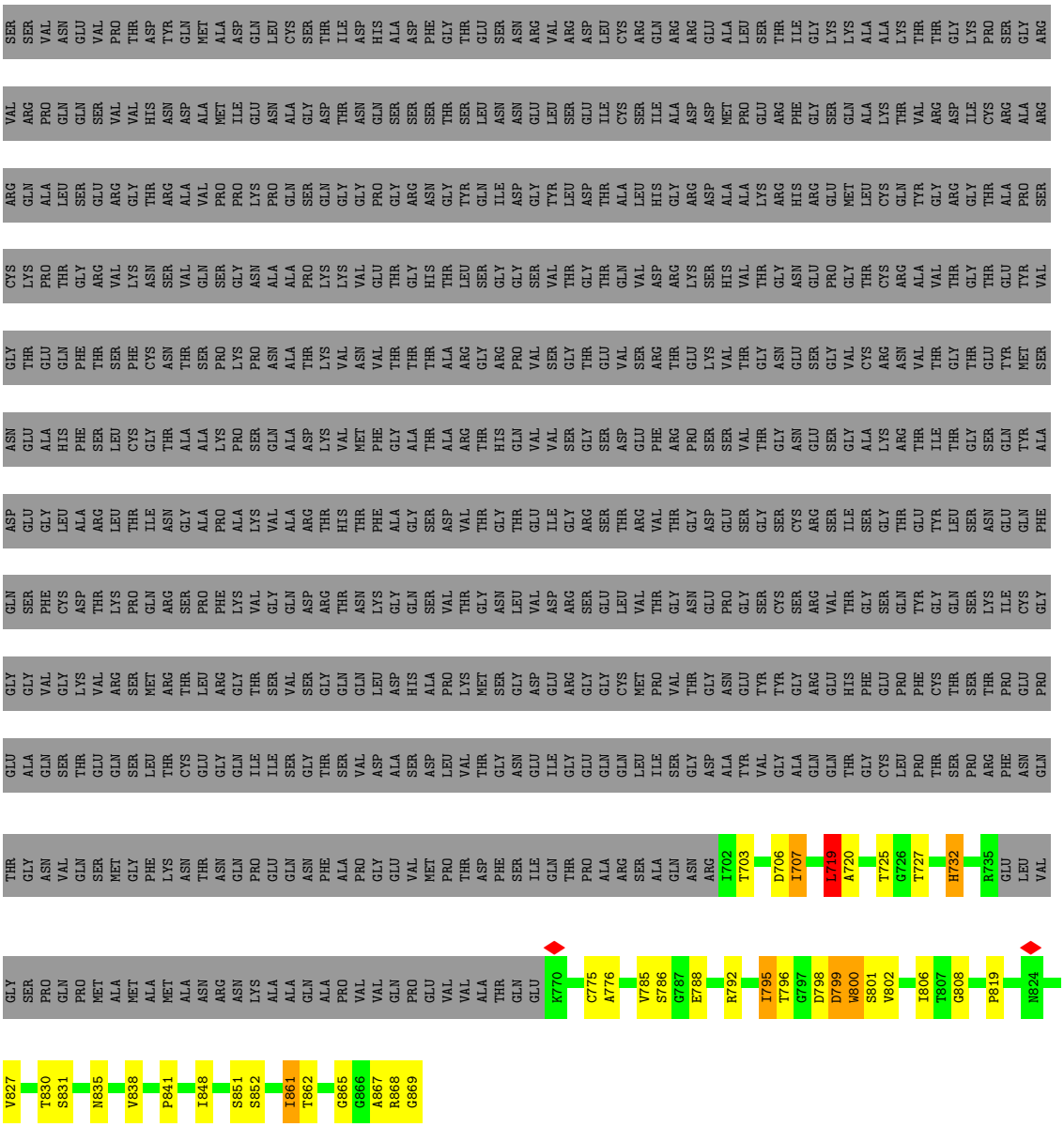
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Yn:



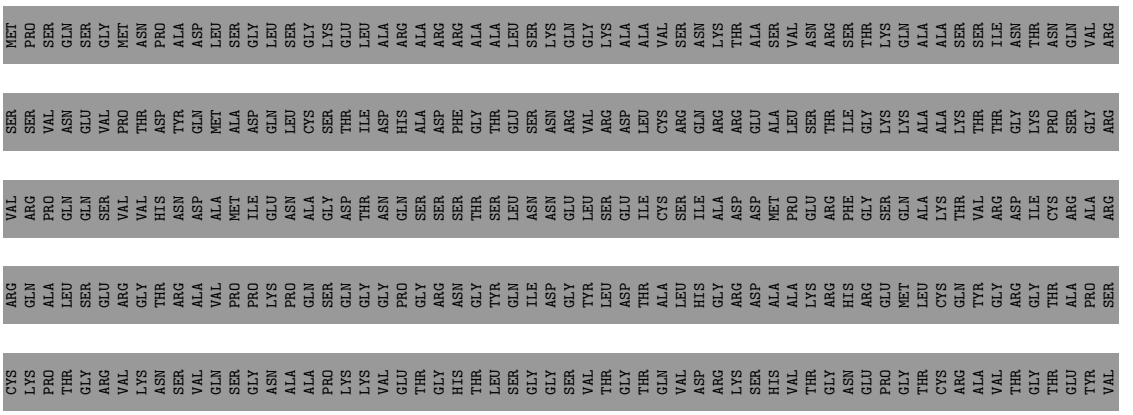
• Molecule 3: Carboxysome assembly protein CsoS2B

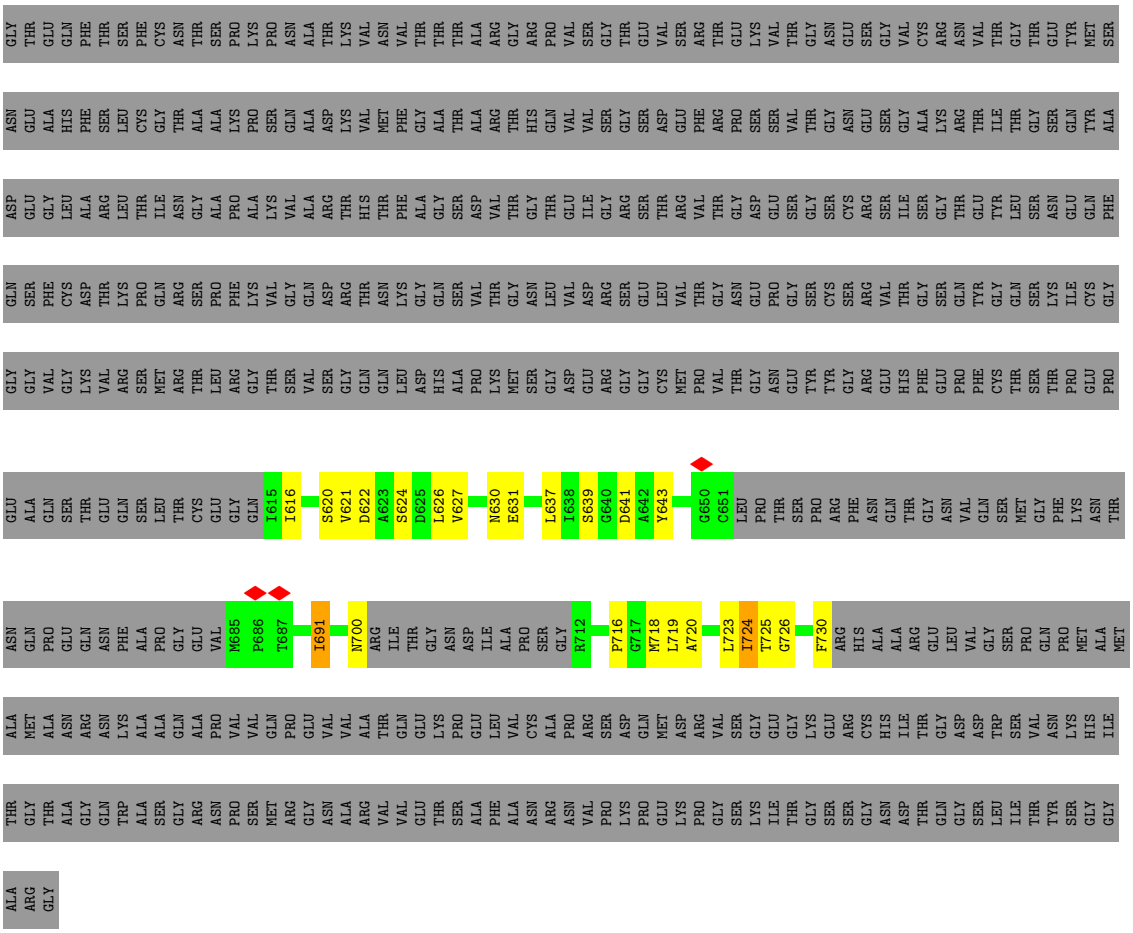
Chain Yo:



• Molecule 3: Carboxysome assembly protein CsoS2B

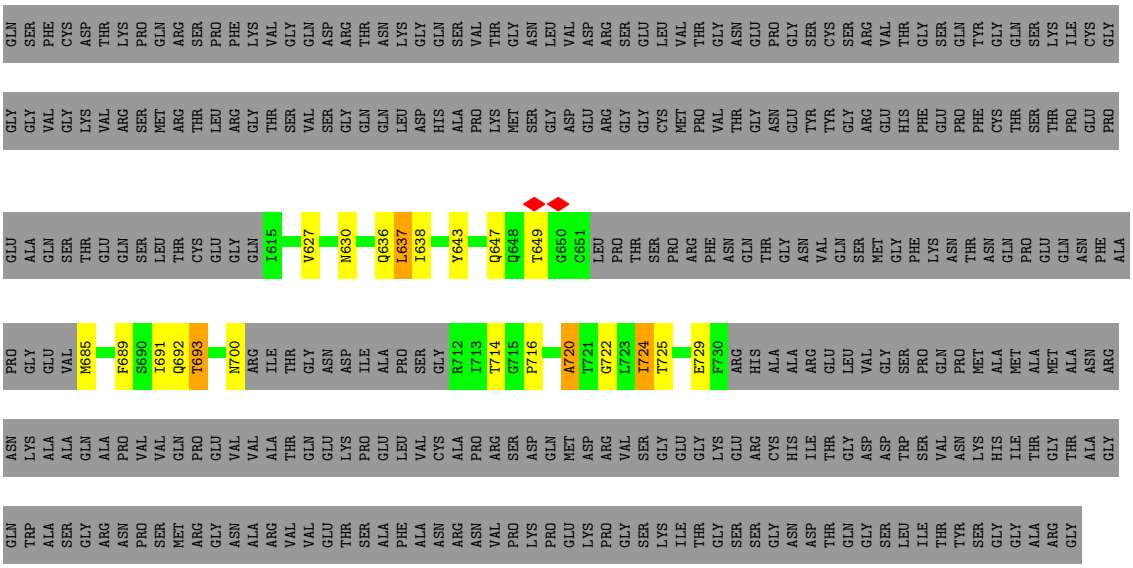
Chain Xp: 6% 92%





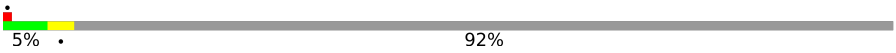
• Molecule 3: Carboxysome assembly protein CsoS2B

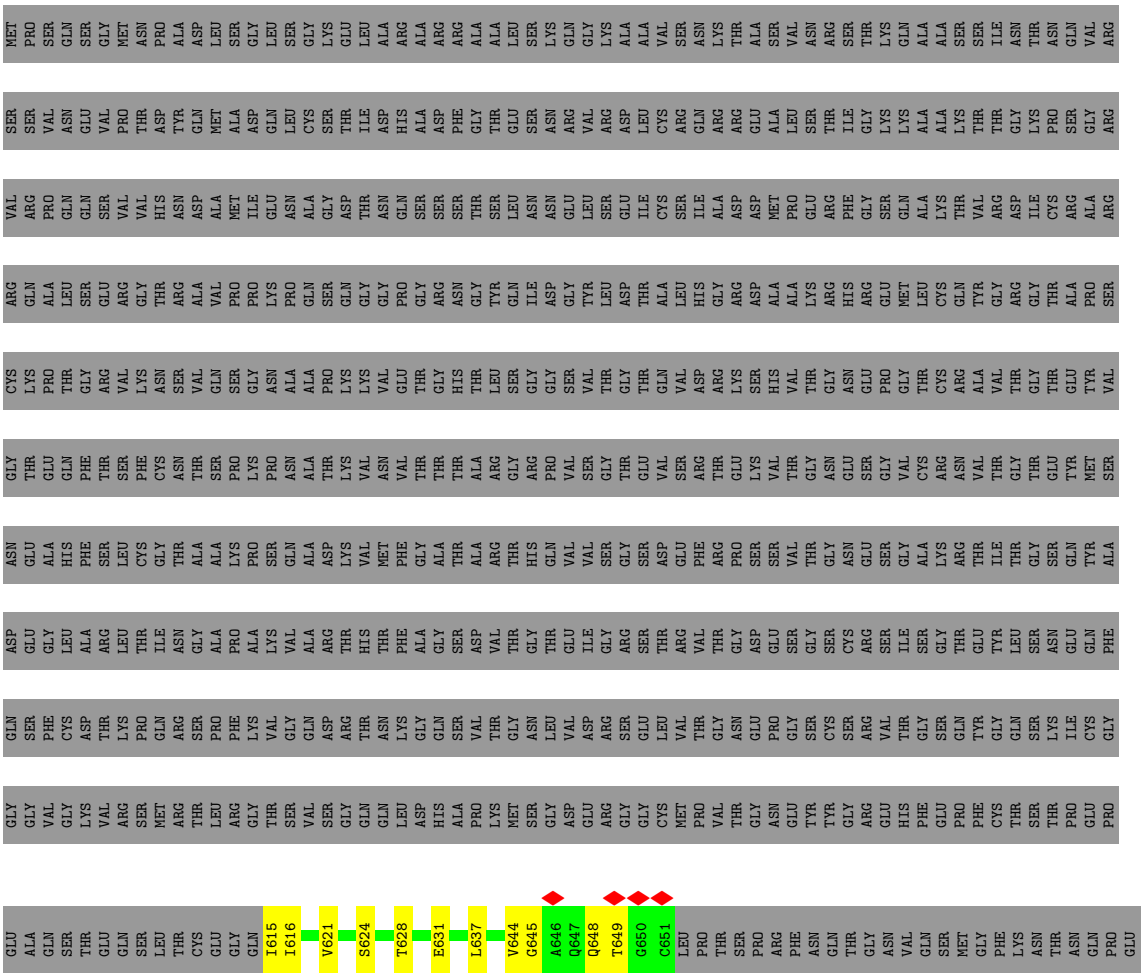
Chain Xs:

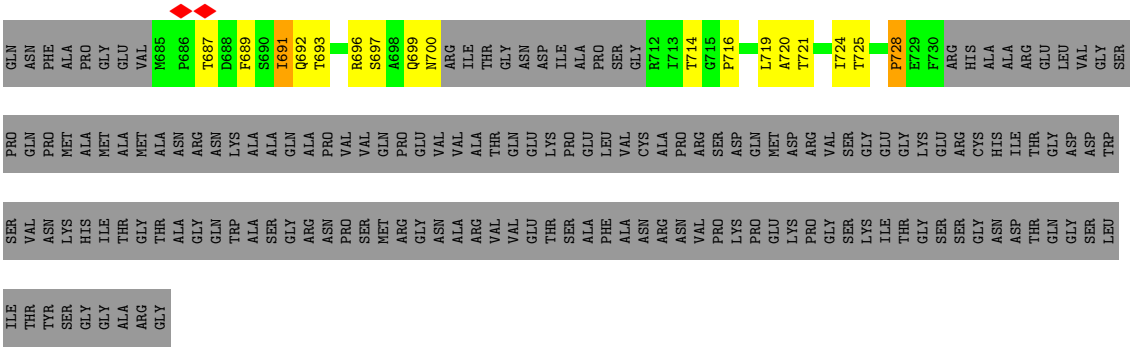


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xj:

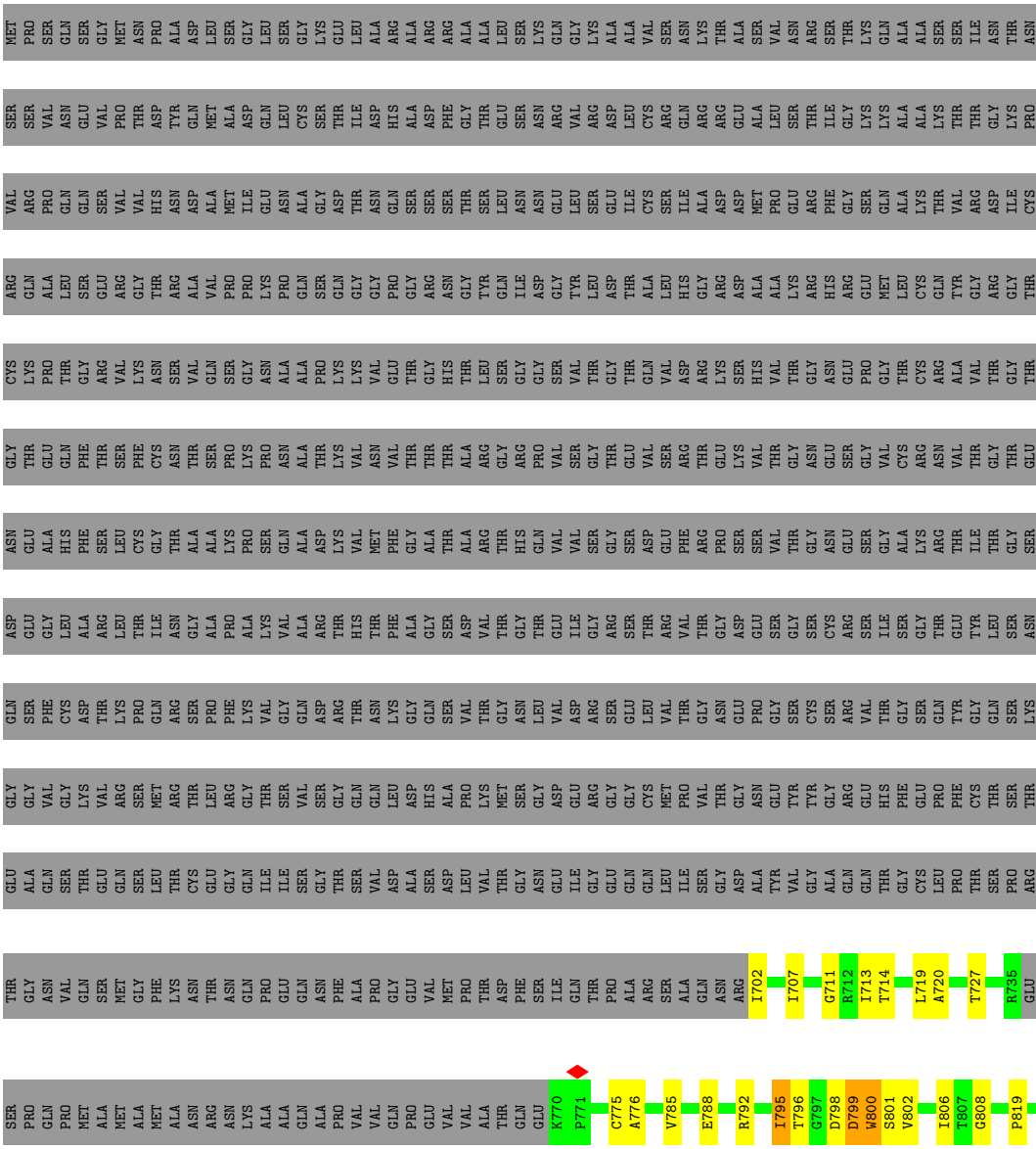


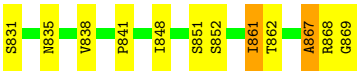




• Molecule 3: Carboxysome assembly protein CsoS2B

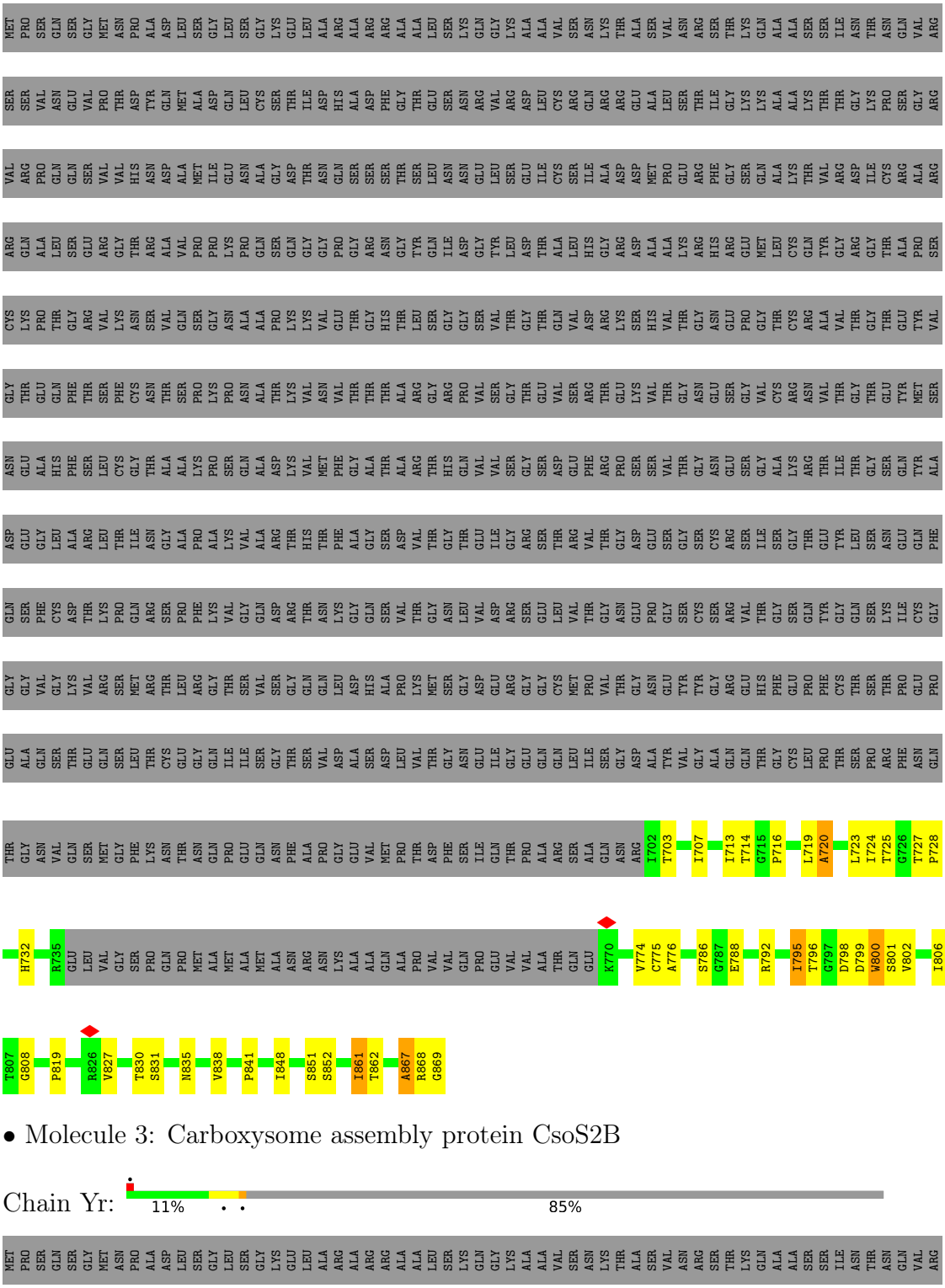
Chain Yp: 11% 85%





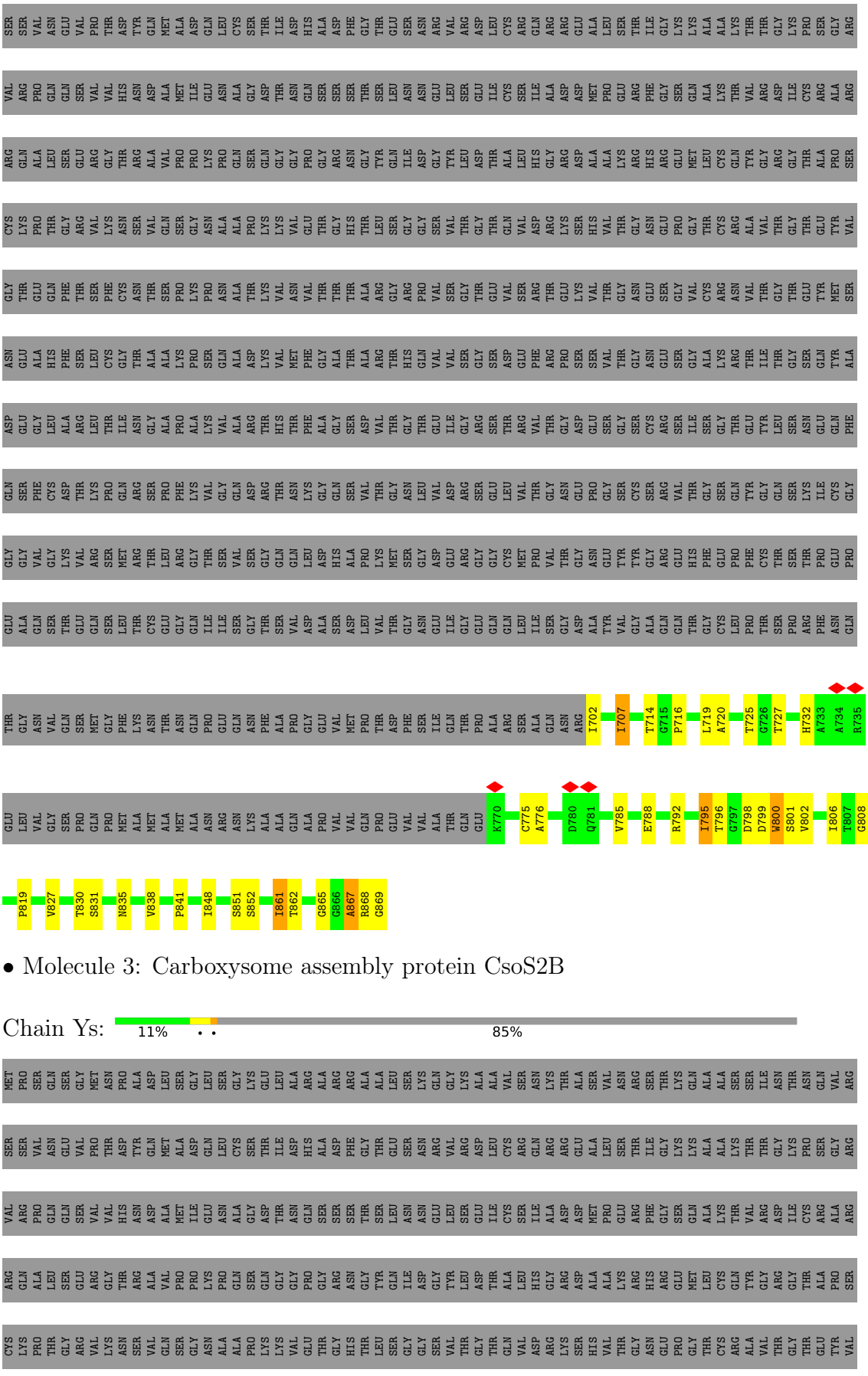
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Yq:



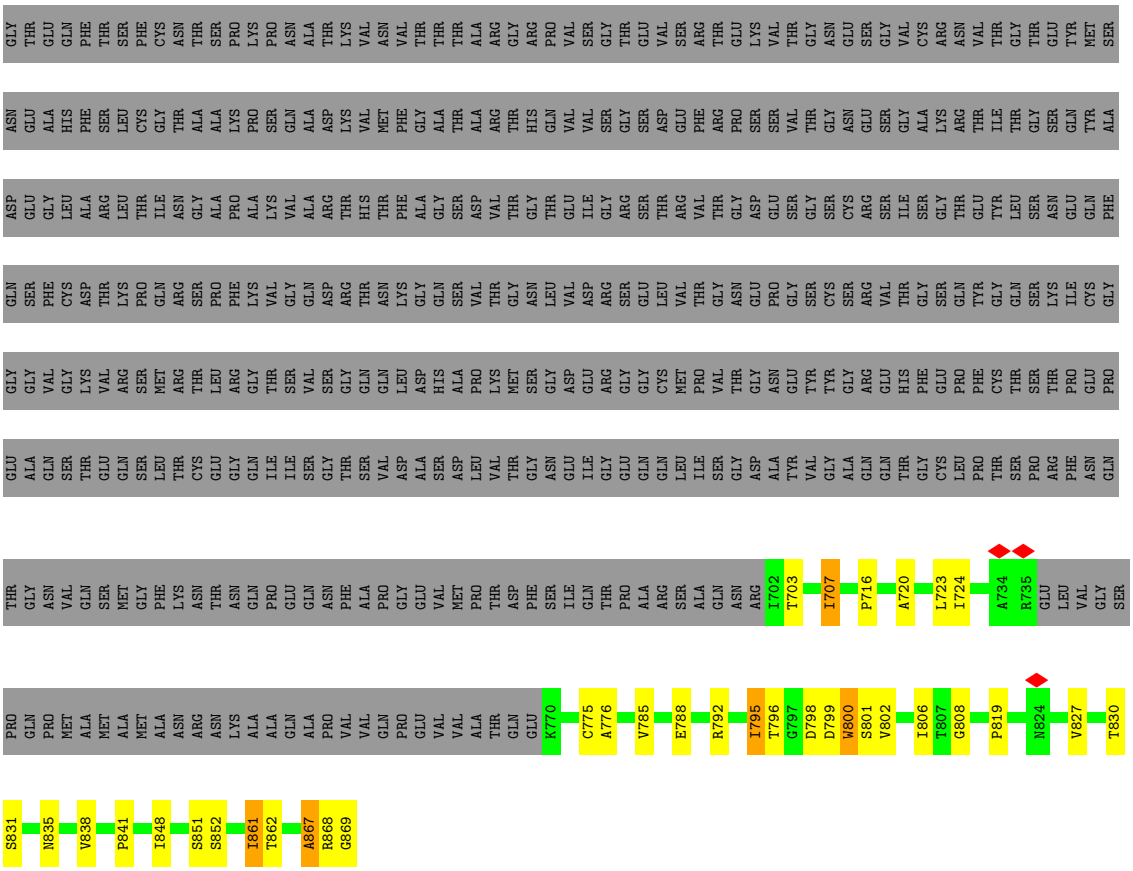
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Yr:



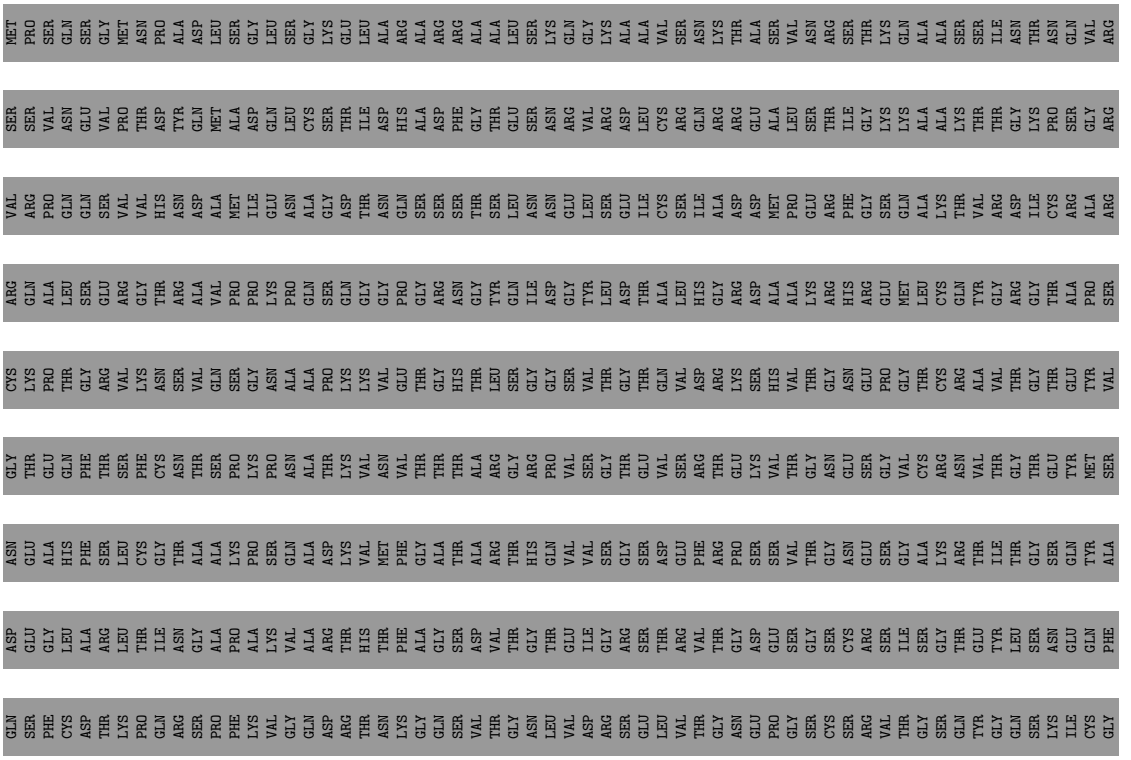
• Molecule 3: Carboxysome assembly protein CsoS2B

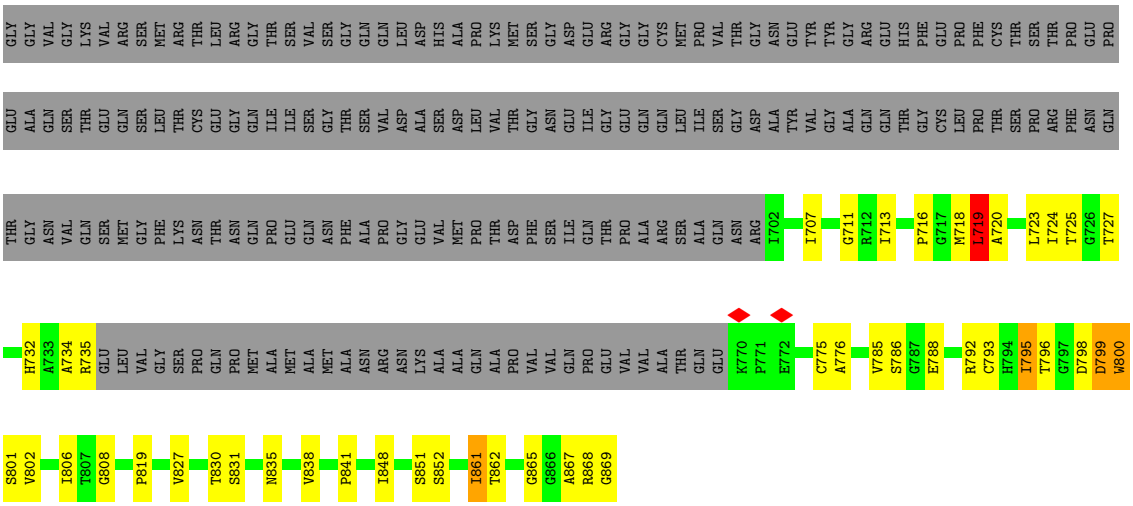
Chain Ys:



• Molecule 3: Carboxysome assembly protein CsoS2B

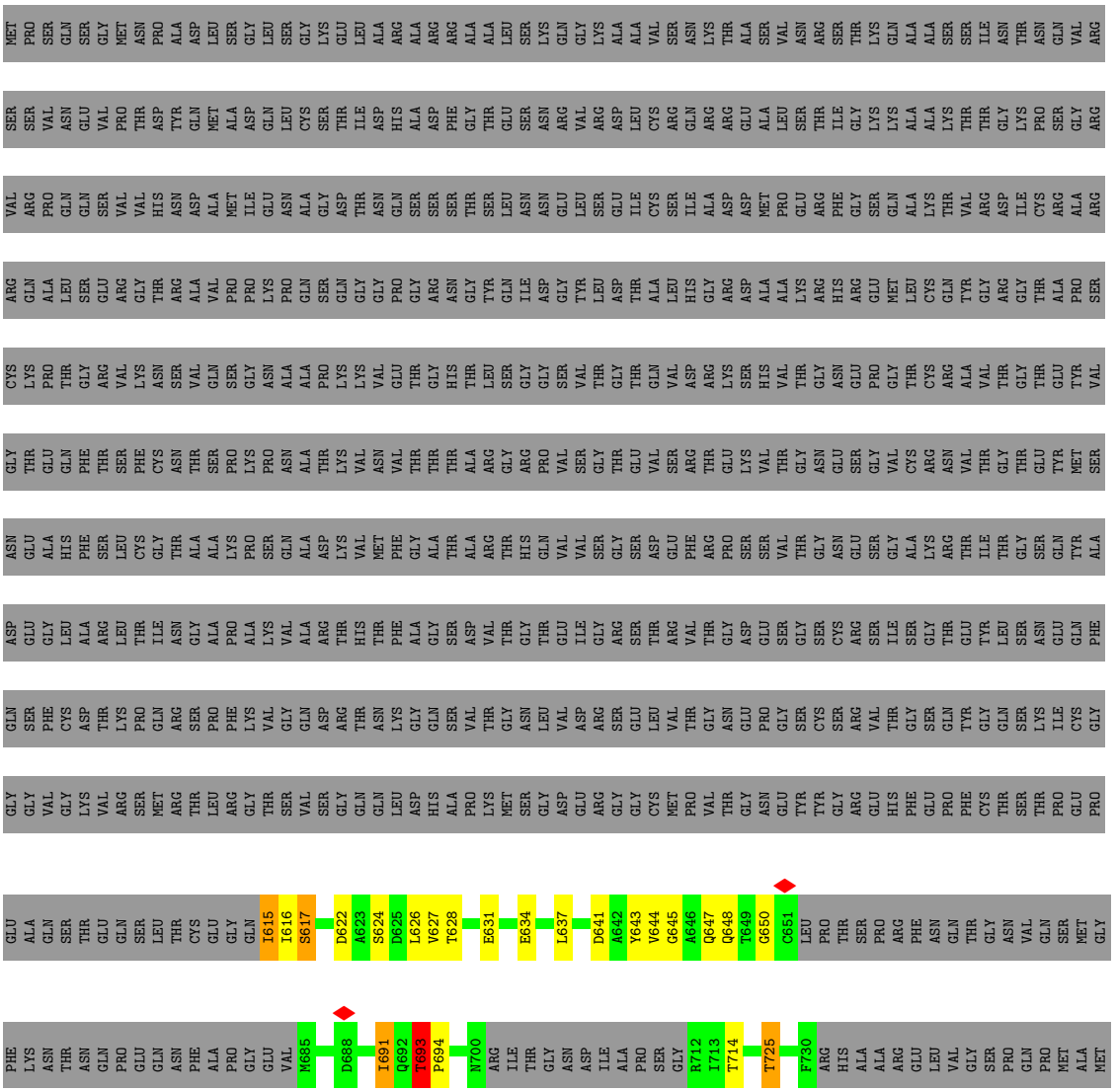
Chain Yj:

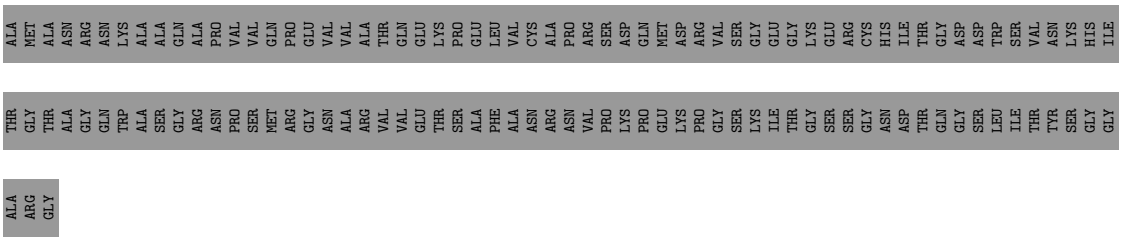




• Molecule 3: Carboxysome assembly protein CsoS2B

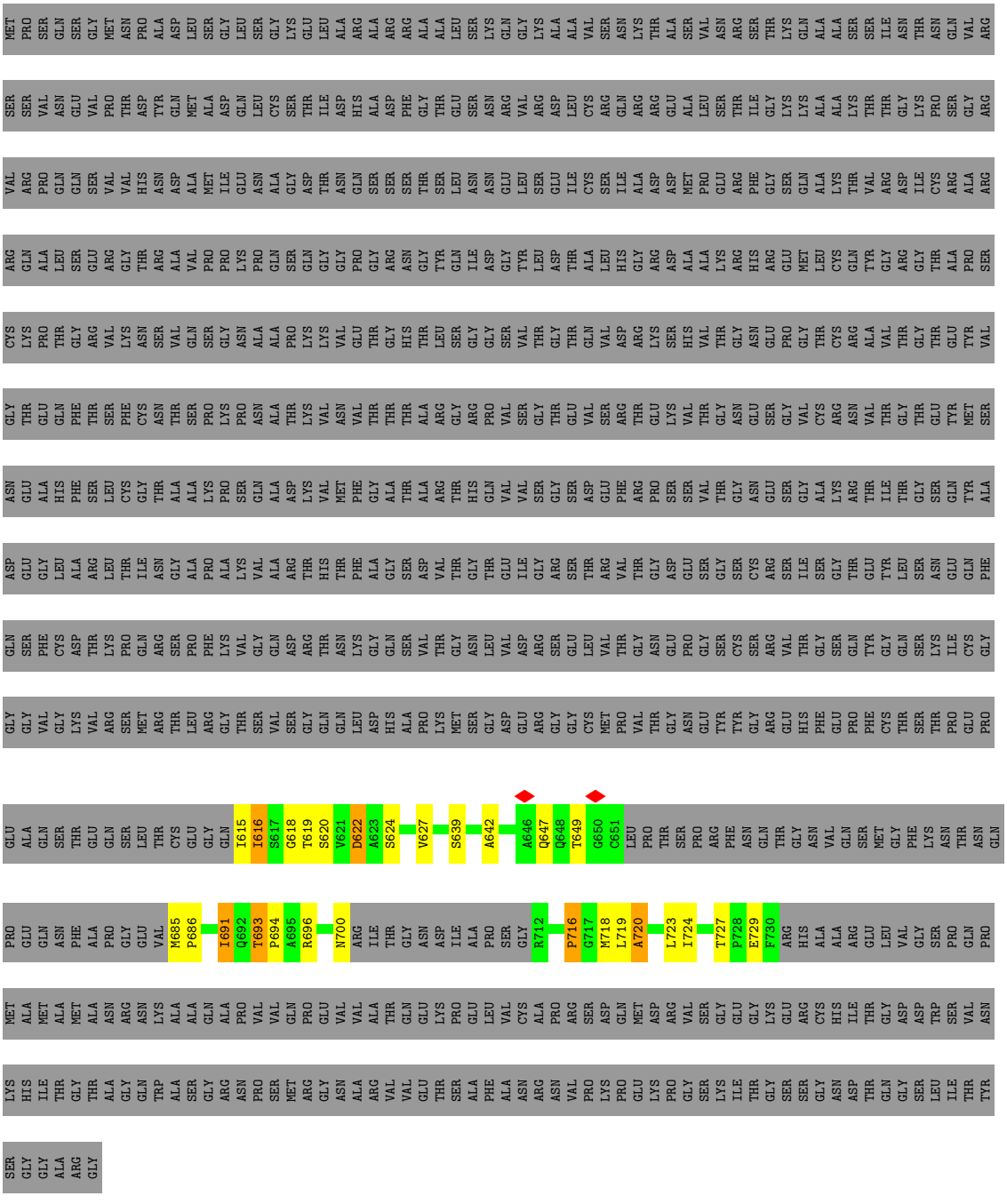
Chain XD: 6% 92%





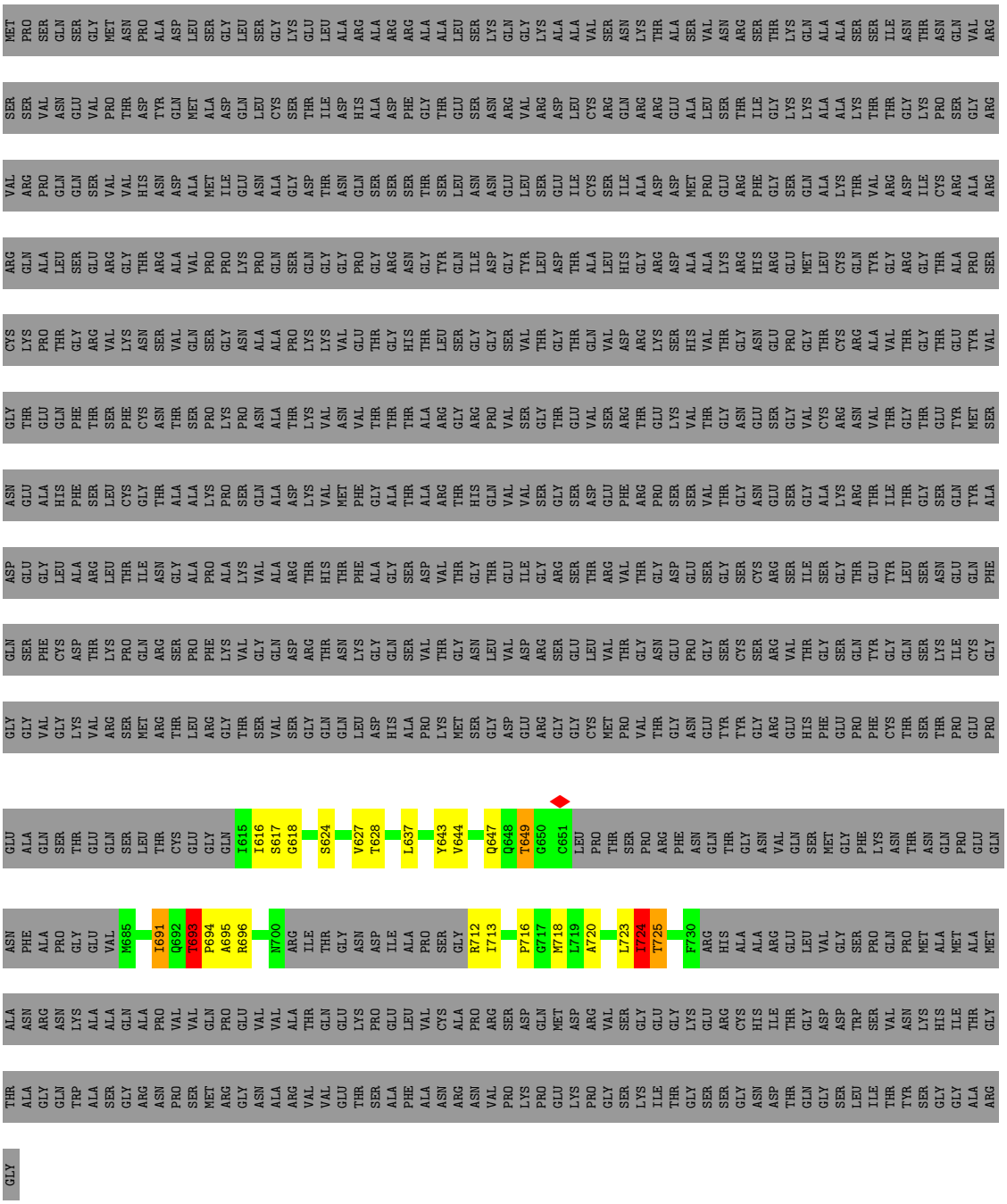
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain X4: 5% 92%



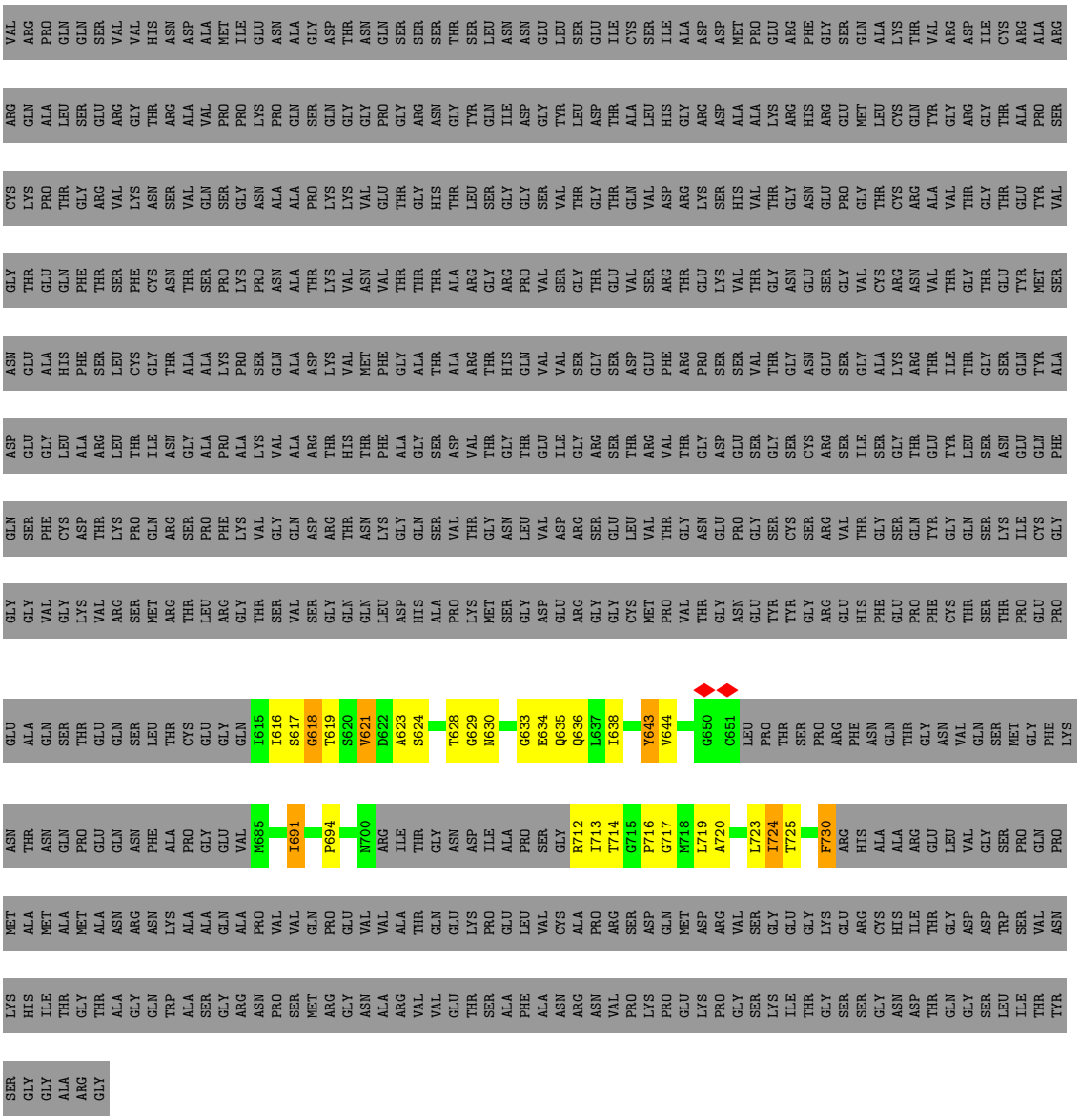
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain X7: 6% • 92%



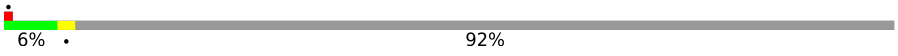
• Molecule 3: Carboxysome assembly protein CsoS2B

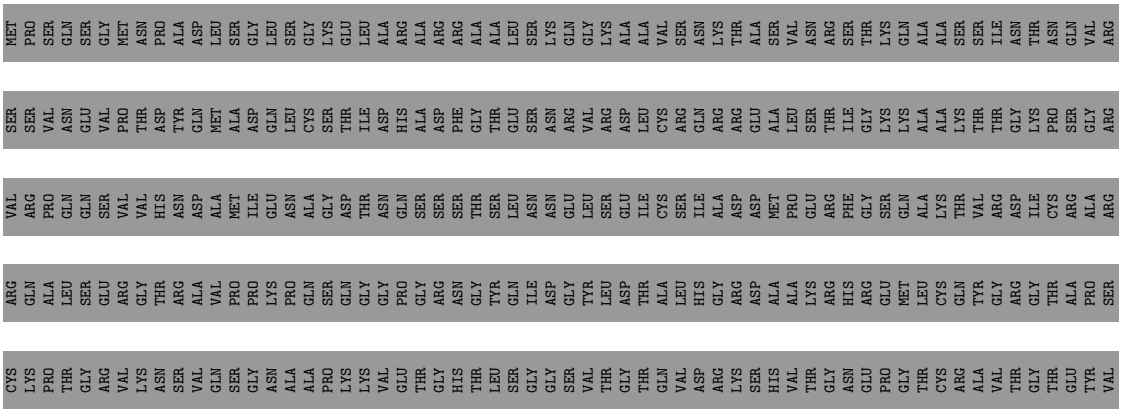
Chain X8: 5% • 92%

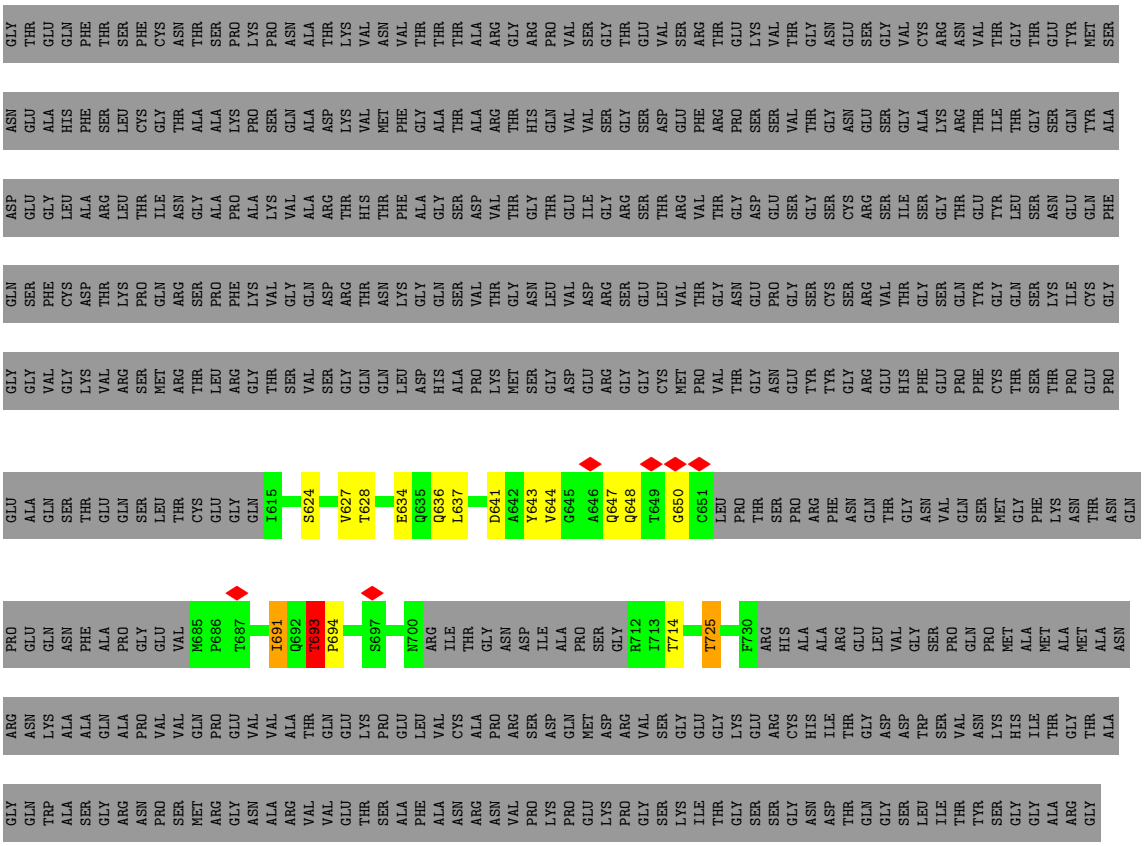


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain XS:

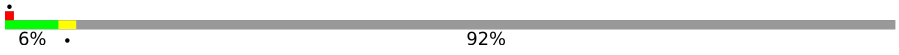


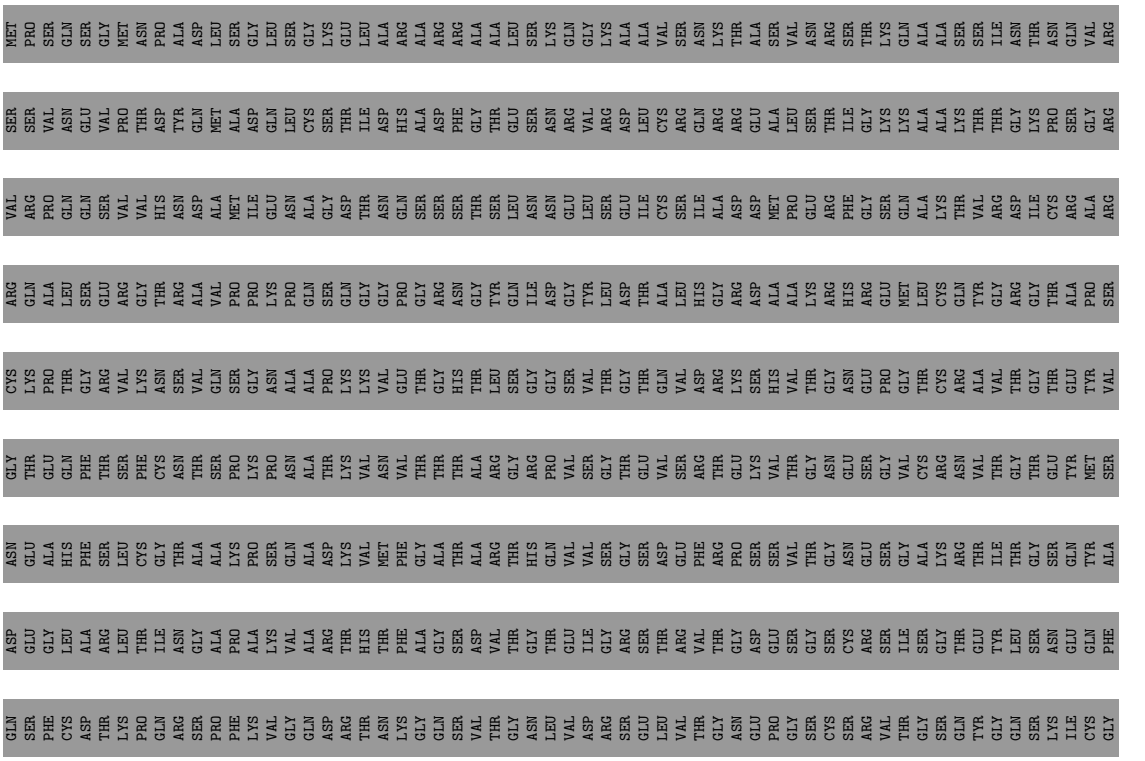


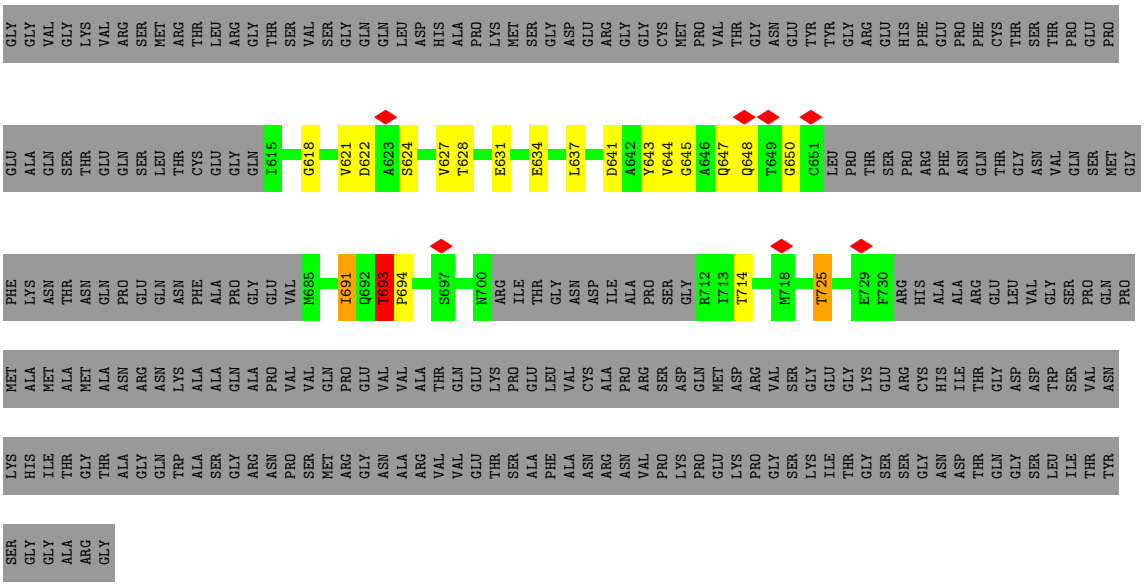


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xh:

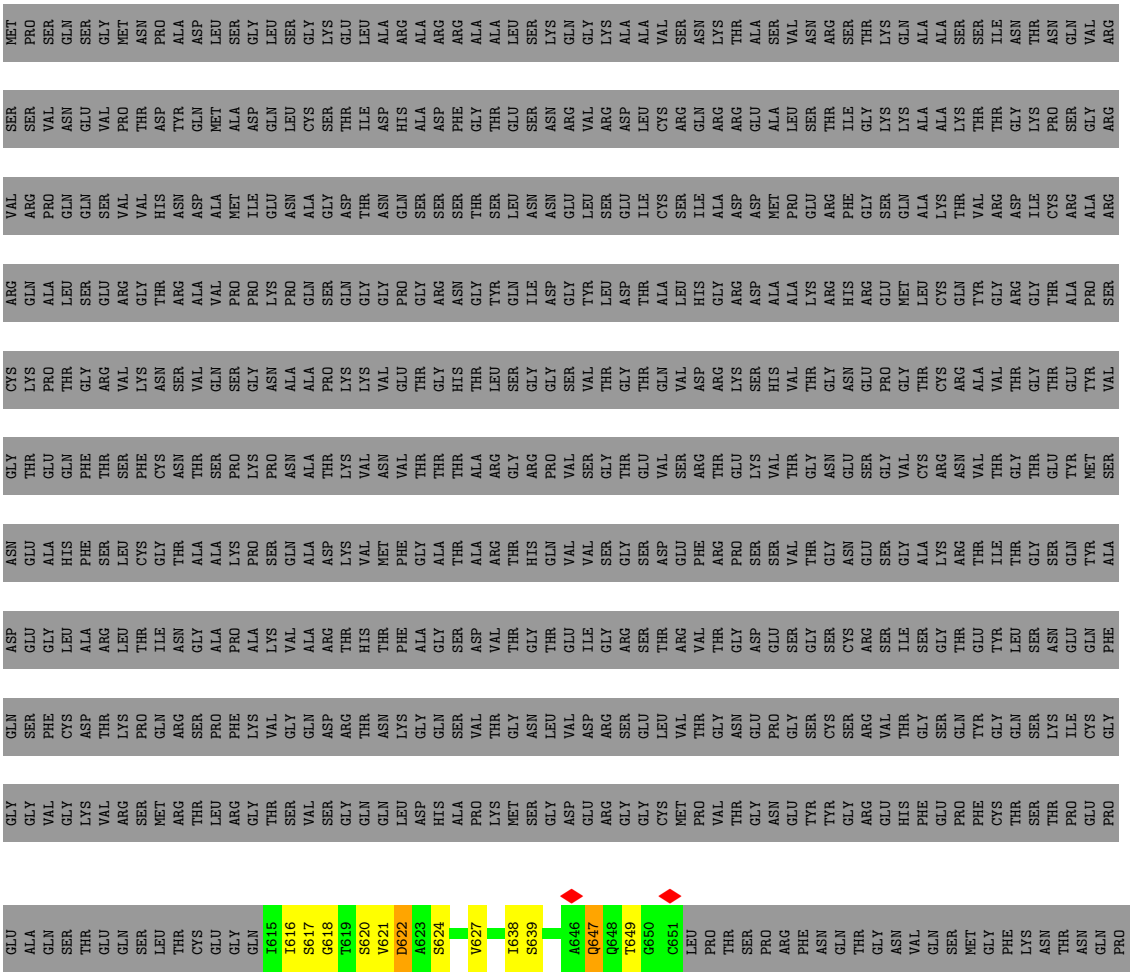


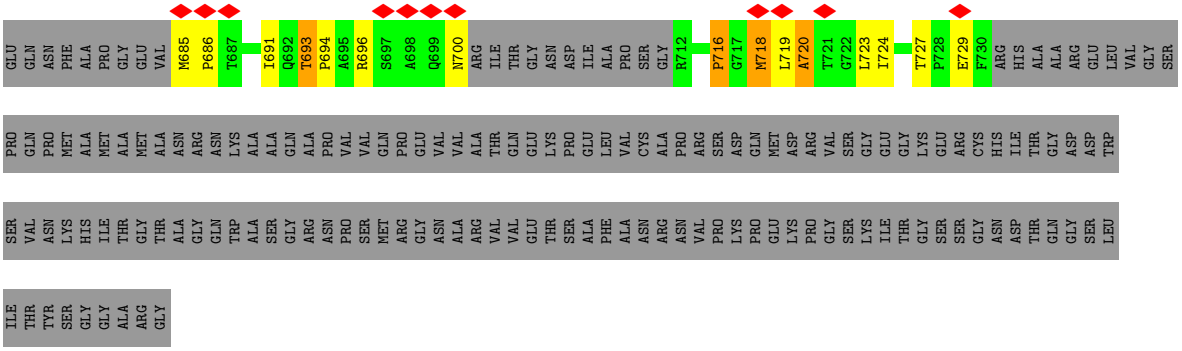




• Molecule 3: Carboxysome assembly protein CsoS2B

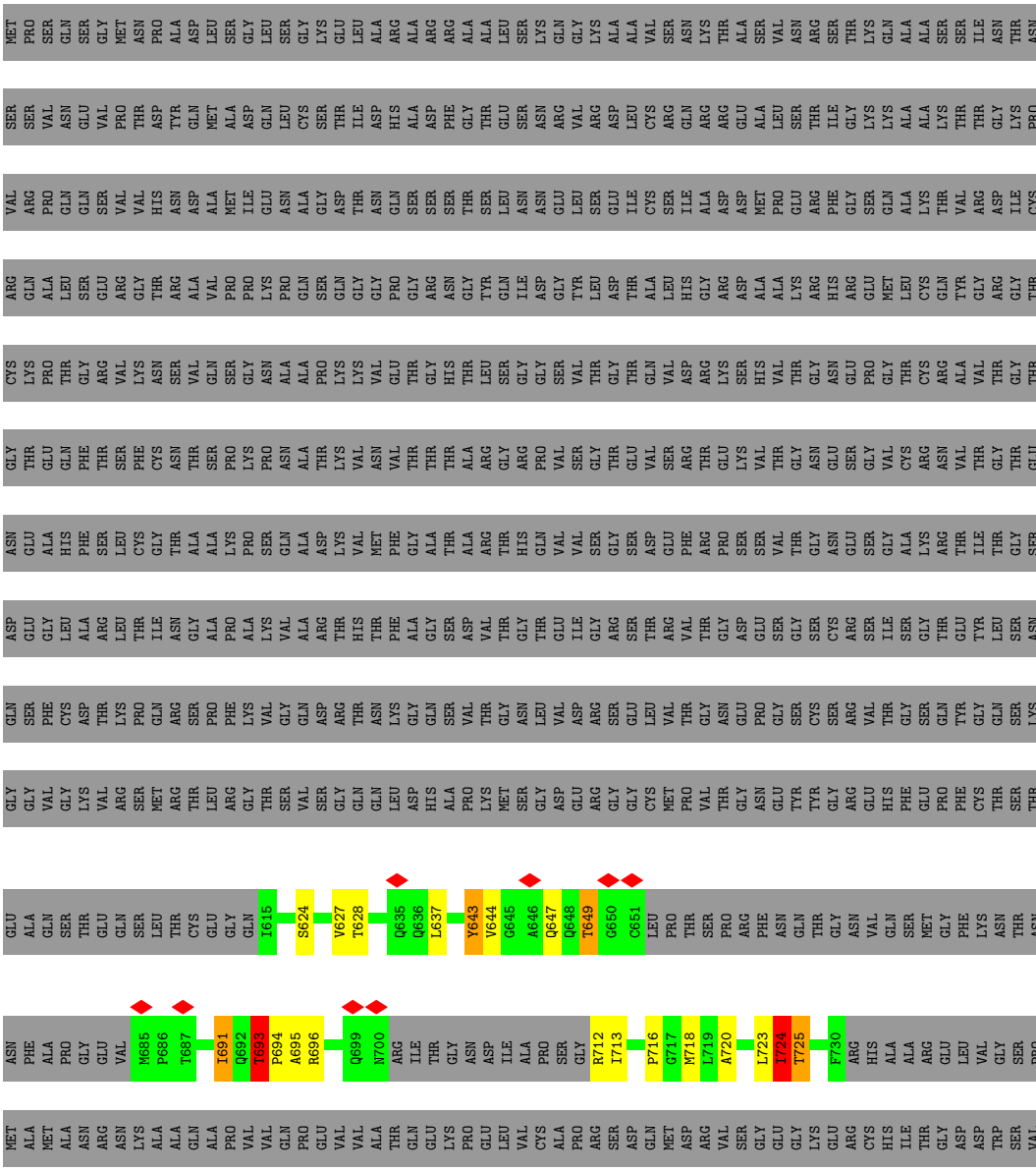
Chain XY: 5% 92%

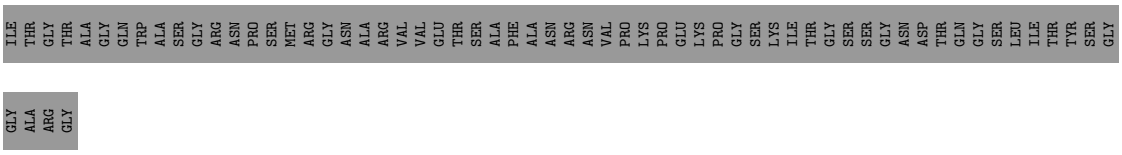




• Molecule 3: Carboxysome assembly protein CsoS2B

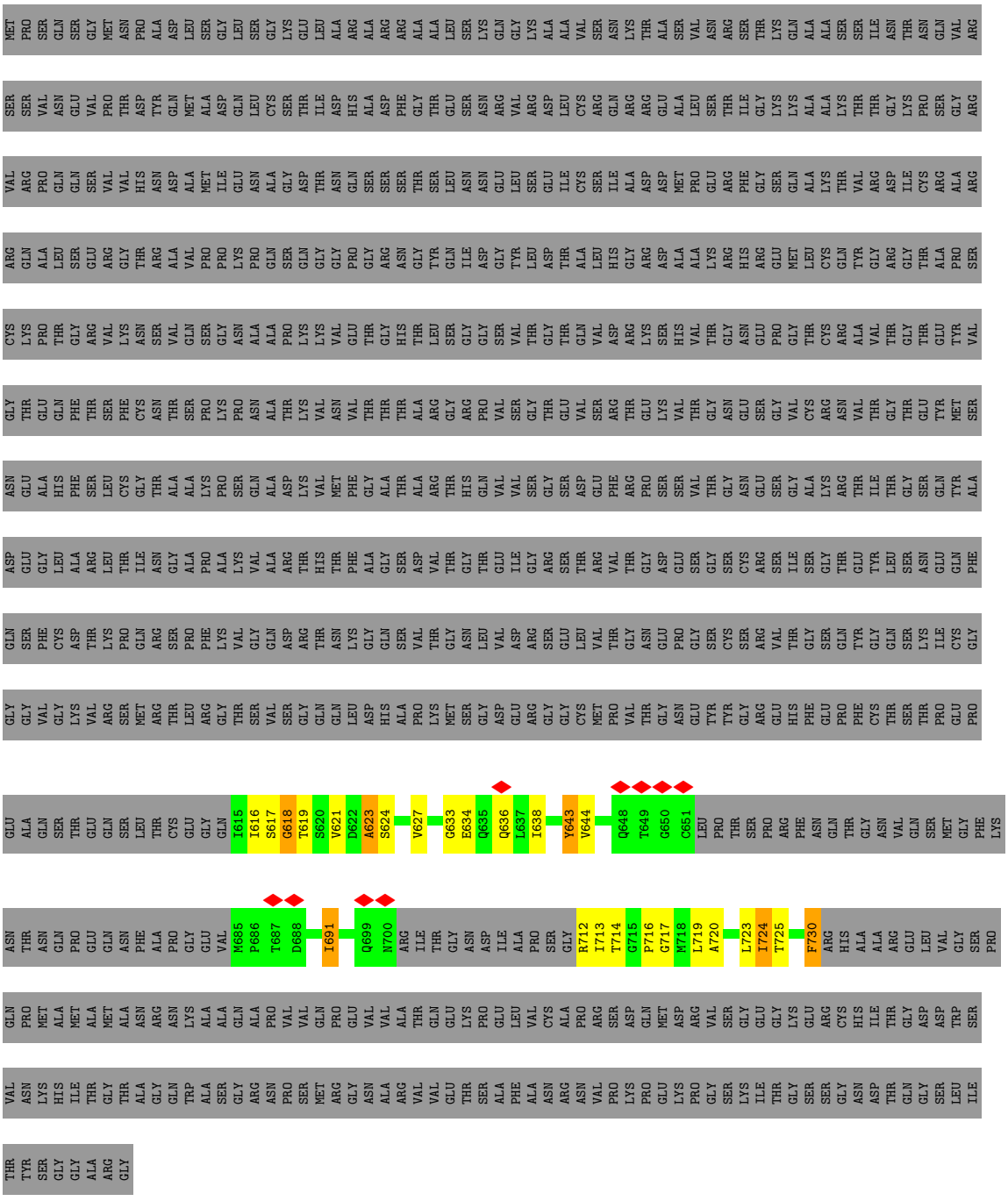
Chain Xb: 6% 92%





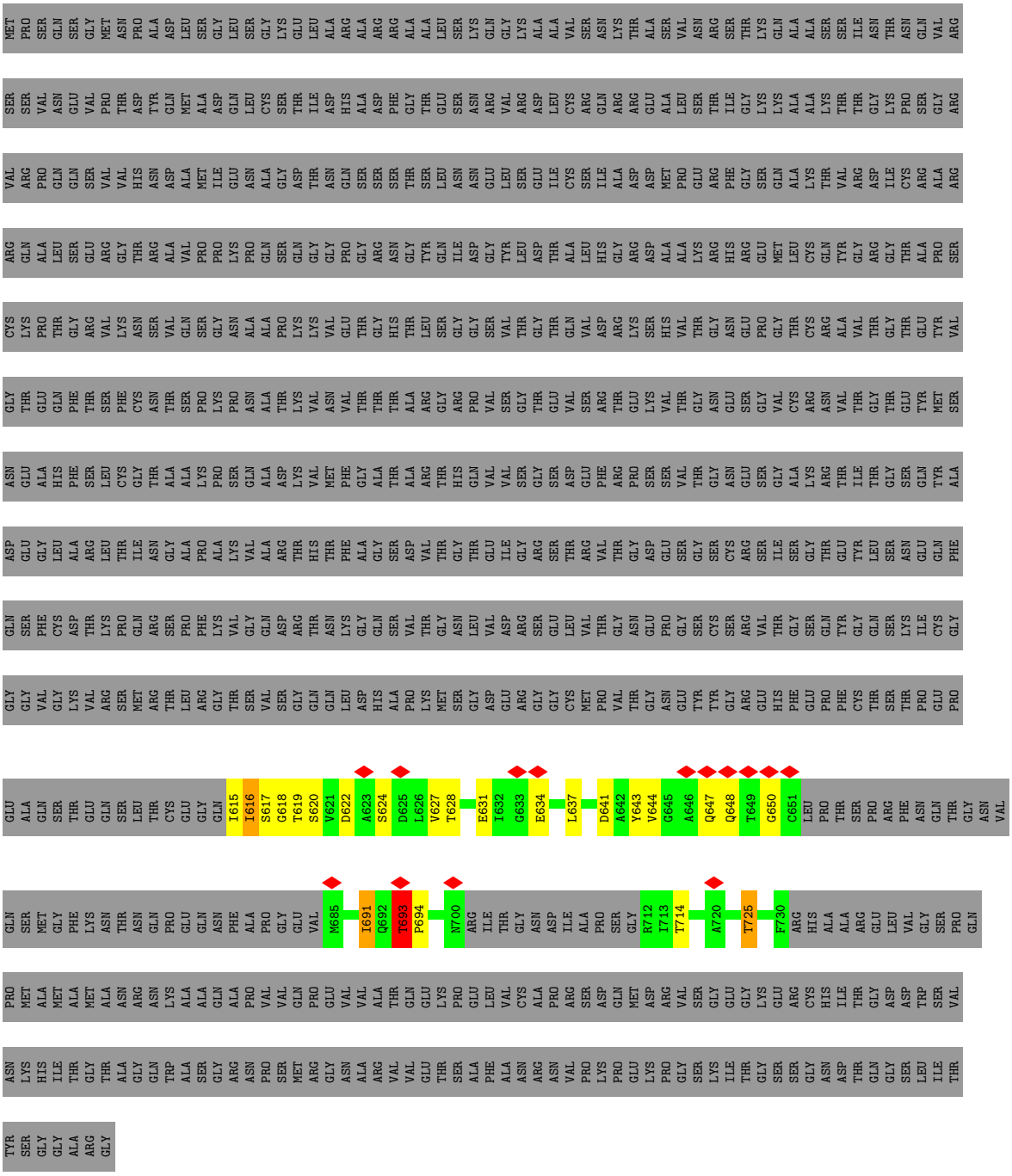
• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xc: 5% 92%



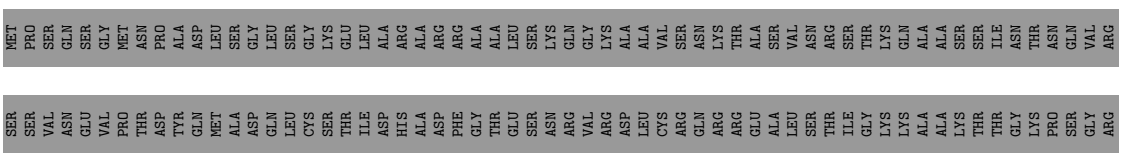
• Molecule 3: Carboxysome assembly protein CsoS2B

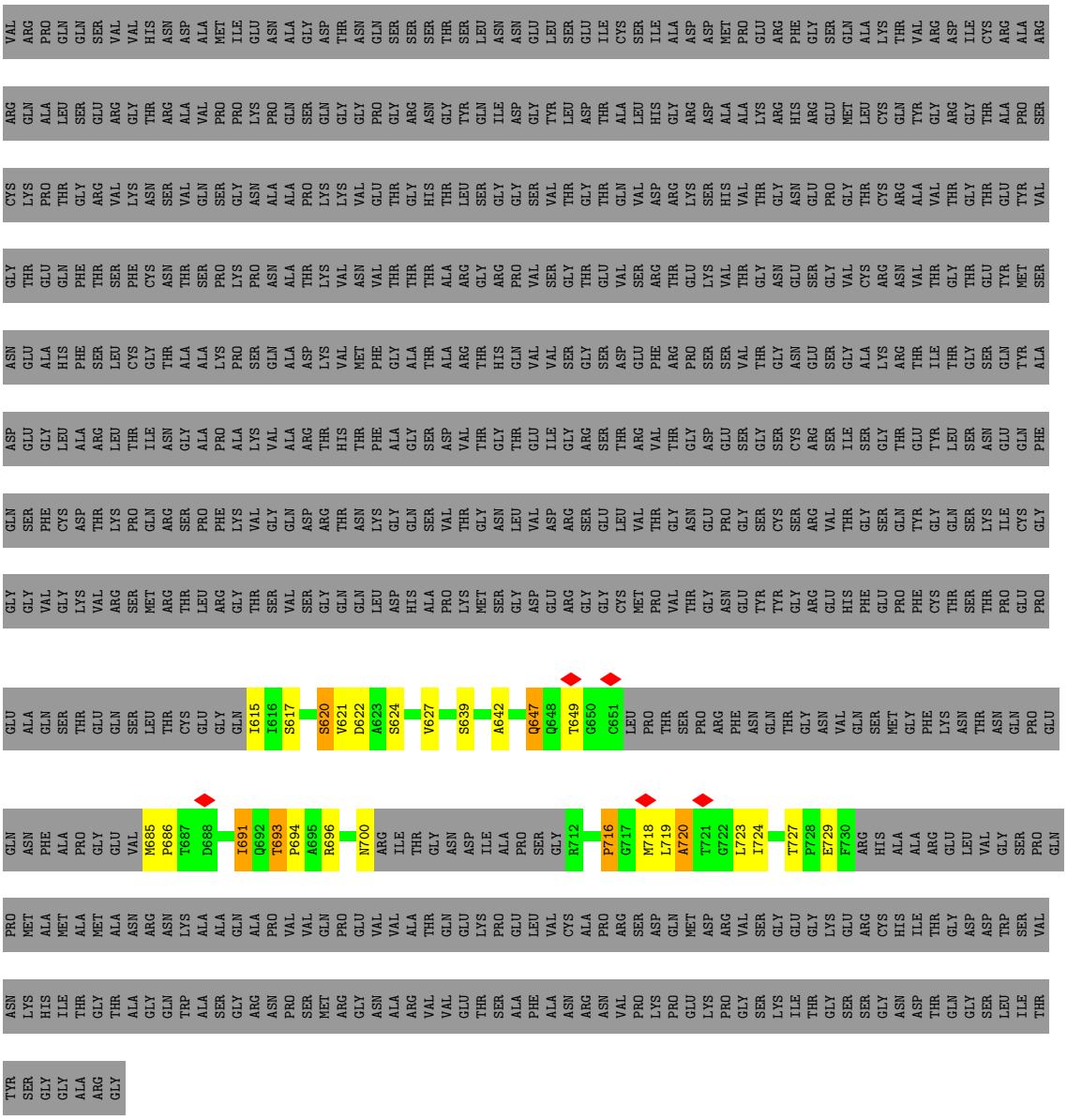
Chain Xw:



• Molecule 3: Carboxysome assembly protein CsoS2B

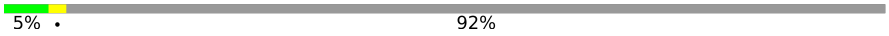
Chain Xn:

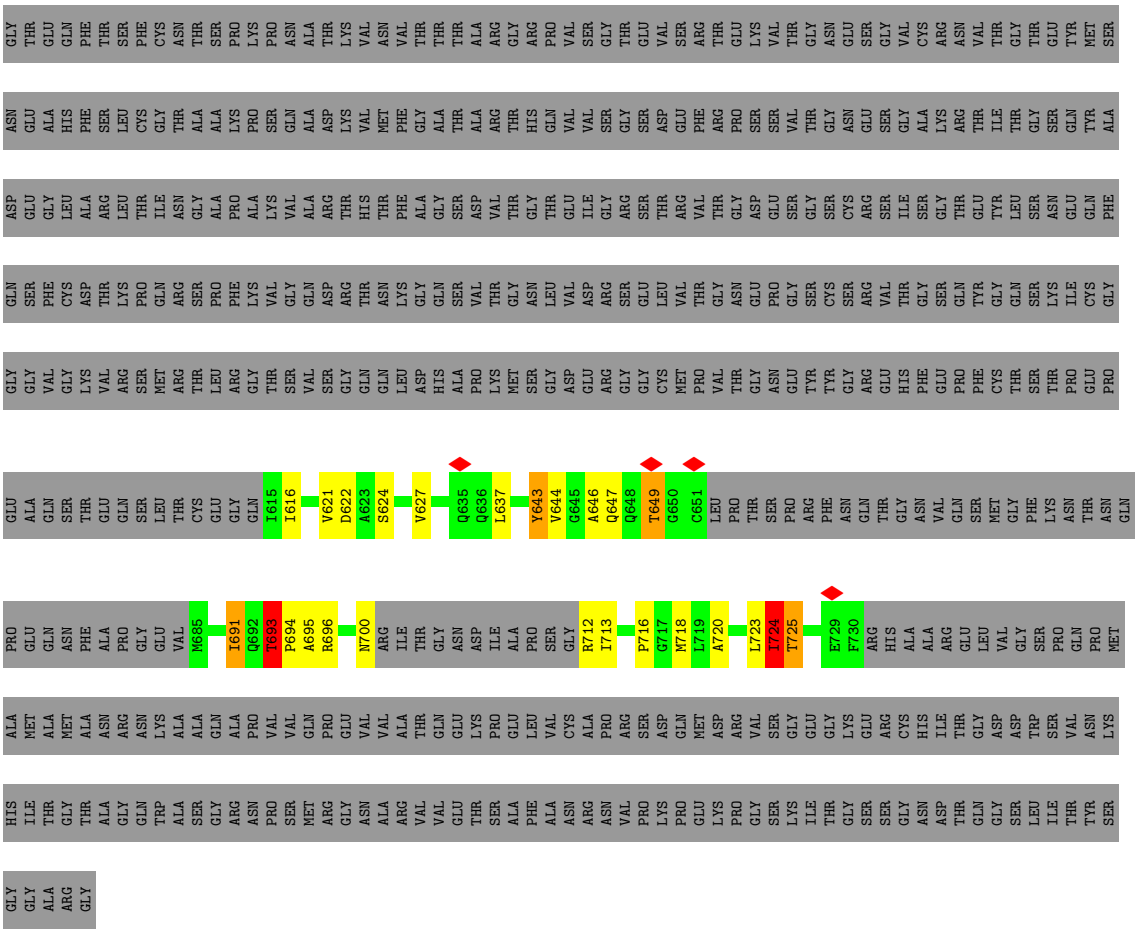




• Molecule 3: Carboxysome assembly protein CsoS2B

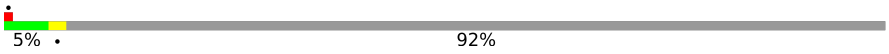
Chain Xq:

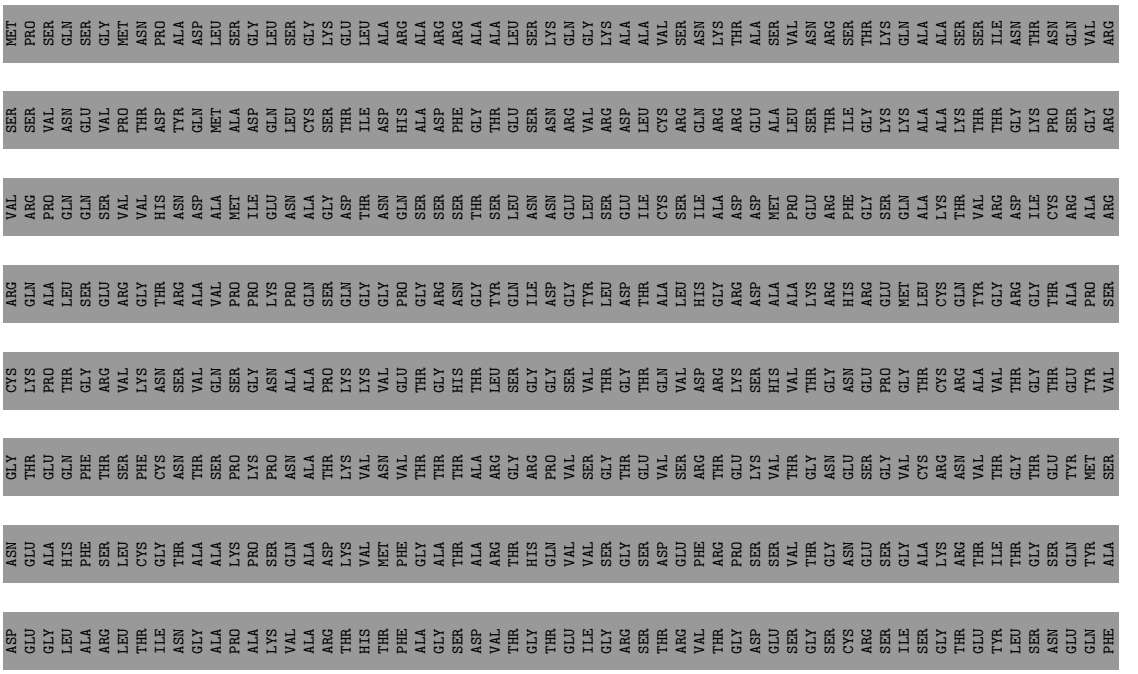


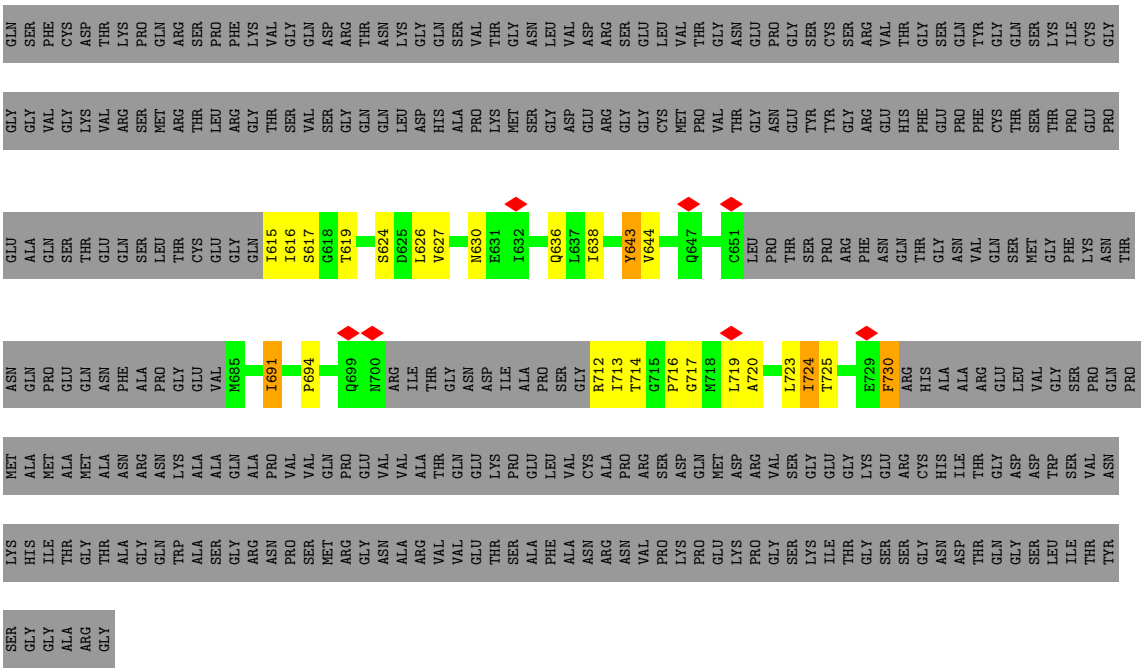


• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xr:

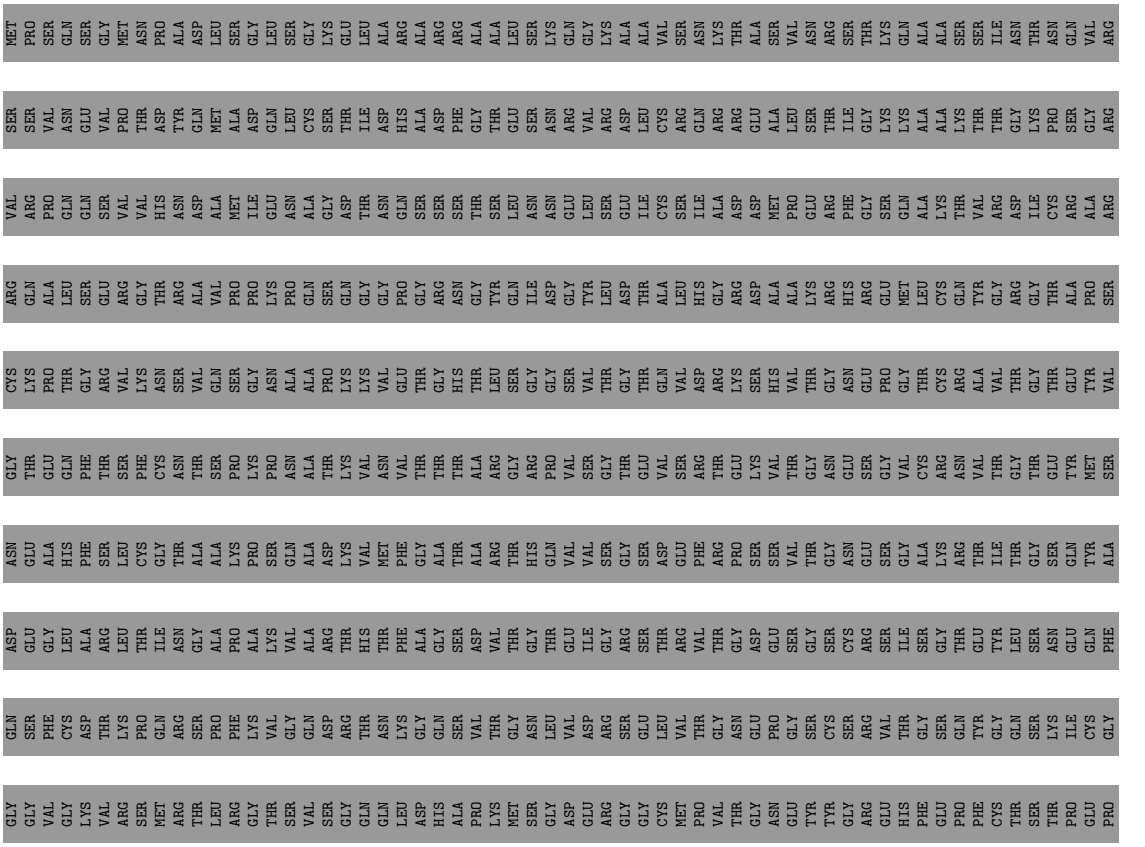


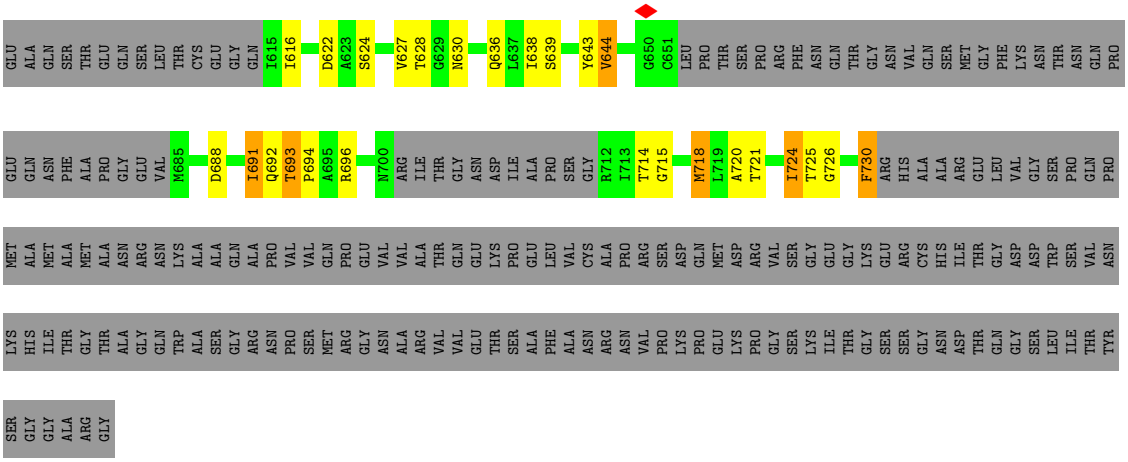


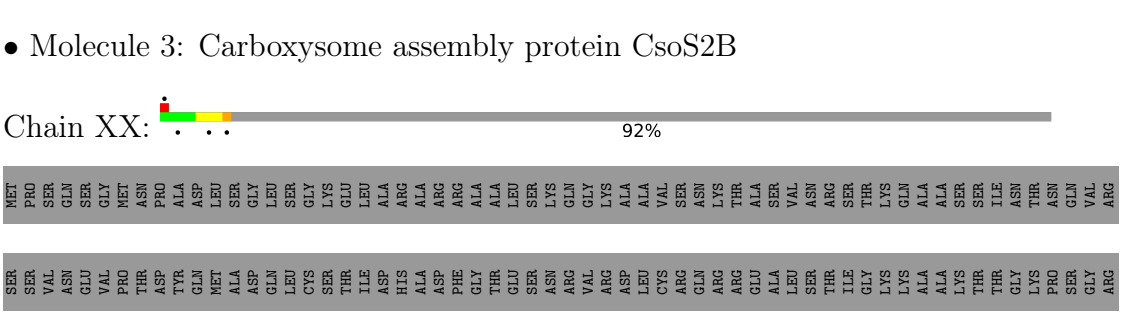


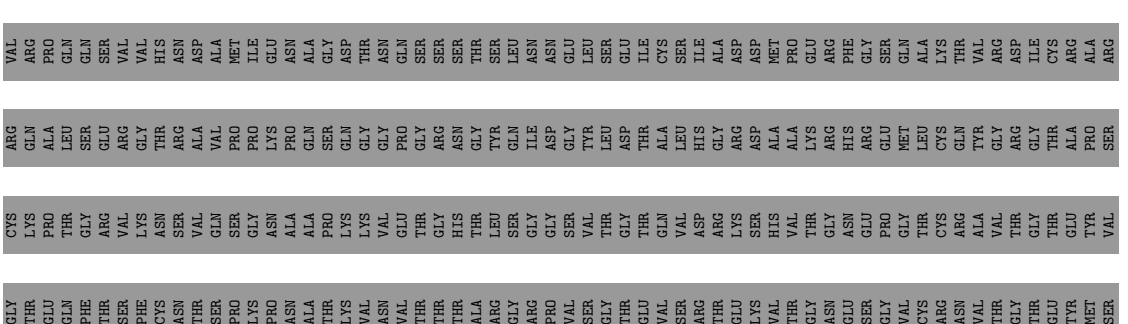
• Molecule 3: Carboxysome assembly protein CsoS2B

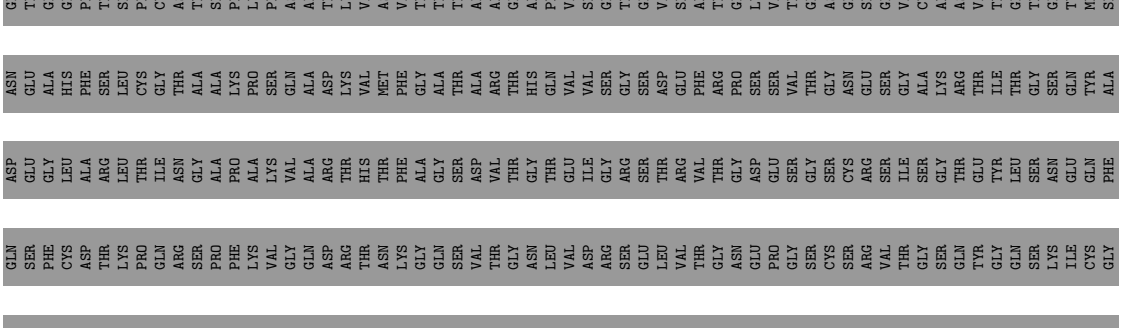
Chain X5: 5% 92%

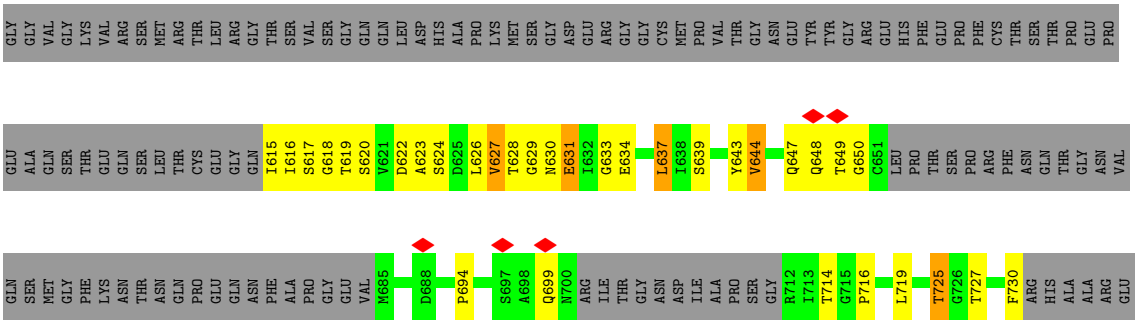






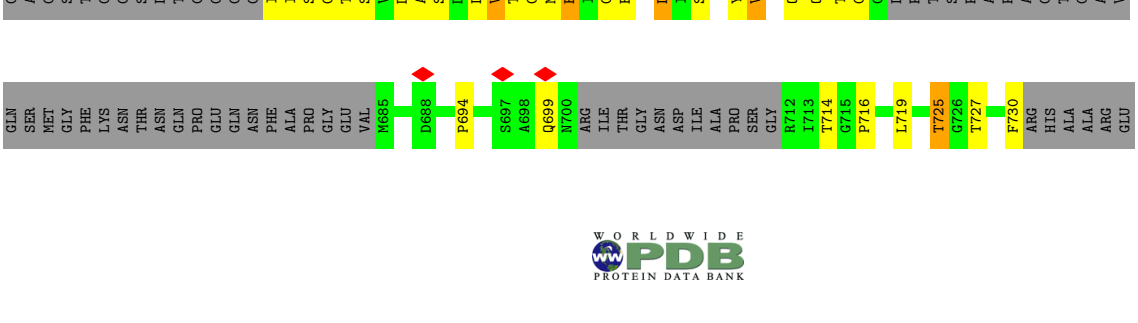


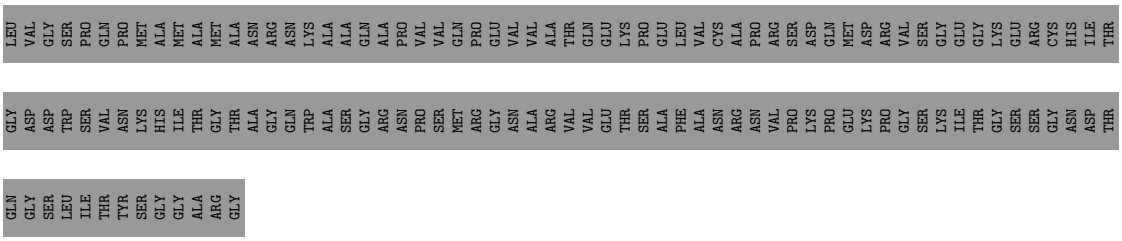




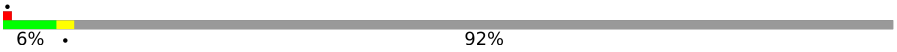
• Molecule 3: Carboxysome assembly protein CsoS2B

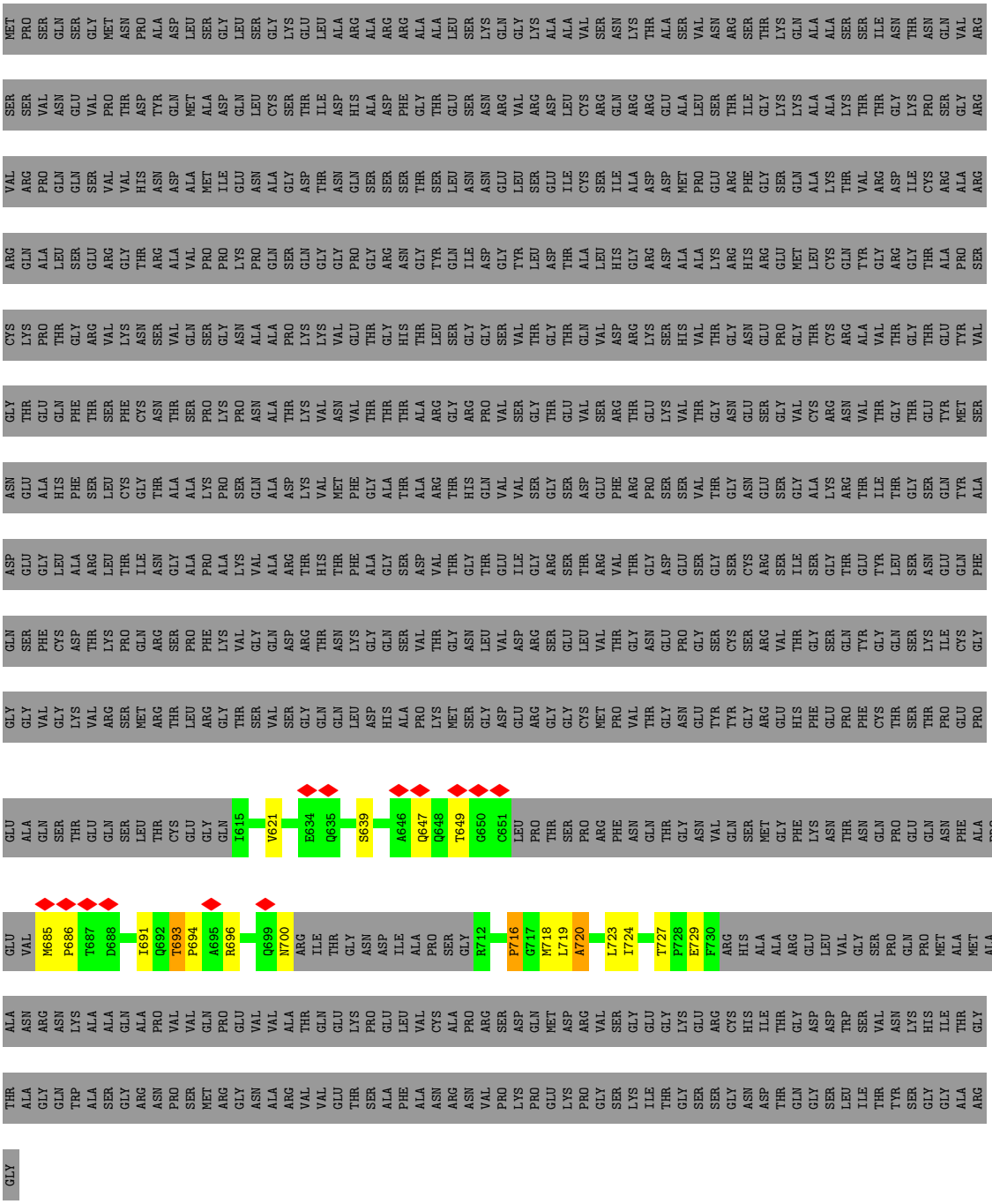
Chain XX:





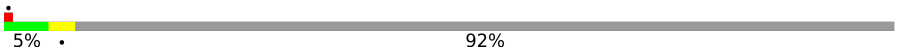
• Molecule 3: Carboxysome assembly protein CsoS2B

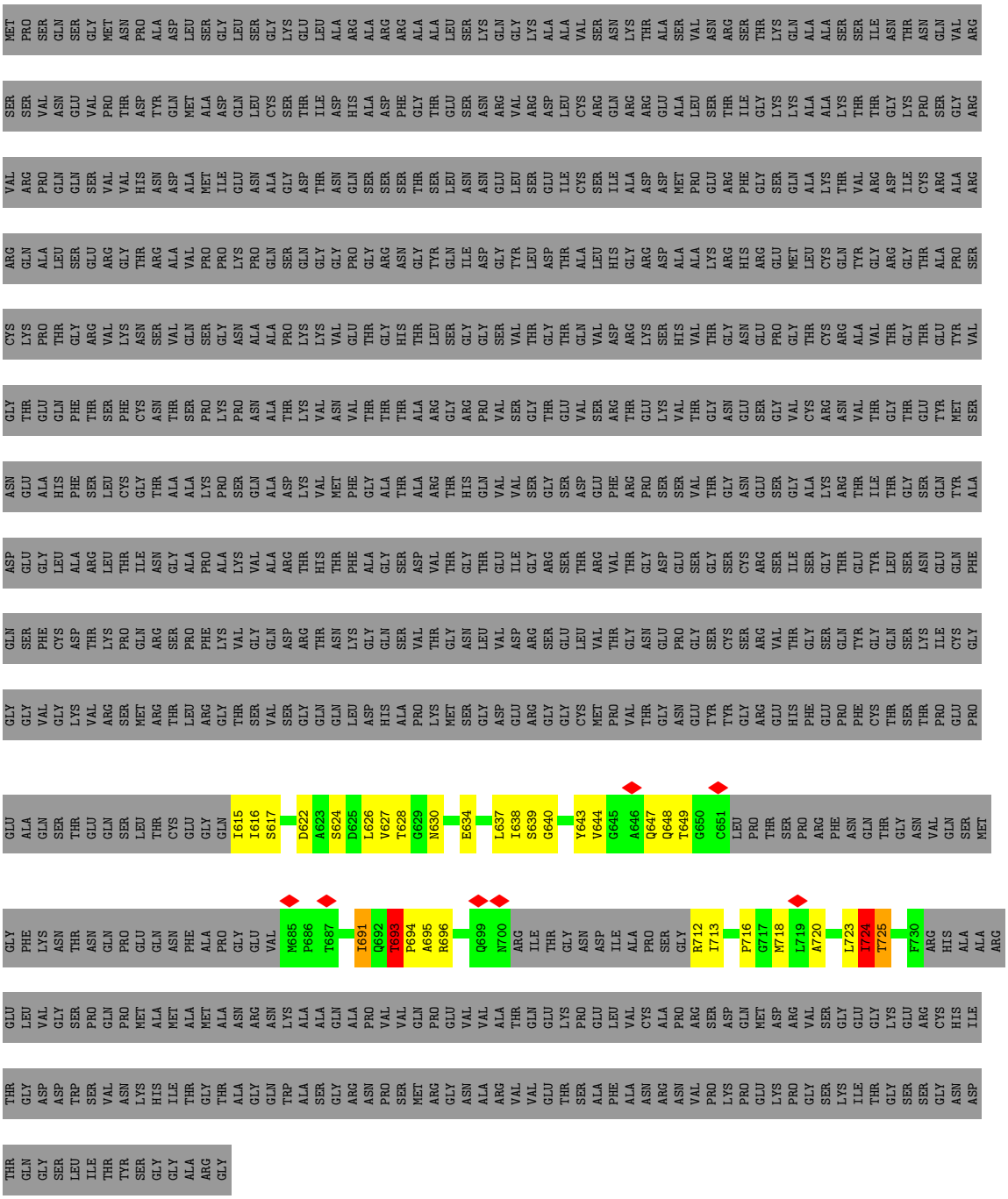
Chain XJ: 



• Molecule 3: Carboxysome assembly protein CsoS2B

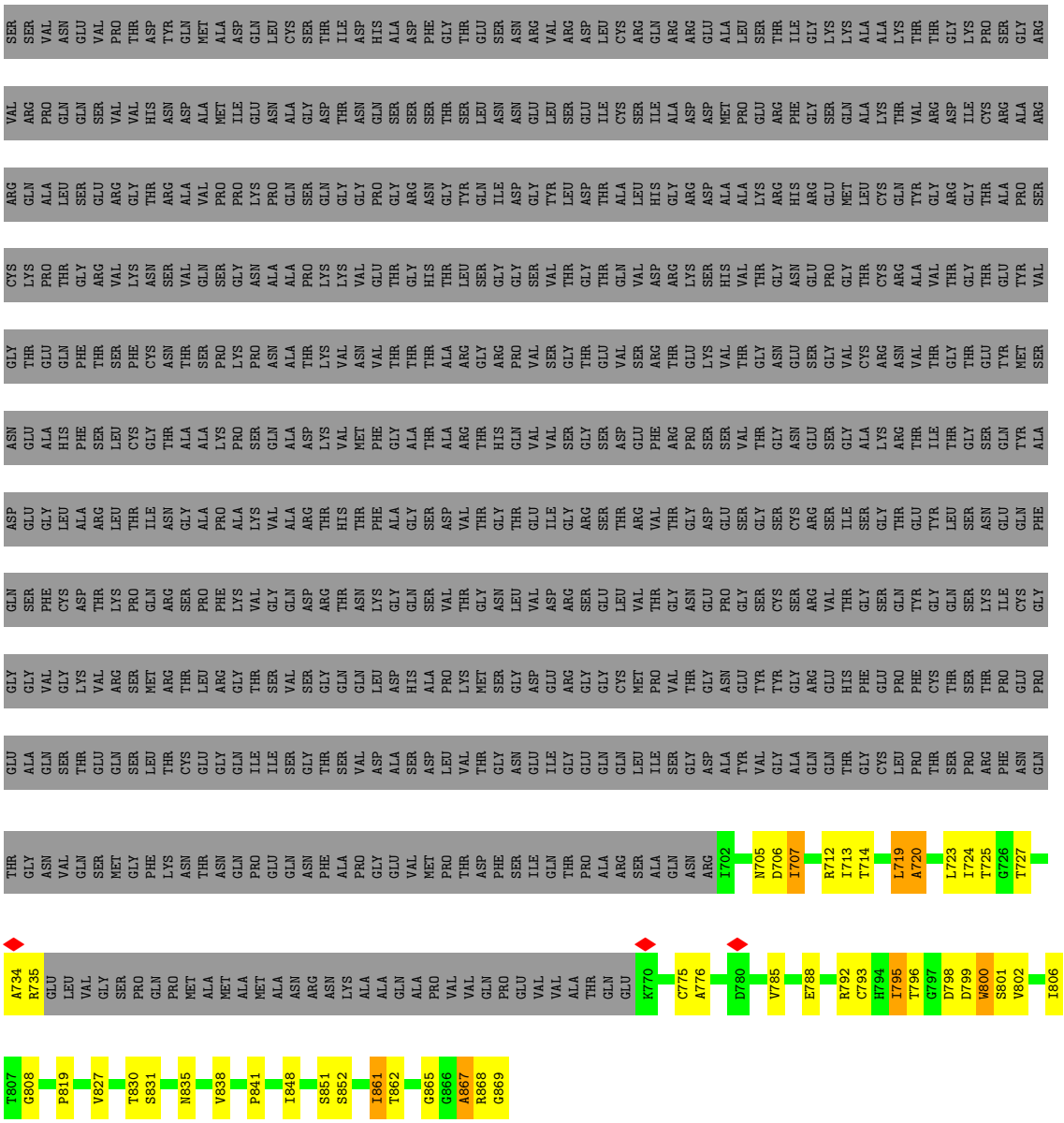
Chain XM:





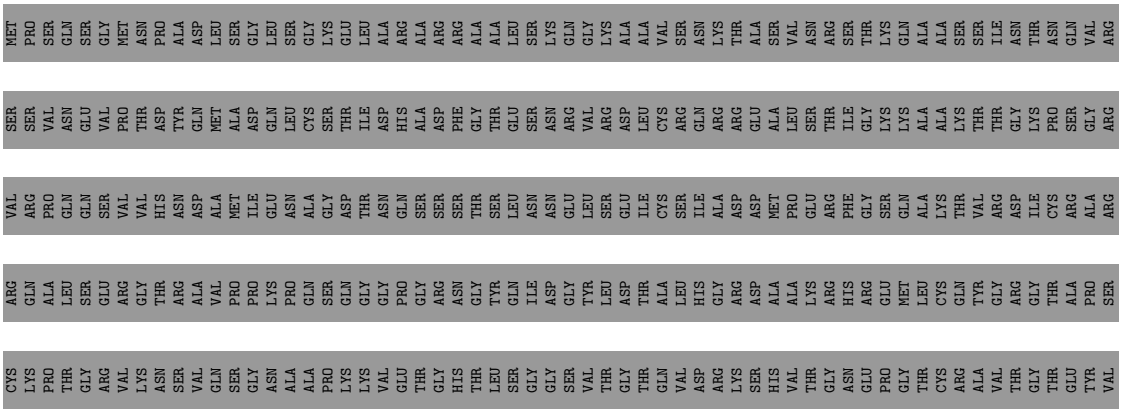
• Molecule 3: Carboxysome assembly protein CsoS2B

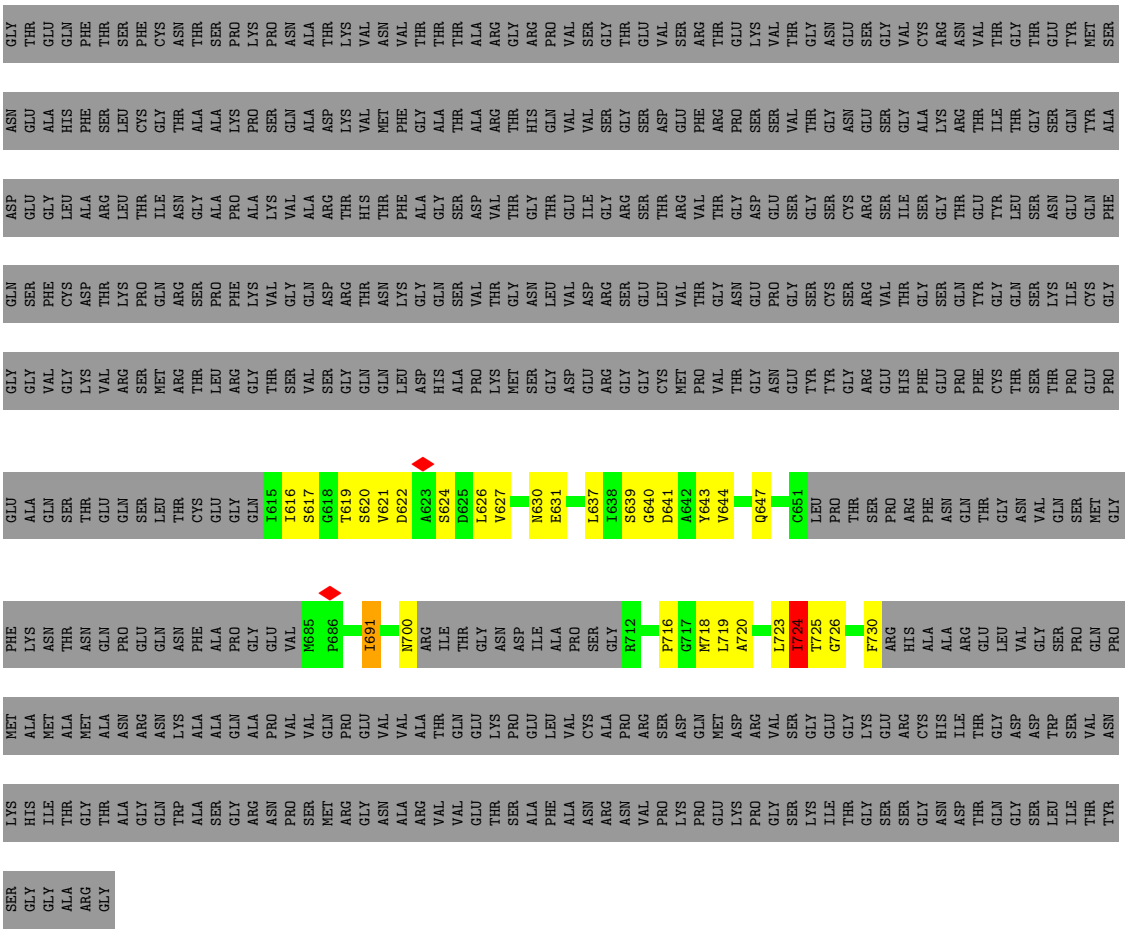
Chain Y3:



• Molecule 3: Carboxysome assembly protein CsoS2B

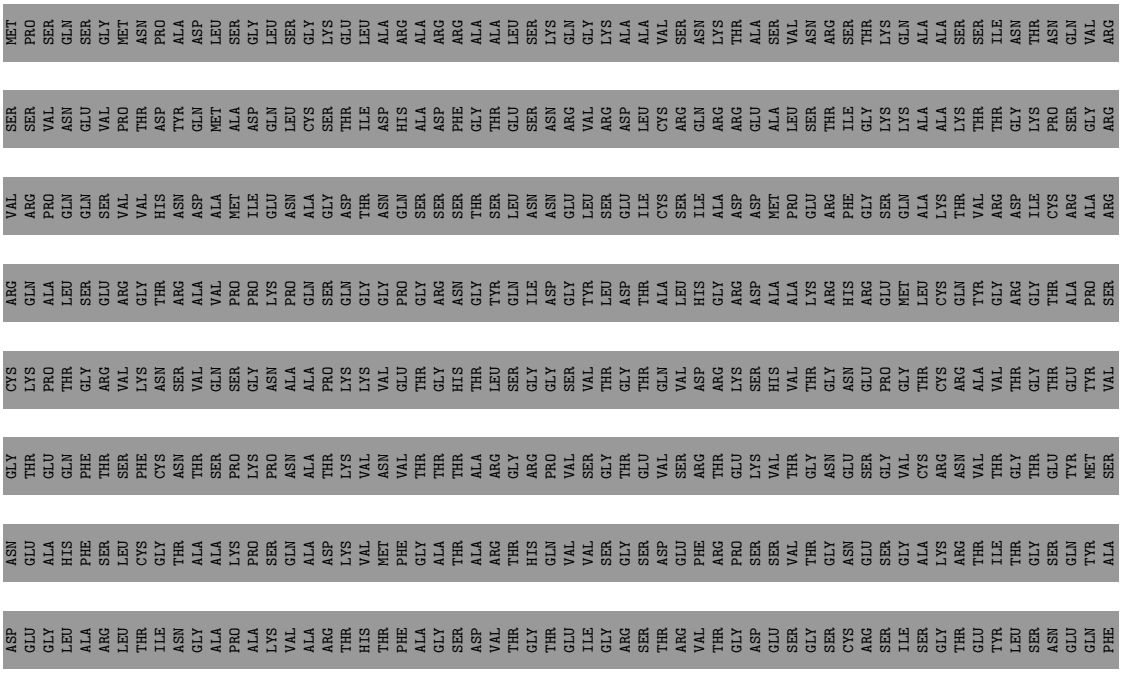
Chain Xa: 5% 92%

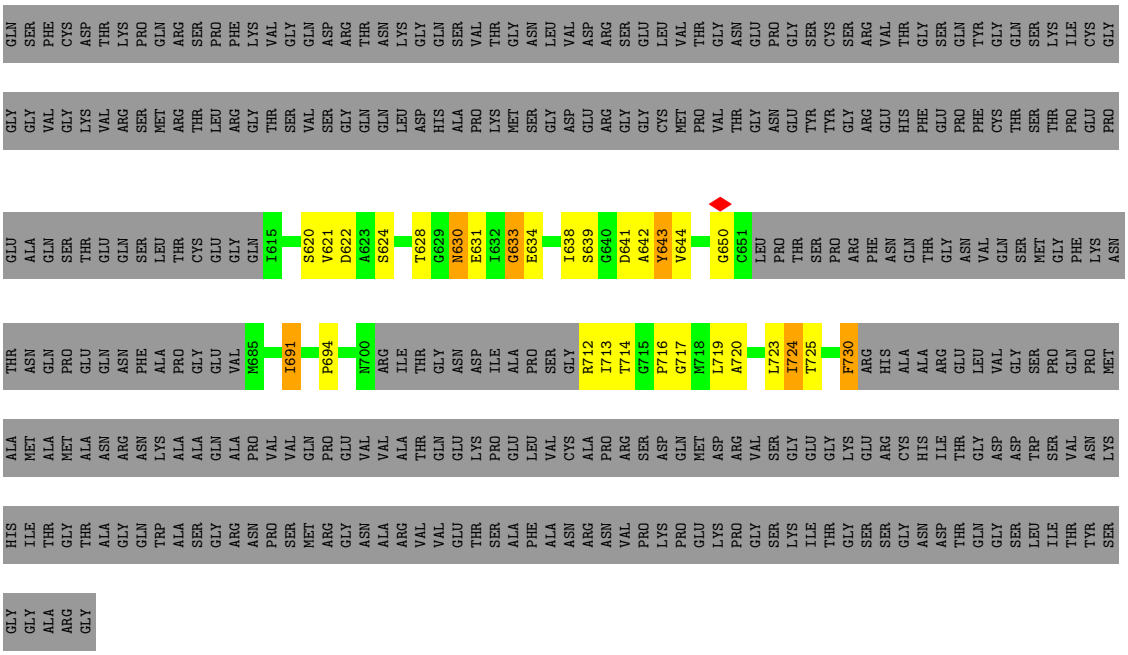




• Molecule 3: Carboxysome assembly protein CsoS2B

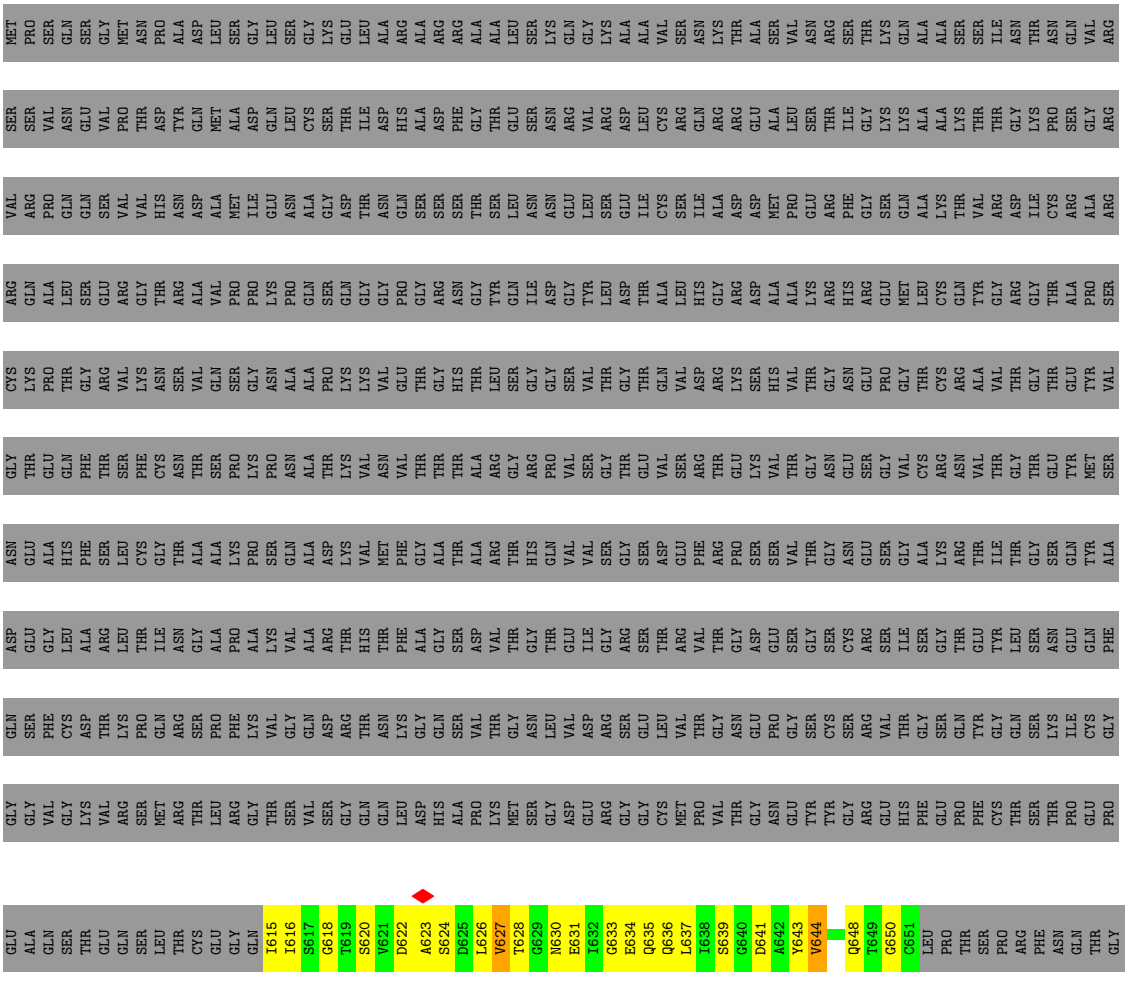
Chain XN: 5% 92%

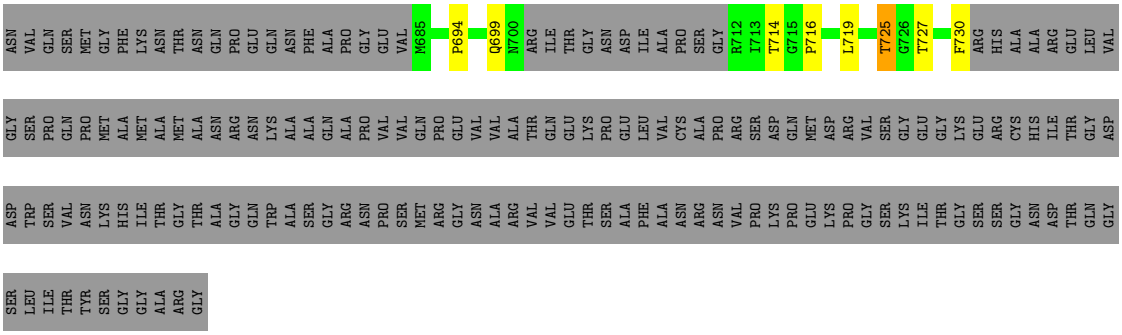




• Molecule 3: Carboxysome assembly protein CsoS2B

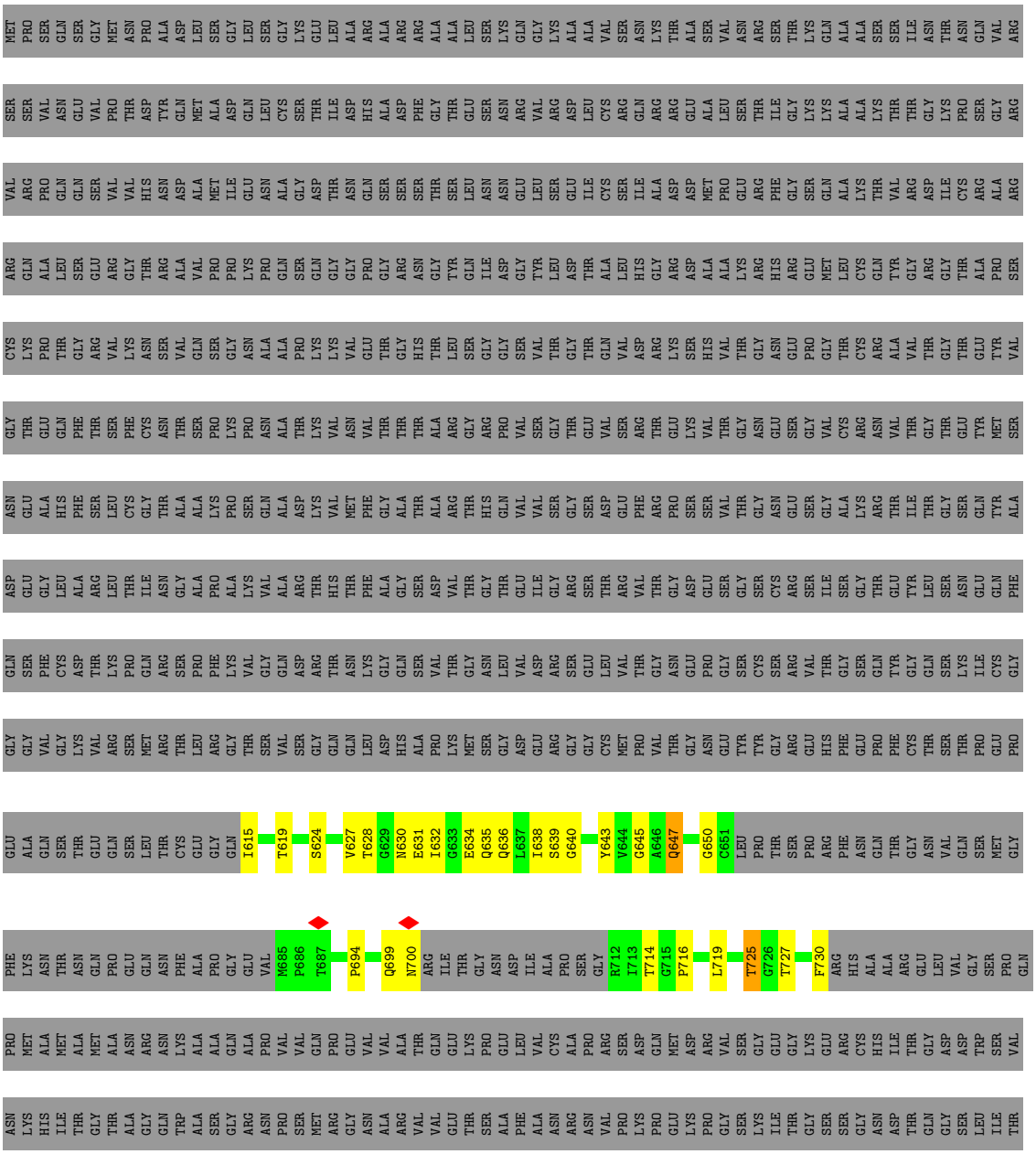
Chain X3: 5% 92%

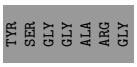




• Molecule 3: Carboxysome assembly protein CsoS2B

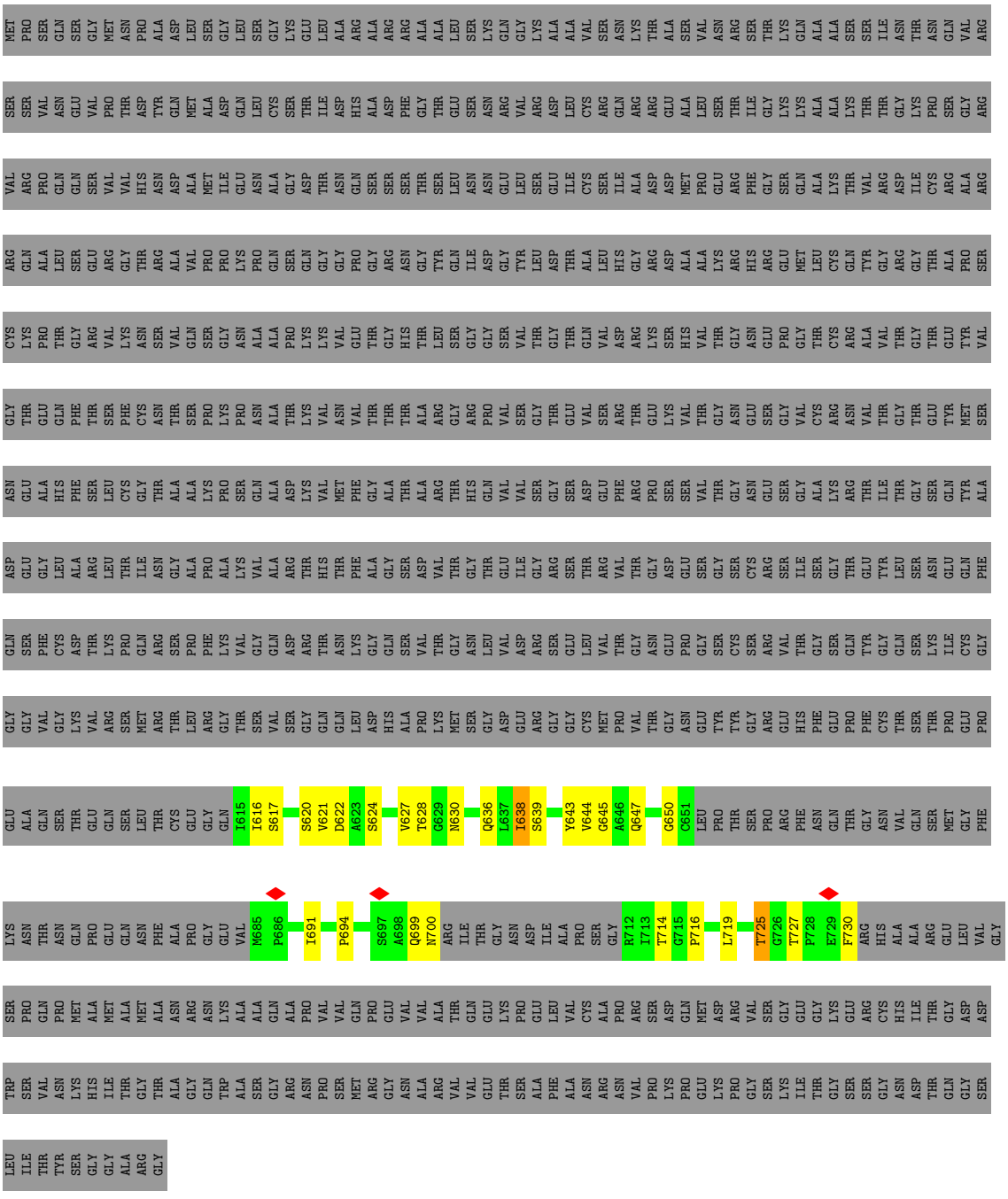
Chain XI: 5% 92%





• Molecule 3: Carboxysome assembly protein CsoS2B

Chain Xm: 5% 92%



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	12775	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.902	Depositor
Minimum map value	-0.344	Depositor
Average map value	0.034	Depositor
Map value standard deviation	0.129	Depositor
Recommended contour level	0.2	Depositor
Map size (Å)	456.61533, 456.61533, 456.61533	wwPDB
Map dimensions	350, 350, 350	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.3046153, 1.3046153, 1.3046153	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A0	1.64	19/662 (2.9%)	1.88	12/897 (1.3%)
1	A1	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	A2	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	A3	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	A4	1.63	19/662 (2.9%)	1.88	12/897 (1.3%)
1	A5	1.63	19/662 (2.9%)	1.88	12/897 (1.3%)
1	A6	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	A7	1.62	18/662 (2.7%)	1.85	11/897 (1.2%)
1	A8	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	A9	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AA	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AB	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AC	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AD	1.64	19/662 (2.9%)	1.87	12/897 (1.3%)
1	AE	1.63	19/662 (2.9%)	1.88	12/897 (1.3%)
1	AF	1.63	19/662 (2.9%)	1.88	12/897 (1.3%)
1	AG	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AH	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AI	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AJ	1.64	19/662 (2.9%)	1.88	12/897 (1.3%)
1	AK	1.63	19/662 (2.9%)	1.88	12/897 (1.3%)
1	AL	1.57	17/662 (2.6%)	1.77	9/897 (1.0%)
1	AM	1.64	19/662 (2.9%)	1.87	12/897 (1.3%)
1	AN	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AO	1.64	19/662 (2.9%)	1.88	12/897 (1.3%)
1	AP	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AQ	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AR	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AS	1.64	19/662 (2.9%)	1.87	12/897 (1.3%)
1	AT	1.63	19/662 (2.9%)	1.88	12/897 (1.3%)
1	AU	1.64	19/662 (2.9%)	1.88	12/897 (1.3%)
1	AV	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AW	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	AX	1.58	17/662 (2.6%)	1.78	11/897 (1.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	AY	1.63	19/662 (2.9%)	1.87	12/897 (1.3%)
1	AZ	1.63	19/662 (2.9%)	1.88	12/897 (1.3%)
1	Aa	1.62	17/662 (2.6%)	1.86	11/897 (1.2%)
1	Ab	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Ac	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Ad	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Ae	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Af	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Ag	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Ah	1.64	19/662 (2.9%)	1.87	12/897 (1.3%)
1	Ai	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Aj	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Ak	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Al	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Am	1.59	17/662 (2.6%)	1.78	9/897 (1.0%)
1	An	1.64	19/662 (2.9%)	1.88	12/897 (1.3%)
1	Ao	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Ap	1.59	16/662 (2.4%)	1.79	10/897 (1.1%)
1	Aq	1.62	18/662 (2.7%)	1.85	11/897 (1.2%)
1	Ar	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	As	1.63	18/662 (2.7%)	1.86	11/897 (1.2%)
1	At	1.63	19/662 (2.9%)	1.87	12/897 (1.3%)
1	Au	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Av	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	Aw	1.64	19/662 (2.9%)	1.87	12/897 (1.3%)
1	Ax	1.62	18/662 (2.7%)	1.86	11/897 (1.2%)
1	B0	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	B1	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	B2	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	B3	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	B4	1.43	9/662 (1.4%)	1.72	8/897 (0.9%)
1	B5	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	B6	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	B7	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	B8	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	B9	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BA	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BB	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BC	1.42	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BD	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BE	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BF	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BG	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	BH	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BI	1.43	9/662 (1.4%)	1.72	8/897 (0.9%)
1	BJ	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BK	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BL	1.47	8/662 (1.2%)	1.77	9/897 (1.0%)
1	BM	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BN	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BO	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BP	1.42	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BQ	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BR	1.42	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BS	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BT	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BU	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BV	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BW	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BX	1.48	8/640 (1.2%)	1.78	8/866 (0.9%)
1	BY	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	BZ	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Ba	1.45	8/662 (1.2%)	1.76	8/897 (0.9%)
1	Bb	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bc	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bd	1.43	8/662 (1.2%)	1.72	7/897 (0.8%)
1	Be	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bf	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bg	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bh	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bi	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bj	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bk	1.43	9/662 (1.4%)	1.72	8/897 (0.9%)
1	Bl	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bm	1.45	8/662 (1.2%)	1.74	8/897 (0.9%)
1	Bn	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bo	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bp	1.44	8/662 (1.2%)	1.75	8/897 (0.9%)
1	Bq	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Br	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bs	1.43	9/662 (1.4%)	1.72	8/897 (0.9%)
1	Bt	1.42	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bu	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bv	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)
1	Bw	1.43	9/662 (1.4%)	1.72	8/897 (0.9%)
1	Bx	1.43	8/662 (1.2%)	1.72	8/897 (0.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	C0	1.29	12/662 (1.8%)	1.46	6/897 (0.7%)
1	C1	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	C2	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	C3	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	C4	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	C5	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	C6	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	C7	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	C8	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	C9	1.29	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CA	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CB	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CC	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CD	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CE	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CF	1.29	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CG	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CH	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CI	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CJ	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CK	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CL	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CM	1.29	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CN	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CO	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CP	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CQ	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CR	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CS	1.30	11/662 (1.7%)	1.45	6/897 (0.7%)
1	CT	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CU	1.29	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CV	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CW	1.29	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CX	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	CY	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	CZ	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Ca	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cb	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	Cc	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cd	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	Ce	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cf	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cg	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Ch	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	Ci	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cj	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Ck	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cl	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cm	1.30	12/662 (1.8%)	1.45	6/897 (0.7%)
1	Cn	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Co	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cp	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	Cq	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	Cr	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cs	1.29	12/662 (1.8%)	1.46	6/897 (0.7%)
1	Ct	1.30	12/662 (1.8%)	1.46	6/897 (0.7%)
1	Cu	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cv	1.29	11/662 (1.7%)	1.46	6/897 (0.7%)
1	Cw	1.30	12/662 (1.8%)	1.45	6/897 (0.7%)
1	Cx	1.30	11/662 (1.7%)	1.46	6/897 (0.7%)
1	D0	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	D1	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	D2	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	D3	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	D4	0.99	0/662	1.35	11/897 (1.2%)
1	D5	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	D6	1.38	10/662 (1.5%)	1.56	8/897 (0.9%)
1	D7	1.04	0/662	1.39	8/897 (0.9%)
1	D8	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	D9	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	DA	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	DB	1.01	0/662	1.34	13/897 (1.4%)
1	DC	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	DD	1.07	1/662 (0.2%)	1.31	9/897 (1.0%)
1	DE	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	DF	0.96	0/640	1.28	8/866 (0.9%)
1	DG	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	DH	0.98	0/662	1.30	8/897 (0.9%)
1	DI	1.27	10/662 (1.5%)	1.47	9/897 (1.0%)
1	DJ	0.91	0/662	1.31	11/897 (1.2%)
1	DK	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	DL	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	DM	1.32	7/662 (1.1%)	1.57	8/897 (0.9%)
1	DN	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	DO	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	DP	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	DQ	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	DR	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	DS	1.15	3/662 (0.5%)	1.49	17/897 (1.9%)
1	DT	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	DU	1.22	6/662 (0.9%)	1.44	11/897 (1.2%)
1	DV	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	DW	1.31	10/640 (1.6%)	1.45	5/866 (0.6%)
1	DX	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	DY	0.96	0/662	1.38	10/897 (1.1%)
1	DZ	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	Da	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	Db	0.95	0/662	1.21	7/897 (0.8%)
1	Dc	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	Dd	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	De	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	Df	1.47	13/662 (2.0%)	1.74	15/897 (1.7%)
1	Dg	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	Dh	1.10	2/662 (0.3%)	1.39	16/897 (1.8%)
1	Di	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	Dj	1.29	9/640 (1.4%)	1.40	6/866 (0.7%)
1	Dk	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	Dl	1.32	11/640 (1.7%)	1.47	7/866 (0.8%)
1	Dm	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	Dn	0.93	0/662	1.28	10/897 (1.1%)
1	Do	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	Dp	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	Dq	1.03	1/662 (0.2%)	1.30	8/897 (0.9%)
1	Dr	1.39	11/662 (1.7%)	1.59	7/897 (0.8%)
1	Ds	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	Dt	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	Du	1.30	10/640 (1.6%)	1.46	5/866 (0.6%)
1	Dv	1.39	11/662 (1.7%)	1.60	7/897 (0.8%)
1	Dw	1.03	0/662	1.37	13/897 (1.4%)
1	Dx	1.39	11/662 (1.7%)	1.60	6/897 (0.7%)
1	E0	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	E1	1.36	7/662 (1.1%)	1.70	6/897 (0.7%)
1	E2	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	E3	1.33	7/662 (1.1%)	1.68	6/897 (0.7%)
1	E4	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	E5	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	E6	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)
1	E7	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	E8	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	E9	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EA	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EB	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EC	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	ED	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EE	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EF	1.00	0/640	1.25	7/866 (0.8%)
1	EG	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EH	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EI	1.32	6/662 (0.9%)	1.65	7/897 (0.8%)
1	EJ	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EK	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EL	1.01	0/662	1.27	4/897 (0.4%)
1	EM	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)
1	EN	1.36	6/662 (0.9%)	1.70	5/897 (0.6%)
1	EO	1.37	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EP	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EQ	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	ER	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	ES	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	ET	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)
1	EU	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EV	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EW	1.33	6/640 (0.9%)	1.64	6/866 (0.7%)
1	EX	1.36	6/662 (0.9%)	1.70	5/897 (0.6%)
1	EY	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	EZ	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ea	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)
1	Eb	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ec	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)
1	Ed	1.37	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ee	1.36	4/662 (0.6%)	1.70	6/897 (0.7%)
1	Ef	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Eg	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Eh	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ei	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ej	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ek	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	El	1.31	6/640 (0.9%)	1.63	5/866 (0.6%)
1	Em	1.32	6/662 (0.9%)	1.67	5/897 (0.6%)
1	En	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Eo	1.36	6/662 (0.9%)	1.70	5/897 (0.6%)
1	Ep	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Eq	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)
1	Er	1.36	5/662 (0.8%)	1.70	6/897 (0.7%)
1	Es	1.37	7/662 (1.1%)	1.70	6/897 (0.7%)
1	Et	1.36	4/662 (0.6%)	1.70	6/897 (0.7%)
1	Eu	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ev	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ew	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	Ex	1.36	6/662 (0.9%)	1.70	6/897 (0.7%)
1	F0	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	F1	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	F2	1.50	10/662 (1.5%)	1.75	9/897 (1.0%)
1	F3	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	F4	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	F5	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	F6	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	F7	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	F8	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	F9	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	FA	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	FB	1.49	11/662 (1.7%)	1.72	8/897 (0.9%)
1	FC	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FD	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	FE	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	FF	1.26	6/640 (0.9%)	1.44	12/866 (1.4%)
1	FG	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	FH	1.48	10/662 (1.5%)	1.71	8/897 (0.9%)
1	FI	1.47	11/662 (1.7%)	1.68	9/897 (1.0%)
1	FJ	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FK	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FL	1.46	10/662 (1.5%)	1.73	9/897 (1.0%)
1	FM	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FN	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FO	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	FP	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FQ	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FR	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FS	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	FT	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	FU	1.48	11/662 (1.7%)	1.74	12/897 (1.3%)
1	FV	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	FW	1.49	10/640 (1.6%)	1.71	9/866 (1.0%)
1	FX	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	FY	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	FZ	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	Fa	1.50	10/662 (1.5%)	1.75	9/897 (1.0%)
1	Fb	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	Fc	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	Fd	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	Fe	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	Ff	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	Fg	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	Fh	1.46	10/662 (1.5%)	1.71	9/897 (1.0%)
1	Fi	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	Fj	1.50	11/640 (1.7%)	1.73	10/866 (1.2%)
1	Fk	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	Fl	1.51	11/662 (1.7%)	1.73	8/897 (0.9%)
1	Fm	1.50	10/662 (1.5%)	1.75	9/897 (1.0%)
1	Fn	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	Fo	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	Fp	1.50	10/662 (1.5%)	1.75	9/897 (1.0%)
1	Fq	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	Fr	1.50	10/662 (1.5%)	1.75	8/897 (0.9%)
1	Fs	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	Ft	1.50	10/662 (1.5%)	1.75	10/897 (1.1%)
1	Fu	1.50	11/662 (1.7%)	1.75	10/897 (1.1%)
1	Fv	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	Fw	1.50	11/662 (1.7%)	1.75	8/897 (0.9%)
1	Fx	1.50	11/662 (1.7%)	1.75	9/897 (1.0%)
1	G0	0.99	0/662	1.33	5/897 (0.6%)
1	G1	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	G2	1.05	0/662	1.32	7/897 (0.8%)
1	G3	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	G4	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	G5	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	G6	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	G7	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	G8	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	G9	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GA	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GB	1.05	0/662	1.31	7/897 (0.8%)
1	GC	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GD	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GE	1.59	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GF	1.00	0/662	1.36	6/897 (0.7%)
1	GG	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GH	1.05	0/662	1.32	7/897 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	GI	1.59	15/662 (2.3%)	1.81	12/897 (1.3%)
1	GJ	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GK	1.59	14/662 (2.1%)	1.86	13/897 (1.4%)
1	GL	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GM	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GN	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GO	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GP	1.60	16/662 (2.4%)	1.86	13/897 (1.4%)
1	GQ	1.05	0/662	1.32	7/897 (0.8%)
1	GR	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GS	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GT	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GU	0.99	0/662	1.33	5/897 (0.6%)
1	GV	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GW	1.03	0/662	1.29	5/897 (0.6%)
1	GX	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GY	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	GZ	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Ga	1.60	16/662 (2.4%)	1.86	14/897 (1.6%)
1	Gb	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gc	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gd	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Ge	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gf	1.05	0/662	1.32	7/897 (0.8%)
1	Gg	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gh	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gi	1.59	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gj	1.00	0/640	1.34	5/866 (0.6%)
1	Gk	1.60	16/662 (2.4%)	1.86	13/897 (1.4%)
1	Gl	1.05	0/640	1.28	5/866 (0.6%)
1	Gm	1.60	15/662 (2.3%)	1.86	14/897 (1.6%)
1	Gn	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Go	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gp	1.60	16/662 (2.4%)	1.86	13/897 (1.4%)
1	Gq	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gr	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gs	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gt	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gu	1.05	0/662	1.31	7/897 (0.8%)
1	Gv	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gw	1.60	15/662 (2.3%)	1.86	13/897 (1.4%)
1	Gx	1.59	15/662 (2.3%)	1.86	13/897 (1.4%)
1	H0	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	H1	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	H2	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	H3	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	H4	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	H5	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	H6	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	H7	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	H8	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	H9	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HA	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HB	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HC	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HD	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HE	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HF	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HG	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HH	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HI	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HJ	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HK	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HL	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HM	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HN	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HO	1.57	14/662 (2.1%)	1.77	10/897 (1.1%)
1	HP	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HQ	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HR	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HS	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HT	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HU	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HV	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HW	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HX	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	HY	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	HZ	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Ha	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hb	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	Hc	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	Hd	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	He	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hf	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	Hg	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	Hh	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Hi	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hj	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hk	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hl	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	Hm	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hn	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Ho	1.56	15/662 (2.3%)	1.77	11/897 (1.2%)
1	Hp	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hq	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hr	1.57	15/662 (2.3%)	1.77	9/897 (1.0%)
1	Hs	1.57	14/662 (2.1%)	1.77	11/897 (1.2%)
1	Ht	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hu	1.57	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hv	1.56	15/662 (2.3%)	1.77	9/897 (1.0%)
1	Hw	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	Hx	1.56	15/662 (2.3%)	1.77	10/897 (1.1%)
1	I0	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	I1	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	I2	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	I3	1.37	11/662 (1.7%)	1.56	4/897 (0.4%)
1	I4	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	I5	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	I6	1.37	10/662 (1.5%)	1.56	4/897 (0.4%)
1	I7	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	I8	1.37	11/662 (1.7%)	1.56	4/897 (0.4%)
1	I9	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IA	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IB	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	IC	1.37	11/662 (1.7%)	1.56	4/897 (0.4%)
1	ID	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IE	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IF	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	IG	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IH	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	II	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	IJ	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	IK	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IL	1.37	10/662 (1.5%)	1.56	4/897 (0.4%)
1	IM	1.37	11/662 (1.7%)	1.56	2/897 (0.2%)
1	IN	1.37	11/662 (1.7%)	1.56	4/897 (0.4%)
1	IO	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	IP	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IQ	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	IR	1.37	11/662 (1.7%)	1.56	4/897 (0.4%)
1	IS	1.37	13/662 (2.0%)	1.56	3/897 (0.3%)
1	IT	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IU	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	IV	1.37	10/662 (1.5%)	1.56	4/897 (0.4%)
1	IW	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	IX	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	IY	1.37	12/662 (1.8%)	1.56	2/897 (0.2%)
1	IZ	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	Ia	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	Ib	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	Ic	1.37	11/662 (1.7%)	1.56	4/897 (0.4%)
1	Id	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	Ie	1.37	10/662 (1.5%)	1.56	4/897 (0.4%)
1	If	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	Ig	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	Ih	1.37	9/662 (1.4%)	1.56	3/897 (0.3%)
1	Ii	1.37	10/662 (1.5%)	1.57	3/897 (0.3%)
1	Ij	1.37	11/662 (1.7%)	1.56	3/897 (0.3%)
1	Ik	1.37	10/662 (1.5%)	1.57	3/897 (0.3%)
1	Il	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	Im	1.37	10/662 (1.5%)	1.57	3/897 (0.3%)
1	In	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	Io	1.38	11/662 (1.7%)	1.57	3/897 (0.3%)
1	Ip	1.37	10/662 (1.5%)	1.56	4/897 (0.4%)
1	Iq	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	Ir	1.37	12/662 (1.8%)	1.56	4/897 (0.4%)
1	Is	1.37	10/662 (1.5%)	1.56	2/897 (0.2%)
1	It	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	Iu	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	Iv	1.37	10/662 (1.5%)	1.56	3/897 (0.3%)
1	Iw	1.38	10/662 (1.5%)	1.57	3/897 (0.3%)
1	Ix	1.37	10/662 (1.5%)	1.57	3/897 (0.3%)
1	J0	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	J1	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	J2	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	J3	1.33	6/662 (0.9%)	1.59	4/897 (0.4%)
1	J4	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	J5	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	J6	1.35	6/662 (0.9%)	1.61	5/897 (0.6%)
1	J7	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	J8	1.42	6/662 (0.9%)	1.71	2/897 (0.2%)
1	J9	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	JA	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	JB	1.42	6/662 (0.9%)	1.71	3/897 (0.3%)
1	JC	1.37	6/662 (0.9%)	1.65	5/897 (0.6%)
1	JD	1.42	6/662 (0.9%)	1.71	2/897 (0.2%)
1	JE	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	JF	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	JG	1.42	6/662 (0.9%)	1.71	2/897 (0.2%)
1	JH	1.42	6/662 (0.9%)	1.71	3/897 (0.3%)
1	JI	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JJ	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JK	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JL	1.42	6/662 (0.9%)	1.71	2/897 (0.2%)
1	JM	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JN	1.42	5/662 (0.8%)	1.71	2/897 (0.2%)
1	JO	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JP	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	JQ	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JR	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JS	1.42	6/662 (0.9%)	1.71	2/897 (0.2%)
1	JT	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	JU	1.45	7/662 (1.1%)	1.72	4/897 (0.4%)
1	JV	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JW	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JX	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	JY	1.41	6/662 (0.9%)	1.66	3/897 (0.3%)
1	JZ	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	Ja	1.42	6/662 (0.9%)	1.71	3/897 (0.3%)
1	Jb	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	Jc	1.42	6/662 (0.9%)	1.71	2/897 (0.2%)
1	Jd	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	Je	1.42	5/662 (0.8%)	1.70	2/897 (0.2%)
1	Jf	1.42	6/662 (0.9%)	1.71	3/897 (0.3%)
1	Jg	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	Jh	1.42	6/662 (0.9%)	1.71	3/897 (0.3%)
1	Ji	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	Jj	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	Jk	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	Jl	1.42	6/662 (0.9%)	1.71	3/897 (0.3%)
1	Jm	1.42	5/662 (0.8%)	1.71	3/897 (0.3%)
1	Jn	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	Jo	1.42	6/662 (0.9%)	1.70	2/897 (0.2%)
1	Jp	1.42	6/662 (0.9%)	1.71	3/897 (0.3%)
1	Jq	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Jr	1.42	5/662 (0.8%)	1.71	2/897 (0.2%)
1	Js	1.42	6/662 (0.9%)	1.70	3/897 (0.3%)
1	Jt	1.42	5/662 (0.8%)	1.71	2/897 (0.2%)
1	Ju	1.42	6/662 (0.9%)	1.71	3/897 (0.3%)
1	Jv	0.98	1/662 (0.2%)	1.33	5/897 (0.6%)
1	Jw	1.42	6/662 (0.9%)	1.71	2/897 (0.2%)
1	Jx	1.42	6/662 (0.9%)	1.71	2/897 (0.2%)
1	K0	1.34	9/662 (1.4%)	1.53	8/897 (0.9%)
1	K1	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	K2	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	K3	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	K4	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	K5	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	K6	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	K7	1.33	8/662 (1.2%)	1.53	9/897 (1.0%)
1	K8	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	K9	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KA	1.33	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KB	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	KC	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KD	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KE	1.33	9/662 (1.4%)	1.53	8/897 (0.9%)
1	KF	1.34	9/662 (1.4%)	1.53	8/897 (0.9%)
1	KG	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KH	1.33	9/662 (1.4%)	1.53	9/897 (1.0%)
1	KI	1.33	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KJ	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KK	1.34	8/662 (1.2%)	1.53	8/897 (0.9%)
1	KL	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KM	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KN	1.34	8/662 (1.2%)	1.53	8/897 (0.9%)
1	KO	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KP	1.33	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KQ	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	KR	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KS	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KT	1.33	9/662 (1.4%)	1.53	8/897 (0.9%)
1	KU	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	KV	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KW	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	KX	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KY	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	KZ	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Ka	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kb	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	Kc	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kd	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Ke	1.33	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kf	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	Kg	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kh	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Ki	1.33	9/662 (1.4%)	1.53	9/897 (1.0%)
1	Kj	1.34	9/662 (1.4%)	1.53	8/897 (0.9%)
1	Kk	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kl	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	Km	1.33	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kn	1.33	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Ko	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	Kp	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kq	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kr	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Ks	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kt	1.33	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Ku	1.34	9/662 (1.4%)	1.53	9/897 (1.0%)
1	Kv	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kw	1.34	8/662 (1.2%)	1.53	9/897 (1.0%)
1	Kx	1.33	9/662 (1.4%)	1.53	8/897 (0.9%)
1	L0	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	L1	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	L2	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	L3	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	L4	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	L5	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	L6	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	L7	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	L8	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	L9	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LA	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LB	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LC	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LD	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LE	1.23	6/662 (0.9%)	1.56	10/897 (1.1%)
1	LF	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LG	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LH	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LI	1.23	6/662 (0.9%)	1.54	11/897 (1.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	LJ	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LK	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LL	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LM	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LN	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LO	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LP	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LQ	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LR	1.23	5/662 (0.8%)	1.57	11/897 (1.2%)
1	LS	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LT	1.23	6/662 (0.9%)	1.56	10/897 (1.1%)
1	LU	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LV	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	LW	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LX	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LY	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	LZ	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	La	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Lb	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Lc	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Ld	1.23	6/662 (0.9%)	1.57	10/897 (1.1%)
1	Le	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	Lf	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	Lg	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Lh	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Li	1.24	6/662 (0.9%)	1.56	11/897 (1.2%)
1	Lj	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	Lk	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Ll	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Lm	0.98	1/662 (0.2%)	1.25	10/897 (1.1%)
1	Ln	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Lo	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	Lp	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	Lq	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Lr	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Ls	1.23	6/662 (0.9%)	1.57	10/897 (1.1%)
1	Lt	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	Lu	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Lv	1.23	6/662 (0.9%)	1.57	11/897 (1.2%)
1	Lw	1.23	6/662 (0.9%)	1.56	11/897 (1.2%)
1	Lx	1.24	6/662 (0.9%)	1.56	11/897 (1.2%)
1	M0	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	M1	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	M2	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	M3	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	M4	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	M5	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	M6	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	M7	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	M8	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	M9	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MA	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MB	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MC	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	MD	1.07	6/662 (0.9%)	1.21	2/897 (0.2%)
1	ME	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	MF	1.07	4/662 (0.6%)	1.24	6/897 (0.7%)
1	MG	1.07	6/662 (0.9%)	1.21	2/897 (0.2%)
1	MH	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	MI	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	MJ	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	MK	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	ML	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MM	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MN	1.07	6/662 (0.9%)	1.21	2/897 (0.2%)
1	MO	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MP	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	MQ	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MR	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MS	1.07	6/662 (0.9%)	1.21	2/897 (0.2%)
1	MT	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	MU	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	MV	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	MW	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	MX	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	MY	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	MZ	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	Ma	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	Mb	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	Mc	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	Md	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	Me	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	Mf	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	Mg	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	Mh	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	Mi	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	Mj	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	Mk	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	Ml	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	Mm	1.09	5/662 (0.8%)	1.26	6/897 (0.7%)
1	Mn	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	Mo	1.08	6/662 (0.9%)	1.21	3/897 (0.3%)
1	Mp	1.08	6/662 (0.9%)	1.21	3/897 (0.3%)
1	Mq	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	Mr	1.07	6/662 (0.9%)	1.21	2/897 (0.2%)
1	Ms	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	Mt	1.07	6/662 (0.9%)	1.23	3/897 (0.3%)
1	Mu	1.07	6/662 (0.9%)	1.21	3/897 (0.3%)
1	Mv	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	Mw	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	Mx	1.07	6/662 (0.9%)	1.23	4/897 (0.4%)
1	N0	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	N1	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	N2	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	N3	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	N4	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	N5	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	N6	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	N7	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	N8	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	N9	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NA	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NB	1.35	6/662 (0.9%)	1.67	6/897 (0.7%)
1	NC	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	ND	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NE	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NF	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NG	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NH	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NI	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NJ	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NK	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NL	1.36	5/662 (0.8%)	1.65	6/897 (0.7%)
1	NM	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NN	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NO	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NP	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NQ	1.35	6/662 (0.9%)	1.67	6/897 (0.7%)
1	NR	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	NS	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NT	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NU	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NV	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NW	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NX	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	NY	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	NZ	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Na	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nb	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nc	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nd	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Ne	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nf	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	Ng	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nh	1.35	5/662 (0.8%)	1.67	7/897 (0.8%)
1	Ni	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nj	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nk	1.35	5/662 (0.8%)	1.67	7/897 (0.8%)
1	Nl	1.35	4/662 (0.6%)	1.67	7/897 (0.8%)
1	Nm	1.35	4/662 (0.6%)	1.67	7/897 (0.8%)
1	Nn	1.35	4/662 (0.6%)	1.66	6/897 (0.7%)
1	No	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Np	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nq	1.35	5/662 (0.8%)	1.67	7/897 (0.8%)
1	Nr	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Ns	1.35	5/662 (0.8%)	1.67	7/897 (0.8%)
1	Nt	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	Nu	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nv	1.35	6/662 (0.9%)	1.67	7/897 (0.8%)
1	Nw	1.35	5/662 (0.8%)	1.67	6/897 (0.7%)
1	Nx	1.35	4/662 (0.6%)	1.67	6/897 (0.7%)
1	O0	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	O1	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	O2	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	O3	1.16	5/662 (0.8%)	1.40	7/897 (0.8%)
1	O4	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	O5	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	O6	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	O7	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	O8	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	O9	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	OA	1.16	5/662 (0.8%)	1.40	7/897 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	OB	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OC	1.16	6/662 (0.9%)	1.40	7/897 (0.8%)
1	OD	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	OE	1.17	6/662 (0.9%)	1.40	7/897 (0.8%)
1	OF	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OG	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OH	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OI	1.16	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OJ	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	OK	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OL	1.16	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OM	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	ON	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OO	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	OP	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OQ	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OR	1.16	5/662 (0.8%)	1.41	7/897 (0.8%)
1	OS	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	OT	1.17	6/662 (0.9%)	1.40	7/897 (0.8%)
1	OU	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OV	1.16	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OW	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	OX	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	OY	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	OZ	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Oa	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Ob	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Oc	1.16	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Od	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	Oe	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Of	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Og	1.16	6/662 (0.9%)	1.41	7/897 (0.8%)
1	Oh	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Oi	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	Oj	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Ok	1.16	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Ol	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	Om	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	On	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Oo	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Op	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Oq	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Or	1.16	5/662 (0.8%)	1.40	7/897 (0.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Os	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	Ot	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Ou	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
1	Ov	1.17	6/662 (0.9%)	1.41	7/897 (0.8%)
1	Ow	1.17	5/662 (0.8%)	1.40	7/897 (0.8%)
1	Ox	1.17	5/662 (0.8%)	1.41	7/897 (0.8%)
2	P0	1.05	2/620 (0.3%)	1.52	8/843 (0.9%)
2	P1	1.02	2/620 (0.3%)	1.45	6/843 (0.7%)
2	P2	1.04	2/620 (0.3%)	1.46	6/843 (0.7%)
2	P3	1.05	2/620 (0.3%)	1.44	5/843 (0.6%)
2	P4	1.03	2/620 (0.3%)	1.46	6/843 (0.7%)
2	P5	1.04	2/620 (0.3%)	1.45	6/843 (0.7%)
2	P6	1.02	2/620 (0.3%)	1.47	6/843 (0.7%)
2	P7	1.02	2/620 (0.3%)	1.45	5/843 (0.6%)
2	P8	1.02	2/620 (0.3%)	1.51	8/843 (0.9%)
2	P9	1.01	2/620 (0.3%)	1.55	9/843 (1.1%)
2	PA	1.05	2/620 (0.3%)	1.46	7/843 (0.8%)
2	PB	1.01	2/620 (0.3%)	1.49	6/843 (0.7%)
2	PC	1.03	2/620 (0.3%)	1.46	7/843 (0.8%)
2	PD	0.74	0/620	1.21	5/843 (0.6%)
2	PE	1.05	2/620 (0.3%)	1.48	7/843 (0.8%)
2	PF	1.05	2/620 (0.3%)	1.52	8/843 (0.9%)
2	PG	1.02	2/620 (0.3%)	1.44	6/843 (0.7%)
2	PH	1.03	2/620 (0.3%)	1.46	6/843 (0.7%)
2	PI	1.05	2/620 (0.3%)	1.44	5/843 (0.6%)
2	PJ	1.03	2/620 (0.3%)	1.46	5/843 (0.6%)
2	PK	1.04	2/620 (0.3%)	1.45	6/843 (0.7%)
2	PL	1.02	2/620 (0.3%)	1.47	6/843 (0.7%)
2	PM	1.02	2/620 (0.3%)	1.45	5/843 (0.6%)
2	PN	1.02	2/620 (0.3%)	1.51	8/843 (0.9%)
2	PO	1.01	2/620 (0.3%)	1.55	9/843 (1.1%)
2	PP	1.05	2/620 (0.3%)	1.46	6/843 (0.7%)
2	PQ	1.01	2/620 (0.3%)	1.48	6/843 (0.7%)
2	PR	1.02	2/620 (0.3%)	1.46	7/843 (0.8%)
2	PS	0.74	0/620	1.21	5/843 (0.6%)
2	PT	1.05	2/620 (0.3%)	1.48	7/843 (0.8%)
2	PU	1.05	2/620 (0.3%)	1.52	8/843 (0.9%)
2	PV	1.03	2/620 (0.3%)	1.45	6/843 (0.7%)
2	PW	1.03	2/620 (0.3%)	1.46	6/843 (0.7%)
2	PX	1.05	2/620 (0.3%)	1.43	5/843 (0.6%)
2	PY	1.03	2/620 (0.3%)	1.46	5/843 (0.6%)
2	PZ	1.04	2/620 (0.3%)	1.45	6/843 (0.7%)
2	Pa	1.02	2/620 (0.3%)	1.47	6/843 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	Pb	1.02	2/620 (0.3%)	1.45	5/843 (0.6%)
2	Pc	1.01	2/620 (0.3%)	1.51	8/843 (0.9%)
2	Pd	1.01	2/620 (0.3%)	1.55	10/843 (1.2%)
2	Pe	1.05	2/620 (0.3%)	1.46	7/843 (0.8%)
2	Pf	1.01	2/620 (0.3%)	1.49	6/843 (0.7%)
2	Pg	1.03	2/620 (0.3%)	1.46	7/843 (0.8%)
2	Ph	0.74	0/620	1.21	4/843 (0.5%)
2	Pi	1.05	2/620 (0.3%)	1.48	7/843 (0.8%)
2	Pj	1.05	2/620 (0.3%)	1.52	8/843 (0.9%)
2	Pk	1.03	2/620 (0.3%)	1.45	6/843 (0.7%)
2	Pl	1.04	2/620 (0.3%)	1.46	6/843 (0.7%)
2	Pm	1.05	2/620 (0.3%)	1.44	5/843 (0.6%)
2	Pn	1.03	2/620 (0.3%)	1.46	5/843 (0.6%)
2	Po	1.04	2/620 (0.3%)	1.45	6/843 (0.7%)
2	Pp	1.02	2/620 (0.3%)	1.47	6/843 (0.7%)
2	Pq	1.02	2/620 (0.3%)	1.45	5/843 (0.6%)
2	Pr	1.01	2/620 (0.3%)	1.51	8/843 (0.9%)
2	Ps	1.01	2/620 (0.3%)	1.55	9/843 (1.1%)
2	Pt	1.05	2/620 (0.3%)	1.46	7/843 (0.8%)
2	Pu	1.01	2/620 (0.3%)	1.49	6/843 (0.7%)
2	Pv	1.03	2/620 (0.3%)	1.46	7/843 (0.8%)
2	Pw	0.74	0/620	1.21	4/843 (0.5%)
2	Px	1.05	2/620 (0.3%)	1.48	7/843 (0.8%)
3	X0	0.65	0/517	1.16	6/700 (0.9%)
3	X1	0.66	0/517	1.21	7/700 (1.0%)
3	X2	0.63	0/517	1.22	7/700 (1.0%)
3	X3	0.65	0/517	1.22	6/700 (0.9%)
3	X4	0.62	0/517	1.15	4/700 (0.6%)
3	X5	0.64	0/517	1.12	5/700 (0.7%)
3	X6	0.60	0/517	1.27	7/700 (1.0%)
3	X7	0.62	0/517	1.11	4/700 (0.6%)
3	X8	0.64	0/517	1.26	5/700 (0.7%)
3	X9	0.66	0/517	1.24	7/700 (1.0%)
3	XA	0.63	0/517	1.09	4/700 (0.6%)
3	XB	0.89	0/517	1.47	8/700 (1.1%)
3	XC	0.86	0/517	1.49	6/700 (0.9%)
3	XD	0.84	0/517	1.49	8/700 (1.1%)
3	XE	0.92	0/517	1.61	9/700 (1.3%)
3	XF	0.65	0/517	1.16	6/700 (0.9%)
3	XG	0.66	0/517	1.21	7/700 (1.0%)
3	XH	0.63	0/517	1.22	7/700 (1.0%)
3	XI	0.76	1/517 (0.2%)	1.33	11/700 (1.6%)
3	XJ	0.61	0/517	1.13	4/700 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	XK	0.65	0/517	1.09	5/700 (0.7%)
3	XL	0.60	0/517	1.27	7/700 (1.0%)
3	XM	0.60	0/517	1.19	6/700 (0.9%)
3	XN	0.63	0/517	1.22	6/700 (0.9%)
3	XO	0.66	0/517	1.24	6/700 (0.9%)
3	XP	0.63	0/517	1.09	4/700 (0.6%)
3	XQ	0.88	0/517	1.47	8/700 (1.1%)
3	XR	0.86	0/517	1.49	6/700 (0.9%)
3	XS	0.84	0/517	1.51	6/700 (0.9%)
3	XT	0.92	0/517	1.62	9/700 (1.3%)
3	XU	0.65	0/517	1.16	6/700 (0.9%)
3	XV	0.66	0/517	1.21	7/700 (1.0%)
3	XW	0.63	0/517	1.22	7/700 (1.0%)
3	XX	0.64	0/517	1.32	7/700 (1.0%)
3	XY	0.61	0/517	1.20	5/700 (0.7%)
3	XZ	0.65	0/517	1.09	5/700 (0.7%)
3	Xa	0.58	0/517	1.27	7/700 (1.0%)
3	Xb	0.62	0/517	1.12	4/700 (0.6%)
3	Xc	0.64	0/517	1.28	6/700 (0.9%)
3	Xd	0.66	0/517	1.24	6/700 (0.9%)
3	Xe	0.63	0/517	1.09	4/700 (0.6%)
3	Xf	0.88	0/517	1.47	8/700 (1.1%)
3	Xg	0.86	0/517	1.49	6/700 (0.9%)
3	Xh	0.84	0/517	1.47	8/700 (1.1%)
3	Xi	0.92	0/517	1.62	9/700 (1.3%)
3	Xj	0.65	0/517	1.16	6/700 (0.9%)
3	Xk	0.66	0/517	1.21	7/700 (1.0%)
3	Xl	0.63	0/517	1.22	7/700 (1.0%)
3	Xm	0.70	1/517 (0.2%)	1.31	9/700 (1.3%)
3	Xn	0.64	0/517	1.19	7/700 (1.0%)
3	Xo	0.65	0/517	1.09	5/700 (0.7%)
3	Xp	0.60	0/517	1.27	7/700 (1.0%)
3	Xq	0.65	0/517	1.17	5/700 (0.7%)
3	Xr	0.65	0/517	1.20	5/700 (0.7%)
3	Xs	0.67	0/517	1.24	6/700 (0.9%)
3	Xt	0.63	0/517	1.09	4/700 (0.6%)
3	Xu	0.89	0/517	1.47	8/700 (1.1%)
3	Xv	0.86	0/517	1.49	6/700 (0.9%)
3	Xw	0.86	0/517	1.49	8/700 (1.1%)
3	Xx	0.92	0/517	1.62	9/700 (1.3%)
3	Y0	1.17	4/997 (0.4%)	1.60	12/1345 (0.9%)
3	Y1	1.15	5/997 (0.5%)	1.61	14/1345 (1.0%)
3	Y2	1.17	5/997 (0.5%)	1.59	10/1345 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	Y3	1.16	5/997 (0.5%)	1.68	15/1345 (1.1%)
3	Y4	1.17	5/997 (0.5%)	1.60	14/1345 (1.0%)
3	Y5	1.17	4/997 (0.4%)	1.61	12/1345 (0.9%)
3	Y6	1.16	5/997 (0.5%)	1.60	13/1345 (1.0%)
3	Y7	1.16	5/997 (0.5%)	1.58	12/1345 (0.9%)
3	Y8	1.16	5/997 (0.5%)	1.58	12/1345 (0.9%)
3	Y9	1.15	5/997 (0.5%)	1.59	13/1345 (1.0%)
3	YA	1.16	5/997 (0.5%)	1.62	13/1345 (1.0%)
3	YB	1.16	5/997 (0.5%)	1.58	11/1345 (0.8%)
3	YC	1.16	5/997 (0.5%)	1.59	12/1345 (0.9%)
3	YD	1.16	5/997 (0.5%)	1.57	12/1345 (0.9%)
3	YE	1.16	4/997 (0.4%)	1.59	12/1345 (0.9%)
3	YF	1.17	4/997 (0.4%)	1.60	12/1345 (0.9%)
3	YG	1.15	5/997 (0.5%)	1.60	14/1345 (1.0%)
3	YH	1.17	5/997 (0.5%)	1.59	10/1345 (0.7%)
3	YI	1.16	5/997 (0.5%)	1.60	12/1345 (0.9%)
3	YJ	1.17	5/997 (0.5%)	1.60	14/1345 (1.0%)
3	YK	1.17	4/997 (0.4%)	1.61	12/1345 (0.9%)
3	YL	1.16	5/997 (0.5%)	1.60	13/1345 (1.0%)
3	YM	1.16	5/997 (0.5%)	1.58	12/1345 (0.9%)
3	YN	1.16	5/997 (0.5%)	1.58	12/1345 (0.9%)
3	YO	1.15	5/997 (0.5%)	1.59	13/1345 (1.0%)
3	YP	1.16	5/997 (0.5%)	1.62	13/1345 (1.0%)
3	YQ	1.16	5/997 (0.5%)	1.58	11/1345 (0.8%)
3	YR	1.16	5/997 (0.5%)	1.59	12/1345 (0.9%)
3	YS	1.16	5/997 (0.5%)	1.57	12/1345 (0.9%)
3	YT	1.16	4/997 (0.4%)	1.58	12/1345 (0.9%)
3	YU	1.17	4/997 (0.4%)	1.60	12/1345 (0.9%)
3	YV	1.15	5/997 (0.5%)	1.60	14/1345 (1.0%)
3	YW	1.17	5/997 (0.5%)	1.59	10/1345 (0.7%)
3	YX	1.15	5/997 (0.5%)	1.59	12/1345 (0.9%)
3	YY	1.17	5/997 (0.5%)	1.60	14/1345 (1.0%)
3	YZ	1.17	4/997 (0.4%)	1.61	12/1345 (0.9%)
3	Ya	1.16	5/997 (0.5%)	1.60	13/1345 (1.0%)
3	Yb	1.16	5/997 (0.5%)	1.58	12/1345 (0.9%)
3	Yc	1.16	5/997 (0.5%)	1.58	12/1345 (0.9%)
3	Yd	1.15	5/997 (0.5%)	1.60	13/1345 (1.0%)
3	Ye	1.16	5/997 (0.5%)	1.62	13/1345 (1.0%)
3	Yf	1.16	5/997 (0.5%)	1.58	11/1345 (0.8%)
3	Yg	1.16	5/997 (0.5%)	1.59	12/1345 (0.9%)
3	Yh	1.16	5/997 (0.5%)	1.57	12/1345 (0.9%)
3	Yi	1.16	4/997 (0.4%)	1.59	12/1345 (0.9%)
3	Yj	1.17	4/997 (0.4%)	1.60	12/1345 (0.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
3	Yk	1.15	5/997 (0.5%)	1.61	14/1345 (1.0%)
3	Yl	1.17	5/997 (0.5%)	1.59	10/1345 (0.7%)
3	Ym	1.16	5/997 (0.5%)	1.59	12/1345 (0.9%)
3	Yn	1.17	5/997 (0.5%)	1.60	14/1345 (1.0%)
3	Yo	1.17	4/997 (0.4%)	1.61	12/1345 (0.9%)
3	Yp	1.16	5/997 (0.5%)	1.60	13/1345 (1.0%)
3	Yq	1.16	5/997 (0.5%)	1.58	12/1345 (0.9%)
3	Yr	1.17	5/997 (0.5%)	1.58	12/1345 (0.9%)
3	Ys	1.15	5/997 (0.5%)	1.60	13/1345 (1.0%)
3	Yt	1.16	5/997 (0.5%)	1.61	13/1345 (1.0%)
3	Yu	1.16	5/997 (0.5%)	1.58	11/1345 (0.8%)
3	Yv	1.16	5/997 (0.5%)	1.59	12/1345 (0.9%)
3	Yw	1.16	5/997 (0.5%)	1.57	12/1345 (0.9%)
3	Yx	1.16	4/997 (0.4%)	1.59	12/1345 (0.9%)
All	All	1.32	8529/723532 (1.2%)	1.60	8186/980146 (0.8%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	P0	0	1
2	PF	0	1
2	PU	0	1
2	Pj	0	1
All	All	0	4

All (8529) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Di	93	PRO	C-O	-9.91	1.16	1.24
1	DE	93	PRO	C-O	-9.91	1.16	1.24
1	DK	93	PRO	C-O	-9.91	1.16	1.24
1	DT	93	PRO	C-O	-9.91	1.16	1.24
1	DA	93	PRO	C-O	-9.90	1.16	1.24
1	DP	93	PRO	C-O	-9.90	1.16	1.24
1	De	93	PRO	C-O	-9.90	1.16	1.24
1	Dt	93	PRO	C-O	-9.90	1.16	1.24
1	DC	93	PRO	C-O	-9.88	1.16	1.24
1	Dg	93	PRO	C-O	-9.88	1.16	1.24
1	Dv	93	PRO	C-O	-9.88	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DR	93	PRO	C-O	-9.88	1.16	1.24
1	DZ	93	PRO	C-O	-9.87	1.16	1.24
1	D5	93	PRO	C-O	-9.87	1.16	1.24
1	Do	93	PRO	C-O	-9.87	1.16	1.24
1	Dx	93	PRO	C-O	-9.86	1.16	1.24
1	DX	93	PRO	C-O	-9.85	1.16	1.24
1	Dm	93	PRO	C-O	-9.85	1.16	1.24
1	D2	93	PRO	C-O	-9.85	1.16	1.24
1	DQ	93	PRO	C-O	-9.85	1.16	1.24
1	D1	93	PRO	C-O	-9.83	1.16	1.24
1	DG	93	PRO	C-O	-9.83	1.16	1.24
1	DV	93	PRO	C-O	-9.83	1.16	1.24
1	Dk	93	PRO	C-O	-9.83	1.16	1.24
1	D8	93	PRO	C-O	-9.82	1.16	1.24
1	DN	93	PRO	C-O	-9.82	1.16	1.24
1	Dc	93	PRO	C-O	-9.82	1.16	1.24
1	D3	93	PRO	C-O	-9.81	1.16	1.24
1	DL	93	PRO	C-O	-9.81	1.16	1.24
1	Da	93	PRO	C-O	-9.81	1.16	1.24
1	D6	93	PRO	C-O	-9.81	1.16	1.24
1	D0	93	PRO	C-O	-9.78	1.16	1.24
1	Dr	93	PRO	C-O	-9.77	1.16	1.24
1	DM	93	PRO	C-O	-9.77	1.16	1.24
1	Dp	93	PRO	C-O	-9.76	1.16	1.24
1	D9	93	PRO	C-O	-9.72	1.16	1.24
1	DO	93	PRO	C-O	-9.72	1.16	1.24
1	Dd	93	PRO	C-O	-9.72	1.16	1.24
1	Ds	93	PRO	C-O	-9.72	1.16	1.24
1	Df	93	PRO	C-O	-9.70	1.16	1.24
1	NB	46	VAL	C-O	-9.08	1.15	1.24
1	NQ	46	VAL	C-O	-9.08	1.15	1.24
1	Nf	46	VAL	C-O	-9.08	1.15	1.24
1	Nu	46	VAL	C-O	-9.08	1.15	1.24
1	N4	46	VAL	C-O	-9.06	1.15	1.24
1	NG	46	VAL	C-O	-9.04	1.15	1.24
1	NR	46	VAL	C-O	-9.04	1.15	1.24
1	Nq	46	VAL	C-O	-9.03	1.15	1.24
1	N8	46	VAL	C-O	-9.01	1.15	1.24
1	NJ	46	VAL	C-O	-9.01	1.15	1.24
1	NN	46	VAL	C-O	-9.01	1.15	1.24
1	Nc	46	VAL	C-O	-9.01	1.15	1.24
1	Nr	46	VAL	C-O	-9.01	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N3	46	VAL	C-O	-9.01	1.15	1.24
1	NI	46	VAL	C-O	-9.01	1.15	1.24
1	NW	46	VAL	C-O	-9.00	1.15	1.24
1	Nl	46	VAL	C-O	-9.00	1.15	1.24
1	NX	46	VAL	C-O	-9.00	1.15	1.24
1	Nm	46	VAL	C-O	-9.00	1.15	1.24
1	Ni	46	VAL	C-O	-8.99	1.15	1.24
1	NA	46	VAL	C-O	-8.98	1.15	1.24
1	NP	46	VAL	C-O	-8.98	1.15	1.24
1	Ne	46	VAL	C-O	-8.98	1.15	1.24
1	Nt	46	VAL	C-O	-8.98	1.15	1.24
1	Nv	46	VAL	C-O	-8.98	1.15	1.24
1	N2	46	VAL	C-O	-8.98	1.15	1.24
1	NH	46	VAL	C-O	-8.98	1.15	1.24
1	N7	46	VAL	C-O	-8.97	1.15	1.24
1	NM	46	VAL	C-O	-8.97	1.15	1.24
1	Nh	46	VAL	C-O	-8.97	1.15	1.24
1	Nb	46	VAL	C-O	-8.97	1.15	1.24
1	N1	46	VAL	C-O	-8.97	1.15	1.24
1	N5	46	VAL	C-O	-8.97	1.15	1.24
1	NK	46	VAL	C-O	-8.97	1.15	1.24
1	NZ	46	VAL	C-O	-8.97	1.15	1.24
1	No	46	VAL	C-O	-8.97	1.15	1.24
1	NC	46	VAL	C-O	-8.96	1.15	1.24
1	Ng	46	VAL	C-O	-8.96	1.15	1.24
1	Nx	46	VAL	C-O	-8.96	1.15	1.24
1	NV	46	VAL	C-O	-8.95	1.15	1.24
1	Nk	46	VAL	C-O	-8.95	1.15	1.24
1	NE	46	VAL	C-O	-8.94	1.15	1.24
1	NT	46	VAL	C-O	-8.94	1.15	1.24
1	N6	46	VAL	C-O	-8.93	1.15	1.24
1	Na	46	VAL	C-O	-8.93	1.15	1.24
1	ND	46	VAL	C-O	-8.93	1.15	1.24
1	NY	46	VAL	C-O	-8.93	1.15	1.24
1	Nw	46	VAL	C-O	-8.93	1.15	1.24
1	Np	46	VAL	C-O	-8.93	1.15	1.24
1	NF	46	VAL	C-O	-8.92	1.15	1.24
1	NL	46	VAL	C-O	-8.91	1.15	1.24
1	N0	46	VAL	C-O	-8.90	1.15	1.24
1	N9	46	VAL	C-O	-8.90	1.15	1.24
1	NS	46	VAL	C-O	-8.90	1.15	1.24
1	NO	46	VAL	C-O	-8.90	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	NU	46	VAL	C-O	-8.90	1.15	1.24
1	Nj	46	VAL	C-O	-8.90	1.15	1.24
1	Ns	46	VAL	C-O	-8.90	1.15	1.24
1	Nn	46	VAL	C-O	-8.89	1.15	1.24
1	Nd	46	VAL	C-O	-8.82	1.15	1.24
1	GN	46	VAL	C-O	-8.47	1.15	1.24
1	Gc	46	VAL	C-O	-8.46	1.15	1.24
1	Gr	46	VAL	C-O	-8.46	1.15	1.24
1	G4	46	VAL	C-O	-8.44	1.15	1.24
1	GJ	46	VAL	C-O	-8.44	1.15	1.24
1	GY	46	VAL	C-O	-8.44	1.15	1.24
1	GD	46	VAL	C-O	-8.43	1.15	1.24
1	GS	46	VAL	C-O	-8.43	1.15	1.24
1	Gh	46	VAL	C-O	-8.43	1.15	1.24
1	Gw	46	VAL	C-O	-8.43	1.15	1.24
1	G9	46	VAL	C-O	-8.41	1.15	1.24
1	GO	46	VAL	C-O	-8.41	1.15	1.24
1	GX	46	VAL	C-O	-8.41	1.15	1.24
1	Gd	46	VAL	C-O	-8.41	1.15	1.24
1	Gs	46	VAL	C-O	-8.41	1.15	1.24
1	G6	46	VAL	C-O	-8.41	1.15	1.24
1	G8	46	VAL	C-O	-8.41	1.15	1.24
1	Gi	46	VAL	C-O	-8.41	1.15	1.24
1	Gx	46	VAL	C-O	-8.41	1.15	1.24
1	GZ	46	VAL	C-O	-8.40	1.15	1.24
1	Go	46	VAL	C-O	-8.40	1.15	1.24
1	G7	46	VAL	C-O	-8.40	1.15	1.24
1	Gn	46	VAL	C-O	-8.40	1.15	1.24
1	GM	46	VAL	C-O	-8.40	1.15	1.24
1	Gb	46	VAL	C-O	-8.40	1.15	1.24
1	Gq	46	VAL	C-O	-8.39	1.15	1.24
1	GA	46	VAL	C-O	-8.36	1.15	1.24
1	GI	46	VAL	C-O	-8.35	1.15	1.24
1	GL	46	VAL	C-O	-8.35	1.15	1.24
1	Ga	46	VAL	C-O	-8.35	1.15	1.24
1	Gm	46	VAL	C-O	-8.35	1.15	1.24
1	GC	46	VAL	C-O	-8.35	1.15	1.24
1	GR	46	VAL	C-O	-8.35	1.15	1.24
1	G5	46	VAL	C-O	-8.35	1.15	1.24
1	GK	46	VAL	C-O	-8.35	1.15	1.24
1	GE	46	VAL	C-O	-8.35	1.15	1.24
1	Gp	46	VAL	C-O	-8.35	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G1	46	VAL	C-O	-8.32	1.15	1.24
1	GG	46	VAL	C-O	-8.32	1.15	1.24
1	Gk	46	VAL	C-O	-8.32	1.15	1.24
1	GV	46	VAL	C-O	-8.32	1.15	1.24
1	GP	46	VAL	C-O	-8.30	1.15	1.24
1	G3	46	VAL	C-O	-8.29	1.15	1.24
1	Gg	46	VAL	C-O	-8.29	1.15	1.24
1	Gv	46	VAL	C-O	-8.29	1.15	1.24
1	GT	46	VAL	C-O	-8.29	1.15	1.24
1	Ge	46	VAL	C-O	-8.27	1.15	1.24
1	Gt	46	VAL	C-O	-8.23	1.16	1.24
1	Iv	50	VAL	C-O	-8.07	1.16	1.24
1	C1	23	ALA	C-O	-8.01	1.14	1.24
1	Ck	23	ALA	C-O	-8.01	1.14	1.24
1	Cm	23	ALA	C-O	-7.99	1.15	1.24
1	CB	23	ALA	C-O	-7.96	1.15	1.24
1	CQ	23	ALA	C-O	-7.96	1.15	1.24
1	Cf	23	ALA	C-O	-7.96	1.15	1.24
1	Cu	23	ALA	C-O	-7.96	1.15	1.24
1	Ch	23	ALA	C-O	-7.96	1.15	1.24
1	Cw	23	ALA	C-O	-7.96	1.15	1.24
1	Ca	23	ALA	C-O	-7.95	1.15	1.24
1	C6	23	ALA	C-O	-7.95	1.15	1.24
1	CL	23	ALA	C-O	-7.95	1.15	1.24
1	Cp	23	ALA	C-O	-7.95	1.15	1.24
1	GL	50	VAL	C-O	-7.94	1.15	1.23
1	Cv	23	ALA	C-O	-7.94	1.15	1.24
1	GG	50	VAL	C-O	-7.94	1.15	1.23
1	IR	50	VAL	C-O	-7.93	1.16	1.24
1	CG	23	ALA	C-O	-7.93	1.15	1.24
1	Ce	23	ALA	C-O	-7.93	1.15	1.24
1	CV	23	ALA	C-O	-7.93	1.15	1.24
1	Ct	23	ALA	C-O	-7.93	1.15	1.24
1	CY	23	ALA	C-O	-7.93	1.15	1.24
1	Cn	23	ALA	C-O	-7.93	1.15	1.24
1	C2	23	ALA	C-O	-7.92	1.15	1.24
1	Ig	50	VAL	C-O	-7.92	1.16	1.24
1	Ci	77	ALA	C-O	-7.92	1.13	1.23
1	C4	23	ALA	C-O	-7.92	1.15	1.24
1	Cj	23	ALA	C-O	-7.92	1.15	1.24
1	CH	23	ALA	C-O	-7.91	1.15	1.24
1	CW	23	ALA	C-O	-7.91	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C7	23	ALA	C-O	-7.91	1.15	1.24
1	CM	23	ALA	C-O	-7.91	1.15	1.24
1	CO	23	ALA	C-O	-7.91	1.15	1.24
1	CX	23	ALA	C-O	-7.91	1.15	1.24
1	Co	23	ALA	C-O	-7.91	1.15	1.24
1	C3	23	ALA	C-O	-7.91	1.15	1.24
1	CI	23	ALA	C-O	-7.91	1.15	1.24
1	CC	23	ALA	C-O	-7.90	1.15	1.24
1	C9	23	ALA	C-O	-7.90	1.15	1.24
1	CR	23	ALA	C-O	-7.90	1.15	1.24
1	Cg	23	ALA	C-O	-7.90	1.15	1.24
1	Cb	23	ALA	C-O	-7.90	1.15	1.24
1	Cq	23	ALA	C-O	-7.90	1.15	1.24
1	CA	23	ALA	C-O	-7.89	1.15	1.24
1	CP	23	ALA	C-O	-7.89	1.15	1.24
1	Cd	23	ALA	C-O	-7.89	1.15	1.24
1	GY	50	VAL	C-O	-7.89	1.15	1.23
1	CS	23	ALA	C-O	-7.88	1.15	1.24
1	Ga	50	VAL	C-O	-7.88	1.15	1.23
1	Gp	50	VAL	C-O	-7.88	1.15	1.23
1	Cx	77	ALA	C-O	-7.87	1.14	1.23
1	CJ	23	ALA	C-O	-7.87	1.15	1.24
1	Ij	50	VAL	C-O	-7.87	1.16	1.24
1	GP	50	VAL	C-O	-7.87	1.15	1.23
1	G6	50	VAL	C-O	-7.86	1.15	1.23
1	CE	77	ALA	C-O	-7.86	1.14	1.23
1	CT	77	ALA	C-O	-7.86	1.14	1.23
1	IC	50	VAL	C-O	-7.86	1.16	1.24
1	Cl	23	ALA	C-O	-7.86	1.15	1.24
1	GA	50	VAL	C-O	-7.86	1.15	1.23
1	GV	50	VAL	C-O	-7.86	1.15	1.23
1	Gt	50	VAL	C-O	-7.86	1.15	1.23
1	Cs	23	ALA	C-O	-7.86	1.15	1.24
1	C5	23	ALA	C-O	-7.85	1.15	1.24
1	CZ	23	ALA	C-O	-7.85	1.15	1.24
1	C8	23	ALA	C-O	-7.85	1.15	1.24
1	CN	23	ALA	C-O	-7.85	1.15	1.24
1	GT	50	VAL	C-O	-7.85	1.15	1.23
1	Is	50	VAL	C-O	-7.85	1.16	1.24
1	Jj	9	LEU	C-O	-7.85	1.15	1.24
1	G1	50	VAL	C-O	-7.85	1.15	1.23
1	Gk	50	VAL	C-O	-7.85	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ge	50	VAL	C-O	-7.84	1.15	1.23
1	CK	23	ALA	C-O	-7.84	1.15	1.24
1	Gs	50	VAL	C-O	-7.84	1.15	1.23
1	Iq	50	VAL	C-O	-7.84	1.16	1.24
1	Gg	50	VAL	C-O	-7.83	1.15	1.23
1	Gv	50	VAL	C-O	-7.83	1.15	1.23
1	Ip	50	VAL	C-O	-7.83	1.16	1.24
1	I8	50	VAL	C-O	-7.83	1.16	1.24
1	IN	50	VAL	C-O	-7.83	1.16	1.24
1	Ic	50	VAL	C-O	-7.83	1.16	1.24
1	G9	50	VAL	C-O	-7.82	1.15	1.23
1	GO	50	VAL	C-O	-7.82	1.15	1.23
1	JU	9	LEU	C-O	-7.82	1.15	1.24
1	GI	50	VAL	C-O	-7.82	1.15	1.23
1	IV	50	VAL	C-O	-7.82	1.16	1.24
1	Ik	50	VAL	C-O	-7.82	1.16	1.24
1	Hg	23	ALA	C-O	-7.82	1.15	1.24
1	Gd	50	VAL	C-O	-7.82	1.15	1.23
1	JF	9	LEU	C-O	-7.82	1.15	1.24
1	CD	23	ALA	C-O	-7.82	1.15	1.24
1	Ca	77	ALA	C-O	-7.82	1.14	1.23
1	Cp	77	ALA	C-O	-7.82	1.14	1.23
1	Ck	77	ALA	C-O	-7.81	1.14	1.23
1	IQ	50	VAL	C-O	-7.81	1.16	1.24
1	C0	23	ALA	C-O	-7.81	1.15	1.24
1	CF	23	ALA	C-O	-7.81	1.15	1.24
1	IL	50	VAL	C-O	-7.81	1.16	1.24
1	CU	23	ALA	C-O	-7.81	1.15	1.24
1	Cc	77	ALA	C-O	-7.81	1.14	1.23
1	Cr	77	ALA	C-O	-7.81	1.14	1.23
1	ID	50	VAL	C-O	-7.81	1.16	1.24
1	I7	50	VAL	C-O	-7.81	1.16	1.24
1	IS	50	VAL	C-O	-7.81	1.16	1.24
1	IM	50	VAL	C-O	-7.81	1.16	1.24
1	IU	50	VAL	C-O	-7.81	1.16	1.24
1	Ib	50	VAL	C-O	-7.81	1.16	1.24
1	Dh	55	GLY	C-O	7.81	1.34	1.23
1	C5	77	ALA	C-O	-7.80	1.14	1.23
1	C0	77	ALA	C-O	-7.80	1.14	1.23
1	CR	77	ALA	C-O	-7.80	1.14	1.23
1	CF	77	ALA	C-O	-7.80	1.14	1.23
1	CZ	77	ALA	C-O	-7.80	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	IW	50	VAL	C-O	-7.80	1.16	1.24
1	CU	77	ALA	C-O	-7.80	1.14	1.23
1	Co	77	ALA	C-O	-7.80	1.14	1.23
1	Cj	77	ALA	C-O	-7.80	1.14	1.23
1	CE	23	ALA	C-O	-7.80	1.15	1.24
1	IB	50	VAL	C-O	-7.80	1.16	1.24
1	CK	77	ALA	C-O	-7.80	1.14	1.23
1	If	50	VAL	C-O	-7.80	1.16	1.24
1	G5	50	VAL	C-O	-7.80	1.15	1.23
1	I2	50	VAL	C-O	-7.80	1.16	1.24
1	CT	23	ALA	C-O	-7.80	1.15	1.24
1	GR	50	VAL	C-O	-7.80	1.15	1.23
1	GK	50	VAL	C-O	-7.80	1.15	1.23
1	IH	50	VAL	C-O	-7.80	1.16	1.24
1	Ci	23	ALA	C-O	-7.80	1.15	1.24
1	Cx	23	ALA	C-O	-7.80	1.15	1.24
1	Go	50	VAL	C-O	-7.80	1.15	1.23
1	Il	50	VAL	C-O	-7.80	1.16	1.24
1	HC	23	ALA	C-O	-7.80	1.15	1.24
1	HR	23	ALA	C-O	-7.80	1.15	1.24
1	Hv	23	ALA	C-O	-7.80	1.15	1.24
1	Cr	23	ALA	C-O	-7.80	1.15	1.24
1	Cc	23	ALA	C-O	-7.80	1.15	1.24
1	Iu	50	VAL	C-O	-7.80	1.16	1.24
1	Gq	50	VAL	C-O	-7.80	1.15	1.23
1	Ir	50	VAL	C-O	-7.80	1.16	1.24
1	GM	50	VAL	C-O	-7.79	1.15	1.23
1	Gn	50	VAL	C-O	-7.79	1.15	1.23
1	GE	50	VAL	C-O	-7.79	1.15	1.23
1	Ch	77	ALA	C-O	-7.79	1.14	1.23
1	Gi	50	VAL	C-O	-7.79	1.15	1.23
1	Gx	50	VAL	C-O	-7.79	1.15	1.23
1	I4	50	VAL	C-O	-7.79	1.16	1.24
1	IJ	50	VAL	C-O	-7.79	1.16	1.24
1	Ih	50	VAL	C-O	-7.79	1.16	1.24
1	I1	50	VAL	C-O	-7.79	1.16	1.24
1	I9	50	VAL	C-O	-7.79	1.16	1.24
1	IG	50	VAL	C-O	-7.79	1.16	1.24
1	IO	50	VAL	C-O	-7.79	1.16	1.24
1	GC	50	VAL	C-O	-7.79	1.15	1.23
1	I3	50	VAL	C-O	-7.78	1.16	1.24
1	I6	50	VAL	C-O	-7.78	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	II	50	VAL	C-O	-7.78	1.16	1.24
1	IX	50	VAL	C-O	-7.78	1.16	1.24
1	Gc	50	VAL	C-O	-7.78	1.15	1.23
1	Ia	50	VAL	C-O	-7.78	1.16	1.24
1	GJ	50	VAL	C-O	-7.78	1.15	1.23
1	GD	50	VAL	C-O	-7.78	1.15	1.23
1	J5	9	LEU	C-O	-7.78	1.15	1.24
1	G3	50	VAL	C-O	-7.77	1.15	1.23
1	GX	50	VAL	C-O	-7.77	1.15	1.23
1	Gm	50	VAL	C-O	-7.77	1.15	1.23
1	IE	50	VAL	C-O	-7.77	1.16	1.24
1	IT	50	VAL	C-O	-7.77	1.16	1.24
1	Ii	50	VAL	C-O	-7.77	1.16	1.24
1	J0	9	LEU	C-O	-7.77	1.15	1.24
1	Iw	50	VAL	C-O	-7.77	1.16	1.24
1	Cm	77	ALA	C-O	-7.76	1.14	1.23
1	CD	77	ALA	C-O	-7.76	1.14	1.23
1	CS	77	ALA	C-O	-7.76	1.14	1.23
1	CV	77	ALA	C-O	-7.76	1.14	1.23
1	Cw	77	ALA	C-O	-7.76	1.14	1.23
1	G8	50	VAL	C-O	-7.76	1.15	1.23
1	Im	50	VAL	C-O	-7.76	1.16	1.24
1	C8	77	ALA	C-O	-7.76	1.14	1.23
1	CN	77	ALA	C-O	-7.76	1.14	1.23
1	IA	50	VAL	C-O	-7.75	1.16	1.24
1	IP	50	VAL	C-O	-7.75	1.16	1.24
1	Ie	50	VAL	C-O	-7.75	1.16	1.24
1	Id	50	VAL	C-O	-7.75	1.16	1.24
1	It	50	VAL	C-O	-7.75	1.16	1.24
1	C6	77	ALA	C-O	-7.75	1.14	1.23
1	G7	50	VAL	C-O	-7.75	1.15	1.23
1	CL	77	ALA	C-O	-7.75	1.14	1.23
1	H3	23	ALA	C-O	-7.75	1.15	1.24
1	HI	23	ALA	C-O	-7.75	1.15	1.24
1	HX	23	ALA	C-O	-7.75	1.15	1.24
1	Gr	50	VAL	C-O	-7.75	1.15	1.23
1	Cf	77	ALA	C-O	-7.75	1.14	1.23
1	Cu	77	ALA	C-O	-7.75	1.14	1.23
1	C1	77	ALA	C-O	-7.75	1.14	1.23
1	HI	19	PRO	C-O	-7.75	1.14	1.24
1	Hc	23	ALA	C-O	-7.75	1.15	1.24
1	Hw	19	PRO	C-O	-7.75	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I5	50	VAL	C-O	-7.74	1.16	1.24
1	IK	50	VAL	C-O	-7.74	1.16	1.24
1	CC	77	ALA	C-O	-7.74	1.14	1.23
1	Cg	77	ALA	C-O	-7.74	1.14	1.23
1	Cv	77	ALA	C-O	-7.74	1.14	1.23
1	G4	50	VAL	C-O	-7.74	1.15	1.23
1	JR	9	LEU	C-O	-7.74	1.15	1.24
1	JL	9	LEU	C-O	-7.74	1.15	1.24
1	Jg	9	LEU	C-O	-7.74	1.15	1.24
1	IZ	50	VAL	C-O	-7.74	1.16	1.24
1	Hc	19	PRO	C-O	-7.74	1.15	1.24
1	Gw	50	VAL	C-O	-7.74	1.15	1.23
1	Ix	50	VAL	C-O	-7.74	1.16	1.24
1	Hr	19	PRO	C-O	-7.74	1.15	1.24
1	GS	50	VAL	C-O	-7.74	1.15	1.23
1	CI	77	ALA	C-O	-7.74	1.14	1.23
1	JD	9	LEU	C-O	-7.74	1.15	1.24
1	CG	77	ALA	C-O	-7.74	1.14	1.23
1	CW	77	ALA	C-O	-7.73	1.14	1.23
1	Cl	77	ALA	C-O	-7.73	1.14	1.23
1	I0	50	VAL	C-O	-7.73	1.16	1.24
1	IF	50	VAL	C-O	-7.73	1.16	1.24
1	JK	9	LEU	C-O	-7.73	1.15	1.24
1	JZ	9	LEU	C-O	-7.73	1.15	1.24
1	C3	77	ALA	C-O	-7.73	1.14	1.23
1	JS	9	LEU	C-O	-7.73	1.15	1.24
1	Jh	9	LEU	C-O	-7.73	1.15	1.24
1	Jw	9	LEU	C-O	-7.73	1.15	1.24
1	H0	23	ALA	C-O	-7.73	1.15	1.24
1	HP	23	ALA	C-O	-7.73	1.15	1.24
1	GN	50	VAL	C-O	-7.73	1.15	1.23
1	HF	23	ALA	C-O	-7.73	1.15	1.24
1	He	23	ALA	C-O	-7.73	1.15	1.24
1	HU	23	ALA	C-O	-7.73	1.15	1.24
1	Hk	23	ALA	C-O	-7.73	1.15	1.24
1	Hj	23	ALA	C-O	-7.73	1.15	1.24
1	C2	77	ALA	C-O	-7.72	1.14	1.23
1	C7	77	ALA	C-O	-7.72	1.14	1.23
1	CH	77	ALA	C-O	-7.72	1.14	1.23
1	CM	77	ALA	C-O	-7.72	1.14	1.23
1	HY	23	ALA	C-O	-7.72	1.15	1.24
1	Cb	77	ALA	C-O	-7.72	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hn	23	ALA	C-O	-7.72	1.15	1.24
1	In	50	VAL	C-O	-7.72	1.16	1.24
1	HA	23	ALA	C-O	-7.72	1.15	1.24
1	C4	77	ALA	C-O	-7.72	1.14	1.23
1	CJ	77	ALA	C-O	-7.72	1.14	1.23
1	CY	77	ALA	C-O	-7.72	1.14	1.23
1	CX	77	ALA	C-O	-7.72	1.14	1.23
1	CB	77	ALA	C-O	-7.71	1.14	1.23
1	Jl	9	LEU	C-O	-7.71	1.15	1.24
1	HX	19	PRO	C-O	-7.71	1.15	1.24
1	Gb	50	VAL	C-O	-7.71	1.15	1.23
1	Hm	19	PRO	C-O	-7.71	1.15	1.24
1	Hh	23	ALA	C-O	-7.71	1.15	1.24
1	GZ	50	VAL	C-O	-7.71	1.15	1.23
1	IY	50	VAL	C-O	-7.71	1.16	1.24
1	CA	77	ALA	C-O	-7.71	1.14	1.23
1	CP	77	ALA	C-O	-7.71	1.14	1.23
1	CO	77	ALA	C-O	-7.71	1.14	1.23
1	Cd	77	ALA	C-O	-7.71	1.14	1.23
1	Jn	9	LEU	C-O	-7.71	1.15	1.24
1	JY	9	LEU	C-O	-7.71	1.15	1.24
1	CQ	77	ALA	C-O	-7.70	1.14	1.23
1	Jm	9	LEU	C-O	-7.70	1.15	1.24
1	H3	19	PRO	C-O	-7.70	1.15	1.24
1	H6	19	PRO	C-O	-7.70	1.15	1.24
1	JN	9	LEU	C-O	-7.70	1.15	1.24
1	Hp	19	PRO	C-O	-7.70	1.15	1.24
1	H8	19	PRO	C-O	-7.70	1.15	1.24
1	HN	19	PRO	C-O	-7.70	1.15	1.24
1	Ms	19	PRO	C-O	-7.70	1.14	1.24
1	Gh	50	VAL	C-O	-7.70	1.15	1.23
1	Ju	9	LEU	C-O	-7.70	1.15	1.24
1	C9	77	ALA	C-O	-7.69	1.14	1.23
1	Cs	77	ALA	C-O	-7.69	1.14	1.23
1	H8	23	ALA	C-O	-7.69	1.15	1.24
1	HN	23	ALA	C-O	-7.69	1.15	1.24
1	JE	9	LEU	C-O	-7.69	1.15	1.24
1	JT	9	LEU	C-O	-7.69	1.15	1.24
1	Ji	9	LEU	C-O	-7.69	1.15	1.24
1	Jx	9	LEU	C-O	-7.69	1.15	1.24
1	Cn	77	ALA	C-O	-7.69	1.14	1.23
1	Cq	77	ALA	C-O	-7.69	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hj	19	PRO	C-O	-7.69	1.15	1.24
1	H0	19	PRO	C-O	-7.68	1.15	1.24
1	HF	19	PRO	C-O	-7.68	1.15	1.24
1	HU	19	PRO	C-O	-7.68	1.15	1.24
1	Md	19	PRO	C-O	-7.68	1.14	1.24
1	HD	23	ALA	C-O	-7.68	1.15	1.24
1	H4	23	ALA	C-O	-7.68	1.15	1.24
1	HS	23	ALA	C-O	-7.68	1.15	1.24
1	HH	19	PRO	C-O	-7.68	1.15	1.24
1	HJ	23	ALA	C-O	-7.68	1.15	1.24
1	Ce	77	ALA	C-O	-7.68	1.14	1.23
1	JA	9	LEU	C-O	-7.68	1.15	1.24
1	JP	9	LEU	C-O	-7.68	1.15	1.24
1	Je	9	LEU	C-O	-7.68	1.15	1.24
1	JX	9	LEU	C-O	-7.68	1.15	1.24
1	Hd	23	ALA	C-O	-7.68	1.15	1.24
1	Jt	9	LEU	C-O	-7.68	1.15	1.24
1	Hs	23	ALA	C-O	-7.68	1.15	1.24
1	H4	19	PRO	C-O	-7.68	1.15	1.24
1	Ja	9	LEU	C-O	-7.68	1.15	1.24
1	Jp	9	LEU	C-O	-7.68	1.15	1.24
1	JC	9	LEU	C-O	-7.68	1.15	1.24
1	J6	9	LEU	C-O	-7.68	1.15	1.24
1	J8	9	LEU	C-O	-7.67	1.15	1.24
1	Jc	9	LEU	C-O	-7.67	1.15	1.24
1	Hk	19	PRO	C-O	-7.67	1.15	1.24
1	H1	19	PRO	C-O	-7.67	1.15	1.24
1	HG	19	PRO	C-O	-7.67	1.15	1.24
1	HV	19	PRO	C-O	-7.67	1.15	1.24
1	H1	23	ALA	C-O	-7.67	1.15	1.24
1	J1	9	LEU	C-O	-7.67	1.15	1.24
1	H9	23	ALA	C-O	-7.67	1.15	1.24
1	J9	9	LEU	C-O	-7.67	1.15	1.24
1	HG	23	ALA	C-O	-7.67	1.15	1.24
1	HO	23	ALA	C-O	-7.67	1.15	1.24
1	HV	23	ALA	C-O	-7.67	1.15	1.24
1	HZ	19	PRO	C-O	-7.67	1.15	1.24
1	Jd	9	LEU	C-O	-7.67	1.15	1.24
1	HD	19	PRO	C-O	-7.67	1.15	1.24
1	H7	19	PRO	C-O	-7.67	1.15	1.24
1	HS	19	PRO	C-O	-7.67	1.15	1.24
1	HM	19	PRO	C-O	-7.67	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hh	19	PRO	C-O	-7.67	1.15	1.24
1	Jb	9	LEU	C-O	-7.67	1.15	1.24
1	Ct	77	ALA	C-O	-7.67	1.14	1.23
1	Hw	23	ALA	C-O	-7.67	1.15	1.24
1	JB	9	LEU	C-O	-7.67	1.15	1.24
1	JQ	9	LEU	C-O	-7.67	1.15	1.24
1	H5	19	PRO	C-O	-7.66	1.15	1.24
1	Me	19	PRO	C-O	-7.66	1.14	1.24
1	Ho	19	PRO	C-O	-7.66	1.15	1.24
1	JI	9	LEU	C-O	-7.66	1.15	1.24
1	J2	9	LEU	C-O	-7.66	1.15	1.24
1	JG	9	LEU	C-O	-7.66	1.15	1.24
1	JH	9	LEU	C-O	-7.66	1.15	1.24
1	JW	9	LEU	C-O	-7.66	1.15	1.24
1	Js	9	LEU	C-O	-7.66	1.15	1.24
1	HK	19	PRO	C-O	-7.66	1.15	1.24
1	JV	9	LEU	C-O	-7.66	1.15	1.24
1	Hb	19	PRO	C-O	-7.66	1.15	1.24
1	Hq	19	PRO	C-O	-7.66	1.15	1.24
1	HC	19	PRO	C-O	-7.66	1.15	1.24
1	HR	19	PRO	C-O	-7.66	1.15	1.24
1	HL	19	PRO	C-O	-7.66	1.15	1.24
1	Hg	19	PRO	C-O	-7.66	1.15	1.24
1	Ha	19	PRO	C-O	-7.66	1.15	1.24
1	Hv	19	PRO	C-O	-7.66	1.15	1.24
1	M9	19	PRO	C-O	-7.65	1.14	1.24
1	MO	19	PRO	C-O	-7.65	1.14	1.24
1	Hm	23	ALA	C-O	-7.65	1.15	1.24
1	MB	19	PRO	C-O	-7.65	1.14	1.24
1	H5	23	ALA	C-O	-7.65	1.15	1.24
1	J4	9	LEU	C-O	-7.65	1.15	1.24
1	J7	9	LEU	C-O	-7.65	1.15	1.24
1	HK	23	ALA	C-O	-7.65	1.15	1.24
1	JJ	9	LEU	C-O	-7.65	1.15	1.24
1	JO	9	LEU	C-O	-7.65	1.15	1.24
1	HZ	23	ALA	C-O	-7.65	1.15	1.24
1	Ho	23	ALA	C-O	-7.65	1.15	1.24
1	MD	19	PRO	C-O	-7.65	1.14	1.24
1	MS	19	PRO	C-O	-7.65	1.14	1.24
1	H6	23	ALA	C-O	-7.64	1.15	1.24
1	HL	23	ALA	C-O	-7.64	1.15	1.24
1	Mh	19	PRO	C-O	-7.64	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Mw	19	PRO	C-O	-7.64	1.14	1.24
1	Jr	9	LEU	C-O	-7.64	1.15	1.24
1	Hs	19	PRO	C-O	-7.64	1.15	1.24
1	Jk	9	LEU	C-O	-7.64	1.15	1.24
1	J3	9	LEU	C-O	-7.64	1.15	1.24
1	M4	19	PRO	C-O	-7.64	1.14	1.24
1	H9	19	PRO	C-O	-7.64	1.15	1.24
1	HP	19	PRO	C-O	-7.64	1.15	1.24
1	MJ	19	PRO	C-O	-7.64	1.14	1.24
1	HO	19	PRO	C-O	-7.64	1.15	1.24
1	MY	19	PRO	C-O	-7.64	1.14	1.24
1	Hb	23	ALA	C-O	-7.64	1.15	1.24
1	Hd	19	PRO	C-O	-7.64	1.15	1.24
1	Mn	19	PRO	C-O	-7.64	1.14	1.24
1	M8	19	PRO	C-O	-7.64	1.14	1.24
1	MN	19	PRO	C-O	-7.64	1.14	1.24
1	Mr	19	PRO	C-O	-7.64	1.14	1.24
1	MC	19	PRO	C-O	-7.64	1.14	1.24
1	Jf	9	LEU	C-O	-7.64	1.15	1.24
1	HA	19	PRO	C-O	-7.63	1.15	1.24
1	HE	19	PRO	C-O	-7.63	1.15	1.24
1	HT	19	PRO	C-O	-7.63	1.15	1.24
1	Io	50	VAL	C-O	-7.63	1.16	1.24
1	Mt	19	PRO	C-O	-7.63	1.14	1.24
1	Hf	19	PRO	C-O	-7.63	1.15	1.24
1	Jo	9	LEU	C-O	-7.63	1.15	1.24
1	HB	23	ALA	C-O	-7.63	1.15	1.24
1	HQ	23	ALA	C-O	-7.63	1.15	1.24
1	Mc	19	PRO	C-O	-7.63	1.14	1.24
1	Hu	23	ALA	C-O	-7.63	1.15	1.24
1	Hi	19	PRO	C-O	-7.63	1.15	1.24
1	Hx	19	PRO	C-O	-7.63	1.15	1.24
1	MR	19	PRO	C-O	-7.62	1.14	1.24
1	MW	19	PRO	C-O	-7.62	1.14	1.24
1	H2	23	ALA	C-O	-7.62	1.15	1.24
1	HW	23	ALA	C-O	-7.62	1.15	1.24
1	Hl	23	ALA	C-O	-7.62	1.15	1.24
1	M1	19	PRO	C-O	-7.62	1.14	1.24
1	H2	19	PRO	C-O	-7.62	1.15	1.24
1	HW	19	PRO	C-O	-7.62	1.15	1.24
1	Hl	19	PRO	C-O	-7.62	1.15	1.24
1	M2	19	PRO	C-O	-7.62	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M0	19	PRO	C-O	-7.62	1.14	1.24
1	MU	19	PRO	C-O	-7.62	1.14	1.24
1	Ml	19	PRO	C-O	-7.62	1.14	1.24
1	HB	19	PRO	C-O	-7.62	1.15	1.24
1	MX	19	PRO	C-O	-7.62	1.14	1.24
1	MI	19	PRO	C-O	-7.62	1.14	1.24
1	Mm	19	PRO	C-O	-7.62	1.14	1.24
1	H7	23	ALA	C-O	-7.61	1.15	1.24
1	HM	23	ALA	C-O	-7.61	1.15	1.24
1	Ha	23	ALA	C-O	-7.61	1.15	1.24
1	Hp	23	ALA	C-O	-7.61	1.15	1.24
1	Hq	23	ALA	C-O	-7.61	1.15	1.24
1	Hr	23	ALA	C-O	-7.61	1.15	1.24
1	MA	19	PRO	C-O	-7.61	1.14	1.24
1	MP	19	PRO	C-O	-7.61	1.14	1.24
1	HJ	19	PRO	C-O	-7.61	1.15	1.24
1	Hf	23	ALA	C-O	-7.61	1.15	1.24
1	Mo	19	PRO	C-O	-7.61	1.14	1.24
1	HE	23	ALA	C-O	-7.61	1.15	1.24
1	ME	19	PRO	C-O	-7.61	1.14	1.24
1	HT	23	ALA	C-O	-7.61	1.15	1.24
1	MT	19	PRO	C-O	-7.61	1.14	1.24
1	Mi	19	PRO	C-O	-7.61	1.14	1.24
1	MV	19	PRO	C-O	-7.61	1.14	1.24
1	M3	19	PRO	C-O	-7.60	1.14	1.24
1	M6	19	PRO	C-O	-7.60	1.14	1.24
1	ML	19	PRO	C-O	-7.60	1.14	1.24
1	Mg	19	PRO	C-O	-7.60	1.14	1.24
1	Ma	19	PRO	C-O	-7.60	1.14	1.24
1	Mv	19	PRO	C-O	-7.60	1.14	1.24
1	Mp	19	PRO	C-O	-7.60	1.14	1.24
1	HH	23	ALA	C-O	-7.60	1.15	1.24
1	MZ	19	PRO	C-O	-7.60	1.14	1.24
1	Jq	9	LEU	C-O	-7.60	1.15	1.24
1	He	19	PRO	C-O	-7.60	1.15	1.24
1	JM	9	LEU	C-O	-7.59	1.15	1.24
1	Ht	23	ALA	C-O	-7.59	1.15	1.24
1	Hx	23	ALA	C-O	-7.59	1.15	1.24
1	M7	19	PRO	C-O	-7.59	1.14	1.24
1	MM	19	PRO	C-O	-7.59	1.14	1.24
1	Mf	19	PRO	C-O	-7.59	1.14	1.24
1	Mj	19	PRO	C-O	-7.59	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	HY	19	PRO	C-O	-7.58	1.15	1.24
1	Mx	19	PRO	C-O	-7.58	1.14	1.24
1	MQ	19	PRO	C-O	-7.58	1.14	1.24
1	Mu	19	PRO	C-O	-7.58	1.14	1.24
1	MG	19	PRO	C-O	-7.58	1.14	1.24
1	Mk	19	PRO	C-O	-7.58	1.14	1.24
1	M5	19	PRO	C-O	-7.57	1.14	1.24
1	Hu	19	PRO	C-O	-7.57	1.15	1.24
1	MK	19	PRO	C-O	-7.57	1.14	1.24
1	Ht	19	PRO	C-O	-7.56	1.15	1.24
1	BD	52	GLY	C-O	-7.55	1.15	1.23
1	HQ	19	PRO	C-O	-7.55	1.15	1.24
1	MH	19	PRO	C-O	-7.54	1.14	1.24
1	Hn	19	PRO	C-O	-7.54	1.15	1.24
1	Mb	19	PRO	C-O	-7.54	1.14	1.24
1	Hi	23	ALA	C-O	-7.53	1.15	1.24
1	HL	81	ILE	C-O	-7.53	1.16	1.24
1	Ht	81	ILE	C-O	-7.52	1.16	1.24
1	Bv	52	GLY	C-O	-7.51	1.15	1.23
1	Bg	52	GLY	C-O	-7.50	1.15	1.23
1	HA	81	ILE	C-O	-7.49	1.16	1.24
1	Hd	81	ILE	C-O	-7.49	1.16	1.24
1	Mq	19	PRO	C-O	-7.48	1.14	1.24
1	H6	81	ILE	C-O	-7.47	1.16	1.24
1	Ha	81	ILE	C-O	-7.47	1.16	1.24
1	Hl	81	ILE	C-O	-7.47	1.16	1.24
1	BS	52	GLY	C-O	-7.47	1.16	1.23
1	Bh	52	GLY	C-O	-7.47	1.16	1.23
1	Hw	81	ILE	C-O	-7.45	1.16	1.24
1	DS	55	GLY	C-O	7.45	1.33	1.23
1	HP	81	ILE	C-O	-7.45	1.16	1.24
1	Hs	81	ILE	C-O	-7.45	1.16	1.24
1	BG	52	GLY	C-O	-7.44	1.16	1.23
1	Hq	89	GLU	C-O	-7.44	1.15	1.24
1	H4	81	ILE	C-O	-7.43	1.16	1.24
1	HQ	81	ILE	C-O	-7.43	1.16	1.24
1	HY	81	ILE	C-O	-7.43	1.16	1.24
1	BN	52	GLY	C-O	-7.43	1.16	1.23
1	Bw	52	GLY	C-O	-7.43	1.16	1.23
1	HB	81	ILE	C-O	-7.43	1.16	1.24
1	B4	52	GLY	C-O	-7.43	1.16	1.23
1	BJ	52	GLY	C-O	-7.43	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	HH	81	ILE	C-O	-7.43	1.16	1.24
1	CO	47	THR	C-O	-7.43	1.15	1.24
1	Hf	81	ILE	C-O	-7.43	1.16	1.24
1	BY	52	GLY	C-O	-7.43	1.16	1.23
1	Cd	47	THR	C-O	-7.43	1.15	1.24
1	Bn	52	GLY	C-O	-7.43	1.16	1.23
1	Bq	52	GLY	C-O	-7.43	1.16	1.23
1	BL	52	GLY	C-O	-7.42	1.16	1.23
1	Hb	81	ILE	C-O	-7.42	1.16	1.24
1	Cn	47	THR	C-O	-7.42	1.15	1.24
1	Hq	81	ILE	C-O	-7.42	1.16	1.24
1	HX	81	ILE	C-O	-7.42	1.16	1.24
1	Hs	89	GLU	C-O	-7.42	1.15	1.24
1	H5	89	GLU	C-O	-7.41	1.15	1.24
1	HZ	81	ILE	C-O	-7.41	1.16	1.24
1	Hb	89	GLU	C-O	-7.41	1.15	1.24
1	Hu	89	GLU	C-O	-7.41	1.15	1.24
1	H1	81	ILE	C-O	-7.41	1.16	1.24
1	H9	81	ILE	C-O	-7.41	1.16	1.24
1	HG	81	ILE	C-O	-7.41	1.16	1.24
1	HV	81	ILE	C-O	-7.41	1.16	1.24
1	Hk	81	ILE	C-O	-7.41	1.16	1.24
1	HB	89	GLU	C-O	-7.41	1.15	1.24
1	H9	89	GLU	C-O	-7.41	1.15	1.24
1	HQ	89	GLU	C-O	-7.41	1.15	1.24
1	HO	89	GLU	C-O	-7.41	1.15	1.24
1	Hf	89	GLU	C-O	-7.41	1.15	1.24
1	Hd	89	GLU	C-O	-7.41	1.15	1.24
1	H5	81	ILE	C-O	-7.41	1.16	1.24
1	H8	81	ILE	C-O	-7.41	1.16	1.24
1	HK	81	ILE	C-O	-7.41	1.16	1.24
1	HN	81	ILE	C-O	-7.41	1.16	1.24
1	He	81	ILE	C-O	-7.41	1.16	1.24
1	Hi	81	ILE	C-O	-7.41	1.16	1.24
1	Hc	81	ILE	C-O	-7.41	1.16	1.24
1	Ho	81	ILE	C-O	-7.41	1.16	1.24
1	HJ	81	ILE	C-O	-7.41	1.16	1.24
1	Hn	81	ILE	C-O	-7.41	1.16	1.24
1	B9	52	GLY	C-O	-7.40	1.16	1.23
1	BO	52	GLY	C-O	-7.40	1.16	1.23
1	BV	52	GLY	C-O	-7.40	1.16	1.23
1	Bk	52	GLY	C-O	-7.40	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H3	81	ILE	C-O	-7.40	1.16	1.24
1	HI	81	ILE	C-O	-7.40	1.16	1.24
1	Hx	81	ILE	C-O	-7.40	1.16	1.24
1	Hm	81	ILE	C-O	-7.40	1.16	1.24
1	Hu	81	ILE	C-O	-7.40	1.16	1.24
1	HE	81	ILE	C-O	-7.40	1.16	1.24
1	HT	81	ILE	C-O	-7.40	1.16	1.24
1	Hr	81	ILE	C-O	-7.40	1.16	1.24
1	HD	81	ILE	C-O	-7.40	1.16	1.24
1	B1	52	GLY	C-O	-7.40	1.16	1.23
1	H7	81	ILE	C-O	-7.40	1.16	1.24
1	HS	81	ILE	C-O	-7.40	1.16	1.24
1	HM	81	ILE	C-O	-7.40	1.16	1.24
1	Hh	81	ILE	C-O	-7.40	1.16	1.24
1	H2	81	ILE	C-O	-7.39	1.16	1.24
1	HW	81	ILE	C-O	-7.39	1.16	1.24
1	Ba	52	GLY	C-O	-7.39	1.16	1.23
1	HF	81	ILE	C-O	-7.39	1.16	1.24
1	Hv	81	ILE	C-O	-7.39	1.16	1.24
1	Hp	81	ILE	C-O	-7.39	1.16	1.24
1	B5	52	GLY	C-O	-7.38	1.16	1.23
1	B0	52	GLY	C-O	-7.38	1.16	1.23
1	BH	52	GLY	C-O	-7.38	1.16	1.23
1	BK	52	GLY	C-O	-7.38	1.16	1.23
1	BF	52	GLY	C-O	-7.38	1.16	1.23
1	BZ	52	GLY	C-O	-7.38	1.16	1.23
1	BU	52	GLY	C-O	-7.38	1.16	1.23
1	Bu	52	GLY	C-O	-7.38	1.16	1.23
1	Bo	52	GLY	C-O	-7.38	1.16	1.23
1	Bj	52	GLY	C-O	-7.38	1.16	1.23
1	B8	52	GLY	C-O	-7.38	1.16	1.23
1	B3	52	GLY	C-O	-7.38	1.16	1.23
1	B6	52	GLY	C-O	-7.38	1.16	1.23
1	BI	52	GLY	C-O	-7.38	1.16	1.23
1	BX	52	GLY	C-O	-7.38	1.16	1.23
1	BB	52	GLY	C-O	-7.37	1.16	1.23
1	B2	52	GLY	C-O	-7.37	1.16	1.23
1	BQ	52	GLY	C-O	-7.37	1.16	1.23
1	HO	81	ILE	C-O	-7.37	1.16	1.24
1	Bf	52	GLY	C-O	-7.37	1.16	1.23
1	BW	52	GLY	C-O	-7.37	1.16	1.23
1	Bc	52	GLY	C-O	-7.37	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Br	52	GLY	C-O	-7.37	1.16	1.23
1	HA	89	GLU	C-O	-7.37	1.15	1.24
1	HP	89	GLU	C-O	-7.37	1.15	1.24
1	He	89	GLU	C-O	-7.37	1.15	1.24
1	H0	81	ILE	C-O	-7.36	1.16	1.24
1	HU	81	ILE	C-O	-7.36	1.16	1.24
1	Hj	81	ILE	C-O	-7.36	1.16	1.24
1	H4	89	GLU	C-O	-7.36	1.15	1.24
1	Hg	89	GLU	C-O	-7.36	1.15	1.24
1	Hv	89	GLU	C-O	-7.36	1.15	1.24
1	HV	89	GLU	C-O	-7.36	1.15	1.24
1	Ht	89	GLU	C-O	-7.36	1.15	1.24
1	Hk	89	GLU	C-O	-7.36	1.15	1.24
1	H0	89	GLU	C-O	-7.35	1.15	1.24
1	Hj	89	GLU	C-O	-7.35	1.15	1.24
1	H7	89	GLU	C-O	-7.35	1.15	1.24
1	HM	89	GLU	C-O	-7.35	1.15	1.24
1	Hn	89	GLU	C-O	-7.35	1.15	1.24
1	HU	89	GLU	C-O	-7.35	1.15	1.24
1	Hl	89	GLU	C-O	-7.35	1.15	1.24
1	Bd	52	GLY	C-O	-7.35	1.16	1.23
1	Bs	52	GLY	C-O	-7.35	1.16	1.23
1	H2	89	GLU	C-O	-7.35	1.15	1.24
1	HH	89	GLU	C-O	-7.35	1.15	1.24
1	HK	89	GLU	C-O	-7.35	1.15	1.24
1	HW	89	GLU	C-O	-7.35	1.15	1.24
1	HZ	89	GLU	C-O	-7.35	1.15	1.24
1	HD	89	GLU	C-O	-7.34	1.15	1.24
1	BA	52	GLY	C-O	-7.34	1.16	1.23
1	B7	52	GLY	C-O	-7.34	1.16	1.23
1	Bb	52	GLY	C-O	-7.34	1.16	1.23
1	Bp	52	GLY	C-O	-7.34	1.16	1.23
1	H1	89	GLU	C-O	-7.34	1.15	1.24
1	G9	52	GLY	C-O	-7.34	1.16	1.23
1	HG	89	GLU	C-O	-7.34	1.15	1.24
1	Hp	89	GLU	C-O	-7.34	1.15	1.24
1	Be	52	GLY	C-O	-7.34	1.16	1.23
1	HC	81	ILE	C-O	-7.33	1.16	1.24
1	HR	81	ILE	C-O	-7.33	1.16	1.24
1	Hg	81	ILE	C-O	-7.33	1.16	1.24
1	Bl	52	GLY	C-O	-7.33	1.16	1.23
1	Hh	89	GLU	C-O	-7.32	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	HY	89	GLU	C-O	-7.32	1.15	1.24
1	F1	52	GLY	C-O	-7.32	1.18	1.23
1	Fe	52	GLY	C-O	-7.32	1.18	1.23
1	HC	89	GLU	C-O	-7.32	1.15	1.24
1	HR	89	GLU	C-O	-7.32	1.15	1.24
1	HS	89	GLU	C-O	-7.31	1.15	1.24
1	Hw	89	GLU	C-O	-7.31	1.15	1.24
1	B8	23	ALA	C-O	-7.31	1.15	1.24
1	BN	23	ALA	C-O	-7.31	1.15	1.24
1	Bc	23	ALA	C-O	-7.31	1.15	1.24
1	Br	23	ALA	C-O	-7.31	1.15	1.24
1	B7	23	ALA	C-O	-7.31	1.15	1.24
1	BM	23	ALA	C-O	-7.31	1.15	1.24
1	Bb	23	ALA	C-O	-7.31	1.15	1.24
1	Bq	23	ALA	C-O	-7.31	1.15	1.24
1	H6	89	GLU	C-O	-7.30	1.15	1.24
1	HL	89	GLU	C-O	-7.30	1.15	1.24
1	Ha	89	GLU	C-O	-7.30	1.15	1.24
1	BE	52	GLY	C-O	-7.30	1.16	1.23
1	Bi	52	GLY	C-O	-7.30	1.16	1.23
1	Bx	52	GLY	C-O	-7.30	1.16	1.23
1	HE	89	GLU	C-O	-7.30	1.15	1.24
1	H8	89	GLU	C-O	-7.30	1.15	1.24
1	BT	52	GLY	C-O	-7.30	1.16	1.23
1	HT	89	GLU	C-O	-7.30	1.15	1.24
1	HF	89	GLU	C-O	-7.30	1.15	1.24
1	HN	89	GLU	C-O	-7.30	1.15	1.24
1	Hc	89	GLU	C-O	-7.30	1.15	1.24
1	Ft	52	GLY	C-O	-7.30	1.18	1.23
1	Ho	89	GLU	C-O	-7.30	1.15	1.24
1	Hr	89	GLU	C-O	-7.30	1.15	1.24
1	BC	23	ALA	C-O	-7.29	1.15	1.24
1	BR	23	ALA	C-O	-7.29	1.15	1.24
1	B3	23	ALA	C-O	-7.29	1.15	1.24
1	BI	23	ALA	C-O	-7.29	1.15	1.24
1	BX	23	ALA	C-O	-7.28	1.15	1.24
1	Bm	23	ALA	C-O	-7.28	1.15	1.24
1	H3	89	GLU	C-O	-7.28	1.15	1.24
1	HJ	89	GLU	C-O	-7.27	1.15	1.24
1	GD	52	GLY	C-O	-7.27	1.16	1.23
1	GS	52	GLY	C-O	-7.27	1.16	1.23
1	HI	89	GLU	C-O	-7.27	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Go	52	GLY	C-O	-7.27	1.16	1.23
1	BZ	23	ALA	C-O	-7.26	1.15	1.24
1	HX	89	GLU	C-O	-7.26	1.15	1.24
1	Hm	89	GLU	C-O	-7.26	1.15	1.24
1	F0	52	GLY	C-O	-7.25	1.18	1.23
1	FF	52	GLY	C-O	-7.25	1.18	1.23
1	GO	52	GLY	C-O	-7.25	1.16	1.23
1	FZ	52	GLY	C-O	-7.25	1.18	1.23
1	Gd	52	GLY	C-O	-7.25	1.16	1.23
1	Gs	52	GLY	C-O	-7.25	1.16	1.23
1	GZ	52	GLY	C-O	-7.25	1.16	1.23
1	Bg	23	ALA	C-O	-7.24	1.15	1.24
1	Bv	23	ALA	C-O	-7.24	1.15	1.24
1	Bs	23	ALA	C-O	-7.24	1.15	1.24
1	Kq	50	VAL	C-O	-7.24	1.16	1.24
1	Hi	89	GLU	C-O	-7.24	1.15	1.24
1	Hx	89	GLU	C-O	-7.24	1.15	1.24
1	Gh	52	GLY	C-O	-7.24	1.16	1.23
1	BT	23	ALA	C-O	-7.24	1.15	1.24
1	Gw	52	GLY	C-O	-7.24	1.16	1.23
1	B2	23	ALA	C-O	-7.24	1.15	1.24
1	BH	23	ALA	C-O	-7.24	1.15	1.24
1	Bf	23	ALA	C-O	-7.24	1.15	1.24
1	BW	23	ALA	C-O	-7.24	1.15	1.24
1	Bu	23	ALA	C-O	-7.24	1.15	1.24
1	Fc	52	GLY	C-O	-7.23	1.18	1.23
1	Fr	52	GLY	C-O	-7.23	1.18	1.23
1	FE	52	GLY	C-O	-7.23	1.18	1.23
1	F5	52	GLY	C-O	-7.23	1.18	1.23
1	FT	52	GLY	C-O	-7.23	1.18	1.23
1	FG	52	GLY	C-O	-7.23	1.18	1.23
1	FK	52	GLY	C-O	-7.23	1.18	1.23
1	FA	52	GLY	C-O	-7.23	1.18	1.23
1	FP	52	GLY	C-O	-7.23	1.18	1.23
1	BD	23	ALA	C-O	-7.22	1.15	1.24
1	Bh	23	ALA	C-O	-7.22	1.15	1.24
1	BS	23	ALA	C-O	-7.22	1.15	1.24
1	Bw	23	ALA	C-O	-7.22	1.15	1.24
1	F8	52	GLY	C-O	-7.22	1.18	1.23
1	FN	52	GLY	C-O	-7.22	1.18	1.23
1	B5	23	ALA	C-O	-7.21	1.15	1.24
1	B6	23	ALA	C-O	-7.21	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BK	23	ALA	C-O	-7.21	1.15	1.24
1	FI	52	GLY	C-O	-7.21	1.18	1.23
1	Ba	23	ALA	C-O	-7.21	1.15	1.24
1	FU	52	GLY	C-O	-7.21	1.18	1.23
1	Bp	23	ALA	C-O	-7.21	1.15	1.24
1	Bo	23	ALA	C-O	-7.21	1.15	1.24
1	BL	23	ALA	C-O	-7.21	1.15	1.24
1	FB	52	GLY	C-O	-7.21	1.18	1.23
1	FQ	52	GLY	C-O	-7.21	1.18	1.23
1	BV	23	ALA	C-O	-7.20	1.15	1.24
1	Bk	23	ALA	C-O	-7.20	1.15	1.24
1	B1	23	ALA	C-O	-7.20	1.15	1.24
1	F6	52	GLY	C-O	-7.20	1.18	1.23
1	BG	23	ALA	C-O	-7.20	1.15	1.24
1	BO	23	ALA	C-O	-7.20	1.15	1.24
1	Fa	52	GLY	C-O	-7.20	1.18	1.23
1	Fm	52	GLY	C-O	-7.20	1.18	1.23
1	Fp	52	GLY	C-O	-7.20	1.18	1.23
1	Fj	52	GLY	C-O	-7.20	1.18	1.23
1	G4	52	GLY	C-O	-7.19	1.16	1.23
1	GJ	52	GLY	C-O	-7.19	1.16	1.23
1	Gn	52	GLY	C-O	-7.19	1.16	1.23
1	BB	23	ALA	C-O	-7.19	1.15	1.24
1	B0	23	ALA	C-O	-7.19	1.15	1.24
1	BQ	23	ALA	C-O	-7.19	1.15	1.24
1	Bl	23	ALA	C-O	-7.19	1.15	1.24
1	Bj	23	ALA	C-O	-7.19	1.15	1.24
1	B4	23	ALA	C-O	-7.19	1.15	1.24
1	BJ	23	ALA	C-O	-7.19	1.15	1.24
1	BY	23	ALA	C-O	-7.19	1.15	1.24
1	Bn	23	ALA	C-O	-7.19	1.15	1.24
1	BU	23	ALA	C-O	-7.19	1.15	1.24
1	FD	52	GLY	C-O	-7.18	1.18	1.23
1	FS	52	GLY	C-O	-7.18	1.18	1.23
1	FL	52	GLY	C-O	-7.18	1.18	1.23
1	Fh	52	GLY	C-O	-7.18	1.18	1.23
1	G5	52	GLY	C-O	-7.18	1.16	1.23
1	GK	52	GLY	C-O	-7.18	1.16	1.23
1	GP	52	GLY	C-O	-7.18	1.16	1.23
1	F4	52	GLY	C-O	-7.17	1.18	1.23
1	F7	52	GLY	C-O	-7.17	1.18	1.23
1	FJ	52	GLY	C-O	-7.17	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	FM	52	GLY	C-O	-7.17	1.18	1.23
1	Fb	52	GLY	C-O	-7.17	1.18	1.23
1	FY	52	GLY	C-O	-7.17	1.18	1.23
1	Fq	52	GLY	C-O	-7.17	1.18	1.23
1	Ff	52	GLY	C-O	-7.17	1.18	1.23
1	Bd	23	ALA	C-O	-7.17	1.15	1.24
1	BE	23	ALA	C-O	-7.17	1.15	1.24
1	Bx	23	ALA	C-O	-7.17	1.15	1.24
1	Fn	52	GLY	C-O	-7.17	1.18	1.23
1	GE	52	GLY	C-O	-7.16	1.16	1.23
1	FH	52	GLY	C-O	-7.16	1.18	1.23
1	Gi	52	GLY	C-O	-7.16	1.16	1.23
1	FW	52	GLY	C-O	-7.16	1.18	1.23
1	Fu	52	GLY	C-O	-7.16	1.18	1.23
1	Gx	52	GLY	C-O	-7.16	1.16	1.23
1	K0	50	VAL	C-O	-7.16	1.16	1.24
1	KK	50	VAL	C-O	-7.16	1.16	1.24
1	KF	50	VAL	C-O	-7.16	1.16	1.24
1	Kj	50	VAL	C-O	-7.16	1.16	1.24
1	Fi	52	GLY	C-O	-7.16	1.18	1.23
1	Fx	52	GLY	C-O	-7.16	1.18	1.23
1	GA	52	GLY	C-O	-7.16	1.16	1.23
1	Gt	52	GLY	C-O	-7.16	1.16	1.23
1	Ck	46	VAL	C-O	-7.16	1.16	1.24
1	B9	23	ALA	C-O	-7.15	1.15	1.24
1	F2	52	GLY	C-O	-7.15	1.18	1.23
1	Cu	46	VAL	C-O	-7.15	1.16	1.24
1	Fo	52	GLY	C-O	-7.15	1.18	1.23
1	Fl	52	GLY	C-O	-7.15	1.18	1.23
1	G1	52	GLY	C-O	-7.15	1.16	1.23
1	GG	52	GLY	C-O	-7.15	1.16	1.23
1	Ge	52	GLY	C-O	-7.15	1.16	1.23
1	GV	52	GLY	C-O	-7.15	1.16	1.23
1	Gk	52	GLY	C-O	-7.15	1.16	1.23
1	G7	52	GLY	C-O	-7.15	1.16	1.23
1	GM	52	GLY	C-O	-7.15	1.16	1.23
1	GY	52	GLY	C-O	-7.15	1.16	1.23
1	Ct	46	VAL	C-O	-7.15	1.16	1.24
1	F3	52	GLY	C-O	-7.15	1.18	1.23
1	FX	52	GLY	C-O	-7.15	1.18	1.23
1	BF	23	ALA	C-O	-7.14	1.15	1.24
1	CB	46	VAL	C-O	-7.14	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	CQ	46	VAL	C-O	-7.14	1.16	1.24
1	FV	52	GLY	C-O	-7.14	1.18	1.23
1	Kb	50	VAL	C-O	-7.14	1.16	1.24
1	GT	52	GLY	C-O	-7.14	1.16	1.23
1	KU	50	VAL	C-O	-7.13	1.16	1.24
1	CS	46	VAL	C-O	-7.13	1.16	1.24
1	Gm	51	ARG	C-O	-7.13	1.16	1.23
1	KZ	50	VAL	C-O	-7.13	1.16	1.24
1	Ko	50	VAL	C-O	-7.13	1.16	1.24
1	Be	23	ALA	C-O	-7.12	1.16	1.24
1	Bt	23	ALA	C-O	-7.12	1.16	1.24
1	BA	23	ALA	C-O	-7.12	1.16	1.24
1	F9	52	GLY	C-O	-7.12	1.18	1.23
1	BP	23	ALA	C-O	-7.12	1.16	1.24
1	FO	52	GLY	C-O	-7.12	1.18	1.23
1	Fd	52	GLY	C-O	-7.12	1.18	1.23
1	Fw	52	GLY	C-O	-7.12	1.18	1.23
1	Gr	51	ARG	C-O	-7.12	1.16	1.23
1	G6	78	ALA	C-O	-7.12	1.15	1.23
1	G8	52	GLY	C-O	-7.12	1.16	1.23
1	Ka	50	VAL	C-O	-7.12	1.16	1.24
1	Kp	50	VAL	C-O	-7.12	1.16	1.24
1	G6	52	GLY	C-O	-7.11	1.16	1.23
1	GL	52	GLY	C-O	-7.11	1.16	1.23
1	Ga	52	GLY	C-O	-7.11	1.16	1.23
1	Gp	52	GLY	C-O	-7.11	1.16	1.23
1	CV	46	VAL	C-O	-7.11	1.16	1.24
1	C1	46	VAL	C-O	-7.11	1.16	1.24
1	C2	46	VAL	C-O	-7.11	1.16	1.24
1	CH	46	VAL	C-O	-7.11	1.16	1.24
1	CO	46	VAL	C-O	-7.11	1.16	1.24
1	CA	46	VAL	C-O	-7.11	1.16	1.24
1	Ce	46	VAL	C-O	-7.11	1.16	1.24
1	Ku	50	VAL	C-O	-7.11	1.16	1.24
1	G3	52	GLY	C-O	-7.10	1.16	1.23
1	CP	46	VAL	C-O	-7.10	1.16	1.24
1	GI	52	GLY	C-O	-7.10	1.16	1.23
1	GN	78	ALA	C-O	-7.10	1.15	1.23
1	Gb	52	GLY	C-O	-7.10	1.16	1.23
1	Gq	52	GLY	C-O	-7.10	1.16	1.23
1	KL	50	VAL	C-O	-7.10	1.16	1.24
1	K8	50	VAL	C-O	-7.10	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	KN	50	VAL	C-O	-7.10	1.16	1.24
1	Fs	52	GLY	C-O	-7.10	1.18	1.23
1	C4	46	VAL	C-O	-7.09	1.16	1.24
1	G9	78	ALA	C-O	-7.09	1.16	1.23
1	CJ	46	VAL	C-O	-7.09	1.16	1.24
1	GO	78	ALA	C-O	-7.09	1.16	1.23
1	CY	46	VAL	C-O	-7.09	1.16	1.24
1	Gc	52	GLY	C-O	-7.09	1.16	1.23
1	Gd	78	ALA	C-O	-7.09	1.16	1.23
1	Gs	78	ALA	C-O	-7.09	1.16	1.23
1	Bi	23	ALA	C-O	-7.09	1.16	1.24
1	GX	52	GLY	C-O	-7.09	1.16	1.23
1	Gc	78	ALA	C-O	-7.09	1.16	1.23
1	Gr	78	ALA	C-O	-7.09	1.16	1.23
1	C0	47	THR	C-O	-7.08	1.15	1.24
1	Cj	47	THR	C-O	-7.08	1.15	1.24
1	GD	51	ARG	C-O	-7.08	1.16	1.23
1	GS	51	ARG	C-O	-7.08	1.16	1.23
1	CX	46	VAL	C-O	-7.08	1.16	1.24
1	Cp	46	VAL	C-O	-7.08	1.16	1.24
1	K5	50	VAL	C-O	-7.08	1.16	1.24
1	C7	46	VAL	C-O	-7.08	1.16	1.24
1	CM	46	VAL	C-O	-7.08	1.16	1.24
1	Gh	51	ARG	C-O	-7.08	1.16	1.23
1	Cb	46	VAL	C-O	-7.08	1.16	1.24
1	Gw	51	ARG	C-O	-7.08	1.16	1.23
1	GM	78	ALA	C-O	-7.07	1.16	1.23
1	Ge	51	ARG	C-O	-7.07	1.16	1.23
1	G6	51	ARG	C-O	-7.07	1.16	1.23
1	G7	78	ALA	C-O	-7.07	1.16	1.23
1	CZ	46	VAL	C-O	-7.07	1.16	1.24
1	Gb	78	ALA	C-O	-7.07	1.16	1.23
1	Gc	51	ARG	C-O	-7.07	1.16	1.23
1	Cw	46	VAL	C-O	-7.07	1.16	1.24
1	Cq	46	VAL	C-O	-7.07	1.16	1.24
1	Gq	78	ALA	C-O	-7.07	1.16	1.23
1	KE	50	VAL	C-O	-7.07	1.16	1.24
1	KT	50	VAL	C-O	-7.07	1.16	1.24
1	KH	50	VAL	C-O	-7.07	1.16	1.24
1	C5	47	THR	C-O	-7.07	1.15	1.24
1	Ci	47	THR	C-O	-7.07	1.15	1.24
1	Cx	47	THR	C-O	-7.07	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C8	47	THR	C-O	-7.07	1.15	1.24
1	K6	50	VAL	C-O	-7.07	1.16	1.24
1	CN	47	THR	C-O	-7.07	1.15	1.24
1	Cc	47	THR	C-O	-7.07	1.15	1.24
1	Cr	47	THR	C-O	-7.07	1.15	1.24
1	K7	50	VAL	C-O	-7.06	1.16	1.24
1	KM	50	VAL	C-O	-7.06	1.16	1.24
1	CT	46	VAL	C-O	-7.06	1.16	1.24
1	GA	51	ARG	C-O	-7.06	1.16	1.23
1	GP	51	ARG	C-O	-7.06	1.16	1.23
1	Gt	51	ARG	C-O	-7.06	1.16	1.23
1	KA	50	VAL	C-O	-7.06	1.16	1.24
1	KP	50	VAL	C-O	-7.06	1.16	1.24
1	KO	50	VAL	C-O	-7.06	1.16	1.24
1	Cl	46	VAL	C-O	-7.06	1.16	1.24
1	K9	50	VAL	C-O	-7.06	1.16	1.24
1	Ke	50	VAL	C-O	-7.06	1.16	1.24
1	Kd	50	VAL	C-O	-7.06	1.16	1.24
1	Kt	50	VAL	C-O	-7.06	1.16	1.24
1	Ks	50	VAL	C-O	-7.06	1.16	1.24
1	Cc	46	VAL	C-O	-7.06	1.16	1.24
1	Go	51	ARG	C-O	-7.06	1.16	1.23
1	GC	52	GLY	C-O	-7.05	1.16	1.23
1	GR	52	GLY	C-O	-7.05	1.16	1.23
1	K1	50	VAL	C-O	-7.05	1.16	1.24
1	Gr	52	GLY	C-O	-7.05	1.16	1.23
1	GK	78	ALA	C-O	-7.05	1.16	1.23
1	KG	50	VAL	C-O	-7.05	1.16	1.24
1	GN	52	GLY	C-O	-7.05	1.16	1.23
1	Kg	50	VAL	C-O	-7.05	1.16	1.24
1	Kv	50	VAL	C-O	-7.05	1.16	1.24
1	Go	78	ALA	C-O	-7.05	1.16	1.23
1	KW	50	VAL	C-O	-7.05	1.16	1.24
1	Fv	52	GLY	C-O	-7.05	1.18	1.23
1	Kl	50	VAL	C-O	-7.05	1.16	1.24
1	CN	46	VAL	C-O	-7.05	1.16	1.24
1	Cr	46	VAL	C-O	-7.05	1.16	1.24
1	G1	51	ARG	C-O	-7.05	1.16	1.23
1	G3	51	ARG	C-O	-7.05	1.16	1.23
1	G8	78	ALA	C-O	-7.05	1.16	1.23
1	Gg	52	GLY	C-O	-7.05	1.16	1.23
1	GV	51	ARG	C-O	-7.05	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	GX	51	ARG	C-O	-7.05	1.16	1.23
1	KV	50	VAL	C-O	-7.05	1.16	1.24
1	Gv	52	GLY	C-O	-7.05	1.16	1.23
1	Gk	51	ARG	C-O	-7.05	1.16	1.23
1	Gn	51	ARG	C-O	-7.05	1.16	1.23
1	Kk	50	VAL	C-O	-7.05	1.16	1.24
1	FF	53	GLU	C-O	-7.05	1.15	1.23
1	CF	47	THR	C-O	-7.04	1.15	1.24
1	CU	47	THR	C-O	-7.04	1.15	1.24
1	Kc	50	VAL	C-O	-7.04	1.16	1.24
1	Kr	50	VAL	C-O	-7.04	1.16	1.24
1	GV	78	ALA	C-O	-7.04	1.16	1.23
1	G3	78	ALA	C-O	-7.04	1.16	1.23
1	GL	78	ALA	C-O	-7.04	1.16	1.23
1	GY	78	ALA	C-O	-7.04	1.16	1.23
1	Ga	78	ALA	C-O	-7.04	1.16	1.23
1	Gn	78	ALA	C-O	-7.04	1.16	1.23
1	GA	78	ALA	C-O	-7.04	1.16	1.23
1	Ge	78	ALA	C-O	-7.04	1.16	1.23
1	Gt	78	ALA	C-O	-7.04	1.16	1.23
1	G4	78	ALA	C-O	-7.04	1.16	1.23
1	G8	51	ARG	C-O	-7.04	1.16	1.23
1	Gi	51	ARG	C-O	-7.04	1.16	1.23
1	G5	78	ALA	C-O	-7.04	1.16	1.23
1	GZ	78	ALA	C-O	-7.04	1.16	1.23
1	G1	78	ALA	C-O	-7.04	1.16	1.23
1	GJ	78	ALA	C-O	-7.04	1.16	1.23
1	Gh	78	ALA	C-O	-7.04	1.16	1.23
1	GG	51	ARG	C-O	-7.03	1.16	1.23
1	C3	46	VAL	C-O	-7.03	1.16	1.24
1	K3	50	VAL	C-O	-7.03	1.16	1.24
1	CR	46	VAL	C-O	-7.03	1.16	1.24
1	CI	46	VAL	C-O	-7.03	1.16	1.24
1	Cg	46	VAL	C-O	-7.03	1.16	1.24
1	KX	50	VAL	C-O	-7.03	1.16	1.24
1	Gw	78	ALA	C-O	-7.03	1.16	1.23
1	Gm	52	GLY	C-O	-7.03	1.16	1.23
1	GC	78	ALA	C-O	-7.03	1.16	1.23
1	GR	78	ALA	C-O	-7.03	1.16	1.23
1	ML	47	THR	C-O	-7.03	1.15	1.24
1	Gg	78	ALA	C-O	-7.03	1.16	1.23
1	GG	78	ALA	C-O	-7.03	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	CG	46	VAL	C-O	-7.02	1.16	1.24
1	K2	50	VAL	C-O	-7.02	1.16	1.24
1	GT	78	ALA	C-O	-7.02	1.16	1.23
1	GI	78	ALA	C-O	-7.02	1.16	1.23
1	GX	78	ALA	C-O	-7.02	1.16	1.23
1	Cv	46	VAL	C-O	-7.02	1.16	1.24
1	Cm	46	VAL	C-O	-7.02	1.16	1.24
1	Gm	78	ALA	C-O	-7.02	1.16	1.23
1	Ki	50	VAL	C-O	-7.02	1.16	1.24
1	Kx	50	VAL	C-O	-7.02	1.16	1.24
1	GI	51	ARG	C-O	-7.02	1.16	1.23
1	CE	47	THR	C-O	-7.02	1.15	1.24
1	G4	51	ARG	C-O	-7.02	1.16	1.23
1	C6	47	THR	C-O	-7.02	1.15	1.24
1	G7	51	ARG	C-O	-7.02	1.16	1.23
1	CT	47	THR	C-O	-7.02	1.15	1.24
1	GJ	51	ARG	C-O	-7.02	1.16	1.23
1	CL	47	THR	C-O	-7.02	1.15	1.24
1	GM	51	ARG	C-O	-7.02	1.16	1.23
1	CX	47	THR	C-O	-7.02	1.15	1.24
1	Ca	47	THR	C-O	-7.02	1.15	1.24
1	Gb	51	ARG	C-O	-7.02	1.16	1.23
1	Cm	47	THR	C-O	-7.02	1.15	1.24
1	Cp	47	THR	C-O	-7.02	1.15	1.24
1	Fg	52	GLY	C-O	-7.01	1.18	1.23
1	Ga	51	ARG	C-O	-7.01	1.16	1.23
1	Gp	51	ARG	C-O	-7.01	1.16	1.23
1	CK	47	THR	C-O	-7.01	1.15	1.24
1	CW	46	VAL	C-O	-7.01	1.17	1.24
1	Aw	57	VAL	C-O	-7.01	1.16	1.24
1	G5	51	ARG	C-O	-7.01	1.16	1.23
1	GK	51	ARG	C-O	-7.01	1.16	1.23
1	GZ	51	ARG	C-O	-7.01	1.16	1.23
1	Mh	47	THR	C-O	-7.01	1.15	1.24
1	Mw	47	THR	C-O	-7.01	1.15	1.24
1	Mp	47	THR	C-O	-7.01	1.15	1.24
1	GD	78	ALA	C-O	-7.00	1.16	1.23
1	GS	78	ALA	C-O	-7.00	1.16	1.23
1	KC	50	VAL	C-O	-7.00	1.17	1.24
1	KR	50	VAL	C-O	-7.00	1.17	1.24
1	CA	47	THR	C-O	-7.00	1.15	1.24
1	FC	52	GLY	C-O	-7.00	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	MD	47	THR	C-O	-7.00	1.15	1.24
1	CP	47	THR	C-O	-7.00	1.15	1.24
1	FR	52	GLY	C-O	-7.00	1.18	1.23
1	MS	47	THR	C-O	-7.00	1.15	1.24
1	Ad	57	VAL	C-O	-7.00	1.16	1.24
1	As	57	VAL	C-O	-7.00	1.16	1.24
1	Gp	78	ALA	C-O	-7.00	1.16	1.23
1	KB	50	VAL	C-O	-7.00	1.17	1.24
1	Kf	50	VAL	C-O	-7.00	1.17	1.24
1	Kh	50	VAL	C-O	-6.99	1.17	1.24
1	C3	47	THR	C-O	-6.99	1.15	1.24
1	GT	51	ARG	C-O	-6.99	1.16	1.23
1	CI	47	THR	C-O	-6.99	1.15	1.24
1	M1	47	THR	C-O	-6.99	1.15	1.24
1	F8	46	VAL	C-O	-6.99	1.16	1.24
1	MG	47	THR	C-O	-6.99	1.15	1.24
1	FN	46	VAL	C-O	-6.99	1.16	1.24
1	GY	51	ARG	C-O	-6.99	1.16	1.23
1	Fc	46	VAL	C-O	-6.99	1.16	1.24
1	Fr	46	VAL	C-O	-6.99	1.16	1.24
1	C1	47	THR	C-O	-6.99	1.15	1.24
1	K4	50	VAL	C-O	-6.99	1.17	1.24
1	CG	47	THR	C-O	-6.99	1.15	1.24
1	KJ	50	VAL	C-O	-6.99	1.17	1.24
1	GL	51	ARG	C-O	-6.99	1.16	1.23
1	Ce	47	THR	C-O	-6.99	1.15	1.24
1	CV	47	THR	C-O	-6.99	1.15	1.24
1	KY	50	VAL	C-O	-6.99	1.17	1.24
1	MX	47	THR	C-O	-6.99	1.15	1.24
1	Ck	47	THR	C-O	-6.99	1.15	1.24
1	Gq	51	ARG	C-O	-6.99	1.16	1.23
1	Mm	47	THR	C-O	-6.99	1.15	1.24
1	F3	46	VAL	C-O	-6.99	1.16	1.24
1	FI	46	VAL	C-O	-6.99	1.16	1.24
1	FX	46	VAL	C-O	-6.99	1.16	1.24
1	Fm	46	VAL	C-O	-6.99	1.16	1.24
1	CC	47	THR	C-O	-6.99	1.15	1.24
1	CR	47	THR	C-O	-6.99	1.15	1.24
1	Cg	47	THR	C-O	-6.99	1.15	1.24
1	Gv	78	ALA	C-O	-6.99	1.16	1.23
1	FC	46	VAL	C-O	-6.98	1.16	1.24
1	MC	47	THR	C-O	-6.98	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Mv	47	THR	C-O	-6.98	1.15	1.24
1	Gi	78	ALA	C-O	-6.98	1.16	1.23
1	Ct	47	THR	C-O	-6.98	1.15	1.24
1	Gx	78	ALA	C-O	-6.98	1.16	1.23
1	KI	50	VAL	C-O	-6.98	1.17	1.24
1	Gk	78	ALA	C-O	-6.98	1.16	1.23
1	KD	50	VAL	C-O	-6.98	1.17	1.24
1	KS	50	VAL	C-O	-6.98	1.17	1.24
1	CZ	47	THR	C-O	-6.98	1.15	1.24
1	Co	47	THR	C-O	-6.98	1.15	1.24
1	Mc	47	THR	C-O	-6.97	1.15	1.24
1	Mr	47	THR	C-O	-6.97	1.15	1.24
1	MA	47	THR	C-O	-6.97	1.15	1.24
1	MB	47	THR	C-O	-6.97	1.15	1.24
1	MP	47	THR	C-O	-6.97	1.15	1.24
1	MQ	47	THR	C-O	-6.97	1.15	1.24
1	M2	47	THR	C-O	-6.97	1.15	1.24
1	GP	78	ALA	C-O	-6.97	1.16	1.23
1	MR	47	THR	C-O	-6.97	1.15	1.24
1	MH	47	THR	C-O	-6.97	1.15	1.24
1	Mf	47	THR	C-O	-6.97	1.15	1.24
1	Mu	47	THR	C-O	-6.97	1.15	1.24
1	GE	51	ARG	C-O	-6.97	1.16	1.23
1	GE	78	ALA	C-O	-6.97	1.16	1.23
1	KQ	50	VAL	C-O	-6.97	1.17	1.24
1	MY	47	THR	C-O	-6.97	1.15	1.24
1	Fw	46	VAL	C-O	-6.97	1.16	1.24
1	Gx	51	ARG	C-O	-6.97	1.16	1.23
1	Mn	47	THR	C-O	-6.97	1.15	1.24
1	GC	51	ARG	C-O	-6.97	1.16	1.23
1	C2	47	THR	C-O	-6.97	1.15	1.24
1	M5	47	THR	C-O	-6.97	1.15	1.24
1	M8	47	THR	C-O	-6.97	1.15	1.24
1	GR	51	ARG	C-O	-6.97	1.16	1.23
1	MN	47	THR	C-O	-6.97	1.15	1.24
1	MZ	47	THR	C-O	-6.97	1.15	1.24
1	Mo	47	THR	C-O	-6.97	1.15	1.24
1	MK	47	THR	C-O	-6.97	1.15	1.24
1	Cv	47	THR	C-O	-6.96	1.15	1.24
1	Fk	52	GLY	C-O	-6.96	1.18	1.23
1	ME	47	THR	C-O	-6.96	1.15	1.24
1	MT	47	THR	C-O	-6.96	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Me	47	THR	C-O	-6.96	1.15	1.24
1	Fh	46	VAL	C-O	-6.96	1.16	1.24
1	F7	46	VAL	C-O	-6.96	1.16	1.24
1	Fg	46	VAL	C-O	-6.96	1.16	1.24
1	Fb	46	VAL	C-O	-6.96	1.16	1.24
1	Fq	46	VAL	C-O	-6.96	1.16	1.24
1	Ff	46	VAL	C-O	-6.96	1.16	1.24
1	Fu	46	VAL	C-O	-6.96	1.16	1.24
1	M3	47	THR	C-O	-6.96	1.15	1.24
1	M4	47	THR	C-O	-6.96	1.15	1.24
1	M6	47	THR	C-O	-6.96	1.15	1.24
1	M7	47	THR	C-O	-6.96	1.15	1.24
1	MJ	47	THR	C-O	-6.96	1.15	1.24
1	FM	46	VAL	C-O	-6.96	1.16	1.24
1	MM	47	THR	C-O	-6.96	1.15	1.24
1	Mi	47	THR	C-O	-6.96	1.15	1.24
1	Ma	47	THR	C-O	-6.96	1.15	1.24
1	Mx	47	THR	C-O	-6.96	1.15	1.24
1	Kn	50	VAL	C-O	-6.96	1.17	1.24
1	MI	47	THR	C-O	-6.96	1.15	1.24
1	CB	47	THR	C-O	-6.95	1.15	1.24
1	CQ	47	THR	C-O	-6.95	1.15	1.24
1	FZ	46	VAL	C-O	-6.95	1.16	1.24
1	MV	47	THR	C-O	-6.95	1.15	1.24
1	Fo	46	VAL	C-O	-6.95	1.16	1.24
1	FV	46	VAL	C-O	-6.95	1.16	1.24
1	Fk	46	VAL	C-O	-6.95	1.16	1.24
1	Mb	47	THR	C-O	-6.95	1.15	1.24
1	Km	50	VAL	C-O	-6.95	1.17	1.24
1	Mg	47	THR	C-O	-6.94	1.15	1.24
1	G9	51	ARG	C-O	-6.94	1.16	1.23
1	GO	51	ARG	C-O	-6.94	1.16	1.23
1	Gd	51	ARG	C-O	-6.94	1.16	1.23
1	Gs	51	ARG	C-O	-6.94	1.16	1.23
1	C7	47	THR	C-O	-6.94	1.15	1.24
1	M0	47	THR	C-O	-6.94	1.15	1.24
1	CJ	47	THR	C-O	-6.94	1.15	1.24
1	CM	47	THR	C-O	-6.94	1.15	1.24
1	GN	51	ARG	C-O	-6.94	1.16	1.23
1	CY	47	THR	C-O	-6.94	1.15	1.24
1	MW	47	THR	C-O	-6.94	1.15	1.24
1	Cb	47	THR	C-O	-6.94	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	MU	47	THR	C-O	-6.94	1.15	1.24
1	Fv	46	VAL	C-O	-6.94	1.16	1.24
1	Ml	47	THR	C-O	-6.94	1.15	1.24
1	Cq	47	THR	C-O	-6.94	1.15	1.24
1	Mj	47	THR	C-O	-6.94	1.15	1.24
1	MF	47	THR	C-O	-6.94	1.15	1.24
1	A2	57	VAL	C-O	-6.94	1.16	1.24
1	FR	46	VAL	C-O	-6.93	1.16	1.24
1	Fa	46	VAL	C-O	-6.93	1.16	1.24
1	C9	47	THR	C-O	-6.93	1.15	1.24
1	Gt	23	ALA	C-O	-6.93	1.16	1.24
1	Cs	47	THR	C-O	-6.93	1.15	1.24
1	C4	47	THR	C-O	-6.93	1.15	1.24
1	AE	57	VAL	C-O	-6.93	1.16	1.24
1	FB	46	VAL	C-O	-6.93	1.16	1.24
1	FQ	46	VAL	C-O	-6.93	1.16	1.24
1	CW	47	THR	C-O	-6.93	1.15	1.24
1	Ax	57	VAL	C-O	-6.93	1.16	1.24
1	Mt	47	THR	C-O	-6.93	1.15	1.24
1	Ao	57	VAL	C-O	-6.93	1.16	1.24
1	Cl	47	THR	C-O	-6.93	1.15	1.24
1	Kw	50	VAL	C-O	-6.93	1.17	1.24
1	A9	57	VAL	C-O	-6.92	1.16	1.24
1	AO	57	VAL	C-O	-6.92	1.16	1.24
1	FA	46	VAL	C-O	-6.92	1.16	1.24
1	FP	46	VAL	C-O	-6.92	1.16	1.24
1	Fe	46	VAL	C-O	-6.92	1.16	1.24
1	A4	57	VAL	C-O	-6.92	1.16	1.24
1	AJ	57	VAL	C-O	-6.92	1.16	1.24
1	An	57	VAL	C-O	-6.92	1.16	1.24
1	FW	46	VAL	C-O	-6.92	1.16	1.24
1	Gc	23	ALA	C-O	-6.92	1.16	1.24
1	F1	46	VAL	C-O	-6.91	1.16	1.24
1	F6	46	VAL	C-O	-6.91	1.16	1.24
1	Fp	46	VAL	C-O	-6.91	1.16	1.24
1	FL	46	VAL	C-O	-6.91	1.16	1.24
1	M9	47	THR	C-O	-6.91	1.15	1.24
1	Gb	23	ALA	C-O	-6.91	1.16	1.24
1	Md	47	THR	C-O	-6.91	1.15	1.24
1	Mk	47	THR	C-O	-6.91	1.15	1.24
1	CH	47	THR	C-O	-6.90	1.15	1.24
1	AT	57	VAL	C-O	-6.90	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ai	57	VAL	C-O	-6.90	1.16	1.24
1	Ge	23	ALA	C-O	-6.90	1.16	1.24
1	AD	57	VAL	C-O	-6.90	1.16	1.24
1	A6	57	VAL	C-O	-6.90	1.16	1.24
1	AS	57	VAL	C-O	-6.90	1.16	1.24
1	Ah	57	VAL	C-O	-6.90	1.16	1.24
1	AY	57	VAL	C-O	-6.90	1.16	1.24
1	Ap	57	VAL	C-O	-6.90	1.16	1.24
1	A0	57	VAL	C-O	-6.90	1.16	1.24
1	AF	57	VAL	C-O	-6.90	1.16	1.24
1	A5	57	VAL	C-O	-6.89	1.16	1.24
1	AK	57	VAL	C-O	-6.89	1.16	1.24
1	AZ	57	VAL	C-O	-6.89	1.16	1.24
1	Ms	47	THR	C-O	-6.89	1.15	1.24
1	DQ	11	MET	C-O	-6.89	1.16	1.24
1	Cf	47	THR	C-O	-6.89	1.15	1.24
1	Cu	47	THR	C-O	-6.89	1.15	1.24
1	F0	46	VAL	C-O	-6.89	1.16	1.24
1	G7	23	ALA	C-O	-6.89	1.16	1.24
1	GS	23	ALA	C-O	-6.89	1.16	1.24
1	FH	46	VAL	C-O	-6.89	1.16	1.24
1	GM	23	ALA	C-O	-6.89	1.16	1.24
1	Gh	23	ALA	C-O	-6.89	1.16	1.24
1	FU	46	VAL	C-O	-6.89	1.16	1.24
1	Ft	46	VAL	C-O	-6.89	1.16	1.24
1	Gw	23	ALA	C-O	-6.89	1.16	1.24
1	Fj	46	VAL	C-O	-6.89	1.16	1.24
1	FF	46	VAL	C-O	-6.89	1.16	1.24
1	Fl	46	VAL	C-O	-6.89	1.16	1.24
1	AB	57	VAL	C-O	-6.88	1.16	1.24
1	AQ	57	VAL	C-O	-6.88	1.16	1.24
1	AH	57	VAL	C-O	-6.88	1.16	1.24
1	Af	57	VAL	C-O	-6.88	1.16	1.24
1	Au	57	VAL	C-O	-6.88	1.16	1.24
1	Go	23	ALA	C-O	-6.88	1.16	1.24
1	Mq	47	THR	C-O	-6.88	1.15	1.24
1	Gg	51	ARG	C-O	-6.88	1.16	1.23
1	CD	47	THR	C-O	-6.88	1.15	1.24
1	CS	47	THR	C-O	-6.88	1.15	1.24
1	FG	46	VAL	C-O	-6.88	1.16	1.24
1	Ch	47	THR	C-O	-6.88	1.15	1.24
1	Cw	47	THR	C-O	-6.88	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Am	37	GLY	C-O	-6.88	1.16	1.24
1	Gr	23	ALA	C-O	-6.88	1.16	1.24
1	LE	53	GLU	C-O	-6.88	1.15	1.24
1	D9	11	MET	C-O	-6.88	1.16	1.24
1	LT	53	GLU	C-O	-6.88	1.15	1.24
1	DO	11	MET	C-O	-6.88	1.16	1.24
1	Li	53	GLU	C-O	-6.88	1.15	1.24
1	Lx	53	GLU	C-O	-6.88	1.15	1.24
1	Cf	46	VAL	C-O	-6.87	1.16	1.24
1	FD	46	VAL	C-O	-6.87	1.16	1.24
1	F5	46	VAL	C-O	-6.87	1.16	1.24
1	FS	46	VAL	C-O	-6.87	1.16	1.24
1	FK	46	VAL	C-O	-6.87	1.16	1.24
1	Fn	46	VAL	C-O	-6.87	1.16	1.24
1	Aa	57	VAL	C-O	-6.87	1.16	1.24
1	GA	23	ALA	C-O	-6.87	1.16	1.24
1	FJ	46	VAL	C-O	-6.87	1.16	1.24
1	MO	47	THR	C-O	-6.87	1.15	1.24
1	AL	37	GLY	C-O	-6.86	1.16	1.24
1	Fv	53	GLU	C-O	-6.86	1.15	1.23
1	Co	46	VAL	C-O	-6.86	1.16	1.24
1	F4	46	VAL	C-O	-6.86	1.16	1.24
1	AL	57	VAL	C-O	-6.86	1.16	1.24
1	AW	57	VAL	C-O	-6.86	1.16	1.24
1	FY	46	VAL	C-O	-6.86	1.16	1.24
1	A6	37	GLY	C-O	-6.86	1.16	1.24
1	Gv	51	ARG	C-O	-6.86	1.16	1.23
1	F2	46	VAL	C-O	-6.86	1.16	1.24
1	LZ	53	GLU	C-O	-6.86	1.15	1.24
1	Ak	57	VAL	C-O	-6.86	1.16	1.24
1	Lo	53	GLU	C-O	-6.86	1.15	1.24
1	GN	23	ALA	C-O	-6.85	1.16	1.24
1	AK	37	GLY	C-O	-6.85	1.16	1.24
1	A1	57	VAL	C-O	-6.85	1.16	1.24
1	A7	57	VAL	C-O	-6.85	1.16	1.24
1	AG	57	VAL	C-O	-6.85	1.16	1.24
1	AV	57	VAL	C-O	-6.85	1.16	1.24
1	AU	57	VAL	C-O	-6.84	1.16	1.24
1	Gx	23	ALA	C-O	-6.84	1.16	1.24
1	Aj	57	VAL	C-O	-6.84	1.16	1.24
1	Dl	11	MET	C-O	-6.84	1.16	1.24
1	A1	37	GLY	C-O	-6.84	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AG	37	GLY	C-O	-6.84	1.16	1.24
1	Ae	37	GLY	C-O	-6.84	1.16	1.24
1	At	37	GLY	C-O	-6.84	1.16	1.24
1	GD	23	ALA	C-O	-6.84	1.16	1.24
1	AR	37	GLY	C-O	-6.84	1.16	1.24
1	AF	37	GLY	C-O	-6.84	1.16	1.24
1	Aa	37	GLY	C-O	-6.84	1.16	1.24
1	La	53	GLU	C-O	-6.84	1.15	1.24
1	Ap	37	GLY	C-O	-6.84	1.16	1.24
1	Gq	23	ALA	C-O	-6.84	1.16	1.24
1	LA	53	GLU	C-O	-6.84	1.15	1.24
1	LP	53	GLU	C-O	-6.84	1.15	1.24
1	Ae	57	VAL	C-O	-6.84	1.16	1.24
1	Fg	53	GLU	C-O	-6.84	1.15	1.23
1	F9	46	VAL	C-O	-6.84	1.16	1.24
1	GP	23	ALA	C-O	-6.84	1.16	1.24
1	FO	46	VAL	C-O	-6.84	1.16	1.24
1	G6	23	ALA	C-O	-6.83	1.16	1.24
1	AA	57	VAL	C-O	-6.83	1.16	1.24
1	AE	37	GLY	C-O	-6.83	1.16	1.24
1	C9	46	VAL	C-O	-6.83	1.16	1.24
1	AP	57	VAL	C-O	-6.83	1.16	1.24
1	AT	37	GLY	C-O	-6.83	1.16	1.24
1	Ag	57	VAL	C-O	-6.83	1.16	1.24
1	Ai	37	GLY	C-O	-6.83	1.16	1.24
1	GV	23	ALA	C-O	-6.83	1.16	1.24
1	At	57	VAL	C-O	-6.83	1.16	1.24
1	Av	57	VAL	C-O	-6.83	1.16	1.24
1	Ax	37	GLY	C-O	-6.83	1.16	1.24
1	Ao	37	GLY	C-O	-6.83	1.16	1.24
1	Gk	23	ALA	C-O	-6.83	1.16	1.24
1	AM	57	VAL	C-O	-6.83	1.16	1.24
1	Ab	57	VAL	C-O	-6.83	1.16	1.24
1	Cd	46	VAL	C-O	-6.83	1.16	1.24
1	Aq	57	VAL	C-O	-6.83	1.16	1.24
1	Cs	46	VAL	C-O	-6.83	1.16	1.24
1	AP	37	GLY	C-O	-6.83	1.16	1.24
1	AR	57	VAL	C-O	-6.83	1.16	1.24
1	G9	23	ALA	C-O	-6.83	1.16	1.24
1	GO	23	ALA	C-O	-6.83	1.16	1.24
1	Gs	23	ALA	C-O	-6.83	1.16	1.24
1	L5	53	GLU	C-O	-6.83	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	LK	53	GLU	C-O	-6.83	1.15	1.24
1	Am	57	VAL	C-O	-6.83	1.16	1.24
1	Cn	46	VAL	C-O	-6.82	1.16	1.24
1	G5	23	ALA	C-O	-6.82	1.16	1.24
1	GG	23	ALA	C-O	-6.82	1.16	1.24
1	GK	23	ALA	C-O	-6.82	1.16	1.24
1	GZ	23	ALA	C-O	-6.82	1.16	1.24
1	Fi	46	VAL	C-O	-6.81	1.16	1.24
1	DW	11	MET	C-O	-6.81	1.16	1.24
1	A0	37	GLY	C-O	-6.81	1.16	1.24
1	AU	37	GLY	C-O	-6.81	1.16	1.24
1	Ca	46	VAL	C-O	-6.81	1.16	1.24
1	Gi	23	ALA	C-O	-6.81	1.16	1.24
1	AA	37	GLY	C-O	-6.81	1.16	1.24
1	G8	23	ALA	C-O	-6.81	1.16	1.24
1	GM	19	PRO	C-O	-6.81	1.15	1.24
1	AX	37	GLY	C-O	-6.81	1.16	1.24
1	Au	37	GLY	C-O	-6.81	1.16	1.24
1	Fd	46	VAL	C-O	-6.80	1.16	1.24
1	Ds	11	MET	C-O	-6.80	1.16	1.24
1	A3	37	GLY	C-O	-6.80	1.16	1.24
1	AI	37	GLY	C-O	-6.80	1.16	1.24
1	Cx	46	VAL	C-O	-6.80	1.16	1.24
1	C0	46	VAL	C-O	-6.80	1.16	1.24
1	Ch	46	VAL	C-O	-6.80	1.16	1.24
1	FC	53	GLU	C-O	-6.80	1.15	1.23
1	A5	37	GLY	C-O	-6.80	1.16	1.24
1	D2	11	MET	C-O	-6.80	1.16	1.24
1	L0	53	GLU	C-O	-6.80	1.15	1.24
1	AZ	37	GLY	C-O	-6.80	1.16	1.24
1	Ac	37	GLY	C-O	-6.80	1.16	1.24
1	Gd	23	ALA	C-O	-6.80	1.16	1.24
1	LU	53	GLU	C-O	-6.80	1.15	1.24
1	Lj	53	GLU	C-O	-6.80	1.15	1.24
1	Al	57	VAL	C-O	-6.80	1.16	1.24
1	CD	46	VAL	C-O	-6.80	1.16	1.24
1	G4	23	ALA	C-O	-6.80	1.16	1.24
1	GJ	23	ALA	C-O	-6.80	1.16	1.24
1	GY	23	ALA	C-O	-6.80	1.16	1.24
1	Dd	11	MET	C-O	-6.80	1.16	1.24
1	Ga	23	ALA	C-O	-6.80	1.16	1.24
1	Gn	23	ALA	C-O	-6.80	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Fp	48	VAL	C-O	-6.80	1.16	1.24
1	Gp	23	ALA	C-O	-6.80	1.16	1.24
1	A3	57	VAL	C-O	-6.79	1.16	1.24
1	C6	46	VAL	C-O	-6.79	1.16	1.24
1	AX	57	VAL	C-O	-6.79	1.16	1.24
1	AC	57	VAL	C-O	-6.79	1.16	1.24
1	Dv	11	MET	C-O	-6.79	1.16	1.24
1	CE	46	VAL	C-O	-6.79	1.16	1.24
1	LC	53	GLU	C-O	-6.79	1.15	1.24
1	C5	46	VAL	C-O	-6.79	1.16	1.24
1	A8	57	VAL	C-O	-6.79	1.16	1.24
1	GS	53	GLU	C-O	-6.79	1.15	1.24
1	LR	53	GLU	C-O	-6.79	1.15	1.24
1	CK	46	VAL	C-O	-6.79	1.16	1.24
1	AN	57	VAL	C-O	-6.79	1.16	1.24
1	Ci	46	VAL	C-O	-6.79	1.16	1.24
1	Lg	53	GLU	C-O	-6.79	1.15	1.24
1	Ar	57	VAL	C-O	-6.79	1.16	1.24
1	Df	11	MET	C-O	-6.79	1.16	1.24
1	AC	37	GLY	C-O	-6.79	1.16	1.24
1	FR	53	GLU	C-O	-6.79	1.15	1.23
1	Ag	37	GLY	C-O	-6.79	1.16	1.24
1	Av	37	GLY	C-O	-6.79	1.16	1.24
1	L6	53	GLU	C-O	-6.78	1.15	1.24
1	Le	53	GLU	C-O	-6.78	1.15	1.24
1	AW	37	GLY	C-O	-6.78	1.16	1.24
1	Lt	53	GLU	C-O	-6.78	1.15	1.24
1	Lv	53	GLU	C-O	-6.78	1.15	1.24
1	Al	37	GLY	C-O	-6.78	1.16	1.24
1	Lp	53	GLU	C-O	-6.78	1.15	1.24
1	LI	53	GLU	C-O	-6.78	1.15	1.24
1	GE	23	ALA	C-O	-6.78	1.16	1.24
1	GT	23	ALA	C-O	-6.78	1.16	1.24
1	L1	53	GLU	C-O	-6.78	1.15	1.24
1	LV	53	GLU	C-O	-6.78	1.15	1.24
1	Lk	53	GLU	C-O	-6.78	1.15	1.24
1	Gt	77	ALA	C-O	-6.78	1.15	1.23
1	DM	11	MET	C-O	-6.78	1.16	1.24
1	CH	48	VAL	C-O	-6.78	1.16	1.24
1	Gb	19	PRO	C-O	-6.78	1.15	1.24
1	Fn	53	GLU	C-O	-6.78	1.15	1.23
1	FE	46	VAL	C-O	-6.77	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Fx	46	VAL	C-O	-6.77	1.16	1.24
1	Df	54	THR	C-O	6.77	1.32	1.24
1	AV	37	GLY	C-O	-6.77	1.16	1.24
1	C8	46	VAL	C-O	-6.77	1.16	1.24
1	Di	11	MET	C-O	-6.77	1.16	1.24
1	Dx	11	MET	C-O	-6.77	1.16	1.24
1	Dk	11	MET	C-O	-6.77	1.16	1.24
1	GP	19	PRO	C-O	-6.76	1.15	1.24
1	LS	53	GLU	C-O	-6.76	1.15	1.24
1	Ac	57	VAL	C-O	-6.76	1.16	1.24
1	Fs	46	VAL	C-O	-6.76	1.16	1.24
1	CC	46	VAL	C-O	-6.76	1.16	1.24
1	DA	11	MET	C-O	-6.76	1.16	1.24
1	GC	23	ALA	C-O	-6.76	1.16	1.24
1	G3	23	ALA	C-O	-6.76	1.16	1.24
1	A7	37	GLY	C-O	-6.76	1.16	1.24
1	L7	53	GLU	C-O	-6.76	1.15	1.24
1	GR	23	ALA	C-O	-6.76	1.16	1.24
1	FJ	53	GLU	C-O	-6.76	1.15	1.23
1	GI	23	ALA	C-O	-6.76	1.16	1.24
1	AM	37	GLY	C-O	-6.76	1.16	1.24
1	GL	23	ALA	C-O	-6.76	1.16	1.24
1	De	11	MET	C-O	-6.76	1.16	1.24
1	Ab	37	GLY	C-O	-6.76	1.16	1.24
1	Dt	11	MET	C-O	-6.76	1.16	1.24
1	HJ	79	HIS	C-O	-6.76	1.15	1.23
1	Ak	37	GLY	C-O	-6.76	1.16	1.24
1	Fk	53	GLU	C-O	-6.76	1.15	1.23
1	AB	37	GLY	C-O	-6.75	1.16	1.24
1	A2	37	GLY	C-O	-6.75	1.16	1.24
1	AQ	37	GLY	C-O	-6.75	1.16	1.24
1	AH	37	GLY	C-O	-6.75	1.16	1.24
1	LF	53	GLU	C-O	-6.75	1.15	1.24
1	Af	37	GLY	C-O	-6.75	1.16	1.24
1	A8	37	GLY	C-O	-6.75	1.16	1.24
1	AN	37	GLY	C-O	-6.75	1.16	1.24
1	Ar	37	GLY	C-O	-6.75	1.16	1.24
1	G1	23	ALA	C-O	-6.75	1.16	1.24
1	DE	11	MET	C-O	-6.75	1.16	1.24
1	F3	53	GLU	C-O	-6.75	1.15	1.23
1	DT	11	MET	C-O	-6.75	1.16	1.24
1	FI	53	GLU	C-O	-6.75	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Gg	23	ALA	C-O	-6.75	1.16	1.24
1	FX	53	GLU	C-O	-6.75	1.15	1.23
1	Dc	11	MET	C-O	-6.75	1.16	1.24
1	Aj	37	GLY	C-O	-6.75	1.16	1.24
1	Ij	77	ALA	C-O	-6.75	1.15	1.23
1	D8	11	MET	C-O	-6.75	1.16	1.24
1	GX	19	PRO	C-O	-6.75	1.15	1.24
1	Du	11	MET	C-O	-6.75	1.16	1.24
1	Gv	77	ALA	C-O	-6.75	1.15	1.23
1	Im	77	ALA	C-O	-6.75	1.15	1.23
1	D1	11	MET	C-O	-6.74	1.16	1.24
1	FT	46	VAL	C-O	-6.74	1.16	1.24
1	DG	11	MET	C-O	-6.74	1.16	1.24
1	CF	46	VAL	C-O	-6.74	1.16	1.24
1	Ge	77	ALA	C-O	-6.74	1.15	1.23
1	DV	11	MET	C-O	-6.74	1.16	1.24
1	Cg	48	VAL	C-O	-6.74	1.16	1.24
1	Cv	48	VAL	C-O	-6.74	1.16	1.24
1	Fs	53	GLU	C-O	-6.74	1.15	1.23
1	GD	53	GLU	C-O	-6.74	1.15	1.24
1	D3	11	MET	C-O	-6.74	1.16	1.24
1	L2	53	GLU	C-O	-6.74	1.15	1.24
1	G6	19	PRO	C-O	-6.74	1.15	1.24
1	G7	19	PRO	C-O	-6.74	1.15	1.24
1	LH	53	GLU	C-O	-6.74	1.15	1.24
1	DL	11	MET	C-O	-6.74	1.16	1.24
1	GL	19	PRO	C-O	-6.74	1.15	1.24
1	Dg	11	MET	C-O	-6.74	1.16	1.24
1	LW	53	GLU	C-O	-6.74	1.15	1.24
1	Da	11	MET	C-O	-6.74	1.16	1.24
1	Ga	19	PRO	C-O	-6.74	1.15	1.24
1	Lb	53	GLU	C-O	-6.74	1.15	1.24
1	Ll	53	GLU	C-O	-6.74	1.15	1.24
1	Gp	19	PRO	C-O	-6.74	1.15	1.24
1	Gq	19	PRO	C-O	-6.74	1.15	1.24
1	DI	11	MET	C-O	-6.74	1.16	1.24
1	D6	11	MET	C-O	-6.74	1.16	1.24
1	Ah	37	GLY	C-O	-6.74	1.16	1.24
1	F4	53	GLU	C-O	-6.74	1.15	1.23
1	D0	11	MET	C-O	-6.74	1.16	1.24
1	Gh	53	GLU	C-O	-6.74	1.15	1.24
1	Fa	53	GLU	C-O	-6.74	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Gw	53	GLU	C-O	-6.74	1.15	1.24
1	Fp	53	GLU	C-O	-6.74	1.15	1.23
1	II	77	ALA	C-O	-6.73	1.15	1.23
1	Gm	19	PRO	C-O	-6.73	1.15	1.24
1	LB	53	GLU	C-O	-6.73	1.15	1.24
1	LQ	53	GLU	C-O	-6.73	1.15	1.24
1	Ca	48	VAL	C-O	-6.73	1.16	1.24
1	Cp	48	VAL	C-O	-6.73	1.16	1.24
1	LX	53	GLU	C-O	-6.73	1.15	1.24
1	L3	53	GLU	C-O	-6.73	1.15	1.24
1	DC	11	MET	C-O	-6.73	1.16	1.24
1	GN	77	ALA	C-O	-6.73	1.15	1.23
1	DR	11	MET	C-O	-6.73	1.16	1.24
1	F5	53	GLU	C-O	-6.73	1.15	1.23
1	F8	53	GLU	C-O	-6.73	1.15	1.23
1	AI	57	VAL	C-O	-6.73	1.16	1.24
1	FK	53	GLU	C-O	-6.73	1.15	1.23
1	FN	53	GLU	C-O	-6.73	1.15	1.23
1	FZ	53	GLU	C-O	-6.73	1.15	1.23
1	Fr	53	GLU	C-O	-6.73	1.15	1.23
1	FE	53	GLU	C-O	-6.73	1.15	1.23
1	G1	19	PRO	C-O	-6.73	1.15	1.24
1	FT	53	GLU	C-O	-6.73	1.15	1.23
1	GG	19	PRO	C-O	-6.73	1.15	1.24
1	LL	53	GLU	C-O	-6.73	1.15	1.24
1	Fi	53	GLU	C-O	-6.73	1.15	1.23
1	GV	19	PRO	C-O	-6.73	1.15	1.24
1	Fc	53	GLU	C-O	-6.73	1.15	1.23
1	Fo	53	GLU	C-O	-6.73	1.15	1.23
1	Gk	19	PRO	C-O	-6.73	1.15	1.24
1	D5	11	MET	C-O	-6.72	1.16	1.24
1	C7	48	VAL	C-O	-6.72	1.16	1.24
1	FP	53	GLU	C-O	-6.72	1.15	1.23
1	LG	53	GLU	C-O	-6.72	1.15	1.24
1	CM	48	VAL	C-O	-6.72	1.16	1.24
1	DZ	11	MET	C-O	-6.72	1.16	1.24
1	Lc	53	GLU	C-O	-6.72	1.15	1.24
1	Fx	53	GLU	C-O	-6.72	1.15	1.23
1	Do	11	MET	C-O	-6.72	1.16	1.24
1	Lr	53	GLU	C-O	-6.72	1.15	1.24
1	CL	46	VAL	C-O	-6.72	1.17	1.24
1	GX	23	ALA	C-O	-6.72	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Gv	23	ALA	C-O	-6.72	1.16	1.24
1	Gm	23	ALA	C-O	-6.72	1.16	1.24
1	GA	19	PRO	C-O	-6.72	1.15	1.24
1	CB	48	VAL	C-O	-6.72	1.16	1.24
1	F1	53	GLU	C-O	-6.72	1.15	1.23
1	F2	53	GLU	C-O	-6.72	1.15	1.23
1	F0	53	GLU	C-O	-6.72	1.15	1.23
1	F9	53	GLU	C-O	-6.72	1.15	1.23
1	CQ	48	VAL	C-O	-6.72	1.16	1.24
1	FG	53	GLU	C-O	-6.72	1.15	1.23
1	FH	53	GLU	C-O	-6.72	1.15	1.23
1	FO	53	GLU	C-O	-6.72	1.15	1.23
1	FW	53	GLU	C-O	-6.72	1.15	1.23
1	Fj	53	GLU	C-O	-6.72	1.15	1.23
1	Fl	53	GLU	C-O	-6.72	1.15	1.23
1	Cb	48	VAL	C-O	-6.71	1.16	1.24
1	Fa	48	VAL	C-O	-6.71	1.16	1.24
1	Cr	48	VAL	C-O	-6.71	1.16	1.24
1	FD	53	GLU	C-O	-6.71	1.15	1.23
1	FS	53	GLU	C-O	-6.71	1.15	1.23
1	FM	53	GLU	C-O	-6.71	1.15	1.23
1	Fb	53	GLU	C-O	-6.71	1.15	1.23
1	Fw	53	GLU	C-O	-6.71	1.15	1.23
1	Fh	53	GLU	C-O	-6.71	1.15	1.23
1	Fq	53	GLU	C-O	-6.71	1.15	1.23
1	AD	37	GLY	C-O	-6.71	1.16	1.24
1	FN	48	VAL	C-O	-6.71	1.16	1.24
1	DX	11	MET	C-O	-6.71	1.16	1.24
1	Dm	11	MET	C-O	-6.71	1.16	1.24
1	Fm	53	GLU	C-O	-6.71	1.15	1.23
1	Fr	48	VAL	C-O	-6.71	1.16	1.24
1	GJ	53	GLU	C-O	-6.71	1.15	1.24
1	C2	48	VAL	C-O	-6.71	1.16	1.24
1	G3	19	PRO	C-O	-6.71	1.15	1.24
1	H4	79	HIS	C-O	-6.71	1.16	1.23
1	GI	19	PRO	C-O	-6.71	1.15	1.24
1	GO	19	PRO	C-O	-6.71	1.15	1.24
1	Cf	48	VAL	C-O	-6.71	1.16	1.24
1	CW	48	VAL	C-O	-6.71	1.16	1.24
1	HY	79	HIS	C-O	-6.71	1.16	1.23
1	CU	46	VAL	C-O	-6.71	1.17	1.24
1	Hb	79	HIS	C-O	-6.71	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Cu	48	VAL	C-O	-6.71	1.16	1.24
1	Cj	46	VAL	C-O	-6.71	1.17	1.24
1	Dr	11	MET	C-O	-6.71	1.16	1.24
1	DN	11	MET	C-O	-6.70	1.16	1.24
1	FA	53	GLU	C-O	-6.70	1.15	1.23
1	Ft	53	GLU	C-O	-6.70	1.15	1.23
1	Aq	37	GLY	C-O	-6.70	1.16	1.24
1	LD	53	GLU	C-O	-6.70	1.15	1.24
1	H5	79	HIS	C-O	-6.70	1.16	1.23
1	GR	19	PRO	C-O	-6.70	1.15	1.24
1	HK	79	HIS	C-O	-6.70	1.16	1.23
1	HZ	79	HIS	C-O	-6.70	1.16	1.23
1	HE	79	HIS	C-O	-6.70	1.16	1.23
1	HT	79	HIS	C-O	-6.70	1.16	1.23
1	Hn	79	HIS	C-O	-6.70	1.16	1.23
1	Cq	48	VAL	C-O	-6.70	1.16	1.24
1	L8	53	GLU	C-O	-6.70	1.15	1.24
1	HP	79	HIS	C-O	-6.70	1.16	1.23
1	CF	48	VAL	C-O	-6.70	1.16	1.24
1	LN	53	GLU	C-O	-6.70	1.15	1.24
1	LJ	53	GLU	C-O	-6.69	1.15	1.24
1	Lw	53	GLU	C-O	-6.69	1.15	1.24
1	LM	53	GLU	C-O	-6.69	1.15	1.24
1	I8	77	ALA	C-O	-6.69	1.15	1.23
1	FV	53	GLU	C-O	-6.69	1.15	1.23
1	Gd	19	PRO	C-O	-6.69	1.15	1.24
1	Ir	77	ALA	C-O	-6.69	1.15	1.23
1	Dj	11	MET	C-O	-6.69	1.16	1.24
1	DU	11	MET	C-O	-6.69	1.16	1.24
1	FB	53	GLU	C-O	-6.69	1.15	1.23
1	FQ	53	GLU	C-O	-6.69	1.15	1.23
1	GS	19	PRO	C-O	-6.69	1.15	1.24
1	Ff	53	GLU	C-O	-6.69	1.15	1.23
1	FU	53	GLU	C-O	-6.69	1.15	1.23
1	FY	53	GLU	C-O	-6.69	1.15	1.23
1	AS	37	GLY	C-O	-6.69	1.16	1.24
1	Cc	48	VAL	C-O	-6.69	1.16	1.24
1	Aw	37	GLY	C-O	-6.69	1.16	1.24
1	L9	53	GLU	C-O	-6.69	1.15	1.24
1	LO	53	GLU	C-O	-6.69	1.15	1.24
1	Ld	53	GLU	C-O	-6.69	1.15	1.24
1	Ls	53	GLU	C-O	-6.69	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G7	53	GLU	C-O	-6.68	1.15	1.24
1	I0	77	ALA	C-O	-6.68	1.15	1.23
1	GM	53	GLU	C-O	-6.68	1.15	1.24
1	GY	53	GLU	C-O	-6.68	1.15	1.24
1	Gb	53	GLU	C-O	-6.68	1.15	1.24
1	Gc	77	ALA	C-O	-6.68	1.15	1.23
1	HU	79	HIS	C-O	-6.68	1.16	1.23
1	Gq	53	GLU	C-O	-6.68	1.15	1.24
1	Hj	79	HIS	C-O	-6.68	1.16	1.23
1	HA	79	HIS	C-O	-6.68	1.16	1.23
1	I3	77	ALA	C-O	-6.68	1.15	1.23
1	DP	11	MET	C-O	-6.68	1.16	1.24
1	Ge	19	PRO	C-O	-6.68	1.15	1.24
1	He	79	HIS	C-O	-6.68	1.16	1.23
1	IX	77	ALA	C-O	-6.68	1.15	1.23
1	Bu	50	VAL	C-O	-6.68	1.17	1.24
1	IN	77	ALA	C-O	-6.68	1.15	1.23
1	Gg	19	PRO	C-O	-6.68	1.15	1.24
1	GD	19	PRO	C-O	-6.68	1.15	1.24
1	C3	48	VAL	C-O	-6.68	1.16	1.24
1	C6	48	VAL	C-O	-6.68	1.16	1.24
1	CL	48	VAL	C-O	-6.68	1.16	1.24
1	CO	48	VAL	C-O	-6.68	1.16	1.24
1	FX	48	VAL	C-O	-6.68	1.16	1.24
1	GY	77	ALA	C-O	-6.68	1.15	1.23
1	Fm	48	VAL	C-O	-6.68	1.16	1.24
1	Gn	77	ALA	C-O	-6.68	1.15	1.23
1	FC	48	VAL	C-O	-6.68	1.16	1.24
1	C1	48	VAL	C-O	-6.68	1.16	1.24
1	F3	48	VAL	C-O	-6.68	1.16	1.24
1	FR	48	VAL	C-O	-6.68	1.16	1.24
1	CG	48	VAL	C-O	-6.68	1.16	1.24
1	Fg	48	VAL	C-O	-6.68	1.16	1.24
1	AY	37	GLY	C-O	-6.68	1.16	1.24
1	CV	48	VAL	C-O	-6.68	1.16	1.24
1	Fv	48	VAL	C-O	-6.68	1.16	1.24
1	An	37	GLY	C-O	-6.68	1.16	1.24
1	GA	77	ALA	C-O	-6.68	1.15	1.23
1	GE	19	PRO	C-O	-6.68	1.15	1.24
1	A4	37	GLY	C-O	-6.68	1.16	1.24
1	G5	19	PRO	C-O	-6.68	1.15	1.24
1	GP	77	ALA	C-O	-6.68	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	GT	19	PRO	C-O	-6.68	1.15	1.24
1	AJ	37	GLY	C-O	-6.68	1.16	1.24
1	IF	77	ALA	C-O	-6.68	1.15	1.23
1	Fe	53	GLU	C-O	-6.68	1.15	1.23
1	Gi	19	PRO	C-O	-6.68	1.15	1.24
1	GZ	19	PRO	C-O	-6.68	1.15	1.24
1	Fd	53	GLU	C-O	-6.68	1.15	1.23
1	Go	19	PRO	C-O	-6.68	1.15	1.24
1	Dp	11	MET	C-O	-6.68	1.16	1.24
1	G8	19	PRO	C-O	-6.67	1.15	1.24
1	GN	19	PRO	C-O	-6.67	1.15	1.24
1	Lf	53	GLU	C-O	-6.67	1.15	1.24
1	Lu	53	GLU	C-O	-6.67	1.15	1.24
1	Gr	19	PRO	C-O	-6.67	1.15	1.24
1	FL	48	VAL	C-O	-6.67	1.16	1.24
1	GC	77	ALA	C-O	-6.67	1.15	1.23
1	F6	53	GLU	C-O	-6.67	1.15	1.23
1	F7	53	GLU	C-O	-6.67	1.15	1.23
1	H0	79	HIS	C-O	-6.67	1.16	1.23
1	GR	77	ALA	C-O	-6.67	1.15	1.23
1	HF	79	HIS	C-O	-6.67	1.16	1.23
1	IV	77	ALA	C-O	-6.67	1.15	1.23
1	Ik	77	ALA	C-O	-6.67	1.15	1.23
1	FL	53	GLU	C-O	-6.67	1.15	1.23
1	CC	48	VAL	C-O	-6.67	1.16	1.24
1	G9	19	PRO	C-O	-6.67	1.15	1.24
1	CR	48	VAL	C-O	-6.67	1.16	1.24
1	Gg	77	ALA	C-O	-6.67	1.15	1.23
1	Lh	53	GLU	C-O	-6.67	1.15	1.24
1	CX	48	VAL	C-O	-6.67	1.16	1.24
1	Ga	77	ALA	C-O	-6.67	1.15	1.23
1	IU	77	ALA	C-O	-6.67	1.15	1.23
1	Cl	48	VAL	C-O	-6.67	1.16	1.24
1	Cm	48	VAL	C-O	-6.67	1.16	1.24
1	Cj	48	VAL	C-O	-6.67	1.16	1.24
1	Gp	77	ALA	C-O	-6.67	1.15	1.23
1	Lq	53	GLU	C-O	-6.67	1.15	1.24
1	Io	77	ALA	C-O	-6.67	1.15	1.23
1	GC	19	PRO	C-O	-6.67	1.15	1.24
1	Gv	19	PRO	C-O	-6.67	1.15	1.24
1	Bg	51	ARG	C-O	-6.67	1.16	1.23
1	Bv	51	ARG	C-O	-6.67	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G3	77	ALA	C-O	-6.67	1.15	1.23
1	G4	53	GLU	C-O	-6.67	1.15	1.24
1	G8	77	ALA	C-O	-6.67	1.15	1.23
1	GI	77	ALA	C-O	-6.67	1.15	1.23
1	Hi	79	HIS	C-O	-6.67	1.16	1.23
1	GX	77	ALA	C-O	-6.67	1.15	1.23
1	Hx	79	HIS	C-O	-6.67	1.16	1.23
1	Gn	53	GLU	C-O	-6.67	1.15	1.24
1	G6	77	ALA	C-O	-6.66	1.15	1.23
1	GL	77	ALA	C-O	-6.66	1.15	1.23
1	HM	79	HIS	C-O	-6.66	1.16	1.23
1	C0	48	VAL	C-O	-6.66	1.16	1.24
1	G4	19	PRO	C-O	-6.66	1.15	1.24
1	F8	48	VAL	C-O	-6.66	1.16	1.24
1	DK	11	MET	C-O	-6.66	1.16	1.24
1	GY	19	PRO	C-O	-6.66	1.15	1.24
1	Fc	48	VAL	C-O	-6.66	1.16	1.24
1	Gn	19	PRO	C-O	-6.66	1.15	1.24
1	Cx	48	VAL	C-O	-6.66	1.16	1.24
1	L4	53	GLU	C-O	-6.66	1.15	1.24
1	A9	37	GLY	C-O	-6.66	1.16	1.24
1	Ad	37	GLY	C-O	-6.66	1.16	1.24
1	Ic	77	ALA	C-O	-6.66	1.15	1.23
1	Ao	77	ALA	C-O	-6.66	1.15	1.23
1	Gm	77	ALA	C-O	-6.66	1.15	1.23
1	HN	79	HIS	C-O	-6.65	1.16	1.23
1	HD	79	HIS	C-O	-6.65	1.16	1.23
1	C9	48	VAL	C-O	-6.65	1.16	1.24
1	H7	79	HIS	C-O	-6.65	1.16	1.23
1	HS	79	HIS	C-O	-6.65	1.16	1.23
1	Cd	48	VAL	C-O	-6.65	1.16	1.24
1	Ho	79	HIS	C-O	-6.65	1.16	1.23
1	Hq	79	HIS	C-O	-6.65	1.16	1.23
1	H1	79	HIS	C-O	-6.65	1.16	1.23
1	H9	79	HIS	C-O	-6.65	1.16	1.23
1	HG	79	HIS	C-O	-6.65	1.16	1.23
1	AO	37	GLY	C-O	-6.65	1.16	1.24
1	FM	48	VAL	C-O	-6.65	1.16	1.24
1	HO	79	HIS	C-O	-6.65	1.16	1.23
1	Ce	48	VAL	C-O	-6.65	1.16	1.24
1	HV	79	HIS	C-O	-6.65	1.16	1.23
1	Hd	79	HIS	C-O	-6.65	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ct	48	VAL	C-O	-6.65	1.16	1.24
1	Ck	48	VAL	C-O	-6.65	1.16	1.24
1	Hk	79	HIS	C-O	-6.65	1.16	1.23
1	Bq	51	ARG	C-O	-6.65	1.16	1.23
1	Hs	79	HIS	C-O	-6.65	1.16	1.23
1	Gc	53	GLU	C-O	-6.65	1.15	1.24
1	H2	79	HIS	C-O	-6.65	1.16	1.23
1	HW	79	HIS	C-O	-6.65	1.16	1.23
1	FB	48	VAL	C-O	-6.64	1.17	1.24
1	G9	53	GLU	C-O	-6.64	1.15	1.24
1	FQ	48	VAL	C-O	-6.64	1.17	1.24
1	GO	53	GLU	C-O	-6.64	1.15	1.24
1	H3	79	HIS	C-O	-6.64	1.16	1.23
1	G7	77	ALA	C-O	-6.64	1.15	1.23
1	H6	79	HIS	C-O	-6.64	1.16	1.23
1	HI	79	HIS	C-O	-6.64	1.16	1.23
1	GM	77	ALA	C-O	-6.64	1.15	1.23
1	HL	79	HIS	C-O	-6.64	1.16	1.23
1	GV	77	ALA	C-O	-6.64	1.15	1.23
1	HX	79	HIS	C-O	-6.64	1.16	1.23
1	Gb	77	ALA	C-O	-6.64	1.15	1.23
1	Hm	79	HIS	C-O	-6.64	1.16	1.23
1	Hp	79	HIS	C-O	-6.64	1.16	1.23
1	As	37	GLY	C-O	-6.64	1.16	1.24
1	CJ	48	VAL	C-O	-6.64	1.16	1.24
1	FI	48	VAL	C-O	-6.64	1.17	1.24
1	BT	51	ARG	C-O	-6.64	1.16	1.23
1	Gr	77	ALA	C-O	-6.64	1.15	1.23
1	F6	48	VAL	C-O	-6.64	1.17	1.24
1	CI	48	VAL	C-O	-6.64	1.16	1.24
1	GK	19	PRO	C-O	-6.64	1.15	1.24
1	Gc	19	PRO	C-O	-6.64	1.15	1.24
1	HH	79	HIS	C-O	-6.63	1.16	1.23
1	Bh	50	VAL	C-O	-6.63	1.17	1.24
1	IA	77	ALA	C-O	-6.63	1.15	1.23
1	I5	77	ALA	C-O	-6.63	1.15	1.23
1	I9	77	ALA	C-O	-6.63	1.15	1.23
1	IP	77	ALA	C-O	-6.63	1.15	1.23
1	IG	77	ALA	C-O	-6.63	1.15	1.23
1	IK	77	ALA	C-O	-6.63	1.15	1.23
1	IO	77	ALA	C-O	-6.63	1.15	1.23
1	Ie	77	ALA	C-O	-6.63	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	IZ	77	ALA	C-O	-6.63	1.15	1.23
1	Id	77	ALA	C-O	-6.63	1.15	1.23
1	It	77	ALA	C-O	-6.63	1.15	1.23
1	Iq	77	ALA	C-O	-6.63	1.15	1.23
1	Is	77	ALA	C-O	-6.63	1.15	1.23
1	IC	77	ALA	C-O	-6.63	1.15	1.23
1	F9	48	VAL	C-O	-6.63	1.17	1.24
1	IR	77	ALA	C-O	-6.63	1.15	1.23
1	FO	48	VAL	C-O	-6.63	1.17	1.24
1	Ig	77	ALA	C-O	-6.63	1.15	1.23
1	Ia	77	ALA	C-O	-6.63	1.15	1.23
1	Iv	77	ALA	C-O	-6.63	1.15	1.23
1	Gs	53	GLU	C-O	-6.63	1.15	1.24
1	Hf	79	HIS	C-O	-6.63	1.16	1.23
1	Fq	48	VAL	C-O	-6.63	1.17	1.24
1	C5	48	VAL	C-O	-6.63	1.16	1.24
1	C8	48	VAL	C-O	-6.63	1.16	1.24
1	CK	48	VAL	C-O	-6.63	1.16	1.24
1	CN	48	VAL	C-O	-6.63	1.16	1.24
1	Ci	48	VAL	C-O	-6.63	1.16	1.24
1	Gi	53	GLU	C-O	-6.63	1.15	1.24
1	LY	53	GLU	C-O	-6.63	1.15	1.24
1	CU	48	VAL	C-O	-6.63	1.16	1.24
1	Fu	53	GLU	C-O	-6.63	1.15	1.23
1	Gt	19	PRO	C-O	-6.63	1.15	1.24
1	Gx	53	GLU	C-O	-6.63	1.15	1.24
1	CA	48	VAL	C-O	-6.63	1.16	1.24
1	I6	77	ALA	C-O	-6.63	1.15	1.23
1	CP	48	VAL	C-O	-6.63	1.16	1.24
1	CY	48	VAL	C-O	-6.63	1.16	1.24
1	Cn	48	VAL	C-O	-6.63	1.16	1.24
1	Cs	48	VAL	C-O	-6.63	1.16	1.24
1	CE	48	VAL	C-O	-6.62	1.16	1.24
1	HC	79	HIS	C-O	-6.62	1.16	1.23
1	HR	79	HIS	C-O	-6.62	1.16	1.23
1	AU	77	ALA	C-O	-6.62	1.15	1.23
1	Aj	77	ALA	C-O	-6.62	1.15	1.23
1	Ch	48	VAL	C-O	-6.62	1.16	1.24
1	Ba	51	ARG	C-O	-6.62	1.16	1.23
1	BA	50	VAL	C-O	-6.62	1.17	1.24
1	FA	48	VAL	C-O	-6.62	1.17	1.24
1	F1	48	VAL	C-O	-6.62	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BP	50	VAL	C-O	-6.62	1.17	1.24
1	FP	48	VAL	C-O	-6.62	1.17	1.24
1	FG	48	VAL	C-O	-6.62	1.17	1.24
1	Be	50	VAL	C-O	-6.62	1.17	1.24
1	BZ	51	ARG	C-O	-6.62	1.16	1.23
1	FV	48	VAL	C-O	-6.62	1.17	1.24
1	Gx	19	PRO	C-O	-6.62	1.15	1.24
1	Fk	48	VAL	C-O	-6.62	1.17	1.24
1	H8	79	HIS	C-O	-6.62	1.16	1.23
1	HB	79	HIS	C-O	-6.62	1.16	1.23
1	F7	48	VAL	C-O	-6.62	1.17	1.24
1	HQ	79	HIS	C-O	-6.62	1.16	1.23
1	Fb	48	VAL	C-O	-6.62	1.17	1.24
1	Hu	79	HIS	C-O	-6.62	1.16	1.23
1	GK	53	GLU	C-O	-6.62	1.15	1.24
1	IW	77	ALA	C-O	-6.62	1.15	1.23
1	Il	77	ALA	C-O	-6.62	1.15	1.23
1	BC	50	VAL	C-O	-6.61	1.17	1.24
1	BR	50	VAL	C-O	-6.61	1.17	1.24
1	Bm	51	ARG	C-O	-6.61	1.16	1.23
1	Gq	77	ALA	C-O	-6.61	1.15	1.23
1	Fe	48	VAL	C-O	-6.61	1.17	1.24
1	Ft	48	VAL	C-O	-6.61	1.17	1.24
1	Ln	53	GLU	C-O	-6.61	1.15	1.24
1	BD	50	VAL	C-O	-6.61	1.17	1.24
1	CD	48	VAL	C-O	-6.61	1.16	1.24
1	C4	48	VAL	C-O	-6.61	1.16	1.24
1	G4	77	ALA	C-O	-6.61	1.15	1.23
1	BS	50	VAL	C-O	-6.61	1.17	1.24
1	GJ	77	ALA	C-O	-6.61	1.15	1.23
1	Gh	19	PRO	C-O	-6.61	1.15	1.24
1	Ga	53	GLU	C-O	-6.61	1.15	1.24
1	Bw	50	VAL	C-O	-6.61	1.17	1.24
1	Gv	53	GLU	C-O	-6.61	1.15	1.24
1	Gp	53	GLU	C-O	-6.61	1.15	1.24
1	Ht	79	HIS	C-O	-6.61	1.16	1.23
1	BE	50	VAL	C-O	-6.61	1.17	1.24
1	G1	77	ALA	C-O	-6.61	1.15	1.23
1	I2	77	ALA	C-O	-6.61	1.15	1.23
1	G9	77	ALA	C-O	-6.61	1.15	1.23
1	FJ	48	VAL	C-O	-6.61	1.17	1.24
1	GG	77	ALA	C-O	-6.61	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	GO	77	ALA	C-O	-6.61	1.15	1.23
1	GN	53	GLU	C-O	-6.61	1.15	1.24
1	Gk	77	ALA	C-O	-6.61	1.15	1.23
1	Gr	53	GLU	C-O	-6.61	1.15	1.24
1	Kv	19	PRO	C-O	-6.60	1.15	1.24
1	BC	51	ARG	C-O	-6.60	1.16	1.23
1	ID	77	ALA	C-O	-6.60	1.15	1.23
2	PC	28	TRP	C-O	-6.60	1.16	1.23
1	B4	50	VAL	C-O	-6.60	1.17	1.24
1	BR	51	ARG	C-O	-6.60	1.16	1.23
1	IS	77	ALA	C-O	-6.60	1.15	1.23
1	BJ	50	VAL	C-O	-6.60	1.17	1.24
1	If	77	ALA	C-O	-6.60	1.15	1.23
1	Ib	77	ALA	C-O	-6.60	1.15	1.23
1	Iu	77	ALA	C-O	-6.60	1.15	1.23
1	Bn	50	VAL	C-O	-6.60	1.17	1.24
1	BB	50	VAL	C-O	-6.60	1.17	1.24
1	Bf	50	VAL	C-O	-6.60	1.17	1.24
1	I7	77	ALA	C-O	-6.60	1.15	1.23
1	IM	77	ALA	C-O	-6.60	1.15	1.23
1	AZ	12	ILE	C-O	-6.60	1.16	1.24
1	CZ	48	VAL	C-O	-6.60	1.16	1.24
1	Co	48	VAL	C-O	-6.60	1.16	1.24
1	In	77	ALA	C-O	-6.60	1.15	1.23
1	As	77	ALA	C-O	-6.60	1.16	1.23
1	G1	53	GLU	C-O	-6.60	1.15	1.24
1	AS	77	ALA	C-O	-6.60	1.16	1.23
1	CT	48	VAL	C-O	-6.60	1.16	1.24
1	GG	53	GLU	C-O	-6.60	1.15	1.24
1	Ge	53	GLU	C-O	-6.60	1.15	1.24
1	GV	53	GLU	C-O	-6.60	1.15	1.24
1	Gk	53	GLU	C-O	-6.60	1.15	1.24
1	IB	77	ALA	C-O	-6.59	1.15	1.23
1	IE	77	ALA	C-O	-6.59	1.15	1.23
1	IQ	77	ALA	C-O	-6.59	1.15	1.23
1	IT	77	ALA	C-O	-6.59	1.15	1.23
1	Ii	77	ALA	C-O	-6.59	1.15	1.23
1	Cw	48	VAL	C-O	-6.59	1.16	1.24
2	Pt	28	TRP	C-O	-6.59	1.16	1.23
1	Hl	79	HIS	C-O	-6.59	1.16	1.23
1	I1	77	ALA	C-O	-6.59	1.15	1.23
1	Fi	48	VAL	C-O	-6.59	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	GR	53	GLU	C-O	-6.59	1.15	1.24
1	BY	50	VAL	C-O	-6.59	1.17	1.24
1	Ao	12	ILE	C-O	-6.59	1.16	1.24
1	GJ	19	PRO	C-O	-6.59	1.15	1.24
1	AW	77	ALA	C-O	-6.59	1.16	1.23
1	AU	12	ILE	C-O	-6.59	1.16	1.24
1	Al	77	ALA	C-O	-6.59	1.16	1.23
1	Aj	12	ILE	C-O	-6.59	1.16	1.24
1	Fd	48	VAL	C-O	-6.59	1.17	1.24
1	Fs	48	VAL	C-O	-6.59	1.17	1.24
1	BE	51	ARG	C-O	-6.59	1.16	1.23
1	Bi	51	ARG	C-O	-6.59	1.16	1.23
1	Hh	79	HIS	C-O	-6.59	1.16	1.23
1	Hc	79	HIS	C-O	-6.59	1.16	1.23
1	Bx	51	ARG	C-O	-6.59	1.16	1.23
1	Hw	79	HIS	C-O	-6.59	1.16	1.23
1	B3	50	VAL	C-O	-6.58	1.17	1.24
1	BI	50	VAL	C-O	-6.58	1.17	1.24
1	Bg	50	VAL	C-O	-6.58	1.17	1.24
1	BX	50	VAL	C-O	-6.58	1.17	1.24
1	BY	51	ARG	C-O	-6.58	1.16	1.23
1	Ha	79	HIS	C-O	-6.58	1.16	1.23
1	Bv	50	VAL	C-O	-6.58	1.17	1.24
1	Bm	50	VAL	C-O	-6.58	1.17	1.24
1	AE	77	ALA	C-O	-6.58	1.16	1.23
1	GA	53	GLU	C-O	-6.58	1.15	1.24
1	AT	77	ALA	C-O	-6.58	1.16	1.23
1	BR	52	GLY	C-O	-6.58	1.16	1.24
1	CS	48	VAL	C-O	-6.58	1.16	1.24
1	GP	53	GLU	C-O	-6.58	1.15	1.24
1	Ai	77	ALA	C-O	-6.58	1.16	1.23
1	Ad	77	ALA	C-O	-6.58	1.16	1.23
1	Ax	77	ALA	C-O	-6.58	1.16	1.23
1	Gt	53	GLU	C-O	-6.58	1.15	1.24
1	Gs	19	PRO	C-O	-6.58	1.15	1.24
1	A0	77	ALA	C-O	-6.58	1.16	1.23
1	AF	77	ALA	C-O	-6.58	1.16	1.23
1	Oe	12	ILE	C-O	-6.58	1.17	1.24
1	Bd	50	VAL	C-O	-6.58	1.17	1.24
1	Gd	77	ALA	C-O	-6.58	1.15	1.23
1	Bs	50	VAL	C-O	-6.58	1.17	1.24
1	Gs	77	ALA	C-O	-6.58	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	IL	77	ALA	C-O	-6.58	1.15	1.23
1	Ip	77	ALA	C-O	-6.58	1.15	1.23
1	FE	48	VAL	C-O	-6.57	1.17	1.24
1	F2	48	VAL	C-O	-6.57	1.17	1.24
1	G5	77	ALA	C-O	-6.57	1.15	1.23
1	B9	50	VAL	C-O	-6.57	1.17	1.24
1	FT	48	VAL	C-O	-6.57	1.17	1.24
1	FH	48	VAL	C-O	-6.57	1.17	1.24
1	Ff	48	VAL	C-O	-6.57	1.17	1.24
1	Fu	48	VAL	C-O	-6.57	1.17	1.24
1	Gw	19	PRO	C-O	-6.57	1.16	1.24
1	A5	77	ALA	C-O	-6.57	1.16	1.23
1	B0	50	VAL	C-O	-6.57	1.17	1.24
1	AK	77	ALA	C-O	-6.57	1.16	1.23
1	BF	50	VAL	C-O	-6.57	1.17	1.24
1	AZ	77	ALA	C-O	-6.57	1.16	1.23
1	Bj	50	VAL	C-O	-6.57	1.17	1.24
1	B3	51	ARG	C-O	-6.57	1.16	1.23
1	BI	51	ARG	C-O	-6.57	1.16	1.23
1	BL	51	ARG	C-O	-6.57	1.16	1.23
1	Ih	77	ALA	C-O	-6.57	1.15	1.23
1	Kg	19	PRO	C-O	-6.57	1.15	1.24
1	Iw	77	ALA	C-O	-6.57	1.15	1.23
1	Bp	51	ARG	C-O	-6.57	1.16	1.23
1	B2	50	VAL	C-O	-6.57	1.17	1.24
1	B5	51	ARG	C-O	-6.57	1.16	1.23
1	I4	77	ALA	C-O	-6.57	1.15	1.23
2	PR	28	TRP	C-O	-6.57	1.16	1.23
1	BH	50	VAL	C-O	-6.57	1.17	1.24
1	IJ	77	ALA	C-O	-6.57	1.15	1.23
1	BW	50	VAL	C-O	-6.57	1.17	1.24
1	Bo	51	ARG	C-O	-6.57	1.16	1.23
1	BQ	50	VAL	C-O	-6.57	1.17	1.24
1	GT	53	GLU	C-O	-6.57	1.15	1.24
1	Hg	79	HIS	C-O	-6.57	1.16	1.23
1	IY	77	ALA	C-O	-6.57	1.15	1.23
1	Gd	53	GLU	C-O	-6.57	1.15	1.24
1	BA	51	ARG	C-O	-6.57	1.16	1.23
1	B7	51	ARG	C-O	-6.57	1.16	1.23
1	BP	51	ARG	C-O	-6.57	1.16	1.23
1	BM	51	ARG	C-O	-6.57	1.16	1.23
1	Be	51	ARG	C-O	-6.57	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AX	77	ALA	C-O	-6.57	1.16	1.23
1	Bb	51	ARG	C-O	-6.57	1.16	1.23
1	At	77	ALA	C-O	-6.57	1.16	1.23
1	Bt	51	ARG	C-O	-6.57	1.16	1.23
1	Am	77	ALA	C-O	-6.57	1.16	1.23
1	G3	53	GLU	C-O	-6.56	1.15	1.24
1	G6	53	GLU	C-O	-6.56	1.15	1.24
1	G8	53	GLU	C-O	-6.56	1.15	1.24
1	GI	53	GLU	C-O	-6.56	1.15	1.24
1	GL	53	GLU	C-O	-6.56	1.15	1.24
1	GX	53	GLU	C-O	-6.56	1.15	1.24
1	Gm	53	GLU	C-O	-6.56	1.15	1.24
1	KQ	9	LEU	C-O	-6.56	1.15	1.24
1	BF	51	ARG	C-O	-6.56	1.16	1.23
1	DO	50	VAL	C-O	-6.56	1.17	1.24
1	F5	48	VAL	C-O	-6.56	1.17	1.24
1	FK	48	VAL	C-O	-6.56	1.17	1.24
1	IH	77	ALA	C-O	-6.56	1.15	1.23
1	Hv	79	HIS	C-O	-6.56	1.16	1.23
1	Kq	9	LEU	C-O	-6.56	1.15	1.24
1	KB	19	PRO	C-O	-6.56	1.15	1.24
1	A8	77	ALA	C-O	-6.56	1.16	1.23
1	KQ	19	PRO	C-O	-6.56	1.15	1.24
1	AN	77	ALA	C-O	-6.56	1.16	1.23
1	Ac	77	ALA	C-O	-6.56	1.16	1.23
1	Ix	77	ALA	C-O	-6.56	1.15	1.23
1	Ku	19	PRO	C-O	-6.56	1.15	1.24
1	G5	53	GLU	C-O	-6.56	1.15	1.24
1	AH	77	ALA	C-O	-6.56	1.16	1.23
1	Go	53	GLU	C-O	-6.56	1.15	1.24
1	GZ	77	ALA	C-O	-6.55	1.15	1.23
1	Kf	19	PRO	C-O	-6.55	1.15	1.24
1	Kl	19	PRO	C-O	-6.55	1.15	1.24
1	AD	77	ALA	C-O	-6.55	1.16	1.23
1	FD	48	VAL	C-O	-6.55	1.17	1.24
1	A1	77	ALA	C-O	-6.55	1.16	1.23
1	B1	50	VAL	C-O	-6.55	1.17	1.24
1	F4	48	VAL	C-O	-6.55	1.17	1.24
1	A9	77	ALA	C-O	-6.55	1.16	1.23
1	FS	48	VAL	C-O	-6.55	1.17	1.24
1	AG	77	ALA	C-O	-6.55	1.16	1.23
1	BG	50	VAL	C-O	-6.55	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AO	77	ALA	C-O	-6.55	1.16	1.23
1	Ah	77	ALA	C-O	-6.55	1.16	1.23
1	FZ	48	VAL	C-O	-6.55	1.17	1.24
1	Aw	77	ALA	C-O	-6.55	1.16	1.23
1	Bt	50	VAL	C-O	-6.55	1.17	1.24
1	Ak	77	ALA	C-O	-6.55	1.16	1.23
1	Fo	48	VAL	C-O	-6.55	1.17	1.24
1	B8	51	ARG	C-O	-6.55	1.16	1.23
1	BN	51	ARG	C-O	-6.55	1.16	1.23
1	KW	19	PRO	C-O	-6.55	1.15	1.24
1	KS	19	PRO	C-O	-6.55	1.15	1.24
1	Kd	19	PRO	C-O	-6.55	1.15	1.24
1	Kw	9	LEU	C-O	-6.55	1.15	1.24
1	GC	53	GLU	C-O	-6.55	1.15	1.24
1	A6	77	ALA	C-O	-6.55	1.16	1.23
1	AL	77	ALA	C-O	-6.55	1.16	1.23
1	Gg	53	GLU	C-O	-6.55	1.15	1.24
1	A2	77	ALA	C-O	-6.54	1.16	1.23
1	Au	77	ALA	C-O	-6.54	1.16	1.23
1	Gw	77	ALA	C-O	-6.54	1.15	1.23
1	Ot	12	ILE	C-O	-6.54	1.17	1.24
1	AE	12	ILE	C-O	-6.54	1.16	1.24
1	BC	52	GLY	C-O	-6.54	1.16	1.24
1	Gx	77	ALA	C-O	-6.54	1.15	1.23
1	Ar	77	ALA	C-O	-6.54	1.16	1.23
1	A5	12	ILE	C-O	-6.54	1.16	1.24
1	A0	12	ILE	C-O	-6.54	1.16	1.24
1	B0	51	ARG	C-O	-6.54	1.16	1.23
1	B8	50	VAL	C-O	-6.54	1.17	1.24
1	BN	50	VAL	C-O	-6.54	1.17	1.24
1	Ai	12	ILE	C-O	-6.54	1.16	1.24
1	Gh	77	ALA	C-O	-6.54	1.15	1.23
1	BU	51	ARG	C-O	-6.54	1.16	1.23
1	Ax	12	ILE	C-O	-6.54	1.16	1.24
1	Fn	48	VAL	C-O	-6.54	1.17	1.24
1	Bj	51	ARG	C-O	-6.54	1.16	1.23
1	FY	48	VAL	C-O	-6.54	1.17	1.24
1	A8	12	ILE	C-O	-6.54	1.16	1.24
1	AN	12	ILE	C-O	-6.54	1.16	1.24
1	BU	50	VAL	C-O	-6.54	1.17	1.24
1	Av	12	ILE	C-O	-6.54	1.16	1.24
1	B7	50	VAL	C-O	-6.54	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Pg	28	TRP	C-O	-6.54	1.16	1.23
1	Bb	50	VAL	C-O	-6.54	1.17	1.24
1	D9	50	VAL	C-O	-6.53	1.17	1.24
2	PH	28	TRP	C-O	-6.53	1.16	1.23
1	BO	50	VAL	C-O	-6.53	1.17	1.24
1	Dd	50	VAL	C-O	-6.53	1.17	1.24
1	Ds	50	VAL	C-O	-6.53	1.17	1.24
1	Ks	19	PRO	C-O	-6.53	1.15	1.24
2	P3	28	TRP	C-O	-6.53	1.16	1.23
2	PI	28	TRP	C-O	-6.53	1.16	1.23
2	PX	28	TRP	C-O	-6.53	1.16	1.23
1	Ob	12	ILE	C-O	-6.53	1.17	1.24
1	A3	77	ALA	C-O	-6.53	1.16	1.23
1	A4	77	ALA	C-O	-6.53	1.16	1.23
1	AI	77	ALA	C-O	-6.53	1.16	1.23
1	Ag	77	ALA	C-O	-6.53	1.16	1.23
1	Bi	50	VAL	C-O	-6.53	1.17	1.24
1	Ab	77	ALA	C-O	-6.53	1.16	1.23
1	Aq	77	ALA	C-O	-6.53	1.16	1.23
1	B5	50	VAL	C-O	-6.53	1.17	1.24
1	BK	50	VAL	C-O	-6.53	1.17	1.24
2	Pe	28	TRP	C-O	-6.53	1.16	1.23
1	BZ	50	VAL	C-O	-6.53	1.17	1.24
1	Bo	50	VAL	C-O	-6.53	1.17	1.24
1	AA	77	ALA	C-O	-6.53	1.16	1.23
1	AP	77	ALA	C-O	-6.53	1.16	1.23
1	GE	77	ALA	C-O	-6.53	1.15	1.23
1	GT	77	ALA	C-O	-6.53	1.15	1.23
1	Gi	77	ALA	C-O	-6.53	1.15	1.23
1	GZ	53	GLU	C-O	-6.53	1.15	1.24
1	K6	19	PRO	C-O	-6.52	1.15	1.24
1	KL	19	PRO	C-O	-6.52	1.15	1.24
1	Kp	19	PRO	C-O	-6.52	1.15	1.24
1	Kb	19	PRO	C-O	-6.52	1.15	1.24
1	Bq	50	VAL	C-O	-6.52	1.17	1.24
1	Ks	9	LEU	C-O	-6.52	1.15	1.24
1	Kt	19	PRO	C-O	-6.52	1.15	1.24
2	PA	28	TRP	C-O	-6.52	1.16	1.23
1	BT	50	VAL	C-O	-6.52	1.17	1.24
2	PP	28	TRP	C-O	-6.52	1.16	1.23
1	Fx	48	VAL	C-O	-6.52	1.17	1.24
1	Bl	50	VAL	C-O	-6.52	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K7	19	PRO	C-O	-6.52	1.15	1.24
1	BK	51	ARG	C-O	-6.52	1.16	1.23
1	KM	19	PRO	C-O	-6.52	1.15	1.24
1	Bc	50	VAL	C-O	-6.52	1.17	1.24
1	Md	23	ALA	C-O	-6.52	1.16	1.24
1	Br	50	VAL	C-O	-6.52	1.17	1.24
1	Ms	23	ALA	C-O	-6.52	1.16	1.24
1	B6	51	ARG	C-O	-6.52	1.16	1.23
1	Bs	51	ARG	C-O	-6.52	1.16	1.23
1	B1	51	ARG	C-O	-6.51	1.16	1.23
1	Bc	51	ARG	C-O	-6.51	1.16	1.23
1	Br	51	ARG	C-O	-6.51	1.16	1.23
1	BM	50	VAL	C-O	-6.51	1.17	1.24
1	BV	51	ARG	C-O	-6.51	1.16	1.23
1	Bk	51	ARG	C-O	-6.51	1.16	1.23
1	GD	77	ALA	C-O	-6.51	1.16	1.23
1	GS	77	ALA	C-O	-6.51	1.16	1.23
1	Ae	77	ALA	C-O	-6.51	1.16	1.23
1	BV	50	VAL	C-O	-6.51	1.17	1.24
1	Bk	50	VAL	C-O	-6.51	1.17	1.24
1	Fj	48	VAL	C-O	-6.51	1.17	1.24
1	AB	77	ALA	C-O	-6.51	1.16	1.23
1	AC	77	ALA	C-O	-6.51	1.16	1.23
1	AR	77	ALA	C-O	-6.51	1.16	1.23
1	Aa	77	ALA	C-O	-6.51	1.16	1.23
1	Ap	77	ALA	C-O	-6.51	1.16	1.23
1	Hr	79	HIS	C-O	-6.51	1.16	1.23
1	GE	53	GLU	C-O	-6.51	1.15	1.24
1	KA	19	PRO	C-O	-6.51	1.15	1.24
1	K9	19	PRO	C-O	-6.51	1.15	1.24
1	KP	19	PRO	C-O	-6.51	1.15	1.24
1	KO	19	PRO	C-O	-6.51	1.15	1.24
1	Ke	19	PRO	C-O	-6.51	1.15	1.24
1	A3	12	ILE	C-O	-6.51	1.16	1.24
1	F0	48	VAL	C-O	-6.51	1.17	1.24
1	AL	12	ILE	C-O	-6.51	1.16	1.24
1	BX	51	ARG	C-O	-6.51	1.16	1.23
1	FU	48	VAL	C-O	-6.51	1.17	1.24
1	Du	50	VAL	C-O	-6.51	1.17	1.24
1	Go	77	ALA	C-O	-6.51	1.16	1.23
1	Df	50	VAL	C-O	-6.51	1.17	1.24
1	FF	48	VAL	C-O	-6.51	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M6	23	ALA	C-O	-6.50	1.16	1.24
1	MP	23	ALA	C-O	-6.50	1.16	1.24
1	ML	23	ALA	C-O	-6.50	1.16	1.24
1	Ma	23	ALA	C-O	-6.50	1.16	1.24
1	Mt	23	ALA	C-O	-6.50	1.16	1.24
1	Mp	23	ALA	C-O	-6.50	1.16	1.24
1	MB	23	ALA	C-O	-6.50	1.16	1.24
1	B2	51	ARG	C-O	-6.50	1.16	1.23
1	MQ	23	ALA	C-O	-6.50	1.16	1.24
1	BH	51	ARG	C-O	-6.50	1.16	1.23
1	KF	19	PRO	C-O	-6.50	1.15	1.24
1	Mh	23	ALA	C-O	-6.50	1.16	1.24
1	AX	12	ILE	C-O	-6.50	1.16	1.24
1	BW	51	ARG	C-O	-6.50	1.16	1.23
1	Mw	23	ALA	C-O	-6.50	1.16	1.24
2	PZ	28	TRP	C-O	-6.50	1.16	1.23
1	Kl	9	LEU	C-O	-6.50	1.15	1.24
2	Po	28	TRP	C-O	-6.50	1.16	1.23
1	Fl	48	VAL	C-O	-6.50	1.17	1.24
1	KC	19	PRO	C-O	-6.50	1.15	1.24
1	KR	19	PRO	C-O	-6.50	1.15	1.24
1	OQ	12	ILE	C-O	-6.50	1.17	1.24
1	Bn	51	ARG	C-O	-6.50	1.16	1.23
1	OD	12	ILE	C-O	-6.50	1.17	1.24
1	K2	19	PRO	C-O	-6.50	1.15	1.24
1	OS	12	ILE	C-O	-6.50	1.17	1.24
1	KH	19	PRO	C-O	-6.50	1.15	1.24
1	Oh	12	ILE	C-O	-6.50	1.17	1.24
1	Ow	12	ILE	C-O	-6.50	1.17	1.24
1	A7	77	ALA	C-O	-6.50	1.16	1.23
1	AM	77	ALA	C-O	-6.50	1.16	1.23
1	Kf	9	LEU	C-O	-6.50	1.15	1.24
1	AV	77	ALA	C-O	-6.50	1.16	1.23
1	AY	77	ALA	C-O	-6.50	1.16	1.23
1	FW	48	VAL	C-O	-6.50	1.17	1.24
1	Ab	12	ILE	C-O	-6.50	1.16	1.24
1	Ku	9	LEU	C-O	-6.50	1.15	1.24
2	Px	28	TRP	C-O	-6.50	1.16	1.23
1	An	77	ALA	C-O	-6.50	1.16	1.23
1	Aq	12	ILE	C-O	-6.50	1.16	1.24
1	KB	9	LEU	C-O	-6.50	1.15	1.24
1	Kg	9	LEU	C-O	-6.50	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Kv	9	LEU	C-O	-6.50	1.15	1.24
1	B6	50	VAL	C-O	-6.49	1.17	1.24
1	K8	19	PRO	C-O	-6.49	1.15	1.24
1	AT	12	ILE	C-O	-6.49	1.16	1.24
1	KG	19	PRO	C-O	-6.49	1.15	1.24
1	BL	50	VAL	C-O	-6.49	1.17	1.24
1	KN	19	PRO	C-O	-6.49	1.15	1.24
1	Ba	50	VAL	C-O	-6.49	1.17	1.24
1	Kc	19	PRO	C-O	-6.49	1.15	1.24
1	Av	77	ALA	C-O	-6.49	1.16	1.23
1	Aj	83	ARG	C-O	-6.49	1.16	1.24
1	Bp	50	VAL	C-O	-6.49	1.17	1.24
1	MD	23	ALA	C-O	-6.49	1.16	1.24
1	MS	23	ALA	C-O	-6.49	1.16	1.24
1	AK	12	ILE	C-O	-6.49	1.16	1.24
1	Kb	9	LEU	C-O	-6.49	1.15	1.24
1	Mu	23	ALA	C-O	-6.49	1.16	1.24
1	AQ	12	ILE	C-O	-6.49	1.16	1.24
1	GK	77	ALA	C-O	-6.49	1.16	1.23
1	Ka	19	PRO	C-O	-6.49	1.15	1.24
1	KP	9	LEU	C-O	-6.49	1.15	1.24
1	AF	12	ILE	C-O	-6.49	1.16	1.24
1	Ac	12	ILE	C-O	-6.49	1.16	1.24
1	Ad	83	ARG	C-O	-6.49	1.16	1.24
1	Kt	9	LEU	C-O	-6.49	1.15	1.24
2	Pp	28	TRP	C-O	-6.49	1.16	1.23
1	Ao	83	ARG	C-O	-6.49	1.16	1.24
1	BB	51	ARG	C-O	-6.49	1.16	1.23
2	P8	28	TRP	C-O	-6.49	1.16	1.23
1	AJ	77	ALA	C-O	-6.49	1.16	1.23
2	PN	28	TRP	C-O	-6.49	1.16	1.23
1	Bf	51	ARG	C-O	-6.49	1.16	1.23
1	Ke	9	LEU	C-O	-6.49	1.15	1.24
1	Aa	83	ARG	C-O	-6.49	1.16	1.24
1	Bu	51	ARG	C-O	-6.49	1.16	1.23
1	Bl	51	ARG	C-O	-6.49	1.16	1.23
1	Ap	83	ARG	C-O	-6.49	1.16	1.24
1	Af	77	ALA	C-O	-6.48	1.16	1.23
1	Kr	19	PRO	C-O	-6.48	1.15	1.24
2	PT	28	TRP	C-O	-6.48	1.16	1.23
2	PB	28	TRP	C-O	-6.48	1.16	1.23
1	K1	19	PRO	C-O	-6.48	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K5	19	PRO	C-O	-6.48	1.15	1.24
2	P1	28	TRP	C-O	-6.48	1.16	1.23
2	P2	28	TRP	C-O	-6.48	1.16	1.23
1	K9	9	LEU	C-O	-6.48	1.15	1.24
2	PQ	28	TRP	C-O	-6.48	1.16	1.23
1	KJ	9	LEU	C-O	-6.48	1.15	1.24
1	KK	19	PRO	C-O	-6.48	1.15	1.24
1	MH	23	ALA	C-O	-6.48	1.16	1.24
2	PG	28	TRP	C-O	-6.48	1.16	1.23
1	KO	9	LEU	C-O	-6.48	1.15	1.24
1	Kh	9	LEU	C-O	-6.48	1.15	1.24
2	Pf	28	TRP	C-O	-6.48	1.16	1.23
1	KV	19	PRO	C-O	-6.48	1.15	1.24
1	KY	9	LEU	C-O	-6.48	1.15	1.24
1	MW	23	ALA	C-O	-6.48	1.16	1.24
2	PV	28	TRP	C-O	-6.48	1.16	1.23
1	Kd	9	LEU	C-O	-6.48	1.15	1.24
2	Pd	28	TRP	C-O	-6.48	1.16	1.23
2	Pu	28	TRP	C-O	-6.48	1.16	1.23
1	Dm	50	VAL	C-O	-6.48	1.17	1.24
1	Kk	19	PRO	C-O	-6.48	1.15	1.24
1	Kn	9	LEU	C-O	-6.48	1.15	1.24
1	Kh	19	PRO	C-O	-6.48	1.15	1.24
1	Kw	19	PRO	C-O	-6.48	1.15	1.24
1	Kq	19	PRO	C-O	-6.48	1.15	1.24
1	KD	9	LEU	C-O	-6.48	1.15	1.24
1	K4	9	LEU	C-O	-6.48	1.15	1.24
1	KS	9	LEU	C-O	-6.48	1.15	1.24
1	BJ	51	ARG	C-O	-6.48	1.16	1.23
1	Bh	51	ARG	C-O	-6.48	1.16	1.23
1	Bw	51	ARG	C-O	-6.48	1.16	1.23
1	Oq	12	ILE	C-O	-6.48	1.17	1.24
1	KD	19	PRO	C-O	-6.48	1.15	1.24
1	K4	19	PRO	C-O	-6.48	1.15	1.24
1	AI	83	ARG	C-O	-6.48	1.16	1.24
1	AJ	83	ARG	C-O	-6.48	1.16	1.24
1	KJ	19	PRO	C-O	-6.48	1.15	1.24
1	KY	19	PRO	C-O	-6.48	1.15	1.24
1	Kn	19	PRO	C-O	-6.48	1.15	1.24
1	AI	12	ILE	C-O	-6.47	1.16	1.24
1	AQ	77	ALA	C-O	-6.47	1.16	1.23
2	PE	28	TRP	C-O	-6.47	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Pi	28	TRP	C-O	-6.47	1.16	1.23
1	Am	12	ILE	C-O	-6.47	1.16	1.24
1	Kj	9	LEU	C-O	-6.47	1.15	1.24
1	A4	12	ILE	C-O	-6.47	1.16	1.24
1	M2	23	ALA	C-O	-6.47	1.16	1.24
1	M4	23	ALA	C-O	-6.47	1.16	1.24
1	D8	19	PRO	C-O	-6.47	1.15	1.24
1	AJ	12	ILE	C-O	-6.47	1.16	1.24
1	MJ	23	ALA	C-O	-6.47	1.16	1.24
1	AM	12	ILE	C-O	-6.47	1.16	1.24
1	AY	12	ILE	C-O	-6.47	1.16	1.24
1	Od	12	ILE	C-O	-6.47	1.17	1.24
1	An	12	ILE	C-O	-6.47	1.16	1.24
1	Ko	19	PRO	C-O	-6.47	1.15	1.24
1	Ml	23	ALA	C-O	-6.47	1.16	1.24
2	Pk	28	TRP	C-O	-6.47	1.16	1.23
1	Os	12	ILE	C-O	-6.47	1.17	1.24
2	Ps	28	TRP	C-O	-6.47	1.16	1.23
1	A9	12	ILE	C-O	-6.47	1.16	1.24
1	AO	12	ILE	C-O	-6.47	1.16	1.24
1	Ad	12	ILE	C-O	-6.47	1.16	1.24
1	As	12	ILE	C-O	-6.47	1.16	1.24
1	D2	50	VAL	C-O	-6.47	1.17	1.24
1	D5	50	VAL	C-O	-6.47	1.17	1.24
1	D0	19	PRO	C-O	-6.47	1.15	1.24
1	BQ	51	ARG	C-O	-6.47	1.16	1.23
1	DK	50	VAL	C-O	-6.47	1.17	1.24
1	DW	50	VAL	C-O	-6.47	1.17	1.24
1	Bx	50	VAL	C-O	-6.47	1.17	1.24
1	Do	50	VAL	C-O	-6.47	1.17	1.24
1	K2	9	LEU	C-O	-6.46	1.15	1.24
1	OP	12	ILE	C-O	-6.46	1.17	1.24
1	Fh	48	VAL	C-O	-6.46	1.17	1.24
2	P4	28	TRP	C-O	-6.46	1.16	1.23
1	M9	23	ALA	C-O	-6.46	1.16	1.24
2	PJ	28	TRP	C-O	-6.46	1.16	1.23
1	MO	23	ALA	C-O	-6.46	1.16	1.24
2	PY	28	TRP	C-O	-6.46	1.16	1.23
2	Pn	28	TRP	C-O	-6.46	1.16	1.23
2	Pq	28	TRP	C-O	-6.46	1.16	1.23
1	M1	23	ALA	C-O	-6.46	1.16	1.24
1	BG	51	ARG	C-O	-6.46	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	KH	9	LEU	C-O	-6.46	1.15	1.24
1	MG	23	ALA	C-O	-6.46	1.16	1.24
1	AV	83	ARG	C-O	-6.46	1.16	1.24
1	Bt	52	GLY	C-O	-6.46	1.16	1.24
1	Ak	83	ARG	C-O	-6.46	1.16	1.24
1	Mk	23	ALA	C-O	-6.46	1.16	1.24
1	DE	50	VAL	C-O	-6.46	1.17	1.24
1	O4	12	ILE	C-O	-6.46	1.17	1.24
2	P5	28	TRP	C-O	-6.46	1.16	1.23
1	O7	12	ILE	C-O	-6.46	1.17	1.24
1	DT	50	VAL	C-O	-6.46	1.17	1.24
1	MR	23	ALA	C-O	-6.46	1.16	1.24
1	OJ	12	ILE	C-O	-6.46	1.17	1.24
2	PK	28	TRP	C-O	-6.46	1.16	1.23
1	OM	12	ILE	C-O	-6.46	1.17	1.24
1	DZ	50	VAL	C-O	-6.46	1.17	1.24
1	MY	23	ALA	C-O	-6.46	1.16	1.24
1	OW	12	ILE	C-O	-6.46	1.17	1.24
1	OY	12	ILE	C-O	-6.46	1.17	1.24
1	Mv	23	ALA	C-O	-6.46	1.16	1.24
2	Pv	28	TRP	C-O	-6.46	1.16	1.23
1	Mn	23	ALA	C-O	-6.46	1.16	1.24
1	Ol	12	ILE	C-O	-6.46	1.17	1.24
1	On	12	ILE	C-O	-6.46	1.17	1.24
1	B4	51	ARG	C-O	-6.46	1.16	1.23
1	DN	19	PRO	C-O	-6.46	1.15	1.24
1	DV	19	PRO	C-O	-6.46	1.15	1.24
1	Bm	52	GLY	C-O	-6.46	1.16	1.24
1	Kj	19	PRO	C-O	-6.46	1.16	1.24
1	AC	12	ILE	C-O	-6.46	1.16	1.24
1	K3	19	PRO	C-O	-6.46	1.16	1.24
2	P6	28	TRP	C-O	-6.46	1.16	1.23
1	AR	12	ILE	C-O	-6.46	1.16	1.24
2	PL	28	TRP	C-O	-6.46	1.16	1.23
1	Ag	12	ILE	C-O	-6.46	1.16	1.24
2	Pa	28	TRP	C-O	-6.46	1.16	1.23
1	Hu	48	VAL	C-O	-6.46	1.17	1.24
2	Pm	28	TRP	C-O	-6.46	1.16	1.23
1	KI	19	PRO	C-O	-6.46	1.16	1.24
2	P7	28	TRP	C-O	-6.45	1.16	1.23
1	AG	12	ILE	C-O	-6.45	1.16	1.24
2	PI	23	PRO	C-O	-6.45	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	PM	28	TRP	C-O	-6.45	1.16	1.23
1	AV	12	ILE	C-O	-6.45	1.16	1.24
1	Ak	12	ILE	C-O	-6.45	1.16	1.24
1	K0	19	PRO	C-O	-6.45	1.16	1.24
1	KU	19	PRO	C-O	-6.45	1.16	1.24
1	MA	23	ALA	C-O	-6.45	1.16	1.24
1	A6	83	ARG	C-O	-6.45	1.16	1.24
1	K7	9	LEU	C-O	-6.45	1.15	1.24
1	KR	9	LEU	C-O	-6.45	1.15	1.24
1	KM	9	LEU	C-O	-6.45	1.15	1.24
1	Di	50	VAL	C-O	-6.45	1.17	1.24
1	Me	23	ALA	C-O	-6.45	1.16	1.24
1	Ah	83	ARG	C-O	-6.45	1.16	1.24
1	K1	9	LEU	C-O	-6.44	1.15	1.24
1	KG	9	LEU	C-O	-6.44	1.15	1.24
1	KX	19	PRO	C-O	-6.44	1.16	1.24
1	AD	12	ILE	C-O	-6.44	1.16	1.24
1	DC	19	PRO	C-O	-6.44	1.15	1.24
1	KE	19	PRO	C-O	-6.44	1.16	1.24
1	A7	12	ILE	C-O	-6.44	1.16	1.24
1	AS	12	ILE	C-O	-6.44	1.16	1.24
1	KT	19	PRO	C-O	-6.44	1.16	1.24
1	Bd	51	ARG	C-O	-6.44	1.16	1.23
1	Aw	12	ILE	C-O	-6.44	1.16	1.24
1	Dm	19	PRO	C-O	-6.44	1.15	1.24
1	DR	19	PRO	C-O	-6.44	1.15	1.24
1	O9	12	ILE	C-O	-6.44	1.17	1.24
1	AH	12	ILE	C-O	-6.44	1.16	1.24
1	BO	51	ARG	C-O	-6.44	1.16	1.23
1	OO	12	ILE	C-O	-6.44	1.17	1.24
1	Ah	12	ILE	C-O	-6.44	1.16	1.24
1	A9	83	ARG	C-O	-6.44	1.16	1.24
1	DV	50	VAL	C-O	-6.44	1.17	1.24
1	KV	9	LEU	C-O	-6.44	1.15	1.24
1	Dk	50	VAL	C-O	-6.44	1.17	1.24
1	Kl	23	ALA	C-O	-6.44	1.16	1.24
1	As	83	ARG	C-O	-6.44	1.16	1.24
1	A2	12	ILE	C-O	-6.44	1.16	1.24
1	A4	83	ARG	C-O	-6.44	1.16	1.24
1	Af	12	ILE	C-O	-6.44	1.16	1.24
1	Au	12	ILE	C-O	-6.44	1.16	1.24
1	BD	51	ARG	C-O	-6.44	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BS	51	ARG	C-O	-6.44	1.16	1.23
1	A3	83	ARG	C-O	-6.43	1.16	1.24
1	K0	9	LEU	C-O	-6.43	1.15	1.24
1	AP	83	ARG	C-O	-6.43	1.16	1.24
1	KF	9	LEU	C-O	-6.43	1.15	1.24
1	MX	23	ALA	C-O	-6.43	1.16	1.24
1	KU	9	LEU	C-O	-6.43	1.15	1.24
1	Ar	12	ILE	C-O	-6.43	1.16	1.24
1	Mm	23	ALA	C-O	-6.43	1.16	1.24
1	AN	83	ARG	C-O	-6.43	1.16	1.24
1	Mf	23	ALA	C-O	-6.43	1.16	1.24
2	PW	28	TRP	C-O	-6.43	1.16	1.23
1	H8	48	VAL	C-O	-6.43	1.17	1.24
1	HN	48	VAL	C-O	-6.43	1.17	1.24
1	Hc	48	VAL	C-O	-6.43	1.17	1.24
1	Ka	9	LEU	C-O	-6.43	1.15	1.24
1	Hr	48	VAL	C-O	-6.43	1.17	1.24
1	K3	9	LEU	C-O	-6.43	1.15	1.24
1	O2	12	ILE	C-O	-6.43	1.17	1.24
1	K6	9	LEU	C-O	-6.43	1.15	1.24
1	AR	83	ARG	C-O	-6.43	1.16	1.24
1	OH	12	ILE	C-O	-6.43	1.17	1.24
1	BM	52	GLY	C-O	-6.43	1.16	1.24
1	KL	9	LEU	C-O	-6.43	1.15	1.24
2	PO	28	TRP	C-O	-6.43	1.16	1.23
1	KX	9	LEU	C-O	-6.43	1.15	1.24
1	Kp	9	LEU	C-O	-6.43	1.15	1.24
1	KI	9	LEU	C-O	-6.43	1.15	1.24
1	M3	23	ALA	C-O	-6.43	1.16	1.24
1	Fw	48	VAL	C-O	-6.43	1.17	1.24
2	Pl	28	TRP	C-O	-6.43	1.16	1.23
1	MI	23	ALA	C-O	-6.43	1.16	1.24
1	D0	50	VAL	C-O	-6.43	1.17	1.24
1	KW	9	LEU	C-O	-6.43	1.15	1.24
1	OV	12	ILE	C-O	-6.43	1.17	1.24
1	Ok	12	ILE	C-O	-6.43	1.17	1.24
1	Ap	12	ILE	C-O	-6.43	1.16	1.24
1	DU	50	VAL	C-O	-6.43	1.17	1.24
1	A6	12	ILE	C-O	-6.42	1.16	1.24
2	P0	28	TRP	C-O	-6.42	1.16	1.23
1	KL	23	ALA	C-O	-6.42	1.16	1.24
2	PF	28	TRP	C-O	-6.42	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Aa	12	ILE	C-O	-6.42	1.16	1.24
2	Pb	28	TRP	C-O	-6.42	1.16	1.23
2	PU	28	TRP	C-O	-6.42	1.16	1.23
2	Pj	28	TRP	C-O	-6.42	1.16	1.23
1	KA	9	LEU	C-O	-6.42	1.15	1.24
1	D3	19	PRO	C-O	-6.42	1.15	1.24
1	Lg	77	ALA	C-O	-6.42	1.16	1.23
1	DI	19	PRO	C-O	-6.42	1.15	1.24
1	MC	23	ALA	C-O	-6.42	1.16	1.24
1	M7	23	ALA	C-O	-6.42	1.16	1.24
1	Mq	23	ALA	C-O	-6.42	1.16	1.24
1	DU	19	PRO	C-O	-6.42	1.15	1.24
1	A1	12	ILE	C-O	-6.42	1.16	1.24
1	Ae	12	ILE	C-O	-6.42	1.16	1.24
1	AW	83	ARG	C-O	-6.42	1.16	1.24
1	At	12	ILE	C-O	-6.42	1.16	1.24
1	AA	12	ILE	C-O	-6.42	1.16	1.24
1	K6	23	ALA	C-O	-6.42	1.16	1.24
1	K9	23	ALA	C-O	-6.42	1.16	1.24
1	AP	12	ILE	C-O	-6.42	1.16	1.24
1	BP	52	GLY	C-O	-6.42	1.16	1.24
1	LP	77	ALA	C-O	-6.42	1.16	1.23
1	KH	23	ALA	C-O	-6.42	1.16	1.24
1	KZ	19	PRO	C-O	-6.42	1.16	1.24
1	Ka	23	ALA	C-O	-6.42	1.16	1.24
1	Kd	23	ALA	C-O	-6.42	1.16	1.24
1	Aq	23	ALA	C-O	-6.42	1.16	1.24
1	Kp	23	ALA	C-O	-6.42	1.16	1.24
1	Dl	50	VAL	C-O	-6.42	1.17	1.24
1	AB	83	ARG	C-O	-6.42	1.16	1.24
1	OB	12	ILE	C-O	-6.42	1.17	1.24
1	K2	23	ALA	C-O	-6.42	1.16	1.24
1	AQ	83	ARG	C-O	-6.42	1.16	1.24
1	LR	77	ALA	C-O	-6.42	1.16	1.23
1	KG	23	ALA	C-O	-6.42	1.16	1.24
1	Af	83	ARG	C-O	-6.42	1.16	1.24
1	Al	83	ARG	C-O	-6.42	1.16	1.24
2	Pc	28	TRP	C-O	-6.42	1.16	1.23
1	Au	83	ARG	C-O	-6.42	1.16	1.24
1	A1	83	ARG	C-O	-6.41	1.16	1.24
1	M5	23	ALA	C-O	-6.41	1.16	1.24
1	AG	83	ARG	C-O	-6.41	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	MZ	23	ALA	C-O	-6.41	1.16	1.24
1	Lc	77	ALA	C-O	-6.41	1.16	1.23
1	Mo	23	ALA	C-O	-6.41	1.16	1.24
1	MK	23	ALA	C-O	-6.41	1.16	1.24
1	LC	77	ALA	C-O	-6.41	1.16	1.23
1	D1	50	VAL	C-O	-6.41	1.17	1.24
1	DG	50	VAL	C-O	-6.41	1.17	1.24
1	MM	23	ALA	C-O	-6.41	1.16	1.24
1	AZ	83	ARG	C-O	-6.41	1.16	1.24
1	Dc	19	PRO	C-O	-6.41	1.15	1.24
1	Dr	19	PRO	C-O	-6.41	1.15	1.24
1	AC	83	ARG	C-O	-6.41	1.16	1.24
1	M8	23	ALA	C-O	-6.41	1.16	1.24
1	DQ	50	VAL	C-O	-6.41	1.17	1.24
1	JR	12	ILE	C-O	-6.41	1.17	1.24
1	MN	23	ALA	C-O	-6.41	1.16	1.24
1	Mc	23	ALA	C-O	-6.41	1.16	1.24
1	Av	83	ARG	C-O	-6.41	1.16	1.24
1	Ko	23	ALA	C-O	-6.41	1.16	1.24
1	AU	83	ARG	C-O	-6.41	1.16	1.24
1	Oc	12	ILE	C-O	-6.41	1.17	1.24
1	Or	12	ILE	C-O	-6.41	1.17	1.24
1	KC	23	ALA	C-O	-6.41	1.16	1.24
1	H0	48	VAL	C-O	-6.41	1.17	1.24
1	KR	23	ALA	C-O	-6.41	1.16	1.24
1	Hj	48	VAL	C-O	-6.41	1.17	1.24
1	A2	83	ARG	C-O	-6.40	1.16	1.24
1	AH	83	ARG	C-O	-6.40	1.16	1.24
1	Dk	19	PRO	C-O	-6.40	1.15	1.24
1	D9	19	PRO	C-O	-6.40	1.15	1.24
1	AO	83	ARG	C-O	-6.40	1.16	1.24
1	DX	19	PRO	C-O	-6.40	1.15	1.24
1	Dd	19	PRO	C-O	-6.40	1.15	1.24
1	Kb	23	ALA	C-O	-6.40	1.16	1.24
1	HF	48	VAL	C-O	-6.40	1.17	1.24
1	HU	48	VAL	C-O	-6.40	1.17	1.24
1	Dj	19	PRO	C-O	-6.40	1.15	1.24
1	AA	83	ARG	C-O	-6.40	1.16	1.24
1	AD	83	ARG	C-O	-6.40	1.16	1.24
1	DC	50	VAL	C-O	-6.40	1.17	1.24
1	M0	23	ALA	C-O	-6.40	1.16	1.24
1	AS	83	ARG	C-O	-6.40	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ae	83	ARG	C-O	-6.40	1.16	1.24
1	MU	23	ALA	C-O	-6.40	1.16	1.24
1	At	83	ARG	C-O	-6.40	1.16	1.24
1	Dv	19	PRO	C-O	-6.40	1.15	1.24
1	Dv	50	VAL	C-O	-6.40	1.17	1.24
1	DR	50	VAL	C-O	-6.40	1.17	1.24
1	D5	19	PRO	C-O	-6.40	1.15	1.24
1	DK	19	PRO	C-O	-6.40	1.15	1.24
1	K3	23	ALA	C-O	-6.40	1.16	1.24
1	KX	23	ALA	C-O	-6.40	1.16	1.24
1	LX	77	ALA	C-O	-6.40	1.16	1.23
1	MV	23	ALA	C-O	-6.40	1.16	1.24
1	Kr	9	LEU	C-O	-6.40	1.15	1.24
1	KI	23	ALA	C-O	-6.40	1.16	1.24
1	A0	83	ARG	C-O	-6.39	1.16	1.24
1	A7	23	ALA	C-O	-6.39	1.16	1.24
1	A8	83	ARG	C-O	-6.39	1.16	1.24
1	Ag	83	ARG	C-O	-6.39	1.16	1.24
1	HX	48	VAL	C-O	-6.39	1.17	1.24
1	Dx	50	VAL	C-O	-6.39	1.17	1.24
1	Am	83	ARG	C-O	-6.39	1.16	1.24
1	K8	9	LEU	C-O	-6.39	1.15	1.24
1	L8	77	ALA	C-O	-6.39	1.16	1.23
1	KN	9	LEU	C-O	-6.39	1.15	1.24
1	Kc	9	LEU	C-O	-6.39	1.15	1.24
1	Ks	23	ALA	C-O	-6.39	1.16	1.24
1	DA	50	VAL	C-O	-6.39	1.17	1.24
1	O1	12	ILE	C-O	-6.39	1.17	1.24
1	B9	51	ARG	C-O	-6.39	1.16	1.23
1	OG	12	ILE	C-O	-6.39	1.17	1.24
1	Kg	23	ALA	C-O	-6.39	1.16	1.24
1	Mi	23	ALA	C-O	-6.39	1.16	1.24
1	Kv	23	ALA	C-O	-6.39	1.16	1.24
1	Lv	77	ALA	C-O	-6.39	1.16	1.23
1	L3	77	ALA	C-O	-6.39	1.16	1.23
1	Km	23	ALA	C-O	-6.39	1.16	1.24
1	Mj	23	ALA	C-O	-6.39	1.16	1.24
1	KC	9	LEU	C-O	-6.39	1.15	1.24
1	K5	9	LEU	C-O	-6.39	1.15	1.24
1	KK	9	LEU	C-O	-6.39	1.15	1.24
1	Km	9	LEU	C-O	-6.39	1.15	1.24
1	AB	12	ILE	C-O	-6.38	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DE	19	PRO	C-O	-6.38	1.15	1.24
1	ME	23	ALA	C-O	-6.38	1.16	1.24
1	OA	12	ILE	C-O	-6.38	1.17	1.24
1	MT	23	ALA	C-O	-6.38	1.16	1.24
1	Mg	23	ALA	C-O	-6.38	1.16	1.24
1	AW	12	ILE	C-O	-6.38	1.17	1.24
1	Mb	23	ALA	C-O	-6.38	1.16	1.24
1	Al	12	ILE	C-O	-6.38	1.17	1.24
1	Dp	19	PRO	C-O	-6.38	1.15	1.24
1	A8	23	ALA	C-O	-6.38	1.16	1.24
1	AN	23	ALA	C-O	-6.38	1.16	1.24
1	KW	23	ALA	C-O	-6.38	1.16	1.24
1	Ao	23	ALA	C-O	-6.38	1.16	1.24
2	PE	23	PRO	C-O	-6.38	1.16	1.23
2	P9	28	TRP	C-O	-6.38	1.16	1.23
2	PT	23	PRO	C-O	-6.38	1.16	1.23
1	AF	83	ARG	C-O	-6.38	1.16	1.24
1	Ki	19	PRO	C-O	-6.38	1.16	1.24
1	KZ	9	LEU	C-O	-6.38	1.15	1.24
1	Kx	19	PRO	C-O	-6.38	1.16	1.24
1	Lo	77	ALA	C-O	-6.38	1.16	1.23
1	LN	77	ALA	C-O	-6.38	1.16	1.23
1	HB	48	VAL	C-O	-6.38	1.17	1.24
1	H5	48	VAL	C-O	-6.38	1.17	1.24
1	L1	77	ALA	C-O	-6.38	1.16	1.23
1	HQ	48	VAL	C-O	-6.38	1.17	1.24
1	HK	48	VAL	C-O	-6.38	1.17	1.24
1	LG	77	ALA	C-O	-6.38	1.16	1.23
1	Dg	19	PRO	C-O	-6.38	1.15	1.24
1	Hf	48	VAL	C-O	-6.38	1.17	1.24
1	AX	83	ARG	C-O	-6.38	1.16	1.24
1	HZ	48	VAL	C-O	-6.38	1.17	1.24
1	JW	12	ILE	C-O	-6.38	1.17	1.24
1	LV	77	ALA	C-O	-6.38	1.16	1.23
1	Lt	77	ALA	C-O	-6.38	1.16	1.23
1	Ho	48	VAL	C-O	-6.38	1.17	1.24
1	Jl	12	ILE	C-O	-6.38	1.17	1.24
1	Dj	50	VAL	C-O	-6.38	1.17	1.24
1	HE	48	VAL	C-O	-6.38	1.17	1.24
1	HT	48	VAL	C-O	-6.38	1.17	1.24
1	Dg	50	VAL	C-O	-6.38	1.17	1.24
1	Hi	48	VAL	C-O	-6.38	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ab	23	ALA	C-O	-6.38	1.16	1.24
1	Hx	48	VAL	C-O	-6.38	1.17	1.24
1	Mx	23	ALA	C-O	-6.38	1.16	1.24
1	Km	19	PRO	C-O	-6.38	1.16	1.24
1	A5	83	ARG	C-O	-6.37	1.16	1.24
1	D3	50	VAL	C-O	-6.37	1.17	1.24
1	K4	23	ALA	C-O	-6.37	1.16	1.24
1	AK	83	ARG	C-O	-6.37	1.16	1.24
1	DL	50	VAL	C-O	-6.37	1.17	1.24
1	OL	12	ILE	C-O	-6.37	1.17	1.24
1	AY	83	ARG	C-O	-6.37	1.16	1.24
1	DX	50	VAL	C-O	-6.37	1.17	1.24
1	Da	50	VAL	C-O	-6.37	1.17	1.24
1	Kk	9	LEU	C-O	-6.37	1.15	1.24
1	Dp	50	VAL	C-O	-6.37	1.17	1.24
1	D6	50	VAL	C-O	-6.37	1.17	1.24
1	AB	23	ALA	C-O	-6.37	1.16	1.24
1	K7	23	ALA	C-O	-6.37	1.16	1.24
1	Lk	77	ALA	C-O	-6.37	1.16	1.23
1	Mr	23	ALA	C-O	-6.37	1.16	1.24
2	Pr	28	TRP	C-O	-6.37	1.16	1.23
1	AC	23	ALA	C-O	-6.37	1.16	1.24
1	OE	12	ILE	C-O	-6.37	1.17	1.24
1	A3	23	ALA	C-O	-6.37	1.16	1.24
1	O3	12	ILE	C-O	-6.37	1.17	1.24
1	O5	12	ILE	C-O	-6.37	1.17	1.24
1	H7	48	VAL	C-O	-6.37	1.17	1.24
1	O6	12	ILE	C-O	-6.37	1.17	1.24
1	O8	12	ILE	C-O	-6.37	1.17	1.24
1	AR	23	ALA	C-O	-6.37	1.16	1.24
1	DT	19	PRO	C-O	-6.37	1.15	1.24
1	AI	23	ALA	C-O	-6.37	1.16	1.24
1	AJ	23	ALA	C-O	-6.37	1.16	1.24
1	AM	23	ALA	C-O	-6.37	1.16	1.24
1	ON	12	ILE	C-O	-6.37	1.17	1.24
1	Ag	23	ALA	C-O	-6.37	1.16	1.24
1	AX	23	ALA	C-O	-6.37	1.16	1.24
1	DZ	19	PRO	C-O	-6.37	1.15	1.24
1	OX	12	ILE	C-O	-6.37	1.17	1.24
1	Lb	77	ALA	C-O	-6.37	1.16	1.23
1	Oa	12	ILE	C-O	-6.37	1.17	1.24
1	Av	23	ALA	C-O	-6.37	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Am	23	ALA	C-O	-6.37	1.16	1.24
1	Do	19	PRO	C-O	-6.37	1.15	1.24
1	Lq	77	ALA	C-O	-6.37	1.16	1.23
1	Op	12	ILE	C-O	-6.37	1.17	1.24
1	OI	12	ILE	C-O	-6.37	1.17	1.24
1	JC	12	ILE	C-O	-6.37	1.17	1.24
1	Df	19	PRO	C-O	-6.37	1.15	1.24
1	KA	23	ALA	C-O	-6.37	1.16	1.24
1	H4	48	VAL	C-O	-6.37	1.17	1.24
1	KP	23	ALA	C-O	-6.37	1.16	1.24
1	HJ	48	VAL	C-O	-6.37	1.17	1.24
1	Ke	23	ALA	C-O	-6.37	1.16	1.24
1	Kh	23	ALA	C-O	-6.37	1.16	1.24
1	Hb	48	VAL	C-O	-6.37	1.17	1.24
1	Kw	23	ALA	C-O	-6.37	1.16	1.24
1	K1	23	ALA	C-O	-6.36	1.16	1.24
1	Hh	48	VAL	C-O	-6.36	1.17	1.24
1	Kf	23	ALA	C-O	-6.36	1.16	1.24
1	HY	48	VAL	C-O	-6.36	1.17	1.24
1	Hd	48	VAL	C-O	-6.36	1.17	1.24
1	Hn	48	VAL	C-O	-6.36	1.17	1.24
1	Ds	19	PRO	C-O	-6.36	1.15	1.24
1	Hs	48	VAL	C-O	-6.36	1.17	1.24
1	Om	12	ILE	C-O	-6.36	1.17	1.24
1	OC	12	ILE	C-O	-6.36	1.17	1.24
1	DP	50	VAL	C-O	-6.36	1.17	1.24
1	De	50	VAL	C-O	-6.36	1.17	1.24
1	Dt	50	VAL	C-O	-6.36	1.17	1.24
1	K5	23	ALA	C-O	-6.36	1.16	1.24
1	KK	23	ALA	C-O	-6.36	1.16	1.24
1	JL	12	ILE	C-O	-6.36	1.17	1.24
1	Of	12	ILE	C-O	-6.36	1.17	1.24
1	KZ	23	ALA	C-O	-6.36	1.16	1.24
1	Da	19	PRO	C-O	-6.36	1.15	1.24
1	Ou	12	ILE	C-O	-6.36	1.17	1.24
1	KB	23	ALA	C-O	-6.36	1.16	1.24
1	O0	12	ILE	C-O	-6.36	1.17	1.24
1	KQ	23	ALA	C-O	-6.36	1.16	1.24
1	OF	12	ILE	C-O	-6.36	1.17	1.24
1	OU	12	ILE	C-O	-6.36	1.17	1.24
1	Oj	12	ILE	C-O	-6.36	1.17	1.24
1	Ac	83	ARG	C-O	-6.36	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Lx	77	ALA	C-O	-6.36	1.16	1.23
1	Ar	83	ARG	C-O	-6.36	1.16	1.24
2	Pj	23	PRO	C-O	-6.36	1.16	1.23
1	H3	48	VAL	C-O	-6.36	1.17	1.24
1	A0	23	ALA	C-O	-6.36	1.16	1.24
1	OR	12	ILE	C-O	-6.36	1.17	1.24
1	HI	48	VAL	C-O	-6.36	1.17	1.24
1	AF	23	ALA	C-O	-6.36	1.16	1.24
1	AU	23	ALA	C-O	-6.36	1.16	1.24
2	Pt	23	PRO	C-O	-6.36	1.16	1.23
1	Jo	12	ILE	C-O	-6.36	1.17	1.24
1	Aj	23	ALA	C-O	-6.36	1.16	1.24
1	LI	77	ALA	C-O	-6.36	1.16	1.23
2	Pi	23	PRO	C-O	-6.35	1.16	1.23
1	AT	83	ARG	C-O	-6.35	1.16	1.24
1	Ai	83	ARG	C-O	-6.35	1.16	1.24
1	Jg	12	ILE	C-O	-6.35	1.17	1.24
1	Ax	83	ARG	C-O	-6.35	1.16	1.24
1	Kt	23	ALA	C-O	-6.35	1.16	1.24
1	H2	48	VAL	C-O	-6.35	1.17	1.24
1	J7	12	ILE	C-O	-6.35	1.17	1.24
1	KO	23	ALA	C-O	-6.35	1.16	1.24
1	Jb	12	ILE	C-O	-6.35	1.17	1.24
1	Hm	48	VAL	C-O	-6.35	1.17	1.24
1	Jq	12	ILE	C-O	-6.35	1.17	1.24
1	D1	19	PRO	C-O	-6.35	1.15	1.24
1	L6	77	ALA	C-O	-6.35	1.16	1.23
1	DG	19	PRO	C-O	-6.35	1.15	1.24
1	DO	19	PRO	C-O	-6.35	1.15	1.24
1	LL	77	ALA	C-O	-6.35	1.16	1.23
1	Li	77	ALA	C-O	-6.35	1.16	1.23
1	LZ	77	ALA	C-O	-6.35	1.16	1.23
1	Lr	77	ALA	C-O	-6.35	1.16	1.23
2	PZ	23	PRO	C-O	-6.35	1.16	1.23
2	Po	23	PRO	C-O	-6.35	1.16	1.23
1	DI	50	VAL	C-O	-6.35	1.17	1.24
1	LA	77	ALA	C-O	-6.34	1.16	1.23
1	D2	19	PRO	C-O	-6.34	1.15	1.24
1	HH	48	VAL	C-O	-6.34	1.17	1.24
1	Af	23	ALA	C-O	-6.34	1.16	1.24
1	Le	77	ALA	C-O	-6.34	1.16	1.23
1	DW	19	PRO	C-O	-6.34	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Pc	23	PRO	C-O	-6.34	1.16	1.23
1	Du	19	PRO	C-O	-6.34	1.15	1.24
1	Lw	77	ALA	C-O	-6.34	1.16	1.23
2	Pr	23	PRO	C-O	-6.34	1.16	1.23
1	Dl	19	PRO	C-O	-6.34	1.15	1.24
1	KE	9	LEU	C-O	-6.34	1.15	1.24
2	P3	23	PRO	C-O	-6.34	1.16	1.23
1	KT	9	LEU	C-O	-6.34	1.15	1.24
1	JE	12	ILE	C-O	-6.34	1.17	1.24
1	JT	12	ILE	C-O	-6.34	1.17	1.24
1	Kn	23	ALA	C-O	-6.34	1.16	1.24
1	KM	23	ALA	C-O	-6.34	1.16	1.24
1	Ku	23	ALA	C-O	-6.34	1.16	1.24
1	Ko	9	LEU	C-O	-6.34	1.15	1.24
1	A5	23	ALA	C-O	-6.34	1.16	1.24
1	L5	77	ALA	C-O	-6.34	1.16	1.23
1	D8	50	VAL	C-O	-6.34	1.17	1.24
1	H9	48	VAL	C-O	-6.34	1.17	1.24
1	K0	23	ALA	C-O	-6.34	1.16	1.24
1	LT	77	ALA	C-O	-6.34	1.16	1.23
1	DN	50	VAL	C-O	-6.34	1.17	1.24
1	HO	48	VAL	C-O	-6.34	1.17	1.24
1	Dc	50	VAL	C-O	-6.34	1.17	1.24
1	Dr	50	VAL	C-O	-6.34	1.17	1.24
1	AM	83	ARG	C-O	-6.33	1.16	1.24
2	PN	23	PRO	C-O	-6.33	1.16	1.23
1	KD	23	ALA	C-O	-6.33	1.16	1.24
1	KE	23	ALA	C-O	-6.33	1.16	1.24
1	K8	23	ALA	C-O	-6.33	1.16	1.24
1	LJ	77	ALA	C-O	-6.33	1.16	1.23
1	KN	23	ALA	C-O	-6.33	1.16	1.24
1	Di	9	LEU	C-O	-6.33	1.15	1.24
1	Ki	23	ALA	C-O	-6.33	1.16	1.24
1	Kc	23	ALA	C-O	-6.33	1.16	1.24
1	Dx	9	LEU	C-O	-6.33	1.15	1.24
1	Kq	23	ALA	C-O	-6.33	1.16	1.24
1	Kr	23	ALA	C-O	-6.33	1.16	1.24
1	H1	48	VAL	C-O	-6.33	1.17	1.24
1	HG	48	VAL	C-O	-6.33	1.17	1.24
1	HV	48	VAL	C-O	-6.33	1.17	1.24
1	Hk	48	VAL	C-O	-6.33	1.17	1.24
1	A2	23	ALA	C-O	-6.33	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	P5	23	PRO	C-O	-6.33	1.16	1.23
1	AH	23	ALA	C-O	-6.33	1.16	1.24
2	PK	23	PRO	C-O	-6.33	1.16	1.23
1	AW	23	ALA	C-O	-6.33	1.16	1.24
2	PX	23	PRO	C-O	-6.33	1.16	1.23
1	Lu	77	ALA	C-O	-6.33	1.16	1.23
1	An	83	ARG	C-O	-6.33	1.16	1.24
1	A4	23	ALA	C-O	-6.33	1.16	1.24
1	AY	23	ALA	C-O	-6.33	1.16	1.24
1	An	23	ALA	C-O	-6.33	1.16	1.24
1	A1	23	ALA	C-O	-6.33	1.16	1.24
1	A9	23	ALA	C-O	-6.33	1.16	1.24
1	AG	23	ALA	C-O	-6.33	1.16	1.24
1	LK	77	ALA	C-O	-6.33	1.16	1.23
1	AO	23	ALA	C-O	-6.33	1.16	1.24
1	KV	23	ALA	C-O	-6.33	1.16	1.24
1	Ad	23	ALA	C-O	-6.33	1.16	1.24
1	Nc	23	ALA	C-O	-6.33	1.16	1.24
1	Hw	48	VAL	C-O	-6.33	1.17	1.24
1	As	23	ALA	C-O	-6.33	1.16	1.24
1	HC	48	VAL	C-O	-6.32	1.17	1.24
1	HD	48	VAL	C-O	-6.32	1.17	1.24
1	LD	77	ALA	C-O	-6.32	1.16	1.23
1	L4	77	ALA	C-O	-6.32	1.16	1.23
1	L7	77	ALA	C-O	-6.32	1.16	1.23
1	HR	48	VAL	C-O	-6.32	1.17	1.24
1	HS	48	VAL	C-O	-6.32	1.17	1.24
1	LS	77	ALA	C-O	-6.32	1.16	1.23
1	HM	48	VAL	C-O	-6.32	1.17	1.24
1	Lh	77	ALA	C-O	-6.32	1.16	1.23
1	HW	48	VAL	C-O	-6.32	1.17	1.24
2	PV	23	PRO	C-O	-6.32	1.16	1.23
1	Hl	48	VAL	C-O	-6.32	1.17	1.24
2	Pk	23	PRO	C-O	-6.32	1.16	1.23
1	Hq	48	VAL	C-O	-6.32	1.17	1.24
1	LM	77	ALA	C-O	-6.32	1.16	1.23
1	DL	19	PRO	C-O	-6.32	1.15	1.24
1	D6	19	PRO	C-O	-6.32	1.15	1.24
1	L0	77	ALA	C-O	-6.32	1.16	1.23
1	LF	77	ALA	C-O	-6.32	1.16	1.23
1	Di	19	PRO	C-O	-6.32	1.15	1.24
1	Hg	48	VAL	C-O	-6.32	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DZ	9	LEU	C-O	-6.32	1.15	1.24
1	LU	77	ALA	C-O	-6.32	1.16	1.23
1	Dx	19	PRO	C-O	-6.32	1.15	1.24
1	Hv	48	VAL	C-O	-6.32	1.17	1.24
1	Lj	77	ALA	C-O	-6.32	1.16	1.23
1	LH	77	ALA	C-O	-6.32	1.16	1.23
1	LW	77	ALA	C-O	-6.32	1.16	1.23
2	P8	23	PRO	C-O	-6.32	1.16	1.23
2	P0	23	PRO	C-O	-6.32	1.16	1.23
1	JM	12	ILE	C-O	-6.32	1.17	1.24
2	PF	23	PRO	C-O	-6.32	1.16	1.23
2	PU	23	PRO	C-O	-6.32	1.16	1.23
1	DM	19	PRO	C-O	-6.32	1.15	1.24
1	Aw	83	ARG	C-O	-6.32	1.16	1.24
1	Eq	23	ALA	C-O	-6.32	1.16	1.24
1	Dj	9	LEU	C-O	-6.31	1.15	1.24
1	J5	12	ILE	C-O	-6.31	1.17	1.24
1	J8	12	ILE	C-O	-6.31	1.17	1.24
1	L9	77	ALA	C-O	-6.31	1.16	1.23
1	AK	23	ALA	C-O	-6.31	1.16	1.24
1	JN	12	ILE	C-O	-6.31	1.17	1.24
1	LO	77	ALA	C-O	-6.31	1.16	1.23
1	Ji	12	ILE	C-O	-6.31	1.17	1.24
1	AZ	23	ALA	C-O	-6.31	1.16	1.24
1	JZ	12	ILE	C-O	-6.31	1.17	1.24
1	Ac	23	ALA	C-O	-6.31	1.16	1.24
1	Eb	23	ALA	C-O	-6.31	1.16	1.24
1	Jc	12	ILE	C-O	-6.31	1.17	1.24
1	Jx	12	ILE	C-O	-6.31	1.17	1.24
1	Kk	23	ALA	C-O	-6.31	1.16	1.24
1	LY	77	ALA	C-O	-6.31	1.16	1.23
2	Px	23	PRO	C-O	-6.31	1.16	1.23
1	Ln	77	ALA	C-O	-6.31	1.16	1.23
1	JV	12	ILE	C-O	-6.31	1.17	1.24
1	La	77	ALA	C-O	-6.31	1.16	1.23
1	Jk	12	ILE	C-O	-6.31	1.17	1.24
1	J3	12	ILE	C-O	-6.31	1.17	1.24
1	JI	12	ILE	C-O	-6.31	1.17	1.24
1	J2	12	ILE	C-O	-6.31	1.17	1.24
1	JH	12	ILE	C-O	-6.31	1.17	1.24
2	Pm	23	PRO	C-O	-6.31	1.16	1.23
1	JB	12	ILE	C-O	-6.30	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AQ	23	ALA	C-O	-6.30	1.16	1.24
1	JQ	12	ILE	C-O	-6.30	1.17	1.24
1	Jf	12	ILE	C-O	-6.30	1.17	1.24
1	Ju	12	ILE	C-O	-6.30	1.17	1.24
1	Kx	23	ALA	C-O	-6.30	1.16	1.24
1	KJ	23	ALA	C-O	-6.30	1.16	1.24
1	Nr	23	ALA	C-O	-6.30	1.16	1.24
1	DW	9	LEU	C-O	-6.30	1.16	1.24
1	KY	23	ALA	C-O	-6.30	1.16	1.24
1	N3	23	ALA	C-O	-6.30	1.16	1.24
1	KU	23	ALA	C-O	-6.30	1.16	1.24
1	Kj	23	ALA	C-O	-6.30	1.16	1.24
1	NI	23	ALA	C-O	-6.30	1.16	1.24
1	AA	23	ALA	C-O	-6.30	1.16	1.24
1	AE	23	ALA	C-O	-6.30	1.16	1.24
1	J1	12	ILE	C-O	-6.30	1.17	1.24
1	J9	12	ILE	C-O	-6.30	1.17	1.24
1	AP	23	ALA	C-O	-6.30	1.16	1.24
1	AT	23	ALA	C-O	-6.30	1.16	1.24
2	PQ	23	PRO	C-O	-6.30	1.16	1.23
1	JG	12	ILE	C-O	-6.30	1.17	1.24
1	JO	12	ILE	C-O	-6.30	1.17	1.24
1	Ae	23	ALA	C-O	-6.30	1.16	1.24
1	AV	23	ALA	C-O	-6.30	1.16	1.24
1	Jd	12	ILE	C-O	-6.30	1.17	1.24
1	At	23	ALA	C-O	-6.30	1.16	1.24
1	Js	12	ILE	C-O	-6.30	1.17	1.24
1	DQ	19	PRO	C-O	-6.29	1.15	1.24
1	KS	23	ALA	C-O	-6.29	1.16	1.24
2	PA	23	PRO	C-O	-6.29	1.16	1.23
2	P1	23	PRO	C-O	-6.29	1.16	1.23
2	PP	23	PRO	C-O	-6.29	1.16	1.23
1	OK	12	ILE	C-O	-6.29	1.17	1.24
2	PG	23	PRO	C-O	-6.29	1.16	1.23
2	Pe	23	PRO	C-O	-6.29	1.16	1.23
1	OZ	12	ILE	C-O	-6.29	1.17	1.24
1	Oo	12	ILE	C-O	-6.29	1.17	1.24
1	DE	9	LEU	C-O	-6.29	1.16	1.24
1	LE	77	ALA	C-O	-6.29	1.16	1.23
1	DT	9	LEU	C-O	-6.29	1.16	1.24
1	OT	12	ILE	C-O	-6.29	1.17	1.24
2	Pa	23	PRO	C-O	-6.29	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Pp	23	PRO	C-O	-6.29	1.16	1.23
1	NX	23	ALA	C-O	-6.29	1.16	1.24
1	Nm	23	ALA	C-O	-6.29	1.16	1.24
1	DA	19	PRO	C-O	-6.29	1.15	1.24
1	HA	48	VAL	C-O	-6.29	1.17	1.24
1	A7	83	ARG	C-O	-6.29	1.16	1.24
1	DP	19	PRO	C-O	-6.29	1.15	1.24
1	De	19	PRO	C-O	-6.29	1.15	1.24
1	Al	23	ALA	C-O	-6.29	1.16	1.24
1	Ap	23	ALA	C-O	-6.29	1.16	1.24
2	P4	23	PRO	C-O	-6.28	1.16	1.23
1	A6	23	ALA	C-O	-6.28	1.16	1.24
2	PJ	23	PRO	C-O	-6.28	1.16	1.23
1	AL	23	ALA	C-O	-6.28	1.16	1.24
1	DV	9	LEU	C-O	-6.28	1.16	1.24
2	PY	23	PRO	C-O	-6.28	1.16	1.23
1	Aa	23	ALA	C-O	-6.28	1.16	1.24
1	NB	23	ALA	C-O	-6.28	1.16	1.24
1	HP	48	VAL	C-O	-6.28	1.17	1.24
1	NQ	23	ALA	C-O	-6.28	1.16	1.24
1	Nf	23	ALA	C-O	-6.28	1.16	1.24
1	Ja	12	ILE	C-O	-6.28	1.17	1.24
1	Nu	23	ALA	C-O	-6.28	1.16	1.24
2	Pl	23	PRO	C-O	-6.28	1.16	1.23
1	Jp	12	ILE	C-O	-6.28	1.17	1.24
1	J6	12	ILE	C-O	-6.28	1.17	1.24
1	N8	23	ALA	C-O	-6.28	1.16	1.24
2	Pn	23	PRO	C-O	-6.28	1.16	1.23
1	Dp	9	LEU	C-O	-6.28	1.16	1.24
1	JA	12	ILE	C-O	-6.28	1.17	1.24
1	JP	12	ILE	C-O	-6.28	1.17	1.24
1	Ki	9	LEU	C-O	-6.28	1.16	1.24
1	Ld	77	ALA	C-O	-6.28	1.16	1.23
1	Iw	47	THR	C-O	-6.28	1.16	1.24
1	Kx	9	LEU	C-O	-6.28	1.16	1.24
1	AE	83	ARG	C-O	-6.28	1.16	1.24
1	H6	48	VAL	C-O	-6.28	1.17	1.24
1	EP	23	ALA	C-O	-6.28	1.16	1.24
1	HL	48	VAL	C-O	-6.28	1.17	1.24
1	KF	23	ALA	C-O	-6.28	1.16	1.24
1	He	48	VAL	C-O	-6.28	1.17	1.24
1	Au	23	ALA	C-O	-6.28	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ht	48	VAL	C-O	-6.28	1.17	1.24
1	DI	9	LEU	C-O	-6.28	1.16	1.24
1	Ih	47	THR	C-O	-6.27	1.16	1.24
1	Ha	48	VAL	C-O	-6.27	1.17	1.24
1	Aw	23	ALA	C-O	-6.27	1.16	1.24
1	Ak	23	ALA	C-O	-6.27	1.16	1.24
1	Hp	48	VAL	C-O	-6.27	1.17	1.24
1	E5	23	ALA	C-O	-6.27	1.16	1.24
2	P6	23	PRO	C-O	-6.27	1.16	1.23
2	PL	23	PRO	C-O	-6.27	1.16	1.23
2	Pu	23	PRO	C-O	-6.27	1.16	1.23
1	Ar	23	ALA	C-O	-6.27	1.16	1.24
1	D2	9	LEU	C-O	-6.27	1.16	1.24
1	JK	12	ILE	C-O	-6.27	1.17	1.24
1	Og	12	ILE	C-O	-6.27	1.17	1.24
1	Ov	12	ILE	C-O	-6.27	1.17	1.24
1	Jn	12	ILE	C-O	-6.27	1.17	1.24
1	Dl	9	LEU	C-O	-6.27	1.16	1.24
1	J4	12	ILE	C-O	-6.27	1.17	1.24
1	D9	9	LEU	C-O	-6.27	1.16	1.24
1	JJ	12	ILE	C-O	-6.27	1.17	1.24
1	Ai	23	ALA	C-O	-6.27	1.16	1.24
1	EX	23	ALA	C-O	-6.27	1.16	1.24
1	JX	12	ILE	C-O	-6.27	1.17	1.24
1	Dd	9	LEU	C-O	-6.27	1.16	1.24
1	Ax	23	ALA	C-O	-6.27	1.16	1.24
1	JY	12	ILE	C-O	-6.27	1.17	1.24
1	Em	23	ALA	C-O	-6.27	1.16	1.24
1	IE	12	ILE	C-O	-6.27	1.17	1.24
1	LB	77	ALA	C-O	-6.27	1.16	1.23
1	L2	77	ALA	C-O	-6.27	1.16	1.23
1	LQ	77	ALA	C-O	-6.27	1.16	1.23
1	Lf	77	ALA	C-O	-6.27	1.16	1.23
1	Ll	77	ALA	C-O	-6.27	1.16	1.23
1	NC	23	ALA	C-O	-6.26	1.16	1.24
1	NR	23	ALA	C-O	-6.26	1.16	1.24
1	Ng	23	ALA	C-O	-6.26	1.16	1.24
1	Nv	23	ALA	C-O	-6.26	1.16	1.24
1	E6	23	ALA	C-O	-6.26	1.16	1.24
1	Ea	23	ALA	C-O	-6.26	1.16	1.24
1	Ep	23	ALA	C-O	-6.26	1.16	1.24
1	E3	23	ALA	C-O	-6.26	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DL	9	LEU	C-O	-6.26	1.16	1.24
1	D6	9	LEU	C-O	-6.26	1.16	1.24
1	AD	23	ALA	C-O	-6.26	1.16	1.24
1	D1	9	LEU	C-O	-6.26	1.16	1.24
1	F6	9	LEU	C-O	-6.26	1.16	1.24
1	AS	23	ALA	C-O	-6.26	1.16	1.24
1	KT	23	ALA	C-O	-6.26	1.16	1.24
1	Ah	23	ALA	C-O	-6.26	1.16	1.24
1	N6	23	ALA	C-O	-6.25	1.16	1.24
1	Og	60	ALA	C-O	-6.25	1.16	1.24
1	Oi	12	ILE	C-O	-6.25	1.17	1.24
1	Ov	60	ALA	C-O	-6.25	1.16	1.24
1	Ab	83	ARG	C-O	-6.25	1.16	1.24
1	Aq	83	ARG	C-O	-6.25	1.16	1.24
1	Df	56	ALA	N-CA	-6.25	1.39	1.46
1	JU	12	ILE	C-O	-6.25	1.17	1.24
1	Da	9	LEU	C-O	-6.25	1.16	1.24
1	Nb	23	ALA	C-O	-6.25	1.16	1.24
1	Nq	23	ALA	C-O	-6.25	1.16	1.24
1	Is	12	ILE	C-O	-6.25	1.17	1.24
1	DO	9	LEU	C-O	-6.25	1.16	1.24
1	NL	23	ALA	C-O	-6.25	1.16	1.24
1	DA	9	LEU	C-O	-6.25	1.16	1.24
2	P9	23	PRO	C-O	-6.25	1.16	1.23
1	DP	9	LEU	C-O	-6.25	1.16	1.24
1	D0	9	LEU	C-O	-6.24	1.16	1.24
1	Dg	9	LEU	C-O	-6.24	1.16	1.24
1	Dv	9	LEU	C-O	-6.24	1.16	1.24
1	DU	9	LEU	C-O	-6.24	1.16	1.24
1	D5	9	LEU	C-O	-6.24	1.16	1.24
1	DK	9	LEU	C-O	-6.24	1.16	1.24
1	Nt	23	ALA	C-O	-6.24	1.16	1.24
2	P2	23	PRO	C-O	-6.24	1.16	1.23
1	E7	23	ALA	C-O	-6.24	1.17	1.24
1	J0	12	ILE	C-O	-6.24	1.17	1.24
2	PH	23	PRO	C-O	-6.24	1.16	1.23
1	EM	23	ALA	C-O	-6.24	1.17	1.24
1	IZ	47	THR	C-O	-6.24	1.16	1.24
2	PW	23	PRO	C-O	-6.24	1.16	1.23
1	Io	47	THR	C-O	-6.24	1.16	1.24
1	Jj	12	ILE	C-O	-6.24	1.17	1.24
1	JF	12	ILE	C-O	-6.24	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	NA	23	ALA	C-O	-6.24	1.16	1.24
1	N1	23	ALA	C-O	-6.24	1.16	1.24
1	NP	23	ALA	C-O	-6.24	1.16	1.24
1	NG	23	ALA	C-O	-6.24	1.16	1.24
1	E2	23	ALA	C-O	-6.24	1.17	1.24
1	ER	23	ALA	C-O	-6.24	1.17	1.24
1	EH	23	ALA	C-O	-6.24	1.17	1.24
1	Ef	23	ALA	C-O	-6.24	1.17	1.24
1	EW	23	ALA	C-O	-6.24	1.17	1.24
1	EU	23	ALA	C-O	-6.24	1.17	1.24
1	Eu	23	ALA	C-O	-6.24	1.17	1.24
1	Dk	9	LEU	C-O	-6.24	1.16	1.24
1	Lp	77	ALA	C-O	-6.24	1.16	1.23
1	E0	23	ALA	C-O	-6.23	1.17	1.24
1	ND	23	ALA	C-O	-6.23	1.16	1.24
2	PC	23	PRO	C-O	-6.23	1.16	1.23
1	N4	23	ALA	C-O	-6.23	1.16	1.24
1	N7	23	ALA	C-O	-6.23	1.16	1.24
1	NS	23	ALA	C-O	-6.23	1.16	1.24
2	PR	23	PRO	C-O	-6.23	1.16	1.23
1	NM	23	ALA	C-O	-6.23	1.16	1.24
1	Nh	23	ALA	C-O	-6.23	1.16	1.24
1	NV	23	ALA	C-O	-6.23	1.16	1.24
1	Nw	23	ALA	C-O	-6.23	1.16	1.24
1	Nk	23	ALA	C-O	-6.23	1.16	1.24
1	Ds	9	LEU	C-O	-6.23	1.16	1.24
2	PB	23	PRO	C-O	-6.23	1.16	1.23
1	DG	9	LEU	C-O	-6.23	1.16	1.24
2	Pf	23	PRO	C-O	-6.23	1.16	1.23
1	Hc	10	GLY	C-O	-6.23	1.15	1.23
2	Pd	23	PRO	C-O	-6.23	1.16	1.23
2	Ps	23	PRO	C-O	-6.23	1.16	1.23
1	HI	10	GLY	C-O	-6.23	1.15	1.23
1	Na	23	ALA	C-O	-6.23	1.16	1.24
1	Np	23	ALA	C-O	-6.23	1.16	1.24
1	D8	9	LEU	C-O	-6.23	1.16	1.24
1	E8	23	ALA	C-O	-6.23	1.17	1.24
1	IT	12	ILE	C-O	-6.23	1.17	1.24
1	DN	9	LEU	C-O	-6.23	1.16	1.24
1	Ec	23	ALA	C-O	-6.23	1.17	1.24
1	Dm	9	LEU	C-O	-6.23	1.16	1.24
1	Er	23	ALA	C-O	-6.23	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Fl	9	LEU	C-O	-6.22	1.16	1.24
1	IH	12	ILE	C-O	-6.22	1.17	1.24
1	De	9	LEU	C-O	-6.22	1.16	1.24
1	Je	12	ILE	C-O	-6.22	1.17	1.24
2	Pg	23	PRO	C-O	-6.22	1.16	1.23
1	E4	23	ALA	C-O	-6.22	1.17	1.24
1	N2	23	ALA	C-O	-6.22	1.16	1.24
1	EJ	23	ALA	C-O	-6.22	1.17	1.24
1	IK	12	ILE	C-O	-6.22	1.17	1.24
1	NH	23	ALA	C-O	-6.22	1.16	1.24
1	Ii	12	ILE	C-O	-6.22	1.17	1.24
1	EY	23	ALA	C-O	-6.22	1.17	1.24
1	Ix	12	ILE	C-O	-6.22	1.17	1.24
1	JD	12	ILE	C-O	-6.22	1.17	1.24
1	E1	23	ALA	C-O	-6.22	1.17	1.24
1	JS	12	ILE	C-O	-6.22	1.17	1.24
1	NF	23	ALA	C-O	-6.22	1.16	1.24
1	Jh	12	ILE	C-O	-6.22	1.17	1.24
1	Jw	12	ILE	C-O	-6.22	1.17	1.24
1	Nj	23	ALA	C-O	-6.22	1.16	1.24
1	Ox	12	ILE	C-O	-6.21	1.17	1.24
1	Do	9	LEU	C-O	-6.21	1.16	1.24
1	N5	23	ALA	C-O	-6.21	1.16	1.24
1	OQ	60	ALA	C-O	-6.21	1.17	1.24
1	HK	10	GLY	C-O	-6.21	1.15	1.23
1	NZ	23	ALA	C-O	-6.21	1.16	1.24
1	Dc	9	LEU	C-O	-6.21	1.16	1.24
1	Dr	9	LEU	C-O	-6.21	1.16	1.24
1	FE	23	ALA	C-O	-6.21	1.16	1.24
1	FT	23	ALA	C-O	-6.21	1.16	1.24
1	NT	23	ALA	C-O	-6.21	1.16	1.24
1	OS	60	ALA	C-O	-6.21	1.17	1.24
1	EG	23	ALA	C-O	-6.21	1.17	1.24
1	Fi	23	ALA	C-O	-6.21	1.16	1.24
1	M0	49	LEU	C-O	-6.21	1.16	1.24
1	IQ	12	ILE	C-O	-6.21	1.17	1.24
1	Eg	23	ALA	C-O	-6.21	1.17	1.24
1	Ev	23	ALA	C-O	-6.21	1.17	1.24
1	DC	9	LEU	C-O	-6.21	1.16	1.24
1	D3	9	LEU	C-O	-6.21	1.16	1.24
1	DR	9	LEU	C-O	-6.21	1.16	1.24
1	Fn	9	LEU	C-O	-6.21	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ij	12	ILE	C-O	-6.21	1.17	1.24
1	Jr	12	ILE	C-O	-6.21	1.17	1.24
1	Ls	77	ALA	C-O	-6.20	1.16	1.23
1	DM	9	LEU	C-O	-6.20	1.16	1.24
1	OD	60	ALA	C-O	-6.20	1.17	1.24
1	Oh	60	ALA	C-O	-6.20	1.17	1.24
1	NW	23	ALA	C-O	-6.20	1.16	1.24
1	Ow	60	ALA	C-O	-6.20	1.17	1.24
1	DQ	9	LEU	C-O	-6.20	1.16	1.24
1	Du	9	LEU	C-O	-6.20	1.16	1.24
1	Iu	12	ILE	C-O	-6.20	1.17	1.24
1	Df	9	LEU	C-O	-6.20	1.16	1.24
1	En	23	ALA	C-O	-6.20	1.17	1.24
1	FD	9	LEU	C-O	-6.20	1.16	1.24
1	F4	9	LEU	C-O	-6.20	1.16	1.24
1	FS	9	LEU	C-O	-6.20	1.16	1.24
1	FJ	9	LEU	C-O	-6.20	1.16	1.24
2	PO	23	PRO	C-O	-6.20	1.16	1.23
1	DX	9	LEU	C-O	-6.20	1.16	1.24
2	Pv	23	PRO	C-O	-6.20	1.16	1.23
1	FY	9	LEU	C-O	-6.20	1.16	1.24
1	EB	23	ALA	C-O	-6.20	1.17	1.24
2	P7	23	PRO	C-O	-6.20	1.16	1.23
1	EQ	23	ALA	C-O	-6.20	1.17	1.24
1	FQ	9	LEU	C-O	-6.20	1.16	1.24
1	EK	23	ALA	C-O	-6.20	1.17	1.24
2	Pb	23	PRO	C-O	-6.20	1.16	1.23
1	Ej	23	ALA	C-O	-6.20	1.17	1.24
2	Pq	23	PRO	C-O	-6.20	1.16	1.23
1	El	23	ALA	C-O	-6.20	1.17	1.24
1	F5	9	LEU	C-O	-6.19	1.16	1.24
1	F0	9	LEU	C-O	-6.19	1.16	1.24
1	I6	12	ILE	C-O	-6.19	1.17	1.24
1	FK	9	LEU	C-O	-6.19	1.16	1.24
1	IL	12	ILE	C-O	-6.19	1.17	1.24
1	FU	9	LEU	C-O	-6.19	1.16	1.24
1	Ia	12	ILE	C-O	-6.19	1.17	1.24
1	Fj	9	LEU	C-O	-6.19	1.16	1.24
1	OI	60	ALA	C-O	-6.19	1.17	1.24
1	FF	9	LEU	C-O	-6.19	1.16	1.24
1	NN	23	ALA	C-O	-6.19	1.16	1.24
1	Fj	23	ALA	C-O	-6.19	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Jm	12	ILE	C-O	-6.19	1.17	1.24
1	EA	23	ALA	C-O	-6.19	1.17	1.24
1	I7	12	ILE	C-O	-6.19	1.17	1.24
2	PM	23	PRO	C-O	-6.19	1.16	1.23
1	Dt	19	PRO	C-O	-6.19	1.16	1.24
1	Et	23	ALA	C-O	-6.19	1.17	1.24
1	Iq	12	ILE	C-O	-6.19	1.17	1.24
1	FL	9	LEU	C-O	-6.19	1.16	1.24
1	EC	23	ALA	C-O	-6.19	1.17	1.24
1	I5	12	ILE	C-O	-6.19	1.17	1.24
1	NU	23	ALA	C-O	-6.19	1.16	1.24
1	Io	12	ILE	C-O	-6.19	1.17	1.24
1	On	60	ALA	C-O	-6.19	1.17	1.24
1	FB	9	LEU	C-O	-6.18	1.16	1.24
1	Fu	9	LEU	C-O	-6.18	1.16	1.24
1	F7	23	ALA	C-O	-6.18	1.16	1.24
1	FM	23	ALA	C-O	-6.18	1.16	1.24
1	Fb	23	ALA	C-O	-6.18	1.16	1.24
1	Ho	10	GLY	C-O	-6.18	1.15	1.23
1	O3	60	ALA	C-O	-6.18	1.17	1.24
1	Ee	23	ALA	C-O	-6.18	1.17	1.24
1	Ei	46	VAL	C-O	-6.18	1.17	1.24
1	OX	60	ALA	C-O	-6.18	1.17	1.24
1	Ob	60	ALA	C-O	-6.18	1.17	1.24
1	MI	49	LEU	C-O	-6.18	1.17	1.24
1	Om	60	ALA	C-O	-6.18	1.17	1.24
1	F4	23	ALA	C-O	-6.18	1.16	1.24
1	FJ	23	ALA	C-O	-6.18	1.16	1.24
1	Fq	23	ALA	C-O	-6.18	1.16	1.24
1	H0	10	GLY	C-O	-6.18	1.15	1.23
1	HF	10	GLY	C-O	-6.18	1.15	1.23
1	Ne	23	ALA	C-O	-6.18	1.16	1.24
1	HU	10	GLY	C-O	-6.18	1.15	1.23
1	Hj	10	GLY	C-O	-6.18	1.15	1.23
1	MC	49	LEU	C-O	-6.18	1.17	1.24
1	I2	12	ILE	C-O	-6.18	1.17	1.24
1	MR	49	LEU	C-O	-6.18	1.17	1.24
1	Mg	49	LEU	C-O	-6.18	1.17	1.24
1	FZ	9	LEU	C-O	-6.18	1.16	1.24
1	Mv	49	LEU	C-O	-6.18	1.17	1.24
1	Il	12	ILE	C-O	-6.18	1.17	1.24
1	HC	10	GLY	C-O	-6.17	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I5	47	THR	C-O	-6.17	1.16	1.24
1	HR	10	GLY	C-O	-6.17	1.15	1.23
1	Ff	23	ALA	C-O	-6.17	1.16	1.24
1	Fu	23	ALA	C-O	-6.17	1.16	1.24
1	O7	60	ALA	C-O	-6.17	1.17	1.24
1	OM	60	ALA	C-O	-6.17	1.17	1.24
1	Dt	9	LEU	C-O	-6.17	1.16	1.24
1	Oq	60	ALA	C-O	-6.17	1.17	1.24
1	MF	49	LEU	C-O	-6.17	1.17	1.24
1	OC	60	ALA	C-O	-6.17	1.17	1.24
1	H3	10	GLY	C-O	-6.17	1.15	1.23
1	OR	60	ALA	C-O	-6.17	1.17	1.24
1	Hg	10	GLY	C-O	-6.17	1.15	1.23
1	HX	10	GLY	C-O	-6.17	1.15	1.23
1	Hm	10	GLY	C-O	-6.17	1.15	1.23
1	N0	23	ALA	C-O	-6.17	1.17	1.24
1	AM	11	MET	C-O	-6.17	1.16	1.24
1	H8	10	GLY	C-O	-6.17	1.15	1.23
1	IP	12	ILE	C-O	-6.17	1.17	1.24
1	HN	10	GLY	C-O	-6.17	1.15	1.23
1	NY	23	ALA	C-O	-6.17	1.17	1.24
1	Nn	23	ALA	C-O	-6.17	1.17	1.24
1	Hr	10	GLY	C-O	-6.17	1.15	1.23
1	ED	23	ALA	C-O	-6.17	1.17	1.24
1	ID	47	THR	C-O	-6.17	1.16	1.24
1	NE	23	ALA	C-O	-6.17	1.17	1.24
1	I7	47	THR	C-O	-6.17	1.16	1.24
1	ES	23	ALA	C-O	-6.17	1.17	1.24
1	IS	47	THR	C-O	-6.17	1.16	1.24
1	NK	23	ALA	C-O	-6.17	1.17	1.24
1	IM	47	THR	C-O	-6.17	1.16	1.24
1	Ni	23	ALA	C-O	-6.17	1.17	1.24
1	Ib	47	THR	C-O	-6.17	1.16	1.24
1	Nx	23	ALA	C-O	-6.17	1.17	1.24
1	F2	9	LEU	C-O	-6.16	1.16	1.24
1	I4	12	ILE	C-O	-6.16	1.17	1.24
1	FH	9	LEU	C-O	-6.16	1.16	1.24
1	IJ	12	ILE	C-O	-6.16	1.17	1.24
1	FW	9	LEU	C-O	-6.16	1.16	1.24
1	IY	12	ILE	C-O	-6.16	1.17	1.24
1	Ib	12	ILE	C-O	-6.16	1.17	1.24
1	Fm	23	ALA	C-O	-6.16	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	In	12	ILE	C-O	-6.16	1.17	1.24
1	EI	23	ALA	C-O	-6.16	1.17	1.24
1	Eh	23	ALA	C-O	-6.16	1.17	1.24
1	Ie	12	ILE	C-O	-6.16	1.17	1.24
1	Ew	23	ALA	C-O	-6.16	1.17	1.24
1	IA	12	ILE	C-O	-6.16	1.17	1.24
1	IU	12	ILE	C-O	-6.16	1.17	1.24
1	It	12	ILE	C-O	-6.16	1.17	1.24
1	Ip	12	ILE	C-O	-6.16	1.17	1.24
1	Iq	47	THR	C-O	-6.16	1.16	1.24
1	F5	23	ALA	C-O	-6.16	1.17	1.24
1	FK	23	ALA	C-O	-6.16	1.17	1.24
1	IH	47	THR	C-O	-6.16	1.16	1.24
1	EN	23	ALA	C-O	-6.16	1.17	1.24
1	Bl	46	VAL	C-O	-6.16	1.17	1.24
1	I1	12	ILE	C-O	-6.16	1.17	1.24
1	IV	12	ILE	C-O	-6.16	1.17	1.24
1	IY	47	THR	C-O	-6.16	1.16	1.24
1	Id	12	ILE	C-O	-6.16	1.17	1.24
1	In	47	THR	C-O	-6.16	1.16	1.24
1	IB	47	THR	C-O	-6.16	1.16	1.24
1	F9	9	LEU	C-O	-6.16	1.16	1.24
1	OJ	60	ALA	C-O	-6.16	1.17	1.24
1	FO	9	LEU	C-O	-6.16	1.16	1.24
1	If	47	THR	C-O	-6.16	1.16	1.24
1	Iu	47	THR	C-O	-6.16	1.16	1.24
1	Ik	12	ILE	C-O	-6.16	1.17	1.24
1	IM	12	ILE	C-O	-6.15	1.17	1.24
1	IZ	12	ILE	C-O	-6.15	1.17	1.24
1	EE	23	ALA	C-O	-6.15	1.17	1.24
1	F1	9	LEU	C-O	-6.15	1.16	1.24
1	I0	12	ILE	C-O	-6.15	1.17	1.24
1	I9	12	ILE	C-O	-6.15	1.17	1.24
1	FG	9	LEU	C-O	-6.15	1.16	1.24
1	IG	12	ILE	C-O	-6.15	1.17	1.24
1	IK	47	THR	C-O	-6.15	1.16	1.24
1	IO	12	ILE	C-O	-6.15	1.17	1.24
1	IW	12	ILE	C-O	-6.15	1.17	1.24
1	I6	47	THR	C-O	-6.15	1.16	1.24
1	I8	47	THR	C-O	-6.15	1.16	1.24
1	IT	47	THR	C-O	-6.15	1.16	1.24
1	Ia	47	THR	C-O	-6.15	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ic	47	THR	C-O	-6.15	1.16	1.24
1	Jt	12	ILE	C-O	-6.15	1.17	1.24
1	Fk	9	LEU	C-O	-6.15	1.16	1.24
1	Ir	47	THR	C-O	-6.15	1.16	1.24
1	FE	9	LEU	C-O	-6.15	1.16	1.24
1	F0	23	ALA	C-O	-6.15	1.17	1.24
1	O9	60	ALA	C-O	-6.15	1.17	1.24
1	FT	9	LEU	C-O	-6.15	1.16	1.24
1	OO	60	ALA	C-O	-6.15	1.17	1.24
1	FU	23	ALA	C-O	-6.15	1.17	1.24
1	Fs	23	ALA	C-O	-6.15	1.17	1.24
1	H5	10	GLY	C-O	-6.15	1.15	1.23
1	O4	60	ALA	C-O	-6.15	1.17	1.24
1	E9	23	ALA	C-O	-6.15	1.17	1.24
1	ET	23	ALA	C-O	-6.15	1.17	1.24
1	EO	23	ALA	C-O	-6.15	1.17	1.24
1	HZ	10	GLY	C-O	-6.15	1.15	1.23
1	OY	60	ALA	C-O	-6.15	1.17	1.24
1	Ed	23	ALA	C-O	-6.15	1.17	1.24
1	Ek	23	ALA	C-O	-6.15	1.17	1.24
1	I3	12	ILE	C-O	-6.15	1.17	1.24
1	I0	47	THR	C-O	-6.15	1.16	1.24
1	II	12	ILE	C-O	-6.15	1.17	1.24
1	ID	12	ILE	C-O	-6.14	1.17	1.24
1	J9	10	GLY	CA-C	-6.14	1.47	1.52
1	IS	12	ILE	C-O	-6.14	1.17	1.24
1	FH	23	ALA	C-O	-6.14	1.17	1.24
1	JO	10	GLY	CA-C	-6.14	1.47	1.52
1	Jd	10	GLY	CA-C	-6.14	1.47	1.52
1	No	23	ALA	C-O	-6.14	1.17	1.24
1	Fl	23	ALA	C-O	-6.14	1.17	1.24
1	FC	9	LEU	C-O	-6.14	1.16	1.24
1	FD	23	ALA	C-O	-6.14	1.17	1.24
1	F7	9	LEU	C-O	-6.14	1.16	1.24
1	FR	9	LEU	C-O	-6.14	1.16	1.24
1	FM	9	LEU	C-O	-6.14	1.16	1.24
1	Fg	9	LEU	C-O	-6.14	1.16	1.24
1	EV	23	ALA	C-O	-6.14	1.17	1.24
1	IW	47	THR	C-O	-6.14	1.16	1.24
1	Fv	9	LEU	C-O	-6.14	1.16	1.24
1	Fw	23	ALA	C-O	-6.14	1.17	1.24
1	Fn	23	ALA	C-O	-6.14	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Il	47	THR	C-O	-6.14	1.16	1.24
1	Fh	23	ALA	C-O	-6.14	1.17	1.24
1	FY	23	ALA	C-O	-6.14	1.17	1.24
1	FA	23	ALA	C-O	-6.14	1.17	1.24
1	FP	23	ALA	C-O	-6.14	1.17	1.24
1	Fe	23	ALA	C-O	-6.14	1.17	1.24
1	Ft	23	ALA	C-O	-6.14	1.17	1.24
1	Hn	10	GLY	C-O	-6.14	1.15	1.23
1	FB	23	ALA	C-O	-6.14	1.17	1.24
1	FC	23	ALA	C-O	-6.14	1.17	1.24
1	F2	23	ALA	C-O	-6.14	1.17	1.24
1	FQ	23	ALA	C-O	-6.14	1.17	1.24
1	FR	23	ALA	C-O	-6.14	1.17	1.24
1	IQ	47	THR	C-O	-6.14	1.16	1.24
1	Fg	23	ALA	C-O	-6.14	1.17	1.24
1	FW	23	ALA	C-O	-6.14	1.17	1.24
1	MV	49	LEU	C-O	-6.14	1.17	1.24
1	Ed	46	VAL	C-O	-6.14	1.17	1.24
1	Fv	23	ALA	C-O	-6.14	1.17	1.24
1	Es	46	VAL	C-O	-6.14	1.17	1.24
1	ME	49	LEU	C-O	-6.14	1.17	1.24
1	O2	60	ALA	C-O	-6.14	1.17	1.24
1	MT	49	LEU	C-O	-6.14	1.17	1.24
1	OH	60	ALA	C-O	-6.14	1.17	1.24
1	Mi	49	LEU	C-O	-6.14	1.17	1.24
1	OW	60	ALA	C-O	-6.14	1.17	1.24
1	Fb	9	LEU	C-O	-6.14	1.16	1.24
1	Fw	9	LEU	C-O	-6.14	1.16	1.24
1	Mx	49	LEU	C-O	-6.14	1.17	1.24
1	Ol	60	ALA	C-O	-6.14	1.17	1.24
1	Fh	9	LEU	C-O	-6.14	1.16	1.24
1	Mm	49	LEU	C-O	-6.14	1.17	1.24
1	Ff	9	LEU	C-O	-6.13	1.16	1.24
1	FX	9	LEU	C-O	-6.13	1.16	1.24
1	Fc	9	LEU	C-O	-6.13	1.16	1.24
1	MU	49	LEU	C-O	-6.13	1.17	1.24
1	Bu	46	VAL	C-O	-6.13	1.17	1.24
1	Fm	9	LEU	C-O	-6.13	1.16	1.24
1	Mk	49	LEU	C-O	-6.13	1.17	1.24
1	Fr	9	LEU	C-O	-6.13	1.16	1.24
1	Mj	49	LEU	C-O	-6.13	1.17	1.24
1	IB	12	ILE	C-O	-6.13	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M5	49	LEU	C-O	-6.13	1.17	1.24
1	If	12	ILE	C-O	-6.13	1.17	1.24
1	FV	23	ALA	C-O	-6.13	1.17	1.24
1	MK	49	LEU	C-O	-6.13	1.17	1.24
1	I1	47	THR	C-O	-6.13	1.16	1.24
1	IF	47	THR	C-O	-6.13	1.16	1.24
1	Of	60	ALA	C-O	-6.13	1.17	1.24
1	Ou	60	ALA	C-O	-6.13	1.17	1.24
1	IE	47	THR	C-O	-6.13	1.16	1.24
1	M3	49	LEU	C-O	-6.13	1.17	1.24
1	IF	12	ILE	C-O	-6.13	1.17	1.24
1	Fe	9	LEU	C-O	-6.13	1.16	1.24
1	MX	49	LEU	C-O	-6.13	1.17	1.24
1	Fd	9	LEU	C-O	-6.13	1.16	1.24
1	Ft	9	LEU	C-O	-6.13	1.16	1.24
1	Fs	9	LEU	C-O	-6.13	1.16	1.24
1	I2	47	THR	C-O	-6.13	1.16	1.24
1	Ge	83	ARG	C-O	-6.13	1.17	1.24
1	Ex	23	ALA	C-O	-6.13	1.17	1.24
1	Gt	83	ARG	C-O	-6.13	1.17	1.24
1	Eo	23	ALA	C-O	-6.13	1.17	1.24
1	FA	9	LEU	C-O	-6.12	1.16	1.24
1	FP	9	LEU	C-O	-6.12	1.16	1.24
1	Hv	10	GLY	C-O	-6.12	1.15	1.23
1	F1	23	ALA	C-O	-6.12	1.17	1.24
1	F9	23	ALA	C-O	-6.12	1.17	1.24
1	M8	49	LEU	C-O	-6.12	1.17	1.24
1	FI	23	ALA	C-O	-6.12	1.17	1.24
1	FO	23	ALA	C-O	-6.12	1.17	1.24
1	MN	49	LEU	C-O	-6.12	1.17	1.24
1	FV	9	LEU	C-O	-6.12	1.16	1.24
1	Fd	23	ALA	C-O	-6.12	1.17	1.24
1	Mc	49	LEU	C-O	-6.12	1.17	1.24
1	Fk	23	ALA	C-O	-6.12	1.17	1.24
1	Nl	23	ALA	C-O	-6.12	1.17	1.24
1	Mr	49	LEU	C-O	-6.12	1.17	1.24
1	F8	9	LEU	C-O	-6.12	1.16	1.24
1	IG	47	THR	C-O	-6.12	1.16	1.24
1	Ns	23	ALA	C-O	-6.12	1.17	1.24
1	Ei	23	ALA	C-O	-6.12	1.17	1.24
1	EZ	23	ALA	C-O	-6.12	1.17	1.24
1	F3	9	LEU	C-O	-6.12	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	FI	9	LEU	C-O	-6.12	1.16	1.24
1	Ih	12	ILE	C-O	-6.12	1.17	1.24
1	IX	47	THR	C-O	-6.12	1.16	1.24
1	Fa	9	LEU	C-O	-6.12	1.16	1.24
1	Iw	12	ILE	C-O	-6.12	1.17	1.24
1	Fp	9	LEU	C-O	-6.12	1.16	1.24
1	Hp	10	GLY	C-O	-6.12	1.15	1.23
1	N9	23	ALA	C-O	-6.12	1.17	1.24
1	NO	23	ALA	C-O	-6.12	1.17	1.24
1	Od	60	ALA	C-O	-6.12	1.17	1.24
1	HA	10	GLY	C-O	-6.12	1.15	1.23
1	F3	23	ALA	C-O	-6.12	1.17	1.24
1	H1	10	GLY	C-O	-6.12	1.15	1.23
1	H6	10	GLY	C-O	-6.12	1.15	1.23
1	CS	12	ILE	C-O	-6.12	1.17	1.24
1	HP	10	GLY	C-O	-6.12	1.15	1.23
1	FG	23	ALA	C-O	-6.12	1.17	1.24
1	HG	10	GLY	C-O	-6.12	1.15	1.23
1	HL	10	GLY	C-O	-6.12	1.15	1.23
1	He	10	GLY	C-O	-6.12	1.15	1.23
1	FX	23	ALA	C-O	-6.12	1.17	1.24
1	HV	10	GLY	C-O	-6.12	1.15	1.23
1	Ha	10	GLY	C-O	-6.12	1.15	1.23
1	Ic	12	ILE	C-O	-6.12	1.17	1.24
1	Du	79	HIS	C-O	-6.12	1.16	1.23
1	Ht	10	GLY	C-O	-6.12	1.15	1.23
1	Hk	10	GLY	C-O	-6.12	1.15	1.23
1	HB	10	GLY	C-O	-6.11	1.15	1.23
1	IC	12	ILE	C-O	-6.11	1.17	1.24
1	HQ	10	GLY	C-O	-6.11	1.15	1.23
1	IR	12	ILE	C-O	-6.11	1.17	1.24
1	NJ	23	ALA	C-O	-6.11	1.17	1.24
1	Hf	10	GLY	C-O	-6.11	1.15	1.23
1	Ig	12	ILE	C-O	-6.11	1.17	1.24
1	IU	47	THR	C-O	-6.11	1.16	1.24
1	Hu	10	GLY	C-O	-6.11	1.15	1.23
1	Iv	12	ILE	C-O	-6.11	1.17	1.24
1	Cp	12	ILE	C-O	-6.11	1.17	1.24
1	Ij	47	THR	C-O	-6.11	1.16	1.24
1	HJ	53	GLU	C-O	-6.11	1.15	1.23
1	OB	60	ALA	C-O	-6.11	1.17	1.24
1	EW	46	VAL	C-O	-6.11	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I3	47	THR	C-O	-6.11	1.16	1.24
1	F8	23	ALA	C-O	-6.11	1.17	1.24
1	II	47	THR	C-O	-6.11	1.16	1.24
1	FN	23	ALA	C-O	-6.11	1.17	1.24
1	IN	47	THR	C-O	-6.11	1.16	1.24
1	Ii	47	THR	C-O	-6.11	1.16	1.24
1	FN	9	LEU	C-O	-6.11	1.16	1.24
1	IV	47	THR	C-O	-6.11	1.16	1.24
1	Fo	9	LEU	C-O	-6.11	1.16	1.24
1	Ik	47	THR	C-O	-6.11	1.16	1.24
1	Gp	83	ARG	C-O	-6.11	1.17	1.24
1	M1	49	LEU	C-O	-6.10	1.17	1.24
1	MG	49	LEU	C-O	-6.10	1.17	1.24
1	Es	23	ALA	C-O	-6.10	1.17	1.24
1	I9	47	THR	C-O	-6.10	1.16	1.24
1	IO	47	THR	C-O	-6.10	1.16	1.24
1	Id	47	THR	C-O	-6.10	1.16	1.24
1	Ex	46	VAL	C-O	-6.10	1.17	1.24
1	O5	60	ALA	C-O	-6.10	1.17	1.24
1	H9	53	GLU	C-O	-6.10	1.15	1.23
1	OK	60	ALA	C-O	-6.10	1.17	1.24
1	HO	10	GLY	C-O	-6.10	1.15	1.23
1	HO	53	GLU	C-O	-6.10	1.15	1.23
1	OZ	60	ALA	C-O	-6.10	1.17	1.24
1	Hd	53	GLU	C-O	-6.10	1.15	1.23
1	Oo	60	ALA	C-O	-6.10	1.17	1.24
1	ED	46	VAL	C-O	-6.10	1.17	1.24
1	E4	46	VAL	C-O	-6.10	1.17	1.24
1	I4	47	THR	C-O	-6.10	1.16	1.24
1	ES	46	VAL	C-O	-6.10	1.17	1.24
1	EJ	46	VAL	C-O	-6.10	1.17	1.24
1	HH	53	GLU	C-O	-6.10	1.15	1.23
1	IJ	47	THR	C-O	-6.10	1.16	1.24
1	IL	47	THR	C-O	-6.10	1.16	1.24
1	Fi	9	LEU	C-O	-6.10	1.16	1.24
1	HU	53	GLU	C-O	-6.10	1.15	1.23
1	Fx	9	LEU	C-O	-6.10	1.16	1.24
1	En	46	VAL	C-O	-6.10	1.17	1.24
1	Im	12	ILE	C-O	-6.10	1.17	1.24
1	O6	60	ALA	C-O	-6.10	1.17	1.24
1	OL	60	ALA	C-O	-6.10	1.17	1.24
1	Op	60	ALA	C-O	-6.10	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	EY	46	VAL	C-O	-6.09	1.17	1.24
1	OA	60	ALA	C-O	-6.09	1.17	1.24
1	H4	53	GLU	C-O	-6.09	1.15	1.23
1	O1	60	ALA	C-O	-6.09	1.17	1.24
1	OP	60	ALA	C-O	-6.09	1.17	1.24
1	OG	60	ALA	C-O	-6.09	1.17	1.24
1	Oe	60	ALA	C-O	-6.09	1.17	1.24
1	Ok	60	ALA	C-O	-6.09	1.17	1.24
1	OE	60	ALA	C-O	-6.09	1.17	1.24
1	Oi	60	ALA	C-O	-6.09	1.17	1.24
1	Is	47	THR	C-O	-6.09	1.16	1.24
1	A7	11	MET	C-O	-6.09	1.16	1.24
1	NJ	9	LEU	C-O	-6.09	1.16	1.24
1	FZ	23	ALA	C-O	-6.09	1.17	1.24
1	Ab	11	MET	C-O	-6.09	1.16	1.24
1	Fx	23	ALA	C-O	-6.09	1.17	1.24
1	Fo	23	ALA	C-O	-6.09	1.17	1.24
1	Aq	11	MET	C-O	-6.09	1.16	1.24
1	Ip	47	THR	C-O	-6.09	1.16	1.24
1	GM	83	ARG	C-O	-6.09	1.17	1.24
1	MZ	49	LEU	C-O	-6.09	1.17	1.24
1	Oa	60	ALA	C-O	-6.09	1.17	1.24
1	Mo	49	LEU	C-O	-6.09	1.17	1.24
1	Gq	83	ARG	C-O	-6.09	1.17	1.24
1	HS	53	GLU	C-O	-6.08	1.15	1.23
1	Hh	53	GLU	C-O	-6.08	1.15	1.23
1	Hw	53	GLU	C-O	-6.08	1.15	1.23
1	GG	83	ARG	C-O	-6.08	1.17	1.24
1	He	53	GLU	C-O	-6.08	1.15	1.23
1	Ht	53	GLU	C-O	-6.08	1.15	1.23
1	O8	60	ALA	C-O	-6.08	1.17	1.24
1	NG	9	LEU	C-O	-6.08	1.16	1.24
1	ON	60	ALA	C-O	-6.08	1.17	1.24
1	Jq	10	GLY	CA-C	-6.08	1.47	1.52
1	H2	10	GLY	C-O	-6.08	1.15	1.23
1	HH	10	GLY	C-O	-6.08	1.15	1.23
1	HW	10	GLY	C-O	-6.08	1.15	1.23
1	Hl	10	GLY	C-O	-6.08	1.15	1.23
1	A2	11	MET	C-O	-6.08	1.16	1.24
1	Ew	46	VAL	C-O	-6.08	1.17	1.24
1	IC	47	THR	C-O	-6.08	1.16	1.24
1	H4	10	GLY	C-O	-6.08	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H7	10	GLY	C-O	-6.08	1.15	1.23
1	M6	49	LEU	C-O	-6.08	1.17	1.24
1	EQ	46	VAL	C-O	-6.08	1.17	1.24
1	IR	47	THR	C-O	-6.08	1.16	1.24
1	HJ	10	GLY	C-O	-6.08	1.15	1.23
1	HM	10	GLY	C-O	-6.08	1.15	1.23
1	Hh	10	GLY	C-O	-6.08	1.15	1.23
1	HY	10	GLY	C-O	-6.08	1.15	1.23
1	Hb	10	GLY	C-O	-6.08	1.15	1.23
1	HE	10	GLY	C-O	-6.08	1.15	1.23
1	M9	49	LEU	C-O	-6.08	1.17	1.24
1	HT	10	GLY	C-O	-6.08	1.15	1.23
1	HM	53	GLU	C-O	-6.08	1.15	1.23
1	Hi	10	GLY	C-O	-6.08	1.15	1.23
1	HY	53	GLU	C-O	-6.08	1.15	1.23
1	Hb	53	GLU	C-O	-6.08	1.15	1.23
1	Md	49	LEU	C-O	-6.08	1.17	1.24
1	Hx	10	GLY	C-O	-6.08	1.15	1.23
1	Ju	10	GLY	CA-C	-6.08	1.47	1.52
1	Hn	53	GLU	C-O	-6.08	1.15	1.23
1	EE	46	VAL	C-O	-6.07	1.17	1.24
1	NA	9	LEU	C-O	-6.07	1.16	1.24
1	N6	9	LEU	C-O	-6.07	1.16	1.24
1	ET	46	VAL	C-O	-6.07	1.17	1.24
1	NP	9	LEU	C-O	-6.07	1.16	1.24
1	Eh	46	VAL	C-O	-6.07	1.17	1.24
1	IX	12	ILE	C-O	-6.07	1.17	1.24
1	Go	83	ARG	C-O	-6.07	1.17	1.24
1	NL	9	LEU	C-O	-6.07	1.16	1.24
1	GX	83	ARG	C-O	-6.07	1.17	1.24
1	Ga	83	ARG	C-O	-6.07	1.17	1.24
1	CE	12	ILE	C-O	-6.07	1.17	1.24
1	HB	53	GLU	C-O	-6.07	1.15	1.23
1	H2	53	GLU	C-O	-6.07	1.15	1.23
1	H0	53	GLU	C-O	-6.07	1.15	1.23
1	HQ	53	GLU	C-O	-6.07	1.15	1.23
1	IP	47	THR	C-O	-6.07	1.16	1.24
1	HF	53	GLU	C-O	-6.07	1.15	1.23
1	ML	49	LEU	C-O	-6.07	1.17	1.24
1	Hf	53	GLU	C-O	-6.07	1.15	1.23
1	NW	9	LEU	C-O	-6.07	1.16	1.24
1	Nl	9	LEU	C-O	-6.07	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hj	53	GLU	C-O	-6.07	1.15	1.23
1	Hq	10	GLY	C-O	-6.07	1.15	1.23
1	Ms	49	LEU	C-O	-6.07	1.17	1.24
1	D0	79	HIS	C-O	-6.07	1.16	1.23
1	F6	23	ALA	C-O	-6.07	1.17	1.24
1	I8	12	ILE	C-O	-6.07	1.17	1.24
1	FS	23	ALA	C-O	-6.07	1.17	1.24
1	DL	79	HIS	C-O	-6.07	1.16	1.23
1	DX	79	HIS	C-O	-6.07	1.16	1.23
1	Dm	79	HIS	C-O	-6.07	1.16	1.23
1	FL	23	ALA	C-O	-6.07	1.17	1.24
1	D6	79	HIS	C-O	-6.07	1.16	1.23
1	HD	53	GLU	C-O	-6.07	1.15	1.23
1	N8	9	LEU	C-O	-6.07	1.16	1.24
1	Hg	53	GLU	C-O	-6.07	1.15	1.23
1	CU	12	ILE	C-O	-6.07	1.17	1.24
1	Nc	9	LEU	C-O	-6.07	1.16	1.24
1	Nr	9	LEU	C-O	-6.07	1.16	1.24
1	K8	77	ALA	C-O	-6.06	1.16	1.23
1	N0	9	LEU	C-O	-6.06	1.16	1.24
1	EO	46	VAL	C-O	-6.06	1.17	1.24
1	NN	9	LEU	C-O	-6.06	1.16	1.24
1	NU	9	LEU	C-O	-6.06	1.16	1.24
1	Kr	77	ALA	C-O	-6.06	1.16	1.23
1	Nj	9	LEU	C-O	-6.06	1.16	1.24
1	GA	83	ARG	C-O	-6.06	1.17	1.24
1	O0	60	ALA	C-O	-6.06	1.17	1.24
1	GP	83	ARG	C-O	-6.06	1.17	1.24
1	KN	77	ALA	C-O	-6.06	1.16	1.23
1	OF	60	ALA	C-O	-6.06	1.17	1.24
1	Be	46	VAL	C-O	-6.06	1.17	1.24
1	Kc	77	ALA	C-O	-6.06	1.16	1.23
1	OU	60	ALA	C-O	-6.06	1.17	1.24
1	IA	47	THR	C-O	-6.06	1.16	1.24
1	OV	60	ALA	C-O	-6.06	1.17	1.24
1	Df	79	HIS	C-O	-6.06	1.16	1.23
1	E9	46	VAL	C-O	-6.06	1.17	1.24
1	KR	77	ALA	C-O	-6.06	1.16	1.23
1	Ct	12	ILE	C-O	-6.06	1.17	1.24
1	Os	60	ALA	C-O	-6.06	1.17	1.24
1	G5	83	ARG	C-O	-6.06	1.17	1.24
1	GK	83	ARG	C-O	-6.06	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Eg	46	VAL	C-O	-6.06	1.17	1.24
1	GZ	83	ARG	C-O	-6.06	1.17	1.24
1	Ea	46	VAL	C-O	-6.06	1.17	1.24
1	Hd	10	GLY	C-O	-6.06	1.15	1.23
1	Nd	23	ALA	C-O	-6.06	1.17	1.24
1	Hs	10	GLY	C-O	-6.06	1.15	1.23
1	E2	46	VAL	C-O	-6.06	1.17	1.24
1	C6	12	ILE	C-O	-6.06	1.17	1.24
1	K7	77	ALA	C-O	-6.06	1.16	1.23
1	EH	46	VAL	C-O	-6.06	1.17	1.24
1	CL	12	ILE	C-O	-6.06	1.17	1.24
1	KM	77	ALA	C-O	-6.06	1.16	1.23
1	Ef	46	VAL	C-O	-6.06	1.17	1.24
1	MY	49	LEU	C-O	-6.06	1.17	1.24
1	Im	47	THR	C-O	-6.06	1.16	1.24
1	Mn	49	LEU	C-O	-6.06	1.17	1.24
1	Js	10	GLY	CA-C	-6.06	1.47	1.52
1	Ej	46	VAL	C-O	-6.05	1.17	1.24
1	EC	46	VAL	C-O	-6.05	1.17	1.24
1	ER	46	VAL	C-O	-6.05	1.17	1.24
1	Kh	47	THR	C-O	-6.05	1.16	1.24
1	Kw	47	THR	C-O	-6.05	1.16	1.24
1	G1	83	ARG	C-O	-6.05	1.17	1.24
1	G6	83	ARG	C-O	-6.05	1.17	1.24
1	GL	83	ARG	C-O	-6.05	1.17	1.24
1	It	47	THR	C-O	-6.05	1.16	1.24
1	A9	11	MET	C-O	-6.05	1.16	1.24
1	CZ	12	ILE	C-O	-6.05	1.17	1.24
1	N5	9	LEU	C-O	-6.05	1.16	1.24
1	NK	9	LEU	C-O	-6.05	1.16	1.24
1	AD	11	MET	C-O	-6.05	1.16	1.24
1	MA	49	LEU	C-O	-6.05	1.17	1.24
1	AS	11	MET	C-O	-6.05	1.16	1.24
1	MP	49	LEU	C-O	-6.05	1.17	1.24
1	NR	9	LEU	C-O	-6.05	1.16	1.24
1	MO	49	LEU	C-O	-6.05	1.17	1.24
1	Ah	11	MET	C-O	-6.05	1.16	1.24
1	Me	49	LEU	C-O	-6.05	1.17	1.24
1	Aw	11	MET	C-O	-6.05	1.16	1.24
1	Mt	49	LEU	C-O	-6.05	1.17	1.24
1	Jn	10	GLY	CA-C	-6.05	1.47	1.52
1	Hs	53	GLU	C-O	-6.05	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	JY	10	GLY	CA-C	-6.05	1.47	1.52
1	Dj	79	HIS	C-O	-6.05	1.16	1.23
1	Ig	47	THR	C-O	-6.04	1.16	1.24
1	Iv	47	THR	C-O	-6.04	1.16	1.24
1	Ox	60	ALA	C-O	-6.04	1.17	1.24
1	HA	53	GLU	C-O	-6.04	1.15	1.23
1	E7	46	VAL	C-O	-6.04	1.17	1.24
1	HP	53	GLU	C-O	-6.04	1.15	1.23
1	EM	46	VAL	C-O	-6.04	1.17	1.24
1	Ie	47	THR	C-O	-6.04	1.16	1.24
1	Ca	12	ILE	C-O	-6.04	1.17	1.24
1	Eb	46	VAL	C-O	-6.04	1.17	1.24
1	Eq	46	VAL	C-O	-6.04	1.17	1.24
1	H9	10	GLY	C-O	-6.04	1.15	1.23
1	CH	12	ILE	C-O	-6.04	1.17	1.24
1	Nf	9	LEU	C-O	-6.04	1.16	1.24
1	HW	53	GLU	C-O	-6.04	1.15	1.23
1	Hu	53	GLU	C-O	-6.04	1.15	1.23
1	Ix	47	THR	C-O	-6.04	1.16	1.24
1	Nu	9	LEU	C-O	-6.04	1.16	1.24
1	HD	10	GLY	C-O	-6.04	1.15	1.23
1	Hv	53	GLU	C-O	-6.04	1.15	1.23
1	Fr	23	ALA	C-O	-6.04	1.17	1.24
1	KB	77	ALA	C-O	-6.04	1.16	1.23
1	K2	77	ALA	C-O	-6.04	1.16	1.23
1	K3	77	ALA	C-O	-6.04	1.16	1.23
1	CT	12	ILE	C-O	-6.04	1.17	1.24
1	KQ	77	ALA	C-O	-6.04	1.16	1.23
1	CJ	12	ILE	C-O	-6.04	1.17	1.24
1	KH	77	ALA	C-O	-6.04	1.16	1.23
1	Ci	12	ILE	C-O	-6.04	1.17	1.24
1	Kf	77	ALA	C-O	-6.04	1.16	1.23
1	CY	12	ILE	C-O	-6.04	1.17	1.24
1	KW	77	ALA	C-O	-6.04	1.16	1.23
1	KX	77	ALA	C-O	-6.04	1.16	1.23
1	Fc	23	ALA	C-O	-6.04	1.17	1.24
1	Ku	77	ALA	C-O	-6.04	1.16	1.23
1	Cn	12	ILE	C-O	-6.04	1.17	1.24
1	Kl	77	ALA	C-O	-6.04	1.16	1.23
1	KI	77	ALA	C-O	-6.04	1.16	1.23
1	Ne	9	LEU	C-O	-6.04	1.16	1.24
1	Nt	9	LEU	C-O	-6.04	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Km	47	THR	C-O	-6.04	1.16	1.24
1	BA	46	VAL	C-O	-6.04	1.17	1.24
1	NC	9	LEU	C-O	-6.04	1.16	1.24
1	N2	9	LEU	C-O	-6.04	1.16	1.24
1	BP	46	VAL	C-O	-6.04	1.17	1.24
1	BQ	46	VAL	C-O	-6.04	1.17	1.24
1	NH	9	LEU	C-O	-6.04	1.16	1.24
1	IN	12	ILE	C-O	-6.04	1.17	1.24
1	Bt	46	VAL	C-O	-6.04	1.17	1.24
1	Ot	60	ALA	C-O	-6.04	1.17	1.24
1	Fq	9	LEU	C-O	-6.04	1.16	1.24
1	CD	12	ILE	C-O	-6.03	1.17	1.24
1	D5	79	HIS	C-O	-6.03	1.16	1.23
1	G7	83	ARG	C-O	-6.03	1.17	1.24
1	HS	10	GLY	C-O	-6.03	1.15	1.23
1	OT	60	ALA	C-O	-6.03	1.17	1.24
1	DK	79	HIS	C-O	-6.03	1.16	1.23
1	Dg	79	HIS	C-O	-6.03	1.16	1.23
1	HZ	53	GLU	C-O	-6.03	1.15	1.23
1	Cb	12	ILE	C-O	-6.03	1.17	1.24
1	Gb	83	ARG	C-O	-6.03	1.17	1.24
1	Hw	10	GLY	C-O	-6.03	1.15	1.23
1	Kt	47	THR	C-O	-6.03	1.16	1.24
1	D3	79	HIS	C-O	-6.03	1.16	1.23
1	NZ	9	LEU	C-O	-6.03	1.16	1.24
1	Cd	12	ILE	C-O	-6.03	1.17	1.24
1	Ho	53	GLU	C-O	-6.03	1.15	1.23
1	No	9	LEU	C-O	-6.03	1.16	1.24
1	DI	79	HIS	C-O	-6.03	1.16	1.23
1	H1	53	GLU	C-O	-6.03	1.15	1.23
1	H5	53	GLU	C-O	-6.03	1.15	1.23
1	N4	9	LEU	C-O	-6.03	1.16	1.24
1	H6	53	GLU	C-O	-6.03	1.15	1.23
1	H7	53	GLU	C-O	-6.03	1.15	1.23
1	HG	53	GLU	C-O	-6.03	1.15	1.23
1	HK	53	GLU	C-O	-6.03	1.15	1.23
1	HL	53	GLU	C-O	-6.03	1.15	1.23
1	Bf	46	VAL	C-O	-6.03	1.17	1.24
1	Ng	9	LEU	C-O	-6.03	1.16	1.24
1	HV	53	GLU	C-O	-6.03	1.15	1.23
1	NY	9	LEU	C-O	-6.03	1.16	1.24
1	Ha	53	GLU	C-O	-6.03	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Na	9	LEU	C-O	-6.03	1.16	1.24
1	Hk	53	GLU	C-O	-6.03	1.15	1.23
1	Hm	53	GLU	C-O	-6.03	1.15	1.23
1	Hq	53	GLU	C-O	-6.03	1.15	1.23
1	Mp	49	LEU	C-O	-6.03	1.17	1.24
1	Np	9	LEU	C-O	-6.03	1.16	1.24
1	Cq	12	ILE	C-O	-6.03	1.17	1.24
1	M4	49	LEU	C-O	-6.03	1.17	1.24
1	JJ	10	GLY	CA-C	-6.03	1.47	1.52
1	Jh	10	GLY	CA-C	-6.03	1.47	1.52
1	Fa	23	ALA	C-O	-6.03	1.17	1.24
1	Kb	77	ALA	C-O	-6.03	1.16	1.23
1	Ao	11	MET	C-O	-6.03	1.16	1.24
1	Fp	23	ALA	C-O	-6.03	1.17	1.24
1	Kq	77	ALA	C-O	-6.03	1.16	1.23
1	DQ	79	HIS	C-O	-6.03	1.16	1.23
1	Gh	83	ARG	C-O	-6.03	1.17	1.24
1	Jr	10	GLY	CA-C	-6.03	1.48	1.52
1	C9	12	ILE	C-O	-6.02	1.17	1.24
1	E8	46	VAL	C-O	-6.02	1.17	1.24
1	MJ	49	LEU	C-O	-6.02	1.17	1.24
1	AO	11	MET	C-O	-6.02	1.16	1.24
1	EN	46	VAL	C-O	-6.02	1.17	1.24
1	Ad	11	MET	C-O	-6.02	1.16	1.24
1	Cs	12	ILE	C-O	-6.02	1.17	1.24
1	Er	46	VAL	C-O	-6.02	1.17	1.24
1	HE	53	GLU	C-O	-6.02	1.15	1.23
1	HT	53	GLU	C-O	-6.02	1.15	1.23
1	AH	11	MET	C-O	-6.02	1.16	1.24
1	Hi	53	GLU	C-O	-6.02	1.15	1.23
1	AW	11	MET	C-O	-6.02	1.16	1.24
1	Ma	49	LEU	C-O	-6.02	1.17	1.24
1	Hx	53	GLU	C-O	-6.02	1.15	1.23
1	Kq	47	THR	C-O	-6.02	1.16	1.24
1	Ns	9	LEU	C-O	-6.02	1.16	1.24
1	DA	79	HIS	C-O	-6.02	1.16	1.23
1	D1	79	HIS	C-O	-6.02	1.16	1.23
1	D9	79	HIS	C-O	-6.02	1.16	1.23
1	DP	79	HIS	C-O	-6.02	1.16	1.23
1	DO	79	HIS	C-O	-6.02	1.16	1.23
1	De	79	HIS	C-O	-6.02	1.16	1.23
1	DV	79	HIS	C-O	-6.02	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Dt	79	HIS	C-O	-6.02	1.16	1.23
1	N3	9	LEU	C-O	-6.02	1.16	1.24
1	KR	47	THR	C-O	-6.02	1.16	1.24
1	GV	83	ARG	C-O	-6.02	1.17	1.24
1	NX	9	LEU	C-O	-6.02	1.16	1.24
1	Hc	53	GLU	C-O	-6.02	1.15	1.23
1	Et	46	VAL	C-O	-6.02	1.17	1.24
1	Gk	83	ARG	C-O	-6.02	1.17	1.24
1	Nn	9	LEU	C-O	-6.02	1.16	1.24
1	Ir	12	ILE	C-O	-6.02	1.17	1.24
1	NI	9	LEU	C-O	-6.02	1.16	1.24
1	Nm	9	LEU	C-O	-6.02	1.16	1.24
1	DC	79	HIS	C-O	-6.02	1.16	1.23
1	E5	46	VAL	C-O	-6.02	1.17	1.24
1	K4	77	ALA	C-O	-6.02	1.16	1.23
1	M2	49	LEU	C-O	-6.02	1.17	1.24
1	H8	53	GLU	C-O	-6.02	1.15	1.23
1	KJ	77	ALA	C-O	-6.02	1.16	1.23
1	MH	49	LEU	C-O	-6.02	1.17	1.24
1	HN	53	GLU	C-O	-6.02	1.15	1.23
1	CW	12	ILE	C-O	-6.02	1.17	1.24
1	EZ	46	VAL	C-O	-6.02	1.17	1.24
1	MW	49	LEU	C-O	-6.02	1.17	1.24
1	Cl	12	ILE	C-O	-6.02	1.17	1.24
1	Eo	46	VAL	C-O	-6.02	1.17	1.24
1	Ml	49	LEU	C-O	-6.02	1.17	1.24
1	Hr	53	GLU	C-O	-6.02	1.15	1.23
1	E1	46	VAL	C-O	-6.02	1.17	1.24
1	CG	12	ILE	C-O	-6.02	1.17	1.24
1	EG	46	VAL	C-O	-6.02	1.17	1.24
1	BZ	46	VAL	C-O	-6.02	1.17	1.24
1	EV	46	VAL	C-O	-6.02	1.17	1.24
1	GD	83	ARG	C-O	-6.01	1.17	1.24
1	K5	77	ALA	C-O	-6.01	1.16	1.23
1	GS	83	ARG	C-O	-6.01	1.17	1.24
1	KT	77	ALA	C-O	-6.01	1.16	1.23
1	BK	46	VAL	C-O	-6.01	1.17	1.24
1	KK	77	ALA	C-O	-6.01	1.16	1.23
1	Ki	77	ALA	C-O	-6.01	1.16	1.23
1	KC	47	THR	C-O	-6.01	1.16	1.24
1	N1	9	LEU	C-O	-6.01	1.16	1.24
1	N9	9	LEU	C-O	-6.01	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	NO	9	LEU	C-O	-6.01	1.16	1.24
1	NV	9	LEU	C-O	-6.01	1.16	1.24
1	Nd	9	LEU	C-O	-6.01	1.16	1.24
1	Nk	9	LEU	C-O	-6.01	1.16	1.24
1	E6	46	VAL	C-O	-6.01	1.17	1.24
1	Bg	20	ALA	C-O	-6.01	1.17	1.24
1	EX	46	VAL	C-O	-6.01	1.17	1.24
1	KZ	77	ALA	C-O	-6.01	1.16	1.23
1	Ek	46	VAL	C-O	-6.01	1.17	1.24
1	Hl	53	GLU	C-O	-6.01	1.15	1.23
1	Ep	46	VAL	C-O	-6.01	1.17	1.24
1	EI	46	VAL	C-O	-6.01	1.17	1.24
1	Em	46	VAL	C-O	-6.01	1.17	1.24
1	E3	46	VAL	C-O	-6.01	1.17	1.24
1	K1	77	ALA	C-O	-6.01	1.16	1.23
1	MS	49	LEU	C-O	-6.01	1.17	1.24
1	KG	77	ALA	C-O	-6.01	1.16	1.23
1	NF	9	LEU	C-O	-6.01	1.16	1.24
1	KV	77	ALA	C-O	-6.01	1.16	1.23
1	Kk	77	ALA	C-O	-6.01	1.16	1.23
1	DE	79	HIS	C-O	-6.01	1.16	1.23
1	A4	11	MET	C-O	-6.01	1.16	1.24
1	C4	12	ILE	C-O	-6.01	1.17	1.24
1	DT	79	HIS	C-O	-6.01	1.16	1.23
1	AJ	11	MET	C-O	-6.01	1.16	1.24
1	Ba	46	VAL	C-O	-6.01	1.17	1.24
1	Ev	46	VAL	C-O	-6.01	1.17	1.24
1	Gw	83	ARG	C-O	-6.01	1.17	1.24
1	Bp	46	VAL	C-O	-6.01	1.17	1.24
1	C5	12	ILE	C-O	-6.01	1.17	1.24
1	K0	77	ALA	C-O	-6.01	1.16	1.23
1	NQ	9	LEU	C-O	-6.01	1.16	1.24
1	KF	77	ALA	C-O	-6.01	1.16	1.23
1	Ch	12	ILE	C-O	-6.01	1.17	1.24
1	KX	47	THR	C-O	-6.01	1.16	1.24
1	Co	12	ILE	C-O	-6.01	1.17	1.24
1	MD	49	LEU	C-O	-6.00	1.17	1.24
1	H3	53	GLU	C-O	-6.00	1.15	1.23
1	BH	46	VAL	C-O	-6.00	1.17	1.24
1	HI	53	GLU	C-O	-6.00	1.15	1.23
1	CO	12	ILE	C-O	-6.00	1.17	1.24
1	Jf	10	GLY	CA-C	-6.00	1.48	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Mh	49	LEU	C-O	-6.00	1.17	1.24
1	BW	46	VAL	C-O	-6.00	1.17	1.24
1	CV	12	ILE	C-O	-6.00	1.17	1.24
1	HX	53	GLU	C-O	-6.00	1.15	1.23
1	Mw	49	LEU	C-O	-6.00	1.17	1.24
1	Ck	12	ILE	C-O	-6.00	1.17	1.24
1	HC	53	GLU	C-O	-6.00	1.15	1.23
1	C0	12	ILE	C-O	-6.00	1.17	1.24
1	HR	53	GLU	C-O	-6.00	1.15	1.23
1	CF	12	ILE	C-O	-6.00	1.17	1.24
1	NM	9	LEU	C-O	-6.00	1.16	1.24
1	Oc	60	ALA	C-O	-6.00	1.17	1.24
1	Or	60	ALA	C-O	-6.00	1.17	1.24
1	EB	46	VAL	C-O	-6.00	1.17	1.24
1	Bx	46	VAL	C-O	-6.00	1.17	1.24
1	Eu	46	VAL	C-O	-6.00	1.17	1.24
1	B0	46	VAL	C-O	-6.00	1.17	1.24
1	NB	9	LEU	C-O	-6.00	1.16	1.24
1	Be	20	ALA	C-O	-6.00	1.17	1.24
1	CX	12	ILE	C-O	-6.00	1.17	1.24
1	Oj	60	ALA	C-O	-6.00	1.17	1.24
1	Gg	83	ARG	C-O	-6.00	1.17	1.24
1	BX	46	VAL	C-O	-6.00	1.17	1.24
1	Da	79	HIS	C-O	-6.00	1.16	1.23
1	Dv	79	HIS	C-O	-6.00	1.16	1.23
1	Gv	83	ARG	C-O	-6.00	1.17	1.24
1	Bm	46	VAL	C-O	-6.00	1.17	1.24
1	DR	79	HIS	C-O	-6.00	1.16	1.23
1	BS	46	VAL	C-O	-6.00	1.17	1.24
1	DM	79	HIS	C-O	-6.00	1.16	1.23
1	KC	77	ALA	C-O	-5.99	1.16	1.23
1	ND	9	LEU	C-O	-5.99	1.16	1.24
1	NS	9	LEU	C-O	-5.99	1.16	1.24
1	Nh	9	LEU	C-O	-5.99	1.16	1.24
1	Cx	12	ILE	C-O	-5.99	1.17	1.24
1	Nv	9	LEU	C-O	-5.99	1.16	1.24
1	Nw	9	LEU	C-O	-5.99	1.16	1.24
1	Km	77	ALA	C-O	-5.99	1.16	1.23
1	CB	12	ILE	C-O	-5.99	1.17	1.24
1	C2	12	ILE	C-O	-5.99	1.17	1.24
1	CQ	12	ILE	C-O	-5.99	1.17	1.24
1	Cf	12	ILE	C-O	-5.99	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AZ	11	MET	C-O	-5.99	1.16	1.24
1	Cu	12	ILE	C-O	-5.99	1.17	1.24
1	BD	46	VAL	C-O	-5.99	1.17	1.24
1	D2	79	HIS	C-O	-5.99	1.16	1.23
1	D8	79	HIS	C-O	-5.99	1.16	1.23
1	DN	79	HIS	C-O	-5.99	1.16	1.23
1	Bh	46	VAL	C-O	-5.99	1.17	1.24
1	DW	79	HIS	C-O	-5.99	1.16	1.23
1	Bw	46	VAL	C-O	-5.99	1.17	1.24
1	Dl	79	HIS	C-O	-5.99	1.16	1.23
1	A3	11	MET	C-O	-5.99	1.16	1.24
1	B4	46	VAL	C-O	-5.99	1.17	1.24
1	C1	12	ILE	C-O	-5.99	1.17	1.24
1	B7	46	VAL	C-O	-5.99	1.17	1.24
1	KP	77	ALA	C-O	-5.99	1.16	1.23
1	NT	9	LEU	C-O	-5.99	1.16	1.24
1	BJ	46	VAL	C-O	-5.99	1.17	1.24
1	BM	46	VAL	C-O	-5.99	1.17	1.24
1	Kh	77	ALA	C-O	-5.99	1.16	1.23
1	BY	46	VAL	C-O	-5.99	1.17	1.24
1	Bb	46	VAL	C-O	-5.99	1.17	1.24
1	Gd	83	ARG	C-O	-5.99	1.17	1.24
1	Jb	10	GLY	CA-C	-5.99	1.48	1.52
1	Kw	77	ALA	C-O	-5.99	1.16	1.23
1	Ak	19	PRO	C-O	-5.99	1.16	1.24
1	Bn	46	VAL	C-O	-5.99	1.17	1.24
1	Bq	46	VAL	C-O	-5.99	1.17	1.24
1	Gs	83	ARG	C-O	-5.99	1.17	1.24
1	B1	46	VAL	C-O	-5.99	1.17	1.24
1	C3	12	ILE	C-O	-5.99	1.17	1.24
1	B9	46	VAL	C-O	-5.99	1.17	1.24
1	BG	46	VAL	C-O	-5.99	1.17	1.24
1	CI	12	ILE	C-O	-5.99	1.17	1.24
1	BO	46	VAL	C-O	-5.99	1.17	1.24
1	Bd	46	VAL	C-O	-5.99	1.17	1.24
1	Cv	12	ILE	C-O	-5.99	1.17	1.24
1	Nx	9	LEU	C-O	-5.99	1.16	1.24
1	Cm	12	ILE	C-O	-5.99	1.17	1.24
1	GE	83	ARG	C-O	-5.99	1.17	1.24
1	KA	77	ALA	C-O	-5.99	1.16	1.23
1	KD	77	ALA	C-O	-5.99	1.16	1.23
1	G3	83	ARG	C-O	-5.99	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	GT	83	ARG	C-O	-5.99	1.17	1.24
1	KS	77	ALA	C-O	-5.99	1.16	1.23
1	AG	11	MET	C-O	-5.99	1.16	1.24
1	GI	83	ARG	C-O	-5.99	1.17	1.24
1	GN	83	ARG	C-O	-5.99	1.17	1.24
1	BU	20	ALA	C-O	-5.99	1.17	1.24
1	Ak	11	MET	C-O	-5.99	1.16	1.24
1	Gm	83	ARG	C-O	-5.99	1.17	1.24
1	Bj	20	ALA	C-O	-5.99	1.17	1.24
1	Kh	24	ALA	C-O	-5.98	1.17	1.24
1	Kc	47	THR	C-O	-5.98	1.16	1.24
1	BB	46	VAL	C-O	-5.98	1.17	1.24
1	KD	47	THR	C-O	-5.98	1.16	1.24
1	KS	47	THR	C-O	-5.98	1.16	1.24
1	KY	47	THR	C-O	-5.98	1.16	1.24
1	Kb	47	THR	C-O	-5.98	1.16	1.24
1	Kn	47	THR	C-O	-5.98	1.16	1.24
1	Dp	79	HIS	C-O	-5.98	1.16	1.23
1	E0	46	VAL	C-O	-5.98	1.17	1.24
1	K9	77	ALA	C-O	-5.98	1.16	1.23
1	KO	77	ALA	C-O	-5.98	1.16	1.23
1	Kg	47	THR	C-O	-5.98	1.16	1.24
1	EU	46	VAL	C-O	-5.98	1.17	1.24
1	Kd	77	ALA	C-O	-5.98	1.16	1.23
1	Kv	47	THR	C-O	-5.98	1.16	1.24
1	Ks	77	ALA	C-O	-5.98	1.16	1.23
1	MB	49	LEU	C-O	-5.98	1.17	1.24
1	Mf	49	LEU	C-O	-5.98	1.17	1.24
1	AY	11	MET	C-O	-5.98	1.16	1.24
1	Aa	11	MET	C-O	-5.98	1.16	1.24
1	Mu	49	LEU	C-O	-5.98	1.17	1.24
1	Ap	11	MET	C-O	-5.98	1.16	1.24
1	Hp	53	GLU	C-O	-5.98	1.15	1.23
1	C7	12	ILE	C-O	-5.98	1.17	1.24
1	MQ	49	LEU	C-O	-5.98	1.17	1.24
1	BX	20	ALA	C-O	-5.98	1.17	1.24
1	Dc	79	HIS	C-O	-5.98	1.16	1.23
1	Dr	79	HIS	C-O	-5.98	1.16	1.23
1	DS	56	ALA	N-CA	-5.98	1.38	1.46
1	EA	46	VAL	C-O	-5.97	1.17	1.24
1	GC	83	ARG	C-O	-5.97	1.17	1.24
1	K3	47	THR	C-O	-5.97	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	EP	46	VAL	C-O	-5.97	1.17	1.24
1	GR	83	ARG	C-O	-5.97	1.17	1.24
1	BF	46	VAL	C-O	-5.97	1.17	1.24
1	DZ	79	HIS	C-O	-5.97	1.16	1.23
1	Ec	46	VAL	C-O	-5.97	1.17	1.24
1	Cw	12	ILE	C-O	-5.97	1.17	1.24
1	An	11	MET	C-O	-5.97	1.16	1.24
1	Do	79	HIS	C-O	-5.97	1.16	1.23
1	Gr	83	ARG	C-O	-5.97	1.17	1.24
1	KI	47	THR	C-O	-5.97	1.16	1.24
1	AA	11	MET	C-O	-5.97	1.16	1.24
1	NE	9	LEU	C-O	-5.97	1.16	1.24
1	G8	83	ARG	C-O	-5.97	1.17	1.24
1	K8	47	THR	C-O	-5.97	1.16	1.24
1	Ae	11	MET	C-O	-5.97	1.16	1.24
1	Ee	46	VAL	C-O	-5.97	1.17	1.24
1	Gi	83	ARG	C-O	-5.97	1.17	1.24
1	Ke	47	THR	C-O	-5.97	1.16	1.24
1	Gc	83	ARG	C-O	-5.97	1.17	1.24
1	At	11	MET	C-O	-5.97	1.16	1.24
1	Gx	83	ARG	C-O	-5.97	1.17	1.24
1	As	11	MET	C-O	-5.97	1.16	1.24
1	Kr	47	THR	C-O	-5.97	1.16	1.24
1	Kg	77	ALA	C-O	-5.97	1.16	1.23
1	Ka	77	ALA	C-O	-5.97	1.16	1.23
1	Nb	9	LEU	C-O	-5.97	1.16	1.24
1	Nq	9	LEU	C-O	-5.97	1.16	1.24
1	CA	12	ILE	C-O	-5.97	1.17	1.24
1	B5	46	VAL	C-O	-5.97	1.17	1.24
1	J7	10	GLY	CA-C	-5.97	1.48	1.52
1	K6	77	ALA	C-O	-5.97	1.16	1.23
1	CP	12	ILE	C-O	-5.97	1.17	1.24
1	JM	10	GLY	CA-C	-5.97	1.48	1.52
1	KL	77	ALA	C-O	-5.97	1.16	1.23
1	Bi	46	VAL	C-O	-5.97	1.17	1.24
1	Ce	12	ILE	C-O	-5.97	1.17	1.24
1	Kp	77	ALA	C-O	-5.97	1.16	1.23
1	KE	77	ALA	C-O	-5.97	1.16	1.23
1	Kx	77	ALA	C-O	-5.97	1.16	1.23
1	Ko	77	ALA	C-O	-5.97	1.16	1.23
1	AB	11	MET	C-O	-5.97	1.16	1.24
1	A8	11	MET	C-O	-5.97	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B8	46	VAL	C-O	-5.97	1.17	1.24
1	AQ	11	MET	C-O	-5.97	1.16	1.24
1	EK	46	VAL	C-O	-5.97	1.17	1.24
1	AN	11	MET	C-O	-5.97	1.16	1.24
1	Af	11	MET	C-O	-5.97	1.16	1.24
1	Ac	11	MET	C-O	-5.97	1.16	1.24
1	Bc	46	VAL	C-O	-5.97	1.17	1.24
1	KU	77	ALA	C-O	-5.97	1.16	1.23
1	Au	11	MET	C-O	-5.97	1.16	1.24
1	Kj	77	ALA	C-O	-5.97	1.16	1.23
1	Di	79	HIS	C-O	-5.96	1.16	1.23
1	Dd	79	HIS	C-O	-5.96	1.16	1.23
1	Dx	79	HIS	C-O	-5.96	1.16	1.23
1	A6	11	MET	C-O	-5.96	1.16	1.24
1	B6	46	VAL	C-O	-5.96	1.17	1.24
1	C8	12	ILE	C-O	-5.96	1.17	1.24
1	AQ	19	PRO	C-O	-5.96	1.16	1.24
1	CK	12	ILE	C-O	-5.96	1.17	1.24
1	DG	79	HIS	C-O	-5.96	1.16	1.23
1	AL	11	MET	C-O	-5.96	1.16	1.24
1	CN	12	ILE	C-O	-5.96	1.17	1.24
1	Cc	12	ILE	C-O	-5.96	1.17	1.24
1	Dk	79	HIS	C-O	-5.96	1.16	1.23
1	Bs	46	VAL	C-O	-5.96	1.17	1.24
1	Cr	12	ILE	C-O	-5.96	1.17	1.24
1	BA	20	ALA	C-O	-5.96	1.17	1.24
1	A0	11	MET	C-O	-5.96	1.16	1.24
1	AF	11	MET	C-O	-5.96	1.16	1.24
1	AU	11	MET	C-O	-5.96	1.16	1.24
1	Al	11	MET	C-O	-5.96	1.16	1.24
1	Aj	11	MET	C-O	-5.96	1.16	1.24
1	G4	83	ARG	C-O	-5.96	1.17	1.24
1	N7	9	LEU	C-O	-5.96	1.16	1.24
1	AP	11	MET	C-O	-5.96	1.16	1.24
1	GJ	83	ARG	C-O	-5.96	1.17	1.24
1	KN	47	THR	C-O	-5.96	1.16	1.24
1	Ki	47	THR	C-O	-5.96	1.16	1.24
1	GY	83	ARG	C-O	-5.96	1.17	1.24
1	Kx	47	THR	C-O	-5.96	1.16	1.24
1	Gn	83	ARG	C-O	-5.96	1.17	1.24
1	BN	20	ALA	C-O	-5.96	1.17	1.24
1	BZ	20	ALA	C-O	-5.96	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Jx	19	PRO	C-O	-5.96	1.16	1.24
1	Ni	9	LEU	C-O	-5.96	1.16	1.24
1	BE	46	VAL	C-O	-5.96	1.17	1.24
1	BC	20	ALA	C-O	-5.95	1.17	1.24
1	A5	11	MET	C-O	-5.95	1.16	1.24
1	B2	46	VAL	C-O	-5.95	1.17	1.24
1	B3	20	ALA	C-O	-5.95	1.17	1.24
1	BR	20	ALA	C-O	-5.95	1.17	1.24
1	AK	11	MET	C-O	-5.95	1.16	1.24
1	Jc	10	GLY	CA-C	-5.95	1.48	1.52
1	HC	34	ARG	C-O	-5.95	1.17	1.24
1	K4	47	THR	C-O	-5.95	1.16	1.24
1	K7	47	THR	C-O	-5.95	1.16	1.24
1	KJ	47	THR	C-O	-5.95	1.16	1.24
1	KM	47	THR	C-O	-5.95	1.16	1.24
1	AV	19	PRO	C-O	-5.95	1.16	1.24
1	JD	10	GLY	CA-C	-5.95	1.48	1.52
1	J4	10	GLY	CA-C	-5.95	1.48	1.52
1	BI	46	VAL	C-O	-5.95	1.17	1.24
1	LK	50	VAL	C-O	-5.95	1.17	1.24
1	Jg	10	GLY	CA-C	-5.95	1.48	1.52
1	Lo	50	VAL	C-O	-5.95	1.17	1.24
1	Lj	50	VAL	C-O	-5.95	1.17	1.24
1	KB	47	THR	C-O	-5.95	1.16	1.24
1	KE	47	THR	C-O	-5.95	1.16	1.24
1	KQ	47	THR	C-O	-5.95	1.16	1.24
1	KT	47	THR	C-O	-5.95	1.16	1.24
1	Kf	47	THR	C-O	-5.95	1.16	1.24
1	KV	47	THR	C-O	-5.95	1.16	1.24
1	KY	77	ALA	C-O	-5.95	1.16	1.23
1	BU	46	VAL	C-O	-5.95	1.17	1.24
1	Ku	47	THR	C-O	-5.95	1.16	1.24
1	Kk	47	THR	C-O	-5.95	1.16	1.24
1	Kn	77	ALA	C-O	-5.95	1.16	1.23
1	Aq	19	PRO	C-O	-5.95	1.16	1.24
1	H3	34	ARG	C-O	-5.95	1.17	1.24
1	AI	11	MET	C-O	-5.95	1.16	1.24
1	Am	11	MET	C-O	-5.95	1.16	1.24
1	A1	19	PRO	C-O	-5.95	1.16	1.24
1	G9	83	ARG	C-O	-5.95	1.17	1.24
1	M7	49	LEU	C-O	-5.95	1.17	1.24
1	MM	49	LEU	C-O	-5.95	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ad	19	PRO	C-O	-5.95	1.16	1.24
1	Mb	49	LEU	C-O	-5.95	1.17	1.24
1	Aj	19	PRO	C-O	-5.95	1.16	1.24
1	HR	34	ARG	C-O	-5.94	1.17	1.24
1	KL	47	THR	C-O	-5.94	1.16	1.24
1	Hg	34	ARG	C-O	-5.94	1.17	1.24
1	Ke	77	ALA	C-O	-5.94	1.16	1.23
1	Kt	77	ALA	C-O	-5.94	1.16	1.23
1	LL	50	VAL	C-O	-5.94	1.17	1.24
1	He	34	ARG	C-O	-5.94	1.17	1.24
1	Bb	20	ALA	C-O	-5.94	1.17	1.24
1	Lv	50	VAL	C-O	-5.94	1.17	1.24
1	Cj	12	ILE	C-O	-5.94	1.17	1.24
1	JC	10	GLY	CA-C	-5.94	1.48	1.52
1	AE	11	MET	C-O	-5.94	1.16	1.24
1	JB	10	GLY	CA-C	-5.94	1.48	1.52
1	AT	11	MET	C-O	-5.94	1.16	1.24
1	JQ	10	GLY	CA-C	-5.94	1.48	1.52
1	Ai	11	MET	C-O	-5.94	1.16	1.24
1	KW	47	THR	C-O	-5.94	1.16	1.24
1	LU	50	VAL	C-O	-5.94	1.17	1.24
1	Ht	34	ARG	C-O	-5.94	1.17	1.24
1	Bo	46	VAL	C-O	-5.94	1.17	1.24
1	Bq	20	ALA	C-O	-5.94	1.17	1.24
1	Ja	19	PRO	C-O	-5.94	1.16	1.24
1	Jp	19	PRO	C-O	-5.94	1.16	1.24
1	AC	11	MET	C-O	-5.93	1.16	1.24
1	K9	47	THR	C-O	-5.93	1.16	1.24
1	AR	11	MET	C-O	-5.93	1.16	1.24
1	Ag	11	MET	C-O	-5.93	1.16	1.24
1	Bi	20	ALA	C-O	-5.93	1.17	1.24
1	Av	11	MET	C-O	-5.93	1.16	1.24
1	Bv	20	ALA	C-O	-5.93	1.17	1.24
1	J8	10	GLY	CA-C	-5.93	1.48	1.52
1	DT	52	GLY	C-O	-5.93	1.17	1.23
1	AH	19	PRO	C-O	-5.93	1.16	1.24
1	JN	10	GLY	CA-C	-5.93	1.48	1.52
1	AV	11	MET	C-O	-5.93	1.16	1.24
1	Jt	19	PRO	C-O	-5.93	1.16	1.24
1	AO	19	PRO	C-O	-5.93	1.16	1.24
1	BL	46	VAL	C-O	-5.93	1.17	1.24
1	K1	47	THR	C-O	-5.93	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Av	19	PRO	C-O	-5.93	1.16	1.24
1	Ab	19	PRO	C-O	-5.93	1.16	1.24
1	A9	19	PRO	C-O	-5.92	1.16	1.24
1	B7	20	ALA	C-O	-5.92	1.17	1.24
1	BM	20	ALA	C-O	-5.92	1.17	1.24
1	Kw	24	ALA	C-O	-5.92	1.17	1.24
1	Kv	77	ALA	C-O	-5.92	1.16	1.23
1	KA	47	THR	C-O	-5.92	1.16	1.24
1	A1	11	MET	C-O	-5.92	1.17	1.24
1	BF	20	ALA	C-O	-5.92	1.17	1.24
1	BN	46	VAL	C-O	-5.92	1.18	1.24
1	AB	19	PRO	C-O	-5.92	1.16	1.24
1	B3	46	VAL	C-O	-5.92	1.18	1.24
1	K2	47	THR	C-O	-5.92	1.16	1.24
1	KH	47	THR	C-O	-5.92	1.16	1.24
1	Al	19	PRO	C-O	-5.92	1.16	1.24
1	Mq	49	LEU	C-O	-5.92	1.17	1.24
1	KO	47	THR	C-O	-5.92	1.16	1.24
1	Cg	12	ILE	C-O	-5.92	1.17	1.24
1	Ks	47	THR	C-O	-5.92	1.16	1.24
1	AC	19	PRO	C-O	-5.92	1.16	1.24
1	BC	46	VAL	C-O	-5.92	1.18	1.24
1	JD	19	PRO	C-O	-5.92	1.16	1.24
1	J2	10	GLY	CA-C	-5.92	1.48	1.52
1	AR	19	PRO	C-O	-5.92	1.16	1.24
1	BR	46	VAL	C-O	-5.92	1.18	1.24
1	JS	19	PRO	C-O	-5.92	1.16	1.24
1	Ag	19	PRO	C-O	-5.92	1.16	1.24
1	Jh	19	PRO	C-O	-5.92	1.16	1.24
1	Hv	34	ARG	C-O	-5.92	1.17	1.24
1	A7	19	PRO	C-O	-5.91	1.16	1.24
1	AM	19	PRO	C-O	-5.91	1.16	1.24
1	Do	52	GLY	C-O	-5.91	1.17	1.23
1	J8	19	PRO	C-O	-5.91	1.16	1.24
1	K6	47	THR	C-O	-5.91	1.16	1.24
1	Ka	47	THR	C-O	-5.91	1.16	1.24
1	B1	20	ALA	C-O	-5.91	1.17	1.24
1	A0	19	PRO	C-O	-5.91	1.16	1.24
1	BT	46	VAL	C-O	-5.91	1.18	1.24
1	BG	20	ALA	C-O	-5.91	1.17	1.24
1	BV	20	ALA	C-O	-5.91	1.17	1.24
1	AU	19	PRO	C-O	-5.91	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hc	34	ARG	C-O	-5.91	1.17	1.24
1	Dt	52	GLY	C-O	-5.91	1.17	1.23
1	Bk	20	ALA	C-O	-5.91	1.17	1.24
1	Hr	34	ARG	C-O	-5.91	1.17	1.24
1	J7	19	PRO	C-O	-5.91	1.16	1.24
1	JM	19	PRO	C-O	-5.91	1.16	1.24
3	YZ	801	SER	N-CA	-5.91	1.38	1.45
1	Jb	19	PRO	C-O	-5.91	1.16	1.24
1	Jq	19	PRO	C-O	-5.91	1.16	1.24
1	L0	50	VAL	C-O	-5.91	1.17	1.24
1	LF	50	VAL	C-O	-5.91	1.17	1.24
1	DU	53	GLU	C-O	-5.91	1.16	1.23
1	CR	12	ILE	C-O	-5.91	1.17	1.24
1	BI	20	ALA	C-O	-5.91	1.17	1.24
1	AX	11	MET	C-O	-5.91	1.17	1.24
1	Ds	79	HIS	C-O	-5.91	1.16	1.23
1	BE	20	ALA	C-O	-5.90	1.17	1.24
1	B5	20	ALA	C-O	-5.90	1.17	1.24
1	B8	20	ALA	C-O	-5.90	1.17	1.24
1	H8	34	ARG	C-O	-5.90	1.17	1.24
1	BT	20	ALA	C-O	-5.90	1.17	1.24
1	KP	47	THR	C-O	-5.90	1.16	1.24
1	BK	20	ALA	C-O	-5.90	1.17	1.24
1	HI	34	ARG	C-O	-5.90	1.17	1.24
1	HN	34	ARG	C-O	-5.90	1.17	1.24
1	Ai	19	PRO	C-O	-5.90	1.16	1.24
1	JW	10	GLY	CA-C	-5.90	1.48	1.52
1	Aa	19	PRO	C-O	-5.90	1.16	1.24
1	Ax	19	PRO	C-O	-5.90	1.16	1.24
1	Bx	20	ALA	C-O	-5.90	1.17	1.24
1	Bo	20	ALA	C-O	-5.90	1.17	1.24
1	Jl	10	GLY	CA-C	-5.90	1.48	1.52
1	Ap	19	PRO	C-O	-5.90	1.16	1.24
1	A3	19	PRO	C-O	-5.90	1.16	1.24
1	A6	19	PRO	C-O	-5.90	1.16	1.24
1	AL	19	PRO	C-O	-5.90	1.16	1.24
1	AX	19	PRO	C-O	-5.90	1.16	1.24
1	Am	19	PRO	C-O	-5.90	1.16	1.24
1	JE	19	PRO	C-O	-5.90	1.16	1.24
1	JT	19	PRO	C-O	-5.90	1.16	1.24
1	Ji	19	PRO	C-O	-5.90	1.16	1.24
1	BP	20	ALA	C-O	-5.90	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	LZ	50	VAL	C-O	-5.90	1.17	1.24
1	Kd	47	THR	C-O	-5.90	1.16	1.24
1	Bj	46	VAL	C-O	-5.90	1.18	1.24
1	Bm	20	ALA	C-O	-5.90	1.17	1.24
1	JB	19	PRO	C-O	-5.89	1.16	1.24
1	JQ	19	PRO	C-O	-5.89	1.16	1.24
1	CM	12	ILE	C-O	-5.89	1.17	1.24
1	A4	19	PRO	C-O	-5.89	1.16	1.24
1	AJ	19	PRO	C-O	-5.89	1.16	1.24
1	AY	19	PRO	C-O	-5.89	1.16	1.24
1	An	19	PRO	C-O	-5.89	1.16	1.24
1	Ar	11	MET	C-O	-5.89	1.17	1.24
1	A5	19	PRO	C-O	-5.89	1.16	1.24
1	A8	19	PRO	C-O	-5.89	1.16	1.24
1	AZ	19	PRO	C-O	-5.89	1.16	1.24
1	Ao	19	PRO	C-O	-5.89	1.16	1.24
1	AA	19	PRO	C-O	-5.89	1.16	1.24
1	BB	20	ALA	C-O	-5.89	1.17	1.24
1	LB	50	VAL	C-O	-5.89	1.17	1.24
1	BQ	20	ALA	C-O	-5.89	1.17	1.24
1	LQ	50	VAL	C-O	-5.89	1.17	1.24
1	AG	19	PRO	C-O	-5.89	1.16	1.24
1	La	50	VAL	C-O	-5.89	1.17	1.24
1	Hw	34	ARG	C-O	-5.89	1.17	1.24
1	As	19	PRO	C-O	-5.89	1.16	1.24
1	Lp	50	VAL	C-O	-5.89	1.17	1.24
1	Br	46	VAL	C-O	-5.89	1.18	1.24
1	AI	19	PRO	C-O	-5.89	1.16	1.24
1	KU	47	THR	C-O	-5.89	1.16	1.24
1	KD	24	ALA	C-O	-5.88	1.17	1.24
1	Af	19	PRO	C-O	-5.88	1.16	1.24
1	JX	10	GLY	CA-C	-5.88	1.48	1.52
1	J3	10	GLY	CA-C	-5.88	1.48	1.52
1	JI	10	GLY	CA-C	-5.88	1.48	1.52
1	Jm	10	GLY	CA-C	-5.88	1.48	1.52
1	JR	10	GLY	CA-C	-5.88	1.48	1.52
3	Yc	801	SER	N-CA	-5.88	1.38	1.45
3	Yr	801	SER	N-CA	-5.88	1.38	1.45
1	LE	50	VAL	C-O	-5.88	1.17	1.24
1	GO	83	ARG	C-O	-5.88	1.17	1.24
1	De	52	GLY	C-O	-5.88	1.17	1.23
1	BV	46	VAL	C-O	-5.88	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	KU	24	ALA	C-O	-5.88	1.17	1.24
1	Bk	46	VAL	C-O	-5.88	1.18	1.24
3	Yq	801	SER	N-CA	-5.88	1.38	1.45
1	AT	19	PRO	C-O	-5.88	1.16	1.24
3	YX	801	SER	N-CA	-5.88	1.38	1.45
1	Jw	19	PRO	C-O	-5.88	1.16	1.24
1	K5	47	THR	C-O	-5.88	1.16	1.24
1	LP	50	VAL	C-O	-5.88	1.17	1.24
1	KK	47	THR	C-O	-5.88	1.16	1.24
1	Ko	47	THR	C-O	-5.88	1.16	1.24
1	Lf	50	VAL	C-O	-5.88	1.17	1.24
1	AW	19	PRO	C-O	-5.88	1.16	1.24
1	KZ	47	THR	C-O	-5.88	1.16	1.24
1	Aw	60	ALA	C-O	-5.88	1.17	1.24
1	Lu	50	VAL	C-O	-5.88	1.17	1.24
1	L5	50	VAL	C-O	-5.88	1.17	1.24
1	LA	50	VAL	C-O	-5.87	1.17	1.24
1	L1	50	VAL	C-O	-5.87	1.17	1.24
1	JS	10	GLY	CA-C	-5.87	1.48	1.52
1	Le	50	VAL	C-O	-5.87	1.17	1.24
1	Jw	10	GLY	CA-C	-5.87	1.48	1.52
1	Hl	34	ARG	C-O	-5.87	1.17	1.24
1	Kp	47	THR	C-O	-5.87	1.17	1.24
1	AS	19	PRO	C-O	-5.87	1.16	1.24
1	Di	52	GLY	C-O	-5.87	1.17	1.23
1	Au	19	PRO	C-O	-5.87	1.16	1.24
1	Dx	52	GLY	C-O	-5.87	1.17	1.23
1	Jn	19	PRO	C-O	-5.87	1.16	1.24
3	Yo	801	SER	N-CA	-5.87	1.39	1.45
1	J6	10	GLY	CA-C	-5.87	1.48	1.52
1	JA	19	PRO	C-O	-5.87	1.16	1.24
1	JP	19	PRO	C-O	-5.87	1.16	1.24
1	Bg	46	VAL	C-O	-5.87	1.18	1.24
1	Je	19	PRO	C-O	-5.87	1.16	1.24
1	Bv	46	VAL	C-O	-5.87	1.18	1.24
1	AE	19	PRO	C-O	-5.87	1.16	1.24
1	LG	50	VAL	C-O	-5.87	1.17	1.24
1	LV	50	VAL	C-O	-5.87	1.17	1.24
1	Ac	9	LEU	C-O	-5.87	1.16	1.24
1	Lt	50	VAL	C-O	-5.87	1.17	1.24
1	Ar	9	LEU	C-O	-5.87	1.16	1.24
1	JW	19	PRO	C-O	-5.87	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Jl	19	PRO	C-O	-5.87	1.16	1.24
1	Kl	47	THR	C-O	-5.87	1.17	1.24
1	JU	19	PRO	C-O	-5.87	1.16	1.24
1	JF	19	PRO	C-O	-5.87	1.16	1.24
1	J2	19	PRO	C-O	-5.87	1.16	1.24
1	JH	19	PRO	C-O	-5.87	1.16	1.24
1	KG	47	THR	C-O	-5.87	1.17	1.24
1	AF	19	PRO	C-O	-5.87	1.16	1.24
1	HM	34	ARG	C-O	-5.87	1.17	1.24
1	Jf	19	PRO	C-O	-5.87	1.16	1.24
1	Ax	11	MET	C-O	-5.87	1.17	1.24
1	Lk	50	VAL	C-O	-5.87	1.17	1.24
1	L6	50	VAL	C-O	-5.86	1.17	1.24
1	Lg	50	VAL	C-O	-5.86	1.17	1.24
1	JL	19	PRO	C-O	-5.86	1.16	1.24
1	Bp	20	ALA	C-O	-5.86	1.17	1.24
1	J6	19	PRO	C-O	-5.86	1.16	1.24
1	CC	12	ILE	C-O	-5.86	1.17	1.24
1	HX	34	ARG	C-O	-5.86	1.17	1.24
1	Hm	34	ARG	C-O	-5.86	1.17	1.24
1	AD	19	PRO	C-O	-5.86	1.16	1.24
1	B4	20	ALA	C-O	-5.86	1.17	1.24
3	Y7	801	SER	N-CA	-5.86	1.39	1.45
1	BJ	20	ALA	C-O	-5.86	1.17	1.24
1	JH	10	GLY	CA-C	-5.86	1.48	1.52
3	YM	801	SER	N-CA	-5.86	1.39	1.45
1	HW	34	ARG	C-O	-5.86	1.17	1.24
3	Yb	801	SER	N-CA	-5.86	1.39	1.45
1	Aw	19	PRO	C-O	-5.86	1.16	1.24
1	Am	9	LEU	C-O	-5.86	1.16	1.24
1	AN	19	PRO	C-O	-5.86	1.16	1.24
1	AO	60	ALA	C-O	-5.86	1.17	1.24
1	J5	19	PRO	C-O	-5.85	1.16	1.24
1	D0	52	GLY	C-O	-5.85	1.18	1.23
1	JK	19	PRO	C-O	-5.85	1.16	1.24
1	JZ	19	PRO	C-O	-5.85	1.16	1.24
1	Dj	52	GLY	C-O	-5.85	1.18	1.23
1	DU	52	GLY	C-O	-5.85	1.18	1.23
1	J1	19	PRO	C-O	-5.85	1.16	1.24
1	LT	50	VAL	C-O	-5.85	1.17	1.24
1	JG	19	PRO	C-O	-5.85	1.16	1.24
1	Li	50	VAL	C-O	-5.85	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	JV	19	PRO	C-O	-5.85	1.16	1.24
1	Lx	50	VAL	C-O	-5.85	1.17	1.24
1	Es	37	GLY	C-O	-5.85	1.18	1.24
1	B2	20	ALA	C-O	-5.85	1.17	1.24
1	BH	20	ALA	C-O	-5.85	1.17	1.24
1	JN	19	PRO	C-O	-5.85	1.16	1.24
1	Jo	19	PRO	C-O	-5.85	1.16	1.24
1	H1	34	ARG	C-O	-5.85	1.17	1.24
3	Y5	801	SER	N-CA	-5.85	1.39	1.45
1	HG	34	ARG	C-O	-5.85	1.17	1.24
3	YN	801	SER	N-CA	-5.85	1.39	1.45
1	HV	34	ARG	C-O	-5.85	1.17	1.24
1	Hk	34	ARG	C-O	-5.85	1.17	1.24
1	Lr	50	VAL	C-O	-5.85	1.17	1.24
1	JA	10	GLY	CA-C	-5.85	1.48	1.52
3	YD	801	SER	N-CA	-5.85	1.39	1.45
1	J1	10	GLY	CA-C	-5.85	1.48	1.52
1	JP	10	GLY	CA-C	-5.85	1.48	1.52
1	JG	10	GLY	CA-C	-5.85	1.48	1.52
1	Je	10	GLY	CA-C	-5.85	1.48	1.52
1	Hu	34	ARG	C-O	-5.85	1.17	1.24
1	Ln	50	VAL	C-O	-5.85	1.17	1.24
1	Kj	24	ALA	C-O	-5.85	1.17	1.24
1	L2	50	VAL	C-O	-5.85	1.17	1.24
1	LH	50	VAL	C-O	-5.85	1.17	1.24
1	Ae	19	PRO	C-O	-5.85	1.16	1.24
1	JV	10	GLY	CA-C	-5.85	1.48	1.52
1	At	19	PRO	C-O	-5.85	1.16	1.24
1	Jk	10	GLY	CA-C	-5.85	1.48	1.52
1	BD	20	ALA	C-O	-5.84	1.17	1.24
1	BS	20	ALA	C-O	-5.84	1.17	1.24
1	Bf	20	ALA	C-O	-5.84	1.17	1.24
1	BW	20	ALA	C-O	-5.84	1.17	1.24
1	Bu	20	ALA	C-O	-5.84	1.17	1.24
1	Bn	20	ALA	C-O	-5.84	1.17	1.24
1	JI	19	PRO	C-O	-5.84	1.16	1.24
1	KS	24	ALA	C-O	-5.84	1.17	1.24
1	KJ	24	ALA	C-O	-5.84	1.17	1.24
1	Kn	24	ALA	C-O	-5.84	1.17	1.24
1	J4	19	PRO	C-O	-5.84	1.16	1.24
1	B6	20	ALA	C-O	-5.84	1.17	1.24
1	LR	50	VAL	C-O	-5.84	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	JJ	19	PRO	C-O	-5.84	1.16	1.24
1	BL	20	ALA	C-O	-5.84	1.17	1.24
1	LX	50	VAL	C-O	-5.84	1.17	1.24
1	Ba	20	ALA	C-O	-5.84	1.17	1.24
1	JY	19	PRO	C-O	-5.84	1.16	1.24
1	L3	50	VAL	C-O	-5.84	1.17	1.24
1	DE	52	GLY	C-O	-5.84	1.18	1.23
1	Ks	24	ALA	C-O	-5.84	1.17	1.24
1	H6	34	ARG	C-O	-5.84	1.17	1.24
1	K0	47	THR	C-O	-5.84	1.17	1.24
1	HL	34	ARG	C-O	-5.84	1.17	1.24
1	Ah	19	PRO	C-O	-5.84	1.16	1.24
1	Ah	60	ALA	C-O	-5.84	1.17	1.24
1	JX	19	PRO	C-O	-5.84	1.16	1.24
1	Ab	60	ALA	C-O	-5.84	1.17	1.24
3	Ya	801	SER	N-CA	-5.84	1.39	1.45
1	Bt	20	ALA	C-O	-5.84	1.17	1.24
3	Yp	801	SER	N-CA	-5.84	1.39	1.45
1	J3	19	PRO	C-O	-5.84	1.16	1.24
1	Jm	19	PRO	C-O	-5.84	1.16	1.24
3	YB	801	SER	N-CA	-5.83	1.39	1.45
1	J0	19	PRO	C-O	-5.83	1.16	1.24
3	YQ	801	SER	N-CA	-5.83	1.39	1.45
3	Yf	801	SER	N-CA	-5.83	1.39	1.45
3	YE	801	SER	N-CA	-5.83	1.39	1.45
3	YT	801	SER	N-CA	-5.83	1.39	1.45
3	YW	801	SER	N-CA	-5.83	1.39	1.45
1	Ac	19	PRO	C-O	-5.83	1.16	1.24
3	YU	801	SER	N-CA	-5.83	1.39	1.45
3	Yl	801	SER	N-CA	-5.83	1.39	1.45
1	HB	34	ARG	C-O	-5.83	1.17	1.24
1	H2	34	ARG	C-O	-5.83	1.17	1.24
3	Y2	801	SER	N-CA	-5.83	1.39	1.45
1	K6	24	ALA	C-O	-5.83	1.17	1.24
1	HQ	34	ARG	C-O	-5.83	1.17	1.24
3	YP	801	SER	N-CA	-5.83	1.39	1.45
1	HH	34	ARG	C-O	-5.83	1.17	1.24
1	Hf	34	ARG	C-O	-5.83	1.17	1.24
1	BY	20	ALA	C-O	-5.83	1.17	1.24
1	Ha	34	ARG	C-O	-5.83	1.17	1.24
1	Ka	24	ALA	C-O	-5.83	1.17	1.24
3	Yu	801	SER	N-CA	-5.83	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Kp	24	ALA	C-O	-5.83	1.17	1.24
1	Jj	19	PRO	C-O	-5.83	1.16	1.24
1	HA	34	ARG	C-O	-5.83	1.17	1.24
1	A8	9	LEU	C-O	-5.83	1.16	1.24
1	HP	34	ARG	C-O	-5.83	1.17	1.24
1	AN	9	LEU	C-O	-5.83	1.16	1.24
1	Kf	24	ALA	C-O	-5.83	1.17	1.24
3	Ym	801	SER	N-CA	-5.83	1.39	1.45
3	Y0	801	SER	N-CA	-5.83	1.39	1.45
1	DP	52	GLY	C-O	-5.83	1.18	1.23
3	YK	801	SER	N-CA	-5.83	1.39	1.45
1	Ds	52	GLY	C-O	-5.83	1.18	1.23
1	Jp	10	GLY	CA-C	-5.83	1.48	1.52
1	L8	50	VAL	C-O	-5.83	1.17	1.24
1	Lb	50	VAL	C-O	-5.83	1.17	1.24
1	Kq	24	ALA	C-O	-5.83	1.17	1.24
1	Lq	50	VAL	C-O	-5.83	1.17	1.24
1	LM	50	VAL	C-O	-5.83	1.17	1.24
1	K9	24	ALA	C-O	-5.82	1.17	1.24
3	YH	801	SER	N-CA	-5.82	1.39	1.45
1	KO	24	ALA	C-O	-5.82	1.17	1.24
3	YF	801	SER	N-CA	-5.82	1.39	1.45
3	Yj	801	SER	N-CA	-5.82	1.39	1.45
1	AK	19	PRO	C-O	-5.82	1.16	1.24
1	DK	52	GLY	C-O	-5.82	1.18	1.23
1	Hh	34	ARG	C-O	-5.82	1.17	1.24
1	AX	9	LEU	C-O	-5.82	1.16	1.24
1	CZ	26	ALA	C-O	-5.82	1.17	1.24
1	Lc	50	VAL	C-O	-5.82	1.17	1.24
1	A2	19	PRO	C-O	-5.82	1.16	1.24
1	Ed	37	GLY	C-O	-5.82	1.18	1.24
1	Ad	9	LEU	C-O	-5.82	1.16	1.24
1	As	9	LEU	C-O	-5.82	1.16	1.24
3	Y4	801	SER	N-CA	-5.82	1.39	1.45
3	YS	801	SER	N-CA	-5.82	1.39	1.45
3	YJ	801	SER	N-CA	-5.82	1.39	1.45
1	JL	10	GLY	CA-C	-5.82	1.48	1.52
3	YC	801	SER	N-CA	-5.81	1.39	1.45
1	B0	20	ALA	C-O	-5.81	1.17	1.24
3	YR	801	SER	N-CA	-5.81	1.39	1.45
3	Yg	801	SER	N-CA	-5.81	1.39	1.45
1	Kk	24	ALA	C-O	-5.81	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	LC	50	VAL	C-O	-5.81	1.17	1.24
1	LI	50	VAL	C-O	-5.81	1.17	1.24
1	IA	9	LEU	C-O	-5.81	1.16	1.24
3	Y8	801	SER	N-CA	-5.81	1.39	1.45
1	AP	19	PRO	C-O	-5.81	1.16	1.24
1	Ie	9	LEU	C-O	-5.81	1.16	1.24
3	Yi	801	SER	N-CA	-5.81	1.39	1.45
3	Yx	801	SER	N-CA	-5.81	1.39	1.45
1	B9	20	ALA	C-O	-5.81	1.17	1.24
3	YI	801	SER	N-CA	-5.81	1.39	1.45
1	BO	20	ALA	C-O	-5.81	1.17	1.24
1	HY	34	ARG	C-O	-5.81	1.17	1.24
1	Hn	34	ARG	C-O	-5.81	1.17	1.24
3	Y3	801	SER	N-CA	-5.81	1.39	1.45
1	D8	52	GLY	C-O	-5.81	1.18	1.23
1	J9	19	PRO	C-O	-5.81	1.16	1.24
1	DN	52	GLY	C-O	-5.81	1.18	1.23
1	KL	24	ALA	C-O	-5.81	1.17	1.24
3	YV	801	SER	N-CA	-5.81	1.39	1.45
1	Ia	9	LEU	C-O	-5.81	1.16	1.24
1	Jd	19	PRO	C-O	-5.81	1.16	1.24
1	Jk	19	PRO	C-O	-5.81	1.16	1.24
3	Yk	801	SER	N-CA	-5.81	1.39	1.45
1	Ip	9	LEU	C-O	-5.81	1.16	1.24
1	Js	19	PRO	C-O	-5.81	1.16	1.24
1	Jg	19	PRO	C-O	-5.80	1.16	1.24
1	It	9	LEU	C-O	-5.80	1.16	1.24
1	Hp	34	ARG	C-O	-5.80	1.17	1.24
1	LW	50	VAL	C-O	-5.80	1.17	1.24
1	Ll	50	VAL	C-O	-5.80	1.17	1.24
1	D6	53	GLU	C-O	-5.80	1.16	1.23
1	HD	34	ARG	C-O	-5.80	1.17	1.24
1	HS	34	ARG	C-O	-5.80	1.17	1.24
1	Kd	24	ALA	C-O	-5.80	1.17	1.24
1	Kt	24	ALA	C-O	-5.80	1.17	1.24
1	LN	50	VAL	C-O	-5.80	1.17	1.24
1	IP	9	LEU	C-O	-5.80	1.16	1.24
1	Ar	19	PRO	C-O	-5.80	1.16	1.24
1	H9	34	ARG	C-O	-5.80	1.17	1.24
1	JR	19	PRO	C-O	-5.80	1.16	1.24
1	HO	34	ARG	C-O	-5.80	1.17	1.24
1	Ig	9	LEU	C-O	-5.80	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Dk	52	GLY	C-O	-5.80	1.18	1.23
1	Ju	19	PRO	C-O	-5.79	1.16	1.24
1	K1	24	ALA	C-O	-5.79	1.17	1.24
1	KQ	24	ALA	C-O	-5.79	1.17	1.24
1	KG	24	ALA	C-O	-5.79	1.17	1.24
1	H4	34	ARG	C-O	-5.79	1.17	1.24
1	I5	9	LEU	C-O	-5.79	1.16	1.24
1	K4	24	ALA	C-O	-5.79	1.17	1.24
1	A9	60	ALA	C-O	-5.79	1.17	1.24
1	HJ	34	ARG	C-O	-5.79	1.17	1.24
1	KY	24	ALA	C-O	-5.79	1.17	1.24
1	Jc	19	PRO	C-O	-5.79	1.16	1.24
1	Jr	19	PRO	C-O	-5.79	1.16	1.24
1	JU	79	HIS	CD2-NE2	-5.79	1.31	1.37
1	K0	24	ALA	C-O	-5.79	1.17	1.24
1	KF	24	ALA	C-O	-5.79	1.17	1.24
1	KA	24	ALA	C-O	-5.79	1.17	1.24
1	KP	24	ALA	C-O	-5.79	1.17	1.24
1	JC	19	PRO	C-O	-5.79	1.16	1.24
1	AA	60	ALA	C-O	-5.79	1.17	1.24
3	YA	801	SER	N-CA	-5.79	1.39	1.45
3	Ye	801	SER	N-CA	-5.79	1.39	1.45
3	Yt	801	SER	N-CA	-5.79	1.39	1.45
1	Kj	47	THR	C-O	-5.79	1.17	1.24
1	H7	34	ARG	C-O	-5.78	1.17	1.24
3	Yh	801	SER	N-CA	-5.78	1.39	1.45
3	YY	801	SER	N-CA	-5.78	1.39	1.45
1	Bd	20	ALA	C-O	-5.78	1.17	1.24
1	Hb	34	ARG	C-O	-5.78	1.17	1.24
3	Yw	801	SER	N-CA	-5.78	1.39	1.45
1	Bs	20	ALA	C-O	-5.78	1.17	1.24
1	Hq	34	ARG	C-O	-5.78	1.17	1.24
1	HE	34	ARG	C-O	-5.78	1.17	1.24
1	H5	34	ARG	C-O	-5.78	1.17	1.24
1	HT	34	ARG	C-O	-5.78	1.17	1.24
1	HK	34	ARG	C-O	-5.78	1.17	1.24
1	Hi	34	ARG	C-O	-5.78	1.17	1.24
1	Hx	34	ARG	C-O	-5.78	1.17	1.24
1	Ho	34	ARG	C-O	-5.78	1.17	1.24
1	L4	50	VAL	C-O	-5.78	1.18	1.24
1	L7	50	VAL	C-O	-5.78	1.18	1.24
1	LJ	50	VAL	C-O	-5.78	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AN	60	ALA	C-O	-5.78	1.17	1.24
1	DL	52	GLY	C-O	-5.78	1.18	1.23
1	LY	50	VAL	C-O	-5.78	1.18	1.24
1	Lw	50	VAL	C-O	-5.78	1.18	1.24
1	Cn	26	ALA	C-O	-5.78	1.17	1.24
1	K2	24	ALA	C-O	-5.78	1.17	1.24
1	Kc	24	ALA	C-O	-5.78	1.17	1.24
1	At	9	LEU	C-O	-5.78	1.16	1.24
1	CA	26	ALA	C-O	-5.78	1.17	1.24
1	J0	10	GLY	CA-C	-5.78	1.48	1.52
1	AH	60	ALA	C-O	-5.78	1.17	1.24
1	Ce	26	ALA	C-O	-5.78	1.17	1.24
1	DZ	52	GLY	C-O	-5.78	1.18	1.23
1	KV	24	ALA	C-O	-5.78	1.17	1.24
1	Jj	10	GLY	CA-C	-5.78	1.48	1.52
1	JU	10	GLY	CA-C	-5.78	1.48	1.52
1	JF	10	GLY	CA-C	-5.78	1.48	1.52
1	I6	9	LEU	C-O	-5.77	1.16	1.24
1	L9	50	VAL	C-O	-5.77	1.18	1.24
1	KF	47	THR	C-O	-5.77	1.17	1.24
1	LO	50	VAL	C-O	-5.77	1.18	1.24
1	IZ	9	LEU	C-O	-5.77	1.16	1.24
1	Ld	50	VAL	C-O	-5.77	1.18	1.24
1	Iv	9	LEU	C-O	-5.77	1.16	1.24
1	Io	9	LEU	C-O	-5.77	1.16	1.24
3	Y1	801	SER	N-CA	-5.77	1.39	1.45
1	D9	52	GLY	C-O	-5.77	1.18	1.23
1	DO	52	GLY	C-O	-5.77	1.18	1.23
1	Ke	24	ALA	C-O	-5.77	1.17	1.24
1	Aa	9	LEU	C-O	-5.77	1.16	1.24
3	Yn	801	SER	N-CA	-5.77	1.39	1.45
1	Ap	9	LEU	C-O	-5.77	1.16	1.24
1	Aq	60	ALA	C-O	-5.77	1.17	1.24
1	Dr	52	GLY	C-O	-5.77	1.18	1.23
1	Kr	24	ALA	C-O	-5.77	1.17	1.24
1	AC	9	LEU	C-O	-5.77	1.16	1.24
1	K5	24	ALA	C-O	-5.77	1.17	1.24
1	A9	9	LEU	C-O	-5.77	1.16	1.24
1	KK	24	ALA	C-O	-5.77	1.17	1.24
1	AM	74	GLY	C-O	-5.77	1.20	1.24
1	AO	9	LEU	C-O	-5.77	1.16	1.24
1	Cf	26	ALA	C-O	-5.77	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	KZ	24	ALA	C-O	-5.77	1.17	1.24
1	Bc	20	ALA	C-O	-5.77	1.17	1.24
1	Ku	24	ALA	C-O	-5.77	1.17	1.24
1	Ak	9	LEU	C-O	-5.77	1.16	1.24
1	Ls	50	VAL	C-O	-5.77	1.18	1.24
1	IE	9	LEU	C-O	-5.77	1.16	1.24
1	H0	34	ARG	C-O	-5.77	1.17	1.24
1	K7	24	ALA	C-O	-5.77	1.17	1.24
3	Y6	801	SER	N-CA	-5.77	1.39	1.45
1	IT	9	LEU	C-O	-5.77	1.16	1.24
1	HF	34	ARG	C-O	-5.77	1.17	1.24
3	YL	801	SER	N-CA	-5.77	1.39	1.45
1	Ii	9	LEU	C-O	-5.77	1.16	1.24
1	Kb	24	ALA	C-O	-5.77	1.17	1.24
1	Ix	9	LEU	C-O	-5.77	1.16	1.24
1	Hj	34	ARG	C-O	-5.77	1.17	1.24
1	D5	52	GLY	C-O	-5.76	1.18	1.23
1	J5	10	GLY	CA-C	-5.76	1.48	1.52
1	JK	10	GLY	CA-C	-5.76	1.48	1.52
1	Dc	52	GLY	C-O	-5.76	1.18	1.23
1	Ko	24	ALA	C-O	-5.76	1.17	1.24
1	JO	19	PRO	C-O	-5.76	1.16	1.24
1	C5	26	ALA	C-O	-5.76	1.17	1.24
1	K3	24	ALA	C-O	-5.76	1.17	1.24
1	CK	26	ALA	C-O	-5.76	1.17	1.24
1	AL	9	LEU	C-O	-5.76	1.16	1.24
1	EO	37	GLY	C-O	-5.76	1.18	1.24
1	KX	24	ALA	C-O	-5.76	1.17	1.24
1	Co	26	ALA	C-O	-5.76	1.17	1.24
1	KI	24	ALA	C-O	-5.76	1.17	1.24
1	CE	26	ALA	C-O	-5.76	1.17	1.24
1	KB	24	ALA	C-O	-5.76	1.17	1.24
1	A3	9	LEU	C-O	-5.76	1.16	1.24
1	CQ	26	ALA	C-O	-5.76	1.17	1.24
1	CT	26	ALA	C-O	-5.76	1.17	1.24
1	AI	9	LEU	C-O	-5.76	1.16	1.24
3	YO	801	SER	N-CA	-5.76	1.39	1.45
1	Ci	26	ALA	C-O	-5.76	1.17	1.24
3	Yd	801	SER	N-CA	-5.76	1.39	1.45
1	Cx	26	ALA	C-O	-5.76	1.17	1.24
1	Ap	60	ALA	C-O	-5.76	1.17	1.24
1	A5	74	GLY	C-O	-5.76	1.20	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A0	9	LEU	C-O	-5.76	1.16	1.24
1	K8	24	ALA	C-O	-5.76	1.17	1.24
1	AK	74	GLY	C-O	-5.76	1.20	1.24
1	AF	9	LEU	C-O	-5.76	1.16	1.24
1	AZ	74	GLY	C-O	-5.76	1.20	1.24
1	CV	83	ARG	C-O	-5.76	1.17	1.24
1	AU	9	LEU	C-O	-5.76	1.16	1.24
1	Jt	10	GLY	CA-C	-5.76	1.48	1.52
1	Ck	83	ARG	C-O	-5.76	1.17	1.24
1	Aj	9	LEU	C-O	-5.76	1.16	1.24
1	C1	26	ALA	C-O	-5.76	1.17	1.24
1	CP	26	ALA	C-O	-5.76	1.17	1.24
1	CG	26	ALA	C-O	-5.76	1.17	1.24
1	CV	26	ALA	C-O	-5.76	1.17	1.24
1	Ck	26	ALA	C-O	-5.76	1.17	1.24
1	Ar	60	ALA	C-O	-5.76	1.17	1.24
1	Dv	52	GLY	C-O	-5.75	1.18	1.23
1	DI	52	GLY	C-O	-5.75	1.18	1.23
1	AD	60	ALA	C-O	-5.75	1.17	1.24
1	A4	60	ALA	C-O	-5.75	1.17	1.24
1	AS	60	ALA	C-O	-5.75	1.17	1.24
1	AJ	60	ALA	C-O	-5.75	1.17	1.24
1	DW	52	GLY	C-O	-5.75	1.18	1.23
1	HU	34	ARG	C-O	-5.75	1.17	1.24
1	An	60	ALA	C-O	-5.75	1.17	1.24
1	Dl	52	GLY	C-O	-5.75	1.18	1.23
1	A0	74	GLY	C-O	-5.75	1.20	1.24
1	AF	74	GLY	C-O	-5.75	1.20	1.24
1	CF	26	ALA	C-O	-5.75	1.17	1.24
1	IL	9	LEU	C-O	-5.75	1.16	1.24
1	Ab	9	LEU	C-O	-5.75	1.16	1.24
1	Cu	26	ALA	C-O	-5.75	1.17	1.24
1	C8	26	ALA	C-O	-5.75	1.17	1.24
1	CI	26	ALA	C-O	-5.75	1.17	1.24
1	II	9	LEU	C-O	-5.75	1.16	1.24
1	CN	26	ALA	C-O	-5.75	1.17	1.24
1	Cc	26	ALA	C-O	-5.75	1.17	1.24
1	Cr	26	ALA	C-O	-5.75	1.17	1.24
1	LD	50	VAL	C-O	-5.75	1.18	1.24
1	KT	24	ALA	C-O	-5.75	1.17	1.24
1	LS	50	VAL	C-O	-5.75	1.18	1.24
1	IK	9	LEU	C-O	-5.75	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AL	83	ARG	C-O	-5.75	1.16	1.23
1	Lh	50	VAL	C-O	-5.75	1.18	1.24
1	DA	52	GLY	C-O	-5.75	1.18	1.23
1	AR	9	LEU	C-O	-5.75	1.17	1.24
1	CP	83	ARG	C-O	-5.75	1.17	1.24
1	IV	9	LEU	C-O	-5.75	1.17	1.24
1	A5	9	LEU	C-O	-5.75	1.17	1.24
1	AK	9	LEU	C-O	-5.75	1.17	1.24
1	HZ	34	ARG	C-O	-5.75	1.17	1.24
1	Ao	9	LEU	C-O	-5.75	1.17	1.24
1	Jo	10	GLY	CA-C	-5.75	1.48	1.52
1	AB	60	ALA	C-O	-5.74	1.17	1.24
1	A2	60	ALA	C-O	-5.74	1.17	1.24
1	D1	52	GLY	C-O	-5.74	1.18	1.23
1	AQ	60	ALA	C-O	-5.74	1.17	1.24
1	DG	52	GLY	C-O	-5.74	1.18	1.23
1	KN	24	ALA	C-O	-5.74	1.17	1.24
1	Af	9	LEU	C-O	-5.74	1.17	1.24
1	Af	60	ALA	C-O	-5.74	1.17	1.24
1	Hd	34	ARG	C-O	-5.74	1.17	1.24
1	Au	9	LEU	C-O	-5.74	1.17	1.24
1	Au	60	ALA	C-O	-5.74	1.17	1.24
1	Al	60	ALA	C-O	-5.74	1.17	1.24
1	Cs	83	ARG	C-O	-5.74	1.17	1.24
1	Hs	34	ARG	C-O	-5.74	1.17	1.24
1	Df	55	GLY	C-N	-5.74	1.26	1.33
1	A7	9	LEU	C-O	-5.74	1.17	1.24
1	AM	9	LEU	C-O	-5.74	1.17	1.24
1	Ct	26	ALA	C-O	-5.74	1.17	1.24
1	Aq	9	LEU	C-O	-5.74	1.17	1.24
1	IC	9	LEU	C-O	-5.74	1.17	1.24
1	D2	52	GLY	C-O	-5.74	1.18	1.23
1	I1	9	LEU	C-O	-5.74	1.17	1.24
1	IR	9	LEU	C-O	-5.74	1.17	1.24
1	IG	9	LEU	C-O	-5.74	1.17	1.24
3	Yv	801	SER	N-CA	-5.74	1.39	1.45
1	Ik	9	LEU	C-O	-5.74	1.17	1.24
1	AD	9	LEU	C-O	-5.74	1.17	1.24
1	AS	9	LEU	C-O	-5.74	1.17	1.24
1	Ah	9	LEU	C-O	-5.74	1.17	1.24
1	Bh	20	ALA	C-O	-5.74	1.17	1.24
1	Aw	9	LEU	C-O	-5.74	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Bw	20	ALA	C-O	-5.74	1.17	1.24
1	Br	20	ALA	C-O	-5.74	1.17	1.24
1	Bl	20	ALA	C-O	-5.74	1.17	1.24
1	CC	83	ARG	C-O	-5.74	1.17	1.24
1	A6	9	LEU	C-O	-5.74	1.17	1.24
1	I9	9	LEU	C-O	-5.74	1.17	1.24
1	CR	83	ARG	C-O	-5.74	1.17	1.24
1	CF	83	ARG	C-O	-5.74	1.17	1.24
1	IO	9	LEU	C-O	-5.74	1.17	1.24
1	AY	60	ALA	C-O	-5.74	1.17	1.24
1	AE	9	LEU	C-O	-5.73	1.17	1.24
1	C2	83	ARG	C-O	-5.73	1.17	1.24
1	C7	26	ALA	C-O	-5.73	1.17	1.24
1	AT	9	LEU	C-O	-5.73	1.17	1.24
1	CM	26	ALA	C-O	-5.73	1.17	1.24
1	Ai	9	LEU	C-O	-5.73	1.17	1.24
1	Av	9	LEU	C-O	-5.73	1.17	1.24
1	ID	9	LEU	C-O	-5.73	1.17	1.24
1	C2	26	ALA	C-O	-5.73	1.17	1.24
1	I0	9	LEU	C-O	-5.73	1.17	1.24
1	AR	60	ALA	C-O	-5.73	1.17	1.24
1	CH	26	ALA	C-O	-5.73	1.17	1.24
1	IF	9	LEU	C-O	-5.73	1.17	1.24
1	Cg	83	ARG	C-O	-5.73	1.17	1.24
1	Ih	9	LEU	C-O	-5.73	1.17	1.24
1	KW	24	ALA	C-O	-5.73	1.17	1.24
1	Id	9	LEU	C-O	-5.73	1.17	1.24
1	Cv	83	ARG	C-O	-5.73	1.17	1.24
1	Iw	9	LEU	C-O	-5.73	1.17	1.24
1	Cl	26	ALA	C-O	-5.73	1.17	1.24
1	Kl	24	ALA	C-O	-5.73	1.17	1.24
1	Is	9	LEU	C-O	-5.73	1.17	1.24
1	DC	52	GLY	C-O	-5.73	1.18	1.23
1	A2	9	LEU	C-O	-5.73	1.17	1.24
1	D3	52	GLY	C-O	-5.73	1.18	1.23
1	D0	53	GLU	C-O	-5.73	1.16	1.23
1	AH	9	LEU	C-O	-5.73	1.17	1.24
1	Ji	10	GLY	CA-C	-5.73	1.48	1.52
1	JZ	10	GLY	CA-C	-5.73	1.48	1.52
1	Da	52	GLY	C-O	-5.73	1.18	1.23
1	Dp	52	GLY	C-O	-5.73	1.18	1.23
1	DR	52	GLY	C-O	-5.73	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	KE	24	ALA	C-O	-5.73	1.17	1.24
1	A4	9	LEU	C-O	-5.73	1.17	1.24
1	AJ	9	LEU	C-O	-5.73	1.17	1.24
1	Ki	24	ALA	C-O	-5.73	1.17	1.24
1	IX	9	LEU	C-O	-5.73	1.17	1.24
1	Kx	24	ALA	C-O	-5.73	1.17	1.24
1	Im	9	LEU	C-O	-5.73	1.17	1.24
1	E9	37	GLY	C-O	-5.73	1.18	1.24
1	AG	60	ALA	C-O	-5.73	1.17	1.24
3	YG	801	SER	N-CA	-5.73	1.39	1.45
1	CD	83	ARG	C-O	-5.72	1.17	1.24
1	C3	26	ALA	C-O	-5.72	1.17	1.24
1	C6	26	ALA	C-O	-5.72	1.17	1.24
1	CS	83	ARG	C-O	-5.72	1.17	1.24
1	CL	26	ALA	C-O	-5.72	1.17	1.24
1	Ch	83	ARG	C-O	-5.72	1.17	1.24
1	AZ	9	LEU	C-O	-5.72	1.17	1.24
1	CX	26	ALA	C-O	-5.72	1.17	1.24
1	CY	26	ALA	C-O	-5.72	1.17	1.24
1	Ca	26	ALA	C-O	-5.72	1.17	1.24
1	Cw	83	ARG	C-O	-5.72	1.17	1.24
1	Cm	26	ALA	C-O	-5.72	1.17	1.24
1	Cp	26	ALA	C-O	-5.72	1.17	1.24
1	AV	60	ALA	C-O	-5.72	1.17	1.24
1	AY	9	LEU	C-O	-5.72	1.17	1.24
1	Cv	26	ALA	C-O	-5.72	1.17	1.24
1	CB	26	ALA	C-O	-5.72	1.17	1.24
1	KM	24	ALA	C-O	-5.72	1.17	1.24
1	IW	9	LEU	C-O	-5.72	1.17	1.24
1	Cb	26	ALA	C-O	-5.72	1.17	1.24
1	Cq	26	ALA	C-O	-5.72	1.17	1.24
1	Km	24	ALA	C-O	-5.72	1.17	1.24
1	KC	24	ALA	C-O	-5.71	1.17	1.24
3	Y9	801	SER	N-CA	-5.71	1.39	1.45
1	KR	24	ALA	C-O	-5.71	1.17	1.24
1	Kg	24	ALA	C-O	-5.71	1.17	1.24
1	DV	52	GLY	C-O	-5.71	1.18	1.23
1	At	74	GLY	C-O	-5.71	1.20	1.24
1	Kv	24	ALA	C-O	-5.71	1.17	1.24
3	Ys	801	SER	N-CA	-5.71	1.39	1.45
1	EC	37	GLY	C-O	-5.71	1.18	1.24
1	Eg	37	GLY	C-O	-5.71	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ev	37	GLY	C-O	-5.71	1.18	1.24
1	A1	9	LEU	C-O	-5.71	1.17	1.24
1	C0	26	ALA	C-O	-5.71	1.17	1.24
1	C0	83	ARG	C-O	-5.71	1.17	1.24
1	AG	9	LEU	C-O	-5.71	1.17	1.24
1	Ae	9	LEU	C-O	-5.71	1.17	1.24
1	AV	9	LEU	C-O	-5.71	1.17	1.24
1	CU	83	ARG	C-O	-5.71	1.17	1.24
1	Dx	53	GLU	C-O	-5.71	1.16	1.23
1	An	9	LEU	C-O	-5.71	1.17	1.24
1	If	9	LEU	C-O	-5.71	1.17	1.24
1	AW	60	ALA	C-O	-5.71	1.17	1.24
1	Iu	9	LEU	C-O	-5.71	1.17	1.24
1	AE	60	ALA	C-O	-5.71	1.17	1.24
1	JE	10	GLY	CA-C	-5.71	1.48	1.52
1	C4	26	ALA	C-O	-5.71	1.17	1.24
1	C5	83	ARG	C-O	-5.71	1.17	1.24
1	A8	60	ALA	C-O	-5.71	1.17	1.24
1	AT	60	ALA	C-O	-5.71	1.17	1.24
1	JT	10	GLY	CA-C	-5.71	1.48	1.52
1	CJ	26	ALA	C-O	-5.71	1.17	1.24
1	CK	83	ARG	C-O	-5.71	1.17	1.24
1	Ai	60	ALA	C-O	-5.71	1.17	1.24
1	Kh	28	THR	C-O	-5.71	1.17	1.24
1	Ad	60	ALA	C-O	-5.71	1.17	1.24
1	Ax	60	ALA	C-O	-5.71	1.17	1.24
1	Kw	28	THR	C-O	-5.71	1.17	1.24
1	Ao	60	ALA	C-O	-5.71	1.17	1.24
1	Co	83	ARG	C-O	-5.71	1.17	1.24
1	As	60	ALA	C-O	-5.71	1.17	1.24
1	A1	60	ALA	C-O	-5.71	1.17	1.24
1	AF	60	ALA	C-O	-5.71	1.17	1.24
1	CW	26	ALA	C-O	-5.71	1.17	1.24
1	Aa	60	ALA	C-O	-5.71	1.17	1.24
1	Ac	60	ALA	C-O	-5.71	1.17	1.24
1	Ak	60	ALA	C-O	-5.71	1.17	1.24
1	I7	9	LEU	C-O	-5.71	1.17	1.24
1	IM	9	LEU	C-O	-5.71	1.17	1.24
1	DX	52	GLY	C-O	-5.71	1.18	1.23
1	Dm	52	GLY	C-O	-5.71	1.18	1.23
1	AD	74	GLY	C-O	-5.70	1.20	1.24
1	AP	60	ALA	C-O	-5.70	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AS	74	GLY	C-O	-5.70	1.20	1.24
1	Ae	60	ALA	C-O	-5.70	1.17	1.24
1	AW	9	LEU	C-O	-5.70	1.17	1.24
1	Ja	10	GLY	CA-C	-5.70	1.48	1.52
1	At	60	ALA	C-O	-5.70	1.17	1.24
1	Al	9	LEU	C-O	-5.70	1.17	1.24
1	HL	77	ALA	C-O	-5.70	1.16	1.23
1	Cj	26	ALA	C-O	-5.70	1.17	1.24
1	AB	9	LEU	C-O	-5.70	1.17	1.24
1	Cj	83	ARG	C-O	-5.70	1.17	1.24
1	CC	26	ALA	C-O	-5.70	1.17	1.24
1	DQ	52	GLY	C-O	-5.70	1.18	1.23
1	Ew	37	GLY	C-O	-5.70	1.18	1.24
1	Hn	11	MET	C-O	-5.70	1.17	1.24
1	AC	60	ALA	C-O	-5.70	1.17	1.24
1	Ag	9	LEU	C-O	-5.70	1.17	1.24
1	Ag	60	ALA	C-O	-5.70	1.17	1.24
1	Ah	74	GLY	C-O	-5.70	1.20	1.24
3	Yg	798	ASP	CA-C	-5.70	1.45	1.52
1	Av	60	ALA	C-O	-5.70	1.17	1.24
1	Aw	74	GLY	C-O	-5.70	1.20	1.24
3	Yv	798	ASP	CA-C	-5.70	1.45	1.52
1	C4	83	ARG	C-O	-5.70	1.17	1.24
1	CJ	83	ARG	C-O	-5.70	1.17	1.24
1	HF	77	ALA	C-O	-5.70	1.16	1.23
1	Ch	26	ALA	C-O	-5.70	1.17	1.24
1	Cw	26	ALA	C-O	-5.70	1.17	1.24
1	CR	26	ALA	C-O	-5.69	1.17	1.24
1	Cm	83	ARG	C-O	-5.69	1.17	1.24
1	CA	83	ARG	C-O	-5.69	1.17	1.24
1	CD	26	ALA	C-O	-5.69	1.17	1.24
1	C1	83	ARG	C-O	-5.69	1.17	1.24
1	I3	9	LEU	C-O	-5.69	1.17	1.24
1	A7	60	ALA	C-O	-5.69	1.17	1.24
1	IS	9	LEU	C-O	-5.69	1.17	1.24
1	CG	83	ARG	C-O	-5.69	1.17	1.24
1	AM	60	ALA	C-O	-5.69	1.17	1.24
1	CO	83	ARG	C-O	-5.69	1.17	1.24
1	Ce	83	ARG	C-O	-5.69	1.17	1.24
1	Dg	52	GLY	C-O	-5.69	1.18	1.23
3	Yb	798	ASP	CA-C	-5.69	1.45	1.52
1	Ct	83	ARG	C-O	-5.69	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D6	52	GLY	C-O	-5.69	1.18	1.23
1	C9	83	ARG	C-O	-5.69	1.17	1.24
1	Cd	83	ARG	C-O	-5.69	1.17	1.24
1	Dd	52	GLY	C-O	-5.69	1.18	1.23
1	Cp	83	ARG	C-O	-5.69	1.17	1.24
1	C3	83	ARG	C-O	-5.69	1.17	1.24
1	E4	37	GLY	C-O	-5.69	1.18	1.24
1	CI	83	ARG	C-O	-5.69	1.17	1.24
1	EJ	37	GLY	C-O	-5.69	1.18	1.24
1	Eh	37	GLY	C-O	-5.69	1.18	1.24
1	EW	37	GLY	C-O	-5.69	1.18	1.24
1	Jx	10	GLY	CA-C	-5.69	1.48	1.52
1	El	37	GLY	C-O	-5.69	1.18	1.24
1	C7	83	ARG	C-O	-5.69	1.17	1.24
1	C9	26	ALA	C-O	-5.69	1.17	1.24
1	CM	83	ARG	C-O	-5.69	1.17	1.24
1	CO	26	ALA	C-O	-5.69	1.17	1.24
1	Ci	83	ARG	C-O	-5.69	1.17	1.24
1	CW	83	ARG	C-O	-5.69	1.17	1.24
1	CY	83	ARG	C-O	-5.69	1.17	1.24
1	Cb	83	ARG	C-O	-5.69	1.17	1.24
1	Cl	83	ARG	C-O	-5.69	1.17	1.24
1	Cn	83	ARG	C-O	-5.69	1.17	1.24
1	Cq	83	ARG	C-O	-5.69	1.17	1.24
1	Cs	26	ALA	C-O	-5.69	1.17	1.24
1	Do	53	GLU	C-O	-5.69	1.16	1.23
1	Hu	9	LEU	C-O	-5.68	1.17	1.23
1	AA	9	LEU	C-O	-5.68	1.17	1.24
1	I2	9	LEU	C-O	-5.68	1.17	1.24
1	I8	9	LEU	C-O	-5.68	1.17	1.24
3	Y7	798	ASP	CA-C	-5.68	1.45	1.52
1	AP	9	LEU	C-O	-5.68	1.17	1.24
1	IN	9	LEU	C-O	-5.68	1.17	1.24
1	EX	37	GLY	C-O	-5.68	1.18	1.24
1	IU	9	LEU	C-O	-5.68	1.17	1.24
1	Ic	9	LEU	C-O	-5.68	1.17	1.24
1	EI	37	GLY	C-O	-5.68	1.18	1.24
1	Em	37	GLY	C-O	-5.68	1.18	1.24
1	E7	37	GLY	C-O	-5.68	1.18	1.24
1	HT	77	ALA	C-O	-5.68	1.16	1.23
1	KS	28	THR	C-O	-5.68	1.17	1.24
1	EM	37	GLY	C-O	-5.68	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	En	37	GLY	C-O	-5.68	1.18	1.24
1	Eq	37	GLY	C-O	-5.68	1.18	1.24
1	AE	74	GLY	C-O	-5.68	1.20	1.24
1	KH	24	ALA	C-O	-5.68	1.17	1.24
1	KF	28	THR	C-O	-5.68	1.17	1.24
1	CU	26	ALA	C-O	-5.68	1.17	1.24
1	Ax	9	LEU	C-O	-5.68	1.17	1.24
1	D5	53	GLU	C-O	-5.68	1.16	1.23
1	Di	53	GLU	C-O	-5.68	1.16	1.23
1	DZ	53	GLU	C-O	-5.68	1.16	1.23
1	Aj	60	ALA	C-O	-5.68	1.17	1.24
1	CE	83	ARG	C-O	-5.68	1.17	1.24
1	C8	83	ARG	C-O	-5.68	1.17	1.24
1	CS	26	ALA	C-O	-5.68	1.17	1.24
1	CT	83	ARG	C-O	-5.68	1.17	1.24
1	CH	83	ARG	C-O	-5.68	1.17	1.24
1	CN	83	ARG	C-O	-5.68	1.17	1.24
1	Cc	83	ARG	C-O	-5.68	1.17	1.24
1	Cr	83	ARG	C-O	-5.68	1.17	1.24
1	KV	28	THR	C-O	-5.67	1.17	1.24
1	CB	83	ARG	C-O	-5.67	1.17	1.24
1	HE	77	ALA	C-O	-5.67	1.16	1.23
1	CQ	83	ARG	C-O	-5.67	1.17	1.24
1	Cf	83	ARG	C-O	-5.67	1.17	1.24
1	Cu	83	ARG	C-O	-5.67	1.17	1.24
1	IJ	9	LEU	C-O	-5.67	1.17	1.24
1	EY	37	GLY	C-O	-5.67	1.18	1.24
1	Eb	37	GLY	C-O	-5.67	1.18	1.24
1	EE	37	GLY	C-O	-5.67	1.18	1.24
1	ET	37	GLY	C-O	-5.67	1.18	1.24
1	IH	9	LEU	C-O	-5.67	1.17	1.24
1	Ij	9	LEU	C-O	-5.67	1.17	1.24
1	Cd	26	ALA	C-O	-5.67	1.17	1.24
1	Iq	9	LEU	C-O	-5.67	1.17	1.24
1	KY	28	THR	C-O	-5.67	1.17	1.24
1	Cx	83	ARG	C-O	-5.67	1.17	1.24
1	E3	37	GLY	C-O	-5.67	1.18	1.24
1	IB	9	LEU	C-O	-5.66	1.17	1.24
1	KD	28	THR	C-O	-5.66	1.17	1.24
1	A3	60	ALA	C-O	-5.66	1.17	1.24
1	K3	28	THR	C-O	-5.66	1.17	1.24
1	A6	60	ALA	C-O	-5.66	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AI	60	ALA	C-O	-5.66	1.17	1.24
1	AX	60	ALA	C-O	-5.66	1.17	1.24
1	AU	74	GLY	C-O	-5.66	1.20	1.24
1	A5	60	ALA	C-O	-5.66	1.17	1.24
1	K8	28	THR	C-O	-5.66	1.17	1.24
1	KN	28	THR	C-O	-5.66	1.17	1.24
1	AZ	60	ALA	C-O	-5.66	1.17	1.24
1	CZ	83	ARG	C-O	-5.66	1.17	1.24
1	Kc	28	THR	C-O	-5.66	1.17	1.24
1	Ho	77	ALA	C-O	-5.66	1.16	1.23
1	AQ	9	LEU	C-O	-5.66	1.17	1.24
1	CX	83	ARG	C-O	-5.66	1.17	1.24
1	Dr	53	GLU	C-O	-5.66	1.16	1.23
1	EP	37	GLY	C-O	-5.66	1.18	1.24
1	Hh	11	MET	C-O	-5.66	1.17	1.24
1	Am	60	ALA	C-O	-5.66	1.17	1.24
1	Il	9	LEU	C-O	-5.66	1.17	1.24
1	C6	83	ARG	C-O	-5.65	1.17	1.24
1	CL	83	ARG	C-O	-5.65	1.17	1.24
1	Ca	83	ARG	C-O	-5.65	1.17	1.24
1	KI	28	THR	C-O	-5.65	1.17	1.24
1	H0	77	ALA	C-O	-5.65	1.16	1.23
1	DW	53	GLU	C-O	-5.65	1.16	1.23
1	HU	77	ALA	C-O	-5.65	1.16	1.23
1	Hx	77	ALA	C-O	-5.65	1.16	1.23
1	Hj	77	ALA	C-O	-5.65	1.16	1.23
1	Dl	53	GLU	C-O	-5.65	1.16	1.23
1	H6	77	ALA	C-O	-5.65	1.16	1.23
1	Fi	49	LEU	C-O	-5.65	1.17	1.24
1	Kn	28	THR	C-O	-5.65	1.17	1.24
1	DK	53	GLU	C-O	-5.65	1.16	1.23
1	Ea	37	GLY	C-O	-5.65	1.18	1.24
3	Yq	798	ASP	CA-C	-5.65	1.45	1.52
1	A0	60	ALA	C-O	-5.64	1.17	1.24
1	AU	60	ALA	C-O	-5.64	1.17	1.24
1	HR	9	LEU	C-O	-5.64	1.17	1.23
1	IQ	9	LEU	C-O	-5.64	1.17	1.24
3	YI	798	ASP	CA-C	-5.64	1.45	1.52
1	Hd	11	MET	C-O	-5.64	1.17	1.24
1	Hs	11	MET	C-O	-5.64	1.17	1.24
1	D1	53	GLU	C-O	-5.64	1.16	1.23
1	H5	77	ALA	C-O	-5.64	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DG	53	GLU	C-O	-5.64	1.16	1.23
1	HK	77	ALA	C-O	-5.64	1.16	1.23
1	DV	53	GLU	C-O	-5.64	1.16	1.23
1	HZ	77	ALA	C-O	-5.64	1.16	1.23
1	Dk	53	GLU	C-O	-5.64	1.16	1.23
1	KB	28	THR	C-O	-5.64	1.17	1.24
1	A4	74	GLY	C-O	-5.64	1.20	1.24
1	AJ	74	GLY	C-O	-5.64	1.20	1.24
1	Cg	26	ALA	C-O	-5.64	1.17	1.24
1	Kf	28	THR	C-O	-5.64	1.17	1.24
1	AY	74	GLY	C-O	-5.64	1.20	1.24
1	An	74	GLY	C-O	-5.64	1.20	1.24
1	Ir	9	LEU	C-O	-5.64	1.17	1.24
3	YC	798	ASP	CA-C	-5.64	1.45	1.52
1	E5	37	GLY	C-O	-5.64	1.18	1.24
1	E8	37	GLY	C-O	-5.64	1.18	1.24
1	DP	53	GLU	C-O	-5.64	1.16	1.23
1	EK	37	GLY	C-O	-5.64	1.18	1.24
1	EN	37	GLY	C-O	-5.64	1.18	1.24
3	Ya	798	ASP	CA-C	-5.64	1.45	1.52
1	Eo	37	GLY	C-O	-5.64	1.18	1.24
1	I4	9	LEU	C-O	-5.63	1.17	1.24
3	YM	798	ASP	CA-C	-5.63	1.45	1.52
1	De	53	GLU	C-O	-5.63	1.16	1.23
1	Ib	9	LEU	C-O	-5.63	1.17	1.24
3	Yw	798	ASP	CA-C	-5.63	1.45	1.52
1	DA	53	GLU	C-O	-5.63	1.16	1.23
1	Hg	77	ALA	C-O	-5.63	1.16	1.23
1	DX	53	GLU	C-O	-5.63	1.16	1.23
1	Dt	53	GLU	C-O	-5.63	1.16	1.23
1	Dm	53	GLU	C-O	-5.63	1.16	1.23
1	E2	37	GLY	C-O	-5.63	1.18	1.24
1	ER	37	GLY	C-O	-5.63	1.18	1.24
1	Hi	77	ALA	C-O	-5.63	1.16	1.23
1	EU	37	GLY	C-O	-5.63	1.18	1.24
1	Ej	37	GLY	C-O	-5.63	1.18	1.24
1	Ep	37	GLY	C-O	-5.63	1.18	1.24
1	ED	37	GLY	C-O	-5.63	1.18	1.24
1	HE	11	MET	C-O	-5.63	1.17	1.24
1	ES	37	GLY	C-O	-5.63	1.18	1.24
1	HT	11	MET	C-O	-5.63	1.17	1.24
3	YR	798	ASP	CA-C	-5.63	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H7	77	ALA	C-O	-5.62	1.16	1.23
1	HM	77	ALA	C-O	-5.62	1.16	1.23
1	Hb	77	ALA	C-O	-5.62	1.16	1.23
1	D8	53	GLU	C-O	-5.62	1.16	1.23
1	DN	53	GLU	C-O	-5.62	1.16	1.23
1	Ei	37	GLY	C-O	-5.62	1.18	1.24
1	Dc	53	GLU	C-O	-5.62	1.16	1.23
1	Ex	37	GLY	C-O	-5.62	1.18	1.24
1	Hq	77	ALA	C-O	-5.62	1.16	1.23
1	HD	11	MET	C-O	-5.62	1.17	1.24
1	H5	11	MET	C-O	-5.62	1.17	1.24
1	HS	11	MET	C-O	-5.62	1.17	1.24
1	HK	11	MET	C-O	-5.62	1.17	1.24
1	HO	11	MET	C-O	-5.62	1.17	1.24
1	EZ	37	GLY	C-O	-5.62	1.18	1.24
1	HZ	11	MET	C-O	-5.62	1.17	1.24
1	Co	81	ILE	C-O	-5.62	1.17	1.24
1	Hk	77	ALA	C-O	-5.62	1.16	1.23
1	Ho	11	MET	C-O	-5.62	1.17	1.24
1	HB	9	LEU	C-O	-5.62	1.17	1.23
1	HQ	9	LEU	C-O	-5.62	1.17	1.23
1	Hf	9	LEU	C-O	-5.62	1.17	1.23
1	HW	11	MET	C-O	-5.62	1.17	1.24
1	DE	53	GLU	C-O	-5.62	1.16	1.23
1	E0	37	GLY	C-O	-5.62	1.18	1.24
1	DT	53	GLU	C-O	-5.62	1.16	1.23
1	Hr	77	ALA	C-O	-5.62	1.16	1.23
1	H4	11	MET	C-O	-5.61	1.17	1.24
1	HJ	11	MET	C-O	-5.61	1.17	1.24
1	Hg	9	LEU	C-O	-5.61	1.17	1.23
1	HY	11	MET	C-O	-5.61	1.17	1.24
1	Hw	11	MET	C-O	-5.61	1.17	1.24
1	AL	60	ALA	C-O	-5.61	1.17	1.24
1	Du	53	GLU	C-O	-5.61	1.16	1.23
1	H9	11	MET	C-O	-5.61	1.17	1.24
3	Yf	798	ASP	CA-C	-5.61	1.45	1.52
1	Hv	9	LEU	C-O	-5.61	1.17	1.23
3	Yu	798	ASP	CA-C	-5.61	1.45	1.52
1	D3	53	GLU	C-O	-5.61	1.16	1.23
1	H1	77	ALA	C-O	-5.61	1.16	1.23
1	HG	77	ALA	C-O	-5.61	1.16	1.23
1	DL	53	GLU	C-O	-5.61	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hd	49	LEU	C-O	-5.61	1.17	1.24
1	Hs	49	LEU	C-O	-5.61	1.17	1.24
1	IY	9	LEU	C-O	-5.61	1.17	1.24
1	Ec	37	GLY	C-O	-5.61	1.18	1.24
1	Fj	49	LEU	C-O	-5.61	1.17	1.24
1	KR	28	THR	C-O	-5.61	1.17	1.24
1	Kv	28	THR	C-O	-5.61	1.17	1.24
1	KJ	28	THR	C-O	-5.60	1.17	1.24
1	Ht	11	MET	C-O	-5.60	1.17	1.24
1	Df	52	GLY	C-O	-5.60	1.18	1.23
1	E1	37	GLY	C-O	-5.60	1.18	1.24
1	EG	37	GLY	C-O	-5.60	1.18	1.24
1	EV	37	GLY	C-O	-5.60	1.18	1.24
1	Ek	37	GLY	C-O	-5.60	1.18	1.24
1	E6	37	GLY	C-O	-5.60	1.18	1.24
1	AT	74	GLY	C-O	-5.60	1.20	1.24
1	FT	49	LEU	C-O	-5.60	1.17	1.24
1	KX	28	THR	C-O	-5.60	1.17	1.24
1	Hm	9	LEU	C-O	-5.60	1.17	1.23
1	Km	28	THR	C-O	-5.60	1.17	1.24
1	HC	77	ALA	C-O	-5.60	1.16	1.23
1	Hv	77	ALA	C-O	-5.60	1.16	1.23
1	Hp	9	LEU	C-O	-5.60	1.17	1.23
1	HC	9	LEU	C-O	-5.59	1.17	1.23
1	HV	77	ALA	C-O	-5.59	1.16	1.23
1	CD	81	ILE	C-O	-5.59	1.17	1.24
1	DC	53	GLU	C-O	-5.59	1.16	1.23
1	K9	28	THR	C-O	-5.59	1.17	1.24
1	CS	81	ILE	C-O	-5.59	1.17	1.24
1	Ch	81	ILE	C-O	-5.59	1.17	1.24
1	Dg	53	GLU	C-O	-5.59	1.16	1.23
3	Yc	798	ASP	CA-C	-5.59	1.45	1.52
1	Cw	81	ILE	C-O	-5.59	1.17	1.24
1	Dv	53	GLU	C-O	-5.59	1.16	1.23
1	DR	53	GLU	C-O	-5.59	1.16	1.23
1	D2	53	GLU	C-O	-5.59	1.16	1.23
1	Ha	77	ALA	C-O	-5.59	1.16	1.23
1	Dt	78	ALA	C-O	-5.59	1.17	1.24
3	Ym	798	ASP	CA-C	-5.59	1.45	1.52
1	Hp	77	ALA	C-O	-5.59	1.16	1.23
3	Y1	798	ASP	CA-C	-5.59	1.45	1.52
3	YG	798	ASP	CA-C	-5.59	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	YV	798	ASP	CA-C	-5.59	1.45	1.52
3	Yd	798	ASP	CA-C	-5.59	1.45	1.52
1	Fw	49	LEU	C-O	-5.59	1.17	1.24
3	Yk	798	ASP	CA-C	-5.59	1.45	1.52
1	Fh	49	LEU	C-O	-5.59	1.17	1.24
1	AK	60	ALA	C-O	-5.59	1.17	1.24
1	DI	53	GLU	C-O	-5.59	1.16	1.23
1	HB	11	MET	C-O	-5.59	1.17	1.24
1	HQ	11	MET	C-O	-5.59	1.17	1.24
3	YX	798	ASP	CA-C	-5.59	1.45	1.52
1	FU	49	LEU	C-O	-5.59	1.17	1.24
3	Y3	798	ASP	CA-C	-5.59	1.45	1.52
3	YD	798	ASP	CA-C	-5.58	1.45	1.52
3	YS	798	ASP	CA-C	-5.58	1.45	1.52
3	Yh	798	ASP	CA-C	-5.58	1.45	1.52
1	DM	78	ALA	C-O	-5.58	1.17	1.24
3	YB	798	ASP	CA-C	-5.58	1.45	1.52
3	Y2	798	ASP	CA-C	-5.58	1.45	1.52
3	Y6	798	ASP	CA-C	-5.58	1.45	1.52
3	YQ	798	ASP	CA-C	-5.58	1.45	1.52
1	HI	77	ALA	C-O	-5.58	1.17	1.23
3	YH	798	ASP	CA-C	-5.58	1.45	1.52
1	HX	9	LEU	C-O	-5.58	1.17	1.23
1	HX	77	ALA	C-O	-5.58	1.17	1.23
1	HY	77	ALA	C-O	-5.58	1.17	1.23
3	YW	798	ASP	CA-C	-5.58	1.45	1.52
1	HA	77	ALA	C-O	-5.58	1.17	1.23
1	HB	77	ALA	C-O	-5.58	1.17	1.23
1	H2	77	ALA	C-O	-5.58	1.17	1.23
1	H4	77	ALA	C-O	-5.58	1.17	1.23
1	HP	9	LEU	C-O	-5.58	1.17	1.23
1	HH	77	ALA	C-O	-5.58	1.17	1.23
1	HJ	77	ALA	C-O	-5.58	1.17	1.23
1	He	77	ALA	C-O	-5.58	1.17	1.23
1	Hh	77	ALA	C-O	-5.58	1.17	1.23
1	HW	77	ALA	C-O	-5.58	1.17	1.23
1	Hd	9	LEU	C-O	-5.58	1.17	1.23
1	Ht	77	ALA	C-O	-5.58	1.17	1.23
1	Hl	77	ALA	C-O	-5.58	1.17	1.23
1	C5	81	ILE	C-O	-5.58	1.17	1.24
1	FE	49	LEU	C-O	-5.58	1.17	1.24
1	D2	78	ALA	C-O	-5.58	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Kd	28	THR	C-O	-5.58	1.17	1.24
1	Fx	49	LEU	C-O	-5.58	1.17	1.24
1	Kt	28	THR	C-O	-5.58	1.17	1.24
1	Ks	28	THR	C-O	-5.58	1.17	1.24
3	Yp	798	ASP	CA-C	-5.58	1.45	1.52
1	Ef	37	GLY	C-O	-5.58	1.18	1.24
1	Eu	37	GLY	C-O	-5.58	1.18	1.24
1	K0	28	THR	C-O	-5.58	1.17	1.24
1	Dl	78	ALA	C-O	-5.58	1.17	1.24
3	Y4	798	ASP	CA-C	-5.57	1.45	1.52
1	D9	53	GLU	C-O	-5.57	1.16	1.23
1	H0	11	MET	C-O	-5.57	1.17	1.24
3	YJ	798	ASP	CA-C	-5.57	1.45	1.52
1	DO	53	GLU	C-O	-5.57	1.16	1.23
1	HF	11	MET	C-O	-5.57	1.17	1.24
1	Hi	11	MET	C-O	-5.57	1.17	1.24
1	Dd	53	GLU	C-O	-5.57	1.16	1.23
1	Hc	11	MET	C-O	-5.57	1.17	1.24
1	Du	52	GLY	C-O	-5.57	1.18	1.23
1	Hx	11	MET	C-O	-5.57	1.17	1.24
1	Hl	11	MET	C-O	-5.57	1.17	1.24
1	Ds	53	GLU	C-O	-5.57	1.16	1.23
1	CK	81	ILE	C-O	-5.57	1.17	1.24
1	H8	9	LEU	C-O	-5.57	1.17	1.23
1	H8	77	ALA	C-O	-5.57	1.17	1.23
1	HN	9	LEU	C-O	-5.57	1.17	1.23
3	YN	798	ASP	CA-C	-5.57	1.45	1.52
1	Hb	11	MET	C-O	-5.57	1.17	1.24
1	Hc	77	ALA	C-O	-5.57	1.17	1.23
1	In	9	LEU	C-O	-5.57	1.17	1.24
1	Kk	28	THR	C-O	-5.57	1.17	1.24
1	Hq	11	MET	C-O	-5.57	1.17	1.24
1	CE	81	ILE	C-O	-5.57	1.17	1.24
1	CT	81	ILE	C-O	-5.57	1.17	1.24
1	Ci	81	ILE	C-O	-5.57	1.17	1.24
1	Hf	77	ALA	C-O	-5.57	1.17	1.23
1	Cx	81	ILE	C-O	-5.57	1.17	1.24
1	HA	11	MET	C-O	-5.57	1.17	1.24
1	HA	49	LEU	C-O	-5.57	1.17	1.24
1	H1	11	MET	C-O	-5.57	1.17	1.24
1	H2	11	MET	C-O	-5.57	1.17	1.24
1	HP	11	MET	C-O	-5.57	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	HP	77	ALA	C-O	-5.57	1.17	1.23
1	HH	11	MET	C-O	-5.57	1.17	1.24
1	CO	81	ILE	C-O	-5.57	1.17	1.24
1	Ee	37	GLY	C-O	-5.57	1.18	1.24
1	HV	11	MET	C-O	-5.57	1.17	1.24
1	HU	11	MET	C-O	-5.57	1.17	1.24
1	Md	50	VAL	C-O	-5.57	1.18	1.24
1	Et	37	GLY	C-O	-5.57	1.18	1.24
1	Hj	11	MET	C-O	-5.57	1.17	1.24
1	Ms	50	VAL	C-O	-5.57	1.18	1.24
1	EA	37	GLY	C-O	-5.57	1.18	1.24
1	EB	37	GLY	C-O	-5.57	1.18	1.24
1	H3	9	LEU	C-O	-5.57	1.17	1.23
1	EQ	37	GLY	C-O	-5.57	1.18	1.24
1	EH	37	GLY	C-O	-5.57	1.18	1.24
1	HI	9	LEU	C-O	-5.57	1.17	1.23
1	KL	28	THR	C-O	-5.57	1.17	1.24
1	Ka	28	THR	C-O	-5.57	1.17	1.24
1	Kp	28	THR	C-O	-5.57	1.17	1.24
1	HR	77	ALA	C-O	-5.56	1.17	1.23
1	HN	77	ALA	C-O	-5.56	1.17	1.23
1	Hs	9	LEU	C-O	-5.56	1.17	1.23
3	YA	798	ASP	CA-C	-5.56	1.45	1.52
1	H8	49	LEU	C-O	-5.56	1.17	1.24
1	HP	49	LEU	C-O	-5.56	1.17	1.24
3	YP	798	ASP	CA-C	-5.56	1.45	1.52
1	HN	49	LEU	C-O	-5.56	1.17	1.24
1	Hb	9	LEU	C-O	-5.56	1.17	1.23
1	Hc	49	LEU	C-O	-5.56	1.17	1.24
1	KU	28	THR	C-O	-5.56	1.17	1.24
3	Yl	798	ASP	CA-C	-5.56	1.45	1.52
1	Hq	9	LEU	C-O	-5.56	1.17	1.23
1	Hr	49	LEU	C-O	-5.56	1.17	1.24
1	Kj	28	THR	C-O	-5.56	1.17	1.24
1	Hf	11	MET	C-O	-5.56	1.17	1.24
1	Ki	28	THR	C-O	-5.56	1.17	1.24
1	CZ	81	ILE	C-O	-5.56	1.17	1.24
1	Hu	11	MET	C-O	-5.56	1.17	1.24
1	Kx	28	THR	C-O	-5.56	1.17	1.24
1	C4	81	ILE	C-O	-5.56	1.17	1.24
1	H7	9	LEU	C-O	-5.56	1.17	1.23
1	CJ	81	ILE	C-O	-5.56	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	HJ	9	LEU	C-O	-5.56	1.17	1.23
1	AO	74	GLY	C-O	-5.56	1.20	1.24
1	HM	9	LEU	C-O	-5.56	1.17	1.23
1	Ho	9	LEU	C-O	-5.56	1.17	1.23
1	F5	49	LEU	C-O	-5.56	1.17	1.24
3	Y9	798	ASP	CA-C	-5.56	1.45	1.52
1	FK	49	LEU	C-O	-5.56	1.17	1.24
1	HG	11	MET	C-O	-5.56	1.17	1.24
3	YO	798	ASP	CA-C	-5.56	1.45	1.52
1	He	11	MET	C-O	-5.56	1.17	1.24
1	CY	81	ILE	C-O	-5.56	1.17	1.24
1	FZ	49	LEU	C-O	-5.56	1.17	1.24
1	Fo	49	LEU	C-O	-5.56	1.17	1.24
1	Kr	28	THR	C-O	-5.56	1.17	1.24
3	Ys	798	ASP	CA-C	-5.56	1.45	1.52
1	HD	77	ALA	C-O	-5.55	1.17	1.23
1	C9	81	ILE	C-O	-5.55	1.17	1.24
1	H9	49	LEU	C-O	-5.55	1.17	1.24
1	K6	28	THR	C-O	-5.55	1.17	1.24
1	HO	49	LEU	C-O	-5.55	1.17	1.24
1	Cs	81	ILE	C-O	-5.55	1.17	1.24
1	H8	11	MET	C-O	-5.55	1.17	1.24
1	DQ	53	GLU	C-O	-5.55	1.16	1.23
1	HG	49	LEU	C-O	-5.55	1.17	1.24
1	Ha	9	LEU	C-O	-5.55	1.17	1.23
3	Yr	798	ASP	CA-C	-5.55	1.45	1.52
1	H3	77	ALA	C-O	-5.55	1.17	1.23
1	F0	49	LEU	C-O	-5.55	1.17	1.24
1	H6	9	LEU	C-O	-5.55	1.17	1.23
1	HL	9	LEU	C-O	-5.55	1.17	1.23
3	Ye	798	ASP	CA-C	-5.55	1.45	1.52
1	Fb	49	LEU	C-O	-5.55	1.17	1.24
1	Do	78	ALA	C-O	-5.55	1.17	1.24
1	Kq	28	THR	C-O	-5.55	1.17	1.24
1	HD	49	LEU	C-O	-5.55	1.17	1.24
1	KC	28	THR	C-O	-5.55	1.17	1.24
1	HS	49	LEU	C-O	-5.55	1.17	1.24
1	HI	49	LEU	C-O	-5.55	1.17	1.24
1	Kg	28	THR	C-O	-5.55	1.17	1.24
1	HX	49	LEU	C-O	-5.55	1.17	1.24
1	Hb	49	LEU	C-O	-5.55	1.17	1.24
1	Hm	49	LEU	C-O	-5.55	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hq	49	LEU	C-O	-5.55	1.17	1.24
1	HC	49	LEU	C-O	-5.55	1.17	1.24
1	MA	50	VAL	C-O	-5.55	1.18	1.24
1	ME	50	VAL	C-O	-5.55	1.18	1.24
1	F7	49	LEU	C-O	-5.55	1.17	1.24
1	MT	50	VAL	C-O	-5.55	1.18	1.24
1	FM	49	LEU	C-O	-5.55	1.17	1.24
1	Hg	49	LEU	C-O	-5.55	1.17	1.24
1	Mi	50	VAL	C-O	-5.55	1.18	1.24
1	Hv	49	LEU	C-O	-5.55	1.17	1.24
1	Mx	50	VAL	C-O	-5.55	1.18	1.24
1	FY	49	LEU	C-O	-5.55	1.17	1.24
1	Fq	49	LEU	C-O	-5.55	1.17	1.24
1	F4	49	LEU	C-O	-5.54	1.17	1.24
1	H4	49	LEU	C-O	-5.54	1.17	1.24
3	Y5	798	ASP	CA-C	-5.54	1.45	1.52
1	H7	49	LEU	C-O	-5.54	1.17	1.24
1	HJ	49	LEU	C-O	-5.54	1.17	1.24
3	YK	798	ASP	CA-C	-5.54	1.45	1.52
1	HM	49	LEU	C-O	-5.54	1.17	1.24
1	HY	49	LEU	C-O	-5.54	1.17	1.24
1	Fa	49	LEU	C-O	-5.54	1.17	1.24
1	Hn	49	LEU	C-O	-5.54	1.17	1.24
1	Fp	49	LEU	C-O	-5.54	1.17	1.24
1	Cd	81	ILE	C-O	-5.54	1.17	1.24
1	F9	49	LEU	C-O	-5.54	1.17	1.24
1	CP	81	ILE	C-O	-5.54	1.17	1.24
1	FO	49	LEU	C-O	-5.54	1.17	1.24
1	DW	78	ALA	C-O	-5.54	1.17	1.24
1	Hc	9	LEU	C-O	-5.54	1.17	1.23
1	Hr	9	LEU	C-O	-5.54	1.17	1.23
1	F2	49	LEU	C-O	-5.54	1.17	1.24
1	FH	49	LEU	C-O	-5.54	1.17	1.24
1	Fl	49	LEU	C-O	-5.54	1.17	1.24
1	H6	11	MET	C-O	-5.54	1.17	1.24
1	HL	11	MET	C-O	-5.54	1.17	1.24
3	YY	798	ASP	CA-C	-5.54	1.45	1.52
3	Yn	798	ASP	CA-C	-5.54	1.45	1.52
1	H7	11	MET	C-O	-5.54	1.17	1.24
1	HM	11	MET	C-O	-5.54	1.17	1.24
1	Ku	28	THR	C-O	-5.54	1.17	1.24
1	H1	9	LEU	C-O	-5.54	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H2	9	LEU	C-O	-5.54	1.17	1.23
1	HG	9	LEU	C-O	-5.54	1.17	1.23
1	HH	9	LEU	C-O	-5.54	1.17	1.23
1	FX	49	LEU	C-O	-5.54	1.17	1.24
1	HW	9	LEU	C-O	-5.54	1.17	1.23
1	Hu	77	ALA	C-O	-5.54	1.17	1.23
3	Yx	798	ASP	CA-C	-5.54	1.45	1.52
1	Fm	49	LEU	C-O	-5.54	1.17	1.24
1	Hl	9	LEU	C-O	-5.54	1.17	1.23
1	Hm	77	ALA	C-O	-5.54	1.17	1.23
1	H2	49	LEU	C-O	-5.53	1.17	1.24
1	K5	28	THR	C-O	-5.53	1.17	1.24
1	HH	49	LEU	C-O	-5.53	1.17	1.24
1	MG	50	VAL	C-O	-5.53	1.18	1.24
1	DL	78	ALA	C-O	-5.53	1.17	1.24
1	D6	78	ALA	C-O	-5.53	1.17	1.24
1	H1	49	LEU	C-O	-5.53	1.17	1.24
1	H5	9	LEU	C-O	-5.53	1.17	1.23
1	HK	9	LEU	C-O	-5.53	1.17	1.23
1	Ht	49	LEU	C-O	-5.53	1.17	1.24
1	FB	49	LEU	C-O	-5.53	1.17	1.24
1	K1	28	THR	C-O	-5.53	1.17	1.24
1	C8	81	ILE	C-O	-5.53	1.17	1.24
3	Y0	798	ASP	CA-C	-5.53	1.45	1.52
1	FQ	49	LEU	C-O	-5.53	1.17	1.24
1	KG	28	THR	C-O	-5.53	1.17	1.24
1	CN	81	ILE	C-O	-5.53	1.17	1.24
1	DN	78	ALA	C-O	-5.53	1.17	1.24
3	YF	798	ASP	CA-C	-5.53	1.45	1.52
1	Cc	81	ILE	C-O	-5.53	1.17	1.24
1	Da	53	GLU	C-O	-5.53	1.16	1.23
3	YU	798	ASP	CA-C	-5.53	1.45	1.52
1	F1	49	LEU	C-O	-5.53	1.17	1.24
1	FG	49	LEU	C-O	-5.53	1.17	1.24
1	FV	49	LEU	C-O	-5.53	1.17	1.24
1	CU	81	ILE	C-O	-5.53	1.17	1.24
1	Fd	49	LEU	C-O	-5.53	1.17	1.24
1	Cj	81	ILE	C-O	-5.53	1.17	1.24
1	DA	78	ALA	C-O	-5.53	1.17	1.24
3	Y8	798	ASP	CA-C	-5.53	1.45	1.52
1	DP	78	ALA	C-O	-5.53	1.17	1.24
1	KK	28	THR	C-O	-5.53	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ML	50	VAL	C-O	-5.53	1.18	1.24
3	YL	798	ASP	CA-C	-5.53	1.45	1.52
1	De	78	ALA	C-O	-5.53	1.17	1.24
1	HQ	77	ALA	C-O	-5.53	1.17	1.23
1	H3	49	LEU	C-O	-5.52	1.17	1.24
1	KQ	28	THR	C-O	-5.52	1.17	1.24
1	HV	9	LEU	C-O	-5.52	1.17	1.23
1	HZ	9	LEU	C-O	-5.52	1.17	1.23
3	YZ	798	ASP	CA-C	-5.52	1.45	1.52
1	Hk	9	LEU	C-O	-5.52	1.17	1.23
1	H9	77	ALA	C-O	-5.52	1.17	1.23
1	HO	77	ALA	C-O	-5.52	1.17	1.23
1	Hd	77	ALA	C-O	-5.52	1.17	1.23
1	Hs	77	ALA	C-O	-5.52	1.17	1.23
1	AC	93	PRO	C-O	-5.52	1.17	1.23
1	FD	49	LEU	C-O	-5.52	1.17	1.24
1	AR	93	PRO	C-O	-5.52	1.17	1.23
1	FS	49	LEU	C-O	-5.52	1.17	1.24
1	He	9	LEU	C-O	-5.52	1.17	1.23
1	Ht	9	LEU	C-O	-5.52	1.17	1.23
1	Fk	49	LEU	C-O	-5.52	1.17	1.24
1	C2	81	ILE	C-O	-5.52	1.17	1.24
1	Cb	81	ILE	C-O	-5.52	1.17	1.24
1	HU	9	LEU	C-O	-5.52	1.17	1.23
1	HS	77	ALA	C-O	-5.51	1.17	1.23
1	Hn	77	ALA	C-O	-5.51	1.17	1.23
3	Yi	798	ASP	CA-C	-5.51	1.45	1.52
1	HV	49	LEU	C-O	-5.51	1.17	1.24
1	Ma	50	VAL	C-O	-5.51	1.18	1.24
1	Hw	77	ALA	C-O	-5.51	1.17	1.23
1	Hk	49	LEU	C-O	-5.51	1.17	1.24
1	Ij	11	MET	C-O	-5.51	1.17	1.23
1	FR	49	LEU	C-O	-5.51	1.17	1.24
1	He	49	LEU	C-O	-5.51	1.17	1.24
1	Mm	50	VAL	C-O	-5.51	1.18	1.24
1	M1	50	VAL	C-O	-5.51	1.18	1.24
1	M9	50	VAL	C-O	-5.51	1.18	1.24
1	MO	50	VAL	C-O	-5.51	1.18	1.24
1	Me	50	VAL	C-O	-5.51	1.18	1.24
1	Of	22	GLU	C-O	-5.51	1.17	1.24
1	MV	50	VAL	C-O	-5.51	1.18	1.24
1	Ou	22	GLU	C-O	-5.51	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Mk	50	VAL	C-O	-5.51	1.18	1.24
1	HA	9	LEU	C-O	-5.51	1.17	1.23
1	H9	9	LEU	C-O	-5.51	1.17	1.23
1	HO	9	LEU	C-O	-5.51	1.17	1.23
1	Hc	57	VAL	C-O	-5.51	1.17	1.24
1	Er	37	GLY	C-O	-5.51	1.18	1.24
1	Hr	57	VAL	C-O	-5.51	1.17	1.24
1	Dj	78	ALA	C-O	-5.51	1.17	1.24
1	H5	49	LEU	C-O	-5.50	1.17	1.24
1	DK	78	ALA	C-O	-5.50	1.17	1.24
1	Cf	81	ILE	C-O	-5.50	1.17	1.24
1	HY	9	LEU	C-O	-5.50	1.17	1.23
1	KZ	28	THR	C-O	-5.50	1.17	1.24
1	Cu	81	ILE	C-O	-5.50	1.17	1.24
1	Hm	11	MET	C-O	-5.50	1.17	1.24
1	Fs	49	LEU	C-O	-5.50	1.17	1.24
1	Hr	11	MET	C-O	-5.50	1.17	1.24
3	Yj	798	ASP	CA-C	-5.50	1.45	1.52
1	HD	9	LEU	C-O	-5.50	1.17	1.23
1	H3	11	MET	C-O	-5.50	1.17	1.24
1	H4	9	LEU	C-O	-5.50	1.17	1.23
1	K4	28	THR	C-O	-5.50	1.17	1.24
1	K7	28	THR	C-O	-5.50	1.17	1.24
1	HS	9	LEU	C-O	-5.50	1.17	1.23
1	MP	50	VAL	C-O	-5.50	1.18	1.24
1	FJ	49	LEU	C-O	-5.50	1.17	1.24
1	HI	11	MET	C-O	-5.50	1.17	1.24
1	KM	28	THR	C-O	-5.50	1.17	1.24
1	Dg	78	ALA	C-O	-5.50	1.17	1.24
1	Hh	9	LEU	C-O	-5.50	1.17	1.23
1	HX	11	MET	C-O	-5.50	1.17	1.24
1	Hw	9	LEU	C-O	-5.50	1.17	1.23
1	Hn	9	LEU	C-O	-5.50	1.17	1.23
1	F8	49	LEU	C-O	-5.50	1.17	1.24
1	D1	78	ALA	C-O	-5.50	1.17	1.24
1	F3	49	LEU	C-O	-5.50	1.17	1.24
1	K2	28	THR	C-O	-5.50	1.17	1.24
1	F6	49	LEU	C-O	-5.50	1.17	1.24
1	H0	9	LEU	C-O	-5.50	1.17	1.23
1	DG	78	ALA	C-O	-5.50	1.17	1.24
1	FI	49	LEU	C-O	-5.50	1.17	1.24
1	HF	9	LEU	C-O	-5.50	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hj	9	LEU	C-O	-5.50	1.17	1.23
1	FL	49	LEU	C-O	-5.50	1.17	1.24
1	CC	81	ILE	C-O	-5.50	1.17	1.24
1	DC	78	ALA	C-O	-5.50	1.17	1.24
1	CL	81	ILE	C-O	-5.50	1.17	1.24
1	Cg	81	ILE	C-O	-5.50	1.17	1.24
1	Hh	49	LEU	C-O	-5.50	1.17	1.24
1	CX	81	ILE	C-O	-5.50	1.17	1.24
1	Hw	49	LEU	C-O	-5.50	1.17	1.24
3	Yo	798	ASP	CA-C	-5.50	1.45	1.52
1	Dp	78	ALA	C-O	-5.50	1.17	1.24
1	Oq	20	ALA	C-O	-5.50	1.17	1.24
1	H6	49	LEU	C-O	-5.50	1.17	1.24
1	Ha	49	LEU	C-O	-5.50	1.17	1.24
1	M3	50	VAL	C-O	-5.49	1.18	1.24
1	M6	50	VAL	C-O	-5.49	1.18	1.24
1	Fg	49	LEU	C-O	-5.49	1.17	1.24
1	MX	50	VAL	C-O	-5.49	1.18	1.24
1	Da	78	ALA	C-O	-5.49	1.17	1.24
1	Fv	49	LEU	C-O	-5.49	1.17	1.24
1	Ho	49	LEU	C-O	-5.49	1.17	1.24
1	Gq	72	GLY	C-O	-5.49	1.17	1.24
1	Mp	50	VAL	C-O	-5.49	1.18	1.24
1	MI	50	VAL	C-O	-5.49	1.18	1.24
1	FF	49	LEU	C-O	-5.49	1.17	1.24
1	Hk	11	MET	C-O	-5.49	1.17	1.24
1	FA	49	LEU	C-O	-5.49	1.17	1.24
1	MD	50	VAL	C-O	-5.49	1.18	1.24
1	FP	49	LEU	C-O	-5.49	1.17	1.24
1	KO	28	THR	C-O	-5.49	1.17	1.24
1	Fe	49	LEU	C-O	-5.49	1.17	1.24
1	Ob	22	GLU	C-O	-5.49	1.17	1.24
1	Ft	49	LEU	C-O	-5.49	1.17	1.24
3	Yt	798	ASP	CA-C	-5.49	1.45	1.52
1	Cr	81	ILE	C-O	-5.49	1.17	1.24
1	Oq	22	GLU	C-O	-5.49	1.17	1.24
1	H0	49	LEU	C-O	-5.49	1.17	1.24
1	HQ	49	LEU	C-O	-5.49	1.17	1.24
1	HF	49	LEU	C-O	-5.49	1.17	1.24
1	Hf	49	LEU	C-O	-5.49	1.17	1.24
1	Fc	49	LEU	C-O	-5.49	1.17	1.24
1	HU	49	LEU	C-O	-5.49	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hu	49	LEU	C-O	-5.49	1.17	1.24
1	Dp	53	GLU	C-O	-5.49	1.16	1.23
1	Fr	49	LEU	C-O	-5.49	1.17	1.24
1	Hj	49	LEU	C-O	-5.49	1.17	1.24
3	YE	798	ASP	CA-C	-5.49	1.45	1.52
1	HR	49	LEU	C-O	-5.49	1.17	1.24
1	D5	78	ALA	C-O	-5.49	1.17	1.24
1	CR	81	ILE	C-O	-5.49	1.17	1.24
1	DZ	78	ALA	C-O	-5.49	1.17	1.24
1	KW	28	THR	C-O	-5.49	1.17	1.24
1	Gd	72	GLY	C-O	-5.49	1.17	1.24
1	Kl	28	THR	C-O	-5.49	1.17	1.24
1	Gs	72	GLY	C-O	-5.49	1.17	1.24
1	MK	50	VAL	C-O	-5.49	1.18	1.24
1	C3	81	ILE	C-O	-5.48	1.17	1.24
1	C6	81	ILE	C-O	-5.48	1.17	1.24
1	CI	81	ILE	C-O	-5.48	1.17	1.24
1	Ca	81	ILE	C-O	-5.48	1.17	1.24
1	C7	81	ILE	C-O	-5.48	1.17	1.24
1	CM	81	ILE	C-O	-5.48	1.17	1.24
1	HN	11	MET	C-O	-5.48	1.17	1.24
1	Ag	93	PRO	C-O	-5.48	1.17	1.23
1	Ff	49	LEU	C-O	-5.48	1.17	1.24
1	FW	49	LEU	C-O	-5.48	1.17	1.24
1	Cq	81	ILE	C-O	-5.48	1.17	1.24
1	M4	50	VAL	C-O	-5.48	1.18	1.24
1	MJ	50	VAL	C-O	-5.48	1.18	1.24
1	Cn	81	ILE	C-O	-5.48	1.17	1.24
1	FN	49	LEU	C-O	-5.48	1.17	1.24
1	Is	11	MET	C-O	-5.48	1.17	1.23
1	HE	9	LEU	C-O	-5.48	1.17	1.23
1	M5	50	VAL	C-O	-5.48	1.18	1.24
1	M8	50	VAL	C-O	-5.48	1.18	1.24
1	HT	9	LEU	C-O	-5.48	1.17	1.23
1	MN	50	VAL	C-O	-5.48	1.18	1.24
1	Hi	9	LEU	C-O	-5.48	1.17	1.23
1	CW	81	ILE	C-O	-5.48	1.17	1.24
1	MZ	50	VAL	C-O	-5.48	1.18	1.24
1	Hx	9	LEU	C-O	-5.48	1.17	1.23
1	Hx	49	LEU	C-O	-5.48	1.17	1.24
1	Cl	81	ILE	C-O	-5.48	1.17	1.24
1	Fn	49	LEU	C-O	-5.48	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Mo	50	VAL	C-O	-5.48	1.18	1.24
1	OD	20	ALA	C-O	-5.47	1.17	1.24
1	I9	11	MET	C-O	-5.47	1.17	1.23
1	OS	20	ALA	C-O	-5.47	1.17	1.24
1	AM	93	PRO	C-O	-5.47	1.17	1.23
1	FO	19	PRO	C-O	-5.47	1.17	1.24
1	IO	11	MET	C-O	-5.47	1.17	1.23
1	HZ	49	LEU	C-O	-5.47	1.17	1.24
1	IU	11	MET	C-O	-5.47	1.17	1.23
1	Ob	20	ALA	C-O	-5.47	1.17	1.24
1	Ik	11	MET	C-O	-5.47	1.17	1.23
1	D3	78	ALA	C-O	-5.47	1.17	1.24
1	D0	78	ALA	C-O	-5.47	1.17	1.24
1	DX	78	ALA	C-O	-5.47	1.17	1.24
1	Cv	81	ILE	C-O	-5.47	1.17	1.24
1	Cp	81	ILE	C-O	-5.47	1.17	1.24
1	C1	81	ILE	C-O	-5.47	1.17	1.24
1	CG	81	ILE	C-O	-5.47	1.17	1.24
1	IW	11	MET	C-O	-5.47	1.17	1.23
1	Cm	81	ILE	C-O	-5.47	1.17	1.24
1	Il	11	MET	C-O	-5.47	1.17	1.23
1	C0	81	ILE	C-O	-5.47	1.17	1.24
1	G9	72	GLY	C-O	-5.47	1.17	1.24
1	HK	49	LEU	C-O	-5.47	1.17	1.24
1	CF	81	ILE	C-O	-5.47	1.17	1.24
1	OM	20	ALA	C-O	-5.47	1.17	1.24
1	HW	49	LEU	C-O	-5.47	1.17	1.24
1	Hl	49	LEU	C-O	-5.47	1.17	1.24
1	Hp	49	LEU	C-O	-5.47	1.17	1.24
1	OW	20	ALA	C-O	-5.47	1.17	1.24
1	G7	72	GLY	C-O	-5.47	1.17	1.24
1	GM	72	GLY	C-O	-5.47	1.17	1.24
1	Id	11	MET	C-O	-5.47	1.17	1.23
1	DE	78	ALA	C-O	-5.46	1.17	1.24
1	DT	78	ALA	C-O	-5.46	1.17	1.24
1	HX	57	VAL	C-O	-5.46	1.17	1.24
1	Dc	78	ALA	C-O	-5.46	1.17	1.24
1	Mc	50	VAL	C-O	-5.46	1.18	1.24
1	Dx	78	ALA	C-O	-5.46	1.17	1.24
1	Hm	57	VAL	C-O	-5.46	1.17	1.24
1	Dr	78	ALA	C-O	-5.46	1.17	1.24
1	Mr	50	VAL	C-O	-5.46	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	KT	28	THR	C-O	-5.46	1.17	1.24
1	MY	50	VAL	C-O	-5.46	1.18	1.24
1	Mn	50	VAL	C-O	-5.46	1.18	1.24
1	O7	20	ALA	C-O	-5.46	1.17	1.24
1	HR	11	MET	C-O	-5.46	1.17	1.24
1	IV	11	MET	C-O	-5.46	1.17	1.23
1	Ds	78	ALA	C-O	-5.46	1.17	1.24
1	Hp	11	MET	C-O	-5.46	1.17	1.24
1	AI	93	PRO	C-O	-5.46	1.17	1.23
1	Ha	11	MET	C-O	-5.46	1.17	1.24
1	FC	49	LEU	C-O	-5.46	1.17	1.24
1	HB	49	LEU	C-O	-5.46	1.17	1.24
1	KE	28	THR	C-O	-5.46	1.17	1.24
1	Al	93	PRO	C-O	-5.46	1.17	1.23
1	CA	81	ILE	C-O	-5.46	1.17	1.24
1	M2	50	VAL	C-O	-5.46	1.18	1.24
1	H6	57	VAL	C-O	-5.46	1.17	1.24
1	MH	50	VAL	C-O	-5.46	1.18	1.24
1	HL	57	VAL	C-O	-5.46	1.17	1.24
1	MW	50	VAL	C-O	-5.46	1.18	1.24
1	MU	50	VAL	C-O	-5.46	1.18	1.24
1	Ct	81	ILE	C-O	-5.46	1.17	1.24
1	Mj	50	VAL	C-O	-5.46	1.18	1.24
1	EU	19	PRO	C-O	-5.46	1.17	1.24
1	Oh	20	ALA	C-O	-5.45	1.17	1.24
1	Ex	19	PRO	C-O	-5.45	1.17	1.24
1	Ow	20	ALA	C-O	-5.45	1.17	1.24
1	GE	72	GLY	C-O	-5.45	1.17	1.24
1	GT	72	GLY	C-O	-5.45	1.17	1.24
1	Gi	72	GLY	C-O	-5.45	1.17	1.24
1	Ab	93	PRO	C-O	-5.45	1.17	1.23
1	Gd	79	HIS	C-O	-5.45	1.17	1.23
1	Gs	79	HIS	C-O	-5.45	1.17	1.23
1	GD	72	GLY	C-O	-5.45	1.17	1.24
1	D9	78	ALA	C-O	-5.45	1.17	1.24
1	H8	57	VAL	C-O	-5.45	1.17	1.24
1	HR	57	VAL	C-O	-5.45	1.17	1.24
1	DO	78	ALA	C-O	-5.45	1.17	1.24
1	HN	57	VAL	C-O	-5.45	1.17	1.24
1	OM	22	GLU	C-O	-5.45	1.17	1.24
1	Gh	72	GLY	C-O	-5.45	1.17	1.24
1	Dd	78	ALA	C-O	-5.45	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Gb	72	GLY	C-O	-5.45	1.17	1.24
1	Gw	72	GLY	C-O	-5.45	1.17	1.24
1	Mt	50	VAL	C-O	-5.45	1.18	1.24
1	Hk	57	VAL	C-O	-5.45	1.17	1.24
1	I5	11	MET	C-O	-5.45	1.17	1.23
1	IK	11	MET	C-O	-5.45	1.17	1.23
1	Ed	19	PRO	C-O	-5.45	1.17	1.24
1	Kb	28	THR	C-O	-5.45	1.17	1.24
1	Io	11	MET	C-O	-5.45	1.17	1.23
1	ID	11	MET	C-O	-5.45	1.17	1.23
1	IS	11	MET	C-O	-5.45	1.17	1.23
3	YT	798	ASP	CA-C	-5.45	1.46	1.52
1	Ce	81	ILE	C-O	-5.45	1.17	1.24
1	Ih	11	MET	C-O	-5.45	1.17	1.23
1	Fu	49	LEU	C-O	-5.45	1.17	1.24
1	Iw	11	MET	C-O	-5.45	1.17	1.23
1	DQ	78	ALA	C-O	-5.44	1.17	1.24
1	HL	49	LEU	C-O	-5.44	1.17	1.24
1	HE	49	LEU	C-O	-5.44	1.17	1.24
1	KA	28	THR	C-O	-5.44	1.17	1.24
1	O2	20	ALA	C-O	-5.44	1.17	1.24
1	HT	49	LEU	C-O	-5.44	1.17	1.24
1	KP	28	THR	C-O	-5.44	1.17	1.24
1	OH	20	ALA	C-O	-5.44	1.17	1.24
1	Hi	49	LEU	C-O	-5.44	1.17	1.24
1	Ke	28	THR	C-O	-5.44	1.17	1.24
1	Dm	78	ALA	C-O	-5.44	1.17	1.24
1	Ol	20	ALA	C-O	-5.44	1.17	1.24
1	DI	78	ALA	C-O	-5.44	1.17	1.24
1	O4	20	ALA	C-O	-5.44	1.17	1.24
1	OJ	20	ALA	C-O	-5.44	1.17	1.24
1	GV	72	GLY	C-O	-5.44	1.17	1.24
1	OY	20	ALA	C-O	-5.44	1.17	1.24
1	Gn	72	GLY	C-O	-5.44	1.17	1.24
1	On	20	ALA	C-O	-5.44	1.17	1.24
1	Es	19	PRO	C-O	-5.44	1.17	1.24
1	Dh	56	ALA	N-CA	-5.44	1.39	1.46
1	IB	11	MET	C-O	-5.44	1.17	1.23
1	OB	22	GLU	C-O	-5.44	1.17	1.24
1	O9	20	ALA	C-O	-5.44	1.17	1.24
1	OQ	22	GLU	C-O	-5.44	1.17	1.24
1	OO	20	ALA	C-O	-5.44	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	If	11	MET	C-O	-5.44	1.17	1.23
1	Iu	11	MET	C-O	-5.44	1.17	1.23
1	Ok	20	ALA	C-O	-5.44	1.17	1.24
1	Aj	93	PRO	C-O	-5.44	1.17	1.23
1	I2	11	MET	C-O	-5.44	1.17	1.23
1	I7	11	MET	C-O	-5.44	1.17	1.23
1	IH	11	MET	C-O	-5.44	1.17	1.23
1	IM	11	MET	C-O	-5.44	1.17	1.23
1	Ei	19	PRO	C-O	-5.44	1.17	1.24
1	Ib	11	MET	C-O	-5.44	1.17	1.23
1	O0	20	ALA	C-O	-5.44	1.17	1.24
1	IF	11	MET	C-O	-5.44	1.17	1.23
1	OF	20	ALA	C-O	-5.44	1.17	1.24
1	OU	20	ALA	C-O	-5.44	1.17	1.24
1	Oj	20	ALA	C-O	-5.44	1.17	1.24
1	AG	93	PRO	C-O	-5.43	1.17	1.23
1	Ff	26	ALA	C-O	-5.43	1.17	1.24
1	DV	78	ALA	C-O	-5.43	1.17	1.24
1	Ac	93	PRO	C-O	-5.43	1.17	1.23
1	Ak	93	PRO	C-O	-5.43	1.17	1.23
1	Bo	13	GLU	C-O	-5.43	1.17	1.23
1	Ar	93	PRO	C-O	-5.43	1.17	1.23
1	Op	22	GLU	C-O	-5.43	1.17	1.24
1	MB	50	VAL	C-O	-5.43	1.18	1.24
1	M0	50	VAL	C-O	-5.43	1.18	1.24
1	KH	28	THR	C-O	-5.43	1.17	1.24
1	Mf	50	VAL	C-O	-5.43	1.18	1.24
1	Of	20	ALA	C-O	-5.43	1.17	1.24
1	Mu	50	VAL	C-O	-5.43	1.18	1.24
1	Ou	20	ALA	C-O	-5.43	1.17	1.24
1	MF	50	VAL	C-O	-5.43	1.18	1.24
1	GS	72	GLY	C-O	-5.43	1.17	1.24
1	IE	11	MET	C-O	-5.43	1.17	1.23
1	IT	11	MET	C-O	-5.43	1.17	1.23
1	Ii	11	MET	C-O	-5.43	1.17	1.23
1	Dv	78	ALA	C-O	-5.43	1.17	1.24
1	Ix	11	MET	C-O	-5.43	1.17	1.23
1	E0	19	PRO	C-O	-5.43	1.17	1.24
1	El	19	PRO	C-O	-5.43	1.17	1.24
1	A7	93	PRO	C-O	-5.43	1.17	1.23
1	O7	22	GLU	C-O	-5.43	1.17	1.24
1	AY	93	PRO	C-O	-5.43	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ej	19	PRO	C-O	-5.43	1.17	1.24
1	HC	11	MET	C-O	-5.42	1.17	1.24
1	MC	50	VAL	C-O	-5.42	1.18	1.24
1	A3	93	PRO	C-O	-5.42	1.17	1.23
1	E9	19	PRO	C-O	-5.42	1.17	1.24
1	EO	19	PRO	C-O	-5.42	1.17	1.24
1	Ic	11	MET	C-O	-5.42	1.17	1.23
1	Av	93	PRO	C-O	-5.42	1.17	1.23
1	Hv	11	MET	C-O	-5.42	1.17	1.24
1	Ko	28	THR	C-O	-5.42	1.17	1.24
1	Ir	11	MET	C-O	-5.42	1.17	1.23
1	CB	81	ILE	C-O	-5.42	1.17	1.24
1	G4	72	GLY	C-O	-5.42	1.17	1.24
1	GJ	72	GLY	C-O	-5.42	1.17	1.24
1	GO	72	GLY	C-O	-5.42	1.17	1.24
1	GY	72	GLY	C-O	-5.42	1.17	1.24
1	Hg	11	MET	C-O	-5.42	1.17	1.24
1	Bl	13	GLU	C-O	-5.42	1.17	1.23
1	A8	93	PRO	C-O	-5.42	1.17	1.23
1	D8	78	ALA	C-O	-5.42	1.17	1.24
1	AN	93	PRO	C-O	-5.42	1.17	1.23
1	IZ	11	MET	C-O	-5.42	1.17	1.23
1	Eq	19	PRO	C-O	-5.42	1.17	1.24
1	Hg	57	VAL	C-O	-5.42	1.17	1.24
1	Hv	57	VAL	C-O	-5.42	1.17	1.24
1	EE	19	PRO	C-O	-5.42	1.17	1.24
1	DS	56	ALA	CA-CB	-5.42	1.44	1.53
1	A1	93	PRO	C-O	-5.41	1.17	1.23
1	H3	57	VAL	C-O	-5.41	1.17	1.24
1	AV	93	PRO	C-O	-5.41	1.17	1.23
1	I3	11	MET	C-O	-5.41	1.17	1.23
1	B0	13	GLU	C-O	-5.41	1.17	1.23
1	II	11	MET	C-O	-5.41	1.17	1.23
1	BF	13	GLU	C-O	-5.41	1.17	1.23
1	Ai	93	PRO	C-O	-5.41	1.17	1.23
1	BU	13	GLU	C-O	-5.41	1.17	1.23
1	Ax	93	PRO	C-O	-5.41	1.17	1.23
1	Hl	57	VAL	C-O	-5.41	1.17	1.24
1	Bj	13	GLU	C-O	-5.41	1.17	1.23
1	CQ	81	ILE	C-O	-5.41	1.18	1.24
1	IJ	11	MET	C-O	-5.41	1.17	1.23
1	BZ	13	GLU	C-O	-5.41	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Du	78	ALA	C-O	-5.41	1.17	1.24
1	Df	78	ALA	C-O	-5.41	1.17	1.24
1	OB	20	ALA	C-O	-5.41	1.17	1.24
1	OQ	20	ALA	C-O	-5.41	1.17	1.24
1	Fh	26	ALA	C-O	-5.41	1.17	1.24
1	HC	57	VAL	C-O	-5.41	1.17	1.24
1	F2	20	ALA	C-O	-5.41	1.17	1.24
1	O5	20	ALA	C-O	-5.41	1.17	1.24
1	OK	20	ALA	C-O	-5.41	1.17	1.24
1	Me	79	HIS	C-O	-5.41	1.17	1.23
1	Mh	50	VAL	C-O	-5.41	1.18	1.24
1	MV	79	HIS	C-O	-5.41	1.17	1.23
1	OZ	20	ALA	C-O	-5.41	1.17	1.24
1	Ha	57	VAL	C-O	-5.41	1.17	1.24
1	Mw	50	VAL	C-O	-5.41	1.18	1.24
1	Gk	72	GLY	C-O	-5.41	1.17	1.24
1	Mk	79	HIS	C-O	-5.41	1.17	1.23
1	Oo	20	ALA	C-O	-5.41	1.17	1.24
1	Hp	57	VAL	C-O	-5.41	1.17	1.24
1	HA	57	VAL	C-O	-5.40	1.17	1.24
1	H1	57	VAL	C-O	-5.40	1.17	1.24
1	I0	11	MET	C-O	-5.40	1.17	1.23
1	HP	57	VAL	C-O	-5.40	1.17	1.24
1	HG	57	VAL	C-O	-5.40	1.17	1.24
1	MM	79	HIS	C-O	-5.40	1.17	1.23
1	HV	57	VAL	C-O	-5.40	1.17	1.24
1	Ht	57	VAL	C-O	-5.40	1.17	1.24
1	Jr	23	ALA	C-O	-5.40	1.17	1.24
1	OD	22	GLU	C-O	-5.40	1.17	1.24
1	IQ	11	MET	C-O	-5.40	1.17	1.23
1	OS	22	GLU	C-O	-5.40	1.17	1.24
1	Mf	79	HIS	C-O	-5.40	1.17	1.23
1	Iw	34	ARG	C-O	-5.40	1.17	1.24
1	AA	93	PRO	C-O	-5.40	1.17	1.23
1	AP	93	PRO	C-O	-5.40	1.17	1.23
1	OO	22	GLU	C-O	-5.40	1.17	1.24
1	Ae	93	PRO	C-O	-5.40	1.17	1.23
1	Di	78	ALA	C-O	-5.40	1.17	1.24
1	FX	19	PRO	C-O	-5.40	1.17	1.24
1	Od	20	ALA	C-O	-5.40	1.17	1.24
1	At	93	PRO	C-O	-5.40	1.17	1.23
1	Fm	19	PRO	C-O	-5.40	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Bp	13	GLU	C-O	-5.40	1.17	1.23
1	F9	19	PRO	C-O	-5.40	1.17	1.24
1	IR	11	MET	C-O	-5.40	1.17	1.23
1	GK	72	GLY	C-O	-5.40	1.17	1.24
1	OC	22	GLU	C-O	-5.40	1.17	1.24
1	G5	72	GLY	C-O	-5.40	1.17	1.24
1	MS	50	VAL	C-O	-5.40	1.18	1.24
1	OR	22	GLU	C-O	-5.40	1.17	1.24
1	CH	81	ILE	C-O	-5.40	1.18	1.24
1	FH	19	PRO	C-O	-5.40	1.17	1.24
1	GZ	72	GLY	C-O	-5.40	1.17	1.24
1	Fw	26	ALA	C-O	-5.40	1.17	1.24
1	Js	23	ALA	C-O	-5.40	1.17	1.24
1	M7	79	HIS	C-O	-5.40	1.17	1.23
1	IX	11	MET	C-O	-5.40	1.17	1.23
1	Mb	79	HIS	C-O	-5.40	1.17	1.23
1	Fu	19	PRO	C-O	-5.40	1.17	1.24
1	Mq	79	HIS	C-O	-5.40	1.17	1.23
1	EA	19	PRO	C-O	-5.39	1.17	1.24
1	EP	19	PRO	C-O	-5.39	1.17	1.24
1	IG	11	MET	C-O	-5.39	1.17	1.23
1	Ee	19	PRO	C-O	-5.39	1.17	1.24
1	OY	22	GLU	C-O	-5.39	1.17	1.24
1	Gx	72	GLY	C-O	-5.39	1.17	1.24
1	On	22	GLU	C-O	-5.39	1.17	1.24
1	FC	19	PRO	C-O	-5.39	1.17	1.24
1	IA	11	MET	C-O	-5.39	1.17	1.23
1	F1	20	ALA	C-O	-5.39	1.17	1.24
1	I8	11	MET	C-O	-5.39	1.17	1.23
1	FR	19	PRO	C-O	-5.39	1.17	1.24
1	IP	11	MET	C-O	-5.39	1.17	1.23
1	IN	11	MET	C-O	-5.39	1.17	1.23
1	Fg	19	PRO	C-O	-5.39	1.17	1.24
1	Ie	11	MET	C-O	-5.39	1.17	1.23
1	BV	13	GLU	C-O	-5.39	1.17	1.23
1	Bd	13	GLU	C-O	-5.39	1.17	1.23
1	It	11	MET	C-O	-5.39	1.17	1.23
1	Bk	13	GLU	C-O	-5.39	1.17	1.23
1	Fk	20	ALA	C-O	-5.39	1.17	1.24
1	Ol	22	GLU	C-O	-5.39	1.17	1.24
1	Bs	13	GLU	C-O	-5.39	1.17	1.23
1	Fr	19	PRO	C-O	-5.39	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DR	78	ALA	C-O	-5.39	1.17	1.24
1	GJ	79	HIS	C-O	-5.39	1.17	1.23
1	Mg	50	VAL	C-O	-5.39	1.18	1.24
1	MW	79	HIS	C-O	-5.39	1.17	1.23
1	Jc	23	ALA	C-O	-5.39	1.17	1.24
1	Ml	79	HIS	C-O	-5.39	1.17	1.23
1	Fp	19	PRO	C-O	-5.39	1.17	1.24
1	I1	11	MET	C-O	-5.39	1.17	1.23
1	MQ	50	VAL	C-O	-5.39	1.18	1.24
1	MA	79	HIS	C-O	-5.39	1.17	1.23
1	M7	50	VAL	C-O	-5.39	1.18	1.24
1	MP	79	HIS	C-O	-5.39	1.17	1.23
1	BK	13	GLU	C-O	-5.39	1.17	1.23
1	MM	50	VAL	C-O	-5.39	1.18	1.24
1	CV	81	ILE	C-O	-5.39	1.18	1.24
1	Mt	79	HIS	C-O	-5.39	1.17	1.23
1	Ck	81	ILE	C-O	-5.39	1.18	1.24
3	Yq	776	ALA	C-O	-5.39	1.17	1.24
1	AH	93	PRO	C-O	-5.38	1.17	1.23
1	AL	79	HIS	C-O	-5.38	1.17	1.23
1	Af	48	VAL	C-O	-5.38	1.18	1.24
1	Ih	34	ARG	C-O	-5.38	1.17	1.24
1	AW	93	PRO	C-O	-5.38	1.17	1.23
1	Au	48	VAL	C-O	-5.38	1.18	1.24
1	Dk	78	ALA	C-O	-5.38	1.17	1.24
1	MB	79	HIS	C-O	-5.38	1.17	1.23
1	A2	93	PRO	C-O	-5.38	1.17	1.23
1	MQ	79	HIS	C-O	-5.38	1.17	1.23
1	EZ	19	PRO	C-O	-5.38	1.17	1.24
1	Mu	79	HIS	C-O	-5.38	1.17	1.23
1	Eo	19	PRO	C-O	-5.38	1.17	1.24
1	Iq	11	MET	C-O	-5.38	1.17	1.23
1	I0	48	VAL	C-O	-5.38	1.18	1.24
1	ET	19	PRO	C-O	-5.38	1.17	1.24
1	FI	19	PRO	C-O	-5.38	1.17	1.24
1	Mh	79	HIS	C-O	-5.38	1.17	1.23
1	AZ	48	VAL	C-O	-5.38	1.18	1.24
1	GY	79	HIS	C-O	-5.38	1.17	1.23
1	MZ	79	HIS	C-O	-5.38	1.17	1.23
1	Ao	48	VAL	C-O	-5.38	1.18	1.24
1	Mn	79	HIS	C-O	-5.38	1.17	1.23
1	AB	93	PRO	C-O	-5.38	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	MD	79	HIS	C-O	-5.38	1.17	1.23
1	I6	11	MET	C-O	-5.38	1.17	1.23
1	AQ	93	PRO	C-O	-5.38	1.17	1.23
1	AX	79	HIS	C-O	-5.38	1.17	1.23
1	Ia	11	MET	C-O	-5.38	1.17	1.23
1	Am	79	HIS	C-O	-5.38	1.17	1.23
1	Ip	11	MET	C-O	-5.38	1.17	1.23
1	M6	79	HIS	C-O	-5.38	1.17	1.23
1	AT	93	PRO	C-O	-5.38	1.17	1.23
1	ML	79	HIS	C-O	-5.38	1.17	1.23
1	Aa	93	PRO	C-O	-5.38	1.17	1.23
1	Ma	79	HIS	C-O	-5.38	1.17	1.23
1	Mc	79	HIS	C-O	-5.38	1.17	1.23
1	Fw	19	PRO	C-O	-5.38	1.17	1.24
1	Ek	19	PRO	C-O	-5.38	1.17	1.24
1	Mp	79	HIS	C-O	-5.38	1.17	1.23
1	FB	26	ALA	C-O	-5.38	1.18	1.24
1	FC	20	ALA	C-O	-5.38	1.17	1.24
1	AP	79	HIS	C-O	-5.38	1.17	1.23
1	FQ	26	ALA	C-O	-5.38	1.18	1.24
1	Ag	46	VAL	C-O	-5.38	1.18	1.24
1	Cc	11	MET	C-O	-5.38	1.16	1.23
1	Av	46	VAL	C-O	-5.38	1.18	1.24
1	Fu	26	ALA	C-O	-5.38	1.18	1.24
1	Dq	55	GLY	C-O	5.38	1.30	1.23
1	IR	34	ARG	C-O	-5.38	1.17	1.24
1	Oi	20	ALA	C-O	-5.38	1.17	1.24
1	Ox	20	ALA	C-O	-5.38	1.17	1.24
1	ED	19	PRO	C-O	-5.37	1.17	1.24
1	O1	20	ALA	C-O	-5.37	1.17	1.24
1	G9	79	HIS	C-O	-5.37	1.17	1.23
1	ES	19	PRO	C-O	-5.37	1.17	1.24
1	OG	20	ALA	C-O	-5.37	1.17	1.24
1	GO	79	HIS	C-O	-5.37	1.17	1.23
1	Eh	19	PRO	C-O	-5.37	1.17	1.24
1	OV	20	ALA	C-O	-5.37	1.17	1.24
1	Ew	19	PRO	C-O	-5.37	1.17	1.24
1	Mw	79	HIS	C-O	-5.37	1.17	1.23
1	Os	22	GLU	C-O	-5.37	1.18	1.24
1	O4	22	GLU	C-O	-5.37	1.18	1.24
1	A6	93	PRO	C-O	-5.37	1.17	1.23
1	MS	79	HIS	C-O	-5.37	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	HI	57	VAL	C-O	-5.37	1.17	1.24
1	OJ	22	GLU	C-O	-5.37	1.18	1.24
1	Ab	79	HIS	C-O	-5.37	1.17	1.23
1	Mv	50	VAL	C-O	-5.37	1.18	1.24
1	Am	20	ALA	C-O	-5.37	1.17	1.24
1	Iq	34	ARG	C-O	-5.37	1.17	1.24
1	Fq	19	PRO	C-O	-5.37	1.17	1.24
1	HB	57	VAL	C-O	-5.37	1.17	1.24
1	M2	79	HIS	C-O	-5.37	1.17	1.23
1	AS	48	VAL	C-O	-5.37	1.18	1.24
1	HQ	57	VAL	C-O	-5.37	1.17	1.24
1	Ae	48	VAL	C-O	-5.37	1.18	1.24
1	AZ	93	PRO	C-O	-5.37	1.17	1.23
1	At	48	VAL	C-O	-5.37	1.18	1.24
1	Hu	57	VAL	C-O	-5.37	1.17	1.24
1	Ox	22	GLU	C-O	-5.37	1.18	1.24
1	Ak	48	VAL	C-O	-5.37	1.18	1.24
1	Ao	93	PRO	C-O	-5.37	1.17	1.23
1	FD	19	PRO	C-O	-5.37	1.17	1.24
1	E4	19	PRO	C-O	-5.37	1.17	1.24
1	E7	19	PRO	C-O	-5.37	1.17	1.24
1	F9	20	ALA	C-O	-5.37	1.17	1.24
1	FS	19	PRO	C-O	-5.37	1.17	1.24
1	EJ	19	PRO	C-O	-5.37	1.17	1.24
1	FG	20	ALA	C-O	-5.37	1.17	1.24
1	EM	19	PRO	C-O	-5.37	1.17	1.24
1	FO	20	ALA	C-O	-5.37	1.17	1.24
1	Ad	48	VAL	C-O	-5.37	1.18	1.24
1	Eb	19	PRO	C-O	-5.37	1.17	1.24
1	Fd	20	ALA	C-O	-5.37	1.17	1.24
1	Cr	11	MET	C-O	-5.37	1.16	1.23
1	Fs	19	PRO	C-O	-5.37	1.17	1.24
1	O2	22	GLU	C-O	-5.37	1.18	1.24
1	OH	22	GLU	C-O	-5.37	1.18	1.24
1	Be	13	GLU	C-O	-5.37	1.17	1.23
1	BW	13	GLU	C-O	-5.37	1.17	1.23
1	OE	22	GLU	C-O	-5.37	1.18	1.24
1	M1	79	HIS	C-O	-5.37	1.17	1.23
1	A0	93	PRO	C-O	-5.37	1.17	1.23
1	A6	46	VAL	C-O	-5.37	1.18	1.24
1	AR	48	VAL	C-O	-5.37	1.18	1.24
1	OT	22	GLU	C-O	-5.37	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Mi	79	HIS	C-O	-5.37	1.17	1.23
1	Oi	22	GLU	C-O	-5.37	1.18	1.24
1	OZ	22	GLU	C-O	-5.37	1.18	1.24
1	AU	93	PRO	C-O	-5.37	1.17	1.23
1	Mx	79	HIS	C-O	-5.37	1.17	1.23
1	An	93	PRO	C-O	-5.37	1.17	1.23
1	Oo	22	GLU	C-O	-5.37	1.18	1.24
1	M5	79	HIS	C-O	-5.36	1.17	1.23
1	AL	48	VAL	C-O	-5.36	1.18	1.24
1	EV	19	PRO	C-O	-5.36	1.17	1.24
1	Gn	79	HIS	C-O	-5.36	1.17	1.23
1	MK	79	HIS	C-O	-5.36	1.17	1.23
1	BE	13	GLU	C-O	-5.36	1.17	1.23
1	B5	13	GLU	C-O	-5.36	1.17	1.23
1	E5	19	PRO	C-O	-5.36	1.17	1.24
1	G1	72	GLY	C-O	-5.36	1.17	1.24
1	BT	13	GLU	C-O	-5.36	1.17	1.23
1	AJ	48	VAL	C-O	-5.36	1.18	1.24
1	EK	19	PRO	C-O	-5.36	1.17	1.24
1	GG	72	GLY	C-O	-5.36	1.17	1.24
1	Aw	48	VAL	C-O	-5.36	1.18	1.24
1	Hx	57	VAL	C-O	-5.36	1.17	1.24
1	Im	11	MET	C-O	-5.36	1.17	1.23
1	B8	13	GLU	C-O	-5.36	1.17	1.23
1	F8	20	ALA	C-O	-5.36	1.17	1.24
1	FI	26	ALA	C-O	-5.36	1.18	1.24
1	JX	23	ALA	C-O	-5.36	1.17	1.24
1	Bc	13	GLU	C-O	-5.36	1.17	1.23
1	Fd	19	PRO	C-O	-5.36	1.17	1.24
1	Fn	26	ALA	C-O	-5.36	1.18	1.24
1	Go	79	HIS	C-O	-5.36	1.17	1.23
1	Br	13	GLU	C-O	-5.36	1.17	1.23
1	J3	23	ALA	C-O	-5.36	1.17	1.24
1	FL	26	ALA	C-O	-5.36	1.18	1.24
1	FY	26	ALA	C-O	-5.36	1.18	1.24
1	JI	23	ALA	C-O	-5.36	1.17	1.24
1	Jm	23	ALA	C-O	-5.36	1.17	1.24
1	H5	57	VAL	C-O	-5.36	1.17	1.24
1	H9	57	VAL	C-O	-5.36	1.18	1.24
1	HK	57	VAL	C-O	-5.36	1.17	1.24
1	HO	57	VAL	C-O	-5.36	1.18	1.24
1	HZ	57	VAL	C-O	-5.36	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ho	57	VAL	C-O	-5.36	1.17	1.24
1	FD	26	ALA	C-O	-5.36	1.18	1.24
1	I4	11	MET	C-O	-5.36	1.17	1.23
1	F7	26	ALA	C-O	-5.36	1.18	1.24
1	O6	20	ALA	C-O	-5.36	1.17	1.24
1	FS	26	ALA	C-O	-5.36	1.18	1.24
1	FM	26	ALA	C-O	-5.36	1.18	1.24
1	Af	20	ALA	C-O	-5.36	1.17	1.24
1	He	57	VAL	C-O	-5.36	1.18	1.24
1	Og	20	ALA	C-O	-5.36	1.17	1.24
1	Cv	11	MET	C-O	-5.36	1.16	1.23
1	Et	19	PRO	C-O	-5.36	1.17	1.24
1	FE	19	PRO	C-O	-5.36	1.17	1.24
1	OE	20	ALA	C-O	-5.36	1.17	1.24
1	FT	19	PRO	C-O	-5.36	1.17	1.24
1	OT	20	ALA	C-O	-5.36	1.17	1.24
1	Oe	20	ALA	C-O	-5.36	1.17	1.24
1	EW	19	PRO	C-O	-5.36	1.17	1.24
1	Ib	34	ARG	C-O	-5.36	1.17	1.24
1	Ix	48	VAL	C-O	-5.36	1.18	1.24
1	Ot	20	ALA	C-O	-5.36	1.17	1.24
1	Im	34	ARG	C-O	-5.36	1.17	1.24
1	Os	20	ALA	C-O	-5.36	1.17	1.24
1	AE	93	PRO	C-O	-5.35	1.17	1.23
1	OA	22	GLU	C-O	-5.35	1.18	1.24
1	A5	93	PRO	C-O	-5.35	1.17	1.23
1	O3	20	ALA	C-O	-5.35	1.17	1.24
1	AK	93	PRO	C-O	-5.35	1.17	1.23
1	OX	20	ALA	C-O	-5.35	1.17	1.24
1	Od	22	GLU	C-O	-5.35	1.18	1.24
1	Ot	22	GLU	C-O	-5.35	1.18	1.24
1	Ov	20	ALA	C-O	-5.35	1.17	1.24
1	OI	20	ALA	C-O	-5.35	1.17	1.24
1	AB	20	ALA	C-O	-5.35	1.17	1.24
1	EB	19	PRO	C-O	-5.35	1.17	1.24
1	E2	19	PRO	C-O	-5.35	1.17	1.24
1	F7	19	PRO	C-O	-5.35	1.17	1.24
1	AQ	20	ALA	C-O	-5.35	1.17	1.24
1	AS	93	PRO	C-O	-5.35	1.17	1.23
1	EQ	19	PRO	C-O	-5.35	1.17	1.24
1	GR	72	GLY	C-O	-5.35	1.17	1.24
1	AH	20	ALA	C-O	-5.35	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AI	46	VAL	C-O	-5.35	1.18	1.24
1	EH	19	PRO	C-O	-5.35	1.17	1.24
1	Af	93	PRO	C-O	-5.35	1.17	1.23
1	Ef	19	PRO	C-O	-5.35	1.17	1.24
1	Ab	48	VAL	C-O	-5.35	1.18	1.24
1	Fb	19	PRO	C-O	-5.35	1.17	1.24
1	Au	20	ALA	C-O	-5.35	1.17	1.24
1	Eu	19	PRO	C-O	-5.35	1.17	1.24
1	Al	20	ALA	C-O	-5.35	1.17	1.24
1	Oj	23	ALA	C-O	-5.35	1.18	1.24
1	AC	79	HIS	C-O	-5.35	1.17	1.23
1	O3	22	GLU	C-O	-5.35	1.18	1.24
1	AR	79	HIS	C-O	-5.35	1.17	1.23
1	OX	22	GLU	C-O	-5.35	1.18	1.24
1	Oa	22	GLU	C-O	-5.35	1.18	1.24
1	OI	22	GLU	C-O	-5.35	1.18	1.24
1	Om	20	ALA	C-O	-5.35	1.17	1.24
1	AA	48	VAL	C-O	-5.35	1.18	1.24
1	FA	20	ALA	C-O	-5.35	1.17	1.24
1	F5	19	PRO	C-O	-5.35	1.17	1.24
1	J8	23	ALA	C-O	-5.35	1.17	1.24
1	AP	48	VAL	C-O	-5.35	1.18	1.24
1	FP	20	ALA	C-O	-5.35	1.17	1.24
1	CI	11	MET	C-O	-5.35	1.16	1.23
1	FK	19	PRO	C-O	-5.35	1.17	1.24
1	JN	23	ALA	C-O	-5.35	1.17	1.24
1	Fi	19	PRO	C-O	-5.35	1.17	1.24
1	Oh	22	GLU	C-O	-5.35	1.18	1.24
1	FZ	19	PRO	C-O	-5.35	1.17	1.24
1	Bb	13	GLU	C-O	-5.35	1.17	1.23
1	At	20	ALA	C-O	-5.35	1.17	1.24
1	Ow	22	GLU	C-O	-5.35	1.18	1.24
1	EI	19	PRO	C-O	-5.35	1.17	1.24
1	AD	48	VAL	C-O	-5.35	1.18	1.24
1	A7	48	VAL	C-O	-5.35	1.18	1.24
1	AM	48	VAL	C-O	-5.35	1.18	1.24
1	Ag	79	HIS	C-O	-5.35	1.17	1.23
1	Ah	48	VAL	C-O	-5.35	1.18	1.24
1	IY	11	MET	C-O	-5.35	1.17	1.23
1	Av	79	HIS	C-O	-5.35	1.17	1.23
1	In	11	MET	C-O	-5.35	1.17	1.23
1	Aq	48	VAL	C-O	-5.35	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hs	57	VAL	C-O	-5.35	1.18	1.24
1	GD	79	HIS	C-O	-5.35	1.17	1.23
1	IC	11	MET	C-O	-5.35	1.17	1.23
1	G4	79	HIS	C-O	-5.35	1.17	1.23
1	A8	79	HIS	C-O	-5.35	1.17	1.23
1	O8	20	ALA	C-O	-5.35	1.17	1.24
1	AN	79	HIS	C-O	-5.35	1.17	1.23
1	GM	79	HIS	C-O	-5.35	1.17	1.23
1	ON	20	ALA	C-O	-5.35	1.17	1.24
1	Gh	79	HIS	C-O	-5.35	1.17	1.23
1	Ac	79	HIS	C-O	-5.35	1.17	1.23
1	Gb	79	HIS	C-O	-5.35	1.17	1.23
1	Iv	11	MET	C-O	-5.35	1.17	1.23
1	Gq	79	HIS	C-O	-5.35	1.17	1.23
1	A4	48	VAL	C-O	-5.34	1.18	1.24
1	A8	48	VAL	C-O	-5.34	1.18	1.24
1	FJ	19	PRO	C-O	-5.34	1.17	1.24
1	Ff	19	PRO	C-O	-5.34	1.17	1.24
1	Ac	48	VAL	C-O	-5.34	1.18	1.24
1	Ad	93	PRO	C-O	-5.34	1.17	1.23
1	Ar	48	VAL	C-O	-5.34	1.18	1.24
1	G8	72	GLY	C-O	-5.34	1.17	1.24
1	CM	11	MET	C-O	-5.34	1.16	1.23
1	GN	72	GLY	C-O	-5.34	1.17	1.24
1	Gc	72	GLY	C-O	-5.34	1.17	1.24
1	Ak	79	HIS	C-O	-5.34	1.17	1.23
1	Gr	72	GLY	C-O	-5.34	1.17	1.24
1	E1	19	PRO	C-O	-5.34	1.17	1.24
1	H4	57	VAL	C-O	-5.34	1.18	1.24
1	A0	79	HIS	C-O	-5.34	1.17	1.23
1	A7	79	HIS	C-O	-5.34	1.17	1.23
1	B7	13	GLU	C-O	-5.34	1.17	1.23
1	F6	19	PRO	C-O	-5.34	1.17	1.24
1	F9	26	ALA	C-O	-5.34	1.18	1.24
1	H7	57	VAL	C-O	-5.34	1.18	1.24
1	AH	79	HIS	C-O	-5.34	1.17	1.23
1	HJ	57	VAL	C-O	-5.34	1.18	1.24
1	AF	79	HIS	C-O	-5.34	1.17	1.23
1	AM	79	HIS	C-O	-5.34	1.17	1.23
1	BM	13	GLU	C-O	-5.34	1.17	1.23
1	HM	57	VAL	C-O	-5.34	1.18	1.24
1	AU	79	HIS	C-O	-5.34	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Aa	46	VAL	C-O	-5.34	1.18	1.24
1	Fa	19	PRO	C-O	-5.34	1.17	1.24
1	Fd	26	ALA	C-O	-5.34	1.18	1.24
1	Hb	57	VAL	C-O	-5.34	1.18	1.24
1	Ax	48	VAL	C-O	-5.34	1.18	1.24
1	Go	72	GLY	C-O	-5.34	1.17	1.24
1	Ml	50	VAL	C-O	-5.34	1.18	1.24
1	Aj	79	HIS	C-O	-5.34	1.17	1.23
1	Aq	79	HIS	C-O	-5.34	1.17	1.23
1	Aq	93	PRO	C-O	-5.34	1.17	1.23
1	Bq	13	GLU	C-O	-5.34	1.17	1.23
1	Fs	26	ALA	C-O	-5.34	1.18	1.24
1	Hq	57	VAL	C-O	-5.34	1.18	1.24
1	FL	19	PRO	C-O	-5.34	1.17	1.24
1	HE	57	VAL	C-O	-5.34	1.18	1.24
1	A2	79	HIS	C-O	-5.34	1.17	1.23
1	B3	13	GLU	C-O	-5.34	1.17	1.23
1	C8	11	MET	C-O	-5.34	1.16	1.23
3	Y9	776	ALA	C-O	-5.34	1.17	1.24
1	HT	57	VAL	C-O	-5.34	1.18	1.24
1	MR	50	VAL	C-O	-5.34	1.18	1.24
3	YS	776	ALA	C-O	-5.34	1.17	1.24
1	BI	13	GLU	C-O	-5.34	1.17	1.23
1	CN	11	MET	C-O	-5.34	1.16	1.23
1	FO	26	ALA	C-O	-5.34	1.18	1.24
3	YO	776	ALA	C-O	-5.34	1.17	1.24
1	Hi	57	VAL	C-O	-5.34	1.18	1.24
1	Og	22	GLU	C-O	-5.34	1.18	1.24
1	BX	13	GLU	C-O	-5.34	1.17	1.23
1	Em	19	PRO	C-O	-5.34	1.17	1.24
1	Om	22	GLU	C-O	-5.34	1.18	1.24
1	FA	26	ALA	C-O	-5.34	1.18	1.24
1	F1	26	ALA	C-O	-5.34	1.18	1.24
1	FP	26	ALA	C-O	-5.34	1.18	1.24
1	FG	26	ALA	C-O	-5.34	1.18	1.24
1	FV	26	ALA	C-O	-5.34	1.18	1.24
1	Fk	26	ALA	C-O	-5.34	1.18	1.24
1	OC	23	ALA	C-O	-5.34	1.18	1.24
1	B1	13	GLU	C-O	-5.34	1.17	1.23
1	B9	13	GLU	C-O	-5.34	1.17	1.23
1	J7	23	ALA	C-O	-5.34	1.17	1.24
1	MT	79	HIS	C-O	-5.34	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	OP	22	GLU	C-O	-5.34	1.18	1.24
1	BG	13	GLU	C-O	-5.34	1.17	1.23
1	BO	13	GLU	C-O	-5.34	1.17	1.23
1	Ae	20	ALA	C-O	-5.34	1.17	1.24
1	Bi	13	GLU	C-O	-5.34	1.17	1.23
1	Oe	22	GLU	C-O	-5.34	1.18	1.24
1	Jb	23	ALA	C-O	-5.34	1.17	1.24
1	Md	79	HIS	C-O	-5.34	1.17	1.23
1	H2	57	VAL	C-O	-5.33	1.18	1.24
1	F0	19	PRO	C-O	-5.33	1.17	1.24
1	H0	57	VAL	C-O	-5.33	1.18	1.24
1	J9	23	ALA	C-O	-5.33	1.17	1.24
1	HH	57	VAL	C-O	-5.33	1.18	1.24
1	IF	48	VAL	C-O	-5.33	1.18	1.24
1	JO	23	ALA	C-O	-5.33	1.17	1.24
1	FW	19	PRO	C-O	-5.33	1.17	1.24
1	HW	57	VAL	C-O	-5.33	1.18	1.24
1	Ba	13	GLU	C-O	-5.33	1.17	1.23
1	FU	19	PRO	C-O	-5.33	1.17	1.24
1	HU	57	VAL	C-O	-5.33	1.18	1.24
1	Fj	19	PRO	C-O	-5.33	1.17	1.24
1	Ij	48	VAL	C-O	-5.33	1.18	1.24
1	Fl	19	PRO	C-O	-5.33	1.17	1.24
1	F2	19	PRO	C-O	-5.33	1.17	1.24
1	F3	19	PRO	C-O	-5.33	1.17	1.24
1	Jg	23	ALA	C-O	-5.33	1.17	1.24
1	HY	57	VAL	C-O	-5.33	1.18	1.24
1	Fb	26	ALA	C-O	-5.33	1.18	1.24
1	Fv	19	PRO	C-O	-5.33	1.17	1.24
1	Gv	72	GLY	C-O	-5.33	1.17	1.24
1	Hn	57	VAL	C-O	-5.33	1.18	1.24
1	Mr	79	HIS	C-O	-5.33	1.17	1.23
1	JC	23	ALA	C-O	-5.33	1.17	1.24
1	Fq	26	ALA	C-O	-5.33	1.18	1.24
1	FB	19	PRO	C-O	-5.33	1.17	1.24
1	A3	48	VAL	C-O	-5.33	1.18	1.24
1	A3	79	HIS	C-O	-5.33	1.17	1.23
1	B4	13	GLU	C-O	-5.33	1.17	1.23
1	F5	20	ALA	C-O	-5.33	1.17	1.24
1	A6	48	VAL	C-O	-5.33	1.18	1.24
1	A6	79	HIS	C-O	-5.33	1.17	1.23
1	A9	93	PRO	C-O	-5.33	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	FQ	19	PRO	C-O	-5.33	1.17	1.24
1	AI	79	HIS	C-O	-5.33	1.17	1.23
1	BJ	13	GLU	C-O	-5.33	1.17	1.23
1	FK	20	ALA	C-O	-5.33	1.17	1.24
1	AO	93	PRO	C-O	-5.33	1.17	1.23
1	Ae	49	LEU	C-O	-5.33	1.17	1.24
1	FZ	20	ALA	C-O	-5.33	1.17	1.24
1	Aa	79	HIS	C-O	-5.33	1.17	1.23
1	Fo	20	ALA	C-O	-5.33	1.17	1.24
1	Ap	79	HIS	C-O	-5.33	1.17	1.23
1	Ar	79	HIS	C-O	-5.33	1.17	1.23
1	As	93	PRO	C-O	-5.33	1.17	1.23
1	AC	46	VAL	C-O	-5.33	1.18	1.24
1	AR	46	VAL	C-O	-5.33	1.18	1.24
1	Fs	20	ALA	C-O	-5.33	1.17	1.24
1	AB	48	VAL	C-O	-5.33	1.18	1.24
1	AC	48	VAL	C-O	-5.33	1.18	1.24
1	OA	20	ALA	C-O	-5.33	1.17	1.24
3	YD	776	ALA	C-O	-5.33	1.17	1.24
1	A5	79	HIS	C-O	-5.33	1.17	1.23
1	F2	26	ALA	C-O	-5.33	1.18	1.24
1	F3	20	ALA	C-O	-5.33	1.17	1.24
1	E6	19	PRO	C-O	-5.33	1.17	1.24
1	AQ	48	VAL	C-O	-5.33	1.18	1.24
1	OP	20	ALA	C-O	-5.33	1.17	1.24
1	AK	79	HIS	C-O	-5.33	1.17	1.23
1	FH	20	ALA	C-O	-5.33	1.17	1.24
1	FH	26	ALA	C-O	-5.33	1.18	1.24
1	FI	20	ALA	C-O	-5.33	1.17	1.24
1	MG	79	HIS	C-O	-5.33	1.17	1.23
1	Af	25	ASP	C-O	-5.33	1.18	1.24
1	Ag	48	VAL	C-O	-5.33	1.18	1.24
1	Fe	19	PRO	C-O	-5.33	1.17	1.24
3	Yh	776	ALA	C-O	-5.33	1.17	1.24
1	FW	20	ALA	C-O	-5.33	1.17	1.24
1	FW	26	ALA	C-O	-5.33	1.18	1.24
1	FX	20	ALA	C-O	-5.33	1.17	1.24
1	Av	48	VAL	C-O	-5.33	1.18	1.24
1	Ft	19	PRO	C-O	-5.33	1.17	1.24
3	Yw	776	ALA	C-O	-5.33	1.17	1.24
1	Fm	20	ALA	C-O	-5.33	1.17	1.24
1	Fn	19	PRO	C-O	-5.33	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Il	34	ARG	C-O	-5.33	1.17	1.24
1	Fl	20	ALA	C-O	-5.33	1.17	1.24
1	Fl	26	ALA	C-O	-5.33	1.18	1.24
1	ID	34	ARG	C-O	-5.33	1.17	1.24
1	O6	22	GLU	C-O	-5.33	1.18	1.24
1	IS	34	ARG	C-O	-5.33	1.17	1.24
1	OL	22	GLU	C-O	-5.33	1.18	1.24
1	FV	20	ALA	C-O	-5.33	1.17	1.24
1	GC	72	GLY	C-O	-5.33	1.17	1.24
1	IE	48	VAL	C-O	-5.33	1.18	1.24
1	IT	48	VAL	C-O	-5.33	1.18	1.24
1	EG	19	PRO	C-O	-5.33	1.17	1.24
1	FN	19	PRO	C-O	-5.33	1.17	1.24
1	Gg	72	GLY	C-O	-5.33	1.17	1.24
1	Gi	11	MET	C-O	-5.33	1.17	1.23
1	Ig	11	MET	C-O	-5.33	1.17	1.23
1	AY	48	VAL	C-O	-5.33	1.18	1.24
1	Jd	23	ALA	C-O	-5.33	1.17	1.24
1	Al	46	VAL	C-O	-5.33	1.18	1.24
1	An	48	VAL	C-O	-5.33	1.18	1.24
1	Ds	64	GLY	C-O	-5.33	1.17	1.23
3	Yj	776	ALA	C-O	-5.33	1.17	1.24
1	F4	26	ALA	C-O	-5.32	1.18	1.24
1	L6	60	ALA	C-O	-5.32	1.17	1.24
1	AP	25	ASP	C-O	-5.32	1.18	1.24
1	AS	79	HIS	C-O	-5.32	1.17	1.23
1	FJ	26	ALA	C-O	-5.32	1.18	1.24
1	JM	23	ALA	C-O	-5.32	1.17	1.24
1	LL	60	ALA	C-O	-5.32	1.17	1.24
1	Hd	57	VAL	C-O	-5.32	1.18	1.24
3	Yd	776	ALA	C-O	-5.32	1.17	1.24
1	Aq	20	ALA	C-O	-5.32	1.17	1.24
1	Is	34	ARG	C-O	-5.32	1.17	1.24
1	Jq	23	ALA	C-O	-5.32	1.17	1.24
3	Ys	776	ALA	C-O	-5.32	1.17	1.24
1	A9	79	HIS	C-O	-5.32	1.17	1.23
1	AO	79	HIS	C-O	-5.32	1.17	1.23
1	Ad	79	HIS	C-O	-5.32	1.17	1.23
1	As	79	HIS	C-O	-5.32	1.17	1.23
1	FY	20	ALA	C-O	-5.32	1.17	1.24
1	CB	11	MET	C-O	-5.32	1.16	1.23
1	ME	79	HIS	C-O	-5.32	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J2	23	ALA	C-O	-5.32	1.17	1.24
1	O1	22	GLU	C-O	-5.32	1.18	1.24
1	D9	64	GLY	C-O	-5.32	1.17	1.23
1	CQ	11	MET	C-O	-5.32	1.16	1.23
1	MH	79	HIS	C-O	-5.32	1.17	1.23
1	OG	22	GLU	C-O	-5.32	1.18	1.24
1	AF	93	PRO	C-O	-5.32	1.17	1.23
1	DO	64	GLY	C-O	-5.32	1.17	1.23
1	Cf	11	MET	C-O	-5.32	1.16	1.23
1	Oc	20	ALA	C-O	-5.32	1.17	1.24
1	Aw	49	LEU	C-O	-5.32	1.17	1.24
1	Cu	11	MET	C-O	-5.32	1.16	1.23
1	Mo	79	HIS	C-O	-5.32	1.17	1.23
1	Or	20	ALA	C-O	-5.32	1.17	1.24
1	C7	11	MET	C-O	-5.32	1.16	1.23
1	GS	79	HIS	C-O	-5.32	1.17	1.23
1	Ea	19	PRO	C-O	-5.32	1.17	1.24
1	Ga	79	HIS	C-O	-5.32	1.17	1.23
1	Cq	11	MET	C-O	-5.32	1.16	1.23
1	Ep	19	PRO	C-O	-5.32	1.17	1.24
1	Gp	79	HIS	C-O	-5.32	1.17	1.23
1	FB	20	ALA	C-O	-5.32	1.17	1.24
1	GA	72	GLY	C-O	-5.32	1.17	1.24
1	A4	93	PRO	C-O	-5.32	1.17	1.23
1	F8	19	PRO	C-O	-5.32	1.17	1.24
1	I9	34	ARG	C-O	-5.32	1.17	1.24
1	FQ	20	ALA	C-O	-5.32	1.17	1.24
1	GP	72	GLY	C-O	-5.32	1.17	1.24
1	AJ	93	PRO	C-O	-5.32	1.17	1.23
1	FK	26	ALA	C-O	-5.32	1.18	1.24
1	IO	34	ARG	C-O	-5.32	1.17	1.24
1	Ff	20	ALA	C-O	-5.32	1.17	1.24
1	FX	26	ALA	C-O	-5.32	1.18	1.24
1	Fx	19	PRO	C-O	-5.32	1.17	1.24
1	Fp	26	ALA	C-O	-5.32	1.18	1.24
1	FY	19	PRO	C-O	-5.32	1.17	1.24
1	M3	79	HIS	C-O	-5.32	1.17	1.23
3	Y4	776	ALA	C-O	-5.32	1.17	1.24
1	M0	79	HIS	C-O	-5.32	1.17	1.23
3	Y7	776	ALA	C-O	-5.32	1.17	1.24
1	FN	20	ALA	C-O	-5.32	1.18	1.24
3	YM	776	ALA	C-O	-5.32	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Mg	79	HIS	C-O	-5.32	1.17	1.23
1	BY	13	GLU	C-O	-5.32	1.17	1.23
1	EY	19	PRO	C-O	-5.32	1.17	1.24
1	IU	48	VAL	C-O	-5.32	1.18	1.24
1	OU	22	GLU	C-O	-5.32	1.18	1.24
3	Yb	776	ALA	C-O	-5.32	1.17	1.24
1	Ct	11	MET	C-O	-5.32	1.16	1.23
1	Mv	79	HIS	C-O	-5.32	1.17	1.23
1	Ov	22	GLU	C-O	-5.32	1.18	1.24
3	Yx	776	ALA	C-O	-5.32	1.17	1.24
1	Bn	13	GLU	C-O	-5.32	1.17	1.23
1	En	19	PRO	C-O	-5.32	1.17	1.24
1	Mj	79	HIS	C-O	-5.32	1.17	1.23
1	MI	79	HIS	C-O	-5.32	1.17	1.23
1	MF	79	HIS	C-O	-5.32	1.17	1.23
1	AN	48	VAL	C-O	-5.31	1.18	1.24
1	AW	79	HIS	C-O	-5.31	1.17	1.23
1	IX	34	ARG	C-O	-5.31	1.17	1.24
1	Al	79	HIS	C-O	-5.31	1.17	1.23
1	BA	13	GLU	C-O	-5.31	1.17	1.23
1	AK	46	VAL	C-O	-5.31	1.18	1.24
1	Fb	20	ALA	C-O	-5.31	1.18	1.24
1	Bt	13	GLU	C-O	-5.31	1.17	1.23
1	In	34	ARG	C-O	-5.31	1.17	1.24
3	Yj	819	PRO	C-O	-5.31	1.17	1.23
1	AE	48	VAL	C-O	-5.31	1.18	1.24
1	AT	48	VAL	C-O	-5.31	1.18	1.24
1	BN	13	GLU	C-O	-5.31	1.17	1.23
1	Ai	48	VAL	C-O	-5.31	1.18	1.24
1	AZ	79	HIS	C-O	-5.31	1.17	1.23
1	Fc	19	PRO	C-O	-5.31	1.17	1.24
1	Fo	19	PRO	C-O	-5.31	1.17	1.24
1	IB	34	ARG	C-O	-5.31	1.17	1.24
1	O5	22	GLU	C-O	-5.31	1.18	1.24
1	A9	48	VAL	C-O	-5.31	1.18	1.24
1	IQ	34	ARG	C-O	-5.31	1.17	1.24
1	AG	48	VAL	C-O	-5.31	1.18	1.24
1	OK	22	GLU	C-O	-5.31	1.18	1.24
1	AO	48	VAL	C-O	-5.31	1.18	1.24
1	IL	11	MET	C-O	-5.31	1.17	1.23
1	GZ	79	HIS	C-O	-5.31	1.17	1.23
1	Fn	20	ALA	C-O	-5.31	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	As	48	VAL	C-O	-5.31	1.18	1.24
1	A2	48	VAL	C-O	-5.31	1.18	1.24
1	B2	13	GLU	C-O	-5.31	1.17	1.23
1	G3	72	GLY	C-O	-5.31	1.17	1.24
1	AH	48	VAL	C-O	-5.31	1.18	1.24
1	BH	13	GLU	C-O	-5.31	1.17	1.23
1	MJ	79	HIS	C-O	-5.31	1.17	1.23
1	AF	48	VAL	C-O	-5.31	1.18	1.24
1	GX	72	GLY	C-O	-5.31	1.17	1.24
1	MY	79	HIS	C-O	-5.31	1.17	1.23
1	AU	48	VAL	C-O	-5.31	1.18	1.24
1	Au	93	PRO	C-O	-5.31	1.17	1.23
1	A5	48	VAL	C-O	-5.31	1.18	1.24
1	AK	48	VAL	C-O	-5.31	1.18	1.24
1	Ii	48	VAL	C-O	-5.31	1.18	1.24
1	BC	13	GLU	C-O	-5.30	1.17	1.23
1	FD	20	ALA	C-O	-5.30	1.18	1.24
1	IC	34	ARG	C-O	-5.30	1.17	1.24
1	A0	46	VAL	C-O	-5.30	1.18	1.24
1	A9	20	ALA	C-O	-5.30	1.18	1.24
1	B6	13	GLU	C-O	-5.30	1.17	1.23
1	O8	22	GLU	C-O	-5.30	1.18	1.24
1	BR	13	GLU	C-O	-5.30	1.17	1.23
1	JR	23	ALA	C-O	-5.30	1.18	1.24
3	YJ	776	ALA	C-O	-5.30	1.17	1.24
1	BL	13	GLU	C-O	-5.30	1.17	1.23
1	ON	22	GLU	C-O	-5.30	1.18	1.24
1	Ah	93	PRO	C-O	-5.30	1.17	1.23
1	Bg	13	GLU	C-O	-5.30	1.17	1.23
1	Ig	34	ARG	C-O	-5.30	1.17	1.24
1	CX	11	MET	C-O	-5.30	1.17	1.23
1	AU	46	VAL	C-O	-5.30	1.18	1.24
1	Oc	22	GLU	C-O	-5.30	1.18	1.24
1	Aw	93	PRO	C-O	-5.30	1.17	1.23
1	Bv	13	GLU	C-O	-5.30	1.17	1.23
1	Or	22	GLU	C-O	-5.30	1.18	1.24
1	Fh	20	ALA	C-O	-5.30	1.18	1.24
1	HD	57	VAL	C-O	-5.30	1.18	1.24
1	A7	25	ASP	C-O	-5.30	1.18	1.24
1	A8	46	VAL	C-O	-5.30	1.18	1.24
1	AI	48	VAL	C-O	-5.30	1.18	1.24
1	AN	46	VAL	C-O	-5.30	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hh	57	VAL	C-O	-5.30	1.18	1.24
1	JW	23	ALA	C-O	-5.30	1.18	1.24
1	OV	22	GLU	C-O	-5.30	1.18	1.24
1	Ab	25	ASP	C-O	-5.30	1.18	1.24
1	Hw	57	VAL	C-O	-5.30	1.18	1.24
1	Jl	23	ALA	C-O	-5.30	1.18	1.24
1	Ok	22	GLU	C-O	-5.30	1.18	1.24
1	Aq	25	ASP	C-O	-5.30	1.18	1.24
1	AA	79	HIS	C-O	-5.30	1.17	1.23
1	A2	25	ASP	C-O	-5.30	1.18	1.24
1	F6	20	ALA	C-O	-5.30	1.18	1.24
1	AJ	46	VAL	C-O	-5.30	1.18	1.24
1	Ae	79	HIS	C-O	-5.30	1.17	1.23
1	AW	25	ASP	C-O	-5.30	1.18	1.24
1	Id	34	ARG	C-O	-5.30	1.17	1.24
1	At	79	HIS	C-O	-5.30	1.17	1.23
1	Au	25	ASP	C-O	-5.30	1.18	1.24
1	Gw	79	HIS	C-O	-5.30	1.17	1.23
1	Al	25	ASP	C-O	-5.30	1.18	1.24
1	An	46	VAL	C-O	-5.30	1.18	1.24
1	Fr	26	ALA	C-O	-5.30	1.18	1.24
1	FL	20	ALA	C-O	-5.30	1.18	1.24
1	A1	79	HIS	C-O	-5.30	1.17	1.23
1	A2	20	ALA	C-O	-5.30	1.18	1.24
1	F3	26	ALA	C-O	-5.30	1.18	1.24
1	F4	19	PRO	C-O	-5.30	1.17	1.24
1	F4	20	ALA	C-O	-5.30	1.18	1.24
1	M4	79	HIS	C-O	-5.30	1.17	1.23
1	F6	26	ALA	C-O	-5.30	1.18	1.24
1	F7	20	ALA	C-O	-5.30	1.18	1.24
1	G6	79	HIS	C-O	-5.30	1.17	1.23
1	AR	20	ALA	C-O	-5.30	1.18	1.24
1	LT	60	ALA	C-O	-5.30	1.18	1.24
1	AG	79	HIS	C-O	-5.30	1.17	1.23
1	FM	20	ALA	C-O	-5.30	1.18	1.24
1	GL	79	HIS	C-O	-5.30	1.17	1.23
1	Ge	72	GLY	C-O	-5.30	1.17	1.24
1	AV	79	HIS	C-O	-5.30	1.17	1.23
1	AW	20	ALA	C-O	-5.30	1.18	1.24
1	EX	19	PRO	C-O	-5.30	1.17	1.24
1	Fa	26	ALA	C-O	-5.30	1.18	1.24
1	Gt	72	GLY	C-O	-5.30	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Fm	26	ALA	C-O	-5.30	1.18	1.24
1	Ap	48	VAL	C-O	-5.30	1.18	1.24
1	Fh	19	PRO	C-O	-5.30	1.17	1.24
1	Fq	20	ALA	C-O	-5.30	1.18	1.24
1	G6	72	GLY	C-O	-5.30	1.17	1.24
1	AM	25	ASP	C-O	-5.30	1.18	1.24
1	GL	72	GLY	C-O	-5.30	1.17	1.24
1	OW	22	GLU	C-O	-5.30	1.18	1.24
1	An	79	HIS	C-O	-5.30	1.17	1.23
1	Hj	57	VAL	C-O	-5.30	1.18	1.24
1	CC	11	MET	C-O	-5.30	1.17	1.23
1	FE	20	ALA	C-O	-5.30	1.18	1.24
1	C3	11	MET	C-O	-5.30	1.17	1.23
1	I4	34	ARG	C-O	-5.30	1.17	1.24
1	A6	20	ALA	C-O	-5.30	1.18	1.24
1	I7	34	ARG	C-O	-5.30	1.17	1.24
1	M9	79	HIS	C-O	-5.30	1.17	1.23
1	CR	11	MET	C-O	-5.30	1.17	1.23
1	FT	20	ALA	C-O	-5.30	1.18	1.24
1	IJ	34	ARG	C-O	-5.30	1.17	1.24
1	AL	20	ALA	C-O	-5.30	1.18	1.24
1	MO	79	HIS	C-O	-5.30	1.17	1.23
1	Ah	49	LEU	C-O	-5.30	1.17	1.24
1	Cg	11	MET	C-O	-5.30	1.17	1.23
1	IY	34	ARG	C-O	-5.30	1.17	1.24
1	Ab	20	ALA	C-O	-5.30	1.18	1.24
1	Cb	11	MET	C-O	-5.30	1.17	1.23
1	Fx	20	ALA	C-O	-5.30	1.18	1.24
1	Ao	79	HIS	C-O	-5.30	1.17	1.23
1	Ms	79	HIS	C-O	-5.30	1.17	1.23
1	AD	79	HIS	C-O	-5.29	1.17	1.23
1	AL	46	VAL	C-O	-5.29	1.18	1.24
1	ON	23	ALA	C-O	-5.29	1.18	1.24
1	Ah	79	HIS	C-O	-5.29	1.17	1.23
1	Og	23	ALA	C-O	-5.29	1.18	1.24
1	Aw	79	HIS	C-O	-5.29	1.17	1.23
1	Ap	46	VAL	C-O	-5.29	1.18	1.24
1	MC	79	HIS	C-O	-5.29	1.17	1.23
1	C2	11	MET	C-O	-5.29	1.17	1.23
1	A0	48	VAL	C-O	-5.29	1.18	1.24
1	F0	26	ALA	C-O	-5.29	1.18	1.24
1	FS	20	ALA	C-O	-5.29	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	MR	79	HIS	C-O	-5.29	1.17	1.23
1	CH	11	MET	C-O	-5.29	1.17	1.23
1	Hf	57	VAL	C-O	-5.29	1.18	1.24
1	AX	48	VAL	C-O	-5.29	1.18	1.24
1	FU	26	ALA	C-O	-5.29	1.18	1.24
1	Mb	50	VAL	C-O	-5.29	1.18	1.24
1	Am	48	VAL	C-O	-5.29	1.18	1.24
1	Cl	11	MET	C-O	-5.29	1.17	1.23
1	Aj	48	VAL	C-O	-5.29	1.18	1.24
1	Fj	26	ALA	C-O	-5.29	1.18	1.24
1	Mq	50	VAL	C-O	-5.29	1.18	1.24
1	Or	23	ALA	C-O	-5.29	1.18	1.24
1	AD	93	PRO	C-O	-5.29	1.17	1.23
1	FA	19	PRO	C-O	-5.29	1.17	1.24
1	OC	20	ALA	C-O	-5.29	1.17	1.24
1	E8	19	PRO	C-O	-5.29	1.17	1.24
1	O9	22	GLU	C-O	-5.29	1.18	1.24
1	FP	19	PRO	C-O	-5.29	1.17	1.24
1	OR	20	ALA	C-O	-5.29	1.17	1.24
3	YR	776	ALA	C-O	-5.29	1.17	1.24
1	AI	20	ALA	C-O	-5.29	1.18	1.24
1	EN	19	PRO	C-O	-5.29	1.17	1.24
1	OL	20	ALA	C-O	-5.29	1.17	1.24
1	AX	20	ALA	C-O	-5.29	1.18	1.24
1	Oa	20	ALA	C-O	-5.29	1.17	1.24
3	Y3	776	ALA	C-O	-5.29	1.17	1.24
1	A1	48	VAL	C-O	-5.29	1.18	1.24
1	M8	79	HIS	C-O	-5.29	1.17	1.23
1	AV	48	VAL	C-O	-5.29	1.18	1.24
1	Fw	20	ALA	C-O	-5.29	1.18	1.24
1	F1	19	PRO	C-O	-5.29	1.17	1.24
1	Ga	72	GLY	C-O	-5.29	1.17	1.24
1	IU	34	ARG	C-O	-5.29	1.17	1.24
1	Ib	48	VAL	C-O	-5.29	1.18	1.24
1	Bx	13	GLU	C-O	-5.29	1.17	1.23
1	Gp	72	GLY	C-O	-5.29	1.17	1.24
1	Op	20	ALA	C-O	-5.29	1.17	1.24
1	E3	19	PRO	C-O	-5.29	1.17	1.24
1	AB	79	HIS	C-O	-5.29	1.17	1.23
1	AD	46	VAL	C-O	-5.29	1.18	1.24
1	AQ	79	HIS	C-O	-5.29	1.17	1.23
1	BP	13	GLU	C-O	-5.29	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ah	46	VAL	C-O	-5.29	1.18	1.24
1	Aw	46	VAL	C-O	-5.29	1.18	1.24
1	Fu	20	ALA	C-O	-5.29	1.18	1.24
1	A1	20	ALA	C-O	-5.29	1.18	1.24
1	A8	20	ALA	C-O	-5.29	1.18	1.24
1	AG	20	ALA	C-O	-5.29	1.18	1.24
1	FJ	20	ALA	C-O	-5.29	1.18	1.24
1	AN	20	ALA	C-O	-5.29	1.18	1.24
1	AO	20	ALA	C-O	-5.29	1.18	1.24
1	Ah	25	ASP	C-O	-5.29	1.18	1.24
1	Fi	20	ALA	C-O	-5.29	1.18	1.24
3	YY	776	ALA	C-O	-5.29	1.17	1.24
1	Aw	25	ASP	C-O	-5.29	1.18	1.24
3	Yn	776	ALA	C-O	-5.29	1.17	1.24
1	Aj	46	VAL	C-O	-5.29	1.18	1.24
1	As	20	ALA	C-O	-5.29	1.18	1.24
1	AB	25	ASP	C-O	-5.28	1.18	1.24
1	A4	79	HIS	C-O	-5.28	1.17	1.23
1	G7	79	HIS	C-O	-5.28	1.17	1.23
1	AQ	25	ASP	C-O	-5.28	1.18	1.24
1	AJ	79	HIS	C-O	-5.28	1.17	1.23
1	JH	23	ALA	C-O	-5.28	1.18	1.24
1	FM	19	PRO	C-O	-5.28	1.17	1.24
1	AX	46	VAL	C-O	-5.28	1.18	1.24
1	AY	79	HIS	C-O	-5.28	1.17	1.23
1	FV	19	PRO	C-O	-5.28	1.17	1.24
1	At	46	VAL	C-O	-5.28	1.18	1.24
1	Iv	34	ARG	C-O	-5.28	1.17	1.24
1	Fk	19	PRO	C-O	-5.28	1.17	1.24
1	Ok	23	ALA	C-O	-5.28	1.18	1.24
1	Lp	83	ARG	C-O	-5.28	1.18	1.24
1	II	34	ARG	C-O	-5.28	1.17	1.24
1	LI	60	ALA	C-O	-5.28	1.18	1.24
1	AB	46	VAL	C-O	-5.28	1.18	1.24
1	AE	46	VAL	C-O	-5.28	1.18	1.24
1	AE	79	HIS	C-O	-5.28	1.17	1.23
1	A5	46	VAL	C-O	-5.28	1.18	1.24
1	F0	20	ALA	C-O	-5.28	1.18	1.24
1	AQ	46	VAL	C-O	-5.28	1.18	1.24
1	AT	46	VAL	C-O	-5.28	1.18	1.24
1	AT	79	HIS	C-O	-5.28	1.17	1.23
1	Ai	79	HIS	C-O	-5.28	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AZ	46	VAL	C-O	-5.28	1.18	1.24
1	FU	20	ALA	C-O	-5.28	1.18	1.24
1	Ax	79	HIS	C-O	-5.28	1.17	1.23
1	Ao	46	VAL	C-O	-5.28	1.18	1.24
1	Fj	20	ALA	C-O	-5.28	1.18	1.24
1	EC	19	PRO	C-O	-5.28	1.17	1.24
1	ER	19	PRO	C-O	-5.28	1.17	1.24
1	DL	64	GLY	C-O	-5.28	1.17	1.23
1	MU	79	HIS	C-O	-5.28	1.17	1.23
1	Ev	19	PRO	C-O	-5.28	1.17	1.24
1	CD	11	MET	C-O	-5.28	1.17	1.23
1	F5	26	ALA	C-O	-5.28	1.18	1.24
3	Y9	819	PRO	C-O	-5.28	1.17	1.23
1	CS	11	MET	C-O	-5.28	1.17	1.23
1	AK	20	ALA	C-O	-5.28	1.18	1.24
3	YI	776	ALA	C-O	-5.28	1.17	1.24
3	YO	819	PRO	C-O	-5.28	1.17	1.23
1	FZ	26	ALA	C-O	-5.28	1.18	1.24
1	Fc	26	ALA	C-O	-5.28	1.18	1.24
1	La	60	ALA	C-O	-5.28	1.18	1.24
1	Ft	26	ALA	C-O	-5.28	1.18	1.24
1	Fo	26	ALA	C-O	-5.28	1.18	1.24
1	Lp	60	ALA	C-O	-5.28	1.18	1.24
3	Ys	819	PRO	C-O	-5.28	1.17	1.23
1	AA	46	VAL	C-O	-5.28	1.18	1.24
1	BB	13	GLU	C-O	-5.28	1.17	1.23
1	GE	79	HIS	C-O	-5.28	1.17	1.23
1	AP	46	VAL	C-O	-5.28	1.18	1.24
1	BQ	13	GLU	C-O	-5.28	1.17	1.23
1	GT	79	HIS	C-O	-5.28	1.17	1.23
1	OO	23	ALA	C-O	-5.28	1.18	1.24
1	Ae	46	VAL	C-O	-5.28	1.18	1.24
1	Ch	11	MET	C-O	-5.28	1.17	1.23
1	Fe	26	ALA	C-O	-5.28	1.18	1.24
1	Gi	79	HIS	C-O	-5.28	1.17	1.23
1	Ec	19	PRO	C-O	-5.28	1.17	1.24
3	YU	819	PRO	C-O	-5.28	1.17	1.23
1	Bu	13	GLU	C-O	-5.28	1.17	1.23
1	Cw	11	MET	C-O	-5.28	1.17	1.23
1	Gx	79	HIS	C-O	-5.28	1.17	1.23
1	Ak	46	VAL	C-O	-5.28	1.18	1.24
1	Bm	13	GLU	C-O	-5.28	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AC	20	ALA	C-O	-5.27	1.18	1.24
1	GT	11	MET	C-O	-5.27	1.17	1.23
1	I3	34	ARG	C-O	-5.27	1.17	1.24
1	J4	23	ALA	C-O	-5.27	1.18	1.24
1	I6	34	ARG	C-O	-5.27	1.17	1.24
1	CJ	11	MET	C-O	-5.27	1.17	1.23
1	JJ	23	ALA	C-O	-5.27	1.18	1.24
1	AL	49	LEU	C-O	-5.27	1.17	1.24
1	IL	34	ARG	C-O	-5.27	1.17	1.24
1	AX	49	LEU	C-O	-5.27	1.17	1.24
1	Ia	34	ARG	C-O	-5.27	1.17	1.24
1	Lx	60	ALA	C-O	-5.27	1.18	1.24
1	Ip	34	ARG	C-O	-5.27	1.17	1.24
1	AA	25	ASP	C-O	-5.27	1.18	1.24
3	Y0	776	ALA	C-O	-5.27	1.17	1.24
3	YS	819	PRO	C-O	-5.27	1.17	1.23
3	YF	776	ALA	C-O	-5.27	1.17	1.24
1	GZ	11	MET	C-O	-5.27	1.17	1.23
3	YU	776	ALA	C-O	-5.27	1.17	1.24
1	At	25	ASP	C-O	-5.27	1.18	1.24
1	Am	46	VAL	C-O	-5.27	1.18	1.24
1	Go	11	MET	C-O	-5.27	1.17	1.23
1	A3	20	ALA	C-O	-5.27	1.18	1.24
3	Y2	776	ALA	C-O	-5.27	1.17	1.24
1	AQ	49	LEU	C-O	-5.27	1.17	1.24
3	YH	776	ALA	C-O	-5.27	1.17	1.24
1	Ag	20	ALA	C-O	-5.27	1.18	1.24
1	Fg	20	ALA	C-O	-5.27	1.18	1.24
3	YW	776	ALA	C-O	-5.27	1.17	1.24
3	YZ	776	ALA	C-O	-5.27	1.17	1.24
1	Fc	20	ALA	C-O	-5.27	1.18	1.24
1	Fv	20	ALA	C-O	-5.27	1.18	1.24
3	Yo	776	ALA	C-O	-5.27	1.17	1.24
1	Fr	20	ALA	C-O	-5.27	1.18	1.24
3	Yr	776	ALA	C-O	-5.27	1.17	1.24
1	AA	20	ALA	C-O	-5.27	1.18	1.24
1	AD	20	ALA	C-O	-5.27	1.18	1.24
1	JA	23	ALA	C-O	-5.27	1.18	1.24
1	LE	60	ALA	C-O	-5.27	1.18	1.24
1	A1	46	VAL	C-O	-5.27	1.18	1.24
1	A4	20	ALA	C-O	-5.27	1.18	1.24
1	I2	34	ARG	C-O	-5.27	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J1	23	ALA	C-O	-5.27	1.18	1.24
1	A7	20	ALA	C-O	-5.27	1.18	1.24
1	AP	20	ALA	C-O	-5.27	1.18	1.24
1	AS	20	ALA	C-O	-5.27	1.18	1.24
1	IH	34	ARG	C-O	-5.27	1.17	1.24
1	JG	23	ALA	C-O	-5.27	1.18	1.24
1	Bf	13	GLU	C-O	-5.27	1.17	1.23
1	Li	60	ALA	C-O	-5.27	1.18	1.24
1	AV	20	ALA	C-O	-5.27	1.18	1.24
1	AV	46	VAL	C-O	-5.27	1.18	1.24
1	AY	20	ALA	C-O	-5.27	1.18	1.24
1	IW	34	ARG	C-O	-5.27	1.17	1.24
1	JV	23	ALA	C-O	-5.27	1.18	1.24
1	OV	23	ALA	C-O	-5.27	1.18	1.24
1	Ad	20	ALA	C-O	-5.27	1.18	1.24
1	Jt	23	ALA	C-O	-5.27	1.18	1.24
1	Ak	20	ALA	C-O	-5.27	1.18	1.24
1	AG	46	VAL	C-O	-5.27	1.18	1.24
1	IM	34	ARG	C-O	-5.27	1.17	1.24
3	YW	819	PRO	C-O	-5.27	1.17	1.23
1	At	49	LEU	C-O	-5.27	1.17	1.24
3	Yl	776	ALA	C-O	-5.27	1.17	1.24
3	Yl	819	PRO	C-O	-5.27	1.17	1.23
1	D2	64	GLY	C-O	-5.26	1.17	1.23
1	FR	20	ALA	C-O	-5.26	1.18	1.24
1	CG	11	MET	C-O	-5.26	1.17	1.23
1	AF	46	VAL	C-O	-5.26	1.18	1.24
1	DW	64	GLY	C-O	-5.26	1.17	1.23
1	Jn	23	ALA	C-O	-5.26	1.18	1.24
1	JY	23	ALA	C-O	-5.26	1.18	1.24
1	JB	23	ALA	C-O	-5.26	1.18	1.24
1	JQ	23	ALA	C-O	-5.26	1.18	1.24
1	Jf	23	ALA	C-O	-5.26	1.18	1.24
1	Ju	23	ALA	C-O	-5.26	1.18	1.24
1	BD	13	GLU	C-O	-5.26	1.17	1.23
1	FE	26	ALA	C-O	-5.26	1.18	1.24
1	I1	34	ARG	C-O	-5.26	1.17	1.24
3	Y8	776	ALA	C-O	-5.26	1.17	1.24
1	BS	13	GLU	C-O	-5.26	1.17	1.23
1	FT	26	ALA	C-O	-5.26	1.18	1.24
3	YN	776	ALA	C-O	-5.26	1.17	1.24
1	Bh	13	GLU	C-O	-5.26	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Yi	776	ALA	C-O	-5.26	1.17	1.24
1	CV	11	MET	C-O	-5.26	1.17	1.23
1	Aa	48	VAL	C-O	-5.26	1.18	1.24
3	Yc	776	ALA	C-O	-5.26	1.17	1.24
1	Bw	13	GLU	C-O	-5.26	1.17	1.23
1	Ck	11	MET	C-O	-5.26	1.17	1.23
1	Il	48	VAL	C-O	-5.26	1.18	1.24
1	LB	83	ARG	C-O	-5.26	1.18	1.24
1	JP	23	ALA	C-O	-5.26	1.18	1.24
1	OR	23	ALA	C-O	-5.26	1.18	1.24
1	AJ	25	ASP	C-O	-5.26	1.18	1.24
1	AO	25	ASP	C-O	-5.26	1.18	1.24
1	Ac	46	VAL	C-O	-5.26	1.18	1.24
1	Nc	48	VAL	C-O	-5.26	1.18	1.24
1	Al	49	LEU	C-O	-5.26	1.17	1.24
1	Ar	46	VAL	C-O	-5.26	1.18	1.24
1	As	46	VAL	C-O	-5.26	1.18	1.24
1	OI	23	ALA	C-O	-5.26	1.18	1.24
1	A9	46	VAL	C-O	-5.26	1.18	1.24
1	AO	46	VAL	C-O	-5.26	1.18	1.24
1	HF	57	VAL	C-O	-5.26	1.18	1.24
1	Ad	46	VAL	C-O	-5.26	1.18	1.24
1	G1	79	HIS	C-O	-5.26	1.17	1.23
1	LR	83	ARG	C-O	-5.26	1.18	1.24
1	GG	79	HIS	C-O	-5.26	1.17	1.23
1	Ae	25	ASP	C-O	-5.26	1.18	1.24
1	Ad	25	ASP	C-O	-5.26	1.18	1.24
1	As	25	ASP	C-O	-5.26	1.18	1.24
1	AD	25	ASP	C-O	-5.25	1.18	1.24
1	A4	25	ASP	C-O	-5.25	1.18	1.24
1	AS	25	ASP	C-O	-5.25	1.18	1.24
1	AY	25	ASP	C-O	-5.25	1.18	1.24
1	An	25	ASP	C-O	-5.25	1.18	1.24
1	LA	60	ALA	C-O	-5.25	1.18	1.24
3	YE	776	ALA	C-O	-5.25	1.17	1.24
1	D3	64	GLY	C-O	-5.25	1.17	1.23
1	L1	60	ALA	C-O	-5.25	1.18	1.24
1	AS	46	VAL	C-O	-5.25	1.18	1.24
1	LP	60	ALA	C-O	-5.25	1.18	1.24
3	YT	776	ALA	C-O	-5.25	1.17	1.24
1	LG	60	ALA	C-O	-5.25	1.18	1.24
1	AF	20	ALA	C-O	-5.25	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DX	64	GLY	C-O	-5.25	1.17	1.23
1	MX	79	HIS	C-O	-5.25	1.17	1.23
1	Da	64	GLY	C-O	-5.25	1.17	1.23
1	Dm	64	GLY	C-O	-5.25	1.17	1.23
1	Dp	64	GLY	C-O	-5.25	1.17	1.23
1	DI	64	GLY	C-O	-5.25	1.17	1.23
1	GA	79	HIS	C-O	-5.25	1.17	1.23
1	GE	11	MET	C-O	-5.25	1.17	1.23
1	A4	46	VAL	C-O	-5.25	1.18	1.24
1	C4	11	MET	C-O	-5.25	1.17	1.23
1	G5	79	HIS	C-O	-5.25	1.17	1.23
1	A7	46	VAL	C-O	-5.25	1.18	1.24
1	GP	79	HIS	C-O	-5.25	1.17	1.23
1	GK	79	HIS	C-O	-5.25	1.17	1.23
1	AM	46	VAL	C-O	-5.25	1.18	1.24
1	JL	23	ALA	C-O	-5.25	1.18	1.24
1	De	64	GLY	C-O	-5.25	1.17	1.23
1	AY	46	VAL	C-O	-5.25	1.18	1.24
1	CY	11	MET	C-O	-5.25	1.17	1.23
1	GV	79	HIS	C-O	-5.25	1.17	1.23
1	Oc	23	ALA	C-O	-5.25	1.18	1.24
3	Yd	819	PRO	C-O	-5.25	1.17	1.23
1	Dt	64	GLY	C-O	-5.25	1.17	1.23
1	Gt	79	HIS	C-O	-5.25	1.17	1.23
1	Gx	11	MET	C-O	-5.25	1.17	1.23
1	Cm	11	MET	C-O	-5.25	1.17	1.23
1	Cn	11	MET	C-O	-5.25	1.17	1.23
1	Do	64	GLY	C-O	-5.25	1.17	1.23
1	Gk	79	HIS	C-O	-5.25	1.17	1.23
1	L3	60	ALA	C-O	-5.25	1.18	1.24
1	C1	11	MET	C-O	-5.25	1.17	1.23
1	C9	11	MET	C-O	-5.25	1.17	1.23
1	CO	11	MET	C-O	-5.25	1.17	1.23
1	Cd	11	MET	C-O	-5.25	1.17	1.23
1	A3	46	VAL	C-O	-5.25	1.18	1.24
3	Y1	776	ALA	C-O	-5.25	1.17	1.24
1	I0	34	ARG	C-O	-5.25	1.17	1.24
1	O0	22	GLU	C-O	-5.25	1.18	1.24
3	YG	776	ALA	C-O	-5.25	1.17	1.24
1	OF	22	GLU	C-O	-5.25	1.18	1.24
1	If	34	ARG	C-O	-5.25	1.17	1.24
1	Av	20	ALA	C-O	-5.25	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Iu	34	ARG	C-O	-5.25	1.17	1.24
1	Ij	34	ARG	C-O	-5.25	1.17	1.24
1	LI	83	ARG	C-O	-5.25	1.18	1.24
1	A2	46	VAL	C-O	-5.25	1.18	1.24
1	AH	46	VAL	C-O	-5.25	1.18	1.24
1	AV	49	LEU	C-O	-5.25	1.17	1.24
1	AW	46	VAL	C-O	-5.25	1.18	1.24
3	YX	776	ALA	C-O	-5.25	1.17	1.24
1	AU	20	ALA	C-O	-5.25	1.18	1.24
1	Gd	11	MET	C-O	-5.25	1.17	1.23
1	Ak	49	LEU	C-O	-5.25	1.17	1.24
3	Ym	776	ALA	C-O	-5.25	1.17	1.24
1	Gs	11	MET	C-O	-5.25	1.17	1.23
3	YC	776	ALA	C-O	-5.25	1.17	1.24
1	A1	25	ASP	C-O	-5.25	1.18	1.24
1	I5	48	VAL	C-O	-5.25	1.18	1.24
3	Y6	776	ALA	C-O	-5.25	1.17	1.24
1	AG	25	ASP	C-O	-5.25	1.18	1.24
1	MN	79	HIS	C-O	-5.25	1.17	1.23
3	YL	776	ALA	C-O	-5.25	1.17	1.24
3	Yg	776	ALA	C-O	-5.25	1.17	1.24
1	AV	25	ASP	C-O	-5.25	1.18	1.24
3	Ya	776	ALA	C-O	-5.25	1.17	1.24
3	Yv	776	ALA	C-O	-5.25	1.17	1.24
1	Ak	25	ASP	C-O	-5.25	1.18	1.24
1	Io	48	VAL	C-O	-5.25	1.18	1.24
3	Yp	776	ALA	C-O	-5.25	1.17	1.24
1	D1	64	GLY	C-O	-5.24	1.17	1.23
1	DP	64	GLY	C-O	-5.24	1.17	1.23
1	GI	72	GLY	C-O	-5.24	1.17	1.24
1	AM	20	ALA	C-O	-5.24	1.18	1.24
1	Di	64	GLY	C-O	-5.24	1.17	1.23
1	AW	48	VAL	C-O	-5.24	1.18	1.24
1	DZ	64	GLY	C-O	-5.24	1.17	1.23
1	Dc	64	GLY	C-O	-5.24	1.17	1.23
1	Fa	20	ALA	C-O	-5.24	1.18	1.24
1	Dx	64	GLY	C-O	-5.24	1.17	1.23
1	Ft	20	ALA	C-O	-5.24	1.18	1.24
1	Ov	23	ALA	C-O	-5.24	1.18	1.24
1	Al	48	VAL	C-O	-5.24	1.18	1.24
1	Am	49	LEU	C-O	-5.24	1.17	1.24
1	Aq	49	LEU	C-O	-5.24	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Dr	64	GLY	C-O	-5.24	1.17	1.23
1	Fp	20	ALA	C-O	-5.24	1.18	1.24
1	A5	25	ASP	C-O	-5.24	1.18	1.24
1	I2	48	VAL	C-O	-5.24	1.18	1.24
1	F8	26	ALA	C-O	-5.24	1.18	1.24
1	IQ	48	VAL	C-O	-5.24	1.18	1.24
1	AK	25	ASP	C-O	-5.24	1.18	1.24
1	FN	26	ALA	C-O	-5.24	1.18	1.24
1	AZ	25	ASP	C-O	-5.24	1.18	1.24
1	CW	11	MET	C-O	-5.24	1.17	1.23
1	IW	48	VAL	C-O	-5.24	1.18	1.24
1	LV	60	ALA	C-O	-5.24	1.18	1.24
1	Ao	25	ASP	C-O	-5.24	1.18	1.24
1	Lk	60	ALA	C-O	-5.24	1.18	1.24
1	Df	56	ALA	CA-CB	-5.24	1.45	1.53
1	CA	11	MET	C-O	-5.24	1.17	1.23
1	FC	26	ALA	C-O	-5.24	1.18	1.24
3	Y4	819	PRO	C-O	-5.24	1.17	1.23
1	A6	25	ASP	C-O	-5.24	1.18	1.24
1	B9	57	VAL	C-O	-5.24	1.18	1.24
1	L9	83	ARG	C-O	-5.24	1.18	1.24
1	CP	11	MET	C-O	-5.24	1.17	1.23
1	FR	26	ALA	C-O	-5.24	1.18	1.24
3	YJ	819	PRO	C-O	-5.24	1.17	1.23
1	AL	25	ASP	C-O	-5.24	1.18	1.24
1	LO	83	ARG	C-O	-5.24	1.18	1.24
1	Ce	11	MET	C-O	-5.24	1.17	1.23
1	Ci	11	MET	C-O	-5.24	1.17	1.23
3	YY	819	PRO	C-O	-5.24	1.17	1.23
1	Aa	25	ASP	C-O	-5.24	1.18	1.24
1	Ac	20	ALA	C-O	-5.24	1.18	1.24
1	Bd	57	VAL	C-O	-5.24	1.18	1.24
1	Ld	83	ARG	C-O	-5.24	1.18	1.24
1	Cx	11	MET	C-O	-5.24	1.17	1.23
3	Yw	819	PRO	C-O	-5.24	1.17	1.23
1	Lo	60	ALA	C-O	-5.24	1.18	1.24
3	Yn	819	PRO	C-O	-5.24	1.17	1.23
1	Cs	11	MET	C-O	-5.24	1.17	1.23
1	Er	19	PRO	C-O	-5.24	1.17	1.24
1	A0	20	ALA	C-O	-5.24	1.18	1.24
1	Ie	34	ARG	C-O	-5.24	1.17	1.24
1	Aa	20	ALA	C-O	-5.24	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	La	83	ARG	C-O	-5.24	1.18	1.24
1	Ou	23	ALA	C-O	-5.24	1.18	1.24
1	An	20	ALA	C-O	-5.24	1.18	1.24
1	Gn	80	ILE	C-O	-5.24	1.18	1.24
1	DA	64	GLY	C-O	-5.24	1.17	1.23
1	I8	34	ARG	C-O	-5.24	1.17	1.24
1	IN	34	ARG	C-O	-5.24	1.17	1.24
1	Fi	26	ALA	C-O	-5.24	1.18	1.24
1	Ii	34	ARG	C-O	-5.24	1.17	1.24
1	Dd	64	GLY	C-O	-5.24	1.17	1.23
1	Fx	26	ALA	C-O	-5.24	1.18	1.24
1	Dk	64	GLY	C-O	-5.24	1.17	1.23
1	AA	49	LEU	C-O	-5.24	1.17	1.24
1	AE	25	ASP	C-O	-5.24	1.18	1.24
1	L5	60	ALA	C-O	-5.24	1.18	1.24
1	O4	23	ALA	C-O	-5.24	1.18	1.24
1	AP	49	LEU	C-O	-5.24	1.17	1.24
1	LK	60	ALA	C-O	-5.24	1.18	1.24
1	OJ	23	ALA	C-O	-5.24	1.18	1.24
1	Af	79	HIS	C-O	-5.24	1.17	1.23
1	Ai	25	ASP	C-O	-5.24	1.18	1.24
1	Ai	46	VAL	C-O	-5.24	1.18	1.24
1	LZ	60	ALA	C-O	-5.24	1.18	1.24
1	OY	23	ALA	C-O	-5.24	1.18	1.24
1	Ab	46	VAL	C-O	-5.24	1.18	1.24
1	Ax	46	VAL	C-O	-5.24	1.18	1.24
1	On	23	ALA	C-O	-5.24	1.18	1.24
1	D0	64	GLY	C-O	-5.23	1.17	1.23
1	Gg	79	HIS	C-O	-5.23	1.17	1.23
1	Gm	72	GLY	C-O	-5.23	1.17	1.24
1	Dj	64	GLY	C-O	-5.23	1.17	1.23
3	Y5	776	ALA	C-O	-5.23	1.17	1.24
3	YK	776	ALA	C-O	-5.23	1.17	1.24
1	AF	47	THR	C-O	-5.23	1.17	1.24
1	HF	50	VAL	C-O	-5.23	1.17	1.23
1	Ge	79	HIS	C-O	-5.23	1.17	1.23
1	HU	50	VAL	C-O	-5.23	1.17	1.23
1	Hj	50	VAL	C-O	-5.23	1.17	1.23
1	JD	23	ALA	C-O	-5.23	1.18	1.24
1	G5	11	MET	C-O	-5.23	1.17	1.23
1	DQ	64	GLY	C-O	-5.23	1.17	1.23
1	JS	23	ALA	C-O	-5.23	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AH	25	ASP	C-O	-5.23	1.18	1.24
1	GK	11	MET	C-O	-5.23	1.17	1.23
1	Jh	23	ALA	C-O	-5.23	1.18	1.24
1	DV	64	GLY	C-O	-5.23	1.17	1.23
1	Gc	11	MET	C-O	-5.23	1.17	1.23
1	Ic	34	ARG	C-O	-5.23	1.17	1.24
1	Jw	23	ALA	C-O	-5.23	1.18	1.24
1	Ir	34	ARG	C-O	-5.23	1.17	1.24
3	Y2	819	PRO	C-O	-5.23	1.17	1.23
1	AT	25	ASP	C-O	-5.23	1.18	1.24
3	YH	819	PRO	C-O	-5.23	1.17	1.23
3	Yg	819	PRO	C-O	-5.23	1.17	1.23
1	Io	34	ARG	C-O	-5.23	1.17	1.24
1	GD	20	ALA	C-O	-5.23	1.18	1.24
1	LD	83	ARG	C-O	-5.23	1.18	1.24
1	L7	83	ARG	C-O	-5.23	1.18	1.24
1	GR	79	HIS	C-O	-5.23	1.17	1.23
1	LS	83	ARG	C-O	-5.23	1.18	1.24
1	Eg	19	PRO	C-O	-5.23	1.17	1.24
1	Lb	83	ARG	C-O	-5.23	1.18	1.24
1	Ih	48	VAL	C-O	-5.23	1.18	1.24
1	Oj	22	GLU	C-O	-5.23	1.18	1.24
1	A1	49	LEU	C-O	-5.22	1.17	1.24
1	HS	57	VAL	C-O	-5.22	1.18	1.24
1	LQ	83	ARG	C-O	-5.22	1.18	1.24
1	AG	49	LEU	C-O	-5.22	1.17	1.24
1	IK	48	VAL	C-O	-5.22	1.18	1.24
1	Lf	83	ARG	C-O	-5.22	1.18	1.24
1	As	49	LEU	C-O	-5.22	1.17	1.24
1	J6	23	ALA	C-O	-5.22	1.18	1.24
1	OE	23	ALA	C-O	-5.22	1.18	1.24
1	I5	34	ARG	C-O	-5.22	1.17	1.24
1	A8	49	LEU	C-O	-5.22	1.17	1.24
1	OT	23	ALA	C-O	-5.22	1.18	1.24
1	IK	34	ARG	C-O	-5.22	1.17	1.24
1	JK	23	ALA	C-O	-5.22	1.18	1.24
1	AF	25	ASP	C-O	-5.22	1.18	1.24
1	GM	80	ILE	C-O	-5.22	1.18	1.24
1	Fe	20	ALA	C-O	-5.22	1.18	1.24
1	Fg	26	ALA	C-O	-5.22	1.18	1.24
1	IZ	34	ARG	C-O	-5.22	1.17	1.24
1	Ac	49	LEU	C-O	-5.22	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Fv	26	ALA	C-O	-5.22	1.18	1.24
1	Ll	60	ALA	C-O	-5.22	1.18	1.24
1	Ar	49	LEU	C-O	-5.22	1.17	1.24
1	AD	49	LEU	C-O	-5.22	1.17	1.24
1	GC	79	HIS	C-O	-5.22	1.17	1.23
1	A7	49	LEU	C-O	-5.22	1.17	1.24
1	G9	11	MET	C-O	-5.22	1.17	1.23
1	O8	23	ALA	C-O	-5.22	1.18	1.24
1	AS	49	LEU	C-O	-5.22	1.17	1.24
1	IH	48	VAL	C-O	-5.22	1.18	1.24
1	GO	11	MET	C-O	-5.22	1.17	1.23
1	Ab	49	LEU	C-O	-5.22	1.17	1.24
1	Ap	25	ASP	C-O	-5.22	1.18	1.24
1	D5	64	GLY	C-O	-5.22	1.17	1.23
1	D8	64	GLY	C-O	-5.22	1.17	1.23
1	DK	64	GLY	C-O	-5.22	1.17	1.23
1	DN	64	GLY	C-O	-5.22	1.17	1.23
1	LF	60	ALA	C-O	-5.22	1.18	1.24
1	Be	57	VAL	C-O	-5.22	1.18	1.24
1	Bt	57	VAL	C-O	-5.22	1.18	1.24
1	AH	49	LEU	C-O	-5.22	1.17	1.24
3	YI	819	PRO	C-O	-5.22	1.17	1.23
1	G4	80	ILE	C-O	-5.22	1.18	1.24
1	C0	11	MET	C-O	-5.22	1.17	1.23
1	L8	83	ARG	C-O	-5.22	1.18	1.24
1	O9	23	ALA	C-O	-5.22	1.18	1.24
1	GJ	80	ILE	C-O	-5.22	1.18	1.24
1	CF	11	MET	C-O	-5.22	1.17	1.23
1	Gh	80	ILE	C-O	-5.22	1.18	1.24
1	GY	80	ILE	C-O	-5.22	1.18	1.24
1	LV	83	ARG	C-O	-5.22	1.18	1.24
1	Ca	11	MET	C-O	-5.22	1.17	1.23
1	Lc	83	ARG	C-O	-5.22	1.18	1.24
3	Yc	819	PRO	C-O	-5.22	1.17	1.23
1	Lk	83	ARG	C-O	-5.22	1.18	1.24
1	Ap	20	ALA	C-O	-5.22	1.18	1.24
1	Os	23	ALA	C-O	-5.22	1.18	1.24
3	Yr	819	PRO	C-O	-5.22	1.17	1.23
1	Dl	64	GLY	C-O	-5.22	1.17	1.23
1	CD	9	LEU	C-O	-5.21	1.18	1.24
1	IB	48	VAL	C-O	-5.21	1.18	1.24
1	IE	34	ARG	C-O	-5.21	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A6	49	LEU	C-O	-5.21	1.17	1.24
1	CS	9	LEU	C-O	-5.21	1.18	1.24
1	IT	34	ARG	C-O	-5.21	1.17	1.24
1	Ch	9	LEU	C-O	-5.21	1.18	1.24
1	If	48	VAL	C-O	-5.21	1.18	1.24
1	GX	79	HIS	C-O	-5.21	1.17	1.23
1	Aa	49	LEU	C-O	-5.21	1.17	1.24
1	Cw	9	LEU	C-O	-5.21	1.18	1.24
1	Gv	79	HIS	C-O	-5.21	1.17	1.23
1	Iu	48	VAL	C-O	-5.21	1.18	1.24
1	Ix	34	ARG	C-O	-5.21	1.17	1.24
1	Bm	57	VAL	C-O	-5.21	1.18	1.24
1	Gm	79	HIS	C-O	-5.21	1.17	1.23
1	Ap	49	LEU	C-O	-5.21	1.17	1.24
1	Lr	83	ARG	C-O	-5.21	1.18	1.24
1	LN	60	ALA	C-O	-5.21	1.18	1.24
1	FG	19	PRO	C-O	-5.21	1.18	1.24
1	Ie	48	VAL	C-O	-5.21	1.18	1.24
1	It	48	VAL	C-O	-5.21	1.18	1.24
1	A5	20	ALA	C-O	-5.21	1.18	1.24
1	C5	11	MET	C-O	-5.21	1.17	1.23
1	L2	83	ARG	C-O	-5.21	1.18	1.24
1	O1	23	ALA	C-O	-5.21	1.18	1.24
1	I7	48	VAL	C-O	-5.21	1.18	1.24
1	J0	23	ALA	C-O	-5.21	1.18	1.24
1	CK	11	MET	C-O	-5.21	1.17	1.23
1	OG	23	ALA	C-O	-5.21	1.18	1.24
1	IM	48	VAL	C-O	-5.21	1.18	1.24
3	Yf	776	ALA	C-O	-5.21	1.17	1.24
1	AZ	20	ALA	C-O	-5.21	1.18	1.24
1	LW	83	ARG	C-O	-5.21	1.18	1.24
1	OW	23	ALA	C-O	-5.21	1.18	1.24
1	Iw	48	VAL	C-O	-5.21	1.18	1.24
3	Yt	776	ALA	C-O	-5.21	1.17	1.24
1	Ao	20	ALA	C-O	-5.21	1.18	1.24
1	Co	11	MET	C-O	-5.21	1.17	1.23
1	Ll	83	ARG	C-O	-5.21	1.18	1.24
1	Ol	23	ALA	C-O	-5.21	1.18	1.24
1	Iq	48	VAL	C-O	-5.21	1.18	1.24
3	YB	776	ALA	C-O	-5.21	1.17	1.24
1	A2	49	LEU	C-O	-5.21	1.17	1.24
1	GT	80	ILE	C-O	-5.21	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	YQ	776	ALA	C-O	-5.21	1.17	1.24
1	BO	57	VAL	C-O	-5.21	1.18	1.24
1	Af	49	LEU	C-O	-5.21	1.17	1.24
1	IV	48	VAL	C-O	-5.21	1.18	1.24
1	Lb	81	ILE	C-O	-5.21	1.18	1.24
1	Au	49	LEU	C-O	-5.21	1.17	1.24
1	Ax	49	LEU	C-O	-5.21	1.17	1.24
1	Jk	23	ALA	C-O	-5.21	1.18	1.24
1	C4	9	LEU	C-O	-5.21	1.18	1.24
1	O2	23	ALA	C-O	-5.21	1.18	1.24
1	G9	80	ILE	C-O	-5.21	1.18	1.24
1	L8	60	ALA	C-O	-5.21	1.18	1.24
3	Y8	819	PRO	C-O	-5.21	1.17	1.23
1	AJ	20	ALA	C-O	-5.21	1.18	1.24
1	CJ	9	LEU	C-O	-5.21	1.18	1.24
1	GO	80	ILE	C-O	-5.21	1.18	1.24
1	IF	34	ARG	C-O	-5.21	1.17	1.24
3	YN	819	PRO	C-O	-5.21	1.17	1.23
1	Ah	20	ALA	C-O	-5.21	1.18	1.24
1	CY	9	LEU	C-O	-5.21	1.18	1.24
1	Gd	80	ILE	C-O	-5.21	1.18	1.24
1	Lc	60	ALA	C-O	-5.21	1.18	1.24
1	Cn	9	LEU	C-O	-5.21	1.18	1.24
1	Gs	80	ILE	C-O	-5.21	1.18	1.24
1	Lr	60	ALA	C-O	-5.21	1.18	1.24
1	Ns	48	VAL	C-O	-5.21	1.18	1.24
1	IA	34	ARG	C-O	-5.21	1.17	1.24
1	IA	48	VAL	C-O	-5.21	1.18	1.24
1	LC	60	ALA	C-O	-5.21	1.18	1.24
1	I9	48	VAL	C-O	-5.21	1.18	1.24
1	IP	48	VAL	C-O	-5.21	1.18	1.24
1	AK	49	LEU	C-O	-5.21	1.17	1.24
1	IG	34	ARG	C-O	-5.21	1.17	1.24
1	AN	49	LEU	C-O	-5.21	1.17	1.24
1	IO	48	VAL	C-O	-5.21	1.18	1.24
1	Je	23	ALA	C-O	-5.21	1.18	1.24
1	Lg	60	ALA	C-O	-5.21	1.18	1.24
1	Lh	83	ARG	C-O	-5.21	1.18	1.24
1	LX	60	ALA	C-O	-5.21	1.18	1.24
1	LY	83	ARG	C-O	-5.21	1.18	1.24
3	YV	776	ALA	C-O	-5.21	1.17	1.24
1	Id	48	VAL	C-O	-5.21	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	It	34	ARG	C-O	-5.21	1.17	1.24
1	Lw	83	ARG	C-O	-5.21	1.18	1.24
1	Ln	83	ARG	C-O	-5.21	1.18	1.24
1	Lq	83	ARG	C-O	-5.21	1.18	1.24
1	Op	23	ALA	C-O	-5.21	1.18	1.24
1	LN	83	ARG	C-O	-5.21	1.18	1.24
1	DE	64	GLY	C-O	-5.21	1.17	1.23
1	A3	25	ASP	C-O	-5.21	1.18	1.24
1	I1	48	VAL	C-O	-5.21	1.18	1.24
1	DT	64	GLY	C-O	-5.21	1.17	1.23
1	AI	25	ASP	C-O	-5.21	1.18	1.24
1	IG	48	VAL	C-O	-5.21	1.18	1.24
1	AX	25	ASP	C-O	-5.21	1.18	1.24
1	Ik	48	VAL	C-O	-5.21	1.18	1.24
1	AE	20	ALA	C-O	-5.20	1.18	1.24
1	J5	23	ALA	C-O	-5.20	1.18	1.24
1	A0	25	ASP	C-O	-5.20	1.18	1.24
1	L6	83	ARG	C-O	-5.20	1.18	1.24
1	AT	20	ALA	C-O	-5.20	1.18	1.24
1	LL	83	ARG	C-O	-5.20	1.18	1.24
1	JZ	23	ALA	C-O	-5.20	1.18	1.24
1	LX	83	ARG	C-O	-5.20	1.18	1.24
1	AU	25	ASP	C-O	-5.20	1.18	1.24
1	Ax	20	ALA	C-O	-5.20	1.18	1.24
1	Jo	23	ALA	C-O	-5.20	1.18	1.24
1	L3	83	ARG	C-O	-5.20	1.18	1.24
1	G7	80	ILE	C-O	-5.20	1.18	1.24
1	GS	80	ILE	C-O	-5.20	1.18	1.24
1	Af	46	VAL	C-O	-5.20	1.18	1.24
1	GX	11	MET	C-O	-5.20	1.17	1.23
1	Ga	80	ILE	C-O	-5.20	1.18	1.24
1	Od	23	ALA	C-O	-5.20	1.18	1.24
1	Au	46	VAL	C-O	-5.20	1.18	1.24
1	G3	79	HIS	C-O	-5.20	1.17	1.23
1	GI	79	HIS	C-O	-5.20	1.17	1.23
1	Oi	23	ALA	C-O	-5.20	1.18	1.24
1	Ox	23	ALA	C-O	-5.20	1.18	1.24
1	Is	48	VAL	C-O	-5.20	1.18	1.24
3	YD	819	PRO	C-O	-5.20	1.17	1.23
1	L1	83	ARG	C-O	-5.20	1.18	1.24
1	C9	9	LEU	C-O	-5.20	1.18	1.24
3	Y7	819	PRO	C-O	-5.20	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	IS	48	VAL	C-O	-5.20	1.18	1.24
1	CO	9	LEU	C-O	-5.20	1.18	1.24
3	Yh	819	PRO	C-O	-5.20	1.17	1.23
1	Bs	57	VAL	C-O	-5.20	1.18	1.24
1	GA	11	MET	C-O	-5.20	1.17	1.23
1	A4	49	LEU	C-O	-5.20	1.17	1.24
1	C6	11	MET	C-O	-5.20	1.17	1.23
1	GP	11	MET	C-O	-5.20	1.17	1.23
1	AJ	49	LEU	C-O	-5.20	1.17	1.24
1	AM	49	LEU	C-O	-5.20	1.17	1.24
1	CL	11	MET	C-O	-5.20	1.17	1.23
1	Ge	11	MET	C-O	-5.20	1.17	1.23
1	AY	49	LEU	C-O	-5.20	1.17	1.24
1	Ja	23	ALA	C-O	-5.20	1.18	1.24
1	Gt	11	MET	C-O	-5.20	1.17	1.23
1	An	49	LEU	C-O	-5.20	1.17	1.24
1	AB	49	LEU	C-O	-5.20	1.17	1.24
1	OU	23	ALA	C-O	-5.20	1.18	1.24
1	AE	49	LEU	C-O	-5.19	1.17	1.24
1	GE	80	ILE	C-O	-5.19	1.18	1.24
1	OD	23	ALA	C-O	-5.19	1.18	1.24
1	A5	49	LEU	C-O	-5.19	1.17	1.24
1	AR	25	ASP	C-O	-5.19	1.18	1.24
1	AT	49	LEU	C-O	-5.19	1.17	1.24
1	JT	23	ALA	C-O	-5.19	1.18	1.24
1	OS	23	ALA	C-O	-5.19	1.18	1.24
1	Ai	49	LEU	C-O	-5.19	1.17	1.24
1	Oh	23	ALA	C-O	-5.19	1.18	1.24
1	AW	49	LEU	C-O	-5.19	1.17	1.24
1	GV	11	MET	C-O	-5.19	1.17	1.23
1	Gk	11	MET	C-O	-5.19	1.17	1.23
1	Jo	47	THR	C-O	-5.19	1.17	1.24
1	JF	23	ALA	C-O	-5.19	1.18	1.24
1	A9	49	LEU	C-O	-5.19	1.17	1.24
3	Y0	819	PRO	C-O	-5.19	1.17	1.23
1	AO	49	LEU	C-O	-5.19	1.17	1.24
3	YF	819	PRO	C-O	-5.19	1.17	1.23
1	Ad	49	LEU	C-O	-5.19	1.17	1.24
1	Hu	50	VAL	C-O	-5.19	1.17	1.23
1	Dm	77	ALA	C-O	-5.19	1.17	1.23
1	LC	83	ARG	C-O	-5.19	1.18	1.24
1	Ji	23	ALA	C-O	-5.19	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Lg	83	ARG	C-O	-5.19	1.18	1.24
1	AZ	49	LEU	C-O	-5.19	1.17	1.24
1	CU	11	MET	C-O	-5.19	1.17	1.23
1	Lv	83	ARG	C-O	-5.19	1.18	1.24
1	Ao	49	LEU	C-O	-5.19	1.17	1.24
1	Cj	11	MET	C-O	-5.19	1.17	1.23
1	A3	49	LEU	C-O	-5.19	1.17	1.24
1	G5	80	ILE	C-O	-5.19	1.18	1.24
1	I4	48	VAL	C-O	-5.19	1.18	1.24
1	O3	23	ALA	C-O	-5.19	1.18	1.24
1	IJ	48	VAL	C-O	-5.19	1.18	1.24
1	IY	48	VAL	C-O	-5.19	1.18	1.24
1	Gb	80	ILE	C-O	-5.19	1.18	1.24
1	Oa	23	ALA	C-O	-5.19	1.18	1.24
1	In	48	VAL	C-O	-5.19	1.18	1.24
1	Cs	9	LEU	C-O	-5.19	1.18	1.24
1	OA	23	ALA	C-O	-5.19	1.18	1.24
1	L4	83	ARG	C-O	-5.19	1.18	1.24
1	OP	23	ALA	C-O	-5.19	1.18	1.24
1	LJ	83	ARG	C-O	-5.19	1.18	1.24
3	YC	819	PRO	C-O	-5.18	1.17	1.23
1	AR	49	LEU	C-O	-5.18	1.17	1.24
1	Oq	23	ALA	C-O	-5.18	1.18	1.24
1	CE	11	MET	C-O	-5.18	1.17	1.23
1	I3	48	VAL	C-O	-5.18	1.18	1.24
1	A0	47	THR	C-O	-5.18	1.17	1.24
1	A8	25	ASP	C-O	-5.18	1.18	1.24
1	B6	57	VAL	C-O	-5.18	1.18	1.24
1	G8	79	HIS	C-O	-5.18	1.17	1.23
1	I6	48	VAL	C-O	-5.18	1.18	1.24
1	CT	11	MET	C-O	-5.18	1.17	1.23
1	AN	25	ASP	C-O	-5.18	1.18	1.24
1	BL	57	VAL	C-O	-5.18	1.18	1.24
1	AU	47	THR	C-O	-5.18	1.17	1.24
1	Ac	25	ASP	C-O	-5.18	1.18	1.24
1	Gc	79	HIS	C-O	-5.18	1.17	1.23
1	Ia	48	VAL	C-O	-5.18	1.18	1.24
1	Ld	60	ALA	C-O	-5.18	1.18	1.24
1	Nn	48	VAL	C-O	-5.18	1.18	1.24
1	Aj	47	THR	C-O	-5.18	1.17	1.24
1	Ar	25	ASP	C-O	-5.18	1.18	1.24
1	Bp	57	VAL	C-O	-5.18	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Gr	79	HIS	C-O	-5.18	1.17	1.23
1	Gs	20	ALA	C-O	-5.18	1.18	1.24
1	CZ	11	MET	C-O	-5.18	1.17	1.23
1	AC	25	ASP	C-O	-5.18	1.18	1.24
1	A9	25	ASP	C-O	-5.18	1.18	1.24
1	CF	9	LEU	C-O	-5.18	1.18	1.24
1	Aj	25	ASP	C-O	-5.18	1.18	1.24
1	IC	46	VAL	C-O	-5.18	1.18	1.24
1	LA	83	ARG	C-O	-5.18	1.18	1.24
1	G1	80	ILE	C-O	-5.18	1.18	1.24
1	LP	83	ARG	C-O	-5.18	1.18	1.24
1	GV	80	ILE	C-O	-5.18	1.18	1.24
1	Au	79	HIS	C-O	-5.18	1.17	1.23
1	Aw	20	ALA	C-O	-5.18	1.18	1.24
1	Lu	83	ARG	C-O	-5.18	1.18	1.24
1	Gk	80	ILE	C-O	-5.18	1.18	1.24
1	Ik	34	ARG	C-O	-5.18	1.17	1.24
1	Er	20	ALA	C-O	-5.18	1.18	1.24
1	BA	57	VAL	C-O	-5.18	1.18	1.24
1	IC	48	VAL	C-O	-5.18	1.18	1.24
1	B1	57	VAL	C-O	-5.18	1.18	1.24
1	L7	81	ILE	C-O	-5.18	1.18	1.24
1	BP	57	VAL	C-O	-5.18	1.18	1.24
1	IR	48	VAL	C-O	-5.18	1.18	1.24
1	Le	60	ALA	C-O	-5.18	1.18	1.24
1	BX	57	VAL	C-O	-5.18	1.18	1.24
1	IZ	48	VAL	C-O	-5.18	1.18	1.24
1	LY	81	ILE	C-O	-5.18	1.18	1.24
1	Lw	81	ILE	C-O	-5.18	1.18	1.24
1	Ln	81	ILE	C-O	-5.18	1.18	1.24
1	Lq	81	ILE	C-O	-5.18	1.18	1.24
1	Nr	48	VAL	C-O	-5.18	1.18	1.24
1	LM	81	ILE	C-O	-5.18	1.18	1.24
1	GC	11	MET	C-O	-5.17	1.17	1.23
3	YA	819	PRO	C-O	-5.17	1.18	1.23
1	G3	11	MET	C-O	-5.17	1.17	1.23
1	O7	23	ALA	C-O	-5.17	1.18	1.24
1	DT	77	ALA	C-O	-5.17	1.17	1.23
1	GR	11	MET	C-O	-5.17	1.17	1.23
1	HT	50	VAL	C-O	-5.17	1.17	1.23
3	YP	819	PRO	C-O	-5.17	1.18	1.23
1	EJ	12	ILE	C-O	-5.17	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	GI	11	MET	C-O	-5.17	1.17	1.23
1	Gg	11	MET	C-O	-5.17	1.17	1.23
3	Ye	819	PRO	C-O	-5.17	1.18	1.23
1	LZ	81	ILE	C-O	-5.17	1.18	1.24
1	Gd	20	ALA	C-O	-5.17	1.18	1.24
1	Nd	48	VAL	C-O	-5.17	1.18	1.24
1	Lu	60	ALA	C-O	-5.17	1.18	1.24
3	Yt	819	PRO	C-O	-5.17	1.18	1.23
3	Yv	819	PRO	C-O	-5.17	1.18	1.23
1	Lo	81	ILE	C-O	-5.17	1.18	1.24
1	Ar	20	ALA	C-O	-5.17	1.18	1.24
1	Gq	20	ALA	C-O	-5.17	1.18	1.24
1	JU	23	ALA	C-O	-5.17	1.18	1.24
1	ID	48	VAL	C-O	-5.17	1.18	1.24
1	L9	81	ILE	C-O	-5.17	1.18	1.24
1	GK	80	ILE	C-O	-5.17	1.18	1.24
1	LO	81	ILE	C-O	-5.17	1.18	1.24
3	Yh	867	ALA	C-O	-5.17	1.17	1.24
1	Ld	81	ILE	C-O	-5.17	1.18	1.24
1	Ax	25	ASP	C-O	-5.17	1.18	1.24
1	Go	80	ILE	C-O	-5.17	1.18	1.24
1	Aj	20	ALA	C-O	-5.17	1.18	1.24
1	Ls	81	ILE	C-O	-5.17	1.18	1.24
1	G1	11	MET	C-O	-5.17	1.17	1.23
3	Y5	819	PRO	C-O	-5.17	1.18	1.23
1	D8	77	ALA	C-O	-5.17	1.17	1.23
1	GG	11	MET	C-O	-5.17	1.17	1.23
3	YK	819	PRO	C-O	-5.17	1.18	1.23
1	DN	77	ALA	C-O	-5.17	1.17	1.23
1	Gh	20	ALA	C-O	-5.17	1.18	1.24
1	Lf	60	ALA	C-O	-5.17	1.18	1.24
1	Oe	23	ALA	C-O	-5.17	1.18	1.24
1	IZ	46	VAL	C-O	-5.17	1.18	1.24
1	Ot	23	ALA	C-O	-5.17	1.18	1.24
1	Io	46	VAL	C-O	-5.17	1.18	1.24
1	Cp	11	MET	C-O	-5.17	1.17	1.23
3	Y1	819	PRO	C-O	-5.17	1.18	1.23
1	GG	80	ILE	C-O	-5.17	1.18	1.24
3	YG	819	PRO	C-O	-5.17	1.18	1.23
1	GM	11	MET	C-O	-5.17	1.17	1.23
1	OF	23	ALA	C-O	-5.17	1.18	1.24
3	Ye	776	ALA	C-O	-5.17	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	DW	77	ALA	C-O	-5.17	1.17	1.23
1	Dl	77	ALA	C-O	-5.17	1.17	1.23
1	L2	60	ALA	C-O	-5.17	1.18	1.24
1	LH	60	ALA	C-O	-5.17	1.18	1.24
1	GY	11	MET	C-O	-5.17	1.17	1.23
1	LW	60	ALA	C-O	-5.17	1.18	1.24
1	OX	23	ALA	C-O	-5.17	1.18	1.24
1	Am	25	ASP	C-O	-5.17	1.18	1.24
1	Gn	11	MET	C-O	-5.17	1.17	1.23
1	Om	23	ALA	C-O	-5.17	1.18	1.24
1	CA	9	LEU	C-O	-5.17	1.18	1.24
1	G8	11	MET	C-O	-5.17	1.17	1.23
1	H0	50	VAL	C-O	-5.17	1.17	1.23
1	L7	60	ALA	C-O	-5.17	1.18	1.24
1	CP	9	LEU	C-O	-5.17	1.18	1.24
1	DO	77	ALA	C-O	-5.17	1.17	1.23
1	GN	11	MET	C-O	-5.17	1.17	1.23
1	If	37	GLY	C-O	-5.17	1.18	1.24
1	GY	20	ALA	C-O	-5.17	1.18	1.24
3	YY	867	ALA	C-O	-5.17	1.17	1.24
1	Cd	9	LEU	C-O	-5.17	1.18	1.24
1	Ct	9	LEU	C-O	-5.17	1.18	1.24
1	Iu	37	GLY	C-O	-5.17	1.18	1.24
3	Yn	867	ALA	C-O	-5.17	1.17	1.24
1	Gr	11	MET	C-O	-5.17	1.17	1.23
1	LM	60	ALA	C-O	-5.17	1.18	1.24
1	DC	64	GLY	C-O	-5.17	1.17	1.23
1	I0	37	GLY	C-O	-5.17	1.18	1.24
1	L0	60	ALA	C-O	-5.17	1.18	1.24
1	IF	37	GLY	C-O	-5.17	1.18	1.24
1	OM	23	ALA	C-O	-5.17	1.18	1.24
1	IU	37	GLY	C-O	-5.17	1.18	1.24
1	LU	60	ALA	C-O	-5.17	1.18	1.24
1	Fj	28	THR	C-O	-5.17	1.18	1.24
1	Lj	60	ALA	C-O	-5.17	1.18	1.24
1	Ls	83	ARG	C-O	-5.17	1.18	1.24
1	DR	64	GLY	C-O	-5.17	1.17	1.23
1	G6	80	ILE	C-O	-5.16	1.18	1.24
1	G9	20	ALA	C-O	-5.16	1.18	1.24
1	LH	83	ARG	C-O	-5.16	1.18	1.24
1	GL	80	ILE	C-O	-5.16	1.18	1.24
1	GO	20	ALA	C-O	-5.16	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Gg	80	ILE	C-O	-5.16	1.18	1.24
1	Av	25	ASP	C-O	-5.16	1.18	1.24
1	Iw	46	VAL	C-O	-5.16	1.18	1.24
1	Gn	20	ALA	C-O	-5.16	1.18	1.24
1	Im	46	VAL	C-O	-5.16	1.18	1.24
1	GD	80	ILE	C-O	-5.16	1.18	1.24
1	ND	48	VAL	C-O	-5.16	1.18	1.24
1	OB	23	ALA	C-O	-5.16	1.18	1.24
1	H5	50	VAL	C-O	-5.16	1.17	1.23
3	Y6	819	PRO	C-O	-5.16	1.18	1.23
1	OQ	23	ALA	C-O	-5.16	1.18	1.24
1	DG	64	GLY	C-O	-5.16	1.17	1.23
1	HK	50	VAL	C-O	-5.16	1.17	1.23
3	YL	819	PRO	C-O	-5.16	1.18	1.23
1	Ae	47	THR	C-O	-5.16	1.17	1.24
1	Of	23	ALA	C-O	-5.16	1.18	1.24
1	HZ	50	VAL	C-O	-5.16	1.17	1.23
3	Ya	819	PRO	C-O	-5.16	1.18	1.23
1	Gw	80	ILE	C-O	-5.16	1.18	1.24
1	Ho	50	VAL	C-O	-5.16	1.17	1.23
3	Yp	819	PRO	C-O	-5.16	1.18	1.23
1	A0	49	LEU	C-O	-5.16	1.17	1.24
1	LR	60	ALA	C-O	-5.16	1.18	1.24
1	HG	50	VAL	C-O	-5.16	1.17	1.23
1	AF	49	LEU	C-O	-5.16	1.17	1.24
1	IV	34	ARG	C-O	-5.16	1.17	1.24
3	YZ	819	PRO	C-O	-5.16	1.18	1.23
1	AU	49	LEU	C-O	-5.16	1.17	1.24
1	Ba	57	VAL	C-O	-5.16	1.18	1.24
3	Yo	819	PRO	C-O	-5.16	1.18	1.23
1	AC	49	LEU	C-O	-5.16	1.17	1.24
1	Ag	49	LEU	C-O	-5.16	1.17	1.24
1	Ai	20	ALA	C-O	-5.16	1.18	1.24
3	Yb	819	PRO	C-O	-5.16	1.18	1.23
1	Av	49	LEU	C-O	-5.16	1.17	1.24
1	Dx	77	ALA	C-O	-5.16	1.17	1.23
1	Jk	47	THR	C-O	-5.16	1.17	1.24
3	Yq	819	PRO	C-O	-5.16	1.18	1.23
1	GN	79	HIS	C-O	-5.16	1.17	1.23
3	YM	819	PRO	C-O	-5.16	1.18	1.23
1	GJ	11	MET	C-O	-5.16	1.17	1.23
3	Yu	776	ALA	C-O	-5.16	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	HE	50	VAL	C-O	-5.15	1.17	1.23
3	YA	776	ALA	C-O	-5.15	1.17	1.24
1	I2	46	VAL	C-O	-5.15	1.18	1.24
1	L4	60	ALA	C-O	-5.15	1.18	1.24
1	Lh	60	ALA	C-O	-5.15	1.18	1.24
1	LY	60	ALA	C-O	-5.15	1.18	1.24
1	Lw	60	ALA	C-O	-5.15	1.18	1.24
1	Lq	60	ALA	C-O	-5.15	1.18	1.24
1	HB	50	VAL	C-O	-5.15	1.17	1.23
1	JE	23	ALA	C-O	-5.15	1.18	1.24
3	YD	867	ALA	C-O	-5.15	1.18	1.24
1	B4	57	VAL	C-O	-5.15	1.18	1.24
1	O6	23	ALA	C-O	-5.15	1.18	1.24
1	HQ	50	VAL	C-O	-5.15	1.17	1.23
3	YS	867	ALA	C-O	-5.15	1.18	1.24
1	BJ	57	VAL	C-O	-5.15	1.18	1.24
1	OL	23	ALA	C-O	-5.15	1.18	1.24
1	Hf	50	VAL	C-O	-5.15	1.17	1.23
1	BY	57	VAL	C-O	-5.15	1.18	1.24
1	Jx	23	ALA	C-O	-5.15	1.18	1.24
1	Bn	57	VAL	C-O	-5.15	1.18	1.24
1	Aj	49	LEU	C-O	-5.15	1.17	1.24
1	GC	80	ILE	C-O	-5.15	1.18	1.24
1	O5	23	ALA	C-O	-5.15	1.18	1.24
1	GR	80	ILE	C-O	-5.15	1.18	1.24
1	GG	20	ALA	C-O	-5.15	1.18	1.24
1	OK	23	ALA	C-O	-5.15	1.18	1.24
3	YX	819	PRO	C-O	-5.15	1.18	1.23
1	Dv	64	GLY	C-O	-5.15	1.17	1.23
1	Gv	80	ILE	C-O	-5.15	1.18	1.24
3	Ym	819	PRO	C-O	-5.15	1.18	1.23
1	Gp	80	ILE	C-O	-5.15	1.18	1.24
1	LM	83	ARG	C-O	-5.15	1.18	1.24
3	Y3	819	PRO	C-O	-5.15	1.18	1.23
1	I6	46	VAL	C-O	-5.15	1.18	1.24
1	IP	34	ARG	C-O	-5.15	1.17	1.24
1	D0	77	ALA	C-O	-5.15	1.17	1.23
1	BK	57	VAL	C-O	-5.15	1.18	1.24
1	Ag	25	ASP	C-O	-5.15	1.18	1.24
1	NY	48	VAL	C-O	-5.15	1.18	1.24
1	Gv	11	MET	C-O	-5.15	1.17	1.23
1	Gq	80	ILE	C-O	-5.15	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Ls	60	ALA	C-O	-5.15	1.18	1.24
1	Dj	77	ALA	C-O	-5.15	1.17	1.23
1	AD	47	THR	C-O	-5.15	1.17	1.24
1	AS	47	THR	C-O	-5.15	1.17	1.24
1	Ah	47	THR	C-O	-5.15	1.17	1.24
1	Aw	47	THR	C-O	-5.15	1.17	1.24
1	BD	57	VAL	C-O	-5.14	1.18	1.24
1	GD	11	MET	C-O	-5.14	1.17	1.23
3	YB	819	PRO	C-O	-5.14	1.18	1.23
1	B3	57	VAL	C-O	-5.14	1.18	1.24
1	G4	11	MET	C-O	-5.14	1.17	1.23
1	L5	81	ILE	C-O	-5.14	1.18	1.24
1	N4	48	VAL	C-O	-5.14	1.18	1.24
1	G7	11	MET	C-O	-5.14	1.17	1.23
1	O0	23	ALA	C-O	-5.14	1.18	1.24
1	JQ	47	THR	C-O	-5.14	1.17	1.24
3	YQ	819	PRO	C-O	-5.14	1.18	1.23
1	BG	57	VAL	C-O	-5.14	1.18	1.24
1	BI	57	VAL	C-O	-5.14	1.18	1.24
1	LK	81	ILE	C-O	-5.14	1.18	1.24
1	Bh	57	VAL	C-O	-5.14	1.18	1.24
1	BV	57	VAL	C-O	-5.14	1.18	1.24
1	Gb	20	ALA	C-O	-5.14	1.18	1.24
1	LU	83	ARG	C-O	-5.14	1.18	1.24
1	Gw	20	ALA	C-O	-5.14	1.18	1.24
3	Yu	819	PRO	C-O	-5.14	1.18	1.23
1	Bk	57	VAL	C-O	-5.14	1.18	1.24
1	Gq	11	MET	C-O	-5.14	1.17	1.23
1	Jj	47	THR	C-O	-5.14	1.17	1.24
1	Lj	83	ARG	C-O	-5.14	1.18	1.24
1	DE	77	ALA	C-O	-5.14	1.17	1.23
1	LE	81	ILE	C-O	-5.14	1.18	1.24
1	D5	77	ALA	C-O	-5.14	1.17	1.23
1	I3	37	GLY	C-O	-5.14	1.18	1.24
1	G7	20	ALA	C-O	-5.14	1.18	1.24
1	I6	37	GLY	C-O	-5.14	1.18	1.24
1	BS	57	VAL	C-O	-5.14	1.18	1.24
1	HR	50	VAL	C-O	-5.14	1.17	1.23
1	LT	81	ILE	C-O	-5.14	1.18	1.24
1	AK	47	THR	C-O	-5.14	1.17	1.24
1	GM	20	ALA	C-O	-5.14	1.18	1.24
1	IL	37	GLY	C-O	-5.14	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	NF	48	VAL	C-O	-5.14	1.18	1.24
1	Di	77	ALA	C-O	-5.14	1.17	1.23
1	Gi	80	ILE	C-O	-5.14	1.18	1.24
1	Hg	50	VAL	C-O	-5.14	1.17	1.23
1	Ia	37	GLY	C-O	-5.14	1.18	1.24
1	Gx	80	ILE	C-O	-5.14	1.18	1.24
1	Hv	50	VAL	C-O	-5.14	1.17	1.23
1	Lt	60	ALA	C-O	-5.14	1.18	1.24
3	Yk	776	ALA	C-O	-5.14	1.17	1.24
1	Ip	37	GLY	C-O	-5.14	1.18	1.24
1	Nj	48	VAL	C-O	-5.14	1.18	1.24
1	L4	81	ILE	C-O	-5.14	1.18	1.24
1	LJ	81	ILE	C-O	-5.14	1.18	1.24
1	IV	37	GLY	C-O	-5.14	1.18	1.24
1	Bl	57	VAL	C-O	-5.14	1.18	1.24
1	GA	80	ILE	C-O	-5.14	1.18	1.24
1	G4	20	ALA	C-O	-5.14	1.18	1.24
3	YR	819	PRO	C-O	-5.14	1.18	1.23
1	GJ	20	ALA	C-O	-5.14	1.18	1.24
1	II	48	VAL	C-O	-5.14	1.18	1.24
1	Ne	48	VAL	C-O	-5.14	1.18	1.24
3	YV	819	PRO	C-O	-5.14	1.18	1.23
1	Lb	60	ALA	C-O	-5.14	1.18	1.24
1	Nt	48	VAL	C-O	-5.14	1.18	1.24
3	Yk	819	PRO	C-O	-5.14	1.18	1.23
3	YP	776	ALA	C-O	-5.14	1.17	1.24
1	Dg	64	GLY	C-O	-5.14	1.17	1.23
1	Bw	57	VAL	C-O	-5.14	1.18	1.24
1	NE	48	VAL	C-O	-5.14	1.18	1.24
1	C2	9	LEU	C-O	-5.14	1.18	1.24
1	C0	9	LEU	C-O	-5.14	1.18	1.24
1	AI	49	LEU	C-O	-5.14	1.17	1.24
1	CH	9	LEU	C-O	-5.14	1.18	1.24
1	Le	83	ARG	C-O	-5.14	1.18	1.24
1	LW	81	ILE	C-O	-5.14	1.18	1.24
1	CU	9	LEU	C-O	-5.14	1.18	1.24
1	FU	28	THR	C-O	-5.14	1.18	1.24
1	Na	48	VAL	C-O	-5.14	1.18	1.24
1	At	47	THR	C-O	-5.14	1.17	1.24
1	Lv	60	ALA	C-O	-5.14	1.18	1.24
1	Nk	48	VAL	C-O	-5.14	1.18	1.24
1	Cj	9	LEU	C-O	-5.14	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Jj	23	ALA	C-O	-5.14	1.18	1.24
1	Np	48	VAL	C-O	-5.14	1.18	1.24
1	NL	48	VAL	C-O	-5.14	1.18	1.24
1	NB	48	VAL	C-O	-5.13	1.18	1.24
1	Nf	48	VAL	C-O	-5.13	1.18	1.24
1	Aq	46	VAL	C-O	-5.13	1.18	1.24
1	C1	9	LEU	C-O	-5.13	1.18	1.24
1	GS	11	MET	C-O	-5.13	1.17	1.23
1	IS	46	VAL	C-O	-5.13	1.18	1.24
1	CG	9	LEU	C-O	-5.13	1.18	1.24
1	Du	64	GLY	C-O	-5.13	1.17	1.23
1	NA	48	VAL	C-O	-5.13	1.18	1.24
1	I8	37	GLY	C-O	-5.13	1.18	1.24
1	J9	47	THR	C-O	-5.13	1.17	1.24
3	YT	819	PRO	C-O	-5.13	1.18	1.23
1	JO	47	THR	C-O	-5.13	1.17	1.24
1	LL	81	ILE	C-O	-5.13	1.18	1.24
1	Ge	80	ILE	C-O	-5.13	1.18	1.24
1	Gh	11	MET	C-O	-5.13	1.17	1.23
1	Gb	11	MET	C-O	-5.13	1.17	1.23
1	Ic	37	GLY	C-O	-5.13	1.18	1.24
1	Jd	47	THR	C-O	-5.13	1.17	1.24
1	Ix	37	GLY	C-O	-5.13	1.18	1.24
1	Ow	23	ALA	C-O	-5.13	1.18	1.24
1	Js	47	THR	C-O	-5.13	1.17	1.24
1	C5	9	LEU	C-O	-5.13	1.18	1.24
1	D9	77	ALA	C-O	-5.13	1.17	1.23
1	CK	9	LEU	C-O	-5.13	1.18	1.24
1	Dd	77	ALA	C-O	-5.13	1.17	1.23
1	Co	9	LEU	C-O	-5.13	1.18	1.24
1	Ds	77	ALA	C-O	-5.13	1.17	1.23
1	IC	37	GLY	C-O	-5.13	1.18	1.24
1	IP	46	VAL	C-O	-5.13	1.18	1.24
1	CM	9	LEU	C-O	-5.13	1.18	1.24
1	Cb	9	LEU	C-O	-5.13	1.18	1.24
1	Cx	9	LEU	C-O	-5.13	1.18	1.24
1	Iv	37	GLY	C-O	-5.13	1.18	1.24
1	ID	46	VAL	C-O	-5.13	1.18	1.24
1	C3	9	LEU	C-O	-5.13	1.18	1.24
1	E0	53	GLU	C-O	-5.13	1.17	1.23
1	G8	80	ILE	C-O	-5.13	1.18	1.24
1	FQ	28	THR	C-O	-5.13	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	CI	9	LEU	C-O	-5.13	1.18	1.24
1	Ig	46	VAL	C-O	-5.13	1.18	1.24
1	Gc	80	ILE	C-O	-5.13	1.18	1.24
1	Cm	9	LEU	C-O	-5.13	1.18	1.24
1	Gr	80	ILE	C-O	-5.13	1.18	1.24
1	Nu	48	VAL	C-O	-5.12	1.18	1.24
1	HA	50	VAL	C-O	-5.12	1.17	1.23
1	G3	80	ILE	C-O	-5.12	1.18	1.24
1	L2	81	ILE	C-O	-5.12	1.18	1.24
1	N9	48	VAL	C-O	-5.12	1.18	1.24
1	HP	50	VAL	C-O	-5.12	1.17	1.23
1	GI	80	ILE	C-O	-5.12	1.18	1.24
1	LG	83	ARG	C-O	-5.12	1.18	1.24
1	LH	81	ILE	C-O	-5.12	1.18	1.24
1	NO	48	VAL	C-O	-5.12	1.18	1.24
1	GX	80	ILE	C-O	-5.12	1.18	1.24
1	Ob	23	ALA	C-O	-5.12	1.18	1.24
1	Gm	80	ILE	C-O	-5.12	1.18	1.24
1	Ll	81	ILE	C-O	-5.12	1.18	1.24
1	BB	57	VAL	C-O	-5.12	1.18	1.24
1	IA	37	GLY	C-O	-5.12	1.18	1.24
1	JE	47	THR	C-O	-5.12	1.17	1.24
1	BQ	57	VAL	C-O	-5.12	1.18	1.24
1	IP	37	GLY	C-O	-5.12	1.18	1.24
1	JT	47	THR	C-O	-5.12	1.17	1.24
1	JJ	47	THR	C-O	-5.12	1.17	1.24
1	Bg	57	VAL	C-O	-5.12	1.18	1.24
1	Ie	37	GLY	C-O	-5.12	1.18	1.24
1	GZ	80	ILE	C-O	-5.12	1.18	1.24
1	LV	81	ILE	C-O	-5.12	1.18	1.24
1	Jb	47	THR	C-O	-5.12	1.17	1.24
3	Yb	867	ALA	C-O	-5.12	1.18	1.24
1	It	37	GLY	C-O	-5.12	1.18	1.24
3	Yq	867	ALA	C-O	-5.12	1.18	1.24
1	L5	83	ARG	C-O	-5.12	1.18	1.24
1	B0	57	VAL	C-O	-5.12	1.18	1.24
1	C7	9	LEU	C-O	-5.12	1.18	1.24
1	G6	11	MET	C-O	-5.12	1.17	1.23
1	LK	83	ARG	C-O	-5.12	1.18	1.24
1	BF	57	VAL	C-O	-5.12	1.18	1.24
1	GL	11	MET	C-O	-5.12	1.17	1.23
3	YO	867	ALA	C-O	-5.12	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	LZ	83	ARG	C-O	-5.12	1.18	1.24
1	Ga	11	MET	C-O	-5.12	1.17	1.23
1	Lo	83	ARG	C-O	-5.12	1.18	1.24
1	Cq	9	LEU	C-O	-5.12	1.18	1.24
1	Gp	11	MET	C-O	-5.12	1.17	1.23
1	Gw	11	MET	C-O	-5.12	1.17	1.23
3	Yw	867	ALA	C-O	-5.12	1.18	1.24
1	Cm	39	GLN	C-O	-5.12	1.17	1.24
1	BE	57	VAL	C-O	-5.12	1.18	1.24
1	CB	9	LEU	C-O	-5.12	1.18	1.24
1	IE	37	GLY	C-O	-5.12	1.18	1.24
1	LB	81	ILE	C-O	-5.12	1.18	1.24
1	B5	57	VAL	C-O	-5.12	1.18	1.24
1	BT	57	VAL	C-O	-5.12	1.18	1.24
1	CQ	9	LEU	C-O	-5.12	1.18	1.24
1	IT	37	GLY	C-O	-5.12	1.18	1.24
1	LQ	81	ILE	C-O	-5.12	1.18	1.24
1	II	37	GLY	C-O	-5.12	1.18	1.24
1	Bi	57	VAL	C-O	-5.12	1.18	1.24
1	Cf	9	LEU	C-O	-5.12	1.18	1.24
1	Ii	37	GLY	C-O	-5.12	1.18	1.24
1	Ii	46	VAL	C-O	-5.12	1.18	1.24
1	Lf	81	ILE	C-O	-5.12	1.18	1.24
1	IX	37	GLY	C-O	-5.12	1.18	1.24
1	Cu	9	LEU	C-O	-5.12	1.18	1.24
1	Ix	46	VAL	C-O	-5.12	1.18	1.24
1	Lu	81	ILE	C-O	-5.12	1.18	1.24
1	Im	37	GLY	C-O	-5.12	1.18	1.24
1	Ir	81	ILE	C-O	-5.12	1.18	1.24
1	IA	46	VAL	C-O	-5.12	1.18	1.24
1	LD	60	ALA	C-O	-5.12	1.18	1.24
1	N0	48	VAL	C-O	-5.12	1.18	1.24
1	GS	20	ALA	C-O	-5.12	1.18	1.24
1	LJ	60	ALA	C-O	-5.12	1.18	1.24
1	LF	81	ILE	C-O	-5.12	1.18	1.24
1	He	50	VAL	C-O	-5.12	1.17	1.23
1	Li	81	ILE	C-O	-5.12	1.18	1.24
1	EU	20	ALA	C-O	-5.12	1.18	1.24
1	NU	48	VAL	C-O	-5.12	1.18	1.24
1	Ht	50	VAL	C-O	-5.12	1.17	1.23
1	Jp	23	ALA	C-O	-5.12	1.18	1.24
1	AC	47	THR	C-O	-5.11	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L1	81	ILE	C-O	-5.11	1.18	1.24
1	AR	47	THR	C-O	-5.11	1.17	1.24
1	EQ	12	ILE	C-O	-5.11	1.18	1.24
1	LG	81	ILE	C-O	-5.11	1.18	1.24
1	Ag	47	THR	C-O	-5.11	1.17	1.24
1	Dg	77	ALA	C-O	-5.11	1.17	1.23
1	DX	77	ALA	C-O	-5.11	1.17	1.23
1	EW	12	ILE	C-O	-5.11	1.18	1.24
1	Av	47	THR	C-O	-5.11	1.17	1.24
1	Br	57	VAL	C-O	-5.11	1.18	1.24
1	JU	47	THR	C-O	-5.11	1.17	1.24
3	YE	819	PRO	C-O	-5.11	1.18	1.23
3	Y4	867	ALA	C-O	-5.11	1.18	1.24
1	E6	12	ILE	C-O	-5.11	1.18	1.24
1	L9	60	ALA	C-O	-5.11	1.18	1.24
3	YJ	867	ALA	C-O	-5.11	1.18	1.24
1	IL	46	VAL	C-O	-5.11	1.18	1.24
1	IL	48	VAL	C-O	-5.11	1.18	1.24
1	LO	60	ALA	C-O	-5.11	1.18	1.24
1	IX	46	VAL	C-O	-5.11	1.18	1.24
1	IX	48	VAL	C-O	-5.11	1.18	1.24
1	Ia	46	VAL	C-O	-5.11	1.18	1.24
1	Im	48	VAL	C-O	-5.11	1.18	1.24
1	Ip	46	VAL	C-O	-5.11	1.18	1.24
1	BC	57	VAL	C-O	-5.11	1.18	1.24
3	YB	867	ALA	C-O	-5.11	1.18	1.24
1	D3	77	ALA	C-O	-5.11	1.17	1.23
1	BR	57	VAL	C-O	-5.11	1.18	1.24
3	YQ	867	ALA	C-O	-5.11	1.18	1.24
1	DG	77	ALA	C-O	-5.11	1.17	1.23
1	DK	77	ALA	C-O	-5.11	1.17	1.23
1	FO	28	THR	C-O	-5.11	1.18	1.24
1	GN	80	ILE	C-O	-5.11	1.18	1.24
3	Yf	867	ALA	C-O	-5.11	1.18	1.24
1	DZ	77	ALA	C-O	-5.11	1.17	1.23
1	EV	53	GLU	C-O	-5.11	1.17	1.23
1	OZ	23	ALA	C-O	-5.11	1.18	1.24
1	Dc	77	ALA	C-O	-5.11	1.17	1.23
3	Yu	867	ALA	C-O	-5.11	1.18	1.24
1	Oo	23	ALA	C-O	-5.11	1.18	1.24
1	DI	77	ALA	C-O	-5.11	1.17	1.23
1	Lm	97	GLN	CD-OE1	5.11	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	CE	9	LEU	C-O	-5.11	1.18	1.24
1	A4	47	THR	C-O	-5.11	1.17	1.24
1	A7	47	THR	C-O	-5.11	1.17	1.24
1	E9	12	ILE	C-O	-5.11	1.18	1.24
1	CT	9	LEU	C-O	-5.11	1.18	1.24
1	AJ	47	THR	C-O	-5.11	1.17	1.24
1	EG	12	ILE	C-O	-5.11	1.18	1.24
1	AM	47	THR	C-O	-5.11	1.17	1.24
1	EO	12	ILE	C-O	-5.11	1.18	1.24
3	Yf	819	PRO	C-O	-5.11	1.18	1.23
1	CZ	9	LEU	C-O	-5.11	1.18	1.24
1	Ab	47	THR	C-O	-5.11	1.17	1.24
1	LU	81	ILE	C-O	-5.11	1.18	1.24
1	An	47	THR	C-O	-5.11	1.17	1.24
1	Lj	81	ILE	C-O	-5.11	1.18	1.24
1	CC	9	LEU	C-O	-5.11	1.18	1.24
1	EB	20	ALA	C-O	-5.11	1.18	1.24
1	JB	47	THR	C-O	-5.11	1.17	1.24
1	H1	50	VAL	C-O	-5.11	1.17	1.23
1	C6	9	LEU	C-O	-5.11	1.18	1.24
1	CR	9	LEU	C-O	-5.11	1.18	1.24
1	EQ	20	ALA	C-O	-5.11	1.18	1.24
1	LP	81	ILE	C-O	-5.11	1.18	1.24
1	LQ	60	ALA	C-O	-5.11	1.18	1.24
3	YP	867	ALA	C-O	-5.11	1.18	1.24
1	NJ	48	VAL	C-O	-5.11	1.18	1.24
1	OH	23	ALA	C-O	-5.11	1.18	1.24
1	CL	9	LEU	C-O	-5.11	1.18	1.24
1	HL	50	VAL	C-O	-5.11	1.17	1.23
1	Cg	9	LEU	C-O	-5.11	1.18	1.24
1	Ef	20	ALA	C-O	-5.11	1.18	1.24
1	Le	81	ILE	C-O	-5.11	1.18	1.24
1	AY	47	THR	C-O	-5.11	1.17	1.24
1	HV	50	VAL	C-O	-5.11	1.17	1.23
1	Ca	9	LEU	C-O	-5.11	1.18	1.24
1	Cv	9	LEU	C-O	-5.11	1.18	1.24
1	Eu	20	ALA	C-O	-5.11	1.18	1.24
1	Ju	47	THR	C-O	-5.11	1.17	1.24
1	Lt	81	ILE	C-O	-5.11	1.18	1.24
1	Nw	48	VAL	C-O	-5.11	1.18	1.24
1	Hk	50	VAL	C-O	-5.11	1.17	1.23
1	Ij	37	GLY	C-O	-5.11	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	El	20	ALA	C-O	-5.11	1.18	1.24
1	IB	37	GLY	C-O	-5.11	1.18	1.24
1	I5	37	GLY	C-O	-5.11	1.18	1.24
1	I8	48	VAL	C-O	-5.11	1.18	1.24
1	IT	46	VAL	C-O	-5.11	1.18	1.24
1	NR	48	VAL	C-O	-5.11	1.18	1.24
1	IK	37	GLY	C-O	-5.11	1.18	1.24
1	IN	37	GLY	C-O	-5.11	1.18	1.24
1	IN	48	VAL	C-O	-5.11	1.18	1.24
1	Ig	48	VAL	C-O	-5.11	1.18	1.24
1	Lh	81	ILE	C-O	-5.11	1.18	1.24
3	Yi	819	PRO	C-O	-5.11	1.18	1.23
1	Ip	48	VAL	C-O	-5.11	1.18	1.24
1	I7	37	GLY	C-O	-5.10	1.18	1.24
1	IM	37	GLY	C-O	-5.10	1.18	1.24
1	AX	47	THR	C-O	-5.10	1.17	1.24
1	CW	9	LEU	C-O	-5.10	1.18	1.24
1	Ib	37	GLY	C-O	-5.10	1.18	1.24
1	Am	47	THR	C-O	-5.10	1.17	1.24
1	Cl	9	LEU	C-O	-5.10	1.18	1.24
1	Gp	20	ALA	C-O	-5.10	1.18	1.24
1	Iq	37	GLY	C-O	-5.10	1.18	1.24
1	DC	77	ALA	C-O	-5.10	1.17	1.23
1	E4	12	ILE	C-O	-5.10	1.18	1.24
1	I2	37	GLY	C-O	-5.10	1.18	1.24
1	GP	80	ILE	C-O	-5.10	1.18	1.24
1	LS	60	ALA	C-O	-5.10	1.18	1.24
1	IH	37	GLY	C-O	-5.10	1.18	1.24
1	Ig	37	GLY	C-O	-5.10	1.18	1.24
1	AV	47	THR	C-O	-5.10	1.17	1.24
1	EY	12	ILE	C-O	-5.10	1.18	1.24
1	Ec	20	ALA	C-O	-5.10	1.18	1.24
1	Dv	77	ALA	C-O	-5.10	1.17	1.23
1	Fk	28	THR	C-O	-5.10	1.18	1.24
1	Il	37	GLY	C-O	-5.10	1.18	1.24
1	Ln	60	ALA	C-O	-5.10	1.18	1.24
1	Eq	20	ALA	C-O	-5.10	1.18	1.24
1	LD	81	ILE	C-O	-5.10	1.18	1.24
1	A5	47	THR	C-O	-5.10	1.17	1.24
1	L0	81	ILE	C-O	-5.10	1.18	1.24
1	IR	46	VAL	C-O	-5.10	1.18	1.24
1	LS	81	ILE	C-O	-5.10	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	NG	48	VAL	C-O	-5.10	1.18	1.24
1	AN	47	THR	C-O	-5.10	1.17	1.24
1	Iv	46	VAL	C-O	-5.10	1.18	1.24
1	D2	77	ALA	C-O	-5.10	1.17	1.23
1	H2	50	VAL	C-O	-5.10	1.17	1.23
1	N3	48	VAL	C-O	-5.10	1.18	1.24
1	N6	48	VAL	C-O	-5.10	1.18	1.24
1	Ce	9	LEU	C-O	-5.10	1.18	1.24
1	Ff	28	THR	C-O	-5.10	1.18	1.24
1	HW	50	VAL	C-O	-5.10	1.17	1.23
1	IW	37	GLY	C-O	-5.10	1.18	1.24
1	NX	48	VAL	C-O	-5.10	1.18	1.24
1	BU	57	VAL	C-O	-5.10	1.18	1.24
1	Fu	28	THR	C-O	-5.10	1.18	1.24
1	Hl	50	VAL	C-O	-5.10	1.17	1.23
1	Bj	57	VAL	C-O	-5.10	1.18	1.24
1	NI	48	VAL	C-O	-5.10	1.18	1.24
1	Nm	48	VAL	C-O	-5.10	1.18	1.24
1	A3	47	THR	C-O	-5.10	1.17	1.24
1	I3	46	VAL	C-O	-5.10	1.18	1.24
1	B8	57	VAL	C-O	-5.10	1.18	1.24
1	L0	83	ARG	C-O	-5.10	1.18	1.24
1	AI	47	THR	C-O	-5.10	1.17	1.24
1	BN	57	VAL	C-O	-5.10	1.18	1.24
1	LF	83	ARG	C-O	-5.10	1.18	1.24
1	Bc	57	VAL	C-O	-5.10	1.18	1.24
3	Yx	819	PRO	C-O	-5.10	1.18	1.23
1	IE	46	VAL	C-O	-5.10	1.18	1.24
1	I1	37	GLY	C-O	-5.10	1.18	1.24
1	C8	9	LEU	C-O	-5.10	1.18	1.24
1	IG	37	GLY	C-O	-5.10	1.18	1.24
1	CN	9	LEU	C-O	-5.10	1.18	1.24
1	AE	47	THR	C-O	-5.09	1.17	1.24
1	DA	77	ALA	C-O	-5.09	1.17	1.23
1	N8	48	VAL	C-O	-5.09	1.18	1.24
1	N9	52	GLY	C-O	-5.09	1.18	1.23
1	AT	47	THR	C-O	-5.09	1.17	1.24
1	DP	77	ALA	C-O	-5.09	1.17	1.23
1	EN	20	ALA	C-O	-5.09	1.18	1.24
1	Ai	47	THR	C-O	-5.09	1.17	1.24
1	De	77	ALA	C-O	-5.09	1.17	1.23
1	CX	9	LEU	C-O	-5.09	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Nd	52	GLY	C-O	-5.09	1.18	1.23
1	Lt	83	ARG	C-O	-5.09	1.18	1.24
1	En	12	ILE	C-O	-5.09	1.18	1.24
1	N1	48	VAL	C-O	-5.09	1.18	1.24
1	IH	46	VAL	C-O	-5.09	1.18	1.24
1	IW	46	VAL	C-O	-5.09	1.18	1.24
1	NV	48	VAL	C-O	-5.09	1.18	1.24
1	Gm	11	MET	C-O	-5.09	1.17	1.23
1	Il	46	VAL	C-O	-5.09	1.18	1.24
1	DR	77	ALA	C-O	-5.09	1.17	1.23
3	Y2	867	ALA	C-O	-5.09	1.18	1.24
1	FT	28	THR	C-O	-5.09	1.18	1.24
1	Nh	48	VAL	C-O	-5.09	1.18	1.24
1	Ni	48	VAL	C-O	-5.09	1.18	1.24
1	Nb	48	VAL	C-O	-5.09	1.18	1.24
1	Lk	81	ILE	C-O	-5.09	1.18	1.24
1	Nq	48	VAL	C-O	-5.09	1.18	1.24
1	AB	47	THR	C-O	-5.09	1.17	1.24
1	GA	20	ALA	C-O	-5.09	1.18	1.24
1	I1	46	VAL	C-O	-5.09	1.18	1.24
1	N5	48	VAL	C-O	-5.09	1.18	1.24
1	I0	46	VAL	C-O	-5.09	1.18	1.24
1	AQ	47	THR	C-O	-5.09	1.17	1.24
1	GP	20	ALA	C-O	-5.09	1.18	1.24
1	IR	81	ILE	C-O	-5.09	1.18	1.24
1	NS	52	GLY	C-O	-5.09	1.18	1.23
1	IG	46	VAL	C-O	-5.09	1.18	1.24
3	YH	867	ALA	C-O	-5.09	1.18	1.24
1	IF	46	VAL	C-O	-5.09	1.18	1.24
1	NN	48	VAL	C-O	-5.09	1.18	1.24
1	Af	47	THR	C-O	-5.09	1.17	1.24
1	Ie	46	VAL	C-O	-5.09	1.18	1.24
1	NZ	48	VAL	C-O	-5.09	1.18	1.24
1	IU	46	VAL	C-O	-5.09	1.18	1.24
1	Au	47	THR	C-O	-5.09	1.17	1.24
1	Bv	57	VAL	C-O	-5.09	1.18	1.24
1	Gt	20	ALA	C-O	-5.09	1.18	1.24
1	No	48	VAL	C-O	-5.09	1.18	1.24
1	Ej	53	GLU	C-O	-5.09	1.17	1.23
1	Ij	46	VAL	C-O	-5.09	1.18	1.24
1	DM	77	ALA	C-O	-5.09	1.17	1.23
1	HC	50	VAL	C-O	-5.09	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I5	46	VAL	C-O	-5.09	1.18	1.24
1	H6	50	VAL	C-O	-5.09	1.17	1.23
1	N7	48	VAL	C-O	-5.09	1.18	1.24
1	NP	48	VAL	C-O	-5.09	1.18	1.24
1	NS	48	VAL	C-O	-5.09	1.18	1.24
1	NM	48	VAL	C-O	-5.09	1.18	1.24
1	Ci	9	LEU	C-O	-5.09	1.18	1.24
1	Ih	46	VAL	C-O	-5.09	1.18	1.24
1	Ic	48	VAL	C-O	-5.09	1.18	1.24
1	Ir	48	VAL	C-O	-5.09	1.18	1.24
1	LN	81	ILE	C-O	-5.09	1.18	1.24
1	J4	47	THR	C-O	-5.09	1.18	1.24
3	Y7	867	ALA	C-O	-5.09	1.18	1.24
1	NQ	48	VAL	C-O	-5.09	1.18	1.24
1	AH	47	THR	C-O	-5.09	1.17	1.24
3	YM	867	ALA	C-O	-5.09	1.18	1.24
1	Gi	20	ALA	C-O	-5.09	1.18	1.24
1	Hi	50	VAL	C-O	-5.09	1.17	1.23
1	AZ	47	THR	C-O	-5.09	1.17	1.24
1	Gc	20	ALA	C-O	-5.09	1.18	1.24
1	Bx	57	VAL	C-O	-5.09	1.18	1.24
1	Jn	47	THR	C-O	-5.09	1.18	1.24
1	Gr	20	ALA	C-O	-5.09	1.18	1.24
1	JY	47	THR	C-O	-5.09	1.18	1.24
1	I4	37	GLY	C-O	-5.08	1.18	1.24
1	N2	48	VAL	C-O	-5.08	1.18	1.24
1	IR	37	GLY	C-O	-5.08	1.18	1.24
1	JP	47	THR	C-O	-5.08	1.18	1.24
1	IJ	37	GLY	C-O	-5.08	1.18	1.24
1	NH	48	VAL	C-O	-5.08	1.18	1.24
1	Lx	81	ILE	C-O	-5.08	1.18	1.24
1	Nl	48	VAL	C-O	-5.08	1.18	1.24
1	A1	47	THR	C-O	-5.08	1.17	1.24
1	J5	47	THR	C-O	-5.08	1.18	1.24
1	HI	50	VAL	C-O	-5.08	1.17	1.23
1	II	46	VAL	C-O	-5.08	1.18	1.24
1	JK	47	THR	C-O	-5.08	1.18	1.24
1	El	12	ILE	C-O	-5.08	1.18	1.24
1	LA	81	ILE	C-O	-5.08	1.18	1.24
1	I4	46	VAL	C-O	-5.08	1.18	1.24
1	IJ	46	VAL	C-O	-5.08	1.18	1.24
1	Ki	11	MET	C-O	-5.08	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hb	50	VAL	C-O	-5.08	1.17	1.23
1	ND	52	GLY	C-O	-5.08	1.18	1.23
1	B2	57	VAL	C-O	-5.08	1.18	1.24
1	BH	57	VAL	C-O	-5.08	1.18	1.24
1	Bf	57	VAL	C-O	-5.08	1.18	1.24
1	Nh	52	GLY	C-O	-5.08	1.18	1.23
1	Ed	12	ILE	C-O	-5.08	1.18	1.24
1	Bu	57	VAL	C-O	-5.08	1.18	1.24
1	Nw	52	GLY	C-O	-5.08	1.18	1.23
1	Ej	20	ALA	C-O	-5.08	1.18	1.24
1	Fl	97	GLN	CD-OE1	5.08	1.33	1.23
1	JD	47	THR	C-O	-5.08	1.18	1.24
3	YA	867	ALA	C-O	-5.08	1.18	1.24
1	Gg	20	ALA	C-O	-5.08	1.18	1.24
3	Ye	867	ALA	C-O	-5.08	1.18	1.24
1	IZ	37	GLY	C-O	-5.08	1.18	1.24
3	YV	867	ALA	C-O	-5.08	1.18	1.24
3	YW	867	ALA	C-O	-5.08	1.18	1.24
1	La	81	ILE	C-O	-5.08	1.18	1.24
1	Gv	20	ALA	C-O	-5.08	1.18	1.24
1	Jw	47	THR	C-O	-5.08	1.18	1.24
3	Yt	867	ALA	C-O	-5.08	1.18	1.24
1	Gm	20	ALA	C-O	-5.08	1.18	1.24
1	Io	37	GLY	C-O	-5.08	1.18	1.24
3	Yl	867	ALA	C-O	-5.08	1.18	1.24
1	Lp	81	ILE	C-O	-5.08	1.18	1.24
1	Jv	17	LEU	C-O	-5.08	1.18	1.24
1	J0	47	THR	C-O	-5.08	1.18	1.24
1	Ge	20	ALA	C-O	-5.08	1.18	1.24
1	Jf	47	THR	C-O	-5.08	1.18	1.24
1	Ng	48	VAL	C-O	-5.08	1.18	1.24
1	GV	20	ALA	C-O	-5.08	1.18	1.24
1	Nv	48	VAL	C-O	-5.08	1.18	1.24
1	Gk	20	ALA	C-O	-5.08	1.18	1.24
1	D1	77	ALA	C-O	-5.08	1.17	1.23
1	A9	47	THR	C-O	-5.08	1.17	1.24
1	G8	20	ALA	C-O	-5.08	1.18	1.24
1	AO	47	THR	C-O	-5.08	1.17	1.24
1	IN	81	ILE	C-O	-5.08	1.18	1.24
1	Ad	47	THR	C-O	-5.08	1.17	1.24
1	Nc	50	VAL	C-O	-5.08	1.17	1.23
1	Ak	47	THR	C-O	-5.08	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	As	47	THR	C-O	-5.08	1.17	1.24
1	F9	28	THR	C-O	-5.07	1.18	1.24
1	HH	50	VAL	C-O	-5.07	1.17	1.23
1	Fd	28	THR	C-O	-5.07	1.18	1.24
1	Aq	47	THR	C-O	-5.07	1.17	1.24
1	E8	20	ALA	C-O	-5.07	1.18	1.24
1	JH	47	THR	C-O	-5.07	1.18	1.24
1	BZ	57	VAL	C-O	-5.07	1.18	1.24
1	Es	12	ILE	C-O	-5.07	1.18	1.24
1	Hp	50	VAL	C-O	-5.07	1.17	1.23
1	Bb	57	VAL	C-O	-5.07	1.18	1.24
1	Kx	11	MET	C-O	-5.07	1.18	1.23
1	NC	48	VAL	C-O	-5.07	1.18	1.24
1	I8	81	ILE	C-O	-5.07	1.18	1.24
1	I9	37	GLY	C-O	-5.07	1.18	1.24
1	DQ	77	ALA	C-O	-5.07	1.17	1.23
1	IO	37	GLY	C-O	-5.07	1.18	1.24
1	Ic	81	ILE	C-O	-5.07	1.18	1.24
1	Id	37	GLY	C-O	-5.07	1.18	1.24
1	Du	77	ALA	C-O	-5.07	1.17	1.23
1	Ik	37	GLY	C-O	-5.07	1.18	1.24
1	GE	20	ALA	C-O	-5.07	1.18	1.24
1	HD	50	VAL	C-O	-5.07	1.17	1.23
1	G1	20	ALA	C-O	-5.07	1.18	1.24
1	F0	28	THR	C-O	-5.07	1.18	1.24
1	I9	46	VAL	C-O	-5.07	1.18	1.24
1	EP	53	GLU	C-O	-5.07	1.17	1.23
1	GT	20	ALA	C-O	-5.07	1.18	1.24
1	IS	23	ALA	C-O	-5.07	1.18	1.24
1	AG	47	THR	C-O	-5.07	1.17	1.24
1	IO	46	VAL	C-O	-5.07	1.18	1.24
1	Hh	50	VAL	C-O	-5.07	1.17	1.23
1	JZ	47	THR	C-O	-5.07	1.18	1.24
1	Ha	50	VAL	C-O	-5.07	1.17	1.23
1	B7	57	VAL	C-O	-5.07	1.18	1.24
1	E7	20	ALA	C-O	-5.07	1.18	1.24
1	BM	57	VAL	C-O	-5.07	1.18	1.24
1	EM	20	ALA	C-O	-5.07	1.18	1.24
1	LX	81	ILE	C-O	-5.07	1.18	1.24
1	Eb	20	ALA	C-O	-5.07	1.18	1.24
1	Ck	9	LEU	C-O	-5.07	1.18	1.24
1	Do	77	ALA	C-O	-5.07	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Dr	77	ALA	C-O	-5.07	1.17	1.23
1	Dl	39	GLN	CD-OE1	5.07	1.33	1.23
1	NO	52	GLY	C-O	-5.06	1.18	1.23
3	Yp	867	ALA	C-O	-5.06	1.18	1.24
1	EB	12	ILE	C-O	-5.06	1.18	1.24
1	I8	46	VAL	C-O	-5.06	1.18	1.24
1	Ef	12	ILE	C-O	-5.06	1.18	1.24
1	EU	53	GLU	C-O	-5.06	1.17	1.23
1	Hc	50	VAL	C-O	-5.06	1.17	1.23
1	Ic	46	VAL	C-O	-5.06	1.18	1.24
1	Eu	12	ILE	C-O	-5.06	1.18	1.24
1	Iv	48	VAL	C-O	-5.06	1.18	1.24
1	Cq	39	GLN	C-O	-5.06	1.17	1.24
1	Hr	50	VAL	C-O	-5.06	1.17	1.23
1	Ir	46	VAL	C-O	-5.06	1.18	1.24
3	XI	700	ASN	CG-OD1	5.06	1.33	1.23
3	Xm	700	ASN	CG-OD1	5.06	1.33	1.23
1	L6	81	ILE	C-O	-5.06	1.18	1.24
1	NT	48	VAL	C-O	-5.06	1.18	1.24
1	NG	52	GLY	C-O	-5.06	1.18	1.23
1	It	46	VAL	C-O	-5.06	1.18	1.24
1	Cp	9	LEU	C-O	-5.06	1.18	1.24
1	L3	81	ILE	C-O	-5.06	1.18	1.24
1	LI	81	ILE	C-O	-5.06	1.18	1.24
1	H4	50	VAL	C-O	-5.06	1.17	1.23
1	A8	47	THR	C-O	-5.06	1.17	1.24
1	H7	50	VAL	C-O	-5.06	1.17	1.23
1	HJ	50	VAL	C-O	-5.06	1.17	1.23
1	HM	50	VAL	C-O	-5.06	1.17	1.23
1	BW	57	VAL	C-O	-5.06	1.18	1.24
1	HY	50	VAL	C-O	-5.06	1.17	1.23
1	Ac	47	THR	C-O	-5.06	1.17	1.24
1	Bw	24	ALA	C-O	-5.06	1.18	1.24
1	Lx	83	ARG	C-O	-5.06	1.18	1.24
1	Hn	50	VAL	C-O	-5.06	1.17	1.23
1	Ar	47	THR	C-O	-5.06	1.17	1.24
1	Bq	57	VAL	C-O	-5.06	1.18	1.24
1	Hq	50	VAL	C-O	-5.06	1.17	1.23
1	Ns	52	GLY	C-O	-5.06	1.18	1.23
1	AA	47	THR	C-O	-5.06	1.17	1.24
1	FB	28	THR	C-O	-5.06	1.18	1.24
1	I7	23	ALA	C-O	-5.06	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L8	81	ILE	C-O	-5.06	1.18	1.24
1	AP	47	THR	C-O	-5.06	1.17	1.24
1	Ji	47	THR	C-O	-5.06	1.18	1.24
1	DV	77	ALA	C-O	-5.06	1.17	1.23
1	Lc	81	ILE	C-O	-5.06	1.18	1.24
1	Hx	50	VAL	C-O	-5.06	1.17	1.23
1	Jx	47	THR	C-O	-5.06	1.18	1.24
1	Ir	37	GLY	C-O	-5.06	1.18	1.24
1	E2	20	ALA	C-O	-5.06	1.18	1.24
1	EH	20	ALA	C-O	-5.06	1.18	1.24
1	EW	20	ALA	C-O	-5.06	1.18	1.24
1	IY	37	GLY	C-O	-5.06	1.18	1.24
1	In	37	GLY	C-O	-5.06	1.18	1.24
1	K0	11	MET	C-O	-5.05	1.18	1.23
1	CU	39	GLN	C-O	-5.05	1.17	1.24
1	Cc	9	LEU	C-O	-5.05	1.18	1.24
1	KU	11	MET	C-O	-5.05	1.18	1.23
1	Hw	50	VAL	C-O	-5.05	1.17	1.23
1	Cr	9	LEU	C-O	-5.05	1.18	1.24
1	Kj	11	MET	C-O	-5.05	1.18	1.23
1	Id	46	VAL	C-O	-5.05	1.18	1.24
1	Ax	47	THR	C-O	-5.05	1.17	1.24
1	Is	46	VAL	C-O	-5.05	1.18	1.24
1	E1	12	ILE	C-O	-5.05	1.18	1.24
1	H9	50	VAL	C-O	-5.05	1.17	1.23
1	J7	47	THR	C-O	-5.05	1.18	1.24
1	EK	20	ALA	C-O	-5.05	1.18	1.24
1	JM	47	THR	C-O	-5.05	1.18	1.24
1	Jh	47	THR	C-O	-5.05	1.18	1.24
1	Hd	50	VAL	C-O	-5.05	1.17	1.23
1	Jq	47	THR	C-O	-5.05	1.18	1.24
1	Df	77	ALA	C-O	-5.05	1.17	1.23
1	FC	28	THR	C-O	-5.05	1.18	1.24
3	Y1	867	ALA	C-O	-5.05	1.18	1.24
3	Y9	867	ALA	C-O	-5.05	1.18	1.24
1	FR	28	THR	C-O	-5.05	1.18	1.24
1	NK	48	VAL	C-O	-5.05	1.18	1.24
3	YG	867	ALA	C-O	-5.05	1.18	1.24
1	KF	11	MET	C-O	-5.05	1.18	1.23
1	Fg	28	THR	C-O	-5.05	1.18	1.24
1	Ni	50	VAL	C-O	-5.05	1.17	1.23
1	Fv	28	THR	C-O	-5.05	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Hm	50	VAL	C-O	-5.05	1.17	1.23
3	Yk	867	ALA	C-O	-5.05	1.18	1.24
1	FE	28	THR	C-O	-5.05	1.18	1.24
1	NQ	52	GLY	C-O	-5.05	1.18	1.23
1	IK	46	VAL	C-O	-5.05	1.18	1.24
1	Fi	28	THR	C-O	-5.05	1.18	1.24
1	CW	39	GLN	C-O	-5.05	1.17	1.24
1	EZ	53	GLU	C-O	-5.05	1.17	1.23
1	Eo	53	GLU	C-O	-5.05	1.17	1.23
1	E2	12	ILE	C-O	-5.05	1.18	1.24
1	J1	47	THR	C-O	-5.05	1.18	1.24
1	IS	19	PRO	C-O	-5.05	1.17	1.24
1	IS	37	GLY	C-O	-5.05	1.18	1.24
1	JG	47	THR	C-O	-5.05	1.18	1.24
1	AW	47	THR	C-O	-5.05	1.18	1.24
1	CX	39	GLN	C-O	-5.05	1.17	1.24
1	JV	47	THR	C-O	-5.05	1.18	1.24
1	NW	48	VAL	C-O	-5.05	1.18	1.24
1	NZ	50	VAL	C-O	-5.05	1.17	1.23
1	Ea	12	ILE	C-O	-5.05	1.18	1.24
1	Al	47	THR	C-O	-5.05	1.18	1.24
1	Ao	47	THR	C-O	-5.05	1.18	1.24
1	Ek	53	GLU	C-O	-5.05	1.17	1.23
1	Gk	26	ALA	C-O	-5.05	1.18	1.24
1	Cs	39	GLN	C-O	-5.05	1.17	1.24
1	Ep	12	ILE	C-O	-5.05	1.18	1.24
1	JF	47	THR	C-O	-5.05	1.18	1.24
1	IQ	37	GLY	C-O	-5.04	1.18	1.24
1	Ct	39	GLN	C-O	-5.04	1.17	1.24
1	GC	20	ALA	C-O	-5.04	1.18	1.24
1	LB	60	ALA	C-O	-5.04	1.18	1.24
1	G3	20	ALA	C-O	-5.04	1.18	1.24
1	JS	47	THR	C-O	-5.04	1.18	1.24
1	FI	28	THR	C-O	-5.04	1.18	1.24
1	GI	20	ALA	C-O	-5.04	1.18	1.24
1	GL	20	ALA	C-O	-5.04	1.18	1.24
1	Li	83	ARG	C-O	-5.04	1.18	1.24
1	IY	46	VAL	C-O	-5.04	1.18	1.24
1	Gt	80	ILE	C-O	-5.04	1.18	1.24
1	EC	20	ALA	C-O	-5.04	1.18	1.24
1	LE	83	ARG	C-O	-5.04	1.18	1.24
1	E5	53	GLU	C-O	-5.04	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J2	47	THR	C-O	-5.04	1.18	1.24
1	A6	47	THR	C-O	-5.04	1.18	1.24
1	C0	39	GLN	C-O	-5.04	1.17	1.24
1	ER	20	ALA	C-O	-5.04	1.18	1.24
1	JR	47	THR	C-O	-5.04	1.18	1.24
1	LT	83	ARG	C-O	-5.04	1.18	1.24
1	EK	53	GLU	C-O	-5.04	1.17	1.23
1	AL	47	THR	C-O	-5.04	1.18	1.24
1	EN	53	GLU	C-O	-5.04	1.17	1.23
1	Eg	20	ALA	C-O	-5.04	1.18	1.24
1	Eg	53	GLU	C-O	-5.04	1.17	1.23
1	EX	20	ALA	C-O	-5.04	1.18	1.24
1	EX	53	GLU	C-O	-5.04	1.17	1.23
1	JW	47	THR	C-O	-5.04	1.18	1.24
1	Da	77	ALA	C-O	-5.04	1.17	1.23
1	Dt	77	ALA	C-O	-5.04	1.17	1.23
1	Ev	20	ALA	C-O	-5.04	1.18	1.24
1	Jl	47	THR	C-O	-5.04	1.18	1.24
1	Is	37	GLY	C-O	-5.04	1.18	1.24
1	EI	20	ALA	C-O	-5.04	1.18	1.24
1	EI	53	GLU	C-O	-5.04	1.17	1.23
1	Em	20	ALA	C-O	-5.04	1.18	1.24
1	E3	20	ALA	C-O	-5.04	1.18	1.24
1	E3	53	GLU	C-O	-5.04	1.17	1.23
1	IC	81	ILE	C-O	-5.04	1.18	1.24
3	YC	867	ALA	C-O	-5.04	1.18	1.24
3	YR	867	ALA	C-O	-5.04	1.18	1.24
1	Iw	19	PRO	C-O	-5.04	1.17	1.24
1	Nk	50	VAL	C-O	-5.04	1.17	1.23
1	IB	23	ALA	C-O	-5.04	1.18	1.24
1	A2	47	THR	C-O	-5.04	1.18	1.24
1	E4	20	ALA	C-O	-5.04	1.18	1.24
1	EJ	20	ALA	C-O	-5.04	1.18	1.24
1	Ng	52	GLY	C-O	-5.04	1.18	1.23
1	EY	20	ALA	C-O	-5.04	1.18	1.24
1	Ev	53	GLU	C-O	-5.04	1.17	1.23
1	Nv	52	GLY	C-O	-5.04	1.18	1.23
1	En	20	ALA	C-O	-5.04	1.18	1.24
1	Dp	77	ALA	C-O	-5.04	1.17	1.23
1	Ij	81	ILE	C-O	-5.04	1.18	1.24
3	YI	867	ALA	C-O	-5.04	1.18	1.24
1	Eh	20	ALA	C-O	-5.04	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	YX	867	ALA	C-O	-5.04	1.18	1.24
1	Ga	20	ALA	C-O	-5.04	1.18	1.24
1	Ew	20	ALA	C-O	-5.04	1.18	1.24
3	Ym	867	ALA	C-O	-5.04	1.18	1.24
3	Y3	867	ALA	C-O	-5.04	1.18	1.24
1	El	53	GLU	C-O	-5.04	1.17	1.23
1	CF	39	GLN	C-O	-5.04	1.17	1.24
1	Jg	47	THR	C-O	-5.04	1.18	1.24
1	IV	46	VAL	C-O	-5.04	1.18	1.24
1	Lv	81	ILE	C-O	-5.04	1.18	1.24
1	Ik	46	VAL	C-O	-5.04	1.18	1.24
1	In	46	VAL	C-O	-5.04	1.18	1.24
1	Fs	28	THR	C-O	-5.04	1.18	1.24
1	JC	47	THR	C-O	-5.04	1.18	1.24
1	H8	50	VAL	C-O	-5.03	1.17	1.23
1	FP	28	THR	C-O	-5.03	1.18	1.24
1	HN	50	VAL	C-O	-5.03	1.17	1.23
1	Og	47	THR	C-O	-5.03	1.17	1.24
1	FV	28	THR	C-O	-5.03	1.18	1.24
1	Ov	47	THR	C-O	-5.03	1.17	1.24
1	No	50	VAL	C-O	-5.03	1.17	1.23
1	DD	56	ALA	N-CA	-5.03	1.40	1.46
3	YN	867	ALA	C-O	-5.03	1.18	1.24
1	CV	9	LEU	C-O	-5.03	1.18	1.24
1	Ed	53	GLU	C-O	-5.03	1.17	1.23
1	Es	53	GLU	C-O	-5.03	1.17	1.23
1	ED	12	ILE	C-O	-5.03	1.18	1.24
1	KE	11	MET	C-O	-5.03	1.18	1.23
1	I3	81	ILE	C-O	-5.03	1.18	1.24
1	E7	12	ILE	C-O	-5.03	1.18	1.24
1	GR	26	ALA	C-O	-5.03	1.18	1.24
1	KT	11	MET	C-O	-5.03	1.18	1.23
1	II	81	ILE	C-O	-5.03	1.18	1.24
1	DL	77	ALA	C-O	-5.03	1.17	1.23
1	If	23	ALA	C-O	-5.03	1.18	1.24
1	Ig	23	ALA	C-O	-5.03	1.18	1.24
1	GZ	20	ALA	C-O	-5.03	1.18	1.24
1	IX	81	ILE	C-O	-5.03	1.18	1.24
1	Eb	12	ILE	C-O	-5.03	1.18	1.24
1	Ja	47	THR	C-O	-5.03	1.18	1.24
1	D6	77	ALA	C-O	-5.03	1.17	1.23
1	EA	53	GLU	C-O	-5.03	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	EE	20	ALA	C-O	-5.03	1.18	1.24
1	H3	50	VAL	C-O	-5.03	1.17	1.23
1	ET	20	ALA	C-O	-5.03	1.18	1.24
1	JL	47	THR	C-O	-5.03	1.18	1.24
1	Ei	20	ALA	C-O	-5.03	1.18	1.24
1	Fc	28	THR	C-O	-5.03	1.18	1.24
1	Ex	20	ALA	C-O	-5.03	1.18	1.24
1	Jp	47	THR	C-O	-5.03	1.18	1.24
1	J6	47	THR	C-O	-5.03	1.18	1.24
1	EE	53	GLU	C-O	-5.03	1.17	1.23
1	OE	47	THR	C-O	-5.03	1.18	1.24
1	E0	20	ALA	C-O	-5.03	1.18	1.24
1	ER	53	GLU	C-O	-5.03	1.17	1.23
1	OT	47	THR	C-O	-5.03	1.18	1.24
1	Lr	81	ILE	C-O	-5.03	1.18	1.24
1	FY	28	THR	C-O	-5.03	1.18	1.24
1	Em	53	GLU	C-O	-5.03	1.17	1.23
1	N1	50	VAL	C-O	-5.03	1.17	1.23
1	GN	20	ALA	C-O	-5.03	1.18	1.24
1	Ne	50	VAL	C-O	-5.03	1.17	1.23
1	HX	50	VAL	C-O	-5.03	1.17	1.23
1	IY	23	ALA	C-O	-5.03	1.18	1.24
1	JX	47	THR	C-O	-5.03	1.18	1.24
1	Cp	39	GLN	C-O	-5.03	1.17	1.24
1	J3	47	THR	C-O	-5.03	1.18	1.24
1	E3	12	ILE	C-O	-5.03	1.18	1.24
1	JI	47	THR	C-O	-5.03	1.18	1.24
1	EA	12	ILE	C-O	-5.02	1.18	1.24
1	IB	46	VAL	C-O	-5.02	1.18	1.24
1	N8	50	VAL	C-O	-5.02	1.17	1.23
1	EP	12	ILE	C-O	-5.02	1.18	1.24
1	IQ	46	VAL	C-O	-5.02	1.18	1.24
1	NN	50	VAL	C-O	-5.02	1.17	1.23
1	EV	20	ALA	C-O	-5.02	1.18	1.24
1	Iu	46	VAL	C-O	-5.02	1.18	1.24
1	Nr	50	VAL	C-O	-5.02	1.17	1.23
1	LC	81	ILE	C-O	-5.02	1.18	1.24
1	F4	28	THR	C-O	-5.02	1.18	1.24
1	F7	28	THR	C-O	-5.02	1.18	1.24
1	FJ	28	THR	C-O	-5.02	1.18	1.24
1	FM	28	THR	C-O	-5.02	1.18	1.24
1	Lg	81	ILE	C-O	-5.02	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Fb	28	THR	C-O	-5.02	1.18	1.24
1	Kb	11	MET	C-O	-5.02	1.18	1.23
1	Bo	57	VAL	C-O	-5.02	1.18	1.24
1	Dk	77	ALA	C-O	-5.02	1.17	1.23
1	Fn	28	THR	C-O	-5.02	1.18	1.24
1	Fq	28	THR	C-O	-5.02	1.18	1.24
1	E5	20	ALA	C-O	-5.02	1.18	1.24
1	ES	12	ILE	C-O	-5.02	1.18	1.24
1	IM	23	ALA	C-O	-5.02	1.18	1.24
1	EZ	20	ALA	C-O	-5.02	1.18	1.24
1	Nv	78	ALA	C-O	-5.02	1.18	1.23
1	Eo	20	ALA	C-O	-5.02	1.18	1.24
1	Nj	50	VAL	C-O	-5.02	1.17	1.23
1	JA	47	THR	C-O	-5.02	1.18	1.24
1	CO	39	GLN	C-O	-5.02	1.17	1.24
1	Bs	24	ALA	C-O	-5.02	1.18	1.24
1	FD	28	THR	C-O	-5.02	1.18	1.24
1	ID	37	GLY	C-O	-5.02	1.18	1.24
1	C3	39	GLN	C-O	-5.02	1.17	1.24
1	E1	53	GLU	C-O	-5.02	1.17	1.23
1	G5	20	ALA	C-O	-5.02	1.18	1.24
1	FS	28	THR	C-O	-5.02	1.18	1.24
1	CI	39	GLN	C-O	-5.02	1.17	1.24
1	EG	53	GLU	C-O	-5.02	1.17	1.23
1	Fw	28	THR	C-O	-5.02	1.18	1.24
1	Gx	20	ALA	C-O	-5.02	1.18	1.24
1	Go	20	ALA	C-O	-5.02	1.18	1.24
3	Y8	867	ALA	C-O	-5.02	1.18	1.24
3	Yc	867	ALA	C-O	-5.02	1.18	1.24
3	Yr	867	ALA	C-O	-5.02	1.18	1.24
1	ED	53	GLU	C-O	-5.01	1.17	1.23
1	I0	81	ILE	C-O	-5.01	1.18	1.24
1	ES	53	GLU	C-O	-5.01	1.17	1.23
1	IF	81	ILE	C-O	-5.01	1.18	1.24
1	Eh	53	GLU	C-O	-5.01	1.17	1.23
1	Ga	26	ALA	C-O	-5.01	1.18	1.24
1	IU	81	ILE	C-O	-5.01	1.18	1.24
1	Na	50	VAL	C-O	-5.01	1.17	1.23
1	Ew	53	GLU	C-O	-5.01	1.17	1.23
1	Gp	26	ALA	C-O	-5.01	1.18	1.24
1	EC	53	GLU	C-O	-5.01	1.17	1.23
1	OC	47	THR	C-O	-5.01	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	CK	39	GLN	C-O	-5.01	1.17	1.24
1	IN	46	VAL	C-O	-5.01	1.18	1.24
1	Ei	53	GLU	C-O	-5.01	1.17	1.23
1	KZ	11	MET	C-O	-5.01	1.18	1.23
1	NX	50	VAL	C-O	-5.01	1.17	1.23
1	Ex	53	GLU	C-O	-5.01	1.17	1.23
1	BI	24	ALA	C-O	-5.01	1.18	1.24
1	GX	20	ALA	C-O	-5.01	1.18	1.24
1	IZ	81	ILE	C-O	-5.01	1.18	1.24
1	Bk	24	ALA	C-O	-5.01	1.18	1.24
1	Io	81	ILE	C-O	-5.01	1.18	1.24
1	NB	50	VAL	C-O	-5.01	1.17	1.23
1	NB	52	GLY	C-O	-5.01	1.18	1.23
1	E1	20	ALA	C-O	-5.01	1.18	1.24
1	E9	20	ALA	C-O	-5.01	1.18	1.24
1	F8	28	THR	C-O	-5.01	1.18	1.24
1	G6	20	ALA	C-O	-5.01	1.18	1.24
1	J8	47	THR	C-O	-5.01	1.18	1.24
1	N6	50	VAL	C-O	-5.01	1.17	1.23
1	N7	78	ALA	C-O	-5.01	1.18	1.23
3	Y6	867	ALA	C-O	-5.01	1.18	1.24
1	NQ	50	VAL	C-O	-5.01	1.17	1.23
1	EH	12	ILE	C-O	-5.01	1.18	1.24
1	EO	20	ALA	C-O	-5.01	1.18	1.24
1	FN	28	THR	C-O	-5.01	1.18	1.24
1	NM	78	ALA	C-O	-5.01	1.18	1.23
3	YL	867	ALA	C-O	-5.01	1.18	1.24
3	Yg	867	ALA	C-O	-5.01	1.18	1.24
1	Ib	46	VAL	C-O	-5.01	1.18	1.24
1	Jc	47	THR	C-O	-5.01	1.18	1.24
1	Nb	78	ALA	C-O	-5.01	1.18	1.23
3	Ya	867	ALA	C-O	-5.01	1.18	1.24
1	Nu	50	VAL	C-O	-5.01	1.17	1.23
1	Nx	48	VAL	C-O	-5.01	1.18	1.24
3	Yv	867	ALA	C-O	-5.01	1.18	1.24
1	Ek	20	ALA	C-O	-5.01	1.18	1.24
1	Es	20	ALA	C-O	-5.01	1.18	1.24
1	Iq	46	VAL	C-O	-5.01	1.18	1.24
1	Np	50	VAL	C-O	-5.01	1.17	1.23
1	Nq	78	ALA	C-O	-5.01	1.18	1.23
1	C9	39	GLN	C-O	-5.01	1.17	1.24
1	HS	50	VAL	C-O	-5.01	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	NJ	50	VAL	C-O	-5.01	1.17	1.23
1	Cd	39	GLN	C-O	-5.01	1.17	1.24
3	Yd	867	ALA	C-O	-5.01	1.18	1.24
3	Ys	867	ALA	C-O	-5.01	1.18	1.24
1	KB	11	MET	C-O	-5.01	1.18	1.23
1	F5	28	THR	C-O	-5.01	1.18	1.24
1	N0	50	VAL	C-O	-5.01	1.17	1.23
1	KQ	11	MET	C-O	-5.01	1.18	1.23
1	FK	28	THR	C-O	-5.01	1.18	1.24
1	NF	50	VAL	C-O	-5.01	1.17	1.23
1	Kf	11	MET	C-O	-5.01	1.18	1.23
1	Ku	11	MET	C-O	-5.01	1.18	1.23
1	Ir	23	ALA	C-O	-5.01	1.18	1.24
1	IM	81	ILE	C-O	-5.00	1.18	1.24
1	Fx	28	THR	C-O	-5.00	1.18	1.24
1	NL	50	VAL	C-O	-5.00	1.17	1.23
1	B4	9	LEU	C-O	-5.00	1.17	1.24
1	K2	11	MET	C-O	-5.00	1.18	1.23
1	K5	11	MET	C-O	-5.00	1.18	1.23
1	KH	11	MET	C-O	-5.00	1.18	1.23
1	IY	81	ILE	C-O	-5.00	1.18	1.24
1	KW	11	MET	C-O	-5.00	1.18	1.23
1	Kl	11	MET	C-O	-5.00	1.18	1.23
1	Ko	11	MET	C-O	-5.00	1.18	1.23
1	C4	39	GLN	C-O	-5.00	1.17	1.24
1	F3	28	THR	C-O	-5.00	1.18	1.24
1	C7	39	GLN	C-O	-5.00	1.17	1.24
1	GP	26	ALA	C-O	-5.00	1.18	1.24
1	IS	81	ILE	C-O	-5.00	1.18	1.24
1	CJ	39	GLN	C-O	-5.00	1.17	1.24
1	CM	39	GLN	C-O	-5.00	1.17	1.24
1	Ch	39	GLN	C-O	-5.00	1.17	1.24
1	Cb	39	GLN	C-O	-5.00	1.17	1.24
1	Cw	39	GLN	C-O	-5.00	1.17	1.24

All (8186) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Y3	707	ILE	N-CA-C	-14.32	98.56	112.17
1	Df	59	ALA	N-CA-C	-14.19	95.81	111.28
1	Jv	43	GLY	N-CA-C	-13.77	97.43	115.47
2	Ps	55	SER	N-CA-C	13.75	125.78	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	P9	55	SER	N-CA-C	13.72	125.75	111.07
2	PO	55	SER	N-CA-C	13.72	125.75	111.07
2	Pd	55	SER	N-CA-C	13.71	125.74	111.07
3	YJ	799	ASP	N-CA-C	13.12	127.68	110.88
3	YM	799	ASP	N-CA-C	13.12	127.67	110.88
3	Y7	799	ASP	N-CA-C	13.11	127.66	110.88
3	Yj	799	ASP	N-CA-C	13.11	127.66	110.88
3	Y4	799	ASP	N-CA-C	13.10	127.65	110.88
3	YB	799	ASP	N-CA-C	13.10	127.64	110.88
3	YQ	799	ASP	N-CA-C	13.10	127.64	110.88
3	Y5	799	ASP	N-CA-C	13.09	127.64	110.88
3	Y9	799	ASP	N-CA-C	13.09	127.64	110.88
3	YK	799	ASP	N-CA-C	13.09	127.64	110.88
3	YO	799	ASP	N-CA-C	13.09	127.64	110.88
3	Yq	799	ASP	N-CA-C	13.09	127.64	110.88
3	Y6	799	ASP	N-CA-C	13.09	127.64	110.88
3	Yb	799	ASP	N-CA-C	13.09	127.64	110.88
3	Yn	799	ASP	N-CA-C	13.09	127.63	110.88
3	Y2	799	ASP	N-CA-C	13.08	127.63	110.88
3	YH	799	ASP	N-CA-C	13.08	127.63	110.88
3	Yk	799	ASP	N-CA-C	13.08	127.63	110.88
3	YW	799	ASP	N-CA-C	13.08	127.62	110.88
3	YY	799	ASP	N-CA-C	13.08	127.62	110.88
3	YA	799	ASP	N-CA-C	13.08	127.62	110.88
3	YL	799	ASP	N-CA-C	13.08	127.62	110.88
3	Yx	799	ASP	N-CA-C	13.08	127.62	110.88
3	YU	799	ASP	N-CA-C	13.07	127.62	110.88
3	Yl	799	ASP	N-CA-C	13.07	127.61	110.88
3	YF	799	ASP	N-CA-C	13.07	127.61	110.88
3	YD	799	ASP	N-CA-C	13.07	127.60	110.88
3	YS	799	ASP	N-CA-C	13.07	127.60	110.88
3	Yf	799	ASP	N-CA-C	13.07	127.60	110.88
3	Y0	799	ASP	N-CA-C	13.06	127.60	110.88
3	Yd	799	ASP	N-CA-C	13.06	127.59	110.88
3	Yh	799	ASP	N-CA-C	13.06	127.59	110.88
3	YE	799	ASP	N-CA-C	13.05	127.59	110.88
3	YT	799	ASP	N-CA-C	13.05	127.59	110.88
3	Yi	799	ASP	N-CA-C	13.05	127.59	110.88
3	Y1	799	ASP	N-CA-C	13.05	127.59	110.88
3	Ym	799	ASP	N-CA-C	13.05	127.58	110.88
3	YV	799	ASP	N-CA-C	13.05	127.58	110.88
3	YZ	799	ASP	N-CA-C	13.04	127.58	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	YP	799	ASP	N-CA-C	13.04	127.57	110.88
3	Ys	799	ASP	N-CA-C	13.04	127.57	110.88
3	Y3	799	ASP	N-CA-C	13.04	127.57	110.88
3	Yr	799	ASP	N-CA-C	13.03	127.56	110.88
3	YI	799	ASP	N-CA-C	13.03	127.56	110.88
3	Yc	799	ASP	N-CA-C	13.03	127.56	110.88
3	Yu	799	ASP	N-CA-C	13.03	127.56	110.88
3	Yw	799	ASP	N-CA-C	13.03	127.56	110.88
3	YX	799	ASP	N-CA-C	13.02	127.55	110.88
3	Ye	799	ASP	N-CA-C	13.02	127.54	110.88
3	Yp	799	ASP	N-CA-C	13.02	127.54	110.88
3	YR	799	ASP	N-CA-C	13.01	127.54	110.88
3	YG	799	ASP	N-CA-C	13.01	127.54	110.88
3	Ya	799	ASP	N-CA-C	13.01	127.54	110.88
3	Y8	799	ASP	N-CA-C	13.01	127.53	110.88
3	Yg	799	ASP	N-CA-C	13.01	127.53	110.88
3	YN	799	ASP	N-CA-C	13.01	127.53	110.88
3	Yv	799	ASP	N-CA-C	13.00	127.52	110.88
3	Yo	799	ASP	N-CA-C	13.00	127.52	110.88
3	YC	799	ASP	N-CA-C	13.00	127.52	110.88
3	Yt	799	ASP	N-CA-C	12.98	127.50	110.88
1	Gj	43	GLY	N-CA-C	-12.57	98.65	115.36
1	GU	43	GLY	N-CA-C	-12.51	98.73	115.36
1	G0	43	GLY	N-CA-C	-12.48	98.77	115.36
1	GF	43	GLY	N-CA-C	-12.48	98.77	115.36
1	DR	96	PRO	N-CA-C	-12.23	96.53	113.53
1	DG	96	PRO	N-CA-C	-12.23	96.53	113.53
1	D9	96	PRO	N-CA-C	-12.22	96.54	113.53
1	Do	96	PRO	N-CA-C	-12.22	96.55	113.53
1	Ds	96	PRO	N-CA-C	-12.22	96.55	113.53
1	DC	96	PRO	N-CA-C	-12.21	96.55	113.53
1	Dv	96	PRO	N-CA-C	-12.21	96.56	113.53
1	D1	96	PRO	N-CA-C	-12.21	96.56	113.53
1	D8	96	PRO	N-CA-C	-12.20	96.57	113.53
1	D3	96	PRO	N-CA-C	-12.20	96.57	113.53
1	DT	96	PRO	N-CA-C	-12.20	96.58	113.53
1	Dd	96	PRO	N-CA-C	-12.20	96.57	113.53
1	Dr	96	PRO	N-CA-C	-12.20	96.57	113.53
1	DM	96	PRO	N-CA-C	-12.20	96.57	113.53
1	D2	96	PRO	N-CA-C	-12.20	96.58	113.53
1	DX	96	PRO	N-CA-C	-12.20	96.58	113.53
1	Dt	96	PRO	N-CA-C	-12.20	96.58	113.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	DA	96	PRO	N-CA-C	-12.19	96.58	113.53
1	DP	96	PRO	N-CA-C	-12.19	96.58	113.53
1	Dg	96	PRO	N-CA-C	-12.19	96.58	113.53
1	Dc	96	PRO	N-CA-C	-12.19	96.59	113.53
1	DL	96	PRO	N-CA-C	-12.19	96.59	113.53
1	DV	96	PRO	N-CA-C	-12.19	96.59	113.53
1	DZ	96	PRO	N-CA-C	-12.19	96.59	113.53
1	D6	96	PRO	N-CA-C	-12.19	96.59	113.53
1	Dx	96	PRO	N-CA-C	-12.18	96.60	113.53
1	DE	96	PRO	N-CA-C	-12.18	96.60	113.53
1	DN	96	PRO	N-CA-C	-12.18	96.60	113.53
1	DO	96	PRO	N-CA-C	-12.18	96.60	113.53
1	Dk	96	PRO	N-CA-C	-12.18	96.60	113.53
1	Da	96	PRO	N-CA-C	-12.18	96.61	113.53
1	Df	96	PRO	N-CA-C	-12.18	96.61	113.53
1	D0	96	PRO	N-CA-C	-12.17	96.61	113.53
1	DQ	96	PRO	N-CA-C	-12.17	96.61	113.53
1	De	96	PRO	N-CA-C	-12.17	96.61	113.53
1	Di	96	PRO	N-CA-C	-12.17	96.61	113.53
1	D5	96	PRO	N-CA-C	-12.17	96.62	113.53
1	DK	96	PRO	N-CA-C	-12.17	96.62	113.53
1	Dm	96	PRO	N-CA-C	-12.16	96.62	113.53
1	Dp	96	PRO	N-CA-C	-12.16	96.63	113.53
3	XX	630	ASN	N-CA-C	-12.12	98.01	112.92
2	Pf	55	SER	N-CA-C	11.95	123.86	111.07
3	Yo	707	ILE	N-CA-C	-11.95	101.06	112.29
2	Pu	55	SER	N-CA-C	11.94	123.85	111.07
2	PB	55	SER	N-CA-C	11.94	123.84	111.07
3	Y5	707	ILE	N-CA-C	-11.94	101.07	112.29
2	PQ	55	SER	N-CA-C	11.94	123.84	111.07
3	YZ	707	ILE	N-CA-C	-11.92	101.09	112.29
3	YK	707	ILE	N-CA-C	-11.89	101.11	112.29
1	GJ	96	PRO	N-CA-C	-11.30	97.83	113.53
1	Gg	96	PRO	N-CA-C	-11.29	97.84	113.53
1	Gs	96	PRO	N-CA-C	-11.28	97.84	113.53
1	G4	96	PRO	N-CA-C	-11.28	97.85	113.53
1	Ga	96	PRO	N-CA-C	-11.28	97.85	113.53
1	GM	96	PRO	N-CA-C	-11.28	97.86	113.53
1	Gv	96	PRO	N-CA-C	-11.28	97.86	113.53
1	Gp	96	PRO	N-CA-C	-11.28	97.86	113.53
1	Gc	96	PRO	N-CA-C	-11.27	97.86	113.53
1	GG	96	PRO	N-CA-C	-11.27	97.86	113.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G3	96	PRO	N-CA-C	-11.27	97.86	113.53
1	G8	96	PRO	N-CA-C	-11.27	97.87	113.53
1	G9	96	PRO	N-CA-C	-11.27	97.87	113.53
1	GO	96	PRO	N-CA-C	-11.27	97.87	113.53
1	GX	96	PRO	N-CA-C	-11.27	97.86	113.53
1	Gx	96	PRO	N-CA-C	-11.27	97.87	113.53
1	GC	96	PRO	N-CA-C	-11.26	97.87	113.53
1	G6	96	PRO	N-CA-C	-11.26	97.87	113.53
1	GL	96	PRO	N-CA-C	-11.26	97.87	113.53
1	Gk	96	PRO	N-CA-C	-11.26	97.88	113.53
1	GA	96	PRO	N-CA-C	-11.26	97.88	113.53
1	Gd	96	PRO	N-CA-C	-11.26	97.88	113.53
1	GE	96	PRO	N-CA-C	-11.26	97.88	113.53
1	GP	96	PRO	N-CA-C	-11.26	97.89	113.53
1	G1	96	PRO	N-CA-C	-11.25	97.89	113.53
1	GV	96	PRO	N-CA-C	-11.25	97.89	113.53
1	Gb	96	PRO	N-CA-C	-11.25	97.89	113.53
1	GK	96	PRO	N-CA-C	-11.25	97.89	113.53
1	Ge	96	PRO	N-CA-C	-11.25	97.89	113.53
1	GD	96	PRO	N-CA-C	-11.25	97.90	113.53
1	G7	96	PRO	N-CA-C	-11.25	97.90	113.53
1	GS	96	PRO	N-CA-C	-11.25	97.90	113.53
1	GN	96	PRO	N-CA-C	-11.25	97.89	113.53
1	GT	96	PRO	N-CA-C	-11.25	97.90	113.53
1	Gq	96	PRO	N-CA-C	-11.25	97.90	113.53
1	G5	96	PRO	N-CA-C	-11.24	97.90	113.53
1	Gi	96	PRO	N-CA-C	-11.24	97.90	113.53
1	GY	96	PRO	N-CA-C	-11.24	97.90	113.53
1	Gm	96	PRO	N-CA-C	-11.24	97.90	113.53
1	Gn	96	PRO	N-CA-C	-11.24	97.91	113.53
1	Gh	96	PRO	N-CA-C	-11.24	97.91	113.53
1	Gt	96	PRO	N-CA-C	-11.24	97.91	113.53
1	Go	96	PRO	N-CA-C	-11.24	97.91	113.53
1	GR	96	PRO	N-CA-C	-11.23	97.92	113.53
1	GZ	96	PRO	N-CA-C	-11.23	97.91	113.53
1	Gw	96	PRO	N-CA-C	-11.23	97.92	113.53
1	Gr	96	PRO	N-CA-C	-11.23	97.92	113.53
3	Xc	723	LEU	N-CA-C	11.23	123.52	111.28
3	X8	723	LEU	N-CA-C	11.19	123.48	111.28
3	Xr	723	LEU	N-CA-C	11.19	123.48	111.28
3	XN	723	LEU	N-CA-C	11.19	123.48	111.28
3	X3	630	ASN	N-CA-C	-10.85	99.58	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Pr	55	SER	N-CA-C	10.78	122.61	111.07
2	PN	55	SER	N-CA-C	10.77	122.60	111.07
2	Pc	55	SER	N-CA-C	10.75	122.57	111.07
2	P8	55	SER	N-CA-C	10.73	122.55	111.07
3	YP	707	ILE	N-CA-C	-10.65	102.28	112.29
3	Yt	707	ILE	N-CA-C	-10.63	102.30	112.29
3	Ye	707	ILE	N-CA-C	-10.61	102.31	112.29
3	YA	707	ILE	N-CA-C	-10.61	102.32	112.29
1	GU	76	VAL	N-CA-C	-10.60	102.69	111.81
1	Gj	76	VAL	N-CA-C	-10.60	102.69	111.81
1	G0	76	VAL	N-CA-C	-10.59	102.70	111.81
1	GF	76	VAL	N-CA-C	-10.59	102.70	111.81
2	PU	69	SER	N-CA-C	10.40	125.60	110.42
2	Pj	69	SER	N-CA-C	10.38	125.58	110.42
2	P0	69	SER	N-CA-C	10.38	125.57	110.42
2	PF	69	SER	N-CA-C	10.36	125.55	110.42
3	Xc	618	GLY	N-CA-C	-10.08	97.28	110.69
3	Y3	705	ASN	N-CA-C	-10.05	90.30	107.99
1	DS	43	GLY	N-CA-C	-9.96	99.75	115.08
1	DY	42	GLY	N-CA-C	-9.89	102.55	111.95
3	XL	631	GLU	N-CA-C	9.88	122.13	111.36
3	X6	631	GLU	N-CA-C	9.84	122.09	111.36
3	Xa	631	GLU	N-CA-C	9.82	122.06	111.36
3	Xp	631	GLU	N-CA-C	9.81	122.05	111.36
3	XH	630	ASN	N-CA-C	-9.79	100.83	113.17
3	Xa	719	LEU	N-CA-C	9.78	123.65	110.35
3	X2	630	ASN	N-CA-C	-9.77	100.86	113.17
1	DY	54	THR	N-CA-C	9.76	122.83	111.11
3	Xl	630	ASN	N-CA-C	-9.75	100.89	113.17
3	XW	630	ASN	N-CA-C	-9.73	100.91	113.17
3	XY	621	VAL	N-CA-C	-9.70	103.47	111.81
1	DJ	79	HIS	N-CA-C	9.70	124.83	110.48
1	Ak	16	GLY	CA-C-O	-9.65	114.89	122.52
1	Av	16	GLY	CA-C-O	-9.65	114.90	122.52
1	Ao	16	GLY	CA-C-O	-9.62	114.92	122.52
1	Ai	16	GLY	CA-C-O	-9.62	114.92	122.52
1	AE	16	GLY	CA-C-O	-9.60	114.94	122.52
1	AT	16	GLY	CA-C-O	-9.60	114.94	122.52
1	A5	16	GLY	CA-C-O	-9.59	114.94	122.52
1	AK	16	GLY	CA-C-O	-9.59	114.94	122.52
1	Ax	16	GLY	CA-C-O	-9.59	114.95	122.52
1	AI	16	GLY	CA-C-O	-9.58	114.95	122.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AZ	16	GLY	CA-C-O	-9.58	114.95	122.52
1	Ag	16	GLY	CA-C-O	-9.58	114.95	122.52
1	Am	16	GLY	CA-C-O	-9.57	114.95	122.52
1	AL	16	GLY	CA-C-O	-9.57	114.96	122.52
1	AB	16	GLY	CA-C-O	-9.57	114.96	122.52
1	AQ	16	GLY	CA-C-O	-9.57	114.96	122.52
1	Au	16	GLY	CA-C-O	-9.57	114.96	122.52
1	AG	16	GLY	CA-C-O	-9.57	114.96	122.52
1	AV	16	GLY	CA-C-O	-9.56	114.96	122.52
1	AU	16	GLY	CA-C-O	-9.56	114.97	122.52
1	Aa	16	GLY	CA-C-O	-9.55	114.97	122.52
1	Aw	16	GLY	CA-C-O	-9.55	114.97	122.52
1	Al	16	GLY	CA-C-O	-9.55	114.97	122.52
1	AF	16	GLY	CA-C-O	-9.55	114.97	122.52
1	Aj	16	GLY	CA-C-O	-9.55	114.97	122.52
1	A1	16	GLY	CA-C-O	-9.55	114.98	122.52
1	A2	16	GLY	CA-C-O	-9.55	114.98	122.52
1	A3	16	GLY	CA-C-O	-9.55	114.98	122.52
1	AN	16	GLY	CA-C-O	-9.55	114.98	122.52
1	AC	16	GLY	CA-C-O	-9.54	114.98	122.52
1	A0	16	GLY	CA-C-O	-9.54	114.98	122.52
1	AH	16	GLY	CA-C-O	-9.54	114.98	122.52
1	A6	16	GLY	CA-C-O	-9.54	114.98	122.52
1	Ap	16	GLY	CA-C-O	-9.54	114.98	122.52
1	AA	16	GLY	CA-C-O	-9.54	114.99	122.52
1	A8	16	GLY	CA-C-O	-9.54	114.99	122.52
1	AP	16	GLY	CA-C-O	-9.54	114.99	122.52
1	AW	16	GLY	CA-C-O	-9.54	114.99	122.52
1	AJ	16	GLY	CA-C-O	-9.53	114.99	122.52
1	AX	16	GLY	CA-C-O	-9.53	114.99	122.52
1	Ah	16	GLY	CA-C-O	-9.52	115.00	122.52
1	Ae	16	GLY	CA-C-O	-9.52	115.00	122.52
1	Ac	16	GLY	CA-C-O	-9.52	115.00	122.52
1	AY	16	GLY	CA-C-O	-9.51	115.01	122.52
1	AD	16	GLY	CA-C-O	-9.51	115.01	122.52
1	A4	16	GLY	CA-C-O	-9.50	115.01	122.52
1	A7	16	GLY	CA-C-O	-9.49	115.02	122.52
1	AM	16	GLY	CA-C-O	-9.49	115.02	122.52
1	AR	16	GLY	CA-C-O	-9.49	115.02	122.52
1	At	16	GLY	CA-C-O	-9.49	115.02	122.52
1	Ar	16	GLY	CA-C-O	-9.49	115.02	122.52
1	Ab	16	GLY	CA-C-O	-9.49	115.02	122.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AO	16	GLY	CA-C-O	-9.47	115.03	122.52
3	X8	618	GLY	N-CA-C	-9.46	98.10	110.69
1	A9	16	GLY	CA-C-O	-9.46	115.05	122.52
1	AS	16	GLY	CA-C-O	-9.46	115.05	122.52
1	Af	16	GLY	CA-C-O	-9.45	115.06	122.52
1	An	16	GLY	CA-C-O	-9.43	115.07	122.52
1	As	16	GLY	CA-C-O	-9.43	115.07	122.52
1	Ad	16	GLY	CA-C-O	-9.42	115.08	122.52
1	Gl	43	GLY	N-CA-C	-9.42	101.74	115.30
1	Aq	16	GLY	CA-C-O	-9.42	115.08	122.52
1	GW	43	GLY	N-CA-C	-9.39	101.77	115.30
1	GH	43	GLY	N-CA-C	-9.37	101.81	115.30
1	G2	43	GLY	N-CA-C	-9.37	101.81	115.30
1	GB	43	GLY	N-CA-C	-9.35	101.83	115.30
1	Gf	43	GLY	N-CA-C	-9.35	101.84	115.30
3	Xp	719	LEU	N-CA-C	9.35	123.68	110.50
3	XL	719	LEU	N-CA-C	9.34	123.67	110.50
1	GQ	43	GLY	N-CA-C	-9.33	101.87	115.30
1	Gu	43	GLY	N-CA-C	-9.32	101.88	115.30
3	X6	719	LEU	N-CA-C	9.32	123.64	110.50
3	Xr	630	ASN	N-CA-C	-9.21	99.80	113.61
1	D4	42	GLY	N-CA-C	-9.18	102.01	112.29
3	Xs	693	THR	N-CA-C	-8.97	98.44	109.83
3	Xd	693	THR	N-CA-C	-8.94	98.48	109.83
3	X9	693	THR	N-CA-C	-8.93	98.49	109.83
3	XO	693	THR	N-CA-C	-8.89	98.55	109.83
3	Xm	645	GLY	N-CA-C	8.73	121.57	111.36
3	XM	723	LEU	N-CA-C	8.64	120.70	111.28
3	X7	723	LEU	N-CA-C	8.62	120.68	111.28
3	Xb	723	LEU	N-CA-C	8.60	120.65	111.28
3	Xq	723	LEU	N-CA-C	8.58	120.63	111.28
1	Bx	16	GLY	CA-C-O	-8.56	116.28	122.45
3	Xr	724	ILE	N-CA-C	8.55	121.18	109.80
3	Xc	724	ILE	N-CA-C	8.53	121.15	109.80
3	X8	724	ILE	N-CA-C	8.52	121.14	109.80
3	XN	724	ILE	N-CA-C	8.52	121.14	109.80
1	B0	16	GLY	CA-C-O	-8.52	116.32	122.45
3	Xh	650	GLY	N-CA-C	-8.52	102.75	112.29
3	XD	650	GLY	N-CA-C	-8.51	102.76	112.29
3	Xw	650	GLY	N-CA-C	-8.51	102.76	112.29
3	XS	650	GLY	N-CA-C	-8.49	102.78	112.29
1	BQ	16	GLY	CA-C-O	-8.49	116.34	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Bi	16	GLY	CA-C-O	-8.48	116.34	122.45
1	BA	16	GLY	CA-C-O	-8.48	116.35	122.45
1	BP	16	GLY	CA-C-O	-8.48	116.35	122.45
1	B3	16	GLY	CA-C-O	-8.47	116.35	122.45
1	BZ	16	GLY	CA-C-O	-8.47	116.35	122.45
1	Bo	16	GLY	CA-C-O	-8.47	116.35	122.45
1	BG	16	GLY	CA-C-O	-8.47	116.35	122.45
1	B7	16	GLY	CA-C-O	-8.46	116.36	122.45
1	BV	16	GLY	CA-C-O	-8.46	116.36	122.45
1	BE	16	GLY	CA-C-O	-8.46	116.36	122.45
1	B5	16	GLY	CA-C-O	-8.46	116.36	122.45
1	BB	16	GLY	CA-C-O	-8.45	116.36	122.45
1	BF	16	GLY	CA-C-O	-8.45	116.36	122.45
1	Bk	16	GLY	CA-C-O	-8.45	116.36	122.45
1	BT	16	GLY	CA-C-O	-8.45	116.37	122.45
1	B8	16	GLY	CA-C-O	-8.45	116.37	122.45
1	Be	16	GLY	CA-C-O	-8.45	116.37	122.45
1	BH	16	GLY	CA-C-O	-8.45	116.37	122.45
1	BX	16	GLY	CA-C-O	-8.44	116.37	122.45
1	BM	16	GLY	CA-C-O	-8.44	116.37	122.45
1	B1	16	GLY	CA-C-O	-8.43	116.38	122.45
1	B6	16	GLY	CA-C-O	-8.43	116.38	122.45
1	Bs	16	GLY	CA-C-O	-8.43	116.38	122.45
1	BI	16	GLY	CA-C-O	-8.42	116.39	122.45
1	Bt	16	GLY	CA-C-O	-8.42	116.38	122.45
1	BK	16	GLY	CA-C-O	-8.42	116.39	122.45
1	BL	16	GLY	CA-C-O	-8.42	116.39	122.45
1	Ba	16	GLY	CA-C-O	-8.42	116.39	122.45
1	Bv	16	GLY	CA-C-O	-8.42	116.39	122.45
1	Bj	16	GLY	CA-C-O	-8.42	116.39	122.45
1	Br	16	GLY	CA-C-O	-8.42	116.39	122.45
1	Bg	16	GLY	CA-C-O	-8.42	116.39	122.45
1	Bb	16	GLY	CA-C-O	-8.41	116.39	122.45
1	BC	16	GLY	CA-C-O	-8.41	116.40	122.45
1	Bp	16	GLY	CA-C-O	-8.41	116.40	122.45
1	BN	16	GLY	CA-C-O	-8.40	116.40	122.45
1	B2	16	GLY	CA-C-O	-8.40	116.40	122.45
1	BJ	16	GLY	CA-C-O	-8.40	116.40	122.45
1	Bq	16	GLY	CA-C-O	-8.40	116.40	122.45
1	Bh	16	GLY	CA-C-O	-8.39	116.41	122.45
1	BU	16	GLY	CA-C-O	-8.39	116.41	122.45
1	Bf	16	GLY	CA-C-O	-8.39	116.41	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Bu	16	GLY	CA-C-O	-8.39	116.41	122.45
1	Bm	16	GLY	CA-C-O	-8.38	116.42	122.45
1	Bd	16	GLY	CA-C-O	-8.38	116.42	122.45
1	Bc	16	GLY	CA-C-O	-8.38	116.42	122.45
1	Bn	16	GLY	CA-C-O	-8.38	116.42	122.45
1	BD	16	GLY	CA-C-O	-8.37	116.42	122.45
1	B9	16	GLY	CA-C-O	-8.37	116.42	122.45
1	BO	16	GLY	CA-C-O	-8.37	116.42	122.45
1	BR	16	GLY	CA-C-O	-8.36	116.43	122.45
3	X9	630	ASN	N-CA-C	-8.36	102.86	113.72
1	Bw	16	GLY	CA-C-O	-8.36	116.43	122.45
1	BY	16	GLY	CA-C-O	-8.35	116.44	122.45
1	BS	16	GLY	CA-C-O	-8.35	116.44	122.45
3	XO	630	ASN	N-CA-C	-8.34	102.88	113.72
1	BW	16	GLY	CA-C-O	-8.34	116.44	122.45
3	Xs	630	ASN	N-CA-C	-8.33	102.89	113.72
1	GW	74	GLY	N-CA-C	8.32	125.13	112.81
1	Gc	16	GLY	CA-C-O	-8.32	116.46	122.45
1	Gl	74	GLY	N-CA-C	8.32	125.13	112.81
1	B4	16	GLY	CA-C-O	-8.31	116.47	122.45
3	Xd	630	ASN	N-CA-C	-8.31	102.92	113.72
1	G2	74	GLY	N-CA-C	8.31	125.11	112.81
1	GH	74	GLY	N-CA-C	8.31	125.11	112.81
1	Bl	16	GLY	CA-C-O	-8.30	116.47	122.45
1	D6	67	ALA	N-CA-C	8.30	119.95	111.07
1	GN	16	GLY	CA-C-O	-8.29	116.48	122.45
1	Gs	16	GLY	CA-C-O	-8.29	116.48	122.45
1	G8	16	GLY	CA-C-O	-8.28	116.49	122.45
1	Gr	16	GLY	CA-C-O	-8.28	116.49	122.45
1	GL	16	GLY	CA-C-O	-8.27	116.50	122.45
1	GG	16	GLY	CA-C-O	-8.26	116.50	122.45
1	GB	74	GLY	N-CA-C	8.26	125.03	112.81
1	GQ	74	GLY	N-CA-C	8.26	125.03	112.81
1	DS	55	GLY	CA-C-N	-8.25	106.71	122.06
1	DS	55	GLY	C-N-CA	-8.25	106.71	122.06
1	GC	16	GLY	CA-C-O	-8.25	116.51	122.45
1	Gg	16	GLY	CA-C-O	-8.25	116.51	122.45
1	Gv	16	GLY	CA-C-O	-8.25	116.51	122.45
1	Gp	16	GLY	CA-C-O	-8.25	116.51	122.45
1	DK	16	GLY	CA-C-O	-8.24	116.52	122.45
1	Gx	16	GLY	CA-C-O	-8.24	116.52	122.45
1	Gd	16	GLY	CA-C-O	-8.23	116.52	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GP	16	GLY	CA-C-O	-8.23	116.53	122.45
1	G6	16	GLY	CA-C-O	-8.23	116.53	122.45
1	GX	16	GLY	CA-C-O	-8.22	116.53	122.45
1	G3	16	GLY	CA-C-O	-8.22	116.53	122.45
1	Gu	74	GLY	N-CA-C	8.22	124.97	112.81
1	Gf	74	GLY	N-CA-C	8.21	124.97	112.81
1	GV	16	GLY	CA-C-O	-8.21	116.54	122.45
1	DA	16	GLY	CA-C-O	-8.21	116.54	122.45
1	GA	16	GLY	CA-C-O	-8.21	116.54	122.45
1	DP	16	GLY	CA-C-O	-8.21	116.54	122.45
3	Xm	621	VAL	N-CA-C	-8.21	103.36	112.80
1	G9	16	GLY	CA-C-O	-8.20	116.55	122.45
1	GO	16	GLY	CA-C-O	-8.20	116.55	122.45
1	G1	16	GLY	CA-C-O	-8.19	116.55	122.45
1	D0	16	GLY	CA-C-O	-8.19	116.55	122.45
1	DX	16	GLY	CA-C-O	-8.19	116.55	122.45
1	Gh	16	GLY	CA-C-O	-8.19	116.55	122.45
1	Gw	16	GLY	CA-C-O	-8.19	116.55	122.45
1	De	16	GLY	CA-C-O	-8.19	116.56	122.45
1	Dt	16	GLY	CA-C-O	-8.19	116.56	122.45
1	Gt	16	GLY	CA-C-O	-8.18	116.56	122.45
1	Gi	16	GLY	CA-C-O	-8.18	116.56	122.45
1	Gk	16	GLY	CA-C-O	-8.18	116.56	122.45
1	Gm	16	GLY	CA-C-O	-8.18	116.56	122.45
1	DG	16	GLY	CA-C-O	-8.17	116.56	122.45
1	GK	16	GLY	CA-C-O	-8.17	116.56	122.45
1	Dk	16	GLY	CA-C-O	-8.17	116.57	122.45
1	Dm	16	GLY	CA-C-O	-8.17	116.56	122.45
1	GI	16	GLY	CA-C-O	-8.17	116.57	122.45
1	G5	16	GLY	CA-C-O	-8.17	116.57	122.45
1	GY	16	GLY	CA-C-O	-8.17	116.57	122.45
1	GZ	16	GLY	CA-C-O	-8.17	116.57	122.45
1	G7	16	GLY	CA-C-O	-8.16	116.57	122.45
1	DQ	16	GLY	CA-C-O	-8.16	116.58	122.45
1	D3	16	GLY	CA-C-O	-8.15	116.58	122.45
1	Ga	16	GLY	CA-C-O	-8.15	116.58	122.45
1	Du	16	GLY	CA-C-O	-8.15	116.58	122.45
1	DI	16	GLY	CA-C-O	-8.15	116.58	122.45
1	D1	16	GLY	CA-C-O	-8.15	116.58	122.45
1	G4	16	GLY	CA-C-O	-8.15	116.58	122.45
1	GR	16	GLY	CA-C-O	-8.15	116.58	122.45
1	Dg	16	GLY	CA-C-O	-8.15	116.58	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Do	16	GLY	CA-C-O	-8.15	116.58	122.45
1	Ge	16	GLY	CA-C-O	-8.14	116.59	122.45
1	Gq	16	GLY	CA-C-O	-8.14	116.59	122.45
1	Di	16	GLY	CA-C-O	-8.14	116.59	122.45
1	D5	16	GLY	CA-C-O	-8.14	116.59	122.45
1	DV	16	GLY	CA-C-O	-8.14	116.59	122.45
1	DZ	16	GLY	CA-C-O	-8.14	116.59	122.45
1	Gb	16	GLY	CA-C-O	-8.14	116.59	122.45
1	DU	16	GLY	CA-C-O	-8.14	116.59	122.45
1	D2	16	GLY	CA-C-O	-8.13	116.59	122.45
1	GS	16	GLY	CA-C-O	-8.13	116.59	122.45
1	Dj	16	GLY	CA-C-O	-8.13	116.60	122.45
1	GD	16	GLY	CA-C-O	-8.12	116.60	122.45
1	DW	16	GLY	CA-C-O	-8.12	116.60	122.45
1	Gn	16	GLY	CA-C-O	-8.12	116.60	122.45
1	Dl	16	GLY	CA-C-O	-8.12	116.60	122.45
1	Dw	67	ALA	N-CA-C	8.12	120.21	111.36
1	GE	16	GLY	CA-C-O	-8.12	116.61	122.45
1	D8	16	GLY	CA-C-O	-8.12	116.61	122.45
1	GM	16	GLY	CA-C-O	-8.11	116.61	122.45
1	GJ	16	GLY	CA-C-O	-8.11	116.61	122.45
1	Dd	16	GLY	CA-C-O	-8.11	116.61	122.45
1	Go	16	GLY	CA-C-O	-8.11	116.61	122.45
1	Df	16	GLY	CA-C-O	-8.10	116.62	122.45
1	Dv	16	GLY	CA-C-O	-8.10	116.62	122.45
1	Dx	16	GLY	CA-C-O	-8.09	116.62	122.45
1	D9	16	GLY	CA-C-O	-8.08	116.63	122.45
1	Da	16	GLY	CA-C-O	-8.08	116.63	122.45
1	D7	74	GLY	N-CA-C	8.08	121.55	110.56
1	DC	16	GLY	CA-C-O	-8.08	116.63	122.45
1	DE	16	GLY	CA-C-O	-8.08	116.63	122.45
1	DR	16	GLY	CA-C-O	-8.08	116.63	122.45
3	Xm	725	THR	N-CA-C	-8.08	97.00	109.52
1	DL	16	GLY	CA-C-O	-8.08	116.63	122.45
1	D6	16	GLY	CA-C-O	-8.08	116.63	122.45
3	XX	725	THR	N-CA-C	-8.08	97.00	109.52
1	DT	16	GLY	CA-C-O	-8.07	116.64	122.45
1	DN	16	GLY	CA-C-O	-8.07	116.64	122.45
1	GT	16	GLY	CA-C-O	-8.07	116.64	122.45
1	Dr	16	GLY	CA-C-O	-8.06	116.64	122.45
3	Yj	723	LEU	N-CA-C	-8.06	103.01	113.17
3	Y0	723	LEU	N-CA-C	-8.06	103.02	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Fo	16	GLY	CA-C-O	-8.06	115.80	122.33
1	Ds	16	GLY	CA-C-O	-8.06	116.65	122.45
1	DM	16	GLY	CA-C-O	-8.06	116.65	122.45
1	Dc	16	GLY	CA-C-O	-8.06	116.65	122.45
3	YU	723	LEU	N-CA-C	-8.06	103.02	113.17
3	X3	725	THR	N-CA-C	-8.05	97.05	109.52
3	XI	725	THR	N-CA-C	-8.05	97.05	109.52
2	Pw	55	SER	N-CA-C	8.04	119.67	111.07
2	PD	55	SER	N-CA-C	8.04	119.67	111.07
1	FT	16	GLY	CA-C-O	-8.04	115.82	122.33
2	PS	55	SER	N-CA-C	8.04	119.67	111.07
1	Dp	16	GLY	CA-C-O	-8.04	116.67	122.45
1	DO	16	GLY	CA-C-O	-8.03	116.67	122.45
1	GF	91	ILE	N-CA-C	8.03	118.83	110.72
3	YF	723	LEU	N-CA-C	-8.03	103.05	113.17
2	Ph	55	SER	N-CA-C	8.02	119.65	111.07
3	X2	631	GLU	N-CA-C	8.01	120.02	111.28
3	XH	631	GLU	N-CA-C	8.01	120.02	111.28
3	XW	631	GLU	N-CA-C	8.01	120.02	111.28
1	An	42	GLY	CA-C-O	-8.01	116.71	122.23
1	FZ	16	GLY	CA-C-O	-8.00	115.85	122.33
3	YF	719	LEU	N-CA-C	8.00	120.25	110.41
1	Fx	16	GLY	CA-C-O	-8.00	115.85	122.33
1	Mm	77	ALA	N-CA-C	8.00	120.27	108.60
3	Xl	631	GLU	N-CA-C	7.99	119.99	111.28
1	Fv	16	GLY	CA-C-O	-7.99	115.86	122.33
1	FE	16	GLY	CA-C-O	-7.98	115.86	122.33
1	FC	16	GLY	CA-C-O	-7.98	115.87	122.33
1	Fg	16	GLY	CA-C-O	-7.98	115.87	122.33
3	YU	719	LEU	N-CA-C	7.98	120.22	110.41
1	D7	37	GLY	N-CA-C	7.97	125.49	111.14
3	Y0	719	LEU	N-CA-C	7.97	120.21	110.41
1	Nt	16	GLY	CA-C-O	-7.97	115.88	122.33
1	Nl	16	GLY	CA-C-O	-7.97	115.88	122.33
1	AT	74	GLY	N-CA-C	7.97	119.61	111.56
3	Xc	623	ALA	N-CA-C	7.97	121.05	110.53
3	Yj	719	LEU	N-CA-C	7.96	120.21	110.41
1	NB	16	GLY	CA-C-O	-7.96	115.88	122.33
1	NQ	16	GLY	CA-C-O	-7.96	115.88	122.33
1	NM	16	GLY	CA-C-O	-7.96	115.88	122.33
1	FR	16	GLY	CA-C-O	-7.96	115.88	122.33
1	FK	16	GLY	CA-C-O	-7.96	115.89	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	NW	16	GLY	CA-C-O	-7.95	115.89	122.33
1	NH	16	GLY	CA-C-O	-7.95	115.89	122.33
1	N7	16	GLY	CA-C-O	-7.94	115.90	122.33
1	EL	37	GLY	N-CA-C	7.94	123.10	110.87
1	AE	74	GLY	N-CA-C	7.94	119.58	111.56
1	F5	16	GLY	CA-C-O	-7.94	115.90	122.33
1	AZ	74	GLY	N-CA-C	7.94	119.58	111.56
3	Yw	723	LEU	N-CA-C	-7.94	102.64	112.88
1	Fk	16	GLY	CA-C-O	-7.94	115.90	122.33
1	NC	16	GLY	CA-C-O	-7.93	115.91	122.33
1	F3	16	GLY	CA-C-O	-7.93	115.91	122.33
1	N2	16	GLY	CA-C-O	-7.93	115.91	122.33
1	NR	16	GLY	CA-C-O	-7.93	115.91	122.33
1	FI	16	GLY	CA-C-O	-7.93	115.91	122.33
1	Fm	16	GLY	CA-C-O	-7.93	115.91	122.33
1	NN	16	GLY	CA-C-O	-7.93	115.91	122.33
1	Fr	16	GLY	CA-C-O	-7.93	115.91	122.33
1	At	74	GLY	N-CA-C	7.92	119.56	111.56
1	A5	74	GLY	N-CA-C	7.92	119.56	111.56
3	X1	646	ALA	N-CA-C	7.92	119.92	111.28
1	AK	74	GLY	N-CA-C	7.92	119.56	111.56
1	Nq	16	GLY	CA-C-O	-7.92	115.91	122.33
1	N3	16	GLY	CA-C-O	-7.92	115.91	122.33
1	NI	16	GLY	CA-C-O	-7.92	115.91	122.33
1	ND	16	GLY	CA-C-O	-7.92	115.92	122.33
1	Nu	16	GLY	CA-C-O	-7.92	115.92	122.33
1	F0	16	GLY	CA-C-O	-7.92	115.92	122.33
1	AT	42	GLY	CA-C-O	-7.92	116.77	122.23
3	XV	646	ALA	N-CA-C	7.92	119.91	111.28
3	Xk	646	ALA	N-CA-C	7.92	119.91	111.28
1	Fs	16	GLY	CA-C-O	-7.92	115.92	122.33
1	N8	16	GLY	CA-C-O	-7.91	115.92	122.33
1	F1	16	GLY	CA-C-O	-7.91	115.92	122.33
1	FV	16	GLY	CA-C-O	-7.91	115.92	122.33
1	Ng	16	GLY	CA-C-O	-7.91	115.92	122.33
1	Nm	16	GLY	CA-C-O	-7.91	115.92	122.33
3	Yh	723	LEU	N-CA-C	-7.91	102.68	112.88
1	NV	16	GLY	CA-C-O	-7.91	115.93	122.33
1	Ab	42	GLY	CA-C-O	-7.91	116.78	122.23
1	FF	16	GLY	CA-C-O	-7.91	115.93	122.33
1	FX	16	GLY	CA-C-O	-7.90	115.93	122.33
1	NG	16	GLY	CA-C-O	-7.90	115.93	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ah	74	GLY	N-CA-C	7.90	119.54	111.56
1	Nk	16	GLY	CA-C-O	-7.90	115.93	122.33
1	NA	16	GLY	CA-C-O	-7.90	115.93	122.33
1	N4	16	GLY	CA-C-O	-7.90	115.93	122.33
1	N5	16	GLY	CA-C-O	-7.90	115.93	122.33
1	NP	16	GLY	CA-C-O	-7.90	115.93	122.33
1	FU	16	GLY	CA-C-O	-7.90	115.93	122.33
1	AD	74	GLY	N-CA-C	7.90	119.54	111.56
1	AS	74	GLY	N-CA-C	7.90	119.54	111.56
1	Nf	16	GLY	CA-C-O	-7.90	115.93	122.33
1	NS	16	GLY	CA-C-O	-7.90	115.93	122.33
1	AF	74	GLY	N-CA-C	7.90	119.54	111.56
1	Nv	16	GLY	CA-C-O	-7.90	115.93	122.33
1	N1	16	GLY	CA-C-O	-7.90	115.93	122.33
1	Ne	16	GLY	CA-C-O	-7.90	115.93	122.33
1	Nh	16	GLY	CA-C-O	-7.90	115.93	122.33
1	AZ	42	GLY	CA-C-O	-7.90	116.78	122.23
1	Nw	16	GLY	CA-C-O	-7.90	115.93	122.33
1	Ni	16	GLY	CA-C-O	-7.89	115.94	122.33
1	An	74	GLY	N-CA-C	7.89	119.53	111.56
1	A4	74	GLY	N-CA-C	7.89	119.53	111.56
1	A0	74	GLY	N-CA-C	7.89	119.53	111.56
1	AY	74	GLY	N-CA-C	7.89	119.53	111.56
1	Nc	16	GLY	CA-C-O	-7.89	115.94	122.33
1	Nb	16	GLY	CA-C-O	-7.89	115.94	122.33
1	FY	16	GLY	CA-C-O	-7.89	115.94	122.33
1	FG	16	GLY	CA-C-O	-7.89	115.94	122.33
3	YD	723	LEU	N-CA-C	-7.89	102.71	112.88
1	F8	16	GLY	CA-C-O	-7.89	115.94	122.33
3	YS	723	LEU	N-CA-C	-7.89	102.71	112.88
1	FN	16	GLY	CA-C-O	-7.89	115.94	122.33
1	Fi	16	GLY	CA-C-O	-7.89	115.94	122.33
1	Nd	16	GLY	CA-C-O	-7.89	115.94	122.33
1	Nr	16	GLY	CA-C-O	-7.89	115.94	122.33
1	F4	16	GLY	CA-C-O	-7.88	115.94	122.33
1	G0	74	GLY	N-CA-C	7.88	123.03	111.76
1	FJ	16	GLY	CA-C-O	-7.88	115.94	122.33
1	GF	74	GLY	N-CA-C	7.88	123.03	111.76
1	AY	42	GLY	CA-C-O	-7.88	116.79	122.23
1	F6	16	GLY	CA-C-O	-7.88	115.95	122.33
1	Gj	74	GLY	N-CA-C	7.88	123.03	111.76
1	N9	16	GLY	CA-C-O	-7.88	115.95	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AO	74	GLY	N-CA-C	7.88	119.52	111.56
1	NO	16	GLY	CA-C-O	-7.88	115.95	122.33
1	Ns	16	GLY	CA-C-O	-7.88	115.95	122.33
1	FW	16	GLY	CA-C-O	-7.88	115.95	122.33
1	Fl	16	GLY	CA-C-O	-7.88	115.95	122.33
1	NE	16	GLY	CA-C-O	-7.87	115.95	122.33
1	Fd	16	GLY	CA-C-O	-7.87	115.95	122.33
1	F2	16	GLY	CA-C-O	-7.87	115.95	122.33
1	AM	74	GLY	N-CA-C	7.87	119.51	111.56
1	Fc	16	GLY	CA-C-O	-7.87	115.95	122.33
1	N0	16	GLY	CA-C-O	-7.87	115.95	122.33
1	NU	16	GLY	CA-C-O	-7.87	115.95	122.33
1	N6	16	GLY	CA-C-O	-7.87	115.96	122.33
1	GU	74	GLY	N-CA-C	7.87	123.01	111.76
1	NL	16	GLY	CA-C-O	-7.87	115.96	122.33
1	AJ	42	GLY	CA-C-O	-7.87	116.80	122.23
1	FL	16	GLY	CA-C-O	-7.87	115.96	122.33
1	AK	42	GLY	CA-C-O	-7.86	116.80	122.23
1	Ao	42	GLY	CA-C-O	-7.86	116.81	122.23
1	NJ	16	GLY	CA-C-O	-7.86	115.96	122.33
3	XG	646	ALA	N-CA-C	7.86	119.85	111.28
1	AJ	74	GLY	N-CA-C	7.86	119.50	111.56
1	NY	16	GLY	CA-C-O	-7.86	115.96	122.33
1	Nn	16	GLY	CA-C-O	-7.86	115.96	122.33
1	NT	16	GLY	CA-C-O	-7.86	115.96	122.33
1	F9	16	GLY	CA-C-O	-7.86	115.97	122.33
1	AU	74	GLY	N-CA-C	7.86	119.50	111.56
1	AD	42	GLY	CA-C-O	-7.86	116.81	122.23
1	AS	42	GLY	CA-C-O	-7.86	116.81	122.23
1	Aq	42	GLY	CA-C-O	-7.85	116.81	122.23
1	FH	16	GLY	CA-C-O	-7.85	115.97	122.33
1	FO	16	GLY	CA-C-O	-7.85	115.97	122.33
1	NF	16	GLY	CA-C-O	-7.85	115.97	122.33
1	Fa	16	GLY	CA-C-O	-7.85	115.97	122.33
1	Fn	16	GLY	CA-C-O	-7.85	115.97	122.33
1	Fj	16	GLY	CA-C-O	-7.85	115.97	122.33
1	Fp	16	GLY	CA-C-O	-7.85	115.97	122.33
1	Nj	16	GLY	CA-C-O	-7.85	115.97	122.33
1	A4	42	GLY	CA-C-O	-7.85	116.81	122.23
1	FD	16	GLY	CA-C-O	-7.85	115.97	122.33
1	NK	16	GLY	CA-C-O	-7.85	115.97	122.33
1	NZ	16	GLY	CA-C-O	-7.85	115.97	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Fq	16	GLY	CA-C-O	-7.85	115.97	122.33
1	AE	42	GLY	CA-C-O	-7.85	116.82	122.23
3	Xq	621	VAL	N-CA-C	-7.85	103.78	112.80
1	F7	16	GLY	CA-C-O	-7.84	115.98	122.33
1	Au	42	GLY	CA-C-O	-7.84	116.82	122.23
1	NX	16	GLY	CA-C-O	-7.84	115.98	122.33
1	A9	42	GLY	CA-C-O	-7.84	116.82	122.23
1	Ad	42	GLY	CA-C-O	-7.84	116.82	122.23
3	Ys	707	ILE	N-CA-C	-7.83	104.92	112.29
1	MF	18	VAL	O-C-N	7.83	125.43	120.42
1	FM	16	GLY	CA-C-O	-7.83	115.99	122.33
1	Aw	74	GLY	N-CA-C	7.83	119.47	111.56
1	Ft	16	GLY	CA-C-O	-7.83	115.99	122.33
1	Nx	16	GLY	CA-C-O	-7.83	115.99	122.33
1	A5	42	GLY	CA-C-O	-7.83	116.83	122.23
1	Ai	42	GLY	CA-C-O	-7.83	116.83	122.23
1	Fb	16	GLY	CA-C-O	-7.83	115.99	122.33
1	FB	16	GLY	CA-C-O	-7.83	115.99	122.33
1	A2	42	GLY	CA-C-O	-7.83	116.83	122.23
1	FQ	16	GLY	CA-C-O	-7.83	115.99	122.33
1	Al	42	GLY	CA-C-O	-7.83	116.83	122.23
1	AH	42	GLY	CA-C-O	-7.82	116.83	122.23
1	AO	42	GLY	CA-C-O	-7.82	116.83	122.23
1	FA	16	GLY	CA-C-O	-7.82	116.00	122.33
1	No	16	GLY	CA-C-O	-7.82	116.00	122.33
1	Af	42	GLY	CA-C-O	-7.81	116.84	122.23
1	FP	16	GLY	CA-C-O	-7.81	116.00	122.33
1	As	42	GLY	CA-C-O	-7.81	116.84	122.23
1	DM	54	THR	N-CA-C	-7.81	103.64	113.01
1	A7	42	GLY	CA-C-O	-7.80	116.84	122.23
1	AG	42	GLY	CA-C-O	-7.80	116.84	122.23
1	AM	42	GLY	CA-C-O	-7.80	116.84	122.23
3	Y9	707	ILE	N-CA-C	-7.80	104.95	112.29
3	YO	707	ILE	N-CA-C	-7.80	104.95	112.29
1	Ah	42	GLY	CA-C-O	-7.80	116.85	122.23
3	Yd	707	ILE	N-CA-C	-7.80	104.95	112.29
1	AA	42	GLY	CA-C-O	-7.80	116.85	122.23
1	AP	42	GLY	CA-C-O	-7.80	116.85	122.23
1	Ff	16	GLY	CA-C-O	-7.79	116.02	122.33
1	Na	16	GLY	CA-C-O	-7.79	116.02	122.33
1	Ak	42	GLY	CA-C-O	-7.79	116.85	122.23
1	FS	16	GLY	CA-C-O	-7.79	116.02	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Fe	16	GLY	CA-C-O	-7.79	116.02	122.33
1	AB	42	GLY	CA-C-O	-7.78	116.86	122.23
1	AV	42	GLY	CA-C-O	-7.78	116.86	122.23
1	AF	42	GLY	CA-C-O	-7.78	116.86	122.23
1	Ax	42	GLY	CA-C-O	-7.78	116.86	122.23
1	A0	42	GLY	CA-C-O	-7.77	116.87	122.23
1	Aw	42	GLY	CA-C-O	-7.77	116.87	122.23
1	DY	74	GLY	N-CA-C	7.77	121.12	110.56
1	Ar	42	GLY	CA-C-O	-7.76	116.87	122.23
1	Fu	16	GLY	CA-C-O	-7.76	116.04	122.33
1	Np	16	GLY	CA-C-O	-7.75	116.05	122.33
1	AL	42	GLY	CA-C-O	-7.75	116.88	122.23
1	A1	42	GLY	CA-C-O	-7.75	116.88	122.23
1	Ae	42	GLY	CA-C-O	-7.75	116.88	122.23
1	Fh	16	GLY	CA-C-O	-7.75	116.05	122.33
1	Aa	42	GLY	CA-C-O	-7.74	116.89	122.23
1	Ap	42	GLY	CA-C-O	-7.74	116.89	122.23
1	AQ	42	GLY	CA-C-O	-7.74	116.89	122.23
1	AW	42	GLY	CA-C-O	-7.74	116.89	122.23
1	Fw	16	GLY	CA-C-O	-7.73	116.07	122.33
1	At	42	GLY	CA-C-O	-7.72	116.91	122.23
1	AU	42	GLY	CA-C-O	-7.71	116.91	122.23
1	Aj	42	GLY	CA-C-O	-7.71	116.91	122.23
1	Ac	42	GLY	CA-C-O	-7.69	116.92	122.23
1	A6	42	GLY	CA-C-O	-7.69	116.92	122.23
1	A3	42	GLY	CA-C-O	-7.69	116.93	122.23
1	DI	42	GLY	CA-C-O	-7.68	117.23	122.22
1	AX	42	GLY	CA-C-O	-7.68	116.93	122.23
1	AC	42	GLY	CA-C-O	-7.67	116.94	122.23
1	AI	42	GLY	CA-C-O	-7.67	116.94	122.23
1	Am	42	GLY	CA-C-O	-7.67	116.94	122.23
1	AR	42	GLY	CA-C-O	-7.66	116.95	122.23
1	Ag	42	GLY	CA-C-O	-7.66	116.95	122.23
1	Av	42	GLY	CA-C-O	-7.66	116.95	122.23
1	GC	73	ASP	CB-CA-C	7.63	124.38	109.72
1	A8	42	GLY	CA-C-O	-7.63	116.97	122.23
1	AN	42	GLY	CA-C-O	-7.63	116.97	122.23
1	Gc	73	ASP	CB-CA-C	7.63	124.37	109.72
1	Gn	73	ASP	CB-CA-C	7.63	124.37	109.72
1	DM	67	ALA	N-CA-C	7.63	119.60	111.28
1	GO	73	ASP	CB-CA-C	7.63	124.37	109.72
1	GY	73	ASP	CB-CA-C	7.63	124.37	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Gw	73	ASP	CB-CA-C	7.62	124.35	109.72
1	El	16	GLY	CA-C-O	-7.62	115.35	122.13
1	Gd	73	ASP	CB-CA-C	7.62	124.35	109.72
1	Gs	73	ASP	CB-CA-C	7.62	124.35	109.72
1	GI	73	ASP	CB-CA-C	7.62	124.34	109.72
1	G9	73	ASP	CB-CA-C	7.62	124.34	109.72
1	GZ	73	ASP	CB-CA-C	7.62	124.34	109.72
1	Gq	73	ASP	CB-CA-C	7.62	124.34	109.72
1	G4	73	ASP	CB-CA-C	7.61	124.34	109.72
1	Ga	73	ASP	CB-CA-C	7.61	124.33	109.72
1	Gp	73	ASP	CB-CA-C	7.61	124.33	109.72
1	Gh	73	ASP	CB-CA-C	7.61	124.33	109.72
1	G1	73	ASP	CB-CA-C	7.61	124.33	109.72
1	Gr	73	ASP	CB-CA-C	7.61	124.33	109.72
1	GV	73	ASP	CB-CA-C	7.61	124.33	109.72
1	Gv	73	ASP	CB-CA-C	7.61	124.33	109.72
1	Gk	73	ASP	CB-CA-C	7.61	124.33	109.72
1	GD	73	ASP	CB-CA-C	7.61	124.32	109.72
1	G6	73	ASP	CB-CA-C	7.61	124.32	109.72
1	GR	73	ASP	CB-CA-C	7.61	124.32	109.72
1	GS	73	ASP	CB-CA-C	7.61	124.32	109.72
1	Gi	73	ASP	CB-CA-C	7.61	124.32	109.72
1	GJ	73	ASP	CB-CA-C	7.60	124.32	109.72
1	GL	73	ASP	CB-CA-C	7.60	124.32	109.72
1	Ef	16	GLY	CA-C-O	-7.60	115.36	122.13
1	Eu	16	GLY	CA-C-O	-7.60	115.36	122.13
1	G3	73	ASP	CB-CA-C	7.60	124.31	109.72
1	Gg	73	ASP	CB-CA-C	7.60	124.31	109.72
1	Gm	73	ASP	CB-CA-C	7.60	124.31	109.72
1	GT	73	ASP	CB-CA-C	7.60	124.31	109.72
1	Gb	73	ASP	CB-CA-C	7.60	124.31	109.72
1	Gt	73	ASP	CB-CA-C	7.60	124.30	109.72
1	GG	73	ASP	CB-CA-C	7.59	124.30	109.72
1	G8	73	ASP	CB-CA-C	7.59	124.30	109.72
1	GE	73	ASP	CB-CA-C	7.59	124.29	109.72
1	GK	73	ASP	CB-CA-C	7.59	124.29	109.72
3	XZ	724	ILE	N-CA-C	7.59	119.37	109.58
1	Gx	73	ASP	CB-CA-C	7.59	124.29	109.72
1	Eb	16	GLY	CA-C-O	-7.59	115.38	122.13
1	Eq	16	GLY	CA-C-O	-7.59	115.38	122.13
1	G7	73	ASP	CB-CA-C	7.58	124.28	109.72
1	GP	73	ASP	CB-CA-C	7.58	124.28	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GM	73	ASP	CB-CA-C	7.58	124.28	109.72
1	Ge	73	ASP	CB-CA-C	7.58	124.28	109.72
1	E7	16	GLY	CA-C-O	-7.58	115.38	122.13
1	GX	73	ASP	CB-CA-C	7.58	124.27	109.72
1	Go	73	ASP	CB-CA-C	7.58	124.27	109.72
1	G5	73	ASP	CB-CA-C	7.58	124.27	109.72
1	EW	16	GLY	CA-C-O	-7.58	115.39	122.13
3	Xo	724	ILE	N-CA-C	7.58	119.35	109.58
1	EB	16	GLY	CA-C-O	-7.57	115.39	122.13
1	GA	73	ASP	CB-CA-C	7.57	124.25	109.72
1	GN	73	ASP	CB-CA-C	7.57	124.25	109.72
1	DB	94	LYS	N-CA-C	-7.56	103.65	113.17
3	X5	724	ILE	N-CA-C	7.56	119.33	109.58
1	Ko	42	GLY	CA-C-O	-7.55	115.99	121.88
3	XK	724	ILE	N-CA-C	7.55	119.31	109.58
3	Ym	723	LEU	N-CA-C	-7.55	103.64	112.92
1	E2	16	GLY	CA-C-O	-7.54	115.42	122.13
1	D7	95	ALA	N-CA-C	7.54	115.00	108.22
3	YX	723	LEU	N-CA-C	-7.54	103.65	112.92
1	EQ	16	GLY	CA-C-O	-7.53	115.43	122.13
1	Eh	16	GLY	CA-C-O	-7.53	115.43	122.13
1	Ew	16	GLY	CA-C-O	-7.53	115.43	122.13
1	KF	42	GLY	CA-C-O	-7.53	116.01	121.88
3	YI	723	LEU	N-CA-C	-7.53	103.66	112.92
1	EM	16	GLY	CA-C-O	-7.52	115.43	122.13
1	Kj	42	GLY	CA-C-O	-7.52	116.01	121.88
3	Y3	723	LEU	N-CA-C	-7.52	103.67	112.92
1	ES	16	GLY	CA-C-O	-7.52	115.44	122.13
1	EY	16	GLY	CA-C-O	-7.52	115.44	122.13
1	KX	42	GLY	CA-C-O	-7.52	116.02	121.88
1	Ed	16	GLY	CA-C-O	-7.52	115.44	122.13
1	KR	42	GLY	CA-C-O	-7.51	116.02	121.88
1	KO	42	GLY	CA-C-O	-7.51	116.02	121.88
1	Ks	42	GLY	CA-C-O	-7.51	116.02	121.88
1	ED	16	GLY	CA-C-O	-7.51	115.44	122.13
3	YJ	723	LEU	N-CA-C	-7.51	103.71	113.17
1	K0	42	GLY	CA-C-O	-7.50	116.03	121.88
1	Ee	16	GLY	CA-C-O	-7.50	115.45	122.13
1	Kc	42	GLY	CA-C-O	-7.50	116.03	121.88
1	Ej	16	GLY	CA-C-O	-7.50	115.45	122.13
1	E9	16	GLY	CA-C-O	-7.50	115.45	122.13
1	Er	16	GLY	CA-C-O	-7.50	115.45	122.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Es	16	GLY	CA-C-O	-7.50	115.45	122.13
1	Kr	42	GLY	CA-C-O	-7.50	116.03	121.88
1	EH	16	GLY	CA-C-O	-7.50	115.45	122.13
1	K5	42	GLY	CA-C-O	-7.50	116.03	121.88
1	K8	42	GLY	CA-C-O	-7.50	116.03	121.88
1	KN	42	GLY	CA-C-O	-7.50	116.03	121.88
1	Ki	42	GLY	CA-C-O	-7.50	116.03	121.88
1	EX	16	GLY	CA-C-O	-7.50	115.46	122.13
1	KZ	42	GLY	CA-C-O	-7.50	116.03	121.88
1	D7	42	GLY	N-CA-C	-7.50	103.89	112.29
1	EJ	16	GLY	CA-C-O	-7.49	115.46	122.13
1	Ep	16	GLY	CA-C-O	-7.49	115.46	122.13
1	E6	16	GLY	CA-C-O	-7.49	115.46	122.13
1	K6	42	GLY	CA-C-O	-7.49	116.04	121.88
1	ET	16	GLY	CA-C-O	-7.49	115.46	122.13
1	Ea	16	GLY	CA-C-O	-7.49	115.46	122.13
1	Km	42	GLY	CA-C-O	-7.49	116.04	121.88
1	Kg	42	GLY	CA-C-O	-7.49	116.04	121.88
1	EP	16	GLY	CA-C-O	-7.49	115.47	122.13
1	E1	16	GLY	CA-C-O	-7.49	115.47	122.13
1	EG	16	GLY	CA-C-O	-7.49	115.47	122.13
1	KK	42	GLY	CA-C-O	-7.48	116.04	121.88
1	E4	16	GLY	CA-C-O	-7.48	115.47	122.13
1	K2	42	GLY	CA-C-O	-7.48	116.04	121.88
3	Y4	723	LEU	N-CA-C	-7.48	103.75	113.17
1	KG	42	GLY	CA-C-O	-7.48	116.05	121.88
1	KU	42	GLY	CA-C-O	-7.48	116.05	121.88
1	EU	16	GLY	CA-C-O	-7.48	115.48	122.13
3	Xu	693	THR	CB-CA-C	7.48	120.52	109.08
1	En	16	GLY	CA-C-O	-7.48	115.47	122.13
1	EA	16	GLY	CA-C-O	-7.48	115.48	122.13
1	Eg	16	GLY	CA-C-O	-7.48	115.48	122.13
1	Kd	42	GLY	CA-C-O	-7.48	116.05	121.88
1	EO	16	GLY	CA-C-O	-7.47	115.48	122.13
3	Xf	693	THR	CB-CA-C	7.47	120.52	109.08
1	KY	42	GLY	CA-C-O	-7.47	116.05	121.88
1	EL	54	THR	N-CA-C	7.47	120.08	111.11
1	KE	42	GLY	CA-C-O	-7.47	116.05	121.88
3	XB	693	THR	CB-CA-C	7.47	120.51	109.08
3	XQ	693	THR	CB-CA-C	7.47	120.51	109.08
1	Et	16	GLY	CA-C-O	-7.47	115.48	122.13
1	Kx	42	GLY	CA-C-O	-7.47	116.05	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	EE	16	GLY	CA-C-O	-7.47	115.48	122.13
1	KV	42	GLY	CA-C-O	-7.47	116.06	121.88
1	Ex	16	GLY	CA-C-O	-7.47	115.48	122.13
1	DF	74	GLY	N-CA-C	7.47	125.53	112.83
1	K3	42	GLY	CA-C-O	-7.47	116.06	121.88
3	Ys	861	ILE	N-CA-C	-7.47	99.25	109.55
1	KC	42	GLY	CA-C-O	-7.46	116.06	121.88
1	K7	42	GLY	CA-C-O	-7.46	116.06	121.88
1	K9	42	GLY	CA-C-O	-7.46	116.06	121.88
1	Ec	16	GLY	CA-C-O	-7.46	115.49	122.13
1	E3	16	GLY	CA-C-O	-7.46	115.49	122.13
3	YN	861	ILE	N-CA-C	-7.46	99.25	109.55
1	KT	42	GLY	CA-C-O	-7.46	116.06	121.88
3	Yd	861	ILE	N-CA-C	-7.46	99.26	109.55
1	EI	16	GLY	CA-C-O	-7.46	115.49	122.13
1	K1	42	GLY	CA-C-O	-7.46	116.06	121.88
1	Kk	42	GLY	CA-C-O	-7.46	116.06	121.88
1	Kn	42	GLY	CA-C-O	-7.46	116.06	121.88
3	Yl	861	ILE	N-CA-C	-7.45	99.27	109.55
3	XD	693	THR	CB-CA-C	7.45	120.48	109.08
3	XS	693	THR	CB-CA-C	7.45	120.48	109.08
1	K4	42	GLY	CA-C-O	-7.45	116.07	121.88
1	KP	42	GLY	CA-C-O	-7.45	116.07	121.88
1	KJ	42	GLY	CA-C-O	-7.45	116.07	121.88
3	Yb	861	ILE	N-CA-C	-7.45	99.27	109.55
3	Yi	861	ILE	N-CA-C	-7.45	99.27	109.55
1	EV	16	GLY	CA-C-O	-7.45	115.50	122.13
1	KM	42	GLY	CA-C-O	-7.45	116.07	121.88
1	Eo	16	GLY	CA-C-O	-7.45	115.50	122.13
1	Em	16	GLY	CA-C-O	-7.45	115.50	122.13
3	YJ	861	ILE	N-CA-C	-7.44	99.28	109.55
3	Y9	861	ILE	N-CA-C	-7.44	99.28	109.55
3	XT	693	THR	CB-CA-C	7.44	120.47	109.08
1	Ei	16	GLY	CA-C-O	-7.44	115.51	122.13
3	YY	861	ILE	N-CA-C	-7.44	99.28	109.55
1	E8	16	GLY	CA-C-O	-7.44	115.51	122.13
1	KW	42	GLY	CA-C-O	-7.44	116.08	121.88
1	KA	42	GLY	CA-C-O	-7.44	116.08	121.88
1	E5	16	GLY	CA-C-O	-7.43	115.51	122.13
1	EK	16	GLY	CA-C-O	-7.43	115.51	122.13
1	KL	42	GLY	CA-C-O	-7.43	116.08	121.88
1	Ka	42	GLY	CA-C-O	-7.43	116.08	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ev	16	GLY	CA-C-O	-7.43	115.51	122.13
3	Xx	693	THR	CB-CA-C	7.43	120.45	109.08
3	Y3	861	ILE	N-CA-C	-7.43	99.29	109.55
3	XC	693	THR	CB-CA-C	7.43	120.45	109.08
1	E0	16	GLY	CA-C-O	-7.43	115.52	122.13
3	XR	693	THR	CB-CA-C	7.43	120.45	109.08
1	KH	42	GLY	CA-C-O	-7.43	116.08	121.88
3	YO	861	ILE	N-CA-C	-7.43	99.29	109.55
3	YL	861	ILE	N-CA-C	-7.43	99.30	109.55
1	ER	16	GLY	CA-C-O	-7.43	115.52	122.13
1	Ke	42	GLY	CA-C-O	-7.43	116.08	121.88
3	Yg	861	ILE	N-CA-C	-7.43	99.30	109.55
3	YW	861	ILE	N-CA-C	-7.43	99.30	109.55
3	YX	861	ILE	N-CA-C	-7.43	99.30	109.55
3	Y8	861	ILE	N-CA-C	-7.43	99.30	109.55
3	YG	861	ILE	N-CA-C	-7.43	99.30	109.55
3	Yv	861	ILE	N-CA-C	-7.43	99.30	109.55
3	Y4	861	ILE	N-CA-C	-7.43	99.30	109.55
1	Mw	10	GLY	CA-C-O	-7.43	115.15	120.94
1	KD	42	GLY	CA-C-O	-7.42	116.09	121.88
3	Yk	861	ILE	N-CA-C	-7.42	99.30	109.55
3	Xh	693	THR	CB-CA-C	7.42	120.44	109.08
1	KB	42	GLY	CA-C-O	-7.42	116.09	121.88
3	XE	693	THR	CB-CA-C	7.42	120.44	109.08
3	YI	861	ILE	N-CA-C	-7.42	99.31	109.55
1	Kf	42	GLY	CA-C-O	-7.42	116.09	121.88
1	EZ	16	GLY	CA-C-O	-7.42	115.52	122.13
3	YM	861	ILE	N-CA-C	-7.42	99.31	109.55
1	KI	42	GLY	CA-C-O	-7.42	116.09	121.88
3	YT	861	ILE	N-CA-C	-7.42	99.31	109.55
1	Kb	42	GLY	CA-C-O	-7.42	116.09	121.88
1	Kh	42	GLY	CA-C-O	-7.42	116.09	121.88
3	Xg	693	THR	CB-CA-C	7.42	120.43	109.08
3	Y7	861	ILE	N-CA-C	-7.41	99.32	109.55
3	Ym	861	ILE	N-CA-C	-7.41	99.32	109.55
3	YE	861	ILE	N-CA-C	-7.41	99.32	109.55
3	Xi	693	THR	CB-CA-C	7.41	120.42	109.08
3	Yh	861	ILE	N-CA-C	-7.41	99.32	109.55
3	YU	861	ILE	N-CA-C	-7.41	99.33	109.55
3	Yw	861	ILE	N-CA-C	-7.41	99.32	109.55
3	Yx	861	ILE	N-CA-C	-7.41	99.32	109.55
3	Yj	861	ILE	N-CA-C	-7.41	99.33	109.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	YH	861	ILE	N-CA-C	-7.41	99.33	109.55
3	Yc	861	ILE	N-CA-C	-7.41	99.33	109.55
1	Kp	42	GLY	CA-C-O	-7.41	116.10	121.88
3	Y2	861	ILE	N-CA-C	-7.41	99.33	109.55
3	YD	861	ILE	N-CA-C	-7.41	99.33	109.55
1	EN	16	GLY	CA-C-O	-7.41	115.54	122.13
3	Ya	861	ILE	N-CA-C	-7.41	99.33	109.55
1	Ek	16	GLY	CA-C-O	-7.41	115.54	122.13
3	YC	861	ILE	N-CA-C	-7.40	99.33	109.55
3	Y1	861	ILE	N-CA-C	-7.40	99.33	109.55
3	YR	861	ILE	N-CA-C	-7.40	99.33	109.55
3	Yf	861	ILE	N-CA-C	-7.40	99.33	109.55
3	YB	861	ILE	N-CA-C	-7.40	99.33	109.55
3	Y6	861	ILE	N-CA-C	-7.40	99.33	109.55
3	YQ	861	ILE	N-CA-C	-7.40	99.34	109.55
1	Kq	42	GLY	CA-C-O	-7.40	116.11	121.88
3	Yp	861	ILE	N-CA-C	-7.40	99.33	109.55
3	Yq	861	ILE	N-CA-C	-7.40	99.33	109.55
1	EC	16	GLY	CA-C-O	-7.40	115.54	122.13
3	Yn	861	ILE	N-CA-C	-7.40	99.34	109.55
3	Xw	693	THR	CB-CA-C	7.40	120.40	109.08
1	KQ	42	GLY	CA-C-O	-7.39	116.11	121.88
3	Xv	693	THR	CB-CA-C	7.39	120.39	109.08
3	Yu	861	ILE	N-CA-C	-7.39	99.34	109.55
3	YV	861	ILE	N-CA-C	-7.39	99.35	109.55
1	Kw	42	GLY	CA-C-O	-7.39	116.11	121.88
3	Xb	693	THR	N-CA-C	-7.39	97.57	109.40
1	Kv	42	GLY	CA-C-O	-7.39	116.11	121.88
3	Y5	861	ILE	N-CA-C	-7.39	99.35	109.55
3	Xq	693	THR	N-CA-C	-7.39	97.58	109.40
1	KS	42	GLY	CA-C-O	-7.39	116.12	121.88
3	YS	861	ILE	N-CA-C	-7.39	99.36	109.55
1	Kl	42	GLY	CA-C-O	-7.38	116.12	121.88
3	YQ	723	LEU	N-CA-C	-7.38	103.36	112.88
3	YZ	861	ILE	N-CA-C	-7.38	99.36	109.55
3	Y0	861	ILE	N-CA-C	-7.38	99.37	109.55
3	Yo	861	ILE	N-CA-C	-7.38	99.37	109.55
3	X7	693	THR	N-CA-C	-7.38	97.60	109.40
3	XM	693	THR	N-CA-C	-7.37	97.61	109.40
3	YA	861	ILE	N-CA-C	-7.37	99.38	109.55
1	Mh	10	GLY	CA-C-O	-7.37	115.19	120.94
1	Ku	42	GLY	CA-C-O	-7.37	116.13	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Yr	861	ILE	N-CA-C	-7.37	99.39	109.55
3	YK	861	ILE	N-CA-C	-7.36	99.39	109.55
3	Ye	861	ILE	N-CA-C	-7.36	99.39	109.55
1	DB	42	GLY	N-CA-C	-7.36	104.05	112.29
3	YP	861	ILE	N-CA-C	-7.36	99.40	109.55
3	YF	861	ILE	N-CA-C	-7.36	99.40	109.55
1	Mb	10	GLY	CA-C-O	-7.36	115.20	120.94
3	YB	723	LEU	N-CA-C	-7.35	103.39	112.88
1	MW	10	GLY	CA-C-O	-7.35	115.21	120.94
1	Mq	10	GLY	CA-C-O	-7.35	115.21	120.94
3	Yt	861	ILE	N-CA-C	-7.35	99.41	109.55
1	Ml	10	GLY	CA-C-O	-7.35	115.21	120.94
3	Yf	723	LEU	N-CA-C	-7.34	103.42	112.88
1	MY	10	GLY	CA-C-O	-7.34	115.22	120.94
1	Mn	10	GLY	CA-C-O	-7.34	115.22	120.94
1	MJ	10	GLY	CA-C-O	-7.33	115.22	120.94
1	MD	10	GLY	CA-C-O	-7.33	115.22	120.94
1	MS	10	GLY	CA-C-O	-7.33	115.22	120.94
1	M4	10	GLY	CA-C-O	-7.32	115.23	120.94
1	M7	10	GLY	CA-C-O	-7.32	115.23	120.94
3	Yu	723	LEU	N-CA-C	-7.32	103.44	112.88
1	MB	10	GLY	CA-C-O	-7.32	115.23	120.94
1	MQ	10	GLY	CA-C-O	-7.32	115.23	120.94
2	PO	42	ILE	CA-C-O	-7.32	115.90	121.68
1	Ho	16	GLY	CA-C-O	-7.32	117.18	122.45
2	Pd	42	ILE	CA-C-O	-7.31	115.91	121.68
1	MO	10	GLY	CA-C-O	-7.31	115.24	120.94
1	Mf	10	GLY	CA-C-O	-7.31	115.24	120.94
1	MA	76	VAL	N-CA-C	-7.30	104.66	111.45
1	M2	10	GLY	CA-C-O	-7.30	115.24	120.94
2	PV	42	ILE	CA-C-O	-7.30	115.91	121.68
1	Mp	10	GLY	CA-C-O	-7.30	115.25	120.94
1	MH	10	GLY	CA-C-O	-7.30	115.25	120.94
1	Mx	76	VAL	N-CA-C	-7.30	104.67	111.45
1	MM	10	GLY	CA-C-O	-7.29	115.25	120.94
1	MR	76	VAL	N-CA-C	-7.29	104.67	111.45
1	Ho	76	VAL	N-CA-C	-7.29	105.54	111.81
2	Ps	42	ILE	CA-C-O	-7.29	115.92	121.68
3	XN	650	GLY	N-CA-C	-7.29	101.15	112.45
1	Hj	76	VAL	N-CA-C	-7.29	105.54	111.81
2	P4	42	ILE	CA-C-O	-7.29	115.92	121.68
2	PJ	42	ILE	CA-C-O	-7.29	115.92	121.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	MA	10	GLY	CA-C-O	-7.28	115.26	120.94
1	MC	10	GLY	CA-C-O	-7.28	115.26	120.94
1	MR	10	GLY	CA-C-O	-7.28	115.26	120.94
1	Me	10	GLY	CA-C-O	-7.28	115.26	120.94
1	Mt	76	VAL	N-CA-C	-7.28	104.68	111.45
1	Ms	76	VAL	N-CA-C	-7.28	104.68	111.45
2	PY	42	ILE	CA-C-O	-7.28	115.93	121.68
1	Mh	76	VAL	N-CA-C	-7.28	104.68	111.45
1	Mi	76	VAL	N-CA-C	-7.28	104.68	111.45
1	Ma	10	GLY	CA-C-O	-7.28	115.26	120.94
1	M9	10	GLY	CA-C-O	-7.28	115.27	120.94
2	Pn	42	ILE	CA-C-O	-7.28	115.93	121.68
1	Mo	10	GLY	CA-C-O	-7.27	115.27	120.94
1	Mm	10	GLY	CA-C-O	-7.27	115.27	120.94
1	M1	10	GLY	CA-C-O	-7.27	115.27	120.94
1	MG	10	GLY	CA-C-O	-7.27	115.27	120.94
1	Mu	10	GLY	CA-C-O	-7.27	115.27	120.94
2	Pk	42	ILE	CA-C-O	-7.27	115.94	121.68
1	Md	76	VAL	N-CA-C	-7.27	104.69	111.45
1	Mr	10	GLY	CA-C-O	-7.27	115.27	120.94
1	MP	10	GLY	CA-C-O	-7.27	115.27	120.94
1	Mc	10	GLY	CA-C-O	-7.27	115.27	120.94
1	Mb	76	VAL	N-CA-C	-7.26	104.69	111.45
1	M9	76	VAL	N-CA-C	-7.26	104.69	111.45
2	P9	42	ILE	CA-C-O	-7.26	115.94	121.68
1	Hb	16	GLY	CA-C-O	-7.26	117.22	122.45
1	M8	10	GLY	CA-C-O	-7.26	115.28	120.94
1	MN	10	GLY	CA-C-O	-7.26	115.28	120.94
1	ML	76	VAL	N-CA-C	-7.26	104.70	111.45
1	HZ	16	GLY	CA-C-O	-7.26	117.23	122.45
1	Mv	10	GLY	CA-C-O	-7.26	115.28	120.94
1	Mk	76	VAL	N-CA-C	-7.26	104.70	111.45
1	M4	76	VAL	N-CA-C	-7.25	104.70	111.45
1	MJ	76	VAL	N-CA-C	-7.25	104.70	111.45
1	MO	76	VAL	N-CA-C	-7.25	104.70	111.45
1	MW	76	VAL	N-CA-C	-7.25	104.70	111.45
1	MX	10	GLY	CA-C-O	-7.25	115.28	120.94
1	MC	76	VAL	N-CA-C	-7.25	104.71	111.45
1	M6	10	GLY	CA-C-O	-7.25	115.28	120.94
1	Mw	76	VAL	N-CA-C	-7.25	104.71	111.45
1	M5	10	GLY	CA-C-O	-7.25	115.29	120.94
1	Me	76	VAL	N-CA-C	-7.25	104.71	111.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	MK	10	GLY	CA-C-O	-7.25	115.29	120.94
1	Hp	76	VAL	N-CA-C	-7.25	105.58	111.81
1	MV	10	GLY	CA-C-O	-7.25	115.29	120.94
3	XJ	724	ILE	N-CA-C	7.25	119.44	109.80
1	Ma	76	VAL	N-CA-C	-7.24	104.71	111.45
1	MI	10	GLY	CA-C-O	-7.24	115.29	120.94
1	M8	76	VAL	N-CA-C	-7.24	104.72	111.45
1	Mg	76	VAL	N-CA-C	-7.24	104.72	111.45
1	MV	76	VAL	N-CA-C	-7.24	104.72	111.45
1	Hr	16	GLY	CA-C-O	-7.24	117.24	122.45
1	H0	16	GLY	CA-C-O	-7.24	117.24	122.45
1	HU	16	GLY	CA-C-O	-7.24	117.24	122.45
1	Hj	16	GLY	CA-C-O	-7.24	117.24	122.45
1	H0	76	VAL	N-CA-C	-7.23	105.59	111.81
3	YG	723	LEU	N-CA-C	-7.23	103.55	112.88
1	HF	76	VAL	N-CA-C	-7.23	105.59	111.81
1	MT	10	GLY	CA-C-O	-7.23	115.30	120.94
2	Pe	42	ILE	CA-C-O	-7.23	115.97	121.68
1	HZ	76	VAL	N-CA-C	-7.23	105.59	111.81
1	Hu	76	VAL	N-CA-C	-7.23	105.59	111.81
1	M3	10	GLY	CA-C-O	-7.23	115.30	120.94
1	H6	76	VAL	N-CA-C	-7.23	105.60	111.81
1	MZ	10	GLY	CA-C-O	-7.23	115.30	120.94
1	Mt	10	GLY	CA-C-O	-7.23	115.30	120.94
1	HG	76	VAL	N-CA-C	-7.22	105.60	111.81
3	Y3	706	ASP	N-CA-C	7.22	120.71	110.23
1	HE	16	GLY	CA-C-O	-7.22	117.25	122.45
1	MB	76	VAL	N-CA-C	-7.22	104.74	111.45
1	H7	16	GLY	CA-C-O	-7.22	117.25	122.45
1	HT	16	GLY	CA-C-O	-7.22	117.25	122.45
1	MQ	76	VAL	N-CA-C	-7.22	104.74	111.45
1	HF	16	GLY	CA-C-O	-7.22	117.25	122.45
1	HV	76	VAL	N-CA-C	-7.22	105.60	111.81
1	Mj	10	GLY	CA-C-O	-7.22	115.31	120.94
1	M7	76	VAL	N-CA-C	-7.22	104.74	111.45
1	HY	76	VAL	N-CA-C	-7.22	105.60	111.81
1	MF	10	GLY	CA-C-O	-7.22	115.31	120.94
1	HA	76	VAL	N-CA-C	-7.22	105.60	111.81
1	ME	10	GLY	CA-C-O	-7.22	115.31	120.94
1	H5	16	GLY	CA-C-O	-7.22	117.25	122.45
1	HP	76	VAL	N-CA-C	-7.22	105.60	111.81
1	Mi	10	GLY	CA-C-O	-7.22	115.31	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ml	76	VAL	N-CA-C	-7.22	104.74	111.45
3	X4	724	ILE	N-CA-C	7.22	119.40	109.80
3	Xm	636	GLN	N-CA-C	7.22	119.62	110.24
1	H1	76	VAL	N-CA-C	-7.21	105.61	111.81
1	HL	76	VAL	N-CA-C	-7.21	105.61	111.81
1	Hl	76	VAL	N-CA-C	-7.21	105.61	111.81
3	XY	724	ILE	N-CA-C	7.21	119.39	109.80
2	PH	42	ILE	CA-C-O	-7.21	115.98	121.68
1	Mx	10	GLY	CA-C-O	-7.21	115.31	120.94
3	Y6	720	ALA	N-CA-C	7.21	121.47	111.74
1	Ha	76	VAL	N-CA-C	-7.21	105.61	111.81
1	Hc	76	VAL	N-CA-C	-7.21	105.61	111.81
1	Hq	76	VAL	N-CA-C	-7.21	105.61	111.81
1	H2	76	VAL	N-CA-C	-7.21	105.61	111.81
1	HH	76	VAL	N-CA-C	-7.21	105.61	111.81
1	Li	42	GLY	CA-C-O	-7.21	115.97	122.24
2	P2	42	ILE	CA-C-O	-7.21	115.98	121.68
3	Y1	723	LEU	N-CA-C	-7.21	103.58	112.88
1	M0	10	GLY	CA-C-O	-7.21	115.32	120.94
1	HT	76	VAL	N-CA-C	-7.21	105.61	111.81
3	YL	720	ALA	N-CA-C	7.21	121.47	111.74
1	Hw	76	VAL	N-CA-C	-7.21	105.61	111.81
1	HE	76	VAL	N-CA-C	-7.21	105.61	111.81
1	Hi	76	VAL	N-CA-C	-7.21	105.61	111.81
1	Hc	16	GLY	CA-C-O	-7.21	117.26	122.45
1	Hr	76	VAL	N-CA-C	-7.21	105.61	111.81
1	Mg	10	GLY	CA-C-O	-7.21	115.32	120.94
1	HQ	16	GLY	CA-C-O	-7.20	117.26	122.45
1	MM	76	VAL	N-CA-C	-7.20	104.75	111.45
1	HW	16	GLY	CA-C-O	-7.20	117.26	122.45
3	YV	723	LEU	N-CA-C	-7.20	103.59	112.88
1	Mk	10	GLY	CA-C-O	-7.20	115.32	120.94
3	Yk	723	LEU	N-CA-C	-7.20	103.59	112.88
1	He	16	GLY	CA-C-O	-7.20	117.27	122.45
3	Xn	724	ILE	N-CA-C	7.20	119.38	109.80
1	H5	76	VAL	N-CA-C	-7.20	105.62	111.81
1	HS	76	VAL	N-CA-C	-7.20	105.62	111.81
1	HK	76	VAL	N-CA-C	-7.20	105.62	111.81
1	Hk	76	VAL	N-CA-C	-7.20	105.62	111.81
1	ML	10	GLY	CA-C-O	-7.20	115.33	120.94
1	Lc	42	GLY	CA-C-O	-7.20	115.98	122.24
1	Hx	16	GLY	CA-C-O	-7.20	117.27	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Lx	42	GLY	CA-C-O	-7.20	115.98	122.24
1	H2	16	GLY	CA-C-O	-7.20	117.27	122.45
1	H4	76	VAL	N-CA-C	-7.20	105.62	111.81
1	HH	16	GLY	CA-C-O	-7.20	117.27	122.45
1	HJ	76	VAL	N-CA-C	-7.20	105.62	111.81
1	HM	16	GLY	CA-C-O	-7.20	117.27	122.45
1	Hb	76	VAL	N-CA-C	-7.20	105.62	111.81
2	Pt	42	ILE	CA-C-O	-7.20	116.00	121.68
1	Hl	16	GLY	CA-C-O	-7.20	117.27	122.45
2	Po	42	ILE	CA-C-O	-7.19	116.00	121.68
2	P1	42	ILE	CA-C-O	-7.19	116.00	121.68
1	H8	16	GLY	CA-C-O	-7.19	117.27	122.45
2	PG	42	ILE	CA-C-O	-7.19	116.00	121.68
1	HB	76	VAL	N-CA-C	-7.19	105.63	111.81
1	HQ	76	VAL	N-CA-C	-7.19	105.63	111.81
1	HR	76	VAL	N-CA-C	-7.19	105.63	111.81
3	YY	723	LEU	N-CA-C	-7.19	103.66	113.30
3	Yp	720	ALA	N-CA-C	7.19	121.45	111.74
1	Hh	76	VAL	N-CA-C	-7.19	105.63	111.81
3	Yn	723	LEU	N-CA-C	-7.19	103.67	113.30
1	Hs	76	VAL	N-CA-C	-7.19	105.63	111.81
1	HD	76	VAL	N-CA-C	-7.19	105.63	111.81
1	Hf	76	VAL	N-CA-C	-7.19	105.63	111.81
1	HU	76	VAL	N-CA-C	-7.19	105.63	111.81
1	HK	16	GLY	CA-C-O	-7.19	117.28	122.45
2	Pa	42	ILE	CA-C-O	-7.18	116.00	121.68
1	Hv	16	GLY	CA-C-O	-7.18	117.28	122.45
1	Mq	76	VAL	N-CA-C	-7.18	104.77	111.45
2	Pi	42	ILE	CA-C-O	-7.18	116.01	121.68
1	HC	76	VAL	N-CA-C	-7.18	105.64	111.81
2	PT	42	ILE	CA-C-O	-7.18	116.01	121.68
1	HY	16	GLY	CA-C-O	-7.18	117.28	122.45
2	PW	42	ILE	CA-C-O	-7.18	116.01	121.68
1	Md	10	GLY	CA-C-O	-7.18	115.34	120.94
1	Hn	16	GLY	CA-C-O	-7.18	117.28	122.45
1	H7	76	VAL	N-CA-C	-7.18	105.64	111.81
1	Hh	16	GLY	CA-C-O	-7.18	117.28	122.45
1	Ht	16	GLY	CA-C-O	-7.18	117.28	122.45
1	Hi	16	GLY	CA-C-O	-7.18	117.28	122.45
1	Hx	76	VAL	N-CA-C	-7.18	105.64	111.81
1	Hg	76	VAL	N-CA-C	-7.17	105.64	111.81
3	Ya	720	ALA	N-CA-C	7.17	121.43	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Hn	76	VAL	N-CA-C	-7.17	105.64	111.81
1	HN	16	GLY	CA-C-O	-7.17	117.29	122.45
1	HC	16	GLY	CA-C-O	-7.17	117.29	122.45
1	HR	16	GLY	CA-C-O	-7.17	117.29	122.45
2	PL	42	ILE	CA-C-O	-7.17	116.02	121.68
1	HA	16	GLY	CA-C-O	-7.17	117.29	122.45
1	LE	42	GLY	CA-C-O	-7.17	116.00	122.24
1	LT	42	GLY	CA-C-O	-7.17	116.00	122.24
1	Hk	16	GLY	CA-C-O	-7.17	117.29	122.45
2	Pp	42	ILE	CA-C-O	-7.17	116.02	121.68
1	HB	16	GLY	CA-C-O	-7.17	117.29	122.45
2	PA	42	ILE	CA-C-O	-7.17	116.02	121.68
2	PB	42	ILE	CA-C-O	-7.17	116.02	121.68
1	H3	16	GLY	CA-C-O	-7.17	117.29	122.45
1	HI	16	GLY	CA-C-O	-7.17	117.29	122.45
1	HN	76	VAL	N-CA-C	-7.17	105.65	111.81
1	Lg	42	GLY	CA-C-O	-7.17	116.00	122.24
1	Dn	37	GLY	N-CA-C	7.17	124.04	111.14
1	MU	10	GLY	CA-C-O	-7.17	115.35	120.94
2	PC	42	ILE	CA-C-O	-7.16	116.02	121.68
1	H9	16	GLY	CA-C-O	-7.16	117.29	122.45
1	HM	76	VAL	N-CA-C	-7.16	105.65	111.81
1	HO	16	GLY	CA-C-O	-7.16	117.29	122.45
1	Hv	76	VAL	N-CA-C	-7.16	105.65	111.81
1	Mv	76	VAL	N-CA-C	-7.16	104.79	111.45
1	LC	42	GLY	CA-C-O	-7.16	116.01	122.24
1	LR	42	GLY	CA-C-O	-7.16	116.01	122.24
1	H3	76	VAL	N-CA-C	-7.16	105.65	111.81
1	HG	16	GLY	CA-C-O	-7.16	117.30	122.45
1	HI	76	VAL	N-CA-C	-7.16	105.65	111.81
1	Hd	76	VAL	N-CA-C	-7.16	105.65	111.81
1	He	76	VAL	N-CA-C	-7.16	105.65	111.81
1	Hg	16	GLY	CA-C-O	-7.16	117.30	122.45
1	Lr	42	GLY	CA-C-O	-7.16	116.01	122.24
2	P5	42	ILE	CA-C-O	-7.16	116.03	121.68
2	P7	42	ILE	CA-C-O	-7.16	116.03	121.68
1	LF	42	GLY	CA-C-O	-7.16	116.02	122.24
1	HW	76	VAL	N-CA-C	-7.16	105.66	111.81
1	H4	16	GLY	CA-C-O	-7.15	117.30	122.45
1	H9	76	VAL	N-CA-C	-7.15	105.66	111.81
1	HJ	16	GLY	CA-C-O	-7.15	117.30	122.45
1	Hq	16	GLY	CA-C-O	-7.15	117.30	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	P6	42	ILE	CA-C-O	-7.15	116.03	121.68
1	Ha	16	GLY	CA-C-O	-7.15	117.30	122.45
2	Pv	42	ILE	CA-C-O	-7.15	116.03	121.68
2	PK	42	ILE	CA-C-O	-7.15	116.03	121.68
1	HL	16	GLY	CA-C-O	-7.15	117.31	122.45
1	Hf	16	GLY	CA-C-O	-7.14	117.31	122.45
1	Ms	10	GLY	CA-C-O	-7.14	115.37	120.94
2	P3	42	ILE	CA-C-O	-7.14	116.04	121.68
1	Hd	16	GLY	CA-C-O	-7.14	117.31	122.45
1	Lq	42	GLY	CA-C-O	-7.14	116.03	122.24
1	H8	76	VAL	N-CA-C	-7.14	105.67	111.81
2	Px	42	ILE	CA-C-O	-7.14	116.04	121.68
1	DF	37	GLY	N-CA-C	7.14	121.55	110.91
1	HX	16	GLY	CA-C-O	-7.14	117.31	122.45
1	Hm	16	GLY	CA-C-O	-7.14	117.31	122.45
2	PE	42	ILE	CA-C-O	-7.14	116.04	121.68
1	DI	95	ALA	N-CA-C	7.14	123.30	113.16
2	Pb	42	ILE	CA-C-O	-7.14	116.04	121.68
1	Hw	16	GLY	CA-C-O	-7.14	117.31	122.45
1	L0	42	GLY	CA-C-O	-7.13	116.03	122.24
2	PM	42	ILE	CA-C-O	-7.13	116.04	121.68
1	Kt	42	GLY	CA-C-O	-7.13	116.04	122.24
1	HD	16	GLY	CA-C-O	-7.13	117.32	122.45
1	H6	16	GLY	CA-C-O	-7.13	117.32	122.45
2	P8	42	ILE	CA-C-O	-7.13	116.05	121.68
1	HS	16	GLY	CA-C-O	-7.13	117.32	122.45
1	HX	76	VAL	N-CA-C	-7.13	105.68	111.81
2	PR	42	ILE	CA-C-O	-7.13	116.05	121.68
1	Lu	42	GLY	CA-C-O	-7.13	116.04	122.24
1	HO	76	VAL	N-CA-C	-7.12	105.68	111.81
2	PP	42	ILE	CA-C-O	-7.12	116.05	121.68
2	Pg	42	ILE	CA-C-O	-7.12	116.05	121.68
2	PX	42	ILE	CA-C-O	-7.12	116.06	121.68
1	L1	42	GLY	CA-C-O	-7.12	116.05	122.24
1	HP	16	GLY	CA-C-O	-7.12	117.33	122.45
1	LH	42	GLY	CA-C-O	-7.12	116.05	122.24
1	Ht	76	VAL	N-CA-C	-7.12	105.69	111.81
1	Hp	16	GLY	CA-C-O	-7.12	117.33	122.45
1	LM	42	GLY	CA-C-O	-7.12	116.05	122.24
1	LN	42	GLY	CA-C-O	-7.12	116.05	122.24
3	XX	650	GLY	N-CA-C	-7.12	102.21	112.17
1	HV	16	GLY	CA-C-O	-7.11	117.33	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Hs	16	GLY	CA-C-O	-7.11	117.33	122.45
1	L5	42	GLY	CA-C-O	-7.11	116.05	122.24
2	PZ	42	ILE	CA-C-O	-7.11	116.06	121.68
1	LZ	42	GLY	CA-C-O	-7.11	116.06	122.24
1	Lv	42	GLY	CA-C-O	-7.11	116.06	122.24
1	Lo	42	GLY	CA-C-O	-7.11	116.06	122.24
2	Pq	42	ILE	CA-C-O	-7.11	116.06	121.68
1	H1	16	GLY	CA-C-O	-7.11	117.33	122.45
1	Le	42	GLY	CA-C-O	-7.11	116.06	122.24
2	Pr	42	ILE	CA-C-O	-7.11	116.07	121.68
2	PI	42	ILE	CA-C-O	-7.10	116.07	121.68
1	LW	42	GLY	CA-C-O	-7.10	116.06	122.24
1	Lf	42	GLY	CA-C-O	-7.10	116.06	122.24
3	XW	693	THR	N-CA-C	-7.10	98.04	109.40
1	LU	42	GLY	CA-C-O	-7.10	116.06	122.24
2	Pl	42	ILE	CA-C-O	-7.10	116.07	121.68
1	Lj	42	GLY	CA-C-O	-7.10	116.06	122.24
1	L7	42	GLY	CA-C-O	-7.10	116.06	122.24
3	X2	693	THR	N-CA-C	-7.09	98.05	109.40
3	Xl	693	THR	N-CA-C	-7.09	98.05	109.40
3	Xo	721	THR	N-CA-C	7.09	118.66	111.07
1	LX	42	GLY	CA-C-O	-7.09	116.07	122.24
1	Lb	42	GLY	CA-C-O	-7.09	116.07	122.24
1	Hu	16	GLY	CA-C-O	-7.09	117.34	122.45
1	L3	42	GLY	CA-C-O	-7.09	116.07	122.24
1	LI	42	GLY	CA-C-O	-7.09	116.07	122.24
2	Pf	42	ILE	CA-C-O	-7.09	116.08	121.68
1	Hm	76	VAL	N-CA-C	-7.09	105.71	111.81
2	PQ	42	ILE	CA-C-O	-7.09	116.08	121.68
2	Pm	42	ILE	CA-C-O	-7.09	116.08	121.68
1	EF	54	THR	N-CA-C	7.08	119.66	111.02
1	L2	42	GLY	CA-C-O	-7.08	116.08	122.24
1	LO	42	GLY	CA-C-O	-7.08	116.08	122.24
1	Ll	42	GLY	CA-C-O	-7.08	116.08	122.24
1	Lh	42	GLY	CA-C-O	-7.08	116.08	122.24
3	XZ	721	THR	N-CA-C	7.08	118.65	111.07
1	DY	37	GLY	N-CA-C	7.08	123.88	111.14
1	Lt	42	GLY	CA-C-O	-7.07	116.09	122.24
1	Lw	42	GLY	CA-C-O	-7.07	116.09	122.24
1	LA	42	GLY	CA-C-O	-7.07	116.09	122.24
1	L8	42	GLY	CA-C-O	-7.07	116.09	122.24
3	XH	693	THR	N-CA-C	-7.07	98.09	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	X5	721	THR	N-CA-C	7.07	118.63	111.07
1	LK	42	GLY	CA-C-O	-7.07	116.09	122.24
2	Pc	42	ILE	CA-C-O	-7.06	116.10	121.68
1	L9	42	GLY	CA-C-O	-7.06	116.10	122.24
1	Lk	42	GLY	CA-C-O	-7.06	116.10	122.24
1	DD	37	GLY	N-CA-C	7.06	123.85	111.14
1	DS	37	GLY	N-CA-C	7.06	123.85	111.14
1	LS	42	GLY	CA-C-O	-7.06	116.10	122.24
1	LG	42	GLY	CA-C-O	-7.05	116.10	122.24
2	Pu	42	ILE	CA-C-O	-7.05	116.11	121.68
1	LP	42	GLY	CA-C-O	-7.05	116.11	122.24
1	L6	42	GLY	CA-C-O	-7.05	116.11	122.24
1	LL	42	GLY	CA-C-O	-7.05	116.11	122.24
1	Lp	42	GLY	CA-C-O	-7.05	116.11	122.24
1	LD	42	GLY	CA-C-O	-7.04	116.11	122.24
3	XK	721	THR	N-CA-C	7.04	118.61	111.07
2	PN	42	ILE	CA-C-O	-7.04	116.12	121.68
1	L4	42	GLY	CA-C-O	-7.04	116.11	122.24
1	LJ	42	GLY	CA-C-O	-7.04	116.11	122.24
1	LV	42	GLY	CA-C-O	-7.04	116.11	122.24
1	Ld	42	GLY	CA-C-O	-7.04	116.11	122.24
1	Ls	42	GLY	CA-C-O	-7.04	116.11	122.24
1	LB	42	GLY	CA-C-O	-7.03	116.12	122.24
1	LQ	42	GLY	CA-C-O	-7.03	116.12	122.24
1	La	42	GLY	CA-C-O	-7.02	116.14	122.24
3	Y9	720	ALA	N-CA-C	7.01	121.21	111.74
3	YO	720	ALA	N-CA-C	7.01	121.21	111.74
1	LY	42	GLY	CA-C-O	-7.00	116.15	122.24
1	Ln	42	GLY	CA-C-O	-6.98	116.16	122.24
3	Ys	720	ALA	N-CA-C	6.98	121.17	111.74
3	Yd	720	ALA	N-CA-C	6.98	121.16	111.74
1	Ap	45	TYR	CA-C-O	-6.97	112.78	120.38
1	DH	92	LEU	CA-C-N	-6.97	111.66	120.23
1	DH	92	LEU	C-N-CA	-6.97	111.66	120.23
1	AH	45	TYR	CA-C-O	-6.96	112.79	120.38
1	FF	74	GLY	N-CA-C	6.96	120.03	110.56
1	Ll	16	GLY	CA-C-O	-6.96	116.69	122.33
1	LM	16	GLY	CA-C-O	-6.96	116.69	122.33
1	AO	45	TYR	CA-C-O	-6.96	112.79	120.38
1	Lm	74	GLY	N-CA-C	6.95	119.81	110.43
1	Bm	42	GLY	CA-C-O	-6.95	116.46	121.88
1	Br	42	GLY	CA-C-O	-6.94	116.46	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B3	42	GLY	CA-C-O	-6.94	116.47	121.88
1	Ks	74	GLY	N-CA-C	6.94	122.03	112.52
1	A9	45	TYR	CA-C-O	-6.93	112.82	120.38
1	AB	45	TYR	CA-C-O	-6.93	112.83	120.38
1	AQ	45	TYR	CA-C-O	-6.93	112.83	120.38
1	AT	45	TYR	CA-C-O	-6.93	112.82	120.38
1	AG	45	TYR	CA-C-O	-6.93	112.83	120.38
3	Xw	616	ILE	N-CA-C	-6.93	100.01	109.37
1	AM	45	TYR	CA-C-O	-6.93	112.83	120.38
1	KN	74	GLY	N-CA-C	6.93	122.01	112.52
3	Xk	650	GLY	N-CA-C	-6.93	100.23	112.77
1	DH	42	GLY	N-CA-C	-6.93	102.47	112.17
1	A6	45	TYR	CA-C-O	-6.93	112.83	120.38
1	AW	45	TYR	CA-C-O	-6.93	112.83	120.38
1	Af	45	TYR	CA-C-O	-6.93	112.83	120.38
1	Aa	45	TYR	CA-C-O	-6.93	112.83	120.38
1	Aj	45	TYR	CA-C-O	-6.93	112.83	120.38
1	An	45	TYR	CA-C-O	-6.92	112.83	120.38
1	AL	45	TYR	CA-C-O	-6.92	112.83	120.38
1	AN	45	TYR	CA-C-O	-6.92	112.83	120.38
1	KV	74	GLY	N-CA-C	6.92	122.00	112.52
1	LY	16	GLY	CA-C-O	-6.92	116.72	122.33
1	Ad	45	TYR	CA-C-O	-6.92	112.83	120.38
1	A2	45	TYR	CA-C-O	-6.92	112.83	120.38
1	Ae	45	TYR	CA-C-O	-6.92	112.83	120.38
1	Kj	74	GLY	N-CA-C	6.92	122.00	112.52
1	LW	16	GLY	CA-C-O	-6.92	116.73	122.33
3	XG	650	GLY	N-CA-C	-6.92	100.25	112.77
3	XV	650	GLY	N-CA-C	-6.92	100.25	112.77
1	Kd	74	GLY	N-CA-C	6.92	121.99	112.52
1	Bv	42	GLY	CA-C-O	-6.92	116.49	121.88
1	BR	42	GLY	CA-C-O	-6.91	116.49	121.88
1	AJ	45	TYR	CA-C-O	-6.91	112.84	120.38
1	AD	45	TYR	CA-C-O	-6.91	112.85	120.38
3	XE	619	THR	CB-CA-C	6.91	120.68	109.90
1	B8	42	GLY	CA-C-O	-6.91	116.49	121.88
1	Ah	45	TYR	CA-C-O	-6.91	112.85	120.38
1	Bc	42	GLY	CA-C-O	-6.91	116.49	121.88
1	Ko	74	GLY	N-CA-C	6.91	121.99	112.52
1	LD	16	GLY	CA-C-O	-6.91	116.73	122.33
1	A1	45	TYR	CA-C-O	-6.91	112.85	120.38
1	AS	45	TYR	CA-C-O	-6.91	112.85	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	KZ	74	GLY	N-CA-C	6.91	121.99	112.52
1	AU	45	TYR	CA-C-O	-6.91	112.85	120.38
1	KD	74	GLY	N-CA-C	6.91	121.99	112.52
1	K5	74	GLY	N-CA-C	6.91	121.99	112.52
3	X1	650	GLY	N-CA-C	-6.91	100.27	112.77
1	K9	74	GLY	N-CA-C	6.91	121.98	112.52
1	KK	74	GLY	N-CA-C	6.91	121.99	112.52
3	Xi	619	THR	CB-CA-C	6.91	120.68	109.90
1	Ab	45	TYR	CA-C-O	-6.91	112.85	120.38
1	KI	74	GLY	N-CA-C	6.91	121.98	112.52
1	A4	45	TYR	CA-C-O	-6.91	112.85	120.38
1	AV	45	TYR	CA-C-O	-6.91	112.85	120.38
1	Kx	74	GLY	N-CA-C	6.91	121.98	112.52
1	Lu	16	GLY	CA-C-O	-6.91	116.74	122.33
1	Ak	45	TYR	CA-C-O	-6.91	112.85	120.38
1	A7	45	TYR	CA-C-O	-6.90	112.85	120.38
3	Xx	619	THR	CB-CA-C	6.90	120.67	109.90
1	A3	45	TYR	CA-C-O	-6.90	112.86	120.38
1	Ai	45	TYR	CA-C-O	-6.90	112.86	120.38
1	Kk	74	GLY	N-CA-C	6.90	121.97	112.52
1	AE	45	TYR	CA-C-O	-6.90	112.86	120.38
1	BN	42	GLY	CA-C-O	-6.90	116.50	121.88
1	Ax	45	TYR	CA-C-O	-6.90	112.86	120.38
1	A5	45	TYR	CA-C-O	-6.90	112.86	120.38
1	K0	74	GLY	N-CA-C	6.90	121.97	112.52
1	AX	45	TYR	CA-C-O	-6.90	112.86	120.38
1	BX	42	GLY	CA-C-O	-6.90	116.50	121.88
1	Aw	45	TYR	CA-C-O	-6.90	112.86	120.38
1	Bn	42	GLY	CA-C-O	-6.90	116.50	121.88
1	Aq	45	TYR	CA-C-O	-6.90	112.86	120.38
3	XT	619	THR	CB-CA-C	6.89	120.66	109.90
1	KO	74	GLY	N-CA-C	6.89	121.97	112.52
1	Kc	74	GLY	N-CA-C	6.89	121.96	112.52
1	A0	45	TYR	CA-C-O	-6.89	112.87	120.38
1	Al	45	TYR	CA-C-O	-6.89	112.87	120.38
1	Kp	74	GLY	N-CA-C	6.89	121.96	112.52
1	KP	74	GLY	N-CA-C	6.89	121.96	112.52
1	AF	45	TYR	CA-C-O	-6.89	112.87	120.38
1	K3	74	GLY	N-CA-C	6.89	121.96	112.52
1	Kr	74	GLY	N-CA-C	6.89	121.96	112.52
1	KE	74	GLY	N-CA-C	6.89	121.95	112.52
1	B7	42	GLY	CA-C-O	-6.89	116.51	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	BI	42	GLY	CA-C-O	-6.89	116.51	121.88
1	Ki	74	GLY	N-CA-C	6.89	121.95	112.52
1	AY	45	TYR	CA-C-O	-6.89	112.87	120.38
1	Bb	42	GLY	CA-C-O	-6.89	116.51	121.88
1	Bu	42	GLY	CA-C-O	-6.89	116.51	121.88
1	As	45	TYR	CA-C-O	-6.89	112.87	120.38
1	DD	30	ALA	N-CA-C	6.89	118.86	111.36
1	KA	74	GLY	N-CA-C	6.88	121.95	112.52
1	KT	74	GLY	N-CA-C	6.88	121.95	112.52
1	LS	16	GLY	CA-C-O	-6.88	116.75	122.33
1	Ao	45	TYR	CA-C-O	-6.88	112.88	120.38
1	KC	74	GLY	N-CA-C	6.88	121.95	112.52
1	L7	16	GLY	CA-C-O	-6.88	116.75	122.33
1	KR	74	GLY	N-CA-C	6.88	121.95	112.52
1	AZ	45	TYR	CA-C-O	-6.88	112.88	120.38
1	Lb	16	GLY	CA-C-O	-6.88	116.75	122.33
3	XN	633	GLY	N-CA-C	-6.88	102.53	112.17
1	KS	74	GLY	N-CA-C	6.88	121.95	112.52
1	Lf	16	GLY	CA-C-O	-6.88	116.76	122.33
1	K4	74	GLY	N-CA-C	6.88	121.95	112.52
1	K6	74	GLY	N-CA-C	6.88	121.95	112.52
1	Ka	74	GLY	N-CA-C	6.88	121.95	112.52
1	AK	45	TYR	CA-C-O	-6.88	112.88	120.38
1	Bf	42	GLY	CA-C-O	-6.88	116.52	121.88
1	Bw	42	GLY	CA-C-O	-6.88	116.51	121.88
1	Au	45	TYR	CA-C-O	-6.88	112.88	120.38
1	AA	45	TYR	CA-C-O	-6.87	112.89	120.38
1	A8	45	TYR	CA-C-O	-6.87	112.89	120.38
1	BJ	42	GLY	CA-C-O	-6.87	116.52	121.88
1	KJ	74	GLY	N-CA-C	6.87	121.94	112.52
1	Kh	74	GLY	N-CA-C	6.87	121.94	112.52
1	Bp	42	GLY	CA-C-O	-6.87	116.52	121.88
1	K8	74	GLY	N-CA-C	6.87	121.94	112.52
1	KF	74	GLY	N-CA-C	6.87	121.93	112.52
1	KU	74	GLY	N-CA-C	6.87	121.93	112.52
1	AI	45	TYR	CA-C-O	-6.87	112.89	120.38
1	Ag	45	TYR	CA-C-O	-6.87	112.89	120.38
1	Ke	74	GLY	N-CA-C	6.87	121.93	112.52
1	La	16	GLY	CA-C-O	-6.87	116.77	122.33
1	Av	45	TYR	CA-C-O	-6.87	112.89	120.38
1	Kv	74	GLY	N-CA-C	6.87	121.93	112.52
1	K1	74	GLY	N-CA-C	6.87	121.93	112.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	KY	74	GLY	N-CA-C	6.87	121.93	112.52
1	Kn	74	GLY	N-CA-C	6.87	121.93	112.52
1	Ls	16	GLY	CA-C-O	-6.87	116.77	122.33
1	BD	42	GLY	CA-C-O	-6.87	116.53	121.88
1	BS	42	GLY	CA-C-O	-6.87	116.53	121.88
1	Bl	42	GLY	CA-C-O	-6.87	116.52	121.88
1	BC	42	GLY	CA-C-O	-6.86	116.53	121.88
1	LB	16	GLY	CA-C-O	-6.86	116.77	122.33
1	LQ	16	GLY	CA-C-O	-6.86	116.77	122.33
1	KG	74	GLY	N-CA-C	6.86	121.92	112.52
2	Pa	54	GLY	N-CA-C	6.86	121.33	112.13
1	BM	42	GLY	CA-C-O	-6.86	116.53	121.88
1	AP	45	TYR	CA-C-O	-6.86	112.90	120.38
3	YS	707	ILE	N-CA-C	-6.86	105.84	112.29
1	Ln	16	GLY	CA-C-O	-6.86	116.77	122.33
2	Pp	54	GLY	N-CA-C	6.86	121.32	112.13
2	P6	54	GLY	N-CA-C	6.86	121.32	112.13
2	PL	54	GLY	N-CA-C	6.86	121.32	112.13
1	AC	45	TYR	CA-C-O	-6.86	112.91	120.38
1	Am	45	TYR	CA-C-O	-6.86	112.91	120.38
3	YP	719	LEU	N-CA-C	6.86	120.17	110.23
3	Yt	719	LEU	N-CA-C	6.86	120.17	110.23
1	L4	16	GLY	CA-C-O	-6.85	116.78	122.33
1	L2	16	GLY	CA-C-O	-6.85	116.78	122.33
1	Lh	16	GLY	CA-C-O	-6.85	116.78	122.33
1	Kq	74	GLY	N-CA-C	6.85	121.91	112.52
1	B0	42	GLY	CA-C-O	-6.85	116.54	121.88
1	BF	42	GLY	CA-C-O	-6.85	116.54	121.88
1	BL	42	GLY	CA-C-O	-6.85	116.54	121.88
1	KL	74	GLY	N-CA-C	6.85	121.91	112.52
1	Ld	16	GLY	CA-C-O	-6.85	116.78	122.33
1	At	45	TYR	CA-C-O	-6.85	112.91	120.38
1	Kb	74	GLY	N-CA-C	6.85	121.90	112.52
1	AR	45	TYR	CA-C-O	-6.85	112.92	120.38
1	BO	76	VAL	N-CA-C	-6.85	105.17	111.67
1	Kg	74	GLY	N-CA-C	6.85	121.90	112.52
1	Kw	74	GLY	N-CA-C	6.85	121.90	112.52
3	YA	719	LEU	N-CA-C	6.84	120.15	110.23
1	KQ	74	GLY	N-CA-C	6.84	121.90	112.52
1	BW	42	GLY	CA-C-O	-6.84	116.54	121.88
1	B4	42	GLY	CA-C-O	-6.84	116.54	121.88
1	KX	74	GLY	N-CA-C	6.84	121.89	112.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	BB	42	GLY	CA-C-O	-6.84	116.54	121.88
1	BQ	42	GLY	CA-C-O	-6.84	116.54	121.88
1	LJ	16	GLY	CA-C-O	-6.84	116.79	122.33
1	KM	74	GLY	N-CA-C	6.84	121.89	112.52
1	Bd	76	VAL	N-CA-C	-6.84	105.17	111.67
1	K2	74	GLY	N-CA-C	6.84	121.89	112.52
1	K7	74	GLY	N-CA-C	6.84	121.89	112.52
1	Bh	42	GLY	CA-C-O	-6.84	116.55	121.88
1	Ac	45	TYR	CA-C-O	-6.84	112.92	120.38
1	Lq	16	GLY	CA-C-O	-6.84	116.79	122.33
1	Bo	76	VAL	N-CA-C	-6.84	105.17	111.67
3	Xa	630	ASN	N-CA-C	-6.84	104.83	113.72
1	LE	16	GLY	CA-C-O	-6.84	116.79	122.33
1	LT	16	GLY	CA-C-O	-6.84	116.79	122.33
2	PZ	55	SER	N-CA-C	6.84	119.65	110.35
1	Bm	76	VAL	N-CA-C	-6.84	105.17	111.67
1	Kf	74	GLY	N-CA-C	6.83	121.88	112.52
1	KB	74	GLY	N-CA-C	6.83	121.88	112.52
2	P5	55	SER	N-CA-C	6.83	119.64	110.35
1	Ar	45	TYR	CA-C-O	-6.83	112.93	120.38
3	X6	630	ASN	N-CA-C	-6.83	104.84	113.72
3	XL	630	ASN	N-CA-C	-6.83	104.84	113.72
1	KW	74	GLY	N-CA-C	6.83	121.88	112.52
1	LZ	16	GLY	CA-C-O	-6.83	116.80	122.33
1	Kt	74	GLY	N-CA-C	6.83	121.88	112.52
1	Lo	16	GLY	CA-C-O	-6.83	116.80	122.33
1	KH	74	GLY	N-CA-C	6.83	121.87	112.52
1	L5	16	GLY	CA-C-O	-6.83	116.80	122.33
3	X6	723	LEU	N-CA-C	6.83	118.72	111.28
1	LK	16	GLY	CA-C-O	-6.83	116.80	122.33
1	B6	42	GLY	CA-C-O	-6.83	116.56	121.88
1	BY	42	GLY	CA-C-O	-6.83	116.56	121.88
1	Gi	76	VAL	N-CA-C	-6.82	105.19	111.67
3	Ye	719	LEU	N-CA-C	6.82	120.12	110.23
1	Ba	42	GLY	CA-C-O	-6.82	116.56	121.88
1	Km	74	GLY	N-CA-C	6.82	121.87	112.52
1	Bt	42	GLY	CA-C-O	-6.82	116.56	121.88
1	Lp	16	GLY	CA-C-O	-6.82	116.81	122.33
1	LP	16	GLY	CA-C-O	-6.82	116.81	122.33
1	BJ	76	VAL	N-CA-C	-6.82	105.19	111.67
1	D7	67	ALA	N-CA-C	6.82	118.71	111.28
1	B2	42	GLY	CA-C-O	-6.82	116.56	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B9	42	GLY	CA-C-O	-6.82	116.56	121.88
1	L9	16	GLY	CA-C-O	-6.82	116.81	122.33
1	GM	76	VAL	N-CA-C	-6.82	105.19	111.67
1	LO	16	GLY	CA-C-O	-6.82	116.81	122.33
1	B1	42	GLY	CA-C-O	-6.82	116.56	121.88
1	Bg	42	GLY	CA-C-O	-6.82	116.56	121.88
1	Lw	16	GLY	CA-C-O	-6.82	116.81	122.33
1	Bk	42	GLY	CA-C-O	-6.82	116.56	121.88
1	Bq	42	GLY	CA-C-O	-6.82	116.56	121.88
1	B9	76	VAL	N-CA-C	-6.81	105.20	111.67
1	GS	76	VAL	N-CA-C	-6.81	105.20	111.67
1	Gh	76	VAL	N-CA-C	-6.81	105.20	111.67
1	Lg	16	GLY	CA-C-O	-6.81	116.81	122.33
1	LC	16	GLY	CA-C-O	-6.81	116.81	122.33
1	Bc	76	VAL	N-CA-C	-6.81	105.20	111.67
1	LF	16	GLY	CA-C-O	-6.81	116.82	122.33
3	XL	723	LEU	N-CA-C	6.81	118.70	111.28
1	BU	42	GLY	CA-C-O	-6.81	116.57	121.88
1	Lv	16	GLY	CA-C-O	-6.81	116.81	122.33
2	Po	55	SER	N-CA-C	6.81	119.61	110.35
1	Bj	42	GLY	CA-C-O	-6.81	116.57	121.88
1	Gq	76	VAL	N-CA-C	-6.81	105.20	111.67
1	LG	16	GLY	CA-C-O	-6.81	116.82	122.33
1	Bs	76	VAL	N-CA-C	-6.81	105.20	111.67
1	Ku	74	GLY	N-CA-C	6.80	121.84	112.52
1	BP	42	GLY	CA-C-O	-6.80	116.57	121.88
2	Pj	68	PRO	N-CA-C	6.80	126.48	112.47
1	LH	16	GLY	CA-C-O	-6.80	116.82	122.33
1	B8	76	VAL	N-CA-C	-6.80	105.21	111.67
1	BN	76	VAL	N-CA-C	-6.80	105.21	111.67
1	BW	76	VAL	N-CA-C	-6.80	105.21	111.67
1	BA	42	GLY	CA-C-O	-6.80	116.58	121.88
2	P0	68	PRO	N-CA-C	6.80	126.47	112.47
2	PF	68	PRO	N-CA-C	6.80	126.47	112.47
1	BX	76	VAL	N-CA-C	-6.80	105.21	111.67
2	PK	55	SER	N-CA-C	6.79	119.59	110.35
1	Bi	76	VAL	N-CA-C	-6.79	105.22	111.67
1	BY	76	VAL	N-CA-C	-6.79	105.22	111.67
1	Bq	76	VAL	N-CA-C	-6.79	105.22	111.67
1	GE	76	VAL	N-CA-C	-6.79	105.22	111.67
1	G5	76	VAL	N-CA-C	-6.79	105.22	111.67
1	GT	76	VAL	N-CA-C	-6.79	105.22	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	PU	68	PRO	N-CA-C	6.79	126.47	112.47
1	Gx	76	VAL	N-CA-C	-6.79	105.22	111.67
3	YD	707	ILE	N-CA-C	-6.79	105.91	112.29
3	Yh	707	ILE	N-CA-C	-6.79	105.91	112.29
1	LA	16	GLY	CA-C-O	-6.79	116.83	122.33
1	Bd	42	GLY	CA-C-O	-6.79	116.58	121.88
1	Gk	76	VAL	N-CA-C	-6.79	105.22	111.67
1	Go	76	VAL	N-CA-C	-6.79	105.22	111.67
3	Xp	630	ASN	N-CA-C	-6.79	104.90	113.72
1	B4	76	VAL	N-CA-C	-6.79	105.22	111.67
3	Xp	723	LEU	N-CA-C	6.79	118.68	111.28
3	Xa	723	LEU	N-CA-C	6.79	118.68	111.28
1	B3	76	VAL	N-CA-C	-6.79	105.22	111.67
1	BG	42	GLY	CA-C-O	-6.79	116.59	121.88
1	BV	42	GLY	CA-C-O	-6.79	116.59	121.88
1	Gb	76	VAL	N-CA-C	-6.79	105.22	111.67
1	BD	76	VAL	N-CA-C	-6.78	105.23	111.67
1	BS	76	VAL	N-CA-C	-6.78	105.23	111.67
1	BG	76	VAL	N-CA-C	-6.78	105.23	111.67
1	Gr	76	VAL	N-CA-C	-6.78	105.23	111.67
1	L6	16	GLY	CA-C-O	-6.78	116.84	122.33
1	LL	16	GLY	CA-C-O	-6.78	116.84	122.33
1	B5	42	GLY	CA-C-O	-6.78	116.59	121.88
1	BT	42	GLY	CA-C-O	-6.78	116.59	121.88
1	GK	76	VAL	N-CA-C	-6.78	105.23	111.67
1	Bi	42	GLY	CA-C-O	-6.78	116.59	121.88
1	Li	16	GLY	CA-C-O	-6.78	116.84	122.33
1	Bn	76	VAL	N-CA-C	-6.78	105.23	111.67
1	Bo	42	GLY	CA-C-O	-6.78	116.59	121.88
1	GD	76	VAL	N-CA-C	-6.78	105.23	111.67
1	L1	16	GLY	CA-C-O	-6.77	116.84	122.33
1	Kl	74	GLY	N-CA-C	6.77	121.80	112.52
1	B2	76	VAL	N-CA-C	-6.77	105.24	111.67
1	G7	76	VAL	N-CA-C	-6.77	105.24	111.67
1	BH	76	VAL	N-CA-C	-6.77	105.24	111.67
1	BE	76	VAL	N-CA-C	-6.77	105.24	111.67
1	G1	76	VAL	N-CA-C	-6.77	105.24	111.67
1	BT	76	VAL	N-CA-C	-6.77	105.24	111.67
1	Bl	76	VAL	N-CA-C	-6.77	105.24	111.67
1	BH	42	GLY	CA-C-O	-6.77	116.60	121.88
1	Gc	76	VAL	N-CA-C	-6.77	105.24	111.67
3	Yw	707	ILE	N-CA-C	-6.77	105.93	112.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Gs	76	VAL	N-CA-C	-6.77	105.24	111.67
1	BC	76	VAL	N-CA-C	-6.77	105.24	111.67
1	BE	42	GLY	CA-C-O	-6.77	116.60	121.88
1	BO	42	GLY	CA-C-O	-6.77	116.60	121.88
1	Be	42	GLY	CA-C-O	-6.77	116.60	121.88
1	Bg	76	VAL	N-CA-C	-6.77	105.24	111.67
1	Bh	76	VAL	N-CA-C	-6.76	105.24	111.67
1	Bs	42	GLY	CA-C-O	-6.76	116.60	121.88
1	GZ	76	VAL	N-CA-C	-6.76	105.25	111.67
1	BB	76	VAL	N-CA-C	-6.76	105.25	111.67
1	Bf	76	VAL	N-CA-C	-6.76	105.25	111.67
1	Le	16	GLY	CA-C-O	-6.76	116.85	122.33
1	D7	43	GLY	N-CA-C	-6.76	104.67	115.08
1	BL	76	VAL	N-CA-C	-6.76	105.25	111.67
1	Bx	76	VAL	N-CA-C	-6.76	105.25	111.67
1	B1	76	VAL	N-CA-C	-6.76	105.25	111.67
1	BZ	76	VAL	N-CA-C	-6.76	105.25	111.67
1	Gd	76	VAL	N-CA-C	-6.76	105.25	111.67
1	Bu	76	VAL	N-CA-C	-6.76	105.25	111.67
1	Br	76	VAL	N-CA-C	-6.76	105.25	111.67
1	GJ	76	VAL	N-CA-C	-6.75	105.25	111.67
1	Gw	76	VAL	N-CA-C	-6.75	105.25	111.67
1	BM	76	VAL	N-CA-C	-6.75	105.25	111.67
1	Lj	16	GLY	CA-C-O	-6.75	116.86	122.33
1	B5	76	VAL	N-CA-C	-6.75	105.26	111.67
1	BK	42	GLY	CA-C-O	-6.75	116.61	121.88
1	Lk	16	GLY	CA-C-O	-6.75	116.86	122.33
1	BR	76	VAL	N-CA-C	-6.75	105.26	111.67
1	BV	76	VAL	N-CA-C	-6.75	105.26	111.67
1	LV	16	GLY	CA-C-O	-6.75	116.86	122.33
1	B7	76	VAL	N-CA-C	-6.75	105.26	111.67
1	L8	16	GLY	CA-C-O	-6.75	116.87	122.33
1	GR	76	VAL	N-CA-C	-6.75	105.26	111.67
1	BK	76	VAL	N-CA-C	-6.75	105.26	111.67
1	Bt	76	VAL	N-CA-C	-6.75	105.26	111.67
1	Gp	76	VAL	N-CA-C	-6.75	105.26	111.67
1	Lr	16	GLY	CA-C-O	-6.75	116.87	122.33
1	L3	16	GLY	CA-C-O	-6.74	116.87	122.33
1	LI	16	GLY	CA-C-O	-6.74	116.87	122.33
1	G3	76	VAL	N-CA-C	-6.74	105.27	111.67
1	L0	16	GLY	CA-C-O	-6.74	116.87	122.33
1	GI	76	VAL	N-CA-C	-6.74	105.27	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Lc	16	GLY	CA-C-O	-6.74	116.87	122.33
1	DU	54	THR	N-CA-C	6.74	119.62	111.40
1	GL	76	VAL	N-CA-C	-6.74	105.27	111.67
1	GN	76	VAL	N-CA-C	-6.74	105.27	111.67
1	GV	76	VAL	N-CA-C	-6.74	105.27	111.67
1	GC	76	VAL	N-CA-C	-6.74	105.27	111.67
1	LR	16	GLY	CA-C-O	-6.74	116.87	122.33
3	X1	647	GLN	N-CA-C	6.73	118.28	111.07
1	B0	76	VAL	N-CA-C	-6.73	105.27	111.67
1	BF	76	VAL	N-CA-C	-6.73	105.27	111.67
1	Lx	16	GLY	CA-C-O	-6.73	116.88	122.33
1	G4	76	VAL	N-CA-C	-6.73	105.28	111.67
1	BQ	76	VAL	N-CA-C	-6.73	105.27	111.67
1	Lt	16	GLY	CA-C-O	-6.73	116.88	122.33
1	HW	42	GLY	CA-C-O	-6.73	117.85	122.22
1	Bk	76	VAL	N-CA-C	-6.73	105.28	111.67
1	GA	76	VAL	N-CA-C	-6.73	105.28	111.67
1	Ga	76	VAL	N-CA-C	-6.73	105.28	111.67
1	Df	55	GLY	CA-C-O	6.73	128.26	121.00
1	GG	76	VAL	N-CA-C	-6.72	105.28	111.67
1	Ge	76	VAL	N-CA-C	-6.72	105.28	111.67
1	GY	76	VAL	N-CA-C	-6.72	105.28	111.67
1	BZ	42	GLY	CA-C-O	-6.72	116.64	121.88
3	Xk	647	GLN	N-CA-C	6.72	118.26	111.07
1	Ow	76	VAL	N-CA-C	-6.72	105.29	111.67
1	Bb	76	VAL	N-CA-C	-6.72	105.29	111.67
1	Bv	76	VAL	N-CA-C	-6.72	105.29	111.67
1	Bp	76	VAL	N-CA-C	-6.72	105.29	111.67
1	G6	76	VAL	N-CA-C	-6.72	105.29	111.67
1	G8	76	VAL	N-CA-C	-6.71	105.29	111.67
1	Gg	76	VAL	N-CA-C	-6.71	105.29	111.67
1	Gn	76	VAL	N-CA-C	-6.71	105.29	111.67
1	GX	76	VAL	N-CA-C	-6.71	105.30	111.67
1	Gm	76	VAL	N-CA-C	-6.71	105.30	111.67
1	B6	76	VAL	N-CA-C	-6.71	105.30	111.67
1	BP	76	VAL	N-CA-C	-6.71	105.30	111.67
1	BI	76	VAL	N-CA-C	-6.71	105.30	111.67
3	XG	647	GLN	N-CA-C	6.71	118.25	111.07
1	Lm	43	GLY	N-CA-C	-6.71	105.97	115.30
1	G9	76	VAL	N-CA-C	-6.71	105.30	111.67
1	OR	76	VAL	N-CA-C	-6.71	105.30	111.67
1	GO	76	VAL	N-CA-C	-6.71	105.30	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	XV	647	GLN	N-CA-C	6.71	118.25	111.07
1	Gv	76	VAL	N-CA-C	-6.71	105.30	111.67
1	LN	16	GLY	CA-C-O	-6.71	116.90	122.33
1	Bx	42	GLY	CA-C-O	-6.70	116.65	121.88
1	HY	42	GLY	CA-C-O	-6.70	117.86	122.22
1	BU	76	VAL	N-CA-C	-6.70	105.31	111.67
1	Hn	42	GLY	CA-C-O	-6.70	117.86	122.22
1	Oh	76	VAL	N-CA-C	-6.70	105.31	111.67
1	GP	76	VAL	N-CA-C	-6.69	105.32	111.67
1	FU	95	ALA	N-CA-C	-6.69	98.12	108.55
1	LU	16	GLY	CA-C-O	-6.69	116.91	122.33
1	Bw	76	VAL	N-CA-C	-6.69	105.32	111.67
1	Or	76	VAL	N-CA-C	-6.69	105.32	111.67
1	Be	76	VAL	N-CA-C	-6.68	105.32	111.67
1	On	76	VAL	N-CA-C	-6.68	105.33	111.67
1	OJ	76	VAL	N-CA-C	-6.68	105.33	111.67
1	Og	76	VAL	N-CA-C	-6.68	105.33	111.67
1	Ov	76	VAL	N-CA-C	-6.68	105.33	111.67
1	BA	76	VAL	N-CA-C	-6.67	105.33	111.67
1	Gt	76	VAL	N-CA-C	-6.67	105.33	111.67
1	Bj	76	VAL	N-CA-C	-6.67	105.33	111.67
1	JU	79	HIS	CB-CG-CD2	-6.67	122.53	131.20
1	Ba	76	VAL	N-CA-C	-6.67	105.33	111.67
1	Hl	42	GLY	CA-C-O	-6.67	117.89	122.22
1	LX	16	GLY	CA-C-O	-6.67	116.93	122.33
2	Pv	53	VAL	N-CA-C	6.67	118.66	109.46
1	O4	76	VAL	N-CA-C	-6.66	105.34	111.67
1	OL	76	VAL	N-CA-C	-6.66	105.34	111.67
1	OS	76	VAL	N-CA-C	-6.66	105.34	111.67
1	OK	76	VAL	N-CA-C	-6.66	105.34	111.67
1	Lm	67	ALA	N-CA-C	6.66	118.54	111.28
1	OC	76	VAL	N-CA-C	-6.66	105.34	111.67
1	Oi	76	VAL	N-CA-C	-6.66	105.34	111.67
1	Ox	76	VAL	N-CA-C	-6.66	105.34	111.67
1	Hw	42	GLY	CA-C-O	-6.66	117.89	122.22
3	Yp	719	LEU	N-CA-C	6.66	118.60	110.41
1	DH	94	LYS	N-CA-C	-6.66	101.43	110.68
3	Yg	808	GLY	CA-C-O	-6.65	117.66	122.45
1	OY	76	VAL	N-CA-C	-6.65	105.35	111.67
1	OE	76	VAL	N-CA-C	-6.65	105.35	111.67
1	O1	76	VAL	N-CA-C	-6.65	105.35	111.67
1	O3	76	VAL	N-CA-C	-6.65	105.35	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	OT	76	VAL	N-CA-C	-6.65	105.35	111.67
1	Hk	42	GLY	CA-C-O	-6.65	117.90	122.22
1	Om	76	VAL	N-CA-C	-6.65	105.35	111.67
1	HL	42	GLY	CA-C-O	-6.65	117.90	122.22
1	OF	76	VAL	N-CA-C	-6.65	105.35	111.67
1	Ou	76	VAL	N-CA-C	-6.65	105.35	111.67
1	O8	76	VAL	N-CA-C	-6.65	105.36	111.67
1	ON	76	VAL	N-CA-C	-6.65	105.36	111.67
1	Oc	76	VAL	N-CA-C	-6.65	105.36	111.67
1	HB	42	GLY	CA-C-O	-6.64	117.90	122.22
1	O9	76	VAL	N-CA-C	-6.64	105.36	111.67
1	JS	30	ALA	CA-C-O	-6.64	113.84	120.82
1	OO	76	VAL	N-CA-C	-6.64	105.36	111.67
1	Ju	30	ALA	CA-C-O	-6.64	113.84	120.82
1	OA	76	VAL	N-CA-C	-6.64	105.36	111.67
1	OP	76	VAL	N-CA-C	-6.64	105.36	111.67
1	OX	76	VAL	N-CA-C	-6.64	105.36	111.67
3	Y6	719	LEU	N-CA-C	6.64	118.58	110.41
3	YL	719	LEU	N-CA-C	6.64	118.58	110.41
1	Hb	42	GLY	CA-C-O	-6.64	117.91	122.22
2	PC	53	VAL	N-CA-C	6.64	118.62	109.46
1	H0	42	GLY	CA-C-O	-6.63	117.91	122.22
1	HQ	42	GLY	CA-C-O	-6.63	117.91	122.22
1	Hh	42	GLY	CA-C-O	-6.63	117.91	122.22
1	Oe	76	VAL	N-CA-C	-6.63	105.37	111.67
1	Od	76	VAL	N-CA-C	-6.63	105.37	111.67
1	Hu	42	GLY	CA-C-O	-6.63	117.91	122.22
1	Os	76	VAL	N-CA-C	-6.63	105.37	111.67
1	OB	76	VAL	N-CA-C	-6.63	105.37	111.67
3	Ya	719	LEU	N-CA-C	6.63	118.57	110.41
1	Ot	76	VAL	N-CA-C	-6.63	105.37	111.67
1	OI	76	VAL	N-CA-C	-6.63	105.37	111.67
3	YI	808	GLY	CA-C-O	-6.63	117.68	122.45
3	Ye	808	GLY	CA-C-O	-6.63	117.68	122.45
1	Oj	76	VAL	N-CA-C	-6.63	105.37	111.67
2	Pg	53	VAL	N-CA-C	6.63	118.61	109.46
2	PR	53	VAL	N-CA-C	6.63	118.60	109.46
1	Hf	42	GLY	CA-C-O	-6.62	117.91	122.22
1	OV	76	VAL	N-CA-C	-6.62	105.38	111.67
1	Ok	76	VAL	N-CA-C	-6.62	105.38	111.67
1	O6	76	VAL	N-CA-C	-6.62	105.38	111.67
1	HV	42	GLY	CA-C-O	-6.62	117.92	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	HU	42	GLY	CA-C-O	-6.62	117.91	122.22
3	Yv	808	GLY	CA-C-O	-6.62	117.68	122.45
1	Hj	42	GLY	CA-C-O	-6.62	117.91	122.22
1	H4	42	GLY	CA-C-O	-6.62	117.92	122.22
1	O5	76	VAL	N-CA-C	-6.62	105.38	111.67
1	Oo	76	VAL	N-CA-C	-6.62	105.38	111.67
1	Oq	76	VAL	N-CA-C	-6.62	105.38	111.67
1	O7	76	VAL	N-CA-C	-6.62	105.38	111.67
1	OM	76	VAL	N-CA-C	-6.62	105.38	111.67
1	Jc	30	ALA	CA-C-O	-6.62	113.87	120.82
1	Hq	42	GLY	CA-C-O	-6.62	117.92	122.22
3	Xm	630	ASN	N-CA-C	-6.62	104.83	113.17
1	Of	76	VAL	N-CA-C	-6.62	105.39	111.67
1	O2	76	VAL	N-CA-C	-6.61	105.39	111.67
1	O0	76	VAL	N-CA-C	-6.61	105.39	111.67
1	OQ	76	VAL	N-CA-C	-6.61	105.39	111.67
1	OU	76	VAL	N-CA-C	-6.61	105.39	111.67
1	OD	76	VAL	N-CA-C	-6.61	105.39	111.67
1	Jf	30	ALA	CA-C-O	-6.61	113.88	120.82
1	Oa	76	VAL	N-CA-C	-6.61	105.39	111.67
1	Op	76	VAL	N-CA-C	-6.61	105.39	111.67
1	H2	42	GLY	CA-C-O	-6.61	117.93	122.22
1	HH	42	GLY	CA-C-O	-6.61	117.93	122.22
1	HF	42	GLY	CA-C-O	-6.60	117.93	122.22
3	YX	808	GLY	CA-C-O	-6.60	117.69	122.45
1	Ku	76	VAL	N-CA-C	-6.60	105.40	111.67
3	Y5	808	GLY	CA-C-O	-6.60	117.70	122.45
1	J7	30	ALA	CA-C-O	-6.60	113.89	120.82
3	YK	808	GLY	CA-C-O	-6.60	117.70	122.45
3	XI	647	GLN	N-CA-C	6.60	119.32	111.33
1	H8	42	GLY	CA-C-O	-6.60	117.93	122.22
1	Hr	42	GLY	CA-C-O	-6.60	117.93	122.22
1	HD	42	GLY	CA-C-O	-6.60	117.93	122.22
1	JD	30	ALA	CA-C-O	-6.60	113.89	120.82
1	H7	42	GLY	CA-C-O	-6.60	117.93	122.22
1	Jh	30	ALA	CA-C-O	-6.60	113.89	120.82
1	Jb	30	ALA	CA-C-O	-6.60	113.89	120.82
3	Ym	808	GLY	CA-C-O	-6.60	117.70	122.45
1	Jq	30	ALA	CA-C-O	-6.60	113.89	120.82
3	Y0	808	GLY	CA-C-O	-6.60	117.70	122.45
3	YF	808	GLY	CA-C-O	-6.60	117.70	122.45
1	OW	76	VAL	N-CA-C	-6.60	105.40	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Jr	30	ALA	CA-C-O	-6.60	113.89	120.82
1	Aj	73	ASP	CB-CA-C	6.60	122.83	110.63
1	JL	30	ALA	CA-C-O	-6.59	113.90	120.82
3	Yi	808	GLY	CA-C-O	-6.59	117.70	122.45
3	Yk	808	GLY	CA-C-O	-6.59	117.70	122.45
3	YE	808	GLY	CA-C-O	-6.59	117.70	122.45
1	HK	42	GLY	CA-C-O	-6.59	117.94	122.22
1	Ob	76	VAL	N-CA-C	-6.59	105.41	111.67
1	H1	42	GLY	CA-C-O	-6.59	117.94	122.22
3	Yp	808	GLY	CA-C-O	-6.59	117.71	122.45
1	Jw	30	ALA	CA-C-O	-6.58	113.91	120.82
1	HC	42	GLY	CA-C-O	-6.58	117.94	122.22
1	HS	42	GLY	CA-C-O	-6.58	117.94	122.22
1	KG	76	VAL	N-CA-C	-6.58	105.42	111.67
1	JM	30	ALA	CA-C-O	-6.58	113.91	120.82
3	YU	808	GLY	CA-C-O	-6.58	117.71	122.45
1	Au	73	ASP	CB-CA-C	6.58	122.81	110.63
1	Ho	42	GLY	CA-C-O	-6.58	117.94	122.22
1	OZ	76	VAL	N-CA-C	-6.58	105.42	111.67
3	YC	808	GLY	CA-C-O	-6.58	117.71	122.45
3	YR	808	GLY	CA-C-O	-6.58	117.71	122.45
1	OH	76	VAL	N-CA-C	-6.58	105.42	111.67
1	HM	42	GLY	CA-C-O	-6.58	117.94	122.22
1	FF	36	VAL	N-CA-C	6.58	116.71	110.53
1	HZ	42	GLY	CA-C-O	-6.57	117.95	122.22
3	Yq	808	GLY	CA-C-O	-6.57	117.72	122.45
1	OG	76	VAL	N-CA-C	-6.57	105.43	111.67
3	Yb	808	GLY	CA-C-O	-6.57	117.72	122.45
1	AQ	73	ASP	CB-CA-C	6.57	122.78	110.63
1	HG	42	GLY	CA-C-O	-6.57	117.95	122.22
1	He	42	GLY	CA-C-O	-6.57	117.95	122.22
1	Kf	76	VAL	N-CA-C	-6.57	105.43	111.67
1	Dw	57	VAL	CA-C-N	-6.57	110.96	120.29
1	Dw	57	VAL	C-N-CA	-6.57	110.96	120.29
1	H6	42	GLY	CA-C-O	-6.57	117.95	122.22
3	Y7	808	GLY	CA-C-O	-6.57	117.72	122.45
1	AU	73	ASP	CB-CA-C	6.57	122.78	110.63
3	Yu	808	GLY	CA-C-O	-6.57	117.72	122.45
1	As	73	ASP	CB-CA-C	6.57	122.78	110.63
1	DB	43	GLY	N-CA-C	-6.57	105.85	115.30
1	JG	30	ALA	CA-C-O	-6.57	113.93	120.82
1	Ol	76	VAL	N-CA-C	-6.57	105.43	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Aq	73	ASP	CB-CA-C	6.57	122.78	110.63
1	JZ	30	ALA	CA-C-O	-6.56	113.93	120.82
3	Yc	808	GLY	CA-C-O	-6.56	117.72	122.45
1	HJ	42	GLY	CA-C-O	-6.56	117.95	122.22
1	DY	67	ALA	N-CA-C	6.56	118.43	111.28
1	Ax	73	ASP	CB-CA-C	6.56	122.77	110.63
1	Jn	30	ALA	CA-C-O	-6.56	113.93	120.82
1	H5	42	GLY	CA-C-O	-6.56	117.96	122.22
1	A7	73	ASP	CB-CA-C	6.56	122.77	110.63
1	Df	56	ALA	N-CA-CB	-6.56	100.50	110.01
1	JB	30	ALA	CA-C-O	-6.56	113.94	120.82
1	H9	42	GLY	CA-C-O	-6.56	117.96	122.22
1	HT	42	GLY	CA-C-O	-6.56	117.96	122.22
1	HO	42	GLY	CA-C-O	-6.56	117.96	122.22
3	YZ	808	GLY	CA-C-O	-6.56	117.73	122.45
1	J4	30	ALA	CA-C-O	-6.56	113.94	120.82
3	Y6	808	GLY	CA-C-O	-6.56	117.73	122.45
1	JJ	30	ALA	CA-C-O	-6.56	113.94	120.82
1	HN	42	GLY	CA-C-O	-6.56	117.96	122.22
2	PY	63	GLY	N-CA-C	6.56	122.63	114.37
1	Al	73	ASP	CB-CA-C	6.56	122.76	110.63
1	An	73	ASP	CB-CA-C	6.56	122.76	110.63
1	H3	42	GLY	CA-C-O	-6.55	117.96	122.22
2	P4	63	GLY	N-CA-C	6.55	122.63	114.37
1	KL	76	VAL	N-CA-C	-6.55	105.44	111.67
1	Af	73	ASP	CB-CA-C	6.55	122.75	110.63
1	JI	30	ALA	CA-C-O	-6.55	113.94	120.82
1	AB	73	ASP	CB-CA-C	6.55	122.75	110.63
3	YT	808	GLY	CA-C-O	-6.55	117.73	122.45
3	Ya	808	GLY	CA-C-O	-6.55	117.73	122.45
3	YA	808	GLY	CA-C-O	-6.55	117.73	122.45
3	YP	808	GLY	CA-C-O	-6.55	117.73	122.45
1	Ai	73	ASP	CB-CA-C	6.55	122.75	110.63
3	Y1	808	GLY	CA-C-O	-6.55	117.73	122.45
1	A0	73	ASP	CB-CA-C	6.55	122.74	110.63
1	J8	30	ALA	CA-C-O	-6.55	113.94	120.82
3	YG	808	GLY	CA-C-O	-6.55	117.73	122.45
1	AF	73	ASP	CB-CA-C	6.55	122.74	110.63
1	JN	30	ALA	CA-C-O	-6.55	113.94	120.82
1	KM	76	VAL	N-CA-C	-6.55	105.45	111.67
1	Ab	73	ASP	CB-CA-C	6.55	122.74	110.63
1	KQ	76	VAL	N-CA-C	-6.55	105.45	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AZ	73	ASP	CB-CA-C	6.55	122.74	110.63
3	YV	808	GLY	CA-C-O	-6.55	117.74	122.45
1	AW	73	ASP	CB-CA-C	6.54	122.74	110.63
1	Kb	76	VAL	N-CA-C	-6.54	105.45	111.67
1	JY	30	ALA	CA-C-O	-6.54	113.95	120.82
1	KO	76	VAL	N-CA-C	-6.54	105.45	111.67
1	Ad	73	ASP	CB-CA-C	6.54	122.74	110.63
1	Hc	42	GLY	CA-C-O	-6.54	117.97	122.22
3	Yr	808	GLY	CA-C-O	-6.54	117.74	122.45
1	AD	73	ASP	CB-CA-C	6.54	122.73	110.63
1	HE	42	GLY	CA-C-O	-6.54	117.97	122.22
1	A5	73	ASP	CB-CA-C	6.54	122.73	110.63
3	X1	723	LEU	N-CA-C	6.54	118.41	111.28
1	JQ	30	ALA	CA-C-O	-6.54	113.95	120.82
1	AK	73	ASP	CB-CA-C	6.54	122.73	110.63
3	XG	723	LEU	N-CA-C	6.54	118.41	111.28
1	Hv	42	GLY	CA-C-O	-6.54	117.97	122.22
1	Hx	42	GLY	CA-C-O	-6.54	117.97	122.22
1	Ao	73	ASP	CB-CA-C	6.54	122.73	110.63
1	Kq	76	VAL	N-CA-C	-6.54	105.46	111.67
1	A2	73	ASP	CB-CA-C	6.54	122.73	110.63
3	Y2	808	GLY	CA-C-O	-6.54	117.74	122.45
3	Y8	808	GLY	CA-C-O	-6.54	117.74	122.45
1	AH	73	ASP	CB-CA-C	6.54	122.73	110.63
1	Kg	76	VAL	N-CA-C	-6.54	105.46	111.67
3	YW	808	GLY	CA-C-O	-6.54	117.74	122.45
1	Kt	76	VAL	N-CA-C	-6.54	105.46	111.67
1	A6	73	ASP	CB-CA-C	6.54	122.72	110.63
1	AS	73	ASP	CB-CA-C	6.54	122.73	110.63
1	AT	73	ASP	CB-CA-C	6.54	122.72	110.63
1	AL	73	ASP	CB-CA-C	6.54	122.72	110.63
1	AL	83	ARG	CA-C-O	-6.54	113.46	121.11
3	YM	808	GLY	CA-C-O	-6.54	117.74	122.45
3	YN	808	GLY	CA-C-O	-6.54	117.74	122.45
1	AY	73	ASP	CB-CA-C	6.54	122.73	110.63
2	Pn	63	GLY	N-CA-C	6.54	122.61	114.37
1	Ar	73	ASP	CB-CA-C	6.54	122.73	110.63
1	Hs	42	GLY	CA-C-O	-6.54	117.97	122.22
1	AA	73	ASP	CB-CA-C	6.54	122.72	110.63
1	HA	42	GLY	CA-C-O	-6.54	117.97	122.22
1	KB	76	VAL	N-CA-C	-6.54	105.46	111.67
1	A4	73	ASP	CB-CA-C	6.54	122.72	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AP	73	ASP	CB-CA-C	6.54	122.72	110.63
1	HP	42	GLY	CA-C-O	-6.54	117.97	122.22
1	Hi	42	GLY	CA-C-O	-6.54	117.97	122.22
3	Yt	808	GLY	CA-C-O	-6.54	117.74	122.45
1	Ko	76	VAL	N-CA-C	-6.54	105.46	111.67
3	Yo	808	GLY	CA-C-O	-6.54	117.74	122.45
1	A9	73	ASP	CB-CA-C	6.53	122.72	110.63
1	Kv	76	VAL	N-CA-C	-6.53	105.46	111.67
1	J2	30	ALA	CA-C-O	-6.53	113.96	120.82
1	JH	30	ALA	CA-C-O	-6.53	113.96	120.82
1	HX	42	GLY	CA-C-O	-6.53	117.97	122.22
1	Av	73	ASP	CB-CA-C	6.53	122.71	110.63
3	Yx	808	GLY	CA-C-O	-6.53	117.75	122.45
1	Hm	42	GLY	CA-C-O	-6.53	117.97	122.22
1	K4	76	VAL	N-CA-C	-6.53	105.47	111.67
1	KJ	76	VAL	N-CA-C	-6.53	105.47	111.67
2	PJ	63	GLY	N-CA-C	6.53	122.60	114.37
1	KY	76	VAL	N-CA-C	-6.53	105.47	111.67
1	KA	76	VAL	N-CA-C	-6.53	105.47	111.67
1	A1	73	ASP	CB-CA-C	6.53	122.71	110.63
1	AG	73	ASP	CB-CA-C	6.53	122.71	110.63
1	AM	73	ASP	CB-CA-C	6.53	122.71	110.63
1	Ak	73	ASP	CB-CA-C	6.53	122.71	110.63
1	AR	73	ASP	CB-CA-C	6.53	122.70	110.63
3	YH	808	GLY	CA-C-O	-6.53	117.75	122.45
1	JV	30	ALA	CA-C-O	-6.53	113.97	120.82
1	JX	30	ALA	CA-C-O	-6.53	113.97	120.82
1	J3	30	ALA	CA-C-O	-6.53	113.97	120.82
1	Jm	30	ALA	CA-C-O	-6.53	113.97	120.82
1	KP	76	VAL	N-CA-C	-6.52	105.47	111.67
3	Yf	808	GLY	CA-C-O	-6.52	117.75	122.45
3	XV	723	LEU	N-CA-C	6.52	118.39	111.28
1	JF	30	ALA	CA-C-O	-6.52	113.97	120.82
1	AE	73	ASP	CB-CA-C	6.52	122.70	110.63
1	J1	30	ALA	CA-C-O	-6.52	113.97	120.82
1	AO	73	ASP	CB-CA-C	6.52	122.69	110.63
1	Ah	73	ASP	CB-CA-C	6.52	122.69	110.63
1	JW	30	ALA	CA-C-O	-6.52	113.97	120.82
1	GU	36	VAL	N-CA-C	6.52	117.27	110.62
1	At	73	ASP	CB-CA-C	6.52	122.69	110.63
3	Yj	808	GLY	CA-C-O	-6.52	117.75	122.45
1	AC	73	ASP	CB-CA-C	6.52	122.69	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J9	30	ALA	CA-C-O	-6.52	113.97	120.82
1	JR	30	ALA	CA-C-O	-6.52	113.97	120.82
1	AN	73	ASP	CB-CA-C	6.52	122.69	110.63
1	Kl	76	VAL	N-CA-C	-6.52	105.48	111.67
1	HR	42	GLY	CA-C-O	-6.52	117.98	122.22
3	YL	808	GLY	CA-C-O	-6.52	117.76	122.45
1	Ae	73	ASP	CB-CA-C	6.52	122.69	110.63
1	Ag	73	ASP	CB-CA-C	6.52	122.69	110.63
1	Jo	30	ALA	CA-C-O	-6.52	113.97	120.82
1	AJ	73	ASP	CB-CA-C	6.52	122.69	110.63
1	AV	73	ASP	CB-CA-C	6.52	122.69	110.63
1	HI	42	GLY	CA-C-O	-6.52	117.98	122.22
1	Jd	30	ALA	CA-C-O	-6.52	113.98	120.82
1	Jx	30	ALA	CA-C-O	-6.52	113.98	120.82
1	Jk	30	ALA	CA-C-O	-6.52	113.98	120.82
1	JC	30	ALA	CA-C-O	-6.52	113.98	120.82
1	K6	76	VAL	N-CA-C	-6.51	105.48	111.67
1	Jl	30	ALA	CA-C-O	-6.51	113.98	120.82
1	Js	30	ALA	CA-C-O	-6.51	113.98	120.82
1	J6	30	ALA	CA-C-O	-6.51	113.98	120.82
3	XY	719	LEU	N-CA-C	6.51	119.68	110.23
3	Xn	719	LEU	N-CA-C	6.51	119.68	110.23
1	G0	36	VAL	N-CA-C	6.51	117.26	110.62
1	GF	36	VAL	N-CA-C	6.51	117.26	110.62
1	KV	76	VAL	N-CA-C	-6.51	105.48	111.67
1	Kn	76	VAL	N-CA-C	-6.51	105.48	111.67
1	A3	73	ASP	CB-CA-C	6.51	122.67	110.63
1	K2	76	VAL	N-CA-C	-6.51	105.48	111.67
1	AI	73	ASP	CB-CA-C	6.51	122.67	110.63
1	KH	76	VAL	N-CA-C	-6.51	105.48	111.67
1	Kk	76	VAL	N-CA-C	-6.51	105.48	111.67
1	A8	73	ASP	CB-CA-C	6.51	122.67	110.63
1	K9	76	VAL	N-CA-C	-6.51	105.49	111.67
3	YQ	808	GLY	CA-C-O	-6.51	117.76	122.45
3	YJ	808	GLY	CA-C-O	-6.51	117.76	122.45
1	Aa	73	ASP	CB-CA-C	6.51	122.67	110.63
1	Ac	73	ASP	CB-CA-C	6.51	122.67	110.63
1	KC	76	VAL	N-CA-C	-6.51	105.49	111.67
1	K1	76	VAL	N-CA-C	-6.51	105.49	111.67
1	KR	76	VAL	N-CA-C	-6.51	105.49	111.67
1	Kh	76	VAL	N-CA-C	-6.51	105.49	111.67
1	Kc	76	VAL	N-CA-C	-6.51	105.49	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Am	73	ASP	CB-CA-C	6.51	122.67	110.63
1	K5	76	VAL	N-CA-C	-6.51	105.49	111.67
1	AX	73	ASP	CB-CA-C	6.51	122.67	110.63
3	Y3	808	GLY	CA-C-O	-6.51	117.77	122.45
1	Aw	73	ASP	CB-CA-C	6.50	122.66	110.63
1	JO	30	ALA	CA-C-O	-6.50	113.99	120.82
1	Ke	76	VAL	N-CA-C	-6.50	105.49	111.67
1	Kx	76	VAL	N-CA-C	-6.50	105.49	111.67
1	Ot	73	ASP	CB-CA-C	6.50	123.58	109.99
3	Xk	723	LEU	N-CA-C	6.50	118.37	111.28
3	X4	719	LEU	N-CA-C	6.50	119.66	110.23
3	XJ	719	LEU	N-CA-C	6.50	119.66	110.23
1	K8	76	VAL	N-CA-C	-6.50	105.49	111.67
1	KN	76	VAL	N-CA-C	-6.50	105.49	111.67
1	Hg	42	GLY	CA-C-O	-6.50	117.99	122.22
3	Yl	808	GLY	CA-C-O	-6.50	117.77	122.45
1	JA	30	ALA	CA-C-O	-6.50	114.00	120.82
1	JP	30	ALA	CA-C-O	-6.50	114.00	120.82
1	KK	76	VAL	N-CA-C	-6.50	105.50	111.67
1	Ji	30	ALA	CA-C-O	-6.50	114.00	120.82
1	KZ	76	VAL	N-CA-C	-6.50	105.50	111.67
1	Hd	42	GLY	CA-C-O	-6.50	118.00	122.22
1	Or	73	ASP	CB-CA-C	6.50	123.57	109.99
1	BL	96	PRO	N-CA-C	6.50	121.71	111.38
1	JU	30	ALA	CA-C-O	-6.50	114.00	120.82
1	J5	30	ALA	CA-C-O	-6.49	114.00	120.82
1	JK	30	ALA	CA-C-O	-6.49	114.00	120.82
1	KW	76	VAL	N-CA-C	-6.49	105.50	111.67
1	Ja	30	ALA	CA-C-O	-6.49	114.00	120.82
1	KE	76	VAL	N-CA-C	-6.49	105.50	111.67
1	K7	76	VAL	N-CA-C	-6.49	105.50	111.67
1	KT	76	VAL	N-CA-C	-6.49	105.50	111.67
1	Ha	42	GLY	CA-C-O	-6.49	118.00	122.22
1	Ht	42	GLY	CA-C-O	-6.49	118.00	122.22
1	Ap	73	ASP	CB-CA-C	6.49	122.64	110.63
1	JE	30	ALA	CA-C-O	-6.49	114.00	120.82
1	JT	30	ALA	CA-C-O	-6.49	114.00	120.82
1	Ok	73	ASP	CB-CA-C	6.49	123.56	109.99
1	Jj	30	ALA	CA-C-O	-6.49	114.01	120.82
1	Jp	30	ALA	CA-C-O	-6.49	114.01	120.82
1	K3	76	VAL	N-CA-C	-6.49	105.51	111.67
1	OG	73	ASP	CB-CA-C	6.49	123.55	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	OO	73	ASP	CB-CA-C	6.49	123.55	109.99
1	Oe	73	ASP	CB-CA-C	6.49	123.54	109.99
1	Kr	76	VAL	N-CA-C	-6.49	105.51	111.67
1	Km	76	VAL	N-CA-C	-6.49	105.51	111.67
1	K0	76	VAL	N-CA-C	-6.48	105.51	111.67
1	Jg	30	ALA	CA-C-O	-6.48	114.01	120.82
1	OZ	73	ASP	CB-CA-C	6.48	123.54	109.99
1	Oc	73	ASP	CB-CA-C	6.48	123.53	109.99
1	Kw	76	VAL	N-CA-C	-6.48	105.51	111.67
1	Ow	73	ASP	CB-CA-C	6.48	123.53	109.99
1	Oo	73	ASP	CB-CA-C	6.48	123.53	109.99
3	XI	632	ILE	N-CA-C	6.48	117.91	108.58
1	KD	76	VAL	N-CA-C	-6.48	105.52	111.67
1	J0	30	ALA	CA-C-O	-6.48	114.02	120.82
1	O9	73	ASP	CB-CA-C	6.48	123.53	109.99
1	KS	76	VAL	N-CA-C	-6.48	105.52	111.67
1	OV	73	ASP	CB-CA-C	6.48	123.53	109.99
1	KU	76	VAL	N-CA-C	-6.48	105.52	111.67
1	Gk	30	ALA	CA-C-O	-6.48	114.23	120.90
1	Om	73	ASP	CB-CA-C	6.48	123.53	109.99
1	OL	73	ASP	CB-CA-C	6.48	123.53	109.99
1	Ol	73	ASP	CB-CA-C	6.48	123.53	109.99
1	O6	73	ASP	CB-CA-C	6.47	123.52	109.99
1	OK	73	ASP	CB-CA-C	6.47	123.52	109.99
3	Yh	808	GLY	CA-C-O	-6.47	117.79	122.45
1	Ks	76	VAL	N-CA-C	-6.47	105.52	111.67
1	KF	76	VAL	N-CA-C	-6.47	105.52	111.67
1	Ki	76	VAL	N-CA-C	-6.47	105.52	111.67
1	Gt	30	ALA	CA-C-O	-6.47	114.23	120.90
1	Hp	42	GLY	CA-C-O	-6.47	118.01	122.22
1	OA	73	ASP	CB-CA-C	6.47	123.51	109.99
1	O1	73	ASP	CB-CA-C	6.47	123.51	109.99
1	OP	73	ASP	CB-CA-C	6.47	123.51	109.99
1	OR	73	ASP	CB-CA-C	6.47	123.51	109.99
1	OY	73	ASP	CB-CA-C	6.47	123.51	109.99
1	Ka	76	VAL	N-CA-C	-6.47	105.53	111.67
1	O4	73	ASP	CB-CA-C	6.47	123.51	109.99
1	OJ	73	ASP	CB-CA-C	6.47	123.51	109.99
1	OX	73	ASP	CB-CA-C	6.47	123.50	109.99
1	Ou	73	ASP	CB-CA-C	6.47	123.50	109.99
1	DB	74	GLY	N-CA-C	6.46	119.35	110.56
1	O5	73	ASP	CB-CA-C	6.46	123.50	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	OM	73	ASP	CB-CA-C	6.46	123.50	109.99
1	Je	30	ALA	CA-C-O	-6.46	114.03	120.82
1	Od	73	ASP	CB-CA-C	6.46	123.50	109.99
3	Yw	808	GLY	CA-C-O	-6.46	117.80	122.45
1	OB	73	ASP	CB-CA-C	6.46	123.50	109.99
1	O2	73	ASP	CB-CA-C	6.46	123.49	109.99
1	KX	76	VAL	N-CA-C	-6.46	105.53	111.67
1	Ov	73	ASP	CB-CA-C	6.46	123.50	109.99
1	Oq	73	ASP	CB-CA-C	6.46	123.49	109.99
1	KI	76	VAL	N-CA-C	-6.46	105.53	111.67
1	O3	73	ASP	CB-CA-C	6.46	123.49	109.99
3	Y4	808	GLY	CA-C-O	-6.46	117.80	122.45
1	OW	73	ASP	CB-CA-C	6.46	123.49	109.99
3	Yc	707	ILE	N-CA-C	-6.46	106.22	112.29
1	MF	42	GLY	N-CA-C	-6.46	105.81	111.95
1	Jt	30	ALA	CA-C-O	-6.46	114.04	120.82
1	O7	73	ASP	CB-CA-C	6.46	123.48	109.99
1	D4	76	VAL	N-CA-C	6.46	116.60	110.53
1	OC	73	ASP	CB-CA-C	6.45	123.48	109.99
1	OE	73	ASP	CB-CA-C	6.45	123.48	109.99
3	YB	808	GLY	CA-C-O	-6.45	117.80	122.45
1	Ge	30	ALA	CA-C-O	-6.45	114.25	120.90
1	Og	73	ASP	CB-CA-C	6.45	123.47	109.99
1	On	73	ASP	CB-CA-C	6.45	123.47	109.99
1	O8	73	ASP	CB-CA-C	6.45	123.47	109.99
1	Oi	73	ASP	CB-CA-C	6.45	123.47	109.99
1	Kd	76	VAL	N-CA-C	-6.45	105.54	111.67
1	Ob	73	ASP	CB-CA-C	6.45	123.47	109.99
1	Of	73	ASP	CB-CA-C	6.45	123.47	109.99
1	Gm	30	ALA	CA-C-O	-6.45	114.26	120.90
1	OD	73	ASP	CB-CA-C	6.45	123.46	109.99
3	XI	635	GLN	N-CA-C	6.45	118.31	111.28
1	OQ	73	ASP	CB-CA-C	6.45	123.46	109.99
1	OH	73	ASP	CB-CA-C	6.45	123.46	109.99
3	YY	808	GLY	CA-C-O	-6.45	117.81	122.45
1	Oj	73	ASP	CB-CA-C	6.45	123.46	109.99
1	ON	73	ASP	CB-CA-C	6.44	123.45	109.99
1	OU	73	ASP	CB-CA-C	6.44	123.45	109.99
1	Kj	76	VAL	N-CA-C	-6.44	105.55	111.67
1	Os	73	ASP	CB-CA-C	6.44	123.45	109.99
1	OI	73	ASP	CB-CA-C	6.44	123.46	109.99
1	O0	73	ASP	CB-CA-C	6.44	123.45	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Oa	73	ASP	CB-CA-C	6.44	123.45	109.99
1	Gj	36	VAL	N-CA-C	6.44	117.23	110.72
1	OT	73	ASP	CB-CA-C	6.44	123.45	109.99
1	OF	73	ASP	CB-CA-C	6.44	123.45	109.99
1	Op	73	ASP	CB-CA-C	6.44	123.44	109.99
3	Yr	707	ILE	N-CA-C	-6.44	106.24	112.29
1	G8	30	ALA	CA-C-O	-6.44	114.27	120.90
1	GN	30	ALA	CA-C-O	-6.44	114.27	120.90
1	Go	30	ALA	CA-C-O	-6.44	114.27	120.90
1	Kp	76	VAL	N-CA-C	-6.44	105.56	111.67
3	YD	808	GLY	CA-C-O	-6.43	117.82	122.45
1	OS	73	ASP	CB-CA-C	6.43	123.43	109.99
1	GL	30	ALA	CA-C-O	-6.43	114.27	120.90
1	Oh	73	ASP	CB-CA-C	6.43	123.43	109.99
3	Yn	808	GLY	CA-C-O	-6.43	117.82	122.45
3	YO	808	GLY	CA-C-O	-6.43	117.82	122.45
1	Li	78	ALA	CA-C-O	-6.43	113.43	120.24
1	Gv	30	ALA	CA-C-O	-6.43	114.28	120.90
1	Gr	30	ALA	CA-C-O	-6.43	114.28	120.90
1	Gg	30	ALA	CA-C-O	-6.42	114.28	120.90
1	DS	55	GLY	CA-C-O	6.42	131.75	120.57
1	Ox	73	ASP	CB-CA-C	6.42	123.41	109.99
1	GV	30	ALA	CA-C-O	-6.42	114.29	120.90
1	Fj	93	PRO	N-CA-C	6.42	122.45	113.53
1	G5	30	ALA	CA-C-O	-6.42	114.29	120.90
3	Y8	707	ILE	N-CA-C	-6.42	106.26	112.29
3	YN	707	ILE	N-CA-C	-6.42	106.26	112.29
3	Yd	808	GLY	CA-C-O	-6.42	117.83	122.45
1	Gi	30	ALA	CA-C-O	-6.41	114.30	120.90
1	Gx	30	ALA	CA-C-O	-6.41	114.30	120.90
1	Gc	30	ALA	CA-C-O	-6.40	114.30	120.90
1	GC	30	ALA	CA-C-O	-6.40	114.31	120.90
1	GT	30	ALA	CA-C-O	-6.40	114.31	120.90
3	YS	808	GLY	CA-C-O	-6.40	117.84	122.45
3	Xj	645	GLY	N-CA-C	6.40	119.37	112.33
1	G3	30	ALA	CA-C-O	-6.40	114.31	120.90
1	G6	30	ALA	CA-C-O	-6.40	114.31	120.90
3	Y9	808	GLY	CA-C-O	-6.40	117.84	122.45
1	GI	30	ALA	CA-C-O	-6.40	114.31	120.90
1	GR	30	ALA	CA-C-O	-6.40	114.31	120.90
1	GK	30	ALA	CA-C-O	-6.40	114.31	120.90
3	XV	719	LEU	N-CA-C	6.39	119.50	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ga	30	ALA	CA-C-O	-6.39	114.32	120.90
1	Gw	18	VAL	N-CA-C	-6.39	104.68	112.35
3	Xk	719	LEU	N-CA-C	6.39	119.50	110.23
1	GE	30	ALA	CA-C-O	-6.39	114.32	120.90
1	GX	30	ALA	CA-C-O	-6.39	114.32	120.90
1	G1	30	ALA	CA-C-O	-6.38	114.33	120.90
1	GG	30	ALA	CA-C-O	-6.38	114.33	120.90
1	GZ	30	ALA	CA-C-O	-6.38	114.33	120.90
1	Lq	78	ALA	CA-C-O	-6.38	113.24	120.32
1	Gq	30	ALA	CA-C-O	-6.38	114.33	120.90
1	GA	30	ALA	CA-C-O	-6.38	114.33	120.90
3	X1	719	LEU	N-CA-C	6.37	119.47	110.23
1	Go	18	VAL	N-CA-C	-6.37	104.70	112.35
1	Dh	61	VAL	N-CA-C	-6.37	104.12	110.62
1	EF	42	GLY	N-CA-C	-6.37	102.64	111.76
3	XB	649	THR	N-CA-C	6.37	118.22	111.28
1	Gh	18	VAL	N-CA-C	-6.37	104.71	112.35
3	XU	645	GLY	N-CA-C	6.37	119.33	112.33
1	GO	30	ALA	CA-C-O	-6.36	114.34	120.90
1	GY	18	VAL	N-CA-C	-6.36	104.71	112.35
1	Gb	30	ALA	CA-C-O	-6.36	114.35	120.90
3	XE	627	VAL	N-CA-C	6.36	117.78	109.58
1	G9	18	VAL	N-CA-C	-6.36	104.72	112.35
3	YX	720	ALA	N-CA-C	6.36	120.38	112.24
1	Lx	78	ALA	CA-C-O	-6.36	113.50	120.24
3	XG	719	LEU	N-CA-C	6.36	119.45	110.23
3	Ym	720	ALA	N-CA-C	6.36	120.37	112.24
1	Gr	18	VAL	N-CA-C	-6.36	104.72	112.35
3	X0	689	PHE	N-CA-C	-6.35	100.63	110.10
1	ET	45	TYR	CA-C-O	-6.35	113.50	120.36
3	XF	689	PHE	N-CA-C	-6.35	100.63	110.10
3	Xx	627	VAL	N-CA-C	6.35	117.78	109.58
1	GM	30	ALA	CA-C-O	-6.35	114.36	120.90
1	Ei	45	TYR	CA-C-O	-6.35	113.50	120.36
3	YI	720	ALA	N-CA-C	6.35	120.37	112.24
1	GO	18	VAL	N-CA-C	-6.35	104.73	112.35
3	Y3	720	ALA	N-CA-C	6.35	120.37	112.24
1	GG	18	VAL	N-CA-C	-6.35	104.73	112.35
3	XX	631	GLU	N-CA-C	6.35	118.20	111.28
1	G7	30	ALA	CA-C-O	-6.35	114.36	120.90
1	Gd	18	VAL	N-CA-C	-6.35	104.73	112.35
1	GK	18	VAL	N-CA-C	-6.34	104.74	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GZ	18	VAL	N-CA-C	-6.34	104.74	112.35
1	G4	18	VAL	N-CA-C	-6.34	104.74	112.35
1	G9	30	ALA	CA-C-O	-6.34	114.37	120.90
1	GJ	18	VAL	N-CA-C	-6.34	104.74	112.35
3	X0	645	GLY	N-CA-C	6.34	119.31	112.33
3	XQ	649	THR	N-CA-C	6.34	118.19	111.28
3	Xi	627	VAL	N-CA-C	6.34	117.76	109.58
3	XU	689	PHE	N-CA-C	-6.34	100.65	110.10
1	Jv	42	GLY	N-CA-C	-6.34	105.57	112.04
1	Eo	45	TYR	CA-C-O	-6.34	113.51	120.36
1	Gs	18	VAL	N-CA-C	-6.34	104.74	112.35
1	GN	18	VAL	N-CA-C	-6.34	104.75	112.35
3	Ys	808	GLY	CA-C-O	-6.34	117.89	122.45
1	Ga	18	VAL	N-CA-C	-6.33	104.75	112.35
1	GD	30	ALA	CA-C-O	-6.33	114.38	120.90
3	XT	627	VAL	N-CA-C	6.33	117.75	109.58
1	Eg	45	TYR	CA-C-O	-6.33	113.52	120.36
1	GV	18	VAL	N-CA-C	-6.33	104.75	112.35
1	EO	45	TYR	CA-C-O	-6.33	113.52	120.36
1	Gg	18	VAL	N-CA-C	-6.33	104.75	112.35
1	Gp	30	ALA	CA-C-O	-6.33	114.38	120.90
1	G6	18	VAL	N-CA-C	-6.33	104.75	112.35
1	GP	30	ALA	CA-C-O	-6.33	114.38	120.90
1	GX	18	VAL	N-CA-C	-6.33	104.75	112.35
3	XW	624	SER	N-CA-C	-6.33	99.08	109.40
1	Gp	18	VAL	N-CA-C	-6.33	104.75	112.35
1	Gd	30	ALA	CA-C-O	-6.33	114.38	120.90
1	Bu	24	ALA	CA-C-O	-6.33	114.13	120.90
1	Gn	18	VAL	N-CA-C	-6.33	104.76	112.35
1	Gc	18	VAL	N-CA-C	-6.33	104.76	112.35
1	G1	18	VAL	N-CA-C	-6.32	104.76	112.35
1	G3	18	VAL	N-CA-C	-6.32	104.76	112.35
1	G8	18	VAL	N-CA-C	-6.32	104.76	112.35
1	GE	18	VAL	N-CA-C	-6.32	104.76	112.35
1	Dt	53	GLU	CA-C-O	-6.32	114.67	121.94
1	GD	18	VAL	N-CA-C	-6.32	104.77	112.35
1	GS	18	VAL	N-CA-C	-6.32	104.77	112.35
1	EK	45	TYR	CA-C-O	-6.32	113.53	120.36
1	GM	18	VAL	N-CA-C	-6.32	104.76	112.35
1	Bw	24	ALA	CA-C-O	-6.32	114.14	120.90
1	Ev	45	TYR	CA-C-O	-6.32	113.53	120.36
1	Ex	45	TYR	CA-C-O	-6.32	113.53	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Gx	18	VAL	N-CA-C	-6.32	104.77	112.35
3	Xj	689	PHE	N-CA-C	-6.32	100.68	110.10
1	Gm	18	VAL	N-CA-C	-6.32	104.77	112.35
1	Gs	30	ALA	CA-C-O	-6.32	114.39	120.90
1	C9	45	TYR	CA-C-O	-6.32	113.49	120.69
3	XF	645	GLY	N-CA-C	6.32	119.28	112.33
1	EZ	45	TYR	CA-C-O	-6.32	113.54	120.36
1	Gk	18	VAL	N-CA-C	-6.32	104.77	112.35
1	G5	18	VAL	N-CA-C	-6.32	104.77	112.35
1	Gi	18	VAL	N-CA-C	-6.32	104.77	112.35
1	Eb	45	TYR	CA-C-O	-6.31	113.54	120.36
1	DS	58	ASN	CA-C-N	-6.31	111.82	120.28
1	DS	58	ASN	C-N-CA	-6.31	111.82	120.28
1	GA	18	VAL	N-CA-C	-6.31	104.78	112.35
3	X2	624	SER	N-CA-C	-6.31	99.11	109.40
1	Gw	30	ALA	CA-C-O	-6.31	114.40	120.90
3	Xr	719	LEU	N-CA-C	6.31	118.17	110.41
1	EE	45	TYR	CA-C-O	-6.31	113.55	120.36
1	GI	18	VAL	N-CA-C	-6.31	104.78	112.35
1	Et	45	TYR	CA-C-O	-6.30	113.55	120.36
3	Xl	624	SER	N-CA-C	-6.30	99.12	109.40
1	Be	24	ALA	CA-C-O	-6.30	114.16	120.90
1	Bt	24	ALA	CA-C-O	-6.30	114.16	120.90
1	GC	18	VAL	N-CA-C	-6.30	104.79	112.35
1	E5	45	TYR	CA-C-O	-6.30	113.56	120.36
1	ER	45	TYR	CA-C-O	-6.30	113.56	120.36
1	GL	18	VAL	N-CA-C	-6.30	104.79	112.35
1	Gb	18	VAL	N-CA-C	-6.30	104.79	112.35
1	Bm	24	ALA	CA-C-O	-6.30	114.16	120.90
1	Gq	18	VAL	N-CA-C	-6.30	104.79	112.35
3	Xc	719	LEU	N-CA-C	6.30	118.16	110.41
1	BN	24	ALA	CA-C-O	-6.30	114.16	120.90
1	Gh	30	ALA	CA-C-O	-6.30	114.41	120.90
1	G4	30	ALA	CA-C-O	-6.30	114.41	120.90
1	GJ	30	ALA	CA-C-O	-6.30	114.41	120.90
1	Gn	30	ALA	CA-C-O	-6.30	114.42	120.90
3	XM	630	ASN	N-CA-C	-6.30	105.64	113.38
1	Cd	45	TYR	CA-C-O	-6.29	113.51	120.69
1	Bn	24	ALA	CA-C-O	-6.29	114.16	120.90
1	Cs	45	TYR	CA-C-O	-6.29	113.51	120.69
1	BC	24	ALA	CA-C-O	-6.29	114.17	120.90
1	E4	45	TYR	CA-C-O	-6.29	113.56	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GT	18	VAL	N-CA-C	-6.29	104.80	112.35
3	XH	624	SER	N-CA-C	-6.29	99.14	109.40
1	Lb	78	ALA	CA-C-O	-6.29	113.33	120.32
1	Bv	24	ALA	CA-C-O	-6.29	114.17	120.90
1	Gt	18	VAL	N-CA-C	-6.29	104.80	112.35
1	Ln	78	ALA	CA-C-O	-6.29	113.33	120.32
1	Eq	45	TYR	CA-C-O	-6.29	113.56	120.36
1	D4	37	GLY	N-CA-C	6.29	122.47	111.14
3	Xb	725	THR	N-CA-C	-6.29	99.56	109.50
3	Xq	725	THR	N-CA-C	-6.29	99.56	109.50
1	De	53	GLU	CA-C-O	-6.29	114.71	121.94
1	Gv	18	VAL	N-CA-C	-6.29	104.80	112.35
1	ED	45	TYR	CA-C-O	-6.29	113.57	120.36
1	ES	45	TYR	CA-C-O	-6.29	113.57	120.36
1	Dr	53	GLU	CA-C-O	-6.29	114.71	121.94
1	EC	45	TYR	CA-C-O	-6.29	113.57	120.36
1	GS	30	ALA	CA-C-O	-6.29	114.42	120.90
3	Xu	649	THR	N-CA-C	6.29	118.21	111.36
3	XM	725	THR	N-CA-C	-6.29	99.57	109.50
1	E9	45	TYR	CA-C-O	-6.29	113.57	120.36
1	GP	18	VAL	N-CA-C	-6.29	104.81	112.35
1	AO	83	ARG	CA-C-O	-6.29	113.34	120.32
1	Ea	45	TYR	CA-C-O	-6.29	113.57	120.36
1	C8	45	TYR	CA-C-O	-6.28	113.53	120.69
1	G7	18	VAL	N-CA-C	-6.28	104.81	112.35
1	BX	24	ALA	CA-C-O	-6.28	114.18	120.90
1	EV	45	TYR	CA-C-O	-6.28	113.57	120.36
1	Dc	53	GLU	CA-C-O	-6.28	114.71	121.94
1	D6	53	GLU	CA-C-O	-6.28	114.78	121.88
3	X7	725	THR	N-CA-C	-6.28	99.57	109.50
1	DA	53	GLU	CA-C-O	-6.28	114.72	121.94
1	EB	45	TYR	CA-C-O	-6.28	113.58	120.36
1	EJ	45	TYR	CA-C-O	-6.28	113.58	120.36
3	Xf	649	THR	N-CA-C	6.28	118.20	111.36
1	B3	24	ALA	CA-C-O	-6.28	114.18	120.90
1	BL	24	ALA	CA-C-O	-6.28	114.18	120.90
1	Bh	24	ALA	CA-C-O	-6.28	114.18	120.90
1	EU	45	TYR	CA-C-O	-6.28	113.58	120.36
1	E0	45	TYR	CA-C-O	-6.28	113.58	120.36
1	EX	45	TYR	CA-C-O	-6.28	113.58	120.36
1	B6	24	ALA	CA-C-O	-6.28	114.19	120.90
1	Bg	24	ALA	CA-C-O	-6.28	114.18	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	LY	78	ALA	CA-C-O	-6.28	113.35	120.32
1	DJ	75	LEU	N-CA-C	6.28	119.17	109.07
1	E1	45	TYR	CA-C-O	-6.27	113.58	120.36
1	CJ	45	TYR	CA-C-O	-6.27	113.54	120.69
1	Ge	18	VAL	N-CA-C	-6.27	104.82	112.35
1	Ab	83	ARG	CA-C-O	-6.27	113.36	120.32
1	Ed	45	TYR	CA-C-O	-6.27	113.58	120.36
1	Es	45	TYR	CA-C-O	-6.27	113.58	120.36
1	BB	24	ALA	CA-C-O	-6.27	114.19	120.90
1	E7	45	TYR	CA-C-O	-6.27	113.59	120.36
1	BQ	24	ALA	CA-C-O	-6.27	114.19	120.90
3	XQ	630	ASN	N-CA-C	-6.27	105.38	113.16
1	BI	24	ALA	CA-C-O	-6.27	114.19	120.90
1	EM	45	TYR	CA-C-O	-6.27	113.59	120.36
1	BA	24	ALA	CA-C-O	-6.27	114.19	120.90
1	L7	78	ALA	CA-C-O	-6.27	113.36	120.32
1	BP	24	ALA	CA-C-O	-6.27	114.19	120.90
1	Ee	45	TYR	CA-C-O	-6.27	113.59	120.36
1	Aw	83	ARG	CA-C-O	-6.27	113.36	120.32
1	EI	45	TYR	CA-C-O	-6.27	113.59	120.36
1	LM	78	ALA	CA-C-O	-6.27	113.36	120.32
1	E6	45	TYR	CA-C-O	-6.27	113.59	120.36
1	EP	45	TYR	CA-C-O	-6.27	113.59	120.36
1	BY	24	ALA	CA-C-O	-6.27	114.19	120.90
1	GY	30	ALA	CA-C-O	-6.27	114.44	120.90
1	Ew	45	TYR	CA-C-O	-6.27	113.59	120.36
1	Bs	24	ALA	CA-C-O	-6.27	114.19	120.90
1	B5	24	ALA	CA-C-O	-6.26	114.20	120.90
1	Bd	24	ALA	CA-C-O	-6.26	114.20	120.90
1	Ep	45	TYR	CA-C-O	-6.26	113.60	120.36
1	E3	45	TYR	CA-C-O	-6.26	113.60	120.36
1	B1	24	ALA	CA-C-O	-6.26	114.20	120.90
1	BG	24	ALA	CA-C-O	-6.26	114.20	120.90
1	EH	45	TYR	CA-C-O	-6.26	113.60	120.36
1	CM	45	TYR	CA-C-O	-6.26	113.55	120.69
1	EW	45	TYR	CA-C-O	-6.26	113.60	120.36
1	Lw	78	ALA	CA-C-O	-6.26	113.37	120.32
3	Xu	630	ASN	N-CA-C	-6.26	105.40	113.16
1	Ej	45	TYR	CA-C-O	-6.26	113.60	120.36
3	XN	719	LEU	N-CA-C	6.26	118.11	110.41
1	CN	45	TYR	CA-C-O	-6.26	113.55	120.69
1	Bi	24	ALA	CA-C-O	-6.26	114.20	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CX	45	TYR	CA-C-O	-6.26	113.55	120.69
1	Da	53	GLU	CA-C-O	-6.26	114.74	121.94
1	Bx	24	ALA	CA-C-O	-6.26	114.20	120.90
1	DP	53	GLU	CA-C-O	-6.26	114.74	121.94
1	An	83	ARG	CA-C-O	-6.26	113.37	120.32
1	B2	24	ALA	CA-C-O	-6.26	114.21	120.90
1	B4	24	ALA	CA-C-O	-6.26	114.20	120.90
1	C2	45	TYR	CA-C-O	-6.26	113.56	120.69
1	B8	24	ALA	CA-C-O	-6.26	114.21	120.90
1	BH	24	ALA	CA-C-O	-6.26	114.21	120.90
1	BJ	24	ALA	CA-C-O	-6.26	114.20	120.90
1	CH	45	TYR	CA-C-O	-6.26	113.56	120.69
1	At	83	ARG	CA-C-O	-6.26	113.38	120.32
1	Bl	24	ALA	CA-C-O	-6.26	114.21	120.90
3	X8	719	LEU	N-CA-C	6.26	118.11	110.41
1	L2	78	ALA	CA-C-O	-6.25	113.38	120.32
1	Dp	53	GLU	CA-C-O	-6.25	114.75	121.94
1	GR	18	VAL	N-CA-C	-6.25	104.85	112.35
1	DL	53	GLU	CA-C-O	-6.25	114.75	121.94
1	BW	24	ALA	CA-C-O	-6.25	114.21	120.90
1	BZ	24	ALA	CA-C-O	-6.25	114.21	120.90
1	EY	45	TYR	CA-C-O	-6.25	113.61	120.36
1	En	45	TYR	CA-C-O	-6.25	113.61	120.36
1	Ls	78	ALA	CA-C-O	-6.25	113.38	120.32
1	BE	24	ALA	CA-C-O	-6.25	114.21	120.90
1	A7	83	ARG	CA-C-O	-6.25	113.38	120.32
1	D8	53	GLU	CA-C-O	-6.25	114.75	121.94
1	Bf	24	ALA	CA-C-O	-6.25	114.21	120.90
1	EQ	45	TYR	CA-C-O	-6.25	113.61	120.36
1	Cb	45	TYR	CA-C-O	-6.25	113.56	120.69
1	Ek	45	TYR	CA-C-O	-6.25	113.61	120.36
1	AQ	83	ARG	CA-C-O	-6.25	113.38	120.32
1	BR	24	ALA	CA-C-O	-6.25	114.22	120.90
1	Ef	45	TYR	CA-C-O	-6.25	113.61	120.36
1	Eu	45	TYR	CA-C-O	-6.25	113.61	120.36
1	A9	83	ARG	CA-C-O	-6.25	113.39	120.32
1	C7	45	TYR	CA-C-O	-6.25	113.57	120.69
1	CO	45	TYR	CA-C-O	-6.25	113.57	120.69
1	Ad	83	ARG	CA-C-O	-6.25	113.39	120.32
1	Aq	83	ARG	CA-C-O	-6.25	113.39	120.32
1	As	83	ARG	CA-C-O	-6.25	113.39	120.32
1	Cp	45	TYR	CA-C-O	-6.25	113.57	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	DF	75	LEU	N-CA-C	6.25	118.77	109.59
1	Cc	45	TYR	CA-C-O	-6.25	113.57	120.69
1	EA	45	TYR	CA-C-O	-6.24	113.62	120.36
1	C4	45	TYR	CA-C-O	-6.24	113.57	120.69
1	CR	45	TYR	CA-C-O	-6.24	113.57	120.69
1	Eh	45	TYR	CA-C-O	-6.24	113.62	120.36
1	Lh	78	ALA	CA-C-O	-6.24	113.39	120.32
1	E8	45	TYR	CA-C-O	-6.24	113.62	120.36
1	EN	45	TYR	CA-C-O	-6.24	113.62	120.36
1	Ce	45	TYR	CA-C-O	-6.24	113.57	120.69
1	Er	45	TYR	CA-C-O	-6.24	113.62	120.36
1	EG	45	TYR	CA-C-O	-6.24	113.62	120.36
1	AF	83	ARG	CA-C-O	-6.24	113.39	120.32
1	LD	78	ALA	CA-C-O	-6.24	113.39	120.32
3	XB	630	ASN	N-CA-C	-6.24	105.42	113.16
1	L4	78	ALA	CA-C-O	-6.24	113.39	120.32
1	DV	53	GLU	CA-C-O	-6.24	114.77	121.94
1	Ld	78	ALA	CA-C-O	-6.24	113.40	120.32
1	Lk	78	ALA	CA-C-O	-6.24	113.40	120.32
1	Cx	45	TYR	CA-C-O	-6.24	113.58	120.69
1	Cl	45	TYR	CA-C-O	-6.24	113.58	120.69
1	Cq	45	TYR	CA-C-O	-6.24	113.58	120.69
1	LA	78	ALA	CA-C-O	-6.23	113.40	120.32
1	Cr	45	TYR	CA-C-O	-6.23	113.58	120.69
1	BD	24	ALA	CA-C-O	-6.23	114.23	120.90
1	B9	24	ALA	CA-C-O	-6.23	114.23	120.90
1	BS	24	ALA	CA-C-O	-6.23	114.23	120.90
1	BT	24	ALA	CA-C-O	-6.23	114.23	120.90
1	CW	45	TYR	CA-C-O	-6.23	113.58	120.69
1	Ba	24	ALA	CA-C-O	-6.23	114.23	120.90
1	CD	45	TYR	CA-C-O	-6.23	113.59	120.69
1	C3	45	TYR	CA-C-O	-6.23	113.59	120.69
1	E2	45	TYR	CA-C-O	-6.23	113.63	120.36
1	B7	24	ALA	CA-C-O	-6.23	114.23	120.90
1	L9	78	ALA	CA-C-O	-6.23	113.40	120.32
1	BM	24	ALA	CA-C-O	-6.23	114.23	120.90
1	CU	45	TYR	CA-C-O	-6.23	113.59	120.69
1	Cm	45	TYR	CA-C-O	-6.23	113.59	120.69
1	Cj	45	TYR	CA-C-O	-6.23	113.59	120.69
3	Yq	720	ALA	N-CA-C	6.23	120.15	111.74
1	Em	45	TYR	CA-C-O	-6.23	113.63	120.36
1	Du	53	GLU	CA-C-O	-6.23	114.78	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Y7	720	ALA	N-CA-C	6.23	120.15	111.74
1	DN	53	GLU	CA-C-O	-6.23	114.78	121.94
3	YM	720	ALA	N-CA-C	6.23	120.15	111.74
1	LI	73	ASP	CB-CA-C	6.23	121.13	110.79
1	CE	45	TYR	CA-C-O	-6.23	113.59	120.69
1	CI	45	TYR	CA-C-O	-6.23	113.59	120.69
1	Ci	45	TYR	CA-C-O	-6.23	113.59	120.69
1	DH	38	ARG	N-CA-C	-6.23	98.75	108.90
1	Lm	42	GLY	N-CA-C	-6.23	105.32	112.29
1	C1	45	TYR	CA-C-O	-6.22	113.59	120.69
1	LH	78	ALA	CA-C-O	-6.22	113.41	120.32
3	Xf	630	ASN	N-CA-C	-6.22	105.44	113.16
1	AY	83	ARG	CA-C-O	-6.22	113.41	120.32
1	Bo	24	ALA	CA-C-O	-6.22	114.24	120.90
1	DU	53	GLU	CA-C-O	-6.22	114.85	121.88
1	BK	24	ALA	CA-C-O	-6.22	114.24	120.90
1	LJ	78	ALA	CA-C-O	-6.22	113.41	120.32
3	Yi	707	ILE	N-CA-C	-6.22	106.67	112.83
1	CY	45	TYR	CA-C-O	-6.22	113.60	120.69
1	Ec	45	TYR	CA-C-O	-6.22	113.64	120.36
1	Ca	45	TYR	CA-C-O	-6.22	113.60	120.69
1	BO	24	ALA	CA-C-O	-6.22	114.25	120.90
1	Af	83	ARG	CA-C-O	-6.22	113.42	120.32
1	DX	53	GLU	CA-C-O	-6.22	114.79	121.94
1	AM	83	ARG	CA-C-O	-6.22	113.42	120.32
1	CL	45	TYR	CA-C-O	-6.22	113.60	120.69
1	LX	78	ALA	CA-C-O	-6.22	113.42	120.32
1	DI	53	GLU	CA-C-O	-6.22	114.79	121.94
1	D2	53	GLU	CA-C-O	-6.21	114.79	121.94
1	C6	45	TYR	CA-C-O	-6.21	113.61	120.69
1	CQ	45	TYR	CA-C-O	-6.21	113.61	120.69
1	CK	45	TYR	CA-C-O	-6.21	113.61	120.69
1	LO	78	ALA	CA-C-O	-6.21	113.42	120.32
1	Ae	83	ARG	CA-C-O	-6.21	113.42	120.32
1	Bc	24	ALA	CA-C-O	-6.21	114.25	120.90
1	Cw	45	TYR	CA-C-O	-6.21	113.61	120.69
1	CB	45	TYR	CA-C-O	-6.21	113.61	120.69
1	LB	78	ALA	CA-C-O	-6.21	113.42	120.32
1	LQ	78	ALA	CA-C-O	-6.21	113.42	120.32
1	A1	83	ARG	CA-C-O	-6.21	113.42	120.32
1	L6	78	ALA	CA-C-O	-6.21	113.42	120.32
1	AG	83	ARG	CA-C-O	-6.21	113.42	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AW	83	ARG	CA-C-O	-6.21	113.42	120.32
1	A4	83	ARG	CA-C-O	-6.21	113.43	120.32
1	D1	53	GLU	CA-C-O	-6.21	114.80	121.94
1	CT	45	TYR	CA-C-O	-6.21	113.61	120.69
1	DG	53	GLU	CA-C-O	-6.21	114.80	121.94
1	Dk	53	GLU	CA-C-O	-6.21	114.80	121.94
1	CC	45	TYR	CA-C-O	-6.21	113.61	120.69
1	A2	83	ARG	CA-C-O	-6.21	113.43	120.32
1	AH	83	ARG	CA-C-O	-6.21	113.43	120.32
1	CG	45	TYR	CA-C-O	-6.21	113.61	120.69
1	LG	78	ALA	CA-C-O	-6.21	113.43	120.32
1	Ch	45	TYR	CA-C-O	-6.21	113.61	120.69
3	Yb	720	ALA	N-CA-C	6.21	120.12	111.74
1	Lv	78	ALA	CA-C-O	-6.21	113.43	120.32
1	B0	24	ALA	CA-C-O	-6.21	114.26	120.90
1	Cf	45	TYR	CA-C-O	-6.21	113.61	120.69
1	Cu	45	TYR	CA-C-O	-6.21	113.61	120.69
3	XI	630	ASN	N-CA-C	-6.21	104.34	112.41
1	AB	83	ARG	CA-C-O	-6.21	113.43	120.32
1	DQ	53	GLU	CA-C-O	-6.21	114.81	121.94
1	Do	53	GLU	CA-C-O	-6.21	114.80	121.94
1	Bp	24	ALA	CA-C-O	-6.21	114.26	120.90
1	LS	78	ALA	CA-C-O	-6.20	113.44	120.32
1	AJ	83	ARG	CA-C-O	-6.20	113.43	120.32
1	Bb	24	ALA	CA-C-O	-6.20	114.26	120.90
3	YE	707	ILE	N-CA-C	-6.20	106.69	112.83
1	CP	45	TYR	CA-C-O	-6.20	113.62	120.69
3	YT	707	ILE	N-CA-C	-6.20	106.69	112.83
1	CS	45	TYR	CA-C-O	-6.20	113.62	120.69
1	Lf	78	ALA	CA-C-O	-6.20	113.44	120.32
1	LW	78	ALA	CA-C-O	-6.20	113.44	120.32
1	AA	83	ARG	CA-C-O	-6.20	113.44	120.32
1	LP	78	ALA	CA-C-O	-6.20	113.44	120.32
1	DR	53	GLU	CA-C-O	-6.20	114.81	121.94
1	A0	83	ARG	CA-C-O	-6.20	113.44	120.32
1	Ah	83	ARG	CA-C-O	-6.20	113.44	120.32
3	Yx	707	ILE	N-CA-C	-6.20	106.69	112.83
1	L1	78	ALA	CA-C-O	-6.20	113.44	120.32
1	Cg	45	TYR	CA-C-O	-6.20	113.63	120.69
1	CA	45	TYR	CA-C-O	-6.19	113.63	120.69
1	C5	45	TYR	CA-C-O	-6.19	113.63	120.69
1	Cv	45	TYR	CA-C-O	-6.19	113.63	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ll	78	ALA	CA-C-O	-6.19	113.45	120.32
1	Bq	24	ALA	CA-C-O	-6.19	114.27	120.90
1	EF	73	ASP	N-CA-C	6.19	118.03	111.28
1	DW	53	GLU	CA-C-O	-6.19	114.82	121.94
1	AS	83	ARG	CA-C-O	-6.19	113.45	120.32
1	D3	53	GLU	CA-C-O	-6.19	114.82	121.94
1	Ai	83	ARG	CA-C-O	-6.19	113.45	120.32
1	Lu	78	ALA	CA-C-O	-6.19	113.45	120.32
1	Bj	24	ALA	CA-C-O	-6.19	114.28	120.90
3	Xm	699	GLN	N-CA-C	6.19	119.93	111.39
1	BV	24	ALA	CA-C-O	-6.19	114.28	120.90
1	D0	53	GLU	CA-C-O	-6.18	114.83	121.94
1	DZ	53	GLU	CA-C-O	-6.18	114.83	121.94
1	BU	24	ALA	CA-C-O	-6.18	114.28	120.90
1	Au	83	ARG	CA-C-O	-6.18	113.45	120.32
1	Cn	45	TYR	CA-C-O	-6.18	113.64	120.69
1	L3	78	ALA	CA-C-O	-6.18	113.45	120.32
1	LI	78	ALA	CA-C-O	-6.18	113.45	120.32
1	C0	45	TYR	CA-C-O	-6.18	113.64	120.69
1	Dg	53	GLU	CA-C-O	-6.18	114.83	121.94
1	AU	83	ARG	CA-C-O	-6.18	113.46	120.32
1	A6	83	ARG	CA-C-O	-6.18	113.46	120.32
1	LL	78	ALA	CA-C-O	-6.18	113.46	120.32
1	LV	78	ALA	CA-C-O	-6.18	113.46	120.32
1	Ck	45	TYR	CA-C-O	-6.18	113.64	120.69
1	CF	45	TYR	CA-C-O	-6.18	113.65	120.69
1	D5	53	GLU	CA-C-O	-6.18	114.84	121.94
1	D9	53	GLU	CA-C-O	-6.18	114.84	121.94
1	LU	78	ALA	CA-C-O	-6.18	113.46	120.32
1	L8	78	ALA	CA-C-O	-6.17	113.47	120.32
3	X6	718	MET	N-CA-C	6.17	118.01	111.28
3	XL	718	MET	N-CA-C	6.17	118.01	111.28
1	Bk	24	ALA	CA-C-O	-6.17	114.29	120.90
1	Dm	53	GLU	CA-C-O	-6.17	114.84	121.94
1	AD	83	ARG	CA-C-O	-6.17	113.47	120.32
1	LR	78	ALA	CA-C-O	-6.17	113.47	120.32
1	Dd	53	GLU	CA-C-O	-6.17	114.84	121.94
1	Ds	53	GLU	CA-C-O	-6.17	114.84	121.94
3	XX	699	GLN	N-CA-C	6.17	119.91	111.39
1	DC	53	GLU	CA-C-O	-6.17	114.84	121.94
1	Dv	53	GLU	CA-C-O	-6.17	114.84	121.94
1	LC	78	ALA	CA-C-O	-6.17	113.47	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AK	83	ARG	CA-C-O	-6.17	113.47	120.32
1	BF	24	ALA	CA-C-O	-6.17	114.30	120.90
1	LE	78	ALA	CA-C-O	-6.17	113.47	120.32
1	Lg	78	ALA	CA-C-O	-6.17	113.47	120.32
1	CV	45	TYR	CA-C-O	-6.17	113.66	120.69
1	Dx	53	GLU	CA-C-O	-6.17	114.85	121.94
1	Co	45	TYR	CA-C-O	-6.17	113.66	120.69
1	Fw	45	TYR	CA-C-O	-6.17	113.71	120.43
1	Br	24	ALA	CA-C-O	-6.17	114.30	120.90
1	Dl	53	GLU	CA-C-O	-6.17	114.85	121.94
1	CZ	45	TYR	CA-C-O	-6.17	113.66	120.69
1	Al	83	ARG	CA-C-O	-6.17	113.48	120.32
1	AE	83	ARG	CA-C-O	-6.16	113.48	120.32
1	La	78	ALA	CA-C-O	-6.16	113.48	120.32
1	AT	83	ARG	CA-C-O	-6.16	113.48	120.32
1	DT	53	GLU	CA-C-O	-6.16	114.85	121.94
1	AP	83	ARG	CA-C-O	-6.16	113.48	120.32
1	LT	78	ALA	CA-C-O	-6.16	113.48	120.32
1	L0	78	ALA	CA-C-O	-6.16	113.48	120.32
3	YV	707	ILE	N-CA-C	-6.16	106.73	112.83
1	Lc	78	ALA	CA-C-O	-6.16	113.48	120.32
1	Ax	83	ARG	CA-C-O	-6.16	113.48	120.32
1	Lr	78	ALA	CA-C-O	-6.16	113.48	120.32
1	LN	78	ALA	CA-C-O	-6.16	113.49	120.32
1	AZ	83	ARG	CA-C-O	-6.15	113.49	120.32
1	Ac	83	ARG	CA-C-O	-6.15	113.49	120.32
1	Lo	78	ALA	CA-C-O	-6.15	113.49	120.32
1	Lj	78	ALA	CA-C-O	-6.15	113.49	120.32
3	X3	699	GLN	N-CA-C	6.15	119.88	111.39
3	XI	699	GLN	N-CA-C	6.15	119.88	111.39
1	A5	83	ARG	CA-C-O	-6.15	113.49	120.32
1	L5	78	ALA	CA-C-O	-6.15	113.49	120.32
1	FS	45	TYR	CA-C-O	-6.15	113.73	120.43
1	LK	78	ALA	CA-C-O	-6.15	113.49	120.32
1	LF	78	ALA	CA-C-O	-6.15	113.49	120.32
1	Le	78	ALA	CA-C-O	-6.15	113.49	120.32
1	Lb	73	ASP	CB-CA-C	6.15	121.31	110.85
1	Lt	78	ALA	CA-C-O	-6.15	113.49	120.32
1	Aj	83	ARG	CA-C-O	-6.15	113.49	120.32
1	DK	53	GLU	CA-C-O	-6.15	114.87	121.94
1	FH	73	ASP	CB-CA-C	6.15	121.30	110.85
1	Ak	83	ARG	CA-C-O	-6.15	113.49	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Lp	78	ALA	CA-C-O	-6.15	113.50	120.32
1	AC	83	ARG	CA-C-O	-6.15	113.50	120.32
1	A3	83	ARG	CA-C-O	-6.14	113.50	120.32
1	AI	83	ARG	CA-C-O	-6.14	113.50	120.32
1	DO	53	GLU	CA-C-O	-6.14	114.88	121.94
1	Fc	73	ASP	CB-CA-C	6.14	121.29	110.85
1	Fr	73	ASP	CB-CA-C	6.14	121.29	110.85
1	D4	74	GLY	N-CA-C	6.14	120.76	110.56
1	Ct	45	TYR	CA-C-O	-6.14	113.69	120.69
3	Xp	718	MET	N-CA-C	6.14	117.97	111.28
3	Xa	718	MET	N-CA-C	6.14	117.97	111.28
1	FI	73	ASP	CB-CA-C	6.14	121.29	110.85
1	Di	53	GLU	CA-C-O	-6.14	114.88	121.94
1	AV	83	ARG	CA-C-O	-6.14	113.50	120.32
1	Ag	83	ARG	CA-C-O	-6.14	113.51	120.32
1	FX	73	ASP	CB-CA-C	6.14	121.28	110.85
1	Fk	73	ASP	CB-CA-C	6.14	121.28	110.85
1	A8	83	ARG	CA-C-O	-6.14	113.51	120.32
1	FU	73	ASP	CB-CA-C	6.14	121.28	110.85
1	Lq	73	ASP	CB-CA-C	6.14	121.28	110.85
1	Fu	73	ASP	CB-CA-C	6.13	121.28	110.85
3	Yk	707	ILE	N-CA-C	-6.13	106.76	112.83
1	AX	83	ARG	CA-C-O	-6.13	113.51	120.32
1	FF	30	ALA	N-CA-C	6.13	118.05	111.36
1	FV	73	ASP	CB-CA-C	6.13	121.27	110.85
1	DE	53	GLU	CA-C-O	-6.13	114.89	121.94
1	FT	73	ASP	CB-CA-C	6.13	121.27	110.85
1	FC	73	ASP	CB-CA-C	6.13	121.27	110.85
1	F3	73	ASP	CB-CA-C	6.13	121.27	110.85
1	FG	73	ASP	CB-CA-C	6.13	121.27	110.85
1	Fa	73	ASP	CB-CA-C	6.13	121.27	110.85
1	Fd	73	ASP	CB-CA-C	6.13	121.27	110.85
1	Fw	74	GLY	N-CA-C	6.13	119.55	110.60
1	Fo	73	ASP	CB-CA-C	6.13	121.27	110.85
3	Y1	707	ILE	N-CA-C	-6.13	106.77	112.83
1	FJ	45	TYR	CA-C-O	-6.13	113.75	120.43
1	Ff	73	ASP	CB-CA-C	6.12	121.26	110.85
1	Ar	83	ARG	CA-C-O	-6.12	113.52	120.32
1	Ls	73	ASP	CB-CA-C	6.12	121.26	110.85
1	F6	73	ASP	CB-CA-C	6.12	121.26	110.85
1	F8	73	ASP	CB-CA-C	6.12	121.26	110.85
1	FN	73	ASP	CB-CA-C	6.12	121.26	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	IU	10	GLY	CA-C-O	-6.12	115.60	121.11
1	Lw	73	ASP	CB-CA-C	6.12	121.26	110.85
1	Ao	83	ARG	CA-C-O	-6.12	113.52	120.32
1	Fn	45	TYR	CA-C-O	-6.12	113.75	120.43
1	Fp	73	ASP	CB-CA-C	6.12	121.26	110.85
1	Ij	10	GLY	CA-C-O	-6.12	115.60	121.11
1	F8	45	TYR	CA-C-O	-6.12	113.76	120.43
1	AN	83	ARG	CA-C-O	-6.12	113.53	120.32
1	FW	73	ASP	CB-CA-C	6.12	121.26	110.85
1	Aa	83	ARG	CA-C-O	-6.12	113.53	120.32
1	Fx	73	ASP	CB-CA-C	6.12	121.25	110.85
1	Ap	83	ARG	CA-C-O	-6.12	113.53	120.32
1	Fl	73	ASP	CB-CA-C	6.12	121.26	110.85
1	F5	73	ASP	CB-CA-C	6.12	121.25	110.85
1	L7	73	ASP	CB-CA-C	6.12	121.25	110.85
3	YG	707	ILE	N-CA-C	-6.12	106.77	112.83
1	FZ	73	ASP	CB-CA-C	6.12	121.25	110.85
1	LZ	78	ALA	CA-C-O	-6.12	113.53	120.32
1	Fm	73	ASP	CB-CA-C	6.12	121.25	110.85
1	Fs	74	GLY	N-CA-C	6.12	119.53	110.60
1	LM	73	ASP	CB-CA-C	6.12	121.25	110.85
1	FO	73	ASP	CB-CA-C	6.12	121.25	110.85
1	Fg	73	ASP	CB-CA-C	6.12	121.25	110.85
1	Fv	45	TYR	CA-C-O	-6.12	113.76	120.43
1	F1	73	ASP	CB-CA-C	6.12	121.25	110.85
1	F0	73	ASP	CB-CA-C	6.12	121.25	110.85
1	LH	73	ASP	CB-CA-C	6.12	121.25	110.85
1	FO	74	GLY	N-CA-C	6.12	119.53	110.60
1	Fe	73	ASP	CB-CA-C	6.12	121.25	110.85
1	Fv	73	ASP	CB-CA-C	6.12	121.25	110.85
1	FE	73	ASP	CB-CA-C	6.11	121.24	110.85
1	F2	73	ASP	CB-CA-C	6.11	121.24	110.85
1	LQ	73	ASP	CB-CA-C	6.11	121.24	110.85
1	Fj	73	ASP	CB-CA-C	6.11	121.24	110.85
1	FR	73	ASP	CB-CA-C	6.11	121.24	110.85
1	Av	83	ARG	CA-C-O	-6.11	113.54	120.32
1	Fs	73	ASP	CB-CA-C	6.11	121.24	110.85
1	FA	73	ASP	CB-CA-C	6.11	121.24	110.85
1	FS	74	GLY	N-CA-C	6.11	119.52	110.60
1	LS	73	ASP	CB-CA-C	6.11	121.24	110.85
1	Ld	73	ASP	CB-CA-C	6.11	121.24	110.85
1	FY	73	ASP	CB-CA-C	6.11	121.24	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	FY	74	GLY	N-CA-C	6.11	119.52	110.60
1	F9	45	TYR	CA-C-O	-6.11	113.77	120.43
1	Am	83	ARG	CA-C-O	-6.11	113.54	120.32
1	FN	45	TYR	CA-C-O	-6.11	113.78	120.43
1	Lh	73	ASP	CB-CA-C	6.11	121.23	110.85
1	Fc	45	TYR	CA-C-O	-6.11	113.78	120.43
1	Fr	45	TYR	CA-C-O	-6.11	113.78	120.43
1	Fh	74	GLY	N-CA-C	6.11	119.51	110.60
1	FB	73	ASP	CB-CA-C	6.10	121.23	110.85
1	FD	73	ASP	CB-CA-C	6.10	121.23	110.85
1	FQ	73	ASP	CB-CA-C	6.10	121.23	110.85
1	FS	73	ASP	CB-CA-C	6.10	121.23	110.85
1	Fe	74	GLY	N-CA-C	6.10	119.51	110.60
1	FL	73	ASP	CB-CA-C	6.10	121.23	110.85
1	Dl	37	GLY	N-CA-C	6.10	122.13	111.14
1	FD	74	GLY	N-CA-C	6.10	119.51	110.60
1	L4	73	ASP	CB-CA-C	6.10	121.22	110.85
1	LV	73	ASP	CB-CA-C	6.10	121.22	110.85
1	Fd	45	TYR	CA-C-O	-6.10	113.78	120.43
1	Fs	45	TYR	CA-C-O	-6.10	113.78	120.43
1	Fm	45	TYR	CA-C-O	-6.10	113.78	120.43
1	LB	73	ASP	CB-CA-C	6.10	121.22	110.85
1	LE	73	ASP	CB-CA-C	6.10	121.22	110.85
1	LJ	73	ASP	CB-CA-C	6.10	121.22	110.85
1	Lf	73	ASP	CB-CA-C	6.10	121.22	110.85
1	Ft	73	ASP	CB-CA-C	6.10	121.22	110.85
1	F4	73	ASP	CB-CA-C	6.10	121.22	110.85
1	L9	73	ASP	CB-CA-C	6.10	121.22	110.85
1	LO	73	ASP	CB-CA-C	6.10	121.22	110.85
1	FY	45	TYR	CA-C-O	-6.10	113.78	120.43
1	F9	73	ASP	CB-CA-C	6.10	121.21	110.85
1	FJ	73	ASP	CB-CA-C	6.10	121.21	110.85
1	FK	73	ASP	CB-CA-C	6.10	121.21	110.85
1	Fi	73	ASP	CB-CA-C	6.10	121.21	110.85
1	Ll	73	ASP	CB-CA-C	6.10	121.21	110.85
1	L6	73	ASP	CB-CA-C	6.09	121.21	110.85
1	LL	73	ASP	CB-CA-C	6.09	121.21	110.85
1	Li	73	ASP	CB-CA-C	6.09	121.21	110.85
1	Fx	45	TYR	CA-C-O	-6.09	113.79	120.43
1	Lp	73	ASP	CB-CA-C	6.09	121.21	110.85
1	LZ	73	ASP	CB-CA-C	6.09	121.21	110.85
1	Fn	73	ASP	CB-CA-C	6.09	121.21	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	FA	74	GLY	N-CA-C	6.09	119.49	110.60
1	LD	73	ASP	CB-CA-C	6.09	121.20	110.85
1	L0	73	ASP	CB-CA-C	6.09	121.21	110.85
1	FP	73	ASP	CB-CA-C	6.09	121.20	110.85
1	LT	73	ASP	CB-CA-C	6.09	121.20	110.85
1	FK	45	TYR	CA-C-O	-6.09	113.79	120.43
1	LK	73	ASP	CB-CA-C	6.09	121.21	110.85
1	FX	74	GLY	N-CA-C	6.09	119.49	110.60
1	Fw	73	ASP	CB-CA-C	6.09	121.20	110.85
1	FD	45	TYR	CA-C-O	-6.09	113.79	120.43
1	Fd	74	GLY	N-CA-C	6.09	119.49	110.60
1	Lx	73	ASP	CB-CA-C	6.09	121.20	110.85
1	Fr	74	GLY	N-CA-C	6.09	119.49	110.60
1	Fq	73	ASP	CB-CA-C	6.09	121.20	110.85
1	F7	73	ASP	CB-CA-C	6.09	121.20	110.85
1	FM	73	ASP	CB-CA-C	6.09	121.20	110.85
1	IF	10	GLY	CA-C-O	-6.09	115.63	121.11
1	LY	73	ASP	CB-CA-C	6.09	121.20	110.85
1	F4	74	GLY	N-CA-C	6.09	119.49	110.60
1	L1	73	ASP	CB-CA-C	6.09	121.20	110.85
1	L5	73	ASP	CB-CA-C	6.09	121.20	110.85
1	F8	74	GLY	N-CA-C	6.09	119.49	110.60
1	FJ	74	GLY	N-CA-C	6.09	119.49	110.60
1	LG	73	ASP	CB-CA-C	6.09	121.20	110.85
1	FN	74	GLY	N-CA-C	6.09	119.49	110.60
1	LF	73	ASP	CB-CA-C	6.09	121.20	110.85
1	Fa	74	GLY	N-CA-C	6.09	119.49	110.60
1	LU	73	ASP	CB-CA-C	6.09	121.20	110.85
1	La	73	ASP	CB-CA-C	6.09	121.20	110.85
1	Lo	73	ASP	CB-CA-C	6.09	121.20	110.85
1	Fp	74	GLY	N-CA-C	6.09	119.49	110.60
1	LN	73	ASP	CB-CA-C	6.08	121.19	110.85
1	Fh	73	ASP	CB-CA-C	6.08	121.19	110.85
3	XX	633	GLY	N-CA-C	6.08	123.67	114.61
1	I0	10	GLY	CA-C-O	-6.08	115.64	121.11
1	Fi	74	GLY	N-CA-C	6.08	119.48	110.60
1	FV	74	GLY	N-CA-C	6.08	119.48	110.60
1	F9	74	GLY	N-CA-C	6.08	119.48	110.60
1	Fg	74	GLY	N-CA-C	6.08	119.48	110.60
1	Fv	74	GLY	N-CA-C	6.08	119.48	110.60
1	Lu	73	ASP	CB-CA-C	6.08	121.19	110.85
1	Fm	74	GLY	N-CA-C	6.08	119.48	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Fj	45	TYR	CA-C-O	-6.08	113.80	120.43
1	LA	73	ASP	CB-CA-C	6.08	121.18	110.85
1	LC	73	ASP	CB-CA-C	6.08	121.18	110.85
1	L8	73	ASP	CB-CA-C	6.08	121.18	110.85
1	AR	83	ARG	CA-C-O	-6.08	113.57	120.32
1	FR	45	TYR	CA-C-O	-6.08	113.80	120.43
1	LP	73	ASP	CB-CA-C	6.08	121.18	110.85
1	FK	74	GLY	N-CA-C	6.08	119.47	110.60
1	FW	45	TYR	CA-C-O	-6.08	113.80	120.43
1	IZ	10	GLY	CA-C-O	-6.08	115.64	121.11
1	LW	73	ASP	CB-CA-C	6.08	121.18	110.85
1	L2	73	ASP	CB-CA-C	6.08	121.18	110.85
1	FR	74	GLY	N-CA-C	6.08	119.47	110.60
1	Lv	73	ASP	CB-CA-C	6.08	121.18	110.85
1	Fn	74	GLY	N-CA-C	6.08	119.47	110.60
1	FL	74	GLY	N-CA-C	6.08	119.47	110.60
1	Fe	45	TYR	CA-C-O	-6.07	113.81	120.43
1	Ft	45	TYR	CA-C-O	-6.07	113.81	120.43
1	Ft	74	GLY	N-CA-C	6.07	119.47	110.60
1	FF	45	TYR	CA-C-O	-6.07	113.81	120.43
1	LX	73	ASP	CB-CA-C	6.07	121.17	110.85
1	Mm	76	VAL	N-CA-C	-6.07	104.71	110.42
1	F3	45	TYR	CA-C-O	-6.07	113.81	120.43
1	Ff	74	GLY	N-CA-C	6.07	119.46	110.60
1	Fg	45	TYR	CA-C-O	-6.07	113.81	120.43
1	IX	10	GLY	CA-C-O	-6.07	115.65	121.11
1	Fb	73	ASP	CB-CA-C	6.07	121.17	110.85
1	Lc	73	ASP	CB-CA-C	6.07	121.17	110.85
1	Ln	73	ASP	CB-CA-C	6.07	121.17	110.85
1	F3	74	GLY	N-CA-C	6.07	119.46	110.60
1	FQ	74	GLY	N-CA-C	6.07	119.46	110.60
1	FI	74	GLY	N-CA-C	6.07	119.46	110.60
1	F1	74	GLY	N-CA-C	6.07	119.46	110.60
1	FT	74	GLY	N-CA-C	6.07	119.46	110.60
1	Fu	74	GLY	N-CA-C	6.07	119.46	110.60
1	Fo	45	TYR	CA-C-O	-6.07	113.82	120.43
1	Ep	76	VAL	N-CA-C	-6.07	105.91	111.67
1	L3	73	ASP	CB-CA-C	6.07	121.16	110.85
1	F0	74	GLY	N-CA-C	6.07	119.46	110.60
1	FG	74	GLY	N-CA-C	6.07	119.46	110.60
1	FZ	45	TYR	CA-C-O	-6.07	113.82	120.43
1	Lk	73	ASP	CB-CA-C	6.07	121.16	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F5	74	GLY	N-CA-C	6.06	119.45	110.60
1	Lg	73	ASP	CB-CA-C	6.06	121.16	110.85
1	Fb	74	GLY	N-CA-C	6.06	119.45	110.60
1	FC	45	TYR	CA-C-O	-6.06	113.82	120.43
1	F5	45	TYR	CA-C-O	-6.06	113.82	120.43
1	F6	74	GLY	N-CA-C	6.06	119.45	110.60
1	FP	74	GLY	N-CA-C	6.06	119.45	110.60
1	Le	73	ASP	CB-CA-C	6.06	121.16	110.85
1	Il	10	GLY	CA-C-O	-6.06	115.65	121.11
1	FE	45	TYR	CA-C-O	-6.06	113.82	120.43
1	FT	45	TYR	CA-C-O	-6.06	113.82	120.43
1	Fi	45	TYR	CA-C-O	-6.06	113.82	120.43
1	IV	10	GLY	CA-C-O	-6.06	115.66	121.11
1	Ik	10	GLY	CA-C-O	-6.06	115.66	121.11
3	X5	630	ASN	N-CA-C	-6.06	105.69	114.12
1	FM	74	GLY	N-CA-C	6.06	119.45	110.60
1	LR	73	ASP	CB-CA-C	6.06	121.15	110.85
1	IL	10	GLY	CA-C-O	-6.06	115.66	121.11
1	Fo	74	GLY	N-CA-C	6.06	119.44	110.60
1	Lr	73	ASP	CB-CA-C	6.06	121.15	110.85
1	FE	74	GLY	N-CA-C	6.06	119.44	110.60
1	Lj	73	ASP	CB-CA-C	6.06	121.14	110.85
1	F0	45	TYR	CA-C-O	-6.05	113.83	120.43
1	IH	10	GLY	CA-C-O	-6.05	115.66	121.11
1	FX	45	TYR	CA-C-O	-6.05	113.83	120.43
1	Fc	74	GLY	N-CA-C	6.05	119.44	110.60
1	Fj	74	GLY	N-CA-C	6.05	119.44	110.60
1	Id	10	GLY	CA-C-O	-6.05	115.66	121.11
1	FU	74	GLY	N-CA-C	6.05	119.44	110.60
1	Fx	74	GLY	N-CA-C	6.05	119.43	110.60
1	Fh	45	TYR	CA-C-O	-6.05	113.83	120.43
1	FB	74	GLY	N-CA-C	6.05	119.43	110.60
1	FC	74	GLY	N-CA-C	6.05	119.43	110.60
1	F2	45	TYR	CA-C-O	-6.05	113.84	120.43
1	F2	74	GLY	N-CA-C	6.05	119.43	110.60
1	FH	74	GLY	N-CA-C	6.05	119.43	110.60
1	Fq	74	GLY	N-CA-C	6.05	119.43	110.60
1	FO	45	TYR	CA-C-O	-6.05	113.84	120.43
1	Fk	74	GLY	N-CA-C	6.05	119.43	110.60
1	FA	45	TYR	CA-C-O	-6.05	113.84	120.43
1	IB	10	GLY	CA-C-O	-6.05	115.67	121.11
1	F7	74	GLY	N-CA-C	6.05	119.43	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	FP	45	TYR	CA-C-O	-6.05	113.84	120.43
1	LY	13	GLU	CA-C-O	-6.05	114.30	120.71
1	II	10	GLY	CA-C-O	-6.04	115.67	121.11
1	IC	10	GLY	CA-C-O	-6.04	115.67	121.11
1	Lt	73	ASP	CB-CA-C	6.04	121.12	110.85
1	Ln	13	GLU	CA-C-O	-6.04	114.30	120.71
1	Fl	74	GLY	N-CA-C	6.04	119.42	110.60
1	F1	45	TYR	CA-C-O	-6.04	113.84	120.43
1	F4	45	TYR	CA-C-O	-6.04	113.85	120.43
1	IQ	10	GLY	CA-C-O	-6.04	115.67	121.11
1	Lw	13	GLU	CA-C-O	-6.04	114.31	120.71
1	Ea	76	VAL	N-CA-C	-6.04	105.93	111.67
1	FU	45	TYR	CA-C-O	-6.04	113.85	120.43
1	Fq	45	TYR	CA-C-O	-6.04	113.85	120.43
1	If	10	GLY	CA-C-O	-6.03	115.68	121.11
1	Ib	10	GLY	CA-C-O	-6.03	115.68	121.11
1	Iu	10	GLY	CA-C-O	-6.03	115.68	121.11
1	Iq	10	GLY	CA-C-O	-6.03	115.68	121.11
1	FZ	74	GLY	N-CA-C	6.03	119.41	110.60
3	XX	644	VAL	N-CA-C	6.03	117.03	110.21
1	Dh	37	GLY	N-CA-C	6.03	120.57	110.56
1	DJ	42	GLY	N-CA-C	-6.03	103.72	112.17
1	I3	10	GLY	CA-C-O	-6.03	115.68	121.11
1	I5	10	GLY	CA-C-O	-6.03	115.68	121.11
1	IK	10	GLY	CA-C-O	-6.03	115.68	121.11
1	IW	10	GLY	CA-C-O	-6.03	115.68	121.11
1	Fb	45	TYR	CA-C-O	-6.03	113.86	120.43
1	Im	10	GLY	CA-C-O	-6.03	115.68	121.11
1	FI	45	TYR	CA-C-O	-6.03	113.86	120.43
1	FW	74	GLY	N-CA-C	6.03	119.40	110.60
1	I1	10	GLY	CA-C-O	-6.03	115.69	121.11
1	Io	10	GLY	CA-C-O	-6.03	115.69	121.11
1	Iv	10	GLY	CA-C-O	-6.03	115.69	121.11
1	IT	10	GLY	CA-C-O	-6.02	115.69	121.11
1	IE	10	GLY	CA-C-O	-6.02	115.69	121.11
1	I2	10	GLY	CA-C-O	-6.02	115.69	121.11
2	P9	63	GLY	N-CA-C	6.02	121.96	114.37
1	FH	45	TYR	CA-C-O	-6.02	113.87	120.43
2	PO	63	GLY	N-CA-C	6.02	121.96	114.37
1	Ii	10	GLY	CA-C-O	-6.02	115.69	121.11
1	Ia	10	GLY	CA-C-O	-6.02	115.69	121.11
1	Ix	10	GLY	CA-C-O	-6.02	115.69	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ip	10	GLY	CA-C-O	-6.02	115.69	121.11
1	Dn	92	LEU	CA-C-N	-6.02	112.96	120.79
1	Dn	92	LEU	C-N-CA	-6.02	112.96	120.79
1	I7	10	GLY	CA-C-O	-6.02	115.69	121.11
1	IS	10	GLY	CA-C-O	-6.02	115.69	121.11
1	Ic	10	GLY	CA-C-O	-6.02	115.69	121.11
1	Ir	10	GLY	CA-C-O	-6.02	115.69	121.11
1	Is	10	GLY	CA-C-O	-6.02	115.69	121.11
1	F6	45	TYR	CA-C-O	-6.02	113.87	120.43
1	I6	10	GLY	CA-C-O	-6.02	115.69	121.11
1	I8	10	GLY	CA-C-O	-6.02	115.70	121.11
1	IN	10	GLY	CA-C-O	-6.02	115.70	121.11
1	Ig	10	GLY	CA-C-O	-6.01	115.70	121.11
1	Lm	37	GLY	N-CA-C	6.01	119.87	110.91
3	Xw	714	THR	CB-CA-C	6.01	120.53	109.71
2	Pf	42	ILE	N-CA-C	-6.01	101.17	109.46
2	Pu	42	ILE	N-CA-C	-6.01	101.17	109.46
1	In	10	GLY	CA-C-O	-6.01	115.70	121.11
1	Dw	30	ALA	N-CA-C	6.01	117.91	111.36
3	Yn	719	LEU	N-CA-C	6.01	118.46	110.53
1	I4	10	GLY	CA-C-O	-6.00	115.70	121.11
1	F7	45	TYR	CA-C-O	-6.00	113.88	120.43
1	IR	10	GLY	CA-C-O	-6.00	115.71	121.11
1	FM	45	TYR	CA-C-O	-6.00	113.88	120.43
1	Ee	76	VAL	N-CA-C	-6.00	105.97	111.67
1	LL	13	GLU	CA-C-O	-6.00	114.34	120.71
1	I9	10	GLY	CA-C-O	-6.00	115.71	121.11
1	IO	10	GLY	CA-C-O	-6.00	115.71	121.11
1	FV	45	TYR	CA-C-O	-6.00	113.89	120.43
2	PP	42	ILE	N-CA-C	-6.00	101.18	109.46
1	IY	10	GLY	CA-C-O	-6.00	115.71	121.11
1	En	76	VAL	N-CA-C	-6.00	105.97	111.67
3	Y4	719	LEU	N-CA-C	5.99	118.44	110.53
3	YJ	719	LEU	N-CA-C	5.99	118.44	110.53
2	PN	53	VAL	N-CA-C	5.99	121.81	109.34
1	Nv	45	TYR	CA-C-O	-5.99	114.03	120.92
1	FL	45	TYR	CA-C-O	-5.99	113.90	120.43
1	E3	81	ILE	N-CA-C	-5.99	99.24	107.99
1	ID	10	GLY	CA-C-O	-5.99	115.72	121.11
1	IM	10	GLY	CA-C-O	-5.99	115.72	121.11
1	FB	45	TYR	CA-C-O	-5.99	113.90	120.43
1	FQ	45	TYR	CA-C-O	-5.99	113.90	120.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	PQ	42	ILE	N-CA-C	-5.99	101.19	109.46
1	IG	10	GLY	CA-C-O	-5.99	115.72	121.11
1	Fk	45	TYR	CA-C-O	-5.99	113.90	120.43
1	Fl	45	TYR	CA-C-O	-5.99	113.90	120.43
2	P8	53	VAL	N-CA-C	5.99	121.79	109.34
2	PZ	42	ILE	N-CA-C	-5.99	101.20	109.46
1	L4	13	GLU	CA-C-O	-5.99	114.36	120.71
1	E6	76	VAL	N-CA-C	-5.99	105.98	111.67
2	Pd	63	GLY	N-CA-C	5.99	121.91	114.37
2	Ps	63	GLY	N-CA-C	5.99	121.91	114.37
1	DY	31	ALA	N-CA-C	5.99	118.51	109.41
2	PK	42	ILE	N-CA-C	-5.98	101.20	109.46
1	EP	76	VAL	N-CA-C	-5.98	105.99	111.67
3	Xg	714	THR	CB-CA-C	5.98	120.48	109.71
3	YY	719	LEU	N-CA-C	5.98	118.43	110.53
1	Ed	76	VAL	N-CA-C	-5.98	105.99	111.67
1	E9	76	VAL	N-CA-C	-5.98	105.99	111.67
1	L9	13	GLU	CA-C-O	-5.98	114.37	120.71
1	EQ	76	VAL	N-CA-C	-5.98	105.99	111.67
1	LJ	13	GLU	CA-C-O	-5.98	114.37	120.71
1	AF	53	GLU	CA-C-O	-5.98	115.17	121.99
1	LO	13	GLU	CA-C-O	-5.98	114.37	120.71
2	Pc	53	VAL	N-CA-C	5.98	121.78	109.34
3	Xh	714	THR	CB-CA-C	5.98	120.48	109.71
1	LD	13	GLU	CA-C-O	-5.98	114.37	120.71
1	LS	13	GLU	CA-C-O	-5.98	114.37	120.71
1	FG	45	TYR	CA-C-O	-5.98	113.91	120.43
1	Lh	13	GLU	CA-C-O	-5.98	114.37	120.71
1	El	76	VAL	N-CA-C	-5.98	105.99	111.67
2	P5	42	ILE	N-CA-C	-5.98	101.21	109.46
1	AP	53	GLU	CA-C-O	-5.98	115.18	121.99
3	Xv	714	THR	CB-CA-C	5.98	120.47	109.71
2	Pc	42	ILE	N-CA-C	-5.98	101.21	109.46
1	Fp	45	TYR	CA-C-O	-5.98	113.92	120.43
2	PA	42	ILE	N-CA-C	-5.97	101.22	109.46
1	L6	13	GLU	CA-C-O	-5.97	114.38	120.71
2	PI	42	ILE	N-CA-C	-5.97	101.21	109.46
1	Ff	45	TYR	CA-C-O	-5.97	113.92	120.43
1	Le	13	GLU	CA-C-O	-5.97	114.38	120.71
2	Pl	42	ILE	N-CA-C	-5.97	101.22	109.46
1	Ej	76	VAL	N-CA-C	-5.97	105.99	111.67
3	YM	723	LEU	N-CA-C	-5.97	105.30	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ek	76	VAL	N-CA-C	-5.97	106.00	111.67
3	XD	714	THR	CB-CA-C	5.97	120.46	109.71
2	PE	42	ILE	N-CA-C	-5.97	101.22	109.46
2	PR	42	ILE	N-CA-C	-5.97	101.22	109.46
2	PT	42	ILE	N-CA-C	-5.97	101.22	109.46
1	EY	76	VAL	N-CA-C	-5.97	106.00	111.67
1	Fa	45	TYR	CA-C-O	-5.97	113.92	120.43
2	Px	42	ILE	N-CA-C	-5.97	101.22	109.46
1	Ls	13	GLU	CA-C-O	-5.97	114.38	120.71
3	XS	714	THR	CB-CA-C	5.97	120.46	109.71
1	ED	76	VAL	N-CA-C	-5.97	106.00	111.67
2	PB	42	ILE	N-CA-C	-5.97	101.22	109.46
1	ES	76	VAL	N-CA-C	-5.97	106.00	111.67
1	Ih	10	GLY	CA-C-O	-5.97	115.74	121.11
1	EW	76	VAL	N-CA-C	-5.97	106.00	111.67
1	Iw	10	GLY	CA-C-O	-5.97	115.74	121.11
2	Pq	42	ILE	N-CA-C	-5.97	101.22	109.46
1	DU	74	GLY	N-CA-C	5.97	118.68	110.56
1	IA	10	GLY	CA-C-O	-5.97	115.74	121.11
1	L2	13	GLU	CA-C-O	-5.97	114.39	120.71
1	IP	10	GLY	CA-C-O	-5.97	115.74	121.11
2	Pg	42	ILE	N-CA-C	-5.97	101.23	109.46
3	Xi	714	THR	CB-CA-C	5.97	120.45	109.71
1	Ld	13	GLU	CA-C-O	-5.97	114.39	120.71
1	Et	76	VAL	N-CA-C	-5.97	106.00	111.67
3	Xx	714	THR	CB-CA-C	5.97	120.45	109.71
2	Pr	53	VAL	N-CA-C	5.97	121.75	109.34
1	LM	13	GLU	CA-C-O	-5.97	114.39	120.71
1	LA	13	GLU	CA-C-O	-5.96	114.39	120.71
2	P2	42	ILE	N-CA-C	-5.96	101.23	109.46
1	LP	13	GLU	CA-C-O	-5.96	114.39	120.71
2	PH	42	ILE	N-CA-C	-5.96	101.23	109.46
1	Ef	76	VAL	N-CA-C	-5.96	106.00	111.67
2	Pb	42	ILE	N-CA-C	-5.96	101.23	109.46
1	Eu	76	VAL	N-CA-C	-5.96	106.00	111.67
1	Lt	13	GLU	CA-C-O	-5.96	114.39	120.71
2	Pv	42	ILE	N-CA-C	-5.96	101.23	109.46
1	LH	13	GLU	CA-C-O	-5.96	114.39	120.71
1	Ng	45	TYR	CA-C-O	-5.96	114.06	120.92
1	EU	76	VAL	N-CA-C	-5.96	106.01	111.67
1	E4	76	VAL	N-CA-C	-5.96	106.01	111.67
1	L7	13	GLU	CA-C-O	-5.96	114.39	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	LQ	13	GLU	CA-C-O	-5.96	114.39	120.71
1	EJ	76	VAL	N-CA-C	-5.96	106.01	111.67
1	Ie	10	GLY	CA-C-O	-5.96	115.75	121.11
1	Fu	45	TYR	CA-C-O	-5.96	113.93	120.43
1	Lu	13	GLU	CA-C-O	-5.96	114.39	120.71
3	XC	714	THR	CB-CA-C	5.96	120.43	109.71
3	XR	714	THR	CB-CA-C	5.96	120.43	109.71
1	LG	13	GLU	CA-C-O	-5.96	114.39	120.71
1	NO	45	TYR	CA-C-O	-5.96	114.07	120.92
1	Ae	53	GLU	CA-C-O	-5.96	115.20	121.99
1	LV	13	GLU	CA-C-O	-5.96	114.39	120.71
1	At	53	GLU	CA-C-O	-5.96	115.20	121.99
2	Pt	42	ILE	N-CA-C	-5.96	101.24	109.46
1	EA	76	VAL	N-CA-C	-5.96	106.01	111.67
1	EE	76	VAL	N-CA-C	-5.96	106.01	111.67
1	E0	76	VAL	N-CA-C	-5.96	106.01	111.67
2	Pi	42	ILE	N-CA-C	-5.96	101.24	109.46
2	PW	42	ILE	N-CA-C	-5.96	101.24	109.46
1	Lb	13	GLU	CA-C-O	-5.96	114.40	120.71
2	Pm	42	ILE	N-CA-C	-5.96	101.24	109.46
2	P3	42	ILE	N-CA-C	-5.96	101.24	109.46
1	IJ	10	GLY	CA-C-O	-5.95	115.75	121.11
2	Po	42	ILE	N-CA-C	-5.95	101.25	109.46
2	Pr	42	ILE	N-CA-C	-5.95	101.25	109.46
2	P9	42	ILE	N-CA-C	-5.95	101.25	109.46
2	PX	42	ILE	N-CA-C	-5.95	101.25	109.46
3	XE	714	THR	CB-CA-C	5.95	120.42	109.71
1	N6	45	TYR	CA-C-O	-5.95	114.08	120.92
1	EK	76	VAL	N-CA-C	-5.95	106.02	111.67
1	Eh	76	VAL	N-CA-C	-5.95	106.02	111.67
1	La	13	GLU	CA-C-O	-5.95	114.40	120.71
1	Lv	13	GLU	CA-C-O	-5.95	114.40	120.71
1	LB	13	GLU	CA-C-O	-5.95	114.41	120.71
1	LE	13	GLU	CA-C-O	-5.95	114.40	120.71
1	LT	13	GLU	CA-C-O	-5.95	114.40	120.71
1	NR	45	TYR	CA-C-O	-5.95	114.08	120.92
1	EG	76	VAL	N-CA-C	-5.95	106.02	111.67
2	PL	42	ILE	N-CA-C	-5.95	101.25	109.46
1	Ei	76	VAL	N-CA-C	-5.95	106.02	111.67
1	Lf	13	GLU	CA-C-O	-5.95	114.41	120.71
1	Nm	45	TYR	CA-C-O	-5.95	114.08	120.92
2	PV	42	ILE	N-CA-C	-5.95	101.25	109.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Lk	13	GLU	CA-C-O	-5.95	114.41	120.71
1	Lq	13	GLU	CA-C-O	-5.95	114.41	120.71
1	EB	76	VAL	N-CA-C	-5.95	106.02	111.67
3	XB	714	THR	CB-CA-C	5.95	120.41	109.71
2	P1	42	ILE	N-CA-C	-5.95	101.25	109.46
3	Y7	723	LEU	N-CA-C	-5.95	105.33	113.30
3	XT	714	THR	CB-CA-C	5.95	120.41	109.71
2	PG	42	ILE	N-CA-C	-5.95	101.25	109.46
2	PF	55	SER	N-CA-C	5.95	119.08	110.28
1	EV	76	VAL	N-CA-C	-5.95	106.02	111.67
2	Pn	42	ILE	N-CA-C	-5.95	101.25	109.46
1	Ar	53	GLU	CA-C-O	-5.95	115.21	121.99
2	Pj	42	ILE	CA-C-O	-5.95	116.01	121.72
3	XI	645	GLY	N-CA-C	5.95	120.15	112.54
1	ET	76	VAL	N-CA-C	-5.94	106.02	111.67
1	LZ	13	GLU	CA-C-O	-5.94	114.41	120.71
1	Ex	76	VAL	N-CA-C	-5.94	106.03	111.67
3	Xu	714	THR	CB-CA-C	5.94	120.41	109.71
1	Lo	13	GLU	CA-C-O	-5.94	114.41	120.71
2	P8	42	ILE	N-CA-C	-5.94	101.26	109.46
1	LF	13	GLU	CA-C-O	-5.94	114.41	120.71
2	PN	42	ILE	N-CA-C	-5.94	101.26	109.46
2	Pk	42	ILE	N-CA-C	-5.94	101.26	109.46
1	E2	76	VAL	N-CA-C	-5.94	106.03	111.67
1	L5	13	GLU	CA-C-O	-5.94	114.42	120.71
2	P4	42	ILE	N-CA-C	-5.94	101.26	109.46
2	P7	42	ILE	N-CA-C	-5.94	101.26	109.46
1	EH	76	VAL	N-CA-C	-5.94	106.03	111.67
1	LK	13	GLU	CA-C-O	-5.94	114.42	120.71
2	PJ	42	ILE	N-CA-C	-5.94	101.26	109.46
2	PM	42	ILE	N-CA-C	-5.94	101.26	109.46
1	NC	45	TYR	CA-C-O	-5.94	114.09	120.92
1	E1	76	VAL	N-CA-C	-5.94	106.03	111.67
2	P6	42	ILE	N-CA-C	-5.94	101.27	109.46
1	AK	53	GLU	CA-C-O	-5.94	115.22	121.99
1	LW	13	GLU	CA-C-O	-5.94	114.42	120.71
2	PY	42	ILE	N-CA-C	-5.94	101.27	109.46
1	AU	53	GLU	CA-C-O	-5.94	115.22	121.99
1	Ll	13	GLU	CA-C-O	-5.94	114.42	120.71
1	Np	45	TYR	CA-C-O	-5.94	114.09	120.92
2	P0	55	SER	N-CA-C	5.94	119.06	110.28
2	PO	42	ILE	N-CA-C	-5.94	101.27	109.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Li	13	GLU	CA-C-O	-5.93	114.42	120.71
2	Pa	42	ILE	N-CA-C	-5.93	101.27	109.46
1	Lx	13	GLU	CA-C-O	-5.93	114.42	120.71
1	DY	77	ALA	N-CA-C	5.93	118.16	108.55
1	AA	53	GLU	CA-C-O	-5.93	115.23	121.99
2	PC	42	ILE	N-CA-C	-5.93	101.27	109.46
1	NJ	45	TYR	CA-C-O	-5.93	114.10	120.92
3	Xf	714	THR	CB-CA-C	5.93	120.39	109.71
1	Ew	76	VAL	N-CA-C	-5.93	106.03	111.67
1	Es	76	VAL	N-CA-C	-5.93	106.03	111.67
2	Ps	42	ILE	N-CA-C	-5.93	101.27	109.46
2	Pe	42	ILE	N-CA-C	-5.93	101.28	109.46
1	Aq	53	GLU	CA-C-O	-5.93	115.23	121.99
1	Ao	53	GLU	CA-C-O	-5.93	115.23	121.99
1	NI	45	TYR	CA-C-O	-5.93	114.10	120.92
1	EC	76	VAL	N-CA-C	-5.93	106.04	111.67
1	Ai	53	GLU	CA-C-O	-5.93	115.23	121.99
1	EI	76	VAL	N-CA-C	-5.93	106.04	111.67
1	E5	76	VAL	N-CA-C	-5.92	106.04	111.67
1	L1	13	GLU	CA-C-O	-5.92	114.43	120.71
1	AT	53	GLU	CA-C-O	-5.92	115.24	121.99
3	XQ	714	THR	CB-CA-C	5.92	120.38	109.71
1	EO	76	VAL	N-CA-C	-5.92	106.04	111.67
1	Aj	53	GLU	CA-C-O	-5.92	115.24	121.99
1	Db	30	ALA	N-CA-C	5.92	117.82	111.36
1	E8	76	VAL	N-CA-C	-5.92	106.04	111.67
1	EN	76	VAL	N-CA-C	-5.92	106.04	111.67
2	PU	42	ILE	CA-C-O	-5.92	116.03	121.72
3	Yb	723	LEU	N-CA-C	-5.92	105.36	113.30
1	Eg	76	VAL	N-CA-C	-5.92	106.04	111.67
1	Na	45	TYR	CA-C-O	-5.92	114.11	120.92
2	PU	55	SER	N-CA-C	5.92	119.04	110.28
1	Ax	53	GLU	CA-C-O	-5.92	115.24	121.99
1	Nn	45	TYR	CA-C-O	-5.92	114.11	120.92
1	AE	53	GLU	CA-C-O	-5.92	115.24	121.99
1	ND	45	TYR	CA-C-O	-5.92	114.11	120.92
1	Nr	45	TYR	CA-C-O	-5.92	114.11	120.92
1	A8	53	GLU	CA-C-O	-5.92	115.24	121.99
1	AN	53	GLU	CA-C-O	-5.92	115.24	121.99
1	EX	76	VAL	N-CA-C	-5.92	106.05	111.67
1	LX	13	GLU	CA-C-O	-5.92	114.44	120.71
1	Ac	53	GLU	CA-C-O	-5.92	115.24	121.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Xv	648	GLN	N-CA-C	5.92	117.53	111.14
1	NL	45	TYR	CA-C-O	-5.92	114.11	120.92
3	Yq	723	LEU	N-CA-C	-5.92	105.37	113.30
1	N3	45	TYR	CA-C-O	-5.92	114.12	120.92
1	NK	45	TYR	CA-C-O	-5.92	114.12	120.92
1	ER	76	VAL	N-CA-C	-5.91	106.05	111.67
2	Pd	42	ILE	N-CA-C	-5.91	101.30	109.46
2	P0	42	ILE	CA-C-O	-5.91	116.05	121.72
2	PF	42	ILE	CA-C-O	-5.91	116.05	121.72
1	A0	53	GLU	CA-C-O	-5.91	115.25	121.99
1	L8	13	GLU	CA-C-O	-5.91	114.44	120.71
1	AZ	53	GLU	CA-C-O	-5.91	115.25	121.99
1	NY	45	TYR	CA-C-O	-5.91	114.12	120.92
1	Ns	45	TYR	CA-C-O	-5.91	114.12	120.92
1	LN	13	GLU	CA-C-O	-5.91	114.44	120.71
1	L3	13	GLU	CA-C-O	-5.91	114.44	120.71
1	EZ	76	VAL	N-CA-C	-5.91	106.06	111.67
1	NX	45	TYR	CA-C-O	-5.91	114.12	120.92
1	Lp	13	GLU	CA-C-O	-5.91	114.45	120.71
2	Pp	42	ILE	N-CA-C	-5.91	101.31	109.46
1	Nk	45	TYR	CA-C-O	-5.91	114.13	120.92
1	A1	53	GLU	CA-C-O	-5.91	115.26	121.99
1	L0	13	GLU	CA-C-O	-5.91	114.45	120.71
1	N9	45	TYR	CA-C-O	-5.91	114.13	120.92
1	Eb	76	VAL	N-CA-C	-5.91	106.06	111.67
1	Eq	76	VAL	N-CA-C	-5.91	106.06	111.67
1	N8	45	TYR	CA-C-O	-5.90	114.13	120.92
1	NN	45	TYR	CA-C-O	-5.90	114.13	120.92
2	Pj	55	SER	N-CA-C	5.90	119.02	110.28
1	E7	76	VAL	N-CA-C	-5.90	106.06	111.67
1	EM	76	VAL	N-CA-C	-5.90	106.06	111.67
1	Dn	30	ALA	N-CA-C	5.90	117.71	111.28
1	A5	53	GLU	CA-C-O	-5.90	115.26	121.99
1	LI	13	GLU	CA-C-O	-5.90	114.46	120.71
1	Ni	45	TYR	CA-C-O	-5.90	114.14	120.92
1	Nx	45	TYR	CA-C-O	-5.90	114.14	120.92
1	A3	53	GLU	CA-C-O	-5.90	115.27	121.99
1	AI	53	GLU	CA-C-O	-5.90	115.27	121.99
1	D4	82	ALA	N-CA-C	5.90	117.71	111.28
1	A6	53	GLU	CA-C-O	-5.90	115.27	121.99
1	AS	53	GLU	CA-C-O	-5.90	115.27	121.99
1	AL	53	GLU	CA-C-O	-5.90	115.27	121.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ap	53	GLU	CA-C-O	-5.90	115.27	121.99
1	NA	45	TYR	CA-C-O	-5.89	114.14	120.92
1	Lg	13	GLU	CA-C-O	-5.89	114.47	120.71
1	AV	53	GLU	CA-C-O	-5.89	115.27	121.99
1	Ev	76	VAL	N-CA-C	-5.89	106.07	111.67
1	Ak	53	GLU	CA-C-O	-5.89	115.27	121.99
1	Nd	45	TYR	CA-C-O	-5.89	114.15	120.92
1	Df	55	GLY	CA-C-N	-5.89	112.78	120.44
1	Df	55	GLY	C-N-CA	-5.89	112.78	120.44
1	Ec	76	VAL	N-CA-C	-5.89	106.08	111.67
1	N1	45	TYR	CA-C-O	-5.89	114.15	120.92
1	NV	45	TYR	CA-C-O	-5.89	114.15	120.92
1	LC	13	GLU	CA-C-O	-5.88	114.47	120.71
1	NS	45	TYR	CA-C-O	-5.88	114.15	120.92
1	NM	45	TYR	CA-C-O	-5.88	114.15	120.92
1	NZ	45	TYR	CA-C-O	-5.88	114.15	120.92
1	Aw	53	GLU	CA-C-O	-5.88	115.28	121.99
1	Jv	30	ALA	N-CA-C	5.88	117.69	111.28
3	Xg	648	GLN	N-CA-C	5.88	117.49	111.14
1	Ab	53	GLU	CA-C-O	-5.88	115.29	121.99
1	LU	13	GLU	CA-C-O	-5.88	114.48	120.71
1	Lj	13	GLU	CA-C-O	-5.88	114.48	120.71
1	NP	45	TYR	CA-C-O	-5.88	114.16	120.92
1	It	10	GLY	CA-C-O	-5.88	115.82	121.11
1	DB	77	ALA	N-CA-C	5.88	118.22	108.99
1	N4	45	TYR	CA-C-O	-5.88	114.16	120.92
1	LR	13	GLU	CA-C-O	-5.88	114.48	120.71
1	NT	45	TYR	CA-C-O	-5.88	114.16	120.92
3	XR	648	GLN	N-CA-C	5.88	117.49	111.14
1	Nc	45	TYR	CA-C-O	-5.88	114.16	120.92
1	Aa	53	GLU	CA-C-O	-5.87	115.29	121.99
1	N5	45	TYR	CA-C-O	-5.87	114.17	120.92
1	Nt	45	TYR	CA-C-O	-5.87	114.17	120.92
1	Lc	13	GLU	CA-C-O	-5.87	114.49	120.71
1	Eo	76	VAL	N-CA-C	-5.87	106.09	111.67
1	NG	45	TYR	CA-C-O	-5.87	114.17	120.92
1	Nh	45	TYR	CA-C-O	-5.87	114.17	120.92
1	AX	53	GLU	CA-C-O	-5.86	115.31	121.99
1	Lv	74	GLY	N-CA-C	5.86	119.16	110.60
1	Nq	45	TYR	CA-C-O	-5.86	114.18	120.92
1	AG	53	GLU	CA-C-O	-5.86	115.31	121.99
1	Al	53	GLU	CA-C-O	-5.86	115.31	121.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AM	53	GLU	CA-C-O	-5.86	115.31	121.99
1	Ah	53	GLU	CA-C-O	-5.86	115.31	121.99
3	Xc	619	THR	N-CA-C	-5.86	101.73	110.23
3	XM	637	LEU	N-CA-C	5.86	117.67	111.28
1	AD	53	GLU	CA-C-O	-5.86	115.31	121.99
1	NH	45	TYR	CA-C-O	-5.86	114.18	120.92
1	Lg	74	GLY	N-CA-C	5.86	119.15	110.60
1	No	45	TYR	CA-C-O	-5.86	114.19	120.92
1	AY	53	GLU	CA-C-O	-5.86	115.31	121.99
1	Nb	45	TYR	CA-C-O	-5.86	114.19	120.92
1	Nw	45	TYR	CA-C-O	-5.86	114.19	120.92
1	An	53	GLU	CA-C-O	-5.86	115.31	121.99
1	Nj	45	TYR	CA-C-O	-5.86	114.19	120.92
1	MF	43	GLY	N-CA-C	-5.86	104.76	114.48
1	Er	76	VAL	N-CA-C	-5.85	106.11	111.67
1	Op	74	GLY	N-CA-C	5.85	120.54	112.52
1	N2	45	TYR	CA-C-O	-5.85	114.19	120.92
1	Ed	38	ARG	N-CA-C	-5.85	98.87	108.76
1	Lr	13	GLU	CA-C-O	-5.85	114.51	120.71
1	NE	45	TYR	CA-C-O	-5.85	114.19	120.92
1	N7	45	TYR	CA-C-O	-5.85	114.19	120.92
1	Lj	74	GLY	N-CA-C	5.85	119.14	110.60
1	L3	74	GLY	N-CA-C	5.85	119.14	110.60
1	E9	38	ARG	N-CA-C	-5.85	98.88	108.76
1	EO	38	ARG	N-CA-C	-5.85	98.88	108.76
1	Es	38	ARG	N-CA-C	-5.85	98.88	108.76
1	Dn	54	THR	N-CA-C	5.85	117.33	111.07
1	A7	53	GLU	CA-C-O	-5.85	115.32	121.99
3	XC	648	GLN	N-CA-C	5.85	117.45	111.14
1	LT	74	GLY	N-CA-C	5.84	119.13	110.60
1	NQ	45	TYR	CA-C-O	-5.84	114.20	120.92
1	AC	53	GLU	CA-C-O	-5.84	115.33	121.99
1	A2	53	GLU	CA-C-O	-5.84	115.33	121.99
1	AR	53	GLU	CA-C-O	-5.84	115.33	121.99
1	Ag	53	GLU	CA-C-O	-5.84	115.33	121.99
1	AW	53	GLU	CA-C-O	-5.84	115.33	121.99
1	Av	53	GLU	CA-C-O	-5.84	115.33	121.99
1	Ew	38	ARG	N-CA-C	-5.84	98.89	108.76
1	ED	38	ARG	N-CA-C	-5.84	98.89	108.76
1	ES	38	ARG	N-CA-C	-5.84	98.89	108.76
1	Af	53	GLU	CA-C-O	-5.84	115.33	121.99
1	Eh	38	ARG	N-CA-C	-5.84	98.89	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Am	53	GLU	CA-C-O	-5.84	115.33	121.99
1	A4	53	GLU	CA-C-O	-5.84	115.34	121.99
1	A9	53	GLU	CA-C-O	-5.84	115.34	121.99
1	Oa	74	GLY	N-CA-C	5.84	120.52	112.52
1	Au	53	GLU	CA-C-O	-5.84	115.34	121.99
1	As	53	GLU	CA-C-O	-5.84	115.34	121.99
1	DJ	74	GLY	N-CA-C	5.84	120.11	111.76
1	NB	45	TYR	CA-C-O	-5.83	114.21	120.92
1	Eo	38	ARG	N-CA-C	-5.83	98.90	108.76
3	Xq	724	ILE	N-CA-C	5.83	118.03	109.63
1	LI	74	GLY	N-CA-C	5.83	119.12	110.60
1	LC	74	GLY	N-CA-C	5.83	119.11	110.60
1	LR	74	GLY	N-CA-C	5.83	119.11	110.60
1	Lx	74	GLY	N-CA-C	5.83	119.11	110.60
1	Ep	38	ARG	N-CA-C	-5.83	98.90	108.76
1	Ne	45	TYR	CA-C-O	-5.83	114.22	120.92
1	Eb	38	ARG	N-CA-C	-5.83	98.91	108.76
1	LU	74	GLY	N-CA-C	5.83	119.11	110.60
1	Ea	38	ARG	N-CA-C	-5.83	98.91	108.76
1	AB	53	GLU	CA-C-O	-5.83	115.35	121.99
1	LE	74	GLY	N-CA-C	5.83	119.11	110.60
3	X2	635	GLN	N-CA-C	5.83	117.63	111.28
1	AQ	53	GLU	CA-C-O	-5.83	115.35	121.99
3	XH	635	GLN	N-CA-C	5.83	117.63	111.28
1	ET	38	ARG	N-CA-C	-5.82	98.92	108.76
1	AO	53	GLU	CA-C-O	-5.82	115.35	121.99
1	OW	74	GLY	N-CA-C	5.82	120.50	112.52
1	Eu	38	ARG	N-CA-C	-5.82	98.92	108.76
1	Ej	38	ARG	N-CA-C	-5.82	98.92	108.76
1	E4	38	ARG	N-CA-C	-5.82	98.92	108.76
1	L9	74	GLY	N-CA-C	5.82	119.10	110.60
1	EJ	38	ARG	N-CA-C	-5.82	98.92	108.76
1	LO	74	GLY	N-CA-C	5.82	119.10	110.60
1	Li	74	GLY	N-CA-C	5.82	119.10	110.60
1	DB	37	GLY	N-CA-C	5.82	119.25	110.75
1	NW	45	TYR	CA-C-O	-5.82	114.23	120.92
1	AJ	53	GLU	CA-C-O	-5.82	115.36	121.99
1	Ef	38	ARG	N-CA-C	-5.82	98.93	108.76
1	NU	45	TYR	CA-C-O	-5.82	114.23	120.92
1	EE	38	ARG	N-CA-C	-5.82	98.93	108.76
1	LL	74	GLY	N-CA-C	5.82	119.09	110.60
1	Ei	38	ARG	N-CA-C	-5.82	98.93	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	EY	38	ARG	N-CA-C	-5.82	98.93	108.76
1	Ex	38	ARG	N-CA-C	-5.82	98.93	108.76
1	En	38	ARG	N-CA-C	-5.82	98.93	108.76
1	Ol	74	GLY	N-CA-C	5.82	120.49	112.52
3	Xb	724	ILE	N-CA-C	5.82	118.00	109.63
1	E2	38	ARG	N-CA-C	-5.81	98.93	108.76
1	Eq	38	ARG	N-CA-C	-5.81	98.94	108.76
1	L1	74	GLY	N-CA-C	5.81	119.09	110.60
1	AH	53	GLU	CA-C-O	-5.81	115.36	121.99
1	Nu	45	TYR	CA-C-O	-5.81	114.24	120.92
1	Lp	74	GLY	N-CA-C	5.81	119.09	110.60
1	E6	38	ARG	N-CA-C	-5.81	98.94	108.76
1	EB	38	ARG	N-CA-C	-5.81	98.94	108.76
1	L0	74	GLY	N-CA-C	5.81	119.08	110.60
1	EP	38	ARG	N-CA-C	-5.81	98.94	108.76
1	EQ	38	ARG	N-CA-C	-5.81	98.94	108.76
1	EH	38	ARG	N-CA-C	-5.81	98.94	108.76
1	LF	74	GLY	N-CA-C	5.81	119.08	110.60
1	EW	38	ARG	N-CA-C	-5.81	98.94	108.76
1	EZ	38	ARG	N-CA-C	-5.81	98.94	108.76
3	Xl	635	GLN	N-CA-C	5.81	117.61	111.28
1	LD	74	GLY	N-CA-C	5.81	119.08	110.60
1	E5	38	ARG	N-CA-C	-5.81	98.94	108.76
1	LS	74	GLY	N-CA-C	5.81	119.08	110.60
1	Lw	74	GLY	N-CA-C	5.81	119.08	110.60
1	L5	74	GLY	N-CA-C	5.81	119.08	110.60
1	LK	74	GLY	N-CA-C	5.81	119.08	110.60
1	Lo	74	GLY	N-CA-C	5.81	119.08	110.60
1	L6	74	GLY	N-CA-C	5.80	119.08	110.60
1	N0	45	TYR	CA-C-O	-5.80	114.25	120.92
1	NF	45	TYR	CA-C-O	-5.80	114.25	120.92
1	Gw	78	ALA	CA-C-O	-5.80	113.12	120.20
1	L4	74	GLY	N-CA-C	5.80	119.07	110.60
1	E7	38	ARG	N-CA-C	-5.80	98.95	108.76
1	LJ	74	GLY	N-CA-C	5.80	119.07	110.60
1	Ld	74	GLY	N-CA-C	5.80	119.07	110.60
1	Lk	74	GLY	N-CA-C	5.80	119.07	110.60
1	E1	38	ARG	N-CA-C	-5.80	98.95	108.76
1	E0	38	ARG	N-CA-C	-5.80	98.96	108.76
1	LX	74	GLY	N-CA-C	5.80	119.07	110.60
1	Ev	38	ARG	N-CA-C	-5.80	98.95	108.76
1	Ek	38	ARG	N-CA-C	-5.80	98.95	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ll	74	GLY	N-CA-C	5.80	119.07	110.60
1	Nl	45	TYR	CA-C-O	-5.80	114.25	120.92
1	LV	74	GLY	N-CA-C	5.80	119.07	110.60
1	EU	38	ARG	N-CA-C	-5.80	98.96	108.76
1	ER	38	ARG	N-CA-C	-5.80	98.96	108.76
1	LZ	74	GLY	N-CA-C	5.80	119.06	110.60
1	OX	74	GLY	N-CA-C	5.80	120.46	112.52
1	Ns	42	GLY	CA-C-O	-5.80	117.20	122.24
1	Oj	74	GLY	N-CA-C	5.80	120.46	112.52
1	Dw	7	ILE	N-CA-C	5.80	116.53	110.62
1	El	38	ARG	N-CA-C	-5.80	98.96	108.76
1	Om	74	GLY	N-CA-C	5.80	120.46	112.52
1	Ox	74	GLY	N-CA-C	5.80	120.46	112.52
1	Ln	74	GLY	N-CA-C	5.80	119.06	110.60
1	LM	74	GLY	N-CA-C	5.80	119.06	110.60
1	Lt	74	GLY	N-CA-C	5.79	119.06	110.60
1	L8	74	GLY	N-CA-C	5.79	119.06	110.60
1	EK	38	ARG	N-CA-C	-5.79	98.97	108.76
1	OG	74	GLY	N-CA-C	5.79	120.46	112.52
1	EN	38	ARG	N-CA-C	-5.79	98.97	108.76
1	Lr	74	GLY	N-CA-C	5.79	119.06	110.60
3	X7	724	ILE	N-CA-C	5.79	117.97	109.63
1	EI	38	ARG	N-CA-C	-5.79	98.97	108.76
1	LN	74	GLY	N-CA-C	5.79	119.06	110.60
1	EA	38	ARG	N-CA-C	-5.79	98.97	108.76
1	E8	38	ARG	N-CA-C	-5.79	98.97	108.76
1	O8	74	GLY	N-CA-C	5.79	120.45	112.52
1	ON	74	GLY	N-CA-C	5.79	120.45	112.52
1	Nf	45	TYR	CA-C-O	-5.79	114.26	120.92
1	La	74	GLY	N-CA-C	5.79	119.06	110.60
1	Gh	78	ALA	CA-C-O	-5.79	113.14	120.20
1	Lc	74	GLY	N-CA-C	5.79	119.05	110.60
1	Ls	74	GLY	N-CA-C	5.79	119.05	110.60
3	XM	724	ILE	N-CA-C	5.79	117.97	109.63
1	OL	74	GLY	N-CA-C	5.79	120.45	112.52
1	EV	38	ARG	N-CA-C	-5.79	98.98	108.76
1	LW	74	GLY	N-CA-C	5.79	119.05	110.60
1	E3	38	ARG	N-CA-C	-5.79	98.98	108.76
1	Le	74	GLY	N-CA-C	5.79	119.05	110.60
1	Fw	10	GLY	CA-C-O	-5.79	115.90	121.11
1	Df	57	VAL	CA-C-N	-5.79	111.30	122.06
1	Df	57	VAL	C-N-CA	-5.79	111.30	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	LA	74	GLY	N-CA-C	5.79	119.05	110.60
1	LP	74	GLY	N-CA-C	5.79	119.05	110.60
1	OM	74	GLY	N-CA-C	5.79	120.45	112.52
1	Lh	74	GLY	N-CA-C	5.79	119.05	110.60
1	OV	74	GLY	N-CA-C	5.79	120.45	112.52
1	Od	74	GLY	N-CA-C	5.79	120.45	112.52
1	EM	38	ARG	N-CA-C	-5.78	98.99	108.76
1	Ee	38	ARG	N-CA-C	-5.78	98.99	108.76
1	Oo	74	GLY	N-CA-C	5.78	120.44	112.52
1	D7	96	PRO	N-CA-C	-5.78	105.49	113.53
1	EG	38	ARG	N-CA-C	-5.78	98.99	108.76
1	Eg	38	ARG	N-CA-C	-5.78	98.99	108.76
1	Oh	74	GLY	N-CA-C	5.78	120.44	112.52
1	Ow	74	GLY	N-CA-C	5.78	120.44	112.52
1	Ok	74	GLY	N-CA-C	5.78	120.44	112.52
1	EX	38	ARG	N-CA-C	-5.78	98.99	108.76
1	L2	74	GLY	N-CA-C	5.78	119.03	110.60
1	GJ	78	ALA	CA-C-O	-5.78	113.15	120.20
1	LH	74	GLY	N-CA-C	5.78	119.03	110.60
1	OK	74	GLY	N-CA-C	5.78	120.44	112.52
1	Lb	74	GLY	N-CA-C	5.78	119.04	110.60
1	EC	38	ARG	N-CA-C	-5.78	99.00	108.76
1	O2	74	GLY	N-CA-C	5.78	120.43	112.52
1	Lf	74	GLY	N-CA-C	5.78	119.03	110.60
1	Oe	74	GLY	N-CA-C	5.78	120.43	112.52
1	Er	38	ARG	N-CA-C	-5.78	99.00	108.76
1	Gp	78	ALA	CA-C-O	-5.77	113.16	120.20
1	GD	78	ALA	CA-C-O	-5.77	113.16	120.20
1	OA	74	GLY	N-CA-C	5.77	120.43	112.52
1	O1	74	GLY	N-CA-C	5.77	120.43	112.52
1	O6	74	GLY	N-CA-C	5.77	120.43	112.52
1	GS	78	ALA	CA-C-O	-5.77	113.16	120.20
1	OP	74	GLY	N-CA-C	5.77	120.43	112.52
1	LY	74	GLY	N-CA-C	5.77	119.03	110.60
1	Ad	53	GLU	CA-C-O	-5.77	115.41	121.99
1	Oq	74	GLY	N-CA-C	5.77	120.43	112.52
1	Em	38	ARG	N-CA-C	-5.77	99.00	108.76
1	L7	74	GLY	N-CA-C	5.77	119.03	110.60
1	Lq	74	GLY	N-CA-C	5.77	119.03	110.60
1	Gt	78	ALA	CA-C-O	-5.77	113.16	120.20
1	LG	74	GLY	N-CA-C	5.77	119.02	110.60
3	Xh	621	VAL	N-CA-C	-5.77	106.17	112.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Db	37	GLY	N-CA-C	5.77	121.52	111.14
1	Oi	74	GLY	N-CA-C	5.77	120.42	112.52
1	O7	74	GLY	N-CA-C	5.76	120.42	112.52
3	XW	635	GLN	N-CA-C	5.76	117.56	111.28
1	OB	74	GLY	N-CA-C	5.76	120.41	112.52
1	OD	74	GLY	N-CA-C	5.76	120.41	112.52
1	O3	74	GLY	N-CA-C	5.76	120.42	112.52
1	OS	74	GLY	N-CA-C	5.76	120.41	112.52
1	GX	78	ALA	CA-C-O	-5.76	113.17	120.20
1	Oc	74	GLY	N-CA-C	5.76	120.41	112.52
1	Ov	74	GLY	N-CA-C	5.76	120.41	112.52
1	OI	74	GLY	N-CA-C	5.76	120.42	112.52
1	Ec	38	ARG	N-CA-C	-5.76	99.03	108.76
1	Nd	42	GLY	CA-C-O	-5.76	117.23	122.24
1	Df	58	ASN	CA-C-N	-5.76	112.56	120.28
1	Df	58	ASN	C-N-CA	-5.76	112.56	120.28
1	OJ	74	GLY	N-CA-C	5.76	120.41	112.52
1	LB	74	GLY	N-CA-C	5.76	119.01	110.60
1	OH	74	GLY	N-CA-C	5.76	120.41	112.52
1	Et	38	ARG	N-CA-C	-5.76	99.03	108.76
1	OO	74	GLY	N-CA-C	5.75	120.40	112.52
1	Gc	78	ALA	CA-C-O	-5.75	113.18	120.20
1	Gr	78	ALA	CA-C-O	-5.75	113.18	120.20
3	X3	633	GLY	N-CA-C	5.75	122.79	114.10
1	OU	74	GLY	N-CA-C	5.75	120.40	112.52
1	Or	74	GLY	N-CA-C	5.75	120.40	112.52
1	Dh	58	ASN	CA-C-N	-5.75	112.57	120.28
1	Dh	58	ASN	C-N-CA	-5.75	112.57	120.28
1	Dq	37	GLY	N-CA-C	5.75	121.49	111.14
1	O5	74	GLY	N-CA-C	5.75	120.40	112.52
1	Og	74	GLY	N-CA-C	5.75	120.40	112.52
1	OZ	74	GLY	N-CA-C	5.75	120.40	112.52
1	Gd	71	VAL	N-CA-CB	5.75	116.99	110.72
1	Lu	74	GLY	N-CA-C	5.75	118.99	110.60
3	Xr	624	SER	N-CA-C	-5.75	100.42	109.50
3	X3	650	GLY	N-CA-C	-5.75	102.36	112.77
1	O4	74	GLY	N-CA-C	5.75	120.39	112.52
1	Gk	78	ALA	CA-C-O	-5.75	113.19	120.20
1	Df	18	VAL	N-CA-C	-5.75	105.45	112.35
1	DF	7	ILE	N-CA-C	5.75	116.48	110.62
1	Ge	78	ALA	CA-C-O	-5.75	113.19	120.20
1	OQ	74	GLY	N-CA-C	5.74	120.39	112.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	OY	74	GLY	N-CA-C	5.74	120.39	112.52
1	Ou	74	GLY	N-CA-C	5.74	120.39	112.52
3	XJ	720	ALA	N-CA-C	5.74	119.31	111.39
1	O9	74	GLY	N-CA-C	5.74	120.39	112.52
1	Os	74	GLY	N-CA-C	5.74	120.39	112.52
1	Dw	18	VAL	CA-C-N	-5.74	112.68	119.05
1	Dw	18	VAL	C-N-CA	-5.74	112.68	119.05
1	G4	78	ALA	CA-C-O	-5.74	113.20	120.20
1	NO	42	GLY	CA-C-O	-5.74	117.25	122.24
1	Ob	74	GLY	N-CA-C	5.74	120.38	112.52
1	On	74	GLY	N-CA-C	5.74	120.38	112.52
1	GA	78	ALA	CA-C-O	-5.74	113.20	120.20
1	Gm	78	ALA	CA-C-O	-5.74	113.20	120.20
1	LQ	74	GLY	N-CA-C	5.74	118.97	110.60
1	GY	78	ALA	CA-C-O	-5.74	113.20	120.20
1	Ot	74	GLY	N-CA-C	5.74	120.38	112.52
1	Gn	78	ALA	CA-C-O	-5.74	113.20	120.20
1	Fh	10	GLY	CA-C-O	-5.74	115.95	121.11
1	Of	74	GLY	N-CA-C	5.73	120.38	112.52
1	DT	18	VAL	N-CA-C	-5.73	105.47	112.35
1	Ga	78	ALA	CA-C-O	-5.73	113.21	120.20
1	KC	78	ALA	CA-C-O	-5.73	114.17	120.36
1	G5	78	ALA	CA-C-O	-5.73	113.21	120.20
1	KR	78	ALA	CA-C-O	-5.73	114.17	120.36
1	Dg	18	VAL	N-CA-C	-5.73	105.47	112.35
1	GV	78	ALA	CA-C-O	-5.73	113.21	120.20
1	GZ	78	ALA	CA-C-O	-5.73	113.21	120.20
3	XV	627	VAL	N-CA-C	5.73	116.46	109.30
1	Hw	45	TYR	CA-C-O	-5.73	114.18	120.43
1	OC	74	GLY	N-CA-C	5.73	120.37	112.52
1	K1	78	ALA	CA-C-O	-5.73	114.17	120.36
1	Gp	71	VAL	N-CA-CB	5.73	116.97	110.72
1	D2	18	VAL	N-CA-C	-5.73	105.48	112.35
1	DQ	18	VAL	N-CA-C	-5.73	105.48	112.35
1	OT	74	GLY	N-CA-C	5.73	120.37	112.52
1	GN	78	ALA	CA-C-O	-5.73	113.21	120.20
1	DW	18	VAL	N-CA-C	-5.73	105.48	112.35
1	Dd	18	VAL	N-CA-C	-5.73	105.48	112.35
2	PU	42	ILE	N-CA-C	-5.73	101.16	109.29
1	Ds	18	VAL	N-CA-C	-5.73	105.48	112.35
1	DM	18	VAL	N-CA-C	-5.73	105.48	112.35
1	Df	67	ALA	N-CA-C	5.73	117.52	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Kg	78	ALA	CA-C-O	-5.73	114.18	120.36
1	Fs	10	GLY	CA-C-O	-5.73	115.96	121.11
1	O0	74	GLY	N-CA-C	5.72	120.36	112.52
1	KK	78	ALA	CA-C-O	-5.72	114.18	120.36
1	OF	74	GLY	N-CA-C	5.72	120.36	112.52
1	Dv	18	VAL	N-CA-C	-5.72	105.48	112.35
1	Do	18	VAL	N-CA-C	-5.72	105.48	112.35
1	FD	10	GLY	CA-C-O	-5.72	115.96	121.11
1	Di	18	VAL	N-CA-C	-5.72	105.48	112.35
1	G9	71	VAL	N-CA-CB	5.72	116.96	110.72
1	No	42	GLY	CA-C-O	-5.72	117.26	122.24
3	XA	725	THR	N-CA-C	-5.72	99.69	109.24
1	Gv	78	ALA	CA-C-O	-5.72	113.22	120.20
3	X4	720	ALA	N-CA-C	5.72	119.28	111.39
1	G1	78	ALA	CA-C-O	-5.72	113.22	120.20
1	G6	78	ALA	CA-C-O	-5.72	113.22	120.20
1	GT	78	ALA	CA-C-O	-5.72	113.22	120.20
3	Yg	808	GLY	N-CA-C	5.72	117.87	112.04
3	X8	619	THR	N-CA-C	-5.72	101.94	110.23
1	Db	18	VAL	CA-C-N	-5.72	112.70	119.05
1	Db	18	VAL	C-N-CA	-5.72	112.70	119.05
1	DC	18	VAL	N-CA-C	-5.72	105.49	112.35
1	GR	78	ALA	CA-C-O	-5.72	113.23	120.20
1	DK	18	VAL	N-CA-C	-5.72	105.49	112.35
1	DO	18	VAL	N-CA-C	-5.72	105.49	112.35
1	Du	18	VAL	N-CA-C	-5.72	105.49	112.35
1	Gs	71	VAL	N-CA-CB	5.72	116.95	110.72
3	Xw	714	THR	CA-C-O	-5.72	114.64	121.56
1	DR	18	VAL	N-CA-C	-5.72	105.49	112.35
1	KE	78	ALA	CA-C-O	-5.71	114.19	120.36
1	D5	18	VAL	N-CA-C	-5.71	105.49	112.35
1	N9	42	GLY	CA-C-O	-5.71	117.27	122.24
1	GL	78	ALA	CA-C-O	-5.71	113.23	120.20
1	NF	42	GLY	CA-C-O	-5.71	117.27	122.24
1	Bo	73	ASP	CB-CA-C	5.71	120.30	110.01
1	Gm	71	VAL	N-CA-CB	5.71	116.95	110.72
2	Ps	27	VAL	CA-C-O	-5.71	116.04	121.64
2	Pj	42	ILE	N-CA-C	-5.71	101.17	109.29
3	XS	714	THR	CA-C-O	-5.71	114.64	121.56
1	GP	78	ALA	CA-C-O	-5.71	113.23	120.20
1	De	18	VAL	N-CA-C	-5.71	105.50	112.35
1	G8	78	ALA	CA-C-O	-5.71	113.23	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GI	78	ALA	CA-C-O	-5.71	113.23	120.20
3	XP	725	THR	N-CA-C	-5.71	99.70	109.24
1	BZ	73	ASP	CB-CA-C	5.71	120.29	110.01
3	XD	714	THR	CA-C-O	-5.71	114.65	121.56
1	GE	78	ALA	CA-C-O	-5.71	113.24	120.20
1	NE	42	GLY	CA-C-O	-5.71	117.27	122.24
1	OE	74	GLY	N-CA-C	5.71	120.34	112.52
1	G3	78	ALA	CA-C-O	-5.71	113.24	120.20
1	G9	78	ALA	CA-C-O	-5.71	113.23	120.20
3	XQ	714	THR	CA-C-O	-5.71	114.65	121.56
1	Gs	78	ALA	CA-C-O	-5.71	113.23	120.20
3	Xh	714	THR	CA-C-O	-5.71	114.65	121.56
1	D1	18	VAL	N-CA-C	-5.71	105.50	112.35
1	B0	73	ASP	CB-CA-C	5.71	120.28	110.01
2	P0	42	ILE	N-CA-C	-5.71	101.19	109.29
1	DG	18	VAL	N-CA-C	-5.71	105.50	112.35
1	BF	73	ASP	CB-CA-C	5.71	120.28	110.01
2	PF	42	ILE	N-CA-C	-5.71	101.19	109.29
1	Bk	73	ASP	CB-CA-C	5.71	120.28	110.01
1	Dk	18	VAL	N-CA-C	-5.71	105.50	112.35
3	Xk	627	VAL	N-CA-C	5.71	116.43	109.30
1	Bj	73	ASP	CB-CA-C	5.71	120.28	110.01
3	Yr	808	GLY	N-CA-C	5.71	117.86	112.04
1	DP	18	VAL	N-CA-C	-5.71	105.50	112.35
3	YI	808	GLY	N-CA-C	5.71	117.86	112.04
1	BV	73	ASP	CB-CA-C	5.71	120.28	110.01
1	N6	42	GLY	CA-C-O	-5.70	117.28	122.24
1	GK	78	ALA	CA-C-O	-5.70	113.24	120.20
1	Go	78	ALA	CA-C-O	-5.70	113.24	120.20
1	KT	78	ALA	CA-C-O	-5.70	114.20	120.36
1	Kv	78	ALA	CA-C-O	-5.70	114.20	120.36
1	Dh	34	ARG	N-CA-C	-5.70	102.46	110.50
1	DU	18	VAL	N-CA-C	-5.70	105.51	112.35
1	DE	18	VAL	N-CA-C	-5.70	105.51	112.35
1	GO	78	ALA	CA-C-O	-5.70	113.25	120.20
1	Hn	45	TYR	CA-C-O	-5.70	114.22	120.43
1	Dp	18	VAL	N-CA-C	-5.70	105.51	112.35
1	OR	74	GLY	N-CA-C	5.70	120.33	112.52
3	YP	808	GLY	N-CA-C	5.70	117.85	112.04
3	Xf	714	THR	CA-C-O	-5.70	114.67	121.56
1	NY	42	GLY	CA-C-O	-5.70	117.28	122.24
3	Xu	714	THR	CA-C-O	-5.70	114.67	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Bl	73	ASP	CB-CA-C	5.70	120.27	110.01
1	Np	42	GLY	CA-C-O	-5.70	117.28	122.24
1	D0	18	VAL	N-CA-C	-5.70	105.51	112.35
1	FG	10	GLY	CA-C-O	-5.70	115.98	121.11
1	KL	78	ALA	CA-C-O	-5.70	114.21	120.36
1	Ki	78	ALA	CA-C-O	-5.70	114.21	120.36
1	KZ	78	ALA	CA-C-O	-5.70	114.21	120.36
1	Ka	78	ALA	CA-C-O	-5.70	114.21	120.36
1	Kp	78	ALA	CA-C-O	-5.70	114.21	120.36
1	B5	73	ASP	CB-CA-C	5.70	120.26	110.01
1	D9	18	VAL	N-CA-C	-5.70	105.52	112.35
1	GO	71	VAL	N-CA-CB	5.70	116.93	110.72
1	Hi	45	TYR	CA-C-O	-5.70	114.22	120.43
1	DZ	18	VAL	N-CA-C	-5.70	105.52	112.35
1	NV	42	GLY	CA-C-O	-5.70	117.28	122.24
1	Bx	73	ASP	CB-CA-C	5.70	120.26	110.01
1	Hx	45	TYR	CA-C-O	-5.70	114.22	120.43
1	Dl	18	VAL	N-CA-C	-5.70	105.52	112.35
1	K5	78	ALA	CA-C-O	-5.69	114.21	120.36
1	GG	71	VAL	N-CA-CB	5.69	116.93	110.72
1	BU	73	ASP	CB-CA-C	5.69	120.26	110.01
1	Nl	42	GLY	CA-C-O	-5.69	117.29	122.24
1	F9	10	GLY	CA-C-O	-5.69	115.99	121.11
1	FO	10	GLY	CA-C-O	-5.69	115.99	121.11
1	Gi	78	ALA	CA-C-O	-5.69	113.25	120.20
3	YX	808	GLY	N-CA-C	5.69	117.85	112.04
1	Dx	18	VAL	N-CA-C	-5.69	105.52	112.35
1	Gu	82	ALA	N-CA-C	5.69	117.56	111.36
1	Gx	78	ALA	CA-C-O	-5.69	113.25	120.20
3	Ym	808	GLY	N-CA-C	5.69	117.85	112.04
3	Xn	720	ALA	N-CA-C	5.69	119.25	111.39
1	D6	18	VAL	N-CA-C	-5.69	105.52	112.35
1	GC	78	ALA	CA-C-O	-5.69	113.26	120.20
1	HD	45	TYR	CA-C-O	-5.69	114.23	120.43
1	F4	10	GLY	CA-C-O	-5.69	115.99	121.11
1	HS	45	TYR	CA-C-O	-5.69	114.23	120.43
1	HT	45	TYR	CA-C-O	-5.69	114.23	120.43
1	FJ	10	GLY	CA-C-O	-5.69	115.99	121.11
1	NK	42	GLY	CA-C-O	-5.69	117.29	122.24
3	XG	627	VAL	N-CA-C	5.69	116.41	109.30
1	HM	45	TYR	CA-C-O	-5.69	114.23	120.43
1	GY	71	VAL	N-CA-CB	5.69	116.92	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	NW	42	GLY	CA-C-O	-5.69	117.29	122.24
1	NZ	42	GLY	CA-C-O	-5.69	117.29	122.24
1	Da	18	VAL	N-CA-C	-5.69	105.52	112.35
1	Fd	10	GLY	CA-C-O	-5.69	115.99	121.11
1	Bu	73	ASP	CB-CA-C	5.69	120.25	110.01
1	DA	18	VAL	N-CA-C	-5.69	105.52	112.35
1	FS	10	GLY	CA-C-O	-5.69	115.99	121.11
1	Dt	18	VAL	N-CA-C	-5.69	105.52	112.35
2	PA	55	SER	N-CA-C	5.69	116.42	108.00
3	YR	808	GLY	N-CA-C	5.69	117.84	112.04
1	BK	73	ASP	CB-CA-C	5.69	120.25	110.01
1	KG	78	ALA	CA-C-O	-5.69	114.22	120.36
1	Ke	78	ALA	CA-C-O	-5.69	114.22	120.36
1	Ng	42	GLY	CA-C-O	-5.69	117.29	122.24
1	HV	45	TYR	CA-C-O	-5.69	114.23	120.43
1	KW	78	ALA	CA-C-O	-5.69	114.22	120.36
1	Gb	71	VAL	N-CA-CB	5.69	116.92	110.72
1	Nv	42	GLY	CA-C-O	-5.69	117.29	122.24
1	Hk	45	TYR	CA-C-O	-5.69	114.23	120.43
3	Yk	808	GLY	N-CA-C	5.69	117.84	112.04
1	Br	73	ASP	CB-CA-C	5.69	120.25	110.01
1	HR	45	TYR	CA-C-O	-5.69	114.23	120.43
1	DL	18	VAL	N-CA-C	-5.69	105.53	112.35
1	HN	45	TYR	CA-C-O	-5.69	114.23	120.43
3	YW	808	GLY	N-CA-C	5.69	117.84	112.04
3	Yc	808	GLY	N-CA-C	5.69	117.84	112.04
1	Hr	45	TYR	CA-C-O	-5.69	114.23	120.43
3	X1	627	VAL	N-CA-C	5.68	116.41	109.30
1	NQ	42	GLY	CA-C-O	-5.68	117.29	122.24
1	Gg	78	ALA	CA-C-O	-5.68	113.27	120.20
1	He	45	TYR	CA-C-O	-5.68	114.23	120.43
1	Hh	45	TYR	CA-C-O	-5.68	114.23	120.43
1	HY	45	TYR	CA-C-O	-5.68	114.23	120.43
1	Gd	78	ALA	CA-C-O	-5.68	113.26	120.20
2	Pd	27	VAL	CA-C-O	-5.68	116.07	121.64
1	Ht	45	TYR	CA-C-O	-5.68	114.23	120.43
1	Hq	45	TYR	CA-C-O	-5.68	114.23	120.43
1	FY	10	GLY	CA-C-O	-5.68	115.99	121.11
1	GA	71	VAL	N-CA-CB	5.68	116.91	110.72
1	GD	71	VAL	N-CA-CB	5.68	116.91	110.72
1	ND	42	GLY	CA-C-O	-5.68	117.30	122.24
3	YC	808	GLY	N-CA-C	5.68	117.84	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N4	42	GLY	CA-C-O	-5.68	117.30	122.24
1	B6	73	ASP	CB-CA-C	5.68	120.24	110.01
1	G6	71	VAL	N-CA-CB	5.68	116.92	110.72
1	FR	10	GLY	CA-C-O	-5.68	116.00	121.11
1	GP	71	VAL	N-CA-CB	5.68	116.91	110.72
1	GS	71	VAL	N-CA-CB	5.68	116.91	110.72
1	NJ	42	GLY	CA-C-O	-5.68	117.30	122.24
1	Gf	82	ALA	N-CA-C	5.68	117.55	111.36
3	Yh	808	GLY	N-CA-C	5.68	117.84	112.04
1	DV	18	VAL	N-CA-C	-5.68	105.53	112.35
1	Ga	71	VAL	N-CA-CB	5.68	116.91	110.72
3	Yv	808	GLY	N-CA-C	5.68	117.84	112.04
1	Gn	71	VAL	N-CA-CB	5.68	116.91	110.72
1	Nn	42	GLY	CA-C-O	-5.68	117.30	122.24
1	NS	42	GLY	CA-C-O	-5.68	117.30	122.24
1	GI	71	VAL	N-CA-CB	5.68	116.91	110.72
1	Dj	18	VAL	N-CA-C	-5.68	105.53	112.35
1	N5	42	GLY	CA-C-O	-5.68	117.30	122.24
3	Y8	808	GLY	N-CA-C	5.68	117.83	112.04
1	GG	78	ALA	CA-C-O	-5.68	113.27	120.20
1	Kh	78	ALA	CA-C-O	-5.68	114.23	120.36
3	Xe	725	THR	N-CA-C	-5.68	99.76	109.24
1	Ba	73	ASP	CB-CA-C	5.68	120.23	110.01
1	Bt	73	ASP	CB-CA-C	5.68	120.23	110.01
1	Bp	73	ASP	CB-CA-C	5.68	120.23	110.01
1	Nj	42	GLY	CA-C-O	-5.68	117.30	122.24
1	D3	18	VAL	N-CA-C	-5.68	105.54	112.35
1	BL	73	ASP	CB-CA-C	5.68	120.23	110.01
1	DI	18	VAL	N-CA-C	-5.68	105.54	112.35
1	BA	73	ASP	CB-CA-C	5.68	120.23	110.01
3	XB	714	THR	CA-C-O	-5.68	114.69	121.56
1	G4	71	VAL	N-CA-CB	5.68	116.91	110.72
1	BP	73	ASP	CB-CA-C	5.68	120.23	110.01
1	KQ	78	ALA	CA-C-O	-5.68	114.23	120.36
1	KJ	78	ALA	CA-C-O	-5.68	114.23	120.36
1	Bh	73	ASP	CB-CA-C	5.68	120.23	110.01
1	Bi	73	ASP	CB-CA-C	5.68	120.23	110.01
1	DX	18	VAL	N-CA-C	-5.68	105.54	112.35
1	FZ	10	GLY	CA-C-O	-5.68	116.00	121.11
1	Na	42	GLY	CA-C-O	-5.68	117.30	122.24
1	Gl	82	ALA	N-CA-C	5.68	117.55	111.36
3	XY	720	ALA	N-CA-C	5.68	119.22	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B1	73	ASP	CB-CA-C	5.67	120.23	110.01
1	B3	73	ASP	CB-CA-C	5.67	120.22	110.01
1	BH	73	ASP	CB-CA-C	5.67	120.22	110.01
1	BI	73	ASP	CB-CA-C	5.67	120.22	110.01
1	GJ	71	VAL	N-CA-CB	5.67	116.91	110.72
1	HJ	45	TYR	CA-C-O	-5.67	114.25	120.43
1	NG	42	GLY	CA-C-O	-5.67	117.30	122.24
1	Bb	73	ASP	CB-CA-C	5.67	120.22	110.01
1	Gc	71	VAL	N-CA-CB	5.67	116.91	110.72
1	NU	42	GLY	CA-C-O	-5.67	117.30	122.24
1	Bq	73	ASP	CB-CA-C	5.67	120.22	110.01
1	Gq	71	VAL	N-CA-CB	5.67	116.91	110.72
1	Gr	71	VAL	N-CA-CB	5.67	116.91	110.72
1	BB	73	ASP	CB-CA-C	5.67	120.22	110.01
1	D8	18	VAL	N-CA-C	-5.67	105.54	112.35
1	G8	71	VAL	N-CA-CB	5.67	116.90	110.72
1	H9	45	TYR	CA-C-O	-5.67	114.25	120.43
1	K6	78	ALA	CA-C-O	-5.67	114.23	120.36
1	GN	71	VAL	N-CA-CB	5.67	116.90	110.72
3	Xt	725	THR	N-CA-C	-5.67	99.77	109.24
1	FL	10	GLY	CA-C-O	-5.67	116.00	121.11
3	XI	650	GLY	N-CA-C	-5.67	105.94	112.29
1	NB	42	GLY	CA-C-O	-5.67	117.31	122.24
1	K7	78	ALA	CA-C-O	-5.67	114.23	120.36
1	N0	42	GLY	CA-C-O	-5.67	117.31	122.24
3	Y7	808	GLY	N-CA-C	5.67	117.82	112.04
1	FT	10	GLY	CA-C-O	-5.67	116.00	121.11
2	PP	55	SER	N-CA-C	5.67	116.39	108.00
1	BG	73	ASP	CB-CA-C	5.67	120.22	110.01
1	KM	78	ALA	CA-C-O	-5.67	114.23	120.36
3	YN	808	GLY	N-CA-C	5.67	117.83	112.04
1	Nf	42	GLY	CA-C-O	-5.67	117.31	122.24
1	BW	73	ASP	CB-CA-C	5.67	120.22	110.01
1	Hd	45	TYR	CA-C-O	-5.67	114.25	120.43
1	Fk	10	GLY	CA-C-O	-5.67	116.01	121.11
1	Hm	45	TYR	CA-C-O	-5.67	114.25	120.43
1	Hs	45	TYR	CA-C-O	-5.67	114.25	120.43
1	G2	82	ALA	N-CA-C	5.67	117.54	111.36
1	KV	78	ALA	CA-C-O	-5.67	114.24	120.36
1	Kt	78	ALA	CA-C-O	-5.67	114.24	120.36
1	G5	71	VAL	N-CA-CB	5.67	116.90	110.72
1	K3	78	ALA	CA-C-O	-5.67	114.24	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Y5	808	GLY	N-CA-C	5.67	117.82	112.04
1	F7	10	GLY	CA-C-O	-5.67	116.01	121.11
1	H8	45	TYR	CA-C-O	-5.67	114.25	120.43
1	BQ	73	ASP	CB-CA-C	5.67	120.21	110.01
3	XR	714	THR	CA-C-O	-5.67	114.70	121.56
3	YK	808	GLY	N-CA-C	5.67	117.82	112.04
1	BX	73	ASP	CB-CA-C	5.67	120.22	110.01
1	GX	71	VAL	N-CA-CB	5.67	116.90	110.72
3	Yt	808	GLY	N-CA-C	5.67	117.82	112.04
1	Bm	73	ASP	CB-CA-C	5.67	120.22	110.01
1	G1	71	VAL	N-CA-CB	5.67	116.90	110.72
3	Y2	808	GLY	N-CA-C	5.67	117.82	112.04
1	B9	73	ASP	CB-CA-C	5.67	120.21	110.01
3	YJ	708	ALA	CA-C-N	-5.67	113.71	119.83
3	YJ	708	ALA	C-N-CA	-5.67	113.71	119.83
1	BM	73	ASP	CB-CA-C	5.67	120.21	110.01
1	BN	73	ASP	CB-CA-C	5.67	120.21	110.01
1	DN	18	VAL	N-CA-C	-5.67	105.55	112.35
1	Bc	73	ASP	CB-CA-C	5.67	120.21	110.01
1	Bv	73	ASP	CB-CA-C	5.67	120.21	110.01
3	Yx	808	GLY	N-CA-C	5.67	117.82	112.04
3	Yq	808	GLY	N-CA-C	5.67	117.82	112.04
1	Gb	78	ALA	CA-C-O	-5.67	113.29	120.20
1	NL	42	GLY	CA-C-O	-5.67	117.31	122.24
1	KA	78	ALA	CA-C-O	-5.66	114.24	120.36
3	YE	808	GLY	N-CA-C	5.66	117.82	112.04
1	F2	10	GLY	CA-C-O	-5.66	116.01	121.11
3	Y4	708	ALA	CA-C-N	-5.66	113.71	119.83
3	Y4	708	ALA	C-N-CA	-5.66	113.71	119.83
1	B7	73	ASP	CB-CA-C	5.66	120.21	110.01
1	K9	78	ALA	CA-C-O	-5.66	114.24	120.36
1	KP	78	ALA	CA-C-O	-5.66	114.24	120.36
1	FH	10	GLY	CA-C-O	-5.66	116.01	121.11
3	YJ	795	ILE	N-CA-C	-5.66	100.26	108.36
1	Be	73	ASP	CB-CA-C	5.66	120.20	110.01
3	Yi	808	GLY	N-CA-C	5.66	117.82	112.04
1	GW	82	ALA	N-CA-C	5.66	117.53	111.36
1	GZ	71	VAL	N-CA-CB	5.66	116.89	110.72
3	Yw	808	GLY	N-CA-C	5.66	117.82	112.04
1	Ks	78	ALA	CA-C-O	-5.66	114.24	120.36
1	KI	78	ALA	CA-C-O	-5.66	114.24	120.36
1	BE	73	ASP	CB-CA-C	5.66	120.20	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Y0	808	GLY	N-CA-C	5.66	117.81	112.04
1	BT	73	ASP	CB-CA-C	5.66	120.20	110.01
3	YF	808	GLY	N-CA-C	5.66	117.81	112.04
1	Bg	73	ASP	CB-CA-C	5.66	120.20	110.01
1	Ni	42	GLY	CA-C-O	-5.66	117.31	122.24
1	Kq	78	ALA	CA-C-O	-5.66	114.25	120.36
1	K8	78	ALA	CA-C-O	-5.66	114.25	120.36
1	BS	73	ASP	CB-CA-C	5.66	120.20	110.01
1	GT	71	VAL	N-CA-CB	5.66	116.89	110.72
1	KF	78	ALA	CA-C-O	-5.66	114.25	120.36
3	YY	795	ILE	N-CA-C	-5.66	100.27	108.36
1	Bw	73	ASP	CB-CA-C	5.66	120.20	110.01
3	Yo	808	GLY	N-CA-C	5.66	117.81	112.04
3	XC	714	THR	CA-C-O	-5.66	114.71	121.56
1	B8	73	ASP	CB-CA-C	5.66	120.19	110.01
1	F6	10	GLY	CA-C-O	-5.66	116.02	121.11
1	K0	78	ALA	CA-C-O	-5.66	114.25	120.36
1	KO	78	ALA	CA-C-O	-5.66	114.25	120.36
2	PO	27	VAL	CA-C-O	-5.66	116.09	121.64
1	DS	61	VAL	CA-C-N	-5.66	113.08	120.44
1	DS	61	VAL	C-N-CA	-5.66	113.08	120.44
1	BC	73	ASP	CB-CA-C	5.66	120.19	110.01
1	KD	78	ALA	CA-C-O	-5.66	114.25	120.36
1	BR	73	ASP	CB-CA-C	5.66	120.19	110.01
1	Gi	71	VAL	N-CA-CB	5.66	116.89	110.72
1	FV	10	GLY	CA-C-O	-5.66	116.02	121.11
1	Kw	78	ALA	CA-C-O	-5.66	114.25	120.36
3	YA	808	GLY	N-CA-C	5.66	117.81	112.04
1	H3	45	TYR	CA-C-O	-5.66	114.26	120.43
3	Y1	808	GLY	N-CA-C	5.66	117.81	112.04
1	G7	71	VAL	N-CA-CB	5.66	116.89	110.72
3	YG	808	GLY	N-CA-C	5.66	117.81	112.04
3	Ye	808	GLY	N-CA-C	5.66	117.81	112.04
3	XW	725	THR	N-CA-C	-5.66	99.51	108.73
1	Gx	71	VAL	N-CA-CB	5.66	116.89	110.72
1	Ku	78	ALA	CA-C-O	-5.66	114.25	120.36
1	Fo	10	GLY	CA-C-O	-5.66	116.02	121.11
1	G3	71	VAL	N-CA-CB	5.65	116.88	110.72
1	H7	45	TYR	CA-C-O	-5.65	114.27	120.43
3	YJ	808	GLY	N-CA-C	5.65	117.81	112.04
1	Bf	73	ASP	CB-CA-C	5.65	120.19	110.01
1	Gh	71	VAL	N-CA-CB	5.65	116.88	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	YV	808	GLY	N-CA-C	5.65	117.81	112.04
1	Hc	45	TYR	CA-C-O	-5.65	114.27	120.43
1	Nw	42	GLY	CA-C-O	-5.65	117.32	122.24
2	Pt	55	SER	N-CA-C	5.65	116.37	108.00
1	Ko	78	ALA	CA-C-O	-5.65	114.25	120.36
1	Gq	78	ALA	CA-C-O	-5.65	113.30	120.20
1	NH	42	GLY	CA-C-O	-5.65	117.32	122.24
1	BO	73	ASP	CB-CA-C	5.65	120.18	110.01
1	HO	45	TYR	CA-C-O	-5.65	114.27	120.43
3	YO	795	ILE	N-CA-C	-5.65	100.28	108.36
1	HZ	45	TYR	CA-C-O	-5.65	114.27	120.43
1	Kc	78	ALA	CA-C-O	-5.65	114.26	120.36
1	Kd	78	ALA	CA-C-O	-5.65	114.26	120.36
3	Yb	808	GLY	N-CA-C	5.65	117.81	112.04
3	Ys	795	ILE	N-CA-C	-5.65	100.28	108.36
1	FC	10	GLY	CA-C-O	-5.65	116.03	121.11
3	YD	808	GLY	N-CA-C	5.65	117.80	112.04
1	H4	45	TYR	CA-C-O	-5.65	114.27	120.43
1	H0	45	TYR	CA-C-O	-5.65	114.27	120.43
1	H6	45	TYR	CA-C-O	-5.65	114.27	120.43
1	FM	10	GLY	CA-C-O	-5.65	116.03	121.11
3	Yu	808	GLY	N-CA-C	5.65	117.80	112.04
3	Yl	808	GLY	N-CA-C	5.65	117.80	112.04
1	B2	73	ASP	CB-CA-C	5.65	120.17	110.01
1	F1	10	GLY	CA-C-O	-5.65	116.03	121.11
1	H2	45	TYR	CA-C-O	-5.65	114.27	120.43
1	H5	45	TYR	CA-C-O	-5.65	114.27	120.43
1	N2	42	GLY	CA-C-O	-5.65	117.33	122.24
1	HH	45	TYR	CA-C-O	-5.65	114.27	120.43
1	HK	45	TYR	CA-C-O	-5.65	114.27	120.43
1	KN	78	ALA	CA-C-O	-5.65	114.26	120.36
1	Nh	42	GLY	CA-C-O	-5.65	117.33	122.24
1	Dm	18	VAL	N-CA-C	-5.65	105.57	112.35
1	KB	78	ALA	CA-C-O	-5.65	114.26	120.36
3	XE	714	THR	CA-C-O	-5.65	114.73	121.56
1	B4	73	ASP	CB-CA-C	5.65	120.17	110.01
3	X2	725	THR	N-CA-C	-5.65	99.53	108.73
2	P9	27	VAL	CA-C-O	-5.65	116.11	121.64
3	XT	714	THR	CA-C-O	-5.65	114.73	121.56
3	YM	808	GLY	N-CA-C	5.65	117.80	112.04
2	Pe	55	SER	N-CA-C	5.65	116.36	108.00
1	Hb	45	TYR	CA-C-O	-5.65	114.28	120.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Kb	78	ALA	CA-C-O	-5.65	114.26	120.36
1	DF	18	VAL	CA-C-N	-5.65	112.78	119.05
1	DF	18	VAL	C-N-CA	-5.65	112.78	119.05
1	HA	45	TYR	CA-C-O	-5.64	114.28	120.43
1	K2	78	ALA	CA-C-O	-5.64	114.26	120.36
3	Y6	808	GLY	N-CA-C	5.64	117.80	112.04
1	HP	45	TYR	CA-C-O	-5.64	114.28	120.43
1	HI	45	TYR	CA-C-O	-5.64	114.28	120.43
3	Yh	795	ILE	N-CA-C	-5.64	100.29	108.36
3	Ya	808	GLY	N-CA-C	5.64	117.80	112.04
3	Yd	795	ILE	N-CA-C	-5.64	100.29	108.36
1	Nx	42	GLY	CA-C-O	-5.64	117.33	122.24
3	Yp	808	GLY	N-CA-C	5.64	117.80	112.04
1	KS	78	ALA	CA-C-O	-5.64	114.27	120.36
1	GL	71	VAL	N-CA-CB	5.64	116.87	110.72
1	HF	45	TYR	CA-C-O	-5.64	114.28	120.43
1	NX	42	GLY	CA-C-O	-5.64	117.33	122.24
1	Kk	78	ALA	CA-C-O	-5.64	114.27	120.36
1	KY	78	ALA	CA-C-O	-5.64	114.27	120.36
1	Kn	78	ALA	CA-C-O	-5.64	114.27	120.36
1	Dr	18	VAL	N-CA-C	-5.64	105.58	112.35
1	FB	10	GLY	CA-C-O	-5.64	116.03	121.11
1	GB	82	ALA	N-CA-C	5.64	117.51	111.36
1	NA	42	GLY	CA-C-O	-5.64	117.33	122.24
3	Y4	808	GLY	N-CA-C	5.64	117.79	112.04
1	G7	78	ALA	CA-C-O	-5.64	113.32	120.20
1	GQ	82	ALA	N-CA-C	5.64	117.51	111.36
1	NT	42	GLY	CA-C-O	-5.64	117.33	122.24
3	YS	795	ILE	N-CA-C	-5.64	100.30	108.36
3	YU	808	GLY	N-CA-C	5.64	117.79	112.04
1	Gt	71	VAL	N-CA-CB	5.64	116.87	110.72
1	Kl	78	ALA	CA-C-O	-5.64	114.27	120.36
3	Yn	795	ILE	N-CA-C	-5.64	100.30	108.36
3	Y3	808	GLY	N-CA-C	5.64	117.79	112.04
1	GM	71	VAL	N-CA-CB	5.64	116.86	110.72
1	Gv	71	VAL	N-CA-CB	5.64	116.87	110.72
1	Bs	73	ASP	CB-CA-C	5.64	120.16	110.01
1	Kr	78	ALA	CA-C-O	-5.64	114.27	120.36
1	FF	68	CYS	N-CA-C	5.64	119.42	112.54
1	N1	42	GLY	CA-C-O	-5.64	117.34	122.24
3	Y4	795	ILE	N-CA-C	-5.64	100.30	108.36
3	Xv	714	THR	CA-C-O	-5.64	114.74	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Fn	10	GLY	CA-C-O	-5.64	116.04	121.11
1	L8	40	PHE	CB-CA-C	5.63	120.11	110.81
3	YQ	795	ILE	N-CA-C	-5.63	100.30	108.36
3	YS	808	GLY	N-CA-C	5.63	117.79	112.04
3	YT	808	GLY	N-CA-C	5.63	117.79	112.04
1	GH	82	ALA	N-CA-C	5.63	117.50	111.36
1	GK	71	VAL	N-CA-CB	5.63	116.86	110.72
1	Fg	10	GLY	CA-C-O	-5.63	116.04	121.11
1	Hg	45	TYR	CA-C-O	-5.63	114.29	120.43
1	Bd	73	ASP	CB-CA-C	5.63	120.15	110.01
1	Fv	10	GLY	CA-C-O	-5.63	116.04	121.11
1	Kx	78	ALA	CA-C-O	-5.63	114.27	120.36
1	Nk	42	GLY	CA-C-O	-5.63	117.34	122.24
3	Yo	795	ILE	N-CA-C	-5.63	100.30	108.36
1	Dl	74	GLY	N-CA-C	5.63	118.22	110.56
1	LC	40	PHE	CB-CA-C	5.63	120.10	110.81
3	Y0	795	ILE	N-CA-C	-5.63	100.31	108.36
1	LR	40	PHE	CB-CA-C	5.63	120.10	110.81
3	YF	795	ILE	N-CA-C	-5.63	100.31	108.36
1	Fi	10	GLY	CA-C-O	-5.63	116.04	121.11
1	KX	78	ALA	CA-C-O	-5.63	114.28	120.36
3	Xl	725	THR	N-CA-C	-5.63	99.55	108.73
1	BD	73	ASP	CB-CA-C	5.63	120.15	110.01
3	Y9	795	ILE	N-CA-C	-5.63	100.31	108.36
1	BJ	73	ASP	CB-CA-C	5.63	120.14	110.01
1	HG	45	TYR	CA-C-O	-5.63	114.29	120.43
3	YM	795	ILE	N-CA-C	-5.63	100.31	108.36
1	Kf	78	ALA	CA-C-O	-5.63	114.28	120.36
3	Xg	714	THR	CA-C-O	-5.63	114.75	121.56
1	BY	73	ASP	CB-CA-C	5.63	120.15	110.01
1	HW	45	TYR	CA-C-O	-5.63	114.29	120.43
3	YY	708	ALA	CA-C-N	-5.63	113.75	119.83
3	YY	708	ALA	C-N-CA	-5.63	113.75	119.83
1	Ha	45	TYR	CA-C-O	-5.63	114.29	120.43
1	Bn	73	ASP	CB-CA-C	5.63	120.15	110.01
1	Ho	45	TYR	CA-C-O	-5.63	114.29	120.43
3	Xp	724	ILE	N-CA-C	5.63	117.74	109.63
1	DD	43	GLY	N-CA-C	-5.63	107.47	115.30
1	Dc	18	VAL	N-CA-C	-5.63	105.59	112.35
3	YU	795	ILE	N-CA-C	-5.63	100.31	108.36
1	LI	40	PHE	CB-CA-C	5.63	120.10	110.81
1	FE	10	GLY	CA-C-O	-5.63	116.04	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Lg	40	PHE	CB-CA-C	5.63	120.10	110.81
3	YZ	808	GLY	N-CA-C	5.63	117.78	112.04
1	KU	78	ALA	CA-C-O	-5.63	114.28	120.36
1	La	40	PHE	CB-CA-C	5.63	120.10	110.81
1	Go	71	VAL	N-CA-CB	5.63	116.86	110.72
1	Kj	78	ALA	CA-C-O	-5.63	114.28	120.36
3	Yq	795	ILE	N-CA-C	-5.63	100.31	108.36
1	HC	45	TYR	CA-C-O	-5.63	114.30	120.43
1	NC	42	GLY	CA-C-O	-5.63	117.34	122.24
3	YD	795	ILE	N-CA-C	-5.63	100.31	108.36
1	GR	71	VAL	N-CA-CB	5.63	116.85	110.72
1	NR	42	GLY	CA-C-O	-5.63	117.34	122.24
1	Hv	45	TYR	CA-C-O	-5.63	114.30	120.43
3	Yk	719	LEU	N-CA-C	5.63	117.96	110.53
3	Yn	708	ALA	CA-C-N	-5.63	113.75	119.83
3	Yn	708	ALA	C-N-CA	-5.63	113.75	119.83
1	N3	42	GLY	CA-C-O	-5.62	117.35	122.24
3	Y7	795	ILE	N-CA-C	-5.62	100.32	108.36
1	GM	78	ALA	CA-C-O	-5.62	113.34	120.20
1	Lo	40	PHE	CB-CA-C	5.62	120.09	110.81
1	NI	42	GLY	CA-C-O	-5.62	117.35	122.24
1	Nm	42	GLY	CA-C-O	-5.62	117.35	122.24
1	NP	42	GLY	CA-C-O	-5.62	117.35	122.24
1	KH	78	ALA	CA-C-O	-5.62	114.29	120.36
2	PI	27	VAL	CA-C-O	-5.62	116.13	121.64
1	HX	45	TYR	CA-C-O	-5.62	114.30	120.43
3	YW	795	ILE	N-CA-C	-5.62	100.32	108.36
1	Hu	45	TYR	CA-C-O	-5.62	114.30	120.43
3	Yj	795	ILE	N-CA-C	-5.62	100.32	108.36
1	GE	71	VAL	N-CA-CB	5.62	116.85	110.72
1	H1	45	TYR	CA-C-O	-5.62	114.30	120.43
3	Y2	795	ILE	N-CA-C	-5.62	100.32	108.36
3	XH	725	THR	N-CA-C	-5.62	99.57	108.73
3	YH	795	ILE	N-CA-C	-5.62	100.32	108.36
3	Yf	808	GLY	N-CA-C	5.62	117.77	112.04
1	FW	10	GLY	CA-C-O	-5.62	116.05	121.11
1	Fu	10	GLY	CA-C-O	-5.62	116.05	121.11
3	Xi	714	THR	CA-C-O	-5.62	114.76	121.56
3	Ym	795	ILE	N-CA-C	-5.62	100.32	108.36
3	YB	808	GLY	N-CA-C	5.62	117.77	112.04
3	YE	795	ILE	N-CA-C	-5.62	100.32	108.36
2	P4	27	VAL	CA-C-O	-5.62	116.14	121.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	YQ	808	GLY	N-CA-C	5.62	117.77	112.04
3	YT	795	ILE	N-CA-C	-5.62	100.32	108.36
1	NM	42	GLY	CA-C-O	-5.62	117.35	122.24
1	Ge	71	VAL	N-CA-CB	5.62	116.84	110.72
1	GV	71	VAL	N-CA-CB	5.62	116.84	110.72
3	Xx	714	THR	CA-C-O	-5.62	114.76	121.56
3	Yw	795	ILE	N-CA-C	-5.62	100.33	108.36
1	Fa	10	GLY	CA-C-O	-5.62	116.05	121.11
1	GC	71	VAL	N-CA-CB	5.62	116.84	110.72
1	De	13	GLU	CA-C-O	-5.62	114.76	120.71
1	LZ	40	PHE	CB-CA-C	5.62	120.08	110.81
1	Nu	42	GLY	CA-C-O	-5.62	117.35	122.24
1	L6	40	PHE	CB-CA-C	5.61	120.07	110.81
1	N8	42	GLY	CA-C-O	-5.61	117.36	122.24
3	YH	808	GLY	N-CA-C	5.61	117.77	112.04
1	NN	42	GLY	CA-C-O	-5.61	117.36	122.24
1	Gg	71	VAL	N-CA-CB	5.61	116.84	110.72
1	LX	40	PHE	CB-CA-C	5.61	120.07	110.81
1	Fb	10	GLY	CA-C-O	-5.61	116.06	121.11
1	L3	40	PHE	CB-CA-C	5.61	120.07	110.81
1	F5	10	GLY	CA-C-O	-5.61	116.06	121.11
1	Gk	71	VAL	N-CA-CB	5.61	116.84	110.72
2	Pm	27	VAL	CA-C-O	-5.61	116.14	121.64
1	J6	74	GLY	N-CA-C	5.61	118.01	110.43
1	Fq	10	GLY	CA-C-O	-5.61	116.06	121.11
3	Y5	795	ILE	N-CA-C	-5.61	100.34	108.36
1	Ne	42	GLY	CA-C-O	-5.61	117.36	122.24
2	PY	27	VAL	CA-C-O	-5.61	116.14	121.64
3	YZ	795	ILE	N-CA-C	-5.61	100.34	108.36
3	Yb	795	ILE	N-CA-C	-5.61	100.34	108.36
1	Lv	40	PHE	CB-CA-C	5.61	120.07	110.81
2	Pn	27	VAL	CA-C-O	-5.61	116.14	121.64
1	Lp	40	PHE	CB-CA-C	5.61	120.07	110.81
1	DC	13	GLU	CA-C-O	-5.61	114.77	120.71
3	Yj	808	GLY	N-CA-C	5.61	117.76	112.04
1	HB	45	TYR	CA-C-O	-5.61	114.32	120.43
1	HE	45	TYR	CA-C-O	-5.61	114.32	120.43
3	YB	795	ILE	N-CA-C	-5.61	100.34	108.36
1	HQ	45	TYR	CA-C-O	-5.61	114.32	120.43
1	Hf	45	TYR	CA-C-O	-5.61	114.32	120.43
3	Yu	795	ILE	N-CA-C	-5.61	100.34	108.36
1	J3	74	GLY	N-CA-C	5.61	117.74	112.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F3	10	GLY	CA-C-O	-5.61	116.06	121.11
1	D0	13	GLU	CA-C-O	-5.61	114.77	120.71
1	F8	10	GLY	CA-C-O	-5.61	116.07	121.11
1	FI	10	GLY	CA-C-O	-5.61	116.06	121.11
1	LJ	40	PHE	CB-CA-C	5.61	120.06	110.81
1	DN	13	GLU	CA-C-O	-5.61	114.77	120.71
3	Yf	795	ILE	N-CA-C	-5.61	100.34	108.36
3	YV	719	LEU	N-CA-C	5.61	117.93	110.53
1	Ff	10	GLY	CA-C-O	-5.60	116.07	121.11
1	Lj	40	PHE	CB-CA-C	5.60	120.06	110.81
1	Km	78	ALA	CA-C-O	-5.60	114.31	120.36
2	PR	27	VAL	CA-C-O	-5.60	116.15	121.64
3	YL	808	GLY	N-CA-C	5.60	117.75	112.04
1	Lu	40	PHE	CB-CA-C	5.60	120.05	110.81
1	Fp	10	GLY	CA-C-O	-5.60	116.07	121.11
3	Y1	719	LEU	N-CA-C	5.60	117.92	110.53
3	YK	795	ILE	N-CA-C	-5.60	100.35	108.36
1	Le	40	PHE	CB-CA-C	5.60	120.05	110.81
1	Li	40	PHE	CB-CA-C	5.60	120.05	110.81
1	FX	10	GLY	CA-C-O	-5.60	116.07	121.11
1	HU	45	TYR	CA-C-O	-5.60	114.33	120.43
1	Fx	10	GLY	CA-C-O	-5.60	116.07	121.11
1	Hl	45	TYR	CA-C-O	-5.60	114.33	120.43
1	Fj	10	GLY	CA-C-O	-5.60	116.07	121.11
3	Xa	724	ILE	N-CA-C	5.60	117.69	109.63
1	DI	13	GLU	CA-C-O	-5.60	114.77	120.71
3	YN	795	ILE	N-CA-C	-5.60	100.36	108.36
3	Ya	795	ILE	N-CA-C	-5.60	100.36	108.36
3	Yt	795	ILE	N-CA-C	-5.60	100.36	108.36
3	Yl	795	ILE	N-CA-C	-5.60	100.36	108.36
3	Yp	795	ILE	N-CA-C	-5.60	100.36	108.36
3	YA	795	ILE	N-CA-C	-5.60	100.36	108.36
3	YP	795	ILE	N-CA-C	-5.60	100.36	108.36
1	FK	10	GLY	CA-C-O	-5.60	116.07	121.11
2	Pc	67	TYR	N-CA-C	5.60	116.03	109.60
1	L5	40	PHE	CB-CA-C	5.59	120.04	110.81
1	LK	40	PHE	CB-CA-C	5.59	120.04	110.81
1	HL	45	TYR	CA-C-O	-5.59	114.33	120.43
1	LL	40	PHE	CB-CA-C	5.59	120.04	110.81
3	YO	808	GLY	N-CA-C	5.59	117.75	112.04
3	Ye	795	ILE	N-CA-C	-5.59	100.36	108.36
1	Lc	40	PHE	CB-CA-C	5.59	120.04	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Dt	13	GLU	CA-C-O	-5.59	114.78	120.71
1	Hj	45	TYR	CA-C-O	-5.59	114.33	120.43
1	Lr	40	PHE	CB-CA-C	5.59	120.04	110.81
1	Mj	13	GLU	CA-C-O	-5.59	114.59	120.80
2	PX	27	VAL	CA-C-O	-5.59	116.16	121.64
1	LU	40	PHE	CB-CA-C	5.59	120.04	110.81
1	Ln	40	PHE	CB-CA-C	5.59	120.04	110.81
1	DA	13	GLU	CA-C-O	-5.59	114.78	120.71
3	Y1	795	ILE	N-CA-C	-5.59	100.36	108.36
2	PG	27	VAL	CA-C-O	-5.59	116.16	121.64
3	YG	719	LEU	N-CA-C	5.59	117.91	110.53
3	YG	795	ILE	N-CA-C	-5.59	100.36	108.36
3	YI	795	ILE	N-CA-C	-5.59	100.36	108.36
1	LV	40	PHE	CB-CA-C	5.59	120.03	110.81
3	YX	795	ILE	N-CA-C	-5.59	100.36	108.36
3	YY	808	GLY	N-CA-C	5.59	117.74	112.04
1	LN	40	PHE	CB-CA-C	5.59	120.04	110.81
3	Y3	795	ILE	N-CA-C	-5.59	100.36	108.36
3	Y9	808	GLY	N-CA-C	5.59	117.74	112.04
3	YK	719	LEU	N-CA-C	5.59	117.91	110.53
3	Yx	795	ILE	N-CA-C	-5.59	100.37	108.36
1	Lk	40	PHE	CB-CA-C	5.59	120.03	110.81
1	Hp	45	TYR	CA-C-O	-5.59	114.34	120.43
2	Pr	67	TYR	N-CA-C	5.59	116.03	109.60
1	Dw	53	GLU	N-CA-C	-5.59	103.15	110.53
3	XE	635	GLN	N-CA-C	5.59	117.37	111.28
1	D5	13	GLU	CA-C-O	-5.59	114.79	120.71
2	Pf	27	VAL	CA-C-O	-5.59	116.16	121.64
3	Xi	635	GLN	N-CA-C	5.59	117.37	111.28
3	Xx	635	GLN	N-CA-C	5.59	117.37	111.28
1	LA	40	PHE	CB-CA-C	5.59	120.03	110.81
1	L7	40	PHE	CB-CA-C	5.59	120.03	110.81
2	PJ	27	VAL	CA-C-O	-5.59	116.17	121.64
1	LF	40	PHE	CB-CA-C	5.59	120.03	110.81
1	DZ	13	GLU	CA-C-O	-5.59	114.79	120.71
1	Do	13	GLU	CA-C-O	-5.59	114.79	120.71
1	K4	78	ALA	CA-C-O	-5.58	114.33	120.36
3	Y8	795	ILE	N-CA-C	-5.58	100.37	108.36
3	YL	795	ILE	N-CA-C	-5.58	100.37	108.36
1	DR	13	GLU	CA-C-O	-5.58	114.79	120.71
1	L2	40	PHE	CB-CA-C	5.58	120.02	110.81
1	LS	40	PHE	CB-CA-C	5.58	120.02	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	LH	40	PHE	CB-CA-C	5.58	120.02	110.81
1	Nc	42	GLY	CA-C-O	-5.58	117.38	122.24
1	Gw	71	VAL	N-CA-CB	5.58	116.81	110.72
1	Ll	40	PHE	CB-CA-C	5.58	120.02	110.81
3	Yk	720	ALA	N-CA-C	5.58	120.04	113.23
2	P3	27	VAL	CA-C-O	-5.58	116.17	121.64
3	Y1	720	ALA	N-CA-C	5.58	120.04	113.23
3	Y5	719	LEU	N-CA-C	5.58	117.90	110.53
1	Dg	13	GLU	CA-C-O	-5.58	114.79	120.71
3	Yi	795	ILE	N-CA-C	-5.58	100.38	108.36
1	Od	13	GLU	CA-C-O	-5.58	114.79	120.71
3	Yd	808	GLY	N-CA-C	5.58	117.73	112.04
1	Dv	13	GLU	CA-C-O	-5.58	114.79	120.71
2	P8	67	TYR	N-CA-C	5.58	116.02	109.60
3	Y6	795	ILE	N-CA-C	-5.58	100.38	108.36
1	LW	40	PHE	CB-CA-C	5.58	120.02	110.81
1	Dk	13	GLU	CA-C-O	-5.58	114.80	120.71
1	N7	42	GLY	CA-C-O	-5.58	117.39	122.24
3	XL	724	ILE	N-CA-C	5.58	117.66	109.63
1	Lt	40	PHE	CB-CA-C	5.58	120.01	110.81
1	Nq	42	GLY	CA-C-O	-5.58	117.39	122.24
1	D3	13	GLU	CA-C-O	-5.58	114.80	120.71
3	XT	635	GLN	N-CA-C	5.58	117.36	111.28
2	PN	67	TYR	N-CA-C	5.58	116.01	109.60
2	Px	27	VAL	CA-C-O	-5.58	116.17	121.64
1	FQ	10	GLY	CA-C-O	-5.58	116.09	121.11
3	YV	720	ALA	N-CA-C	5.58	120.03	113.23
1	Os	13	GLU	CA-C-O	-5.58	114.80	120.71
3	Yr	795	ILE	N-CA-C	-5.58	100.39	108.36
1	D1	13	GLU	CA-C-O	-5.57	114.80	120.71
1	L1	40	PHE	CB-CA-C	5.57	120.01	110.81
1	L4	40	PHE	CB-CA-C	5.57	120.01	110.81
1	F0	10	GLY	CA-C-O	-5.57	116.09	121.11
1	L0	40	PHE	CB-CA-C	5.57	120.00	110.81
1	LP	40	PHE	CB-CA-C	5.57	120.00	110.81
1	DG	13	GLU	CA-C-O	-5.57	114.80	120.71
1	LG	40	PHE	CB-CA-C	5.57	120.01	110.81
1	Lf	40	PHE	CB-CA-C	5.57	120.00	110.81
1	LY	40	PHE	CB-CA-C	5.57	120.01	110.81
3	YV	795	ILE	N-CA-C	-5.57	100.39	108.36
2	Pu	27	VAL	CA-C-O	-5.57	116.18	121.64
1	FF	10	GLY	CA-C-O	-5.57	116.09	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Oe	13	GLU	CA-C-O	-5.57	114.80	120.71
3	Yn	808	GLY	N-CA-C	5.57	117.72	112.04
3	YC	795	ILE	N-CA-C	-5.57	100.39	108.36
3	YG	720	ALA	N-CA-C	5.57	120.03	113.23
1	FN	10	GLY	CA-C-O	-5.57	116.10	121.11
1	DV	13	GLU	CA-C-O	-5.57	114.81	120.71
1	Nt	42	GLY	CA-C-O	-5.57	117.39	122.24
1	Dn	67	ALA	N-CA-C	5.57	117.03	111.07
1	Fl	10	GLY	CA-C-O	-5.57	116.10	121.11
1	Fe	10	GLY	CA-C-O	-5.57	116.10	121.11
1	Fc	10	GLY	CA-C-O	-5.57	116.10	121.11
1	Lb	40	PHE	CB-CA-C	5.57	120.00	110.81
1	LE	40	PHE	CB-CA-C	5.57	120.00	110.81
1	DL	13	GLU	CA-C-O	-5.57	114.81	120.71
2	PV	27	VAL	CA-C-O	-5.57	116.18	121.64
1	MU	13	GLU	CA-C-O	-5.57	114.62	120.80
3	Yc	795	ILE	N-CA-C	-5.57	100.40	108.36
1	Lx	40	PHE	CB-CA-C	5.57	120.00	110.81
3	Yv	795	ILE	N-CA-C	-5.57	100.40	108.36
1	Dn	77	ALA	N-CA-C	5.57	117.31	108.79
1	LM	40	PHE	CB-CA-C	5.57	120.00	110.81
3	YC	723	LEU	N-CA-C	-5.57	105.84	113.30
2	P2	27	VAL	CA-C-O	-5.57	116.19	121.64
2	PH	27	VAL	CA-C-O	-5.57	116.19	121.64
3	Yg	723	LEU	N-CA-C	-5.57	105.84	113.30
3	Yg	795	ILE	N-CA-C	-5.57	100.40	108.36
2	PW	27	VAL	CA-C-O	-5.57	116.19	121.64
1	Dx	13	GLU	CA-C-O	-5.57	114.81	120.71
2	Pl	27	VAL	CA-C-O	-5.57	116.19	121.64
2	P7	27	VAL	CA-C-O	-5.56	116.19	121.64
1	Lh	40	PHE	CB-CA-C	5.56	119.99	110.81
3	YZ	719	LEU	N-CA-C	5.56	117.88	110.53
3	Yo	719	LEU	N-CA-C	5.56	117.88	110.53
1	DE	13	GLU	CA-C-O	-5.56	114.81	120.71
1	LD	40	PHE	CB-CA-C	5.56	119.99	110.81
2	PC	27	VAL	CA-C-O	-5.56	116.19	121.64
1	DT	13	GLU	CA-C-O	-5.56	114.81	120.71
2	PQ	27	VAL	CA-C-O	-5.56	116.19	121.64
3	YF	788	GLU	CB-CG-CD	5.56	122.05	112.60
1	AY	49	LEU	CA-C-O	-5.56	114.35	120.36
2	PD	45	ILE	CA-C-N	-5.56	113.97	119.92
2	PD	45	ILE	C-N-CA	-5.56	113.97	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O4	13	GLU	CA-C-O	-5.56	114.82	120.71
2	PS	45	ILE	CA-C-N	-5.56	113.97	119.92
2	PS	45	ILE	C-N-CA	-5.56	113.97	119.92
1	OF	13	GLU	CA-C-O	-5.56	114.82	120.71
2	Pg	27	VAL	CA-C-O	-5.56	116.19	121.64
1	Lq	40	PHE	CB-CA-C	5.56	119.98	110.81
3	Ys	808	GLY	N-CA-C	5.56	117.71	112.04
3	X6	724	ILE	N-CA-C	5.56	117.63	109.63
1	LQ	40	PHE	CB-CA-C	5.56	119.98	110.81
1	OL	13	GLU	CA-C-O	-5.56	114.82	120.71
3	Yv	723	LEU	N-CA-C	-5.56	105.85	113.30
1	Fr	10	GLY	CA-C-O	-5.56	116.11	121.11
1	DY	18	VAL	CA-C-N	-5.56	112.88	119.05
1	DY	18	VAL	C-N-CA	-5.56	112.88	119.05
1	FA	10	GLY	CA-C-O	-5.56	116.11	121.11
1	FP	10	GLY	CA-C-O	-5.56	116.11	121.11
1	FU	10	GLY	CA-C-O	-5.56	116.11	121.11
2	Px	59	ARG	N-CA-C	-5.56	105.22	111.28
1	AI	49	LEU	CA-C-O	-5.55	114.36	120.36
1	DK	13	GLU	CA-C-O	-5.55	114.82	120.71
2	Pa	27	VAL	CA-C-O	-5.55	116.20	121.64
3	YU	788	GLU	CB-CG-CD	5.55	122.04	112.60
1	Au	49	LEU	CA-C-O	-5.55	114.36	120.36
1	Lw	40	PHE	CB-CA-C	5.55	119.97	110.81
3	Yu	788	GLU	CB-CG-CD	5.55	122.04	112.60
1	Mk	13	GLU	CA-C-O	-5.55	114.63	120.80
2	Po	27	VAL	CA-C-O	-5.55	116.20	121.64
1	Nr	42	GLY	CA-C-O	-5.55	117.41	122.24
1	LO	40	PHE	CB-CA-C	5.55	119.97	110.81
3	Yf	788	GLU	CB-CG-CD	5.55	122.04	112.60
1	MV	13	GLU	CA-C-O	-5.55	114.64	120.80
3	XA	647	GLN	N-CA-C	5.55	117.33	111.28
1	LT	40	PHE	CB-CA-C	5.55	119.97	110.81
3	XP	647	GLN	N-CA-C	5.55	117.33	111.28
1	Ot	13	GLU	CA-C-O	-5.55	114.83	120.71
1	Ap	92	LEU	CA-C-N	-5.55	112.30	120.46
1	Ap	92	LEU	C-N-CA	-5.55	112.30	120.46
3	Ys	788	GLU	CB-CG-CD	5.55	122.04	112.60
2	PB	27	VAL	CA-C-O	-5.55	116.20	121.64
2	P1	27	VAL	CA-C-O	-5.55	116.20	121.64
1	D8	13	GLU	CA-C-O	-5.55	114.83	120.71
1	L9	40	PHE	CB-CA-C	5.55	119.97	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	YR	795	ILE	N-CA-C	-5.55	100.42	108.36
1	An	49	LEU	CA-C-O	-5.55	114.37	120.36
3	Yk	795	ILE	N-CA-C	-5.55	100.42	108.36
1	Dr	13	GLU	CA-C-O	-5.55	114.83	120.71
1	Dh	57	VAL	CA-C-N	-5.55	112.41	120.29
1	Dh	57	VAL	C-N-CA	-5.55	112.41	120.29
1	DX	13	GLU	CA-C-O	-5.55	114.83	120.71
1	Dc	13	GLU	CA-C-O	-5.55	114.83	120.71
2	Pb	27	VAL	CA-C-O	-5.55	116.20	121.64
1	Dm	13	GLU	CA-C-O	-5.55	114.83	120.71
1	Of	13	GLU	CA-C-O	-5.55	114.83	120.71
3	YB	788	GLU	CB-CG-CD	5.54	122.03	112.60
1	MG	13	GLU	CA-C-O	-5.54	114.64	120.80
2	PM	27	VAL	CA-C-O	-5.54	116.21	121.64
1	Nb	42	GLY	CA-C-O	-5.54	117.42	122.24
3	Y6	788	GLU	CB-CG-CD	5.54	122.02	112.60
3	YS	788	GLU	CB-CG-CD	5.54	122.03	112.60
2	Ph	45	ILE	CA-C-N	-5.54	113.99	119.92
2	Ph	45	ILE	C-N-CA	-5.54	113.99	119.92
1	Da	13	GLU	CA-C-O	-5.54	114.83	120.71
1	Dp	13	GLU	CA-C-O	-5.54	114.83	120.71
1	FF	91	ILE	N-CA-C	5.54	116.32	110.72
1	LB	40	PHE	CB-CA-C	5.54	119.95	110.81
1	OO	13	GLU	CA-C-O	-5.54	114.84	120.71
3	Xe	647	GLN	N-CA-C	5.54	117.32	111.28
3	YR	719	LEU	N-CA-C	5.54	118.00	110.35
1	OJ	13	GLU	CA-C-O	-5.54	114.84	120.71
2	Pi	27	VAL	CA-C-O	-5.54	116.21	121.64
1	OZ	13	GLU	CA-C-O	-5.54	114.84	120.71
1	Oa	13	GLU	CA-C-O	-5.54	114.84	120.71
2	Pw	45	ILE	CA-C-N	-5.54	113.99	119.92
2	Pw	45	ILE	C-N-CA	-5.54	113.99	119.92
1	Oo	13	GLU	CA-C-O	-5.54	114.84	120.71
1	Op	13	GLU	CA-C-O	-5.54	114.84	120.71
3	Y0	788	GLU	CB-CG-CD	5.54	122.02	112.60
3	XP	631	GLU	N-CA-C	5.54	117.32	111.28
1	Og	13	GLU	CA-C-O	-5.54	114.84	120.71
1	Ov	13	GLU	CA-C-O	-5.54	114.84	120.71
1	Ow	13	GLU	CA-C-O	-5.54	114.84	120.71
3	Xt	647	GLN	N-CA-C	5.54	117.32	111.28
1	Em	76	VAL	N-CA-C	5.54	115.74	110.53
3	YZ	788	GLU	CB-CG-CD	5.54	122.01	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	P6	27	VAL	CA-C-O	-5.54	116.22	121.64
3	YR	723	LEU	N-CA-C	-5.54	105.88	113.30
2	PL	27	VAL	CA-C-O	-5.54	116.22	121.64
1	Ld	40	PHE	CB-CA-C	5.54	119.94	110.81
3	Yb	788	GLU	CB-CG-CD	5.54	122.01	112.60
1	Ft	10	GLY	CA-C-O	-5.54	116.13	121.11
3	Xo	688	ASP	N-CA-C	5.54	116.68	108.60
3	Xt	631	GLU	N-CA-C	5.53	117.31	111.28
1	Ls	40	PHE	CB-CA-C	5.53	119.94	110.81
3	Yj	788	GLU	CB-CG-CD	5.53	122.01	112.60
1	M6	13	GLU	CA-C-O	-5.53	114.66	120.80
3	Y9	788	GLU	CB-CG-CD	5.53	122.00	112.60
3	YO	788	GLU	CB-CG-CD	5.53	122.00	112.60
3	YD	788	GLU	CB-CG-CD	5.53	122.00	112.60
1	O9	13	GLU	CA-C-O	-5.53	114.85	120.71
1	DP	13	GLU	CA-C-O	-5.53	114.85	120.71
1	Di	13	GLU	CA-C-O	-5.53	114.85	120.71
1	Cc	28	THR	CB-CA-C	5.53	121.29	110.67
1	Fm	10	GLY	CA-C-O	-5.53	116.13	121.11
1	Aq	49	LEU	CA-C-O	-5.53	114.39	120.36
1	M0	13	GLU	CA-C-O	-5.53	114.66	120.80
1	MF	13	GLU	CA-C-O	-5.53	114.66	120.80
1	MJ	13	GLU	CA-C-O	-5.53	114.67	120.80
1	Oi	13	GLU	CA-C-O	-5.53	114.85	120.71
2	Pv	27	VAL	CA-C-O	-5.53	116.22	121.64
3	Yt	788	GLU	CB-CG-CD	5.53	122.00	112.60
1	M1	13	GLU	CA-C-O	-5.52	114.67	120.80
3	Y5	788	GLU	CB-CG-CD	5.52	121.99	112.60
3	YY	788	GLU	CB-CG-CD	5.52	121.99	112.60
3	Yd	788	GLU	CB-CG-CD	5.52	121.99	112.60
3	Yk	788	GLU	CB-CG-CD	5.52	121.99	112.60
1	Dj	13	GLU	CA-C-O	-5.52	114.85	120.71
1	OI	13	GLU	CA-C-O	-5.52	114.86	120.71
1	DU	13	GLU	CA-C-O	-5.52	114.85	120.71
1	O5	13	GLU	CA-C-O	-5.52	114.86	120.71
1	OQ	13	GLU	CA-C-O	-5.52	114.86	120.71
1	OK	13	GLU	CA-C-O	-5.52	114.86	120.71
1	Af	49	LEU	CA-C-O	-5.52	114.40	120.36
2	Pi	59	ARG	N-CA-C	-5.52	105.26	111.28
3	Ye	788	GLU	CB-CG-CD	5.52	121.99	112.60
1	MW	13	GLU	CA-C-O	-5.52	114.67	120.80
1	Ou	13	GLU	CA-C-O	-5.52	114.86	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Cr	28	THR	CB-CA-C	5.52	121.27	110.67
1	Mp	13	GLU	CA-C-O	-5.52	114.67	120.80
1	Mq	13	GLU	CA-C-O	-5.52	114.67	120.80
3	Yp	788	GLU	CB-CG-CD	5.52	121.99	112.60
3	YA	788	GLU	CB-CG-CD	5.52	121.99	112.60
3	YP	788	GLU	CB-CG-CD	5.52	121.99	112.60
3	Yh	788	GLU	CB-CG-CD	5.52	121.99	112.60
1	AB	49	LEU	CA-C-O	-5.52	114.40	120.36
3	XA	631	GLU	N-CA-C	5.52	117.30	111.28
3	YC	719	LEU	N-CA-C	5.52	117.97	110.35
3	YK	788	GLU	CB-CG-CD	5.52	121.98	112.60
3	Yi	788	GLU	CB-CG-CD	5.52	121.98	112.60
3	YV	788	GLU	CB-CG-CD	5.52	121.98	112.60
1	Co	28	THR	CB-CA-C	5.52	121.27	110.67
2	Pp	27	VAL	CA-C-O	-5.52	116.23	121.64
1	OA	13	GLU	CA-C-O	-5.52	114.86	120.71
1	OC	13	GLU	CA-C-O	-5.52	114.86	120.71
3	Y2	788	GLU	CB-CG-CD	5.52	121.98	112.60
1	M7	13	GLU	CA-C-O	-5.52	114.68	120.80
1	OP	13	GLU	CA-C-O	-5.52	114.86	120.71
1	OR	13	GLU	CA-C-O	-5.52	114.86	120.71
3	YQ	788	GLU	CB-CG-CD	5.52	121.98	112.60
3	YI	788	GLU	CB-CG-CD	5.52	121.98	112.60
1	Mx	13	GLU	CA-C-O	-5.52	114.67	120.80
1	Al	49	LEU	CA-C-O	-5.52	114.40	120.36
2	Pq	27	VAL	CA-C-O	-5.52	116.23	121.64
1	EF	18	VAL	CA-C-N	-5.52	112.93	119.05
1	EF	18	VAL	C-N-CA	-5.52	112.93	119.05
3	YE	788	GLU	CB-CG-CD	5.52	121.98	112.60
1	A4	49	LEU	CA-C-O	-5.52	114.40	120.36
3	YT	788	GLU	CB-CG-CD	5.52	121.98	112.60
3	Yx	788	GLU	CB-CG-CD	5.52	121.98	112.60
3	Yq	788	GLU	CB-CG-CD	5.52	121.98	112.60
3	Y4	788	GLU	CB-CG-CD	5.51	121.97	112.60
1	C8	28	THR	CB-CA-C	5.51	121.26	110.67
2	P8	27	VAL	CA-C-O	-5.51	116.24	121.64
1	MS	13	GLU	CA-C-O	-5.51	114.68	120.80
2	PT	59	ARG	N-CA-C	-5.51	105.27	111.28
2	PN	27	VAL	CA-C-O	-5.51	116.24	121.64
3	Y1	788	GLU	CB-CG-CD	5.51	121.97	112.60
3	YG	788	GLU	CB-CG-CD	5.51	121.97	112.60
1	CF	28	THR	CB-CA-C	5.51	121.25	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Yo	788	GLU	CB-CG-CD	5.51	121.97	112.60
1	OB	13	GLU	CA-C-O	-5.51	114.87	120.71
1	O3	13	GLU	CA-C-O	-5.51	114.87	120.71
1	MR	13	GLU	CA-C-O	-5.51	114.68	120.80
2	Pc	27	VAL	CA-C-O	-5.51	116.24	121.64
1	Ox	13	GLU	CA-C-O	-5.51	114.87	120.71
1	Ml	13	GLU	CA-C-O	-5.51	114.68	120.80
1	Cp	28	THR	CB-CA-C	5.51	121.25	110.67
2	PE	59	ARG	N-CA-C	-5.51	105.28	111.28
1	AQ	49	LEU	CA-C-O	-5.51	114.41	120.36
1	CN	28	THR	CB-CA-C	5.51	121.25	110.67
1	AW	49	LEU	CA-C-O	-5.51	114.41	120.36
3	Ya	788	GLU	CB-CG-CD	5.51	121.97	112.60
3	Yw	788	GLU	CB-CG-CD	5.51	121.97	112.60
1	Cj	28	THR	CB-CA-C	5.51	121.25	110.67
1	A5	49	LEU	CA-C-O	-5.51	114.41	120.36
3	Yc	788	GLU	CB-CG-CD	5.51	121.96	112.60
1	MD	13	GLU	CA-C-O	-5.51	114.69	120.80
3	YL	788	GLU	CB-CG-CD	5.51	121.96	112.60
2	PZ	27	VAL	CA-C-O	-5.51	116.24	121.64
3	XZ	688	ASP	N-CA-C	5.51	116.64	108.60
3	YW	788	GLU	CB-CG-CD	5.51	121.96	112.60
3	YX	788	GLU	CB-CG-CD	5.51	121.96	112.60
1	Ma	13	GLU	CA-C-O	-5.51	114.69	120.80
2	Pk	27	VAL	CA-C-O	-5.51	116.24	121.64
3	Y3	788	GLU	CB-CG-CD	5.51	121.96	112.60
1	JU	79	HIS	CB-CG-ND1	5.51	130.96	122.70
3	YN	788	GLU	CB-CG-CD	5.50	121.96	112.60
1	Cg	28	THR	CB-CA-C	5.50	121.24	110.67
1	Cs	28	THR	CB-CA-C	5.50	121.24	110.67
3	Yr	788	GLU	CB-CG-CD	5.50	121.96	112.60
1	MK	13	GLU	CA-C-O	-5.50	114.69	120.80
1	O6	13	GLU	CA-C-O	-5.50	114.88	120.71
1	MT	13	GLU	CA-C-O	-5.50	114.69	120.80
3	YH	788	GLU	CB-CG-CD	5.50	121.96	112.60
1	ML	13	GLU	CA-C-O	-5.50	114.69	120.80
1	OX	13	GLU	CA-C-O	-5.50	114.88	120.71
1	Mb	13	GLU	CA-C-O	-5.50	114.69	120.80
1	Mv	13	GLU	CA-C-O	-5.50	114.69	120.80
1	Ln	31	ALA	CA-C-O	-5.50	115.39	121.28
1	OD	13	GLU	CA-C-O	-5.50	114.88	120.71
2	PE	27	VAL	CA-C-O	-5.50	116.25	121.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O1	13	GLU	CA-C-O	-5.50	114.88	120.71
3	Y7	788	GLU	CB-CG-CD	5.50	121.95	112.60
3	Y8	788	GLU	CB-CG-CD	5.50	121.95	112.60
1	OT	13	GLU	CA-C-O	-5.50	114.88	120.71
1	AH	49	LEU	CA-C-O	-5.50	114.42	120.36
3	YJ	788	GLU	CB-CG-CD	5.50	121.95	112.60
1	OV	13	GLU	CA-C-O	-5.50	114.88	120.71
1	Ba	89	GLU	N-CA-C	5.50	117.28	111.28
1	On	13	GLU	CA-C-O	-5.50	114.88	120.71
1	Mm	92	LEU	N-CA-C	5.50	116.82	109.83
1	OE	13	GLU	CA-C-O	-5.50	114.88	120.71
1	HR	50	VAL	CA-C-O	-5.50	115.26	121.75
1	Gi	83	ARG	CA-C-O	-5.50	114.42	120.30
1	Av	49	LEU	CA-C-O	-5.50	114.42	120.36
3	XN	643	TYR	N-CA-C	-5.50	105.29	111.28
1	ME	13	GLU	CA-C-O	-5.50	114.70	120.80
1	C1	28	THR	CB-CA-C	5.50	121.23	110.67
1	M3	13	GLU	CA-C-O	-5.50	114.70	120.80
1	M5	13	GLU	CA-C-O	-5.50	114.70	120.80
1	C0	28	THR	CB-CA-C	5.50	121.23	110.67
1	CO	28	THR	CB-CA-C	5.50	121.23	110.67
1	Oh	13	GLU	CA-C-O	-5.50	114.88	120.71
3	Xe	631	GLU	N-CA-C	5.50	117.27	111.28
1	Cd	28	THR	CB-CA-C	5.50	121.23	110.67
1	Hv	50	VAL	CA-C-O	-5.50	115.26	121.75
3	Yn	788	GLU	CB-CG-CD	5.50	121.95	112.60
3	X3	631	GLU	N-CA-C	5.50	117.27	111.28
1	M9	13	GLU	CA-C-O	-5.50	114.70	120.80
1	CG	28	THR	CB-CA-C	5.50	121.22	110.67
1	Cf	28	THR	CB-CA-C	5.50	121.22	110.67
1	GZ	83	ARG	CA-C-O	-5.50	114.42	120.30
1	IX	16	GLY	CA-C-O	-5.50	117.04	121.77
1	CU	28	THR	CB-CA-C	5.50	121.22	110.67
1	Fd	53	GLU	CA-C-O	-5.50	115.23	121.72
1	Md	13	GLU	CA-C-O	-5.50	114.70	120.80
1	Ms	13	GLU	CA-C-O	-5.50	114.70	120.80
1	Dn	15	ARG	N-CA-C	-5.50	100.22	108.96
3	Yg	719	LEU	N-CA-C	5.50	117.93	110.35
1	CX	28	THR	CB-CA-C	5.50	121.22	110.67
1	Mn	13	GLU	CA-C-O	-5.50	114.70	120.80
1	CC	28	THR	CB-CA-C	5.49	121.22	110.67
1	A9	49	LEU	CA-C-O	-5.49	114.43	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O0	13	GLU	CA-C-O	-5.49	114.89	120.71
1	AO	49	LEU	CA-C-O	-5.49	114.43	120.36
1	Hf	50	VAL	CA-C-O	-5.49	115.27	121.75
1	Mi	13	GLU	CA-C-O	-5.49	114.70	120.80
1	CZ	28	THR	CB-CA-C	5.49	121.22	110.67
1	Fx	53	GLU	CA-C-O	-5.49	115.24	121.72
1	Ok	13	GLU	CA-C-O	-5.49	114.89	120.71
1	M2	13	GLU	CA-C-O	-5.49	114.70	120.80
1	AJ	49	LEU	CA-C-O	-5.49	114.43	120.36
1	Ah	49	LEU	CA-C-O	-5.49	114.43	120.36
2	Pr	27	VAL	CA-C-O	-5.49	116.26	121.64
1	Om	13	GLU	CA-C-O	-5.49	114.89	120.71
1	Me	13	GLU	CA-C-O	-5.49	114.71	120.80
1	JI	53	GLU	CA-C-O	-5.49	115.68	121.88
2	PA	27	VAL	CA-C-O	-5.49	116.26	121.64
1	C3	28	THR	CB-CA-C	5.49	121.21	110.67
1	M4	13	GLU	CA-C-O	-5.49	114.71	120.80
2	PP	27	VAL	CA-C-O	-5.49	116.26	121.64
1	MY	13	GLU	CA-C-O	-5.49	114.71	120.80
1	Ja	53	GLU	CA-C-O	-5.49	115.68	121.88
1	Gv	83	ARG	CA-C-O	-5.49	114.43	120.30
1	Ak	49	LEU	CA-C-O	-5.49	114.43	120.36
1	Dl	13	GLU	CA-C-O	-5.49	114.89	120.71
1	Mm	13	GLU	CA-C-O	-5.49	114.71	120.80
1	A7	49	LEU	CA-C-O	-5.49	114.43	120.36
3	XK	688	ASP	N-CA-C	5.49	116.61	108.60
1	Aa	49	LEU	CA-C-O	-5.49	114.43	120.36
1	Ab	49	LEU	CA-C-O	-5.49	114.43	120.36
3	X5	688	ASP	N-CA-C	5.49	116.61	108.60
1	CE	28	THR	CB-CA-C	5.49	121.20	110.67
1	KB	24	ALA	CA-C-O	-5.49	114.61	120.42
1	O2	13	GLU	CA-C-O	-5.49	114.89	120.71
1	CT	28	THR	CB-CA-C	5.49	121.20	110.67
1	AK	49	LEU	CA-C-O	-5.49	114.44	120.36
1	OH	13	GLU	CA-C-O	-5.49	114.89	120.71
3	YM	788	GLU	CB-CG-CD	5.49	121.92	112.60
1	Go	83	ARG	CA-C-O	-5.49	114.43	120.30
1	Ap	49	LEU	CA-C-O	-5.49	114.44	120.36
1	Mr	13	GLU	CA-C-O	-5.49	114.71	120.80
1	C6	28	THR	CB-CA-C	5.48	121.20	110.67
1	M8	13	GLU	CA-C-O	-5.48	114.71	120.80
1	AM	78	ALA	N-CA-C	-5.48	98.70	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CY	28	THR	CB-CA-C	5.48	121.20	110.67
1	Jx	53	GLU	CA-C-O	-5.48	115.68	121.88
1	AD	49	LEU	CA-C-O	-5.48	114.44	120.36
1	A2	49	LEU	CA-C-O	-5.48	114.44	120.36
1	A8	49	LEU	CA-C-O	-5.48	114.44	120.36
1	C9	28	THR	CB-CA-C	5.48	121.19	110.67
1	J8	53	GLU	CA-C-O	-5.48	115.68	121.88
1	AS	49	LEU	CA-C-O	-5.48	114.44	120.36
1	JR	53	GLU	CA-C-O	-5.48	115.68	121.88
1	Mf	13	GLU	CA-C-O	-5.48	114.71	120.80
1	GX	83	ARG	CA-C-O	-5.48	114.43	120.30
1	Ac	49	LEU	CA-C-O	-5.48	114.44	120.36
1	OU	13	GLU	CA-C-O	-5.48	114.90	120.71
1	Mu	13	GLU	CA-C-O	-5.48	114.71	120.80
1	Cm	28	THR	CB-CA-C	5.48	121.20	110.67
1	Cn	28	THR	CB-CA-C	5.48	121.20	110.67
1	Ar	49	LEU	CA-C-O	-5.48	114.44	120.36
1	JC	53	GLU	CA-C-O	-5.48	115.68	121.88
1	D7	30	ALA	N-CA-C	5.48	117.34	111.36
1	MC	13	GLU	CA-C-O	-5.48	114.72	120.80
1	B5	73	ASP	N-CA-C	-5.48	106.36	113.16
1	CR	28	THR	CB-CA-C	5.48	121.19	110.67
1	MN	13	GLU	CA-C-O	-5.48	114.72	120.80
1	Ca	28	THR	CB-CA-C	5.48	121.19	110.67
1	Cv	28	THR	CB-CA-C	5.48	121.19	110.67
2	Pt	27	VAL	CA-C-O	-5.48	116.27	121.64
1	J3	53	GLU	CA-C-O	-5.48	115.69	121.88
1	JL	53	GLU	CA-C-O	-5.48	115.69	121.88
1	Jc	53	GLU	CA-C-O	-5.48	115.69	121.88
1	Gx	83	ARG	CA-C-O	-5.48	114.44	120.30
1	Iv	16	GLY	CA-C-O	-5.48	117.06	121.77
1	Ks	24	ALA	CA-C-O	-5.48	114.61	120.42
1	J6	53	GLU	CA-C-O	-5.48	115.69	121.88
2	PT	27	VAL	CA-C-O	-5.48	116.27	121.64
1	KN	24	ALA	CA-C-O	-5.48	114.61	120.42
1	Af	78	ALA	N-CA-C	-5.48	98.71	108.13
1	Cu	28	THR	CB-CA-C	5.48	121.19	110.67
1	Fu	53	GLU	CA-C-O	-5.48	115.26	121.72
1	Fs	53	GLU	CA-C-O	-5.48	115.26	121.72
1	AC	49	LEU	CA-C-O	-5.48	114.44	120.36
1	DB	92	LEU	CA-C-N	-5.48	113.92	119.83
1	DB	92	LEU	C-N-CA	-5.48	113.92	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C5	28	THR	CB-CA-C	5.48	121.19	110.67
1	MO	13	GLU	CA-C-O	-5.48	114.72	120.80
1	Mg	13	GLU	CA-C-O	-5.48	114.72	120.80
1	Cl	28	THR	CB-CA-C	5.48	121.18	110.67
1	Hq	50	VAL	CA-C-O	-5.48	115.29	121.75
1	CQ	28	THR	CB-CA-C	5.47	121.18	110.67
3	XK	630	ASN	N-CA-C	-5.47	105.40	113.61
1	CW	28	THR	CB-CA-C	5.47	121.18	110.67
1	Jb	53	GLU	CA-C-O	-5.47	115.69	121.88
1	Ax	49	LEU	CA-C-O	-5.47	114.45	120.36
1	Lt	31	ALA	CA-C-O	-5.47	115.42	121.28
1	Fo	53	GLU	CA-C-O	-5.47	115.26	121.72
1	Jk	53	GLU	CA-C-O	-5.47	115.69	121.88
1	As	78	ALA	N-CA-C	-5.47	98.71	108.13
1	Hs	50	VAL	CA-C-O	-5.47	115.29	121.75
1	Jq	53	GLU	CA-C-O	-5.47	115.69	121.88
1	C2	28	THR	CB-CA-C	5.47	121.18	110.67
1	C4	28	THR	CB-CA-C	5.47	121.18	110.67
1	O8	13	GLU	CA-C-O	-5.47	114.91	120.71
1	MQ	13	GLU	CA-C-O	-5.47	114.73	120.80
1	CJ	28	THR	CB-CA-C	5.47	121.18	110.67
1	CL	28	THR	CB-CA-C	5.47	121.18	110.67
1	JN	53	GLU	CA-C-O	-5.47	115.70	121.88
1	ON	13	GLU	CA-C-O	-5.47	114.91	120.71
1	Ch	28	THR	CB-CA-C	5.47	121.18	110.67
1	Ci	28	THR	CB-CA-C	5.47	121.18	110.67
1	Mh	13	GLU	CA-C-O	-5.47	114.73	120.80
1	AV	78	ALA	N-CA-C	-5.47	98.72	108.13
1	CV	28	THR	CB-CA-C	5.47	121.18	110.67
1	Nc	96	PRO	N-CA-C	-5.47	106.73	113.84
1	Hw	50	VAL	CA-C-O	-5.47	115.29	121.75
3	Yv	719	LEU	N-CA-C	5.47	117.90	110.35
1	Jl	53	GLU	CA-C-O	-5.47	115.70	121.88
1	Or	13	GLU	CA-C-O	-5.47	114.91	120.71
1	HB	50	VAL	CA-C-O	-5.47	115.29	121.75
2	P5	27	VAL	CA-C-O	-5.47	116.28	121.64
2	P0	27	VAL	CA-C-O	-5.47	116.28	121.64
1	HQ	50	VAL	CA-C-O	-5.47	115.29	121.75
1	CH	28	THR	CB-CA-C	5.47	121.17	110.67
2	PF	27	VAL	CA-C-O	-5.47	116.28	121.64
1	MX	13	GLU	CA-C-O	-5.47	114.73	120.80
1	Aj	49	LEU	CA-C-O	-5.47	114.45	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CD	28	THR	CB-CA-C	5.47	121.17	110.67
1	LD	31	ALA	CA-C-O	-5.47	115.43	121.28
1	MB	13	GLU	CA-C-O	-5.47	114.73	120.80
3	YC	788	GLU	CB-CG-CD	5.47	121.90	112.60
1	HT	50	VAL	CA-C-O	-5.47	115.30	121.75
1	Hg	50	VAL	CA-C-O	-5.47	115.30	121.75
1	AW	78	ALA	N-CA-C	-5.47	98.72	108.13
1	OW	13	GLU	CA-C-O	-5.47	114.91	120.71
1	OY	13	GLU	CA-C-O	-5.47	114.91	120.71
1	Ad	49	LEU	CA-C-O	-5.47	114.45	120.36
1	Au	78	ALA	N-CA-C	-5.47	98.72	108.13
1	Aw	49	LEU	CA-C-O	-5.47	114.45	120.36
1	Mo	13	GLU	CA-C-O	-5.47	114.73	120.80
1	Jp	53	GLU	CA-C-O	-5.47	115.70	121.88
1	Jr	53	GLU	CA-C-O	-5.47	115.70	121.88
1	JE	53	GLU	CA-C-O	-5.47	115.70	121.88
1	A3	49	LEU	CA-C-O	-5.47	114.45	120.36
1	K8	24	ALA	CA-C-O	-5.47	114.62	120.42
1	MP	13	GLU	CA-C-O	-5.47	114.73	120.80
1	OG	13	GLU	CA-C-O	-5.47	114.91	120.71
3	Yg	788	GLU	CB-CG-CD	5.47	121.89	112.60
1	Cw	28	THR	CB-CA-C	5.47	121.17	110.67
1	CA	28	THR	CB-CA-C	5.47	121.16	110.67
1	K4	78	ALA	N-CA-C	-5.47	99.99	108.90
1	C7	28	THR	CB-CA-C	5.47	121.17	110.67
1	O7	13	GLU	CA-C-O	-5.47	114.92	120.71
1	CP	28	THR	CB-CA-C	5.47	121.16	110.67
1	AG	78	ALA	N-CA-C	-5.47	98.73	108.13
1	AH	78	ALA	N-CA-C	-5.47	98.73	108.13
1	OM	13	GLU	CA-C-O	-5.47	114.92	120.71
1	HX	50	VAL	CA-C-O	-5.47	115.30	121.75
1	Ab	78	ALA	N-CA-C	-5.47	98.73	108.13
1	Bu	73	ASP	N-CA-C	-5.47	106.38	113.16
1	Cq	28	THR	CB-CA-C	5.47	121.17	110.67
1	Iq	16	GLY	CA-C-O	-5.47	117.07	121.77
1	AE	78	ALA	N-CA-C	-5.46	98.73	108.13
1	JT	53	GLU	CA-C-O	-5.46	115.71	121.88
1	HO	50	VAL	CA-C-O	-5.46	115.30	121.75
1	MM	13	GLU	CA-C-O	-5.46	114.73	120.80
1	Cx	28	THR	CB-CA-C	5.46	121.16	110.67
1	A7	78	ALA	N-CA-C	-5.46	98.73	108.13
1	AR	78	ALA	N-CA-C	-5.46	98.73	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Bi	73	ASP	N-CA-C	-5.46	106.39	113.16
1	Gg	83	ARG	CA-C-O	-5.46	114.45	120.30
1	Jg	53	GLU	CA-C-O	-5.46	115.71	121.88
3	Yl	788	GLU	CB-CG-CD	5.46	121.89	112.60
1	Dq	42	GLY	N-CA-C	-5.46	106.17	112.29
1	MI	13	GLU	CA-C-O	-5.46	114.74	120.80
1	J1	53	GLU	CA-C-O	-5.46	115.71	121.88
1	F9	53	GLU	CA-C-O	-5.46	115.28	121.72
1	DQ	13	GLU	CA-C-O	-5.46	114.92	120.71
1	IN	16	GLY	CA-C-O	-5.46	117.07	121.77
1	Lh	31	ALA	CA-C-O	-5.46	115.44	121.28
1	Hd	57	VAL	CA-C-O	-5.46	115.27	120.95
1	Lw	31	ALA	CA-C-O	-5.46	115.44	121.28
1	Am	49	LEU	CA-C-O	-5.46	114.46	120.36
1	Gm	83	ARG	CA-C-O	-5.46	114.46	120.30
1	AG	49	LEU	CA-C-O	-5.46	114.46	120.36
1	FZ	53	GLU	CA-C-O	-5.46	115.28	121.72
1	JW	53	GLU	CA-C-O	-5.46	115.71	121.88
1	AU	49	LEU	CA-C-O	-5.46	114.46	120.36
1	Mt	13	GLU	CA-C-O	-5.46	114.74	120.80
1	D4	30	ALA	N-CA-C	5.46	117.31	111.36
1	IQ	16	GLY	CA-C-O	-5.46	117.08	121.77
1	JP	53	GLU	CA-C-O	-5.46	115.71	121.88
1	KQ	24	ALA	CA-C-O	-5.46	114.63	120.42
1	LS	31	ALA	CA-C-O	-5.46	115.44	121.28
1	AJ	78	ALA	N-CA-C	-5.46	98.74	108.13
1	CK	28	THR	CB-CA-C	5.46	121.15	110.67
1	GK	83	ARG	CA-C-O	-5.46	114.46	120.30
2	PK	27	VAL	CA-C-O	-5.46	116.29	121.64
1	AN	49	LEU	CA-C-O	-5.46	114.47	120.36
1	FO	53	GLU	CA-C-O	-5.46	115.28	121.72
1	Ag	49	LEU	CA-C-O	-5.46	114.46	120.36
1	At	78	ALA	N-CA-C	-5.46	98.74	108.13
1	Oj	13	GLU	CA-C-O	-5.46	114.92	120.71
1	CB	28	THR	CB-CA-C	5.46	121.15	110.67
1	FB	53	GLU	CA-C-O	-5.46	115.28	121.72
1	A5	78	ALA	N-CA-C	-5.46	98.75	108.13
1	FQ	53	GLU	CA-C-O	-5.46	115.28	121.72
1	AK	78	ALA	N-CA-C	-5.46	98.75	108.13
1	CI	28	THR	CB-CA-C	5.46	121.15	110.67
1	BL	73	ASP	N-CA-C	-5.46	106.39	113.16
1	Ae	78	ALA	N-CA-C	-5.46	98.75	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ag	78	ALA	N-CA-C	-5.46	98.74	108.13
1	Ff	53	GLU	CA-C-O	-5.46	115.28	121.72
1	LY	31	ALA	CA-C-O	-5.46	115.44	121.28
1	Ad	78	ALA	N-CA-C	-5.46	98.75	108.13
1	Ka	24	ALA	CA-C-O	-5.46	114.64	120.42
1	Lu	31	ALA	CA-C-O	-5.46	115.44	121.28
1	Ck	28	THR	CB-CA-C	5.46	121.15	110.67
1	Kp	24	ALA	CA-C-O	-5.46	114.64	120.42
3	XY	716	PRO	N-CA-C	-5.46	106.28	113.65
3	XJ	716	PRO	N-CA-C	-5.46	106.28	113.65
1	Km	78	ALA	N-CA-C	-5.46	100.01	108.90
1	FJ	53	GLU	CA-C-O	-5.46	115.28	121.72
1	Ak	78	ALA	N-CA-C	-5.46	98.75	108.13
1	Aq	78	ALA	N-CA-C	-5.46	98.75	108.13
1	KB	78	ALA	N-CA-C	-5.45	100.01	108.90
1	A2	78	ALA	N-CA-C	-5.45	98.75	108.13
1	J5	53	GLU	CA-C-O	-5.45	115.72	121.88
1	N8	96	PRO	N-CA-C	-5.45	106.75	113.84
1	KQ	78	ALA	N-CA-C	-5.45	100.01	108.90
1	JK	53	GLU	CA-C-O	-5.45	115.72	121.88
1	AL	49	LEU	CA-C-O	-5.45	114.47	120.36
1	CM	28	THR	CB-CA-C	5.45	121.14	110.67
1	Ai	78	ALA	N-CA-C	-5.45	98.75	108.13
1	Fi	53	GLU	CA-C-O	-5.45	115.28	121.72
1	Kf	24	ALA	CA-C-O	-5.45	114.64	120.42
1	Lg	31	ALA	CA-C-O	-5.45	115.44	121.28
1	Mc	13	GLU	CA-C-O	-5.45	114.75	120.80
3	Yv	788	GLU	CB-CG-CD	5.45	121.87	112.60
1	AA	49	LEU	CA-C-O	-5.45	114.47	120.36
1	FE	53	GLU	CA-C-O	-5.45	115.29	121.72
1	A0	78	ALA	N-CA-C	-5.45	98.75	108.13
1	CS	28	THR	CB-CA-C	5.45	121.14	110.67
1	BK	73	ASP	N-CA-C	-5.45	106.40	113.16
1	AF	78	ALA	N-CA-C	-5.45	98.75	108.13
1	Kg	24	ALA	CA-C-O	-5.45	114.64	120.42
1	KY	78	ALA	N-CA-C	-5.45	100.01	108.90
1	MZ	13	GLU	CA-C-O	-5.45	114.75	120.80
1	Kv	24	ALA	CA-C-O	-5.45	114.64	120.42
1	Al	78	ALA	N-CA-C	-5.45	98.75	108.13
1	Kn	78	ALA	N-CA-C	-5.45	100.01	108.90
1	JU	53	GLU	CA-C-O	-5.45	115.72	121.88
1	AA	78	ALA	N-CA-C	-5.45	98.76	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AB	78	ALA	N-CA-C	-5.45	98.76	108.13
1	AD	78	ALA	N-CA-C	-5.45	98.75	108.13
1	A1	78	ALA	N-CA-C	-5.45	98.75	108.13
1	J0	53	GLU	CA-C-O	-5.45	115.72	121.88
1	K9	78	ALA	N-CA-C	-5.45	100.01	108.90
1	AQ	78	ALA	N-CA-C	-5.45	98.76	108.13
1	KO	78	ALA	N-CA-C	-5.45	100.01	108.90
1	Ji	53	GLU	CA-C-O	-5.45	115.72	121.88
1	Nf	96	PRO	N-CA-C	-5.45	106.75	113.84
1	Cb	28	THR	CB-CA-C	5.45	121.14	110.67
1	Ib	16	GLY	CA-C-O	-5.45	117.08	121.77
1	Kd	24	ALA	CA-C-O	-5.45	114.64	120.42
3	Ym	788	GLU	CB-CG-CD	5.45	121.86	112.60
1	Br	73	ASP	N-CA-C	-5.45	106.40	113.16
1	Kr	24	ALA	CA-C-O	-5.45	114.64	120.42
1	GC	83	ARG	CA-C-O	-5.45	114.47	120.30
1	MA	13	GLU	CA-C-O	-5.45	114.75	120.80
1	F3	53	GLU	CA-C-O	-5.45	115.29	121.72
1	F5	53	GLU	CA-C-O	-5.45	115.29	121.72
1	A0	49	LEU	CA-C-O	-5.45	114.48	120.36
1	N6	96	PRO	N-CA-C	-5.45	106.76	113.84
1	AP	78	ALA	N-CA-C	-5.45	98.76	108.13
1	AT	78	ALA	N-CA-C	-5.45	98.76	108.13
1	FT	53	GLU	CA-C-O	-5.45	115.29	121.72
1	GR	83	ARG	CA-C-O	-5.45	114.47	120.30
1	FK	53	GLU	CA-C-O	-5.45	115.29	121.72
1	KJ	78	ALA	N-CA-C	-5.45	100.02	108.90
1	MH	13	GLU	CA-C-O	-5.45	114.75	120.80
1	AF	49	LEU	CA-C-O	-5.45	114.48	120.36
1	KL	24	ALA	CA-C-O	-5.45	114.64	120.42
1	Bf	73	ASP	N-CA-C	-5.45	106.41	113.16
1	BV	73	ASP	N-CA-C	-5.45	106.40	113.16
1	KZ	78	ALA	N-CA-C	-5.45	100.02	108.90
3	XZ	630	ASN	N-CA-C	-5.45	105.44	113.61
1	Hu	50	VAL	CA-C-O	-5.45	115.32	121.75
3	Xo	630	ASN	N-CA-C	-5.45	105.44	113.61
1	KS	78	ALA	N-CA-C	-5.45	100.02	108.90
1	Aa	78	ALA	N-CA-C	-5.45	98.76	108.13
1	Mw	13	GLU	CA-C-O	-5.45	114.75	120.80
1	HC	50	VAL	CA-C-O	-5.45	115.32	121.75
1	HD	50	VAL	CA-C-O	-5.45	115.33	121.75
1	A6	78	ALA	N-CA-C	-5.45	98.76	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	YR	788	GLU	CB-CG-CD	5.45	121.86	112.60
1	Ai	49	LEU	CA-C-O	-5.45	114.48	120.36
1	AX	78	ALA	N-CA-C	-5.45	98.77	108.13
1	AY	78	ALA	N-CA-C	-5.45	98.76	108.13
1	AZ	49	LEU	CA-C-O	-5.45	114.48	120.36
1	Ea	73	ASP	CB-CA-C	5.45	121.37	109.99
1	Hd	50	VAL	CA-C-O	-5.45	115.33	121.75
1	Ob	13	GLU	CA-C-O	-5.45	114.94	120.71
1	Ku	24	ALA	CA-C-O	-5.45	114.65	120.42
1	Nu	96	PRO	N-CA-C	-5.45	106.76	113.84
1	Ao	49	LEU	CA-C-O	-5.45	114.48	120.36
3	Xn	621	VAL	CB-CA-C	-5.45	104.94	112.24
1	A6	49	LEU	CA-C-O	-5.44	114.48	120.36
1	A8	78	ALA	N-CA-C	-5.44	98.77	108.13
1	FP	53	GLU	CA-C-O	-5.44	115.30	121.72
1	AM	49	LEU	CA-C-O	-5.44	114.48	120.36
1	Ac	78	ALA	N-CA-C	-5.44	98.77	108.13
1	Kd	78	ALA	N-CA-C	-5.44	100.03	108.90
1	Ax	78	ALA	N-CA-C	-5.44	98.77	108.13
1	Ku	78	ALA	N-CA-C	-5.44	100.03	108.90
2	Px	63	GLY	CA-C-O	-5.44	115.20	119.83
1	Kq	78	ALA	N-CA-C	-5.44	100.03	108.90
1	Lm	54	THR	N-CA-C	5.44	117.66	111.02
1	K9	24	ALA	CA-C-O	-5.44	114.65	120.42
1	KO	24	ALA	CA-C-O	-5.44	114.65	120.42
1	HZ	50	VAL	CA-C-O	-5.44	115.33	121.75
1	JZ	53	GLU	CA-C-O	-5.44	115.73	121.88
1	Ga	83	ARG	CA-C-O	-5.44	114.48	120.30
1	Kc	24	ALA	CA-C-O	-5.44	114.65	120.42
1	Kc	78	ALA	N-CA-C	-5.44	100.03	108.90
1	Bv	73	ASP	N-CA-C	-5.44	106.41	113.16
1	Ju	53	GLU	CA-C-O	-5.44	115.73	121.88
2	Pw	8	LYS	N-CA-C	5.44	117.12	108.79
1	An	78	ALA	N-CA-C	-5.44	98.77	108.13
1	Bk	73	ASP	N-CA-C	-5.44	106.41	113.16
1	Jo	53	GLU	CA-C-O	-5.44	115.73	121.88
1	Ol	13	GLU	CA-C-O	-5.44	114.94	120.71
1	Gr	83	ARG	CA-C-O	-5.44	114.48	120.30
1	B8	73	ASP	N-CA-C	-5.44	106.41	113.16
1	H9	50	VAL	CA-C-O	-5.44	115.33	121.75
1	N7	96	PRO	N-CA-C	-5.44	106.77	113.84
1	FH	53	GLU	CA-C-O	-5.44	115.30	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	LH	31	ALA	CA-C-O	-5.44	115.46	121.28
1	Ce	28	THR	CB-CA-C	5.44	121.11	110.67
1	Hh	50	VAL	CA-C-O	-5.44	115.33	121.75
1	Ie	16	GLY	CA-C-O	-5.44	117.09	121.77
1	AU	78	ALA	N-CA-C	-5.44	98.77	108.13
1	Nd	96	PRO	N-CA-C	-5.44	106.77	113.84
1	Bx	73	ASP	N-CA-C	-5.44	106.42	113.16
1	Ex	73	ASP	CB-CA-C	5.44	121.36	109.99
1	Nk	96	PRO	N-CA-C	-5.44	106.77	113.84
1	Nq	96	PRO	N-CA-C	-5.44	106.77	113.84
1	Fl	53	GLU	CA-C-O	-5.44	115.30	121.72
1	BE	73	ASP	N-CA-C	-5.44	106.42	113.16
1	G3	83	ARG	CA-C-O	-5.44	114.48	120.30
1	BT	73	ASP	N-CA-C	-5.44	106.42	113.16
1	GI	83	ARG	CA-C-O	-5.44	114.48	120.30
1	BN	73	ASP	N-CA-C	-5.44	106.42	113.16
1	Le	31	ALA	CA-C-O	-5.44	115.46	121.28
1	Bc	73	ASP	N-CA-C	-5.44	106.42	113.16
1	KU	84	VAL	N-CA-C	-5.44	104.12	110.05
1	Ao	78	ALA	N-CA-C	-5.44	98.78	108.13
1	JB	53	GLU	CA-C-O	-5.44	115.74	121.88
1	A1	49	LEU	CA-C-O	-5.44	114.49	120.36
1	B6	73	ASP	N-CA-C	-5.44	106.42	113.16
1	E6	73	ASP	CB-CA-C	5.44	121.35	109.99
1	F0	53	GLU	CA-C-O	-5.44	115.30	121.72
1	HI	50	VAL	CA-C-O	-5.44	115.33	121.75
1	Jf	53	GLU	CA-C-O	-5.44	115.74	121.88
1	Kf	78	ALA	N-CA-C	-5.44	100.04	108.90
2	Pe	27	VAL	CA-C-O	-5.44	116.31	121.64
1	BZ	73	ASP	N-CA-C	-5.44	106.42	113.16
1	JV	53	GLU	CA-C-O	-5.44	115.73	121.88
1	LX	31	ALA	CA-C-O	-5.44	115.46	121.28
1	BU	73	ASP	N-CA-C	-5.44	106.42	113.16
1	FU	53	GLU	CA-C-O	-5.44	115.30	121.72
1	As	49	LEU	CA-C-O	-5.44	114.49	120.36
1	Dh	74	GLY	N-CA-C	5.44	117.96	110.56
1	B0	73	ASP	N-CA-C	-5.44	106.42	113.16
1	BQ	73	ASP	N-CA-C	-5.44	106.42	113.16
1	AI	78	ALA	N-CA-C	-5.44	98.78	108.13
1	BF	73	ASP	N-CA-C	-5.44	106.42	113.16
1	HM	50	VAL	CA-C-O	-5.44	115.33	121.75
1	Hg	57	VAL	CA-C-O	-5.44	115.30	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AZ	78	ALA	N-CA-C	-5.44	98.78	108.13
1	Hb	50	VAL	CA-C-O	-5.44	115.33	121.75
1	Av	78	ALA	N-CA-C	-5.44	98.78	108.13
1	Hv	57	VAL	CA-C-O	-5.44	115.30	120.95
1	Ho	50	VAL	CA-C-O	-5.44	115.34	121.75
1	Kj	84	VAL	N-CA-C	-5.44	104.12	110.05
1	Ks	78	ALA	N-CA-C	-5.44	100.04	108.90
3	X4	716	PRO	N-CA-C	-5.44	106.31	113.65
1	BB	73	ASP	N-CA-C	-5.43	106.42	113.16
1	KD	78	ALA	N-CA-C	-5.43	100.04	108.90
1	A3	78	ALA	N-CA-C	-5.43	98.78	108.13
1	A4	78	ALA	N-CA-C	-5.43	98.78	108.13
1	G8	83	ARG	CA-C-O	-5.43	114.49	120.30
1	AR	49	LEU	CA-C-O	-5.43	114.49	120.36
1	KT	84	VAL	N-CA-C	-5.43	104.13	110.05
1	JJ	53	GLU	CA-C-O	-5.43	115.74	121.88
1	KF	84	VAL	N-CA-C	-5.43	104.13	110.05
1	NN	96	PRO	N-CA-C	-5.43	106.78	113.84
1	Na	96	PRO	N-CA-C	-5.43	106.78	113.84
1	Bt	73	ASP	N-CA-C	-5.43	106.42	113.16
1	Ev	73	ASP	CB-CA-C	5.43	121.35	109.99
1	Kw	78	ALA	N-CA-C	-5.43	100.04	108.90
1	In	16	GLY	CA-C-O	-5.43	117.10	121.77
1	Ko	84	VAL	N-CA-C	-5.43	104.13	110.05
1	Em	73	ASP	CB-CA-C	5.43	121.35	109.99
1	JF	53	GLU	CA-C-O	-5.43	115.74	121.88
1	AC	78	ALA	N-CA-C	-5.43	98.79	108.13
1	GE	83	ARG	CA-C-O	-5.43	114.49	120.30
1	N3	96	PRO	N-CA-C	-5.43	106.78	113.84
1	F7	53	GLU	CA-C-O	-5.43	115.31	121.72
1	K8	78	ALA	N-CA-C	-5.43	100.05	108.90
1	GT	83	ARG	CA-C-O	-5.43	114.49	120.30
1	KN	78	ALA	N-CA-C	-5.43	100.05	108.90
1	Kh	78	ALA	N-CA-C	-5.43	100.05	108.90
1	GW	18	VAL	CA-C-N	-5.43	113.02	119.05
1	GW	18	VAL	C-N-CA	-5.43	113.02	119.05
1	Ct	28	THR	CB-CA-C	5.43	121.10	110.67
1	Ft	53	GLU	CA-C-O	-5.43	115.31	121.72
1	Hm	50	VAL	CA-C-O	-5.43	115.34	121.75
1	Ap	78	ALA	N-CA-C	-5.43	98.78	108.13
1	Ar	78	ALA	N-CA-C	-5.43	98.79	108.13
1	HA	50	VAL	CA-C-O	-5.43	115.34	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B3	73	ASP	N-CA-C	-5.43	106.43	113.16
1	B7	73	ASP	N-CA-C	-5.43	106.43	113.16
1	BG	73	ASP	N-CA-C	-5.43	106.43	113.16
1	Bg	73	ASP	N-CA-C	-5.43	106.42	113.16
1	Ba	73	ASP	N-CA-C	-5.43	106.42	113.16
1	Oc	13	GLU	CA-C-O	-5.43	114.95	120.71
1	Nv	96	PRO	N-CA-C	-5.43	106.78	113.84
1	Kk	24	ALA	CA-C-O	-5.43	114.66	120.42
1	Bp	73	ASP	N-CA-C	-5.43	106.42	113.16
1	AE	49	LEU	CA-C-O	-5.43	114.50	120.36
1	JA	53	GLU	CA-C-O	-5.43	115.74	121.88
1	G5	83	ARG	CA-C-O	-5.43	114.49	120.30
1	H0	50	VAL	CA-C-O	-5.43	115.34	121.75
1	AP	49	LEU	CA-C-O	-5.43	114.50	120.36
1	AS	78	ALA	N-CA-C	-5.43	98.79	108.13
1	AT	49	LEU	CA-C-O	-5.43	114.50	120.36
1	HI	57	VAL	CA-C-O	-5.43	115.30	120.95
1	IK	16	GLY	CA-C-O	-5.43	117.10	121.77
1	AL	78	ALA	N-CA-C	-5.43	98.79	108.13
2	Ph	8	LYS	N-CA-C	5.43	117.10	108.79
1	Hc	57	VAL	CA-C-O	-5.43	115.30	120.95
1	KU	78	ALA	N-CA-C	-5.43	100.05	108.90
2	PU	27	VAL	CA-C-O	-5.43	116.32	121.64
1	Aw	78	ALA	N-CA-C	-5.43	98.79	108.13
1	Bs	73	ASP	N-CA-C	-5.43	106.43	113.16
1	Ep	73	ASP	CB-CA-C	5.43	121.34	109.99
1	Hj	50	VAL	CA-C-O	-5.43	115.34	121.75
1	Hr	57	VAL	CA-C-O	-5.43	115.30	120.95
1	Kq	24	ALA	CA-C-O	-5.43	114.67	120.42
1	Np	96	PRO	N-CA-C	-5.43	106.78	113.84
1	FA	53	GLU	CA-C-O	-5.43	115.31	121.72
1	NA	96	PRO	N-CA-C	-5.43	106.78	113.84
1	F4	53	GLU	CA-C-O	-5.43	115.31	121.72
1	H8	57	VAL	CA-C-O	-5.43	115.30	120.95
1	HN	57	VAL	CA-C-O	-5.43	115.30	120.95
3	YM	800	TRP	CA-CB-CG	5.43	123.91	113.60
1	AV	49	LEU	CA-C-O	-5.43	114.50	120.36
1	HD	57	VAL	CA-C-O	-5.43	115.31	120.95
1	B1	73	ASP	N-CA-C	-5.43	106.43	113.16
1	F2	53	GLU	CA-C-O	-5.43	115.32	121.72
1	I3	16	GLY	CA-C-O	-5.43	117.10	121.77
1	L4	31	ALA	CA-C-O	-5.43	115.47	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H8	50	VAL	CA-C-O	-5.43	115.35	121.75
1	K6	24	ALA	CA-C-O	-5.43	114.67	120.42
1	NT	96	PRO	N-CA-C	-5.43	106.78	113.84
1	JH	53	GLU	CA-C-O	-5.43	115.75	121.88
1	LJ	31	ALA	CA-C-O	-5.43	115.47	121.28
1	GN	83	ARG	CA-C-O	-5.43	114.49	120.30
1	HN	50	VAL	CA-C-O	-5.43	115.35	121.75
1	Ah	78	ALA	N-CA-C	-5.43	98.80	108.13
1	KX	78	ALA	N-CA-C	-5.43	100.05	108.90
1	NX	96	PRO	N-CA-C	-5.43	106.79	113.84
1	Fb	53	GLU	CA-C-O	-5.43	115.32	121.72
1	Kb	78	ALA	N-CA-C	-5.43	100.06	108.90
1	Im	16	GLY	CA-C-O	-5.43	117.10	121.77
1	Aj	78	ALA	N-CA-C	-5.43	98.80	108.13
1	Fq	53	GLU	CA-C-O	-5.43	115.32	121.72
1	Nm	96	PRO	N-CA-C	-5.43	106.79	113.84
1	IB	16	GLY	CA-C-O	-5.42	117.11	121.77
1	K2	24	ALA	CA-C-O	-5.42	114.67	120.42
1	K2	78	ALA	N-CA-C	-5.42	100.06	108.90
1	A9	78	ALA	N-CA-C	-5.42	98.80	108.13
1	K7	78	ALA	N-CA-C	-5.42	100.06	108.90
1	HP	50	VAL	CA-C-O	-5.42	115.35	121.75
1	BI	73	ASP	N-CA-C	-5.42	106.43	113.16
1	AN	78	ALA	N-CA-C	-5.42	98.80	108.13
1	KM	78	ALA	N-CA-C	-5.42	100.06	108.90
3	XF	697	SER	N-CA-C	-5.42	105.37	111.28
1	Ae	49	LEU	CA-C-O	-5.42	114.50	120.36
1	Ei	73	ASP	CB-CA-C	5.42	121.33	109.99
1	Bd	73	ASP	N-CA-C	-5.42	106.43	113.16
1	Gw	83	ARG	CA-C-O	-5.42	114.50	120.30
1	Iu	16	GLY	CA-C-O	-5.42	117.11	121.77
1	Bl	73	ASP	N-CA-C	-5.42	106.43	113.16
1	Nr	96	PRO	N-CA-C	-5.42	106.79	113.84
1	LI	31	ALA	CA-C-O	-5.42	115.48	121.28
1	NI	96	PRO	N-CA-C	-5.42	106.79	113.84
1	NE	96	PRO	N-CA-C	-5.42	106.79	113.84
1	Am	78	ALA	N-CA-C	-5.42	98.80	108.13
1	Ko	78	ALA	N-CA-C	-5.42	100.06	108.90
1	El	73	ASP	CB-CA-C	5.42	121.32	109.99
1	NC	96	PRO	N-CA-C	-5.42	106.79	113.84
2	PD	8	LYS	N-CA-C	5.42	117.08	108.79
1	F6	53	GLU	CA-C-O	-5.42	115.32	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G6	83	ARG	CA-C-O	-5.42	114.50	120.30
1	I8	16	GLY	CA-C-O	-5.42	117.11	121.77
3	X0	697	SER	N-CA-C	-5.42	105.37	111.28
1	HS	57	VAL	CA-C-O	-5.42	115.31	120.95
1	NR	96	PRO	N-CA-C	-5.42	106.79	113.84
2	PS	8	LYS	N-CA-C	5.42	117.08	108.79
1	BH	73	ASP	N-CA-C	-5.42	106.44	113.16
1	FI	53	GLU	CA-C-O	-5.42	115.32	121.72
1	AO	78	ALA	N-CA-C	-5.42	98.81	108.13
1	GL	83	ARG	CA-C-O	-5.42	114.50	120.30
1	KF	78	ALA	N-CA-C	-5.42	100.06	108.90
1	NM	96	PRO	N-CA-C	-5.42	106.79	113.84
1	Eh	73	ASP	CB-CA-C	5.42	121.32	109.99
1	Hb	57	VAL	CA-C-O	-5.42	115.31	120.95
1	Bo	73	ASP	N-CA-C	-5.42	106.44	113.16
1	Hq	57	VAL	CA-C-O	-5.42	115.31	120.95
1	FL	53	GLU	CA-C-O	-5.42	115.32	121.72
1	Fh	30	ALA	N-CA-C	5.42	117.27	111.36
1	Jm	53	GLU	CA-C-O	-5.42	115.75	121.88
1	BA	73	ASP	N-CA-C	-5.42	106.44	113.16
1	ND	96	PRO	N-CA-C	-5.42	106.79	113.84
1	E8	73	ASP	CB-CA-C	5.42	121.32	109.99
1	BP	73	ASP	N-CA-C	-5.42	106.44	113.16
1	OS	13	GLU	CA-C-O	-5.42	114.97	120.71
1	KK	84	VAL	N-CA-C	-5.42	104.14	110.05
1	NH	96	PRO	N-CA-C	-5.42	106.79	113.84
1	Be	73	ASP	N-CA-C	-5.42	106.44	113.16
1	CY	21	ILE	N-CA-C	-5.42	105.25	110.72
1	NW	96	PRO	N-CA-C	-5.42	106.79	113.84
1	At	49	LEU	CA-C-O	-5.42	114.51	120.36
1	BC	73	ASP	N-CA-C	-5.42	106.44	113.16
1	F1	53	GLU	CA-C-O	-5.42	115.33	121.72
1	I7	16	GLY	CA-C-O	-5.42	117.11	121.77
1	BR	73	ASP	N-CA-C	-5.42	106.44	113.16
1	HS	50	VAL	CA-C-O	-5.42	115.36	121.75
1	EK	73	ASP	CB-CA-C	5.42	121.32	109.99
1	FG	53	GLU	CA-C-O	-5.42	115.33	121.72
1	KH	78	ALA	N-CA-C	-5.42	100.07	108.90
1	IM	16	GLY	CA-C-O	-5.42	117.11	121.77
1	Ig	16	GLY	CA-C-O	-5.42	117.11	121.77
1	BX	73	ASP	N-CA-C	-5.42	106.44	113.16
1	Bm	73	ASP	N-CA-C	-5.42	106.44	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Gk	83	ARG	CA-C-O	-5.42	114.50	120.30
1	Oq	13	GLU	CA-C-O	-5.42	114.97	120.71
3	Xj	697	SER	N-CA-C	-5.42	105.37	111.28
1	D6	13	GLU	CA-C-O	-5.42	114.78	120.80
1	HE	50	VAL	CA-C-O	-5.42	115.36	121.75
1	KE	84	VAL	N-CA-C	-5.42	104.14	110.05
1	H2	50	VAL	CA-C-O	-5.42	115.36	121.75
1	I5	16	GLY	CA-C-O	-5.42	117.11	121.77
1	K4	24	ALA	CA-C-O	-5.42	114.68	120.42
1	K0	78	ALA	N-CA-C	-5.42	100.07	108.90
1	K6	78	ALA	N-CA-C	-5.42	100.07	108.90
1	KK	78	ALA	N-CA-C	-5.42	100.07	108.90
1	KL	78	ALA	N-CA-C	-5.42	100.07	108.90
1	Ee	73	ASP	CB-CA-C	5.42	121.31	109.99
1	Ef	73	ASP	CB-CA-C	5.42	121.31	109.99
1	Fe	53	GLU	CA-C-O	-5.42	115.33	121.72
1	AX	49	LEU	CA-C-O	-5.42	114.51	120.36
1	HY	50	VAL	CA-C-O	-5.42	115.36	121.75
1	Gc	83	ARG	CA-C-O	-5.42	114.50	120.30
1	Hc	50	VAL	CA-C-O	-5.42	115.36	121.75
1	Ka	78	ALA	N-CA-C	-5.42	100.07	108.90
1	Kx	78	ALA	N-CA-C	-5.42	100.07	108.90
1	Eo	73	ASP	CB-CA-C	5.42	121.31	109.99
1	Ko	24	ALA	CA-C-O	-5.42	114.68	120.42
1	Kj	78	ALA	N-CA-C	-5.42	100.07	108.90
1	Kp	78	ALA	N-CA-C	-5.42	100.07	108.90
1	Kr	78	ALA	N-CA-C	-5.42	100.07	108.90
3	X0	631	GLU	N-CA-C	5.42	117.18	111.28
1	BM	73	ASP	N-CA-C	-5.42	106.45	113.16
3	XF	631	GLU	N-CA-C	5.42	117.18	111.28
1	NV	96	PRO	N-CA-C	-5.42	106.80	113.84
1	Eb	73	ASP	CB-CA-C	5.42	121.31	109.99
1	Et	73	ASP	CB-CA-C	5.42	121.31	109.99
1	Lk	10	GLY	CA-C-O	-5.42	116.72	120.94
1	Jj	53	GLU	CA-C-O	-5.42	115.76	121.88
1	Ns	96	PRO	N-CA-C	-5.42	106.80	113.84
1	EE	73	ASP	CB-CA-C	5.41	121.30	109.99
1	HC	57	VAL	CA-C-O	-5.41	115.32	120.95
3	YC	800	TRP	CA-CB-CG	5.41	123.89	113.60
1	G1	83	ARG	CA-C-O	-5.41	114.51	120.30
1	H3	50	VAL	CA-C-O	-5.41	115.36	121.75
1	L2	31	ALA	CA-C-O	-5.41	115.49	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E0	73	ASP	CB-CA-C	5.41	121.31	109.99
1	JM	53	GLU	CA-C-O	-5.41	115.76	121.88
1	Fg	53	GLU	CA-C-O	-5.41	115.33	121.72
1	If	16	GLY	CA-C-O	-5.41	117.11	121.77
1	Ng	96	PRO	N-CA-C	-5.41	106.80	113.84
1	Nh	96	PRO	N-CA-C	-5.41	106.80	113.84
1	EX	73	ASP	CB-CA-C	5.41	121.30	109.99
1	EU	73	ASP	CB-CA-C	5.41	121.31	109.99
1	Kb	24	ALA	CA-C-O	-5.41	114.68	120.42
1	Ew	73	ASP	CB-CA-C	5.41	121.30	109.99
3	Yv	800	TRP	CA-CB-CG	5.41	123.89	113.60
1	Hl	50	VAL	CA-C-O	-5.41	115.36	121.75
1	Ll	31	ALA	CA-C-O	-5.41	115.49	121.28
1	Nl	96	PRO	N-CA-C	-5.41	106.80	113.84
1	Ej	73	ASP	CB-CA-C	5.41	121.31	109.99
3	Yr	800	TRP	CA-CB-CG	5.41	123.88	113.60
1	EI	73	ASP	CB-CA-C	5.41	121.30	109.99
3	Xn	716	PRO	N-CA-C	-5.41	106.34	113.65
1	Db	67	ALA	N-CA-C	5.41	117.18	111.28
1	FD	53	GLU	CA-C-O	-5.41	115.33	121.72
1	H7	50	VAL	CA-C-O	-5.41	115.36	121.75
1	FS	53	GLU	CA-C-O	-5.41	115.33	121.72
1	HJ	50	VAL	CA-C-O	-5.41	115.36	121.75
1	LW	31	ALA	CA-C-O	-5.41	115.49	121.28
1	HU	61	VAL	N-CA-C	-5.41	105.25	110.72
1	Nb	96	PRO	N-CA-C	-5.41	106.80	113.84
1	Hx	50	VAL	CA-C-O	-5.41	115.36	121.75
1	Kt	24	ALA	CA-C-O	-5.41	114.68	120.42
1	EB	73	ASP	CB-CA-C	5.41	121.30	109.99
1	B2	73	ASP	N-CA-C	-5.41	106.45	113.16
1	G2	18	VAL	CA-C-N	-5.41	113.04	119.05
1	G2	18	VAL	C-N-CA	-5.41	113.04	119.05
1	K5	78	ALA	N-CA-C	-5.41	100.08	108.90
1	EQ	73	ASP	CB-CA-C	5.41	121.30	109.99
1	KP	78	ALA	N-CA-C	-5.41	100.08	108.90
1	GH	18	VAL	CA-C-N	-5.41	113.04	119.05
1	GH	18	VAL	C-N-CA	-5.41	113.04	119.05
1	IJ	16	GLY	CA-C-O	-5.41	117.12	121.77
1	BO	73	ASP	N-CA-C	-5.41	106.45	113.16
1	Ic	16	GLY	CA-C-O	-5.41	117.12	121.77
1	Bj	73	ASP	N-CA-C	-5.41	106.45	113.16
1	Hs	89	GLU	CA-C-O	-5.41	114.81	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L3	31	ALA	CA-C-O	-5.41	115.49	121.28
1	KA	78	ALA	N-CA-C	-5.41	100.08	108.90
1	KC	24	ALA	CA-C-O	-5.41	114.69	120.42
1	E5	73	ASP	CB-CA-C	5.41	121.29	109.99
1	H1	50	VAL	CA-C-O	-5.41	115.37	121.75
1	H5	50	VAL	CA-C-O	-5.41	115.37	121.75
1	K3	78	ALA	N-CA-C	-5.41	100.08	108.90
1	E7	73	ASP	CB-CA-C	5.41	121.29	109.99
1	EP	73	ASP	CB-CA-C	5.41	121.29	109.99
1	ET	73	ASP	CB-CA-C	5.41	121.29	109.99
1	HK	50	VAL	CA-C-O	-5.41	115.37	121.75
1	Lf	31	ALA	CA-C-O	-5.41	115.49	121.28
1	HV	50	VAL	CA-C-O	-5.41	115.37	121.75
1	JX	53	GLU	CA-C-O	-5.41	115.77	121.88
1	HU	50	VAL	CA-C-O	-5.41	115.37	121.75
1	Jw	53	GLU	CA-C-O	-5.41	115.77	121.88
1	Kx	84	VAL	N-CA-C	-5.41	104.16	110.05
3	Yw	800	TRP	CA-CB-CG	5.41	123.88	113.60
1	Cj	21	ILE	N-CA-C	-5.41	105.26	110.72
1	Fp	53	GLU	CA-C-O	-5.41	115.34	121.72
1	D4	43	GLY	N-CA-C	-5.41	107.78	115.30
1	H4	50	VAL	CA-C-O	-5.41	115.37	121.75
1	N5	96	PRO	N-CA-C	-5.41	106.81	113.84
1	J7	53	GLU	CA-C-O	-5.41	115.77	121.88
1	HP	57	VAL	CA-C-O	-5.41	115.33	120.95
1	IP	16	GLY	CA-C-O	-5.41	117.12	121.77
1	JG	53	GLU	CA-C-O	-5.41	115.77	121.88
1	NK	96	PRO	N-CA-C	-5.41	106.81	113.84
1	Ht	57	VAL	CA-C-O	-5.41	115.33	120.95
1	GA	83	ARG	CA-C-O	-5.41	114.52	120.30
1	KA	24	ALA	CA-C-O	-5.41	114.69	120.42
1	LA	31	ALA	CA-C-O	-5.41	115.50	121.28
3	YD	800	TRP	CA-CB-CG	5.41	123.87	113.60
1	E1	73	ASP	CB-CA-C	5.41	121.29	109.99
1	E2	73	ASP	CB-CA-C	5.41	121.29	109.99
1	GS	83	ARG	CA-C-O	-5.41	114.52	120.30
1	KP	24	ALA	CA-C-O	-5.41	114.69	120.42
1	NS	96	PRO	N-CA-C	-5.41	106.81	113.84
1	EG	73	ASP	CB-CA-C	5.41	121.29	109.99
1	HG	57	VAL	CA-C-O	-5.41	115.33	120.95
1	Eg	73	ASP	CB-CA-C	5.41	121.29	109.99
1	He	57	VAL	CA-C-O	-5.41	115.33	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ne	96	PRO	N-CA-C	-5.41	106.81	113.84
1	KW	78	ALA	N-CA-C	-5.41	100.09	108.90
1	KX	24	ALA	CA-C-O	-5.41	114.69	120.42
1	CU	21	ILE	N-CA-C	-5.41	105.26	110.72
1	Fc	53	GLU	CA-C-O	-5.41	115.34	121.72
1	Nw	96	PRO	N-CA-C	-5.41	106.81	113.84
1	Ek	73	ASP	CB-CA-C	5.41	121.29	109.99
1	En	73	ASP	CB-CA-C	5.41	121.29	109.99
1	Hs	57	VAL	CA-C-O	-5.41	115.33	120.95
1	NL	96	PRO	N-CA-C	-5.41	106.81	113.84
1	KI	24	ALA	CA-C-O	-5.41	114.69	120.42
1	EA	73	ASP	CB-CA-C	5.40	121.28	109.99
2	PE	63	GLY	CA-C-O	-5.40	115.24	119.83
1	JQ	53	GLU	CA-C-O	-5.40	115.77	121.88
1	HL	50	VAL	CA-C-O	-5.40	115.37	121.75
1	KM	24	ALA	CA-C-O	-5.40	114.69	120.42
1	EW	73	ASP	CB-CA-C	5.40	121.28	109.99
1	KV	24	ALA	CA-C-O	-5.40	114.69	120.42
1	Lp	31	ALA	CA-C-O	-5.40	115.50	121.28
1	K1	24	ALA	CA-C-O	-5.40	114.69	120.42
1	K1	78	ALA	N-CA-C	-5.40	100.09	108.90
1	N1	96	PRO	N-CA-C	-5.40	106.82	113.84
1	H7	57	VAL	CA-C-O	-5.40	115.33	120.95
1	K0	84	VAL	N-CA-C	-5.40	104.16	110.05
3	X9	724	ILE	N-CA-C	5.40	117.41	109.63
1	KG	24	ALA	CA-C-O	-5.40	114.69	120.42
1	KG	78	ALA	N-CA-C	-5.40	100.09	108.90
1	NG	96	PRO	N-CA-C	-5.40	106.82	113.84
1	FM	53	GLU	CA-C-O	-5.40	115.35	121.72
1	HM	57	VAL	CA-C-O	-5.40	115.33	120.95
3	Yh	800	TRP	CA-CB-CG	5.40	123.86	113.60
1	FV	53	GLU	CA-C-O	-5.40	115.35	121.72
1	GY	83	ARG	CA-C-O	-5.40	114.52	120.30
1	Eu	73	ASP	CB-CA-C	5.40	121.28	109.99
1	Gs	83	ARG	CA-C-O	-5.40	114.52	120.30
1	Hr	50	VAL	CA-C-O	-5.40	115.38	121.75
1	Db	74	GLY	N-CA-C	5.40	122.55	112.77
1	E3	73	ASP	CB-CA-C	5.40	121.28	109.99
3	YA	728	PRO	N-CA-C	-5.40	106.02	113.53
1	N2	96	PRO	N-CA-C	-5.40	106.82	113.84
1	B9	73	ASP	N-CA-C	-5.40	106.46	113.16
1	K6	84	VAL	N-CA-C	-5.40	104.17	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K7	24	ALA	CA-C-O	-5.40	114.70	120.42
1	L9	31	ALA	CA-C-O	-5.40	115.50	121.28
1	N0	96	PRO	N-CA-C	-5.40	106.82	113.84
1	N9	96	PRO	N-CA-C	-5.40	106.82	113.84
2	PT	63	GLY	CA-C-O	-5.40	115.24	119.83
3	YP	728	PRO	N-CA-C	-5.40	106.02	113.53
1	CJ	21	ILE	N-CA-C	-5.40	105.27	110.72
1	EH	73	ASP	CB-CA-C	5.40	121.28	109.99
1	NO	96	PRO	N-CA-C	-5.40	106.82	113.84
1	Bh	73	ASP	N-CA-C	-5.40	106.46	113.16
1	Hi	50	VAL	CA-C-O	-5.40	115.38	121.75
1	NU	96	PRO	N-CA-C	-5.40	106.82	113.84
1	It	16	GLY	CA-C-O	-5.40	117.12	121.77
1	Fk	53	GLU	CA-C-O	-5.40	115.35	121.72
1	Lo	10	GLY	CA-C-O	-5.40	116.73	120.94
3	Ym	800	TRP	CA-CB-CG	5.40	123.86	113.60
1	Kp	84	VAL	N-CA-C	-5.40	104.16	110.05
1	Nj	96	PRO	N-CA-C	-5.40	106.82	113.84
1	DS	57	VAL	CA-C-N	-5.40	113.04	120.28
1	DS	57	VAL	C-N-CA	-5.40	113.04	120.28
1	DM	13	GLU	CA-C-O	-5.40	114.81	120.80
1	ED	73	ASP	CB-CA-C	5.40	121.27	109.99
1	FC	53	GLU	CA-C-O	-5.40	115.35	121.72
1	EO	73	ASP	CB-CA-C	5.40	121.27	109.99
1	Ki	78	ALA	N-CA-C	-5.40	100.10	108.90
1	FX	53	GLU	CA-C-O	-5.40	115.35	121.72
1	HX	57	VAL	CA-C-O	-5.40	115.33	120.95
1	La	31	ALA	CA-C-O	-5.40	115.50	121.28
1	Cn	21	ILE	N-CA-C	-5.40	105.27	110.72
1	LC	31	ALA	CA-C-O	-5.40	115.50	121.28
1	I2	16	GLY	CA-C-O	-5.40	117.13	121.77
1	N4	96	PRO	N-CA-C	-5.40	106.82	113.84
1	F8	53	GLU	CA-C-O	-5.40	115.35	121.72
3	Y7	800	TRP	CA-CB-CG	5.40	123.86	113.60
1	ES	73	ASP	CB-CA-C	5.40	121.27	109.99
1	LR	31	ALA	CA-C-O	-5.40	115.50	121.28
1	IH	16	GLY	CA-C-O	-5.40	117.13	121.77
1	LK	31	ALA	CA-C-O	-5.40	115.50	121.28
1	NJ	96	PRO	N-CA-C	-5.40	106.82	113.84
1	Ke	84	VAL	N-CA-C	-5.40	104.17	110.05
1	Ki	84	VAL	N-CA-C	-5.40	104.17	110.05
3	Yg	800	TRP	CA-CB-CG	5.40	123.85	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	FW	53	GLU	CA-C-O	-5.40	115.35	121.72
1	Ha	50	VAL	CA-C-O	-5.40	115.38	121.75
1	Ld	31	ALA	CA-C-O	-5.40	115.50	121.28
1	Hw	57	VAL	CA-C-O	-5.40	115.34	120.95
1	Hk	50	VAL	CA-C-O	-5.40	115.38	121.75
1	Fr	53	GLU	CA-C-O	-5.40	115.35	121.72
1	Hj	61	VAL	N-CA-C	-5.40	105.27	110.72
1	KI	78	ALA	N-CA-C	-5.40	100.10	108.90
1	IA	16	GLY	CA-C-O	-5.40	117.13	121.77
1	E4	73	ASP	CB-CA-C	5.40	121.27	109.99
1	ER	73	ASP	CB-CA-C	5.40	121.27	109.99
1	EM	73	ASP	CB-CA-C	5.40	121.27	109.99
1	GO	83	ARG	CA-C-O	-5.40	114.53	120.30
1	Nt	96	PRO	N-CA-C	-5.40	106.83	113.84
1	Dq	18	VAL	CA-C-N	-5.40	113.06	119.05
1	Dq	18	VAL	C-N-CA	-5.40	113.06	119.05
1	DU	81	ILE	N-CA-C	-5.40	99.97	107.80
1	IC	16	GLY	CA-C-O	-5.39	117.13	121.77
1	G4	83	ARG	CA-C-O	-5.39	114.53	120.30
1	BS	73	ASP	N-CA-C	-5.39	106.47	113.16
1	IR	16	GLY	CA-C-O	-5.39	117.13	121.77
1	KR	24	ALA	CA-C-O	-5.39	114.70	120.42
3	YR	800	TRP	CA-CB-CG	5.39	123.85	113.60
1	GJ	83	ARG	CA-C-O	-5.39	114.53	120.30
1	IF	16	GLY	CA-C-O	-5.39	117.13	121.77
1	Ge	83	ARG	CA-C-O	-5.39	114.53	120.30
1	Jh	53	GLU	CA-C-O	-5.39	115.78	121.88
3	Ye	728	PRO	N-CA-C	-5.39	106.03	113.53
1	EV	73	ASP	CB-CA-C	5.39	121.27	109.99
1	HW	50	VAL	CA-C-O	-5.39	115.38	121.75
1	NY	96	PRO	N-CA-C	-5.39	106.83	113.84
1	NZ	96	PRO	N-CA-C	-5.39	106.83	113.84
1	Gn	83	ARG	CA-C-O	-5.39	114.53	120.30
1	Eq	73	ASP	CB-CA-C	5.39	121.26	109.99
3	XD	648	GLN	N-CA-C	5.39	116.84	111.07
3	XS	648	GLN	N-CA-C	5.39	116.84	111.07
1	KC	78	ALA	N-CA-C	-5.39	100.11	108.90
1	KE	78	ALA	N-CA-C	-5.39	100.11	108.90
1	NB	96	PRO	N-CA-C	-5.39	106.83	113.84
1	J2	53	GLU	CA-C-O	-5.39	115.78	121.88
1	H9	57	VAL	CA-C-O	-5.39	115.34	120.95
1	J9	53	GLU	CA-C-O	-5.39	115.79	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	KR	78	ALA	N-CA-C	-5.39	100.11	108.90
1	NQ	96	PRO	N-CA-C	-5.39	106.83	113.84
1	HO	57	VAL	CA-C-O	-5.39	115.34	120.95
1	Cf	21	ILE	N-CA-C	-5.39	105.27	110.72
1	Gh	83	ARG	CA-C-O	-5.39	114.53	120.30
2	Pi	63	GLY	CA-C-O	-5.39	115.25	119.83
1	EZ	73	ASP	CB-CA-C	5.39	121.26	109.99
1	GV	83	ARG	CA-C-O	-5.39	114.53	120.30
3	Xd	724	ILE	N-CA-C	5.39	117.40	109.63
3	XU	631	GLU	N-CA-C	5.39	117.16	111.28
3	Yc	800	TRP	CA-CB-CG	5.39	123.85	113.60
1	Cu	21	ILE	N-CA-C	-5.39	105.27	110.72
1	Hn	50	VAL	CA-C-O	-5.39	115.39	121.75
3	Xs	724	ILE	N-CA-C	5.39	117.40	109.63
1	Km	24	ALA	CA-C-O	-5.39	114.70	120.42
1	H3	57	VAL	CA-C-O	-5.39	115.34	120.95
1	K3	24	ALA	CA-C-O	-5.39	114.70	120.42
1	LP	31	ALA	CA-C-O	-5.39	115.51	121.28
1	Hi	57	VAL	CA-C-O	-5.39	115.34	120.95
1	Ni	96	PRO	N-CA-C	-5.39	106.83	113.84
1	EY	73	ASP	CB-CA-C	5.39	121.26	109.99
1	Cw	21	ILE	N-CA-C	-5.39	105.28	110.72
1	Kt	78	ALA	N-CA-C	-5.39	100.11	108.90
3	Y3	800	TRP	CA-CB-CG	5.39	123.84	113.60
1	HA	57	VAL	CA-C-O	-5.39	115.34	120.95
1	LB	31	ALA	CA-C-O	-5.39	115.51	121.28
1	K5	24	ALA	CA-C-O	-5.39	114.71	120.42
1	G7	83	ARG	CA-C-O	-5.39	114.53	120.30
1	K0	24	ALA	CA-C-O	-5.39	114.71	120.42
1	NP	96	PRO	N-CA-C	-5.39	106.83	113.84
3	YS	800	TRP	CA-CB-CG	5.39	123.84	113.60
1	DW	13	GLU	CA-C-O	-5.39	114.82	120.80
1	KW	24	ALA	CA-C-O	-5.39	114.71	120.42
1	Ec	73	ASP	CB-CA-C	5.39	121.25	109.99
1	Kw	24	ALA	CA-C-O	-5.39	114.71	120.42
1	Gl	18	VAL	CA-C-N	-5.39	113.07	119.05
1	Gl	18	VAL	C-N-CA	-5.39	113.07	119.05
1	Gq	50	VAL	CA-C-O	-5.39	116.01	121.67
1	Ls	31	ALA	CA-C-O	-5.39	115.51	121.28
1	J4	53	GLU	CA-C-O	-5.39	115.79	121.88
1	LF	31	ALA	CA-C-O	-5.39	115.52	121.28
1	NF	96	PRO	N-CA-C	-5.39	106.83	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	He	50	VAL	CA-C-O	-5.39	115.39	121.75
1	Hh	57	VAL	CA-C-O	-5.39	115.35	120.95
1	Ed	73	ASP	CB-CA-C	5.39	121.25	109.99
1	Ht	50	VAL	CA-C-O	-5.39	115.39	121.75
1	Hm	57	VAL	CA-C-O	-5.39	115.35	120.95
1	C4	21	ILE	N-CA-C	-5.39	105.28	110.72
1	H6	50	VAL	CA-C-O	-5.39	115.39	121.75
1	EJ	73	ASP	CB-CA-C	5.39	121.25	109.99
1	Je	53	GLU	CA-C-O	-5.39	115.79	121.88
1	KV	78	ALA	N-CA-C	-5.39	100.12	108.90
3	YY	800	TRP	CA-CB-CG	5.39	123.83	113.60
1	Fw	53	GLU	CA-C-O	-5.39	115.36	121.72
1	Jt	53	GLU	CA-C-O	-5.39	115.79	121.88
1	Nn	96	PRO	N-CA-C	-5.39	106.84	113.84
1	Fj	53	GLU	CA-C-O	-5.39	115.36	121.72
1	Fh	53	GLU	CA-C-O	-5.39	115.36	121.72
3	Y2	800	TRP	CA-CB-CG	5.38	123.83	113.60
1	E9	73	ASP	CB-CA-C	5.38	121.24	109.99
1	HG	50	VAL	CA-C-O	-5.38	115.40	121.75
3	YH	800	TRP	CA-CB-CG	5.38	123.83	113.60
1	EN	73	ASP	CB-CA-C	5.38	121.25	109.99
1	HF	50	VAL	CA-C-O	-5.38	115.40	121.75
1	HF	89	GLU	CA-C-O	-5.38	114.84	120.55
1	IZ	16	GLY	CA-C-O	-5.38	117.14	121.77
3	YX	800	TRP	CA-CB-CG	5.38	123.83	113.60
1	Bb	73	ASP	N-CA-C	-5.38	106.48	113.16
1	Fa	53	GLU	CA-C-O	-5.38	115.36	121.72
1	Ha	57	VAL	CA-C-O	-5.38	115.35	120.95
3	Yt	728	PRO	N-CA-C	-5.38	106.05	113.53
1	Hp	57	VAL	CA-C-O	-5.38	115.35	120.95
3	Xj	631	GLU	N-CA-C	5.38	117.15	111.28
1	H4	57	VAL	CA-C-O	-5.38	115.35	120.95
1	K1	84	VAL	N-CA-C	-5.38	104.18	110.05
1	G9	83	ARG	CA-C-O	-5.38	114.54	120.30
1	L6	31	ALA	CA-C-O	-5.38	115.52	121.28
1	HJ	57	VAL	CA-C-O	-5.38	115.35	120.95
1	LL	31	ALA	CA-C-O	-5.38	115.52	121.28
1	Ke	78	ALA	N-CA-C	-5.38	100.13	108.90
1	LV	31	ALA	CA-C-O	-5.38	115.52	121.28
3	YW	800	TRP	CA-CB-CG	5.38	123.83	113.60
1	Iw	16	GLY	CA-C-O	-5.38	117.14	121.77
1	Nx	96	PRO	N-CA-C	-5.38	106.84	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Lk	31	ALA	CA-C-O	-5.38	115.52	121.28
1	HD	89	GLU	CA-C-O	-5.38	114.84	120.55
1	KE	24	ALA	CA-C-O	-5.38	114.72	120.42
1	K5	84	VAL	N-CA-C	-5.38	104.19	110.05
1	H0	61	VAL	N-CA-C	-5.38	105.29	110.72
1	GP	83	ARG	CA-C-O	-5.38	114.54	120.30
1	HS	89	GLU	CA-C-O	-5.38	114.84	120.55
1	HH	50	VAL	CA-C-O	-5.38	115.40	121.75
1	KJ	24	ALA	CA-C-O	-5.38	114.72	120.42
1	HF	61	VAL	N-CA-C	-5.38	105.29	110.72
1	HL	57	VAL	CA-C-O	-5.38	115.35	120.95
1	BW	73	ASP	N-CA-C	-5.38	106.49	113.16
1	CV	21	ILE	N-CA-C	-5.38	105.28	110.72
1	HZ	57	VAL	CA-C-O	-5.38	115.35	120.95
1	KZ	24	ALA	CA-C-O	-5.38	114.72	120.42
1	Hw	89	GLU	CA-C-O	-5.38	114.84	120.55
1	Kv	78	ALA	N-CA-C	-5.38	100.13	108.90
1	Es	73	ASP	CB-CA-C	5.38	121.24	109.99
1	Gp	83	ARG	CA-C-O	-5.38	114.54	120.30
1	Lq	31	ALA	CA-C-O	-5.38	115.52	121.28
3	Yq	800	TRP	CA-CB-CG	5.38	123.83	113.60
1	LM	31	ALA	CA-C-O	-5.38	115.52	121.28
1	B4	73	ASP	N-CA-C	-5.38	106.49	113.16
1	LQ	31	ALA	CA-C-O	-5.38	115.52	121.28
1	BJ	73	ASP	N-CA-C	-5.38	106.49	113.16
1	Kl	78	ALA	N-CA-C	-5.38	100.13	108.90
1	FY	53	GLU	CA-C-O	-5.38	115.37	121.72
1	EC	73	ASP	CB-CA-C	5.38	121.23	109.99
1	GB	18	VAL	CA-C-N	-5.38	113.08	119.05
1	GB	18	VAL	C-N-CA	-5.38	113.08	119.05
1	C9	21	ILE	N-CA-C	-5.38	105.29	110.72
1	HH	57	VAL	CA-C-O	-5.38	115.36	120.95
1	LK	10	GLY	CA-C-O	-5.38	116.75	120.94
3	YN	800	TRP	CA-CB-CG	5.38	123.82	113.60
1	CE	21	ILE	N-CA-C	-5.38	105.29	110.72
1	JD	53	GLU	CA-C-O	-5.38	115.81	121.88
1	H1	57	VAL	CA-C-O	-5.38	115.36	120.95
1	H2	57	VAL	CA-C-O	-5.38	115.36	120.95
1	C0	21	ILE	N-CA-C	-5.38	105.29	110.72
1	JS	53	GLU	CA-C-O	-5.38	115.81	121.88
1	KT	78	ALA	N-CA-C	-5.38	100.14	108.90
1	GG	83	ARG	CA-C-O	-5.38	114.55	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	KL	84	VAL	N-CA-C	-5.38	104.19	110.05
3	XO	724	ILE	N-CA-C	5.38	117.37	109.63
1	Ci	21	ILE	N-CA-C	-5.38	105.29	110.72
1	Ke	24	ALA	CA-C-O	-5.38	114.72	120.42
1	Kg	78	ALA	N-CA-C	-5.38	100.14	108.90
1	KZ	84	VAL	N-CA-C	-5.38	104.19	110.05
1	Gd	83	ARG	CA-C-O	-5.38	114.55	120.30
3	Ya	800	TRP	CA-CB-CG	5.38	123.82	113.60
3	Yb	800	TRP	CA-CB-CG	5.38	123.82	113.60
1	Fn	53	GLU	CA-C-O	-5.38	115.38	121.72
1	No	96	PRO	N-CA-C	-5.38	106.85	113.84
1	Bq	73	ASP	N-CA-C	-5.38	106.49	113.16
1	Cs	21	ILE	N-CA-C	-5.38	105.29	110.72
1	CT	21	ILE	N-CA-C	-5.38	105.29	110.72
1	HR	57	VAL	CA-C-O	-5.38	115.36	120.95
3	YP	800	TRP	CA-CB-CG	5.38	123.81	113.60
3	XG	630	ASN	N-CA-C	-5.38	105.55	113.61
1	Kh	24	ALA	CA-C-O	-5.38	114.72	120.42
1	Cd	21	ILE	N-CA-C	-5.38	105.29	110.72
3	XU	697	SER	N-CA-C	-5.38	105.42	111.28
3	Yn	800	TRP	CA-CB-CG	5.38	123.81	113.60
3	Yp	800	TRP	CA-CB-CG	5.38	123.81	113.60
1	Df	13	GLU	CA-C-O	-5.38	114.83	120.80
1	BD	73	ASP	N-CA-C	-5.37	106.50	113.16
1	GD	83	ARG	CA-C-O	-5.37	114.55	120.30
1	HE	57	VAL	CA-C-O	-5.37	115.36	120.95
1	KA	84	VAL	N-CA-C	-5.37	104.19	110.05
1	C5	21	ILE	N-CA-C	-5.37	105.29	110.72
1	I1	16	GLY	CA-C-O	-5.37	117.15	121.77
1	KQ	84	VAL	N-CA-C	-5.37	104.19	110.05
1	II	16	GLY	CA-C-O	-5.37	117.15	121.77
3	YI	800	TRP	CA-CB-CG	5.37	123.81	113.60
3	YJ	800	TRP	CA-CB-CG	5.37	123.81	113.60
1	Ki	24	ALA	CA-C-O	-5.37	114.72	120.42
1	Hc	89	GLU	CA-C-O	-5.37	114.85	120.55
1	Er	73	ASP	CB-CA-C	5.37	121.22	109.99
3	Y4	800	TRP	CA-CB-CG	5.37	123.81	113.60
1	C7	21	ILE	N-CA-C	-5.37	105.30	110.72
1	H6	57	VAL	CA-C-O	-5.37	115.36	120.95
1	L7	31	ALA	CA-C-O	-5.37	115.53	121.28
1	FR	53	GLU	CA-C-O	-5.37	115.38	121.72
1	CK	21	ILE	N-CA-C	-5.37	105.29	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CF	21	ILE	N-CA-C	-5.37	105.30	110.72
1	CM	21	ILE	N-CA-C	-5.37	105.30	110.72
1	IW	16	GLY	CA-C-O	-5.37	117.15	121.77
1	KY	24	ALA	CA-C-O	-5.37	114.72	120.42
1	Ld	10	GLY	CA-C-O	-5.37	116.75	120.94
1	Lv	31	ALA	CA-C-O	-5.37	115.53	121.28
1	Co	21	ILE	N-CA-C	-5.37	105.30	110.72
1	Cq	21	ILE	N-CA-C	-5.37	105.30	110.72
1	KH	24	ALA	CA-C-O	-5.37	114.73	120.42
1	HY	57	VAL	CA-C-O	-5.37	115.36	120.95
3	Xh	648	GLN	N-CA-C	5.37	116.82	111.07
1	KD	24	ALA	CA-C-O	-5.37	114.73	120.42
3	YB	800	TRP	CA-CB-CG	5.37	123.80	113.60
1	H5	57	VAL	CA-C-O	-5.37	115.37	120.95
1	L5	31	ALA	CA-C-O	-5.37	115.53	121.28
3	X1	630	ASN	N-CA-C	-5.37	105.56	113.61
1	L0	31	ALA	CA-C-O	-5.37	115.54	121.28
3	YQ	800	TRP	CA-CB-CG	5.37	123.80	113.60
1	HK	57	VAL	CA-C-O	-5.37	115.37	120.95
1	KK	24	ALA	CA-C-O	-5.37	114.73	120.42
1	JO	53	GLU	CA-C-O	-5.37	115.81	121.88
1	KF	24	ALA	CA-C-O	-5.37	114.73	120.42
3	Yf	800	TRP	CA-CB-CG	5.37	123.80	113.60
1	IU	16	GLY	CA-C-O	-5.37	117.15	121.77
1	Bw	73	ASP	N-CA-C	-5.37	106.50	113.16
1	Fv	53	GLU	CA-C-O	-5.37	115.38	121.72
3	Yl	800	TRP	CA-CB-CG	5.37	123.80	113.60
1	Hq	61	VAL	N-CA-C	-5.37	105.30	110.72
1	Is	16	GLY	CA-C-O	-5.37	117.15	121.77
1	Np	46	VAL	CA-C-O	-5.37	115.05	121.28
1	D2	13	GLU	CA-C-O	-5.37	114.84	120.80
1	HR	61	VAL	N-CA-C	-5.37	105.30	110.72
1	Hf	57	VAL	CA-C-O	-5.37	115.37	120.95
3	YV	800	TRP	CA-CB-CG	5.37	123.80	113.60
1	Gt	83	ARG	CA-C-O	-5.37	114.56	120.30
1	Fm	53	GLU	CA-C-O	-5.37	115.39	121.72
1	Kl	24	ALA	CA-C-O	-5.37	114.73	120.42
3	Y1	800	TRP	CA-CB-CG	5.37	123.80	113.60
3	Y9	800	TRP	CA-CB-CG	5.37	123.79	113.60
1	OR	50	VAL	CA-C-O	-5.37	115.06	121.28
3	YG	800	TRP	CA-CB-CG	5.37	123.80	113.60
1	LO	31	ALA	CA-C-O	-5.37	115.54	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CZ	21	ILE	N-CA-C	-5.37	105.30	110.72
1	LV	10	GLY	CA-C-O	-5.37	116.75	120.94
1	Hu	89	GLU	CA-C-O	-5.37	114.86	120.55
1	Kk	78	ALA	N-CA-C	-5.37	100.15	108.90
1	Ds	13	GLU	CA-C-O	-5.37	114.84	120.80
1	JC	77	ALA	N-CA-C	5.37	117.24	108.76
1	DJ	95	ALA	CA-C-N	-5.37	114.25	119.78
1	DJ	95	ALA	C-N-CA	-5.37	114.25	119.78
1	CB	21	ILE	N-CA-C	-5.36	105.30	110.72
1	L1	31	ALA	CA-C-O	-5.36	115.54	121.28
1	CQ	21	ILE	N-CA-C	-5.36	105.30	110.72
3	YO	800	TRP	CA-CB-CG	5.36	123.79	113.60
1	He	89	GLU	CA-C-O	-5.36	114.86	120.55
1	BY	73	ASP	N-CA-C	-5.36	106.51	113.16
1	Id	16	GLY	CA-C-O	-5.36	117.16	121.77
1	Ou	50	VAL	CA-C-O	-5.36	115.06	121.28
2	Pj	27	VAL	CA-C-O	-5.36	116.38	121.64
3	YA	800	TRP	CA-CB-CG	5.36	123.79	113.60
1	I6	16	GLY	CA-C-O	-5.36	117.16	121.77
3	Y8	800	TRP	CA-CB-CG	5.36	123.79	113.60
1	IL	16	GLY	CA-C-O	-5.36	117.16	121.77
1	Gf	18	VAL	CA-C-N	-5.36	113.10	119.05
1	Gf	18	VAL	C-N-CA	-5.36	113.10	119.05
1	Cb	21	ILE	N-CA-C	-5.36	105.30	110.72
3	Yt	800	TRP	CA-CB-CG	5.36	123.79	113.60
1	CA	21	ILE	N-CA-C	-5.36	105.31	110.72
1	HJ	89	GLU	CA-C-O	-5.36	114.87	120.55
1	HV	57	VAL	CA-C-O	-5.36	115.38	120.95
1	Lb	31	ALA	CA-C-O	-5.36	115.54	121.28
3	Yu	800	TRP	CA-CB-CG	5.36	123.78	113.60
1	Hk	57	VAL	CA-C-O	-5.36	115.37	120.95
1	Hn	57	VAL	CA-C-O	-5.36	115.38	120.95
3	Xk	630	ASN	N-CA-C	-5.36	105.57	113.61
3	Yo	800	TRP	CA-CB-CG	5.36	123.78	113.60
1	Ir	16	GLY	CA-C-O	-5.36	117.16	121.77
1	DS	30	ALA	N-CA-C	5.36	117.12	111.28
1	CH	21	ILE	N-CA-C	-5.36	105.31	110.72
3	XV	630	ASN	N-CA-C	-5.36	105.57	113.61
1	Ka	84	VAL	N-CA-C	-5.36	104.21	110.05
1	LU	31	ALA	CA-C-O	-5.36	115.55	121.28
1	Ku	84	VAL	N-CA-C	-5.36	104.21	110.05
1	Dh	18	VAL	CA-C-N	-5.36	113.10	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Dh	18	VAL	C-N-CA	-5.36	113.10	119.05
1	D9	13	GLU	CA-C-O	-5.36	114.85	120.80
1	I0	16	GLY	CA-C-O	-5.36	117.16	121.77
1	DO	13	GLU	CA-C-O	-5.36	114.85	120.80
1	Ce	21	ILE	N-CA-C	-5.36	105.31	110.72
1	Ch	21	ILE	N-CA-C	-5.36	105.31	110.72
1	IV	16	GLY	CA-C-O	-5.36	117.16	121.77
1	Dd	13	GLU	CA-C-O	-5.36	114.85	120.80
3	Yd	800	TRP	CA-CB-CG	5.36	123.78	113.60
1	Hx	61	VAL	N-CA-C	-5.36	105.31	110.72
1	Kr	84	VAL	N-CA-C	-5.36	104.21	110.05
3	Xs	720	ALA	N-CA-C	5.36	118.83	111.54
1	Jv	25	ASP	N-CA-C	-5.36	105.44	111.28
1	G2	95	ALA	CA-C-N	-5.36	113.11	119.05
1	G2	95	ALA	C-N-CA	-5.36	113.11	119.05
1	H7	89	GLU	CA-C-O	-5.36	114.87	120.55
1	GH	95	ALA	CA-C-N	-5.36	113.11	119.05
1	GH	95	ALA	C-N-CA	-5.36	113.11	119.05
1	FN	53	GLU	CA-C-O	-5.36	115.40	121.72
1	GM	83	ARG	CA-C-O	-5.36	114.57	120.30
1	HM	89	GLU	CA-C-O	-5.36	114.87	120.55
1	Hh	89	GLU	CA-C-O	-5.36	114.87	120.55
1	KX	84	VAL	N-CA-C	-5.36	104.21	110.05
1	LZ	10	GLY	CA-C-O	-5.36	116.76	120.94
1	JY	53	GLU	CA-C-O	-5.36	115.83	121.88
1	H8	89	GLU	CA-C-O	-5.35	114.88	120.55
1	HN	89	GLU	CA-C-O	-5.35	114.88	120.55
1	Ov	45	TYR	CA-C-O	-5.35	114.58	120.36
1	CD	21	ILE	N-CA-C	-5.35	105.31	110.72
1	I4	16	GLY	CA-C-O	-5.35	117.17	121.77
1	K2	84	VAL	N-CA-C	-5.35	104.22	110.05
1	CP	21	ILE	N-CA-C	-5.35	105.31	110.72
1	CG	21	ILE	N-CA-C	-5.35	105.31	110.72
1	CO	21	ILE	N-CA-C	-5.35	105.31	110.72
1	Gi	50	VAL	CA-C-O	-5.35	116.05	121.67
1	Kg	84	VAL	N-CA-C	-5.35	104.22	110.05
1	IY	16	GLY	CA-C-O	-5.35	117.17	121.77
1	Oa	50	VAL	CA-C-O	-5.35	115.07	121.28
1	Gx	50	VAL	CA-C-O	-5.35	116.05	121.67
1	Kt	84	VAL	N-CA-C	-5.35	104.22	110.05
3	Y6	800	TRP	CA-CB-CG	5.35	123.77	113.60
1	Gb	83	ARG	CA-C-O	-5.35	114.57	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ht	89	GLU	CA-C-O	-5.35	114.88	120.55
1	Kx	24	ALA	CA-C-O	-5.35	114.75	120.42
1	Ho	57	VAL	CA-C-O	-5.35	115.39	120.95
1	C2	21	ILE	N-CA-C	-5.35	105.32	110.72
1	KS	84	VAL	N-CA-C	-5.35	104.22	110.05
1	Hd	89	GLU	CA-C-O	-5.35	114.88	120.55
1	Du	13	GLU	CA-C-O	-5.35	114.86	120.80
1	Hx	57	VAL	CA-C-O	-5.35	115.39	120.95
1	Cm	21	ILE	N-CA-C	-5.35	105.32	110.72
1	Kl	84	VAL	N-CA-C	-5.35	104.22	110.05
1	Hp	89	GLU	CA-C-O	-5.35	114.88	120.55
1	Hr	89	GLU	CA-C-O	-5.35	114.88	120.55
1	Kj	24	ALA	CA-C-O	-5.35	114.75	120.42
3	Ys	800	TRP	CA-CB-CG	5.35	123.76	113.60
1	HB	57	VAL	CA-C-O	-5.35	115.39	120.95
1	L8	31	ALA	CA-C-O	-5.35	115.56	121.28
1	HQ	57	VAL	CA-C-O	-5.35	115.39	120.95
1	NS	73	ASP	CB-CA-C	5.35	119.99	109.72
1	LJ	10	GLY	CA-C-O	-5.35	116.77	120.94
1	OL	50	VAL	CA-C-O	-5.35	115.08	121.28
3	YZ	800	TRP	CA-CB-CG	5.35	123.76	113.60
1	Ia	16	GLY	CA-C-O	-5.35	117.17	121.77
1	Nc	73	ASP	CB-CA-C	5.35	119.99	109.72
1	Cx	21	ILE	N-CA-C	-5.35	105.32	110.72
1	Hu	57	VAL	CA-C-O	-5.35	115.39	120.95
1	Bn	73	ASP	N-CA-C	-5.35	106.53	113.16
1	Nr	73	ASP	CB-CA-C	5.35	119.99	109.72
1	LN	31	ALA	CA-C-O	-5.35	115.56	121.28
1	DB	18	VAL	CA-C-N	-5.35	113.12	119.05
1	DB	18	VAL	C-N-CA	-5.35	113.12	119.05
1	OH	45	TYR	CA-C-O	-5.35	114.59	120.36
3	YL	800	TRP	CA-CB-CG	5.35	123.76	113.60
1	Gu	18	VAL	CA-C-N	-5.35	113.12	119.05
1	Gu	18	VAL	C-N-CA	-5.35	113.12	119.05
1	Hp	50	VAL	CA-C-O	-5.35	115.44	121.75
1	KI	84	VAL	N-CA-C	-5.35	104.22	110.05
1	ID	16	GLY	CA-C-O	-5.34	117.17	121.77
1	OD	50	VAL	CA-C-O	-5.34	115.08	121.28
1	H0	57	VAL	CA-C-O	-5.34	115.39	120.95
1	L7	10	GLY	CA-C-O	-5.34	116.77	120.94
3	YT	800	TRP	CA-CB-CG	5.34	123.75	113.60
1	Hi	61	VAL	N-CA-C	-5.34	105.32	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Cc	21	ILE	N-CA-C	-5.34	105.32	110.72
1	Ho	61	VAL	N-CA-C	-5.34	105.32	110.72
1	Js	53	GLU	CA-C-O	-5.34	115.84	121.88
1	HH	89	GLU	CA-C-O	-5.34	114.89	120.55
1	KG	84	VAL	N-CA-C	-5.34	104.23	110.05
1	Hf	89	GLU	CA-C-O	-5.34	114.89	120.55
1	Kf	84	VAL	N-CA-C	-5.34	104.23	110.05
3	Yi	800	TRP	CA-CB-CG	5.34	123.75	113.60
1	Nx	46	VAL	CA-C-O	-5.34	115.08	121.28
1	Kl	43	GLY	N-CA-C	-5.34	108.26	115.21
1	No	73	ASP	CB-CA-C	5.34	119.98	109.72
3	Y5	800	TRP	CA-CB-CG	5.34	123.75	113.60
1	GQ	18	VAL	CA-C-N	-5.34	113.12	119.05
1	GQ	18	VAL	C-N-CA	-5.34	113.12	119.05
1	HR	89	GLU	CA-C-O	-5.34	114.89	120.55
1	HT	57	VAL	CA-C-O	-5.34	115.40	120.95
1	CI	21	ILE	N-CA-C	-5.34	105.33	110.72
3	YK	800	TRP	CA-CB-CG	5.34	123.75	113.60
1	GM	50	VAL	CA-C-O	-5.34	116.06	121.67
1	Li	10	GLY	CA-C-O	-5.34	116.77	120.94
1	HW	57	VAL	CA-C-O	-5.34	115.40	120.95
1	HX	89	GLU	CA-C-O	-5.34	114.89	120.55
1	HU	57	VAL	CA-C-O	-5.34	115.39	120.95
1	Ha	89	GLU	CA-C-O	-5.34	114.89	120.55
1	Hb	61	VAL	N-CA-C	-5.34	105.33	110.72
1	Ov	50	VAL	CA-C-O	-5.34	115.08	121.28
1	Ow	50	VAL	CA-C-O	-5.34	115.08	121.28
3	Xu	725	THR	CA-C-O	-5.34	115.14	121.60
1	Ip	16	GLY	CA-C-O	-5.34	117.18	121.77
1	Km	84	VAL	N-CA-C	-5.34	104.23	110.05
1	DB	67	ALA	N-CA-C	5.34	117.10	111.28
1	KB	84	VAL	N-CA-C	-5.34	104.23	110.05
1	ND	73	ASP	CB-CA-C	5.34	119.97	109.72
1	K7	84	VAL	N-CA-C	-5.34	104.23	110.05
1	KP	84	VAL	N-CA-C	-5.34	104.23	110.05
1	KT	24	ALA	CA-C-O	-5.34	114.76	120.42
1	KM	84	VAL	N-CA-C	-5.34	104.23	110.05
1	Gf	95	ALA	CA-C-N	-5.34	113.12	119.05
1	Gf	95	ALA	C-N-CA	-5.34	113.12	119.05
1	LZ	31	ALA	CA-C-O	-5.34	115.57	121.28
1	Hl	89	GLU	CA-C-O	-5.34	114.89	120.55
1	Gq	83	ARG	CA-C-O	-5.34	114.59	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Kq	84	VAL	N-CA-C	-5.34	104.23	110.05
1	HE	89	GLU	CA-C-O	-5.34	114.89	120.55
1	C1	21	ILE	N-CA-C	-5.34	105.33	110.72
1	HT	89	GLU	CA-C-O	-5.34	114.89	120.55
1	Og	50	VAL	CA-C-O	-5.34	115.09	121.28
1	LU	10	GLY	CA-C-O	-5.34	116.78	120.94
1	GB	95	ALA	CA-C-N	-5.34	113.13	119.05
1	GB	95	ALA	C-N-CA	-5.34	113.13	119.05
1	IE	16	GLY	CA-C-O	-5.34	117.18	121.77
1	NE	73	ASP	CB-CA-C	5.34	119.97	109.72
1	GQ	95	ALA	CA-C-N	-5.34	113.13	119.05
1	GQ	95	ALA	C-N-CA	-5.34	113.13	119.05
1	IT	16	GLY	CA-C-O	-5.34	117.18	121.77
1	OW	50	VAL	CA-C-O	-5.34	115.09	121.28
1	HU	89	GLU	CA-C-O	-5.34	114.89	120.55
1	Gu	95	ALA	CA-C-N	-5.34	113.13	119.05
1	Gu	95	ALA	C-N-CA	-5.34	113.13	119.05
1	Ix	16	GLY	CA-C-O	-5.34	117.18	121.77
1	Nx	73	ASP	CB-CA-C	5.34	119.97	109.72
3	Yx	800	TRP	CA-CB-CG	5.34	123.74	113.60
1	Kn	24	ALA	CA-C-O	-5.34	114.76	120.42
1	Lo	31	ALA	CA-C-O	-5.34	115.57	121.28
1	Ol	50	VAL	CA-C-O	-5.34	115.09	121.28
1	Hj	57	VAL	CA-C-O	-5.34	115.40	120.95
1	Ls	10	GLY	CA-C-O	-5.34	116.78	120.94
1	Or	45	TYR	CA-C-O	-5.34	114.60	120.36
1	HA	61	VAL	N-CA-C	-5.33	105.33	110.72
1	HP	61	VAL	N-CA-C	-5.33	105.33	110.72
3	XR	725	THR	CA-C-O	-5.33	115.14	121.60
1	OK	50	VAL	CA-C-O	-5.33	115.09	121.28
1	HL	89	GLU	CA-C-O	-5.33	114.89	120.55
1	He	61	VAL	N-CA-C	-5.33	105.33	110.72
1	Ni	73	ASP	CB-CA-C	5.33	119.96	109.72
1	CX	21	ILE	N-CA-C	-5.33	105.33	110.72
1	HZ	61	VAL	N-CA-C	-5.33	105.33	110.72
1	NU	73	ASP	CB-CA-C	5.33	119.96	109.72
1	Ht	61	VAL	N-CA-C	-5.33	105.33	110.72
1	Nj	73	ASP	CB-CA-C	5.33	119.96	109.72
1	HC	89	GLU	CA-C-O	-5.33	114.89	120.55
1	C3	21	ILE	N-CA-C	-5.33	105.33	110.72
1	C6	21	ILE	N-CA-C	-5.33	105.33	110.72
1	L9	10	GLY	CA-C-O	-5.33	116.78	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O6	50	VAL	CA-C-O	-5.33	115.09	121.28
3	Y0	800	TRP	CA-CB-CG	5.33	123.73	113.60
1	IG	16	GLY	CA-C-O	-5.33	117.18	121.77
1	Nh	73	ASP	CB-CA-C	5.33	119.96	109.72
1	Of	50	VAL	CA-C-O	-5.33	115.09	121.28
1	Kb	84	VAL	N-CA-C	-5.33	104.24	110.05
3	YU	800	TRP	CA-CB-CG	5.33	123.73	113.60
1	Nv	73	ASP	CB-CA-C	5.33	119.96	109.72
3	Yk	800	TRP	CA-CB-CG	5.33	123.73	113.60
1	Lj	31	ALA	CA-C-O	-5.33	115.57	121.28
1	Op	50	VAL	CA-C-O	-5.33	115.09	121.28
3	Yj	800	TRP	CA-CB-CG	5.33	123.73	113.60
1	DD	18	VAL	CA-C-N	-5.33	113.13	119.05
1	DD	18	VAL	C-N-CA	-5.33	113.13	119.05
1	LM	10	GLY	CA-C-O	-5.33	116.78	120.94
1	DI	37	GLY	N-CA-C	5.33	121.02	110.83
1	KC	43	GLY	N-CA-C	-5.33	108.28	115.21
1	H5	61	VAL	N-CA-C	-5.33	105.33	110.72
1	H7	61	VAL	N-CA-C	-5.33	105.33	110.72
1	LT	10	GLY	CA-C-O	-5.33	116.78	120.94
1	OS	50	VAL	CA-C-O	-5.33	115.10	121.28
1	HK	61	VAL	N-CA-C	-5.33	105.33	110.72
1	Ng	73	ASP	CB-CA-C	5.33	119.96	109.72
3	Ye	800	TRP	CA-CB-CG	5.33	123.73	113.60
1	Jd	53	GLU	CA-C-O	-5.33	115.86	121.88
1	Kc	84	VAL	N-CA-C	-5.33	104.24	110.05
1	Hv	61	VAL	N-CA-C	-5.33	105.33	110.72
1	Kv	43	GLY	N-CA-C	-5.33	108.28	115.21
1	Il	16	GLY	CA-C-O	-5.33	117.19	121.77
1	Nm	73	ASP	CB-CA-C	5.33	119.95	109.72
1	KC	84	VAL	N-CA-C	-5.33	104.24	110.05
1	NE	46	VAL	CA-C-O	-5.33	115.10	121.28
1	N3	73	ASP	CB-CA-C	5.33	119.95	109.72
1	G7	50	VAL	CA-C-O	-5.33	116.07	121.67
1	Kg	43	GLY	N-CA-C	-5.33	108.28	115.21
1	CW	21	ILE	N-CA-C	-5.33	105.34	110.72
1	NX	73	ASP	CB-CA-C	5.33	119.95	109.72
1	Kv	84	VAL	N-CA-C	-5.33	104.24	110.05
1	Np	73	ASP	CB-CA-C	5.33	119.95	109.72
1	DJ	18	VAL	CA-C-N	-5.33	113.13	119.05
1	DJ	18	VAL	C-N-CA	-5.33	113.13	119.05
3	YE	800	TRP	CA-CB-CG	5.33	123.72	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H6	89	GLU	CA-C-O	-5.33	114.90	120.55
1	IS	16	GLY	CA-C-O	-5.33	117.19	121.77
1	HI	89	GLU	CA-C-O	-5.33	114.90	120.55
1	HK	89	GLU	CA-C-O	-5.33	114.90	120.55
1	NG	73	ASP	CB-CA-C	5.33	119.95	109.72
1	HF	57	VAL	CA-C-O	-5.33	115.41	120.95
1	Hh	61	VAL	N-CA-C	-5.33	105.34	110.72
1	Gb	50	VAL	CA-C-O	-5.33	116.08	121.67
1	Ku	43	GLY	N-CA-C	-5.33	108.28	115.21
1	Jn	53	GLU	CA-C-O	-5.33	115.86	121.88
1	Hr	61	VAL	N-CA-C	-5.33	105.34	110.72
3	XD	725	THR	CA-C-O	-5.33	115.15	121.60
1	Dq	55	GLY	N-CA-C	5.33	118.68	112.50
1	NI	73	ASP	CB-CA-C	5.33	119.95	109.72
1	Fl	78	ALA	CA-C-O	-5.33	114.58	120.33
1	HA	89	GLU	CA-C-O	-5.33	114.90	120.55
3	XB	725	THR	CA-C-O	-5.33	115.16	121.60
1	HP	89	GLU	CA-C-O	-5.33	114.90	120.55
1	OR	45	TYR	CA-C-O	-5.33	114.61	120.36
3	XQ	725	THR	CA-C-O	-5.33	115.16	121.60
1	NF	73	ASP	CB-CA-C	5.33	119.95	109.72
1	Og	45	TYR	CA-C-O	-5.33	114.61	120.36
3	Xf	725	THR	CA-C-O	-5.33	115.16	121.60
1	Lb	10	GLY	CA-C-O	-5.33	116.78	120.94
1	Lq	10	GLY	CA-C-O	-5.33	116.78	120.94
1	DJ	36	VAL	N-CA-C	5.33	116.05	110.62
1	HQ	61	VAL	N-CA-C	-5.33	105.34	110.72
1	Ct	21	ILE	N-CA-C	-5.33	105.34	110.72
1	Ct	83	ARG	CA-C-O	-5.33	114.46	120.32
1	Gx	73	ASP	N-CA-C	-5.33	106.78	113.28
1	Gr	50	VAL	CA-C-O	-5.33	116.08	121.67
1	Hj	89	GLU	CA-C-O	-5.33	114.91	120.55
1	NL	46	VAL	CA-C-O	-5.33	115.10	121.28
1	H1	61	VAL	N-CA-C	-5.32	105.34	110.72
1	H8	61	VAL	N-CA-C	-5.32	105.34	110.72
1	I9	16	GLY	CA-C-O	-5.32	117.19	121.77
1	K8	84	VAL	N-CA-C	-5.32	104.25	110.05
3	Y8	719	LEU	N-CA-C	5.32	117.56	110.53
2	PH	70	ASP	N-CA-C	-5.32	105.63	113.61
1	HO	89	GLU	CA-C-O	-5.32	114.91	120.55
1	IO	16	GLY	CA-C-O	-5.32	117.19	121.77
1	KN	84	VAL	N-CA-C	-5.32	104.25	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Oi	45	TYR	CA-C-O	-5.32	114.61	120.36
1	FX	78	ALA	CA-C-O	-5.32	114.58	120.33
1	HV	61	VAL	N-CA-C	-5.32	105.34	110.72
1	Hc	61	VAL	N-CA-C	-5.32	105.34	110.72
1	Kt	43	GLY	N-CA-C	-5.32	108.29	115.21
1	Ot	45	TYR	CA-C-O	-5.32	114.61	120.36
1	Ck	21	ILE	N-CA-C	-5.32	105.34	110.72
1	Hk	61	VAL	N-CA-C	-5.32	105.34	110.72
1	Nn	73	ASP	CB-CA-C	5.32	119.94	109.72
1	LG	31	ALA	CA-C-O	-5.32	115.58	121.28
1	KU	24	ALA	CA-C-O	-5.32	114.78	120.42
1	Od	45	TYR	CA-C-O	-5.32	114.61	120.36
3	Xd	720	ALA	N-CA-C	5.32	118.78	111.54
1	Hl	57	VAL	CA-C-O	-5.32	115.42	120.95
3	Xw	648	GLN	N-CA-C	5.32	116.77	111.07
1	Om	21	ILE	N-CA-C	-5.32	105.19	110.62
1	GE	50	VAL	CA-C-O	-5.32	116.08	121.67
1	HC	61	VAL	N-CA-C	-5.32	105.35	110.72
1	LD	10	GLY	CA-C-O	-5.32	116.79	120.94
1	NB	73	ASP	CB-CA-C	5.32	119.93	109.72
1	OC	50	VAL	CA-C-O	-5.32	115.11	121.28
1	H3	89	GLU	CA-C-O	-5.32	114.91	120.55
1	K9	84	VAL	N-CA-C	-5.32	104.25	110.05
1	N8	73	ASP	CB-CA-C	5.32	119.94	109.72
1	LS	10	GLY	CA-C-O	-5.32	116.79	120.94
1	NQ	73	ASP	CB-CA-C	5.32	119.93	109.72
1	NT	73	ASP	CB-CA-C	5.32	119.94	109.72
1	KO	84	VAL	N-CA-C	-5.32	104.25	110.05
1	Hg	61	VAL	N-CA-C	-5.32	105.35	110.72
1	Kf	43	GLY	N-CA-C	-5.32	108.29	115.21
1	Nf	73	ASP	CB-CA-C	5.32	119.93	109.72
1	Lc	31	ALA	CA-C-O	-5.32	115.59	121.28
1	KD	84	VAL	N-CA-C	-5.32	104.25	110.05
1	H1	89	GLU	CA-C-O	-5.32	114.91	120.55
1	L5	10	GLY	CA-C-O	-5.32	116.79	120.94
1	N1	73	ASP	CB-CA-C	5.32	119.93	109.72
1	N0	73	ASP	CB-CA-C	5.32	119.93	109.72
1	HG	89	GLU	CA-C-O	-5.32	114.91	120.55
1	KM	43	GLY	N-CA-C	-5.32	108.30	115.21
1	NY	73	ASP	CB-CA-C	5.32	119.93	109.72
1	Io	16	GLY	CA-C-O	-5.32	117.20	121.77
1	OB	50	VAL	CA-C-O	-5.32	115.11	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N5	73	ASP	CB-CA-C	5.32	119.93	109.72
1	H6	61	VAL	N-CA-C	-5.32	105.35	110.72
1	O0	50	VAL	CA-C-O	-5.32	115.11	121.28
1	KS	24	ALA	CA-C-O	-5.32	114.78	120.42
1	NK	73	ASP	CB-CA-C	5.32	119.93	109.72
1	CL	21	ILE	N-CA-C	-5.32	105.35	110.72
1	HL	61	VAL	N-CA-C	-5.32	105.35	110.72
1	HM	53	GLU	CA-C-O	-5.32	116.02	121.87
1	Ik	16	GLY	CA-C-O	-5.32	117.20	121.77
1	Hp	61	VAL	N-CA-C	-5.32	105.35	110.72
1	Dw	8	ALA	N-CA-C	5.32	117.58	110.35
1	CC	21	ILE	N-CA-C	-5.32	105.35	110.72
1	H5	89	GLU	CA-C-O	-5.32	114.92	120.55
1	CR	21	ILE	N-CA-C	-5.32	105.35	110.72
1	CS	21	ILE	N-CA-C	-5.32	105.35	110.72
1	KR	84	VAL	N-CA-C	-5.32	104.26	110.05
1	HG	61	VAL	N-CA-C	-5.32	105.35	110.72
1	HJ	61	VAL	N-CA-C	-5.32	105.35	110.72
1	Oh	50	VAL	CA-C-O	-5.32	115.11	121.28
1	HW	61	VAL	N-CA-C	-5.32	105.35	110.72
1	KV	43	GLY	N-CA-C	-5.32	108.30	115.21
1	NV	73	ASP	CB-CA-C	5.32	119.93	109.72
1	NZ	73	ASP	CB-CA-C	5.32	119.92	109.72
1	OX	45	TYR	CA-C-O	-5.32	114.62	120.36
1	Na	73	ASP	CB-CA-C	5.32	119.92	109.72
1	Kx	43	GLY	N-CA-C	-5.32	108.30	115.21
1	Bl	49	LEU	CA-C-O	-5.32	114.96	120.70
1	Lm	76	VAL	CB-CA-C	-5.32	105.06	112.02
1	HE	61	VAL	N-CA-C	-5.31	105.35	110.72
1	O1	45	TYR	CA-C-O	-5.31	114.62	120.36
1	N6	73	ASP	CB-CA-C	5.31	119.92	109.72
1	Kk	43	GLY	N-CA-C	-5.31	108.30	115.21
1	LC	40	PHE	N-CA-C	-5.31	99.86	108.41
1	NA	73	ASP	CB-CA-C	5.31	119.92	109.72
1	N2	73	ASP	CB-CA-C	5.31	119.92	109.72
1	LR	40	PHE	N-CA-C	-5.31	99.86	108.41
1	NP	73	ASP	CB-CA-C	5.31	119.92	109.72
1	NR	73	ASP	CB-CA-C	5.31	119.92	109.72
1	NH	73	ASP	CB-CA-C	5.31	119.92	109.72
1	Fv	78	ALA	CA-C-O	-5.31	114.59	120.33
1	Fm	78	ALA	CA-C-O	-5.31	114.59	120.33
1	Ij	16	GLY	CA-C-O	-5.31	117.20	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Om	45	TYR	CA-C-O	-5.31	114.62	120.36
1	HB	89	GLU	CA-C-O	-5.31	114.92	120.55
1	H2	89	GLU	CA-C-O	-5.31	114.92	120.55
1	O8	45	TYR	CA-C-O	-5.31	114.62	120.36
1	HQ	89	GLU	CA-C-O	-5.31	114.92	120.55
1	OH	50	VAL	CA-C-O	-5.31	115.12	121.28
1	NN	73	ASP	CB-CA-C	5.31	119.92	109.72
1	ON	45	TYR	CA-C-O	-5.31	114.62	120.36
1	KY	84	VAL	N-CA-C	-5.31	104.26	110.05
1	OZ	50	VAL	CA-C-O	-5.31	115.12	121.28
1	Kn	84	VAL	N-CA-C	-5.31	104.26	110.05
1	Ok	45	TYR	CA-C-O	-5.31	114.62	120.36
1	Gp	73	ASP	N-CA-C	-5.31	106.80	113.28
1	KE	43	GLY	N-CA-C	-5.31	108.31	115.21
1	NC	73	ASP	CB-CA-C	5.31	119.92	109.72
1	H3	61	VAL	N-CA-C	-5.31	105.36	110.72
1	G0	37	GLY	N-CA-C	5.31	120.70	111.14
1	KT	43	GLY	N-CA-C	-5.31	108.31	115.21
1	KH	84	VAL	N-CA-C	-5.31	104.26	110.05
1	OJ	45	TYR	CA-C-O	-5.31	114.62	120.36
1	GF	37	GLY	N-CA-C	5.31	120.70	111.14
1	LO	10	GLY	CA-C-O	-5.31	116.80	120.94
1	NF	46	VAL	CA-C-O	-5.31	115.12	121.28
1	Ca	21	ILE	N-CA-C	-5.31	105.36	110.72
1	Nd	73	ASP	CB-CA-C	5.31	119.91	109.72
1	Cp	21	ILE	N-CA-C	-5.31	105.36	110.72
1	D4	53	GLU	N-CA-C	-5.31	103.52	110.53
3	Xh	725	THR	CA-C-O	-5.31	115.17	121.60
1	HD	61	VAL	N-CA-C	-5.31	105.36	110.72
1	KB	43	GLY	N-CA-C	-5.31	108.31	115.21
1	K3	84	VAL	N-CA-C	-5.31	104.27	110.05
1	K4	84	VAL	N-CA-C	-5.31	104.27	110.05
1	N4	73	ASP	CB-CA-C	5.31	119.91	109.72
1	F6	78	ALA	CA-C-O	-5.31	114.60	120.33
1	K7	43	GLY	N-CA-C	-5.31	108.31	115.21
1	N9	73	ASP	CB-CA-C	5.31	119.91	109.72
1	HS	61	VAL	N-CA-C	-5.31	105.36	110.72
1	KJ	84	VAL	N-CA-C	-5.31	104.27	110.05
1	NJ	73	ASP	CB-CA-C	5.31	119.91	109.72
1	CN	21	ILE	N-CA-C	-5.31	105.36	110.72
1	Gi	73	ASP	N-CA-C	-5.31	106.81	113.28
1	Ke	43	GLY	N-CA-C	-5.31	108.31	115.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CY	83	ARG	CA-C-O	-5.31	114.48	120.32
1	Od	50	VAL	CA-C-O	-5.31	115.12	121.28
1	Cl	21	ILE	N-CA-C	-5.31	105.36	110.72
1	Cn	83	ARG	CA-C-O	-5.31	114.48	120.32
3	Xw	725	THR	CA-C-O	-5.31	115.18	121.60
1	EF	78	ALA	N-CA-C	-5.31	99.95	108.55
1	G3	50	VAL	CA-C-O	-5.31	116.10	121.67
3	YQ	831	SER	CA-C-O	-5.31	115.75	121.38
1	GL	73	ASP	N-CA-C	-5.31	106.81	113.28
1	Hi	89	GLU	CA-C-O	-5.31	114.93	120.55
1	Lg	40	PHE	N-CA-C	-5.31	99.87	108.41
1	Ni	46	VAL	CA-C-O	-5.31	115.12	121.28
1	Ft	78	ALA	CA-C-O	-5.31	114.60	120.33
1	Hx	89	GLU	CA-C-O	-5.31	114.93	120.55
1	CD	49	LEU	CA-C-O	-5.30	114.43	120.32
1	F7	78	ALA	CA-C-O	-5.30	114.60	120.33
1	KP	43	GLY	N-CA-C	-5.30	108.31	115.21
1	KQ	43	GLY	N-CA-C	-5.30	108.31	115.21
1	NT	46	VAL	CA-C-O	-5.30	115.13	121.28
1	OK	45	TYR	CA-C-O	-5.30	114.63	120.36
1	HN	61	VAL	N-CA-C	-5.30	105.36	110.72
3	YN	719	LEU	N-CA-C	5.30	117.53	110.53
1	Kh	84	VAL	N-CA-C	-5.30	104.27	110.05
1	HZ	89	GLU	CA-C-O	-5.30	114.93	120.55
1	Nb	73	ASP	CB-CA-C	5.30	119.90	109.72
1	No	46	VAL	CA-C-O	-5.30	115.13	121.28
1	Or	50	VAL	CA-C-O	-5.30	115.13	121.28
1	LE	31	ALA	CA-C-O	-5.30	115.61	121.28
1	OE	45	TYR	CA-C-O	-5.30	114.63	120.36
1	H4	61	VAL	N-CA-C	-5.30	105.36	110.72
1	GT	73	ASP	N-CA-C	-5.30	106.81	113.28
1	KR	43	GLY	N-CA-C	-5.30	108.32	115.21
1	LT	31	ALA	CA-C-O	-5.30	115.61	121.28
1	OP	45	TYR	CA-C-O	-5.30	114.63	120.36
1	OT	45	TYR	CA-C-O	-5.30	114.63	120.36
1	Oe	45	TYR	CA-C-O	-5.30	114.63	120.36
1	Na	46	VAL	CA-C-O	-5.30	115.13	121.28
1	Hn	89	GLU	CA-C-O	-5.30	114.93	120.55
1	Cj	83	ARG	CA-C-O	-5.30	114.49	120.32
1	H2	61	VAL	N-CA-C	-5.30	105.37	110.72
1	O3	50	VAL	CA-C-O	-5.30	115.13	121.28
1	O5	45	TYR	CA-C-O	-5.30	114.63	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	P2	70	ASP	N-CA-C	-5.30	105.66	113.61
1	H7	53	GLU	CA-C-O	-5.30	116.04	121.87
1	LX	40	PHE	N-CA-C	-5.30	99.88	108.41
1	NZ	46	VAL	CA-C-O	-5.30	115.13	121.28
1	OW	45	TYR	CA-C-O	-5.30	114.64	120.36
2	PW	70	ASP	N-CA-C	-5.30	105.66	113.61
1	Nw	73	ASP	CB-CA-C	5.30	119.90	109.72
1	Hl	61	VAL	N-CA-C	-5.30	105.37	110.72
1	Nl	73	ASP	CB-CA-C	5.30	119.90	109.72
2	Pl	70	ASP	N-CA-C	-5.30	105.66	113.61
1	Hq	53	GLU	CA-C-O	-5.30	116.04	121.87
1	OI	50	VAL	CA-C-O	-5.30	115.13	121.28
1	OA	45	TYR	CA-C-O	-5.30	114.64	120.36
1	L1	10	GLY	CA-C-O	-5.30	116.81	120.94
1	O3	45	TYR	CA-C-O	-5.30	114.64	120.36
1	O5	50	VAL	CA-C-O	-5.30	115.13	121.28
1	G8	50	VAL	CA-C-O	-5.30	116.11	121.67
1	H0	89	GLU	CA-C-O	-5.30	114.93	120.55
3	X9	720	ALA	N-CA-C	5.30	118.75	111.54
1	GT	50	VAL	CA-C-O	-5.30	116.11	121.67
1	OF	50	VAL	CA-C-O	-5.30	115.13	121.28
3	XO	720	ALA	N-CA-C	5.30	118.75	111.54
3	YF	800	TRP	CA-CB-CG	5.30	123.67	113.60
1	Cg	21	ILE	N-CA-C	-5.30	105.37	110.72
1	Ii	16	GLY	CA-C-O	-5.30	117.21	121.77
1	KV	84	VAL	N-CA-C	-5.30	104.27	110.05
1	KW	84	VAL	N-CA-C	-5.30	104.27	110.05
1	Gd	73	ASP	N-CA-C	-5.30	106.81	113.28
1	Kc	43	GLY	N-CA-C	-5.30	108.32	115.21
1	Nt	73	ASP	CB-CA-C	5.30	119.89	109.72
1	Lk	40	PHE	N-CA-C	-5.30	99.88	108.41
1	Oo	50	VAL	CA-C-O	-5.30	115.13	121.28
1	NL	73	ASP	CB-CA-C	5.30	119.89	109.72
1	K3	43	GLY	N-CA-C	-5.30	108.32	115.21
1	H9	89	GLU	CA-C-O	-5.30	114.93	120.55
1	Nd	46	VAL	CA-C-O	-5.30	115.13	121.28
1	Nu	73	ASP	CB-CA-C	5.30	119.89	109.72
1	Bs	49	LEU	CA-C-O	-5.30	114.98	120.70
1	Ns	73	ASP	CB-CA-C	5.30	119.89	109.72
1	KI	43	GLY	N-CA-C	-5.30	108.32	115.21
1	OC	45	TYR	CA-C-O	-5.30	114.64	120.36
1	O1	50	VAL	CA-C-O	-5.30	115.14	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O7	50	VAL	CA-C-O	-5.30	115.14	121.28
1	O9	50	VAL	CA-C-O	-5.30	115.14	121.28
1	LP	40	PHE	N-CA-C	-5.30	99.88	108.41
1	OG	50	VAL	CA-C-O	-5.30	115.14	121.28
1	HM	61	VAL	N-CA-C	-5.30	105.37	110.72
1	NO	73	ASP	CB-CA-C	5.30	119.89	109.72
1	Fe	78	ALA	CA-C-O	-5.30	114.61	120.33
1	Fg	78	ALA	CA-C-O	-5.30	114.61	120.33
1	Ne	73	ASP	CB-CA-C	5.30	119.89	109.72
1	GZ	50	VAL	CA-C-O	-5.30	116.11	121.67
1	KX	43	GLY	N-CA-C	-5.30	108.33	115.21
1	NW	73	ASP	CB-CA-C	5.30	119.89	109.72
1	Ob	50	VAL	CA-C-O	-5.30	115.14	121.28
1	Lv	40	PHE	N-CA-C	-5.30	99.88	108.41
1	On	45	TYR	CA-C-O	-5.30	114.64	120.36
1	Cp	83	ARG	CA-C-O	-5.30	114.49	120.32
1	Fj	78	ALA	CA-C-O	-5.30	114.61	120.33
1	Gq	23	ALA	CA-C-O	-5.30	115.26	120.82
1	Os	45	TYR	CA-C-O	-5.30	114.64	120.36
1	Os	50	VAL	CA-C-O	-5.30	115.14	121.28
1	JC	73	ASP	N-CA-C	5.30	117.05	111.28
3	XS	725	THR	CA-C-O	-5.30	115.19	121.60
1	LI	40	PHE	N-CA-C	-5.30	99.88	108.41
1	DF	77	ALA	N-CA-C	5.30	116.89	108.79
1	FA	78	ALA	CA-C-O	-5.29	114.61	120.33
1	G5	50	VAL	CA-C-O	-5.29	116.11	121.67
1	K2	43	GLY	N-CA-C	-5.29	108.33	115.21
1	N7	73	ASP	CB-CA-C	5.29	119.89	109.72
1	FP	78	ALA	CA-C-O	-5.29	114.61	120.33
1	OS	21	ILE	N-CA-C	-5.29	105.22	110.62
1	GK	50	VAL	CA-C-O	-5.29	116.11	121.67
2	PO	67	TYR	CA-C-N	-5.29	113.91	120.79
2	PO	67	TYR	C-N-CA	-5.29	113.91	120.79
1	Ce	83	ARG	CA-C-O	-5.29	114.50	120.32
1	HW	89	GLU	CA-C-O	-5.29	114.94	120.55
1	KW	43	GLY	N-CA-C	-5.29	108.33	115.21
1	Ha	61	VAL	N-CA-C	-5.29	105.37	110.72
1	Go	50	VAL	CA-C-O	-5.29	116.11	121.67
1	LE	10	GLY	CA-C-O	-5.29	116.81	120.94
1	O4	50	VAL	CA-C-O	-5.29	115.14	121.28
1	CS	49	LEU	CA-C-O	-5.29	114.44	120.32
1	KS	43	GLY	N-CA-C	-5.29	108.33	115.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	LS	40	PHE	N-CA-C	-5.29	99.89	108.41
1	OJ	50	VAL	CA-C-O	-5.29	115.14	121.28
1	OF	45	TYR	CA-C-O	-5.29	114.64	120.36
3	Xg	725	THR	CA-C-O	-5.29	115.20	121.60
1	FW	78	ALA	CA-C-O	-5.29	114.61	120.33
1	HZ	53	GLU	CA-C-O	-5.29	116.05	121.87
1	LV	40	PHE	N-CA-C	-5.29	99.89	108.41
1	Oc	45	TYR	CA-C-O	-5.29	114.64	120.36
1	Lx	10	GLY	CA-C-O	-5.29	116.81	120.94
1	Hm	89	GLU	CA-C-O	-5.29	114.94	120.55
1	Ho	89	GLU	CA-C-O	-5.29	114.94	120.55
1	Kn	43	GLY	N-CA-C	-5.29	108.33	115.21
1	Oq	50	VAL	CA-C-O	-5.29	115.14	121.28
1	DD	25	ASP	N-CA-C	-5.29	105.51	111.28
1	Km	43	GLY	N-CA-C	-5.29	108.33	115.21
3	XE	725	THR	CA-C-O	-5.29	115.20	121.60
1	O2	45	TYR	CA-C-O	-5.29	114.65	120.36
1	O2	50	VAL	CA-C-O	-5.29	115.14	121.28
1	L8	40	PHE	N-CA-C	-5.29	99.89	108.41
3	XT	725	THR	CA-C-O	-5.29	115.20	121.60
1	FI	78	ALA	CA-C-O	-5.29	114.62	120.33
1	Ga	73	ASP	N-CA-C	-5.29	106.82	113.28
1	Lc	40	PHE	N-CA-C	-5.29	99.89	108.41
1	OU	50	VAL	CA-C-O	-5.29	115.14	121.28
1	Kr	43	GLY	N-CA-C	-5.29	108.33	115.21
1	OI	45	TYR	CA-C-O	-5.29	114.64	120.36
1	FS	78	ALA	CA-C-O	-5.29	114.62	120.33
1	OG	45	TYR	CA-C-O	-5.29	114.65	120.36
1	LY	40	PHE	N-CA-C	-5.29	99.89	108.41
1	Fb	78	ALA	CA-C-O	-5.29	114.62	120.33
1	Ho	53	GLU	CA-C-O	-5.29	116.05	121.87
3	XC	725	THR	CA-C-O	-5.29	115.20	121.60
1	C8	21	ILE	N-CA-C	-5.29	105.38	110.72
1	G6	73	ASP	N-CA-C	-5.29	106.83	113.28
1	K8	43	GLY	N-CA-C	-5.29	108.33	115.21
1	OQ	50	VAL	CA-C-O	-5.29	115.14	121.28
1	CH	83	ARG	CA-C-O	-5.29	114.50	120.32
1	GI	50	VAL	CA-C-O	-5.29	116.12	121.67
1	KN	43	GLY	N-CA-C	-5.29	108.33	115.21
1	LO	40	PHE	N-CA-C	-5.29	99.90	108.41
1	Gb	23	ALA	CA-C-O	-5.29	115.27	120.82
1	Oc	50	VAL	CA-C-O	-5.29	115.15	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Go	73	ASP	N-CA-C	-5.29	106.83	113.28
1	Nk	73	ASP	CB-CA-C	5.29	119.88	109.72
1	LN	40	PHE	N-CA-C	-5.29	99.89	108.41
1	OA	50	VAL	CA-C-O	-5.29	115.15	121.28
1	O8	50	VAL	CA-C-O	-5.29	115.15	121.28
1	GR	50	VAL	CA-C-O	-5.29	116.12	121.67
1	LQ	10	GLY	CA-C-O	-5.29	116.82	120.94
1	OP	50	VAL	CA-C-O	-5.29	115.15	121.28
1	KH	43	GLY	N-CA-C	-5.29	108.34	115.21
1	ON	50	VAL	CA-C-O	-5.29	115.15	121.28
1	Bh	49	LEU	CA-C-O	-5.29	114.99	120.70
1	Gg	50	VAL	CA-C-O	-5.29	116.12	121.67
1	Le	10	GLY	CA-C-O	-5.29	116.82	120.94
1	Of	45	TYR	CA-C-O	-5.29	114.65	120.36
1	Oh	21	ILE	N-CA-C	-5.29	105.23	110.62
1	Gv	50	VAL	CA-C-O	-5.29	116.12	121.67
1	Kw	84	VAL	N-CA-C	-5.29	104.29	110.05
1	Hm	61	VAL	N-CA-C	-5.29	105.38	110.72
1	KA	43	GLY	N-CA-C	-5.29	108.34	115.21
1	F1	78	ALA	CA-C-O	-5.29	114.62	120.33
1	L1	40	PHE	N-CA-C	-5.29	99.90	108.41
1	H9	61	VAL	N-CA-C	-5.29	105.38	110.72
1	N6	46	VAL	CA-C-O	-5.29	115.15	121.28
1	O9	45	TYR	CA-C-O	-5.29	114.65	120.36
1	FG	78	ALA	CA-C-O	-5.29	114.62	120.33
1	OO	45	TYR	CA-C-O	-5.29	114.65	120.36
3	XW	623	ALA	N-CA-C	5.29	118.10	110.28
1	Fo	78	ALA	CA-C-O	-5.29	114.62	120.33
1	Lj	10	GLY	CA-C-O	-5.29	116.82	120.94
1	Lr	31	ALA	CA-C-O	-5.29	115.62	121.28
1	Nq	46	VAL	CA-C-O	-5.29	115.15	121.28
1	Dw	61	VAL	CA-C-N	-5.29	113.57	120.44
1	Dw	61	VAL	C-N-CA	-5.29	113.57	120.44
1	DF	36	VAL	N-CA-C	5.29	116.06	110.72
1	F4	78	ALA	CA-C-O	-5.28	114.62	120.33
1	H4	89	GLU	CA-C-O	-5.28	114.95	120.55
1	HT	61	VAL	N-CA-C	-5.28	105.38	110.72
1	HH	61	VAL	N-CA-C	-5.28	105.38	110.72
1	KF	43	GLY	N-CA-C	-5.28	108.34	115.21
1	CY	49	LEU	CA-C-O	-5.28	114.46	120.32
1	GX	50	VAL	CA-C-O	-5.28	116.12	121.67
1	OX	50	VAL	CA-C-O	-5.28	115.15	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	FU	78	ALA	CA-C-O	-5.28	114.62	120.33
3	Ya	711	GLY	N-CA-C	5.28	119.07	112.73
1	Gm	50	VAL	CA-C-O	-5.28	116.12	121.67
1	Ll	40	PHE	N-CA-C	-5.28	99.90	108.41
1	Fp	78	ALA	CA-C-O	-5.28	114.62	120.33
1	Nq	73	ASP	CB-CA-C	5.28	119.86	109.72
1	FY	78	ALA	CA-C-O	-5.28	114.62	120.33
1	Om	50	VAL	CA-C-O	-5.28	115.15	121.28
1	GC	50	VAL	CA-C-O	-5.28	116.12	121.67
1	OE	50	VAL	CA-C-O	-5.28	115.15	121.28
1	HR	53	GLU	CA-C-O	-5.28	116.06	121.87
1	OT	50	VAL	CA-C-O	-5.28	115.15	121.28
1	Ki	43	GLY	N-CA-C	-5.28	108.34	115.21
1	DM	65	ALA	N-CA-C	-5.28	105.52	111.28
1	CA	83	ARG	CA-C-O	-5.28	114.51	120.32
1	KD	43	GLY	N-CA-C	-5.28	108.34	115.21
1	LD	40	PHE	N-CA-C	-5.28	99.91	108.41
1	L2	10	GLY	CA-C-O	-5.28	116.82	120.94
1	N5	46	VAL	CA-C-O	-5.28	115.16	121.28
3	X2	623	ALA	N-CA-C	5.28	118.09	110.28
1	FK	78	ALA	CA-C-O	-5.28	114.63	120.33
1	HJ	53	GLU	CA-C-O	-5.28	116.06	121.87
1	LH	10	GLY	CA-C-O	-5.28	116.82	120.94
1	NK	46	VAL	CA-C-O	-5.28	115.16	121.28
1	KO	43	GLY	N-CA-C	-5.28	108.34	115.21
1	OL	45	TYR	CA-C-O	-5.28	114.66	120.36
1	Bf	49	LEU	CA-C-O	-5.28	115.00	120.70
1	Fi	78	ALA	CA-C-O	-5.28	114.63	120.33
1	HX	61	VAL	N-CA-C	-5.28	105.39	110.72
1	HY	89	GLU	CA-C-O	-5.28	114.95	120.55
1	OV	50	VAL	CA-C-O	-5.28	115.16	121.28
1	Bw	49	LEU	CA-C-O	-5.28	115.00	120.70
1	Lt	10	GLY	CA-C-O	-5.28	116.82	120.94
1	Lt	40	PHE	N-CA-C	-5.28	99.91	108.41
1	Kk	84	VAL	N-CA-C	-5.28	104.30	110.05
1	Ll	10	GLY	CA-C-O	-5.28	116.82	120.94
1	Ln	40	PHE	N-CA-C	-5.28	99.91	108.41
3	Xl	623	ALA	N-CA-C	5.28	118.09	110.28
1	Aj	89	GLU	CA-C-N	5.28	127.79	120.29
1	Aj	89	GLU	C-N-CA	5.28	127.79	120.29
1	Cr	21	ILE	N-CA-C	-5.28	105.39	110.72
1	Ns	46	VAL	CA-C-O	-5.28	115.15	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	OD	45	TYR	CA-C-O	-5.28	114.66	120.36
1	Nj	46	VAL	CA-C-O	-5.28	115.16	121.28
1	Dh	61	VAL	CA-C-N	-5.28	113.58	120.44
1	Dh	61	VAL	C-N-CA	-5.28	113.58	120.44
1	FC	78	ALA	CA-C-O	-5.28	114.63	120.33
1	F2	78	ALA	CA-C-O	-5.28	114.63	120.33
1	NM	73	ASP	CB-CA-C	5.28	119.85	109.72
1	Gh	73	ASP	N-CA-C	-5.28	106.84	113.28
1	Kh	43	GLY	N-CA-C	-5.28	108.35	115.21
1	Lh	40	PHE	N-CA-C	-5.28	99.91	108.41
1	HY	61	VAL	N-CA-C	-5.28	105.39	110.72
1	KY	43	GLY	N-CA-C	-5.28	108.35	115.21
1	Fa	78	ALA	CA-C-O	-5.28	114.63	120.33
1	Gw	73	ASP	N-CA-C	-5.28	106.84	113.28
1	Cr	83	ARG	CA-C-O	-5.28	114.52	120.32
1	Hq	89	GLU	CA-C-O	-5.28	114.96	120.55
2	Ps	67	TYR	CA-C-N	-5.28	113.93	120.79
2	Ps	67	TYR	C-N-CA	-5.28	113.93	120.79
1	FE	78	ALA	CA-C-O	-5.28	114.63	120.33
1	HB	61	VAL	N-CA-C	-5.28	105.39	110.72
1	F5	78	ALA	CA-C-O	-5.28	114.63	120.33
1	K1	43	GLY	N-CA-C	-5.28	108.35	115.21
1	L4	10	GLY	CA-C-O	-5.28	116.83	120.94
1	L0	10	GLY	CA-C-O	-5.28	116.83	120.94
1	CH	49	LEU	CA-C-O	-5.28	114.46	120.32
1	KG	43	GLY	N-CA-C	-5.28	108.35	115.21
1	LG	10	GLY	CA-C-O	-5.28	116.83	120.94
1	LF	10	GLY	CA-C-O	-5.28	116.83	120.94
1	Hf	61	VAL	N-CA-C	-5.28	105.39	110.72
1	Ih	16	GLY	CA-C-O	-5.28	117.23	121.77
1	Gc	50	VAL	CA-C-O	-5.28	116.13	121.67
1	La	10	GLY	CA-C-O	-5.28	116.83	120.94
1	Lb	40	PHE	N-CA-C	-5.28	99.92	108.41
3	Yc	719	LEU	N-CA-C	5.28	117.49	110.53
1	Gt	73	ASP	N-CA-C	-5.28	106.84	113.28
3	Xx	725	THR	CA-C-O	-5.28	115.22	121.60
1	Gn	50	VAL	CA-C-O	-5.28	116.13	121.67
1	Kj	43	GLY	N-CA-C	-5.28	108.35	115.21
1	Lq	40	PHE	N-CA-C	-5.28	99.92	108.41
1	L3	10	GLY	CA-C-O	-5.28	116.83	120.94
1	GE	73	ASP	N-CA-C	-5.27	106.85	113.28
1	L2	40	PHE	N-CA-C	-5.27	99.92	108.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	P9	67	TYR	CA-C-N	-5.27	113.93	120.79
2	P9	67	TYR	C-N-CA	-5.27	113.93	120.79
2	PO	53	VAL	N-CA-C	5.27	116.74	109.46
1	Hg	89	GLU	CA-C-O	-5.27	114.96	120.55
1	Lh	10	GLY	CA-C-O	-5.27	116.83	120.94
1	BW	49	LEU	CA-C-O	-5.27	115.00	120.70
1	LW	40	PHE	N-CA-C	-5.27	99.92	108.41
1	GU	37	GLY	N-CA-C	5.27	120.63	111.14
1	Lr	40	PHE	N-CA-C	-5.27	99.92	108.41
1	Oj	50	VAL	CA-C-O	-5.27	115.16	121.28
1	LA	40	PHE	N-CA-C	-5.27	99.92	108.41
1	L4	40	PHE	N-CA-C	-5.27	99.92	108.41
1	Le	40	PHE	N-CA-C	-5.27	99.92	108.41
1	Kd	84	VAL	N-CA-C	-5.27	104.30	110.05
1	NU	46	VAL	CA-C-O	-5.27	115.16	121.28
1	Bu	49	LEU	CA-C-O	-5.27	115.01	120.70
1	Nu	46	VAL	CA-C-O	-5.27	115.16	121.28
1	Cl	49	LEU	CA-C-O	-5.27	114.47	120.32
1	Fk	78	ALA	CA-C-O	-5.27	114.64	120.33
1	Hl	53	GLU	CA-C-O	-5.27	116.07	121.87
1	Ks	43	GLY	N-CA-C	-5.27	108.36	115.21
1	Lp	10	GLY	CA-C-O	-5.27	116.83	120.94
1	Db	22	GLU	N-CA-C	-5.27	105.53	111.28
1	L3	40	PHE	N-CA-C	-5.27	99.92	108.41
1	O4	45	TYR	CA-C-O	-5.27	114.67	120.36
1	C9	49	LEU	CA-C-O	-5.27	114.47	120.32
1	L6	10	GLY	CA-C-O	-5.27	116.83	120.94
1	L9	40	PHE	N-CA-C	-5.27	99.92	108.41
1	N0	46	VAL	CA-C-O	-5.27	115.17	121.28
1	AT	89	GLU	CA-C-N	5.27	127.78	120.29
1	AT	89	GLU	C-N-CA	5.27	127.78	120.29
1	CQ	83	ARG	CA-C-O	-5.27	114.52	120.32
1	CO	49	LEU	CA-C-O	-5.27	114.47	120.32
1	LL	10	GLY	CA-C-O	-5.27	116.83	120.94
1	Oe	50	VAL	CA-C-O	-5.27	115.17	121.28
1	LX	10	GLY	CA-C-O	-5.27	116.83	120.94
1	Hb	53	GLU	CA-C-O	-5.27	116.07	121.87
1	KU	43	GLY	N-CA-C	-5.27	108.36	115.21
1	Ld	40	PHE	N-CA-C	-5.27	99.92	108.41
2	Pd	67	TYR	CA-C-N	-5.27	113.94	120.79
2	Pd	67	TYR	C-N-CA	-5.27	113.94	120.79
1	Ls	40	PHE	N-CA-C	-5.27	99.92	108.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D4	84	VAL	N-CA-C	5.27	116.17	108.53
1	Fh	78	ALA	CA-C-O	-5.27	114.64	120.33
1	CB	83	ARG	CA-C-O	-5.27	114.52	120.32
1	C4	49	LEU	CA-C-O	-5.27	114.47	120.32
1	K5	43	GLY	N-CA-C	-5.27	108.36	115.21
1	G9	73	ASP	N-CA-C	-5.27	106.85	113.28
1	FR	78	ALA	CA-C-O	-5.27	114.64	120.33
1	CJ	49	LEU	CA-C-O	-5.27	114.47	120.32
1	KK	43	GLY	N-CA-C	-5.27	108.36	115.21
1	LG	40	PHE	N-CA-C	-5.27	99.93	108.41
1	FO	78	ALA	CA-C-O	-5.27	114.64	120.33
1	OM	50	VAL	CA-C-O	-5.27	115.17	121.28
3	XO	647	GLN	N-CA-C	5.27	116.71	111.07
1	CW	83	ARG	CA-C-O	-5.27	114.52	120.32
1	HV	89	GLU	CA-C-O	-5.27	114.96	120.55
1	Kd	43	GLY	N-CA-C	-5.27	108.36	115.21
1	Hw	61	VAL	N-CA-C	-5.27	105.40	110.72
1	Lw	40	PHE	N-CA-C	-5.27	99.93	108.41
1	Hk	89	GLU	CA-C-O	-5.27	114.96	120.55
3	Yl	831	SER	CA-C-O	-5.27	115.79	121.38
1	Gs	73	ASP	N-CA-C	-5.27	106.85	113.28
1	Lj	40	PHE	N-CA-C	-5.27	99.92	108.41
3	XI	628	THR	CA-CB-CG2	5.27	119.46	110.50
1	OD	21	ILE	N-CA-C	-5.27	105.25	110.62
1	NQ	46	VAL	CA-C-O	-5.27	115.17	121.28
1	GI	73	ASP	N-CA-C	-5.27	106.85	113.28
1	GO	73	ASP	N-CA-C	-5.27	106.85	113.28
1	Li	31	ALA	CA-C-O	-5.27	115.64	121.28
1	GZ	73	ASP	N-CA-C	-5.27	106.85	113.28
1	LY	10	GLY	CA-C-O	-5.27	116.83	120.94
1	Kb	43	GLY	N-CA-C	-5.27	108.36	115.21
1	Cv	21	ILE	N-CA-C	-5.27	105.40	110.72
1	Lw	10	GLY	CA-C-O	-5.27	116.83	120.94
1	Ow	21	ILE	N-CA-C	-5.27	105.25	110.62
1	Ln	10	GLY	CA-C-O	-5.27	116.83	120.94
1	Ol	45	TYR	CA-C-O	-5.27	114.67	120.36
1	Gj	37	GLY	N-CA-C	5.27	120.62	111.14
1	B4	49	LEU	CA-C-O	-5.27	115.01	120.70
1	G4	73	ASP	N-CA-C	-5.27	106.86	113.28
1	N9	46	VAL	CA-C-O	-5.27	115.17	121.28
1	Oi	50	VAL	CA-C-O	-5.27	115.17	121.28
1	Fm	14	THR	CA-C-O	-5.27	115.61	121.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Fn	78	ALA	CA-C-O	-5.27	114.64	120.33
1	LQ	40	PHE	N-CA-C	-5.26	99.94	108.41
1	FH	78	ALA	CA-C-O	-5.26	114.64	120.33
1	GM	73	ASP	N-CA-C	-5.26	106.86	113.28
1	GN	50	VAL	CA-C-O	-5.26	116.14	121.67
1	LF	40	PHE	N-CA-C	-5.26	99.93	108.41
1	OX	21	ILE	N-CA-C	-5.26	105.25	110.62
1	Bd	49	LEU	CA-C-O	-5.26	115.02	120.70
3	Yb	831	SER	CA-C-O	-5.26	115.80	121.38
1	Ox	45	TYR	CA-C-O	-5.26	114.67	120.36
1	Cd	49	LEU	CA-C-O	-5.26	114.48	120.32
1	Fc	78	ALA	CA-C-O	-5.26	114.65	120.33
1	Fd	78	ALA	CA-C-O	-5.26	114.65	120.33
1	Hk	53	GLU	CA-C-O	-5.26	116.08	121.87
1	BB	49	LEU	CA-C-O	-5.26	115.02	120.70
1	K4	43	GLY	N-CA-C	-5.26	108.37	115.21
1	L5	40	PHE	N-CA-C	-5.26	99.94	108.41
1	G6	50	VAL	CA-C-O	-5.26	116.15	121.67
1	O7	45	TYR	CA-C-O	-5.26	114.68	120.36
1	FT	78	ALA	CA-C-O	-5.26	114.65	120.33
1	KJ	43	GLY	N-CA-C	-5.26	108.37	115.21
1	LJ	40	PHE	N-CA-C	-5.26	99.94	108.41
1	LK	40	PHE	N-CA-C	-5.26	99.94	108.41
1	OM	45	TYR	CA-C-O	-5.26	114.68	120.36
1	NY	46	VAL	CA-C-O	-5.26	115.18	121.28
1	OZ	45	TYR	CA-C-O	-5.26	114.68	120.36
1	AU	89	GLU	CA-C-N	5.26	127.76	120.29
1	AU	89	GLU	C-N-CA	5.26	127.76	120.29
1	LU	40	PHE	N-CA-C	-5.26	99.94	108.41
1	Ob	21	ILE	N-CA-C	-5.26	105.25	110.62
1	Lo	40	PHE	N-CA-C	-5.26	99.94	108.41
1	Kp	43	GLY	N-CA-C	-5.26	108.37	115.21
1	EL	38	ARG	N-CA-C	-5.26	99.71	108.34
1	OB	45	TYR	CA-C-O	-5.26	114.68	120.36
1	G1	73	ASP	N-CA-C	-5.26	106.86	113.28
1	C6	83	ARG	CA-C-O	-5.26	114.53	120.32
1	F9	78	ALA	CA-C-O	-5.26	114.65	120.33
1	OQ	45	TYR	CA-C-O	-5.26	114.68	120.36
1	GG	73	ASP	N-CA-C	-5.26	106.86	113.28
1	CL	83	ARG	CA-C-O	-5.26	114.53	120.32
1	HO	53	GLU	CA-C-O	-5.26	116.09	121.87
1	CW	49	LEU	CA-C-O	-5.26	114.48	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Ca	83	ARG	CA-C-O	-5.26	114.53	120.32
2	Pd	53	VAL	N-CA-C	5.26	116.72	109.46
1	Cn	49	LEU	CA-C-O	-5.26	114.48	120.32
1	Hm	53	GLU	CA-C-O	-5.26	116.09	121.87
1	Fs	78	ALA	CA-C-O	-5.26	114.65	120.33
1	Ks	84	VAL	N-CA-C	-5.26	104.32	110.05
1	Os	21	ILE	N-CA-C	-5.26	105.25	110.62
3	Yp	831	SER	CA-C-O	-5.26	115.80	121.38
1	J6	92	LEU	N-CA-C	5.26	117.55	110.29
1	HE	53	GLU	CA-C-O	-5.26	116.09	121.87
1	C7	83	ARG	CA-C-O	-5.26	114.54	120.32
1	K0	43	GLY	N-CA-C	-5.26	108.38	115.21
3	YM	831	SER	CA-C-O	-5.26	115.81	121.38
1	Hi	53	GLU	CA-C-O	-5.26	116.09	121.87
1	Cb	83	ARG	CA-C-O	-5.26	114.54	120.32
1	Ax	89	GLU	CA-C-N	5.26	127.76	120.29
1	Ax	89	GLU	C-N-CA	5.26	127.76	120.29
1	Hx	53	GLU	CA-C-O	-5.26	116.09	121.87
1	Cq	83	ARG	CA-C-O	-5.26	114.54	120.32
1	DJ	40	PHE	N-CA-C	-5.26	99.19	108.23
1	FD	78	ALA	CA-C-O	-5.26	114.65	120.33
1	C8	83	ARG	CA-C-O	-5.26	114.54	120.32
1	HT	53	GLU	CA-C-O	-5.26	116.09	121.87
1	NS	46	VAL	CA-C-O	-5.26	115.18	121.28
1	OS	45	TYR	CA-C-O	-5.26	114.68	120.36
1	FM	78	ALA	CA-C-O	-5.26	114.65	120.33
1	KZ	43	GLY	N-CA-C	-5.26	108.38	115.21
1	Gb	73	ASP	N-CA-C	-5.26	106.87	113.28
3	Xs	647	GLN	N-CA-C	5.26	116.69	111.07
1	Fq	78	ALA	CA-C-O	-5.26	114.65	120.33
1	O0	45	TYR	CA-C-O	-5.25	114.69	120.36
1	OH	21	ILE	N-CA-C	-5.25	105.26	110.62
1	GL	50	VAL	CA-C-O	-5.25	116.15	121.67
1	HO	61	VAL	N-CA-C	-5.25	105.41	110.72
1	Kq	43	GLY	N-CA-C	-5.25	108.38	115.21
1	DU	92	LEU	CA-C-N	-5.25	113.27	119.84
1	DU	92	LEU	C-N-CA	-5.25	113.27	119.84
1	HC	53	GLU	CA-C-O	-5.25	116.09	121.87
1	LE	40	PHE	N-CA-C	-5.25	99.95	108.41
1	H4	53	GLU	CA-C-O	-5.25	116.09	121.87
1	B9	49	LEU	CA-C-O	-5.25	115.03	120.70
1	F0	78	ALA	CA-C-O	-5.25	114.66	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F8	78	ALA	CA-C-O	-5.25	114.66	120.33
1	G8	73	ASP	N-CA-C	-5.25	106.87	113.28
1	K9	43	GLY	N-CA-C	-5.25	108.38	115.21
1	LR	10	GLY	CA-C-O	-5.25	116.84	120.94
1	FN	78	ALA	CA-C-O	-5.25	114.66	120.33
1	GN	73	ASP	N-CA-C	-5.25	106.87	113.28
1	FZ	78	ALA	CA-C-O	-5.25	114.66	120.33
1	Ob	45	TYR	CA-C-O	-5.25	114.69	120.36
1	Kw	43	GLY	N-CA-C	-5.25	108.38	115.21
1	Lx	31	ALA	CA-C-O	-5.25	115.66	121.28
1	Ao	89	GLU	CA-C-N	5.25	127.75	120.29
1	Ao	89	GLU	C-N-CA	5.25	127.75	120.29
1	Ck	83	ARG	CA-C-O	-5.25	114.54	120.32
1	Fr	78	ALA	CA-C-O	-5.25	114.66	120.33
1	Oj	45	TYR	CA-C-O	-5.25	114.69	120.36
1	Oq	45	TYR	CA-C-O	-5.25	114.69	120.36
3	Yr	719	LEU	N-CA-C	5.25	117.47	110.53
1	LM	40	PHE	N-CA-C	-5.25	99.95	108.41
1	GD	73	ASP	N-CA-C	-5.25	106.87	113.28
1	LA	10	GLY	CA-C-O	-5.25	116.84	120.94
1	C2	49	LEU	CA-C-O	-5.25	114.49	120.32
1	G3	73	ASP	N-CA-C	-5.25	106.87	113.28
1	H2	53	GLU	CA-C-O	-5.25	116.09	121.87
1	O8	21	ILE	N-CA-C	-5.25	105.26	110.62
1	GS	73	ASP	N-CA-C	-5.25	106.87	113.28
1	BJ	49	LEU	CA-C-O	-5.25	115.03	120.70
1	HI	61	VAL	N-CA-C	-5.25	105.42	110.72
1	LH	40	PHE	N-CA-C	-5.25	99.95	108.41
1	BO	49	LEU	CA-C-O	-5.25	115.03	120.70
1	NO	46	VAL	CA-C-O	-5.25	115.19	121.28
1	Ai	89	GLU	CA-C-N	5.25	127.75	120.29
1	Ai	89	GLU	C-N-CA	5.25	127.75	120.29
1	Ch	49	LEU	CA-C-O	-5.25	114.49	120.32
1	Hg	53	GLU	CA-C-O	-5.25	116.09	121.87
1	GV	50	VAL	CA-C-O	-5.25	116.16	121.67
1	OV	45	TYR	CA-C-O	-5.25	114.69	120.36
1	OY	45	TYR	CA-C-O	-5.25	114.69	120.36
1	OY	50	VAL	CA-C-O	-5.25	115.19	121.28
1	OU	45	TYR	CA-C-O	-5.25	114.69	120.36
1	Cw	49	LEU	CA-C-O	-5.25	114.49	120.32
1	Ou	45	TYR	CA-C-O	-5.25	114.69	120.36
1	Gn	73	ASP	N-CA-C	-5.25	106.87	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Nl	46	VAL	CA-C-O	-5.25	115.19	121.28
1	Ok	21	ILE	N-CA-C	-5.25	105.26	110.62
1	LI	10	GLY	CA-C-O	-5.25	116.84	120.94
1	G1	50	VAL	CA-C-O	-5.25	116.16	121.67
1	L0	40	PHE	N-CA-C	-5.25	99.96	108.41
1	Gk	50	VAL	CA-C-O	-5.25	116.16	121.67
2	Ps	53	VAL	N-CA-C	5.25	116.70	109.46
1	AE	89	GLU	CA-C-N	5.25	127.74	120.29
1	AE	89	GLU	C-N-CA	5.25	127.74	120.29
1	F3	78	ALA	CA-C-O	-5.25	114.66	120.33
1	H3	53	GLU	CA-C-O	-5.25	116.10	121.87
1	C7	49	LEU	CA-C-O	-5.25	114.49	120.32
1	G7	73	ASP	N-CA-C	-5.25	106.88	113.28
3	Y7	831	SER	CA-C-O	-5.25	115.82	121.38
1	LT	40	PHE	N-CA-C	-5.25	99.96	108.41
1	GJ	73	ASP	N-CA-C	-5.25	106.88	113.28
1	GK	73	ASP	N-CA-C	-5.25	106.88	113.28
1	HI	53	GLU	CA-C-O	-5.25	116.10	121.87
3	XH	623	ALA	N-CA-C	5.25	118.05	110.28
1	Lf	40	PHE	N-CA-C	-5.25	99.96	108.41
1	GV	73	ASP	N-CA-C	-5.25	106.88	113.28
1	GY	73	ASP	N-CA-C	-5.25	106.88	113.28
1	Fx	78	ALA	CA-C-O	-5.25	114.66	120.33
1	Lu	40	PHE	N-CA-C	-5.25	99.96	108.41
1	Bk	49	LEU	CA-C-O	-5.25	115.03	120.70
1	Oo	45	TYR	CA-C-O	-5.25	114.69	120.36
1	Cq	49	LEU	CA-C-O	-5.25	114.50	120.32
1	Hs	61	VAL	N-CA-C	-5.25	105.42	110.72
3	Yp	711	GLY	N-CA-C	5.25	119.03	112.73
3	Yq	831	SER	CA-C-O	-5.25	115.82	121.38
1	DD	31	ALA	N-CA-C	5.25	117.39	109.41
1	Dh	65	ALA	N-CA-C	-5.25	105.45	111.07
1	GA	73	ASP	N-CA-C	-5.25	106.88	113.28
3	YB	831	SER	CA-C-O	-5.25	115.82	121.38
1	G5	73	ASP	N-CA-C	-5.25	106.88	113.28
3	X9	647	GLN	N-CA-C	5.25	116.68	111.07
1	GP	73	ASP	N-CA-C	-5.25	106.88	113.28
1	HS	53	GLU	CA-C-O	-5.25	116.10	121.87
1	AI	89	GLU	CA-C-N	5.25	127.74	120.29
1	AI	89	GLU	C-N-CA	5.25	127.74	120.29
1	Ge	73	ASP	N-CA-C	-5.25	106.88	113.28
1	FV	78	ALA	CA-C-O	-5.25	114.66	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	OW	21	ILE	N-CA-C	-5.25	105.27	110.62
1	Hb	89	GLU	CA-C-O	-5.25	114.99	120.55
1	La	40	PHE	N-CA-C	-5.25	99.97	108.41
1	Nn	46	VAL	CA-C-O	-5.25	115.19	121.28
3	Xs	722	GLY	N-CA-C	5.25	119.03	112.73
3	XD	617	SER	N-CA-C	5.25	117.39	109.41
1	HB	53	GLU	CA-C-O	-5.25	116.10	121.87
1	HQ	53	GLU	CA-C-O	-5.25	116.10	121.87
3	YI	831	SER	CA-C-O	-5.25	115.82	121.38
1	Hu	61	VAL	N-CA-C	-5.25	105.42	110.72
1	Bp	49	LEU	CA-C-O	-5.25	115.03	120.70
1	Lp	40	PHE	N-CA-C	-5.25	99.97	108.41
1	LB	40	PHE	N-CA-C	-5.24	99.97	108.41
1	OB	21	ILE	N-CA-C	-5.24	105.27	110.62
1	A5	89	GLU	CA-C-N	5.24	127.73	120.29
1	A5	89	GLU	C-N-CA	5.24	127.73	120.29
1	C2	83	ARG	CA-C-O	-5.24	114.55	120.32
2	P9	53	VAL	N-CA-C	5.24	116.70	109.46
1	OQ	21	ILE	N-CA-C	-5.24	105.27	110.62
1	GG	50	VAL	CA-C-O	-5.24	116.16	121.67
1	OK	21	ILE	N-CA-C	-5.24	105.27	110.62
1	OO	50	VAL	CA-C-O	-5.24	115.20	121.28
1	He	53	GLU	CA-C-O	-5.24	116.10	121.87
1	Nf	46	VAL	CA-C-O	-5.24	115.20	121.28
3	Yf	831	SER	CA-C-O	-5.24	115.82	121.38
1	LZ	40	PHE	N-CA-C	-5.24	99.97	108.41
1	Ha	53	GLU	CA-C-O	-5.24	116.10	121.87
1	Nb	46	VAL	CA-C-O	-5.24	115.20	121.28
1	Ht	53	GLU	CA-C-O	-5.24	116.10	121.87
1	Hv	53	GLU	CA-C-O	-5.24	116.10	121.87
1	Lx	40	PHE	N-CA-C	-5.24	99.97	108.41
1	Ot	50	VAL	CA-C-O	-5.24	115.20	121.28
1	Ox	21	ILE	N-CA-C	-5.24	105.27	110.62
1	HA	53	GLU	CA-C-O	-5.24	116.10	121.87
1	LB	10	GLY	CA-C-O	-5.24	116.85	120.94
1	C4	83	ARG	CA-C-O	-5.24	114.55	120.32
1	H9	53	GLU	CA-C-O	-5.24	116.10	121.87
1	L7	40	PHE	N-CA-C	-5.24	99.97	108.41
1	O6	45	TYR	CA-C-O	-5.24	114.70	120.36
1	HP	53	GLU	CA-C-O	-5.24	116.10	121.87
1	CJ	83	ARG	CA-C-O	-5.24	114.55	120.32
1	Bi	49	LEU	CA-C-O	-5.24	115.04	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	HY	53	GLU	CA-C-O	-5.24	116.10	121.87
1	CU	83	ARG	CA-C-O	-5.24	114.55	120.32
1	Hd	61	VAL	N-CA-C	-5.24	105.43	110.72
1	CB	49	LEU	CA-C-O	-5.24	114.50	120.32
1	NB	46	VAL	CA-C-O	-5.24	115.20	121.28
1	CP	83	ARG	CA-C-O	-5.24	114.56	120.32
1	CQ	49	LEU	CA-C-O	-5.24	114.50	120.32
1	FJ	78	ALA	CA-C-O	-5.24	114.67	120.33
1	GJ	23	ALA	CA-C-O	-5.24	115.32	120.82
1	Ch	83	ARG	CA-C-O	-5.24	114.56	120.32
1	Li	40	PHE	N-CA-C	-5.24	99.97	108.41
1	Cc	83	ARG	CA-C-O	-5.24	114.56	120.32
1	Cd	83	ARG	CA-C-O	-5.24	114.56	120.32
1	Cw	83	ARG	CA-C-O	-5.24	114.56	120.32
1	Gt	50	VAL	CA-C-O	-5.24	116.17	121.67
3	Xv	725	THR	CA-C-O	-5.24	115.26	121.60
1	Co	49	LEU	CA-C-O	-5.24	114.50	120.32
1	Hp	53	GLU	CA-C-O	-5.24	116.11	121.87
1	GC	73	ASP	N-CA-C	-5.24	106.89	113.28
1	B6	49	LEU	CA-C-O	-5.24	115.04	120.70
1	GR	73	ASP	N-CA-C	-5.24	106.89	113.28
1	HK	53	GLU	CA-C-O	-5.24	116.11	121.87
1	BL	49	LEU	CA-C-O	-5.24	115.04	120.70
1	CM	83	ARG	CA-C-O	-5.24	114.56	120.32
1	GY	23	ALA	CA-C-O	-5.24	115.32	120.82
1	HW	53	GLU	CA-C-O	-5.24	116.11	121.87
1	HX	53	GLU	CA-C-O	-5.24	116.11	121.87
3	YZ	831	SER	CA-C-O	-5.24	115.83	121.38
3	Xd	647	GLN	N-CA-C	5.24	116.68	111.07
1	Gv	73	ASP	N-CA-C	-5.24	106.89	113.28
1	Hv	89	GLU	CA-C-O	-5.24	115.00	120.55
1	H5	53	GLU	CA-C-O	-5.24	116.11	121.87
1	Lm	36	VAL	N-CA-C	5.24	116.01	110.72
1	BD	49	LEU	CA-C-O	-5.24	115.05	120.70
1	DB	54	THR	N-CA-C	5.24	117.39	111.11
3	YC	831	SER	CA-C-O	-5.24	115.83	121.38
1	O4	21	ILE	N-CA-C	-5.24	105.28	110.62
1	G6	23	ALA	CA-C-O	-5.24	115.32	120.82
1	BS	49	LEU	CA-C-O	-5.24	115.05	120.70
3	YR	831	SER	CA-C-O	-5.24	115.83	121.38
1	HH	53	GLU	CA-C-O	-5.24	116.11	121.87
1	ON	21	ILE	N-CA-C	-5.24	105.28	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Af	89	GLU	CA-C-N	5.24	127.73	120.29
1	Af	89	GLU	C-N-CA	5.24	127.73	120.29
1	Cf	83	ARG	CA-C-O	-5.24	114.56	120.32
1	Cg	83	ARG	CA-C-O	-5.24	114.56	120.32
1	GX	73	ASP	N-CA-C	-5.24	106.89	113.28
1	Gc	73	ASP	N-CA-C	-5.24	106.89	113.28
1	Hc	53	GLU	CA-C-O	-5.24	116.11	121.87
1	Od	21	ILE	N-CA-C	-5.24	105.28	110.62
1	On	50	VAL	CA-C-O	-5.24	115.21	121.28
1	Dh	67	ALA	N-CA-C	5.24	117.07	111.36
1	O3	21	ILE	N-CA-C	-5.23	105.28	110.62
1	CN	83	ARG	CA-C-O	-5.23	114.56	120.32
1	LL	40	PHE	N-CA-C	-5.23	99.98	108.41
1	Hf	53	GLU	CA-C-O	-5.23	116.11	121.87
1	NV	46	VAL	CA-C-O	-5.23	115.21	121.28
1	Ka	43	GLY	N-CA-C	-5.23	108.41	115.21
1	Nk	46	VAL	CA-C-O	-5.23	115.21	121.28
1	OI	21	ILE	N-CA-C	-5.23	105.28	110.62
1	B2	49	LEU	CA-C-O	-5.23	115.05	120.70
1	H1	53	GLU	CA-C-O	-5.23	116.11	121.87
1	N1	46	VAL	CA-C-O	-5.23	115.21	121.28
1	G7	23	ALA	CA-C-O	-5.23	115.33	120.82
1	K6	43	GLY	N-CA-C	-5.23	108.41	115.21
1	HG	53	GLU	CA-C-O	-5.23	116.11	121.87
1	GM	23	ALA	CA-C-O	-5.23	115.33	120.82
1	KL	43	GLY	N-CA-C	-5.23	108.41	115.21
1	Hh	53	GLU	CA-C-O	-5.23	116.11	121.87
1	Oh	45	TYR	CA-C-O	-5.23	114.71	120.36
3	YW	831	SER	CA-C-O	-5.23	115.83	121.38
1	Oa	45	TYR	CA-C-O	-5.23	114.71	120.36
3	Ya	831	SER	CA-C-O	-5.23	115.83	121.38
1	Hw	53	GLU	CA-C-O	-5.23	116.11	121.87
1	Ox	50	VAL	CA-C-O	-5.23	115.21	121.28
1	Gm	73	ASP	N-CA-C	-5.23	106.90	113.28
1	Ko	43	GLY	N-CA-C	-5.23	108.41	115.21
1	Cj	49	LEU	CA-C-O	-5.23	114.51	120.32
1	Gq	73	ASP	N-CA-C	-5.23	106.90	113.28
1	Op	45	TYR	CA-C-O	-5.23	114.71	120.36
1	G4	50	VAL	CA-C-O	-5.23	116.18	121.67
1	A0	89	GLU	CA-C-N	5.23	127.72	120.29
1	A0	89	GLU	C-N-CA	5.23	127.72	120.29
1	H8	53	GLU	CA-C-O	-5.23	116.12	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L6	40	PHE	N-CA-C	-5.23	99.99	108.41
1	LP	10	GLY	CA-C-O	-5.23	116.86	120.94
1	NG	46	VAL	CA-C-O	-5.23	115.21	121.28
1	AF	89	GLU	CA-C-N	5.23	127.72	120.29
1	AF	89	GLU	C-N-CA	5.23	127.72	120.29
1	CF	83	ARG	CA-C-O	-5.23	114.57	120.32
1	CN	83	ARG	N-CA-C	-5.23	99.99	108.52
1	HN	53	GLU	CA-C-O	-5.23	116.12	121.87
1	OM	21	ILE	N-CA-C	-5.23	105.28	110.62
1	AY	89	GLU	CA-C-N	5.23	127.72	120.29
1	AY	89	GLU	C-N-CA	5.23	127.72	120.29
1	AZ	89	GLU	CA-C-N	5.23	127.72	120.29
1	AZ	89	GLU	C-N-CA	5.23	127.72	120.29
1	GV	23	ALA	CA-C-O	-5.23	115.33	120.82
1	OV	21	ILE	N-CA-C	-5.23	105.28	110.62
3	Xd	722	GLY	N-CA-C	5.23	119.01	112.73
1	Fu	78	ALA	CA-C-O	-5.23	114.68	120.33
1	Fw	78	ALA	CA-C-O	-5.23	114.68	120.33
1	Gk	23	ALA	CA-C-O	-5.23	115.33	120.82
1	Bj	49	LEU	CA-C-O	-5.23	115.05	120.70
1	Hr	53	GLU	CA-C-O	-5.23	116.12	121.87
3	Xm	650	GLY	N-CA-C	-5.23	103.30	112.77
1	O9	21	ILE	N-CA-C	-5.23	105.29	110.62
1	Cu	83	ARG	CA-C-O	-5.23	114.57	120.32
1	Gk	73	ASP	N-CA-C	-5.23	106.90	113.28
1	H6	53	GLU	CA-C-O	-5.23	116.12	121.87
1	O7	21	ILE	N-CA-C	-5.23	105.29	110.62
1	OT	21	ILE	N-CA-C	-5.23	105.29	110.62
1	Ci	83	ARG	N-CA-C	-5.23	100.00	108.52
1	LW	10	GLY	CA-C-O	-5.23	116.86	120.94
1	Ba	49	LEU	CA-C-O	-5.23	115.05	120.70
1	Cb	49	LEU	CA-C-O	-5.23	114.52	120.32
1	Cl	83	ARG	CA-C-O	-5.23	114.57	120.32
1	CD	83	ARG	CA-C-O	-5.23	114.57	120.32
1	C1	83	ARG	CA-C-O	-5.23	114.57	120.32
1	BQ	49	LEU	CA-C-O	-5.23	115.06	120.70
1	CS	83	ARG	CA-C-O	-5.23	114.57	120.32
1	NR	46	VAL	CA-C-O	-5.23	115.22	121.28
1	BY	49	LEU	CA-C-O	-5.23	115.06	120.70
1	OZ	21	ILE	N-CA-C	-5.23	105.29	110.62
1	BU	49	LEU	CA-C-O	-5.23	115.06	120.70
1	Ga	23	ALA	CA-C-O	-5.23	115.33	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Au	89	GLU	CA-C-N	5.23	127.71	120.29
1	Au	89	GLU	C-N-CA	5.23	127.71	120.29
1	Cx	83	ARG	N-CA-C	-5.23	100.00	108.52
1	Bm	49	LEU	CA-C-O	-5.23	115.06	120.70
1	Gr	73	ASP	N-CA-C	-5.23	106.91	113.28
1	DS	53	GLU	N-CA-C	-5.23	103.98	110.41
1	A9	89	GLU	CA-C-N	5.22	127.71	120.29
1	A9	89	GLU	C-N-CA	5.22	127.71	120.29
1	C0	83	ARG	CA-C-O	-5.22	114.57	120.32
1	AO	89	GLU	CA-C-N	5.22	127.71	120.29
1	AO	89	GLU	C-N-CA	5.22	127.71	120.29
1	HL	53	GLU	CA-C-O	-5.22	116.12	121.87
3	Yg	831	SER	CA-C-O	-5.22	115.84	121.38
1	BZ	49	LEU	CA-C-O	-5.22	115.06	120.70
1	Ca	83	ARG	N-CA-C	-5.22	100.00	108.52
1	Bx	49	LEU	CA-C-O	-5.22	115.06	120.70
1	Hn	53	GLU	CA-C-O	-5.22	116.12	121.87
1	Ok	50	VAL	CA-C-O	-5.22	115.22	121.28
3	Yo	831	SER	CA-C-O	-5.22	115.84	121.38
1	Oq	21	ILE	N-CA-C	-5.22	105.29	110.62
1	DS	57	VAL	N-CA-C	-5.22	105.41	110.42
1	G1	23	ALA	CA-C-O	-5.22	115.34	120.82
1	O2	21	ILE	N-CA-C	-5.22	105.29	110.62
1	CG	83	ARG	CA-C-O	-5.22	114.58	120.32
3	XF	621	VAL	N-CA-C	-5.22	107.66	112.83
1	Ne	46	VAL	CA-C-O	-5.22	115.22	121.28
1	Of	21	ILE	N-CA-C	-5.22	105.29	110.62
1	BX	49	LEU	CA-C-O	-5.22	115.06	120.70
1	CV	83	ARG	CA-C-O	-5.22	114.58	120.32
1	Nt	46	VAL	CA-C-O	-5.22	115.22	121.28
1	Ov	21	ILE	N-CA-C	-5.22	105.29	110.62
1	Ol	21	ILE	N-CA-C	-5.22	105.29	110.62
1	Cs	49	LEU	CA-C-O	-5.22	114.52	120.32
1	B5	49	LEU	CA-C-O	-5.22	115.06	120.70
1	C9	83	ARG	CA-C-O	-5.22	114.58	120.32
1	N7	46	VAL	CA-C-O	-5.22	115.22	121.28
3	Xi	725	THR	CA-C-O	-5.22	115.28	121.60
1	FB	78	ALA	CA-C-O	-5.22	114.69	120.33
1	NC	46	VAL	CA-C-O	-5.22	115.22	121.28
1	OJ	21	ILE	N-CA-C	-5.22	105.30	110.62
3	YL	711	GLY	N-CA-C	5.22	118.99	112.73
3	YO	723	LEU	N-CA-C	-5.22	106.15	112.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Gg	73	ASP	N-CA-C	-5.22	106.91	113.28
1	NW	46	VAL	CA-C-O	-5.22	115.22	121.28
1	CU	83	ARG	N-CA-C	-5.22	100.01	108.52
1	Ga	50	VAL	CA-C-O	-5.22	116.19	121.67
1	Oo	21	ILE	N-CA-C	-5.22	105.30	110.62
1	C5	83	ARG	CA-C-O	-5.22	114.58	120.32
1	BI	49	LEU	CA-C-O	-5.22	115.06	120.70
1	BK	49	LEU	CA-C-O	-5.22	115.06	120.70
1	CG	83	ARG	N-CA-C	-5.22	100.02	108.52
1	NH	46	VAL	CA-C-O	-5.22	115.23	121.28
1	CL	83	ARG	N-CA-C	-5.22	100.01	108.52
1	Oc	21	ILE	N-CA-C	-5.22	105.30	110.62
1	Ow	45	TYR	CA-C-O	-5.22	114.72	120.36
1	Hn	61	VAL	N-CA-C	-5.22	105.45	110.72
1	GD	23	ALA	CA-C-O	-5.22	115.34	120.82
1	ND	46	VAL	CA-C-O	-5.22	115.23	121.28
1	B1	49	LEU	CA-C-O	-5.22	115.07	120.70
1	N2	46	VAL	CA-C-O	-5.22	115.23	121.28
1	B7	49	LEU	CA-C-O	-5.22	115.07	120.70
1	CS	83	ARG	N-CA-C	-5.22	100.02	108.52
1	BM	49	LEU	CA-C-O	-5.22	115.07	120.70
1	CM	83	ARG	N-CA-C	-5.22	100.02	108.52
1	GN	23	ALA	CA-C-O	-5.22	115.34	120.82
1	Bb	49	LEU	CA-C-O	-5.22	115.07	120.70
1	Op	21	ILE	N-CA-C	-5.22	105.30	110.62
3	Ys	723	LEU	N-CA-C	-5.22	106.15	112.88
1	C3	83	ARG	CA-C-O	-5.21	114.58	120.32
1	C6	83	ARG	N-CA-C	-5.21	100.02	108.52
3	X9	722	GLY	N-CA-C	5.21	118.99	112.73
1	CK	49	LEU	CA-C-O	-5.21	114.53	120.32
1	BF	49	LEU	CA-C-O	-5.21	115.07	120.70
1	CM	49	LEU	CA-C-O	-5.21	114.53	120.32
1	BV	49	LEU	CA-C-O	-5.21	115.07	120.70
1	Oa	21	ILE	N-CA-C	-5.21	105.30	110.62
1	CL	49	LEU	CA-C-O	-5.21	114.53	120.32
1	NM	46	VAL	CA-C-O	-5.21	115.23	121.28
1	LC	10	GLY	CA-C-O	-5.21	116.88	120.94
1	C0	49	LEU	CA-C-O	-5.21	114.53	120.32
1	O6	21	ILE	N-CA-C	-5.21	105.31	110.62
1	NJ	46	VAL	CA-C-O	-5.21	115.23	121.28
1	CO	83	ARG	N-CA-C	-5.21	100.03	108.52
1	OL	21	ILE	N-CA-C	-5.21	105.31	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	XO	722	GLY	N-CA-C	5.21	118.98	112.73
1	AV	89	GLU	CA-C-N	5.21	127.69	120.29
1	AV	89	GLU	C-N-CA	5.21	127.69	120.29
1	CU	49	LEU	CA-C-O	-5.21	114.53	120.32
1	Hd	53	GLU	CA-C-O	-5.21	116.14	121.87
1	Hj	53	GLU	CA-C-O	-5.21	116.14	121.87
1	OC	21	ILE	N-CA-C	-5.21	105.31	110.62
1	OE	21	ILE	N-CA-C	-5.21	105.31	110.62
1	G4	23	ALA	CA-C-O	-5.21	115.35	120.82
1	O5	21	ILE	N-CA-C	-5.21	105.31	110.62
1	CT	83	ARG	N-CA-C	-5.21	100.03	108.52
1	Gh	23	ALA	CA-C-O	-5.21	115.35	120.82
1	Oi	21	ILE	N-CA-C	-5.21	105.31	110.62
1	GX	23	ALA	CA-C-O	-5.21	115.35	120.82
1	Ak	89	GLU	CA-C-N	5.21	127.69	120.29
1	Ak	89	GLU	C-N-CA	5.21	127.69	120.29
1	Gm	23	ALA	CA-C-O	-5.21	115.35	120.82
3	Y4	831	SER	CA-C-O	-5.21	115.86	121.38
1	C8	83	ARG	N-CA-C	-5.21	100.03	108.52
1	GJ	50	VAL	CA-C-O	-5.21	116.20	121.67
1	CX	83	ARG	N-CA-C	-5.21	100.03	108.52
3	XU	621	VAL	N-CA-C	-5.21	107.67	112.83
1	Gn	23	ALA	CA-C-O	-5.21	115.35	120.82
1	As	89	GLU	CA-C-N	5.21	127.69	120.29
1	As	89	GLU	C-N-CA	5.21	127.69	120.29
3	Xj	621	VAL	N-CA-C	-5.21	107.67	112.83
1	N4	46	VAL	CA-C-O	-5.21	115.24	121.28
3	Y2	831	SER	CA-C-O	-5.21	115.86	121.38
3	Y5	831	SER	CA-C-O	-5.21	115.86	121.38
1	AS	89	GLU	CA-C-N	5.21	127.68	120.29
1	AS	89	GLU	C-N-CA	5.21	127.68	120.29
3	YH	831	SER	CA-C-O	-5.21	115.86	121.38
1	Nh	46	VAL	CA-C-O	-5.21	115.24	121.28
1	Aa	89	GLU	CA-C-N	5.21	127.68	120.29
1	Aa	89	GLU	C-N-CA	5.21	127.68	120.29
1	Cv	83	ARG	N-CA-C	-5.21	100.03	108.52
1	Cm	83	ARG	N-CA-C	-5.21	100.03	108.52
1	Cr	83	ARG	N-CA-C	-5.21	100.03	108.52
1	Cs	83	ARG	CA-C-O	-5.21	114.59	120.32
1	Hs	53	GLU	CA-C-O	-5.21	116.14	121.87
1	Ch	83	ARG	N-CA-C	-5.21	100.04	108.52
1	Cc	83	ARG	N-CA-C	-5.21	100.04	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Cw	83	ARG	N-CA-C	-5.21	100.04	108.52
3	Yv	801	SER	N-CA-C	-5.21	102.07	110.14
1	Gs	50	VAL	CA-C-O	-5.21	116.20	121.67
1	AB	89	GLU	CA-C-N	5.20	127.68	120.29
1	AB	89	GLU	C-N-CA	5.20	127.68	120.29
1	CD	83	ARG	N-CA-C	-5.20	100.04	108.52
1	C4	83	ARG	N-CA-C	-5.20	100.04	108.52
1	O1	21	ILE	N-CA-C	-5.20	105.31	110.62
1	AQ	89	GLU	CA-C-N	5.20	127.68	120.29
1	AQ	89	GLU	C-N-CA	5.20	127.68	120.29
1	GP	23	ALA	CA-C-O	-5.20	115.36	120.82
1	CJ	83	ARG	N-CA-C	-5.20	100.04	108.52
1	FG	14	THR	CA-C-O	-5.20	115.68	121.51
1	GK	23	ALA	CA-C-O	-5.20	115.36	120.82
1	CZ	49	LEU	CA-C-O	-5.20	114.54	120.32
1	FV	14	THR	CA-C-O	-5.20	115.68	121.51
1	FX	14	THR	CA-C-O	-5.20	115.68	121.51
1	HV	53	GLU	CA-C-O	-5.20	116.15	121.87
1	Ad	89	GLU	CA-C-N	5.20	127.68	120.29
1	Ad	89	GLU	C-N-CA	5.20	127.68	120.29
1	Ct	49	LEU	CA-C-O	-5.20	114.55	120.32
3	Yv	831	SER	CA-C-O	-5.20	115.86	121.38
3	Xo	715	GLY	N-CA-C	-5.20	101.72	112.34
1	FY	14	THR	CA-C-O	-5.20	115.68	121.51
1	G3	23	ALA	CA-C-O	-5.20	115.36	120.82
1	N3	46	VAL	CA-C-O	-5.20	115.25	121.28
1	BH	49	LEU	CA-C-O	-5.20	115.08	120.70
1	GI	23	ALA	CA-C-O	-5.20	115.36	120.82
3	YY	831	SER	CA-C-O	-5.20	115.86	121.38
1	Gp	50	VAL	CA-C-O	-5.20	116.21	121.67
1	NI	46	VAL	CA-C-O	-5.20	115.25	121.28
1	FF	18	VAL	CA-C-N	-5.20	113.68	119.19
1	FF	18	VAL	C-N-CA	-5.20	113.68	119.19
1	CA	83	ARG	N-CA-C	-5.20	100.04	108.52
3	Y1	831	SER	CA-C-O	-5.20	115.87	121.38
1	H0	53	GLU	CA-C-O	-5.20	116.15	121.87
1	AH	89	GLU	CA-C-N	5.20	127.67	120.29
1	AH	89	GLU	C-N-CA	5.20	127.67	120.29
1	AK	89	GLU	CA-C-N	5.20	127.67	120.29
1	AK	89	GLU	C-N-CA	5.20	127.67	120.29
1	CF	83	ARG	N-CA-C	-5.20	100.04	108.52
1	HF	53	GLU	CA-C-O	-5.20	116.15	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Gw	50	VAL	CA-C-O	-5.20	116.21	121.67
1	GD	50	VAL	CA-C-O	-5.20	116.21	121.67
1	N8	46	VAL	CA-C-O	-5.20	115.25	121.28
3	Y6	831	SER	CA-C-O	-5.20	115.87	121.38
1	GS	50	VAL	CA-C-O	-5.20	116.21	121.67
1	CF	49	LEU	CA-C-O	-5.20	114.55	120.32
1	NN	46	VAL	CA-C-O	-5.20	115.25	121.28
1	OO	21	ILE	N-CA-C	-5.20	105.32	110.62
3	YL	831	SER	CA-C-O	-5.20	115.87	121.38
1	Gh	50	VAL	CA-C-O	-5.20	116.21	121.67
1	Ng	46	VAL	CA-C-O	-5.20	115.25	121.28
1	Cm	83	ARG	CA-C-O	-5.20	114.60	120.32
1	Co	83	ARG	CA-C-O	-5.20	114.60	120.32
3	YE	723	LEU	N-CA-C	-5.20	106.62	113.17
1	L8	10	GLY	CA-C-O	-5.20	116.89	120.94
1	CK	83	ARG	N-CA-C	-5.20	100.05	108.52
3	Yx	723	LEU	N-CA-C	-5.20	106.62	113.17
3	Y3	831	SER	CA-C-O	-5.20	115.87	121.38
1	NA	46	VAL	CA-C-O	-5.20	115.25	121.28
1	C3	83	ARG	N-CA-C	-5.20	100.05	108.52
1	C0	83	ARG	N-CA-C	-5.20	100.05	108.52
3	Y0	831	SER	CA-C-O	-5.20	115.87	121.38
1	FQ	78	ALA	CA-C-O	-5.20	114.72	120.33
1	NP	46	VAL	CA-C-O	-5.20	115.25	121.28
3	YP	831	SER	CA-C-O	-5.20	115.87	121.38
1	CI	83	ARG	N-CA-C	-5.20	100.05	108.52
1	CK	83	ARG	CA-C-O	-5.20	114.61	120.32
1	Be	49	LEU	CA-C-O	-5.20	115.09	120.70
1	CZ	83	ARG	CA-C-O	-5.20	114.61	120.32
3	XZ	715	GLY	N-CA-C	-5.20	101.74	112.34
1	Cj	83	ARG	N-CA-C	-5.20	100.05	108.52
1	BA	49	LEU	CA-C-O	-5.19	115.09	120.70
3	Y6	711	GLY	N-CA-C	5.19	118.96	112.73
1	BP	49	LEU	CA-C-O	-5.19	115.09	120.70
1	Og	21	ILE	N-CA-C	-5.19	105.32	110.62
1	CX	83	ARG	CA-C-O	-5.19	114.61	120.32
1	Fa	14	THR	CA-C-O	-5.19	115.69	121.51
1	Nc	46	VAL	CA-C-O	-5.19	115.25	121.28
1	Cu	49	LEU	CA-C-O	-5.19	114.56	120.32
1	Hu	53	GLU	CA-C-O	-5.19	116.16	121.87
1	CE	83	ARG	N-CA-C	-5.19	100.06	108.52
1	GC	7	ILE	N-CA-C	-5.19	107.24	112.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C1	83	ARG	N-CA-C	-5.19	100.06	108.52
1	C9	83	ARG	N-CA-C	-5.19	100.06	108.52
3	X0	621	VAL	N-CA-C	-5.19	107.69	112.83
1	BR	49	LEU	CA-C-O	-5.19	115.09	120.70
1	GR	7	ILE	N-CA-C	-5.19	107.24	112.17
1	GG	23	ALA	CA-C-O	-5.19	115.37	120.82
1	Cf	49	LEU	CA-C-O	-5.19	114.56	120.32
1	Ge	50	VAL	CA-C-O	-5.19	116.22	121.67
1	Lg	10	GLY	CA-C-O	-5.19	116.89	120.94
1	CY	83	ARG	N-CA-C	-5.19	100.06	108.52
1	Nw	46	VAL	CA-C-O	-5.19	115.26	121.28
3	Yw	831	SER	CA-C-O	-5.19	115.88	121.38
3	Yx	831	SER	CA-C-O	-5.19	115.88	121.38
1	Al	89	GLU	CA-C-N	5.19	127.66	120.29
1	Al	89	GLU	C-N-CA	5.19	127.66	120.29
1	An	89	GLU	CA-C-N	5.19	127.66	120.29
1	An	89	GLU	C-N-CA	5.19	127.66	120.29
1	Bo	49	LEU	CA-C-O	-5.19	115.09	120.70
1	Cn	83	ARG	N-CA-C	-5.19	100.06	108.52
1	Cp	83	ARG	N-CA-C	-5.19	100.06	108.52
1	AD	89	GLU	CA-C-N	5.19	127.66	120.29
1	AD	89	GLU	C-N-CA	5.19	127.66	120.29
1	BE	49	LEU	CA-C-O	-5.19	115.09	120.70
1	GE	23	ALA	CA-C-O	-5.19	115.37	120.82
1	C5	83	ARG	N-CA-C	-5.19	100.06	108.52
1	B0	49	LEU	CA-C-O	-5.19	115.09	120.70
1	CQ	83	ARG	N-CA-C	-5.19	100.06	108.52
1	GT	23	ALA	CA-C-O	-5.19	115.37	120.82
3	YJ	831	SER	CA-C-O	-5.19	115.88	121.38
1	CN	49	LEU	CA-C-O	-5.19	114.56	120.32
1	CO	83	ARG	CA-C-O	-5.19	114.61	120.32
1	De	8	ALA	CA-C-O	-5.19	115.85	121.87
1	CV	49	LEU	CA-C-O	-5.19	114.56	120.32
1	GY	50	VAL	CA-C-O	-5.19	116.22	121.67
1	OY	21	ILE	N-CA-C	-5.19	105.33	110.62
1	Ab	89	GLU	CA-C-N	5.19	127.66	120.29
1	Ab	89	GLU	C-N-CA	5.19	127.66	120.29
1	Lc	10	GLY	CA-C-O	-5.19	116.89	120.94
1	Aw	89	GLU	CA-C-N	5.19	127.66	120.29
1	Aw	89	GLU	C-N-CA	5.19	127.66	120.29
1	Bt	49	LEU	CA-C-O	-5.19	115.09	120.70
1	Ou	21	ILE	N-CA-C	-5.19	105.33	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Yu	831	SER	CA-C-O	-5.19	115.88	121.38
1	On	21	ILE	N-CA-C	-5.19	105.33	110.62
1	Lr	10	GLY	CA-C-O	-5.19	116.89	120.94
1	CB	83	ARG	N-CA-C	-5.19	100.06	108.52
1	CC	83	ARG	N-CA-C	-5.19	100.06	108.52
1	GA	23	ALA	CA-C-O	-5.19	115.37	120.82
1	B3	49	LEU	CA-C-O	-5.19	115.09	120.70
1	C1	49	LEU	CA-C-O	-5.19	114.56	120.32
3	XK	715	GLY	N-CA-C	-5.19	101.75	112.34
1	Ce	83	ARG	N-CA-C	-5.19	100.06	108.52
1	Lf	10	GLY	CA-C-O	-5.19	116.89	120.94
1	Ot	21	ILE	N-CA-C	-5.19	105.33	110.62
1	HD	53	GLU	CA-C-O	-5.19	116.16	121.87
3	YC	801	SER	N-CA-C	-5.19	102.10	110.14
1	A1	89	GLU	CA-C-N	5.19	127.66	120.29
1	A1	89	GLU	C-N-CA	5.19	127.66	120.29
1	AG	89	GLU	CA-C-N	5.19	127.66	120.29
1	AG	89	GLU	C-N-CA	5.19	127.66	120.29
1	AJ	89	GLU	CA-C-N	5.19	127.66	120.29
1	AJ	89	GLU	C-N-CA	5.19	127.66	120.29
3	Yi	723	LEU	N-CA-C	-5.19	106.63	113.17
1	Gc	23	ALA	CA-C-O	-5.19	115.37	120.82
3	YU	831	SER	CA-C-O	-5.19	115.88	121.38
1	Im	80	ILE	CA-C-O	-5.19	114.98	120.48
1	EI	95	ALA	CA-C-N	-5.19	114.57	119.76
1	EI	95	ALA	C-N-CA	-5.19	114.57	119.76
1	CC	83	ARG	CA-C-O	-5.19	114.62	120.32
1	GC	23	ALA	CA-C-O	-5.19	115.38	120.82
1	C7	83	ARG	N-CA-C	-5.19	100.07	108.52
1	CR	83	ARG	CA-C-O	-5.19	114.62	120.32
1	GR	23	ALA	CA-C-O	-5.19	115.38	120.82
1	GL	23	ALA	CA-C-O	-5.19	115.37	120.82
1	C2	83	ARG	N-CA-C	-5.18	100.07	108.52
1	CR	83	ARG	N-CA-C	-5.18	100.07	108.52
1	OR	21	ILE	N-CA-C	-5.18	105.33	110.62
1	CH	83	ARG	N-CA-C	-5.18	100.07	108.52
1	Bn	49	LEU	CA-C-O	-5.18	115.10	120.70
1	Cl	83	ARG	N-CA-C	-5.18	100.07	108.52
1	Ar	89	GLU	CA-C-N	5.18	127.65	120.29
1	Ar	89	GLU	C-N-CA	5.18	127.65	120.29
1	CE	49	LEU	CA-C-O	-5.18	114.57	120.32
1	CE	83	ARG	CA-C-O	-5.18	114.62	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CT	83	ARG	CA-C-O	-5.18	114.62	120.32
1	Cu	83	ARG	N-CA-C	-5.18	100.07	108.52
1	Fp	14	THR	CA-C-O	-5.18	115.71	121.51
1	DH	18	VAL	CA-C-N	-5.18	113.30	119.05
1	DH	18	VAL	C-N-CA	-5.18	113.30	119.05
1	A3	89	GLU	CA-C-N	5.18	127.65	120.29
1	A3	89	GLU	C-N-CA	5.18	127.65	120.29
1	C3	49	LEU	CA-C-O	-5.18	114.57	120.32
1	C6	49	LEU	CA-C-O	-5.18	114.57	120.32
1	G8	23	ALA	CA-C-O	-5.18	115.38	120.82
1	O0	21	ILE	N-CA-C	-5.18	105.34	110.62
3	Y9	723	LEU	N-CA-C	-5.18	106.20	112.88
1	CP	83	ARG	N-CA-C	-5.18	100.08	108.52
1	CI	49	LEU	CA-C-O	-5.18	114.57	120.32
1	Cg	49	LEU	CA-C-O	-5.18	114.57	120.32
3	Yg	801	SER	N-CA-C	-5.18	102.11	110.14
1	Cb	83	ARG	N-CA-C	-5.18	100.08	108.52
1	OU	21	ILE	N-CA-C	-5.18	105.33	110.62
1	Gw	7	ILE	N-CA-C	-5.18	107.25	112.17
1	Gw	23	ALA	CA-C-O	-5.18	115.38	120.82
1	Lu	10	GLY	CA-C-O	-5.18	116.90	120.94
1	Fk	14	THR	CA-C-O	-5.18	115.71	121.51
1	Cq	83	ARG	N-CA-C	-5.18	100.08	108.52
1	AA	89	GLU	CA-C-N	5.18	127.64	120.29
1	AA	89	GLU	C-N-CA	5.18	127.64	120.29
1	OA	21	ILE	N-CA-C	-5.18	105.34	110.62
1	A2	89	GLU	CA-C-N	5.18	127.65	120.29
1	A2	89	GLU	C-N-CA	5.18	127.65	120.29
1	AP	89	GLU	CA-C-N	5.18	127.64	120.29
1	AP	89	GLU	C-N-CA	5.18	127.64	120.29
1	DP	8	ALA	CA-C-O	-5.18	115.86	121.87
1	Cg	83	ARG	N-CA-C	-5.18	100.08	108.52
1	Ci	49	LEU	CA-C-O	-5.18	114.57	120.32
1	Gg	7	ILE	N-CA-C	-5.18	107.25	112.17
1	AW	89	GLU	CA-C-N	5.18	127.65	120.29
1	AW	89	GLU	C-N-CA	5.18	127.65	120.29
1	CV	83	ARG	N-CA-C	-5.18	100.08	108.52
1	Ct	83	ARG	N-CA-C	-5.18	100.08	108.52
1	Cx	49	LEU	CA-C-O	-5.18	114.57	120.32
1	Nv	46	VAL	CA-C-O	-5.18	115.27	121.28
3	Yn	831	SER	CA-C-O	-5.18	115.89	121.38
1	Gs	23	ALA	CA-C-O	-5.18	115.38	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	DD	42	GLY	N-CA-C	-5.18	106.15	112.68
1	C5	49	LEU	CA-C-O	-5.18	114.57	120.32
1	Gh	7	ILE	N-CA-C	-5.18	107.25	112.17
3	Ye	831	SER	CA-C-O	-5.18	115.89	121.38
1	Gp	23	ALA	CA-C-O	-5.18	115.38	120.82
1	BC	49	LEU	CA-C-O	-5.18	115.11	120.70
1	A4	89	GLU	CA-C-N	5.18	127.64	120.29
1	A4	89	GLU	C-N-CA	5.18	127.64	120.29
1	A6	89	GLU	CA-C-N	5.18	127.64	120.29
1	A6	89	GLU	C-N-CA	5.18	127.64	120.29
1	A7	89	GLU	CA-C-N	5.18	127.64	120.29
1	A7	89	GLU	C-N-CA	5.18	127.64	120.29
1	OP	21	ILE	N-CA-C	-5.18	105.34	110.62
1	AM	89	GLU	CA-C-N	5.18	127.64	120.29
1	AM	89	GLU	C-N-CA	5.18	127.64	120.29
1	AN	89	GLU	CA-C-N	5.18	127.64	120.29
1	AN	89	GLU	C-N-CA	5.18	127.64	120.29
1	GO	23	ALA	CA-C-O	-5.18	115.39	120.82
1	CZ	83	ARG	N-CA-C	-5.18	100.08	108.52
1	NX	46	VAL	CA-C-O	-5.18	115.28	121.28
1	Dt	8	ALA	CA-C-O	-5.18	115.87	121.87
1	Gt	23	ALA	CA-C-O	-5.18	115.38	120.82
1	Gx	7	ILE	N-CA-C	-5.18	107.25	112.17
3	Yx	801	SER	N-CA-C	-5.18	102.12	110.14
1	Co	83	ARG	N-CA-C	-5.18	100.08	108.52
1	Bq	49	LEU	CA-C-O	-5.18	115.11	120.70
1	Nm	46	VAL	CA-C-O	-5.18	115.28	121.28
3	YD	831	SER	CA-C-O	-5.17	115.89	121.38
3	YT	723	LEU	N-CA-C	-5.17	106.65	113.17
1	Ag	89	GLU	CA-C-N	5.17	127.64	120.29
1	Ag	89	GLU	C-N-CA	5.17	127.64	120.29
1	Ah	89	GLU	CA-C-N	5.17	127.64	120.29
1	Ah	89	GLU	C-N-CA	5.17	127.64	120.29
3	YV	831	SER	CA-C-O	-5.17	115.90	121.38
3	Yp	801	SER	N-CA-C	-5.17	102.12	110.14
3	X5	715	GLY	N-CA-C	-5.17	101.78	112.34
1	AD	69	GLU	CA-C-O	-5.17	114.41	120.20
1	G5	23	ALA	CA-C-O	-5.17	115.39	120.82
1	CI	83	ARG	CA-C-O	-5.17	114.63	120.32
1	BN	49	LEU	CA-C-O	-5.17	115.11	120.70
1	Cf	83	ARG	N-CA-C	-5.17	100.09	108.52
1	CW	83	ARG	N-CA-C	-5.17	100.09	108.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Yd	831	SER	CA-C-O	-5.17	115.90	121.38
1	F6	14	THR	CA-C-O	-5.17	115.72	121.51
1	OG	21	ILE	N-CA-C	-5.17	105.34	110.62
3	YK	801	SER	N-CA-C	-5.17	102.12	110.14
3	YF	831	SER	CA-C-O	-5.17	115.90	121.38
1	Ce	49	LEU	CA-C-O	-5.17	114.58	120.32
1	Ck	83	ARG	N-CA-C	-5.17	100.09	108.52
1	Go	7	ILE	N-CA-C	-5.17	107.26	112.17
2	Po	75	GLY	CA-C-O	-5.17	116.58	121.60
1	Gr	23	ALA	CA-C-O	-5.17	115.39	120.82
1	A8	89	GLU	CA-C-N	5.17	127.63	120.29
1	A8	89	GLU	C-N-CA	5.17	127.63	120.29
1	Gi	7	ILE	N-CA-C	-5.17	107.26	112.17
1	Ca	49	LEU	CA-C-O	-5.17	114.58	120.32
3	Ys	831	SER	CA-C-O	-5.17	115.90	121.38
1	GA	50	VAL	CA-C-O	-5.17	116.24	121.67
3	YR	801	SER	N-CA-C	-5.17	102.13	110.14
3	YK	831	SER	CA-C-O	-5.17	115.90	121.38
3	Yd	723	LEU	N-CA-C	-5.17	106.21	112.88
1	Cv	83	ARG	CA-C-O	-5.17	114.64	120.32
1	Nr	46	VAL	CA-C-O	-5.17	115.28	121.28
1	Or	21	ILE	N-CA-C	-5.17	105.35	110.62
1	GP	50	VAL	CA-C-O	-5.17	116.25	121.67
1	BG	49	LEU	CA-C-O	-5.17	115.12	120.70
3	Yi	831	SER	CA-C-O	-5.17	115.90	121.38
1	HU	53	GLU	CA-C-O	-5.17	116.19	121.87
3	Yc	831	SER	CA-C-O	-5.17	115.90	121.38
3	Yu	801	SER	N-CA-C	-5.17	102.13	110.14
3	Yw	801	SER	N-CA-C	-5.17	102.13	110.14
1	DH	76	VAL	CB-CA-C	-5.17	105.25	112.02
1	Cs	83	ARG	N-CA-C	-5.17	100.10	108.52
3	XI	631	GLU	N-CA-C	5.17	118.04	111.69
1	CA	49	LEU	CA-C-O	-5.16	114.59	120.32
1	DA	8	ALA	CA-C-O	-5.16	115.88	121.87
1	C8	49	LEU	CA-C-O	-5.16	114.59	120.32
1	CP	49	LEU	CA-C-O	-5.16	114.59	120.32
1	Cd	83	ARG	N-CA-C	-5.16	100.10	108.52
1	Bv	49	LEU	CA-C-O	-5.16	115.12	120.70
1	DS	77	ALA	N-CA-C	5.16	117.58	108.75
3	Y6	801	SER	N-CA-C	-5.16	102.14	110.14
3	YL	801	SER	N-CA-C	-5.16	102.14	110.14
1	Av	89	GLU	CA-C-N	5.16	127.62	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Av	89	GLU	C-N-CA	5.16	127.62	120.29
1	Aw	69	GLU	CA-C-O	-5.16	114.42	120.20
1	Iv	80	ILE	CA-C-O	-5.16	115.01	120.48
2	Pk	54	GLY	N-CA-C	5.16	119.05	112.13
1	DM	8	ALA	CA-C-O	-5.16	115.88	121.87
1	CC	49	LEU	CA-C-O	-5.16	114.59	120.32
3	X0	687	THR	N-CA-C	5.16	120.97	114.31
1	Ff	78	ALA	CA-C-O	-5.16	114.76	120.33
1	Cv	49	LEU	CA-C-O	-5.16	114.59	120.32
3	Yt	831	SER	CA-C-O	-5.16	115.91	121.38
1	Cp	49	LEU	CA-C-O	-5.16	114.59	120.32
3	Yj	831	SER	CA-C-O	-5.16	115.91	121.38
1	Dh	77	ALA	N-CA-C	5.16	116.37	108.42
1	G9	50	VAL	CA-C-O	-5.16	116.25	121.67
3	Y7	801	SER	N-CA-C	-5.16	102.14	110.14
1	BT	49	LEU	CA-C-O	-5.16	115.13	120.70
1	GK	7	ILE	N-CA-C	-5.16	107.27	112.17
1	GO	50	VAL	CA-C-O	-5.16	116.25	121.67
3	YM	801	SER	N-CA-C	-5.16	102.14	110.14
1	Cc	49	LEU	CA-C-O	-5.16	114.59	120.32
3	Xx	630	ASN	N-CA-C	-5.16	107.01	113.72
1	Gm	7	ILE	N-CA-C	-5.16	107.27	112.17
1	Ae	89	GLU	CA-C-N	5.16	127.61	120.29
1	Ae	89	GLU	C-N-CA	5.16	127.61	120.29
1	BW	21	ILE	CA-C-O	-5.16	115.59	120.95
1	Aq	89	GLU	CA-C-N	5.16	127.61	120.29
1	Aq	89	GLU	C-N-CA	5.16	127.61	120.29
1	Cr	49	LEU	CA-C-O	-5.16	114.60	120.32
3	Y9	831	SER	CA-C-O	-5.16	115.92	121.38
3	YT	831	SER	CA-C-O	-5.16	115.92	121.38
3	YG	831	SER	CA-C-O	-5.16	115.92	121.38
1	Ah	69	GLU	CA-C-O	-5.16	114.43	120.20
1	Ge	23	ALA	CA-C-O	-5.16	115.41	120.82
3	Yh	831	SER	CA-C-O	-5.16	115.92	121.38
3	Yi	801	SER	N-CA-C	-5.16	102.15	110.14
1	AX	92	LEU	CA-C-N	-5.16	114.09	120.79
1	AX	92	LEU	C-N-CA	-5.16	114.09	120.79
3	Yk	831	SER	CA-C-O	-5.16	115.91	121.38
1	G3	7	ILE	N-CA-C	-5.15	107.27	112.17
1	G8	7	ILE	N-CA-C	-5.15	107.27	112.17
3	YT	801	SER	N-CA-C	-5.15	102.15	110.14
1	CG	49	LEU	CA-C-O	-5.15	114.60	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GX	7	ILE	N-CA-C	-5.15	107.27	112.17
3	YX	831	SER	CA-C-O	-5.15	115.92	121.38
1	Gc	7	ILE	N-CA-C	-5.15	107.27	112.17
1	Gd	23	ALA	CA-C-O	-5.15	115.41	120.82
3	Ym	831	SER	CA-C-O	-5.15	115.92	121.38
3	YS	831	SER	CA-C-O	-5.15	115.92	121.38
1	GZ	23	ALA	CA-C-O	-5.15	115.41	120.82
1	Dn	43	GLY	N-CA-C	-5.15	107.14	115.08
1	GE	7	ILE	N-CA-C	-5.15	107.28	112.17
3	YN	831	SER	CA-C-O	-5.15	115.92	121.38
1	Ag	69	GLU	CA-C-O	-5.15	114.43	120.20
1	Gi	23	ALA	CA-C-O	-5.15	115.41	120.82
1	Oe	21	ILE	N-CA-C	-5.15	105.37	110.62
1	Ac	89	GLU	CA-C-N	5.15	127.60	120.29
1	Ac	89	GLU	C-N-CA	5.15	127.60	120.29
1	Ck	49	LEU	CA-C-O	-5.15	114.60	120.32
3	Xn	621	VAL	N-CA-C	-5.15	105.39	111.00
3	Y5	801	SER	N-CA-C	-5.15	102.16	110.14
3	Yj	801	SER	N-CA-C	-5.15	102.16	110.14
1	LN	10	GLY	CA-C-O	-5.15	116.92	120.94
1	AC	89	GLU	CA-C-N	5.15	127.60	120.29
1	AC	89	GLU	C-N-CA	5.15	127.60	120.29
3	YA	801	SER	N-CA-C	-5.15	102.16	110.14
2	PP	26	VAL	N-CA-C	-5.15	102.94	109.58
3	Yf	801	SER	N-CA-C	-5.15	102.16	110.14
3	Yb	801	SER	N-CA-C	-5.15	102.16	110.14
3	Yt	801	SER	N-CA-C	-5.15	102.16	110.14
3	Yq	800	TRP	N-CA-C	5.15	119.40	113.38
1	EF	90	ASN	N-CA-C	-5.15	105.67	111.28
1	G5	7	ILE	N-CA-C	-5.15	107.28	112.17
1	At	89	GLU	CA-C-N	5.15	127.60	120.29
1	At	89	GLU	C-N-CA	5.15	127.60	120.29
3	Ym	800	TRP	N-CA-C	5.15	119.40	113.38
1	G9	23	ALA	CA-C-O	-5.14	115.42	120.82
1	AR	89	GLU	CA-C-N	5.14	127.59	120.29
1	AR	89	GLU	C-N-CA	5.14	127.59	120.29
1	GI	7	ILE	N-CA-C	-5.14	107.28	112.17
1	OF	21	ILE	N-CA-C	-5.14	105.37	110.62
1	Bg	49	LEU	CA-C-O	-5.14	115.14	120.70
1	Ci	83	ARG	CA-C-O	-5.14	114.66	120.32
2	Pi	26	VAL	N-CA-C	-5.14	102.94	109.58
3	Yh	801	SER	N-CA-C	-5.14	102.17	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	IX	80	ILE	CA-C-O	-5.14	115.03	120.48
2	PV	54	GLY	N-CA-C	5.14	119.02	112.13
1	Da	8	ALA	CA-C-O	-5.14	115.90	121.87
3	Yb	800	TRP	N-CA-C	5.14	119.40	113.38
1	Gv	7	ILE	N-CA-C	-5.14	107.28	112.17
1	Gv	23	ALA	CA-C-O	-5.14	115.42	120.82
2	Pk	75	GLY	CA-C-O	-5.14	116.61	121.60
1	Dp	8	ALA	CA-C-O	-5.14	115.90	121.87
1	D6	8	ALA	CA-C-O	-5.14	115.90	121.87
3	YA	831	SER	CA-C-O	-5.14	115.93	121.38
3	YB	801	SER	N-CA-C	-5.14	102.17	110.14
3	YQ	801	SER	N-CA-C	-5.14	102.17	110.14
1	LJ	60	ALA	CA-C-O	-5.14	115.10	120.55
3	YH	801	SER	N-CA-C	-5.14	102.17	110.14
1	Ic	80	ILE	CA-C-O	-5.14	115.03	120.48
2	Pb	26	VAL	N-CA-C	-5.14	102.95	109.58
1	B8	49	LEU	CA-C-O	-5.14	115.15	120.70
1	D8	8	ALA	CA-C-O	-5.14	115.91	121.87
1	DN	8	ALA	CA-C-O	-5.14	115.91	121.87
3	XF	687	THR	N-CA-C	5.14	120.94	114.31
1	CX	49	LEU	CA-C-O	-5.14	114.61	120.32
2	PY	26	VAL	N-CA-C	-5.14	102.95	109.58
1	Bc	49	LEU	CA-C-O	-5.14	115.15	120.70
1	Fx	14	THR	CA-C-O	-5.14	115.75	121.51
1	Cm	49	LEU	CA-C-O	-5.14	114.61	120.32
1	Br	49	LEU	CA-C-O	-5.14	115.15	120.70
1	D9	8	ALA	CA-C-O	-5.14	115.91	121.87
3	Y9	801	SER	N-CA-C	-5.14	102.17	110.14
1	GT	7	ILE	N-CA-C	-5.14	107.29	112.17
3	YI	801	SER	N-CA-C	-5.14	102.17	110.14
1	GN	7	ILE	N-CA-C	-5.14	107.29	112.17
3	Ya	801	SER	N-CA-C	-5.14	102.17	110.14
1	Ds	8	ALA	CA-C-O	-5.14	115.91	121.87
2	Pj	26	VAL	N-CA-C	-5.14	102.95	109.58
3	Y3	801	SER	N-CA-C	-5.14	102.17	110.14
1	CR	49	LEU	CA-C-O	-5.14	114.62	120.32
3	YG	801	SER	N-CA-C	-5.14	102.17	110.14
3	Xi	630	ASN	N-CA-C	-5.14	107.04	113.72
1	Do	8	ALA	CA-C-O	-5.14	115.91	121.87
1	Dn	61	VAL	N-CA-C	-5.14	105.38	110.62
1	Fq	14	THR	CA-C-O	-5.14	115.59	121.40
1	Dl	8	ALA	CA-C-O	-5.14	115.91	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	PA	26	VAL	N-CA-C	-5.14	102.95	109.58
1	I8	80	ILE	CA-C-O	-5.14	115.04	120.48
2	P0	26	VAL	N-CA-C	-5.14	102.95	109.58
2	PF	26	VAL	N-CA-C	-5.14	102.95	109.58
3	Yf	800	TRP	N-CA-C	5.14	119.39	113.38
1	GV	7	ILE	N-CA-C	-5.14	107.29	112.17
2	Pt	26	VAL	N-CA-C	-5.14	102.95	109.58
3	Yr	831	SER	CA-C-O	-5.14	115.94	121.38
3	Ys	801	SER	N-CA-C	-5.14	102.18	110.14
1	LM	60	ALA	CA-C-O	-5.14	115.11	120.55
1	DI	8	ALA	CA-C-O	-5.14	115.91	121.87
3	XE	630	ASN	N-CA-C	-5.13	107.04	113.72
3	XT	630	ASN	N-CA-C	-5.13	107.04	113.72
1	JO	8	ALA	CA-C-O	-5.13	115.91	121.87
2	PV	26	VAL	N-CA-C	-5.13	102.96	109.58
2	Px	26	VAL	N-CA-C	-5.13	102.96	109.58
2	Pk	26	VAL	N-CA-C	-5.13	102.96	109.58
3	Ym	801	SER	N-CA-C	-5.13	102.18	110.14
2	Pp	26	VAL	N-CA-C	-5.13	102.96	109.58
1	LD	60	ALA	CA-C-O	-5.13	115.11	120.55
3	YE	801	SER	N-CA-C	-5.13	102.18	110.14
2	PZ	75	GLY	CA-C-O	-5.13	116.62	121.60
2	Pa	26	VAL	N-CA-C	-5.13	102.96	109.58
3	YU	801	SER	N-CA-C	-5.13	102.18	110.14
3	XC	693	THR	CA-C-O	-5.13	115.37	120.66
3	YD	801	SER	N-CA-C	-5.13	102.19	110.14
3	Y2	801	SER	N-CA-C	-5.13	102.19	110.14
3	Y4	801	SER	N-CA-C	-5.13	102.19	110.14
3	Y7	800	TRP	N-CA-C	5.13	119.39	113.38
3	Y8	831	SER	CA-C-O	-5.13	115.94	121.38
2	PP	75	GLY	CA-C-O	-5.13	116.62	121.60
2	PT	26	VAL	N-CA-C	-5.13	102.96	109.58
3	YP	801	SER	N-CA-C	-5.13	102.19	110.14
3	YS	801	SER	N-CA-C	-5.13	102.19	110.14
3	YJ	801	SER	N-CA-C	-5.13	102.19	110.14
3	YM	800	TRP	N-CA-C	5.13	119.39	113.38
2	Pe	26	VAL	N-CA-C	-5.13	102.96	109.58
3	YW	801	SER	N-CA-C	-5.13	102.19	110.14
3	Yl	801	SER	N-CA-C	-5.13	102.19	110.14
1	Gr	7	ILE	N-CA-C	-5.13	107.30	112.17
1	Ei	53	GLU	CA-C-O	-5.13	115.76	121.81
3	Ye	801	SER	N-CA-C	-5.13	102.19	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GZ	7	ILE	N-CA-C	-5.13	107.30	112.17
1	Cx	83	ARG	CA-C-O	-5.13	114.68	120.32
1	Ex	53	GLU	CA-C-O	-5.13	115.76	121.81
1	DD	36	VAL	N-CA-C	5.13	115.85	110.62
2	PB	26	VAL	N-CA-C	-5.13	102.96	109.58
1	D3	8	ALA	CA-C-O	-5.13	115.92	121.87
2	P7	26	VAL	N-CA-C	-5.13	102.97	109.58
1	GS	23	ALA	CA-C-O	-5.13	115.44	120.82
2	PK	26	VAL	N-CA-C	-5.13	102.97	109.58
2	PM	26	VAL	N-CA-C	-5.13	102.97	109.58
1	Dg	8	ALA	CA-C-O	-5.13	115.92	121.87
1	Kh	36	VAL	N-CA-C	-5.13	106.91	113.22
2	PZ	26	VAL	N-CA-C	-5.13	102.96	109.58
3	YX	801	SER	N-CA-C	-5.13	102.19	110.14
3	XU	687	THR	N-CA-C	5.13	120.93	114.31
2	Pm	75	GLY	CA-C-O	-5.13	116.62	121.60
1	DE	8	ALA	CA-C-O	-5.13	115.92	121.87
3	YB	800	TRP	N-CA-C	5.13	119.38	113.38
1	Gg	23	ALA	CA-C-O	-5.13	115.44	120.82
3	YX	800	TRP	N-CA-C	5.13	119.38	113.38
3	Yo	801	SER	N-CA-C	-5.13	102.19	110.14
1	Gq	7	ILE	N-CA-C	-5.13	107.30	112.17
1	Kq	36	VAL	N-CA-C	-5.13	106.91	113.22
3	YE	831	SER	CA-C-O	-5.12	115.95	121.38
3	YL	800	TRP	N-CA-C	5.12	119.38	113.38
1	Ir	80	ILE	CA-C-O	-5.12	115.05	120.48
1	Dq	77	ALA	N-CA-C	5.12	116.63	108.79
3	Y1	801	SER	N-CA-C	-5.12	102.20	110.14
1	BH	21	ILE	CA-C-O	-5.12	115.62	120.95
1	FN	14	THR	CA-C-O	-5.12	115.77	121.51
3	YO	801	SER	N-CA-C	-5.12	102.20	110.14
1	Fb	14	THR	CA-C-O	-5.12	115.61	121.40
1	Gb	7	ILE	N-CA-C	-5.12	107.30	112.17
3	Yd	801	SER	N-CA-C	-5.12	102.20	110.14
1	Ho	40	PHE	CB-CA-C	5.12	118.49	110.19
1	Mo	45	TYR	CA-C-O	-5.12	114.80	120.38
2	Pn	26	VAL	N-CA-C	-5.12	102.97	109.58
2	Po	26	VAL	N-CA-C	-5.12	102.97	109.58
1	DJ	77	ALA	N-CA-C	5.12	116.08	108.60
1	G1	7	ILE	N-CA-C	-5.12	107.30	112.17
2	P1	54	GLY	N-CA-C	5.12	118.99	112.13
3	Y6	800	TRP	N-CA-C	5.12	119.37	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GJ	7	ILE	N-CA-C	-5.12	107.30	112.17
2	PG	54	GLY	N-CA-C	5.12	118.99	112.13
2	PH	26	VAL	N-CA-C	-5.12	102.97	109.58
3	YJ	800	TRP	N-CA-C	5.12	119.37	113.38
3	YO	831	SER	CA-C-O	-5.12	115.95	121.38
2	Pv	55	SER	N-CA-C	5.12	116.55	111.07
1	Bk	21	ILE	CA-C-O	-5.12	115.62	120.95
1	Oj	21	ILE	N-CA-C	-5.12	105.40	110.62
1	D1	8	ALA	CA-C-O	-5.12	115.93	121.87
2	P5	26	VAL	N-CA-C	-5.12	102.97	109.58
3	Y0	801	SER	N-CA-C	-5.12	102.20	110.14
1	DO	8	ALA	CA-C-O	-5.12	115.93	121.87
2	PW	26	VAL	N-CA-C	-5.12	102.98	109.58
3	YZ	801	SER	N-CA-C	-5.12	102.20	110.14
1	Lv	10	GLY	CA-C-O	-5.12	116.95	120.94
1	Dk	8	ALA	CA-C-O	-5.12	115.93	121.87
1	DR	8	ALA	CA-C-O	-5.12	115.93	121.87
1	LN	60	ALA	CA-C-O	-5.12	115.12	120.55
1	LB	60	ALA	CA-C-O	-5.12	115.12	120.55
1	IN	80	ILE	CA-C-O	-5.12	115.05	120.48
1	Ig	80	ILE	CA-C-O	-5.12	115.05	120.48
2	Pg	26	VAL	N-CA-C	-5.12	102.98	109.58
1	AZ	69	GLU	CA-C-O	-5.12	114.47	120.20
1	Dd	8	ALA	CA-C-O	-5.12	115.93	121.87
1	Gk	7	ILE	N-CA-C	-5.12	107.31	112.17
1	Jn	8	ALA	CA-C-O	-5.12	115.93	121.87
3	Yp	800	TRP	N-CA-C	5.12	119.37	113.38
2	P1	26	VAL	N-CA-C	-5.12	102.98	109.58
1	CT	49	LEU	CA-C-O	-5.12	114.64	120.32
3	YV	800	TRP	N-CA-C	5.12	119.37	113.38
3	YZ	800	TRP	N-CA-C	5.12	119.37	113.38
1	Dc	8	ALA	CA-C-O	-5.12	115.93	121.87
1	Fn	14	THR	CA-C-O	-5.12	115.62	121.40
3	Yo	800	TRP	N-CA-C	5.12	119.37	113.38
1	Dr	8	ALA	CA-C-O	-5.12	115.93	121.87
1	IC	80	ILE	CA-C-O	-5.12	115.06	120.48
2	P2	26	VAL	N-CA-C	-5.12	102.98	109.58
3	Y8	801	SER	N-CA-C	-5.12	102.21	110.14
1	AR	69	GLU	CA-C-O	-5.12	114.47	120.20
1	IR	80	ILE	CA-C-O	-5.12	115.06	120.48
3	YQ	800	TRP	N-CA-C	5.12	119.36	113.38
1	KM	36	VAL	N-CA-C	-5.12	106.93	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Bf	21	ILE	CA-C-O	-5.12	115.63	120.95
2	Pv	75	GLY	CA-C-O	-5.12	116.64	121.60
1	Ll	60	ALA	CA-C-O	-5.12	115.13	120.55
1	EE	53	GLU	CA-C-O	-5.11	115.78	121.81
1	A0	69	GLU	CA-C-O	-5.11	114.47	120.20
1	AF	69	GLU	CA-C-O	-5.11	114.47	120.20
1	DL	8	ALA	CA-C-O	-5.11	115.94	121.87
2	PL	26	VAL	N-CA-C	-5.11	102.98	109.58
1	DV	8	ALA	CA-C-O	-5.11	115.94	121.87
1	AU	69	GLU	CA-C-O	-5.11	114.47	120.20
2	Pq	26	VAL	N-CA-C	-5.11	102.98	109.58
3	Xj	687	THR	N-CA-C	5.11	120.91	114.31
3	Yr	801	SER	N-CA-C	-5.11	102.21	110.14
2	P4	26	VAL	N-CA-C	-5.11	102.98	109.58
1	BP	21	ILE	CA-C-O	-5.11	115.63	120.95
3	Ye	800	TRP	N-CA-C	5.11	119.36	113.38
1	Gp	7	ILE	N-CA-C	-5.11	107.31	112.17
1	L7	60	ALA	CA-C-O	-5.11	115.13	120.55
2	P0	75	GLY	CA-C-O	-5.11	116.64	121.60
1	GS	7	ILE	N-CA-C	-5.11	107.31	112.17
1	Lg	60	ALA	CA-C-O	-5.11	115.13	120.55
3	YY	801	SER	N-CA-C	-5.11	102.22	110.14
1	Gd	50	VAL	CA-C-O	-5.11	116.30	121.67
3	Yk	800	TRP	N-CA-C	5.11	119.36	113.38
1	Hs	40	PHE	CB-CA-C	5.11	118.47	110.19
2	PC	26	VAL	N-CA-C	-5.11	102.99	109.58
1	G6	7	ILE	N-CA-C	-5.11	107.32	112.17
2	PR	26	VAL	N-CA-C	-5.11	102.99	109.58
1	LH	60	ALA	CA-C-O	-5.11	115.14	120.55
1	GL	7	ILE	N-CA-C	-5.11	107.32	112.17
1	Kb	36	VAL	N-CA-C	-5.11	106.94	113.22
1	Av	69	GLU	CA-C-O	-5.11	114.48	120.20
1	DB	16	GLY	N-CA-C	5.11	116.80	111.95
3	YE	800	TRP	N-CA-C	5.11	119.36	113.38
1	D5	8	ALA	CA-C-O	-5.11	115.94	121.87
2	P9	26	VAL	N-CA-C	-5.11	102.99	109.58
3	YT	800	TRP	N-CA-C	5.11	119.36	113.38
2	PO	26	VAL	N-CA-C	-5.11	102.99	109.58
3	YN	801	SER	N-CA-C	-5.11	102.22	110.14
3	YF	801	SER	N-CA-C	-5.11	102.22	110.14
1	FU	95	ALA	CA-C-N	-5.11	114.31	119.83
1	FU	95	ALA	C-N-CA	-5.11	114.31	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	PU	26	VAL	N-CA-C	-5.11	102.99	109.58
1	As	69	GLU	CA-C-O	-5.11	114.48	120.20
1	I3	80	ILE	CA-C-O	-5.11	115.07	120.48
2	P8	26	VAL	N-CA-C	-5.11	102.99	109.58
1	II	80	ILE	CA-C-O	-5.11	115.07	120.48
2	PN	26	VAL	N-CA-C	-5.11	102.99	109.58
2	Pf	26	VAL	N-CA-C	-5.11	102.99	109.58
1	DZ	8	ALA	CA-C-O	-5.11	115.95	121.87
1	Ad	69	GLU	CA-C-O	-5.11	114.48	120.20
1	Bn	21	ILE	CA-C-O	-5.11	115.64	120.95
3	Xw	693	THR	CA-C-O	-5.11	115.40	120.66
2	PE	26	VAL	N-CA-C	-5.10	103.00	109.58
3	Y1	800	TRP	N-CA-C	5.10	119.35	113.38
2	PG	26	VAL	N-CA-C	-5.10	103.00	109.58
3	Xg	693	THR	CA-C-O	-5.10	115.40	120.66
3	Yt	800	TRP	N-CA-C	5.10	119.35	113.38
1	Fr	31	ALA	CA-C-O	-5.10	115.79	121.51
1	A9	69	GLU	CA-C-O	-5.10	114.49	120.20
1	DT	8	ALA	CA-C-O	-5.10	115.95	121.87
1	AO	69	GLU	CA-C-O	-5.10	114.49	120.20
1	FO	14	THR	CA-C-O	-5.10	115.63	121.40
1	Be	21	ILE	CA-C-O	-5.10	115.64	120.95
2	Pg	55	SER	N-CA-C	5.10	116.53	111.07
2	PX	26	VAL	N-CA-C	-5.10	103.00	109.58
3	YV	801	SER	N-CA-C	-5.10	102.23	110.14
1	Ga	7	ILE	N-CA-C	-5.10	107.32	112.17
2	Pv	26	VAL	N-CA-C	-5.10	103.00	109.58
3	Yu	800	TRP	N-CA-C	5.10	119.35	113.38
1	AS	69	GLU	CA-C-O	-5.10	114.49	120.20
1	ET	53	GLU	CA-C-O	-5.10	115.79	121.81
1	MT	45	TYR	CA-C-O	-5.10	114.82	120.38
2	Pg	75	GLY	CA-C-O	-5.10	116.65	121.60
1	KA	36	VAL	N-CA-C	-5.10	106.95	113.22
2	PC	55	SER	N-CA-C	5.10	116.53	111.07
1	A4	69	GLU	CA-C-O	-5.10	114.49	120.20
1	D2	8	ALA	CA-C-O	-5.10	115.95	121.87
1	G7	7	ILE	N-CA-C	-5.10	107.33	112.17
1	KP	36	VAL	N-CA-C	-5.10	106.95	113.22
1	LQ	60	ALA	CA-C-O	-5.10	115.15	120.55
1	AJ	69	GLU	CA-C-O	-5.10	114.49	120.20
1	KJ	36	VAL	N-CA-C	-5.10	106.95	113.22
1	LG	60	ALA	CA-C-O	-5.10	115.14	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	GM	7	ILE	N-CA-C	-5.10	107.33	112.17
1	Di	8	ALA	CA-C-O	-5.10	115.95	121.87
3	Yh	800	TRP	N-CA-C	5.10	119.34	113.38
1	DW	8	ALA	CA-C-O	-5.10	115.95	121.87
1	Lc	60	ALA	CA-C-O	-5.10	115.14	120.55
3	Ya	800	TRP	N-CA-C	5.10	119.35	113.38
1	Lv	60	ALA	CA-C-O	-5.10	115.14	120.55
1	Lr	60	ALA	CA-C-O	-5.10	115.14	120.55
2	Pr	26	VAL	N-CA-C	-5.10	103.00	109.58
1	Dh	36	VAL	N-CA-C	5.10	115.87	110.72
3	Xm	647	GLN	N-CA-C	5.10	116.53	111.07
3	YA	800	TRP	N-CA-C	5.10	119.34	113.38
2	P5	75	GLY	CA-C-O	-5.10	116.66	121.60
1	BR	21	ILE	CA-C-O	-5.10	115.65	120.95
1	LR	60	ALA	CA-C-O	-5.10	115.15	120.55
3	YP	800	TRP	N-CA-C	5.10	119.34	113.38
2	PK	75	GLY	CA-C-O	-5.10	116.66	121.60
1	FN	31	ALA	CA-C-O	-5.10	115.80	121.51
1	Fg	14	THR	CA-C-O	-5.10	115.64	121.40
1	Bx	21	ILE	CA-C-O	-5.10	115.65	120.95
1	Lt	60	ALA	CA-C-O	-5.10	115.15	120.55
1	Dm	8	ALA	CA-C-O	-5.10	115.96	121.87
3	Yq	801	SER	N-CA-C	-5.10	102.24	110.14
1	F7	14	THR	CA-C-O	-5.10	115.64	121.40
2	P6	26	VAL	N-CA-C	-5.10	103.01	109.58
1	B2	21	ILE	CA-C-O	-5.09	115.65	120.95
1	K1	36	VAL	N-CA-C	-5.09	106.95	113.22
1	K2	36	VAL	N-CA-C	-5.09	106.95	113.22
1	J9	8	ALA	CA-C-O	-5.09	115.96	121.87
3	Y8	800	TRP	N-CA-C	5.09	119.34	113.38
2	PQ	26	VAL	N-CA-C	-5.09	103.01	109.58
2	PJ	26	VAL	N-CA-C	-5.09	103.01	109.58
1	LF	60	ALA	CA-C-O	-5.09	115.15	120.55
1	Ke	36	VAL	N-CA-C	-5.09	106.95	113.22
1	BY	21	ILE	CA-C-O	-5.09	115.65	120.95
2	PX	75	GLY	CA-C-O	-5.09	116.66	121.60
1	Jd	8	ALA	CA-C-O	-5.09	115.96	121.87
3	Yc	800	TRP	N-CA-C	5.09	119.34	113.38
1	An	69	GLU	CA-C-O	-5.09	114.49	120.20
1	Kk	36	VAL	N-CA-C	-5.09	106.95	113.22
2	Pm	26	VAL	N-CA-C	-5.09	103.01	109.58
2	Pr	75	GLY	CA-C-O	-5.09	116.66	121.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Xh	693	THR	CA-C-O	-5.09	115.41	120.66
1	A5	69	GLU	CA-C-O	-5.09	114.50	120.20
1	B5	21	ILE	CA-C-O	-5.09	115.65	120.95
3	Y2	800	TRP	N-CA-C	5.09	119.34	113.38
3	Y5	800	TRP	N-CA-C	5.09	119.34	113.38
1	AK	69	GLU	CA-C-O	-5.09	114.50	120.20
3	YK	800	TRP	N-CA-C	5.09	119.34	113.38
3	Xi	693	THR	CA-C-O	-5.09	115.41	120.66
1	Fc	31	ALA	CA-C-O	-5.09	115.81	121.51
3	Yc	801	SER	N-CA-C	-5.09	102.25	110.14
1	DC	8	ALA	CA-C-O	-5.09	115.96	121.87
1	GA	7	ILE	N-CA-C	-5.09	107.33	112.17
1	G4	7	ILE	N-CA-C	-5.09	107.33	112.17
1	FM	14	THR	CA-C-O	-5.09	115.65	121.40
3	YN	800	TRP	N-CA-C	5.09	119.34	113.38
3	YF	800	TRP	N-CA-C	5.09	119.34	113.38
1	Jf	8	ALA	CA-C-O	-5.09	115.96	121.87
1	AV	69	GLU	CA-C-O	-5.09	114.50	120.20
1	GY	7	ILE	N-CA-C	-5.09	107.33	112.17
1	Ju	8	ALA	CA-C-O	-5.09	115.96	121.87
1	Fo	14	THR	CA-C-O	-5.09	115.65	121.40
1	Lq	60	ALA	CA-C-O	-5.09	115.15	120.55
2	P3	26	VAL	N-CA-C	-5.09	103.01	109.58
1	A7	69	GLU	CA-C-O	-5.09	114.50	120.20
1	AG	69	GLU	CA-C-O	-5.09	114.50	120.20
1	GG	7	ILE	N-CA-C	-5.09	107.33	112.17
2	PI	26	VAL	N-CA-C	-5.09	103.01	109.58
3	YI	800	TRP	N-CA-C	5.09	119.33	113.38
1	AM	69	GLU	CA-C-O	-5.09	114.50	120.20
1	Fa	31	ALA	CA-C-O	-5.09	115.81	121.51
1	At	69	GLU	CA-C-O	-5.09	114.50	120.20
3	Xx	693	THR	CA-C-O	-5.09	115.42	120.66
3	Y3	800	TRP	N-CA-C	5.09	119.33	113.38
1	B0	21	ILE	CA-C-O	-5.09	115.66	120.95
1	LS	60	ALA	CA-C-O	-5.09	115.16	120.55
1	BF	21	ILE	CA-C-O	-5.09	115.66	120.95
1	BU	21	ILE	CA-C-O	-5.09	115.66	120.95
1	Gx	23	ALA	CA-C-O	-5.09	115.48	120.82
3	Yk	801	SER	N-CA-C	-5.09	102.25	110.14
1	Fs	14	THR	CA-C-O	-5.09	115.65	121.40
3	Yr	800	TRP	N-CA-C	5.09	119.33	113.38
1	GD	7	ILE	N-CA-C	-5.09	107.34	112.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B8	21	ILE	CA-C-O	-5.09	115.66	120.95
1	K7	36	VAL	N-CA-C	-5.09	106.96	113.22
2	PR	55	SER	N-CA-C	5.09	116.51	111.07
1	FH	14	THR	CA-C-O	-5.09	115.65	121.40
1	BN	21	ILE	CA-C-O	-5.09	115.66	120.95
2	Pe	75	GLY	CA-C-O	-5.09	116.67	121.60
1	KY	36	VAL	N-CA-C	-5.09	106.96	113.22
1	Dv	8	ALA	CA-C-O	-5.09	115.97	121.87
1	Fv	14	THR	CA-C-O	-5.09	115.65	121.40
3	Yw	800	TRP	N-CA-C	5.09	119.33	113.38
1	Kl	36	VAL	N-CA-C	-5.09	106.96	113.22
1	Kn	36	VAL	N-CA-C	-5.09	106.96	113.22
3	Yn	801	SER	N-CA-C	-5.09	102.26	110.14
1	Fl	14	THR	CA-C-O	-5.09	115.65	121.40
1	Mf	45	TYR	CA-C-O	-5.08	114.84	120.38
1	Fd	14	THR	CA-C-O	-5.08	115.65	121.40
2	Pl	26	VAL	N-CA-C	-5.08	103.02	109.58
1	BB	21	ILE	CA-C-O	-5.08	115.66	120.95
1	D0	8	ALA	CA-C-O	-5.08	115.97	121.87
1	BQ	21	ILE	CA-C-O	-5.08	115.66	120.95
1	DK	8	ALA	CA-C-O	-5.08	115.97	121.87
1	AY	69	GLU	CA-C-O	-5.08	114.51	120.20
1	BZ	21	ILE	CA-C-O	-5.08	115.66	120.95
1	EY	53	GLU	CA-C-O	-5.08	115.81	121.81
1	LW	60	ALA	CA-C-O	-5.08	115.16	120.55
1	FU	14	THR	CA-C-O	-5.08	115.66	121.40
1	Bl	21	ILE	CA-C-O	-5.08	115.66	120.95
1	Gn	7	ILE	N-CA-C	-5.08	107.34	112.17
1	Jl	8	ALA	CA-C-O	-5.08	115.97	121.87
3	Yl	800	TRP	N-CA-C	5.08	119.33	113.38
1	Aj	69	GLU	CA-C-O	-5.08	114.51	120.20
1	Fj	14	THR	CA-C-O	-5.08	115.66	121.40
1	DS	53	GLU	O-C-N	-5.08	116.45	122.65
3	YC	800	TRP	N-CA-C	5.08	119.33	113.38
1	A3	69	GLU	CA-C-O	-5.08	114.51	120.20
1	B1	21	ILE	CA-C-O	-5.08	115.66	120.95
1	FR	14	THR	CA-C-O	-5.08	115.66	121.40
3	XQ	693	THR	CA-C-O	-5.08	115.42	120.66
3	XR	693	THR	CA-C-O	-5.08	115.43	120.66
1	AI	69	GLU	CA-C-O	-5.08	114.51	120.20
1	BG	21	ILE	CA-C-O	-5.08	115.66	120.95
1	Ii	80	ILE	CA-C-O	-5.08	115.09	120.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	BV	21	ILE	CA-C-O	-5.08	115.66	120.95
2	Pb	75	GLY	CA-C-O	-5.08	116.67	121.60
3	Yd	800	TRP	N-CA-C	5.08	119.32	113.38
1	Kt	36	VAL	N-CA-C	-5.08	106.97	113.22
1	Am	69	GLU	CA-C-O	-5.08	114.51	120.20
1	DY	28	THR	N-CA-C	5.08	116.82	111.28
1	LI	60	ALA	CA-C-O	-5.08	115.16	120.55
1	FF	14	THR	CA-C-O	-5.08	115.66	121.40
1	A8	69	GLU	CA-C-O	-5.08	114.51	120.20
1	L8	60	ALA	CA-C-O	-5.08	115.17	120.55
1	AN	69	GLU	CA-C-O	-5.08	114.51	120.20
1	Lh	60	ALA	CA-C-O	-5.08	115.17	120.55
1	JW	8	ALA	CA-C-O	-5.08	115.98	121.87
2	PV	75	GLY	CA-C-O	-5.08	116.67	121.60
2	Pl	75	GLY	CA-C-O	-5.08	116.67	121.60
1	Kr	36	VAL	N-CA-C	-5.08	106.97	113.22
1	FB	14	THR	CA-C-O	-5.08	115.66	121.40
1	K4	36	VAL	N-CA-C	-5.08	106.97	113.22
1	BT	21	ILE	CA-C-O	-5.08	115.67	120.95
1	FQ	14	THR	CA-C-O	-5.08	115.66	121.40
1	IP	80	ILE	CA-C-O	-5.08	115.10	120.48
1	DG	8	ALA	CA-C-O	-5.08	115.98	121.87
2	PF	75	GLY	CA-C-O	-5.08	116.67	121.60
1	JX	8	ALA	CA-C-O	-5.08	115.98	121.87
3	YW	800	TRP	N-CA-C	5.08	119.32	113.38
2	Pd	26	VAL	N-CA-C	-5.08	103.03	109.58
1	Dq	30	ALA	N-CA-C	5.08	116.82	111.28
1	Jm	8	ALA	CA-C-O	-5.08	115.98	121.87
1	LC	60	ALA	CA-C-O	-5.08	115.17	120.55
1	BK	21	ILE	CA-C-O	-5.08	115.67	120.95
3	Xv	693	THR	CA-C-O	-5.08	115.43	120.66
1	EL	7	ILE	N-CA-C	5.08	115.85	110.72
1	A1	69	GLU	CA-C-O	-5.08	114.52	120.20
1	F4	14	THR	CA-C-O	-5.08	115.67	121.40
1	K3	36	VAL	N-CA-C	-5.08	106.98	113.22
1	L2	60	ALA	CA-C-O	-5.08	115.17	120.55
1	FJ	14	THR	CA-C-O	-5.08	115.66	121.40
2	PI	75	GLY	CA-C-O	-5.08	116.68	121.60
2	Pc	26	VAL	N-CA-C	-5.08	103.03	109.58
1	Bt	21	ILE	CA-C-O	-5.08	115.67	120.95
1	Fw	14	THR	CA-C-O	-5.08	115.67	121.40
1	Ln	60	ALA	CA-C-O	-5.08	115.17	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Pq	75	GLY	CA-C-O	-5.08	116.68	121.60
1	Fh	14	THR	CA-C-O	-5.08	115.67	121.40
2	PT	75	GLY	CA-C-O	-5.07	116.68	121.60
3	YG	800	TRP	N-CA-C	5.07	119.31	113.38
1	BX	21	ILE	CA-C-O	-5.07	115.67	120.95
1	Bc	21	ILE	CA-C-O	-5.07	115.67	120.95
1	Lb	60	ALA	CA-C-O	-5.07	115.17	120.55
3	YU	800	TRP	N-CA-C	5.07	119.31	113.38
1	AC	69	GLU	CA-C-O	-5.07	114.52	120.20
1	L1	60	ALA	CA-C-O	-5.07	115.17	120.55
1	Ai	69	GLU	CA-C-O	-5.07	114.52	120.20
1	Ax	69	GLU	CA-C-O	-5.07	114.52	120.20
1	Bo	21	ILE	CA-C-O	-5.07	115.67	120.95
1	Go	23	ALA	CA-C-O	-5.07	115.50	120.82
1	DU	8	ALA	CA-C-O	-5.07	115.99	121.87
1	BC	21	ILE	CA-C-O	-5.07	115.68	120.95
2	PM	75	GLY	CA-C-O	-5.07	116.68	121.60
1	MZ	45	TYR	CA-C-O	-5.07	114.85	120.38
1	Dv	21	ILE	N-CA-C	-5.07	105.20	112.35
1	Mu	45	TYR	CA-C-O	-5.07	114.85	120.38
2	PA	75	GLY	CA-C-O	-5.07	116.68	121.60
1	KG	36	VAL	N-CA-C	-5.07	106.98	113.22
1	DX	8	ALA	CA-C-O	-5.07	115.99	121.87
1	KV	36	VAL	N-CA-C	-5.07	106.98	113.22
1	Gd	7	ILE	N-CA-C	-5.07	107.35	112.17
1	Ao	69	GLU	CA-C-O	-5.07	114.52	120.20
1	Ej	53	GLU	CA-C-O	-5.07	115.83	121.81
1	BA	21	ILE	CA-C-O	-5.07	115.68	120.95
1	KD	36	VAL	N-CA-C	-5.07	106.99	113.22
2	PC	75	GLY	CA-C-O	-5.07	116.68	121.60
2	PE	75	GLY	CA-C-O	-5.07	116.69	121.60
1	F9	14	THR	CA-C-O	-5.07	115.67	121.40
2	PR	75	GLY	CA-C-O	-5.07	116.68	121.60
1	BJ	21	ILE	CA-C-O	-5.07	115.68	120.95
2	Pi	75	GLY	CA-C-O	-5.07	116.69	121.60
1	AW	69	GLU	CA-C-O	-5.07	114.53	120.20
1	Dx	8	ALA	CA-C-O	-5.07	115.99	121.87
1	Kw	36	VAL	N-CA-C	-5.07	106.99	113.22
1	Fo	31	ALA	CA-C-O	-5.07	115.83	121.51
1	BE	21	ILE	CA-C-O	-5.07	115.68	120.95
1	A2	69	GLU	CA-C-O	-5.07	114.53	120.20
1	L4	60	ALA	CA-C-O	-5.07	115.18	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	Y4	800	TRP	N-CA-C	5.07	119.31	113.38
1	F8	31	ALA	CA-C-O	-5.07	115.84	121.51
1	M6	45	TYR	CA-C-O	-5.07	114.86	120.38
2	P7	75	GLY	CA-C-O	-5.07	116.69	121.60
1	KS	36	VAL	N-CA-C	-5.07	106.99	113.22
1	ML	45	TYR	CA-C-O	-5.07	114.86	120.38
1	LV	60	ALA	CA-C-O	-5.07	115.18	120.55
1	LY	60	ALA	CA-C-O	-5.07	115.18	120.55
1	Ma	45	TYR	CA-C-O	-5.07	114.86	120.38
1	Bu	21	ILE	CA-C-O	-5.07	115.68	120.95
1	Lk	60	ALA	CA-C-O	-5.07	115.18	120.55
1	Js	8	ALA	CA-C-O	-5.07	115.99	121.87
2	Pj	75	GLY	CA-C-O	-5.07	116.69	121.60
1	AE	69	GLU	CA-C-O	-5.06	114.53	120.20
2	P1	75	GLY	CA-C-O	-5.06	116.69	121.60
2	P8	75	GLY	CA-C-O	-5.06	116.69	121.60
2	PG	75	GLY	CA-C-O	-5.06	116.69	121.60
2	PN	75	GLY	CA-C-O	-5.06	116.69	121.60
1	Lf	60	ALA	CA-C-O	-5.06	115.18	120.55
1	FZ	14	THR	CA-C-O	-5.06	115.68	121.40
1	Ac	69	GLU	CA-C-O	-5.06	114.53	120.20
1	EU	53	GLU	CA-C-O	-5.06	115.83	121.81
1	Ho	14	THR	CA-C-O	-5.06	115.68	121.40
1	Mn	45	TYR	CA-C-O	-5.06	114.86	120.38
1	Ar	69	GLU	CA-C-O	-5.06	114.53	120.20
1	Jp	8	ALA	CA-C-O	-5.06	116.00	121.87
1	AB	69	GLU	CA-C-O	-5.06	114.53	120.20
3	YD	800	TRP	N-CA-C	5.06	119.30	113.38
2	P2	75	GLY	CA-C-O	-5.06	116.69	121.60
1	AQ	69	GLU	CA-C-O	-5.06	114.53	120.20
3	YO	800	TRP	N-CA-C	5.06	119.30	113.38
3	Yg	800	TRP	N-CA-C	5.06	119.30	113.38
1	FW	14	THR	CA-C-O	-5.06	115.68	121.40
2	Pa	75	GLY	CA-C-O	-5.06	116.69	121.60
1	Ew	53	GLU	CA-C-O	-5.06	115.84	121.81
1	Gt	7	ILE	N-CA-C	-5.06	107.36	112.17
1	KB	36	VAL	N-CA-C	-5.06	107.00	113.22
2	PB	75	GLY	CA-C-O	-5.06	116.69	121.60
1	F1	14	THR	CA-C-O	-5.06	115.68	121.40
1	F0	14	THR	CA-C-O	-5.06	115.68	121.40
3	Y0	800	TRP	N-CA-C	5.06	119.30	113.38
1	KQ	36	VAL	N-CA-C	-5.06	107.00	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	KH	36	VAL	N-CA-C	-5.06	107.00	113.22
2	Pf	75	GLY	CA-C-O	-5.06	116.69	121.60
1	Ku	36	VAL	N-CA-C	-5.06	107.00	113.22
2	Pu	75	GLY	CA-C-O	-5.06	116.69	121.60
2	Ps	26	VAL	N-CA-C	-5.06	103.05	109.58
1	B4	21	ILE	CA-C-O	-5.06	115.69	120.95
1	F3	14	THR	CA-C-O	-5.06	115.68	121.40
1	F5	14	THR	CA-C-O	-5.06	115.68	121.40
1	F6	31	ALA	CA-C-O	-5.06	115.84	121.51
3	YR	800	TRP	N-CA-C	5.06	119.30	113.38
1	FK	14	THR	CA-C-O	-5.06	115.68	121.40
1	IK	80	ILE	CA-C-O	-5.06	115.12	120.48
1	AL	69	GLU	CA-C-O	-5.06	114.53	120.20
1	KW	36	VAL	N-CA-C	-5.06	107.00	113.22
2	Px	75	GLY	CA-C-O	-5.06	116.69	121.60
1	FL	31	ALA	CA-C-O	-5.06	115.84	121.51
1	JY	8	ALA	CA-C-O	-5.06	116.00	121.87
1	Mm	45	TYR	CA-C-O	-5.06	114.87	120.38
1	FC	14	THR	CA-C-O	-5.06	115.68	121.40
1	JB	8	ALA	CA-C-O	-5.06	116.00	121.87
1	EH	53	GLU	CA-C-O	-5.06	115.84	121.81
1	IG	80	ILE	CA-C-O	-5.06	115.12	120.48
3	YH	800	TRP	N-CA-C	5.06	119.30	113.38
1	BM	21	ILE	CA-C-O	-5.06	115.69	120.95
1	AX	69	GLU	CA-C-O	-5.06	114.53	120.20
1	Kc	36	VAL	N-CA-C	-5.06	107.00	113.22
1	It	80	ILE	CA-C-O	-5.06	115.12	120.48
1	En	53	GLU	CA-C-O	-5.06	115.84	121.81
1	Bj	21	ILE	CA-C-O	-5.06	115.69	120.95
3	Xn	620	SER	N-CA-C	5.06	117.48	109.24
1	JI	8	ALA	CA-C-O	-5.06	116.00	121.87
1	IE	80	ILE	CA-C-O	-5.06	115.12	120.48
1	GO	7	ILE	N-CA-C	-5.06	107.37	112.17
1	Le	60	ALA	CA-C-O	-5.06	115.19	120.55
1	Ab	69	GLU	CA-C-O	-5.06	114.54	120.20
1	Iu	34	ARG	CA-C-O	-5.06	114.87	120.38
1	Ix	80	ILE	CA-C-O	-5.06	115.12	120.48
1	Mv	45	TYR	CA-C-O	-5.06	114.87	120.38
3	XD	693	THR	CA-C-O	-5.06	115.45	120.66
1	L3	60	ALA	CA-C-O	-5.06	115.19	120.55
1	FD	14	THR	CA-C-O	-5.05	115.69	121.40
1	KC	36	VAL	N-CA-C	-5.05	107.00	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	X6	620	SER	N-CA-C	5.05	117.21	109.07
1	DQ	8	ALA	CA-C-O	-5.05	116.01	121.87
1	FS	14	THR	CA-C-O	-5.05	115.69	121.40
1	IT	80	ILE	CA-C-O	-5.05	115.12	120.48
3	XL	620	SER	N-CA-C	5.05	117.21	109.07
2	Pc	75	GLY	CA-C-O	-5.05	116.70	121.60
1	Du	8	ALA	CA-C-O	-5.05	116.01	121.87
3	XE	693	THR	CA-C-O	-5.05	115.46	120.66
1	IV	80	ILE	CA-C-O	-5.05	115.12	120.48
2	PU	75	GLY	CA-C-O	-5.05	116.70	121.60
3	Yx	800	TRP	N-CA-C	5.05	119.29	113.38
1	Ik	80	ILE	CA-C-O	-5.05	115.12	120.48
1	Br	21	ILE	CA-C-O	-5.05	115.69	120.95
1	HA	14	THR	CA-C-O	-5.05	115.69	121.40
3	XA	699	GLN	N-CA-C	5.05	118.36	111.39
1	J4	8	ALA	CA-C-O	-5.05	116.01	121.87
2	P3	75	GLY	CA-C-O	-5.05	116.70	121.60
1	B7	21	ILE	CA-C-O	-5.05	115.70	120.95
1	J7	8	ALA	CA-C-O	-5.05	116.01	121.87
1	M0	45	TYR	CA-C-O	-5.05	114.87	120.38
3	XP	699	GLN	N-CA-C	5.05	118.36	111.39
1	KO	36	VAL	N-CA-C	-5.05	107.01	113.22
1	Ae	69	GLU	CA-C-O	-5.05	114.54	120.20
1	LU	60	ALA	CA-C-O	-5.05	115.20	120.55
2	Pu	26	VAL	N-CA-C	-5.05	103.06	109.58
1	Aq	69	GLU	CA-C-O	-5.05	114.54	120.20
1	Lj	60	ALA	CA-C-O	-5.05	115.20	120.55
1	Km	36	VAL	N-CA-C	-5.05	107.01	113.22
1	MK	45	TYR	CA-C-O	-5.05	114.88	120.38
1	AA	69	GLU	CA-C-O	-5.05	114.55	120.20
1	BD	21	ILE	CA-C-O	-5.05	115.70	120.95
1	E5	53	GLU	CA-C-O	-5.05	115.85	121.81
1	F2	14	THR	CA-C-O	-5.05	115.69	121.40
1	J2	8	ALA	CA-C-O	-5.05	116.01	121.87
1	K8	36	VAL	N-CA-C	-5.05	107.01	113.22
3	Y9	800	TRP	N-CA-C	5.05	119.29	113.38
1	BS	21	ILE	CA-C-O	-5.05	115.70	120.95
1	BI	21	ILE	CA-C-O	-5.05	115.70	120.95
1	EK	53	GLU	CA-C-O	-5.05	115.85	121.81
1	JH	8	ALA	CA-C-O	-5.05	116.01	121.87
1	Dj	21	ILE	N-CA-C	-5.05	105.23	112.35
3	Xa	620	SER	N-CA-C	5.05	117.20	109.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	DU	21	ILE	N-CA-C	-5.05	105.23	112.35
1	ME	45	TYR	CA-C-O	-5.05	114.88	120.38
1	MF	45	TYR	CA-C-O	-5.05	114.88	120.38
1	IA	80	ILE	CA-C-O	-5.05	115.13	120.48
1	H1	14	THR	CA-C-O	-5.05	115.70	121.40
1	A6	69	GLU	CA-C-O	-5.05	114.55	120.20
1	GP	7	ILE	N-CA-C	-5.05	107.38	112.17
1	HP	14	THR	CA-C-O	-5.05	115.70	121.40
3	XT	693	THR	CA-C-O	-5.05	115.46	120.66
3	YS	800	TRP	N-CA-C	5.05	119.28	113.38
1	Ff	14	THR	CA-C-O	-5.05	115.70	121.40
1	Fi	89	GLU	CB-CA-C	-5.05	100.98	110.67
1	LZ	60	ALA	CA-C-O	-5.05	115.20	120.55
1	Mk	45	TYR	CA-C-O	-5.05	114.88	120.38
1	Mp	45	TYR	CA-C-O	-5.05	114.88	120.38
1	L9	60	ALA	CA-C-O	-5.04	115.20	120.55
3	Yi	800	TRP	N-CA-C	5.04	119.28	113.38
1	La	60	ALA	CA-C-O	-5.04	115.20	120.55
1	Ft	14	THR	CA-C-O	-5.04	115.70	121.40
1	Ij	80	ILE	CA-C-O	-5.04	115.13	120.48
1	DS	94	LYS	N-CA-C	-5.04	99.55	108.23
1	FE	14	THR	CA-C-O	-5.04	115.70	121.40
1	HE	14	THR	CA-C-O	-5.04	115.70	121.40
1	E0	53	GLU	CA-C-O	-5.04	115.86	121.81
1	E6	53	GLU	CA-C-O	-5.04	115.86	121.81
1	ES	53	GLU	CA-C-O	-5.04	115.86	121.81
1	FT	14	THR	CA-C-O	-5.04	115.70	121.40
1	LO	60	ALA	CA-C-O	-5.04	115.20	120.55
1	JV	8	ALA	CA-C-O	-5.04	116.02	121.87
1	HU	14	THR	CA-C-O	-5.04	115.70	121.40
1	Ja	8	ALA	CA-C-O	-5.04	116.02	121.87
1	Fx	89	GLU	CB-CA-C	-5.04	100.99	110.67
1	Hx	14	THR	CA-C-O	-5.04	115.70	121.40
1	Fp	31	ALA	CA-C-O	-5.04	115.86	121.51
1	Hj	14	THR	CA-C-O	-5.04	115.70	121.40
1	Dw	58	ASN	CA-C-N	-5.04	113.52	120.28
1	Dw	58	ASN	C-N-CA	-5.04	113.52	120.28
3	XB	636	GLN	N-CA-C	5.04	117.54	110.23
1	I1	80	ILE	CA-C-O	-5.04	115.14	120.48
2	P6	75	GLY	CA-C-O	-5.04	116.71	121.60
1	AT	69	GLU	CA-C-O	-5.04	114.55	120.20
1	KR	36	VAL	N-CA-C	-5.04	107.02	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	XQ	636	GLN	N-CA-C	5.04	117.54	110.23
1	FI	31	ALA	CA-C-O	-5.04	115.86	121.51
1	EO	53	GLU	CA-C-O	-5.04	115.86	121.81
1	MM	45	TYR	CA-C-O	-5.04	114.88	120.38
2	PL	75	GLY	CA-C-O	-5.04	116.71	121.60
1	Bh	21	ILE	CA-C-O	-5.04	115.71	120.95
1	Ee	53	GLU	CA-C-O	-5.04	115.86	121.81
1	Fe	14	THR	CA-C-O	-5.04	115.70	121.40
1	Fi	14	THR	CA-C-O	-5.04	115.70	121.40
3	Yn	800	TRP	N-CA-C	5.04	119.28	113.38
1	Mj	45	TYR	CA-C-O	-5.04	114.89	120.38
3	Yj	800	TRP	N-CA-C	5.04	119.28	113.38
1	DR	21	ILE	N-CA-C	-5.04	105.24	112.35
3	XI	640	GLY	N-CA-C	5.04	121.89	112.77
1	E8	53	GLU	CA-C-O	-5.04	115.86	121.81
1	IF	80	ILE	CA-C-O	-5.04	115.14	120.48
1	Kg	36	VAL	N-CA-C	-5.04	107.02	113.22
1	HZ	14	THR	CA-C-O	-5.04	115.70	121.40
1	KX	36	VAL	N-CA-C	-5.04	107.02	113.22
1	KZ	36	VAL	N-CA-C	-5.04	107.02	113.22
1	Bb	21	ILE	CA-C-O	-5.04	115.71	120.95
1	Ft	89	GLU	CB-CA-C	-5.04	100.99	110.67
1	Iw	80	ILE	CA-C-O	-5.04	115.14	120.48
1	Io	80	ILE	CA-C-O	-5.04	115.14	120.48
1	D4	35	LEU	N-CA-C	-5.04	102.40	109.96
1	E4	53	GLU	CA-C-O	-5.04	115.86	121.81
1	M5	45	TYR	CA-C-O	-5.04	114.89	120.38
1	G9	7	ILE	N-CA-C	-5.04	107.38	112.17
1	K6	36	VAL	N-CA-C	-5.04	107.02	113.22
1	EJ	53	GLU	CA-C-O	-5.04	115.86	121.81
1	FK	89	GLU	CB-CA-C	-5.04	101.00	110.67
1	KL	36	VAL	N-CA-C	-5.04	107.02	113.22
1	FZ	31	ALA	CA-C-O	-5.04	115.87	121.51
2	PW	75	GLY	CA-C-O	-5.04	116.71	121.60
1	Bv	21	ILE	CA-C-O	-5.04	115.71	120.95
2	Pt	75	GLY	CA-C-O	-5.04	116.71	121.60
1	Ko	36	VAL	N-CA-C	-5.04	107.02	113.22
1	Lo	60	ALA	CA-C-O	-5.04	115.21	120.55
1	Bq	21	ILE	CA-C-O	-5.04	115.71	120.95
1	Gs	7	ILE	N-CA-C	-5.04	107.38	112.17
2	Pp	75	GLY	CA-C-O	-5.04	116.71	121.60
1	FT	89	GLU	CB-CA-C	-5.04	101.00	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Bi	21	ILE	CA-C-O	-5.04	115.71	120.95
1	Ec	53	GLU	CA-C-O	-5.04	115.87	121.81
1	Nv	13	GLU	N-CA-C	-5.04	101.48	109.59
2	Pt	55	SER	CB-CA-C	-5.04	109.29	116.34
1	Er	53	GLU	CA-C-O	-5.04	115.87	121.81
1	D4	92	LEU	N-CA-C	5.04	116.23	109.83
1	KI	36	VAL	N-CA-C	-5.04	107.02	113.22
1	B3	21	ILE	CA-C-O	-5.04	115.71	120.95
1	F5	89	GLU	CB-CA-C	-5.04	101.00	110.67
1	AH	69	GLU	CA-C-O	-5.04	114.56	120.20
1	HL	14	THR	CA-C-O	-5.04	115.71	121.40
1	Mg	45	TYR	CA-C-O	-5.04	114.89	120.38
1	MY	45	TYR	CA-C-O	-5.04	114.89	120.38
1	Jb	8	ALA	CA-C-O	-5.04	116.03	121.87
1	Lw	60	ALA	CA-C-O	-5.04	115.21	120.55
3	Xu	636	GLN	N-CA-C	5.04	117.53	110.23
1	Bm	21	ILE	CA-C-O	-5.04	115.71	120.95
1	Ir	34	ARG	CA-C-O	-5.04	114.89	120.38
1	Jq	8	ALA	CA-C-O	-5.04	116.03	121.87
1	Lm	18	VAL	CA-C-N	-5.04	113.46	119.05
1	Lm	18	VAL	C-N-CA	-5.04	113.46	119.05
1	FA	31	ALA	CA-C-O	-5.03	115.87	121.51
1	E7	53	GLU	CA-C-O	-5.03	115.87	121.81
1	L6	60	ALA	CA-C-O	-5.03	115.21	120.55
1	JJ	8	ALA	CA-C-O	-5.03	116.03	121.87
1	LL	60	ALA	CA-C-O	-5.03	115.21	120.55
1	FZ	89	GLU	CB-CA-C	-5.03	101.00	110.67
1	Ak	69	GLU	CA-C-O	-5.03	114.56	120.20
1	Dj	8	ALA	CA-C-O	-5.03	116.03	121.87
1	FC	31	ALA	CA-C-O	-5.03	115.88	121.51
1	L0	60	ALA	CA-C-O	-5.03	115.22	120.55
1	Mi	45	TYR	CA-C-O	-5.03	114.89	120.38
1	Ed	53	GLU	CA-C-O	-5.03	115.87	121.81
1	Mw	45	TYR	CA-C-O	-5.03	114.89	120.38
1	Es	53	GLU	CA-C-O	-5.03	115.87	121.81
1	ED	53	GLU	CA-C-O	-5.03	115.87	121.81
1	F1	31	ALA	CA-C-O	-5.03	115.88	121.51
1	H8	14	THR	CA-C-O	-5.03	115.72	121.40
1	I6	80	ILE	CA-C-O	-5.03	115.15	120.48
1	M7	45	TYR	CA-C-O	-5.03	114.90	120.38
1	FP	31	ALA	CA-C-O	-5.03	115.88	121.51
2	PQ	75	GLY	CA-C-O	-5.03	116.72	121.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	FG	31	ALA	CA-C-O	-5.03	115.88	121.51
1	FI	14	THR	CA-C-O	-5.03	115.72	121.40
1	BL	21	ILE	CA-C-O	-5.03	115.72	120.95
1	EM	53	GLU	CA-C-O	-5.03	115.87	121.81
1	Dg	21	ILE	N-CA-C	-5.03	105.26	112.35
1	Fe	89	GLU	CB-CA-C	-5.03	101.01	110.67
1	Ge	7	ILE	N-CA-C	-5.03	107.39	112.17
3	Xf	636	GLN	N-CA-C	5.03	117.52	110.23
1	Ea	53	GLU	CA-C-O	-5.03	115.87	121.81
1	Nl	52	GLY	CA-C-O	-5.03	115.83	121.21
1	Df	8	ALA	CA-C-O	-5.03	116.03	121.87
1	H5	14	THR	CA-C-O	-5.03	115.72	121.40
1	DL	21	ILE	N-CA-C	-5.03	105.26	112.35
3	Yv	800	TRP	N-CA-C	5.03	119.26	113.38
1	Fj	31	ALA	CA-C-O	-5.03	115.88	121.51
1	FL	14	THR	CA-C-O	-5.03	115.72	121.40
1	EB	53	GLU	CA-C-O	-5.03	115.88	121.81
1	FA	14	THR	CA-C-O	-5.03	115.72	121.40
1	IB	80	ILE	CA-C-O	-5.03	115.15	120.48
3	XB	693	THR	CA-C-O	-5.03	115.48	120.66
1	L5	60	ALA	CA-C-O	-5.03	115.22	120.55
1	EP	53	GLU	CA-C-O	-5.03	115.88	121.81
1	EQ	53	GLU	CA-C-O	-5.03	115.88	121.81
1	HH	14	THR	CA-C-O	-5.03	115.72	121.40
1	FX	89	GLU	CB-CA-C	-5.03	101.02	110.67
1	LX	60	ALA	CA-C-O	-5.03	115.22	120.55
1	Ka	36	VAL	N-CA-C	-5.03	107.04	113.22
1	Eu	53	GLU	CA-C-O	-5.03	115.88	121.81
1	Lx	60	ALA	CA-C-O	-5.03	115.22	120.55
3	Xt	699	GLN	N-CA-C	5.03	118.33	111.39
1	Nq	52	GLY	CA-C-O	-5.03	115.83	121.21
3	Xp	620	SER	N-CA-C	5.03	117.16	109.07
1	DC	21	ILE	N-CA-C	-5.03	105.26	112.35
1	EA	53	GLU	CA-C-O	-5.03	115.88	121.81
1	FA	89	GLU	CB-CA-C	-5.03	101.02	110.67
1	E2	53	GLU	CA-C-O	-5.03	115.88	121.81
1	M1	45	TYR	CA-C-O	-5.03	114.90	120.38
1	E9	53	GLU	CA-C-O	-5.03	115.88	121.81
1	F0	31	ALA	CA-C-O	-5.03	115.88	121.51
1	K9	36	VAL	N-CA-C	-5.03	107.04	113.22
1	FP	89	GLU	CB-CA-C	-5.03	101.02	110.67
1	MO	45	TYR	CA-C-O	-5.03	114.90	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Fe	31	ALA	CA-C-O	-5.03	115.88	121.51
1	MV	45	TYR	CA-C-O	-5.03	114.90	120.38
1	Fb	89	GLU	CB-CA-C	-5.03	101.02	110.67
1	Kd	36	VAL	N-CA-C	-5.03	107.04	113.22
1	Fv	31	ALA	CA-C-O	-5.03	115.88	121.51
1	Hk	14	THR	CA-C-O	-5.03	115.72	121.40
1	Dp	21	ILE	N-CA-C	-5.03	105.27	112.35
1	Hp	14	THR	CA-C-O	-5.03	115.72	121.40
1	FE	31	ALA	CA-C-O	-5.02	115.88	121.51
1	LA	60	ALA	CA-C-O	-5.02	115.22	120.55
1	FT	31	ALA	CA-C-O	-5.02	115.88	121.51
1	LP	60	ALA	CA-C-O	-5.02	115.22	120.55
1	Bg	21	ILE	CA-C-O	-5.02	115.72	120.95
1	Jh	8	ALA	CA-C-O	-5.02	116.04	121.87
1	Ip	34	ARG	CA-C-O	-5.02	114.90	120.38
1	MA	45	TYR	CA-C-O	-5.02	114.91	120.38
1	H6	14	THR	CA-C-O	-5.02	115.72	121.40
2	PS	75	GLY	CA-C-O	-5.02	116.73	121.60
1	FG	89	GLU	CB-CA-C	-5.02	101.03	110.67
1	IL	38	ARG	N-CA-C	-5.02	99.80	108.69
1	JM	8	ALA	CA-C-O	-5.02	116.05	121.87
1	Ef	53	GLU	CA-C-O	-5.02	115.88	121.81
1	Kf	36	VAL	N-CA-C	-5.02	107.04	113.22
2	Pe	55	SER	CB-CA-C	-5.02	109.31	116.34
1	MX	45	TYR	CA-C-O	-5.02	114.91	120.38
1	FU	31	ALA	CA-C-O	-5.02	115.89	121.51
2	Pd	75	GLY	CA-C-O	-5.02	116.73	121.60
1	Ht	14	THR	CA-C-O	-5.02	115.72	121.40
1	Bp	21	ILE	CA-C-O	-5.02	115.73	120.95
1	Ip	80	ILE	CA-C-O	-5.02	115.16	120.48
1	J3	8	ALA	CA-C-O	-5.02	116.05	121.87
1	Jv	54	THR	N-CA-C	5.02	117.14	111.11
1	MB	45	TYR	CA-C-O	-5.02	114.91	120.38
1	MQ	45	TYR	CA-C-O	-5.02	114.91	120.38
1	HG	14	THR	CA-C-O	-5.02	115.73	121.40
1	Hi	14	THR	CA-C-O	-5.02	115.73	121.40
1	IZ	80	ILE	CA-C-O	-5.02	115.16	120.48
1	Nm	76	VAL	N-CA-C	-5.02	106.90	111.67
1	FE	89	GLU	CB-CA-C	-5.02	101.03	110.67
2	PA	55	SER	CB-CA-C	-5.02	109.31	116.34
1	K5	36	VAL	N-CA-C	-5.02	107.05	113.22
2	P4	75	GLY	CA-C-O	-5.02	116.73	121.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B9	21	ILE	CA-C-O	-5.02	115.73	120.95
1	D0	21	ILE	N-CA-C	-5.02	105.27	112.35
1	F7	89	GLU	CB-CA-C	-5.02	101.03	110.67
1	H0	14	THR	CA-C-O	-5.02	115.73	121.40
1	M9	45	TYR	CA-C-O	-5.02	114.91	120.38
1	MR	45	TYR	CA-C-O	-5.02	114.91	120.38
1	FM	89	GLU	CB-CA-C	-5.02	101.03	110.67
1	IL	80	ILE	CA-C-O	-5.02	115.16	120.48
1	Af	69	GLU	CA-C-O	-5.02	114.58	120.20
1	HV	14	THR	CA-C-O	-5.02	115.73	121.40
1	Ga	52	GLY	CA-C-O	-5.02	116.73	121.60
1	MU	45	TYR	CA-C-O	-5.02	114.91	120.38
1	Mx	45	TYR	CA-C-O	-5.02	114.91	120.38
1	Fk	89	GLU	CB-CA-C	-5.02	101.03	110.67
1	In	80	ILE	CA-C-O	-5.02	115.16	120.48
1	F2	89	GLU	CB-CA-C	-5.02	101.03	110.67
1	D9	21	ILE	N-CA-C	-5.02	105.28	112.35
1	Fg	31	ALA	CA-C-O	-5.02	115.89	121.51
3	Xf	693	THR	CA-C-O	-5.02	115.49	120.66
1	EW	53	GLU	CA-C-O	-5.02	115.89	121.81
3	YY	800	TRP	N-CA-C	5.02	119.25	113.38
1	Hw	49	LEU	CA-C-O	-5.02	114.94	120.36
3	Xu	693	THR	CA-C-O	-5.02	115.49	120.66
1	Fk	31	ALA	CA-C-O	-5.02	115.89	121.51
1	Hm	14	THR	CA-C-O	-5.02	115.73	121.40
1	Hn	14	THR	CA-C-O	-5.02	115.73	121.40
3	Ys	800	TRP	N-CA-C	5.02	119.25	113.38
1	AP	69	GLU	CA-C-O	-5.02	114.58	120.20
1	FR	31	ALA	CA-C-O	-5.02	115.89	121.51
1	HO	14	THR	CA-C-O	-5.02	115.73	121.40
1	Eg	53	GLU	CA-C-O	-5.02	115.89	121.81
1	Li	60	ALA	CA-C-O	-5.02	115.23	120.55
1	FX	31	ALA	CA-C-O	-5.02	115.89	121.51
1	Au	69	GLU	CA-C-O	-5.02	114.58	120.20
1	Al	69	GLU	CA-C-O	-5.02	114.58	120.20
1	Ek	53	GLU	CA-C-O	-5.02	115.89	121.81
1	Fm	31	ALA	CA-C-O	-5.02	115.89	121.51
1	EC	53	GLU	CA-C-O	-5.01	115.89	121.81
1	D3	21	ILE	N-CA-C	-5.01	105.28	112.35
1	F4	89	GLU	CB-CA-C	-5.01	101.04	110.67
1	B6	21	ILE	CA-C-O	-5.01	115.74	120.95
1	D8	21	ILE	N-CA-C	-5.01	105.28	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	HT	14	THR	CA-C-O	-5.01	115.73	121.40
1	MP	45	TYR	CA-C-O	-5.01	114.91	120.38
1	HI	14	THR	CA-C-O	-5.01	115.73	121.40
1	JK	8	ALA	CA-C-O	-5.01	116.05	121.87
2	PH	75	GLY	CA-C-O	-5.01	116.74	121.60
1	DN	21	ILE	N-CA-C	-5.01	105.28	112.35
1	Ie	80	ILE	CA-C-O	-5.01	115.16	120.48
1	Ih	80	ILE	CA-C-O	-5.01	115.17	120.48
1	Aa	69	GLU	CA-C-O	-5.01	114.58	120.20
1	Ev	53	GLU	CA-C-O	-5.01	115.89	121.81
1	Dm	21	ILE	N-CA-C	-5.01	105.28	112.35
1	Hs	14	THR	CA-C-O	-5.01	115.73	121.40
1	Fq	89	GLU	CB-CA-C	-5.01	101.04	110.67
1	E3	53	GLU	CA-C-O	-5.01	115.89	121.81
1	DI	21	ILE	N-CA-C	-5.01	105.28	112.35
1	F0	89	GLU	CB-CA-C	-5.01	101.05	110.67
1	Ie	34	ARG	CA-C-O	-5.01	114.92	120.38
1	FV	31	ALA	CA-C-O	-5.01	115.90	121.51
1	Fu	89	GLU	CB-CA-C	-5.01	101.05	110.67
1	Kv	36	VAL	N-CA-C	-5.01	107.05	113.22
1	Ep	53	GLU	CA-C-O	-5.01	115.89	121.81
1	F8	89	GLU	CB-CA-C	-5.01	101.05	110.67
1	H7	14	THR	CA-C-O	-5.01	115.74	121.40
1	Fi	31	ALA	CA-C-O	-5.01	115.90	121.51
1	He	14	THR	CA-C-O	-5.01	115.74	121.40
1	DX	21	ILE	N-CA-C	-5.01	105.28	112.35
1	IV	34	ARG	CA-C-O	-5.01	114.92	120.38
1	IW	80	ILE	CA-C-O	-5.01	115.17	120.48
1	Ft	31	ALA	CA-C-O	-5.01	115.90	121.51
1	Fo	89	GLU	CB-CA-C	-5.01	101.05	110.67
1	Hq	14	THR	CA-C-O	-5.01	115.74	121.40
1	Kp	36	VAL	N-CA-C	-5.01	107.06	113.22
1	FY	89	GLU	CB-CA-C	-5.01	101.05	110.67
1	Dj	45	TYR	CA-C-O	-5.01	115.40	120.71
1	E1	53	GLU	CA-C-O	-5.01	115.90	121.81
1	M3	45	TYR	CA-C-O	-5.01	114.92	120.38
1	F6	89	GLU	CB-CA-C	-5.01	101.05	110.67
1	F8	14	THR	CA-C-O	-5.01	115.74	121.40
1	I0	80	ILE	CA-C-O	-5.01	115.17	120.48
1	JQ	8	ALA	CA-C-O	-5.01	116.06	121.87
1	JR	8	ALA	CA-C-O	-5.01	116.06	121.87
1	EG	53	GLU	CA-C-O	-5.01	115.90	121.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Jg	8	ALA	CA-C-O	-5.01	116.06	121.87
3	Xe	699	GLN	N-CA-C	5.01	118.30	111.39
1	FW	31	ALA	CA-C-O	-5.01	115.90	121.51
1	IU	80	ILE	CA-C-O	-5.01	115.17	120.48
1	Fu	14	THR	CA-C-O	-5.01	115.74	121.40
1	Hu	14	THR	CA-C-O	-5.01	115.74	121.40
1	Lu	60	ALA	CA-C-O	-5.01	115.24	120.55
1	Bs	21	ILE	CA-C-O	-5.01	115.74	120.95
1	Eq	53	GLU	CA-C-O	-5.01	115.90	121.81
1	Lp	60	ALA	CA-C-O	-5.01	115.24	120.55
1	JC	8	ALA	CA-C-O	-5.01	116.06	121.87
1	MI	45	TYR	CA-C-O	-5.01	114.92	120.38
1	ID	80	ILE	CA-C-O	-5.01	115.17	120.48
1	I8	34	ARG	CA-C-O	-5.01	114.92	120.38
1	ER	53	GLU	CA-C-O	-5.01	115.90	121.81
1	IS	80	ILE	CA-C-O	-5.01	115.17	120.48
1	IN	34	ARG	CA-C-O	-5.01	114.92	120.38
1	Ff	31	ALA	CA-C-O	-5.01	115.90	121.51
1	Hh	14	THR	CA-C-O	-5.01	115.74	121.40
1	Fu	31	ALA	CA-C-O	-5.01	115.90	121.51
1	Dk	45	TYR	CA-C-O	-5.01	115.40	120.71
1	Dq	15	ARG	N-CA-C	-5.01	102.23	109.59
1	El	92	LEU	N-CA-C	5.01	116.19	109.83
1	HB	14	THR	CA-C-O	-5.01	115.74	121.40
2	PD	75	GLY	CA-C-O	-5.01	116.74	121.60
1	F1	89	GLU	CB-CA-C	-5.01	101.06	110.67
1	F3	89	GLU	CB-CA-C	-5.01	101.06	110.67
1	F5	31	ALA	CA-C-O	-5.01	115.90	121.51
1	M2	45	TYR	CA-C-O	-5.01	114.92	120.38
1	I6	38	ARG	N-CA-C	-5.01	99.83	108.69
1	IQ	80	ILE	CA-C-O	-5.01	115.17	120.48
1	IR	34	ARG	CA-C-O	-5.01	114.92	120.38
1	LK	60	ALA	CA-C-O	-5.01	115.24	120.55
1	MH	45	TYR	CA-C-O	-5.01	114.92	120.38
1	Nh	30	ALA	CA-C-O	-5.01	114.21	119.97
1	Dc	21	ILE	N-CA-C	-5.01	105.29	112.35
1	Eb	53	GLU	CA-C-O	-5.01	115.90	121.81
1	Ha	14	THR	CA-C-O	-5.01	115.74	121.40
1	Bw	21	ILE	CA-C-O	-5.01	115.74	120.95
1	Gm	52	GLY	CA-C-O	-5.01	116.74	121.60
1	Ms	45	TYR	CA-C-O	-5.01	114.92	120.38
1	Ns	52	GLY	CA-C-O	-5.01	115.85	121.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	FL	89	GLU	CB-CA-C	-5.01	101.06	110.67
1	I3	34	ARG	CA-C-O	-5.00	114.92	120.38
3	X9	719	LEU	N-CA-C	5.00	117.49	110.23
1	Mh	45	TYR	CA-C-O	-5.00	114.92	120.38
1	EZ	53	GLU	CA-C-O	-5.00	115.90	121.81
1	Da	21	ILE	N-CA-C	-5.00	105.29	112.35
1	Dr	21	ILE	N-CA-C	-5.00	105.29	112.35
1	Ks	36	VAL	N-CA-C	-5.00	107.06	113.22
1	D6	21	ILE	N-CA-C	-5.00	105.29	112.35
1	IC	34	ARG	CA-C-O	-5.00	114.93	120.38
1	M4	45	TYR	CA-C-O	-5.00	114.93	120.38
1	I9	80	ILE	CA-C-O	-5.00	115.17	120.48
1	FQ	89	GLU	CB-CA-C	-5.00	101.06	110.67
1	FJ	89	GLU	CB-CA-C	-5.00	101.06	110.67
1	HK	14	THR	CA-C-O	-5.00	115.75	121.40
1	HM	14	THR	CA-C-O	-5.00	115.75	121.40
1	HN	14	THR	CA-C-O	-5.00	115.75	121.40
1	Ff	89	GLU	CB-CA-C	-5.00	101.06	110.67
1	If	80	ILE	CA-C-O	-5.00	115.18	120.48
1	Ki	36	VAL	N-CA-C	-5.00	107.06	113.22
1	EV	53	GLU	CA-C-O	-5.00	115.91	121.81
1	HY	14	THR	CA-C-O	-5.00	115.75	121.40
1	Ic	34	ARG	CA-C-O	-5.00	114.93	120.38
1	Id	34	ARG	CA-C-O	-5.00	114.93	120.38
1	Mc	45	TYR	CA-C-O	-5.00	114.93	120.38
1	Nk	13	GLU	N-CA-C	-5.00	101.53	109.59
1	FF	53	GLU	CA-C-O	-5.00	115.36	121.36
3	Xm	643	TYR	N-CA-C	-5.00	106.59	113.30
1	BO	21	ILE	CA-C-O	-5.00	115.75	120.95
1	Eh	53	GLU	CA-C-O	-5.00	115.91	121.81
1	KU	36	VAL	N-CA-C	-5.00	107.07	113.22
1	Et	53	GLU	CA-C-O	-5.00	115.91	121.81
1	Jk	8	ALA	CA-C-O	-5.00	116.07	121.87
1	J6	8	ALA	CA-C-O	-5.00	116.07	121.87

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	P0	68	PRO	Mainchain
2	PF	68	PRO	Mainchain
2	PU	68	PRO	Mainchain

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Mol	Chain	Res	Type	Group
2	Pj	68	PRO	Mainchain

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A0	656	0	677	15	0
1	A1	656	0	677	14	0
1	A2	656	0	677	16	0
1	A3	656	0	677	17	0
1	A4	656	0	677	14	0
1	A5	656	0	677	15	0
1	A6	656	0	677	14	0
1	A7	656	0	677	15	0
1	A8	656	0	677	16	0
1	A9	656	0	677	15	0
1	AA	656	0	677	14	0
1	AB	656	0	677	16	0
1	AC	656	0	677	18	0
1	AD	656	0	677	17	0
1	AE	656	0	677	15	0
1	AF	656	0	677	15	0
1	AG	656	0	677	14	0
1	AH	656	0	677	16	0
1	AI	656	0	677	17	0
1	AJ	656	0	677	15	0
1	AK	656	0	677	15	0
1	AL	656	0	677	15	0
1	AM	656	0	677	15	0
1	AN	656	0	677	16	0
1	AO	656	0	677	15	0
1	AP	656	0	677	15	0
1	AQ	656	0	677	16	0
1	AR	656	0	677	16	0
1	AS	656	0	677	14	0
1	AT	656	0	677	15	0
1	AU	656	0	677	16	0
1	AV	656	0	677	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AW	656	0	677	16	0
1	AX	656	0	677	17	0
1	AY	656	0	677	15	0
1	AZ	656	0	677	15	0
1	Aa	656	0	677	14	0
1	Ab	656	0	677	15	0
1	Ac	656	0	677	17	0
1	Ad	656	0	677	15	0
1	Ae	656	0	677	14	0
1	Af	656	0	677	16	0
1	Ag	656	0	677	17	0
1	Ah	656	0	677	15	0
1	Ai	656	0	677	15	0
1	Aj	656	0	677	15	0
1	Ak	656	0	677	14	0
1	Al	656	0	677	16	0
1	Am	656	0	677	19	0
1	An	656	0	677	14	0
1	Ao	656	0	677	15	0
1	Ap	656	0	677	20	0
1	Aq	656	0	677	15	0
1	Ar	656	0	677	15	0
1	As	656	0	677	15	0
1	At	656	0	677	14	0
1	Au	656	0	677	17	0
1	Av	656	0	677	15	0
1	Aw	656	0	677	15	0
1	Ax	656	0	677	15	0
1	B0	656	0	677	22	0
1	B1	656	0	677	21	0
1	B2	656	0	677	22	0
1	B3	656	0	677	24	0
1	B4	656	0	677	24	0
1	B5	656	0	677	22	0
1	B6	656	0	677	23	0
1	B7	656	0	677	19	0
1	B8	656	0	677	24	0
1	B9	656	0	677	22	0
1	BA	656	0	677	22	0
1	BB	656	0	677	22	0
1	BC	656	0	677	21	0
1	BD	656	0	677	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BE	656	0	677	21	0
1	BF	656	0	677	22	0
1	BG	656	0	677	21	0
1	BH	656	0	677	22	0
1	BI	656	0	677	24	0
1	BJ	656	0	677	25	0
1	BK	656	0	677	20	0
1	BL	656	0	677	27	0
1	BM	656	0	677	18	0
1	BN	656	0	677	24	0
1	BO	656	0	677	21	0
1	BP	656	0	677	22	0
1	BQ	656	0	677	22	0
1	BR	656	0	677	24	0
1	BS	656	0	677	22	0
1	BT	656	0	677	23	0
1	BU	656	0	677	20	0
1	BV	656	0	677	23	0
1	BW	656	0	677	21	0
1	BX	635	0	657	26	0
1	BY	656	0	677	24	0
1	BZ	656	0	677	21	0
1	Ba	656	0	677	24	0
1	Bb	656	0	677	20	0
1	Bc	656	0	677	23	0
1	Bd	656	0	677	22	0
1	Be	656	0	677	22	0
1	Bf	656	0	677	21	0
1	Bg	656	0	677	23	0
1	Bh	656	0	677	22	0
1	Bi	656	0	677	24	0
1	Bj	656	0	677	21	0
1	Bk	656	0	677	21	0
1	Bl	656	0	677	22	0
1	Bm	656	0	677	23	0
1	Bn	656	0	677	24	0
1	Bo	656	0	677	23	0
1	Bp	656	0	677	23	0
1	Bq	656	0	677	19	0
1	Br	656	0	677	22	0
1	Bs	656	0	677	22	0
1	Bt	656	0	677	21	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Bu	656	0	677	23	0
1	Bv	656	0	677	23	0
1	Bw	656	0	677	23	0
1	Bx	656	0	677	22	0
1	C0	656	0	677	16	0
1	C1	656	0	677	21	0
1	C2	656	0	677	19	0
1	C3	656	0	677	19	0
1	C4	656	0	677	20	0
1	C5	656	0	677	17	0
1	C6	656	0	677	21	0
1	C7	656	0	677	19	0
1	C8	656	0	677	18	0
1	C9	656	0	677	20	0
1	CA	656	0	677	18	0
1	CB	656	0	677	18	0
1	CC	656	0	677	18	0
1	CD	656	0	677	19	0
1	CE	656	0	677	15	0
1	CF	656	0	677	17	0
1	CG	656	0	677	18	0
1	CH	656	0	677	19	0
1	CI	656	0	677	19	0
1	CJ	656	0	677	19	0
1	CK	656	0	677	16	0
1	CL	656	0	677	20	0
1	CM	656	0	677	18	0
1	CN	656	0	677	18	0
1	CO	656	0	677	20	0
1	CP	656	0	677	20	0
1	CQ	656	0	677	18	0
1	CR	656	0	677	19	0
1	CS	656	0	677	19	0
1	CT	656	0	677	16	0
1	CU	656	0	677	18	0
1	CV	656	0	677	20	0
1	CW	656	0	677	19	0
1	CX	656	0	677	16	0
1	CY	656	0	677	19	0
1	CZ	656	0	677	16	0
1	Ca	656	0	677	22	0
1	Cb	656	0	677	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Cc	656	0	677	20	0
1	Cd	656	0	677	19	0
1	Ce	656	0	677	21	0
1	Cf	656	0	677	19	0
1	Cg	656	0	677	19	0
1	Ch	656	0	677	19	0
1	Ci	656	0	677	15	0
1	Cj	656	0	677	16	0
1	Ck	656	0	677	21	0
1	Cl	656	0	677	19	0
1	Cm	656	0	677	19	0
1	Cn	656	0	677	19	0
1	Co	656	0	677	16	0
1	Cp	656	0	677	21	0
1	Cq	656	0	677	18	0
1	Cr	656	0	677	18	0
1	Cs	656	0	677	19	0
1	Ct	656	0	677	21	0
1	Cu	656	0	677	19	0
1	Cv	656	0	677	20	0
1	Cw	656	0	677	19	0
1	Cx	656	0	677	15	0
1	D0	656	0	677	61	0
1	D1	656	0	677	18	0
1	D2	656	0	677	54	0
1	D3	656	0	677	45	0
1	D4	656	0	677	111	0
1	D5	656	0	677	19	0
1	D6	656	0	677	21	0
1	D7	656	0	676	101	0
1	D8	656	0	677	30	0
1	D9	656	0	677	18	0
1	DA	656	0	677	17	0
1	DB	656	0	677	65	0
1	DC	656	0	677	41	0
1	DD	656	0	677	68	0
1	DE	656	0	677	26	0
1	DF	635	0	657	25	0
1	DG	656	0	677	17	0
1	DH	656	0	677	60	0
1	DI	656	0	677	40	0
1	DJ	656	0	677	68	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	DK	656	0	677	19	0
1	DL	656	0	677	32	0
1	DM	656	0	677	46	0
1	DN	656	0	677	31	0
1	DO	656	0	677	17	0
1	DP	656	0	677	18	0
1	DQ	656	0	677	37	0
1	DR	656	0	677	16	0
1	DS	656	0	677	84	0
1	DT	656	0	677	27	0
1	DU	656	0	677	23	0
1	DV	656	0	677	19	0
1	DW	635	0	657	49	0
1	DX	656	0	677	48	0
1	DY	656	0	677	30	0
1	DZ	656	0	677	18	0
1	Da	656	0	677	26	0
1	Db	656	0	675	84	0
1	Dc	656	0	677	30	0
1	Dd	656	0	677	19	0
1	De	656	0	677	18	0
1	Df	656	0	677	32	0
1	Dg	656	0	677	31	0
1	Dh	656	0	677	88	0
1	Di	656	0	677	25	0
1	Dj	635	0	657	37	0
1	Dk	656	0	677	18	0
1	Dl	635	0	657	33	0
1	Dm	656	0	677	43	0
1	Dn	656	0	677	73	0
1	Do	656	0	677	18	0
1	Dp	656	0	677	33	0
1	Dq	656	0	676	70	0
1	Dr	656	0	677	33	0
1	Ds	656	0	677	19	0
1	Dt	656	0	677	18	0
1	Du	635	0	657	48	0
1	Dv	656	0	677	55	0
1	Dw	656	0	676	69	0
1	Dx	656	0	677	31	0
1	E0	656	0	677	16	0
1	E1	656	0	677	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E2	656	0	677	19	0
1	E3	656	0	677	31	0
1	E4	656	0	677	20	0
1	E5	656	0	677	20	0
1	E6	656	0	677	21	0
1	E7	656	0	677	27	0
1	E8	656	0	677	18	0
1	E9	656	0	677	22	0
1	EA	656	0	677	31	0
1	EB	656	0	677	20	0
1	EC	656	0	677	49	0
1	ED	656	0	677	23	0
1	EE	656	0	677	20	0
1	EF	635	0	657	19	0
1	EG	656	0	677	28	0
1	EH	656	0	677	21	0
1	EI	656	0	677	14	0
1	EJ	656	0	677	25	0
1	EK	656	0	677	21	0
1	EL	656	0	677	33	0
1	EM	656	0	677	26	0
1	EN	656	0	677	18	0
1	EO	656	0	677	22	0
1	EP	656	0	677	30	0
1	EQ	656	0	677	35	0
1	ER	656	0	677	46	0
1	ES	656	0	677	24	0
1	ET	656	0	677	18	0
1	EU	656	0	676	25	0
1	EV	656	0	677	25	0
1	EW	635	0	657	31	0
1	EX	656	0	677	33	0
1	EY	656	0	677	20	0
1	EZ	656	0	677	21	0
1	Ea	656	0	677	31	0
1	Eb	656	0	677	25	0
1	Ec	656	0	677	18	0
1	Ed	656	0	677	21	0
1	Ee	656	0	677	29	0
1	Ef	656	0	677	28	0
1	Eg	656	0	677	31	0
1	Eh	656	0	677	24	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Ei	656	0	677	20	0
1	Ej	656	0	677	28	0
1	Ek	656	0	677	29	0
1	El	635	0	657	9	0
1	Em	656	0	676	49	0
1	En	656	0	677	23	0
1	Eo	656	0	677	21	0
1	Ep	656	0	677	40	0
1	Eq	656	0	677	23	0
1	Er	656	0	677	18	0
1	Es	656	0	677	21	0
1	Et	656	0	677	33	0
1	Eu	656	0	677	33	0
1	Ev	656	0	677	62	0
1	Ew	656	0	677	28	0
1	Ex	656	0	677	19	0
1	F0	656	0	677	15	0
1	F1	656	0	677	12	0
1	F2	656	0	677	17	0
1	F3	656	0	677	13	0
1	F4	656	0	677	57	0
1	F5	656	0	677	14	0
1	F6	656	0	677	15	0
1	F7	656	0	677	33	0
1	F8	656	0	677	15	0
1	F9	656	0	677	14	0
1	FA	656	0	677	12	0
1	FB	656	0	677	11	0
1	FC	656	0	677	13	0
1	FD	656	0	676	33	0
1	FE	656	0	677	11	0
1	FF	635	0	657	22	0
1	FG	656	0	677	11	0
1	FH	656	0	677	15	0
1	FI	656	0	677	17	0
1	FJ	656	0	676	38	0
1	FK	656	0	677	14	0
1	FL	656	0	677	27	0
1	FM	656	0	677	13	0
1	FN	656	0	677	15	0
1	FO	656	0	677	13	0
1	FP	656	0	677	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	FQ	656	0	677	12	0
1	FR	656	0	677	13	0
1	FS	656	0	677	28	0
1	FT	656	0	677	12	0
1	FU	656	0	677	16	0
1	FV	656	0	677	11	0
1	FW	635	0	657	13	0
1	FX	656	0	677	13	0
1	FY	656	0	677	18	0
1	FZ	656	0	677	16	0
1	Fa	656	0	677	14	0
1	Fb	656	0	676	50	0
1	Fc	656	0	677	15	0
1	Fd	656	0	677	15	0
1	Fe	656	0	677	12	0
1	Ff	656	0	677	12	0
1	Fg	656	0	677	12	0
1	Fh	656	0	677	34	0
1	Fi	656	0	677	13	0
1	Fj	635	0	657	14	0
1	Fk	656	0	677	11	0
1	Fl	656	0	677	15	0
1	Fm	656	0	677	14	0
1	Fn	656	0	677	49	0
1	Fo	656	0	677	14	0
1	Fp	656	0	677	15	0
1	Fq	656	0	677	18	0
1	Fr	656	0	677	16	0
1	Fs	656	0	677	13	0
1	Ft	656	0	677	14	0
1	Fu	656	0	677	12	0
1	Fv	656	0	677	12	0
1	Fw	656	0	677	34	0
1	Fx	656	0	677	12	0
1	G0	656	0	677	20	0
1	G1	656	0	677	7	0
1	G2	656	0	677	17	0
1	G3	656	0	677	7	0
1	G4	656	0	677	6	0
1	G5	656	0	677	6	0
1	G6	656	0	677	7	0
1	G7	656	0	677	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	G8	656	0	677	6	0
1	G9	656	0	677	7	0
1	GA	656	0	677	7	0
1	GB	656	0	677	17	0
1	GC	656	0	677	6	0
1	GD	656	0	677	7	0
1	GE	656	0	677	6	0
1	GF	656	0	677	19	0
1	GG	656	0	677	7	0
1	GH	656	0	677	17	0
1	GI	656	0	677	10	0
1	GJ	656	0	677	7	0
1	GK	656	0	677	6	0
1	GL	656	0	677	8	0
1	GM	656	0	677	7	0
1	GN	656	0	677	6	0
1	GO	656	0	677	7	0
1	GP	656	0	677	8	0
1	GQ	656	0	677	19	0
1	GR	656	0	677	6	0
1	GS	656	0	677	6	0
1	GT	656	0	677	6	0
1	GU	656	0	677	18	0
1	GV	656	0	677	7	0
1	GW	656	0	677	16	0
1	GX	656	0	677	6	0
1	GY	656	0	677	6	0
1	GZ	656	0	677	7	0
1	Ga	656	0	677	8	0
1	Gb	656	0	677	6	0
1	Gc	656	0	677	7	0
1	Gd	656	0	677	6	0
1	Ge	656	0	677	6	0
1	Gf	656	0	677	19	0
1	Gg	656	0	677	6	0
1	Gh	656	0	677	7	0
1	Gi	656	0	677	7	0
1	Gj	635	0	657	17	0
1	Gk	656	0	677	7	0
1	Gl	635	0	657	17	0
1	Gm	656	0	677	6	0
1	Gn	656	0	677	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Go	656	0	677	7	0
1	Gp	656	0	677	8	0
1	Gq	656	0	677	6	0
1	Gr	656	0	677	7	0
1	Gs	656	0	677	7	0
1	Gt	656	0	677	7	0
1	Gu	656	0	677	17	0
1	Gv	656	0	677	7	0
1	Gw	656	0	677	6	0
1	Gx	656	0	677	7	0
1	H0	656	0	677	33	0
1	H1	656	0	677	30	0
1	H2	656	0	677	31	0
1	H3	656	0	677	31	0
1	H4	656	0	677	30	0
1	H5	656	0	677	30	0
1	H6	656	0	677	28	0
1	H7	656	0	677	31	0
1	H8	656	0	677	29	0
1	H9	656	0	677	29	0
1	HA	656	0	677	29	0
1	HB	656	0	677	30	0
1	HC	656	0	677	29	0
1	HD	656	0	677	27	0
1	HE	656	0	677	27	0
1	HF	656	0	677	32	0
1	HG	656	0	677	29	0
1	HH	656	0	677	31	0
1	HI	656	0	677	29	0
1	HJ	656	0	677	27	0
1	HK	656	0	677	28	0
1	HL	656	0	677	29	0
1	HM	656	0	677	31	0
1	HN	656	0	677	29	0
1	HO	656	0	677	30	0
1	HP	656	0	677	29	0
1	HQ	656	0	677	32	0
1	HR	656	0	677	28	0
1	HS	656	0	677	30	0
1	HT	656	0	677	29	0
1	HU	656	0	677	33	0
1	HV	656	0	677	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	HW	656	0	677	28	0
1	HX	656	0	677	28	0
1	HY	656	0	677	29	0
1	HZ	656	0	677	32	0
1	Ha	656	0	677	28	0
1	Hb	656	0	677	33	0
1	Hc	656	0	677	29	0
1	Hd	656	0	677	29	0
1	He	656	0	677	29	0
1	Hf	656	0	677	32	0
1	Hg	656	0	677	29	0
1	Hh	656	0	677	27	0
1	Hi	656	0	677	30	0
1	Hj	656	0	677	33	0
1	Hk	656	0	677	29	0
1	Hl	656	0	677	32	0
1	Hm	656	0	677	29	0
1	Hn	656	0	677	27	0
1	Ho	656	0	677	30	0
1	Hp	656	0	677	28	0
1	Hq	656	0	677	31	0
1	Hr	656	0	677	29	0
1	Hs	656	0	677	29	0
1	Ht	656	0	677	27	0
1	Hu	656	0	677	32	0
1	Hv	656	0	677	29	0
1	Hw	656	0	677	29	0
1	Hx	656	0	677	30	0
1	I0	656	0	677	16	0
1	I1	656	0	677	16	0
1	I2	656	0	677	17	0
1	I3	656	0	677	17	0
1	I4	656	0	677	15	0
1	I5	656	0	677	16	0
1	I6	656	0	677	17	0
1	I7	656	0	677	15	0
1	I8	656	0	677	17	0
1	I9	656	0	677	16	0
1	IA	656	0	677	16	0
1	IB	656	0	677	18	0
1	IC	656	0	677	16	0
1	ID	656	0	677	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	IE	656	0	677	15	0
1	IF	656	0	677	15	0
1	IG	656	0	677	16	0
1	IH	656	0	677	18	0
1	II	656	0	677	17	0
1	IJ	656	0	677	14	0
1	IK	656	0	677	16	0
1	IL	656	0	677	17	0
1	IM	656	0	677	15	0
1	IN	656	0	677	17	0
1	IO	656	0	677	16	0
1	IP	656	0	677	16	0
1	IQ	656	0	677	19	0
1	IR	656	0	677	17	0
1	IS	656	0	677	16	0
1	IT	656	0	677	14	0
1	IU	656	0	677	16	0
1	IV	656	0	677	16	0
1	IW	656	0	677	15	0
1	IX	656	0	677	17	0
1	IY	656	0	677	15	0
1	IZ	656	0	677	17	0
1	Ia	656	0	677	17	0
1	Ib	656	0	677	16	0
1	Ic	656	0	677	18	0
1	Id	656	0	677	15	0
1	Ie	656	0	677	17	0
1	If	656	0	677	19	0
1	Ig	656	0	677	17	0
1	Ih	656	0	677	16	0
1	Ii	656	0	677	15	0
1	Ij	656	0	677	15	0
1	Ik	656	0	677	17	0
1	Il	656	0	677	14	0
1	Im	656	0	677	17	0
1	In	656	0	677	16	0
1	Io	656	0	677	16	0
1	Ip	656	0	677	17	0
1	Iq	656	0	677	15	0
1	Ir	656	0	677	18	0
1	Is	656	0	677	16	0
1	It	656	0	677	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Iu	656	0	677	19	0
1	Iv	656	0	677	16	0
1	Iw	656	0	677	16	0
1	Ix	656	0	677	15	0
1	J0	656	0	676	17	0
1	J1	656	0	677	8	0
1	J2	656	0	676	21	0
1	J3	656	0	677	22	0
1	J4	656	0	676	19	0
1	J5	656	0	677	11	0
1	J6	656	0	677	44	0
1	J7	656	0	677	30	0
1	J8	656	0	677	12	0
1	J9	656	0	677	9	0
1	JA	656	0	677	8	0
1	JB	656	0	676	19	0
1	JC	656	0	677	10	0
1	JD	656	0	677	19	0
1	JE	656	0	677	13	0
1	JF	656	0	677	32	0
1	JG	656	0	677	8	0
1	JH	656	0	677	20	0
1	JI	656	0	677	20	0
1	JJ	656	0	676	28	0
1	JK	656	0	677	10	0
1	JL	656	0	677	36	0
1	JM	656	0	677	17	0
1	JN	656	0	677	11	0
1	JO	656	0	677	9	0
1	JP	656	0	677	9	0
1	JQ	656	0	677	23	0
1	JR	656	0	677	21	0
1	JS	656	0	677	31	0
1	JT	656	0	677	13	0
1	JU	656	0	677	11	0
1	JV	656	0	677	8	0
1	JW	656	0	677	18	0
1	JX	656	0	677	21	0
1	JY	656	0	677	15	0
1	JZ	656	0	677	10	0
1	Ja	656	0	677	36	0
1	Jb	656	0	677	19	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Jc	656	0	677	12	0
1	Jd	656	0	677	9	0
1	Je	656	0	677	9	0
1	Jf	656	0	677	20	0
1	Jg	656	0	677	43	0
1	Jh	656	0	677	17	0
1	Ji	656	0	677	12	0
1	Jj	656	0	677	25	0
1	Jk	656	0	677	8	0
1	Jl	656	0	677	22	0
1	Jm	656	0	676	22	0
1	Jn	656	0	677	33	0
1	Jo	656	0	677	10	0
1	Jp	656	0	677	47	0
1	Jq	656	0	677	22	0
1	Jr	656	0	677	12	0
1	Js	656	0	677	9	0
1	Jt	656	0	677	8	0
1	Ju	656	0	677	22	0
1	Jv	656	0	677	75	0
1	Jw	656	0	677	34	0
1	Jx	656	0	677	13	0
1	K0	656	0	677	11	0
1	K1	656	0	677	11	0
1	K2	656	0	677	10	0
1	K3	656	0	677	12	0
1	K4	656	0	677	10	0
1	K5	656	0	677	10	0
1	K6	656	0	677	13	0
1	K7	656	0	677	10	0
1	K8	656	0	677	12	0
1	K9	656	0	677	11	0
1	KA	656	0	677	14	0
1	KB	656	0	677	12	0
1	KC	656	0	677	11	0
1	KD	656	0	677	9	0
1	KE	656	0	677	11	0
1	KF	656	0	677	12	0
1	KG	656	0	677	13	0
1	KH	656	0	677	13	0
1	KI	656	0	677	11	0
1	KJ	656	0	677	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	KK	656	0	677	11	0
1	KL	656	0	677	12	0
1	KM	656	0	677	10	0
1	KN	656	0	677	10	0
1	KO	656	0	677	9	0
1	KP	656	0	677	14	0
1	KQ	656	0	677	9	0
1	KR	656	0	677	11	0
1	KS	656	0	677	10	0
1	KT	656	0	677	13	0
1	KU	656	0	677	10	0
1	KV	656	0	677	11	0
1	KW	656	0	677	9	0
1	KX	656	0	677	15	0
1	KY	656	0	677	11	0
1	KZ	656	0	677	11	0
1	Ka	656	0	677	10	0
1	Kb	656	0	677	10	0
1	Kc	656	0	677	11	0
1	Kd	656	0	677	11	0
1	Ke	656	0	677	13	0
1	Kf	656	0	677	10	0
1	Kg	656	0	677	11	0
1	Kh	656	0	677	11	0
1	Ki	656	0	677	12	0
1	Kj	656	0	677	10	0
1	Kk	656	0	677	11	0
1	Kl	656	0	677	10	0
1	Km	656	0	677	12	0
1	Kn	656	0	677	10	0
1	Ko	656	0	677	12	0
1	Kp	656	0	677	16	0
1	Kq	656	0	677	10	0
1	Kr	656	0	677	11	0
1	Ks	656	0	677	10	0
1	Kt	656	0	677	12	0
1	Ku	656	0	677	10	0
1	Kv	656	0	677	10	0
1	Kw	656	0	677	10	0
1	Kx	656	0	677	12	0
1	L0	656	0	677	5	0
1	L1	656	0	677	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L2	656	0	677	6	0
1	L3	656	0	676	6	0
1	L4	656	0	677	3	0
1	L5	656	0	677	27	0
1	L6	656	0	677	4	0
1	L7	656	0	677	18	0
1	L8	656	0	677	33	0
1	L9	656	0	677	2	0
1	LA	656	0	677	4	0
1	LB	656	0	677	11	0
1	LC	656	0	677	6	0
1	LD	656	0	677	6	0
1	LE	656	0	677	5	0
1	LF	656	0	677	5	0
1	LG	656	0	677	2	0
1	LH	656	0	677	6	0
1	LI	656	0	677	10	0
1	LJ	656	0	677	2	0
1	LK	656	0	677	4	0
1	LL	656	0	677	6	0
1	LM	656	0	677	10	0
1	LN	656	0	677	37	0
1	LO	656	0	677	3	0
1	LP	656	0	677	4	0
1	LQ	656	0	677	11	0
1	LR	656	0	677	6	0
1	LS	656	0	677	15	0
1	LT	656	0	677	5	0
1	LU	656	0	677	5	0
1	LV	656	0	677	1	0
1	LW	656	0	677	6	0
1	LX	656	0	677	8	0
1	LY	656	0	677	5	0
1	LZ	656	0	677	4	0
1	La	656	0	676	25	0
1	Lb	656	0	677	3	0
1	Lc	656	0	675	19	0
1	Ld	656	0	677	3	0
1	Le	656	0	677	4	0
1	Lf	656	0	677	11	0
1	Lg	656	0	677	7	0
1	Lh	656	0	677	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Li	656	0	677	7	0
1	Lj	656	0	677	4	0
1	Lk	656	0	677	2	0
1	Ll	656	0	677	6	0
1	Lm	656	0	677	24	0
1	Ln	656	0	677	8	0
1	Lo	656	0	677	4	0
1	Lp	656	0	677	5	0
1	Lq	656	0	677	7	0
1	Lr	656	0	677	7	0
1	Ls	656	0	677	3	0
1	Lt	656	0	677	3	0
1	Lu	656	0	677	11	0
1	Lv	656	0	677	11	0
1	Lw	656	0	677	8	0
1	Lx	656	0	677	6	0
1	M0	656	0	677	7	0
1	M1	656	0	677	7	0
1	M2	656	0	677	7	0
1	M3	656	0	677	12	0
1	M4	656	0	677	5	0
1	M5	656	0	677	7	0
1	M6	656	0	677	10	0
1	M7	656	0	677	6	0
1	M8	656	0	677	7	0
1	M9	656	0	677	7	0
1	MA	656	0	677	6	0
1	MB	656	0	677	9	0
1	MC	656	0	677	9	0
1	MD	656	0	677	5	0
1	ME	656	0	677	6	0
1	MF	656	0	677	13	0
1	MG	656	0	677	7	0
1	MH	656	0	677	7	0
1	MI	656	0	677	6	0
1	MJ	656	0	677	7	0
1	MK	656	0	677	7	0
1	ML	656	0	677	7	0
1	MM	656	0	677	5	0
1	MN	656	0	677	7	0
1	MO	656	0	677	6	0
1	MP	656	0	677	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	MQ	656	0	677	7	0
1	MR	656	0	677	8	0
1	MS	656	0	677	6	0
1	MT	656	0	677	6	0
1	MU	656	0	677	6	0
1	MV	656	0	677	7	0
1	MW	656	0	677	6	0
1	MX	656	0	677	7	0
1	MY	656	0	677	5	0
1	MZ	656	0	677	7	0
1	Ma	656	0	677	5	0
1	Mb	656	0	677	5	0
1	Mc	656	0	677	7	0
1	Md	656	0	677	6	0
1	Me	656	0	677	6	0
1	Mf	656	0	677	6	0
1	Mg	656	0	677	6	0
1	Mh	656	0	677	6	0
1	Mi	656	0	677	7	0
1	Mj	656	0	677	6	0
1	Mk	656	0	677	6	0
1	Ml	656	0	677	7	0
1	Mm	656	0	677	11	0
1	Mn	656	0	677	5	0
1	Mo	656	0	677	7	0
1	Mp	656	0	677	7	0
1	Mq	656	0	677	6	0
1	Mr	656	0	677	7	0
1	Ms	656	0	677	6	0
1	Mt	656	0	677	6	0
1	Mu	656	0	677	7	0
1	Mv	656	0	677	19	0
1	Mw	656	0	677	8	0
1	Mx	656	0	677	7	0
1	N0	656	0	677	11	0
1	N1	656	0	677	10	0
1	N2	656	0	677	9	0
1	N3	656	0	677	13	0
1	N4	656	0	677	20	0
1	N5	656	0	677	12	0
1	N6	656	0	677	11	0
1	N7	656	0	677	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N8	656	0	677	13	0
1	N9	656	0	677	12	0
1	NA	656	0	677	11	0
1	NB	656	0	677	12	0
1	NC	656	0	677	10	0
1	ND	656	0	677	9	0
1	NE	656	0	677	11	0
1	NF	656	0	677	11	0
1	NG	656	0	677	11	0
1	NH	656	0	677	9	0
1	NI	656	0	677	12	0
1	NJ	656	0	677	13	0
1	NK	656	0	677	11	0
1	NL	656	0	677	7	0
1	NM	656	0	677	11	0
1	NN	656	0	677	12	0
1	NO	656	0	677	11	0
1	NP	656	0	677	11	0
1	NQ	656	0	677	12	0
1	NR	656	0	677	12	0
1	NS	656	0	677	9	0
1	NT	656	0	677	12	0
1	NU	656	0	677	11	0
1	NV	656	0	677	10	0
1	NW	656	0	677	9	0
1	NX	656	0	677	14	0
1	NY	656	0	677	13	0
1	NZ	656	0	677	10	0
1	Na	656	0	677	10	0
1	Nb	656	0	677	10	0
1	Nc	656	0	677	12	0
1	Nd	656	0	677	11	0
1	Ne	656	0	677	11	0
1	Nf	656	0	677	12	0
1	Ng	656	0	677	11	0
1	Nh	656	0	677	9	0
1	Ni	656	0	677	11	0
1	Nj	656	0	677	11	0
1	Nk	656	0	677	11	0
1	Nl	656	0	677	9	0
1	Nm	656	0	677	15	0
1	Nn	656	0	677	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	No	656	0	677	11	0
1	Np	656	0	677	12	0
1	Nq	656	0	677	10	0
1	Nr	656	0	677	11	0
1	Ns	656	0	677	11	0
1	Nt	656	0	677	11	0
1	Nu	656	0	677	12	0
1	Nv	656	0	677	11	0
1	Nw	656	0	677	9	0
1	Nx	656	0	677	11	0
1	O0	656	0	677	9	0
1	O1	656	0	677	8	0
1	O2	656	0	677	8	0
1	O3	656	0	677	9	0
1	O4	656	0	677	9	0
1	O5	656	0	677	7	0
1	O6	656	0	677	7	0
1	O7	656	0	677	9	0
1	O8	656	0	677	10	0
1	O9	656	0	677	9	0
1	OA	656	0	677	8	0
1	OB	656	0	677	7	0
1	OC	656	0	677	7	0
1	OD	656	0	677	10	0
1	OE	656	0	677	7	0
1	OF	656	0	677	12	0
1	OG	656	0	677	8	0
1	OH	656	0	677	8	0
1	OI	656	0	677	10	0
1	OJ	656	0	677	13	0
1	OK	656	0	677	8	0
1	OL	656	0	677	9	0
1	OM	656	0	677	9	0
1	ON	656	0	677	10	0
1	OO	656	0	677	9	0
1	OP	656	0	677	8	0
1	OQ	656	0	677	7	0
1	OR	656	0	677	7	0
1	OS	656	0	677	9	0
1	OT	656	0	677	7	0
1	OU	656	0	677	10	0
1	OV	656	0	677	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	OW	656	0	677	9	0
1	OX	656	0	677	9	0
1	OY	656	0	677	8	0
1	OZ	656	0	677	7	0
1	Oa	656	0	677	9	0
1	Ob	656	0	677	9	0
1	Oc	656	0	677	10	0
1	Od	656	0	677	8	0
1	Oe	656	0	677	8	0
1	Of	656	0	677	7	0
1	Og	656	0	677	7	0
1	Oh	656	0	677	8	0
1	Oi	656	0	677	7	0
1	Oj	656	0	677	10	0
1	Ok	656	0	677	8	0
1	Ol	656	0	677	8	0
1	Om	656	0	677	9	0
1	On	656	0	677	8	0
1	Oo	656	0	677	7	0
1	Op	656	0	677	10	0
1	Oq	656	0	677	9	0
1	Or	656	0	677	10	0
1	Os	656	0	677	9	0
1	Ot	656	0	677	8	0
1	Ou	656	0	677	7	0
1	Ov	656	0	677	26	0
1	Ow	656	0	677	9	0
1	Ox	656	0	677	7	0
2	P0	608	0	625	46	0
2	P1	608	0	625	42	0
2	P2	608	0	625	41	0
2	P3	608	0	625	46	0
2	P4	608	0	625	36	0
2	P5	608	0	625	42	0
2	P6	608	0	625	42	0
2	P7	608	0	625	38	0
2	P8	608	0	625	42	0
2	P9	608	0	625	37	0
2	PA	608	0	625	40	0
2	PB	608	0	625	43	0
2	PC	608	0	625	45	0
2	PD	608	0	625	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	PE	608	0	625	34	0
2	PF	608	0	625	48	0
2	PG	608	0	625	43	0
2	PH	608	0	625	40	0
2	PI	608	0	625	44	0
2	PJ	608	0	625	37	0
2	PK	608	0	625	41	0
2	PL	608	0	625	43	0
2	PM	608	0	625	36	0
2	PN	608	0	625	40	0
2	PO	608	0	625	40	0
2	PP	608	0	625	42	0
2	PQ	608	0	625	42	0
2	PR	608	0	625	43	0
2	PS	608	0	625	27	0
2	PT	608	0	625	34	0
2	PU	608	0	625	47	0
2	PV	608	0	625	43	0
2	PW	608	0	625	38	0
2	PX	608	0	625	43	0
2	PY	608	0	625	37	0
2	PZ	608	0	625	42	0
2	Pa	608	0	625	43	0
2	Pb	608	0	625	36	0
2	Pc	608	0	625	41	0
2	Pd	608	0	625	40	0
2	Pe	608	0	625	43	0
2	Pf	608	0	625	43	0
2	Pg	608	0	625	44	0
2	Ph	608	0	625	28	0
2	Pi	608	0	625	34	0
2	Pj	608	0	625	46	0
2	Pk	608	0	625	43	0
2	Pl	608	0	625	39	0
2	Pm	608	0	625	44	0
2	Pn	608	0	625	37	0
2	Po	608	0	625	42	0
2	Pp	608	0	625	43	0
2	Pq	608	0	625	37	0
2	Pr	608	0	625	42	0
2	Ps	608	0	625	39	0
2	Pt	608	0	625	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	Pu	608	0	625	41	0
2	Pv	608	0	625	43	0
2	Pw	608	0	625	29	0
2	Px	608	0	625	35	0
3	X0	513	0	496	16	0
3	X1	513	0	496	11	0
3	X2	513	0	496	13	0
3	X3	513	0	496	26	0
3	X4	513	0	496	23	0
3	X5	513	0	496	41	0
3	X6	513	0	495	49	0
3	X7	513	0	496	47	0
3	X8	513	0	495	67	0
3	X9	513	0	496	12	0
3	XA	513	0	496	9	0
3	XB	513	0	496	19	0
3	XC	513	0	495	55	0
3	XD	513	0	496	26	0
3	XE	513	0	496	53	0
3	XF	513	0	496	14	0
3	XG	513	0	496	11	0
3	XH	513	0	496	14	0
3	XI	513	0	496	16	0
3	XJ	513	0	496	10	0
3	XK	513	0	495	42	0
3	XL	513	0	495	44	0
3	XM	513	0	496	34	0
3	XN	513	0	496	75	0
3	XO	513	0	496	12	0
3	XP	513	0	496	9	0
3	XQ	513	0	496	18	0
3	XR	513	0	496	49	0
3	XS	513	0	496	18	0
3	XT	513	0	496	42	0
3	XU	513	0	496	14	0
3	XV	513	0	496	12	0
3	XW	513	0	496	14	0
3	XX	513	0	496	56	0
3	XY	513	0	496	41	0
3	XZ	513	0	495	39	0
3	Xa	513	0	496	49	0
3	Xb	513	0	496	25	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	Xc	513	0	495	56	0
3	Xd	513	0	496	12	0
3	Xe	513	0	496	9	0
3	Xf	513	0	496	20	0
3	Xg	513	0	496	50	0
3	Xh	513	0	496	19	0
3	Xi	513	0	496	60	0
3	Xj	513	0	496	14	0
3	Xk	513	0	496	10	0
3	Xl	513	0	496	15	0
3	Xm	513	0	496	18	0
3	Xn	513	0	496	29	0
3	Xo	513	0	496	49	0
3	Xp	513	0	496	40	0
3	Xq	513	0	496	27	0
3	Xr	513	0	495	42	0
3	Xs	513	0	496	10	0
3	Xt	513	0	496	9	0
3	Xu	513	0	496	19	0
3	Xv	513	0	495	53	0
3	Xw	513	0	496	19	0
3	Xx	513	0	496	42	0
3	Y0	980	0	956	44	0
3	Y1	980	0	956	37	0
3	Y2	980	0	956	46	0
3	Y3	980	0	956	42	0
3	Y4	980	0	956	38	0
3	Y5	980	0	956	41	0
3	Y6	980	0	956	36	0
3	Y7	980	0	956	47	0
3	Y8	980	0	956	38	0
3	Y9	980	0	956	39	0
3	YA	980	0	956	43	0
3	YB	980	0	956	42	0
3	YC	980	0	956	39	0
3	YD	980	0	956	41	0
3	YE	980	0	956	43	0
3	YF	980	0	956	46	0
3	YG	980	0	956	40	0
3	YH	980	0	956	44	0
3	YI	980	0	956	44	0
3	YJ	980	0	956	40	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	YK	980	0	956	43	0
3	YL	980	0	956	47	0
3	YM	980	0	956	48	0
3	YN	980	0	956	37	0
3	YO	980	0	956	39	0
3	YP	980	0	956	42	0
3	YQ	980	0	956	42	0
3	YR	980	0	956	43	0
3	YS	980	0	956	41	0
3	YT	980	0	956	43	0
3	YU	980	0	956	45	0
3	YV	980	0	956	36	0
3	YW	980	0	956	47	0
3	YX	980	0	956	45	0
3	YY	980	0	956	37	0
3	YZ	980	0	956	40	0
3	Ya	980	0	956	37	0
3	Yb	980	0	956	47	0
3	Yc	980	0	956	37	0
3	Yd	980	0	956	37	0
3	Ye	980	0	956	43	0
3	Yf	980	0	956	41	0
3	Yg	980	0	956	41	0
3	Yh	980	0	956	41	0
3	Yi	980	0	956	42	0
3	Yj	980	0	956	45	0
3	Yk	980	0	956	39	0
3	Yl	980	0	956	45	0
3	Ym	980	0	954	58	0
3	Yn	980	0	956	39	0
3	Yo	980	0	956	42	0
3	Yp	980	0	956	35	0
3	Yq	980	0	956	48	0
3	Yr	980	0	956	37	0
3	Ys	980	0	956	38	0
3	Yt	980	0	956	40	0
3	Yu	980	0	956	43	0
3	Yv	980	0	956	37	0
3	Yw	980	0	956	40	0
3	Yx	980	0	956	39	0
All	All	716166	0	733609	13143	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including

hydrogen atoms). The all-atom clashscore for this structure is 9.

All (13143) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dv:58:ASN:HB3	3:X8:643:TYR:CE1	1.26	1.70
1:FD:28:THR:HG22	1:DD:85:HIS:CE1	1.21	1.70
3:Xv:694:PRO:HG3	1:Jv:45:TYR:CZ	1.29	1.63
1:LN:62:ARG:CZ	3:XN:644:VAL:HG11	1.23	1.62
1:F4:29:LYS:HG3	1:D4:85:HIS:CD2	1.23	1.61
3:XX:617:SER:CB	1:Dj:79:HIS:HD2	1.14	1.60
1:D3:58:ASN:CB	3:Xc:643:TYR:HE1	1.09	1.60
3:XT:626:LEU:CD2	1:Ja:65:ALA:HB1	1.31	1.58
1:Nn:32:GLU:CA	1:Em:83:ARG:HH21	1.01	1.57
1:FD:28:THR:CG2	1:DD:85:HIS:CE1	1.86	1.57
1:DC:58:ASN:CB	3:Xr:643:TYR:HE1	0.99	1.56
1:FD:28:THR:CG2	1:DD:85:HIS:ND1	1.69	1.56
1:J7:32:GLU:CA	1:D7:83:ARG:HH21	1.11	1.55
1:JL:65:ALA:HB1	3:Xx:626:LEU:CD2	1.29	1.54
1:D3:58:ASN:HB3	3:Xc:643:TYR:CE1	1.03	1.54
1:LS:65:ALA:CB	3:XS:636:GLN:HE22	1.24	1.51
3:XE:626:LEU:CD2	1:Jg:65:ALA:HB1	1.07	1.50
3:Xi:628:THR:HB	1:Jp:79:HIS:CD2	1.47	1.49
3:Xi:626:LEU:CD2	1:Jp:65:ALA:HB1	1.07	1.49
1:J6:80:ILE:CD1	3:XN:630:ASN:ND2	1.73	1.49
3:XE:626:LEU:CD2	1:Jg:65:ALA:CB	1.88	1.49
3:XX:617:SER:CB	1:Dj:79:HIS:CD2	1.95	1.48
3:XE:628:THR:HB	1:Jg:79:HIS:CD2	1.47	1.47
1:F4:29:LYS:CG	1:D4:85:HIS:CD2	1.94	1.47
3:XE:628:THR:CB	1:Jg:79:HIS:CD2	1.98	1.46
3:Xi:626:LEU:CD2	1:Jp:65:ALA:CB	1.90	1.46
1:L8:32:GLU:CA	1:Jv:83:ARG:NH1	1.79	1.46
1:L8:32:GLU:CA	1:Jv:83:ARG:HH12	1.29	1.45
1:DC:58:ASN:HB3	3:Xr:643:TYR:CE1	0.94	1.45
1:LS:65:ALA:HB1	3:XS:636:GLN:NE2	1.17	1.42
3:XX:617:SER:HB2	1:Dj:79:HIS:CD2	1.53	1.41
1:L7:62:ARG:NH2	3:X7:644:VAL:HG21	1.32	1.41
1:FD:28:THR:HG22	1:DD:85:HIS:ND1	1.23	1.40
3:Xi:628:THR:CB	1:Jp:79:HIS:CD2	2.03	1.40
1:FS:17:LEU:CD2	1:DS:39:GLN:NE2	1.85	1.40
1:Fb:18:VAL:CG1	1:Db:11:MET:HE2	1.51	1.40
3:XZ:616:ILE:HG21	1:DI:80:ILE:CD1	1.51	1.39
1:Dv:58:ASN:CB	3:X8:643:TYR:HE1	1.33	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J2:62:ARG:NH1	3:Xg:622:ASP:O	1.56	1.38
3:XE:626:LEU:HD23	1:Jg:65:ALA:CB	1.47	1.38
1:Nn:32:GLU:HA	1:Em:83:ARG:NH2	1.08	1.38
1:F4:29:LYS:CA	1:D4:85:HIS:NE2	1.72	1.37
1:DX:55:GLY:CA	3:Xo:643:TYR:OH	1.69	1.37
1:N4:29:LYS:O	1:Db:29:LYS:NZ	1.58	1.37
1:DW:55:GLY:CA	3:Xp:643:TYR:OH	1.71	1.37
1:J6:80:ILE:HD12	3:XN:630:ASN:ND2	1.09	1.37
1:F4:28:THR:CG2	1:D4:85:HIS:HD1	1.38	1.36
3:X6:621:VAL:CG2	1:DQ:58:ASN:ND2	1.87	1.36
1:D0:79:HIS:HA	3:XR:617:SER:O	1.21	1.35
1:LN:62:ARG:NH2	3:XN:644:VAL:CG2	1.88	1.35
3:Xi:626:LEU:HD23	1:Jp:65:ALA:CB	1.52	1.35
3:XL:726:GLY:HA2	1:FL:79:HIS:CE1	1.61	1.35
1:LN:62:ARG:NH2	3:XN:644:VAL:HG21	1.39	1.35
3:XE:628:THR:OG1	1:Jg:79:HIS:CG	1.76	1.34
1:DB:79:HIS:CA	3:Xv:617:SER:O	1.75	1.34
3:XC:616:ILE:HG21	1:Du:80:ILE:CD1	1.56	1.34
1:Ev:83:ARG:O	1:D7:29:LYS:NZ	1.56	1.34
1:EC:79:HIS:CE1	1:Dq:22:GLU:OE1	1.78	1.34
1:L7:62:ARG:CZ	3:X7:644:VAL:HG21	1.54	1.34
1:EX:79:HIS:NE2	1:Dn:22:GLU:OE1	1.59	1.33
1:Fn:28:THR:CG2	1:Dn:85:HIS:ND1	1.91	1.33
3:XL:643:TYR:CE1	1:Dl:55:GLY:O	1.81	1.32
3:Xi:628:THR:OG1	1:Jp:79:HIS:CG	1.81	1.32
1:Fb:18:VAL:HA	1:Db:11:MET:CE	1.58	1.32
1:LN:62:ARG:CZ	3:XN:644:VAL:CG1	2.07	1.32
3:Xi:628:THR:OG1	1:Jp:79:HIS:CB	1.76	1.32
1:Fb:18:VAL:HG22	1:Db:11:MET:CE	1.57	1.32
3:XC:616:ILE:CG2	1:Du:80:ILE:HD12	1.61	1.30
3:XC:617:SER:O	1:Du:79:HIS:HA	1.14	1.30
1:L7:62:ARG:NH2	3:X7:644:VAL:CG2	1.93	1.29
3:XK:616:ILE:HG21	1:Dm:80:ILE:CD1	1.60	1.29
3:XL:643:TYR:HE1	1:Dl:55:GLY:O	1.02	1.29
1:JL:79:HIS:CD2	3:Xx:628:THR:HB	1.66	1.29
1:D0:55:GLY:CA	3:XR:643:TYR:OH	1.81	1.28
3:XC:622:ASP:O	1:Ju:62:ARG:NH1	1.63	1.28
1:Fn:28:THR:HG21	1:Dn:85:HIS:ND1	1.47	1.28
1:Jw:30:ALA:O	1:Dw:82:ALA:HB3	1.15	1.28
1:Fb:18:VAL:CG2	1:Db:13:GLU:HG3	1.61	1.28
1:Ev:85:HIS:ND1	1:D7:28:THR:CG2	1.97	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XE:628:THR:OG1	1:Jg:79:HIS:CB	1.82	1.27
1:D2:55:GLY:CA	3:Xg:643:TYR:OH	1.80	1.27
1:Fb:18:VAL:HG23	1:Db:13:GLU:CG	1.61	1.27
1:Aq:69:GLU:O	3:Yj:841:PRO:HG3	1.35	1.27
1:A2:69:GLU:O	3:Y5:841:PRO:HG3	1.35	1.27
1:Fn:17:LEU:CD2	1:Dn:39:GLN:NE2	1.97	1.27
3:X6:621:VAL:HG22	1:DQ:58:ASN:ND2	1.44	1.26
3:XT:628:THR:HB	1:Ja:79:HIS:CD2	1.70	1.26
1:EX:79:HIS:CE1	1:Dn:22:GLU:OE1	1.87	1.26
1:Lc:62:ARG:HB3	3:Xc:633:GLY:C	1.58	1.26
3:Xv:694:PRO:HG3	1:Jv:45:TYR:CE2	1.66	1.26
3:XT:626:LEU:CD2	1:Ja:65:ALA:CB	2.12	1.26
1:JL:65:ALA:CB	3:Xx:626:LEU:CD2	2.12	1.26
3:XE:627:VAL:CG1	1:Jg:80:ILE:HD12	1.64	1.26
1:D3:79:HIS:HA	3:Xc:617:SER:O	1.31	1.26
1:JX:62:ARG:NH2	3:Xo:624:SER:HB2	1.49	1.26
1:Dv:58:ASN:ND2	3:X8:621:VAL:HG22	1.47	1.26
1:LN:62:ARG:NH2	3:XN:644:VAL:CG1	1.99	1.26
1:AW:69:GLU:O	3:YZ:841:PRO:HG3	1.35	1.25
1:ER:76:VAL:HG13	1:D4:73:ASP:OD1	1.30	1.25
3:XZ:616:ILE:CG2	1:DI:80:ILE:HD12	1.64	1.25
1:Fn:34:ARG:HA	1:Dn:87:GLU:OE2	1.33	1.25
1:JR:62:ARG:CZ	3:X5:624:SER:HB2	1.65	1.25
1:FS:28:THR:HG21	1:DS:87:GLU:CB	1.65	1.25
3:XT:628:THR:CB	1:Ja:79:HIS:CD2	2.20	1.25
1:JX:62:ARG:CZ	3:Xo:624:SER:HB2	1.66	1.25
3:XZ:624:SER:HB2	1:JI:62:ARG:CZ	1.63	1.25
1:JL:79:HIS:CD2	3:Xx:628:THR:CB	2.20	1.24
1:J7:32:GLU:HA	1:D7:83:ARG:NH2	0.92	1.24
1:Ea:79:HIS:CE1	1:DS:22:GLU:OE1	1.89	1.24
1:D0:55:GLY:HA2	3:XR:643:TYR:OH	1.09	1.24
1:J6:80:ILE:CD1	3:XN:630:ASN:HD22	1.38	1.24
1:J6:79:HIS:CD2	3:XN:628:THR:CG2	2.21	1.24
1:Ev:85:HIS:CE1	1:D7:28:THR:HG22	1.73	1.23
1:F4:28:THR:CG2	1:D4:87:GLU:HG3	1.68	1.23
2:PQ:14:ASN:HD21	2:PR:76:ILE:CG1	1.52	1.23
1:DW:55:GLY:HA2	3:Xp:643:TYR:CZ	1.74	1.23
1:Ab:69:GLU:O	3:YU:841:PRO:HG3	1.35	1.23
1:AQ:69:GLU:O	3:YT:841:PRO:HG3	1.35	1.23
1:AM:69:GLU:O	3:YF:841:PRO:HG3	1.35	1.23
2:Pq:14:ASN:HD21	2:Pr:76:ILE:CG1	1.52	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XX:616:ILE:CG2	1:Dj:80:ILE:HD12	1.67	1.23
1:Lc:62:ARG:HD3	3:Xc:634:GLU:CA	1.68	1.23
2:Pu:14:ASN:HD21	2:Pv:76:ILE:CG1	1.52	1.23
2:PM:14:ASN:HD21	2:PN:76:ILE:CG1	1.52	1.22
1:Fn:35:LEU:H	1:Dn:87:GLU:CD	1.48	1.22
1:LN:62:ARG:NH2	3:XN:644:VAL:HG11	1.54	1.22
3:XK:624:SER:HB2	1:Jm:62:ARG:NH2	1.52	1.22
2:PB:14:ASN:HD21	2:PC:76:ILE:CG1	1.52	1.22
3:XC:617:SER:O	1:Du:79:HIS:CA	1.85	1.22
3:XC:624:SER:HB2	1:Ju:62:ARG:NH2	1.55	1.22
2:P2:14:ASN:HD21	2:P3:76:ILE:CG1	1.52	1.22
2:PH:14:ASN:HD21	2:PI:76:ILE:CG1	1.52	1.22
2:PW:14:ASN:HD21	2:PX:76:ILE:CG1	1.52	1.22
1:AD:69:GLU:O	3:YB:841:PRO:HG3	1.39	1.22
1:AJ:69:GLU:O	3:YH:841:PRO:HG3	1.39	1.22
3:Xv:694:PRO:CG	1:Jv:45:TYR:CZ	2.22	1.22
1:EC:79:HIS:NE2	1:Dq:22:GLU:OE1	1.71	1.22
3:XE:628:THR:OG1	1:Jg:79:HIS:CD2	1.90	1.22
1:A5:69:GLU:O	3:Y3:841:PRO:HG3	1.39	1.22
1:Aw:69:GLU:O	3:Yu:841:PRO:HG3	1.39	1.22
3:XC:621:VAL:HG22	1:Du:58:ASN:ND2	1.53	1.21
1:DX:55:GLY:HA2	3:Xo:643:TYR:CZ	1.74	1.21
1:An:69:GLU:O	3:Yl:841:PRO:HG3	1.39	1.21
1:D2:79:HIS:HA	3:Xg:617:SER:O	1.07	1.21
3:XK:624:SER:HB2	1:Jm:62:ARG:CZ	1.69	1.21
1:Af:69:GLU:O	3:Yi:841:PRO:HG3	1.35	1.21
1:Ev:85:HIS:ND1	1:D7:28:THR:HG21	1.52	1.21
1:Jn:62:ARG:NH1	3:XY:622:ASP:O	1.73	1.21
1:D2:55:GLY:HA2	3:Xg:643:TYR:OH	1.12	1.21
1:AT:69:GLU:O	3:YR:841:PRO:HG3	1.39	1.21
1:Ah:69:GLU:O	3:Yf:841:PRO:HG3	1.39	1.21
1:Aj:69:GLU:O	3:Yr:841:PRO:HG3	1.39	1.21
1:DC:80:ILE:HD12	3:Xr:616:ILE:CG2	1.71	1.21
1:Al:69:GLU:O	3:Yo:841:PRO:HG3	1.35	1.21
1:F4:28:THR:HG21	1:D4:87:GLU:CG	1.71	1.21
2:P7:14:ASN:HD21	2:P8:76:ILE:CG1	1.52	1.21
1:DX:55:GLY:C	3:Xo:643:TYR:OH	1.77	1.21
2:Pb:14:ASN:HD21	2:Pc:76:ILE:CG1	1.52	1.21
1:Au:69:GLU:O	3:Yx:841:PRO:HG3	1.35	1.21
3:XE:627:VAL:CG1	1:Jg:80:ILE:CD1	2.19	1.20
1:AY:69:GLU:O	3:YW:841:PRO:HG3	1.39	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:76:VAL:CG1	1:Dq:73:ASP:OD1	1.88	1.20
1:L8:32:GLU:HA	1:Jv:83:ARG:NH1	0.89	1.20
1:FS:17:LEU:CD2	1:DS:39:GLN:HE22	1.48	1.20
1:Lc:62:ARG:CD	3:Xc:634:GLU:HA	1.70	1.20
1:AE:69:GLU:O	3:YC:841:PRO:HG3	1.39	1.20
1:A0:69:GLU:O	3:Y8:841:PRO:HG3	1.39	1.20
3:XT:626:LEU:HD23	1:Ja:65:ALA:CB	1.67	1.20
1:AK:69:GLU:O	3:YI:841:PRO:HG3	1.39	1.20
2:Pp:14:ASN:HD21	2:Pq:76:ILE:HG13	1.04	1.20
1:AB:69:GLU:O	3:YE:841:PRO:HG3	1.35	1.20
1:AF:69:GLU:O	3:YN:841:PRO:HG3	1.39	1.20
2:Pf:14:ASN:HD21	2:Pg:76:ILE:CG1	1.52	1.20
1:Ad:69:GLU:O	3:Yb:841:PRO:HG3	1.39	1.20
1:Fb:18:VAL:CB	1:Db:11:MET:HE2	1.71	1.20
1:J6:62:ARG:NH1	3:XN:620:SER:OG	1.73	1.20
1:F4:28:THR:HG22	1:D4:85:HIS:HD1	1.04	1.19
1:A7:69:GLU:O	3:Y0:841:PRO:HG3	1.35	1.19
1:A9:69:GLU:O	3:Y7:841:PRO:HG3	1.39	1.19
1:JL:65:ALA:CB	3:Xx:626:LEU:HD23	1.69	1.19
1:Ax:69:GLU:O	3:Yv:841:PRO:HG3	1.39	1.19
2:Pl:14:ASN:HD21	2:Pm:76:ILE:CG1	1.52	1.19
1:AH:69:GLU:O	3:YK:841:PRO:HG3	1.35	1.19
2:PX:14:ASN:HD21	2:PY:76:ILE:HG13	1.03	1.19
3:Xi:626:LEU:HD22	1:Jp:65:ALA:CB	1.61	1.19
2:Pm:14:ASN:HD21	2:Pn:76:ILE:HG13	1.04	1.19
3:XK:616:ILE:CG2	1:Dm:80:ILE:HD12	1.73	1.19
1:AO:69:GLU:O	3:YM:841:PRO:HG3	1.39	1.19
1:DW:55:GLY:O	3:Xp:643:TYR:HE1	1.21	1.19
1:L5:80:ILE:HD12	3:X5:638:ILE:HG21	1.20	1.19
1:DX:80:ILE:CD1	3:Xo:616:ILE:HG21	1.72	1.19
1:Fb:35:LEU:CD2	1:Db:91:ILE:HG21	1.72	1.19
1:FJ:35:LEU:CB	1:DJ:87:GLU:OE1	1.91	1.18
3:Xi:627:VAL:CG1	1:Jp:80:ILE:HD12	1.72	1.18
1:Lc:62:ARG:HB3	3:Xc:633:GLY:O	1.38	1.18
1:Ai:69:GLU:O	3:Yg:841:PRO:HG3	1.39	1.18
1:AU:69:GLU:O	3:Yc:841:PRO:HG3	1.39	1.18
1:As:69:GLU:O	3:Yq:841:PRO:HG3	1.39	1.18
1:J6:79:HIS:CD2	3:XN:628:THR:HG23	1.77	1.18
3:XX:616:ILE:HG21	1:Dj:80:ILE:CD1	1.73	1.18
1:DC:80:ILE:CD1	3:Xr:616:ILE:HG21	1.74	1.18
1:D0:73:ASP:OD2	1:EQ:45:TYR:OH	1.59	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Eg:85:HIS:CD2	1:DD:28:THR:HG22	1.79	1.18
2:Pg:14:ASN:HD21	2:Ph:76:ILE:HG13	1.03	1.18
2:Pc:14:ASN:HD21	2:Pd:76:ILE:HG13	1.03	1.18
1:DB:61:VAL:HG12	3:Xv:616:ILE:HD12	1.25	1.18
1:EW:85:HIS:CE1	1:EW:87:GLU:HG3	1.78	1.18
1:Fb:18:VAL:CA	1:Db:11:MET:HE1	1.73	1.18
1:Ao:69:GLU:O	3:Ym:841:PRO:HG3	1.39	1.18
1:FJ:35:LEU:HB3	1:DJ:87:GLU:OE1	1.44	1.17
1:Fn:28:THR:CG2	1:Dn:85:HIS:CE1	2.26	1.17
1:AS:69:GLU:O	3:YQ:841:PRO:HG3	1.39	1.17
2:PL:14:ASN:HD21	2:PM:76:ILE:HG13	1.03	1.17
1:AN:69:GLU:O	3:YL:841:PRO:HG3	1.45	1.17
1:AZ:69:GLU:O	3:YX:841:PRO:HG3	1.39	1.17
1:DW:55:GLY:O	3:Xp:643:TYR:CE1	1.96	1.17
1:Av:69:GLU:O	3:Yt:841:PRO:HG3	1.45	1.17
1:DB:79:HIS:HA	3:Xv:617:SER:O	1.00	1.17
1:L8:65:ALA:C	3:X8:636:GLN:NE2	2.03	1.17
1:ER:79:HIS:NE2	1:D4:22:GLU:OE1	1.78	1.17
1:La:83:ARG:NH2	1:DH:32:GLU:HG3	1.57	1.17
1:A4:69:GLU:O	3:Y2:841:PRO:HG3	1.39	1.17
2:P3:14:ASN:HD21	2:P4:76:ILE:HG13	1.03	1.17
1:Fb:18:VAL:CG2	1:Db:13:GLU:CG	2.18	1.17
1:Fb:18:VAL:HG21	1:Db:13:GLU:HG3	1.22	1.17
3:Xi:628:THR:OG1	1:Jp:79:HIS:CA	1.92	1.16
1:Fb:18:VAL:CG2	1:Db:11:MET:CE	2.23	1.16
1:Fb:35:LEU:HD21	1:Db:91:ILE:HG21	1.17	1.16
1:Ev:84:VAL:HA	1:D7:25:ASP:OD2	1.46	1.16
1:Ep:79:HIS:NE2	1:Dh:22:GLU:OE1	1.78	1.16
3:XX:617:SER:HB3	1:Dj:79:HIS:CD2	1.63	1.16
3:XC:616:ILE:CD1	1:Du:61:VAL:HG12	1.76	1.16
1:J4:30:ALA:O	1:D4:82:ALA:HB3	1.43	1.16
1:JS:62:ARG:CZ	3:Xb:624:SER:HB2	1.73	1.16
2:P1:76:ILE:CG1	2:P5:14:ASN:HD21	1.59	1.16
1:F7:35:LEU:CD2	1:D7:91:ILE:HG21	1.76	1.16
3:XK:643:TYR:OH	1:Dm:54:THR:O	1.58	1.16
1:A3:69:GLU:O	3:Y1:841:PRO:HG3	1.45	1.16
1:D2:79:HIS:CA	3:Xg:617:SER:O	1.93	1.16
2:P6:76:ILE:CG1	2:P0:14:ASN:HD21	1.59	1.16
1:FD:28:THR:HG21	1:DD:85:HIS:ND1	1.57	1.15
1:AR:69:GLU:O	3:YP:841:PRO:HG3	1.45	1.15
1:JL:79:HIS:CB	3:Xx:628:THR:OG1	1.93	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AX:69:GLU:O	3:YV:841:PRO:HG3	1.45	1.15
3:XZ:624:SER:HB2	1:JI:62:ARG:NH2	1.59	1.15
2:Pa:76:ILE:CG1	2:PU:14:ASN:HD21	1.59	1.15
1:At:69:GLU:O	3:Yw:841:PRO:HG3	1.46	1.15
2:Pr:14:ASN:HD21	2:Ps:76:ILE:HG13	1.03	1.15
3:XC:621:VAL:CG2	1:Du:58:ASN:ND2	2.09	1.15
1:D2:58:ASN:HD21	3:Xg:621:VAL:HG22	1.03	1.15
1:A8:69:GLU:O	3:Y6:841:PRO:HG3	1.45	1.15
2:PP:76:ILE:CG1	2:PT:14:ASN:HD21	1.59	1.15
2:PO:14:ASN:HD21	2:PF:76:ILE:CG1	1.60	1.15
1:Fb:18:VAL:CG2	1:Db:11:MET:HE3	1.76	1.15
1:Dv:80:ILE:HD12	3:X8:616:ILE:CG2	1.75	1.15
2:Pt:76:ILE:CG1	2:Px:14:ASN:HD21	1.59	1.15
1:Fn:35:LEU:N	1:Dn:87:GLU:OE1	1.78	1.15
1:F4:28:THR:HG22	1:D4:85:HIS:ND1	1.62	1.15
1:FS:17:LEU:HD21	1:DS:39:GLN:NE2	1.50	1.15
2:PL:76:ILE:CG1	2:PF:14:ASN:HD21	1.59	1.15
2:PY:14:ASN:HD21	2:PZ:76:ILE:CG1	1.60	1.15
1:Ac:69:GLU:O	3:Ya:841:PRO:HG3	1.45	1.15
1:Jb:62:ARG:NH1	3:X4:622:ASP:O	1.79	1.15
1:Ev:88:VAL:HG21	1:D7:25:ASP:CA	1.76	1.15
3:XC:616:ILE:CG2	1:Du:80:ILE:CD1	2.20	1.15
2:P9:14:ASN:HD21	2:P0:76:ILE:CG1	1.60	1.15
2:PG:14:ASN:HD21	2:PH:76:ILE:HG13	1.04	1.15
1:DW:73:ASP:OD2	1:Ej:45:TYR:OH	1.65	1.15
2:Pp:76:ILE:CG1	2:Pj:14:ASN:HD21	1.59	1.15
1:AC:69:GLU:O	3:YA:841:PRO:HG3	1.45	1.15
1:A1:69:GLU:O	3:Y4:841:PRO:HG3	1.46	1.15
1:EM:45:TYR:OH	1:D6:73:ASP:OD2	1.65	1.15
2:PA:14:ASN:HD21	2:PB:76:ILE:HG13	1.03	1.14
2:P4:14:ASN:HD21	2:P5:76:ILE:CG1	1.60	1.14
3:XT:628:THR:OG1	1:Ja:79:HIS:CG	1.98	1.14
1:AI:69:GLU:O	3:YG:841:PRO:HG3	1.45	1.14
2:PV:76:ILE:CG1	2:PZ:14:ASN:HD21	1.59	1.14
1:Ev:88:VAL:CG2	1:D7:25:ASP:HA	1.76	1.14
1:AL:69:GLU:O	3:YO:841:PRO:HG3	1.46	1.14
1:Aa:69:GLU:O	3:Yd:841:PRO:HG3	1.46	1.14
1:Fw:72:GLY:HA2	1:Dw:77:ALA:HB2	1.23	1.14
2:PG:76:ILE:CG1	2:PK:14:ASN:HD21	1.59	1.14
1:DF:7:ILE:HD11	1:JF:32:GLU:HB2	1.21	1.14
2:PA:76:ILE:CG1	2:PE:14:ASN:HD21	1.59	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E6:45:TYR:OH	1:DM:73:ASP:OD2	1.66	1.14
2:PJ:14:ASN:HD21	2:PK:76:ILE:CG1	1.60	1.14
2:PL:76:ILE:HG13	2:PF:14:ASN:HD21	0.98	1.14
3:XL:621:VAL:CG2	1:Dl:58:ASN:ND2	2.11	1.14
1:Fw:35:LEU:HD21	1:Dw:91:ILE:HG21	1.20	1.14
2:Pt:14:ASN:HD21	2:Pu:76:ILE:HG13	1.03	1.14
1:D2:73:ASP:OD2	1:Ef:45:TYR:OH	1.63	1.13
3:XT:628:THR:OG1	1:Ja:79:HIS:CD2	2.01	1.13
1:JL:79:HIS:CG	3:Xx:628:THR:OG1	2.00	1.13
1:Eg:85:HIS:CG	1:DD:28:THR:CG2	2.31	1.13
2:Ps:14:ASN:HD21	2:Pj:76:ILE:CG1	1.60	1.13
3:Xi:627:VAL:CG1	1:Jp:80:ILE:CD1	2.26	1.13
1:AV:69:GLU:O	3:YY:841:PRO:HG3	1.46	1.13
2:PV:76:ILE:HG13	2:PZ:14:ASN:HD21	0.98	1.13
3:XZ:616:ILE:HG21	1:DI:80:ILE:HD11	1.24	1.13
1:Ak:69:GLU:O	3:Yn:841:PRO:HG3	1.46	1.13
2:Pd:14:ASN:HD21	2:PU:76:ILE:CG1	1.60	1.13
1:Am:69:GLU:O	3:Yk:841:PRO:HG3	1.45	1.13
1:DC:58:ASN:HB3	3:Xr:643:TYR:CD1	1.83	1.13
1:DC:80:ILE:HD12	3:Xr:616:ILE:HG21	1.20	1.13
1:JM:62:ARG:CZ	3:X7:624:SER:HB2	1.78	1.13
1:Ag:69:GLU:O	3:Ye:841:PRO:HG3	1.45	1.13
1:Ar:69:GLU:O	3:Yp:841:PRO:HG3	1.45	1.13
2:P6:14:ASN:HD21	2:P7:76:ILE:HG13	1.03	1.13
2:PR:14:ASN:HD21	2:PS:76:ILE:HG13	1.03	1.12
1:AG:69:GLU:O	3:YJ:841:PRO:HG3	1.46	1.12
1:Ae:69:GLU:O	3:Yh:841:PRO:HG3	1.46	1.12
1:Fb:28:THR:CG2	1:Db:87:GLU:OE1	1.97	1.12
1:Dv:58:ASN:ND2	3:X8:621:VAL:CG2	2.10	1.13
1:Fh:40:PHE:CZ	1:Dh:39:GLN:OE1	2.02	1.13
2:Pe:76:ILE:CG1	2:Pi:14:ASN:HD21	1.59	1.12
2:Pt:76:ILE:HG13	2:Px:14:ASN:HD21	0.98	1.12
2:Pk:76:ILE:CG1	2:Po:14:ASN:HD21	1.59	1.12
3:Xi:628:THR:OG1	1:Jp:79:HIS:CD2	1.99	1.12
1:Ep:45:TYR:OH	1:Dh:73:ASP:OD2	1.63	1.12
1:AA:69:GLU:O	3:YD:841:PRO:HG3	1.46	1.12
1:AP:69:GLU:O	3:YS:841:PRO:HG3	1.46	1.12
1:ES:45:TYR:OH	1:Da:73:ASP:OD2	1.68	1.12
3:Xi:627:VAL:HG12	1:Jp:80:ILE:HD12	1.28	1.12
3:Xi:628:THR:CB	1:Jp:79:HIS:HD2	1.49	1.12
2:Pa:76:ILE:HG13	2:PU:14:ASN:HD21	0.98	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pn:14:ASN:HD21	2:Po:76:ILE:CG1	1.60	1.12
2:PN:14:ASN:HD21	2:PO:76:ILE:HG13	1.03	1.12
1:EX:85:HIS:CG	1:Dn:28:THR:HG21	1.84	1.12
1:Ap:69:GLU:O	3:Ys:841:PRO:HG3	1.46	1.12
1:Fb:18:VAL:CB	1:Db:11:MET:CE	2.28	1.12
1:Jw:30:ALA:O	1:Dw:82:ALA:CB	1.98	1.12
3:XE:628:THR:OG1	1:Jg:79:HIS:CA	1.98	1.11
2:Pd:14:ASN:HD21	2:PU:76:ILE:HG13	0.98	1.11
2:Pp:76:ILE:HG13	2:Pj:14:ASN:HD21	0.98	1.11
2:Ps:14:ASN:HD21	2:Pj:76:ILE:HG13	0.98	1.11
3:XC:616:ILE:HG21	1:Du:80:ILE:HD11	1.31	1.11
2:PV:14:ASN:HD21	2:PW:76:ILE:HG13	1.03	1.11
1:E7:90:ASN:HB3	1:Dv:97:GLN:HA	1.30	1.11
3:XK:616:ILE:HG21	1:Dm:80:ILE:HD12	1.23	1.11
1:Nn:30:ALA:O	1:Em:82:ALA:HB3	1.47	1.11
1:JR:62:ARG:HG2	3:X5:627:VAL:HG21	1.27	1.11
1:EX:85:HIS:CG	1:Dn:28:THR:CG2	2.34	1.11
1:Dv:80:ILE:CD1	3:X8:616:ILE:HG21	1.81	1.11
1:DB:73:ASP:OD2	1:Eu:45:TYR:OH	1.69	1.11
2:P1:76:ILE:HG13	2:P5:14:ASN:HD21	0.98	1.11
1:A6:69:GLU:O	3:Y9:841:PRO:HG3	1.46	1.11
2:P8:14:ASN:HD21	2:P9:76:ILE:HG13	1.03	1.11
1:DH:79:HIS:CD2	3:Xa:617:SER:C	2.14	1.11
1:DC:54:THR:O	3:Xr:643:TYR:OH	1.61	1.10
1:D3:73:ASP:OD2	1:Eb:45:TYR:OH	1.69	1.10
2:PP:76:ILE:HG13	2:PT:14:ASN:HD21	0.98	1.10
2:PJ:14:ASN:HD21	2:PK:76:ILE:HG13	0.98	1.10
1:JL:79:HIS:HD2	3:Xx:628:THR:CB	1.60	1.10
1:DW:55:GLY:HA2	3:Xp:643:TYR:OH	0.93	1.10
1:DC:58:ASN:CB	3:Xr:643:TYR:CE1	1.87	1.10
3:X6:621:VAL:HG21	1:DQ:58:ASN:ND2	1.62	1.10
1:Hf:62:ARG:HG2	3:Yi:848:ILE:CD1	1.82	1.10
1:Dv:58:ASN:HB3	3:X8:643:TYR:CD1	1.85	1.10
1:Fn:28:THR:HG22	1:Dn:85:HIS:ND1	1.66	1.10
1:Hl:62:ARG:HG2	3:Yo:848:ILE:CD1	1.82	1.10
1:Ho:62:ARG:HG2	3:Ym:848:ILE:CD1	1.82	1.10
2:Pn:14:ASN:HD21	2:Po:76:ILE:HG13	0.98	1.10
1:HB:62:ARG:HG2	3:YE:848:ILE:CD1	1.82	1.10
2:P1:14:ASN:HD21	2:P2:76:ILE:CG1	1.65	1.10
1:ER:91:ILE:HG21	1:D4:35:LEU:HD21	1.17	1.10
1:HH:62:ARG:HG2	3:YK:848:ILE:CD1	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PN:14:ASN:HD21	2:PO:76:ILE:CG1	1.65	1.10
1:Hi:62:ARG:HG2	3:Yg:848:ILE:CD1	1.82	1.10
2:Pe:76:ILE:HG13	2:Pi:14:ASN:HD21	0.98	1.10
1:Hu:62:ARG:HG2	3:Yx:848:ILE:CD1	1.82	1.10
2:Pk:76:ILE:HG13	2:Po:14:ASN:HD21	0.98	1.10
1:H7:62:ARG:HG2	3:Y0:848:ILE:CD1	1.82	1.10
1:DX:54:THR:O	3:Xo:643:TYR:OH	1.67	1.10
1:Lc:62:ARG:CB	3:Xc:633:GLY:O	1.99	1.10
2:Pa:14:ASN:HD21	2:Pb:76:ILE:HG13	1.03	1.10
1:Fn:17:LEU:HD21	1:Dn:39:GLN:NE2	1.57	1.10
1:H2:62:ARG:HG2	3:Y5:848:ILE:CD1	1.82	1.10
1:H5:62:ARG:HG2	3:Y3:848:ILE:CD1	1.82	1.10
2:P1:14:ASN:HD21	2:P2:76:ILE:HG13	1.03	1.10
2:P8:14:ASN:HD21	2:P9:76:ILE:CG1	1.65	1.10
1:HT:62:ARG:HG2	3:YR:848:ILE:CD1	1.82	1.10
2:PP:14:ASN:HD21	2:PQ:76:ILE:CG1	1.65	1.10
1:HF:62:ARG:HG2	3:YN:848:ILE:CD1	1.82	1.10
1:DW:58:ASN:ND2	3:Xp:621:VAL:CG2	2.15	1.10
1:Et:62:ARG:HB3	3:Yt:732:HIS:NE2	1.67	1.10
1:Fn:71:VAL:HG22	3:XY:617:SER:OG	1.52	1.10
1:Hj:62:ARG:HG2	3:Yr:848:ILE:CD1	1.82	1.10
3:XE:628:THR:HG1	1:Jg:79:HIS:CA	1.65	1.09
1:F4:28:THR:HG23	1:D4:87:GLU:HG3	1.26	1.09
3:XT:628:THR:OG1	1:Ja:79:HIS:CB	2.00	1.09
1:HM:62:ARG:HG2	3:YF:848:ILE:CD1	1.82	1.09
1:DX:55:GLY:HA2	3:Xo:643:TYR:OH	1.44	1.09
1:HZ:62:ARG:HG2	3:YX:848:ILE:CD1	1.82	1.09
1:HU:62:ARG:HG2	3:Yc:848:ILE:CD1	1.82	1.09
2:Pc:14:ASN:HD21	2:Pd:76:ILE:CG1	1.65	1.09
1:Hq:62:ARG:HG2	3:Yj:848:ILE:CD1	1.82	1.09
2:Pr:14:ASN:HD21	2:Ps:76:ILE:CG1	1.65	1.09
3:XC:621:VAL:HG22	1:Du:58:ASN:HD21	1.02	1.09
1:HQ:62:ARG:HG2	3:YT:848:ILE:CD1	1.82	1.09
2:PQ:14:ASN:ND2	2:PR:76:ILE:HG13	1.68	1.09
1:FJ:22:GLU:HB2	1:DJ:79:HIS:HE2	0.95	1.09
1:Ee:62:ARG:HB3	3:Ye:732:HIS:NE2	1.67	1.09
1:HW:62:ARG:HG2	3:YZ:848:ILE:CD1	1.82	1.09
2:PY:14:ASN:HD21	2:PZ:76:ILE:HG13	0.98	1.09
2:Pv:14:ASN:HD21	2:Pw:76:ILE:HG13	1.04	1.09
1:Fh:40:PHE:HZ	1:Dh:39:GLN:OE1	1.30	1.09
3:XE:628:THR:HG1	1:Jg:79:HIS:HA	1.12	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F4:28:THR:CG2	1:D4:87:GLU:CG	2.29	1.09
1:EP:62:ARG:HB3	3:YP:732:HIS:NE2	1.67	1.09
2:PP:14:ASN:HD21	2:PQ:76:ILE:HG13	1.03	1.09
1:Hb:62:ARG:HG2	3:YU:848:ILE:CD1	1.82	1.09
1:Nn:31:ALA:O	1:Em:83:ARG:NH2	1.84	1.09
1:L7:62:ARG:HH21	3:X7:644:VAL:CG2	1.60	1.09
3:XK:627:VAL:HG21	1:Jm:62:ARG:HG2	1.35	1.09
1:JL:79:HIS:CD2	3:Xx:628:THR:OG1	2.06	1.09
1:EX:85:HIS:ND1	1:Dn:28:THR:HG21	1.68	1.09
2:PX:14:ASN:HD21	2:PY:76:ILE:CG1	1.65	1.09
1:Ev:88:VAL:HG21	1:D7:25:ASP:HA	1.09	1.09
2:Pp:14:ASN:HD21	2:Pq:76:ILE:CG1	1.65	1.09
2:P6:76:ILE:HG13	2:P0:14:ASN:HD21	0.98	1.09
2:PR:14:ASN:HD21	2:PS:76:ILE:CG1	1.65	1.09
2:PI:14:ASN:HD21	2:PJ:76:ILE:CG1	1.65	1.09
1:J6:62:ARG:NH2	3:XN:624:SER:HB2	1.66	1.09
2:PC:14:ASN:HD21	2:PD:76:ILE:CG1	1.65	1.08
3:XE:626:LEU:HD22	1:Jg:65:ALA:CB	1.63	1.08
2:P3:14:ASN:HD21	2:P4:76:ILE:CG1	1.65	1.08
2:P6:14:ASN:HD21	2:P7:76:ILE:CG1	1.65	1.08
2:PV:14:ASN:HD21	2:PW:76:ILE:CG1	1.65	1.08
2:Pa:14:ASN:HD21	2:Pb:76:ILE:CG1	1.65	1.08
1:Fn:28:THR:HG22	1:Dn:85:HIS:CE1	1.86	1.08
2:PC:14:ASN:HD21	2:PD:76:ILE:HG13	1.03	1.08
3:XC:616:ILE:HD12	1:Du:61:VAL:HG12	1.08	1.08
2:PI:14:ASN:HD21	2:PJ:76:ILE:HG13	1.03	1.08
2:PL:14:ASN:HD21	2:PM:76:ILE:CG1	1.65	1.08
2:Pb:14:ASN:HD21	2:Pc:76:ILE:HG13	0.91	1.08
1:Dv:58:ASN:CB	3:X8:643:TYR:CE1	2.15	1.08
1:Ev:85:HIS:CG	1:D7:28:THR:CG2	2.36	1.08
1:Hx:62:ARG:HG2	3:Yv:848:ILE:CD1	1.82	1.08
2:Pv:14:ASN:HD21	2:Pw:76:ILE:CG1	1.65	1.08
2:Pq:14:ASN:ND2	2:Pr:76:ILE:HG13	1.68	1.08
1:EA:62:ARG:HB3	3:YA:732:HIS:NE2	1.67	1.08
1:HE:62:ARG:HG2	3:YC:848:ILE:CD1	1.82	1.08
2:PB:14:ASN:ND2	2:PC:76:ILE:HG13	1.68	1.08
3:XE:626:LEU:HD22	1:Jg:65:ALA:HB3	1.33	1.08
2:P4:14:ASN:HD21	2:P5:76:ILE:HG13	0.98	1.08
1:HK:62:ARG:HG2	3:YI:848:ILE:CD1	1.82	1.08
2:PH:14:ASN:ND2	2:PI:76:ILE:HG13	1.68	1.08
2:PO:14:ASN:HD21	2:PF:76:ILE:HG13	0.98	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pg:14:ASN:HD21	2:Ph:76:ILE:CG1	1.65	1.08
1:La:83:ARG:HH21	1:DH:32:GLU:HG3	1.03	1.08
2:Pm:14:ASN:HD21	2:Pn:76:ILE:CG1	1.65	1.08
1:H0:62:ARG:HG2	3:Y8:848:ILE:CD1	1.82	1.08
2:P7:14:ASN:ND2	2:P8:76:ILE:HG13	1.68	1.08
1:JS:30:ALA:O	1:DS:82:ALA:HB3	1.50	1.08
2:PW:14:ASN:ND2	2:PX:76:ILE:HG13	1.68	1.08
1:Mv:72:GLY:HA2	1:Jv:77:ALA:CB	1.82	1.08
2:Pu:14:ASN:ND2	2:Pv:76:ILE:HG13	1.68	1.08
2:Pk:14:ASN:HD21	2:Pl:76:ILE:HG13	1.03	1.08
2:P9:14:ASN:HD21	2:P0:76:ILE:HG13	0.98	1.08
1:DX:73:ASP:OD2	1:En:45:TYR:OH	1.72	1.08
2:Pk:14:ASN:HD21	2:Pl:76:ILE:CG1	1.65	1.08
1:F4:35:LEU:HD21	1:D4:91:ILE:HG21	1.13	1.07
2:Pe:14:ASN:HD21	2:Pf:76:ILE:CG1	1.65	1.07
3:XZ:627:VAL:HG21	1:JI:62:ARG:HG2	1.33	1.07
2:Pt:14:ASN:HD21	2:Pu:76:ILE:CG1	1.65	1.07
1:J2:62:ARG:NH2	3:Xg:624:SER:HB2	1.68	1.07
2:PG:14:ASN:HD21	2:PH:76:ILE:CG1	1.65	1.07
1:NM:30:ALA:O	1:EL:82:ALA:HB3	1.53	1.07
2:PM:14:ASN:ND2	2:PN:76:ILE:HG13	1.68	1.07
2:Pe:14:ASN:HD21	2:Pf:76:ILE:HG13	1.03	1.07
2:PA:14:ASN:HD21	2:PB:76:ILE:CG1	1.65	1.07
1:JR:62:ARG:NH2	3:X5:624:SER:HB2	1.69	1.07
1:Fn:17:LEU:CD2	1:Dn:39:GLN:HE22	1.63	1.07
1:EX:85:HIS:CD2	1:Dn:28:THR:HG22	1.90	1.07
2:Pb:14:ASN:ND2	2:Pc:76:ILE:HG13	1.68	1.07
2:Pl:14:ASN:ND2	2:Pm:76:ILE:HG13	1.68	1.07
2:Pq:14:ASN:HD21	2:Pr:76:ILE:HG13	0.92	1.07
1:L5:80:ILE:CD1	3:X5:638:ILE:HG21	1.84	1.07
2:PQ:14:ASN:HD21	2:PR:76:ILE:HG13	0.91	1.07
3:XL:621:VAL:HG22	1:Dl:58:ASN:ND2	1.70	1.07
2:Pf:14:ASN:HD21	2:Pg:76:ILE:HG13	0.91	1.07
2:Pf:14:ASN:ND2	2:Pg:76:ILE:HG13	1.68	1.07
2:Pl:14:ASN:HD21	2:Pm:76:ILE:HG13	0.91	1.07
2:P2:14:ASN:HD21	2:P3:76:ILE:HG13	0.91	1.06
1:D0:58:ASN:HD21	3:XR:621:VAL:HG22	1.16	1.06
1:Eh:90:ASN:HB3	1:Dp:97:GLN:HA	1.31	1.06
1:JS:32:GLU:HB2	1:DS:7:ILE:HD11	1.32	1.06
3:XE:627:VAL:HG12	1:Jg:80:ILE:HD12	1.23	1.06
1:F4:29:LYS:CG	1:D4:85:HIS:HD2	1.44	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H8:62:ARG:HG2	3:Y6:848:ILE:CD1	1.86	1.06
1:HI:62:ARG:HG2	3:YG:848:ILE:CD1	1.86	1.06
2:PG:76:ILE:HG13	2:PK:14:ASN:HD21	0.98	1.06
1:DZ:73:ASP:OD2	1:Ed:45:TYR:OH	1.74	1.06
1:HC:62:ARG:HG2	3:YA:848:ILE:CD1	1.86	1.06
1:D2:61:VAL:HG12	3:Xg:616:ILE:HD12	1.32	1.06
1:Di:73:ASP:OD2	1:EV:45:TYR:OH	1.73	1.06
3:Xi:626:LEU:HD22	1:Jp:65:ALA:HB3	1.36	1.06
1:EC:76:VAL:HG13	1:Dq:73:ASP:OD1	1.48	1.06
2:PA:76:ILE:HG13	2:PE:14:ASN:HD21	0.98	1.06
1:Eg:85:HIS:CG	1:DD:28:THR:HG21	1.91	1.06
1:DW:58:ASN:HD21	3:Xp:621:VAL:HG22	1.19	1.06
1:Dx:73:ASP:OD2	1:Ek:45:TYR:OH	1.73	1.06
1:Hv:62:ARG:HG2	3:Yt:848:ILE:CD1	1.86	1.06
2:PB:14:ASN:HD21	2:PC:76:ILE:HG13	0.91	1.05
1:HN:62:ARG:HG2	3:YL:848:ILE:CD1	1.86	1.05
2:PM:14:ASN:HD21	2:PN:76:ILE:HG13	0.91	1.05
1:DX:80:ILE:HD12	3:Xo:616:ILE:CG2	1.86	1.05
1:Db:28:THR:HG22	1:E3:85:HIS:CD2	1.91	1.05
1:F4:28:THR:CG2	1:D4:85:HIS:ND1	2.19	1.05
1:H4:62:ARG:HG2	3:Y2:848:ILE:CD1	1.86	1.05
1:Hd:62:ARG:HG2	3:Yb:848:ILE:CD1	1.86	1.05
1:La:83:ARG:NH2	1:DH:32:GLU:CG	2.18	1.05
1:D2:58:ASN:ND2	3:Xg:621:VAL:HG22	1.71	1.05
2:P2:14:ASN:ND2	2:P3:76:ILE:HG13	1.68	1.05
2:PH:14:ASN:HD21	2:PI:76:ILE:HG13	0.91	1.05
1:HY:62:ARG:HG2	3:YW:848:ILE:CD1	1.87	1.05
1:Fb:18:VAL:CA	1:Db:11:MET:CE	2.30	1.05
1:Df:58:ASN:HB2	1:Df:80:ILE:HG12	1.39	1.05
3:Xi:628:THR:OG1	1:Jp:79:HIS:HA	1.50	1.05
1:JX:62:ARG:HG2	3:Xo:627:VAL:HG21	1.35	1.05
2:PW:14:ASN:HD21	2:PX:76:ILE:HG13	0.91	1.05
1:Hr:62:ARG:HG2	3:Yp:848:ILE:CD1	1.86	1.05
1:H3:62:ARG:HG2	3:Y1:848:ILE:CD1	1.86	1.05
1:HS:62:ARG:HG2	3:YQ:848:ILE:CD1	1.87	1.05
3:XT:628:THR:CB	1:Ja:79:HIS:HD2	1.62	1.05
1:Fw:18:VAL:HG13	1:Dw:11:MET:HE2	1.39	1.05
2:Pu:14:ASN:HD21	2:Pv:76:ILE:HG13	0.92	1.05
1:D0:79:HIS:CA	3:XR:617:SER:O	2.05	1.04
1:J7:30:ALA:O	1:D7:82:ALA:HB3	1.54	1.04
1:J6:79:HIS:CG	3:XN:628:THR:HG23	1.91	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XE:628:THR:CB	1:Jg:79:HIS:HD2	1.48	1.04
1:DT:73:ASP:OD2	1:EG:45:TYR:OH	1.73	1.04
1:FJ:35:LEU:HB3	1:DJ:87:GLU:CD	1.74	1.04
1:HO:62:ARG:HG2	3:YM:848:ILE:CD1	1.87	1.04
1:JL:65:ALA:CB	3:Xx:626:LEU:HD22	1.81	1.04
1:Mv:72:GLY:CA	1:Jv:77:ALA:HB2	1.88	1.04
1:HD:62:ARG:HG2	3:YB:848:ILE:CD1	1.87	1.04
1:HR:62:ARG:HG2	3:YP:848:ILE:CD1	1.86	1.04
1:LX:62:ARG:NH2	3:XX:644:VAL:CG2	2.20	1.04
3:XX:616:ILE:HG22	1:Dj:80:ILE:HD12	1.33	1.04
1:D3:58:ASN:HB3	3:Xc:643:TYR:CD1	1.93	1.04
1:M3:72:GLY:HA2	1:J3:77:ALA:HB2	1.40	1.04
1:H9:62:ARG:HG2	3:Y7:848:ILE:CD1	1.86	1.04
3:X6:624:SER:HB2	1:JQ:62:ARG:CZ	1.86	1.04
1:HJ:62:ARG:HG2	3:YH:848:ILE:CD1	1.86	1.04
1:Hh:62:ARG:HG2	3:Yf:848:ILE:CD1	1.87	1.04
1:Hc:62:ARG:HG2	3:Ya:848:ILE:CD1	1.86	1.04
1:Hw:62:ARG:HG2	3:Yu:848:ILE:CD1	1.86	1.04
1:Hm:62:ARG:HG2	3:Yk:848:ILE:CD1	1.86	1.04
1:Hn:62:ARG:HG2	3:Yl:848:ILE:CD1	1.87	1.04
1:DB:22:GLU:OE1	1:Eu:79:HIS:NE2	1.90	1.04
1:DE:73:ASP:OD2	1:E1:45:TYR:OH	1.73	1.04
1:D3:58:ASN:ND2	3:Xc:621:VAL:HG22	1.71	1.04
1:Do:73:ASP:OD2	1:Es:45:TYR:OH	1.74	1.04
3:XX:616:ILE:CG2	1:Dj:80:ILE:CD1	2.31	1.04
1:DA:97:GLN:HA	1:E8:90:ASN:HB3	1.40	1.03
1:DK:73:ASP:OD2	1:EO:45:TYR:OH	1.74	1.03
1:Hg:62:ARG:HG2	3:Ye:848:ILE:CD1	1.86	1.03
1:Hs:62:ARG:HG2	3:Yq:848:ILE:CD1	1.86	1.03
1:E0:90:ASN:HB3	1:DQ:97:GLN:HA	1.40	1.03
1:Eg:85:HIS:CG	1:DD:28:THR:HG22	1.93	1.03
3:X6:621:VAL:HG22	1:DQ:58:ASN:HD21	0.99	1.03
1:FS:17:LEU:HD23	1:DS:39:GLN:NE2	1.71	1.03
3:XL:726:GLY:CA	1:FL:79:HIS:CE1	2.40	1.03
1:DX:80:ILE:HD12	3:Xo:616:ILE:HG21	1.39	1.03
1:HX:62:ARG:HG2	3:YV:848:ILE:CD1	1.86	1.03
1:Nn:32:GLU:N	1:Em:83:ARG:HH21	1.56	1.03
1:HA:62:ARG:HG2	3:YD:848:ILE:CD1	1.89	1.03
1:D3:58:ASN:CB	3:Xc:643:TYR:CE1	1.99	1.03
1:E4:90:ASN:HB3	1:DR:97:GLN:HA	1.33	1.03
1:HG:62:ARG:HG2	3:YJ:848:ILE:CD1	1.89	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ED:45:TYR:OH	1:Dg:73:ASP:OD2	1.75	1.03
3:XK:616:ILE:HG21	1:Dm:80:ILE:HD11	1.39	1.03
1:Ov:45:TYR:OH	1:Jv:73:ASP:OD2	1.76	1.03
1:FY:35:LEU:HD21	1:DY:91:ILE:HG21	1.40	1.03
3:XC:616:ILE:HD12	1:Du:61:VAL:CG1	1.89	1.02
1:DP:97:GLN:HA	1:EN:90:ASN:HB3	1.40	1.02
1:HP:62:ARG:HG2	3:YS:848:ILE:CD1	1.89	1.02
1:DL:97:GLN:HA	1:Ew:90:ASN:HB3	1.37	1.02
1:He:62:ARG:HG2	3:Yh:848:ILE:CD1	1.89	1.02
2:P7:14:ASN:HD21	2:P8:76:ILE:HG13	0.91	1.02
1:ET:90:ASN:HB3	1:DG:97:GLN:HA	1.39	1.02
1:DX:58:ASN:ND2	3:Xo:621:VAL:HG22	1.74	1.02
1:Dt:97:GLN:HA	1:Er:90:ASN:HB3	1.40	1.02
1:Ev:85:HIS:CE1	1:D7:28:THR:CG2	2.38	1.02
1:Hk:62:ARG:HG2	3:Yn:848:ILE:CD1	1.89	1.02
1:D5:73:ASP:OD2	1:E9:45:TYR:OH	1.74	1.02
1:H1:62:ARG:HG2	3:Y4:848:ILE:CD1	1.89	1.02
1:FJ:35:LEU:HD21	1:DJ:91:ILE:HD13	1.06	1.02
1:HL:62:ARG:HG2	3:YO:848:ILE:CD1	1.89	1.02
1:JL:79:HIS:CA	3:Xx:628:THR:OG1	2.07	1.02
3:XZ:643:TYR:OH	1:DI:54:THR:O	1.68	1.02
1:Ha:62:ARG:HG2	3:Yd:848:ILE:CD1	1.89	1.02
1:Eo:45:TYR:OH	1:Ds:73:ASP:OD2	1.77	1.02
3:X7:616:ILE:CG2	1:DM:80:ILE:HD12	1.88	1.02
1:F7:28:THR:HG21	1:D7:87:GLU:CG	1.90	1.02
2:PP:76:ILE:HG13	2:PT:14:ASN:ND2	1.75	1.02
1:JL:79:HIS:HA	3:Xx:628:THR:OG1	1.59	1.02
2:Pe:76:ILE:HG13	2:Pi:14:ASN:ND2	1.75	1.02
1:Ht:62:ARG:HG2	3:Yw:848:ILE:CD1	1.89	1.02
1:Fn:17:LEU:HD21	1:Dn:39:GLN:HE22	0.88	1.02
2:P6:76:ILE:HG13	2:P0:14:ASN:ND2	1.75	1.02
3:XT:626:LEU:HD22	1:Ja:65:ALA:CB	1.85	1.02
2:Pk:76:ILE:HG13	2:Po:14:ASN:ND2	1.75	1.02
3:Xm:622:ASP:O	1:JF:62:ARG:NH1	1.92	1.02
2:PA:76:ILE:HG13	2:PE:14:ASN:ND2	1.75	1.01
1:E5:45:TYR:OH	1:D9:73:ASP:OD2	1.77	1.01
1:F4:28:THR:CB	1:D4:85:HIS:HD1	1.73	1.01
1:H6:62:ARG:HG2	3:Y9:848:ILE:CD1	1.89	1.01
2:P9:14:ASN:ND2	2:P0:76:ILE:HG13	1.75	1.01
3:XZ:621:VAL:HG22	1:DI:58:ASN:ND2	1.75	1.01
1:Dv:80:ILE:O	3:X8:618:GLY:HA3	1.60	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fw:18:VAL:HA	1:Dw:11:MET:CE	1.90	1.01
1:HB:62:ARG:CG	3:YE:848:ILE:HD13	1.91	1.01
3:XE:628:THR:OG1	1:Jg:79:HIS:HA	1.53	1.01
1:EJ:90:ASN:HB3	1:Dm:97:GLN:HA	1.42	1.01
1:HH:62:ARG:CG	3:YK:848:ILE:HD13	1.91	1.01
2:PG:76:ILE:HG13	2:PK:14:ASN:ND2	1.75	1.01
1:DL:73:ASP:OD2	1:Ew:45:TYR:OH	1.77	1.01
1:Ei:90:ASN:HB3	1:DV:97:GLN:HA	1.40	1.01
1:HV:62:ARG:HG2	3:YY:848:ILE:CD1	1.89	1.01
1:Hb:62:ARG:CG	3:YU:848:ILE:HD13	1.90	1.01
2:Pa:76:ILE:HG13	2:PU:14:ASN:ND2	1.75	1.01
1:Hq:62:ARG:CG	3:Yj:848:ILE:HD13	1.91	1.01
1:J6:62:ARG:HD3	3:XN:620:SER:O	1.57	1.01
1:Nm:72:GLY:HA2	1:Lm:77:ALA:HB2	1.40	1.01
1:H7:62:ARG:CG	3:Y0:848:ILE:HD13	1.91	1.01
1:De:97:GLN:HA	1:Ec:90:ASN:HB3	1.40	1.01
1:Hf:62:ARG:CG	3:Yi:848:ILE:HD13	1.91	1.01
1:La:83:ARG:CZ	1:DH:32:GLU:HA	1.88	1.01
1:Fw:35:LEU:CD2	1:Dw:91:ILE:HG21	1.90	1.01
1:Hu:62:ARG:CG	3:Yx:848:ILE:HD13	1.91	1.01
1:Mv:35:LEU:O	1:Jv:87:GLU:OE2	1.77	1.01
2:Pt:76:ILE:HG13	2:Px:14:ASN:ND2	1.75	1.01
1:Hp:62:ARG:HG2	3:Ys:848:ILE:CD1	1.89	1.01
2:Ps:14:ASN:ND2	2:Pj:76:ILE:HG13	1.75	1.01
1:FD:72:GLY:HA2	1:DD:77:ALA:HB2	1.39	1.01
1:HM:62:ARG:CG	3:YF:848:ILE:HD13	1.90	1.01
1:Hl:62:ARG:CG	3:Yo:848:ILE:HD13	1.91	1.01
2:Pp:76:ILE:HG13	2:Pj:14:ASN:ND2	1.75	1.01
1:D0:61:VAL:HG12	3:XR:616:ILE:HD12	1.41	1.01
1:F7:35:LEU:HD21	1:D7:91:ILE:HG21	1.03	1.01
1:F7:35:LEU:HD21	1:D7:91:ILE:CG2	1.90	1.01
1:M6:72:GLY:HA2	1:J6:77:ALA:HB2	1.42	1.01
3:XT:627:VAL:CG1	1:Ja:80:ILE:HD12	1.90	1.01
2:PY:14:ASN:ND2	2:PZ:76:ILE:HG13	1.75	1.01
1:LN:82:ALA:N	3:XN:641:ASP:OD1	1.92	1.01
1:F7:35:LEU:CD2	1:D7:91:ILE:CG2	2.39	1.00
1:HQ:62:ARG:CG	3:YT:848:ILE:HD13	1.91	1.00
1:EY:45:TYR:OH	1:DI:73:ASP:OD2	1.76	1.00
1:HW:62:ARG:CG	3:YZ:848:ILE:HD13	1.91	1.00
3:XT:628:THR:OG1	1:Ja:79:HIS:HA	1.61	1.00
1:OJ:85:HIS:CE1	1:DJ:83:ARG:NH1	2.30	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JL:79:HIS:HD2	3:Xx:628:THR:HB	1.04	1.00
1:DX:80:ILE:HD11	3:Xo:616:ILE:HG21	1.43	1.00
2:PV:76:ILE:HG13	2:PZ:14:ASN:ND2	1.75	1.00
1:Ea:79:HIS:NE2	1:DS:22:GLU:OE1	1.95	1.00
1:Dv:79:HIS:HA	3:X8:617:SER:O	1.60	1.00
3:XX:616:ILE:HG21	1:Dj:80:ILE:HD11	1.35	1.00
1:D2:58:ASN:HD21	3:Xg:621:VAL:CG2	1.74	1.00
1:ER:91:ILE:HG21	1:D4:35:LEU:CD2	1.90	1.00
1:FJ:35:LEU:CD2	1:DJ:91:ILE:HD13	1.90	1.00
2:PO:14:ASN:ND2	2:PF:76:ILE:HG13	1.75	1.00
1:J6:79:HIS:CD2	3:XN:628:THR:HG21	1.94	1.00
1:L7:53:GLU:OE2	1:DM:55:GLY:HA2	1.60	1.00
2:PJ:14:ASN:ND2	2:PK:76:ILE:HG13	1.75	1.00
1:EZ:45:TYR:OH	1:Dd:73:ASP:OD2	1.77	1.00
1:Fb:18:VAL:HG13	1:Db:11:MET:CE	1.90	1.00
2:P4:14:ASN:ND2	2:P5:76:ILE:HG13	1.75	1.00
1:EK:45:TYR:OH	1:DO:73:ASP:OD2	1.77	1.00
2:P1:76:ILE:HG13	2:P5:14:ASN:ND2	1.75	0.99
2:Pd:14:ASN:ND2	2:PU:76:ILE:HG13	1.75	0.99
1:Ex:90:ASN:HB3	1:Dk:97:GLN:HA	1.39	0.99
3:Xv:694:PRO:CG	1:Jv:45:TYR:CE2	2.42	0.99
1:F4:35:LEU:HD21	1:D4:91:ILE:CG2	1.91	0.99
1:DE:97:GLN:HA	1:E1:90:ASN:HB3	1.43	0.99
1:DC:73:ASP:OD2	1:Eq:45:TYR:OH	1.77	0.99
3:X6:624:SER:HB2	1:JQ:62:ARG:NH2	1.75	0.99
1:Ee:45:TYR:OH	1:Dc:73:ASP:OD2	1.80	0.99
2:Pn:14:ASN:ND2	2:Po:76:ILE:HG13	1.75	0.99
3:XC:621:VAL:CG2	1:Du:58:ASN:HD21	1.69	0.99
1:F4:28:THR:CB	1:D4:85:HIS:ND1	2.26	0.99
1:Eg:88:VAL:HG21	1:DD:25:ASP:HA	1.45	0.99
1:EE:90:ASN:HB3	1:D1:97:GLN:HA	1.39	0.99
1:DT:97:GLN:HA	1:EG:90:ASN:HB3	1.43	0.99
1:FS:28:THR:CG2	1:DS:87:GLU:HG3	1.91	0.99
1:EA:45:TYR:OH	1:D8:73:ASP:OD2	1.80	0.99
1:FL:90:ASN:O	1:EL:97:GLN:O	1.80	0.99
1:DB:61:VAL:CG1	3:Xv:616:ILE:HD12	1.92	0.99
1:H2:62:ARG:CG	3:Y5:848:ILE:HD13	1.91	0.99
1:EP:45:TYR:OH	1:DN:73:ASP:OD2	1.80	0.99
3:XK:621:VAL:HG22	1:Dm:58:ASN:ND2	1.78	0.99
1:D2:58:ASN:ND2	3:Xg:621:VAL:CG2	2.26	0.98
1:F4:29:LYS:HA	1:D4:85:HIS:NE2	1.25	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XT:628:THR:OG1	1:Ja:79:HIS:CA	2.11	0.98
1:Ep:79:HIS:CE1	1:Dh:22:GLU:OE1	2.17	0.98
3:XC:630:ASN:ND2	1:Ju:58:ASN:OD1	1.96	0.98
1:Di:97:GLN:HA	1:EV:90:ASN:HB3	1.43	0.98
1:Eg:85:HIS:ND1	1:DD:28:THR:HG21	1.76	0.98
1:Mv:72:GLY:HA2	1:Jv:77:ALA:HB2	0.99	0.98
1:JL:80:ILE:HD12	3:Xx:627:VAL:CG1	1.93	0.98
2:PL:76:ILE:HG13	2:PF:14:ASN:ND2	1.75	0.98
1:J6:62:ARG:CZ	3:XN:624:SER:HB2	1.93	0.98
1:FS:28:THR:HG21	1:DS:87:GLU:HB2	1.00	0.98
3:XZ:616:ILE:CG2	1:DI:80:ILE:CD1	2.29	0.98
3:XE:621:VAL:HG22	1:Dg:58:ASN:ND2	1.79	0.98
1:HQ:62:ARG:CG	3:YT:848:ILE:CD1	2.42	0.98
1:DW:58:ASN:ND2	3:Xp:621:VAL:HG21	1.78	0.98
1:D3:54:THR:O	3:Xc:643:TYR:OH	1.78	0.98
1:D3:79:HIS:CA	3:Xc:617:SER:O	2.10	0.98
1:H0:62:ARG:CG	3:Y8:848:ILE:HD13	1.94	0.98
1:HM:62:ARG:CG	3:YF:848:ILE:CD1	2.42	0.98
1:HW:62:ARG:CG	3:YZ:848:ILE:CD1	2.42	0.98
1:HU:62:ARG:CG	3:Yc:848:ILE:HD13	1.94	0.98
1:Et:45:TYR:OH	1:Dr:73:ASP:OD2	1.80	0.98
1:HT:62:ARG:CG	3:YR:848:ILE:HD13	1.94	0.97
1:Fb:18:VAL:HG13	1:Db:11:MET:HE2	1.00	0.97
1:Nn:32:GLU:CA	1:Em:83:ARG:NH2	1.81	0.97
1:Hj:62:ARG:CG	3:Yr:848:ILE:HD13	1.94	0.97
1:HB:62:ARG:CG	3:YE:848:ILE:CD1	2.42	0.97
1:H2:62:ARG:CG	3:Y5:848:ILE:CD1	2.42	0.97
1:HH:62:ARG:CG	3:YK:848:ILE:CD1	2.42	0.97
1:FJ:22:GLU:HB2	1:DJ:79:HIS:NE2	1.79	0.97
1:D5:97:GLN:HA	1:E9:90:ASN:HB3	1.46	0.97
1:L5:80:ILE:HD12	3:X5:638:ILE:CG2	1.95	0.97
1:EH:45:TYR:OH	1:DU:73:ASP:OD2	1.81	0.97
1:Eu:83:ARG:NE	1:Nv:32:GLU:OE1	1.98	0.97
1:J6:79:HIS:HD2	3:XN:628:THR:HG21	1.28	0.97
1:E2:83:ARG:NE	1:N3:32:GLU:OE1	1.98	0.97
1:L5:62:ARG:CZ	3:X5:644:VAL:HG21	1.94	0.97
1:H7:62:ARG:CG	3:Y0:848:ILE:CD1	2.42	0.97
1:EQ:83:ARG:NE	1:NR:32:GLU:OE1	1.98	0.97
1:HF:62:ARG:CG	3:YN:848:ILE:HD13	1.94	0.97
1:Ef:83:ARG:NE	1:Ng:32:GLU:OE1	1.98	0.97
1:Hl:62:ARG:CG	3:Yo:848:ILE:CD1	2.42	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DK:97:GLN:HA	1:EO:90:ASN:HB3	1.46	0.97
1:EJ:45:TYR:OH	1:Dm:73:ASP:OD2	1.80	0.97
3:XL:621:VAL:HG21	1:Dl:58:ASN:ND2	1.79	0.97
1:Hf:62:ARG:CG	3:Yi:848:ILE:CD1	2.42	0.97
1:DX:55:GLY:HA2	3:Xo:643:TYR:CE2	1.98	0.97
1:Dx:97:GLN:HA	1:Ek:90:ASN:HB3	1.43	0.97
1:Hi:62:ARG:CG	3:Yg:848:ILE:HD13	1.94	0.97
1:EB:83:ARG:NE	1:NC:32:GLU:OE1	1.98	0.97
2:P8:14:ASN:ND2	2:P9:76:ILE:HG13	1.80	0.97
1:EH:83:ARG:NE	1:NI:32:GLU:OE1	1.98	0.97
1:Hu:62:ARG:CG	3:Yx:848:ILE:CD1	2.42	0.97
1:Hx:62:ARG:CG	3:Yv:848:ILE:HD13	1.94	0.97
1:DB:61:VAL:HG12	3:Xv:616:ILE:CD1	1.95	0.96
3:XE:627:VAL:HG11	1:Jg:80:ILE:CD1	1.94	0.96
2:PP:14:ASN:ND2	2:PQ:76:ILE:HG13	1.80	0.96
1:HK:62:ARG:CG	3:YI:848:ILE:HD13	1.94	0.96
1:Ho:62:ARG:CG	3:Ym:848:ILE:HD13	1.94	0.96
1:EA:90:ASN:HB3	1:D8:97:GLN:HA	1.48	0.96
1:Es:83:ARG:NE	1:Nj:32:GLU:OE1	1.98	0.96
1:HE:62:ARG:CG	3:YC:848:ILE:HD13	1.94	0.96
1:JS:32:GLU:CB	1:DS:7:ILE:HD11	1.95	0.96
1:EO:83:ARG:NE	1:NF:32:GLU:OE1	1.98	0.96
1:Eh:83:ARG:NE	1:Ni:32:GLU:OE1	1.98	0.96
1:HY:62:ARG:CG	3:YW:848:ILE:HD13	1.96	0.96
2:PV:14:ASN:ND2	2:PW:76:ILE:HG13	1.80	0.96
1:Fn:72:GLY:HA2	1:Dn:77:ALA:HB2	1.46	0.96
1:Ed:83:ARG:NE	1:NU:32:GLU:OE1	1.98	0.96
1:Fb:72:GLY:HA2	1:Db:77:ALA:HB2	1.47	0.96
1:Ev:91:ILE:HG21	1:D7:35:LEU:HD21	1.46	0.96
1:E9:83:ARG:NE	1:N0:32:GLU:OE1	1.98	0.96
1:EM:83:ARG:NE	1:NN:32:GLU:OE1	1.98	0.96
1:HZ:62:ARG:CG	3:YX:848:ILE:HD13	1.94	0.96
1:Hb:62:ARG:CG	3:YU:848:ILE:CD1	2.42	0.96
1:Hd:62:ARG:CG	3:Yb:848:ILE:HD13	1.96	0.96
1:Ew:83:ARG:NE	1:Nx:32:GLU:OE1	1.98	0.96
1:En:83:ARG:NE	1:No:32:GLU:OE1	1.98	0.96
3:XT:627:VAL:HG12	1:Ja:80:ILE:HD12	1.48	0.96
1:Hx:62:ARG:CG	3:Yv:848:ILE:CD1	2.44	0.96
2:Pk:14:ASN:ND2	2:Pl:76:ILE:HG13	1.80	0.96
3:XL:621:VAL:HG22	1:Dl:58:ASN:HD21	1.19	0.96
1:Dv:79:HIS:CD2	3:X8:617:SER:O	2.17	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XX:618:GLY:HA3	1:Dj:80:ILE:O	1.65	0.96
1:J0:62:ARG:NH2	3:XR:624:SER:HB2	1.80	0.96
1:ER:76:VAL:CG1	1:D4:73:ASP:OD1	2.14	0.96
1:LS:65:ALA:CB	3:XS:636:GLN:NE2	2.00	0.96
1:HO:62:ARG:CG	3:YM:848:ILE:CD1	2.44	0.96
1:EW:83:ARG:NE	1:NX:32:GLU:OE1	1.98	0.96
1:Hd:62:ARG:CG	3:Yb:848:ILE:CD1	2.44	0.96
2:Pm:14:ASN:ND2	2:Pn:76:ILE:HG13	1.80	0.96
1:LN:62:ARG:HH22	3:XN:644:VAL:HG21	0.80	0.96
1:DB:79:HIS:CD2	3:Xv:617:SER:C	2.44	0.96
1:HD:62:ARG:CG	3:YB:848:ILE:HD13	1.96	0.96
1:H5:62:ARG:CG	3:Y3:848:ILE:HD13	1.94	0.96
1:H0:62:ARG:CG	3:Y8:848:ILE:CD1	2.44	0.96
1:ES:83:ARG:NE	1:NT:32:GLU:OE1	1.98	0.96
2:Pe:14:ASN:ND2	2:Pf:76:ILE:HG13	1.80	0.96
1:Hs:62:ARG:CG	3:Yq:848:ILE:HD13	1.96	0.96
1:E7:83:ARG:NE	1:N8:32:GLU:OE1	1.98	0.96
1:HJ:62:ARG:CG	3:YH:848:ILE:HD13	1.96	0.96
2:PI:14:ASN:ND2	2:PJ:76:ILE:HG13	1.80	0.96
2:Pg:14:ASN:ND2	2:Ph:76:ILE:HG13	1.80	0.96
1:DX:58:ASN:HB3	3:Xo:643:TYR:CZ	2.00	0.96
1:ED:83:ARG:NE	1:NE:32:GLU:OE1	1.98	0.95
1:D0:80:ILE:CD1	3:XR:616:ILE:HG21	1.96	0.95
1:EX:85:HIS:ND1	1:Dn:28:THR:CG2	2.28	0.95
2:Pa:14:ASN:ND2	2:Pb:76:ILE:HG13	1.80	0.95
1:Et:90:ASN:HB3	1:Dr:97:GLN:HA	1.47	0.95
1:Hs:62:ARG:CG	3:Yq:848:ILE:CD1	2.44	0.95
1:DC:97:GLN:HA	1:Eq:90:ASN:HB3	1.43	0.95
1:EE:45:TYR:OH	1:D1:73:ASP:OD2	1.83	0.95
2:PC:14:ASN:ND2	2:PD:76:ILE:HG13	1.80	0.95
2:P3:14:ASN:ND2	2:P4:76:ILE:HG13	1.80	0.95
1:JH:62:ARG:NH2	3:Xa:624:SER:HB2	1.81	0.95
1:HO:62:ARG:CG	3:YM:848:ILE:HD13	1.96	0.95
1:Hi:62:ARG:CG	3:Yg:848:ILE:CD1	2.44	0.95
1:Eb:83:ARG:NE	1:Nc:32:GLU:OE1	1.98	0.95
1:Fb:28:THR:HG21	1:Db:87:GLU:OE1	1.64	0.95
1:Ov:87:GLU:HB2	1:Jv:28:THR:HG21	1.48	0.95
2:Pv:14:ASN:ND2	2:Pw:76:ILE:HG13	1.81	0.95
1:Ho:62:ARG:CG	3:Ym:848:ILE:CD1	2.44	0.95
1:LN:62:ARG:NH2	3:XN:644:VAL:CB	2.29	0.95
1:E4:83:ARG:NE	1:N5:32:GLU:OE1	1.98	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F7:28:THR:CG2	1:D7:87:GLU:HG3	1.96	0.95
1:H9:62:ARG:CG	3:Y7:848:ILE:CD1	2.44	0.95
1:HS:62:ARG:CG	3:YQ:848:ILE:HD13	1.96	0.95
1:EJ:83:ARG:NE	1:NK:32:GLU:OE1	1.98	0.95
2:PL:14:ASN:ND2	2:PM:76:ILE:HG13	1.80	0.95
1:Ee:90:ASN:HB3	1:Dc:97:GLN:HA	1.48	0.95
1:DX:55:GLY:CA	3:Xo:643:TYR:CZ	2.34	0.95
1:EZ:90:ASN:HB3	1:Dd:97:GLN:HA	1.48	0.95
2:Pc:14:ASN:ND2	2:Pd:76:ILE:HG13	1.80	0.95
1:Hq:62:ARG:CG	3:Yj:848:ILE:CD1	2.42	0.95
2:Pq:37:VAL:CG2	2:Pr:3:ILE:HD11	1.97	0.95
2:PB:37:VAL:CG2	2:PC:3:ILE:HD11	1.97	0.95
1:H4:62:ARG:CG	3:Y2:848:ILE:CD1	2.44	0.95
2:PN:14:ASN:ND2	2:PO:76:ILE:HG13	1.80	0.95
1:Hh:62:ARG:CG	3:Yf:848:ILE:HD13	1.96	0.95
2:PX:14:ASN:ND2	2:PY:76:ILE:HG13	1.80	0.95
3:XZ:616:ILE:HG22	1:DI:80:ILE:HD12	1.47	0.95
1:Hn:62:ARG:CG	3:Yl:848:ILE:HD13	1.96	0.95
1:ER:45:TYR:OH	1:D4:73:ASP:OD2	1.83	0.95
1:EY:83:ARG:NE	1:NZ:32:GLU:OE1	1.98	0.95
2:P1:14:ASN:ND2	2:P2:76:ILE:HG13	1.80	0.95
1:HK:62:ARG:CG	3:YI:848:ILE:CD1	2.44	0.95
2:PH:37:VAL:CG2	2:PI:3:ILE:HD11	1.97	0.95
2:PM:37:VAL:CG2	2:PN:3:ILE:HD11	1.97	0.95
1:Ev:85:HIS:ND1	1:D7:28:THR:HG22	1.72	0.95
2:PA:14:ASN:ND2	2:PB:76:ILE:HG13	1.80	0.95
1:H4:62:ARG:CG	3:Y2:848:ILE:HD13	1.96	0.95
2:PG:14:ASN:ND2	2:PH:76:ILE:HG13	1.80	0.95
1:Ei:45:TYR:OH	1:DV:73:ASP:OD2	1.83	0.95
2:Pu:37:VAL:CG2	2:Pv:3:ILE:HD11	1.97	0.95
1:J6:80:ILE:HD12	3:XN:630:ASN:HD21	1.32	0.95
1:Hw:62:ARG:CG	3:Yu:848:ILE:HD13	1.96	0.95
1:Eo:90:ASN:HB3	1:Ds:97:GLN:HA	1.48	0.95
1:Nn:32:GLU:HA	1:Em:83:ARG:CZ	1.95	0.95
2:Pr:14:ASN:ND2	2:Ps:76:ILE:HG13	1.80	0.95
1:HE:62:ARG:CG	3:YC:848:ILE:CD1	2.44	0.95
1:JS:32:GLU:CD	1:DS:7:ILE:CD1	2.40	0.95
2:PQ:37:VAL:CG2	2:PR:3:ILE:HD11	1.97	0.95
1:HJ:62:ARG:CG	3:YH:848:ILE:CD1	2.44	0.95
1:HZ:62:ARG:CG	3:YX:848:ILE:CD1	2.44	0.95
1:Fb:18:VAL:HG23	1:Db:13:GLU:CD	1.89	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pt:14:ASN:ND2	2:Pu:76:ILE:HG13	1.80	0.95
1:Jn:62:ARG:NE	3:XY:624:SER:HB2	1.82	0.95
2:Pp:14:ASN:ND2	2:Pq:76:ILE:HG13	1.81	0.95
1:ED:90:ASN:HB3	1:Dg:97:GLN:HA	1.48	0.95
1:HD:62:ARG:CG	3:YB:848:ILE:CD1	2.44	0.95
2:P7:37:VAL:CG2	2:P8:3:ILE:HD11	1.97	0.95
1:HS:62:ARG:CG	3:YQ:848:ILE:CD1	2.44	0.95
3:XT:627:VAL:CG1	1:Ja:80:ILE:CD1	2.45	0.95
1:Hw:62:ARG:CG	3:Yu:848:ILE:CD1	2.44	0.95
1:Fn:34:ARG:CA	1:Dn:87:GLU:OE2	2.13	0.95
2:P6:14:ASN:ND2	2:P7:76:ILE:HG13	1.80	0.94
1:FS:17:LEU:HD23	1:DS:39:GLN:HE21	1.28	0.94
1:DZ:97:GLN:HA	1:Ed:90:ASN:HB3	1.46	0.94
1:Lc:62:ARG:CG	3:Xc:633:GLY:O	2.14	0.94
1:Dv:80:ILE:O	3:X8:618:GLY:CA	2.15	0.94
1:Do:97:GLN:HA	1:Es:90:ASN:HB3	1.46	0.94
2:PR:14:ASN:ND2	2:PS:76:ILE:HG13	1.81	0.94
1:JX:62:ARG:NH2	3:Xo:624:SER:CB	2.29	0.94
1:Hn:62:ARG:CG	3:Yl:848:ILE:CD1	2.44	0.94
1:Eq:83:ARG:NE	1:Nr:32:GLU:OE1	1.98	0.94
1:D0:58:ASN:ND2	3:XR:621:VAL:HG22	1.81	0.94
1:Jh:62:ARG:CZ	3:Xq:624:SER:HB2	1.96	0.94
1:Ev:92:LEU:CD2	1:D7:21:ILE:HD13	1.97	0.94
1:Ex:45:TYR:OH	1:Dk:73:ASP:OD2	1.83	0.94
1:Hj:62:ARG:CG	3:Yr:848:ILE:CD1	2.44	0.94
1:H5:62:ARG:CG	3:Y3:848:ILE:CD1	2.44	0.94
1:L5:62:ARG:NH2	3:X5:644:VAL:CG2	2.30	0.94
1:Hh:62:ARG:CG	3:Yf:848:ILE:CD1	2.44	0.94
1:Fb:28:THR:HG23	1:Db:87:GLU:OE1	1.65	0.94
1:HU:62:ARG:CG	3:Yc:848:ILE:CD1	2.44	0.94
1:E2:90:ASN:HB3	1:Df:97:GLN:HA	1.50	0.94
1:H9:62:ARG:CG	3:Y7:848:ILE:HD13	1.96	0.94
1:HF:62:ARG:CG	3:YN:848:ILE:CD1	2.44	0.94
3:Xi:621:VAL:HG22	1:Dp:58:ASN:ND2	1.82	0.94
2:PW:37:VAL:CG2	2:PX:3:ILE:HD11	1.97	0.94
2:Pb:37:VAL:CG2	2:Pc:3:ILE:HD11	1.97	0.94
1:DC:79:HIS:HA	3:Xr:617:SER:O	1.65	0.94
1:DW:58:ASN:HD21	3:Xp:621:VAL:CG2	1.79	0.94
1:HB:62:ARG:HA	3:YE:848:ILE:HD11	1.50	0.94
2:P2:37:VAL:CG2	2:P3:3:ILE:HD11	1.97	0.94
1:ES:90:ASN:HB3	1:Da:97:GLN:HA	1.48	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HT:62:ARG:CG	3:YR:848:ILE:CD1	2.44	0.94
1:HH:62:ARG:HA	3:YK:848:ILE:HD11	1.50	0.94
2:Pf:37:VAL:CG2	2:Pg:3:ILE:HD11	1.97	0.94
1:HY:62:ARG:CG	3:YW:848:ILE:CD1	2.44	0.94
1:LX:62:ARG:NH2	3:XX:644:VAL:HG21	1.81	0.94
2:Pl:37:VAL:CG2	2:Pm:3:ILE:HD11	1.97	0.94
3:Ym:703:THR:O	1:Em:79:HIS:HA	1.66	0.94
1:Jq:62:ARG:CZ	3:XD:624:SER:HB2	1.98	0.94
1:D0:80:ILE:HD12	3:XR:616:ILE:CG2	1.97	0.94
1:EP:90:ASN:HB3	1:DN:97:GLN:HA	1.48	0.94
1:ET:45:TYR:OH	1:DG:73:ASP:OD2	1.83	0.94
1:EE:83:ARG:NE	1:NA:32:GLU:OE1	2.01	0.94
1:E5:90:ASN:HB3	1:D9:97:GLN:HA	1.48	0.94
3:X6:621:VAL:HG21	1:DQ:58:ASN:CG	1.93	0.94
1:EK:83:ARG:NE	1:NG:32:GLU:OE1	2.01	0.94
1:EK:90:ASN:HB3	1:DO:97:GLN:HA	1.48	0.94
1:EU:83:ARG:NE	1:Na:32:GLU:OE1	2.01	0.94
2:Pl:37:VAL:HG21	2:Pm:3:ILE:HD11	1.50	0.94
1:D2:80:ILE:CD1	3:Xg:616:ILE:HG21	1.97	0.93
1:OJ:85:HIS:NE2	1:DJ:83:ARG:NH1	2.16	0.93
2:Pf:37:VAL:HG21	2:Pg:3:ILE:HD11	1.51	0.93
1:EZ:83:ARG:NE	1:NV:32:GLU:OE1	2.01	0.93
1:Hq:62:ARG:HA	3:Yj:848:ILE:HD11	1.50	0.93
1:LN:62:ARG:HH21	3:XN:644:VAL:CG2	1.74	0.93
1:E0:83:ARG:NE	1:N6:32:GLU:OE1	2.01	0.93
2:PQ:37:VAL:HG21	2:PR:3:ILE:HD11	1.50	0.93
3:Xi:628:THR:HG1	1:Jp:79:HIS:CB	1.73	0.93
1:D3:58:ASN:HD21	3:Xc:621:VAL:HG22	1.26	0.93
1:Dv:80:ILE:CD1	3:X8:616:ILE:CG2	2.40	0.93
1:E5:83:ARG:NE	1:N1:32:GLU:OE1	2.01	0.93
1:ET:83:ARG:NE	1:NP:32:GLU:OE1	2.01	0.93
1:Fw:18:VAL:HA	1:Dw:11:MET:HE1	1.50	0.93
2:Pq:37:VAL:HG21	2:Pr:3:ILE:HD11	1.50	0.93
2:P2:37:VAL:HG21	2:P3:3:ILE:HD11	1.50	0.93
1:FS:17:LEU:HD21	1:DS:39:GLN:HE22	0.77	0.93
1:JL:79:HIS:HA	3:Xx:628:THR:HG1	1.34	0.93
1:Jn:62:ARG:HE	3:XY:624:SER:HB2	1.33	0.93
1:Ep:88:VAL:HG21	1:Dh:25:ASP:HA	1.51	0.93
1:F4:29:LYS:HG2	1:D4:85:HIS:CD2	2.00	0.93
1:F4:35:LEU:CD2	1:D4:91:ILE:HG21	1.97	0.93
1:Eh:45:TYR:OH	1:Dp:73:ASP:OD2	1.87	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D3:58:ASN:ND2	3:Xc:621:VAL:CG2	2.32	0.93
1:H7:62:ARG:HA	3:Y0:848:ILE:HD11	1.50	0.93
2:Pb:37:VAL:HG21	2:Pc:3:ILE:HD11	1.50	0.93
1:JB:62:ARG:NH2	3:Xv:624:SER:HB2	1.83	0.93
1:HQ:62:ARG:HA	3:YT:848:ILE:HD11	1.50	0.93
2:PM:37:VAL:HG21	2:PN:3:ILE:HD11	1.50	0.93
1:Hc:62:ARG:CG	3:Ya:848:ILE:CD1	2.47	0.93
1:Hr:62:ARG:CG	3:Yp:848:ILE:CD1	2.47	0.93
3:Xi:627:VAL:HG11	1:Jp:80:ILE:CD1	1.97	0.93
1:H3:62:ARG:CG	3:Y1:848:ILE:CD1	2.47	0.92
1:Hu:62:ARG:HA	3:Yx:848:ILE:HD11	1.50	0.92
1:Ap:38:ARG:HH22	1:Ap:97:GLN:NE2	1.67	0.92
1:DD:55:GLY:HA2	3:Xh:643:TYR:OH	1.68	0.92
3:XX:617:SER:HB3	1:Dj:79:HIS:HD2	1.02	0.92
1:FD:28:THR:CG2	1:DD:85:HIS:HE1	1.78	0.92
1:HC:62:ARG:CG	3:YA:848:ILE:CD1	2.47	0.92
1:H3:62:ARG:CG	3:Y1:848:ILE:HD13	2.00	0.92
1:HR:62:ARG:CG	3:YP:848:ILE:CD1	2.47	0.92
1:HI:62:ARG:CG	3:YG:848:ILE:CD1	2.47	0.92
1:Ei:83:ARG:NE	1:Ne:32:GLU:OE1	2.01	0.92
1:L5:62:ARG:NH2	3:X5:644:VAL:HG21	1.83	0.92
1:L8:65:ALA:CB	3:X8:636:GLN:HE21	1.82	0.92
1:Eo:83:ARG:NE	1:Nk:32:GLU:OE1	2.01	0.92
1:H8:62:ARG:CG	3:Y6:848:ILE:CD1	2.47	0.92
1:L7:58:ASN:HD21	3:X7:644:VAL:HG13	1.32	0.92
1:JH:62:ARG:CZ	3:Xa:624:SER:HB2	1.99	0.92
2:PM:14:ASN:ND2	2:PN:76:ILE:CG1	2.30	0.92
1:Hv:62:ARG:CG	3:Yt:848:ILE:CD1	2.47	0.92
1:HC:62:ARG:CG	3:YA:848:ILE:HD13	2.00	0.92
1:HI:62:ARG:CG	3:YG:848:ILE:HD13	2.00	0.92
1:JL:80:ILE:HD12	3:Xx:627:VAL:HG12	1.49	0.92
1:Eg:85:HIS:ND1	1:DD:28:THR:CG2	2.33	0.92
1:Hg:62:ARG:CG	3:Ye:848:ILE:HD13	2.00	0.92
1:La:83:ARG:HH21	1:DH:32:GLU:CG	1.80	0.92
1:Dw:79:HIS:HA	3:XM:617:SER:O	1.69	0.92
1:FJ:35:LEU:HB2	1:DJ:87:GLU:OE1	1.65	0.92
1:Hg:62:ARG:CG	3:Ye:848:ILE:CD1	2.47	0.92
1:DW:58:ASN:ND2	3:Xp:621:VAL:HG22	1.79	0.92
1:Hm:62:ARG:CG	3:Yk:848:ILE:HD13	2.00	0.92
1:D0:58:ASN:HD21	3:XR:621:VAL:CG2	1.83	0.92
1:Hb:62:ARG:HA	3:YU:848:ILE:HD11	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ev:85:HIS:CG	1:D7:28:THR:HG22	2.00	0.92
1:DB:79:HIS:NE2	3:Xv:618:GLY:HA2	1.84	0.92
1:HR:62:ARG:CG	3:YP:848:ILE:HD13	2.00	0.92
1:HW:62:ARG:HA	3:YZ:848:ILE:HD11	1.50	0.92
1:HX:62:ARG:CG	3:YV:848:ILE:HD13	2.00	0.92
1:Ex:83:ARG:NE	1:Nt:32:GLU:OE1	2.01	0.92
1:Ej:83:ARG:NE	1:Np:32:GLU:OE1	2.01	0.92
1:Hr:62:ARG:CG	3:Yp:848:ILE:HD13	2.00	0.92
1:Dw:19:PRO:HG3	1:Dw:72:GLY:HA3	1.52	0.92
1:He:62:ARG:CG	3:Yh:848:ILE:HD13	2.00	0.92
2:PW:37:VAL:HG21	2:PX:3:ILE:HD11	1.50	0.92
1:Hv:62:ARG:CG	3:Yt:848:ILE:HD13	2.00	0.92
1:Jw:32:GLU:CG	1:Dw:7:ILE:HD11	1.99	0.92
1:Hm:62:ARG:CG	3:Yk:848:ILE:CD1	2.47	0.92
3:X7:616:ILE:CG2	1:DM:80:ILE:CD1	2.47	0.92
1:Dw:65:ALA:CB	3:XM:616:ILE:HD11	1.99	0.92
1:F7:28:THR:HG22	1:D7:85:HIS:ND1	1.84	0.92
1:HL:62:ARG:CG	3:YO:848:ILE:HD13	2.00	0.92
3:XZ:616:ILE:HD12	1:DI:61:VAL:HG12	1.52	0.92
3:XC:624:SER:HB2	1:Ju:62:ARG:HH21	1.18	0.91
1:H8:62:ARG:CG	3:Y6:848:ILE:HD13	2.00	0.91
1:HV:62:ARG:CG	3:YY:848:ILE:HD13	2.00	0.91
1:JW:62:ARG:NH1	3:Xp:622:ASP:O	2.03	0.91
1:Hc:62:ARG:CG	3:Ya:848:ILE:HD13	2.00	0.91
1:Hk:62:ARG:CG	3:Yn:848:ILE:HD13	2.00	0.91
1:OC:45:TYR:OH	1:JC:73:ASP:OD2	1.86	0.91
1:H1:62:ARG:CG	3:Y4:848:ILE:HD13	2.00	0.91
1:HN:62:ARG:CG	3:YL:848:ILE:CD1	2.47	0.91
1:OJ:85:HIS:HE2	1:DJ:83:ARG:HH11	1.09	0.91
1:HY:62:ARG:HA	3:YW:848:ILE:HD11	1.53	0.91
1:Fb:35:LEU:CD2	1:Db:91:ILE:CG2	2.47	0.91
1:Ev:45:TYR:OH	1:D7:73:ASP:OD2	1.86	0.91
1:Ht:62:ARG:CG	3:Yw:848:ILE:HD13	2.00	0.91
1:Jn:62:ARG:NH1	3:XY:620:SER:HB3	1.86	0.91
1:DB:78:ALA:O	3:Xv:617:SER:N	2.02	0.91
1:H4:62:ARG:HA	3:Y2:848:ILE:HD11	1.53	0.91
1:Ha:62:ARG:CG	3:Yd:848:ILE:HD13	2.00	0.91
1:D2:80:ILE:HD12	3:Xg:616:ILE:CG2	2.01	0.91
2:P4:37:VAL:CG2	2:P5:3:ILE:HD11	2.01	0.91
1:HM:62:ARG:HA	3:YF:848:ILE:HD11	1.50	0.91
2:PV:3:ILE:HD11	2:PZ:37:VAL:CG2	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PY:37:VAL:CG2	2:PZ:3:ILE:HD11	2.01	0.91
1:Hp:62:ARG:CG	3:Ys:848:ILE:HD13	2.00	0.91
3:XC:616:ILE:HG22	1:Du:80:ILE:HD12	1.52	0.91
1:JS:32:GLU:CD	1:DS:7:ILE:HD11	1.96	0.91
2:Pn:37:VAL:CG2	2:Po:3:ILE:HD11	2.01	0.91
1:Ap:38:ARG:NH2	1:Ap:97:GLN:NE2	2.18	0.91
3:XK:643:TYR:CE1	1:Dm:58:ASN:HB3	2.06	0.91
1:HX:62:ARG:CG	3:YV:848:ILE:CD1	2.47	0.91
1:Fb:18:VAL:HG23	1:Db:13:GLU:HG2	1.53	0.91
1:Hd:62:ARG:HA	3:Yb:848:ILE:HD11	1.53	0.91
2:Pb:14:ASN:ND2	2:Pc:76:ILE:CG1	2.30	0.91
2:Pd:37:VAL:CG2	2:PU:3:ILE:HD11	2.01	0.91
1:LN:62:ARG:HH22	3:XN:644:VAL:CG2	1.63	0.91
1:Em:45:TYR:OH	1:DJ:73:ASP:OD2	1.87	0.91
2:PA:3:ILE:HD11	2:PE:37:VAL:CG2	2.01	0.91
1:H6:62:ARG:CG	3:Y9:848:ILE:HD13	2.00	0.91
2:P7:37:VAL:HG21	2:P8:3:ILE:HD11	1.50	0.91
1:HN:62:ARG:CG	3:YL:848:ILE:HD13	2.00	0.91
2:P6:3:ILE:HD11	2:P0:37:VAL:CG2	2.01	0.90
2:PP:3:ILE:HD11	2:PT:37:VAL:CG2	2.01	0.90
2:PL:3:ILE:HD11	2:PF:37:VAL:CG2	2.01	0.90
2:Pl:14:ASN:ND2	2:Pm:76:ILE:CG1	2.30	0.90
1:DH:79:HIS:HD2	3:Xa:617:SER:CB	1.84	0.90
1:HO:62:ARG:HA	3:YM:848:ILE:HD11	1.53	0.90
2:Pf:14:ASN:ND2	2:Pg:76:ILE:CG1	2.31	0.90
2:Ps:37:VAL:CG2	2:Pj:3:ILE:HD11	2.01	0.90
3:XD:643:TYR:OH	1:Dq:55:GLY:HA2	1.71	0.90
2:PB:37:VAL:HG21	2:PC:3:ILE:HD11	1.50	0.90
1:H2:62:ARG:HA	3:Y5:848:ILE:HD11	1.50	0.90
2:PG:3:ILE:HD11	2:PK:37:VAL:CG2	2.01	0.90
1:He:62:ARG:CG	3:Yh:848:ILE:CD1	2.50	0.90
1:EW:85:HIS:CE1	1:EW:87:GLU:CG	2.55	0.90
1:Dv:58:ASN:HD21	3:X8:621:VAL:HG22	1.18	0.90
2:Pq:14:ASN:ND2	2:Pr:76:ILE:CG1	2.31	0.90
1:DC:58:ASN:HB2	3:Xr:643:TYR:HE1	1.35	0.90
1:HA:62:ARG:CG	3:YD:848:ILE:HD13	2.00	0.90
1:F7:72:GLY:HA2	1:D7:77:ALA:HB2	1.52	0.90
1:HP:62:ARG:CG	3:YS:848:ILE:HD13	2.00	0.90
1:Hh:62:ARG:HA	3:Yf:848:ILE:HD11	1.53	0.90
2:Pa:3:ILE:HD11	2:PU:37:VAL:CG2	2.01	0.90
1:Hk:62:ARG:CG	3:Yn:848:ILE:CD1	2.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F4:72:GLY:HA2	1:D4:77:ALA:HB2	1.53	0.90
1:H1:62:ARG:CG	3:Y4:848:ILE:CD1	2.50	0.90
1:E6:83:ARG:NE	1:N7:32:GLU:OE1	2.05	0.90
1:FS:28:THR:HG23	1:DS:87:GLU:HG3	1.54	0.90
3:XT:621:VAL:HG22	1:Da:58:ASN:ND2	1.87	0.90
3:XT:628:THR:HB	1:Ja:79:HIS:HD2	1.12	0.90
2:PJ:37:VAL:CG2	2:PK:3:ILE:HD11	2.01	0.90
3:XK:624:SER:CB	1:Jm:62:ARG:NH2	2.34	0.90
1:Ea:83:ARG:NE	1:Nb:32:GLU:OE1	2.05	0.90
1:Ht:62:ARG:CG	3:Yw:848:ILE:CD1	2.50	0.90
1:Hw:62:ARG:HA	3:Yu:848:ILE:HD11	1.53	0.90
1:HP:62:ARG:CG	3:YS:848:ILE:CD1	2.50	0.90
1:HG:62:ARG:CG	3:YJ:848:ILE:HD13	2.00	0.90
2:PH:37:VAL:HG21	2:PI:3:ILE:HD11	1.51	0.90
1:Hf:62:ARG:HA	3:Yi:848:ILE:HD11	1.50	0.90
1:HV:62:ARG:CG	3:YY:848:ILE:CD1	2.50	0.90
1:Ev:83:ARG:NE	1:Nw:32:GLU:OE1	2.05	0.90
2:Pu:37:VAL:HG21	2:Pv:3:ILE:HD11	1.51	0.90
1:EB:45:TYR:OH	1:Du:73:ASP:OD2	1.89	0.90
1:EC:83:ARG:NE	1:ND:32:GLU:OE1	2.05	0.90
1:H6:62:ARG:CG	3:Y9:848:ILE:CD1	2.50	0.90
1:ER:83:ARG:NE	1:NS:32:GLU:OE1	2.05	0.90
1:EG:83:ARG:NE	1:NH:32:GLU:OE1	2.05	0.90
1:NJ:32:GLU:OE1	1:EI:83:ARG:NE	2.05	0.90
3:XK:643:TYR:CZ	1:Dm:58:ASN:HB3	2.07	0.90
1:Jf:62:ARG:CZ	3:X3:624:SER:HB2	2.02	0.90
1:Hn:62:ARG:HA	3:Yl:848:ILE:HD11	1.53	0.90
1:Er:83:ARG:NE	1:Ns:32:GLU:OE1	2.05	0.90
2:P9:37:VAL:CG2	2:P0:3:ILE:HD11	2.01	0.90
1:EW:45:TYR:OH	1:Dj:73:ASP:OD2	1.87	0.90
1:Ha:62:ARG:CG	3:Yd:848:ILE:CD1	2.50	0.90
1:Hl:62:ARG:HA	3:Yo:848:ILE:HD11	1.50	0.90
2:Pp:3:ILE:HD11	2:Pj:37:VAL:CG2	2.01	0.90
1:EA:83:ARG:NE	1:NB:32:GLU:OE1	2.05	0.90
1:J7:32:GLU:CA	1:D7:83:ARG:NH2	1.88	0.90
3:X6:627:VAL:HG21	1:JQ:62:ARG:HG2	1.52	0.90
2:PO:37:VAL:CG2	2:PF:3:ILE:HD11	2.01	0.90
2:Pe:3:ILE:HD11	2:Pi:37:VAL:CG2	2.01	0.90
1:JW:62:ARG:NH2	3:Xp:624:SER:HB2	1.87	0.90
2:Pt:3:ILE:HD11	2:Px:37:VAL:CG2	2.01	0.90
2:Pk:3:ILE:HD11	2:Po:37:VAL:CG2	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PQ:14:ASN:ND2	2:PR:76:ILE:CG1	2.30	0.89
1:EV:83:ARG:NE	1:NW:32:GLU:OE1	2.05	0.89
1:Ev:92:LEU:HD21	1:D7:21:ILE:HD13	1.54	0.89
1:Ek:83:ARG:NE	1:Nl:32:GLU:OE1	2.05	0.89
1:DJ:11:MET:HB2	1:DJ:79:HIS:HB3	1.54	0.89
2:P1:3:ILE:HD11	2:P5:37:VAL:CG2	2.01	0.89
1:L8:65:ALA:HB1	3:X8:636:GLN:HE21	1.38	0.89
1:JL:80:ILE:CD1	3:Xx:627:VAL:CG1	2.48	0.89
1:DF:7:ILE:HD11	1:JF:32:GLU:CB	2.01	0.89
1:JD:79:HIS:HD2	3:Xh:628:THR:OG1	1.54	0.89
1:E1:83:ARG:NE	1:N2:32:GLU:OE1	2.05	0.89
1:Ee:83:ARG:NE	1:Nf:32:GLU:OE1	2.05	0.89
1:Ec:83:ARG:NE	1:Nd:32:GLU:OE1	2.05	0.89
1:J6:80:ILE:HD13	3:XN:630:ASN:HD22	1.35	0.89
1:E2:45:TYR:OH	1:Df:73:ASP:OD2	1.88	0.89
1:D7:55:GLY:HA2	3:Xw:643:TYR:OH	1.72	0.89
1:JF:11:MET:SD	1:MF:21:ILE:HD12	2.12	0.89
2:P2:14:ASN:ND2	2:P3:76:ILE:CG1	2.31	0.89
1:EN:83:ARG:NE	1:NO:32:GLU:OE1	2.05	0.89
1:HL:62:ARG:CG	3:YO:848:ILE:CD1	2.50	0.89
1:HD:62:ARG:HA	3:YB:848:ILE:HD11	1.53	0.89
1:HJ:62:ARG:HA	3:YH:848:ILE:HD11	1.53	0.89
1:Et:83:ARG:NE	1:Nu:32:GLU:OE1	2.05	0.89
1:FD:35:LEU:HD21	1:DD:91:ILE:HG21	1.55	0.89
1:HS:62:ARG:HA	3:YQ:848:ILE:HD11	1.52	0.89
1:Eg:83:ARG:NE	1:Nh:32:GLU:OE1	2.05	0.89
1:Dv:79:HIS:CG	3:X8:617:SER:O	2.25	0.89
3:Ym:705:ASN:HD22	1:Em:82:ALA:HB2	1.36	0.89
1:Hp:62:ARG:CG	3:Ys:848:ILE:CD1	2.50	0.89
1:DB:25:ASP:OD2	1:Eu:84:VAL:HA	1.73	0.89
1:E8:83:ARG:NE	1:N9:32:GLU:OE1	2.05	0.89
1:H9:62:ARG:HA	3:Y7:848:ILE:HD11	1.53	0.89
1:D0:58:ASN:ND2	3:XR:621:VAL:CG2	2.35	0.88
1:FS:28:THR:CG2	1:DS:87:GLU:CG	2.50	0.88
1:EP:83:ARG:NE	1:NQ:32:GLU:OE1	2.05	0.88
1:EX:83:ARG:NE	1:NY:32:GLU:OE1	2.05	0.88
1:Jb:30:ALA:O	1:Db:82:ALA:HB3	1.72	0.88
1:Hs:62:ARG:HA	3:Yq:848:ILE:HD11	1.53	0.88
1:Db:35:LEU:HD21	1:E3:91:ILE:HG21	1.55	0.88
1:HS:62:ARG:HG3	3:YQ:848:ILE:HD13	1.56	0.88
1:EY:83:ARG:CZ	1:NZ:32:GLU:OE1	2.22	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ep:83:ARG:NE	1:Nq:32:GLU:OE1	2.05	0.88
1:F4:29:LYS:CG	1:D4:85:HIS:NE2	2.32	0.88
1:H4:62:ARG:HG3	3:Y2:848:ILE:HD13	1.56	0.88
1:F7:28:THR:HG22	1:D7:85:HIS:CE1	2.07	0.88
1:Dv:80:ILE:HD11	3:X8:616:ILE:HG21	1.55	0.88
1:Db:28:THR:HG21	1:E3:85:HIS:CG	2.09	0.88
1:HA:62:ARG:CG	3:YD:848:ILE:CD1	2.50	0.88
1:F4:35:LEU:CD2	1:D4:91:ILE:CG2	2.50	0.88
1:H7:62:ARG:HG3	3:Y0:848:ILE:HD13	1.55	0.88
2:P7:14:ASN:ND2	2:P8:76:ILE:CG1	2.30	0.88
1:HG:62:ARG:CG	3:YJ:848:ILE:CD1	2.50	0.88
1:Hb:62:ARG:HG3	3:YU:848:ILE:HD13	1.55	0.88
1:ED:83:ARG:CZ	1:NE:32:GLU:OE1	2.22	0.88
1:FS:28:THR:HG21	1:DS:87:GLU:CG	2.03	0.88
1:EJ:83:ARG:CZ	1:NK:32:GLU:OE1	2.22	0.88
1:Eh:83:ARG:CZ	1:Ni:32:GLU:OE1	2.22	0.88
1:HZ:62:ARG:HG2	3:YX:848:ILE:HD13	1.54	0.88
1:E4:83:ARG:CZ	1:N5:32:GLU:OE1	2.22	0.88
1:F4:28:THR:HB	1:D4:85:HIS:ND1	1.87	0.88
1:Hu:62:ARG:HG3	3:Yx:848:ILE:HD13	1.55	0.88
1:En:83:ARG:CZ	1:No:32:GLU:OE1	2.22	0.88
1:J6:80:ILE:CD1	3:XN:630:ASN:HD21	1.80	0.88
1:H9:62:ARG:HG3	3:Y7:848:ILE:HD13	1.56	0.88
1:EO:83:ARG:CZ	1:NF:32:GLU:OE1	2.22	0.88
2:Pu:14:ASN:ND2	2:Pv:76:ILE:CG1	2.31	0.88
1:Hw:62:ARG:HG3	3:Yu:848:ILE:HD13	1.56	0.88
1:E4:45:TYR:OH	1:DR:73:ASP:OD2	1.90	0.87
1:F4:29:LYS:CB	1:D4:85:HIS:NE2	2.37	0.87
1:E9:83:ARG:CZ	1:N0:32:GLU:OE1	2.22	0.87
1:Ew:83:ARG:CZ	1:Nx:32:GLU:OE1	2.22	0.87
1:Es:83:ARG:CZ	1:Nj:32:GLU:OE1	2.22	0.87
1:D0:55:GLY:HA2	3:XR:643:TYR:HH	0.85	0.87
3:XX:616:ILE:HD13	1:Dj:78:ALA:HB3	1.55	0.87
1:Db:28:THR:CG2	1:E3:85:HIS:CG	2.57	0.87
2:PB:14:ASN:ND2	2:PC:76:ILE:CG1	2.30	0.87
1:Jw:32:GLU:HB2	1:Dw:7:ILE:HD11	1.54	0.87
1:Fj:28:THR:HG21	1:Dj:87:GLU:HB2	1.57	0.87
1:Jm:76:VAL:HG13	1:Mm:73:ASP:OD1	1.74	0.87
1:HF:62:ARG:HG2	3:YN:848:ILE:HD13	1.54	0.87
2:PO:37:VAL:HG21	2:PF:3:ILE:HD11	1.57	0.87
1:D0:97:GLN:HA	1:EQ:90:ASN:HB3	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H0:62:ARG:HG2	3:Y8:848:ILE:HD13	1.54	0.87
2:PH:14:ASN:ND2	2:PI:76:ILE:CG1	2.30	0.87
1:HY:62:ARG:HG3	3:YW:848:ILE:HD13	1.56	0.87
1:Ed:83:ARG:CZ	1:NU:32:GLU:OE1	2.22	0.87
1:ES:83:ARG:CZ	1:NT:32:GLU:OE1	2.22	0.87
1:HM:62:ARG:HG3	3:YF:848:ILE:HD13	1.55	0.87
1:Fw:18:VAL:CG1	1:Dw:11:MET:HE2	2.04	0.87
1:D4:55:GLY:HA2	3:XS:643:TYR:OH	1.72	0.87
1:DB:79:HIS:CG	3:Xv:617:SER:O	2.28	0.87
3:YL:708:ALA:HB2	1:EL:62:ARG:HH21	1.38	0.87
3:Ym:703:THR:C	1:Em:79:HIS:ND1	2.19	0.87
1:D2:55:GLY:CA	3:Xg:643:TYR:HH	1.77	0.87
2:P6:3:ILE:HD11	2:P0:37:VAL:HG21	1.57	0.87
1:Hf:62:ARG:HG3	3:Yi:848:ILE:HD13	1.56	0.87
2:PY:37:VAL:HG21	2:PZ:3:ILE:HD11	1.57	0.87
2:Ps:37:VAL:HG21	2:Pj:3:ILE:HD11	1.57	0.87
1:J4:30:ALA:O	1:D4:82:ALA:CB	2.21	0.87
1:D0:35:LEU:HD21	1:EQ:91:ILE:HG21	1.57	0.87
1:L8:32:GLU:HA	1:Jv:83:ARG:HH11	1.32	0.87
2:PG:37:VAL:CG2	2:PH:3:ILE:HD11	2.05	0.87
1:DX:97:GLN:HA	1:En:90:ASN:HB3	1.57	0.87
1:Nm:71:VAL:HG22	3:Xm:639:SER:OG	1.75	0.87
2:PA:37:VAL:CG2	2:PB:3:ILE:HD11	2.05	0.86
3:XC:617:SER:N	1:Du:78:ALA:O	2.06	0.86
2:P8:37:VAL:CG2	2:P9:3:ILE:HD11	2.05	0.86
1:FS:28:THR:CG2	1:DS:87:GLU:HB2	1.96	0.86
1:JL:79:HIS:CA	3:Xx:628:THR:HG1	1.86	0.86
1:Dv:54:THR:O	3:X8:643:TYR:OH	1.68	0.86
3:XC:623:ALA:HA	1:Ju:62:ARG:HD2	1.57	0.86
2:P1:3:ILE:HD11	2:P5:37:VAL:HG21	1.57	0.86
1:HH:62:ARG:HG3	3:YK:848:ILE:HD13	1.55	0.86
1:Hl:62:ARG:HG3	3:Yo:848:ILE:HD13	1.56	0.86
1:ER:88:VAL:HG21	1:D4:25:ASP:HA	1.57	0.86
1:Dv:58:ASN:HD21	3:X8:621:VAL:CG2	1.81	0.86
1:Hs:62:ARG:HG3	3:Yq:848:ILE:HD13	1.56	0.86
2:Pp:37:VAL:CG2	2:Pq:3:ILE:HD11	2.05	0.86
1:DJ:11:MET:HE3	1:DJ:79:HIS:HB3	1.57	0.86
2:P3:37:VAL:CG2	2:P4:3:ILE:HD11	2.05	0.86
1:L8:65:ALA:C	3:X8:636:GLN:HE22	1.83	0.86
2:PV:3:ILE:HD11	2:PZ:37:VAL:HG21	1.57	0.86
2:PX:37:VAL:CG2	2:PY:3:ILE:HD11	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pr:37:VAL:CG2	2:Ps:3:ILE:HD11	2.05	0.86
1:DH:79:HIS:HD2	3:Xa:617:SER:C	1.61	0.86
1:L8:31:ALA:C	1:Jv:83:ARG:HH11	1.84	0.86
3:X6:621:VAL:CG2	1:DQ:58:ASN:HD21	1.66	0.86
2:PP:37:VAL:CG2	2:PQ:3:ILE:HD11	2.05	0.86
2:PJ:37:VAL:HG21	2:PK:3:ILE:HD11	1.57	0.86
1:EM:83:ARG:CZ	1:NN:32:GLU:OE1	2.24	0.86
3:YL:705:ASN:ND2	1:EL:82:ALA:H	1.73	0.86
3:Xv:694:PRO:HG3	1:Jv:45:TYR:OH	1.74	0.86
2:Pk:37:VAL:CG2	2:Pl:3:ILE:HD11	2.05	0.86
1:HB:62:ARG:HG3	3:YE:848:ILE:HD13	1.55	0.86
1:H5:62:ARG:HG2	3:Y3:848:ILE:HD13	1.54	0.86
2:PL:37:VAL:CG2	2:PM:3:ILE:HD11	2.05	0.86
2:Pe:37:VAL:CG2	2:Pf:3:ILE:HD11	2.05	0.86
1:DX:58:ASN:HD21	3:Xo:621:VAL:HG22	1.33	0.86
1:EW:85:HIS:HE1	1:EW:87:GLU:HG3	1.40	0.86
2:Pa:37:VAL:CG2	2:Pb:3:ILE:HD11	2.05	0.86
2:Pm:37:VAL:CG2	2:Pn:3:ILE:HD11	2.05	0.86
3:Ym:705:ASN:HD22	1:Em:82:ALA:CB	1.89	0.86
2:P4:37:VAL:HG21	2:P5:3:ILE:HD11	1.57	0.86
2:P9:37:VAL:HG21	2:P0:3:ILE:HD11	1.57	0.86
2:PI:37:VAL:CG2	2:PJ:3:ILE:HD11	2.05	0.86
1:Ef:83:ARG:CZ	1:Ng:32:GLU:OE1	2.24	0.86
1:Eb:83:ARG:CZ	1:Nc:32:GLU:OE1	2.24	0.86
1:H2:62:ARG:HG3	3:Y5:848:ILE:HD13	1.55	0.86
1:H7:62:ARG:HG2	3:Y0:848:ILE:HD13	1.53	0.86
1:HT:62:ARG:HG2	3:YR:848:ILE:HD13	1.54	0.86
2:Pc:37:VAL:CG2	2:Pd:3:ILE:HD11	2.05	0.86
1:Fw:18:VAL:HG22	1:Dw:11:MET:HE3	1.56	0.86
1:Jw:32:GLU:CD	1:Dw:7:ILE:CD1	2.49	0.86
2:Pt:37:VAL:CG2	2:Pu:3:ILE:HD11	2.05	0.86
1:Hn:62:ARG:HG3	3:Yl:848:ILE:HD13	1.56	0.86
1:DB:79:HIS:CB	3:Xv:617:SER:O	2.23	0.86
2:P1:37:VAL:CG2	2:P2:3:ILE:HD11	2.05	0.86
2:PP:3:ILE:HD11	2:PT:37:VAL:HG21	1.57	0.86
2:PL:3:ILE:HD11	2:PF:37:VAL:HG21	1.57	0.86
1:Hh:62:ARG:HG3	3:Yf:848:ILE:HD13	1.56	0.86
1:EW:83:ARG:CZ	1:NX:32:GLU:OE1	2.24	0.86
3:XZ:624:SER:CB	1:JI:62:ARG:NH2	2.37	0.86
1:EB:83:ARG:CZ	1:NC:32:GLU:OE1	2.24	0.86
1:EH:83:ARG:CZ	1:NI:32:GLU:OE1	2.24	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DL:58:ASN:ND2	3:Xx:621:VAL:HG22	1.90	0.86
1:DX:58:ASN:HB3	3:Xo:643:TYR:CE1	2.10	0.86
1:La:58:ASN:HD21	3:Xa:644:VAL:CG1	1.88	0.86
1:H2:62:ARG:HG2	3:Y5:848:ILE:HD13	1.53	0.85
1:HQ:62:ARG:HG3	3:YT:848:ILE:HD13	1.55	0.85
1:EX:85:HIS:CE1	1:Dn:28:THR:CG2	2.58	0.85
2:PV:37:VAL:CG2	2:PW:3:ILE:HD11	2.05	0.85
1:Nn:31:ALA:C	1:Em:83:ARG:NH2	2.33	0.85
1:Db:28:THR:HG21	1:E3:85:HIS:ND1	1.91	0.85
1:HB:62:ARG:HG2	3:YE:848:ILE:HD13	1.53	0.85
1:HH:62:ARG:HG2	3:YK:848:ILE:HD13	1.53	0.85
1:CN:62:ARG:HG2	3:YL:861:ILE:HG13	1.58	0.85
1:Eu:83:ARG:CZ	1:Nv:32:GLU:OE1	2.24	0.85
1:HD:62:ARG:HG3	3:YB:848:ILE:HD13	1.56	0.85
1:E7:83:ARG:CZ	1:N8:32:GLU:OE1	2.24	0.85
1:CI:62:ARG:HG2	3:YG:861:ILE:HG13	1.58	0.85
1:JL:65:ALA:HB3	3:Xx:626:LEU:HD22	1.58	0.85
2:PN:37:VAL:CG2	2:PO:3:ILE:HD11	2.05	0.85
1:HW:62:ARG:HG3	3:YZ:848:ILE:HD13	1.55	0.85
1:HZ:62:ARG:HA	3:YX:848:ILE:HD11	1.59	0.85
3:X8:629:GLY:HA3	1:Jv:80:ILE:H	1.41	0.85
1:Hd:62:ARG:HG3	3:Yb:848:ILE:HD13	1.56	0.85
1:Ev:85:HIS:CD2	1:D7:28:THR:HG22	2.11	0.85
1:Fw:18:VAL:HG22	1:Dw:11:MET:CE	2.05	0.85
1:CC:62:ARG:HG2	3:YA:861:ILE:HG13	1.58	0.85
2:P6:37:VAL:CG2	2:P7:3:ILE:HD11	2.05	0.85
1:De:73:ASP:OD2	1:Ec:45:TYR:OH	1.95	0.85
2:Pd:37:VAL:HG21	2:PU:3:ILE:HD11	1.57	0.85
1:Dv:80:ILE:HD12	3:X8:616:ILE:HG22	1.56	0.85
1:Jw:32:GLU:CD	1:Dw:7:ILE:HD11	2.02	0.85
1:Nn:31:ALA:O	1:Em:83:ARG:CZ	2.24	0.85
1:Lr:30:ALA:O	1:JC:82:ALA:HB3	1.77	0.85
1:E2:83:ARG:CZ	1:N3:32:GLU:OE1	2.24	0.85
1:FJ:35:LEU:HD21	1:DJ:91:ILE:CD1	2.01	0.85
1:HU:62:ARG:HG2	3:Yc:848:ILE:HD13	1.54	0.85
1:Fw:35:LEU:CD2	1:Dw:91:ILE:CG2	2.54	0.85
1:Ln:83:ARG:HG3	1:DJ:32:GLU:HG2	1.56	0.85
1:Hq:62:ARG:HG3	3:Yj:848:ILE:HD13	1.55	0.85
1:HJ:62:ARG:HG3	3:YH:848:ILE:HD13	1.56	0.85
1:Cw:62:ARG:HG2	3:Yu:861:ILE:HG13	1.59	0.85
1:Eq:83:ARG:CZ	1:Nr:32:GLU:OE1	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XX:617:SER:HB2	1:Dj:79:HIS:CG	2.11	0.85
1:HQ:62:ARG:HG2	3:YT:848:ILE:HD13	1.53	0.85
1:Fn:17:LEU:CD2	1:Dn:39:GLN:HE21	1.85	0.85
1:FY:35:LEU:CD2	1:DY:91:ILE:HG21	2.07	0.85
1:C4:62:ARG:HG2	3:Y2:861:ILE:HG13	1.59	0.85
1:C8:62:ARG:HG2	3:Y6:861:ILE:HG13	1.58	0.85
1:E6:90:ASN:HB3	1:DM:97:GLN:HA	1.58	0.85
1:HM:62:ARG:HG2	3:YF:848:ILE:HD13	1.53	0.85
3:Xi:628:THR:HG1	1:Jp:79:HIS:HB2	1.42	0.85
2:PA:3:ILE:HD11	2:PE:37:VAL:HG21	1.57	0.85
1:E0:45:TYR:OH	1:DQ:73:ASP:OD2	1.95	0.85
1:FJ:25:ASP:CG	1:DJ:81:ILE:HD11	2.01	0.85
1:H5:62:ARG:HA	3:Y3:848:ILE:HD11	1.59	0.84
1:EQ:83:ARG:CZ	1:NR:32:GLU:OE1	2.24	0.84
1:HL:62:ARG:HA	3:YO:848:ILE:HD11	1.59	0.84
1:EU:83:ARG:CZ	1:Na:32:GLU:OE1	2.25	0.84
1:Ht:62:ARG:HA	3:Yw:848:ILE:HD11	1.59	0.84
2:Pn:37:VAL:HG21	2:Po:3:ILE:HD11	1.57	0.84
2:Pp:3:ILE:HD11	2:Pj:37:VAL:HG21	1.57	0.84
1:HE:62:ARG:HA	3:YC:848:ILE:HD11	1.59	0.84
1:E5:83:ARG:CZ	1:N1:32:GLU:OE1	2.25	0.84
1:CR:62:ARG:HG2	3:YP:861:ILE:HG13	1.58	0.84
1:HK:62:ARG:HA	3:YI:848:ILE:HD11	1.59	0.84
1:He:62:ARG:HA	3:Yh:848:ILE:HD11	1.59	0.84
1:Cc:62:ARG:HG2	3:Ya:861:ILE:HG13	1.58	0.84
1:Cd:62:ARG:HG2	3:Yb:861:ILE:HG13	1.59	0.84
2:Pt:3:ILE:HD11	2:Px:37:VAL:HG21	1.57	0.84
1:E7:45:TYR:OH	1:Dv:73:ASP:OD2	1.96	0.84
1:JJ:62:ARG:HE	3:Xn:624:SER:HB2	1.42	0.84
2:PG:3:ILE:HD11	2:PK:37:VAL:HG21	1.57	0.84
1:Ea:83:ARG:CZ	1:Nb:32:GLU:OE1	2.26	0.84
1:Ev:83:ARG:CZ	1:Nw:32:GLU:OE1	2.26	0.84
1:LN:62:ARG:NE	3:XN:644:VAL:CG1	2.40	0.84
1:HA:62:ARG:HA	3:YD:848:ILE:HD11	1.59	0.84
2:P4:14:ASN:ND2	2:P5:76:ILE:CG1	2.38	0.84
1:JS:32:GLU:CG	1:DS:7:ILE:HD11	2.06	0.84
1:HG:62:ARG:HA	3:YJ:848:ILE:HD11	1.59	0.84
1:NJ:32:GLU:OE1	1:EI:83:ARG:CZ	2.26	0.84
1:CO:62:ARG:HG2	3:YM:861:ILE:HG13	1.59	0.84
1:Hk:62:ARG:HA	3:Yn:848:ILE:HD11	1.59	0.84
1:JC:62:ARG:HG2	3:Xr:627:VAL:HG21	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EC:83:ARG:CZ	1:ND:32:GLU:OE1	2.26	0.84
1:EC:84:VAL:HA	1:Dq:25:ASP:OD2	1.77	0.84
1:M7:31:ALA:O	1:Mw:83:ARG:HD2	1.78	0.84
3:XL:621:VAL:CG2	1:Dl:58:ASN:HD21	1.83	0.84
1:Ec:83:ARG:CZ	1:Nd:32:GLU:OE1	2.26	0.84
1:HU:62:ARG:HA	3:Yc:848:ILE:HD11	1.59	0.84
1:Ex:83:ARG:CZ	1:Nt:32:GLU:OE1	2.25	0.84
1:H0:62:ARG:HA	3:Y8:848:ILE:HD11	1.59	0.84
3:XT:626:LEU:HD22	1:Ja:65:ALA:HB3	1.57	0.84
3:XK:621:VAL:HG22	1:Dm:58:ASN:HD21	1.41	0.84
2:Pe:3:ILE:HD11	2:Pi:37:VAL:HG21	1.57	0.84
1:Cv:62:ARG:HG2	3:Yt:861:ILE:HG13	1.58	0.84
2:Pk:3:ILE:HD11	2:Po:37:VAL:HG21	1.57	0.84
1:Er:83:ARG:CZ	1:Ns:32:GLU:OE1	2.26	0.84
1:Jj:62:ARG:CZ	3:XX:624:SER:HB2	2.08	0.84
1:EK:83:ARG:CZ	1:NG:32:GLU:OE1	2.25	0.84
1:HO:62:ARG:HG3	3:YM:848:ILE:HD13	1.56	0.84
1:Hx:62:ARG:HA	3:Yv:848:ILE:HD11	1.59	0.84
1:Cm:62:ARG:HG2	3:Yk:861:ILE:HG13	1.58	0.84
1:DA:73:ASP:OD2	1:E8:45:TYR:OH	1.95	0.84
1:EE:83:ARG:CZ	1:NA:32:GLU:OE1	2.25	0.84
1:FD:28:THR:HG21	1:DD:85:HIS:CE1	2.00	0.84
1:HE:62:ARG:HG2	3:YC:848:ILE:HD13	1.54	0.84
1:E1:83:ARG:CZ	1:N2:32:GLU:OE1	2.26	0.84
1:E0:83:ARG:CZ	1:N6:32:GLU:OE1	2.25	0.84
1:J7:32:GLU:HA	1:D7:83:ARG:HH22	1.41	0.84
1:L8:30:ALA:O	1:Jv:82:ALA:HB3	1.76	0.84
1:HT:62:ARG:HA	3:YR:848:ILE:HD11	1.59	0.84
1:FJ:35:LEU:CB	1:DJ:87:GLU:CD	2.35	0.84
1:Cg:62:ARG:HG2	3:Ye:861:ILE:HG13	1.58	0.84
1:Hj:62:ARG:HA	3:Yr:848:ILE:HD11	1.59	0.84
1:LN:62:ARG:NH1	3:XN:644:VAL:HG11	1.93	0.84
1:DB:79:HIS:CD2	3:Xv:618:GLY:HA2	2.12	0.84
1:JD:79:HIS:CD2	3:Xh:628:THR:OG1	2.31	0.84
1:F4:28:THR:HG21	1:D4:87:GLU:HG2	1.58	0.84
1:EN:83:ARG:CZ	1:NO:32:GLU:OE1	2.26	0.84
1:DW:35:LEU:HD21	1:Ej:91:ILE:HG21	1.59	0.84
1:Et:83:ARG:CZ	1:Nu:32:GLU:OE1	2.26	0.84
1:Ej:83:ARG:CZ	1:Np:32:GLU:OE1	2.25	0.84
1:C3:62:ARG:HG2	3:Y1:861:ILE:HG13	1.58	0.84
1:E7:77:ALA:HB1	1:Dv:18:VAL:HG11	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EG:83:ARG:CZ	1:NH:32:GLU:OE1	2.26	0.84
1:HK:62:ARG:HG3	3:YI:848:ILE:HD13	1.60	0.84
3:XL:624:SER:HB2	1:Jl:62:ARG:NH2	1.92	0.84
1:Fb:18:VAL:HG22	1:Db:11:MET:HE3	0.84	0.84
1:EA:83:ARG:CZ	1:NB:32:GLU:OE1	2.26	0.83
1:G1:32:GLU:HB2	1:K1:7:ILE:HD11	1.60	0.83
1:E8:83:ARG:CZ	1:N9:32:GLU:OE1	2.26	0.83
1:EP:83:ARG:CZ	1:NQ:32:GLU:OE1	2.26	0.83
1:GS:32:GLU:HB2	1:KS:7:ILE:HD11	1.61	0.83
1:HP:62:ARG:HA	3:YS:848:ILE:HD11	1.59	0.83
1:LQ:80:ILE:HD12	3:XQ:638:ILE:HG21	1.60	0.83
1:GO:32:GLU:HB2	1:KO:7:ILE:HD11	1.60	0.83
1:EV:83:ARG:CZ	1:NW:32:GLU:OE1	2.26	0.83
1:EZ:83:ARG:CZ	1:NV:32:GLU:OE1	2.25	0.83
1:Gc:32:GLU:HB2	1:Kc:7:ILE:HD11	1.60	0.83
1:Dv:79:HIS:CA	3:X8:617:SER:O	2.26	0.83
1:Dn:19:PRO:HG3	1:Dn:72:GLY:HA3	1.60	0.83
1:ET:83:ARG:CZ	1:NP:32:GLU:OE1	2.25	0.83
1:CX:62:ARG:HG2	3:YV:861:ILE:HG13	1.58	0.83
1:Gx:32:GLU:HB2	1:Kx:7:ILE:HD11	1.60	0.83
1:Ho:62:ARG:HA	3:Ym:848:ILE:HD11	1.59	0.83
1:Ep:83:ARG:CZ	1:Nq:32:GLU:OE1	2.26	0.83
1:HE:62:ARG:HG3	3:YC:848:ILE:HD13	1.61	0.83
1:G7:32:GLU:HB2	1:K7:7:ILE:HD11	1.61	0.83
1:GG:32:GLU:HB2	1:KG:7:ILE:HD11	1.61	0.83
1:HK:62:ARG:HG2	3:YI:848:ILE:HD13	1.54	0.83
1:EM:90:ASN:HB3	1:D6:97:GLN:HA	1.59	0.83
1:Ee:83:ARG:CZ	1:Nf:32:GLU:OE1	2.26	0.83
1:Ei:83:ARG:CZ	1:Ne:32:GLU:OE1	2.25	0.83
1:EX:83:ARG:CZ	1:NY:32:GLU:OE1	2.26	0.83
2:PW:14:ASN:ND2	2:PX:76:ILE:CG1	2.31	0.83
1:Jw:32:GLU:CB	1:Dw:7:ILE:HD11	2.08	0.83
1:Eo:83:ARG:CZ	1:Nk:32:GLU:OE1	2.25	0.83
1:DM:31:ALA:HB1	1:DM:56:ALA:HB1	1.60	0.83
1:GA:32:GLU:HB2	1:KA:7:ILE:HD11	1.61	0.83
1:Di:35:LEU:HD21	1:EV:91:ILE:HG21	1.61	0.83
1:Hi:62:ARG:HA	3:Yg:848:ILE:HD11	1.59	0.83
1:Hu:62:ARG:HG2	3:Yx:848:ILE:HD13	1.53	0.83
1:CS:62:ARG:HG2	3:YQ:861:ILE:HG13	1.59	0.83
1:DT:35:LEU:HD21	1:EG:91:ILE:HG21	1.61	0.83
1:Ek:83:ARG:CZ	1:Nl:32:GLU:OE1	2.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:79:HIS:CD2	3:Xr:617:SER:O	2.30	0.83
1:GC:32:GLU:HB2	1:KC:7:ILE:HD11	1.60	0.83
2:PA:76:ILE:CG1	2:PE:14:ASN:ND2	2.38	0.83
2:P1:76:ILE:CG1	2:P5:14:ASN:ND2	2.38	0.83
3:X6:643:TYR:OH	1:DQ:54:THR:O	1.92	0.83
1:Eg:83:ARG:CZ	1:Nh:32:GLU:OE1	2.26	0.83
1:GV:32:GLU:HB2	1:KV:7:ILE:HD11	1.60	0.83
2:PY:14:ASN:ND2	2:PZ:76:ILE:CG1	2.38	0.83
2:Pa:3:ILE:HD11	2:PU:37:VAL:HG21	1.57	0.83
1:Fn:35:LEU:N	1:Dn:87:GLU:CD	2.28	0.83
1:DY:36:VAL:HA	1:DY:95:ALA:HB2	1.60	0.83
1:EC:45:TYR:OH	1:Dq:73:ASP:OD2	1.96	0.83
1:DP:73:ASP:OD2	1:EN:45:TYR:OH	1.95	0.83
1:Gi:32:GLU:HB2	1:Ki:7:ILE:HD11	1.60	0.83
2:Pd:14:ASN:ND2	2:PU:76:ILE:CG1	2.38	0.83
1:Go:32:GLU:HB2	1:Ko:7:ILE:HD11	1.61	0.83
1:Dw:65:ALA:HB3	3:XM:616:ILE:HD11	1.59	0.83
1:DB:79:HIS:HD2	3:Xv:617:SER:C	1.86	0.83
1:E6:83:ARG:CZ	1:N7:32:GLU:OE1	2.26	0.83
1:ER:83:ARG:CZ	1:NS:32:GLU:OE1	2.26	0.83
1:GI:32:GLU:HB2	1:KI:7:ILE:HD11	1.60	0.83
2:PG:76:ILE:CG1	2:PK:14:ASN:ND2	2.38	0.83
1:Lf:80:ILE:HD12	3:Xf:638:ILE:HG21	1.60	0.83
1:LX:62:ARG:CZ	3:XX:644:VAL:HG21	2.07	0.83
1:Fb:35:LEU:HD23	1:Db:91:ILE:CG2	2.09	0.83
1:Cs:62:ARG:HG2	3:Yq:861:ILE:HG13	1.59	0.83
1:Gs:32:GLU:HB2	1:Ks:7:ILE:HD11	1.61	0.83
1:D3:97:GLN:HA	1:Eb:90:ASN:HB3	1.59	0.83
1:OS:85:HIS:NE2	1:DS:83:ARG:NH1	2.26	0.83
1:DC:55:GLY:O	3:Xr:643:TYR:CE2	1.96	0.83
1:D2:97:GLN:HA	1:Ef:90:ASN:HB3	1.61	0.83
1:CJ:62:ARG:HG2	3:YH:861:ILE:HG13	1.59	0.83
1:Cr:62:ARG:HG2	3:Yp:861:ILE:HG13	1.58	0.83
1:Hj:62:ARG:HG2	3:Yr:848:ILE:HD13	1.54	0.83
1:H1:62:ARG:HA	3:Y4:848:ILE:HD11	1.59	0.82
1:H0:62:ARG:HG3	3:Y8:848:ILE:HD13	1.60	0.82
1:HF:62:ARG:HA	3:YN:848:ILE:HD11	1.59	0.82
1:HF:62:ARG:HG3	3:YN:848:ILE:HD13	1.60	0.82
1:Gh:32:GLU:HB2	1:Kh:7:ILE:HD11	1.61	0.82
1:CY:62:ARG:HG2	3:YW:861:ILE:HG13	1.59	0.82
1:HZ:62:ARG:HG3	3:YX:848:ILE:HD13	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FU:72:GLY:HA2	1:DU:77:ALA:HB2	1.60	0.82
1:Gd:32:GLU:HB2	1:Kd:7:ILE:HD11	1.60	0.82
1:Gt:32:GLU:HB2	1:Kt:7:ILE:HD11	1.61	0.82
1:CD:62:ARG:HG2	3:YB:861:ILE:HG13	1.59	0.82
1:HU:62:ARG:HG3	3:Yc:848:ILE:HD13	1.60	0.82
1:Dt:73:ASP:OD2	1:Er:45:TYR:OH	1.95	0.82
1:Cn:62:ARG:HG2	3:Yl:861:ILE:HG13	1.59	0.82
1:Jn:62:ARG:CZ	3:XY:624:SER:HB2	2.10	0.82
1:Nn:33:VAL:H	1:Em:83:ARG:HH22	1.23	0.82
1:Hp:62:ARG:HA	3:Ys:848:ILE:HD11	1.59	0.82
3:XC:621:VAL:HG21	1:Du:58:ASN:ND2	1.92	0.82
1:L8:65:ALA:C	3:X8:636:GLN:HE21	1.86	0.82
2:P6:76:ILE:CG1	2:P0:14:ASN:ND2	2.38	0.82
1:GR:32:GLU:HB2	1:KR:7:ILE:HD11	1.60	0.82
1:Ch:62:ARG:HG2	3:Yf:861:ILE:HG13	1.59	0.82
1:Ha:62:ARG:HA	3:Yd:848:ILE:HD11	1.59	0.82
1:Lu:80:ILE:HD12	3:Xu:638:ILE:HG21	1.60	0.82
1:Gn:32:GLU:HB2	1:Kn:7:ILE:HD11	1.61	0.82
3:Xm:620:SER:O	1:JF:62:ARG:HD3	1.79	0.82
1:DB:79:HIS:CD2	3:Xv:617:SER:O	2.32	0.82
1:H6:62:ARG:HA	3:Y9:848:ILE:HD11	1.59	0.82
3:XK:616:ILE:CG2	1:Dm:80:ILE:CD1	2.41	0.82
1:DX:54:THR:C	3:Xo:643:TYR:OH	2.22	0.82
1:Fw:35:LEU:HD21	1:Dw:91:ILE:CG2	2.08	0.82
1:Hx:62:ARG:HG2	3:Yv:848:ILE:HD13	1.54	0.82
1:C9:62:ARG:HG2	3:Y7:861:ILE:HG13	1.59	0.82
1:HV:62:ARG:HA	3:YY:848:ILE:HD11	1.59	0.82
1:Gv:32:GLU:HB2	1:Kv:7:ILE:HD11	1.61	0.82
1:GE:32:GLU:HB2	1:KE:7:ILE:HD11	1.60	0.82
1:G6:32:GLU:HB2	1:K6:7:ILE:HD11	1.61	0.82
1:GK:32:GLU:HB2	1:KK:7:ILE:HD11	1.61	0.82
2:PL:76:ILE:CG1	2:PF:14:ASN:ND2	2.38	0.82
1:Gg:32:GLU:HB2	1:Kg:7:ILE:HD11	1.61	0.82
1:GY:32:GLU:HB2	1:KY:7:ILE:HD11	1.61	0.82
1:Jn:62:ARG:NH2	3:XY:624:SER:HB2	1.94	0.82
1:J6:79:HIS:CG	3:XN:628:THR:CG2	2.58	0.82
1:D2:55:GLY:C	3:Xg:643:TYR:OH	2.22	0.82
2:PV:76:ILE:CG1	2:PZ:14:ASN:ND2	2.38	0.82
1:Gm:32:GLU:HB2	1:Km:7:ILE:HD11	1.61	0.82
1:LN:80:ILE:HD12	3:XN:638:ILE:CG2	2.09	0.82
1:ES:91:ILE:HG21	1:Da:35:LEU:HD21	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XT:621:VAL:HG22	1:Da:58:ASN:HD21	1.44	0.82
1:Ga:32:GLU:HB2	1:Ka:7:ILE:HD11	1.61	0.82
1:Dx:35:LEU:HD21	1:Ek:91:ILE:HG21	1.61	0.82
1:Gk:32:GLU:HB2	1:Kk:7:ILE:HD11	1.60	0.82
1:Gq:32:GLU:HB2	1:Kq:7:ILE:HD11	1.61	0.82
1:J2:62:ARG:HH21	3:Xg:624:SER:HB2	1.44	0.82
2:PO:14:ASN:ND2	2:PF:76:ILE:CG1	2.38	0.82
1:LN:62:ARG:NE	3:XN:644:VAL:HG11	1.92	0.82
1:EC:76:VAL:HG11	1:Dq:73:ASP:OD1	1.79	0.81
1:HR:62:ARG:HG3	3:YP:848:ILE:HD13	1.62	0.81
1:GJ:32:GLU:HB2	1:KJ:7:ILE:HD11	1.60	0.81
1:GN:32:GLU:HB2	1:KN:7:ILE:HD11	1.60	0.81
1:Hx:62:ARG:HG3	3:Yv:848:ILE:HD13	1.60	0.81
1:DE:35:LEU:HD21	1:E1:91:ILE:HG21	1.61	0.81
1:GD:32:GLU:HB2	1:KD:7:ILE:HD11	1.61	0.81
1:G5:32:GLU:HB2	1:K5:7:ILE:HD11	1.60	0.81
1:FJ:17:LEU:N	1:DJ:13:GLU:OE2	2.12	0.81
1:Ge:32:GLU:HB2	1:Ke:7:ILE:HD11	1.61	0.81
1:Ao:61:VAL:HG12	3:Yn:795:ILE:HD12	1.62	0.81
2:Pr:37:VAL:HG21	2:Ps:3:ILE:HD11	1.62	0.81
1:DC:61:VAL:HG12	3:Xr:616:ILE:HD12	1.60	0.81
1:LB:80:ILE:HD12	3:XB:638:ILE:HG21	1.60	0.81
1:A5:61:VAL:HG12	3:Y4:795:ILE:HD12	1.62	0.81
1:G4:32:GLU:HB2	1:K4:7:ILE:HD11	1.60	0.81
1:H1:62:ARG:HG2	3:Y4:848:ILE:HD13	1.61	0.81
2:P1:37:VAL:HG21	2:P2:3:ILE:HD11	1.63	0.81
2:P6:37:VAL:HG21	2:P7:3:ILE:HD11	1.63	0.81
1:GM:32:GLU:HB2	1:KM:7:ILE:HD11	1.61	0.81
1:Ai:61:VAL:HG12	3:Yh:795:ILE:HD12	1.62	0.81
2:Pt:76:ILE:CG1	2:Px:14:ASN:ND2	2.38	0.81
1:Hm:62:ARG:HG2	3:Yk:848:ILE:HD13	1.61	0.81
1:Hq:62:ARG:HG2	3:Yj:848:ILE:HD13	1.53	0.81
1:B8:45:TYR:OH	1:I7:73:ASP:OD2	1.98	0.81
2:P8:37:VAL:HG21	2:P9:3:ILE:HD11	1.62	0.81
2:PP:76:ILE:CG1	2:PT:14:ASN:ND2	2.38	0.81
1:AF:61:VAL:HG12	3:YO:795:ILE:HD12	1.62	0.81
1:DL:35:LEU:HD21	1:Ew:91:ILE:HG21	1.63	0.81
1:Ev:88:VAL:HG21	1:D7:25:ASP:CB	2.09	0.81
3:Ym:705:ASN:ND2	1:Em:82:ALA:H	1.78	0.81
1:G3:32:GLU:HB2	1:K3:7:ILE:HD11	1.61	0.81
1:GL:32:GLU:HB2	1:KL:7:ILE:HD11	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NM:30:ALA:O	1:EL:82:ALA:CB	2.27	0.81
1:BX:45:TYR:OH	1:IW:73:ASP:OD2	1.98	0.81
1:Bv:45:TYR:OH	1:Iu:73:ASP:OD2	1.98	0.81
1:Ep:84:VAL:HA	1:Dh:25:ASP:OD2	1.80	0.81
1:Hj:62:ARG:HG3	3:Yr:848:ILE:HD13	1.60	0.81
1:Hr:62:ARG:HG3	3:Yp:848:ILE:HD13	1.63	0.81
1:C1:62:ARG:HG2	3:Y4:861:ILE:HG13	1.63	0.81
1:IO:58:ASN:HB3	3:XO:729:GLU:HB2	1.63	0.81
3:XL:624:SER:HB2	1:Jl:62:ARG:CZ	2.11	0.81
1:BZ:45:TYR:OH	1:IY:73:ASP:OD2	1.99	0.81
1:HX:62:ARG:HG3	3:YV:848:ILE:HD13	1.63	0.81
2:PV:37:VAL:HG21	2:PW:3:ILE:HD11	1.62	0.81
1:Bc:45:TYR:OH	1:Ib:73:ASP:OD2	1.98	0.81
1:Ax:61:VAL:HG12	3:Yw:795:ILE:HD12	1.62	0.81
1:BC:45:TYR:OH	1:IB:73:ASP:OD2	1.98	0.81
2:PN:37:VAL:HG21	2:PO:3:ILE:HD11	1.62	0.81
1:Hg:62:ARG:HG2	3:Ye:848:ILE:HD13	1.62	0.81
2:Pa:76:ILE:CG1	2:PU:14:ASN:ND2	2.38	0.81
1:Br:45:TYR:OH	1:Iq:73:ASP:OD2	1.98	0.81
1:Fh:35:LEU:HD21	1:Dh:91:ILE:HG21	1.62	0.81
1:HA:62:ARG:HG2	3:YD:848:ILE:HD13	1.61	0.81
1:J7:79:HIS:HD2	3:Xw:628:THR:OG1	1.63	0.81
1:ER:91:ILE:CG2	1:D4:35:LEU:CD2	2.59	0.81
1:HT:62:ARG:HG3	3:YR:848:ILE:HD13	1.61	0.81
1:JR:62:ARG:NE	3:X5:624:SER:HB2	1.95	0.81
1:BI:45:TYR:OH	1:IH:73:ASP:OD2	1.98	0.81
3:XK:616:ILE:HG22	1:Dm:80:ILE:HD12	1.62	0.81
1:Hb:62:ARG:HG2	3:YU:848:ILE:HD13	1.53	0.81
1:Ev:84:VAL:CA	1:D7:25:ASP:OD2	2.27	0.81
1:Aj:61:VAL:HG12	3:Ys:795:ILE:HD12	1.62	0.81
3:XX:616:ILE:HD13	1:Dj:78:ALA:CB	2.11	0.81
1:B3:45:TYR:OH	1:I2:73:ASP:OD2	1.98	0.81
1:D2:55:GLY:HA2	3:Xg:643:TYR:HH	0.87	0.81
1:HG:62:ARG:HG2	3:YJ:848:ILE:HD13	1.61	0.81
2:PI:37:VAL:HG21	2:PJ:3:ILE:HD11	1.63	0.81
1:Bi:45:TYR:OH	1:Ih:73:ASP:OD2	1.99	0.81
1:Hi:62:ARG:HG3	3:Yg:848:ILE:HD13	1.60	0.81
1:Gw:32:GLU:HB2	1:Kw:7:ILE:HD11	1.61	0.81
1:Bo:45:TYR:OH	1:In:73:ASP:OD2	1.99	0.81
1:HC:62:ARG:HA	3:YA:848:ILE:HD11	1.63	0.81
1:H5:62:ARG:HG3	3:Y3:848:ILE:HD13	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G8:32:GLU:HB2	1:K8:7:ILE:HD11	1.61	0.81
1:I9:58:ASN:HB3	3:X9:729:GLU:HB2	1.63	0.81
1:GP:32:GLU:HB2	1:KP:7:ILE:HD11	1.61	0.81
1:GT:32:GLU:HB2	1:KT:7:ILE:HD11	1.60	0.81
1:HP:62:ARG:HG2	3:YS:848:ILE:HD13	1.61	0.81
1:HN:62:ARG:HA	3:YL:848:ILE:HD11	1.63	0.81
1:Jb:62:ARG:HE	3:X4:624:SER:HB2	1.46	0.81
1:Is:58:ASN:HB3	3:Xs:729:GLU:HB2	1.63	0.81
1:D2:61:VAL:HG12	3:Xg:616:ILE:CD1	2.11	0.80
1:H3:62:ARG:HA	3:Y1:848:ILE:HD11	1.63	0.80
1:G9:32:GLU:HB2	1:K9:7:ILE:HD11	1.61	0.80
2:PP:37:VAL:HG21	2:PQ:3:ILE:HD11	1.62	0.80
1:HI:62:ARG:HA	3:YG:848:ILE:HD11	1.63	0.80
2:Pe:76:ILE:CG1	2:Pi:14:ASN:ND2	2.38	0.80
1:Bx:45:TYR:OH	1:Iw:73:ASP:OD2	1.99	0.80
1:Ho:62:ARG:HG3	3:Ym:848:ILE:HD13	1.61	0.80
1:Gb:32:GLU:HB2	1:Kb:7:ILE:HD11	1.61	0.80
3:Ym:703:THR:C	1:Em:79:HIS:CG	2.49	0.80
1:Hr:62:ARG:HA	3:Yp:848:ILE:HD11	1.63	0.80
1:HC:62:ARG:HG3	3:YA:848:ILE:HD13	1.62	0.80
3:XC:617:SER:O	1:Du:79:HIS:CG	2.34	0.80
1:F7:35:LEU:HD23	1:D7:91:ILE:CG2	2.09	0.80
1:AK:61:VAL:HG12	3:YJ:795:ILE:HD12	1.62	0.80
1:HG:62:ARG:HG3	3:YJ:848:ILE:HD13	1.64	0.80
1:LX:62:ARG:NH2	3:XX:644:VAL:HG22	1.97	0.80
1:Hc:62:ARG:HA	3:Ya:848:ILE:HD11	1.63	0.80
1:Ev:85:HIS:NE2	1:D7:28:THR:HG22	1.95	0.80
2:Pt:37:VAL:HG21	2:Pu:3:ILE:HD11	1.63	0.80
1:Fn:17:LEU:HD23	1:Dn:39:GLN:NE2	1.95	0.80
2:Pk:76:ILE:CG1	2:Po:14:ASN:ND2	2.38	0.80
1:J6:80:ILE:HD12	3:XN:630:ASN:CG	2.04	0.80
1:AE:61:VAL:HG12	3:YD:795:ILE:HD12	1.62	0.80
1:JS:62:ARG:NH2	3:Xb:624:SER:HB2	1.95	0.80
1:CL:62:ARG:HG2	3:YO:861:ILE:HG13	1.63	0.80
1:Bg:45:TYR:OH	1:If:73:ASP:OD2	1.98	0.80
1:Hg:62:ARG:HG3	3:Ye:848:ILE:HD13	1.62	0.80
1:HW:62:ARG:HG2	3:YZ:848:ILE:HD13	1.53	0.80
1:HA:62:ARG:HG3	3:YD:848:ILE:HD13	1.64	0.80
1:L5:62:ARG:HH21	3:X5:644:VAL:CG2	1.91	0.80
1:AN:61:VAL:HG12	3:YM:795:ILE:HD12	1.64	0.80
3:XZ:621:VAL:HG22	1:DI:58:ASN:HD21	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LN:62:ARG:HH21	3:XN:644:VAL:HG22	1.45	0.80
1:HI:62:ARG:HG3	3:YG:848:ILE:HD13	1.63	0.80
1:BF:45:TYR:OH	1:IO:73:ASP:OD2	1.99	0.80
1:CV:62:ARG:HG2	3:YY:861:ILE:HG13	1.63	0.80
1:Ca:62:ARG:HG2	3:Yd:861:ILE:HG13	1.63	0.80
1:Bm:45:TYR:OH	1:Il:73:ASP:OD2	1.98	0.80
1:Fn:17:LEU:HD23	1:Dn:39:GLN:HE21	1.45	0.80
1:H6:62:ARG:HG3	3:Y9:848:ILE:HD13	1.64	0.80
1:BR:45:TYR:OH	1:IQ:73:ASP:OD2	1.98	0.80
1:BT:45:TYR:OH	1:IS:73:ASP:OD2	1.99	0.80
1:AZ:61:VAL:HG12	3:YY:795:ILE:HD12	1.62	0.80
1:Ac:61:VAL:HG12	3:Yb:795:ILE:HD12	1.64	0.80
1:Gr:32:GLU:HB2	1:Kr:7:ILE:HD11	1.60	0.80
1:CA:62:ARG:HG2	3:YD:861:ILE:HG13	1.63	0.80
1:B5:45:TYR:OH	1:I4:73:ASP:OD2	1.99	0.80
1:D2:78:ALA:O	3:Xg:617:SER:N	2.13	0.80
1:A0:61:VAL:HG12	3:Y9:795:ILE:HD12	1.62	0.80
1:F7:28:THR:CG2	1:D7:87:GLU:CG	2.56	0.80
1:CG:62:ARG:HG2	3:YJ:861:ILE:HG13	1.63	0.80
2:PG:37:VAL:HG21	2:PH:3:ILE:HD11	1.63	0.80
1:BN:45:TYR:OH	1:IM:73:ASP:OD2	1.98	0.80
1:GX:32:GLU:HB2	1:KX:7:ILE:HD11	1.60	0.80
1:HX:62:ARG:HA	3:YV:848:ILE:HD11	1.63	0.80
1:Hp:62:ARG:HG3	3:Ys:848:ILE:HD13	1.64	0.80
1:Fl:28:THR:HG21	1:Dl:87:GLU:HB2	1.64	0.80
2:PA:37:VAL:HG21	2:PB:3:ILE:HD11	1.63	0.80
2:PL:37:VAL:HG21	2:PM:3:ILE:HD11	1.63	0.80
1:GZ:32:GLU:HB2	1:KZ:7:ILE:HD11	1.61	0.80
1:DB:79:HIS:CD2	3:Xv:618:GLY:CA	2.65	0.80
1:JD:62:ARG:NH1	3:Xh:622:ASP:O	2.14	0.80
2:P3:37:VAL:HG21	2:P4:3:ILE:HD11	1.63	0.80
1:CP:62:ARG:HG2	3:YS:861:ILE:HG13	1.63	0.80
1:Ce:62:ARG:HG2	3:Yh:861:ILE:HG13	1.63	0.80
1:DX:80:ILE:CD1	3:Xo:616:ILE:CG2	2.51	0.80
2:Pa:37:VAL:HG21	2:Pb:3:ILE:HD11	1.62	0.80
1:Ck:62:ARG:HG2	3:Yn:861:ILE:HG13	1.63	0.80
1:Hm:62:ARG:HG3	3:Yk:848:ILE:HD13	1.63	0.80
1:Hm:62:ARG:HA	3:Yk:848:ILE:HD11	1.63	0.80
1:D2:80:ILE:HD11	3:Xg:616:ILE:HG21	1.64	0.79
1:D0:80:ILE:CD1	3:XR:616:ILE:CG2	2.57	0.79
1:Hg:62:ARG:HA	3:Ye:848:ILE:HD11	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fb:18:VAL:HG23	1:Db:13:GLU:OE2	1.81	0.79
1:Gp:32:GLU:HB2	1:Kp:7:ILE:HD11	1.61	0.79
1:J6:80:ILE:HD11	3:XN:630:ASN:ND2	1.90	0.79
1:C6:62:ARG:HG2	3:Y9:861:ILE:HG13	1.63	0.79
1:JH:62:ARG:HG2	3:Xa:627:VAL:HG21	1.64	0.79
1:Ag:61:VAL:HG12	3:Yf:795:ILE:HD12	1.64	0.79
1:He:62:ARG:HG2	3:Yh:848:ILE:HD13	1.61	0.79
3:Xi:628:THR:HG1	1:Jp:79:HIS:CA	1.85	0.79
1:AU:61:VAL:HG12	3:Yd:795:ILE:HD12	1.62	0.79
1:HV:62:ARG:HG3	3:YY:848:ILE:HD13	1.64	0.79
1:Hc:62:ARG:HG3	3:Ya:848:ILE:HD13	1.63	0.79
1:Hr:62:ARG:HG2	3:Yp:848:ILE:HD13	1.62	0.79
1:FD:17:LEU:HD23	1:DD:47:THR:HG21	1.65	0.79
1:AQ:69:GLU:O	3:YT:841:PRO:CG	2.27	0.79
3:Xi:627:VAL:CG1	1:Jp:80:ILE:HD11	2.12	0.79
1:Ea:45:TYR:OH	1:DS:73:ASP:OD2	2.01	0.79
1:Am:61:VAL:HG12	3:Yl:795:ILE:HD12	1.64	0.79
1:D3:79:HIS:CD2	3:Xc:617:SER:O	2.35	0.79
1:H3:62:ARG:HG3	3:Y1:848:ILE:HD13	1.63	0.79
1:HR:62:ARG:HA	3:YP:848:ILE:HD11	1.63	0.79
1:HL:62:ARG:HG3	3:YO:848:ILE:HD13	1.64	0.79
2:Pe:37:VAL:HG21	2:Pf:3:ILE:HD11	1.62	0.79
1:DX:58:ASN:ND2	3:Xo:621:VAL:CG2	2.44	0.79
2:Pc:37:VAL:HG21	2:Pd:3:ILE:HD11	1.62	0.79
1:Au:69:GLU:O	3:Yx:841:PRO:CG	2.27	0.79
1:Ev:77:ALA:HB2	1:D7:72:GLY:HA2	1.64	0.79
1:HO:62:ARG:HG2	3:YM:848:ILE:HD13	1.61	0.79
1:Hv:62:ARG:HA	3:Yt:848:ILE:HD11	1.64	0.79
2:Pk:37:VAL:HG21	2:Pl:3:ILE:HD11	1.63	0.79
1:Bj:45:TYR:OH	1:Is:73:ASP:OD2	1.99	0.79
1:Nm:25:ASP:HA	1:Lm:88:VAL:HG21	1.65	0.79
1:DB:87:GLU:HB2	1:FB:28:THR:HG21	1.65	0.79
1:AT:61:VAL:HG12	3:YS:795:ILE:HD12	1.62	0.79
1:HP:62:ARG:HG3	3:YS:848:ILE:HD13	1.64	0.79
1:AI:61:VAL:HG12	3:YH:795:ILE:HD12	1.64	0.79
1:HN:62:ARG:HG3	3:YL:848:ILE:HD13	1.63	0.79
3:YL:708:ALA:HB2	1:EL:62:ARG:NH2	1.97	0.79
1:Hv:62:ARG:HG3	3:Yt:848:ILE:HD13	1.62	0.79
2:Pm:37:VAL:HG21	2:Pn:3:ILE:HD11	1.63	0.79
3:XE:627:VAL:CG1	1:Jg:80:ILE:HD11	2.11	0.79
1:C5:62:ARG:HG2	3:Y3:861:ILE:HG13	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F7:28:THR:HG21	1:D7:87:GLU:HG3	1.62	0.79
1:L7:53:GLU:OE2	1:DM:55:GLY:CA	2.30	0.79
1:CF:62:ARG:HG2	3:YN:861:ILE:HG13	1.65	0.79
1:Id:58:ASN:HB3	3:Xd:729:GLU:HB2	1.63	0.79
1:Hk:62:ARG:HG2	3:Yn:848:ILE:HD13	1.61	0.79
1:AC:61:VAL:HG12	3:YB:795:ILE:HD12	1.64	0.79
1:HN:62:ARG:HG2	3:YL:848:ILE:HD13	1.62	0.79
1:Lc:62:ARG:HG2	3:Xc:633:GLY:O	1.82	0.79
1:Ht:62:ARG:HG3	3:Yw:848:ILE:HD13	1.64	0.79
2:Pp:37:VAL:HG21	2:Pq:3:ILE:HD11	1.63	0.79
1:N4:29:LYS:C	1:Db:29:LYS:HZ2	1.86	0.79
1:FJ:96:PRO:HB2	1:DJ:91:ILE:HG22	1.63	0.79
2:PN:14:ASN:ND2	2:PO:76:ILE:CG1	2.43	0.79
1:Eg:85:HIS:CE1	1:DD:28:THR:CG2	2.66	0.79
1:Ct:62:ARG:HG2	3:Yw:861:ILE:HG13	1.63	0.79
1:A3:61:VAL:HG12	3:Y2:795:ILE:HD12	1.64	0.78
1:L7:62:ARG:NE	3:X7:644:VAL:HG21	1.97	0.78
2:PJ:14:ASN:ND2	2:PK:76:ILE:CG1	2.38	0.78
2:PV:64:SER:HB3	2:PV:67:TYR:HB2	1.66	0.78
2:PX:37:VAL:HG21	2:PY:3:ILE:HD11	1.63	0.78
1:Ab:61:VAL:HG12	3:Ya:795:ILE:HD12	1.66	0.78
1:Jb:62:ARG:NE	3:X4:624:SER:HB2	1.98	0.78
1:B0:45:TYR:OH	1:I9:73:ASP:OD2	1.99	0.78
1:AP:61:VAL:HG12	3:YT:795:ILE:HD12	1.65	0.78
1:JR:62:ARG:HG2	3:X5:627:VAL:CG2	2.13	0.78
1:EX:85:HIS:NE2	1:Dn:28:THR:HG22	1.96	0.78
1:Aq:61:VAL:HG12	3:Yp:795:ILE:HD12	1.66	0.78
1:A2:61:VAL:HG12	3:Y1:795:ILE:HD12	1.66	0.78
1:A7:61:VAL:HG12	3:Y6:795:ILE:HD12	1.66	0.78
1:BK:45:TYR:OH	1:IJ:73:ASP:OD2	1.99	0.78
1:EX:85:HIS:CE1	1:Dn:28:THR:HG22	2.18	0.78
1:HV:62:ARG:HG2	3:YY:848:ILE:HD13	1.61	0.78
1:Aw:61:VAL:HG12	3:Yv:795:ILE:HD12	1.66	0.78
1:Mv:72:GLY:CA	1:Jv:77:ALA:CB	2.52	0.78
2:Pt:14:ASN:ND2	2:Pu:76:ILE:CG1	2.43	0.78
2:Pn:14:ASN:ND2	2:Po:76:ILE:CG1	2.38	0.78
3:XC:627:VAL:HG21	1:Ju:62:ARG:HG2	1.65	0.78
1:H8:62:ARG:HA	3:Y6:848:ILE:HD11	1.63	0.78
1:H9:62:ARG:HG2	3:Y7:848:ILE:HD13	1.61	0.78
1:AS:61:VAL:HG12	3:YR:795:ILE:HD12	1.66	0.78
1:Mh:31:ALA:O	1:Mq:83:ARG:HD2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:79:HIS:HD1	1:Dn:71:VAL:HG11	1.47	0.78
1:BE:45:TYR:OH	1:ID:73:ASP:OD2	1.99	0.78
1:EC:88:VAL:HG21	1:Dq:25:ASP:HA	1.64	0.78
1:D2:80:ILE:CD1	3:Xg:616:ILE:CG2	2.59	0.78
1:F7:28:THR:HG23	1:D7:87:GLU:HG3	1.64	0.78
1:AX:61:VAL:HG12	3:YW:795:ILE:HD12	1.64	0.78
1:AY:61:VAL:HG12	3:YX:795:ILE:HD12	1.66	0.78
1:Cp:62:ARG:HG2	3:Ys:861:ILE:HG13	1.63	0.78
1:AB:61:VAL:HG12	3:YA:795:ILE:HD12	1.66	0.78
1:A1:61:VAL:HG12	3:Y5:795:ILE:HD12	1.65	0.78
1:F4:28:THR:HG22	1:D4:85:HIS:CE1	2.18	0.78
1:AH:61:VAL:HG12	3:YG:795:ILE:HD12	1.66	0.78
1:A6:61:VAL:HG12	3:Y0:795:ILE:HD12	1.65	0.78
1:C0:62:ARG:HG2	3:Y8:861:ILE:HG13	1.65	0.78
1:H8:62:ARG:HG3	3:Y6:848:ILE:HD13	1.63	0.78
3:YL:704:GLY:CA	1:EL:79:HIS:CE1	2.66	0.78
1:BU:45:TYR:OH	1:Id:73:ASP:OD2	1.99	0.78
1:DB:21:ILE:HD13	1:Eu:92:LEU:CD2	2.13	0.78
1:A8:61:VAL:HG12	3:Y7:795:ILE:HD12	1.64	0.78
1:JR:62:ARG:NH2	3:X5:624:SER:CB	2.45	0.78
1:Aa:61:VAL:HG12	3:YU:795:ILE:HD12	1.65	0.78
2:Pr:14:ASN:ND2	2:Ps:76:ILE:CG1	2.43	0.78
1:A4:61:VAL:HG12	3:Y3:795:ILE:HD12	1.66	0.78
1:H1:62:ARG:HG3	3:Y4:848:ILE:HD13	1.64	0.78
1:JJ:62:ARG:NE	3:Xn:624:SER:HB2	1.97	0.78
1:AM:61:VAL:HG12	3:YL:795:ILE:HD12	1.66	0.78
1:He:62:ARG:HG3	3:Yh:848:ILE:HD13	1.64	0.78
1:AV:61:VAL:HG12	3:YZ:795:ILE:HD12	1.65	0.78
1:Hk:62:ARG:HG3	3:Yn:848:ILE:HD13	1.64	0.78
1:D2:35:LEU:HD21	1:Ef:91:ILE:HG21	1.66	0.78
1:AR:61:VAL:HG12	3:YQ:795:ILE:HD12	1.64	0.78
1:Af:69:GLU:O	3:Yi:841:PRO:CG	2.27	0.78
1:EU:92:LEU:HD21	1:DH:21:ILE:HD13	1.66	0.78
1:Lc:62:ARG:HB3	3:Xc:633:GLY:CA	2.14	0.78
1:Av:61:VAL:HG12	3:Yu:795:ILE:HD12	1.64	0.78
1:Ap:61:VAL:HG12	3:Yj:795:ILE:HD12	1.65	0.78
1:EC:87:GLU:HB2	1:Dq:28:THR:HG21	1.65	0.77
2:P1:14:ASN:ND2	2:P2:76:ILE:CG1	2.43	0.77
1:Af:61:VAL:HG12	3:Ye:795:ILE:HD12	1.66	0.77
1:Ha:62:ARG:HG3	3:Yd:848:ILE:HD13	1.64	0.77
1:Al:61:VAL:HG12	3:Yk:795:ILE:HD12	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Cj:62:ARG:HG2	3:Yr:861:ILE:HG13	1.65	0.77
1:ER:91:ILE:CG2	1:D4:35:LEU:HD21	2.07	0.77
1:FJ:25:ASP:CB	1:DJ:81:ILE:HD11	2.13	0.77
1:AW:61:VAL:HG12	3:YV:795:ILE:HD12	1.66	0.77
1:CZ:62:ARG:HG2	3:YX:861:ILE:HG13	1.65	0.77
2:PX:14:ASN:ND2	2:PY:76:ILE:CG1	2.43	0.77
1:Cx:62:ARG:HG2	3:Yv:861:ILE:HG13	1.65	0.77
1:Ov:85:HIS:CE1	1:Jv:28:THR:HG22	2.19	0.77
1:Fn:17:LEU:N	1:Dn:13:GLU:OE2	2.17	0.77
1:Ar:61:VAL:HG12	3:Yq:795:ILE:HD12	1.64	0.77
1:Df:31:ALA:HB2	1:Df:59:ALA:HB3	1.65	0.77
1:AB:69:GLU:O	3:YE:841:PRO:CG	2.27	0.77
1:N4:29:LYS:C	1:Db:29:LYS:NZ	2.42	0.77
1:AL:61:VAL:HG12	3:YF:795:ILE:HD12	1.65	0.77
3:XL:622:ASP:O	1:Jl:62:ARG:NH1	2.16	0.77
1:Ci:62:ARG:HG2	3:Yg:861:ILE:HG13	1.65	0.77
1:Ab:69:GLU:O	3:YU:841:PRO:CG	2.27	0.77
1:HS:62:ARG:HG2	3:YQ:848:ILE:HD13	1.61	0.77
1:AO:61:VAL:HG12	3:YN:795:ILE:HD12	1.66	0.77
1:Al:69:GLU:O	3:Yo:841:PRO:CG	2.27	0.77
1:Co:62:ARG:HG2	3:Ym:861:ILE:HG13	1.65	0.77
1:EC:79:HIS:CE1	1:Dq:22:GLU:CD	2.62	0.77
1:CT:62:ARG:HG2	3:YR:861:ILE:HG13	1.65	0.77
1:Cb:62:ARG:HG2	3:YU:861:ILE:HG13	1.67	0.77
1:AA:61:VAL:HG12	3:YE:795:ILE:HD12	1.65	0.77
1:EA:83:ARG:NH2	1:NB:32:GLU:OE1	2.18	0.77
1:EC:83:ARG:NH2	1:ND:32:GLU:OE1	2.18	0.77
1:C2:62:ARG:HG2	3:Y5:861:ILE:HG13	1.67	0.77
2:P1:64:SER:HB3	2:P1:67:TYR:HB2	1.66	0.77
1:A9:61:VAL:HG12	3:Y8:795:ILE:HD12	1.66	0.77
1:AS:69:GLU:O	3:YQ:841:PRO:CG	2.30	0.77
1:AH:69:GLU:O	3:YK:841:PRO:CG	2.27	0.77
1:EG:83:ARG:NH2	1:NH:32:GLU:OE1	2.18	0.77
1:CM:62:ARG:HG2	3:YF:861:ILE:HG13	1.67	0.77
1:EV:83:ARG:NH2	1:NW:32:GLU:OE1	2.18	0.77
1:EX:83:ARG:NH2	1:NY:32:GLU:OE1	2.18	0.77
1:CU:62:ARG:HG2	3:Yc:861:ILE:HG13	1.65	0.77
2:Pm:14:ASN:ND2	2:Pn:76:ILE:CG1	2.43	0.77
1:Ep:83:ARG:NH2	1:Nq:32:GLU:OE1	2.18	0.77
2:Pp:14:ASN:ND2	2:Pq:76:ILE:CG1	2.43	0.77
1:Jv:42:GLY:C	1:Jv:44:GLY:N	2.41	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DB:25:ASP:HA	1:Eu:88:VAL:HG21	1.66	0.77
1:EB:83:ARG:NH2	1:NC:32:GLU:OE1	2.18	0.77
1:A2:69:GLU:O	3:Y5:841:PRO:CG	2.27	0.77
1:E2:83:ARG:NH2	1:N3:32:GLU:OE1	2.18	0.77
1:E6:83:ARG:NH2	1:N7:32:GLU:OE1	2.18	0.77
1:ER:83:ARG:NH2	1:NS:32:GLU:OE1	2.18	0.77
1:AG:61:VAL:HG12	3:YK:795:ILE:HD12	1.65	0.77
1:NJ:32:GLU:OE1	1:EI:83:ARG:NH2	2.18	0.77
3:XK:621:VAL:CG2	1:Dm:58:ASN:ND2	2.47	0.77
3:Xi:621:VAL:CG2	1:Dp:58:ASN:ND2	2.47	0.77
1:Ev:85:HIS:CG	1:D7:28:THR:HG21	2.11	0.77
1:Ak:61:VAL:HG12	3:Yo:795:ILE:HD12	1.65	0.77
1:Nn:30:ALA:O	1:Em:82:ALA:CB	2.29	0.77
1:MB:31:ALA:O	1:Mv:83:ARG:HD2	1.85	0.77
1:EQ:83:ARG:NH2	1:NR:32:GLU:OE1	2.18	0.77
1:EH:83:ARG:NH2	1:NI:32:GLU:OE1	2.18	0.77
3:XK:616:ILE:HD12	1:Dm:61:VAL:HG12	1.66	0.77
1:EM:83:ARG:NH2	1:NN:32:GLU:OE1	2.18	0.77
2:Pg:14:ASN:ND2	2:Ph:76:ILE:CG1	2.43	0.77
1:Eb:83:ARG:NH2	1:Nc:32:GLU:OE1	2.18	0.77
1:Ec:83:ARG:NH2	1:Nd:32:GLU:OE1	2.18	0.77
2:Pc:14:ASN:ND2	2:Pd:76:ILE:CG1	2.43	0.77
1:Et:83:ARG:NH2	1:Nu:32:GLU:OE1	2.18	0.77
1:Do:35:LEU:HD21	1:Es:91:ILE:HG21	1.67	0.77
1:ER:79:HIS:CE1	1:D4:22:GLU:OE1	2.37	0.77
2:PG:64:SER:HB3	2:PG:67:TYR:HB2	1.66	0.77
1:Ae:61:VAL:HG12	3:Yi:795:ILE:HD12	1.65	0.77
1:Eg:83:ARG:NH2	1:Nh:32:GLU:OE1	2.18	0.77
1:CW:62:ARG:HG2	3:YZ:861:ILE:HG13	1.67	0.77
1:Fw:72:GLY:CA	1:Dw:77:ALA:HB2	2.11	0.77
1:ED:91:ILE:HG21	1:Dg:35:LEU:HD21	1.67	0.77
1:DL:58:ASN:HD21	3:Xx:621:VAL:HG22	1.47	0.77
1:As:61:VAL:HG12	3:Yr:795:ILE:HD12	1.66	0.77
1:E4:83:ARG:NH2	1:N5:32:GLU:OE1	2.19	0.76
1:L7:62:ARG:NH2	3:X7:644:VAL:HG23	1.99	0.76
1:ER:81:ILE:HG21	1:D4:25:ASP:OD2	1.85	0.76
1:DK:35:LEU:HD21	1:EO:91:ILE:HG21	1.67	0.76
1:EH:91:ILE:HG21	1:DU:35:LEU:HD21	1.65	0.76
1:EY:83:ARG:NH2	1:NZ:32:GLU:OE1	2.19	0.76
1:Ed:83:ARG:NH2	1:NU:32:GLU:OE1	2.18	0.76
1:Fw:72:GLY:HA2	1:Dw:77:ALA:CB	2.09	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pp:76:ILE:CG1	2:Pj:14:ASN:ND2	2.38	0.76
3:Xq:643:TYR:OH	1:Dh:55:GLY:HA2	1.84	0.76
1:Dh:6:GLY:HA3	1:Dh:53:GLU:HA	1.67	0.76
1:Db:40:PHE:HE2	1:E3:41:VAL:HA	1.49	0.76
1:E1:83:ARG:NH2	1:N2:32:GLU:OE1	2.18	0.76
1:EJ:83:ARG:NH2	1:NK:32:GLU:OE1	2.19	0.76
1:Es:83:ARG:NH2	1:Nj:32:GLU:OE1	2.18	0.76
2:Ps:14:ASN:ND2	2:Pj:76:ILE:CG1	2.38	0.76
1:ED:83:ARG:NH2	1:NE:32:GLU:OE1	2.19	0.76
1:E8:83:ARG:NH2	1:N9:32:GLU:OE1	2.18	0.76
1:F8:66:ASP:HB2	3:X8:720:ALA:HB2	1.67	0.76
1:J7:30:ALA:O	1:D7:82:ALA:CB	2.32	0.76
1:CK:62:ARG:HG2	3:YI:861:ILE:HG13	1.65	0.76
1:FJ:44:GLY:N	1:DJ:43:GLY:HA3	2.00	0.76
1:DD:19:PRO:HG3	1:DD:72:GLY:HA3	1.68	0.76
1:J6:62:ARG:NH1	3:XN:622:ASP:O	2.18	0.76
1:J6:78:ALA:O	3:XN:628:THR:HG22	1.85	0.76
1:Db:28:THR:CG2	1:E3:85:HIS:CD2	2.67	0.76
1:CE:62:ARG:HG2	3:YC:861:ILE:HG13	1.65	0.76
1:H4:62:ARG:HG2	3:Y2:848:ILE:HD13	1.61	0.76
1:DX:61:VAL:HG12	3:Xo:616:ILE:HD12	1.67	0.76
1:DZ:35:LEU:HD21	1:Ed:91:ILE:HG21	1.67	0.76
1:At:61:VAL:HG12	3:Yx:795:ILE:HD12	1.65	0.76
1:AD:61:VAL:HG12	3:YC:795:ILE:HD12	1.66	0.76
1:EC:45:TYR:CZ	1:Dq:73:ASP:OD2	2.38	0.76
1:AQ:61:VAL:HG12	3:YP:795:ILE:HD12	1.66	0.76
1:AJ:61:VAL:HG12	3:YI:795:ILE:HD12	1.66	0.76
1:EO:83:ARG:NH2	1:NF:32:GLU:OE1	2.18	0.76
1:EW:83:ARG:NH2	1:NX:32:GLU:OE1	2.18	0.76
1:Fb:18:VAL:HA	1:Db:11:MET:HE1	0.80	0.76
1:Er:83:ARG:NH2	1:Ns:32:GLU:OE1	2.18	0.76
1:F4:28:THR:HG21	1:D4:87:GLU:CB	2.14	0.76
1:E6:91:ILE:HG21	1:DM:35:LEU:HD21	1.67	0.76
1:E9:83:ARG:NH2	1:N0:32:GLU:OE1	2.18	0.76
1:L8:65:ALA:O	3:X8:636:GLN:NE2	2.16	0.76
1:AM:69:GLU:O	3:YF:841:PRO:CG	2.27	0.76
1:Ei:83:ARG:NH2	1:Ne:32:GLU:OE1	2.19	0.76
1:Au:61:VAL:HG12	3:Yt:795:ILE:HD12	1.66	0.76
1:Eo:83:ARG:NH2	1:Nk:32:GLU:OE1	2.19	0.76
2:Pk:64:SER:HB3	2:Pk:67:TYR:HB2	1.65	0.76
1:Dw:58:ASN:HB3	3:XM:643:TYR:CZ	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fq:72:GLY:HA2	1:Dq:77:ALA:HB2	1.67	0.76
2:P8:14:ASN:ND2	2:P9:76:ILE:CG1	2.43	0.76
1:ES:83:ARG:NH2	1:NT:32:GLU:OE1	2.19	0.76
1:EM:91:ILE:HG21	1:D6:35:LEU:HD21	1.66	0.76
1:Eg:45:TYR:OH	1:DD:73:ASP:OD2	2.02	0.76
1:Eg:88:VAL:CG2	1:DD:25:ASP:HA	2.16	0.76
1:Eh:83:ARG:NH2	1:Ni:32:GLU:OE1	2.19	0.76
3:XZ:643:TYR:CZ	1:DI:58:ASN:HB3	2.21	0.76
1:Dv:83:ARG:NH2	1:Jv:32:GLU:HG3	2.00	0.76
1:Jn:62:ARG:HH21	3:XY:624:SER:HB2	1.50	0.76
2:P6:14:ASN:ND2	2:P7:76:ILE:CG1	2.43	0.76
2:PR:14:ASN:ND2	2:PS:76:ILE:CG1	2.43	0.76
1:Ea:83:ARG:NH2	1:Nb:32:GLU:OE1	2.18	0.76
1:Ew:83:ARG:NH2	1:Nx:32:GLU:OE1	2.19	0.76
1:Fw:18:VAL:CB	1:Dw:11:MET:HE2	2.16	0.76
1:Ek:83:ARG:NH2	1:Nl:32:GLU:OE1	2.18	0.76
1:En:83:ARG:NH2	1:No:32:GLU:OE1	2.18	0.76
1:Eq:83:ARG:NH2	1:Nr:32:GLU:OE1	2.18	0.76
1:ET:83:ARG:NH2	1:NP:32:GLU:OE1	2.19	0.76
1:Ee:83:ARG:NH2	1:Nf:32:GLU:OE1	2.18	0.76
1:Eu:83:ARG:NH2	1:Nv:32:GLU:OE1	2.18	0.76
1:Ev:83:ARG:NH2	1:Nw:32:GLU:OE1	2.18	0.76
1:Aq:69:GLU:O	3:Yj:841:PRO:CG	2.27	0.76
1:BC:47:THR:CG2	1:IB:18:VAL:HG23	2.16	0.76
1:B5:47:THR:CG2	1:I4:18:VAL:HG23	2.16	0.76
1:EP:83:ARG:NH2	1:NQ:32:GLU:OE1	2.18	0.76
1:BI:47:THR:CG2	1:IH:18:VAL:HG23	2.16	0.76
1:Ah:61:VAL:HG12	3:Yg:795:ILE:HD12	1.66	0.76
2:Pv:14:ASN:ND2	2:Pw:76:ILE:CG1	2.43	0.76
1:E7:83:ARG:NH2	1:N8:32:GLU:OE1	2.18	0.75
1:BN:47:THR:CG2	1:IM:18:VAL:HG23	2.16	0.75
1:JW:62:ARG:CZ	3:Xp:624:SER:HB2	2.16	0.75
3:XZ:621:VAL:CG2	1:DI:58:ASN:ND2	2.49	0.75
1:Bc:47:THR:CG2	1:Ib:18:VAL:HG23	2.16	0.75
1:Ej:83:ARG:NH2	1:Np:32:GLU:OE1	2.19	0.75
1:CB:62:ARG:HG2	3:YE:861:ILE:HG13	1.67	0.75
1:L5:66:ASP:CB	3:X5:636:GLN:HE22	2.00	0.75
1:Ad:61:VAL:HG12	3:Yc:795:ILE:HD12	1.66	0.75
1:Fc:66:ASP:HB2	3:Xc:720:ALA:HB2	1.67	0.75
1:Hc:62:ARG:HG2	3:Ya:848:ILE:HD13	1.62	0.75
1:Jq:79:HIS:HD2	3:XD:628:THR:OG1	1.70	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JY:32:GLU:OE1	1:DY:7:ILE:HG21	1.85	0.75
1:B8:47:THR:CG2	1:I7:18:VAL:HG23	2.16	0.75
1:E0:83:ARG:NH2	1:N6:32:GLU:OE1	2.19	0.75
1:CH:62:ARG:HG2	3:YK:861:ILE:HG13	1.67	0.75
1:EN:83:ARG:NH2	1:NO:32:GLU:OE1	2.18	0.75
1:Bi:47:THR:CG2	1:Ih:18:VAL:HG23	2.16	0.75
1:Cf:62:ARG:HG2	3:Yi:861:ILE:HG13	1.67	0.75
2:Pa:14:ASN:ND2	2:Pb:76:ILE:CG1	2.43	0.75
1:Bx:47:THR:CG2	1:Iw:18:VAL:HG23	2.16	0.75
1:Cu:62:ARG:HG2	3:Yx:861:ILE:HG13	1.67	0.75
1:An:61:VAL:HG12	3:Ym:795:ILE:HD12	1.66	0.75
1:Db:40:PHE:CE2	1:E3:41:VAL:HA	2.22	0.75
1:EE:83:ARG:NH2	1:NA:32:GLU:OE1	2.19	0.75
3:XC:618:GLY:HA3	1:Du:80:ILE:O	1.87	0.75
1:B3:47:THR:CG2	1:I2:18:VAL:HG23	2.16	0.75
1:JS:30:ALA:O	1:DS:82:ALA:CB	2.32	0.75
1:Ad:69:GLU:O	3:Yb:841:PRO:CG	2.30	0.75
1:BU:47:THR:CG2	1:Id:18:VAL:HG23	2.17	0.75
1:Aw:69:GLU:O	3:Yu:841:PRO:CG	2.30	0.75
1:Cl:62:ARG:HG2	3:Yo:861:ILE:HG13	1.67	0.75
1:DM:6:GLY:HA3	1:DM:53:GLU:HA	1.68	0.75
1:ED:91:ILE:HG21	1:Dg:35:LEU:CD2	2.15	0.75
1:EK:83:ARG:NH2	1:NG:32:GLU:OE1	2.19	0.75
1:BF:47:THR:CG2	1:IO:18:VAL:HG23	2.16	0.75
1:Bo:47:THR:CG2	1:In:18:VAL:HG23	2.17	0.75
1:N4:32:GLU:OE1	1:E3:83:ARG:CZ	2.35	0.75
1:A9:69:GLU:O	3:Y7:841:PRO:CG	2.30	0.75
1:FN:66:ASP:HB2	3:XN:720:ALA:HB2	1.67	0.75
1:Ov:88:VAL:HG21	1:Jv:25:ASP:HA	1.68	0.75
1:Dw:58:ASN:HB3	3:XM:643:TYR:OH	1.87	0.75
1:F4:71:VAL:CG2	1:D4:79:HIS:CD2	2.70	0.75
1:E7:77:ALA:CB	1:Dv:18:VAL:HG11	2.17	0.75
1:CQ:62:ARG:HG2	3:YT:861:ILE:HG13	1.67	0.75
1:La:83:ARG:CZ	1:DH:32:GLU:HG3	2.16	0.75
1:Hs:62:ARG:HG2	3:Yq:848:ILE:HD13	1.61	0.75
1:Fh:35:LEU:HD21	1:Dh:91:ILE:HD13	1.67	0.75
1:JF:88:VAL:HG21	1:MF:25:ASP:HA	1.68	0.75
1:DB:80:ILE:H	3:Xv:618:GLY:HA3	1.52	0.75
3:XE:621:VAL:CG2	1:Dg:58:ASN:ND2	2.50	0.75
1:BR:47:THR:CG2	1:IQ:18:VAL:HG23	2.16	0.75
1:BZ:47:THR:CG2	1:IY:18:VAL:HG23	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XZ:693:THR:HG22	3:XZ:696:ARG:H	1.52	0.75
1:Bv:47:THR:CG2	1:Iu:18:VAL:HG23	2.16	0.75
1:Ex:83:ARG:NH2	1:Nt:32:GLU:OE1	2.19	0.75
1:Cq:62:ARG:HG2	3:Yj:861:ILE:HG13	1.67	0.75
1:Fr:66:ASP:HB2	3:Xr:720:ALA:HB2	1.67	0.75
1:Nm:18:VAL:HG22	1:Lm:11:MET:HB2	1.68	0.75
1:BA:45:TYR:OH	1:IE:73:ASP:OD2	2.05	0.75
1:JD:28:THR:O	1:DD:83:ARG:NH1	2.19	0.75
3:XC:617:SER:C	1:Du:79:HIS:HA	2.10	0.75
1:BT:47:THR:CG2	1:IS:18:VAL:HG23	2.16	0.75
1:ER:85:HIS:ND1	1:D4:28:THR:HG21	2.00	0.75
1:Ef:83:ARG:NH2	1:Ng:32:GLU:OE1	2.18	0.75
1:Ep:88:VAL:CG2	1:Dh:25:ASP:HA	2.17	0.75
1:C7:62:ARG:HG2	3:Y0:861:ILE:HG13	1.67	0.74
1:BP:45:TYR:OH	1:IT:73:ASP:OD2	2.05	0.74
1:BG:45:TYR:OH	1:IK:73:ASP:OD2	2.05	0.74
1:BK:47:THR:CG2	1:IJ:18:VAL:HG23	2.16	0.74
1:BU:91:ILE:CD1	1:Id:21:ILE:HD13	2.17	0.74
1:Bm:47:THR:CG2	1:Il:18:VAL:HG23	2.16	0.74
3:XE:621:VAL:HG22	1:Dg:58:ASN:HD21	1.49	0.74
1:D5:35:LEU:HD21	1:E9:91:ILE:HG21	1.67	0.74
1:A7:69:GLU:O	3:Y0:841:PRO:CG	2.27	0.74
1:Bg:47:THR:CG2	1:If:18:VAL:HG23	2.17	0.74
1:Hi:62:ARG:HG2	3:Yg:848:ILE:HD13	1.54	0.74
1:BX:47:THR:CG2	1:IW:18:VAL:HG23	2.16	0.74
1:Bj:47:THR:CG2	1:Is:18:VAL:HG23	2.17	0.74
1:Br:47:THR:CG2	1:Iq:18:VAL:HG23	2.16	0.74
1:Jv:42:GLY:C	1:Jv:44:GLY:H	1.91	0.74
1:BE:47:THR:CG2	1:ID:18:VAL:HG23	2.16	0.74
1:MC:72:GLY:HA2	1:JC:77:ALA:HB2	1.69	0.74
1:HR:62:ARG:HG2	3:YP:848:ILE:HD13	1.62	0.74
1:OJ:85:HIS:CE1	1:DJ:83:ARG:HH12	2.04	0.74
1:BZ:91:ILE:CD1	1:IY:21:ILE:HD13	2.17	0.74
1:DW:58:ASN:HB3	3:Xp:643:TYR:CE1	2.22	0.74
1:EU:83:ARG:NH2	1:Na:32:GLU:OE1	2.19	0.74
1:La:62:ARG:NE	3:Xa:644:VAL:HG11	2.01	0.74
2:P9:14:ASN:ND2	2:P0:76:ILE:CG1	2.38	0.74
1:JJ:30:ALA:O	1:DJ:82:ALA:CB	2.35	0.74
1:Hd:62:ARG:HE	3:Yb:869:GLY:HA2	1.52	0.74
1:Hw:62:ARG:HE	3:Yu:869:GLY:HA2	1.53	0.74
1:Bj:91:ILE:CD1	1:Is:21:ILE:HD13	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hp:62:ARG:HG2	3:Ys:848:ILE:HD13	1.61	0.74
2:PC:14:ASN:ND2	2:PD:76:ILE:CG1	2.43	0.74
2:PI:14:ASN:ND2	2:PJ:76:ILE:CG1	2.43	0.74
1:Bi:91:ILE:CD1	1:Ih:21:ILE:HD13	2.18	0.74
1:EZ:83:ARG:NH2	1:NV:32:GLU:OE1	2.19	0.74
1:Hv:62:ARG:HG2	3:Yt:848:ILE:HD13	1.62	0.74
1:Bo:91:ILE:CD1	1:In:21:ILE:HD13	2.17	0.74
1:Ho:62:ARG:HG2	3:Ym:848:ILE:HD13	1.54	0.74
1:E5:83:ARG:NH2	1:N1:32:GLU:OE1	2.19	0.74
1:BI:80:ILE:HD11	3:YH:724:ILE:HD11	1.69	0.74
1:Hh:62:ARG:HE	3:Yf:869:GLY:HA2	1.52	0.74
1:FZ:66:ASP:HB2	3:XZ:720:ALA:HB2	1.69	0.74
1:Hn:62:ARG:HE	3:Yl:869:GLY:HA2	1.52	0.74
3:Xm:628:THR:O	1:JF:79:HIS:HA	1.88	0.74
1:BE:91:ILE:CD1	1:ID:21:ILE:HD13	2.17	0.74
1:B3:80:ILE:HD11	3:Y2:724:ILE:HD11	1.69	0.74
1:D3:80:ILE:HD12	3:Xc:616:ILE:CG2	2.18	0.74
1:B0:91:ILE:CD1	1:I9:21:ILE:HD13	2.17	0.74
1:H9:62:ARG:HE	3:Y7:869:GLY:HA2	1.52	0.74
1:L7:62:ARG:CZ	3:X7:644:VAL:CG2	2.49	0.74
3:XT:628:THR:HG1	1:Ja:79:HIS:CB	1.98	0.74
1:BK:91:ILE:CD1	1:IJ:21:ILE:HD13	2.17	0.74
1:HY:62:ARG:HE	3:YW:869:GLY:HA2	1.52	0.74
1:Bm:80:ILE:HD11	3:Yl:724:ILE:HD11	1.69	0.74
1:Hs:62:ARG:HE	3:Yq:869:GLY:HA2	1.52	0.74
1:M3:72:GLY:HA2	1:J3:77:ALA:CB	2.18	0.74
1:D0:80:ILE:HD11	3:XR:616:ILE:HG21	1.69	0.74
1:Fo:66:ASP:HB2	3:Xo:720:ALA:HB2	1.69	0.74
3:Xo:693:THR:HG22	3:Xo:696:ARG:H	1.52	0.74
1:Fh:29:LYS:HA	1:Dh:85:HIS:HD2	1.52	0.74
1:LC:30:ALA:O	1:Ju:82:ALA:HB3	1.88	0.74
1:B1:45:TYR:OH	1:I5:73:ASP:OD2	2.05	0.74
1:H4:62:ARG:HE	3:Y2:869:GLY:HA2	1.52	0.74
3:X6:616:ILE:HG21	1:DQ:80:ILE:HD11	1.69	0.74
1:FK:66:ASP:HB2	3:XK:720:ALA:HB2	1.69	0.74
1:BL:45:TYR:OH	1:IF:73:ASP:OD2	2.05	0.74
1:Bt:45:TYR:OH	1:Ix:73:ASP:OD2	2.05	0.74
1:Dv:58:ASN:ND2	3:X8:621:VAL:HG21	2.01	0.74
1:Hw:62:ARG:HG2	3:Yu:848:ILE:HD13	1.61	0.74
1:Nn:33:VAL:H	1:Em:83:ARG:NH2	1.86	0.74
1:JD:62:ARG:CZ	3:Xh:624:SER:HB2	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B5:47:THR:HG21	1:I4:18:VAL:HG23	1.70	0.74
1:F7:25:ASP:HA	1:D7:88:VAL:HG21	1.70	0.74
1:BH:45:TYR:OH	1:IG:73:ASP:OD2	2.06	0.74
1:EJ:91:ILE:HG21	1:Dm:35:LEU:HD21	1.70	0.74
1:HL:62:ARG:HG2	3:YO:848:ILE:HD13	1.61	0.74
1:Lc:62:ARG:CB	3:Xc:633:GLY:C	2.49	0.74
1:Bw:45:TYR:OH	1:Iv:73:ASP:OD2	2.06	0.74
1:Bp:45:TYR:OH	1:Ij:73:ASP:OD2	2.05	0.74
1:Jq:79:HIS:CD2	3:XD:628:THR:OG1	2.41	0.74
1:DS:55:GLY:HA2	3:Xb:643:TYR:OH	1.87	0.74
3:X5:693:THR:HG22	3:X5:696:ARG:H	1.52	0.74
1:BB:45:TYR:OH	1:IA:73:ASP:OD2	2.06	0.73
1:B9:45:TYR:OH	1:I8:73:ASP:OD2	2.06	0.73
1:L8:32:GLU:CA	1:Jv:83:ARG:HH11	1.87	0.73
1:BT:91:ILE:CD1	1:IS:21:ILE:HD13	2.17	0.73
1:BV:45:TYR:OH	1:IZ:73:ASP:OD2	2.05	0.73
1:D7:31:ALA:HB3	1:D7:60:ALA:HB2	1.70	0.73
1:AD:69:GLU:O	3:YB:841:PRO:CG	2.30	0.73
1:J4:62:ARG:NH2	3:XS:624:SER:HB2	2.03	0.73
1:Eh:91:ILE:HG21	1:Dp:35:LEU:HD21	1.70	0.73
3:Xi:621:VAL:HG22	1:Dp:58:ASN:HD21	1.50	0.73
1:DB:21:ILE:HD13	1:Eu:92:LEU:HD21	1.68	0.73
1:DC:61:VAL:HG12	3:Xr:616:ILE:CD1	2.18	0.73
2:PA:14:ASN:ND2	2:PB:76:ILE:CG1	2.43	0.73
1:B5:91:ILE:CD1	1:I4:21:ILE:HD13	2.17	0.73
1:H6:62:ARG:HG2	3:Y9:848:ILE:HD13	1.61	0.73
1:HS:62:ARG:HE	3:YQ:869:GLY:HA2	1.53	0.73
1:AJ:69:GLU:O	3:YH:841:PRO:CG	2.30	0.73
2:PG:14:ASN:ND2	2:PH:76:ILE:CG1	2.43	0.73
3:XK:693:THR:HG22	3:XK:696:ARG:H	1.52	0.73
1:BF:91:ILE:CD1	1:IO:21:ILE:HD13	2.17	0.73
1:AW:69:GLU:O	3:YZ:841:PRO:CG	2.27	0.73
1:Bb:45:TYR:OH	1:Ia:73:ASP:OD2	2.06	0.73
1:Bd:45:TYR:OH	1:Ic:73:ASP:OD2	2.06	0.73
2:Pk:14:ASN:ND2	2:Pl:76:ILE:CG1	2.43	0.73
1:Df:32:GLU:O	1:Df:56:ALA:HB1	1.87	0.73
1:J4:79:HIS:HA	3:XS:628:THR:O	1.89	0.73
1:D0:61:VAL:HG12	3:XR:616:ILE:CD1	2.16	0.73
1:L8:66:ASP:N	3:X8:636:GLN:NE2	2.35	0.73
1:ER:92:LEU:CD2	1:D4:21:ILE:HD13	2.19	0.73
1:JL:80:ILE:CD1	3:Xx:627:VAL:HG11	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ee:91:ILE:HG21	1:Dc:35:LEU:HD21	1.70	0.73
3:XZ:627:VAL:CG2	1:JI:62:ARG:HG2	2.17	0.73
1:Ha:62:ARG:HG2	3:Yd:848:ILE:HD13	1.61	0.73
1:Et:91:ILE:HG21	1:Dr:35:LEU:HD21	1.70	0.73
3:XC:624:SER:CB	1:Ju:62:ARG:NH2	2.45	0.73
1:A4:69:GLU:O	3:Y2:841:PRO:CG	2.30	0.73
1:BS:45:TYR:OH	1:IR:73:ASP:OD2	2.06	0.73
1:EK:91:ILE:HG21	1:DO:35:LEU:HD21	1.71	0.73
1:JH:62:ARG:NH1	3:Xa:622:ASP:O	2.17	0.73
1:JM:62:ARG:NH2	3:X7:624:SER:HB2	2.02	0.73
1:Jh:62:ARG:NH2	3:Xq:624:SER:HB2	2.03	0.73
1:Bx:47:THR:HG21	1:Iw:18:VAL:HG23	1.70	0.73
1:As:69:GLU:O	3:Yq:841:PRO:CG	2.30	0.73
1:Dw:65:ALA:CB	3:XM:616:ILE:CD1	2.66	0.73
1:B0:47:THR:CG2	1:I9:18:VAL:HG23	2.17	0.73
1:B7:45:TYR:OH	1:I6:73:ASP:OD2	2.06	0.73
1:F7:28:THR:HG21	1:D7:87:GLU:CB	2.18	0.73
3:XZ:643:TYR:CE1	1:DI:58:ASN:HB3	2.22	0.73
1:EU:92:LEU:CD2	1:DH:21:ILE:HD13	2.18	0.73
1:Mv:35:LEU:C	1:Jv:87:GLU:OE2	2.31	0.73
1:Bk:45:TYR:OH	1:Io:73:ASP:OD2	2.05	0.73
1:Dw:41:VAL:HB	1:Dw:45:TYR:HB2	1.70	0.73
1:EC:87:GLU:OE1	1:Dq:28:THR:HG23	1.89	0.73
1:B4:45:TYR:OH	1:I3:73:ASP:OD2	2.06	0.73
1:L8:65:ALA:HB3	3:X8:636:GLN:HG2	1.69	0.73
1:FS:28:THR:CG2	1:DS:87:GLU:CB	2.55	0.73
1:Be:45:TYR:OH	1:Ii:73:ASP:OD2	2.05	0.73
1:Hf:62:ARG:HG2	3:Yi:848:ILE:HD13	1.53	0.73
2:Pe:14:ASN:ND2	2:Pf:76:ILE:CG1	2.43	0.73
1:BF:47:THR:HG21	1:IO:18:VAL:HG23	1.71	0.73
1:Hl:62:ARG:HG2	3:Yo:848:ILE:HD13	1.53	0.73
1:HD:62:ARG:HE	3:YB:869:GLY:HA2	1.53	0.73
1:JB:62:ARG:HH21	3:Xv:624:SER:HB2	1.53	0.73
1:E5:91:ILE:HG21	1:D9:35:LEU:HD21	1.71	0.73
1:HJ:62:ARG:HE	3:YH:869:GLY:HA2	1.52	0.73
1:BM:45:TYR:OH	1:IL:73:ASP:OD2	2.06	0.73
1:Dv:58:ASN:HB2	3:X8:643:TYR:HE1	1.46	0.73
1:DH:79:HIS:CD2	3:Xa:617:SER:CB	2.70	0.73
1:DB:79:HIS:CD2	3:Xv:618:GLY:N	2.55	0.73
1:B2:45:TYR:OH	1:I1:73:ASP:OD2	2.06	0.73
1:JL:65:ALA:HB1	3:Xx:626:LEU:HD23	0.73	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BX:80:ILE:HD11	3:YW:724:ILE:HD11	1.69	0.73
1:EE:91:ILE:HG21	1:D1:35:LEU:HD21	1.71	0.72
1:BJ:45:TYR:OH	1:II:73:ASP:OD2	2.06	0.72
1:Bh:45:TYR:OH	1:Ig:73:ASP:OD2	2.06	0.72
1:Jv:41:VAL:HB	1:Jv:45:TYR:HB2	1.71	0.72
1:D0:55:GLY:C	3:XR:643:TYR:OH	2.32	0.72
1:HO:62:ARG:HE	3:YM:869:GLY:HA2	1.52	0.72
1:Jf:62:ARG:NH2	3:X3:624:SER:HB2	2.03	0.72
1:BW:62:ARG:HB3	3:YV:720:ALA:HB3	1.72	0.72
1:HV:62:ARG:HE	3:YY:869:GLY:HA2	1.54	0.72
1:Fw:18:VAL:HA	1:Dw:11:MET:HE2	1.71	0.72
1:Eo:91:ILE:HG21	1:Ds:35:LEU:HD21	1.71	0.72
1:Db:22:GLU:HA	1:E3:81:ILE:HD11	1.71	0.72
1:BD:45:TYR:OH	1:IC:73:ASP:OD2	2.06	0.72
1:D3:79:HIS:CG	3:Xc:617:SER:O	2.42	0.72
1:L8:32:GLU:N	1:Jv:83:ARG:HH11	1.87	0.72
1:M0:31:ALA:O	1:MR:83:ARG:HD2	1.90	0.72
1:BT:47:THR:HG21	1:IS:18:VAL:HG23	1.70	0.72
1:Bi:47:THR:HG21	1:Ih:18:VAL:HG23	1.70	0.72
1:LX:30:ALA:O	1:Jj:82:ALA:HB3	1.88	0.72
1:Bl:62:ARG:HB3	3:Yk:720:ALA:HB3	1.72	0.72
1:Bn:45:TYR:OH	1:Im:73:ASP:OD2	2.06	0.72
1:Ep:88:VAL:HG21	1:Dh:25:ASP:CA	2.20	0.72
1:Jv:15:ARG:HE	1:Jv:73:ASP:HB3	1.54	0.72
1:J2:58:ASN:OD1	3:Xg:630:ASN:ND2	2.21	0.72
1:BO:45:TYR:OH	1:IN:73:ASP:OD2	2.06	0.72
1:EO:58:ASN:HB2	3:YO:707:ILE:HD13	1.71	0.72
2:PL:14:ASN:ND2	2:PM:76:ILE:CG1	2.43	0.72
1:Bh:91:ILE:CD1	1:Ig:21:ILE:HD13	2.20	0.72
1:Bb:91:ILE:CD1	1:Ia:21:ILE:HD13	2.20	0.72
1:La:83:ARG:NH2	1:DH:32:GLU:HG2	2.04	0.72
1:Bw:91:ILE:CD1	1:Iv:21:ILE:HD13	2.20	0.72
1:Bx:91:ILE:CD1	1:Iw:21:ILE:HD13	2.17	0.72
1:Bo:47:THR:HG21	1:In:18:VAL:HG23	1.71	0.72
1:Hp:62:ARG:HE	3:Ys:869:GLY:HA2	1.55	0.72
1:BE:47:THR:HG21	1:ID:18:VAL:HG23	1.70	0.72
1:D3:35:LEU:HD21	1:Eb:91:ILE:HG21	1.69	0.72
1:B0:47:THR:HG21	1:I9:18:VAL:HG23	1.71	0.72
1:BO:91:ILE:CD1	1:IN:21:ILE:HD13	2.20	0.72
1:Bf:91:ILE:CD1	1:Ie:21:ILE:HD13	2.20	0.72
1:Ha:62:ARG:HE	3:Yd:869:GLY:HA2	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bu:91:ILE:CD1	1:It:21:ILE:HD13	2.20	0.72
1:Fn:72:GLY:HA2	1:Dn:77:ALA:CB	2.17	0.72
1:Nn:33:VAL:N	1:Em:83:ARG:NH2	2.37	0.72
1:LN:79:HIS:HA	3:XN:639:SER:O	1.90	0.72
1:DC:35:LEU:HD21	1:Eq:91:ILE:HG21	1.72	0.72
1:BK:47:THR:HG21	1:IJ:18:VAL:HG23	1.71	0.72
1:HL:62:ARG:HE	3:YO:869:GLY:HA2	1.54	0.72
1:An:69:GLU:O	3:Yl:841:PRO:CG	2.30	0.72
3:Xm:620:SER:OG	1:JF:62:ARG:NH1	2.22	0.72
1:EC:58:ASN:HB2	3:YC:707:ILE:HD13	1.71	0.72
1:EC:85:HIS:N	1:Dq:29:LYS:HE3	2.03	0.72
1:F5:66:ASP:HB2	3:X5:720:ALA:HB2	1.69	0.72
1:B9:91:ILE:CD1	1:I8:21:ILE:HD13	2.20	0.72
1:E7:91:ILE:HG21	1:Dv:35:LEU:CD2	2.20	0.72
1:J0:62:ARG:HH21	3:XR:624:SER:HB2	1.50	0.72
1:AO:69:GLU:O	3:YM:841:PRO:CG	2.30	0.72
1:BW:91:ILE:CD1	1:IV:21:ILE:HD13	2.20	0.72
1:EW:85:HIS:HE1	1:EW:87:GLU:CG	1.97	0.72
1:Ht:62:ARG:HE	3:Yw:869:GLY:HA2	1.54	0.72
1:Jw:82:ALA:HB3	1:LM:30:ALA:O	1.90	0.72
1:Bl:91:ILE:CD1	1:Ik:21:ILE:HD13	2.20	0.72
1:Bn:91:ILE:CD1	1:Im:21:ILE:HD13	2.20	0.72
1:Bs:91:ILE:CD1	1:Ir:21:ILE:HD13	2.20	0.72
2:P3:14:ASN:ND2	2:P4:76:ILE:CG1	2.43	0.72
1:B6:45:TYR:OH	1:I0:73:ASP:OD2	2.05	0.72
1:E9:58:ASN:HB2	3:Y9:707:ILE:HD13	1.71	0.72
3:XL:726:GLY:HA2	1:FL:79:HIS:NE2	2.05	0.72
1:La:83:ARG:NH1	1:DH:32:GLU:HA	2.04	0.72
3:X7:616:ILE:HG21	1:DM:80:ILE:CD1	2.19	0.72
1:BQ:91:ILE:CD1	1:IP:21:ILE:HD13	2.20	0.72
1:JR:62:ARG:HD2	3:X5:622:ASP:O	1.90	0.72
1:Eg:58:ASN:HB2	3:Yg:707:ILE:HD13	1.71	0.72
1:JX:62:ARG:HG2	3:Xo:627:VAL:CG2	2.17	0.72
1:Dv:79:HIS:CD2	3:X8:617:SER:C	2.67	0.72
1:DF:82:ALA:HB3	1:JF:30:ALA:O	1.89	0.72
1:EA:91:ILE:HG21	1:D8:35:LEU:HD21	1.70	0.71
1:B2:62:ARG:HB3	3:Y1:720:ALA:HB3	1.72	0.71
1:D2:55:GLY:O	3:Xg:643:TYR:OH	2.08	0.71
1:BM:91:ILE:CD1	1:IL:21:ILE:HD13	2.20	0.71
1:Ah:69:GLU:O	3:Yf:841:PRO:CG	2.30	0.71
1:DX:59:ALA:H	3:Xo:643:TYR:HE1	1.35	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EZ:91:ILE:HG21	1:Dd:35:LEU:HD21	1.71	0.71
1:Ea:85:HIS:CD2	1:DS:28:THR:HG22	2.25	0.71
1:B4:91:ILE:CD1	1:I3:21:ILE:HD13	2.20	0.71
1:L8:32:GLU:HA	1:Jv:83:ARG:CZ	2.06	0.71
1:LS:83:ARG:NH1	1:D4:31:ALA:O	2.23	0.71
1:HG:62:ARG:HE	3:YJ:869:GLY:HA2	1.55	0.71
1:HN:62:ARG:HE	3:YL:869:GLY:HA2	1.55	0.71
1:BW:45:TYR:OH	1:IV:73:ASP:OD2	2.06	0.71
1:HX:62:ARG:HE	3:YV:869:GLY:HA2	1.55	0.71
2:PV:14:ASN:ND2	2:PW:76:ILE:CG1	2.43	0.71
1:Bl:45:TYR:OH	1:Ik:73:ASP:OD2	2.07	0.71
1:BD:91:ILE:CD1	1:IC:21:ILE:HD13	2.20	0.71
1:HA:62:ARG:HE	3:YD:869:GLY:HA2	1.54	0.71
1:H6:62:ARG:HE	3:Y9:869:GLY:HA2	1.54	0.71
1:EP:91:ILE:HG21	1:DN:35:LEU:HD21	1.70	0.71
1:ET:91:ILE:HG21	1:DG:35:LEU:HD21	1.71	0.71
1:BH:62:ARG:HB3	3:YG:720:ALA:HB3	1.72	0.71
1:HI:62:ARG:HE	3:YG:869:GLY:HA2	1.55	0.71
1:Bf:45:TYR:OH	1:Ie:73:ASP:OD2	2.06	0.71
1:Hg:62:ARG:HE	3:Ye:869:GLY:HA2	1.55	0.71
1:Ex:91:ILE:HG21	1:Dk:35:LEU:HD21	1.71	0.71
1:JY:32:GLU:OE1	1:DY:7:ILE:CG2	2.39	0.71
1:HC:62:ARG:HE	3:YA:869:GLY:HA2	1.55	0.71
1:B2:91:ILE:CD1	1:I1:21:ILE:HD13	2.20	0.71
1:H1:62:ARG:HE	3:Y4:869:GLY:HA2	1.55	0.71
3:XT:621:VAL:CG2	1:Da:58:ASN:ND2	2.53	0.71
1:BV:47:THR:CG2	1:IZ:18:VAL:HG23	2.21	0.71
1:BY:45:TYR:OH	1:IX:73:ASP:OD2	2.06	0.71
1:BY:91:ILE:CD1	1:IX:21:ILE:HD13	2.20	0.71
1:DX:80:ILE:HD12	3:Xo:616:ILE:HG22	1.68	0.71
1:Bj:47:THR:HG21	1:Is:18:VAL:HG23	1.71	0.71
1:Bq:91:ILE:CD1	1:Ip:21:ILE:HD13	2.20	0.71
1:EC:85:HIS:HB2	1:Dq:29:LYS:HG3	1.73	0.71
1:HD:62:ARG:HG2	3:YB:848:ILE:HD13	1.61	0.71
1:D3:80:ILE:O	3:Xc:618:GLY:CA	2.39	0.71
1:L7:58:ASN:ND2	3:X7:644:VAL:HG13	2.03	0.71
1:L8:32:GLU:N	1:Jv:83:ARG:NH1	2.38	0.71
3:X6:624:SER:HB2	1:JQ:62:ARG:NE	2.04	0.71
1:ER:58:ASN:HB2	3:YR:707:ILE:HD13	1.71	0.71
1:BJ:91:ILE:CD1	1:II:21:ILE:HD13	2.20	0.71
1:DL:58:ASN:ND2	3:Xx:621:VAL:CG2	2.52	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:47:THR:HG21	1:Id:18:VAL:HG23	1.71	0.71
1:Ev:58:ASN:HB2	3:Yv:707:ILE:HD13	1.71	0.71
1:Ev:91:ILE:HG21	1:D7:35:LEU:CD2	2.19	0.71
1:Hm:62:ARG:HE	3:Yk:869:GLY:HA2	1.56	0.71
1:Jj:55:GLY:HA3	3:XX:643:TYR:OH	1.91	0.71
1:J6:62:ARG:CZ	3:XN:620:SER:OG	2.38	0.71
1:Db:28:THR:CG2	1:E3:85:HIS:CE1	2.74	0.71
1:M6:25:ASP:HA	1:J6:88:VAL:HG21	1.71	0.71
1:BQ:45:TYR:OH	1:IP:73:ASP:OD2	2.06	0.71
3:Xi:628:THR:HB	1:Jp:79:HIS:HD2	0.93	0.71
2:Pb:37:VAL:HG23	2:Pc:3:ILE:HD11	1.73	0.71
1:Jt:82:ALA:HB3	1:Ls:30:ALA:O	1.91	0.71
1:Hr:62:ARG:HE	3:Yp:869:GLY:HA2	1.55	0.71
1:BB:91:ILE:CD1	1:IA:21:ILE:HD13	2.20	0.71
1:DB:79:HIS:HA	3:Xv:617:SER:C	2.07	0.71
1:BS:91:ILE:CD1	1:IR:21:ILE:HD13	2.20	0.71
3:YL:707:ILE:HD13	1:EL:58:ASN:HB2	1.73	0.71
1:Eg:88:VAL:HG21	1:DD:25:ASP:CA	2.18	0.71
2:PW:37:VAL:HG23	2:PX:3:ILE:HD11	1.73	0.71
1:Bd:91:ILE:CD1	1:Ic:21:ILE:HD13	2.20	0.71
1:Nn:33:VAL:N	1:Em:83:ARG:HH22	1.88	0.71
1:H3:62:ARG:HE	3:Y1:869:GLY:HA2	1.55	0.71
1:B6:47:THR:CG2	1:I0:18:VAL:HG23	2.21	0.71
1:ER:92:LEU:HD21	1:D4:21:ILE:HD13	1.73	0.71
3:XT:628:THR:HG1	1:Ja:79:HIS:CA	2.03	0.71
1:BH:91:ILE:CD1	1:IG:21:ILE:HD13	2.20	0.71
1:FJ:35:LEU:HD21	1:DJ:91:ILE:HG21	1.72	0.71
1:Ei:91:ILE:HG21	1:DV:35:LEU:HD21	1.71	0.71
1:BZ:47:THR:HG21	1:IY:18:VAL:HG23	1.70	0.71
1:Bt:47:THR:CG2	1:Ix:18:VAL:HG23	2.21	0.71
1:Bk:47:THR:CG2	1:Io:18:VAL:HG23	2.21	0.71
1:Nn:32:GLU:C	1:Em:83:ARG:NH2	2.49	0.71
1:Bq:45:TYR:OH	1:Ip:73:ASP:OD2	2.06	0.71
2:P2:37:VAL:HG23	2:P3:3:ILE:HD11	1.73	0.71
1:B7:91:ILE:CD1	1:I6:21:ILE:HD13	2.20	0.71
1:ER:85:HIS:CD2	1:D4:28:THR:HG22	2.25	0.71
1:HP:62:ARG:HE	3:YS:869:GLY:HA2	1.54	0.71
1:BG:47:THR:CG2	1:IK:18:VAL:HG23	2.21	0.71
1:HJ:62:ARG:HG2	3:YH:848:ILE:HD13	1.61	0.71
1:JJ:82:ALA:HB3	1:Ln:30:ALA:O	1.90	0.71
1:Ev:85:HIS:N	1:D7:29:LYS:HE3	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:47:THR:CG2	1:IE:18:VAL:HG23	2.21	0.71
1:JA:82:ALA:HB3	1:L9:30:ALA:O	1.91	0.71
1:HR:62:ARG:HE	3:YP:869:GLY:HA2	1.55	0.71
1:BF:91:ILE:HD12	1:IO:21:ILE:HD13	1.73	0.71
1:Be:47:THR:CG2	1:Ii:18:VAL:HG23	2.21	0.71
1:Ba:47:THR:CG2	1:IU:18:VAL:HG23	2.21	0.71
1:Hc:62:ARG:HE	3:Ya:869:GLY:HA2	1.55	0.71
1:Bv:47:THR:HG21	1:Iu:18:VAL:HG23	1.73	0.71
1:Hv:62:ARG:HE	3:Yt:869:GLY:HA2	1.55	0.71
1:Eo:58:ASN:HB2	3:Yo:707:ILE:HD13	1.73	0.71
1:Ep:91:ILE:O	1:Dh:38:ARG:NH1	2.23	0.71
3:XX:617:SER:HB2	1:Dj:79:HIS:HD2	0.97	0.71
1:B1:47:THR:CG2	1:I5:18:VAL:HG23	2.21	0.70
1:H8:62:ARG:HE	3:Y6:869:GLY:HA2	1.55	0.70
3:X0:693:THR:HB	3:X0:696:ARG:HB2	1.73	0.70
1:BR:47:THR:HG21	1:IQ:18:VAL:HG23	1.73	0.70
1:DX:35:LEU:HD21	1:En:91:ILE:HG21	1.72	0.70
1:Bj:91:ILE:HD12	1:Is:21:ILE:HD13	1.73	0.70
1:F7:28:THR:HG21	1:D7:87:GLU:HB2	1.73	0.70
1:Bu:45:TYR:OH	1:It:73:ASP:OD2	2.06	0.70
1:Bs:45:TYR:OH	1:Ir:73:ASP:OD2	2.06	0.70
1:Es:58:ASN:HB2	3:Ys:707:ILE:HD13	1.71	0.70
1:J7:79:HIS:CD2	3:Xw:628:THR:OG1	2.44	0.70
1:ES:91:ILE:HG21	1:Da:35:LEU:CD2	2.21	0.70
1:EK:58:ASN:HB2	3:YK:707:ILE:HD13	1.73	0.70
3:XL:726:GLY:N	1:FL:79:HIS:CE1	2.59	0.70
3:XF:693:THR:HB	3:XF:696:ARG:HB2	1.73	0.70
1:Je:82:ALA:HB3	1:Ld:30:ALA:O	1.91	0.70
1:Ed:58:ASN:HB2	3:Yd:707:ILE:HD13	1.71	0.70
1:LA:30:ALA:O	1:J1:82:ALA:HB3	1.91	0.70
1:BL:47:THR:CG2	1:IF:18:VAL:HG23	2.21	0.70
2:PM:37:VAL:HG23	2:PN:3:ILE:HD11	1.73	0.70
1:Eh:91:ILE:HG21	1:Dp:35:LEU:CD2	2.21	0.70
1:He:62:ARG:HE	3:Yh:869:GLY:HA2	1.54	0.70
1:BU:91:ILE:HD12	1:Id:21:ILE:HD13	1.73	0.70
1:Ba:45:TYR:OH	1:IU:73:ASP:OD2	2.05	0.70
1:Lt:30:ALA:O	1:Jk:82:ALA:HB3	1.91	0.70
1:Mv:35:LEU:CA	1:Jv:87:GLU:OE2	2.36	0.70
1:JF:91:ILE:HG21	1:MF:35:LEU:HD21	1.73	0.70
1:EC:77:ALA:HB2	1:Dq:72:GLY:HA2	1.73	0.70
2:PD:30:LYS:HG2	2:PD:33:ALA:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XC:616:ILE:CG2	1:Du:80:ILE:HD11	2.05	0.70
1:M4:31:ALA:O	1:MS:83:ARG:HD2	1.92	0.70
1:EX:79:HIS:ND1	1:Dn:71:VAL:HG11	2.05	0.70
1:Bp:47:THR:CG2	1:Ij:18:VAL:HG23	2.21	0.70
2:Pp:3:ILE:HD11	2:Pj:37:VAL:HG23	1.74	0.70
1:B3:47:THR:HG21	1:I2:18:VAL:HG23	1.73	0.70
1:ER:85:HIS:CE1	1:D4:28:THR:CG2	2.75	0.70
1:JP:82:ALA:HB3	1:LO:30:ALA:O	1.91	0.70
1:HX:62:ARG:HG2	3:YV:848:ILE:HD13	1.61	0.70
1:Fn:28:THR:HG22	1:Dn:85:HIS:CG	2.25	0.70
2:PA:3:ILE:HD11	2:PE:37:VAL:HG23	1.73	0.70
1:L5:62:ARG:NH2	3:X5:644:VAL:HG23	2.04	0.70
2:P1:3:ILE:HD11	2:P5:37:VAL:HG23	1.73	0.70
1:F9:66:ASP:HB2	3:X9:720:ALA:HB2	1.74	0.70
3:XT:627:VAL:HG11	1:Ja:80:ILE:CD1	2.19	0.70
1:BX:47:THR:HG21	1:IW:18:VAL:HG23	1.74	0.70
1:DW:54:THR:O	3:Xp:643:TYR:OH	2.10	0.70
1:Cc:62:ARG:HD2	2:Pb:21:HIS:ND1	2.07	0.70
2:Pu:37:VAL:HG23	2:Pv:3:ILE:HD11	1.73	0.70
1:JS:32:GLU:OE1	1:DS:7:ILE:HG12	1.92	0.70
1:FJ:25:ASP:HB2	1:DJ:81:ILE:HD11	1.72	0.70
1:JJ:62:ARG:NH2	3:Xn:624:SER:HB2	2.07	0.70
1:BN:47:THR:HG21	1:IM:18:VAL:HG23	1.73	0.70
2:PN:53:VAL:HG13	2:PN:74:ILE:HD13	1.74	0.70
1:Eg:81:ILE:HG21	1:DD:25:ASP:OD2	1.92	0.70
1:AY:69:GLU:O	3:YW:841:PRO:CG	2.30	0.70
3:XU:693:THR:HB	3:XU:696:ARG:HB2	1.73	0.70
1:Hk:62:ARG:HE	3:Yn:869:GLY:HA2	1.55	0.70
1:BE:91:ILE:HD12	1:ID:21:ILE:HD13	1.73	0.70
1:D2:58:ASN:ND2	3:Xg:621:VAL:HG21	2.07	0.70
1:BP:47:THR:CG2	1:IT:18:VAL:HG23	2.21	0.70
1:BK:91:ILE:HD12	1:IJ:21:ILE:HD13	1.73	0.70
2:PG:3:ILE:HD11	2:PK:37:VAL:HG23	1.73	0.70
1:BZ:91:ILE:HD12	1:IY:21:ILE:HD13	1.73	0.70
1:Cv:62:ARG:HD2	2:Pu:21:HIS:ND1	2.07	0.70
1:CC:62:ARG:HD2	2:PB:21:HIS:ND1	2.07	0.70
1:E5:58:ASN:HB2	3:Y5:707:ILE:HD13	1.73	0.70
1:H3:62:ARG:HG2	3:Y1:848:ILE:HD13	1.62	0.70
2:PP:14:ASN:ND2	2:PQ:76:ILE:CG1	2.43	0.70
2:PI:64:SER:HB3	2:PI:67:TYR:HB2	1.74	0.70
1:Le:30:ALA:O	1:JV:82:ALA:HB3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DX:55:GLY:N	3:Xo:643:TYR:OH	2.25	0.70
2:Pw:30:LYS:HG2	2:Pw:33:ALA:HB2	1.74	0.70
1:Fs:66:ASP:HB2	3:Xs:720:ALA:HB2	1.74	0.70
3:Xj:693:THR:HB	3:Xj:696:ARG:HB2	1.73	0.70
1:C3:62:ARG:HD2	2:P2:21:HIS:ND1	2.07	0.69
1:L5:62:ARG:NE	3:X5:644:VAL:HG21	2.06	0.69
2:P7:37:VAL:HG23	2:P8:3:ILE:HD11	1.73	0.69
1:CI:62:ARG:HD2	2:PH:21:HIS:ND1	2.07	0.69
3:Xi:628:THR:OG1	1:Jp:79:HIS:HB2	1.81	0.69
1:EW:85:HIS:HE1	1:EW:87:GLU:CD	2.00	0.69
1:DB:49:LEU:HD22	1:DB:93:PRO:HD2	1.74	0.69
2:PB:37:VAL:HG23	2:PC:3:ILE:HD11	1.73	0.69
1:LP:30:ALA:O	1:JG:82:ALA:HB3	1.92	0.69
1:JM:62:ARG:CZ	3:X7:624:SER:CB	2.65	0.69
1:EZ:58:ASN:HB2	3:YZ:707:ILE:HD13	1.73	0.69
1:JX:62:ARG:CZ	3:Xo:624:SER:CB	2.60	0.69
2:PV:3:ILE:HD11	2:PZ:37:VAL:HG23	1.73	0.69
2:Pc:53:VAL:HG13	2:Pc:74:ILE:HD13	1.74	0.69
1:Dx:35:LEU:CD2	1:Ek:91:ILE:HG21	2.23	0.69
1:D4:11:MET:HE1	1:D4:81:ILE:HG13	1.73	0.69
1:JF:11:MET:SD	1:MF:21:ILE:CD1	2.80	0.69
2:Pf:37:VAL:HG23	2:Pg:3:ILE:HD11	1.73	0.69
1:Ov:85:HIS:ND1	1:Jv:28:THR:CG2	2.54	0.69
1:Fn:35:LEU:HD21	1:Dn:91:ILE:HD13	1.73	0.69
2:Pq:37:VAL:HG23	2:Pr:3:ILE:HD11	1.73	0.69
1:J6:79:HIS:HA	3:XN:628:THR:CG2	2.22	0.69
1:BC:47:THR:HG21	1:IB:18:VAL:HG23	1.73	0.69
1:F4:25:ASP:HA	1:D4:88:VAL:HG21	1.75	0.69
1:C8:62:ARG:HD2	2:P7:21:HIS:ND1	2.07	0.69
3:XT:626:LEU:HD23	1:Ja:65:ALA:HB1	0.70	0.69
1:BI:47:THR:HG21	1:IH:18:VAL:HG23	1.73	0.69
2:PH:37:VAL:HG23	2:PI:3:ILE:HD11	1.73	0.69
1:Bo:91:ILE:HD12	1:In:21:ILE:HD13	1.73	0.69
2:Pl:37:VAL:HG23	2:Pm:3:ILE:HD11	1.73	0.69
1:DH:79:HIS:HD2	3:Xa:617:SER:CA	2.04	0.69
1:CX:62:ARG:HD2	2:PW:21:HIS:ND1	2.07	0.69
1:D7:79:HIS:HA	3:Xw:617:SER:HB2	1.73	0.69
1:E6:91:ILE:HG21	1:DM:35:LEU:CD2	2.23	0.69
1:L8:31:ALA:O	1:Jv:83:ARG:NH1	2.26	0.69
1:EM:91:ILE:HG21	1:D6:35:LEU:CD2	2.23	0.69
2:PL:3:ILE:HD11	2:PF:37:VAL:HG23	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fw:35:LEU:HD23	1:Dw:91:ILE:CG2	2.21	0.69
1:DS:53:GLU:O	1:DS:54:THR:C	2.32	0.69
1:D3:80:ILE:CD1	3:Xc:616:ILE:HG21	2.23	0.69
1:L8:65:ALA:CB	3:X8:636:GLN:NE2	2.56	0.69
2:P9:37:VAL:HG23	2:P0:3:ILE:HD11	1.74	0.69
1:FO:66:ASP:HB2	3:XO:720:ALA:HB2	1.73	0.69
3:XL:627:VAL:HG21	1:Jl:62:ARG:HG2	1.73	0.69
3:XL:643:TYR:OH	1:Dl:54:THR:O	2.07	0.69
1:Bi:91:ILE:HD12	1:Ih:21:ILE:HD13	1.73	0.69
1:Fn:28:THR:HG21	1:Dn:85:HIS:CE1	2.09	0.69
1:Ep:91:ILE:HG21	1:Dh:35:LEU:HD21	1.74	0.69
1:Jj:62:ARG:HD3	3:XX:620:SER:O	1.93	0.69
1:B4:47:THR:CG2	1:I3:18:VAL:HG23	2.23	0.69
1:CR:62:ARG:HD2	2:PQ:21:HIS:ND1	2.07	0.69
2:PP:3:ILE:HD11	2:PT:37:VAL:HG23	1.73	0.69
1:CN:62:ARG:HD2	2:PM:21:HIS:ND1	2.07	0.69
3:XL:621:VAL:HG21	1:Dl:58:ASN:CG	2.16	0.69
1:Bh:47:THR:CG2	1:Ig:18:VAL:HG23	2.23	0.69
1:Di:35:LEU:CD2	1:EV:91:ILE:HG21	2.23	0.69
1:Fd:66:ASP:HB2	3:Xd:720:ALA:HB2	1.74	0.69
2:Pd:37:VAL:HG23	2:PU:3:ILE:HD11	1.74	0.69
1:Bx:91:ILE:HD12	1:Iw:21:ILE:HD13	1.73	0.69
1:Bs:11:MET:HB3	1:Ir:18:VAL:HG22	1.75	0.69
1:Cr:62:ARG:HD2	2:Pq:21:HIS:ND1	2.07	0.69
1:Jq:62:ARG:NE	3:XD:624:SER:HB2	2.07	0.69
1:LN:80:ILE:CD1	3:XN:638:ILE:CG2	2.71	0.69
3:XX:616:ILE:CD1	1:Dj:78:ALA:HB1	2.23	0.69
1:Db:28:THR:HG22	1:E3:85:HIS:NE2	2.07	0.69
1:L3:58:ASN:HD21	3:X3:644:VAL:HG13	1.56	0.69
1:B2:11:MET:HB3	1:I1:18:VAL:HG22	1.75	0.69
1:C5:62:ARG:HD2	2:P4:21:HIS:ND1	2.08	0.69
1:BT:91:ILE:HD12	1:IS:21:ILE:HD13	1.73	0.69
2:PJ:37:VAL:HG23	2:PK:3:ILE:HD11	1.74	0.69
1:BM:47:THR:CG2	1:IL:18:VAL:HG23	2.23	0.69
1:CF:62:ARG:HD2	2:PO:21:HIS:ND1	2.08	0.69
1:BY:11:MET:HB3	1:IX:18:VAL:HG22	1.75	0.69
1:Bu:11:MET:HB3	1:It:18:VAL:HG22	1.75	0.69
1:Bn:47:THR:CG2	1:Im:18:VAL:HG23	2.23	0.69
1:Co:62:ARG:HD2	2:Pn:21:HIS:ND1	2.08	0.69
1:Bs:47:THR:CG2	1:Ir:18:VAL:HG23	2.23	0.69
1:DH:82:ALA:HB2	3:Xa:619:THR:OG1	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BB:47:THR:CG2	1:IA:18:VAL:HG23	2.23	0.69
1:DE:35:LEU:CD2	1:E1:91:ILE:HG21	2.23	0.69
3:XC:621:VAL:HG21	1:Du:58:ASN:CG	2.17	0.69
2:P6:3:ILE:HD11	2:P0:37:VAL:HG23	1.73	0.69
1:BS:11:MET:HB3	1:IR:18:VAL:HG22	1.75	0.69
1:BS:47:THR:CG2	1:IR:18:VAL:HG23	2.23	0.69
3:XG:696:ARG:HA	3:XG:700:ASN:HA	1.74	0.69
1:Bf:47:THR:CG2	1:Ie:18:VAL:HG23	2.23	0.69
1:DW:35:LEU:CD2	1:Ej:91:ILE:HG21	2.23	0.69
1:Ba:91:ILE:HD13	1:IU:35:LEU:HD21	1.75	0.69
1:Bc:47:THR:HG21	1:Ib:18:VAL:HG23	1.74	0.69
1:Bd:47:THR:CG2	1:Ic:18:VAL:HG23	2.23	0.69
1:Bq:11:MET:HB3	1:Ip:18:VAL:HG22	1.75	0.69
1:Ep:85:HIS:ND1	1:Dh:28:THR:HG21	2.07	0.69
3:X7:616:ILE:HG22	1:DM:80:ILE:HD12	1.72	0.69
3:X8:623:ALA:HA	1:Jv:62:ARG:HH11	1.58	0.69
1:EF:31:ALA:HB3	1:EF:60:ALA:HB2	1.75	0.69
1:BD:47:THR:CG2	1:IC:18:VAL:HG23	2.23	0.68
1:DC:80:ILE:CD1	3:Xr:616:ILE:CG2	2.47	0.68
3:XE:627:VAL:HG13	1:Jg:80:ILE:CD1	2.20	0.68
1:B4:11:MET:HB3	1:I3:18:VAL:HG22	1.75	0.68
2:P3:64:SER:HB3	2:P3:67:TYR:HB2	1.74	0.68
1:B8:47:THR:HG21	1:I7:18:VAL:HG23	1.73	0.68
2:PS:30:LYS:HG2	2:PS:33:ALA:HB2	1.74	0.68
1:BH:47:THR:CG2	1:IG:18:VAL:HG23	2.23	0.68
1:BM:11:MET:HB3	1:IL:18:VAL:HG22	1.75	0.68
3:XV:696:ARG:HA	3:XV:700:ASN:HA	1.74	0.68
1:Bl:47:THR:CG2	1:Ik:18:VAL:HG23	2.23	0.68
1:ME:31:ALA:O	1:M2:83:ARG:HD2	1.93	0.68
1:B7:47:THR:CG2	1:I6:18:VAL:HG23	2.23	0.68
1:DT:35:LEU:CD2	1:EG:91:ILE:HG21	2.23	0.68
1:MT:31:ALA:O	1:MH:83:ARG:HD2	1.93	0.68
1:CL:62:ARG:HD2	2:PF:21:HIS:ND1	2.09	0.68
2:Pm:64:SER:HB3	2:Pm:67:TYR:HB2	1.73	0.68
1:LN:80:ILE:HD12	3:XN:638:ILE:HG22	1.74	0.68
1:FF:72:GLY:HA2	1:DF:77:ALA:HB2	1.74	0.68
1:FD:35:LEU:CD2	1:DD:91:ILE:HG21	2.23	0.68
1:C1:62:ARG:HD2	2:P5:21:HIS:ND1	2.09	0.68
1:B0:91:ILE:HD12	1:I9:21:ILE:HD13	1.73	0.68
1:B7:11:MET:HB3	1:I6:18:VAL:HG22	1.75	0.68
1:AT:69:GLU:O	3:YR:841:PRO:CG	2.32	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BJ:47:THR:CG2	1:II:18:VAL:HG23	2.23	0.68
1:EH:58:ASN:HB2	3:YH:707:ILE:HD13	1.75	0.68
2:PO:37:VAL:HG23	2:PF:3:ILE:HD11	1.74	0.68
1:Cg:62:ARG:HD2	2:Pf:21:HIS:ND1	2.07	0.68
1:BY:47:THR:CG2	1:IX:18:VAL:HG23	2.23	0.68
1:EX:85:HIS:CD2	1:Dn:28:THR:CG2	2.64	0.68
2:PX:64:SER:HB3	2:PX:67:TYR:HB2	1.74	0.68
1:Bb:47:THR:CG2	1:Ia:18:VAL:HG23	2.23	0.68
1:Bw:47:THR:CG2	1:Iv:18:VAL:HG23	2.23	0.68
3:Xk:696:ARG:HA	3:Xk:700:ASN:HA	1.74	0.68
1:B2:47:THR:CG2	1:I1:18:VAL:HG23	2.23	0.68
1:Jf:82:ALA:HB3	1:L3:30:ALA:O	1.93	0.68
2:PY:37:VAL:HG23	2:PZ:3:ILE:HD11	1.74	0.68
2:Pt:3:ILE:HD11	2:Px:37:VAL:HG23	1.73	0.68
3:Yl:707:ILE:HD13	1:El:58:ASN:HB2	1.75	0.68
1:DE:72:GLY:HA2	1:E1:77:ALA:HB2	1.76	0.68
3:XC:617:SER:O	1:Du:79:HIS:CB	2.41	0.68
2:P4:37:VAL:HG23	2:P5:3:ILE:HD11	1.74	0.68
1:BQ:11:MET:HB3	1:IP:18:VAL:HG22	1.75	0.68
1:CP:62:ARG:HD2	2:PT:21:HIS:ND1	2.09	0.68
1:ML:31:ALA:O	1:Mx:83:ARG:HD2	1.93	0.68
2:Pe:3:ILE:HD11	2:Pi:37:VAL:HG23	1.73	0.68
1:DW:58:ASN:CG	3:Xp:621:VAL:HG21	2.18	0.68
1:MW:31:ALA:O	1:Mp:83:ARG:HD2	1.92	0.68
1:HU:62:ARG:CG	3:Yc:848:ILE:HD11	2.24	0.68
1:Bu:47:THR:CG2	1:It:18:VAL:HG23	2.23	0.68
2:Pk:3:ILE:HD11	2:Po:37:VAL:HG23	1.73	0.68
1:Br:47:THR:HG21	1:Iq:18:VAL:HG23	1.73	0.68
1:Hj:62:ARG:CG	3:Yr:848:ILE:HD11	2.24	0.68
3:Xm:616:ILE:HG13	1:DF:62:ARG:HG2	1.74	0.68
1:B5:91:ILE:HD12	1:I4:21:ILE:HD13	1.73	0.68
1:F4:71:VAL:HG21	1:D4:79:HIS:CD2	2.28	0.68
1:A0:69:GLU:O	3:Y8:841:PRO:CG	2.32	0.68
1:AS:69:GLU:C	3:YQ:841:PRO:HG3	2.18	0.68
1:HR:62:ARG:CG	3:YP:848:ILE:HD11	2.24	0.68
2:PG:37:VAL:HG23	2:PH:3:ILE:HD11	1.76	0.68
1:BV:11:MET:HB3	1:IZ:18:VAL:HG22	1.76	0.68
1:BW:47:THR:CG2	1:IV:18:VAL:HG23	2.24	0.68
2:Pa:3:ILE:HD11	2:PU:37:VAL:HG23	1.73	0.68
1:Jw:32:GLU:OE1	1:Dw:7:ILE:HG12	1.93	0.68
1:Mx:31:ALA:O	1:Ml:83:ARG:HD2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Cm:62:ARG:HD2	2:Pl:21:HIS:ND1	2.07	0.68
1:Bp:11:MET:HB3	1:Ij:18:VAL:HG22	1.76	0.68
1:Cp:62:ARG:HD2	2:Pj:21:HIS:ND1	2.09	0.68
1:B5:11:MET:HB3	1:I4:18:VAL:HG22	1.76	0.68
1:F4:71:VAL:CG2	1:D4:79:HIS:HD2	2.06	0.68
1:D0:72:GLY:HA2	1:EQ:77:ALA:HB2	1.74	0.68
1:Be:11:MET:HB3	1:Ii:18:VAL:HG22	1.76	0.68
1:Bq:47:THR:CG2	1:Ip:18:VAL:HG23	2.23	0.68
1:Cj:62:ARG:HD2	2:Ps:21:HIS:ND1	2.08	0.68
1:FY:72:GLY:HA2	1:DY:77:ALA:HB2	1.74	0.68
1:MK:83:ARG:HD2	1:Mm:31:ALA:O	1.94	0.68
1:BC:91:ILE:CD1	1:IB:21:ILE:HD13	2.24	0.68
1:FD:28:THR:HG23	1:DD:85:HIS:CE1	2.19	0.68
1:LD:83:ARG:NH1	1:Dq:31:ALA:O	2.27	0.68
2:PA:37:VAL:HG23	2:PB:3:ILE:HD11	1.76	0.68
3:XC:628:THR:O	1:Ju:79:HIS:HA	1.94	0.68
3:XE:624:SER:HB2	1:Jg:62:ARG:CZ	2.24	0.68
1:H5:62:ARG:CG	3:Y3:848:ILE:HD11	2.24	0.68
1:B9:47:THR:CG2	1:I8:18:VAL:HG23	2.23	0.68
1:FJ:35:LEU:CD2	1:DJ:91:ILE:HG21	2.24	0.68
1:BF:11:MET:HB3	1:IO:18:VAL:HG22	1.76	0.68
1:JL:79:HIS:HB2	3:Xx:628:THR:OG1	1.90	0.68
1:Bf:11:MET:HB3	1:Ie:18:VAL:HG22	1.75	0.68
1:EW:91:ILE:HD11	1:Dj:21:ILE:HG12	1.73	0.68
1:HZ:62:ARG:CG	3:YX:848:ILE:HD11	2.24	0.68
1:Ca:62:ARG:HD2	2:PU:21:HIS:ND1	2.09	0.68
1:Bk:11:MET:HB3	1:Io:18:VAL:HG22	1.76	0.68
1:Bl:11:MET:HB3	1:Ik:18:VAL:HG22	1.75	0.68
2:Pn:37:VAL:HG23	2:Po:3:ILE:HD11	1.74	0.68
1:HC:62:ARG:CG	3:YA:848:ILE:HD11	2.24	0.68
1:B9:11:MET:HB3	1:I8:18:VAL:HG22	1.75	0.68
1:F6:66:ASP:HB2	3:X6:720:ALA:HB2	1.76	0.68
1:ER:11:MET:HB3	1:D4:18:VAL:HG22	1.75	0.68
1:BI:91:ILE:CD1	1:IH:21:ILE:HD13	2.24	0.68
1:BL:11:MET:HB3	1:IF:18:VAL:HG22	1.76	0.68
1:DL:35:LEU:CD2	1:Ew:91:ILE:HG21	2.24	0.68
1:Bh:11:MET:HB3	1:Ig:18:VAL:HG22	1.75	0.68
3:Xi:624:SER:HB2	1:Jp:62:ARG:CZ	2.24	0.68
1:Fb:18:VAL:CG2	1:Db:11:MET:HE2	2.08	0.68
1:Hv:62:ARG:CG	3:Yt:848:ILE:HD11	2.24	0.68
3:Xt:627:VAL:HG21	1:Jk:62:ARG:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bn:11:MET:HB3	1:Im:18:VAL:HG22	1.75	0.68
2:Pr:53:VAL:HG13	2:Pr:74:ILE:HD13	1.74	0.68
1:DS:31:ALA:HB1	1:DS:56:ALA:HB1	1.76	0.68
1:DY:23:ALA:HB2	1:DY:68:CYS:HB3	1.74	0.68
3:XC:617:SER:O	1:Du:79:HIS:CD2	2.46	0.68
1:L8:65:ALA:CB	3:X8:636:GLN:HG2	2.23	0.68
1:MQ:83:ARG:HD2	1:MN:31:ALA:O	1.94	0.68
2:PQ:37:VAL:HG23	2:PR:3:ILE:HD11	1.73	0.68
1:HI:62:ARG:CG	3:YG:848:ILE:HD11	2.24	0.68
1:BO:47:THR:CG2	1:IN:18:VAL:HG23	2.23	0.68
1:Af:69:GLU:C	3:Yi:841:PRO:HG3	2.19	0.68
2:Ph:30:LYS:HG2	2:Ph:33:ALA:HB2	1.74	0.68
1:CZ:62:ARG:HD2	2:PY:21:HIS:ND1	2.08	0.68
2:Pa:37:VAL:HG23	2:Pb:3:ILE:HD11	1.76	0.68
1:Dx:72:GLY:HA2	1:Ek:77:ALA:HB2	1.76	0.68
1:Al:69:GLU:C	3:Yo:841:PRO:HG3	2.19	0.68
1:Ap:38:ARG:NH2	1:Ap:97:GLN:HE21	1.89	0.68
1:DJ:13:GLU:HG3	1:DJ:47:THR:HB	1.76	0.68
1:MB:83:ARG:HD2	1:M8:31:ALA:O	1.94	0.67
1:J7:32:GLU:CB	1:D7:83:ARG:HH21	2.01	0.67
1:BG:11:MET:HB3	1:IK:18:VAL:HG22	1.76	0.67
1:Bi:11:MET:HB3	1:Ih:18:VAL:HG22	1.76	0.67
1:Ee:58:ASN:HB2	3:Ye:707:ILE:HD13	1.76	0.67
1:Hi:62:ARG:CG	3:Yg:848:ILE:HD11	2.24	0.67
1:Bd:11:MET:HB3	1:Ic:18:VAL:HG22	1.75	0.67
1:Mu:83:ARG:HD2	1:Mr:31:ALA:O	1.94	0.67
1:Bk:91:ILE:CD1	1:Io:21:ILE:HD13	2.25	0.67
1:Br:91:ILE:CD1	1:Iq:21:ILE:HD13	2.24	0.67
1:BE:11:MET:HB3	1:ID:18:VAL:HG22	1.76	0.67
1:CA:62:ARG:HD2	2:PE:21:HIS:ND1	2.09	0.67
1:B1:91:ILE:CD1	1:I5:21:ILE:HD13	2.25	0.67
1:B3:91:ILE:CD1	1:I2:21:ILE:HD13	2.24	0.67
1:JS:62:ARG:CZ	3:Xb:624:SER:CB	2.63	0.67
1:CG:62:ARG:HD2	2:PK:21:HIS:ND1	2.09	0.67
1:Be:91:ILE:CD1	1:Ii:21:ILE:HD13	2.25	0.67
1:CU:62:ARG:HD2	2:Pd:21:HIS:ND1	2.08	0.67
2:Pt:37:VAL:HG23	2:Pu:3:ILE:HD11	1.76	0.67
1:Ho:62:ARG:CG	3:Ym:848:ILE:HD11	2.24	0.67
1:Jn:62:ARG:NH2	3:XY:624:SER:CB	2.57	0.67
1:BA:11:MET:HB3	1:IE:18:VAL:HG22	1.76	0.67
3:XC:643:TYR:CE1	1:Du:55:GLY:O	2.48	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:69:GLU:O	3:Y3:841:PRO:CG	2.32	0.67
1:O3:45:TYR:OH	1:J3:73:ASP:OD2	2.10	0.67
3:X1:696:ARG:HA	3:X1:700:ASN:HA	1.74	0.67
1:CK:62:ARG:HD2	2:PJ:21:HIS:ND1	2.08	0.67
1:HJ:80:ILE:HD12	3:YH:848:ILE:CG2	2.24	0.67
1:LK:30:ALA:O	1:Jm:82:ALA:HB3	1.93	0.67
1:Mi:31:ALA:O	1:MW:83:ARG:HD2	1.93	0.67
1:Hb:62:ARG:CG	3:YU:848:ILE:HD11	2.24	0.67
1:Bt:11:MET:HB3	1:Ix:18:VAL:HG22	1.76	0.67
2:Pu:64:SER:HB3	2:Pu:67:TYR:HB2	1.76	0.67
1:Bo:11:MET:HB3	1:In:18:VAL:HG22	1.76	0.67
1:Hn:80:ILE:HD12	3:Yl:848:ILE:CG2	2.24	0.67
1:Ep:85:HIS:CE1	1:Dh:28:THR:HG22	2.29	0.67
2:Ps:37:VAL:HG23	2:Pj:3:ILE:HD11	1.74	0.67
1:EB:91:ILE:HG21	1:Du:35:LEU:HD21	1.77	0.67
1:HD:80:ILE:HD12	3:YB:848:ILE:CG2	2.24	0.67
3:XE:628:THR:OG1	1:Jg:79:HIS:HB2	1.93	0.67
1:B6:91:ILE:CD1	1:I0:21:ILE:HD13	2.25	0.67
1:B8:91:ILE:CD1	1:I7:21:ILE:HD13	2.24	0.67
1:C0:62:ARG:HD2	2:P9:21:HIS:ND1	2.08	0.67
1:H9:80:ILE:HD12	3:Y7:848:ILE:CG2	2.24	0.67
3:X6:616:ILE:HD13	1:DQ:78:ALA:HB3	1.77	0.67
1:FI:28:THR:HG21	1:DI:87:GLU:HB2	1.77	0.67
1:Hh:80:ILE:HD12	3:Yf:848:ILE:CG2	2.24	0.67
1:BU:11:MET:HB3	1:Id:18:VAL:HG22	1.76	0.67
1:Hd:62:ARG:CG	3:Yb:848:ILE:HD11	2.25	0.67
1:Bx:11:MET:HB3	1:Iw:18:VAL:HG22	1.76	0.67
1:Dv:79:HIS:HD2	3:X8:617:SER:CB	2.08	0.67
1:Hu:62:ARG:CG	3:Yx:848:ILE:HD11	2.25	0.67
1:DU:69:GLU:HB3	1:DU:70:ARG:HH21	1.60	0.67
1:BD:11:MET:HB3	1:IC:18:VAL:HG22	1.75	0.67
2:PB:64:SER:HB3	2:PB:67:TYR:HB2	1.76	0.67
1:D2:61:VAL:CG1	3:Xg:616:ILE:HD12	2.19	0.67
2:P8:37:VAL:HG23	2:P9:3:ILE:HD11	1.76	0.67
1:EP:58:ASN:HB2	3:YP:707:ILE:HD13	1.77	0.67
1:HQ:62:ARG:CG	3:YT:848:ILE:HD11	2.24	0.67
1:JS:32:GLU:CD	1:DS:7:ILE:HD13	2.20	0.67
2:PQ:64:SER:HB3	2:PQ:67:TYR:HB2	1.76	0.67
1:BK:11:MET:HB3	1:IJ:18:VAL:HG22	1.76	0.67
2:PI:37:VAL:HG23	2:PJ:3:ILE:HD11	1.76	0.67
2:PN:37:VAL:HG23	2:PO:3:ILE:HD11	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bg:91:ILE:CD1	1:If:21:ILE:HD13	2.24	0.67
1:HY:80:ILE:HD12	3:YW:848:ILE:CG2	2.24	0.67
1:Fb:18:VAL:CG1	1:Db:11:MET:CE	2.47	0.67
1:Bv:91:ILE:CD1	1:Iu:21:ILE:HD13	2.24	0.67
1:Ln:83:ARG:HG3	1:DJ:32:GLU:CG	2.25	0.67
1:D3:35:LEU:CD2	1:Eb:91:ILE:HG21	2.25	0.67
1:H4:80:ILE:HD12	3:Y2:848:ILE:CG2	2.24	0.67
1:H0:62:ARG:CG	3:Y8:848:ILE:HD11	2.24	0.67
2:P6:37:VAL:HG23	2:P7:3:ILE:HD11	1.76	0.67
2:P8:53:VAL:HG13	2:P8:74:ILE:HD13	1.74	0.67
1:BR:91:ILE:CD1	1:IQ:21:ILE:HD13	2.24	0.67
1:DT:72:GLY:HA2	1:EG:77:ALA:HB2	1.76	0.67
1:Bg:47:THR:HG21	1:If:18:VAL:HG23	1.73	0.67
1:Ji:62:ARG:HG2	3:XW:627:VAL:HG21	1.77	0.67
1:BV:91:ILE:CD1	1:IZ:21:ILE:HD13	2.25	0.67
1:DW:72:GLY:HA2	1:Ej:77:ALA:HB2	1.77	0.67
1:HY:62:ARG:CG	3:YW:848:ILE:HD11	2.25	0.67
1:Ad:69:GLU:C	3:Yb:841:PRO:HG3	2.18	0.67
1:Ea:79:HIS:HE1	1:DS:22:GLU:OE1	1.68	0.67
1:Ct:62:ARG:HD2	2:Px:21:HIS:ND1	2.09	0.67
1:Jx:62:ARG:HG2	3:Xl:627:VAL:HG21	1.77	0.67
1:Bm:47:THR:HG21	1:Il:18:VAL:HG23	1.73	0.67
1:Fq:28:THR:HG21	1:Dq:87:GLU:HB2	1.77	0.67
1:BA:91:ILE:CD1	1:IE:21:ILE:HD13	2.25	0.67
1:BB:11:MET:HB3	1:IA:18:VAL:HG22	1.75	0.67
1:HD:62:ARG:CG	3:YB:848:ILE:HD11	2.25	0.67
1:B6:11:MET:HB3	1:I0:18:VAL:HG22	1.76	0.67
1:J0:58:ASN:OD1	3:XR:630:ASN:ND2	2.28	0.67
1:BP:91:ILE:CD1	1:IT:21:ILE:HD13	2.25	0.67
1:BR:91:ILE:HD12	1:IQ:21:ILE:HD13	1.77	0.67
1:BG:91:ILE:CD1	1:IK:21:ILE:HD13	2.25	0.67
1:BH:11:MET:HB3	1:IG:18:VAL:HG22	1.75	0.67
1:HJ:62:ARG:CG	3:YH:848:ILE:HD11	2.25	0.67
1:JJ:30:ALA:O	1:DJ:82:ALA:HB1	1.95	0.67
3:XL:720:ALA:HB2	1:FL:66:ASP:HB2	1.76	0.67
3:Xe:627:VAL:HG21	1:JV:62:ARG:HG2	1.76	0.67
1:CV:62:ARG:HD2	2:PZ:21:HIS:ND1	2.09	0.67
1:HX:62:ARG:CG	3:YV:848:ILE:HD11	2.24	0.67
1:Bj:11:MET:HB3	1:Is:18:VAL:HG22	1.76	0.67
1:C4:62:ARG:HD2	2:P3:21:HIS:ND1	2.10	0.67
1:H3:62:ARG:CG	3:Y1:848:ILE:HD11	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C9:62:ARG:HD2	2:P8:21:HIS:ND1	2.10	0.67
1:H8:62:ARG:CG	3:Y6:848:ILE:HD11	2.24	0.67
2:PP:37:VAL:HG23	2:PQ:3:ILE:HD11	1.76	0.67
1:BJ:11:MET:HB3	1:II:18:VAL:HG22	1.75	0.67
1:BN:91:ILE:CD1	1:IM:21:ILE:HD13	2.24	0.67
1:BO:11:MET:HB3	1:IN:18:VAL:HG22	1.75	0.67
1:CO:62:ARG:HD2	2:PN:21:HIS:ND1	2.10	0.67
1:HF:62:ARG:CG	3:YN:848:ILE:HD11	2.24	0.67
1:HO:80:ILE:HD12	3:YM:848:ILE:CG2	2.24	0.67
1:Ce:62:ARG:HD2	2:Pi:21:HIS:ND1	2.09	0.67
1:BW:11:MET:HB3	1:IV:18:VAL:HG22	1.75	0.67
1:BZ:11:MET:HB3	1:IY:18:VAL:HG22	1.76	0.67
1:EU:91:ILE:HG21	1:DH:35:LEU:HD21	1.76	0.67
1:Fa:66:ASP:HB2	3:Xa:720:ALA:HB2	1.76	0.67
1:Hc:62:ARG:CG	3:Ya:848:ILE:HD11	2.24	0.67
1:Ax:69:GLU:O	3:Yv:841:PRO:CG	2.32	0.67
1:Hu:62:ARG:CA	3:Yx:848:ILE:HD11	2.25	0.67
2:Pm:37:VAL:HG23	2:Pn:3:ILE:HD11	1.76	0.67
1:Hr:62:ARG:CG	3:Yp:848:ILE:HD11	2.24	0.67
1:Jm:76:VAL:CG1	1:Mm:73:ASP:OD1	2.43	0.67
1:BA:47:THR:HG21	1:IE:18:VAL:HG23	1.77	0.67
1:CS:62:ARG:HD2	2:PR:21:HIS:ND1	2.10	0.67
1:CM:62:ARG:HD2	2:PL:21:HIS:ND1	2.10	0.67
1:DX:59:ALA:N	3:Xo:643:TYR:CE1	2.62	0.67
1:Hw:80:ILE:HD12	3:Yu:848:ILE:CG2	2.24	0.67
1:Ck:62:ARG:HD2	2:Po:21:HIS:ND1	2.09	0.67
1:Fn:18:VAL:HG22	1:Dn:11:MET:HB3	1.77	0.67
1:Hs:80:ILE:HD12	3:Yq:848:ILE:CG2	2.24	0.67
3:Xq:643:TYR:CE1	1:Dh:58:ASN:HB3	2.30	0.67
1:E3:13:GLU:HB3	1:E3:76:VAL:HB	1.77	0.67
1:A4:69:GLU:C	3:Y2:841:PRO:HG3	2.18	0.67
1:C2:62:ARG:HD2	2:P1:21:HIS:ND1	2.10	0.67
1:H2:62:ARG:CG	3:Y5:848:ILE:HD11	2.25	0.67
2:P1:37:VAL:HG23	2:P2:3:ILE:HD11	1.76	0.67
1:C7:62:ARG:HD2	2:P6:21:HIS:ND1	2.10	0.67
1:DQ:87:GLU:HB2	1:FQ:28:THR:HG21	1.77	0.67
1:HS:80:ILE:HD12	3:YQ:848:ILE:CG2	2.24	0.67
1:BG:47:THR:HG21	1:IK:18:VAL:HG23	1.77	0.67
1:CJ:62:ARG:HD2	2:PI:21:HIS:ND1	2.10	0.67
1:Ee:77:ALA:HB2	1:Dc:72:GLY:HA2	1.77	0.67
1:Da:87:GLU:HB2	1:Fa:28:THR:HG21	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hd:80:ILE:HD12	3:Yb:848:ILE:CG2	2.24	0.67
1:Dx:87:GLU:HB2	1:Fx:28:THR:HG21	1.77	0.67
1:Aj:69:GLU:O	3:Yr:841:PRO:CG	2.32	0.67
1:Br:91:ILE:HD12	1:Iq:21:ILE:HD13	1.77	0.67
1:Ep:45:TYR:CZ	1:Dh:73:ASP:OD2	2.47	0.67
3:X8:628:THR:O	1:Jv:79:HIS:HA	1.95	0.67
1:Fh:72:GLY:HA2	1:Dh:77:ALA:HB2	1.75	0.67
1:Dh:62:ARG:NH2	1:Dh:66:ASP:OD2	2.26	0.67
1:BC:91:ILE:HD12	1:IB:21:ILE:HD13	1.77	0.66
1:CD:62:ARG:HD2	2:PC:21:HIS:ND1	2.10	0.66
1:HE:62:ARG:CG	3:YC:848:ILE:HD11	2.24	0.66
1:C6:62:ARG:HD2	2:P0:21:HIS:ND1	2.09	0.66
1:D0:87:GLU:HB2	1:F0:28:THR:HG21	1.77	0.66
1:BQ:47:THR:CG2	1:IP:18:VAL:HG23	2.23	0.66
1:HS:62:ARG:CG	3:YQ:848:ILE:HD11	2.25	0.66
1:BI:91:ILE:HD12	1:IH:21:ILE:HD13	1.77	0.66
1:FI:17:LEU:HD23	1:DI:47:THR:HG21	1.78	0.66
1:HK:62:ARG:CG	3:YI:848:ILE:HD11	2.24	0.66
2:PX:37:VAL:HG23	2:PY:3:ILE:HD11	1.76	0.66
1:Dc:87:GLU:HB2	1:Fc:28:THR:HG21	1.78	0.66
2:Pc:37:VAL:HG23	2:Pd:3:ILE:HD11	1.76	0.66
1:Au:22:GLU:OE2	3:Yx:865:GLY:N	2.17	0.66
1:Cn:62:ARG:HD2	2:Pm:21:HIS:ND1	2.10	0.66
1:Hq:62:ARG:CG	3:Yj:848:ILE:HD11	2.24	0.66
1:Lm:73:ASP:OD2	1:Mm:45:TYR:OH	2.13	0.66
1:EA:77:ALA:HB2	1:D8:72:GLY:HA2	1.77	0.66
1:JE:62:ARG:HG2	3:X2:627:VAL:HG21	1.77	0.66
1:B6:47:THR:HG21	1:I0:18:VAL:HG23	1.77	0.66
1:B9:47:THR:HG21	1:I8:18:VAL:HG23	1.78	0.66
1:EP:77:ALA:HB2	1:DN:72:GLY:HA2	1.77	0.66
1:HQ:62:ARG:HE	3:YT:869:GLY:HA2	1.61	0.66
1:HT:62:ARG:HG2	3:YR:848:ILE:HD11	1.77	0.66
1:BL:47:THR:HG21	1:IF:18:VAL:HG23	1.77	0.66
1:Ch:62:ARG:HD2	2:Pg:21:HIS:ND1	2.10	0.66
1:EW:85:HIS:ND1	1:EW:87:GLU:HG3	2.09	0.66
1:Bb:11:MET:HB3	1:Ia:18:VAL:HG22	1.75	0.66
1:Bd:91:ILE:HD12	1:Ic:21:ILE:HD13	1.77	0.66
1:Dv:87:GLU:HB2	1:Fv:28:THR:HG21	1.78	0.66
1:Et:58:ASN:HB2	3:Yt:707:ILE:HD13	1.76	0.66
1:Mv:35:LEU:N	1:Jv:87:GLU:OE2	2.27	0.66
1:Dk:87:GLU:HB2	1:Fk:28:THR:HG21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dm:47:THR:HG21	1:Fm:17:LEU:HD23	1.78	0.66
1:Dr:87:GLU:HB2	1:Fr:28:THR:HG21	1.77	0.66
2:Pp:37:VAL:HG23	2:Pq:3:ILE:HD11	1.76	0.66
2:Pr:37:VAL:HG23	2:Ps:3:ILE:HD11	1.76	0.66
1:DA:87:GLU:HB2	1:FA:28:THR:HG21	1.78	0.66
1:DC:47:THR:HG21	1:FC:17:LEU:HD23	1.78	0.66
1:JD:80:ILE:HD12	3:Xh:627:VAL:CG1	2.26	0.66
1:LC:62:ARG:HH11	3:XC:634:GLU:HA	1.61	0.66
3:XC:617:SER:C	1:Du:79:HIS:CD2	2.73	0.66
3:XC:618:GLY:CA	1:Du:80:ILE:O	2.43	0.66
1:B2:91:ILE:HD12	1:I1:21:ILE:HD13	1.78	0.66
1:H4:62:ARG:CG	3:Y2:848:ILE:HD11	2.25	0.66
2:P3:37:VAL:HG23	2:P4:3:ILE:HD11	1.76	0.66
3:XP:627:VAL:HG21	1:JG:62:ARG:HG2	1.76	0.66
1:DG:87:GLU:HB2	1:FG:28:THR:HG21	1.77	0.66
1:DK:87:GLU:HB2	1:FK:28:THR:HG21	1.77	0.66
1:DL:47:THR:HG21	1:FL:17:LEU:HD23	1.77	0.66
1:HN:62:ARG:CG	3:YL:848:ILE:HD11	2.24	0.66
1:Bh:91:ILE:HD12	1:Ig:21:ILE:HD13	1.77	0.66
2:Pe:37:VAL:HG23	2:Pf:3:ILE:HD11	1.76	0.66
1:CW:62:ARG:HD2	2:PV:21:HIS:ND1	2.10	0.66
1:DX:28:THR:O	1:Lo:83:ARG:NH1	2.27	0.66
1:DZ:87:GLU:HB2	1:FZ:28:THR:HG21	1.77	0.66
1:EW:58:ASN:HB2	3:YW:707:ILE:HD13	1.75	0.66
1:EW:91:ILE:HG21	1:Dj:35:LEU:HD21	1.78	0.66
1:Ba:11:MET:HB3	1:IU:18:VAL:HG22	1.76	0.66
1:Ba:47:THR:HG21	1:IU:18:VAL:HG23	1.77	0.66
1:Bd:47:THR:HG21	1:Ic:18:VAL:HG23	1.78	0.66
1:Cd:62:ARG:HD2	2:Pc:21:HIS:ND1	2.10	0.66
1:Bt:91:ILE:CD1	1:Ix:21:ILE:HD13	2.25	0.66
1:Nn:32:GLU:C	1:Em:83:ARG:HH21	1.97	0.66
3:Ym:705:ASN:ND2	1:Em:82:ALA:CB	2.57	0.66
3:Ym:705:ASN:ND2	1:Em:82:ALA:HB2	2.09	0.66
1:Jj:62:ARG:NH2	3:XX:624:SER:HB2	2.09	0.66
1:DC:87:GLU:HB2	1:FC:28:THR:HG21	1.78	0.66
1:DE:47:THR:HG21	1:FE:17:LEU:HD23	1.78	0.66
1:DE:87:GLU:HB2	1:FE:28:THR:HG21	1.78	0.66
1:B3:91:ILE:HD12	1:I2:21:ILE:HD13	1.77	0.66
1:E4:77:ALA:HB1	1:DR:18:VAL:HG11	1.77	0.66
1:F4:71:VAL:HG22	1:D4:79:HIS:HD2	1.60	0.66
1:H2:62:ARG:HE	3:Y5:869:GLY:HA2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B0:11:MET:HB3	1:I9:18:VAL:HG22	1.76	0.66
1:E7:91:ILE:HG21	1:Dv:35:LEU:HD21	1.77	0.66
1:H9:62:ARG:CG	3:Y7:848:ILE:HD11	2.25	0.66
1:J7:32:GLU:HA	1:D7:83:ARG:CZ	2.08	0.66
1:BP:11:MET:HB3	1:IT:18:VAL:HG22	1.76	0.66
1:HR:62:ARG:HG2	3:YP:848:ILE:HD11	1.78	0.66
1:HT:62:ARG:CG	3:YR:848:ILE:HD11	2.24	0.66
1:DK:47:THR:HG21	1:FK:17:LEU:HD23	1.78	0.66
1:HM:62:ARG:HE	3:YF:869:GLY:HA2	1.61	0.66
2:PL:37:VAL:HG23	2:PM:3:ILE:HD11	1.76	0.66
1:De:87:GLU:HB2	1:Fe:28:THR:HG21	1.78	0.66
1:Dg:47:THR:HG21	1:Fg:17:LEU:HD23	1.78	0.66
1:EW:85:HIS:CE1	1:EW:87:GLU:CD	2.73	0.66
1:Ac:66:ASP:OD1	3:Yb:792:ARG:NH2	2.27	0.66
1:Bc:91:ILE:CD1	1:Ib:21:ILE:HD13	2.24	0.66
1:Hb:62:ARG:HE	3:YU:869:GLY:HA2	1.61	0.66
1:Lc:62:ARG:HD3	3:Xc:634:GLU:HA	0.79	0.66
1:Ev:91:ILE:CG2	1:D7:35:LEU:HD21	2.22	0.66
1:Hx:62:ARG:CG	3:Yv:848:ILE:HD11	2.23	0.66
1:Fp:66:ASP:HB2	3:Xp:720:ALA:HB2	1.76	0.66
1:Hq:62:ARG:HE	3:Yj:869:GLY:HA2	1.61	0.66
1:Dw:25:ASP:HA	1:EL:88:VAL:HG21	1.78	0.66
1:BD:47:THR:HG21	1:IC:18:VAL:HG23	1.77	0.66
1:HB:62:ARG:CG	3:YE:848:ILE:HD11	2.25	0.66
1:AQ:69:GLU:C	3:YT:841:PRO:HG3	2.19	0.66
1:BT:11:MET:HB3	1:IS:18:VAL:HG22	1.76	0.66
1:HH:62:ARG:CG	3:YK:848:ILE:HD11	2.24	0.66
1:Di:72:GLY:HA2	1:EV:77:ALA:HB2	1.76	0.66
1:BV:47:THR:HG21	1:IZ:18:VAL:HG23	1.77	0.66
1:BW:91:ILE:HD12	1:IV:21:ILE:HD13	1.78	0.66
1:JW:62:ARG:HG2	3:Xp:627:VAL:HG21	1.77	0.66
1:Dd:87:GLU:HB2	1:Fd:28:THR:HG21	1.77	0.66
1:Bw:11:MET:HB3	1:Iv:18:VAL:HG22	1.75	0.66
1:Du:47:THR:HG21	1:Fu:17:LEU:HD23	1.78	0.66
1:Bn:91:ILE:HD12	1:Im:21:ILE:HD13	1.78	0.66
2:Pk:37:VAL:HG23	2:Pl:3:ILE:HD11	1.76	0.66
1:Bs:47:THR:HG21	1:Ir:18:VAL:HG23	1.77	0.66
1:Ds:87:GLU:HB2	1:Fs:28:THR:HG21	1.77	0.66
3:XX:616:ILE:CD1	1:Dj:78:ALA:CB	2.74	0.66
1:D3:47:THR:HG21	1:F3:17:LEU:HD23	1.78	0.66
1:L5:30:ALA:O	1:JR:82:ALA:HB3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D0:25:ASP:HA	1:EQ:88:VAL:HG21	1.76	0.66
1:F7:28:THR:CG2	1:D7:85:HIS:ND1	2.58	0.66
1:H7:62:ARG:HE	3:Y0:869:GLY:HA2	1.61	0.66
1:BJ:47:THR:HG21	1:II:18:VAL:HG23	1.77	0.66
3:XK:627:VAL:CG2	1:Jm:62:ARG:HG2	2.20	0.66
1:Ai:69:GLU:O	3:Yg:841:PRO:CG	2.32	0.66
1:Bg:91:ILE:HD12	1:If:21:ILE:HD13	1.77	0.66
1:DV:87:GLU:HB2	1:FV:28:THR:HG21	1.78	0.66
1:FU:17:LEU:HD23	1:DU:47:THR:HG21	1.78	0.66
1:Bt:47:THR:HG21	1:Ix:18:VAL:HG23	1.77	0.66
1:Ht:62:ARG:HG2	3:Yw:848:ILE:HD13	1.61	0.66
1:Lv:62:ARG:HH11	3:Xv:634:GLU:HA	1.61	0.66
1:Hl:62:ARG:HE	3:Yo:869:GLY:HA2	1.60	0.66
1:DD:62:ARG:NH2	3:Xh:645:GLY:HA2	2.11	0.66
1:Db:35:LEU:CD2	1:E3:91:ILE:HG21	2.25	0.66
1:Dq:6:GLY:HA3	1:Dq:53:GLU:HA	1.76	0.66
1:CB:62:ARG:HD2	2:PA:21:HIS:ND1	2.10	0.66
1:B1:11:MET:HB3	1:I5:18:VAL:HG22	1.76	0.66
1:B1:47:THR:HG21	1:I5:18:VAL:HG23	1.77	0.66
1:B2:47:THR:HG21	1:I1:18:VAL:HG23	1.78	0.66
1:F6:17:LEU:HD23	1:D6:47:THR:HG21	1.78	0.66
1:L8:32:GLU:C	1:Jv:83:ARG:HH12	2.02	0.66
1:BP:47:THR:HG21	1:IT:18:VAL:HG23	1.77	0.66
1:BS:47:THR:HG21	1:IR:18:VAL:HG23	1.77	0.66
1:FR:17:LEU:HD23	1:DR:47:THR:HG21	1.78	0.66
1:JJ:62:ARG:HH21	3:Xn:624:SER:HB2	1.58	0.66
1:AF:69:GLU:O	3:YN:841:PRO:CG	2.32	0.66
1:BO:91:ILE:HD12	1:IN:21:ILE:HD13	1.77	0.66
1:DN:47:THR:HG21	1:FN:17:LEU:HD23	1.78	0.66
1:HM:62:ARG:CG	3:YF:848:ILE:HD11	2.24	0.66
1:Hf:62:ARG:HE	3:Yi:869:GLY:HA2	1.61	0.66
1:Hh:62:ARG:HG2	3:Yf:848:ILE:HD13	1.61	0.66
1:Fb:18:VAL:CG2	1:Db:13:GLU:CD	2.59	0.66
1:Cw:62:ARG:HD2	2:Pv:21:HIS:ND1	2.10	0.66
1:Dt:87:GLU:HB2	1:Ft:28:THR:HG21	1.78	0.66
1:Du:88:VAL:HG21	1:Fu:25:ASP:HA	1.78	0.66
1:Ao:69:GLU:O	3:Ym:841:PRO:CG	2.32	0.66
1:Dm:87:GLU:HB2	1:Fm:28:THR:HG21	1.78	0.66
1:En:58:ASN:HB2	3:Yn:707:ILE:HD13	1.78	0.66
1:Hj:62:ARG:HG2	3:Yr:848:ILE:HD11	1.77	0.66
3:XA:627:VAL:HG21	1:J1:62:ARG:HG2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B4:47:THR:HG21	1:I3:18:VAL:HG23	1.77	0.66
1:CQ:62:ARG:HD2	2:PP:21:HIS:ND1	2.10	0.66
1:ER:85:HIS:CE1	1:D4:28:THR:HG22	2.30	0.66
3:XT:624:SER:HB2	1:Ja:62:ARG:CZ	2.26	0.66
1:CH:62:ARG:HD2	2:PG:21:HIS:ND1	2.10	0.66
1:BN:91:ILE:HD12	1:IM:21:ILE:HD13	1.77	0.66
1:Bf:91:ILE:HD12	1:Ie:21:ILE:HD13	1.78	0.66
1:Mf:83:ARG:HD2	1:Mc:31:ALA:O	1.94	0.66
2:Pf:64:SER:HB3	2:Pf:67:TYR:HB2	1.76	0.66
1:BY:47:THR:HG21	1:IX:18:VAL:HG23	1.77	0.66
1:DW:47:THR:HG21	1:FW:17:LEU:HD23	1.78	0.66
1:FU:25:ASP:HA	1:DU:88:VAL:HG21	1.77	0.66
1:Hv:62:ARG:HG2	3:Yt:848:ILE:HD11	1.78	0.66
1:Cl:62:ARG:HD2	2:Pk:21:HIS:ND1	2.10	0.66
1:Hn:62:ARG:HG2	3:Yl:848:ILE:HD13	1.61	0.66
1:Bq:47:THR:HG21	1:Ip:18:VAL:HG23	1.78	0.66
1:Fj:17:LEU:HD23	1:Dj:47:THR:HG21	1.78	0.66
1:D3:80:ILE:O	3:Xc:618:GLY:HA3	1.96	0.66
1:E2:58:ASN:HB2	3:Y2:707:ILE:HD13	1.75	0.66
1:D8:87:GLU:HB2	1:F8:28:THR:HG21	1.77	0.66
1:L6:30:ALA:O	1:JQ:82:ALA:HB3	1.95	0.66
1:BQ:47:THR:HG21	1:IP:18:VAL:HG23	1.78	0.66
1:JT:62:ARG:HG2	3:XH:627:VAL:HG21	1.77	0.66
1:BH:91:ILE:HD12	1:IG:21:ILE:HD13	1.78	0.66
1:HH:62:ARG:CA	3:YK:848:ILE:HD11	2.25	0.66
1:BM:47:THR:HG21	1:IL:18:VAL:HG23	1.78	0.66
3:XL:616:ILE:HG21	1:Dl:80:ILE:HD11	1.78	0.66
1:Cf:62:ARG:HD2	2:Pe:21:HIS:ND1	2.10	0.66
1:Ff:28:THR:HG21	1:Df:87:GLU:HB2	1.77	0.66
1:Av:66:ASP:OD1	3:Yu:792:ARG:NH2	2.27	0.66
1:Bl:91:ILE:HD12	1:Ik:21:ILE:HD13	1.78	0.66
1:Bp:47:THR:HG21	1:Ij:18:VAL:HG23	1.77	0.66
1:Bs:91:ILE:HD12	1:Ir:21:ILE:HD13	1.77	0.66
1:DD:15:ARG:HH21	1:DD:74:GLY:HA3	1.61	0.66
1:Dw:59:ALA:N	3:XM:643:TYR:HE1	1.94	0.66
1:HB:62:ARG:CA	3:YE:848:ILE:HD11	2.25	0.66
3:XC:624:SER:N	1:Ju:62:ARG:CZ	2.59	0.66
1:B7:47:THR:HG21	1:I6:18:VAL:HG23	1.78	0.66
1:F6:28:THR:HG21	1:D6:87:GLU:HB2	1.77	0.66
1:DT:87:GLU:HB2	1:FT:28:THR:HG21	1.78	0.66
1:LR:62:ARG:HH11	3:XR:634:GLU:HA	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:YI:707:ILE:HD13	1:EI:58:ASN:HB2	1.78	0.66
1:Bf:47:THR:HG21	1:Ie:18:VAL:HG23	1.77	0.66
1:Dg:87:GLU:HB2	1:Fg:28:THR:HG21	1.78	0.66
1:AW:22:GLU:OE2	3:YZ:865:GLY:N	2.17	0.66
1:DX:47:THR:HG21	1:FX:17:LEU:HD23	1.77	0.66
1:Cb:62:ARG:HD2	2:Pa:21:HIS:ND1	2.10	0.66
1:Dc:47:THR:HG21	1:Fc:17:LEU:HD23	1.78	0.66
1:HU:62:ARG:HG2	3:Yc:848:ILE:HD11	1.77	0.66
1:BB:91:ILE:HD12	1:IA:21:ILE:HD13	1.78	0.65
1:BD:91:ILE:HD12	1:IC:21:ILE:HD13	1.77	0.65
1:D5:47:THR:HG21	1:F5:17:LEU:HD23	1.78	0.65
1:H0:62:ARG:HE	3:Y8:869:GLY:HA2	1.62	0.65
1:FR:28:THR:HG21	1:DR:87:GLU:HB2	1.78	0.65
1:AM:22:GLU:OE2	3:YF:865:GLY:N	2.17	0.65
1:DN:87:GLU:HB2	1:FN:28:THR:HG21	1.78	0.65
1:Di:47:THR:HG21	1:Fi:17:LEU:HD23	1.78	0.65
1:BY:91:ILE:HD12	1:IX:21:ILE:HD13	1.77	0.65
1:CY:62:ARG:HD2	2:PX:21:HIS:ND1	2.10	0.65
1:HU:62:ARG:HE	3:Yc:869:GLY:HA2	1.62	0.65
1:Bw:91:ILE:HD12	1:Iv:21:ILE:HD13	1.78	0.65
1:Dx:47:THR:HG21	1:Fx:17:LEU:HD23	1.78	0.65
1:Ev:92:LEU:HD23	1:D7:21:ILE:HD13	1.78	0.65
1:Do:47:THR:HG21	1:Fo:17:LEU:HD23	1.78	0.65
1:Dp:47:THR:HG21	1:Fp:17:LEU:HD23	1.78	0.65
1:Hq:62:ARG:CA	3:Yj:848:ILE:HD11	2.25	0.65
1:AE:69:GLU:O	3:YC:841:PRO:CG	2.32	0.65
1:DB:22:GLU:OE1	1:Eu:79:HIS:CE1	2.49	0.65
1:D5:87:GLU:HB2	1:F5:28:THR:HG21	1.77	0.65
1:H5:62:ARG:HE	3:Y3:869:GLY:HA2	1.62	0.65
1:J4:29:LYS:O	1:D4:83:ARG:HD3	1.95	0.65
1:B8:91:ILE:HD12	1:I7:21:ILE:HD13	1.77	0.65
1:LQ:30:ALA:O	1:JN:82:ALA:HB3	1.96	0.65
1:EH:91:ILE:HG21	1:DU:35:LEU:CD2	2.26	0.65
1:Bh:47:THR:HG21	1:Ig:18:VAL:HG23	1.77	0.65
1:DV:47:THR:HG21	1:FV:17:LEU:HD23	1.78	0.65
1:Fb:35:LEU:HD21	1:Db:91:ILE:HD13	1.79	0.65
1:Hd:62:ARG:HG2	3:Yb:848:ILE:HD13	1.61	0.65
1:Hu:62:ARG:HE	3:Yx:869:GLY:HA2	1.61	0.65
1:Hv:80:ILE:HD12	3:Yt:848:ILE:CG2	2.27	0.65
1:Jw:75:LEU:HD12	3:XM:626:LEU:HD22	1.76	0.65
1:Cs:62:ARG:HD2	2:Pr:21:HIS:ND1	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ds:47:THR:HG21	1:Fs:17:LEU:HD23	1.78	0.65
1:Hs:62:ARG:CG	3:Yq:848:ILE:HD11	2.25	0.65
1:EC:79:HIS:HE1	1:Dq:22:GLU:OE1	1.70	0.65
1:LB:30:ALA:O	1:J8:82:ALA:HB3	1.96	0.65
1:D0:35:LEU:CD2	1:EQ:91:ILE:HG21	2.25	0.65
3:X6:616:ILE:HG21	1:DQ:80:ILE:CD1	2.26	0.65
1:BJ:91:ILE:HD12	1:II:21:ILE:HD13	1.77	0.65
3:XL:643:TYR:CE1	1:Dl:58:ASN:HB3	2.32	0.65
1:Hg:80:ILE:HD12	3:Ye:848:ILE:CG2	2.27	0.65
1:BX:91:ILE:HD13	1:IW:35:LEU:HD21	1.78	0.65
1:Bb:91:ILE:HD12	1:Ia:21:ILE:HD13	1.78	0.65
1:Dv:79:HIS:HD2	3:X8:617:SER:HB2	1.61	0.65
1:Hw:62:ARG:CG	3:Yu:848:ILE:HD11	2.25	0.65
1:Bl:47:THR:HG21	1:Ik:18:VAL:HG23	1.78	0.65
1:Bn:47:THR:HG21	1:Im:18:VAL:HG23	1.77	0.65
3:Ym:703:THR:OG1	1:Em:78:ALA:O	2.14	0.65
1:Bq:91:ILE:HD12	1:Ip:21:ILE:HD13	1.78	0.65
1:Hr:80:ILE:HD12	3:Yp:848:ILE:CG2	2.27	0.65
1:EA:58:ASN:HB2	3:YA:707:ILE:HD13	1.76	0.65
1:EC:85:HIS:CE1	1:Dq:28:THR:HG22	2.31	0.65
1:E4:91:ILE:HG21	1:DR:35:LEU:HD21	1.78	0.65
1:D9:87:GLU:HB2	1:F9:28:THR:HG21	1.77	0.65
1:F7:66:ASP:HB2	3:X7:720:ALA:HB2	1.79	0.65
1:DP:87:GLU:HB2	1:FP:28:THR:HG21	1.78	0.65
1:AK:69:GLU:O	3:YI:841:PRO:CG	2.32	0.65
1:FM:66:ASP:HB2	3:XM:720:ALA:HB2	1.79	0.65
1:Jb:62:ARG:NH2	3:X4:624:SER:HB2	2.12	0.65
1:Bv:91:ILE:HD12	1:Iu:21:ILE:HD13	1.77	0.65
1:Cu:62:ARG:HD2	2:Pt:21:HIS:ND1	2.10	0.65
1:Du:87:GLU:HB2	1:Fu:28:THR:HG21	1.79	0.65
1:Et:77:ALA:HB2	1:Dr:72:GLY:HA2	1.77	0.65
1:Ov:85:HIS:CG	1:Jv:28:THR:HG22	2.31	0.65
1:Hm:62:ARG:CG	3:Yk:848:ILE:HD11	2.24	0.65
1:Cq:62:ARG:HD2	2:Pp:21:HIS:ND1	2.10	0.65
1:B7:91:ILE:HD12	1:I6:21:ILE:HD13	1.78	0.65
1:H9:62:ARG:CA	3:Y7:848:ILE:HD11	2.27	0.65
1:BS:91:ILE:HD12	1:IR:21:ILE:HD13	1.78	0.65
1:HO:62:ARG:CG	3:YM:848:ILE:HD11	2.25	0.65
1:Eg:85:HIS:NE2	1:DD:28:THR:HG22	2.11	0.65
1:Bu:91:ILE:HD12	1:It:21:ILE:HD13	1.78	0.65
1:Hx:62:ARG:HG2	3:Yv:848:ILE:HD11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hm:80:ILE:HD12	3:Yk:848:ILE:CG2	2.27	0.65
1:Dh:53:GLU:O	1:Dh:54:THR:C	2.38	0.65
1:Db:28:THR:CG2	1:E3:85:HIS:ND1	2.59	0.65
1:B4:91:ILE:HD12	1:I3:21:ILE:HD13	1.77	0.65
3:X1:627:VAL:HG21	1:J9:62:ARG:HG2	1.78	0.65
1:ER:88:VAL:HG21	1:D4:25:ASP:CA	2.24	0.65
1:DL:72:GLY:HA2	1:Ew:77:ALA:HB2	1.78	0.65
1:DL:87:GLU:HB2	1:FL:28:THR:HG21	1.77	0.65
1:HW:62:ARG:CG	3:YZ:848:ILE:HD11	2.24	0.65
3:XZ:624:SER:HB2	1:JI:62:ARG:NE	2.11	0.65
1:Ab:69:GLU:C	3:YU:841:PRO:HG3	2.19	0.65
1:Hc:80:ILE:HD12	3:Ya:848:ILE:CG2	2.27	0.65
1:Ev:77:ALA:HB2	1:D7:72:GLY:CA	2.26	0.65
1:Ov:87:GLU:HB2	1:Jv:28:THR:CG2	2.26	0.65
1:Am:66:ASP:OD1	3:Yl:792:ARG:NH2	2.27	0.65
1:Do:35:LEU:CD2	1:Es:91:ILE:HG21	2.27	0.65
1:Do:87:GLU:HB2	1:Fo:28:THR:HG21	1.77	0.65
1:BB:47:THR:HG21	1:IA:18:VAL:HG23	1.78	0.65
1:A2:69:GLU:C	3:Y5:841:PRO:HG3	2.19	0.65
1:DG:47:THR:HG21	1:FG:17:LEU:HD23	1.78	0.65
1:BL:37:GLY:HA2	1:BL:96:PRO:HB3	1.79	0.65
1:HW:62:ARG:CA	3:YZ:848:ILE:HD11	2.25	0.65
1:HW:62:ARG:HE	3:YZ:869:GLY:HA2	1.61	0.65
1:EU:88:VAL:HG21	1:DH:25:ASP:HA	1.79	0.65
1:Bu:47:THR:HG21	1:It:18:VAL:HG23	1.77	0.65
1:Dt:47:THR:HG21	1:Ft:17:LEU:HD23	1.78	0.65
1:Dk:47:THR:HG21	1:Fk:17:LEU:HD23	1.78	0.65
1:AA:66:ASP:OD1	3:YE:792:ARG:NH2	2.29	0.65
1:DP:47:THR:HG21	1:FP:17:LEU:HD23	1.78	0.65
1:ER:85:HIS:NE2	1:D4:28:THR:HG22	2.12	0.65
1:ER:88:VAL:CG2	1:D4:25:ASP:HA	2.27	0.65
1:BM:91:ILE:HD12	1:IL:21:ILE:HD13	1.78	0.65
1:HN:80:ILE:HD12	3:YL:848:ILE:CG2	2.27	0.65
1:Ag:66:ASP:OD1	3:Yf:792:ARG:NH2	2.27	0.65
1:Bg:11:MET:HB3	1:If:18:VAL:HG22	1.79	0.65
1:Di:87:GLU:HB2	1:Fi:28:THR:HG21	1.77	0.65
1:Hg:62:ARG:CG	3:Ye:848:ILE:HD11	2.24	0.65
2:PV:37:VAL:HG23	2:PW:3:ILE:HD11	1.76	0.65
1:Dd:47:THR:HG21	1:Fd:17:LEU:HD23	1.78	0.65
1:Ho:62:ARG:HE	3:Ym:869:GLY:HA2	1.62	0.65
3:Ym:707:ILE:HD13	1:Em:58:ASN:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dr:47:THR:HG21	1:Fr:17:LEU:HD23	1.78	0.65
1:Hj:62:ARG:HE	3:Yr:869:GLY:HA2	1.62	0.65
1:DS:27:MET:HB3	1:DS:60:ALA:HB1	1.79	0.65
1:Df:58:ASN:HB2	1:Df:80:ILE:CG1	2.24	0.65
1:LI:30:ALA:O	1:JU:82:ALA:HB3	1.96	0.65
1:D3:87:GLU:HB2	1:F3:28:THR:HG21	1.77	0.65
1:M5:31:ALA:O	1:M0:83:ARG:HD2	1.97	0.65
1:D9:47:THR:HG21	1:F9:17:LEU:HD23	1.78	0.65
1:H8:80:ILE:HD12	3:Y6:848:ILE:CG2	2.27	0.65
1:L8:62:ARG:HB3	3:X8:633:GLY:O	1.97	0.65
1:BH:47:THR:HG21	1:IG:18:VAL:HG23	1.78	0.65
1:BW:47:THR:HG21	1:IV:18:VAL:HG23	1.78	0.65
1:Aw:69:GLU:C	3:Yu:841:PRO:HG3	2.18	0.65
1:Aq:69:GLU:C	3:Yj:841:PRO:HG3	2.19	0.65
1:Fh:44:GLY:N	1:Dh:43:GLY:HA3	2.12	0.65
1:AD:69:GLU:C	3:YB:841:PRO:HG3	2.18	0.65
1:DA:47:THR:HG21	1:FA:17:LEU:HD23	1.78	0.65
1:E4:58:ASN:HB2	3:Y4:707:ILE:HD13	1.78	0.65
1:H7:62:ARG:CA	3:Y0:848:ILE:HD11	2.25	0.65
3:X6:643:TYR:CE1	1:DQ:58:ASN:HB3	2.32	0.65
1:AG:66:ASP:OD1	3:YK:792:ARG:NH2	2.29	0.65
1:HF:62:ARG:HE	3:YN:869:GLY:HA2	1.62	0.65
1:Hi:62:ARG:HE	3:Yg:869:GLY:HA2	1.62	0.65
1:A9:69:GLU:C	3:Y7:841:PRO:HG3	2.18	0.64
1:B9:62:ARG:HB3	3:Y8:720:ALA:HB3	1.79	0.64
1:B9:91:ILE:HD12	1:I8:21:ILE:HD13	1.77	0.64
1:DQ:47:THR:HG21	1:FQ:17:LEU:HD23	1.78	0.64
1:HT:62:ARG:HE	3:YR:869:GLY:HA2	1.62	0.64
1:FM:28:THR:HG21	1:DM:87:GLU:HB2	1.77	0.64
1:Ff:17:LEU:HD23	1:Df:47:THR:HG21	1.78	0.64
1:DZ:35:LEU:CD2	1:Ed:91:ILE:HG21	2.27	0.64
1:DZ:47:THR:HG21	1:FZ:17:LEU:HD23	1.78	0.64
1:Bc:91:ILE:HD12	1:Ib:21:ILE:HD13	1.77	0.64
1:Lu:30:ALA:O	1:Jr:82:ALA:HB3	1.96	0.64
1:Bm:11:MET:HB3	1:Il:18:VAL:HG22	1.79	0.64
3:X7:616:ILE:HG23	1:DM:80:ILE:CD1	2.26	0.64
1:Df:53:GLU:O	1:Df:54:THR:C	2.39	0.64
1:Fl:17:LEU:HD23	1:Dl:47:THR:HG21	1.78	0.64
3:XE:628:THR:HB	1:Jg:79:HIS:HD2	1.01	0.64
1:D2:28:THR:CG2	1:Ef:87:GLU:OE1	2.45	0.64
1:D5:35:LEU:CD2	1:E9:91:ILE:HG21	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H3:80:ILE:HD12	3:Y1:848:ILE:CG2	2.27	0.64
1:D8:47:THR:HG21	1:F8:17:LEU:HD23	1.78	0.64
3:X6:616:ILE:HG22	1:DQ:80:ILE:HD12	1.78	0.64
1:BO:47:THR:HG21	1:IN:18:VAL:HG23	1.77	0.64
1:Af:22:GLU:OE2	3:Yi:865:GLY:N	2.17	0.64
1:Hh:62:ARG:CA	3:Yf:848:ILE:HD11	2.27	0.64
1:HZ:62:ARG:HE	3:YX:869:GLY:HA2	1.62	0.64
1:Jq:80:ILE:HD12	3:XD:627:VAL:CG1	2.27	0.64
1:D1:87:GLU:HB2	1:F1:28:THR:HG21	1.77	0.64
1:J4:29:LYS:O	1:D4:83:ARG:CD	2.44	0.64
1:AJ:69:GLU:C	3:YH:841:PRO:HG3	2.18	0.64
1:HI:80:ILE:HD12	3:YG:848:ILE:CG2	2.27	0.64
1:BN:11:MET:HB3	1:IM:18:VAL:HG22	1.79	0.64
1:BO:62:ARG:HB3	3:YN:720:ALA:HB3	1.79	0.64
1:DO:87:GLU:HB2	1:FO:28:THR:HG21	1.77	0.64
1:De:47:THR:HG21	1:Fe:17:LEU:HD23	1.78	0.64
1:Ei:91:ILE:HG21	1:DV:35:LEU:CD2	2.27	0.64
1:Lg:62:ARG:HH11	3:Xg:634:GLU:HA	1.61	0.64
2:Pg:70:ASP:HB3	2:Ph:54:GLY:HA3	1.80	0.64
1:BX:11:MET:HB3	1:IW:18:VAL:HG22	1.79	0.64
1:Da:47:THR:HG21	1:Fa:17:LEU:HD23	1.78	0.64
1:Hn:62:ARG:CA	3:Yl:848:ILE:HD11	2.27	0.64
1:As:69:GLU:C	3:Yq:841:PRO:HG3	2.18	0.64
1:HC:80:ILE:HD12	3:YA:848:ILE:CG2	2.27	0.64
1:L5:62:ARG:HH21	3:X5:644:VAL:HG23	1.58	0.64
1:D0:47:THR:HG21	1:F0:17:LEU:HD23	1.78	0.64
1:DT:47:THR:HG21	1:FT:17:LEU:HD23	1.78	0.64
1:Dv:47:THR:HG21	1:Fv:17:LEU:HD23	1.78	0.64
1:Hl:62:ARG:CG	3:Yo:848:ILE:HD11	2.25	0.64
1:Lq:83:ARG:CZ	1:Dh:32:GLU:HA	2.26	0.64
1:Dn:11:MET:HE1	1:Dn:81:ILE:HG13	1.79	0.64
1:MK:31:ALA:O	1:MF:83:ARG:HD2	1.97	0.64
1:D0:58:ASN:ND2	3:XR:621:VAL:HG21	2.12	0.64
1:H7:62:ARG:CG	3:Y0:848:ILE:HD11	2.24	0.64
1:H8:62:ARG:HG2	3:Y6:848:ILE:HD13	1.62	0.64
1:HS:62:ARG:CA	3:YQ:848:ILE:HD11	2.27	0.64
2:PQ:14:ASN:ND2	2:PR:76:ILE:CD1	2.61	0.64
3:XG:627:VAL:HG21	1:JO:62:ARG:HG2	1.78	0.64
1:JL:62:ARG:CZ	3:Xx:624:SER:HB2	2.28	0.64
1:EU:81:ILE:HG21	1:DH:25:ASP:OD2	1.97	0.64
3:Xk:627:VAL:HG21	1:Js:62:ARG:HG2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hs:62:ARG:CA	3:Yq:848:ILE:HD11	2.27	0.64
1:HB:62:ARG:HE	3:YE:869:GLY:HA2	1.61	0.64
1:D2:47:THR:HG21	1:F2:17:LEU:HD23	1.78	0.64
1:E0:77:ALA:HB1	1:DQ:18:VAL:HG11	1.79	0.64
2:P7:14:ASN:ND2	2:P8:76:ILE:CD1	2.61	0.64
3:XV:627:VAL:HG21	1:Jd:62:ARG:HG2	1.79	0.64
1:Bk:47:THR:HG21	1:Io:18:VAL:HG23	1.77	0.64
1:Dp:87:GLU:HB2	1:Fp:28:THR:HG21	1.77	0.64
2:PB:14:ASN:ND2	2:PC:76:ILE:CD1	2.61	0.64
1:B6:91:ILE:HD12	1:I0:21:ILE:HD13	1.80	0.64
1:D0:28:THR:CG2	1:EQ:87:GLU:OE1	2.46	0.64
1:H8:62:ARG:HG2	3:Y6:848:ILE:HD11	1.77	0.64
1:JL:62:ARG:HD3	3:Xx:620:SER:O	1.98	0.64
1:Hf:62:ARG:CG	3:Yi:848:ILE:HD11	2.25	0.64
1:Lf:30:ALA:O	1:Jc:82:ALA:HB3	1.96	0.64
1:DW:25:ASP:HA	1:Ej:88:VAL:HG21	1.79	0.64
1:Bb:47:THR:HG21	1:Ia:18:VAL:HG23	1.78	0.64
1:Bd:62:ARG:HB3	3:Yc:720:ALA:HB3	1.79	0.64
1:Ea:85:HIS:CG	1:DS:28:THR:CG2	2.81	0.64
1:Ax:66:ASP:OD1	3:Yw:792:ARG:NH2	2.30	0.64
1:Dv:55:GLY:O	3:X8:643:TYR:CE2	2.06	0.64
1:Ex:91:ILE:HG21	1:Dk:35:LEU:CD2	2.27	0.64
1:Dw:32:GLU:HA	1:LM:83:ARG:CZ	2.27	0.64
1:DF:7:ILE:CD1	1:JF:32:GLU:CD	2.71	0.64
1:B3:11:MET:HB3	1:I2:18:VAL:HG22	1.79	0.64
2:P2:14:ASN:ND2	2:P3:76:ILE:CD1	2.61	0.64
1:AP:66:ASP:OD1	3:YT:792:ARG:NH2	2.29	0.64
1:HQ:62:ARG:CA	3:YT:848:ILE:HD11	2.25	0.64
1:JT:82:ALA:HB3	1:LH:30:ALA:O	1.98	0.64
1:EJ:58:ASN:HB2	3:YJ:707:ILE:HD13	1.78	0.64
1:JJ:62:ARG:CZ	3:Xn:624:SER:HB2	2.27	0.64
1:JL:82:ALA:HB3	1:Lx:30:ALA:O	1.97	0.64
1:Be:47:THR:HG21	1:Ii:18:VAL:HG23	1.77	0.64
1:Lf:62:ARG:HB3	3:Xf:633:GLY:O	1.98	0.64
1:Al:22:GLU:OE2	3:Yo:865:GLY:N	2.17	0.64
1:Bo:80:ILE:HD11	3:Yn:724:ILE:HD11	1.80	0.64
1:Hn:62:ARG:CG	3:Yl:848:ILE:HD11	2.25	0.64
1:DB:35:LEU:HD21	1:Eu:91:ILE:HG21	1.80	0.64
1:MC:72:GLY:CA	1:JC:77:ALA:HB2	2.27	0.64
1:NB:71:VAL:HG22	3:XB:639:SER:HB3	1.80	0.64
1:B1:91:ILE:HD12	1:I5:21:ILE:HD13	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:47:THR:HG21	1:F1:17:LEU:HD23	1.78	0.64
1:B8:11:MET:HB3	1:I7:18:VAL:HG22	1.80	0.64
1:F6:79:HIS:CE1	3:X6:726:GLY:HA2	2.33	0.64
1:FI:39:GLN:NE2	1:FI:97:GLN:HE22	1.96	0.64
1:HH:62:ARG:HE	3:YK:869:GLY:HA2	1.61	0.64
1:JH:82:ALA:HB3	1:La:30:ALA:O	1.98	0.64
1:BL:91:ILE:HD13	1:IF:35:LEU:HD21	1.79	0.64
1:DO:47:THR:HG21	1:FO:17:LEU:HD23	1.78	0.64
1:HM:62:ARG:CA	3:YF:848:ILE:HD11	2.25	0.64
1:LL:30:ALA:O	1:Jl:82:ALA:HB3	1.97	0.64
2:PM:14:ASN:ND2	2:PN:76:ILE:CD1	2.61	0.64
1:HX:80:ILE:HD12	3:YV:848:ILE:CG2	2.27	0.64
1:Hx:62:ARG:HE	3:Yv:869:GLY:HA2	1.62	0.64
1:Hm:62:ARG:HG2	3:Yk:848:ILE:HD11	1.77	0.64
2:PB:14:ASN:HD21	2:PC:76:ILE:CB	2.11	0.64
1:BQ:91:ILE:HD12	1:IP:21:ILE:HD13	1.77	0.64
1:KS:88:VAL:HG21	1:OS:25:ASP:HA	1.80	0.64
1:DK:35:LEU:CD2	1:EO:91:ILE:HG21	2.27	0.64
2:PH:14:ASN:ND2	2:PI:76:ILE:CD1	2.61	0.64
1:Eh:77:ALA:HB1	1:Dp:18:VAL:HG11	1.80	0.64
1:Hh:62:ARG:CG	3:Yf:848:ILE:HD11	2.25	0.64
2:Pg:66:SER:HB2	2:Ph:60:GLU:HG2	1.80	0.64
1:DX:87:GLU:HB2	1:FX:28:THR:HG21	1.78	0.64
1:EX:58:ASN:HB2	3:YX:707:ILE:HD13	1.78	0.64
3:XZ:624:SER:CB	1:JI:62:ARG:CZ	2.59	0.64
2:Pb:14:ASN:ND2	2:Pc:76:ILE:CD1	2.61	0.64
1:Bw:47:THR:HG21	1:Iv:18:VAL:HG23	1.78	0.64
1:Ku:88:VAL:HG21	1:Ou:25:ASP:HA	1.80	0.64
1:Ov:85:HIS:ND1	1:Jv:28:THR:HG21	2.13	0.64
1:Ov:91:ILE:HG21	1:Jv:35:LEU:HD21	1.80	0.64
1:Fn:71:VAL:CG2	3:XY:617:SER:OG	2.37	0.64
1:Fp:79:HIS:CE1	3:Xp:726:GLY:HA2	2.33	0.64
3:Xq:720:ALA:HB2	1:Fq:66:ASP:HB2	1.79	0.64
1:AB:69:GLU:C	3:YE:841:PRO:HG3	2.19	0.63
1:CA:18:VAL:HG22	1:HE:11:MET:HB3	1.80	0.63
1:B5:80:ILE:HD11	3:Y4:724:ILE:HD11	1.80	0.63
1:D2:87:GLU:HB2	1:F2:28:THR:HG21	1.77	0.63
1:HX:62:ARG:HG2	3:YV:848:ILE:HD11	1.77	0.63
1:Aa:66:ASP:OD1	3:YU:792:ARG:NH2	2.29	0.63
1:Fb:66:ASP:HB2	3:Xb:720:ALA:HB2	1.79	0.63
1:Gu:39:GLN:HE21	1:Gu:93:PRO:HG3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mo:31:ALA:O	1:Mj:83:ARG:HD2	1.97	0.63
1:C6:18:VAL:HG22	1:H0:11:MET:HB3	1.80	0.63
1:J7:7:ILE:HG12	1:Lw:32:GLU:OE1	1.99	0.63
1:K7:88:VAL:HG21	1:O7:25:ASP:HA	1.81	0.63
1:LS:65:ALA:CB	3:XS:636:GLN:CD	2.70	0.63
1:AI:66:ASP:OD1	3:YH:792:ARG:NH2	2.27	0.63
1:BG:91:ILE:HD12	1:IK:21:ILE:HD13	1.80	0.63
1:KH:88:VAL:HG21	1:OH:25:ASP:HA	1.81	0.63
1:FM:17:LEU:HD23	1:DM:47:THR:HG21	1.78	0.63
2:Pf:14:ASN:ND2	2:Pg:76:ILE:CD1	2.61	0.63
1:AX:91:ILE:HD13	1:BX:35:LEU:HD21	1.80	0.63
1:AY:69:GLU:C	3:YW:841:PRO:HG3	2.18	0.63
1:BV:91:ILE:HD12	1:IZ:21:ILE:HD13	1.80	0.63
1:HY:62:ARG:CA	3:YW:848:ILE:HD11	2.27	0.63
1:Kd:88:VAL:HG21	1:Od:25:ASP:HA	1.81	0.63
1:Bv:11:MET:HB3	1:Iu:18:VAL:HG22	1.79	0.63
1:Ct:18:VAL:HG22	1:Hx:11:MET:HB3	1.80	0.63
1:Cp:18:VAL:HG22	1:Hj:11:MET:HB3	1.80	0.63
1:Cr:25:ASP:HA	1:Hq:88:VAL:HG21	1.81	0.63
1:DS:58:ASN:HB3	3:Xb:643:TYR:CE1	2.33	0.63
1:AC:66:ASP:OD1	3:YB:792:ARG:NH2	2.27	0.63
1:EB:91:ILE:HG21	1:Du:35:LEU:CD2	2.28	0.63
1:KE:88:VAL:HG21	1:OE:25:ASP:HA	1.80	0.63
1:LB:62:ARG:HB3	3:XB:633:GLY:O	1.98	0.63
1:C3:25:ASP:HA	1:H2:88:VAL:HG21	1.81	0.63
1:K4:88:VAL:HG21	1:O4:25:ASP:HA	1.81	0.63
1:A8:66:ASP:OD1	3:Y7:792:ARG:NH2	2.27	0.63
1:ET:91:ILE:HG21	1:DG:35:LEU:CD2	2.27	0.63
1:HR:80:ILE:HD12	3:YP:848:ILE:CG2	2.27	0.63
1:CG:18:VAL:HG22	1:HK:11:MET:HB3	1.81	0.63
2:PH:14:ASN:HD21	2:PI:76:ILE:CB	2.11	0.63
1:HF:62:ARG:HG2	3:YN:848:ILE:HD11	1.77	0.63
1:KM:88:VAL:HG21	1:OM:25:ASP:HA	1.81	0.63
1:Jh:30:ALA:O	1:Dh:82:ALA:HB3	1.97	0.63
1:CX:25:ASP:HA	1:HW:88:VAL:HG21	1.81	0.63
1:MZ:31:ALA:O	1:MU:83:ARG:HD2	1.97	0.63
3:XZ:616:ILE:HG21	1:DI:80:ILE:HD12	1.24	0.63
1:KU:88:VAL:HG21	1:OU:25:ASP:HA	1.81	0.63
1:Kt:88:VAL:HG21	1:Ot:25:ASP:HA	1.81	0.63
1:Lu:62:ARG:HB3	3:Xu:633:GLY:O	1.98	0.63
1:Ks:88:VAL:HG21	1:Os:25:ASP:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FF:28:THR:HG21	1:DF:87:GLU:HB2	1.79	0.63
1:BA:91:ILE:HD12	1:IE:21:ILE:HD13	1.80	0.63
1:KB:88:VAL:HG21	1:OB:25:ASP:HA	1.81	0.63
1:G0:15:ARG:HB2	1:G0:73:ASP:HB2	1.81	0.63
1:AQ:22:GLU:OE2	3:YT:865:GLY:N	2.17	0.63
1:LQ:62:ARG:HB3	3:XQ:633:GLY:O	1.98	0.63
1:AH:69:GLU:C	3:YK:841:PRO:HG3	2.19	0.63
1:MM:83:ARG:HD2	1:Mw:31:ALA:O	1.99	0.63
1:Gf:39:GLN:HE21	1:Gf:93:PRO:HG3	1.63	0.63
1:Hg:62:ARG:HG2	3:Ye:848:ILE:HD11	1.78	0.63
1:Bc:11:MET:HB3	1:Ib:18:VAL:HG22	1.80	0.63
1:Jx:82:ALA:HB3	1:Ll:30:ALA:O	1.98	0.63
1:Nu:71:VAL:HG22	3:Xu:639:SER:HB3	1.80	0.63
2:Pu:14:ASN:ND2	2:Pv:76:ILE:CD1	2.61	0.63
1:Bm:59:ALA:HB1	3:Yl:716:PRO:HB2	1.81	0.63
1:Jn:62:ARG:CZ	3:XY:624:SER:N	2.62	0.63
1:Ln:83:ARG:CZ	1:DJ:32:GLU:HA	2.28	0.63
2:Pl:14:ASN:ND2	2:Pm:76:ILE:CD1	2.61	0.63
1:Gj:15:ARG:HB2	1:Gj:73:ASP:HB2	1.80	0.63
1:JU:62:ARG:CZ	3:XI:624:SER:HB2	2.27	0.63
1:K9:88:VAL:HG21	1:O9:25:ASP:HA	1.81	0.63
1:KP:88:VAL:HG21	1:OP:25:ASP:HA	1.81	0.63
1:NQ:71:VAL:HG22	3:XQ:639:SER:HB3	1.80	0.63
1:AO:69:GLU:C	3:YM:841:PRO:HG3	2.18	0.63
1:Eg:77:ALA:HB2	1:DD:72:GLY:HA2	1.80	0.63
1:Nf:71:VAL:HG22	3:Xf:639:SER:HB3	1.80	0.63
1:KV:88:VAL:HG21	1:OV:25:ASP:HA	1.81	0.63
2:PW:14:ASN:ND2	2:PX:76:ILE:CD1	2.61	0.63
1:AU:66:ASP:OD1	3:Yd:792:ARG:NH2	2.30	0.63
1:Et:85:HIS:CE1	1:Dr:28:THR:HG22	2.34	0.63
2:Pu:14:ASN:HD21	2:Pv:76:ILE:CB	2.11	0.63
1:Bk:91:ILE:HD12	1:Io:21:ILE:HD13	1.80	0.63
1:Hl:62:ARG:CA	3:Yo:848:ILE:HD11	2.25	0.63
2:Pq:14:ASN:ND2	2:Pr:76:ILE:CD1	2.61	0.63
1:Dw:33:VAL:HG13	1:Dw:56:ALA:HB1	1.79	0.63
1:FF:12:ILE:HG23	1:FF:75:LEU:HD12	1.81	0.63
1:AC:43:GLY:O	3:YA:830:THR:HG22	1.99	0.63
1:HE:62:ARG:HE	3:YC:869:GLY:HA2	1.62	0.63
1:J5:82:ALA:HB3	1:L0:30:ALA:O	1.99	0.63
2:PR:70:ASP:HB3	2:PS:54:GLY:HA3	1.80	0.63
1:AI:43:GLY:O	3:YG:830:THR:HG22	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kh:88:VAL:HG21	1:Oh:25:ASP:HA	1.81	0.63
1:EY:58:ASN:HB2	3:YY:707:ILE:HD13	1.78	0.63
2:PW:14:ASN:HD21	2:PX:76:ILE:CB	2.11	0.63
1:Fa:79:HIS:CE1	3:Xa:726:GLY:HA2	2.33	0.63
2:Pv:66:SER:HB2	2:Pw:60:GLU:HG2	1.80	0.63
1:Ar:66:ASP:OD1	3:Yq:792:ARG:NH2	2.27	0.63
1:A2:22:GLU:OE2	3:Y5:865:GLY:N	2.17	0.63
1:KK:88:VAL:HG21	1:OK:25:ASP:HA	1.81	0.63
1:ML:83:ARG:HD2	1:Ml:31:ALA:O	1.99	0.63
1:Be:91:ILE:HD12	1:Ii:21:ILE:HD13	1.80	0.63
1:Ee:85:HIS:CE1	1:Dc:28:THR:HG22	2.34	0.63
1:Hf:62:ARG:CA	3:Yi:848:ILE:HD11	2.25	0.63
1:JZ:82:ALA:HB3	1:LU:30:ALA:O	1.99	0.63
1:Cc:25:ASP:HA	1:Hb:88:VAL:HG21	1.81	0.63
2:P2:14:ASN:HD21	2:P3:76:ILE:CB	2.11	0.63
1:EP:85:HIS:CE1	1:DN:28:THR:HG22	2.34	0.63
1:Ji:82:ALA:HB3	1:LW:30:ALA:O	1.98	0.63
1:AX:66:ASP:OD1	3:YW:792:ARG:NH2	2.27	0.63
1:CV:18:VAL:HG22	1:HZ:11:MET:HB3	1.80	0.63
1:Bt:91:ILE:HD12	1:Ix:21:ILE:HD13	1.80	0.63
1:Kw:88:VAL:HG21	1:Ow:25:ASP:HA	1.81	0.63
1:An:69:GLU:C	3:Yl:841:PRO:HG3	2.18	0.63
1:Kn:88:VAL:HG21	1:On:25:ASP:HA	1.81	0.63
2:Pq:14:ASN:HD21	2:Pr:76:ILE:CB	2.11	0.63
1:Km:88:VAL:HG21	1:Om:25:ASP:HA	1.81	0.63
1:DF:9:LEU:HD11	1:DF:49:LEU:HB3	1.80	0.63
1:DB:88:VAL:HG21	1:FB:25:ASP:HA	1.81	0.63
1:DC:61:VAL:CG1	3:Xr:616:ILE:HD12	2.29	0.63
1:EE:91:ILE:HG21	1:D1:35:LEU:CD2	2.27	0.63
1:LB:83:ARG:NH1	1:D8:28:THR:O	2.32	0.63
1:E4:91:ILE:HG21	1:DR:35:LEU:CD2	2.28	0.63
1:E5:91:ILE:HG21	1:D9:35:LEU:CD2	2.29	0.63
1:F4:25:ASP:CA	1:D4:88:VAL:HG21	2.28	0.63
1:K2:88:VAL:HG21	1:O2:25:ASP:HA	1.81	0.63
1:K3:88:VAL:HG21	1:O3:25:ASP:HA	1.81	0.63
1:GH:39:GLN:HE21	1:GH:93:PRO:HG3	1.63	0.63
1:HK:62:ARG:HE	3:YI:869:GLY:HA2	1.62	0.63
1:KF:88:VAL:HG21	1:OF:25:ASP:HA	1.81	0.63
1:KL:88:VAL:HG21	1:OL:25:ASP:HA	1.81	0.63
1:AX:43:GLY:O	3:YV:830:THR:HG22	1.99	0.63
1:KW:88:VAL:HG21	1:OW:25:ASP:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kb:88:VAL:HG21	1:Ob:25:ASP:HA	1.81	0.63
1:Ev:88:VAL:HG21	1:D7:25:ASP:CG	2.23	0.63
1:Ht:62:ARG:CG	3:Yw:848:ILE:HD11	2.29	0.63
1:Kx:88:VAL:HG21	1:Ox:25:ASP:HA	1.81	0.63
2:Pv:70:ASP:HB3	2:Pw:54:GLY:HA3	1.80	0.63
1:Eo:91:ILE:HG21	1:Ds:35:LEU:CD2	2.29	0.63
1:Ep:13:GLU:HB2	1:Dh:18:VAL:CG2	2.28	0.63
2:PQ:14:ASN:HD21	2:PR:76:ILE:CB	2.11	0.62
1:CL:18:VAL:HG22	1:HF:11:MET:HB3	1.81	0.62
1:HO:62:ARG:CA	3:YM:848:ILE:HD11	2.27	0.62
3:YF:707:ILE:HD13	1:EF:58:ASN:HB2	1.81	0.62
1:Ah:69:GLU:C	3:Yf:841:PRO:HG3	2.18	0.62
1:Kg:88:VAL:HG21	1:Og:25:ASP:HA	1.81	0.62
1:BX:59:ALA:HB1	3:YW:716:PRO:HB2	1.81	0.62
1:Kc:88:VAL:HG21	1:Oc:25:ASP:HA	1.81	0.62
1:J6:11:MET:HE3	1:J6:79:HIS:HB3	1.80	0.62
1:NI:71:VAL:HG22	3:XI:639:SER:HB3	1.80	0.62
1:HC:62:ARG:HG2	3:YA:848:ILE:HD13	1.62	0.62
1:D3:80:ILE:H	3:Xc:618:GLY:HA3	1.65	0.62
1:H1:62:ARG:CG	3:Y4:848:ILE:HD11	2.29	0.62
1:K2:25:ASP:HA	1:N2:88:VAL:HG21	1.82	0.62
1:L5:58:ASN:CG	3:X5:643:TYR:HD2	2.06	0.62
1:C8:25:ASP:HA	1:H7:88:VAL:HG21	1.81	0.62
1:BI:11:MET:HB3	1:IH:18:VAL:HG22	1.79	0.62
1:BK:80:ILE:HD11	3:YJ:724:ILE:HD11	1.80	0.62
1:Ke:88:VAL:HG21	1:Oe:25:ASP:HA	1.81	0.62
1:Cv:25:ASP:HA	1:Hu:88:VAL:HG21	1.81	0.62
1:Am:43:GLY:O	3:Yk:830:THR:HG22	1.99	0.62
1:Br:11:MET:HB3	1:Iq:18:VAL:HG22	1.80	0.62
1:Kj:88:VAL:HG21	1:Oj:25:ASP:HA	1.81	0.62
1:BC:11:MET:HB3	1:IB:18:VAL:HG22	1.79	0.62
1:GB:39:GLN:HE21	1:GB:93:PRO:HG3	1.63	0.62
1:C1:18:VAL:HG22	1:H5:11:MET:HB3	1.80	0.62
1:H6:62:ARG:CG	3:Y9:848:ILE:HD11	2.29	0.62
1:K0:88:VAL:HG21	1:O0:25:ASP:HA	1.81	0.62
1:GQ:39:GLN:HE21	1:GQ:93:PRO:HG3	1.63	0.62
1:JS:62:ARG:NH2	3:Xb:624:SER:CB	2.61	0.62
1:KQ:88:VAL:HG21	1:OQ:25:ASP:HA	1.81	0.62
1:KS:25:ASP:HA	1:NS:88:VAL:HG21	1.81	0.62
1:BI:59:ALA:HB1	3:YH:716:PRO:HB2	1.81	0.62
1:FJ:18:VAL:HG22	1:DJ:11:MET:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KF:25:ASP:HA	1:NF:88:VAL:HG21	1.82	0.62
1:KN:25:ASP:HA	1:NN:88:VAL:HG21	1.81	0.62
1:Ag:43:GLY:O	3:Ye:830:THR:HG22	1.99	0.62
1:AZ:69:GLU:O	3:YX:841:PRO:CG	2.32	0.62
1:DW:55:GLY:C	3:Xp:643:TYR:OH	2.41	0.62
1:Ac:43:GLY:O	3:Ya:830:THR:HG22	1.99	0.62
1:FU:66:ASP:HB2	3:XU:720:ALA:HB2	1.81	0.62
1:Kk:88:VAL:HG21	1:Ok:25:ASP:HA	1.81	0.62
1:Ar:43:GLY:O	3:Yp:830:THR:HG22	1.99	0.62
1:DE:25:ASP:HA	1:E1:88:VAL:HG21	1.82	0.62
1:EA:85:HIS:CE1	1:D8:28:THR:HG22	2.34	0.62
1:JB:58:ASN:OD1	3:Xv:630:ASN:ND2	2.31	0.62
1:KB:25:ASP:HA	1:NB:88:VAL:HG21	1.81	0.62
1:KD:25:ASP:HA	1:ND:88:VAL:HG21	1.81	0.62
1:L5:79:HIS:HA	3:X5:639:SER:O	1.99	0.62
1:K7:25:ASP:HA	1:N7:88:VAL:HG21	1.81	0.62
3:X6:626:LEU:HD22	1:JQ:65:ALA:HB1	1.81	0.62
1:AR:43:GLY:O	3:YP:830:THR:HG22	1.99	0.62
1:BP:91:ILE:HD12	1:IT:21:ILE:HD13	1.80	0.62
1:BR:11:MET:HB3	1:IQ:18:VAL:HG22	1.79	0.62
1:CP:18:VAL:HG22	1:HT:11:MET:HB3	1.80	0.62
1:LQ:83:ARG:NH1	1:DN:28:THR:O	2.32	0.62
1:KH:25:ASP:HA	1:NH:88:VAL:HG21	1.81	0.62
1:KJ:88:VAL:HG21	1:OJ:25:ASP:HA	1.81	0.62
1:NG:69:GLU:HG2	3:XG:685:MET:HE1	1.82	0.62
1:GF:15:ARG:HB2	1:GF:73:ASP:HB2	1.81	0.62
1:Kg:25:ASP:HA	1:Ng:88:VAL:HG21	1.81	0.62
2:Pf:13:THR:OG1	2:Pg:78:ASP:OD2	2.17	0.62
3:Xi:643:TYR:CE2	1:Dp:55:GLY:HA2	2.33	0.62
1:AU:69:GLU:O	3:Yc:841:PRO:CG	2.32	0.62
1:Ea:85:HIS:ND1	1:DS:28:THR:HG21	2.15	0.62
1:GU:15:ARG:HB2	1:GU:73:ASP:HB2	1.81	0.62
1:Kd:25:ASP:HA	1:Nd:88:VAL:HG21	1.81	0.62
1:Aq:22:GLU:OE2	3:Yj:865:GLY:N	2.17	0.62
1:Bs:62:ARG:HB3	3:Yr:720:ALA:HB3	1.79	0.62
1:Dl:18:VAL:HG22	1:EF:11:MET:HB3	1.81	0.62
1:DB:25:ASP:CA	1:Eu:88:VAL:HG21	2.30	0.62
1:JE:82:ALA:HB3	1:L2:30:ALA:O	1.98	0.62
1:KD:88:VAL:HG21	1:OD:25:ASP:HA	1.81	0.62
1:G2:39:GLN:HE21	1:G2:93:PRO:HG3	1.63	0.62
1:N1:69:GLU:HG2	3:X1:685:MET:HE1	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KQ:25:ASP:HA	1:NQ:88:VAL:HG21	1.81	0.62
1:EJ:77:ALA:HB2	1:Dm:72:GLY:HA2	1.80	0.62
1:KJ:25:ASP:HA	1:NJ:88:VAL:HG21	1.81	0.62
1:CN:25:ASP:HA	1:HM:88:VAL:HG21	1.81	0.62
1:Li:30:ALA:O	1:Jp:82:ALA:HB3	1.98	0.62
1:EU:76:VAL:HG13	1:DH:73:ASP:OD1	1.99	0.62
1:Jb:62:ARG:CZ	3:X4:624:SER:HB2	2.29	0.62
1:At:66:ASP:OD1	3:Yx:792:ARG:NH2	2.29	0.62
1:Kk:25:ASP:HA	1:Nk:88:VAL:HG21	1.81	0.62
1:Nk:69:GLU:HG2	3:Xk:685:MET:HE1	1.82	0.62
1:Fj:66:ASP:HB2	3:Xj:720:ALA:HB2	1.81	0.62
1:Hp:62:ARG:CG	3:Ys:848:ILE:HD11	2.29	0.62
1:EB:77:ALA:HB1	1:Du:18:VAL:HG11	1.81	0.62
1:A3:66:ASP:OD1	3:Y2:792:ARG:NH2	2.27	0.62
1:H5:62:ARG:HG2	3:Y3:848:ILE:HD11	1.77	0.62
1:K5:25:ASP:HA	1:N5:88:VAL:HG21	1.82	0.62
1:L5:66:ASP:CG	3:X5:636:GLN:HE22	2.08	0.62
1:K9:25:ASP:HA	1:N9:88:VAL:HG21	1.81	0.62
1:KO:88:VAL:HG21	1:OO:25:ASP:HA	1.81	0.62
1:Ki:25:ASP:HA	1:Ni:88:VAL:HG21	1.82	0.62
2:Pf:14:ASN:HD21	2:Pg:76:ILE:CB	2.11	0.62
1:LV:30:ALA:O	1:Jd:82:ALA:HB3	2.00	0.62
1:Hc:62:ARG:HG2	3:Ya:848:ILE:HD11	1.77	0.62
1:Ka:25:ASP:HA	1:Na:88:VAL:HG21	1.81	0.62
2:Pb:14:ASN:HD21	2:Pc:76:ILE:CB	2.11	0.62
1:Ev:85:HIS:N	1:D7:25:ASP:OD1	2.20	0.62
1:Kt:25:ASP:HA	1:Nt:88:VAL:HG21	1.82	0.62
1:Kv:25:ASP:HA	1:Nv:88:VAL:HG21	1.81	0.62
1:Ko:25:ASP:HA	1:No:88:VAL:HG21	1.82	0.62
1:Km:25:ASP:HA	1:Nm:88:VAL:HG21	1.81	0.62
1:KA:88:VAL:HG21	1:OA:25:ASP:HA	1.81	0.62
1:K1:88:VAL:HG21	1:O1:25:ASP:HA	1.81	0.62
1:A7:69:GLU:C	3:Y0:841:PRO:HG3	2.19	0.62
1:J0:82:ALA:HB3	1:LR:30:ALA:O	1.98	0.62
1:HP:62:ARG:CG	3:YS:848:ILE:HD11	2.29	0.62
1:KR:25:ASP:HA	1:NR:88:VAL:HG21	1.81	0.62
2:PR:66:SER:HB2	2:PS:60:GLU:HG2	1.80	0.62
3:YR:703:THR:HG21	1:D4:71:VAL:HG12	1.80	0.62
1:EK:91:ILE:HG21	1:DO:35:LEU:CD2	2.29	0.62
1:HI:62:ARG:HG2	3:YG:848:ILE:HD13	1.61	0.62
1:HK:62:ARG:HG2	3:YI:848:ILE:HD11	1.77	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:43:GLY:O	3:YL:830:THR:HG22	1.99	0.62
1:BZ:80:ILE:HD11	3:YY:724:ILE:HD11	1.80	0.62
1:KY:25:ASP:HA	1:NY:88:VAL:HG21	1.82	0.62
2:PW:13:THR:OG1	2:PX:78:ASP:OD2	2.18	0.62
1:Jw:62:ARG:HD2	3:XM:622:ASP:O	1.99	0.62
2:Pl:13:THR:OG1	2:Pm:78:ASP:OD2	2.18	0.62
1:Kq:25:ASP:HA	1:Nq:88:VAL:HG21	1.82	0.62
1:ED:77:ALA:HB1	1:Dg:18:VAL:HG11	1.81	0.62
1:K0:25:ASP:HA	1:N0:88:VAL:HG21	1.82	0.62
1:KP:25:ASP:HA	1:NP:88:VAL:HG21	1.82	0.62
1:KG:88:VAL:HG21	1:OG:25:ASP:HA	1.81	0.62
1:Di:25:ASP:HA	1:EV:88:VAL:HG21	1.82	0.62
1:DW:55:GLY:CA	3:Xp:643:TYR:CZ	2.60	0.62
1:KY:88:VAL:HG21	1:OY:25:ASP:HA	1.81	0.62
1:Ca:18:VAL:HG22	1:HU:11:MET:HB3	1.81	0.62
1:Av:43:GLY:O	3:Yt:830:THR:HG22	1.99	0.62
1:Cm:25:ASP:HA	1:Hl:88:VAL:HG21	1.81	0.62
1:Kq:88:VAL:HG21	1:Oq:25:ASP:HA	1.81	0.62
1:Kr:88:VAL:HG21	1:Or:25:ASP:HA	1.80	0.62
1:Df:55:GLY:O	1:Df:56:ALA:C	2.34	0.62
2:PC:66:SER:HB2	2:PD:60:GLU:HG2	1.80	0.62
1:J2:62:ARG:NH2	3:Xg:624:SER:CB	2.57	0.62
1:K6:25:ASP:HA	1:N6:88:VAL:HG21	1.81	0.62
2:PM:13:THR:OG1	2:PN:78:ASP:OD2	2.18	0.62
3:XL:622:ASP:O	1:Jl:62:ARG:HD2	1.98	0.62
1:Ke:25:ASP:HA	1:Ne:88:VAL:HG21	1.82	0.62
1:Fb:18:VAL:CG2	1:Db:13:GLU:OE2	2.28	0.62
1:KU:25:ASP:HA	1:NU:88:VAL:HG21	1.82	0.62
1:Ku:25:ASP:HA	1:Nu:88:VAL:HG21	1.81	0.62
1:Lu:83:ARG:NH1	1:Dr:28:THR:O	2.32	0.62
1:Ks:25:ASP:HA	1:Ns:88:VAL:HG21	1.81	0.62
1:A3:43:GLY:O	3:Y1:830:THR:HG22	1.99	0.62
1:L1:30:ALA:O	1:J9:82:ALA:HB3	2.00	0.62
1:K8:88:VAL:HG21	1:O8:25:ASP:HA	1.81	0.62
1:CR:25:ASP:HA	1:HQ:88:VAL:HG21	1.81	0.62
1:ER:85:HIS:CG	1:D4:28:THR:CG2	2.83	0.62
3:XK:643:TYR:HE1	1:Dm:59:ALA:H	1.47	0.62
1:IM:68:CYS:SG	1:IM:75:LEU:HD13	2.40	0.62
1:Cg:25:ASP:HA	1:Hf:88:VAL:HG21	1.81	0.62
1:CV:25:ASP:HA	1:HZ:88:VAL:HG21	1.82	0.62
1:KV:25:ASP:HA	1:NV:88:VAL:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ev:91:ILE:CG2	1:D7:35:LEU:CD2	2.77	0.62
2:Pq:13:THR:OG1	2:Pr:78:ASP:OD2	2.18	0.62
1:HE:62:ARG:HG2	3:YC:848:ILE:HD11	1.77	0.61
1:KA:25:ASP:HA	1:NA:88:VAL:HG21	1.82	0.61
2:PC:70:ASP:HB3	2:PD:54:GLY:HA3	1.80	0.61
1:A4:43:GLY:O	3:Y2:830:THR:HG22	2.00	0.61
1:C1:25:ASP:HA	1:H5:88:VAL:HG21	1.82	0.61
1:H2:62:ARG:CA	3:Y5:848:ILE:HD11	2.25	0.61
2:P2:13:THR:OG1	2:P3:78:ASP:OD2	2.18	0.61
1:A8:43:GLY:O	3:Y6:830:THR:HG22	1.99	0.61
1:A9:43:GLY:O	3:Y7:830:THR:HG22	2.00	0.61
1:K6:88:VAL:HG21	1:O6:25:ASP:HA	1.81	0.61
1:JK:82:ALA:HB3	1:LF:30:ALA:O	1.99	0.61
1:KG:25:ASP:HA	1:NG:88:VAL:HG21	1.82	0.61
1:AF:66:ASP:OD1	3:YO:792:ARG:NH2	2.30	0.61
1:Ce:18:VAL:HG22	1:Hi:11:MET:HB3	1.80	0.61
1:KZ:88:VAL:HG21	1:OZ:25:ASP:HA	1.81	0.61
1:Ka:88:VAL:HG21	1:Oa:25:ASP:HA	1.81	0.61
1:Dv:58:ASN:CG	3:X8:621:VAL:HG21	2.24	0.61
1:Hw:62:ARG:CA	3:Yu:848:ILE:HD11	2.27	0.61
2:Pu:13:THR:OG1	2:Pv:78:ASP:OD2	2.17	0.61
1:Cl:18:VAL:HG22	1:Hk:11:MET:HB3	1.82	0.61
1:Jn:62:ARG:HG2	3:XY:627:VAL:HG21	1.81	0.61
2:Pl:14:ASN:HD21	2:Pm:76:ILE:CB	2.11	0.61
1:DS:32:GLU:O	1:DS:56:ALA:HB3	2.00	0.61
1:Fh:40:PHE:CE2	1:Dh:39:GLN:OE1	2.53	0.61
1:DJ:11:MET:HE3	1:DJ:79:HIS:CB	2.29	0.61
1:B3:59:ALA:HB1	3:Y2:716:PRO:HB2	1.81	0.61
1:I0:68:CYS:SG	1:I0:75:LEU:HD13	2.41	0.61
1:JS:32:GLU:HB2	1:DS:7:ILE:CD1	2.20	0.61
1:HG:62:ARG:CG	3:YJ:848:ILE:HD11	2.29	0.61
1:IG:68:CYS:SG	1:IG:75:LEU:HD13	2.40	0.61
1:LG:30:ALA:O	1:JO:82:ALA:HB3	2.00	0.61
1:Cf:18:VAL:HG22	1:He:11:MET:HB3	1.83	0.61
1:HV:62:ARG:CG	3:YY:848:ILE:HD11	2.29	0.61
1:IV:68:CYS:SG	1:IV:75:LEU:HD13	2.40	0.61
1:Ad:43:GLY:O	3:Yb:830:THR:HG22	2.00	0.61
1:Au:69:GLU:C	3:Yx:841:PRO:HG3	2.19	0.61
1:Dv:61:VAL:HG12	3:X8:616:ILE:HD12	1.81	0.61
1:Dx:25:ASP:HA	1:Ek:88:VAL:HG21	1.82	0.61
1:Kv:88:VAL:HG21	1:Ov:25:ASP:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jo:82:ALA:HB3	1:Lj:30:ALA:O	1.99	0.61
1:Op:80:ILE:O	3:Xp:716:PRO:HD2	2.00	0.61
1:Dh:14:THR:HG22	1:Dh:75:LEU:HA	1.81	0.61
1:EC:85:HIS:HD2	1:Dq:29:LYS:HG2	1.64	0.61
1:HA:62:ARG:CG	3:YD:848:ILE:HD11	2.29	0.61
1:IA:68:CYS:SG	1:IA:75:LEU:HD13	2.41	0.61
1:I4:68:CYS:SG	1:I4:75:LEU:HD13	2.41	0.61
1:D0:28:THR:HG22	1:EQ:85:HIS:CE1	2.34	0.61
1:I7:68:CYS:SG	1:I7:75:LEU:HD13	2.41	0.61
3:X6:622:ASP:O	1:JQ:62:ARG:NH1	2.24	0.61
1:IQ:68:CYS:SG	1:IQ:75:LEU:HD13	2.41	0.61
1:JS:62:ARG:HG2	3:Xb:627:VAL:HG21	1.82	0.61
1:KR:88:VAL:HG21	1:OR:25:ASP:HA	1.81	0.61
1:KT:88:VAL:HG21	1:OT:25:ASP:HA	1.81	0.61
1:AM:69:GLU:C	3:YF:841:PRO:HG3	2.19	0.61
1:AO:43:GLY:O	3:YM:830:THR:HG22	2.00	0.61
1:CL:25:ASP:HA	1:HF:88:VAL:HG21	1.82	0.61
1:Eg:92:LEU:HD21	1:DD:21:ILE:HD13	1.82	0.61
1:CW:18:VAL:HG22	1:HV:11:MET:HB3	1.83	0.61
1:Ab:22:GLU:OE2	3:YU:865:GLY:N	2.17	0.61
1:Ea:84:VAL:HA	1:DS:25:ASP:OD2	2.00	0.61
1:Kx:25:ASP:HA	1:Nx:88:VAL:HG21	1.81	0.61
1:Gl:62:ARG:HG2	3:Yk:785:VAL:HG21	1.83	0.61
1:Cs:18:VAL:HG22	1:Hr:11:MET:HB3	1.83	0.61
1:Is:68:CYS:SG	1:Is:75:LEU:HD13	2.41	0.61
1:Kp:88:VAL:HG21	1:Op:25:ASP:HA	1.81	0.61
1:NL:32:GLU:HG3	1:EF:83:ARG:HH11	1.65	0.61
3:Y3:707:ILE:HD13	1:E3:58:ASN:HB2	1.82	0.61
1:J2:62:ARG:HG2	3:Xg:627:VAL:HG21	1.82	0.61
1:A7:22:GLU:OE2	3:Y0:865:GLY:N	2.17	0.61
1:F0:66:ASP:HB2	3:X0:720:ALA:HB2	1.81	0.61
1:AR:69:GLU:O	3:YP:841:PRO:CG	2.37	0.61
1:IS:68:CYS:SG	1:IS:75:LEU:HD13	2.41	0.61
1:AH:22:GLU:OE2	3:YK:865:GLY:N	2.17	0.61
1:HL:62:ARG:CG	3:YO:848:ILE:HD11	2.29	0.61
1:IN:68:CYS:SG	1:IN:75:LEU:HD13	2.41	0.61
1:Gf:62:ARG:HG2	3:Ye:785:VAL:HG21	1.83	0.61
1:Ki:88:VAL:HG21	1:Oi:25:ASP:HA	1.81	0.61
1:KX:88:VAL:HG21	1:OX:25:ASP:HA	1.81	0.61
1:Ov:85:HIS:ND1	1:Jv:28:THR:HG22	2.14	0.61
1:Cn:18:VAL:HG22	1:Hm:11:MET:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:As:43:GLY:O	3:Yq:830:THR:HG22	2.00	0.61
1:Jq:30:ALA:O	1:Dq:82:ALA:HB3	1.99	0.61
1:Dh:19:PRO:HG3	1:Dh:72:GLY:HA3	1.82	0.61
1:KI:88:VAL:HG21	1:OI:25:ASP:HA	1.81	0.61
1:IC:68:CYS:SG	1:IC:75:LEU:HD13	2.41	0.61
1:ID:68:CYS:SG	1:ID:75:LEU:HD13	2.41	0.61
1:MD:31:ALA:O	1:Mh:83:ARG:HD2	2.00	0.61
1:A1:66:ASP:OD1	3:Y5:792:ARG:NH2	2.29	0.61
1:C2:18:VAL:HG22	1:H1:11:MET:HB3	1.83	0.61
1:D2:80:ILE:H	3:Xg:618:GLY:HA3	1.66	0.61
1:A0:66:ASP:OD1	3:Y9:792:ARG:NH2	2.30	0.61
3:X6:616:ILE:CG2	1:DQ:80:ILE:HD12	2.30	0.61
1:II:68:CYS:SG	1:II:75:LEU:HD13	2.41	0.61
1:KN:88:VAL:HG21	1:ON:25:ASP:HA	1.81	0.61
1:Ch:18:VAL:HG22	1:Hg:11:MET:HB3	1.83	0.61
1:Hf:62:ARG:HG2	3:Yi:848:ILE:HD11	1.81	0.61
1:Fb:35:LEU:HD21	1:Db:91:ILE:CG2	2.10	0.61
1:Kc:25:ASP:HA	1:Nc:88:VAL:HG21	1.81	0.61
1:Ck:18:VAL:HG22	1:Ho:11:MET:HB3	1.81	0.61
1:Hl:62:ARG:HG2	3:Yo:848:ILE:HD11	1.81	0.61
1:Cp:25:ASP:HA	1:Hj:88:VAL:HG21	1.83	0.61
1:Ep:81:ILE:HG21	1:Dh:25:ASP:OD2	1.99	0.61
1:Ir:68:CYS:SG	1:Ir:75:LEU:HD13	2.41	0.61
1:DJ:9:LEU:HD11	1:DJ:49:LEU:HB3	1.80	0.61
1:AB:22:GLU:OE2	3:YE:865:GLY:N	2.17	0.61
1:DB:25:ASP:HA	1:Eu:88:VAL:CG2	2.30	0.61
1:G2:62:ARG:HG2	3:Y1:785:VAL:HG21	1.83	0.61
1:K5:88:VAL:HG21	1:O5:25:ASP:HA	1.81	0.61
1:I9:68:CYS:SG	1:I9:75:LEU:HD13	2.41	0.61
1:IP:68:CYS:SG	1:IP:75:LEU:HD13	2.41	0.61
3:XL:643:TYR:CZ	1:Dl:55:GLY:O	2.51	0.61
1:IZ:68:CYS:SG	1:IZ:75:LEU:HD13	2.41	0.61
1:GU:32:GLU:HB2	1:KU:7:ILE:HD11	1.83	0.61
1:Hd:62:ARG:CA	3:Yb:848:ILE:HD11	2.27	0.61
1:La:58:ASN:HD21	3:Xa:644:VAL:HG13	1.65	0.61
1:Hw:62:ARG:HG3	3:Yu:848:ILE:CD1	2.24	0.61
1:Kw:25:ASP:HA	1:Nw:88:VAL:HG21	1.81	0.61
1:Kl:25:ASP:HA	1:Nl:88:VAL:HG21	1.81	0.61
1:Ko:88:VAL:HG21	1:Oo:25:ASP:HA	1.81	0.61
1:Ep:85:HIS:ND1	1:Dh:28:THR:CG2	2.64	0.61
1:KC:88:VAL:HG21	1:OC:25:ASP:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F4:71:VAL:HG22	1:D4:79:HIS:CD2	2.35	0.61
1:I5:68:CYS:SG	1:I5:75:LEU:HD13	2.41	0.61
1:K4:25:ASP:HA	1:N4:88:VAL:HG21	1.81	0.61
1:K8:25:ASP:HA	1:N8:88:VAL:HG21	1.81	0.61
1:GQ:62:ARG:HG2	3:YP:785:VAL:HG21	1.83	0.61
1:KT:25:ASP:HA	1:NT:88:VAL:HG21	1.82	0.61
1:CG:25:ASP:HA	1:HK:88:VAL:HG21	1.82	0.61
1:CJ:18:VAL:HG22	1:HI:11:MET:HB3	1.83	0.61
1:IJ:68:CYS:SG	1:IJ:75:LEU:HD13	2.41	0.61
1:AF:22:GLU:OE2	3:YN:865:GLY:N	2.18	0.61
1:KM:25:ASP:HA	1:NM:88:VAL:HG21	1.81	0.61
1:If:68:CYS:SG	1:If:75:LEU:HD13	2.41	0.61
1:Kf:25:ASP:HA	1:Nf:88:VAL:HG21	1.82	0.61
1:Kf:88:VAL:HG21	1:Of:25:ASP:HA	1.81	0.61
1:Kh:25:ASP:HA	1:Nh:88:VAL:HG21	1.81	0.61
1:LY:30:ALA:O	1:Jn:82:ALA:HB3	2.01	0.61
1:Ib:68:CYS:SG	1:Ib:75:LEU:HD13	2.41	0.61
1:Aw:43:GLY:O	3:Yu:830:THR:HG22	2.00	0.61
1:Fw:18:VAL:CA	1:Dw:11:MET:HE2	2.30	0.61
1:Jw:62:ARG:HG2	3:XM:627:VAL:HG21	1.83	0.61
1:Aj:66:ASP:OD1	3:Ys:792:ARG:NH2	2.30	0.61
3:XD:645:GLY:HA2	1:Dq:62:ARG:NH2	2.16	0.61
1:Dn:13:GLU:HG3	1:Dn:47:THR:HB	1.83	0.61
1:FL:88:VAL:HG21	1:EL:25:ASP:HA	1.82	0.61
1:DJ:11:MET:HB2	1:DJ:79:HIS:CB	2.30	0.61
1:KI:25:ASP:HA	1:NI:88:VAL:HG21	1.81	0.61
1:Lm:72:GLY:HA2	1:Mm:77:ALA:HB2	1.81	0.61
1:GB:62:ARG:HG2	3:YA:785:VAL:HG21	1.83	0.61
1:HA:80:ILE:HD12	3:YD:848:ILE:CG2	2.31	0.61
1:KC:25:ASP:HA	1:NC:88:VAL:HG21	1.81	0.61
1:C7:18:VAL:HG22	1:H6:11:MET:HB3	1.83	0.61
1:CS:18:VAL:HG22	1:HR:11:MET:HB3	1.83	0.61
1:HG:80:ILE:HD12	3:YJ:848:ILE:CG2	2.31	0.61
1:CO:18:VAL:HG22	1:HN:11:MET:HB3	1.83	0.61
1:KL:25:ASP:HA	1:NL:88:VAL:HG21	1.81	0.61
1:OL:80:ILE:O	3:XL:716:PRO:HD2	2.00	0.61
2:PM:14:ASN:HD21	2:PN:76:ILE:CB	2.11	0.61
1:JW:82:ALA:HB3	1:Lp:30:ALA:O	2.00	0.61
1:Kb:25:ASP:HA	1:Nb:88:VAL:HG21	1.81	0.61
1:Oa:80:ILE:O	3:Xa:716:PRO:HD2	2.00	0.61
1:Fw:18:VAL:CA	1:Dw:11:MET:CE	2.76	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Il:68:CYS:SG	1:Il:75:LEU:HD13	2.41	0.61
1:Kn:25:ASP:HA	1:Nn:88:VAL:HG21	1.82	0.61
1:CA:25:ASP:HA	1:HE:88:VAL:HG21	1.83	0.61
1:CD:18:VAL:HG22	1:HC:11:MET:HB3	1.83	0.61
1:H2:62:ARG:HG2	3:Y5:848:ILE:HD11	1.81	0.61
1:I1:68:CYS:SG	1:I1:75:LEU:HD13	2.41	0.61
1:K3:25:ASP:HA	1:N3:88:VAL:HG21	1.81	0.61
1:E7:13:GLU:OE2	1:Dv:17:LEU:N	2.25	0.61
1:AR:66:ASP:OD1	3:YQ:792:ARG:NH2	2.27	0.61
2:PQ:13:THR:OG1	2:PR:78:ASP:OD2	2.18	0.61
1:AJ:43:GLY:O	3:YH:830:THR:HG22	2.00	0.61
1:IO:68:CYS:SG	1:IO:75:LEU:HD13	2.41	0.61
1:AW:69:GLU:C	3:YZ:841:PRO:HG3	2.19	0.61
1:LX:62:ARG:HH21	3:XX:644:VAL:HG22	1.63	0.61
1:NV:69:GLU:HG2	3:XV:685:MET:HE1	1.82	0.61
1:Cu:18:VAL:HG22	1:Ht:11:MET:HB3	1.82	0.61
1:Gu:42:GLY:C	1:Gu:44:GLY:N	2.58	0.61
1:Ov:88:VAL:HG21	1:Jv:25:ASP:CA	2.31	0.61
1:Ck:25:ASP:HA	1:Ho:88:VAL:HG21	1.82	0.61
1:Kl:88:VAL:HG21	1:Ol:25:ASP:HA	1.81	0.61
1:AD:43:GLY:O	3:YB:830:THR:HG22	2.00	0.61
1:CC:25:ASP:HA	1:HB:88:VAL:HG21	1.81	0.61
1:I8:68:CYS:SG	1:I8:75:LEU:HD13	2.41	0.61
2:P7:13:THR:OG1	2:P8:78:ASP:OD2	2.18	0.61
1:HQ:80:ILE:HD12	3:YT:848:ILE:CG2	2.31	0.61
1:IR:68:CYS:SG	1:IR:75:LEU:HD13	2.41	0.61
1:CI:25:ASP:HA	1:HH:88:VAL:HG21	1.81	0.61
1:GH:62:ARG:HG2	3:YG:785:VAL:HG21	1.83	0.61
1:KO:25:ASP:HA	1:NO:88:VAL:HG21	1.81	0.61
3:XL:616:ILE:HG21	1:Dl:80:ILE:CD1	2.31	0.61
1:Ie:68:CYS:SG	1:Ie:75:LEU:HD13	2.41	0.61
1:AV:66:ASP:OD1	3:YZ:792:ARG:NH2	2.29	0.61
1:HW:80:ILE:HD12	3:YZ:848:ILE:CG2	2.31	0.61
1:KW:25:ASP:HA	1:NW:88:VAL:HG21	1.81	0.61
1:Ew:58:ASN:HB2	3:Yw:707:ILE:HD13	1.83	0.61
1:Ap:66:ASP:OD1	3:Yj:792:ARG:NH2	2.29	0.61
1:J6:79:HIS:HD2	3:XN:628:THR:CG2	1.83	0.61
1:DC:35:LEU:CD2	1:Eq:91:ILE:HG21	2.30	0.60
1:A5:22:GLU:OE2	3:Y3:865:GLY:N	2.18	0.60
1:F4:29:LYS:HG3	1:D4:85:HIS:HD2	0.90	0.60
1:K1:25:ASP:HA	1:N1:88:VAL:HG21	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C6:25:ASP:HA	1:H0:88:VAL:HG21	1.82	0.60
1:G0:32:GLU:HB2	1:K0:7:ILE:HD11	1.83	0.60
1:I6:68:CYS:SG	1:I6:75:LEU:HD13	2.41	0.60
1:O6:80:ILE:O	3:X6:716:PRO:HD2	2.00	0.60
1:AS:43:GLY:O	3:YQ:830:THR:HG22	2.00	0.60
1:ES:58:ASN:HB2	3:YS:707:ILE:HD13	1.83	0.60
1:IT:68:CYS:SG	1:IT:75:LEU:HD13	2.41	0.60
1:JS:32:GLU:OE1	1:DS:7:ILE:CD1	2.48	0.60
1:AN:69:GLU:O	3:YL:841:PRO:CG	2.37	0.60
1:Ha:80:ILE:HD12	3:Yd:848:ILE:CG2	2.31	0.60
1:Hb:62:ARG:CA	3:YU:848:ILE:HD11	2.25	0.60
2:Pa:57:ALA:HB2	2:PU:68:PRO:O	2.01	0.60
1:Ev:87:GLU:OE1	1:D7:28:THR:HG23	2.01	0.60
1:Iw:68:CYS:SG	1:Iw:75:LEU:HD13	2.41	0.60
1:Ik:68:CYS:SG	1:Ik:75:LEU:HD13	2.41	0.60
1:Lk:30:ALA:O	1:Js:82:ALA:HB3	2.00	0.60
1:AC:69:GLU:O	3:YA:841:PRO:CG	2.37	0.60
1:KE:25:ASP:HA	1:NE:88:VAL:HG21	1.82	0.60
1:L5:66:ASP:CB	3:X5:636:GLN:NE2	2.64	0.60
1:L7:58:ASN:HD21	3:X7:644:VAL:CG1	2.10	0.60
1:L8:65:ALA:CA	3:X8:636:GLN:HE21	2.13	0.60
2:P7:14:ASN:HD21	2:P8:76:ILE:CB	2.11	0.60
1:HP:80:ILE:HD12	3:YS:848:ILE:CG2	2.31	0.60
1:Ce:25:ASP:HA	1:Hi:88:VAL:HG21	1.82	0.60
1:CY:18:VAL:HG22	1:HX:11:MET:HB3	1.83	0.60
1:EZ:91:ILE:HG21	1:Dd:35:LEU:CD2	2.29	0.60
1:Cd:18:VAL:HG22	1:Hc:11:MET:HB3	1.83	0.60
1:Ea:88:VAL:HG21	1:DS:25:ASP:HA	1.83	0.60
1:IU:68:CYS:SG	1:IU:75:LEU:HD13	2.41	0.60
2:Pb:13:THR:OG1	2:Pc:78:ASP:OD2	2.18	0.60
1:Iu:68:CYS:SG	1:Iu:75:LEU:HD13	2.41	0.60
1:Ao:66:ASP:OD1	3:Yn:792:ARG:NH2	2.30	0.60
1:Hk:62:ARG:CG	3:Yn:848:ILE:HD11	2.29	0.60
1:Cq:18:VAL:HG22	1:Hp:11:MET:HB3	1.83	0.60
1:Kj:25:ASP:HA	1:Nj:88:VAL:HG21	1.82	0.60
1:DH:79:HIS:HD2	3:Xa:617:SER:HB2	1.64	0.60
1:AE:43:GLY:O	3:YC:830:THR:HG22	2.02	0.60
1:DB:36:VAL:HG23	1:DB:49:LEU:C	2.27	0.60
1:JD:30:ALA:O	1:DD:82:ALA:HB3	2.02	0.60
1:H2:80:ILE:HD12	3:Y5:848:ILE:CG2	2.31	0.60
1:H4:62:ARG:CA	3:Y2:848:ILE:HD11	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F0:79:HIS:HA	3:X0:725:THR:O	2.02	0.60
1:AK:43:GLY:O	3:YI:830:THR:HG22	2.02	0.60
1:KK:25:ASP:HA	1:NK:88:VAL:HG21	1.82	0.60
1:AN:66:ASP:OD1	3:YM:792:ARG:NH2	2.27	0.60
1:AZ:43:GLY:O	3:YX:830:THR:HG22	2.02	0.60
1:HY:62:ARG:HG2	3:YW:848:ILE:HD13	1.61	0.60
1:FU:28:THR:HG21	1:DU:87:GLU:HB2	1.83	0.60
1:Ia:68:CYS:SG	1:Ia:75:LEU:HD13	2.41	0.60
1:La:58:ASN:ND2	3:Xa:644:VAL:CG1	2.63	0.60
1:Ax:43:GLY:O	3:Yv:830:THR:HG22	2.02	0.60
1:Mt:30:ALA:O	1:Ms:82:ALA:HB3	2.01	0.60
1:Iq:68:CYS:SG	1:Iq:75:LEU:HD13	2.40	0.60
1:Jq:62:ARG:NH2	3:XD:624:SER:HB2	2.15	0.60
1:J6:79:HIS:HA	3:XN:628:THR:HG22	1.81	0.60
1:FY:35:LEU:CD2	1:DY:91:ILE:CG2	2.78	0.60
1:HD:62:ARG:CA	3:YB:848:ILE:HD11	2.27	0.60
1:MA:30:ALA:O	1:M9:82:ALA:HB3	2.01	0.60
1:F4:72:GLY:HA2	1:D4:77:ALA:CB	2.30	0.60
1:H1:80:ILE:HD12	3:Y4:848:ILE:CG2	2.31	0.60
1:M2:31:ALA:O	1:Mg:83:ARG:HD2	2.02	0.60
1:O3:77:ALA:HB2	1:J3:72:GLY:HA2	1.84	0.60
1:DT:25:ASP:HA	1:EG:88:VAL:HG21	1.82	0.60
1:JS:32:GLU:OE1	1:DS:7:ILE:HD11	2.01	0.60
3:XT:628:THR:HG1	1:Ja:79:HIS:HB2	1.66	0.60
3:YI:835:ASN:HA	3:YI:838:VAL:HG13	1.84	0.60
1:Ai:66:ASP:OD1	3:Yh:792:ARG:NH2	2.30	0.60
1:He:62:ARG:CG	3:Yh:848:ILE:HD11	2.29	0.60
1:AY:43:GLY:O	3:YW:830:THR:HG22	2.00	0.60
1:HZ:62:ARG:HG2	3:YX:848:ILE:HD11	1.77	0.60
1:LZ:30:ALA:O	1:JI:82:ALA:HB3	2.02	0.60
1:Jb:62:ARG:HH21	3:X4:624:SER:HB2	1.66	0.60
3:Yx:835:ASN:HA	3:Yx:838:VAL:HG13	1.84	0.60
1:Im:68:CYS:SG	1:Im:75:LEU:HD13	2.40	0.60
1:DD:11:MET:HE1	1:DD:81:ILE:HG13	1.83	0.60
1:Nm:72:GLY:CA	1:Lm:77:ALA:HB2	2.24	0.60
2:PD:5:GLN:HE21	2:PD:47:GLY:HA2	1.66	0.60
1:D2:28:THR:O	1:Lg:83:ARG:NH1	2.33	0.60
1:D3:58:ASN:ND2	3:Xc:621:VAL:HG21	2.16	0.60
1:D3:79:HIS:CD2	3:Xc:617:SER:C	2.80	0.60
1:I3:68:CYS:SG	1:I3:75:LEU:HD13	2.40	0.60
3:YT:835:ASN:HA	3:YT:838:VAL:HG13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HJ:62:ARG:CA	3:YH:848:ILE:HD11	2.27	0.60
2:PH:13:THR:OG1	2:PI:78:ASP:OD2	2.18	0.60
3:YG:835:ASN:HA	3:YG:838:VAL:HG13	1.84	0.60
2:PL:57:ALA:HB2	2:PF:68:PRO:O	2.01	0.60
3:YL:835:ASN:HA	3:YL:838:VAL:HG13	1.84	0.60
1:He:80:ILE:HD12	3:Yh:848:ILE:CG2	2.31	0.60
1:Ig:68:CYS:SG	1:Ig:75:LEU:HD13	2.41	0.60
1:IW:68:CYS:SG	1:IW:75:LEU:HD13	2.41	0.60
1:KX:25:ASP:HA	1:NX:88:VAL:HG21	1.81	0.60
3:YY:835:ASN:HA	3:YY:838:VAL:HG13	1.84	0.60
1:Ca:25:ASP:HA	1:HU:88:VAL:HG21	1.82	0.60
1:FU:79:HIS:HA	3:XU:725:THR:O	2.02	0.60
1:Ic:68:CYS:SG	1:Ic:75:LEU:HD13	2.41	0.60
3:Yb:835:ASN:HA	3:Yb:838:VAL:HG13	1.84	0.60
1:Ct:25:ASP:HA	1:Hx:88:VAL:HG21	1.82	0.60
1:Dt:35:LEU:HD21	1:Er:91:ILE:HG21	1.84	0.60
1:Ix:68:CYS:SG	1:Ix:75:LEU:HD13	2.41	0.60
3:Yw:835:ASN:HA	3:Yw:838:VAL:HG13	1.84	0.60
1:Hk:80:ILE:HD12	3:Yn:848:ILE:CG2	2.31	0.60
1:In:68:CYS:SG	1:In:75:LEU:HD13	2.41	0.60
1:Gj:32:GLU:HB2	1:Kj:7:ILE:HD11	1.83	0.60
1:Kp:25:ASP:HA	1:Np:88:VAL:HG21	1.82	0.60
1:D4:12:ILE:HD12	1:D4:27:MET:HE3	1.83	0.60
1:Dw:58:ASN:HD22	1:Dw:80:ILE:HD12	1.66	0.60
2:PB:13:THR:OG1	2:PC:78:ASP:OD2	2.18	0.60
3:YA:835:ASN:HA	3:YA:838:VAL:HG13	1.84	0.60
3:YC:835:ASN:HA	3:YC:838:VAL:HG13	1.84	0.60
1:A5:69:GLU:C	3:Y3:841:PRO:HG3	2.24	0.60
1:D0:79:HIS:CD2	3:XR:617:SER:O	2.54	0.60
3:Y8:835:ASN:HA	3:Y8:838:VAL:HG13	1.84	0.60
1:CQ:18:VAL:HG22	1:HP:11:MET:HB3	1.83	0.60
1:HM:80:ILE:HD12	3:YF:848:ILE:CG2	2.31	0.60
1:Ah:43:GLY:O	3:Yf:830:THR:HG22	2.00	0.60
1:Eh:58:ASN:HB2	3:Yh:707:ILE:HD13	1.83	0.60
1:Lf:83:ARG:NH1	1:Dc:28:THR:O	2.32	0.60
3:Ye:835:ASN:HA	3:Ye:838:VAL:HG13	1.84	0.60
1:KZ:25:ASP:HA	1:NZ:88:VAL:HG21	1.82	0.60
1:Cb:18:VAL:HG22	1:Ha:11:MET:HB3	1.83	0.60
3:Yc:835:ASN:HA	3:Yc:838:VAL:HG13	1.84	0.60
1:Hu:80:ILE:HD12	3:Yx:848:ILE:CG2	2.31	0.60
2:Pu:70:ASP:HB3	2:Pv:54:GLY:HA3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pw:5:GLN:HE21	2:Pw:47:GLY:HA2	1.66	0.60
1:Hl:80:ILE:HD12	3:Yo:848:ILE:CG2	2.31	0.60
3:Ym:703:THR:CA	1:Em:79:HIS:CE1	2.65	0.60
1:Ij:68:CYS:SG	1:Ij:75:LEU:HD13	2.41	0.60
1:Kr:25:ASP:HA	1:Nr:88:VAL:HG21	1.81	0.60
1:Lr:30:ALA:O	1:JC:82:ALA:CB	2.48	0.60
2:Pp:57:ALA:HB2	2:Pj:68:PRO:O	2.01	0.60
3:Yp:835:ASN:HA	3:Yp:838:VAL:HG13	1.84	0.60
3:Yq:835:ASN:HA	3:Yq:838:VAL:HG13	1.84	0.60
3:Y3:835:ASN:HA	3:Y3:838:VAL:HG13	1.84	0.60
1:I2:68:CYS:SG	1:I2:75:LEU:HD13	2.41	0.60
1:A0:22:GLU:OE2	3:Y8:865:GLY:N	2.18	0.60
1:A0:43:GLY:O	3:Y8:830:THR:HG22	2.02	0.60
1:AT:43:GLY:O	3:YR:830:THR:HG22	2.02	0.60
1:AT:66:ASP:OD1	3:YS:792:ARG:NH2	2.30	0.60
1:CP:25:ASP:HA	1:HT:88:VAL:HG21	1.82	0.60
1:GQ:42:GLY:C	1:GQ:44:GLY:N	2.58	0.60
1:AI:69:GLU:O	3:YG:841:PRO:CG	2.37	0.60
1:IH:68:CYS:SG	1:IH:75:LEU:HD13	2.41	0.60
1:IF:68:CYS:SG	1:IF:75:LEU:HD13	2.41	0.60
1:Hf:80:ILE:HD12	3:Yi:848:ILE:CG2	2.31	0.60
1:Ih:68:CYS:SG	1:Ih:75:LEU:HD13	2.41	0.60
1:IY:68:CYS:SG	1:IY:75:LEU:HD13	2.41	0.60
3:YX:835:ASN:HA	3:YX:838:VAL:HG13	1.84	0.60
1:Ha:62:ARG:CG	3:Yd:848:ILE:HD11	2.29	0.60
1:Cw:18:VAL:HG22	1:Hv:11:MET:HB3	1.83	0.60
1:Iv:68:CYS:SG	1:Iv:75:LEU:HD13	2.41	0.60
1:Ov:85:HIS:CG	1:Jv:28:THR:CG2	2.84	0.60
1:An:43:GLY:O	3:Yl:830:THR:HG22	2.00	0.60
1:Eq:59:ALA:HA	3:Yq:728:PRO:HB3	1.84	0.60
1:EF:15:ARG:HB2	1:EF:73:ASP:HB3	1.83	0.60
1:EC:88:VAL:CG2	1:Dq:25:ASP:HA	2.32	0.60
1:IB:68:CYS:SG	1:IB:75:LEU:HD13	2.41	0.60
1:IE:68:CYS:SG	1:IE:75:LEU:HD13	2.41	0.60
1:JB:82:ALA:HB3	1:Lv:30:ALA:O	2.01	0.60
1:C9:18:VAL:HG22	1:H8:11:MET:HB3	1.83	0.60
3:YP:835:ASN:HA	3:YP:838:VAL:HG13	1.84	0.60
1:AF:43:GLY:O	3:YN:830:THR:HG22	2.02	0.60
1:IL:68:CYS:SG	1:IL:75:LEU:HD13	2.41	0.60
1:HV:80:ILE:HD12	3:YY:848:ILE:CG2	2.31	0.60
1:MZ:83:ARG:HD2	1:MI:31:ALA:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:43:GLY:O	3:Yc:830:THR:HG22	2.02	0.60
1:Ac:69:GLU:O	3:Ya:841:PRO:CG	2.37	0.60
1:La:58:ASN:ND2	3:Xa:644:VAL:HG13	2.16	0.60
3:Ya:835:ASN:HA	3:Ya:838:VAL:HG13	1.84	0.60
3:Yv:835:ASN:HA	3:Yv:838:VAL:HG13	1.83	0.60
1:Io:68:CYS:SG	1:Io:75:LEU:HD13	2.41	0.60
3:Yk:835:ASN:HA	3:Yk:838:VAL:HG13	1.84	0.60
1:LM:80:ILE:H	3:XM:640:GLY:HA3	1.67	0.60
1:Dl:25:ASP:HA	1:EF:88:VAL:HG21	1.84	0.60
1:AD:66:ASP:OD1	3:YC:792:ARG:NH2	2.33	0.60
3:Y9:835:ASN:HA	3:Y9:838:VAL:HG13	1.84	0.60
1:ES:77:ALA:HB2	1:Da:72:GLY:HA2	1.84	0.60
1:AJ:66:ASP:OD1	3:YI:792:ARG:NH2	2.33	0.60
1:MJ:30:ALA:O	1:Mn:82:ALA:HB3	2.02	0.60
1:JM:62:ARG:NH2	3:X7:624:SER:CB	2.65	0.60
1:KN:7:ILE:HD12	1:KN:83:ARG:HG3	1.84	0.60
1:Ag:69:GLU:O	3:Ye:841:PRO:CG	2.37	0.60
1:Ii:68:CYS:SG	1:Ii:75:LEU:HD13	2.41	0.60
1:Me:30:ALA:O	1:Md:82:ALA:HB3	2.01	0.60
1:IX:68:CYS:SG	1:IX:75:LEU:HD13	2.40	0.60
3:Yt:835:ASN:HA	3:Yt:838:VAL:HG13	1.84	0.60
1:Ep:13:GLU:HB2	1:Dh:18:VAL:HG23	1.83	0.60
1:Ip:68:CYS:SG	1:Ip:75:LEU:HD13	2.41	0.60
1:Em:88:VAL:HG21	1:DJ:25:ASP:HA	1.84	0.60
1:C4:18:VAL:HG22	1:H3:11:MET:HB3	1.83	0.60
1:A6:69:GLU:O	3:Y9:841:PRO:CG	2.38	0.60
1:ER:91:ILE:CG2	1:D4:35:LEU:HD23	2.31	0.60
1:KS:7:ILE:HD12	1:KS:83:ARG:HG3	1.84	0.60
1:MT:83:ARG:HD2	1:Ma:31:ALA:O	2.01	0.60
1:AK:66:ASP:OD1	3:YJ:792:ARG:NH2	2.30	0.60
1:HI:62:ARG:HG2	3:YG:848:ILE:HD11	1.77	0.60
1:IK:68:CYS:SG	1:IK:75:LEU:HD13	2.41	0.60
1:AL:66:ASP:OD1	3:YF:792:ARG:NH2	2.29	0.60
1:CM:18:VAL:HG22	1:HL:11:MET:HB3	1.83	0.60
1:Ai:43:GLY:O	3:Yg:830:THR:HG22	2.02	0.60
2:Ph:5:GLN:HE21	2:Ph:47:GLY:HA2	1.66	0.60
1:AV:69:GLU:O	3:YY:841:PRO:CG	2.38	0.60
1:AZ:22:GLU:OE2	3:YX:865:GLY:N	2.18	0.60
1:HZ:80:ILE:HD12	3:YX:848:ILE:CG2	2.32	0.60
1:Gu:62:ARG:HG2	3:Yt:785:VAL:HG21	1.83	0.60
1:Am:69:GLU:O	3:Yk:841:PRO:CG	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aj:43:GLY:O	3:Yr:830:THR:HG22	2.02	0.60
1:Fj:79:HIS:HA	3:Xj:725:THR:O	2.01	0.60
1:Hj:80:ILE:HD12	3:Yr:848:ILE:CG2	2.32	0.60
1:Hq:80:ILE:HD12	3:Yj:848:ILE:CG2	2.31	0.60
1:DA:97:GLN:HA	1:E8:90:ASN:CB	2.26	0.59
1:K5:7:ILE:HD12	1:K5:83:ARG:HG3	1.84	0.59
1:A9:66:ASP:OD1	3:Y8:792:ARG:NH2	2.33	0.59
1:K7:7:ILE:HD12	1:K7:83:ARG:HG3	1.84	0.59
2:P6:57:ALA:HB2	2:P0:68:PRO:O	2.01	0.59
1:FS:71:VAL:CG1	1:DS:79:HIS:HD2	2.14	0.59
1:AF:69:GLU:C	3:YN:841:PRO:HG3	2.24	0.59
1:GF:32:GLU:HB2	1:KF:7:ILE:HD11	1.83	0.59
1:Ke:7:ILE:HD12	1:Ke:83:ARG:HG3	1.84	0.59
1:GW:62:ARG:HG2	3:YV:785:VAL:HG21	1.83	0.59
1:KW:7:ILE:HD12	1:KW:83:ARG:HG3	1.84	0.59
1:KZ:7:ILE:HD12	1:KZ:83:ARG:HG3	1.84	0.59
1:Hb:80:ILE:HD12	3:YU:848:ILE:CG2	2.31	0.59
1:Id:68:CYS:SG	1:Id:75:LEU:HD13	2.41	0.59
3:Yd:835:ASN:HA	3:Yd:838:VAL:HG13	1.84	0.59
1:Ht:80:ILE:HD12	3:Yw:848:ILE:CG2	2.31	0.59
1:Hx:80:ILE:HD12	3:Yv:848:ILE:CG2	2.32	0.59
1:Kj:7:ILE:HD12	1:Kj:83:ARG:HG3	1.84	0.59
1:Kr:7:ILE:HD12	1:Kr:83:ARG:HG3	1.84	0.59
1:Fh:35:LEU:HD21	1:Dh:91:ILE:CG2	2.32	0.59
1:LI:62:ARG:NH1	3:XI:634:GLU:O	2.35	0.59
1:AE:66:ASP:OD1	3:YD:792:ARG:NH2	2.30	0.59
1:BE:83:ARG:NH1	1:ED:28:THR:O	2.35	0.59
1:KB:7:ILE:HD12	1:KB:83:ARG:HG3	1.84	0.59
2:P6:59:ARG:HH22	2:P7:60:GLU:HB2	1.68	0.59
1:HS:62:ARG:HG2	3:YQ:848:ILE:HD11	1.83	0.59
1:BK:83:ARG:NH1	1:EJ:28:THR:O	2.35	0.59
1:HF:80:ILE:HD12	3:YN:848:ILE:CG2	2.32	0.59
1:Jh:82:ALA:HB3	1:Lq:30:ALA:O	2.02	0.59
1:Kf:7:ILE:HD12	1:Kf:83:ARG:HG3	1.84	0.59
1:Kh:7:ILE:HD12	1:Kh:83:ARG:HG3	1.84	0.59
2:Pf:70:ASP:HB3	2:Pg:54:GLY:HA3	1.84	0.59
1:DW:58:ASN:HB3	3:Xp:643:TYR:CZ	2.36	0.59
1:It:68:CYS:SG	1:It:75:LEU:HD13	2.41	0.59
1:Kw:7:ILE:HD12	1:Kw:83:ARG:HG3	1.84	0.59
1:Jn:62:ARG:HH21	3:XY:624:SER:CB	2.13	0.59
1:Kk:7:ILE:HD12	1:Kk:83:ARG:HG3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hp:80:ILE:HD12	3:Ys:848:ILE:CG2	2.31	0.59
1:DS:11:MET:HG2	1:DS:49:LEU:HD22	1.83	0.59
1:KA:7:ILE:HD12	1:KA:83:ARG:HG3	1.85	0.59
1:LD:30:ALA:O	1:Jq:82:ALA:HB3	2.02	0.59
3:XC:624:SER:H	1:Ju:62:ARG:CZ	2.14	0.59
1:DP:35:LEU:HD21	1:EN:91:ILE:HG21	1.84	0.59
3:XT:627:VAL:CG1	1:Ja:80:ILE:HD11	2.32	0.59
3:XL:725:THR:O	1:FL:79:HIS:HA	2.01	0.59
1:Hi:80:ILE:HD12	3:Yg:848:ILE:CG2	2.32	0.59
1:Au:66:ASP:OD1	3:Yt:792:ARG:NH2	2.33	0.59
1:Ao:43:GLY:O	3:Ym:830:THR:HG22	2.02	0.59
1:Ho:80:ILE:HD12	3:Ym:848:ILE:CG2	2.32	0.59
1:ED:58:ASN:HB2	3:YD:707:ILE:HD13	1.83	0.59
1:H5:80:ILE:HD12	3:Y3:848:ILE:CG2	2.32	0.59
3:Y2:835:ASN:HA	3:Y2:838:VAL:HG13	1.84	0.59
1:H0:80:ILE:HD12	3:Y8:848:ILE:CG2	2.32	0.59
1:L8:30:ALA:O	1:Jv:82:ALA:CB	2.47	0.59
1:MP:30:ALA:O	1:MO:82:ALA:HB3	2.01	0.59
2:PS:5:GLN:HE21	2:PS:47:GLY:HA2	1.66	0.59
1:KG:7:ILE:HD12	1:KG:83:ARG:HG3	1.85	0.59
1:KH:7:ILE:HD12	1:KH:83:ARG:HG3	1.84	0.59
3:YF:835:ASN:HA	3:YF:838:VAL:HG13	1.84	0.59
3:Xi:627:VAL:HG11	1:Jp:80:ILE:HD11	1.79	0.59
1:Kb:7:ILE:HD12	1:Kb:83:ARG:HG3	1.84	0.59
2:Pa:59:ARG:HH22	2:Pb:60:GLU:HB2	1.67	0.59
1:Kl:7:ILE:HD12	1:Kl:83:ARG:HG3	1.84	0.59
1:Br:47:THR:HG23	1:Iq:18:VAL:HG23	1.85	0.59
1:J3:11:MET:HE3	1:J3:79:HIS:HB3	1.84	0.59
1:EC:85:HIS:CD2	1:Dq:29:LYS:HA	2.37	0.59
1:HB:80:ILE:HD12	3:YE:848:ILE:CG2	2.31	0.59
1:D2:79:HIS:CG	3:Xg:617:SER:O	2.55	0.59
1:K2:7:ILE:HD12	1:K2:83:ARG:HG3	1.84	0.59
1:H7:80:ILE:HD12	3:Y0:848:ILE:CG2	2.31	0.59
3:XT:637:LEU:HA	3:XT:649:THR:HG23	1.85	0.59
1:HH:80:ILE:HD12	3:YK:848:ILE:CG2	2.31	0.59
1:JJ:30:ALA:O	1:DJ:82:ALA:HB3	2.01	0.59
1:KO:7:ILE:HD12	1:KO:83:ARG:HG3	1.85	0.59
3:Yh:835:ASN:HA	3:Yh:838:VAL:HG13	1.84	0.59
1:KY:7:ILE:HD12	1:KY:83:ARG:HG3	1.84	0.59
1:Ev:84:VAL:CB	1:D7:25:ASP:OD2	2.50	0.59
1:Kn:7:ILE:HD12	1:Kn:83:ARG:HG3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Yl:835:ASN:HA	3:Yl:838:VAL:HG13	1.84	0.59
1:JF:82:ALA:HB3	1:Lm:30:ALA:O	2.01	0.59
1:EC:91:ILE:HG21	1:Dq:35:LEU:CD2	2.32	0.59
1:D2:35:LEU:CD2	1:Ef:91:ILE:HG21	2.32	0.59
1:F4:35:LEU:HD23	1:D4:91:ILE:CG2	2.31	0.59
1:K1:7:ILE:HD12	1:K1:83:ARG:HG3	1.85	0.59
1:L5:80:ILE:HD11	3:X5:638:ILE:HG21	1.81	0.59
3:Y5:835:ASN:HA	3:Y5:838:VAL:HG13	1.84	0.59
1:M6:72:GLY:CA	1:J6:77:ALA:HB2	2.24	0.59
1:KR:7:ILE:HD12	1:KR:83:ARG:HG3	1.84	0.59
2:PJ:13:THR:OG1	2:PK:78:ASP:OD2	2.21	0.59
1:KF:7:ILE:HD12	1:KF:83:ARG:HG3	1.84	0.59
3:YN:835:ASN:HA	3:YN:838:VAL:HG13	1.84	0.59
1:Eb:59:ALA:HA	3:Yb:728:PRO:HB3	1.84	0.59
1:Kx:7:ILE:HD12	1:Kx:83:ARG:HG3	1.84	0.59
1:Lu:15:ARG:HG2	3:Xu:691:ILE:HG23	1.85	0.59
1:Lv:15:ARG:HG2	3:Xv:691:ILE:HG23	1.85	0.59
2:Pp:59:ARG:HH22	2:Pq:60:GLU:HB2	1.67	0.59
1:Km:7:ILE:HD12	1:Km:83:ARG:HG3	1.85	0.59
1:HC:62:ARG:HG2	3:YA:848:ILE:HD11	1.78	0.59
1:HE:80:ILE:HD12	3:YC:848:ILE:CG2	2.32	0.59
1:LD:15:ARG:HG2	3:XD:691:ILE:HG23	1.85	0.59
3:YD:835:ASN:HA	3:YD:838:VAL:HG13	1.84	0.59
3:YE:835:ASN:HA	3:YE:838:VAL:HG13	1.84	0.59
1:D3:80:ILE:CD1	3:Xc:616:ILE:CG2	2.79	0.59
1:L5:66:ASP:HB2	3:X5:636:GLN:HE22	1.66	0.59
1:K6:7:ILE:HD12	1:K6:83:ARG:HG3	1.84	0.59
1:CH:18:VAL:HG22	1:HG:11:MET:HB3	1.83	0.59
1:HK:80:ILE:HD12	3:YI:848:ILE:CG2	2.32	0.59
3:YJ:835:ASN:HA	3:YJ:838:VAL:HG13	1.84	0.59
1:HL:80:ILE:HD12	3:YO:848:ILE:CG2	2.31	0.59
1:Eg:92:LEU:CD2	1:DD:21:ILE:HD13	2.33	0.59
1:Kg:7:ILE:HD12	1:Kg:83:ARG:HG3	1.84	0.59
1:Li:15:ARG:HG2	3:Xi:691:ILE:HG23	1.85	0.59
3:Yf:835:ASN:HA	3:Yf:838:VAL:HG13	1.84	0.59
1:HU:62:ARG:CA	3:Yc:848:ILE:HD11	2.33	0.59
1:Kc:7:ILE:HD12	1:Kc:83:ARG:HG3	1.84	0.59
1:Im:62:ARG:HG3	3:Xm:730:PHE:HB3	1.85	0.59
3:Yn:835:ASN:HA	3:Yn:838:VAL:HG13	1.84	0.59
1:Kq:7:ILE:HD12	1:Kq:83:ARG:HG3	1.84	0.59
1:D7:11:MET:HE1	1:D7:81:ILE:HG13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LN:62:ARG:NE	3:XN:644:VAL:HG13	2.14	0.59
1:EC:85:HIS:CD2	1:Dq:29:LYS:HG2	2.37	0.59
3:XC:617:SER:O	1:Du:79:HIS:C	2.46	0.59
1:G2:42:GLY:C	1:G2:44:GLY:N	2.58	0.59
1:I3:62:ARG:HG3	3:X3:730:PHE:HB3	1.85	0.59
1:K3:7:ILE:HD12	1:K3:83:ARG:HG3	1.84	0.59
1:A7:66:ASP:OD1	3:Y6:792:ARG:NH2	2.33	0.59
1:H6:80:ILE:HD12	3:Y9:848:ILE:CG2	2.31	0.59
1:HT:80:ILE:HD12	3:YR:848:ILE:CG2	2.32	0.59
2:PL:59:ARG:HH22	2:PM:60:GLU:HB2	1.68	0.59
1:Ad:66:ASP:OD1	3:Yc:792:ARG:NH2	2.33	0.59
1:HU:80:ILE:HD12	3:Yc:848:ILE:CG2	2.32	0.59
1:Jn:62:ARG:NE	3:XY:624:SER:CB	2.60	0.59
3:Ym:835:ASN:HA	3:Ym:838:VAL:HG13	1.84	0.59
1:CB:18:VAL:HG22	1:HA:11:MET:HB3	1.83	0.59
1:KE:7:ILE:HD12	1:KE:83:ARG:HG3	1.84	0.59
2:PB:70:ASP:HB3	2:PC:54:GLY:HA3	1.84	0.59
3:YK:835:ASN:HA	3:YK:838:VAL:HG13	1.84	0.59
1:BN:47:THR:HG23	1:IM:18:VAL:HG23	1.85	0.59
3:Yg:835:ASN:HA	3:Yg:838:VAL:HG13	1.84	0.59
1:AZ:66:ASP:OD1	3:YY:792:ARG:NH2	2.30	0.59
1:EX:88:VAL:HG21	1:Dn:25:ASP:HA	1.84	0.59
1:KV:7:ILE:HD12	1:KV:83:ARG:HG3	1.84	0.59
1:Ks:7:ILE:HD12	1:Ks:83:ARG:HG3	1.85	0.59
1:Dl:42:GLY:C	1:Dl:44:GLY:H	2.11	0.59
1:LE:15:ARG:HG2	3:XE:691:ILE:HG23	1.85	0.59
3:Y1:835:ASN:HA	3:Y1:838:VAL:HG13	1.84	0.59
1:K9:7:ILE:HD12	1:K9:83:ARG:HG3	1.85	0.59
1:KP:7:ILE:HD12	1:KP:83:ARG:HG3	1.85	0.59
1:LT:15:ARG:HG2	3:XT:691:ILE:HG23	1.85	0.59
1:KK:7:ILE:HD12	1:KK:83:ARG:HG3	1.85	0.59
1:KL:7:ILE:HD12	1:KL:83:ARG:HG3	1.85	0.59
3:YO:835:ASN:HA	3:YO:838:VAL:HG13	1.84	0.59
1:IX:62:ARG:HG3	3:XX:730:PHE:HB3	1.85	0.59
1:Lx:15:ARG:HG2	3:Xx:691:ILE:HG23	1.85	0.59
2:Pn:13:THR:OG1	2:Po:78:ASP:OD2	2.21	0.59
1:LN:62:ARG:CZ	3:XN:638:ILE:HG13	2.32	0.59
1:LN:80:ILE:CD1	3:XN:638:ILE:HG21	2.31	0.59
1:JB:7:ILE:HG12	1:Lv:32:GLU:OE1	2.02	0.58
1:A5:43:GLY:O	3:Y3:830:THR:HG22	2.02	0.58
1:B3:47:THR:HG23	1:I2:18:VAL:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P9:13:THR:OG1	2:P0:78:ASP:OD2	2.21	0.58
1:AS:66:ASP:OD1	3:YR:792:ARG:NH2	2.33	0.58
1:JS:82:ALA:HB3	1:Lb:30:ALA:O	2.03	0.58
1:LS:15:ARG:HG2	3:XS:691:ILE:HG23	1.85	0.58
1:EM:59:ALA:HA	3:YM:728:PRO:HB3	1.84	0.58
3:YM:835:ASN:HA	3:YM:838:VAL:HG13	1.84	0.58
1:De:35:LEU:HD21	1:Ec:91:ILE:HG21	1.84	0.58
1:Lf:15:ARG:HG2	3:Xf:691:ILE:HG23	1.85	0.58
1:CZ:25:ASP:HA	1:HY:88:VAL:HG21	1.85	0.58
1:EY:91:ILE:HG21	1:DI:35:LEU:HD21	1.85	0.58
1:Ku:7:ILE:HD12	1:Ku:83:ARG:HG3	1.84	0.58
1:Ov:85:HIS:CE1	1:Jv:28:THR:CG2	2.86	0.58
1:Bo:83:ARG:NH1	1:En:28:THR:O	2.35	0.58
1:Bp:91:ILE:HD13	1:Ij:35:LEU:HD21	1.85	0.58
3:XD:645:GLY:HA2	1:Dq:62:ARG:HH21	1.68	0.58
1:DS:7:ILE:HD12	1:DS:83:ARG:HG3	1.85	0.58
3:Xq:643:TYR:OH	1:Dh:55:GLY:CA	2.50	0.58
1:JU:62:ARG:HG2	3:XI:627:VAL:HG21	1.83	0.58
1:Dl:18:VAL:HG22	1:EF:11:MET:CB	2.32	0.58
1:AE:22:GLU:OE2	3:YC:865:GLY:N	2.18	0.58
1:ER:84:VAL:HA	1:D4:25:ASP:OD2	2.03	0.58
2:PQ:70:ASP:HB3	2:PR:54:GLY:HA3	1.84	0.58
1:Jh:7:ILE:HG12	1:Lq:32:GLU:OE1	2.03	0.58
3:YW:835:ASN:HA	3:YW:838:VAL:HG13	1.84	0.58
1:BU:83:ARG:NH1	1:Ed:28:THR:O	2.35	0.58
1:Cx:25:ASP:HA	1:Hw:88:VAL:HG21	1.85	0.58
1:Nn:32:GLU:OE1	1:Em:83:ARG:CZ	2.51	0.58
1:Ep:85:HIS:CG	1:Dh:28:THR:CG2	2.86	0.58
1:FY:18:VAL:HG23	1:DY:13:GLU:HB2	1.85	0.58
1:Dq:33:VAL:HG13	1:Dq:56:ALA:HB1	1.85	0.58
1:DA:35:LEU:HD21	1:E8:91:ILE:HG21	1.84	0.58
1:LB:15:ARG:HG2	3:XB:691:ILE:HG23	1.85	0.58
3:XC:617:SER:O	1:Du:80:ILE:N	2.36	0.58
3:XE:628:THR:CG2	1:Jg:79:HIS:HD2	2.15	0.58
3:Y4:835:ASN:HA	3:Y4:838:VAL:HG13	1.84	0.58
1:E7:59:ALA:HA	3:Y7:728:PRO:HB3	1.84	0.58
1:K8:7:ILE:HD12	1:K8:83:ARG:HG3	1.84	0.58
3:Y0:835:ASN:HA	3:Y0:838:VAL:HG13	1.84	0.58
1:BI:47:THR:HG23	1:IH:18:VAL:HG23	1.85	0.58
1:CF:25:ASP:HA	1:HO:88:VAL:HG21	1.85	0.58
1:GF:41:VAL:HB	1:GF:45:TYR:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PO:13:THR:OG1	2:PF:78:ASP:OD2	2.21	0.58
3:XF:725:THR:O	1:FF:79:HIS:HA	2.03	0.58
1:Af:66:ASP:OD1	3:Ye:792:ARG:NH2	2.33	0.58
1:Ki:7:ILE:HD12	1:Ki:83:ARG:HG3	1.84	0.58
1:KX:7:ILE:HD12	1:KX:83:ARG:HG3	1.84	0.58
2:PV:76:ILE:CD1	2:PZ:14:ASN:ND2	2.67	0.58
3:YZ:835:ASN:HA	3:YZ:838:VAL:HG13	1.84	0.58
1:Bc:47:THR:HG23	1:Ib:18:VAL:HG23	1.85	0.58
1:Ko:7:ILE:HD12	1:Ko:83:ARG:HG3	1.84	0.58
3:Yo:835:ASN:HA	3:Yo:838:VAL:HG13	1.84	0.58
3:Yj:835:ASN:HA	3:Yj:838:VAL:HG13	1.84	0.58
1:DY:24:ALA:O	1:DY:28:THR:HG22	2.04	0.58
1:EC:85:HIS:ND1	1:Dq:28:THR:HG22	2.18	0.58
1:FD:28:THR:CB	1:DD:85:HIS:ND1	2.61	0.58
1:KD:7:ILE:HD12	1:KD:83:ARG:HG3	1.84	0.58
2:PA:76:ILE:CD1	2:PE:14:ASN:ND2	2.67	0.58
3:XC:618:GLY:HA3	1:Du:80:ILE:H	1.69	0.58
3:YB:835:ASN:HA	3:YB:838:VAL:HG13	1.84	0.58
1:A3:69:GLU:O	3:Y1:841:PRO:CG	2.37	0.58
1:D2:28:THR:HG21	1:Ef:87:GLU:OE1	2.02	0.58
1:B0:83:ARG:NH1	1:E9:28:THR:O	2.35	0.58
1:HS:62:ARG:HG3	3:YQ:848:ILE:CD1	2.24	0.58
1:KT:7:ILE:HD12	1:KT:83:ARG:HG3	1.84	0.58
1:LQ:15:ARG:HG2	3:XQ:691:ILE:HG23	1.85	0.58
3:YS:835:ASN:HA	3:YS:838:VAL:HG13	1.84	0.58
2:PG:76:ILE:CD1	2:PK:14:ASN:ND2	2.66	0.58
1:HN:62:ARG:HG2	3:YL:848:ILE:HD11	1.78	0.58
2:PL:76:ILE:CD1	2:PF:14:ASN:ND2	2.67	0.58
1:Bi:83:ARG:NH1	1:Eh:28:THR:O	2.35	0.58
3:Yi:835:ASN:HA	3:Yi:838:VAL:HG13	1.84	0.58
1:CU:25:ASP:HA	1:Hd:88:VAL:HG21	1.85	0.58
1:Bk:66:ASP:OD2	3:Yo:719:LEU:HB2	2.03	0.58
1:Bj:83:ARG:NH1	1:Es:28:THR:O	2.35	0.58
1:Hs:80:ILE:CD1	3:Yq:848:ILE:HG21	2.34	0.58
1:D7:34:ARG:HG2	1:D7:51:ARG:O	2.04	0.58
1:Em:13:GLU:HB3	1:Em:76:VAL:HB	1.86	0.58
1:BC:47:THR:HG23	1:IB:18:VAL:HG23	1.85	0.58
1:A6:66:ASP:OD1	3:Y0:792:ARG:NH2	2.29	0.58
1:H9:80:ILE:CD1	3:Y7:848:ILE:HG21	2.34	0.58
1:LR:15:ARG:HG2	3:XR:691:ILE:HG23	1.85	0.58
3:YQ:835:ASN:HA	3:YQ:838:VAL:HG13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KJ:7:ILE:HD12	1:KJ:83:ARG:HG3	1.84	0.58
2:PJ:14:ASN:HD21	2:PK:76:ILE:CB	2.16	0.58
1:AM:43:GLY:O	3:YF:830:THR:HG22	2.04	0.58
1:Af:43:GLY:O	3:Yi:830:THR:HG22	2.04	0.58
3:Xi:637:LEU:HA	3:Xi:649:THR:HG23	1.85	0.58
1:BV:66:ASP:OD2	3:YZ:719:LEU:HB2	2.03	0.58
1:BX:47:THR:HG23	1:IW:18:VAL:HG23	1.85	0.58
1:GW:42:GLY:C	1:GW:44:GLY:N	2.58	0.58
1:HY:80:ILE:CD1	3:YW:848:ILE:HG21	2.34	0.58
1:KU:7:ILE:HD12	1:KU:83:ARG:HG3	1.85	0.58
3:YU:835:ASN:HA	3:YU:838:VAL:HG13	1.84	0.58
3:Xx:637:LEU:HA	3:Xx:649:THR:HG23	1.85	0.58
1:Al:43:GLY:O	3:Yo:830:THR:HG22	2.04	0.58
1:Gl:42:GLY:C	1:Gl:44:GLY:H	2.11	0.58
1:Jq:80:ILE:CD1	3:XD:627:VAL:HG11	2.33	0.58
1:Kp:7:ILE:HD12	1:Kp:83:ARG:HG3	1.85	0.58
3:Yr:835:ASN:HA	3:Yr:838:VAL:HG13	1.84	0.58
1:DS:55:GLY:CA	3:Xb:643:TYR:OH	2.51	0.58
1:Fh:35:LEU:CD2	1:Dh:91:ILE:HG21	2.34	0.58
1:Fq:71:VAL:HG13	1:Dq:79:HIS:HD2	1.66	0.58
1:Db:40:PHE:CE2	1:E3:41:VAL:HG13	2.38	0.58
1:DH:82:ALA:HB3	3:Xa:619:THR:HG21	1.85	0.58
1:EB:79:HIS:HA	3:YB:703:THR:O	2.04	0.58
1:KC:7:ILE:HD12	1:KC:83:ARG:HG3	1.84	0.58
1:MB:82:ALA:HB3	1:M8:30:ALA:O	2.03	0.58
1:K4:7:ILE:HD12	1:K4:83:ARG:HG3	1.84	0.58
2:P9:14:ASN:HD21	2:P0:76:ILE:CB	2.16	0.58
3:Y7:835:ASN:HA	3:Y7:838:VAL:HG13	1.84	0.58
1:AH:43:GLY:O	3:YK:830:THR:HG22	2.04	0.58
1:AK:22:GLU:OE2	3:YI:865:GLY:N	2.18	0.58
3:YH:835:ASN:HA	3:YH:838:VAL:HG13	1.84	0.58
1:DL:25:ASP:HA	1:Ew:88:VAL:HG21	1.85	0.58
1:KM:7:ILE:HD12	1:KM:83:ARG:HG3	1.84	0.58
1:Ai:22:GLU:OE2	3:Yg:865:GLY:N	2.18	0.58
1:Lh:15:ARG:HG2	3:Xh:691:ILE:HG23	1.85	0.58
1:EU:91:ILE:HG21	1:DH:35:LEU:CD2	2.34	0.58
1:Hd:80:ILE:CD1	3:Yb:848:ILE:HG21	2.34	0.58
1:Bv:47:THR:HG23	1:Iu:18:VAL:HG23	1.85	0.58
1:Dv:80:ILE:O	3:X8:618:GLY:HA2	2.00	0.58
1:Hw:80:ILE:CD1	3:Yu:848:ILE:HG21	2.34	0.58
3:Yu:835:ASN:HA	3:Yu:838:VAL:HG13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:66:ASP:OD1	3:Yk:792:ARG:NH2	2.33	0.58
1:Ao:22:GLU:OE2	3:Ym:865:GLY:N	2.18	0.58
1:J6:79:HIS:CB	3:XN:628:THR:CG2	2.81	0.58
3:X7:616:ILE:HG23	1:DM:80:ILE:HD12	1.79	0.58
1:KI:7:ILE:HD12	1:KI:83:ARG:HG3	1.84	0.58
1:AB:43:GLY:O	3:YE:830:THR:HG22	2.04	0.58
1:A2:66:ASP:OD1	3:Y1:792:ARG:NH2	2.33	0.58
3:Y6:835:ASN:HA	3:Y6:838:VAL:HG13	1.84	0.58
2:PP:76:ILE:CD1	2:PT:14:ASN:ND2	2.67	0.58
3:YR:835:ASN:HA	3:YR:838:VAL:HG13	1.84	0.58
1:Gf:42:GLY:C	1:Gf:44:GLY:H	2.11	0.58
1:Mf:82:ALA:HB3	1:Mc:30:ALA:O	2.03	0.58
1:AW:43:GLY:O	3:YZ:830:THR:HG22	2.04	0.58
1:EX:92:LEU:HD21	1:Dn:21:ILE:HD13	1.84	0.58
3:YV:835:ASN:HA	3:YV:838:VAL:HG13	1.84	0.58
1:Kd:7:ILE:HD12	1:Kd:83:ARG:HG3	1.84	0.58
1:Au:43:GLY:O	3:Yx:830:THR:HG22	2.04	0.58
1:Au:69:GLU:OE2	3:Yt:775:CYS:HB2	2.04	0.58
1:Kt:7:ILE:HD12	1:Kt:83:ARG:HG3	1.84	0.58
3:Ys:835:ASN:HA	3:Ys:838:VAL:HG13	1.84	0.58
1:Db:12:ILE:HD12	1:Db:27:MET:HE3	1.85	0.58
1:CE:25:ASP:HA	1:HD:88:VAL:HG21	1.86	0.58
2:PA:76:ILE:CB	2:PE:14:ASN:HD21	2.17	0.58
3:XE:637:LEU:HA	3:XE:649:THR:HG23	1.85	0.58
1:A2:43:GLY:O	3:Y5:830:THR:HG22	2.04	0.58
1:B1:66:ASP:OD2	3:Y5:719:LEU:HB2	2.03	0.58
1:D0:28:THR:O	1:LR:83:ARG:NH1	2.36	0.58
2:P6:76:ILE:CD1	2:P0:14:ASN:ND2	2.67	0.58
1:AT:22:GLU:OE2	3:YR:865:GLY:N	2.18	0.58
1:AT:69:GLU:OE2	3:YS:775:CYS:HB2	2.04	0.58
1:CK:25:ASP:HA	1:HJ:88:VAL:HG21	1.85	0.58
2:PG:76:ILE:CB	2:PK:14:ASN:HD21	2.17	0.58
1:HM:62:ARG:HG2	3:YF:848:ILE:HD11	1.81	0.58
1:Ef:79:HIS:HA	3:Yf:703:THR:O	2.04	0.58
1:Lg:15:ARG:HG2	3:Xg:691:ILE:HG23	1.85	0.58
3:Xi:626:LEU:HD23	1:Jp:65:ALA:HB1	0.58	0.58
1:CX:18:VAL:HG22	1:HW:11:MET:HB3	1.86	0.58
1:GW:42:GLY:C	1:GW:44:GLY:H	2.12	0.58
1:MX:31:ALA:O	1:Mo:83:ARG:HD2	2.03	0.58
1:MX:82:ALA:HB3	1:Mj:30:ALA:O	2.04	0.58
1:Ea:58:ASN:HB2	3:Ya:707:ILE:HD13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dw:9:LEU:HD11	1:Dw:49:LEU:HB3	1.86	0.58
3:XE:627:VAL:HG13	1:Jg:80:ILE:HD11	1.82	0.58
1:H4:80:ILE:CD1	3:Y2:848:ILE:HG21	2.34	0.58
1:J4:62:ARG:HG2	3:XS:627:VAL:HG21	1.86	0.58
2:P1:76:ILE:CD1	2:P5:14:ASN:ND2	2.67	0.58
2:P4:13:THR:OG1	2:P5:78:ASP:OD2	2.21	0.58
1:A0:69:GLU:OE2	3:Y9:775:CYS:HB2	2.04	0.58
1:AQ:69:GLU:OE2	3:YP:775:CYS:HB2	2.04	0.58
1:GQ:42:GLY:C	1:GQ:44:GLY:H	2.12	0.58
1:BG:66:ASP:OD2	3:YK:719:LEU:HB2	2.03	0.58
1:Hb:62:ARG:HG3	3:YU:848:ILE:CD1	2.26	0.58
1:Ka:7:ILE:HD12	1:Ka:83:ARG:HG3	1.84	0.58
1:Eu:79:HIS:HA	3:Yu:703:THR:O	2.04	0.58
1:Kv:7:ILE:HD12	1:Kv:83:ARG:HG3	1.85	0.58
1:Mu:82:ALA:HB3	1:Mr:30:ALA:O	2.03	0.58
1:Nn:69:GLU:HG2	3:Xn:685:MET:HE1	1.86	0.58
1:EC:77:ALA:HB2	1:Dq:72:GLY:CA	2.33	0.58
1:MC:82:ALA:HB3	1:Mu:30:ALA:O	2.03	0.58
1:A5:66:ASP:OD1	3:Y4:792:ARG:NH2	2.30	0.58
1:E4:90:ASN:CB	1:DR:97:GLN:HA	2.22	0.58
1:J2:82:ALA:HB3	1:Lg:30:ALA:O	2.03	0.58
1:BR:47:THR:HG23	1:IQ:18:VAL:HG23	1.85	0.58
1:CT:25:ASP:HA	1:HS:88:VAL:HG21	1.85	0.58
1:JS:32:GLU:OE1	1:DS:7:ILE:CG1	2.51	0.58
1:CF:18:VAL:HG22	1:HO:11:MET:HB3	1.86	0.58
1:HV:62:ARG:HG2	3:YY:848:ILE:HD11	1.83	0.58
1:Ab:43:GLY:O	3:YU:830:THR:HG22	2.04	0.58
1:La:83:ARG:CZ	1:DH:32:GLU:CG	2.79	0.58
1:Mv:35:LEU:N	1:Jv:87:GLU:CD	2.62	0.58
3:Ym:705:ASN:HD22	1:Em:82:ALA:H	1.52	0.58
1:Aq:43:GLY:O	3:Yj:830:THR:HG22	2.04	0.58
1:Fj:62:ARG:HB3	3:Xj:719:LEU:O	2.04	0.58
2:Pp:76:ILE:CD1	2:Pj:14:ASN:ND2	2.67	0.58
1:FD:72:GLY:CA	1:DD:77:ALA:HB2	2.26	0.57
1:OD:85:HIS:HE2	1:DD:83:ARG:CZ	2.17	0.57
1:G2:42:GLY:C	1:G2:44:GLY:H	2.12	0.57
1:HH:62:ARG:HG2	3:YK:848:ILE:HD11	1.81	0.57
1:HJ:80:ILE:CD1	3:YH:848:ILE:HG21	2.34	0.57
3:XL:616:ILE:CG2	1:Dl:80:ILE:HD12	2.34	0.57
1:Ai:69:GLU:C	3:Yg:841:PRO:HG3	2.24	0.57
1:Mi:83:ARG:HD2	1:Mp:31:ALA:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:69:GLU:OE2	3:YX:775:CYS:HB2	2.04	0.57
1:DX:72:GLY:HA2	1:En:77:ALA:HB2	1.86	0.57
1:Jw:80:ILE:HD12	3:XM:627:VAL:CG1	2.33	0.57
1:Cj:25:ASP:HA	1:Hs:88:VAL:HG21	1.85	0.57
1:HD:80:ILE:CD1	3:YB:848:ILE:HG21	2.34	0.57
1:A3:69:GLU:OE2	3:Y2:775:CYS:HB2	2.04	0.57
1:A8:69:GLU:OE2	3:Y7:775:CYS:HB2	2.04	0.57
1:D0:55:GLY:O	3:XR:643:TYR:OH	2.21	0.57
1:K0:7:ILE:HD12	1:K0:83:ARG:HG3	1.84	0.57
1:AQ:66:ASP:OD1	3:YP:792:ARG:NH2	2.33	0.57
1:AS:69:GLU:OE2	3:YR:775:CYS:HB2	2.04	0.57
1:ES:88:VAL:HG21	1:Da:25:ASP:HA	1.86	0.57
2:PP:78:ASP:OD2	2:PT:13:THR:OG1	2.22	0.57
1:CG:62:ARG:HB3	2:PK:21:HIS:HB3	1.87	0.57
1:AL:69:GLU:O	3:YO:841:PRO:CG	2.38	0.57
1:AO:69:GLU:OE2	3:YN:775:CYS:HB2	2.04	0.57
1:Cg:18:VAL:HG22	1:Hf:11:MET:HB3	1.86	0.57
2:PY:13:THR:OG1	2:PZ:78:ASP:OD2	2.21	0.57
1:AU:69:GLU:OE2	3:Yd:775:CYS:HB2	2.04	0.57
1:Ev:87:GLU:HB2	1:D7:28:THR:HG21	1.84	0.57
1:Ht:62:ARG:HG2	3:Yw:848:ILE:HD11	1.83	0.57
1:Jw:62:ARG:NE	3:XM:624:SER:HB2	2.18	0.57
1:Ao:69:GLU:OE2	3:Yn:775:CYS:HB2	2.04	0.57
1:Cj:18:VAL:HG22	1:Hs:11:MET:HB3	1.86	0.57
1:Hr:62:ARG:HG3	3:Yp:848:ILE:CD1	2.28	0.57
1:D7:11:MET:HG2	1:D7:49:LEU:HD22	1.86	0.57
1:LN:62:ARG:NH2	3:XN:644:VAL:HG13	2.13	0.57
1:AE:69:GLU:OE2	3:YD:775:CYS:HB2	2.04	0.57
1:BC:62:ARG:HB3	3:YB:720:ALA:HB3	1.87	0.57
1:CA:62:ARG:HB3	2:PE:21:HIS:HB3	1.87	0.57
1:LC:15:ARG:HG2	3:XC:691:ILE:HG23	1.85	0.57
1:D2:79:HIS:CD2	3:Xg:617:SER:O	2.58	0.57
1:A7:43:GLY:O	3:Y0:830:THR:HG22	2.04	0.57
1:B8:47:THR:HG23	1:I7:18:VAL:HG23	1.85	0.57
1:C0:25:ASP:HA	1:H9:88:VAL:HG21	1.85	0.57
1:D0:79:HIS:CG	3:XR:617:SER:O	2.58	0.57
1:KQ:7:ILE:HD12	1:KQ:83:ARG:HG3	1.85	0.57
1:AH:66:ASP:OD1	3:YG:792:ARG:NH2	2.33	0.57
1:AK:69:GLU:OE2	3:YJ:775:CYS:HB2	2.04	0.57
1:EM:58:ASN:HB2	3:YM:707:ILE:HD13	1.87	0.57
1:Ai:69:GLU:OE2	3:Yh:775:CYS:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bg:62:ARG:HB3	3:Yf:720:ALA:HB3	1.86	0.57
1:JX:82:ALA:HB3	1:Lo:30:ALA:O	2.04	0.57
1:Jb:62:ARG:NH1	3:X4:620:SER:OG	2.37	0.57
2:Pd:13:THR:OG1	2:PU:78:ASP:OD2	2.21	0.57
1:Ct:62:ARG:HB3	2:Px:21:HIS:HB3	1.87	0.57
1:Lw:15:ARG:HG2	3:Xw:691:ILE:HG23	1.85	0.57
2:Pt:78:ASP:OD2	2:Px:13:THR:OG1	2.22	0.57
1:Ao:69:GLU:C	3:Ym:841:PRO:HG3	2.24	0.57
1:Cm:18:VAL:HG22	1:Hl:11:MET:HB3	1.86	0.57
2:Pk:76:ILE:CB	2:Po:14:ASN:HD21	2.17	0.57
1:Aq:69:GLU:OE2	3:Yp:775:CYS:HB2	2.04	0.57
2:Ps:14:ASN:HD21	2:Pj:76:ILE:CB	2.16	0.57
1:DD:6:GLY:HA3	1:DD:53:GLU:HA	1.86	0.57
1:DH:79:HIS:CD2	3:Xa:617:SER:HB2	2.38	0.57
1:AB:66:ASP:OD1	3:YA:792:ARG:NH2	2.33	0.57
1:ED:77:ALA:CB	1:Dg:18:VAL:HG11	2.34	0.57
1:FD:25:ASP:HA	1:DD:88:VAL:HG21	1.85	0.57
1:MC:30:ALA:O	1:Mr:82:ALA:HB3	2.04	0.57
1:E2:91:ILE:HG21	1:Df:35:LEU:HD21	1.87	0.57
1:F4:28:THR:HG21	1:D4:87:GLU:HB2	1.85	0.57
1:M3:71:VAL:HG13	1:J3:79:HIS:HD2	1.70	0.57
1:A7:69:GLU:OE2	3:Y6:775:CYS:HB2	2.04	0.57
1:E6:58:ASN:HB2	3:Y6:707:ILE:HD13	1.85	0.57
1:EQ:79:HIS:HA	3:YQ:703:THR:O	2.04	0.57
1:ER:85:HIS:ND1	1:D4:28:THR:CG2	2.65	0.57
1:CZ:18:VAL:HG22	1:HY:11:MET:HB3	1.86	0.57
1:NY:69:GLU:HG2	3:XY:685:MET:HE1	1.86	0.57
1:Aa:69:GLU:O	3:Yd:841:PRO:CG	2.38	0.57
1:Cc:18:VAL:HG22	1:Hb:11:MET:HB3	1.86	0.57
1:GU:41:VAL:HB	1:GU:45:TYR:HB2	1.85	0.57
1:Hd:62:ARG:HG2	3:Yb:848:ILE:HD11	1.83	0.57
2:Pa:76:ILE:CD1	2:PU:14:ASN:ND2	2.67	0.57
2:Pd:14:ASN:ND2	2:PU:76:ILE:CD1	2.68	0.57
1:At:69:GLU:O	3:Yw:841:PRO:CG	2.38	0.57
1:Bv:62:ARG:HB3	3:Yu:720:ALA:HB3	1.86	0.57
1:Bx:83:ARG:NH1	1:Ew:28:THR:O	2.35	0.57
1:Cr:18:VAL:HG22	1:Hq:11:MET:HB3	1.86	0.57
1:Fh:29:LYS:HA	1:Dh:85:HIS:CD2	2.38	0.57
1:AC:69:GLU:C	3:YA:841:PRO:HG3	2.26	0.57
1:AD:69:GLU:OE2	3:YC:775:CYS:HB2	2.04	0.57
1:GB:42:GLY:C	1:GB:44:GLY:N	2.58	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HB:62:ARG:HG2	3:YE:848:ILE:HD11	1.81	0.57
1:AQ:43:GLY:O	3:YT:830:THR:HG22	2.04	0.57
1:CR:18:VAL:HG22	1:HQ:11:MET:HB3	1.86	0.57
1:AJ:69:GLU:OE2	3:YI:775:CYS:HB2	2.04	0.57
1:GH:42:GLY:C	1:GH:44:GLY:N	2.58	0.57
1:AW:66:ASP:OD1	3:YV:792:ARG:NH2	2.33	0.57
1:AW:69:GLU:OE2	3:YV:775:CYS:HB2	2.04	0.57
1:HX:62:ARG:HG3	3:YV:848:ILE:CD1	2.28	0.57
2:PV:78:ASP:OD2	2:PZ:13:THR:OG1	2.22	0.57
1:Ca:62:ARG:HB3	2:PU:21:HIS:HB3	1.87	0.57
1:Av:69:GLU:OE2	3:Yu:775:CYS:HB2	2.04	0.57
1:Dt:97:GLN:HA	1:Er:90:ASN:CB	2.26	0.57
1:CE:18:VAL:HG22	1:HD:11:MET:HB3	1.86	0.57
1:JD:80:ILE:CD1	3:Xh:627:VAL:HG11	2.34	0.57
1:A4:69:GLU:OE2	3:Y3:775:CYS:HB2	2.04	0.57
1:C5:25:ASP:HA	1:H4:88:VAL:HG21	1.86	0.57
1:BT:83:ARG:NH1	1:ES:28:THR:O	2.35	0.57
1:CK:18:VAL:HG22	1:HJ:11:MET:HB3	1.86	0.57
1:DK:72:GLY:HA2	1:EO:77:ALA:HB2	1.87	0.57
1:AM:69:GLU:OE2	3:YL:775:CYS:HB2	2.04	0.57
1:HO:80:ILE:CD1	3:YM:848:ILE:HG21	2.34	0.57
2:PO:14:ASN:ND2	2:PF:76:ILE:CD1	2.68	0.57
1:Af:69:GLU:OE2	3:Ye:775:CYS:HB2	2.04	0.57
1:Ce:62:ARG:HB3	2:Pi:21:HIS:HB3	1.86	0.57
2:Pe:76:ILE:CB	2:Pi:14:ASN:HD21	2.17	0.57
1:AX:69:GLU:O	3:YV:841:PRO:CG	2.37	0.57
1:MU:31:ALA:O	1:MI:83:ARG:HD2	2.05	0.57
1:Lu:80:ILE:CD1	3:Xu:638:ILE:HG21	2.32	0.57
2:Pt:76:ILE:CD1	2:Px:14:ASN:ND2	2.67	0.57
1:Hn:80:ILE:CD1	3:Yl:848:ILE:HG21	2.34	0.57
1:Aj:69:GLU:OE2	3:Ys:775:CYS:HB2	2.04	0.57
1:Br:47:THR:CG2	1:Iq:18:VAL:CG2	2.83	0.57
2:Pp:76:ILE:CB	2:Pj:14:ASN:HD21	2.17	0.57
1:LN:62:ARG:NH1	3:XN:634:GLU:HA	2.19	0.57
1:MK:82:ALA:HB3	1:Mm:30:ALA:O	2.04	0.57
1:BC:47:THR:CG2	1:IB:18:VAL:CG2	2.83	0.57
1:D2:72:GLY:HA2	1:Ef:77:ALA:HB2	1.87	0.57
1:C0:62:ARG:HB3	2:P9:21:HIS:HB3	1.87	0.57
1:E0:90:ASN:CB	1:DQ:97:GLN:HA	2.26	0.57
1:E7:90:ASN:CB	1:Dv:97:GLN:HA	2.19	0.57
1:G0:41:VAL:HB	1:G0:45:TYR:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MQ:82:ALA:HB3	1:MN:30:ALA:O	2.04	0.57
1:AI:69:GLU:C	3:YG:841:PRO:HG3	2.26	0.57
1:CJ:62:ARG:HB3	2:PI:21:HIS:HB3	1.87	0.57
1:CL:62:ARG:HB3	2:PF:21:HIS:HB3	1.87	0.57
1:FO:79:HIS:HA	3:XO:725:THR:O	2.05	0.57
1:Hh:80:ILE:CD1	3:Yf:848:ILE:HG21	2.34	0.57
1:Jf:62:ARG:NH1	3:X3:622:ASP:O	2.34	0.57
2:Pe:76:ILE:CD1	2:Pi:14:ASN:ND2	2.67	0.57
2:Pe:78:ASP:OD2	2:Pi:13:THR:OG1	2.22	0.57
3:Xf:622:ASP:O	1:Jc:62:ARG:HD2	2.05	0.57
1:AZ:69:GLU:OE2	3:YY:775:CYS:HB2	2.04	0.57
1:AU:22:GLU:OE2	3:Yc:865:GLY:N	2.18	0.57
1:Co:18:VAL:HG22	1:Hn:11:MET:HB3	1.86	0.57
1:Fn:71:VAL:HG22	3:XY:617:SER:HG	1.67	0.57
2:Pk:76:ILE:CD1	2:Po:14:ASN:ND2	2.66	0.57
2:Pk:78:ASP:OD2	2:Po:13:THR:OG1	2.22	0.57
1:As:66:ASP:OD1	3:Yr:792:ARG:NH2	2.33	0.57
2:Pp:78:ASP:OD2	2:Pj:13:THR:OG1	2.22	0.57
2:Ps:13:THR:OG1	2:Pj:78:ASP:OD2	2.21	0.57
1:Df:31:ALA:CB	1:Df:59:ALA:HB3	2.35	0.57
1:AB:69:GLU:OE2	3:YA:775:CYS:HB2	2.04	0.57
1:CD:62:ARG:HB3	2:PC:21:HIS:HB3	1.87	0.57
1:MA:83:ARG:HD2	1:M1:31:ALA:O	2.05	0.57
1:D2:58:ASN:CG	3:Xg:621:VAL:HG21	2.30	0.57
1:D3:80:ILE:HD11	3:Xc:616:ILE:HG21	1.86	0.57
1:A8:69:GLU:CD	3:Y7:775:CYS:HB2	2.30	0.57
3:X6:616:ILE:HD12	1:DQ:78:ALA:HB1	1.86	0.57
1:HS:80:ILE:CD1	3:YQ:848:ILE:HG21	2.34	0.57
3:YR:703:THR:CB	1:D4:71:VAL:HG12	2.35	0.57
1:BI:47:THR:CG2	1:IH:18:VAL:CG2	2.83	0.57
1:GH:42:GLY:C	1:GH:44:GLY:H	2.12	0.57
1:AL:91:ILE:HD13	1:BL:35:LEU:HD21	1.87	0.57
1:EW:91:ILE:HG21	1:Dj:35:LEU:CD2	2.34	0.57
3:XZ:643:TYR:HE1	1:DI:59:ALA:H	1.53	0.57
1:Bc:47:THR:CG2	1:Ib:18:VAL:CG2	2.83	0.57
1:Lc:28:THR:O	1:J3:83:ARG:NH1	2.37	0.57
2:Pa:76:ILE:CB	2:PU:14:ASN:HD21	2.17	0.57
1:Al:69:GLU:OE2	3:Yk:775:CYS:HB2	2.04	0.57
1:Bm:47:THR:HG23	1:Il:18:VAL:HG23	1.85	0.57
1:Ln:83:ARG:CG	1:DJ:32:GLU:HG2	2.33	0.57
1:Jj:80:ILE:HD12	3:XX:627:VAL:CG1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ps:14:ASN:ND2	2:Pj:76:ILE:CD1	2.68	0.57
1:DF:7:ILE:HD13	1:JF:32:GLU:CD	2.29	0.57
1:AC:69:GLU:OE2	3:YB:775:CYS:HB2	2.04	0.57
1:DB:25:ASP:CG	1:Eu:88:VAL:HG21	2.30	0.57
1:EA:88:VAL:HG21	1:D8:25:ASP:HA	1.87	0.57
1:A9:69:GLU:OE2	3:Y8:775:CYS:HB2	2.04	0.57
1:LQ:80:ILE:CD1	3:XQ:638:ILE:HG21	2.32	0.57
3:XQ:622:ASP:O	1:JN:62:ARG:HD2	2.05	0.57
1:EJ:91:ILE:HG21	1:Dm:35:LEU:CD2	2.34	0.57
1:FJ:72:GLY:HA2	1:DJ:77:ALA:HB2	1.87	0.57
1:BN:47:THR:CG2	1:IM:18:VAL:CG2	2.83	0.57
1:MM:82:ALA:HB3	1:Mw:30:ALA:O	2.04	0.57
1:Ci:18:VAL:HG22	1:Hh:11:MET:HB3	1.86	0.57
2:PY:14:ASN:HD21	2:PZ:76:ILE:CB	2.16	0.57
1:Cd:62:ARG:HB3	2:Pc:21:HIS:HB3	1.87	0.57
1:Cx:18:VAL:HG22	1:Hw:11:MET:HB3	1.86	0.57
1:Et:85:HIS:CE1	1:Dr:28:THR:CG2	2.88	0.57
1:Cl:62:ARG:HB3	2:Pk:21:HIS:HB3	1.87	0.57
1:Co:62:ARG:HB3	2:Pn:21:HIS:HB3	1.87	0.57
1:Gl:42:GLY:C	1:Gl:44:GLY:N	2.58	0.57
1:Aj:69:GLU:C	3:Yr:841:PRO:HG3	2.24	0.57
1:As:69:GLU:OE2	3:Yr:775:CYS:HB2	2.04	0.57
1:F4:25:ASP:HA	1:D4:88:VAL:CG2	2.35	0.57
1:H5:62:ARG:CA	3:Y3:848:ILE:HD11	2.32	0.57
1:C6:62:ARG:HB3	2:P0:21:HIS:HB3	1.87	0.57
1:CP:62:ARG:HB3	2:PT:21:HIS:HB3	1.87	0.57
1:AH:69:GLU:OE2	3:YG:775:CYS:HB2	2.04	0.57
1:AI:69:GLU:OE2	3:YH:775:CYS:HB2	2.04	0.57
1:BF:83:ARG:NH1	1:EO:28:THR:O	2.35	0.57
1:Ai:69:GLU:CD	3:Yh:775:CYS:HB2	2.30	0.57
1:BX:47:THR:CG2	1:IW:18:VAL:CG2	2.83	0.57
1:FU:62:ARG:HB3	3:XU:719:LEU:O	2.04	0.57
2:Pa:78:ASP:OD2	2:PU:13:THR:OG1	2.22	0.57
1:Gu:42:GLY:C	1:Gu:44:GLY:H	2.12	0.57
1:Mt:83:ARG:HD2	1:Mk:31:ALA:O	2.05	0.57
1:Am:69:GLU:OE2	3:Yl:775:CYS:HB2	2.04	0.57
1:An:69:GLU:OE2	3:Ym:775:CYS:HB2	2.04	0.57
1:Ck:62:ARG:HB3	2:Po:21:HIS:HB3	1.87	0.57
1:Ep:58:ASN:HB2	3:Yp:707:ILE:HD13	1.85	0.57
1:A1:43:GLY:O	3:Y4:830:THR:HG22	2.05	0.56
2:P4:14:ASN:ND2	2:P5:76:ILE:CD1	2.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F0:62:ARG:HB3	3:X0:719:LEU:O	2.04	0.56
3:X6:616:ILE:CG2	1:DQ:80:ILE:CD1	2.83	0.56
1:AR:69:GLU:CD	3:YQ:775:CYS:HB2	2.30	0.56
1:MJ:31:ALA:O	1:Mn:83:ARG:HD2	2.05	0.56
1:AN:69:GLU:C	3:YL:841:PRO:HG3	2.27	0.56
1:AN:69:GLU:OE2	3:YM:775:CYS:HB2	2.04	0.56
3:XL:616:ILE:HG22	1:Dl:80:ILE:HD12	1.87	0.56
1:Cf:62:ARG:HB3	2:Pe:21:HIS:HB3	1.87	0.56
1:Ee:88:VAL:HG21	1:Dc:25:ASP:HA	1.87	0.56
1:Gf:42:GLY:C	1:Gf:44:GLY:N	2.58	0.56
1:CZ:62:ARG:HB3	2:PY:21:HIS:HB3	1.87	0.56
1:DZ:72:GLY:HA2	1:Ed:77:ALA:HB2	1.87	0.56
2:PY:14:ASN:ND2	2:PZ:76:ILE:CD1	2.68	0.56
1:Ab:69:GLU:OE2	3:Ya:775:CYS:HB2	2.04	0.56
1:CU:18:VAL:HG22	1:Hd:11:MET:HB3	1.86	0.56
1:Fd:79:HIS:HA	3:Xd:725:THR:O	2.05	0.56
1:Aw:69:GLU:OE2	3:Yv:775:CYS:HB2	2.04	0.56
1:Ao:69:GLU:CD	3:Yn:775:CYS:HB2	2.30	0.56
1:Bm:47:THR:CG2	1:Il:18:VAL:CG2	2.83	0.56
1:Bn:62:ARG:HB3	3:Ym:720:ALA:HB3	1.87	0.56
1:Dh:12:ILE:HD12	1:Dh:27:MET:HE3	1.87	0.56
1:FD:18:VAL:HG22	1:DD:11:MET:HB3	1.87	0.56
1:E7:58:ASN:HB2	3:Y7:707:ILE:HD13	1.87	0.56
3:X9:637:LEU:HA	3:X9:649:THR:HG23	1.86	0.56
1:AO:66:ASP:OD1	3:YN:792:ARG:NH2	2.33	0.56
2:PL:78:ASP:OD2	2:PF:13:THR:OG1	2.22	0.56
1:Ag:69:GLU:OE2	3:Yf:775:CYS:HB2	2.04	0.56
1:Ah:69:GLU:OE2	3:Yg:775:CYS:HB2	2.04	0.56
1:Bg:47:THR:HG23	1:If:18:VAL:HG23	1.85	0.56
3:Xi:643:TYR:HE2	1:Dp:55:GLY:CA	2.18	0.56
1:AZ:69:GLU:C	3:YX:841:PRO:HG3	2.24	0.56
1:BV:62:ARG:HB3	3:YZ:720:ALA:HB3	1.88	0.56
1:EW:77:ALA:HB1	1:Dj:18:VAL:HG11	1.86	0.56
1:HV:62:ARG:CA	3:YY:848:ILE:HD11	2.35	0.56
2:PV:76:ILE:CB	2:PZ:14:ASN:HD21	2.17	0.56
1:AU:69:GLU:C	3:Yc:841:PRO:HG3	2.24	0.56
1:Bv:47:THR:CG2	1:Iu:18:VAL:CG2	2.83	0.56
1:Cw:62:ARG:HB3	2:Pv:21:HIS:HB3	1.87	0.56
2:Pn:14:ASN:HD21	2:Po:76:ILE:CB	2.16	0.56
1:Aj:69:GLU:CD	3:Ys:775:CYS:HB2	2.30	0.56
1:DS:34:ARG:HG2	1:DS:51:ARG:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:43:GLY:O	3:YD:830:THR:HG22	2.05	0.56
1:EE:58:ASN:HB2	3:YE:707:ILE:HD13	1.88	0.56
1:GB:42:GLY:C	1:GB:44:GLY:H	2.12	0.56
1:MA:82:ALA:HB3	1:M1:30:ALA:O	2.06	0.56
3:XE:628:THR:HG1	1:Jg:79:HIS:CB	1.94	0.56
1:A3:69:GLU:CD	3:Y2:775:CYS:HB2	2.30	0.56
1:C2:62:ARG:HB3	2:P1:21:HIS:HB3	1.87	0.56
1:C5:62:ARG:HB3	2:P4:21:HIS:HB3	1.87	0.56
1:O3:80:ILE:O	3:X3:716:PRO:HD3	2.06	0.56
1:A8:69:GLU:C	3:Y6:841:PRO:HG3	2.27	0.56
1:F9:79:HIS:HA	3:X9:725:THR:O	2.05	0.56
1:L8:29:LYS:O	1:Mv:29:LYS:NZ	2.30	0.56
2:P6:76:ILE:CB	2:P0:14:ASN:HD21	2.17	0.56
1:AT:69:GLU:CD	3:YS:775:CYS:HB2	2.30	0.56
1:BR:47:THR:CG2	1:IQ:18:VAL:CG2	2.83	0.56
1:BR:62:ARG:HB3	3:YQ:720:ALA:HB3	1.86	0.56
1:CR:62:ARG:HB3	2:PQ:21:HIS:HB3	1.88	0.56
1:AG:43:GLY:O	3:YJ:830:THR:HG22	2.05	0.56
1:EH:90:ASN:HB3	1:DU:97:GLN:O	2.05	0.56
1:II:62:ARG:HG3	3:XI:730:PHE:HB3	1.85	0.56
1:NJ:69:GLU:HG2	3:XJ:685:MET:HE1	1.86	0.56
1:AF:69:GLU:CD	3:YO:775:CYS:HB2	2.30	0.56
1:CN:18:VAL:HG22	1:HM:11:MET:HB3	1.86	0.56
1:JL:80:ILE:HD11	3:Xx:627:VAL:CG1	2.32	0.56
1:Bg:47:THR:CG2	1:If:18:VAL:CG2	2.83	0.56
1:Ci:25:ASP:HA	1:Hh:88:VAL:HG21	1.85	0.56
1:Me:82:ALA:HB3	1:MV:30:ALA:O	2.05	0.56
1:BY:62:ARG:HB3	3:YX:720:ALA:HB3	1.87	0.56
1:BZ:83:ARG:NH1	1:EY:28:THR:O	2.35	0.56
3:XV:643:TYR:CE1	1:Dd:58:ASN:HB3	2.41	0.56
1:Ac:69:GLU:CD	3:Yb:775:CYS:HB2	2.30	0.56
1:BU:47:THR:HG23	1:Id:18:VAL:HG23	1.88	0.56
1:Cc:62:ARG:HB3	2:Pb:21:HIS:HB3	1.88	0.56
1:Ax:69:GLU:OE2	3:Yw:775:CYS:HB2	2.04	0.56
1:Fw:18:VAL:HG22	1:Dw:11:MET:HE2	1.86	0.56
3:Xu:622:ASP:O	1:Jr:62:ARG:HD2	2.05	0.56
1:Ak:66:ASP:OD1	3:Yo:792:ARG:NH2	2.29	0.56
1:Cn:62:ARG:HB3	2:Pm:21:HIS:HB3	1.87	0.56
1:Ho:62:ARG:HG2	3:Ym:848:ILE:HD11	1.77	0.56
2:Pn:14:ASN:ND2	2:Po:76:ILE:CD1	2.68	0.56
1:Ep:85:HIS:CE1	1:Dh:28:THR:CG2	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Gj:41:VAL:HB	1:Gj:45:TYR:HB2	1.85	0.56
1:Jj:80:ILE:CD1	3:XX:627:VAL:CG1	2.83	0.56
3:Xs:637:LEU:HA	3:Xs:649:THR:HG23	1.86	0.56
1:Dh:33:VAL:HB	1:Dh:50:VAL:HB	1.88	0.56
1:Dh:33:VAL:HG13	1:Dh:56:ALA:HB1	1.85	0.56
1:DY:11:MET:HG2	1:DY:49:LEU:HD22	1.88	0.56
1:Nm:17:LEU:HB2	1:Lm:41:VAL:HG22	1.86	0.56
1:EC:85:HIS:ND1	1:Dq:28:THR:CG2	2.68	0.56
1:A2:69:GLU:OE2	3:Y1:775:CYS:HB2	2.04	0.56
1:A5:69:GLU:OE2	3:Y4:775:CYS:HB2	2.04	0.56
1:F4:29:LYS:CB	1:D4:85:HIS:CD2	2.78	0.56
1:H3:62:ARG:HG2	3:Y1:848:ILE:HD11	1.78	0.56
1:N4:69:GLU:HG2	3:X4:685:MET:HE1	1.86	0.56
2:P1:14:ASN:HD21	2:P2:76:ILE:CB	2.19	0.56
2:P1:78:ASP:OD2	2:P5:13:THR:OG1	2.22	0.56
1:C8:18:VAL:HG22	1:H7:11:MET:HB3	1.86	0.56
1:H0:62:ARG:HG2	3:Y8:848:ILE:HD11	1.77	0.56
1:AR:69:GLU:OE2	3:YQ:775:CYS:HB2	2.04	0.56
1:CS:62:ARG:HB3	2:PR:21:HIS:HB3	1.87	0.56
1:MP:82:ALA:HB3	1:MG:30:ALA:O	2.06	0.56
1:MP:83:ARG:HD2	1:MG:31:ALA:O	2.05	0.56
2:PP:76:ILE:CB	2:PT:14:ASN:HD21	2.17	0.56
1:CH:62:ARG:HB3	2:PG:21:HIS:HB3	1.87	0.56
1:JJ:62:ARG:CZ	3:Xn:624:SER:N	2.68	0.56
1:AN:69:GLU:CD	3:YM:775:CYS:HB2	2.30	0.56
1:Ae:66:ASP:OD1	3:Yi:792:ARG:NH2	2.29	0.56
1:Bi:47:THR:CG2	1:Ih:18:VAL:CG2	2.84	0.56
1:Ch:62:ARG:HB3	2:Pg:21:HIS:HB3	1.87	0.56
1:Hi:62:ARG:HG2	3:Yg:848:ILE:HD11	1.77	0.56
1:Me:83:ARG:HD2	1:MV:31:ALA:O	2.05	0.56
1:AX:69:GLU:CD	3:YW:775:CYS:HB2	2.30	0.56
1:BZ:47:THR:CG2	1:IY:18:VAL:CG2	2.84	0.56
1:BZ:47:THR:HG23	1:IY:18:VAL:HG23	1.88	0.56
2:PX:14:ASN:HD21	2:PY:76:ILE:CB	2.19	0.56
1:Ea:85:HIS:CG	1:DS:28:THR:HG22	2.40	0.56
1:Av:69:GLU:CD	3:Yu:775:CYS:HB2	2.30	0.56
1:Ax:69:GLU:CD	3:Yw:775:CYS:HB2	2.30	0.56
1:Bx:47:THR:CG2	1:Iw:18:VAL:CG2	2.84	0.56
1:Bo:47:THR:CG2	1:In:18:VAL:CG2	2.84	0.56
1:Fs:79:HIS:HA	3:Xs:725:THR:O	2.05	0.56
1:EA:85:HIS:CE1	1:D8:28:THR:CG2	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PA:3:ILE:HG23	2:PA:77:ILE:CD1	2.36	0.56
1:B5:47:THR:HG23	1:I4:18:VAL:HG23	1.88	0.56
1:C2:25:ASP:HA	1:H1:88:VAL:HG21	1.88	0.56
1:A6:43:GLY:O	3:Y9:830:THR:HG22	2.05	0.56
1:B8:47:THR:CG2	1:I7:18:VAL:CG2	2.83	0.56
2:P9:14:ASN:ND2	2:P0:76:ILE:CD1	2.68	0.56
1:AK:69:GLU:CD	3:YJ:775:CYS:HB2	2.30	0.56
1:Hi:62:ARG:CA	3:Yg:848:ILE:HD11	2.33	0.56
1:JX:62:ARG:CG	3:Xo:627:VAL:HG21	2.24	0.56
2:PV:3:ILE:HG23	2:PV:77:ILE:CD1	2.36	0.56
2:PW:3:ILE:HG23	2:PW:77:ILE:CD1	2.36	0.56
1:Ad:69:GLU:OE2	3:Yc:775:CYS:HB2	2.04	0.56
1:BU:47:THR:CG2	1:Id:18:VAL:CG2	2.84	0.56
1:Cb:62:ARG:HB3	2:Pa:21:HIS:HB3	1.87	0.56
1:Lc:30:ALA:O	1:J3:82:ALA:HB3	2.05	0.56
2:PU:3:ILE:HG23	2:PU:77:ILE:CD1	2.36	0.56
1:Ax:22:GLU:OE2	3:Yv:865:GLY:N	2.18	0.56
1:Am:69:GLU:CD	3:Yl:775:CYS:HB2	2.30	0.56
1:Co:25:ASP:HA	1:Hn:88:VAL:HG21	1.86	0.56
1:Ap:43:GLY:O	3:Ys:830:THR:HG22	2.05	0.56
1:Cp:62:ARG:HB3	2:Pj:21:HIS:HB3	1.87	0.56
1:Cs:62:ARG:HB3	2:Pr:21:HIS:HB3	1.87	0.56
2:Pp:14:ASN:HD21	2:Pq:76:ILE:CB	2.19	0.56
1:J6:62:ARG:NH2	3:XN:624:SER:CB	2.57	0.56
1:CB:62:ARG:HB3	2:PA:21:HIS:HB3	1.87	0.56
1:CC:18:VAL:HG22	1:HB:11:MET:HB3	1.86	0.56
1:DC:79:HIS:CG	3:Xr:617:SER:O	2.59	0.56
1:EC:79:HIS:HE1	1:Dq:22:GLU:CD	2.09	0.56
1:FD:28:THR:HG22	1:DD:85:HIS:CG	2.29	0.56
1:B1:62:ARG:HB3	3:Y5:720:ALA:HB3	1.88	0.56
1:B5:83:ARG:NH1	1:E4:28:THR:O	2.35	0.56
1:C3:18:VAL:HG22	1:H2:11:MET:HB3	1.86	0.56
1:C3:62:ARG:HB3	2:P2:21:HIS:HB3	1.88	0.56
1:D2:25:ASP:HA	1:Ef:88:VAL:HG21	1.86	0.56
1:A0:69:GLU:CD	3:Y9:775:CYS:HB2	2.30	0.56
1:C9:62:ARG:HB3	2:P8:21:HIS:HB3	1.87	0.56
1:AP:43:GLY:O	3:YS:830:THR:HG22	2.05	0.56
1:ER:85:HIS:CG	1:D4:28:THR:HG21	2.40	0.56
2:PR:14:ASN:HD21	2:PS:76:ILE:CB	2.19	0.56
1:BI:80:ILE:CD1	3:YH:724:ILE:HD11	2.36	0.56
1:CK:62:ARG:HB3	2:PJ:21:HIS:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EJ:85:HIS:CE1	1:Dm:28:THR:HG22	2.41	0.56
2:PG:3:ILE:HG23	2:PG:77:ILE:CD1	2.36	0.56
2:PG:78:ASP:OD2	2:PK:13:THR:OG1	2.22	0.56
1:AL:43:GLY:O	3:YO:830:THR:HG22	2.05	0.56
1:CF:62:ARG:HB3	2:PO:21:HIS:HB3	1.87	0.56
3:XO:637:LEU:HA	3:XO:649:THR:HG23	1.86	0.56
1:AX:69:GLU:OE2	3:YW:775:CYS:HB2	2.04	0.56
1:AU:69:GLU:CD	3:Yd:775:CYS:HB2	2.30	0.56
1:La:83:ARG:CZ	1:DH:32:GLU:CA	2.75	0.56
2:Pa:3:ILE:HG23	2:Pa:77:ILE:CD1	2.36	0.56
1:Cv:62:ARG:HB3	2:Pu:21:HIS:HB3	1.88	0.56
1:Ex:58:ASN:HB2	3:Yx:707:ILE:HD13	1.88	0.56
2:Pv:3:ILE:HG23	2:Pv:77:ILE:CD1	2.36	0.56
3:Xk:643:TYR:CE1	1:Ds:58:ASN:HB3	2.41	0.56
1:Aq:66:ASP:OD1	3:Yp:792:ARG:NH2	2.33	0.56
2:Ps:3:ILE:HG23	2:Ps:77:ILE:CD1	2.36	0.56
2:Pj:3:ILE:HG23	2:Pj:77:ILE:CD1	2.36	0.56
1:DB:31:ALA:O	1:Lv:83:ARG:NH1	2.38	0.56
1:DC:58:ASN:CB	3:Xr:643:TYR:CD1	2.64	0.56
1:DC:58:ASN:CG	3:Xr:643:TYR:CE1	2.79	0.56
2:PA:78:ASP:OD2	2:PE:13:THR:OG1	2.22	0.56
1:B3:47:THR:CG2	1:I2:18:VAL:CG2	2.83	0.56
1:C7:62:ARG:HB3	2:P6:21:HIS:HB3	1.87	0.56
2:P6:14:ASN:HD21	2:P7:76:ILE:CB	2.19	0.56
2:P6:78:ASP:OD2	2:P0:13:THR:OG1	2.22	0.56
2:P8:13:THR:OG1	2:P9:78:ASP:OD2	2.24	0.56
1:CQ:62:ARG:HB3	2:PP:21:HIS:HB3	1.87	0.56
1:CT:18:VAL:HG22	1:HS:11:MET:HB3	1.86	0.56
1:EP:85:HIS:CE1	1:DN:28:THR:CG2	2.88	0.56
1:BJ:62:ARG:HB3	3:YI:720:ALA:HB3	1.87	0.56
2:PN:14:ASN:HD21	2:PO:76:ILE:CB	2.19	0.56
2:Pe:3:ILE:HG23	2:Pe:77:ILE:CD1	2.36	0.56
2:Pg:3:ILE:HG23	2:Pg:77:ILE:CD1	2.36	0.56
1:DX:28:THR:CG2	1:En:87:GLU:OE1	2.53	0.56
1:Cw:25:ASP:HA	1:Hv:88:VAL:HG21	1.88	0.56
1:Et:88:VAL:HG21	1:Dr:25:ASP:HA	1.87	0.56
2:Pu:3:ILE:HG23	2:Pu:77:ILE:CD1	2.36	0.56
1:Ho:62:ARG:CA	3:Ym:848:ILE:HD11	2.33	0.56
2:Pk:3:ILE:HG23	2:Pk:77:ILE:CD1	2.36	0.56
2:Pm:3:ILE:HG23	2:Pm:77:ILE:CD1	2.36	0.56
2:Po:3:ILE:HG23	2:Po:77:ILE:CD1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ar:69:GLU:CD	3:Yq:775:CYS:HB2	2.30	0.56
1:Cs:25:ASP:HA	1:Hr:88:VAL:HG21	1.88	0.56
1:Hr:62:ARG:HG2	3:Yp:848:ILE:HD11	1.77	0.56
2:Pp:3:ILE:HG23	2:Pp:77:ILE:CD1	2.36	0.56
3:XB:622:ASP:O	1:J8:62:ARG:HD2	2.05	0.56
1:A4:66:ASP:OD1	3:Y3:792:ARG:NH2	2.33	0.56
1:B4:62:ARG:HB3	3:Y3:720:ALA:HB3	1.87	0.56
1:E7:91:ILE:HG21	1:Dv:35:LEU:HD23	1.87	0.56
1:H0:62:ARG:CA	3:Y8:848:ILE:HD11	2.33	0.56
2:P6:3:ILE:HG23	2:P6:77:ILE:CD1	2.36	0.56
2:P7:3:ILE:HG23	2:P7:77:ILE:CD1	2.36	0.56
1:JR:62:ARG:CG	3:X5:627:VAL:HG21	2.18	0.56
1:LS:83:ARG:HD2	1:D4:31:ALA:O	2.06	0.56
2:Pi:3:ILE:HG23	2:Pi:77:ILE:CD1	2.36	0.56
1:CY:62:ARG:HB3	2:PX:21:HIS:HB3	1.87	0.56
2:PX:3:ILE:HG23	2:PX:77:ILE:CD1	2.36	0.56
1:Ac:69:GLU:OE2	3:Yb:775:CYS:HB2	2.04	0.56
1:Cb:25:ASP:HA	1:Ha:88:VAL:HG21	1.88	0.56
1:Ea:85:HIS:CG	1:DS:28:THR:HG21	2.41	0.56
2:Pc:3:ILE:HG23	2:Pc:77:ILE:CD1	2.36	0.56
2:PU:41:ALA:HB2	2:PU:62:ALA:HB2	1.88	0.56
1:Cq:62:ARG:HB3	2:Pp:21:HIS:HB3	1.87	0.56
1:AE:69:GLU:CD	3:YD:775:CYS:HB2	2.30	0.56
1:BA:47:THR:HG23	1:IE:18:VAL:HG23	1.88	0.56
1:CD:25:ASP:HA	1:HC:88:VAL:HG21	1.88	0.56
1:DC:79:HIS:CA	3:Xr:617:SER:O	2.47	0.56
1:DC:80:ILE:HD12	3:Xr:616:ILE:HG23	1.82	0.56
2:PA:13:THR:OG1	2:PB:78:ASP:OD2	2.24	0.56
1:A5:69:GLU:CD	3:Y4:775:CYS:HB2	2.30	0.56
2:P4:3:ILE:HG23	2:P4:77:ILE:CD1	2.36	0.56
3:X1:643:TYR:CE1	1:D9:58:ASN:HB3	2.41	0.56
1:C8:62:ARG:HB3	2:P7:21:HIS:HB3	1.88	0.56
1:BT:47:THR:CG2	1:IS:18:VAL:CG2	2.84	0.56
1:CI:18:VAL:HG22	1:HH:11:MET:HB3	1.86	0.56
1:CJ:25:ASP:HA	1:HI:88:VAL:HG21	1.88	0.56
2:PH:3:ILE:HG23	2:PH:77:ILE:CD1	2.36	0.56
1:AF:69:GLU:OE2	3:YO:775:CYS:HB2	2.04	0.56
1:BF:47:THR:HG23	1:IO:18:VAL:HG23	1.88	0.56
2:PM:3:ILE:HG23	2:PM:77:ILE:CD1	2.36	0.56
1:AZ:69:GLU:CD	3:YY:775:CYS:HB2	2.30	0.56
1:CV:62:ARG:HB3	2:PZ:21:HIS:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CY:25:ASP:HA	1:HX:88:VAL:HG21	1.88	0.56
2:PY:3:ILE:HG23	2:PY:77:ILE:CD1	2.36	0.56
1:Fb:35:LEU:HD23	1:Db:91:ILE:HG23	1.88	0.56
1:At:43:GLY:O	3:Yw:830:THR:HG22	2.05	0.56
1:Cv:18:VAL:HG22	1:Hu:11:MET:HB3	1.86	0.56
2:Px:3:ILE:HG23	2:Px:77:ILE:CD1	2.36	0.56
1:Ar:69:GLU:OE2	3:Yq:775:CYS:HB2	2.05	0.56
1:Br:47:THR:HG23	1:Iq:18:VAL:CG2	2.36	0.56
1:Cq:25:ASP:HA	1:Hp:88:VAL:HG21	1.88	0.56
2:Pq:3:ILE:HG23	2:Pq:77:ILE:CD1	2.36	0.56
1:DD:62:ARG:HH21	3:Xh:645:GLY:HA2	1.70	0.56
1:Fh:16:GLY:CA	1:Dh:13:GLU:OE1	2.54	0.56
1:CB:25:ASP:HA	1:HA:88:VAL:HG21	1.88	0.56
1:LB:80:ILE:CD1	3:XB:638:ILE:HG21	2.32	0.56
2:PB:3:ILE:HG23	2:PB:77:ILE:CD1	2.36	0.56
1:C4:25:ASP:HA	1:H3:88:VAL:HG21	1.88	0.56
1:D5:72:GLY:HA2	1:E9:77:ALA:HB2	1.87	0.56
1:E4:77:ALA:CB	1:DR:18:VAL:HG11	2.36	0.56
1:C0:18:VAL:HG22	1:H9:11:MET:HB3	1.86	0.56
2:PR:3:ILE:HG23	2:PR:77:ILE:CD1	2.36	0.56
3:XT:620:SER:O	1:Ja:62:ARG:HD3	2.06	0.56
1:BG:47:THR:HG23	1:IK:18:VAL:HG23	1.88	0.56
1:CH:25:ASP:HA	1:HG:88:VAL:HG21	1.88	0.56
2:PG:13:THR:OG1	2:PH:78:ASP:OD2	2.24	0.56
3:XG:643:TYR:CE1	1:DO:58:ASN:HB3	2.41	0.56
1:CO:25:ASP:HA	1:HN:88:VAL:HG21	1.88	0.56
1:HL:62:ARG:CA	3:YO:848:ILE:HD11	2.35	0.56
2:PL:3:ILE:HG23	2:PL:77:ILE:CD1	2.36	0.56
1:Ag:69:GLU:CD	3:Yf:775:CYS:HB2	2.30	0.56
1:Ee:85:HIS:CE1	1:Dc:28:THR:CG2	2.88	0.56
2:Pe:13:THR:OG1	2:Pf:78:ASP:OD2	2.24	0.56
1:AY:66:ASP:OD1	3:YX:792:ARG:NH2	2.33	0.56
1:Bc:47:THR:HG23	1:Ib:18:VAL:CG2	2.36	0.56
1:CU:62:ARG:HB3	2:Pd:21:HIS:HB3	1.87	0.56
2:Pc:13:THR:OG1	2:Pd:78:ASP:OD2	2.24	0.56
3:Xd:637:LEU:HA	3:Xd:649:THR:HG23	1.86	0.56
1:Jw:62:ARG:CZ	3:XM:624:SER:HB2	2.36	0.56
1:Fn:35:LEU:HD21	1:Dn:91:ILE:CG2	2.35	0.56
2:Pk:13:THR:OG1	2:Pl:78:ASP:OD2	2.24	0.56
1:Cj:62:ARG:HB3	2:Ps:21:HIS:HB3	1.87	0.56
2:Pj:41:ALA:HB2	2:Pj:62:ALA:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Om:80:ILE:O	3:Xm:716:PRO:HD3	2.06	0.56
1:BE:47:THR:CG2	1:ID:18:VAL:CG2	2.84	0.55
2:P1:3:ILE:HG23	2:P1:77:ILE:CD1	2.36	0.55
2:P3:3:ILE:HG23	2:P3:77:ILE:CD1	2.36	0.55
2:P4:14:ASN:HD21	2:P5:76:ILE:CB	2.16	0.55
2:P0:3:ILE:HG23	2:P0:77:ILE:CD1	2.36	0.55
2:P0:41:ALA:HB2	2:P0:62:ALA:HB2	1.88	0.55
1:EP:88:VAL:HG21	1:DN:25:ASP:HA	1.87	0.55
1:ET:58:ASN:HB2	3:YT:707:ILE:HD13	1.88	0.55
2:PQ:3:ILE:HG23	2:PQ:77:ILE:CD1	2.36	0.55
2:PT:3:ILE:HG23	2:PT:77:ILE:CD1	2.36	0.55
1:BK:47:THR:CG2	1:IJ:18:VAL:CG2	2.84	0.55
2:PJ:14:ASN:ND2	2:PK:76:ILE:CD1	2.68	0.55
2:PK:3:ILE:HG23	2:PK:77:ILE:CD1	2.36	0.55
3:XK:624:SER:HB2	1:Jm:62:ARG:NE	2.20	0.55
3:XK:643:TYR:CE1	1:Dm:59:ALA:N	2.74	0.55
1:AM:66:ASP:OD1	3:YL:792:ARG:NH2	2.33	0.55
1:CM:25:ASP:HA	1:HL:88:VAL:HG21	1.88	0.55
2:PL:76:ILE:CB	2:PF:14:ASN:HD21	2.17	0.55
1:CW:62:ARG:HB3	2:PV:21:HIS:HB3	1.87	0.55
1:Eb:58:ASN:HB2	3:Yb:707:ILE:HD13	1.87	0.55
1:Cu:62:ARG:HB3	2:Pt:21:HIS:HB3	1.87	0.55
1:Mt:82:ALA:HB3	1:Mk:30:ALA:O	2.05	0.55
1:Ov:85:HIS:CD2	1:Jv:28:THR:HG22	2.41	0.55
2:Pm:13:THR:OG1	2:Pn:78:ASP:OD2	2.24	0.55
1:Eq:58:ASN:HB2	3:Yq:707:ILE:HD13	1.87	0.55
1:DJ:11:MET:HG2	1:DJ:49:LEU:HD22	1.88	0.55
1:AC:69:GLU:CD	3:YB:775:CYS:HB2	2.30	0.55
1:BE:47:THR:HG23	1:ID:18:VAL:HG23	1.88	0.55
2:PC:3:ILE:HG23	2:PC:77:ILE:CD1	2.36	0.55
2:PE:3:ILE:HG23	2:PE:77:ILE:CD1	2.36	0.55
1:L5:66:ASP:HB2	3:X5:636:GLN:NE2	2.20	0.55
1:F7:28:THR:HG21	1:D7:87:GLU:HG2	1.85	0.55
3:X6:622:ASP:O	1:JQ:62:ARG:HD2	2.06	0.55
3:X6:624:SER:CB	1:JQ:62:ARG:NH2	2.61	0.55
1:AP:69:GLU:O	3:YS:841:PRO:CG	2.38	0.55
2:PP:13:THR:OG1	2:PQ:78:ASP:OD2	2.24	0.55
1:AG:69:GLU:C	3:YJ:841:PRO:HG3	2.28	0.55
1:JH:62:ARG:HD2	3:Xa:622:ASP:O	2.07	0.55
2:PI:3:ILE:HG23	2:PI:77:ILE:CD1	2.36	0.55
1:BF:47:THR:CG2	1:IO:18:VAL:CG2	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CM:62:ARG:HB3	2:PL:21:HIS:HB3	1.87	0.55
2:PF:3:ILE:HG23	2:PF:77:ILE:CD1	2.36	0.55
2:Pg:13:THR:OG1	2:Ph:78:ASP:OD2	2.24	0.55
1:AV:68:CYS:SG	1:AV:75:LEU:HD13	2.47	0.55
1:DX:59:ALA:HB2	3:Xo:643:TYR:HD1	1.71	0.55
1:OX:80:ILE:O	3:XX:716:PRO:HD3	2.06	0.55
1:Cu:25:ASP:HA	1:Ht:88:VAL:HG21	1.88	0.55
1:Hx:62:ARG:CA	3:Yv:848:ILE:HD11	2.32	0.55
1:Cr:62:ARG:HB3	2:Pq:21:HIS:HB3	1.88	0.55
1:LN:62:ARG:HB3	3:XN:633:GLY:CA	2.36	0.55
1:EC:85:HIS:CG	1:Dq:28:THR:HG22	2.41	0.55
1:C3:73:ASP:OD2	1:H2:45:TYR:OH	2.18	0.55
1:C4:62:ARG:HB3	2:P3:21:HIS:HB3	1.87	0.55
1:C5:18:VAL:HG22	1:H4:11:MET:HB3	1.87	0.55
2:P2:3:ILE:HG23	2:P2:77:ILE:CD1	2.36	0.55
1:D0:21:ILE:HG21	1:EQ:92:LEU:HD21	1.88	0.55
1:E0:91:ILE:HG21	1:DQ:35:LEU:HD21	1.88	0.55
2:P8:3:ILE:HG23	2:P8:77:ILE:CD1	2.36	0.55
3:X6:616:ILE:CD1	1:DQ:78:ALA:CB	2.85	0.55
1:CQ:25:ASP:HA	1:HP:88:VAL:HG21	1.88	0.55
1:AI:69:GLU:CD	3:YH:775:CYS:HB2	2.30	0.55
1:BK:47:THR:HG23	1:IJ:18:VAL:HG23	1.88	0.55
1:JM:62:ARG:HG2	3:X7:627:VAL:HG21	1.87	0.55
2:PN:3:ILE:HG23	2:PN:77:ILE:CD1	2.36	0.55
2:PO:3:ILE:HG23	2:PO:77:ILE:CD1	2.36	0.55
1:Ai:68:CYS:SG	1:Ai:75:LEU:HD13	2.47	0.55
1:Bi:47:THR:HG23	1:Ih:18:VAL:HG23	1.88	0.55
1:BX:47:THR:HG23	1:IW:18:VAL:CG2	2.36	0.55
1:EY:90:ASN:HB3	1:DI:97:GLN:C	2.31	0.55
1:Cv:73:ASP:OD2	1:Hu:45:TYR:OH	2.19	0.55
1:Dv:83:ARG:HH21	1:Jv:32:GLU:HG3	1.67	0.55
1:Fn:34:ARG:HA	1:Dn:87:GLU:CD	2.24	0.55
1:As:68:CYS:SG	1:As:75:LEU:HD13	2.47	0.55
1:BC:47:THR:HG23	1:IB:18:VAL:CG2	2.37	0.55
1:FD:72:GLY:HA2	1:DD:77:ALA:CB	2.27	0.55
3:XE:630:ASN:ND2	1:Jg:58:ASN:OD1	2.40	0.55
1:B3:47:THR:HG23	1:I2:18:VAL:CG2	2.36	0.55
1:D2:79:HIS:CB	3:Xg:617:SER:O	2.54	0.55
1:M3:82:ALA:HB3	1:Mf:30:ALA:O	2.06	0.55
2:P5:3:ILE:HG23	2:P5:77:ILE:CD1	2.36	0.55
1:A9:68:CYS:SG	1:A9:75:LEU:HD13	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J7:62:ARG:CZ	3:Xw:624:SER:HB2	2.36	0.55
1:L7:62:ARG:HH21	3:X7:644:VAL:HG22	1.63	0.55
3:X6:618:GLY:HA2	1:DQ:79:HIS:NE2	2.21	0.55
1:BR:47:THR:HG23	1:IQ:18:VAL:CG2	2.37	0.55
2:PP:14:ASN:HD21	2:PQ:76:ILE:CB	2.19	0.55
1:BI:47:THR:HG23	1:IH:18:VAL:CG2	2.37	0.55
1:FJ:28:THR:HG21	1:DJ:87:GLU:HB3	1.88	0.55
2:PI:13:THR:OG1	2:PJ:78:ASP:OD2	2.24	0.55
1:Mh:29:LYS:NZ	1:Lq:29:LYS:O	2.35	0.55
1:AV:43:GLY:O	3:YY:830:THR:HG22	2.05	0.55
1:CW:25:ASP:HA	1:HV:88:VAL:HG21	1.88	0.55
1:CX:62:ARG:HB3	2:PW:21:HIS:HB3	1.88	0.55
2:PZ:3:ILE:HG23	2:PZ:77:ILE:CD1	2.36	0.55
1:Ao:68:CYS:SG	1:Ao:75:LEU:HD13	2.47	0.55
1:Cm:62:ARG:HB3	2:Pl:21:HIS:HB3	1.88	0.55
1:Jj:79:HIS:HA	3:XX:628:THR:O	2.06	0.55
3:X7:643:TYR:CZ	1:DM:58:ASN:HB3	2.41	0.55
1:D6:58:ASN:HD21	1:D6:62:ARG:HH11	1.55	0.55
1:DB:32:GLU:HA	1:Lv:83:ARG:CZ	2.36	0.55
2:PA:14:ASN:HD21	2:PB:76:ILE:CB	2.19	0.55
1:A1:69:GLU:OE2	3:Y5:775:CYS:HB2	2.07	0.55
1:C1:62:ARG:HB3	2:P5:21:HIS:HB3	1.87	0.55
1:F4:28:THR:CG2	1:D4:87:GLU:HG2	2.23	0.55
1:J2:62:ARG:CZ	3:Xg:624:SER:H	2.20	0.55
1:A7:68:CYS:SG	1:A7:75:LEU:HD13	2.47	0.55
1:A8:68:CYS:SG	1:A8:75:LEU:HD13	2.47	0.55
1:AP:68:CYS:SG	1:AP:75:LEU:HD13	2.47	0.55
1:AT:68:CYS:SG	1:AT:75:LEU:HD13	2.47	0.55
1:AH:68:CYS:SG	1:AH:75:LEU:HD13	2.47	0.55
1:MJ:83:ARG:HD2	1:MY:31:ALA:O	2.06	0.55
2:PJ:3:ILE:HG23	2:PJ:77:ILE:CD1	2.36	0.55
1:AO:68:CYS:SG	1:AO:75:LEU:HD13	2.47	0.55
1:BL:91:ILE:HG22	1:IF:96:PRO:HB2	1.87	0.55
2:PN:13:THR:OG1	2:PO:78:ASP:OD2	2.24	0.55
1:Ah:68:CYS:SG	1:Ah:75:LEU:HD13	2.47	0.55
1:AV:69:GLU:C	3:YY:841:PRO:HG3	2.28	0.55
1:AW:68:CYS:SG	1:AW:75:LEU:HD13	2.47	0.55
1:DW:28:THR:CG2	1:Ej:87:GLU:OE1	2.55	0.55
1:HY:62:ARG:HG3	3:YW:848:ILE:CD1	2.24	0.55
1:Aa:43:GLY:O	3:Yd:830:THR:HG22	2.05	0.55
1:Aa:68:CYS:SG	1:Aa:75:LEU:HD13	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bt:47:THR:HG23	1:Ix:18:VAL:HG23	1.88	0.55
1:Bv:66:ASP:OD2	3:Yu:719:LEU:HB2	2.06	0.55
1:Bm:80:ILE:CD1	3:Yl:724:ILE:HD11	2.36	0.55
2:Pm:14:ASN:HD21	2:Pn:76:ILE:CB	2.19	0.55
1:Aj:68:CYS:SG	1:Aj:75:LEU:HD13	2.47	0.55
2:Pr:3:ILE:HG23	2:Pr:77:ILE:CD1	2.36	0.55
1:J6:79:HIS:HA	3:XN:628:THR:HG23	1.88	0.55
1:AB:68:CYS:SG	1:AB:75:LEU:HD13	2.47	0.55
1:AE:68:CYS:SG	1:AE:75:LEU:HD13	2.47	0.55
1:CA:72:GLY:HA2	1:HE:77:ALA:HB2	1.89	0.55
2:PC:13:THR:OG1	2:PD:78:ASP:OD2	2.24	0.55
1:A1:69:GLU:O	3:Y4:841:PRO:CG	2.38	0.55
1:B1:47:THR:HG23	1:I5:18:VAL:HG23	1.89	0.55
1:H4:62:ARG:HG3	3:Y2:848:ILE:CD1	2.24	0.55
1:A6:68:CYS:SG	1:A6:75:LEU:HD13	2.47	0.55
1:B6:47:THR:HG23	1:I0:18:VAL:HG23	1.88	0.55
1:BT:47:THR:HG23	1:IS:18:VAL:HG23	1.88	0.55
1:AK:68:CYS:SG	1:AK:75:LEU:HD13	2.47	0.55
1:CI:62:ARG:HB3	2:PH:21:HIS:HB3	1.88	0.55
2:PG:14:ASN:HD21	2:PH:76:ILE:CB	2.19	0.55
1:Cg:62:ARG:HB3	2:Pf:21:HIS:HB3	1.88	0.55
2:Pg:14:ASN:HD21	2:Ph:76:ILE:CB	2.19	0.55
1:DW:55:GLY:N	3:Xp:643:TYR:OH	2.37	0.55
1:FZ:79:HIS:CE1	3:XZ:726:GLY:HA2	2.42	0.55
1:Ac:68:CYS:SG	1:Ac:75:LEU:HD13	2.47	0.55
2:Pd:14:ASN:HD21	2:PU:76:ILE:CB	2.16	0.55
1:Ax:68:CYS:SG	1:Ax:75:LEU:HD13	2.47	0.55
1:Fw:18:VAL:CG2	1:Dw:11:MET:CE	2.82	0.55
1:An:68:CYS:SG	1:An:75:LEU:HD13	2.47	0.55
1:Ap:69:GLU:O	3:Ys:841:PRO:CG	2.38	0.55
1:Ar:69:GLU:O	3:Yp:841:PRO:CG	2.37	0.55
1:OI:80:ILE:O	3:XI:716:PRO:HD3	2.06	0.55
1:CC:62:ARG:HB3	2:PB:21:HIS:HB3	1.88	0.55
1:EC:91:ILE:HG21	1:Dq:35:LEU:HD21	1.88	0.55
1:B5:47:THR:CG2	1:I4:18:VAL:CG2	2.84	0.55
2:P1:13:THR:OG1	2:P2:78:ASP:OD2	2.24	0.55
1:C7:25:ASP:HA	1:H6:88:VAL:HG21	1.88	0.55
1:CP:72:GLY:HA2	1:HT:77:ALA:HB2	1.89	0.55
1:CS:25:ASP:HA	1:HR:88:VAL:HG21	1.88	0.55
1:CG:72:GLY:HA2	1:HK:77:ALA:HB2	1.89	0.55
1:HK:62:ARG:CA	3:YI:848:ILE:HD11	2.32	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:47:THR:HG23	1:IF:18:VAL:HG23	1.88	0.55
2:PF:41:ALA:HB2	2:PF:62:ALA:HB2	1.88	0.55
1:Ei:58:ASN:HB2	3:Yi:707:ILE:HD13	1.88	0.55
1:EX:92:LEU:CD2	1:Dn:21:ILE:HD13	2.37	0.55
2:Pd:3:ILE:HG23	2:Pd:77:ILE:CD1	2.36	0.55
2:Pt:3:ILE:HG23	2:Pt:77:ILE:CD1	2.36	0.55
1:Bo:47:THR:HG23	1:In:18:VAL:HG23	1.88	0.55
1:Cl:25:ASP:HA	1:Hk:88:VAL:HG21	1.88	0.55
1:Jn:62:ARG:CZ	3:XY:624:SER:CB	2.83	0.55
1:Ej:58:ASN:HB2	3:Yj:707:ILE:HD13	1.89	0.55
1:Jj:55:GLY:CA	3:XX:643:TYR:OH	2.53	0.55
1:Fq:25:ASP:HA	1:Dq:88:VAL:HG21	1.89	0.55
1:Dq:85:HIS:HB3	1:Dq:88:VAL:HG23	1.88	0.55
1:BC:66:ASP:OD2	3:YB:719:LEU:HB2	2.07	0.55
1:A1:68:CYS:SG	1:A1:75:LEU:HD13	2.47	0.55
1:E5:66:ASP:OD2	3:Y5:732:HIS:HA	2.07	0.55
1:F5:79:HIS:CE1	3:X5:726:GLY:HA2	2.42	0.55
1:B8:47:THR:HG23	1:I7:18:VAL:CG2	2.36	0.55
1:O9:80:ILE:O	3:X9:716:PRO:HD3	2.07	0.55
1:JH:62:ARG:NE	3:Xa:624:SER:HB2	2.21	0.55
1:Cf:25:ASP:HA	1:He:88:VAL:HG21	1.88	0.55
1:AZ:68:CYS:SG	1:AZ:75:LEU:HD13	2.47	0.55
1:DW:28:THR:HG22	1:Ej:85:HIS:CE1	2.41	0.55
1:Cd:25:ASP:HA	1:Hc:88:VAL:HG21	1.88	0.55
1:At:69:GLU:OE2	3:Yx:775:CYS:HB2	2.07	0.55
1:Av:68:CYS:SG	1:Av:75:LEU:HD13	2.47	0.55
1:Am:69:GLU:C	3:Yk:841:PRO:HG3	2.27	0.55
1:Ar:68:CYS:SG	1:Ar:75:LEU:HD13	2.47	0.55
2:Pp:64:SER:HB3	2:Pp:67:TYR:HB2	1.89	0.55
2:Pr:13:THR:OG1	2:Ps:78:ASP:OD2	2.24	0.55
1:DH:61:VAL:HG12	3:Xa:616:ILE:HD12	1.89	0.55
1:D6:55:GLY:HA2	3:XN:643:TYR:HE1	1.71	0.55
1:HE:62:ARG:CA	3:YC:848:ILE:HD11	2.33	0.55
1:H1:62:ARG:CA	3:Y4:848:ILE:HD11	2.35	0.55
1:N4:29:LYS:HB3	1:Db:29:LYS:HD3	1.87	0.55
1:C9:25:ASP:HA	1:H8:88:VAL:HG21	1.88	0.55
1:F7:25:ASP:HA	1:D7:88:VAL:CG2	2.35	0.55
1:AR:68:CYS:SG	1:AR:75:LEU:HD13	2.47	0.55
1:AS:68:CYS:SG	1:AS:75:LEU:HD13	2.47	0.55
1:EP:91:ILE:HG21	1:DN:35:LEU:CD2	2.37	0.55
1:Af:68:CYS:SG	1:Af:75:LEU:HD13	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EW:85:HIS:HE1	1:EW:87:GLU:OE2	1.89	0.55
1:Ad:68:CYS:SG	1:Ad:75:LEU:HD13	2.47	0.55
1:Ba:37:GLY:HA2	1:Ba:96:PRO:HA	1.89	0.55
1:Ca:72:GLY:HA2	1:HU:77:ALA:HB2	1.89	0.55
2:Pb:3:ILE:HG23	2:Pb:77:ILE:CD1	2.36	0.55
1:At:68:CYS:SG	1:At:75:LEU:HD13	2.47	0.55
1:Al:68:CYS:SG	1:Al:75:LEU:HD13	2.47	0.55
2:Pn:3:ILE:HG23	2:Pn:77:ILE:CD1	2.36	0.55
1:Ap:68:CYS:SG	1:Ap:75:LEU:HD13	2.47	0.55
1:Bj:47:THR:HG23	1:Is:18:VAL:HG23	1.88	0.55
1:Hp:62:ARG:CA	3:Ys:848:ILE:HD11	2.35	0.55
1:LN:62:ARG:HH21	3:XN:644:VAL:CG1	2.07	0.55
1:A4:68:CYS:SG	1:A4:75:LEU:HD13	2.47	0.55
1:AP:69:GLU:OE2	3:YT:775:CYS:HB2	2.07	0.55
1:AR:69:GLU:C	3:YP:841:PRO:HG3	2.27	0.55
1:BR:66:ASP:OD2	3:YQ:719:LEU:HB2	2.07	0.55
1:AI:68:CYS:SG	1:AI:75:LEU:HD13	2.47	0.55
1:AJ:69:GLU:CD	3:YI:775:CYS:HB2	2.32	0.55
1:CO:62:ARG:HB3	2:PN:21:HIS:HB3	1.87	0.55
1:JL:62:ARG:NH1	3:Xx:622:ASP:O	2.39	0.55
1:Af:69:GLU:CD	3:Ye:775:CYS:HB2	2.32	0.55
1:Ag:69:GLU:C	3:Ye:841:PRO:HG3	2.27	0.55
1:Eh:90:ASN:CB	1:Dp:97:GLN:HA	2.22	0.55
1:He:62:ARG:CA	3:Yh:848:ILE:HD11	2.35	0.55
2:Pf:3:ILE:HG23	2:Pf:77:ILE:CD1	2.36	0.55
1:FX:79:HIS:HA	3:XX:725:THR:O	2.07	0.55
1:Ab:68:CYS:SG	1:Ab:75:LEU:HD13	2.47	0.55
1:EU:87:GLU:HB2	1:DH:28:THR:HG21	1.88	0.55
2:Pa:64:SER:HB3	2:Pa:67:TYR:HB2	1.89	0.55
1:Aw:68:CYS:SG	1:Aw:75:LEU:HD13	2.47	0.55
1:Bx:47:THR:HG23	1:Iw:18:VAL:HG23	1.88	0.55
1:Ak:43:GLY:O	3:Yn:830:THR:HG22	2.05	0.55
1:Ak:68:CYS:SG	1:Ak:75:LEU:HD13	2.47	0.55
1:Jn:62:ARG:CZ	3:XY:624:SER:CA	2.85	0.55
2:Pl:3:ILE:HG23	2:Pl:77:ILE:CD1	2.36	0.55
1:Em:45:TYR:CZ	1:DJ:73:ASP:OD2	2.60	0.55
1:DU:85:HIS:HB3	1:DU:88:VAL:HG23	1.89	0.55
1:AC:68:CYS:SG	1:AC:75:LEU:HD13	2.47	0.54
1:C1:72:GLY:HA2	1:H5:77:ALA:HB2	1.89	0.54
1:C6:72:GLY:HA2	1:H0:77:ALA:HB2	1.89	0.54
1:J0:7:ILE:HG12	1:LR:32:GLU:OE1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EK:66:ASP:OD2	3:YK:732:HIS:HA	2.07	0.54
1:FK:79:HIS:CE1	3:XK:726:GLY:HA2	2.42	0.54
1:AL:68:CYS:SG	1:AL:75:LEU:HD13	2.47	0.54
1:AM:69:GLU:CD	3:YL:775:CYS:HB2	2.32	0.54
1:Ae:43:GLY:O	3:Yh:830:THR:HG22	2.06	0.54
1:Ae:68:CYS:SG	1:Ae:75:LEU:HD13	2.47	0.54
1:Ag:68:CYS:SG	1:Ag:75:LEU:HD13	2.47	0.54
1:Ce:72:GLY:HA2	1:Hi:77:ALA:HB2	1.89	0.54
2:Pe:14:ASN:HD21	2:Pf:76:ILE:CB	2.19	0.54
2:Pf:14:ASN:ND2	2:Pg:76:ILE:HD12	2.22	0.54
1:EZ:66:ASP:OD2	3:YZ:732:HIS:HA	2.07	0.54
2:PV:14:ASN:HD21	2:PW:76:ILE:CB	2.19	0.54
1:Ab:69:GLU:CD	3:Ya:775:CYS:HB2	2.32	0.54
1:Aw:69:GLU:CD	3:Yv:775:CYS:HB2	2.32	0.54
1:Bu:91:ILE:HD11	1:It:21:ILE:HD13	1.90	0.54
1:Al:69:GLU:CD	3:Yk:775:CYS:HB2	2.32	0.54
1:AA:68:CYS:SG	1:AA:75:LEU:HD13	2.47	0.54
1:AD:69:GLU:CD	3:YC:775:CYS:HB2	2.32	0.54
1:EA:91:ILE:HG21	1:D8:35:LEU:CD2	2.37	0.54
1:EC:88:VAL:HG21	1:Dq:25:ASP:CA	2.35	0.54
1:MC:83:ARG:HD2	1:Mu:31:ALA:O	2.06	0.54
1:A4:69:GLU:CD	3:Y3:775:CYS:HB2	2.32	0.54
1:M3:71:VAL:HG13	1:J3:79:HIS:CD2	2.41	0.54
1:AS:69:GLU:CD	3:YR:775:CYS:HB2	2.32	0.54
1:BQ:91:ILE:HD11	1:IP:21:ILE:HD13	1.89	0.54
1:JS:32:GLU:CG	1:DS:7:ILE:CD1	2.79	0.54
1:AG:68:CYS:SG	1:AG:75:LEU:HD13	2.47	0.54
1:EJ:88:VAL:HG21	1:Dm:25:ASP:HA	1.90	0.54
1:FJ:28:THR:HG21	1:DJ:87:GLU:CB	2.37	0.54
1:AL:69:GLU:OE2	3:YF:775:CYS:HB2	2.07	0.54
1:BM:91:ILE:HD11	1:IL:21:ILE:HD13	1.89	0.54
1:CN:62:ARG:HB3	2:PM:21:HIS:HB3	1.88	0.54
3:Xi:643:TYR:HE2	1:Dp:55:GLY:HA2	1.72	0.54
1:AW:69:GLU:CD	3:YV:775:CYS:HB2	2.32	0.54
1:AX:68:CYS:SG	1:AX:75:LEU:HD13	2.47	0.54
1:AX:69:GLU:C	3:YV:841:PRO:HG3	2.27	0.54
3:XZ:643:TYR:HD1	1:DI:59:ALA:HB2	1.71	0.54
1:Am:68:CYS:SG	1:Am:75:LEU:HD13	2.47	0.54
1:Ck:72:GLY:HA2	1:Ho:77:ALA:HB2	1.89	0.54
1:Do:25:ASP:HA	1:Es:88:VAL:HG21	1.90	0.54
1:Do:72:GLY:HA2	1:Es:77:ALA:HB2	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fo:79:HIS:CE1	3:Xo:726:GLY:HA2	2.42	0.54
1:Hk:62:ARG:CA	3:Yn:848:ILE:HD11	2.35	0.54
2:Pk:14:ASN:HD21	2:Pl:76:ILE:CB	2.19	0.54
1:DD:53:GLU:O	1:DD:54:THR:C	2.50	0.54
1:JY:30:ALA:O	1:DY:82:ALA:HB3	2.07	0.54
1:DF:7:ILE:HG12	1:JF:32:GLU:OE1	2.06	0.54
1:A3:68:CYS:SG	1:A3:75:LEU:HD13	2.47	0.54
1:F2:62:ARG:HB3	3:X2:719:LEU:O	2.08	0.54
2:P3:13:THR:OG1	2:P4:78:ASP:OD2	2.24	0.54
1:A6:69:GLU:OE2	3:Y0:775:CYS:HB2	2.07	0.54
1:A6:69:GLU:C	3:Y9:841:PRO:HG3	2.28	0.54
1:A7:69:GLU:CD	3:Y6:775:CYS:HB2	2.32	0.54
2:P6:13:THR:OG1	2:P7:78:ASP:OD2	2.24	0.54
2:P6:64:SER:HB3	2:P6:67:TYR:HB2	1.89	0.54
1:AQ:68:CYS:SG	1:AQ:75:LEU:HD13	2.47	0.54
1:ET:77:ALA:HB2	1:DG:72:GLY:HA2	1.90	0.54
1:AJ:68:CYS:SG	1:AJ:75:LEU:HD13	2.47	0.54
1:FH:62:ARG:HB3	3:XH:719:LEU:O	2.07	0.54
1:AM:68:CYS:SG	1:AM:75:LEU:HD13	2.47	0.54
1:BN:47:THR:HG23	1:IM:18:VAL:CG2	2.36	0.54
1:Bf:91:ILE:HD11	1:Ie:21:ILE:HD13	1.89	0.54
1:Lf:80:ILE:CD1	3:Xf:638:ILE:HG21	2.32	0.54
1:FW:62:ARG:HB3	3:XW:719:LEU:O	2.08	0.54
2:PV:13:THR:OG1	2:PW:78:ASP:OD2	2.24	0.54
1:Aa:69:GLU:OE2	3:YU:775:CYS:HB2	2.07	0.54
1:Od:80:ILE:O	3:Xd:716:PRO:HD3	2.07	0.54
2:Pu:14:ASN:ND2	2:Pv:76:ILE:HD12	2.22	0.54
3:Xv:694:PRO:CG	1:Jv:45:TYR:CE1	2.86	0.54
1:Ap:69:GLU:OE2	3:Yj:775:CYS:HB2	2.07	0.54
1:Bp:47:THR:HG23	1:Ij:18:VAL:HG23	1.88	0.54
1:EL:84:VAL:HG11	1:EL:92:LEU:HD11	1.89	0.54
1:Dh:31:ALA:HB3	1:Dh:60:ALA:HB2	1.90	0.54
1:AD:68:CYS:SG	1:AD:75:LEU:HD13	2.47	0.54
1:DC:79:HIS:CD2	3:Xr:617:SER:C	2.84	0.54
1:ED:91:ILE:CG2	1:Dg:35:LEU:HD23	2.37	0.54
3:XE:643:TYR:HE2	1:Dg:55:GLY:O	1.91	0.54
1:B3:80:ILE:CD1	3:Y2:724:ILE:HD11	2.36	0.54
1:B4:91:ILE:HD11	1:I3:21:ILE:HD13	1.89	0.54
2:P2:39:VAL:HG23	2:P3:1:MET:HE1	1.90	0.54
1:A0:68:CYS:SG	1:A0:75:LEU:HD13	2.47	0.54
1:A9:69:GLU:CD	3:Y8:775:CYS:HB2	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C6:73:ASP:OD2	1:H0:45:TYR:OH	2.20	0.54
1:BS:91:ILE:HD11	1:IR:21:ILE:HD13	1.89	0.54
1:HT:62:ARG:CA	3:YR:848:ILE:HD11	2.33	0.54
2:PR:13:THR:OG1	2:PS:78:ASP:OD2	2.24	0.54
1:BG:62:ARG:HB3	3:YK:720:ALA:HB3	1.88	0.54
1:HI:62:ARG:CA	3:YG:848:ILE:HD11	2.37	0.54
1:CM:79:HIS:HD2	3:YF:862:THR:OG1	1.91	0.54
1:Ae:69:GLU:C	3:Yh:841:PRO:HG3	2.28	0.54
1:Bg:66:ASP:OD2	3:Yf:719:LEU:HB2	2.07	0.54
1:AV:69:GLU:OE2	3:YZ:775:CYS:HB2	2.07	0.54
1:Ab:66:ASP:OD1	3:Ya:792:ARG:NH2	2.33	0.54
1:Bk:62:ARG:HB3	3:Yo:720:ALA:HB3	1.88	0.54
1:Bl:91:ILE:HD11	1:Ik:21:ILE:HD13	1.89	0.54
1:As:69:GLU:CD	3:Yr:775:CYS:HB2	2.33	0.54
1:AA:69:GLU:OE2	3:YE:775:CYS:HB2	2.07	0.54
1:AB:69:GLU:CD	3:YA:775:CYS:HB2	2.32	0.54
1:HC:62:ARG:CA	3:YA:848:ILE:HD11	2.37	0.54
1:A1:69:GLU:C	3:Y4:841:PRO:HG3	2.28	0.54
1:A2:68:CYS:SG	1:A2:75:LEU:HD13	2.47	0.54
1:A2:69:GLU:CD	3:Y1:775:CYS:HB2	2.32	0.54
1:N4:29:LYS:O	1:Db:29:LYS:CE	2.52	0.54
1:B7:91:ILE:HD11	1:I6:21:ILE:HD13	1.89	0.54
1:B9:91:ILE:HD11	1:I8:21:ILE:HD13	1.89	0.54
1:AG:69:GLU:OE2	3:YK:775:CYS:HB2	2.07	0.54
1:EH:88:VAL:HG21	1:DU:25:ASP:HA	1.89	0.54
1:BO:91:ILE:HD11	1:IN:21:ILE:HD13	1.89	0.54
2:PL:13:THR:OG1	2:PM:78:ASP:OD2	2.24	0.54
1:Ah:69:GLU:CD	3:Yg:775:CYS:HB2	2.32	0.54
3:Xi:620:SER:O	1:Jp:62:ARG:HD3	2.07	0.54
1:BX:80:ILE:CD1	3:YW:724:ILE:HD11	2.36	0.54
1:HY:80:ILE:HD12	3:YW:848:ILE:HG21	1.90	0.54
2:Pb:14:ASN:ND2	2:Pc:76:ILE:HD12	2.23	0.54
1:Aw:66:ASP:OD1	3:Yv:792:ARG:NH2	2.33	0.54
1:Bv:47:THR:HG23	1:Iu:18:VAL:CG2	2.37	0.54
1:Hw:62:ARG:HG2	3:Yu:848:ILE:HD11	1.83	0.54
1:An:69:GLU:CD	3:Ym:775:CYS:HB2	2.32	0.54
2:Pl:14:ASN:ND2	2:Pm:76:ILE:HD12	2.23	0.54
1:Jj:59:ALA:HB1	3:XX:619:THR:HB	1.89	0.54
1:Dh:7:ILE:HD12	1:Dh:83:ARG:HG3	1.88	0.54
1:D5:25:ASP:HA	1:E9:88:VAL:HG21	1.90	0.54
1:F3:79:HIS:HA	3:X3:725:THR:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D0:25:ASP:CA	1:EQ:88:VAL:HG21	2.38	0.54
1:D0:28:THR:HG21	1:EQ:87:GLU:OE1	2.08	0.54
1:EQ:79:HIS:CE1	3:YQ:704:GLY:HA2	2.43	0.54
2:PQ:14:ASN:ND2	2:PR:76:ILE:HD12	2.22	0.54
1:AH:69:GLU:CD	3:YG:775:CYS:HB2	2.32	0.54
1:LK:83:ARG:NH1	1:Dm:28:THR:O	2.39	0.54
1:AF:68:CYS:SG	1:AF:75:LEU:HD13	2.47	0.54
3:YL:704:GLY:HA3	1:EL:79:HIS:CE1	2.42	0.54
1:Ae:69:GLU:OE2	3:Yi:775:CYS:HB2	2.07	0.54
1:Bg:47:THR:HG23	1:If:18:VAL:CG2	2.37	0.54
1:Ef:79:HIS:CE1	3:Yf:704:GLY:HA2	2.43	0.54
1:BV:47:THR:HG23	1:IZ:18:VAL:HG23	1.88	0.54
1:DW:54:THR:C	3:Xp:643:TYR:OH	2.51	0.54
1:DZ:25:ASP:HA	1:Ed:88:VAL:HG21	1.90	0.54
2:PX:13:THR:OG1	2:PY:78:ASP:OD2	2.24	0.54
1:Hc:62:ARG:CA	3:Ya:848:ILE:HD11	2.37	0.54
1:Au:68:CYS:SG	1:Au:75:LEU:HD13	2.47	0.54
1:Ax:69:GLU:C	3:Yv:841:PRO:HG3	2.24	0.54
1:Ct:72:GLY:HA2	1:Hx:77:ALA:HB2	1.89	0.54
1:Hw:80:ILE:HD12	3:Yu:848:ILE:HG21	1.90	0.54
1:Bm:47:THR:HG23	1:Il:18:VAL:CG2	2.36	0.54
1:Fn:35:LEU:CB	1:Dn:87:GLU:OE1	2.55	0.54
3:Xl:719:LEU:O	1:Fl:62:ARG:HB3	2.08	0.54
3:Ym:705:ASN:HD22	1:Em:82:ALA:N	2.06	0.54
1:Cq:79:HIS:HD2	3:Yj:862:THR:OG1	1.91	0.54
1:Os:80:ILE:O	3:Xs:716:PRO:HD3	2.07	0.54
1:AE:69:GLU:C	3:YC:841:PRO:HG3	2.24	0.54
1:C2:79:HIS:HD2	3:Y5:862:THR:OG1	1.91	0.54
1:CQ:79:HIS:HD2	3:YT:862:THR:OG1	1.91	0.54
1:DK:25:ASP:HA	1:EO:88:VAL:HG21	1.90	0.54
1:FK:79:HIS:HA	3:XK:725:THR:O	2.08	0.54
2:PH:39:VAL:HG23	2:PI:1:MET:HE1	1.89	0.54
1:Be:47:THR:HG23	1:Ii:18:VAL:HG23	1.88	0.54
1:EX:79:HIS:HD1	1:Dn:71:VAL:CG1	2.20	0.54
1:FZ:79:HIS:HA	3:XZ:725:THR:O	2.08	0.54
3:XZ:616:ILE:HD12	1:DI:61:VAL:CG1	2.32	0.54
1:AU:68:CYS:SG	1:AU:75:LEU:HD13	2.47	0.54
2:Pt:13:THR:OG1	2:Pu:78:ASP:OD2	2.24	0.54
1:Cn:25:ASP:HA	1:Hm:88:VAL:HG21	1.88	0.54
1:Aq:68:CYS:SG	1:Aq:75:LEU:HD13	2.47	0.54
1:DM:6:GLY:HA3	1:DM:53:GLU:CA	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JY:32:GLU:HB2	1:DY:7:ILE:HG21	1.89	0.54
1:F5:79:HIS:HA	3:X5:725:THR:O	2.08	0.54
1:N4:30:ALA:O	1:E3:82:ALA:HB3	2.08	0.54
1:AQ:69:GLU:CD	3:YP:775:CYS:HB2	2.32	0.54
2:PQ:39:VAL:HG23	2:PR:1:MET:HE1	1.90	0.54
1:HO:62:ARG:HG2	3:YM:848:ILE:HD11	1.83	0.54
1:Eh:77:ALA:CB	1:Dp:18:VAL:HG11	2.38	0.54
2:Pf:39:VAL:HG23	2:Pg:1:MET:HE1	1.90	0.54
1:Ba:47:THR:HG23	1:IU:18:VAL:HG23	1.88	0.54
1:Bb:91:ILE:HD11	1:Ia:21:ILE:HD13	1.89	0.54
1:EU:58:ASN:HB2	3:YU:707:ILE:HD13	1.89	0.54
1:Hc:62:ARG:HG3	3:Ya:848:ILE:CD1	2.28	0.54
2:Pb:39:VAL:HG23	2:Pc:1:MET:HE1	1.90	0.54
1:Bw:91:ILE:HD11	1:Iv:21:ILE:HD13	1.89	0.54
1:Cu:79:HIS:HD2	3:Yx:862:THR:OG1	1.91	0.54
1:Ak:69:GLU:OE2	3:Yo:775:CYS:HB2	2.07	0.54
2:Pl:39:VAL:HG23	2:Pm:1:MET:HE1	1.90	0.54
1:Bs:91:ILE:HD11	1:Ir:21:ILE:HD13	1.89	0.54
2:Pp:13:THR:OG1	2:Pq:78:ASP:OD2	2.24	0.54
1:D4:55:GLY:HA2	3:XS:643:TYR:HH	1.73	0.54
3:X7:637:LEU:HA	3:X7:649:THR:HG23	1.89	0.54
1:Nm:72:GLY:HA2	1:Lm:77:ALA:CB	2.26	0.54
1:ED:91:ILE:HG21	1:Dg:35:LEU:HD23	1.90	0.54
2:PB:39:VAL:HG23	2:PC:1:MET:HE1	1.90	0.54
1:E7:91:ILE:CG2	1:Dv:35:LEU:HD23	2.38	0.54
1:H8:80:ILE:CD1	3:Y6:848:ILE:HG21	2.38	0.54
2:P7:14:ASN:ND2	2:P8:76:ILE:HD12	2.22	0.54
1:BP:47:THR:HG23	1:IT:18:VAL:HG23	1.88	0.54
1:BR:83:ARG:NH1	1:EQ:28:THR:O	2.41	0.54
1:ER:91:ILE:HG23	1:D4:35:LEU:HD23	1.89	0.54
1:HS:80:ILE:HD12	3:YQ:848:ILE:HG21	1.90	0.54
1:EJ:12:ILE:HG23	1:EJ:75:LEU:HD12	1.90	0.54
1:LJ:30:ALA:O	1:JY:82:ALA:HB3	2.08	0.54
2:PO:14:ASN:HD21	2:PF:76:ILE:CB	2.16	0.54
1:Bh:91:ILE:HD11	1:Ig:21:ILE:HD13	1.89	0.54
1:Ch:25:ASP:HA	1:Hg:88:VAL:HG21	1.88	0.54
1:Hh:80:ILE:HD12	3:Yf:848:ILE:HG21	1.90	0.54
1:Cb:79:HIS:HD2	3:YU:862:THR:OG1	1.91	0.54
1:Hd:80:ILE:HD12	3:Yb:848:ILE:HG21	1.89	0.54
1:Au:69:GLU:CD	3:Yt:775:CYS:HB2	2.32	0.54
1:Ct:25:ASP:CA	1:Hx:88:VAL:HG21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ht:62:ARG:CA	3:Yw:848:ILE:HD11	2.34	0.54
1:Ak:69:GLU:C	3:Yn:841:PRO:HG3	2.28	0.54
1:Bk:47:THR:HG23	1:Io:18:VAL:HG23	1.88	0.54
1:Fo:79:HIS:HA	3:Xo:725:THR:O	2.08	0.54
1:Aq:69:GLU:CD	3:Yp:775:CYS:HB2	2.33	0.54
1:Cs:79:HIS:HD2	3:Yq:862:THR:OG1	1.91	0.54
1:Ep:12:ILE:HG23	1:Ep:75:LEU:HD12	1.90	0.54
3:XC:643:TYR:HE1	1:Du:55:GLY:O	1.91	0.54
1:C4:79:HIS:HD2	3:Y2:862:THR:OG1	1.91	0.54
1:H1:62:ARG:HG2	3:Y4:848:ILE:HD11	1.83	0.54
1:B0:47:THR:HG23	1:I9:18:VAL:HG23	1.88	0.54
1:AK:69:GLU:C	3:YI:841:PRO:HG3	2.24	0.54
1:AO:69:GLU:CD	3:YN:775:CYS:HB2	2.32	0.54
1:Mf:83:ARG:NH1	1:Mc:28:THR:O	2.38	0.54
1:AY:68:CYS:SG	1:AY:75:LEU:HD13	2.47	0.54
1:CV:72:GLY:HA2	1:HZ:77:ALA:HB2	1.89	0.54
1:EX:12:ILE:HG23	1:EX:75:LEU:HD12	1.91	0.54
1:BU:91:ILE:HD11	1:Id:21:ILE:HD13	1.90	0.54
1:Ba:62:ARG:HB3	3:YU:720:ALA:HB3	1.90	0.54
2:Pa:13:THR:OG1	2:Pb:78:ASP:OD2	2.24	0.54
1:Jw:79:HIS:HD2	3:XM:628:THR:OG1	1.91	0.54
2:Pt:76:ILE:CB	2:Px:14:ASN:HD21	2.17	0.54
1:Fm:79:HIS:HA	3:Xm:725:THR:O	2.07	0.54
1:Hn:80:ILE:HD12	3:Yl:848:ILE:HG21	1.90	0.54
1:Bj:47:THR:CG2	1:Is:18:VAL:CG2	2.84	0.54
1:Jq:62:ARG:HG2	3:XD:627:VAL:HG21	1.89	0.54
2:Pr:14:ASN:HD21	2:Ps:76:ILE:CB	2.19	0.54
1:DM:58:ASN:HD21	1:DM:62:ARG:HH11	1.55	0.54
1:Jv:27:MET:HG2	1:Jv:60:ALA:O	2.07	0.54
1:EB:12:ILE:HG23	1:EB:75:LEU:HD12	1.90	0.53
1:ED:12:ILE:HG23	1:ED:75:LEU:HD12	1.90	0.53
3:XE:643:TYR:CE2	1:Dg:55:GLY:HA2	2.44	0.53
1:C7:79:HIS:HD2	3:Y0:862:THR:OG1	1.91	0.53
1:D0:28:THR:HG23	1:EQ:87:GLU:OE1	2.07	0.53
1:AP:69:GLU:C	3:YS:841:PRO:HG3	2.28	0.53
1:DP:97:GLN:HA	1:EN:90:ASN:CB	2.26	0.53
1:HQ:62:ARG:HG2	3:YT:848:ILE:HD11	1.81	0.53
1:HR:80:ILE:CD1	3:YP:848:ILE:HG21	2.38	0.53
2:PP:3:ILE:HG23	2:PP:77:ILE:CD1	2.36	0.53
1:BJ:91:ILE:HD11	1:II:21:ILE:HD13	1.89	0.53
1:EH:12:ILE:HG23	1:EH:75:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FI:79:HIS:HA	3:XI:725:THR:O	2.08	0.53
1:AN:68:CYS:SG	1:AN:75:LEU:HD13	2.47	0.53
1:CL:72:GLY:HA2	1:HF:77:ALA:HB2	1.89	0.53
1:Ce:25:ASP:CA	1:Hi:88:VAL:HG21	2.38	0.53
1:AY:69:GLU:CD	3:YX:775:CYS:HB2	2.32	0.53
1:CW:79:HIS:HD2	3:YZ:862:THR:OG1	1.91	0.53
1:Ad:69:GLU:CD	3:Yc:775:CYS:HB2	2.33	0.53
2:Pc:14:ASN:HD21	2:Pd:76:ILE:CB	2.19	0.53
1:Dv:83:ARG:CZ	1:Jv:32:GLU:HA	2.38	0.53
1:Hw:55:GLY:HA2	2:Pv:13:THR:HG21	1.91	0.53
1:An:66:ASP:OD1	3:Ym:792:ARG:NH2	2.33	0.53
1:Ap:69:GLU:C	3:Ys:841:PRO:HG3	2.28	0.53
1:Hs:62:ARG:HG3	3:Yq:848:ILE:CD1	2.24	0.53
1:Jq:80:ILE:CD1	3:XD:627:VAL:CG1	2.86	0.53
1:Dq:53:GLU:O	1:Dq:54:THR:C	2.50	0.53
1:DF:7:ILE:HD11	1:JF:32:GLU:CG	2.38	0.53
1:BD:91:ILE:HD11	1:IC:21:ILE:HD13	1.89	0.53
1:CD:79:HIS:HD2	3:YB:862:THR:OG1	1.91	0.53
1:D2:28:THR:HG22	1:Ef:85:HIS:CE1	2.43	0.53
1:B0:47:THR:CG2	1:I9:18:VAL:CG2	2.84	0.53
1:E0:58:ASN:HB2	3:Y0:707:ILE:HD13	1.89	0.53
1:H9:80:ILE:HD12	3:Y7:848:ILE:HG21	1.89	0.53
2:P8:14:ASN:HD21	2:P9:76:ILE:CB	2.19	0.53
2:P9:3:ILE:HG23	2:P9:77:ILE:CD1	2.36	0.53
3:X6:616:ILE:HD13	1:DQ:78:ALA:CB	2.38	0.53
1:CJ:79:HIS:HD2	3:YH:862:THR:OG1	1.91	0.53
1:OO:80:ILE:O	3:XO:716:PRO:HD3	2.07	0.53
3:YL:705:ASN:ND2	1:EL:82:ALA:N	2.50	0.53
1:Ah:66:ASP:OD1	3:Yg:792:ARG:NH2	2.33	0.53
1:DW:28:THR:O	1:Lp:83:ARG:NH1	2.41	0.53
1:Ec:12:ILE:HG23	1:Ec:75:LEU:HD12	1.90	0.53
1:Eu:79:HIS:CE1	3:Yu:704:GLY:HA2	2.43	0.53
1:Ov:88:VAL:CG2	1:Jv:25:ASP:HA	2.37	0.53
2:Pv:13:THR:OG1	2:Pw:78:ASP:OD2	2.24	0.53
3:Ym:705:ASN:ND2	1:Em:82:ALA:N	2.53	0.53
1:Es:12:ILE:HG23	1:Es:75:LEU:HD12	1.90	0.53
1:Hj:62:ARG:HG3	3:Yr:848:ILE:CD1	2.29	0.53
1:Hr:80:ILE:CD1	3:Yp:848:ILE:HG21	2.38	0.53
1:Hs:80:ILE:HD12	3:Yq:848:ILE:HG21	1.90	0.53
1:BE:61:VAL:HG12	3:YD:724:ILE:HD11	1.90	0.53
1:MD:83:ARG:HD2	1:Mq:31:ALA:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:68:CYS:SG	1:A5:75:LEU:HD13	2.47	0.53
1:B5:91:ILE:HD11	1:I4:21:ILE:HD13	1.91	0.53
1:E2:12:ILE:HG23	1:E2:75:LEU:HD12	1.90	0.53
1:H3:62:ARG:CA	3:Y1:848:ILE:HD11	2.36	0.53
1:J4:45:TYR:CE1	1:J4:76:VAL:HG21	2.44	0.53
2:P3:14:ASN:HD21	2:P4:76:ILE:CB	2.19	0.53
1:H9:55:GLY:HA2	2:P8:13:THR:HG21	1.91	0.53
1:JJ:45:TYR:CE1	1:JJ:76:VAL:HG21	2.44	0.53
2:PI:14:ASN:HD21	2:PJ:76:ILE:CB	2.19	0.53
1:CL:25:ASP:CA	1:HF:88:VAL:HG21	2.38	0.53
1:EM:12:ILE:HG23	1:EM:75:LEU:HD12	1.90	0.53
1:HF:62:ARG:CA	3:YN:848:ILE:HD11	2.33	0.53
1:HO:80:ILE:HD12	3:YM:848:ILE:HG21	1.90	0.53
3:YL:704:GLY:N	1:EL:79:HIS:CE1	2.77	0.53
3:Xi:624:SER:HB2	1:Jp:62:ARG:NE	2.24	0.53
1:BZ:91:ILE:HD11	1:IY:21:ILE:HD13	1.91	0.53
1:CY:79:HIS:HD2	3:YW:862:THR:OG1	1.91	0.53
1:HX:80:ILE:CD1	3:YV:848:ILE:HG21	2.38	0.53
1:HZ:62:ARG:CA	3:YX:848:ILE:HD11	2.33	0.53
2:PW:14:ASN:ND2	2:PX:76:ILE:HD12	2.23	0.53
1:EU:87:GLU:OE1	1:DH:28:THR:HG23	2.09	0.53
1:Hb:55:GLY:HA2	2:Pa:13:THR:HG21	1.91	0.53
1:Fw:18:VAL:CG2	1:Dw:11:MET:HE2	2.38	0.53
1:Eo:66:ASP:OD2	3:Yo:732:HIS:HA	2.07	0.53
1:Fn:71:VAL:HA	3:XY:617:SER:OG	2.09	0.53
2:Pq:39:VAL:HG23	2:Pr:1:MET:HE1	1.90	0.53
3:XX:643:TYR:CE1	1:Dj:55:GLY:HA2	2.43	0.53
3:Xm:638:ILE:HD13	1:Lm:80:ILE:HD12	1.90	0.53
1:HC:80:ILE:CD1	3:YA:848:ILE:HG21	2.38	0.53
1:HD:55:GLY:HA2	2:PC:13:THR:HG21	1.91	0.53
1:JA:45:TYR:CE1	1:JA:76:VAL:HG21	2.44	0.53
1:E4:12:ILE:HG23	1:E4:75:LEU:HD12	1.90	0.53
1:E5:12:ILE:HG23	1:E5:75:LEU:HD12	1.90	0.53
1:J7:45:TYR:CE1	1:J7:76:VAL:HG21	2.44	0.53
1:BT:61:VAL:HG12	3:YS:724:ILE:HD11	1.90	0.53
1:LT:30:ALA:O	1:Ja:82:ALA:HB3	2.08	0.53
1:HI:80:ILE:CD1	3:YG:848:ILE:HG21	2.39	0.53
1:HJ:55:GLY:HA2	2:PI:13:THR:HG21	1.91	0.53
1:JG:45:TYR:CE1	1:JG:76:VAL:HG21	2.44	0.53
1:EO:12:ILE:HG23	1:EO:75:LEU:HD12	1.90	0.53
1:JM:45:TYR:CE1	1:JM:76:VAL:HG21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JO:45:TYR:CE1	1:JO:76:VAL:HG21	2.44	0.53
2:PL:14:ASN:HD21	2:PM:76:ILE:CB	2.19	0.53
1:Hf:55:GLY:HA2	2:Pe:13:THR:HG21	1.91	0.53
1:EV:12:ILE:HG23	1:EV:75:LEU:HD12	1.91	0.53
1:Cd:79:HIS:HD2	3:Yb:862:THR:OG1	1.91	0.53
1:Ex:12:ILE:HG23	1:Ex:75:LEU:HD12	1.91	0.53
1:Hv:62:ARG:HG3	3:Yt:848:ILE:CD1	2.28	0.53
1:Jr:45:TYR:CE1	1:Jr:76:VAL:HG21	2.44	0.53
1:CB:79:HIS:HD2	3:YE:862:THR:OG1	1.91	0.53
1:DE:28:THR:HG22	1:E1:85:HIS:CE1	2.44	0.53
1:JD:45:TYR:CE1	1:JD:76:VAL:HG21	2.44	0.53
1:JE:45:TYR:CE1	1:JE:76:VAL:HG21	2.44	0.53
2:PC:14:ASN:HD21	2:PD:76:ILE:CB	2.19	0.53
1:A3:69:GLU:C	3:Y1:841:PRO:HG3	2.26	0.53
1:C1:25:ASP:CA	1:H5:88:VAL:HG21	2.38	0.53
1:D3:80:ILE:HD12	3:Xc:616:ILE:HG22	1.90	0.53
1:E1:12:ILE:HG23	1:E1:75:LEU:HD12	1.91	0.53
1:F4:35:LEU:HD23	1:D4:91:ILE:HG23	1.91	0.53
1:J1:45:TYR:CE1	1:J1:76:VAL:HG21	2.44	0.53
1:M1:83:ARG:HD2	1:M9:31:ALA:O	2.09	0.53
2:P2:14:ASN:ND2	2:P3:76:ILE:HD12	2.23	0.53
1:C9:79:HIS:HD2	3:Y7:862:THR:OG1	1.91	0.53
1:E7:66:ASP:OD2	3:Y7:732:HIS:HA	2.09	0.53
1:H8:62:ARG:HG3	3:Y6:848:ILE:CD1	2.28	0.53
1:J9:45:TYR:CE1	1:J9:76:VAL:HG21	2.44	0.53
1:CS:79:HIS:HD2	3:YQ:862:THR:OG1	1.91	0.53
1:JP:45:TYR:CE1	1:JP:76:VAL:HG21	2.44	0.53
1:JS:45:TYR:CE1	1:JS:76:VAL:HG21	2.44	0.53
1:BH:91:ILE:HD11	1:IG:21:ILE:HD13	1.89	0.53
1:HJ:80:ILE:HD12	3:YH:848:ILE:HG21	1.90	0.53
1:JK:45:TYR:CE1	1:JK:76:VAL:HG21	2.44	0.53
1:BL:62:ARG:HB3	3:YF:720:ALA:HB3	1.90	0.53
1:EM:66:ASP:OD2	3:YM:732:HIS:HA	2.09	0.53
1:HM:62:ARG:HG3	3:YF:848:ILE:CD1	2.26	0.53
2:PM:14:ASN:ND2	2:PN:76:ILE:HD12	2.22	0.53
1:Eg:85:HIS:CE1	1:DD:28:THR:HG22	2.39	0.53
1:Gf:11:MET:HG2	1:Gf:49:LEU:HD23	1.91	0.53
1:Ji:62:ARG:CZ	3:XW:624:SER:HB2	2.39	0.53
3:Xi:626:LEU:CD2	1:Jp:65:ALA:CA	2.81	0.53
1:JX:45:TYR:CE1	1:JX:76:VAL:HG21	2.44	0.53
1:JZ:45:TYR:CE1	1:JZ:76:VAL:HG21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ev:88:VAL:HG21	1:D7:25:ASP:OD1	2.08	0.53
1:Bn:91:ILE:HD11	1:Im:21:ILE:HD13	1.90	0.53
1:Gl:11:MET:HG2	1:Gl:49:LEU:HD23	1.91	0.53
1:Hl:55:GLY:HA2	2:Pk:13:THR:HG21	1.91	0.53
1:Cp:72:GLY:HA2	1:Hj:77:ALA:HB2	1.89	0.53
1:Jp:45:TYR:CE1	1:Jp:76:VAL:HG21	2.44	0.53
1:Jq:45:TYR:CE1	1:Jq:76:VAL:HG21	2.44	0.53
2:Pq:14:ASN:ND2	2:Pr:76:ILE:HD12	2.22	0.53
1:D7:80:ILE:H	3:Xw:618:GLY:HA3	1.73	0.53
1:Em:12:ILE:HG23	1:Em:75:LEU:HD12	1.90	0.53
1:EE:77:ALA:HB2	1:D1:72:GLY:HA2	1.90	0.53
1:JB:45:TYR:CE1	1:JB:76:VAL:HG21	2.44	0.53
1:M0:30:ALA:O	1:MR:82:ALA:HB3	2.08	0.53
1:FS:71:VAL:HG13	1:DS:79:HIS:HD2	1.74	0.53
1:CH:79:HIS:HD2	3:YK:862:THR:OG1	1.91	0.53
1:JH:45:TYR:CE1	1:JH:76:VAL:HG21	2.44	0.53
1:JJ:62:ARG:NH2	3:Xn:624:SER:CB	2.71	0.53
1:CO:79:HIS:HD2	3:YM:862:THR:OG1	1.91	0.53
1:EN:12:ILE:HG23	1:EN:75:LEU:HD12	1.91	0.53
1:HO:55:GLY:HA2	2:PN:13:THR:HG21	1.91	0.53
3:YF:704:GLY:CA	1:EF:79:HIS:CE1	2.92	0.53
1:Jg:45:TYR:CE1	1:Jg:76:VAL:HG21	2.44	0.53
1:DX:28:THR:HG22	1:En:85:HIS:CE1	2.43	0.53
1:DX:28:THR:HG21	1:En:87:GLU:OE1	2.09	0.53
1:MV:83:ARG:HD2	1:Md:31:ALA:O	2.09	0.53
2:PW:39:VAL:HG23	2:PX:1:MET:HE1	1.90	0.53
1:Ed:12:ILE:HG23	1:Ed:75:LEU:HD12	1.90	0.53
1:Ja:45:TYR:CE1	1:Ja:76:VAL:HG21	2.44	0.53
1:Dv:54:THR:O	3:X8:643:TYR:CZ	2.60	0.53
2:Pr:14:ASN:ND2	2:Ps:76:ILE:CD1	2.72	0.53
1:HD:80:ILE:HD12	3:YB:848:ILE:HG21	1.90	0.53
1:MC:29:LYS:NZ	1:Lr:29:LYS:O	2.41	0.53
1:H4:80:ILE:HD12	3:Y2:848:ILE:HG21	1.90	0.53
1:H6:62:ARG:HG2	3:Y9:848:ILE:HD11	1.83	0.53
2:P7:39:VAL:HG23	2:P8:1:MET:HE1	1.89	0.53
3:X6:643:TYR:CZ	1:DQ:58:ASN:HB3	2.44	0.53
1:EQ:58:ASN:HB2	3:YQ:707:ILE:HD13	1.91	0.53
1:ER:12:ILE:HG23	1:ER:75:LEU:HD12	1.90	0.53
1:JT:62:ARG:CZ	3:XH:624:SER:HB2	2.39	0.53
3:YR:703:THR:CG2	1:D4:71:VAL:HG12	2.39	0.53
1:HM:55:GLY:HA2	2:PL:13:THR:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HN:80:ILE:CD1	3:YL:848:ILE:HG21	2.38	0.53
2:PL:64:SER:HB3	2:PL:67:TYR:HB2	1.89	0.53
2:PM:39:VAL:HG23	2:PN:1:MET:HE1	1.90	0.53
1:Eh:12:ILE:HG23	1:Eh:75:LEU:HD12	1.90	0.53
1:EW:85:HIS:ND1	1:Dj:28:THR:HG21	2.24	0.53
1:JV:45:TYR:CE1	1:JV:76:VAL:HG21	2.44	0.53
1:EU:12:ILE:HG23	1:EU:75:LEU:HD12	1.91	0.53
1:Jd:45:TYR:CE1	1:Jd:76:VAL:HG21	2.44	0.53
1:Et:12:ILE:HG23	1:Et:75:LEU:HD12	1.90	0.53
1:Eu:12:ILE:HG23	1:Eu:75:LEU:HD12	1.90	0.53
1:Ev:84:VAL:HA	1:D7:29:LYS:HZ3	1.74	0.53
1:Ov:41:VAL:HG12	1:Jv:44:GLY:HA2	1.90	0.53
1:En:12:ILE:HG23	1:En:75:LEU:HD12	1.90	0.53
1:Fn:35:LEU:HD21	1:Dn:91:ILE:HG21	1.91	0.53
1:Js:45:TYR:CE1	1:Js:76:VAL:HG21	2.44	0.53
1:JY:45:TYR:CE1	1:JY:76:VAL:HG21	2.44	0.53
1:EL:15:ARG:HD2	1:EL:73:ASP:CB	2.39	0.53
1:JI:45:TYR:CE1	1:JI:76:VAL:HG21	2.44	0.53
3:Xm:627:VAL:HG21	1:JF:62:ARG:HG2	1.90	0.53
1:Jm:45:TYR:CE1	1:Jm:76:VAL:HG21	2.44	0.53
1:BB:91:ILE:HD11	1:IA:21:ILE:HD13	1.89	0.53
1:JE:62:ARG:CZ	3:X2:624:SER:HB2	2.39	0.53
2:PA:14:ASN:ND2	2:PB:76:ILE:CD1	2.72	0.53
1:H2:55:GLY:HA2	2:P1:13:THR:HG21	1.91	0.53
1:H4:55:GLY:HA2	2:P3:13:THR:HG21	1.91	0.53
1:H4:62:ARG:HG2	3:Y2:848:ILE:HD11	1.83	0.53
1:J2:45:TYR:CE1	1:J2:76:VAL:HG21	2.44	0.53
1:J2:62:ARG:HD2	3:Xg:623:ALA:HA	1.91	0.53
2:P1:76:ILE:CB	2:P5:14:ASN:HD21	2.17	0.53
1:C6:25:ASP:CA	1:H0:88:VAL:HG21	2.38	0.53
1:E8:12:ILE:HG23	1:E8:75:LEU:HD12	1.90	0.53
1:J8:45:TYR:CE1	1:J8:76:VAL:HG21	2.44	0.53
2:P8:14:ASN:ND2	2:P9:76:ILE:CD1	2.72	0.53
1:CR:73:ASP:OD2	1:HQ:45:TYR:OH	2.18	0.53
1:JT:45:TYR:CE1	1:JT:76:VAL:HG21	2.44	0.53
1:HJ:62:ARG:HG3	3:YH:848:ILE:CD1	2.24	0.53
2:PG:14:ASN:ND2	2:PH:76:ILE:CD1	2.72	0.53
1:Bg:83:ARG:NH1	1:Ef:28:THR:O	2.41	0.53
1:Ce:73:ASP:OD2	1:Hi:45:TYR:OH	2.20	0.53
1:Cf:79:HIS:HD2	3:Yi:862:THR:OG1	1.91	0.53
1:Hg:80:ILE:CD1	3:Ye:848:ILE:HG21	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JW:45:TYR:CE1	1:JW:76:VAL:HG21	2.44	0.53
1:Hc:80:ILE:CD1	3:Ya:848:ILE:HG21	2.38	0.53
1:La:58:ASN:OD1	3:Xa:644:VAL:HG13	2.09	0.53
1:MU:30:ALA:O	1:MI:82:ALA:HB3	2.09	0.53
1:Et:91:ILE:HG21	1:Dr:35:LEU:CD2	2.37	0.53
1:Ex:77:ALA:HB2	1:Dk:72:GLY:HA2	1.90	0.53
1:Hv:80:ILE:CD1	3:Yt:848:ILE:HG21	2.38	0.53
2:Pt:14:ASN:ND2	2:Pu:76:ILE:CD1	2.72	0.53
1:Bm:83:ARG:NH1	1:El:28:THR:O	2.41	0.53
1:Fh:16:GLY:HA3	1:Dh:13:GLU:OE1	2.09	0.53
1:DJ:33:VAL:HG12	1:DJ:52:GLY:HA3	1.90	0.53
1:Df:58:ASN:CG	1:Df:80:ILE:HD11	2.33	0.53
1:EB:79:HIS:CE1	3:YB:704:GLY:HA2	2.43	0.53
1:HB:55:GLY:HA2	2:PA:13:THR:HG21	1.91	0.53
1:F4:29:LYS:HG2	1:D4:85:HIS:HD2	1.46	0.53
1:G2:32:GLU:HB2	1:K2:7:ILE:HD11	1.91	0.53
1:E6:12:ILE:HG23	1:E6:75:LEU:HD12	1.90	0.53
1:ET:12:ILE:HG23	1:ET:75:LEU:HD12	1.91	0.53
1:HQ:62:ARG:HG3	3:YT:848:ILE:CD1	2.26	0.53
1:Jf:45:TYR:CE1	1:Jf:76:VAL:HG21	2.44	0.53
1:HY:55:GLY:HA2	2:PX:13:THR:HG21	1.91	0.53
1:JW:62:ARG:HD2	3:Xp:622:ASP:O	2.09	0.53
1:Bd:91:ILE:HD11	1:Ic:21:ILE:HD13	1.89	0.53
1:Ea:12:ILE:HG23	1:Ea:75:LEU:HD12	1.90	0.53
1:Eb:66:ASP:OD2	3:Yb:732:HIS:HA	2.09	0.53
1:Jt:45:TYR:CE1	1:Jt:76:VAL:HG21	2.44	0.53
1:Mt:31:ALA:O	1:Ms:83:ARG:HD2	2.09	0.53
2:Pu:39:VAL:HG23	2:Pv:1:MET:HE1	1.90	0.53
1:Cl:79:HIS:HD2	3:Yo:862:THR:OG1	1.91	0.53
1:Hm:80:ILE:CD1	3:Yk:848:ILE:HG21	2.38	0.53
1:Cp:25:ASP:CA	1:Hj:88:VAL:HG21	2.38	0.53
1:Jj:45:TYR:CE1	1:Jj:76:VAL:HG21	2.44	0.53
1:JF:45:TYR:CE1	1:JF:76:VAL:HG21	2.44	0.53
1:DB:25:ASP:OD1	1:Eu:88:VAL:HG21	2.08	0.53
1:HC:62:ARG:HG3	3:YA:848:ILE:CD1	2.28	0.53
1:HE:62:ARG:HG3	3:YC:848:ILE:CD1	2.29	0.53
2:PB:14:ASN:ND2	2:PC:76:ILE:HD12	2.22	0.53
2:P3:14:ASN:ND2	2:P4:76:ILE:CD1	2.72	0.53
1:A6:69:GLU:CD	3:Y0:775:CYS:HB2	2.34	0.53
1:E9:12:ILE:HG23	1:E9:75:LEU:HD12	1.90	0.53
1:J0:45:TYR:CE1	1:J0:76:VAL:HG21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CP:25:ASP:CA	1:HT:88:VAL:HG21	2.38	0.53
1:EP:11:MET:CB	1:DN:18:VAL:HG22	2.39	0.53
1:JQ:45:TYR:CE1	1:JQ:76:VAL:HG21	2.44	0.53
1:CG:25:ASP:CA	1:HK:88:VAL:HG21	2.38	0.53
1:HH:55:GLY:HA2	2:PG:13:THR:HG21	1.91	0.53
1:AL:69:GLU:CD	3:YF:775:CYS:HB2	2.34	0.53
1:BF:91:ILE:HD11	1:IO:21:ILE:HD13	1.90	0.53
1:CV:25:ASP:CA	1:HZ:88:VAL:HG21	2.38	0.53
1:CV:73:ASP:OD2	1:HZ:45:TYR:OH	2.20	0.53
3:YV:709:PRO:HB3	3:YV:718:MET:HA	1.91	0.53
1:Ev:12:ILE:HG23	1:Ev:75:LEU:HD12	1.91	0.53
1:Jx:62:ARG:CZ	3:Xl:624:SER:HB2	2.39	0.53
1:Gl:32:GLU:HB2	1:Kl:7:ILE:HD11	1.91	0.53
1:Jo:45:TYR:CE1	1:Jo:76:VAL:HG21	2.44	0.53
1:Er:12:ILE:HG23	1:Er:75:LEU:HD12	1.90	0.53
1:Hq:55:GLY:HA2	2:Pp:13:THR:HG21	1.91	0.53
3:X7:693:THR:HG22	3:X7:696:ARG:H	1.74	0.53
1:EA:11:MET:CB	1:D8:18:VAL:HG22	2.39	0.52
1:LD:62:ARG:HH11	3:XD:634:GLU:HA	1.74	0.52
1:D2:62:ARG:HG2	3:Xg:616:ILE:HG13	1.90	0.52
2:P1:14:ASN:ND2	2:P2:76:ILE:CD1	2.72	0.52
1:AP:69:GLU:CD	3:YT:775:CYS:HB2	2.34	0.52
1:MP:31:ALA:O	1:MO:83:ARG:HD2	2.10	0.52
1:HK:62:ARG:HG3	3:YI:848:ILE:CD1	2.29	0.52
1:HN:62:ARG:CA	3:YL:848:ILE:HD11	2.37	0.52
2:PL:14:ASN:ND2	2:PM:76:ILE:CD1	2.72	0.52
3:XL:725:THR:OG1	1:FL:78:ALA:O	2.18	0.52
1:Ee:12:ILE:HG23	1:Ee:75:LEU:HD12	1.90	0.52
1:Eg:12:ILE:HG23	1:Eg:75:LEU:HD12	1.91	0.52
1:Gf:32:GLU:HB2	1:Kf:7:ILE:HD11	1.92	0.52
1:Ji:45:TYR:CE1	1:Ji:76:VAL:HG21	2.44	0.52
2:PV:14:ASN:ND2	2:PW:76:ILE:CD1	2.72	0.52
1:Aa:69:GLU:CD	3:YU:775:CYS:HB2	2.34	0.52
1:Bc:83:ARG:NH1	1:Eb:28:THR:O	2.41	0.52
1:Cw:79:HIS:HD2	3:Yu:862:THR:OG1	1.91	0.52
1:Lw:62:ARG:HH11	3:Xw:634:GLU:HA	1.74	0.52
1:Ek:12:ILE:HG23	1:Ek:75:LEU:HD12	1.91	0.52
1:Fn:35:LEU:N	1:Dn:87:GLU:OE2	2.41	0.52
1:Ej:12:ILE:HG23	1:Ej:75:LEU:HD12	1.91	0.52
3:Xq:693:THR:HG22	3:Xq:696:ARG:H	1.75	0.52
1:DU:65:ALA:HA	1:DU:75:LEU:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:69:GLU:CD	3:YE:775:CYS:HB2	2.34	0.52
1:CA:25:ASP:CA	1:HE:88:VAL:HG21	2.38	0.52
1:HA:62:ARG:CA	3:YD:848:ILE:HD11	2.34	0.52
1:HD:62:ARG:HG3	3:YB:848:ILE:CD1	2.24	0.52
1:B2:91:ILE:HD11	1:I1:21:ILE:HD13	1.89	0.52
1:J5:45:TYR:CE1	1:J5:76:VAL:HG21	2.44	0.52
1:J0:62:ARG:HD2	3:XR:623:ALA:HA	1.91	0.52
1:EP:12:ILE:HG23	1:EP:75:LEU:HD12	1.91	0.52
1:AG:69:GLU:CD	3:YK:775:CYS:HB2	2.34	0.52
1:JL:45:TYR:CE1	1:JL:76:VAL:HG21	2.44	0.52
2:PF:39:VAL:HG21	2:PF:67:TYR:HE1	1.74	0.52
1:Bi:61:VAL:HG12	3:Yh:724:ILE:HD11	1.90	0.52
1:Ch:79:HIS:HD2	3:Yf:862:THR:OG1	1.91	0.52
1:Ee:11:MET:CB	1:Dc:18:VAL:HG22	2.39	0.52
1:Ef:12:ILE:HG23	1:Ef:75:LEU:HD12	1.90	0.52
1:BX:83:ARG:NH1	1:EW:28:THR:O	2.41	0.52
1:EW:12:ILE:HG23	1:EW:75:LEU:HD12	1.91	0.52
1:LX:28:THR:O	1:Jj:83:ARG:NH1	2.42	0.52
1:Ea:85:HIS:ND1	1:DS:28:THR:CG2	2.72	0.52
1:Ha:62:ARG:CA	3:Yd:848:ILE:HD11	2.34	0.52
1:Bx:61:VAL:HG12	3:Yw:724:ILE:HD11	1.90	0.52
1:Et:11:MET:CB	1:Dr:18:VAL:HG22	2.39	0.52
1:Ju:45:TYR:CE1	1:Ju:76:VAL:HG21	2.44	0.52
1:Cm:25:ASP:CA	1:Hl:88:VAL:HG21	2.39	0.52
2:Pm:14:ASN:ND2	2:Pn:76:ILE:CD1	2.72	0.52
1:Bp:62:ARG:HB3	3:Yj:720:ALA:HB3	1.90	0.52
1:Ep:85:HIS:CD2	1:Dh:28:THR:HG22	2.44	0.52
1:Fp:79:HIS:HA	3:Xp:725:THR:O	2.10	0.52
1:Hj:62:ARG:CA	3:Yr:848:ILE:HD11	2.33	0.52
1:FF:24:ALA:HB2	1:FF:48:VAL:HG11	1.91	0.52
1:GB:32:GLU:HB2	1:KB:7:ILE:HD11	1.91	0.52
1:NB:79:HIS:HA	3:YA:714:THR:O	2.09	0.52
3:XE:626:LEU:HD23	1:Jg:65:ALA:HB1	0.52	0.52
1:D3:79:HIS:CB	3:Xc:617:SER:O	2.56	0.52
1:H3:80:ILE:CD1	3:Y1:848:ILE:HG21	2.38	0.52
1:B8:83:ARG:NH1	1:E7:28:THR:O	2.41	0.52
1:N7:79:HIS:HA	3:Y6:714:THR:O	2.10	0.52
1:GH:32:GLU:HB2	1:KH:7:ILE:HD11	1.91	0.52
1:HG:62:ARG:CA	3:YJ:848:ILE:HD11	2.34	0.52
1:HI:62:ARG:HG3	3:YG:848:ILE:CD1	2.28	0.52
1:JN:45:TYR:CE1	1:JN:76:VAL:HG21	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BW:91:ILE:HD11	1:IV:21:ILE:HD13	1.89	0.52
2:PX:14:ASN:ND2	2:PY:76:ILE:CD1	2.72	0.52
1:Ca:25:ASP:CA	1:HU:88:VAL:HG21	2.38	0.52
1:Ea:81:ILE:HG21	1:DS:25:ASP:OD2	2.10	0.52
1:Jc:45:TYR:CE1	1:Jc:76:VAL:HG21	2.44	0.52
1:At:69:GLU:C	3:Yw:841:PRO:HG3	2.28	0.52
1:Mu:83:ARG:NH1	1:Mr:28:THR:O	2.38	0.52
1:Cn:79:HIS:HD2	3:Yl:862:THR:OG1	1.91	0.52
1:Jk:45:TYR:CE1	1:Jk:76:VAL:HG21	2.44	0.52
1:Jl:45:TYR:CE1	1:Jl:76:VAL:HG21	2.44	0.52
1:D4:11:MET:HG2	1:D4:49:LEU:HD23	1.91	0.52
1:Em:77:ALA:HB2	1:DJ:72:GLY:HA3	1.92	0.52
1:JU:45:TYR:CE1	1:JU:76:VAL:HG21	2.44	0.52
1:El:12:ILE:HG23	1:El:75:LEU:HD12	1.90	0.52
1:DB:41:VAL:HB	1:DB:45:TYR:HB2	1.91	0.52
1:MA:31:ALA:O	1:M9:83:ARG:HD2	2.10	0.52
1:MB:83:ARG:NH1	1:M8:28:THR:O	2.38	0.52
1:MC:31:ALA:O	1:Mr:83:ARG:HD2	2.09	0.52
1:G2:11:MET:HG2	1:G2:49:LEU:HD23	1.91	0.52
1:E0:12:ILE:HG23	1:E0:75:LEU:HD12	1.90	0.52
1:JR:45:TYR:CE1	1:JR:76:VAL:HG21	2.44	0.52
1:HL:62:ARG:HG2	3:YO:848:ILE:HD11	1.83	0.52
1:JL:7:ILE:HG12	1:Lx:32:GLU:OE1	2.09	0.52
1:Cg:25:ASP:CA	1:Hf:88:VAL:HG21	2.40	0.52
1:Je:45:TYR:CE1	1:Je:76:VAL:HG21	2.44	0.52
2:Pg:14:ASN:ND2	2:Ph:76:ILE:CD1	2.72	0.52
1:DX:35:LEU:CD2	1:En:91:ILE:HG21	2.37	0.52
1:EZ:12:ILE:HG23	1:EZ:75:LEU:HD12	1.90	0.52
1:HX:62:ARG:CA	3:YV:848:ILE:HD11	2.37	0.52
1:Ba:91:ILE:HD12	1:IU:21:ILE:HD13	1.91	0.52
1:Jb:45:TYR:CE1	1:Jb:76:VAL:HG21	2.44	0.52
1:Du:85:HIS:HB3	1:Du:88:VAL:HG23	1.90	0.52
1:Eu:58:ASN:HB2	3:Yu:707:ILE:HD13	1.91	0.52
1:Am:91:ILE:HD13	1:Bm:35:LEU:HD21	1.92	0.52
2:Pk:16:ILE:HD11	2:Pk:68:PRO:HG3	1.92	0.52
1:Bq:91:ILE:HD11	1:Ip:21:ILE:HD13	1.89	0.52
1:Eq:66:ASP:OD2	3:Yq:732:HIS:HA	2.09	0.52
3:XX:616:ILE:HD12	1:Dj:61:VAL:HG12	1.90	0.52
1:Db:25:ASP:HA	1:E3:88:VAL:HG21	1.91	0.52
1:Lm:58:ASN:HA	1:Lm:80:ILE:HD13	1.91	0.52
1:EC:85:HIS:HB2	1:Dq:29:LYS:CG	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B6:62:ARG:HB3	3:Y0:720:ALA:HB3	1.90	0.52
1:D0:35:LEU:CD2	1:EQ:91:ILE:CG2	2.87	0.52
1:EQ:12:ILE:HG23	1:EQ:75:LEU:HD12	1.90	0.52
1:GQ:32:GLU:HB2	1:KQ:7:ILE:HD11	1.91	0.52
1:EG:12:ILE:HG23	1:EG:75:LEU:HD12	1.91	0.52
2:PH:14:ASN:ND2	2:PI:76:ILE:HD12	2.23	0.52
1:BF:47:THR:HG23	1:IO:18:VAL:CG2	2.40	0.52
1:GF:36:VAL:HG11	1:GF:51:ARG:HD3	1.92	0.52
1:Me:31:ALA:O	1:Md:83:ARG:HD2	2.09	0.52
1:HW:55:GLY:HA2	2:PV:13:THR:HG21	1.91	0.52
1:BU:47:THR:HG23	1:Id:18:VAL:CG2	2.40	0.52
1:Dx:28:THR:HG22	1:Ek:85:HIS:CE1	2.44	0.52
1:Ew:12:ILE:HG23	1:Ew:75:LEU:HD12	1.90	0.52
1:Jw:45:TYR:CE1	1:Jw:76:VAL:HG21	2.44	0.52
2:Pv:14:ASN:ND2	2:Pw:76:ILE:CD1	2.72	0.52
1:Bj:47:THR:HG23	1:Is:18:VAL:CG2	2.40	0.52
1:Gj:36:VAL:HG11	1:Gj:51:ARG:HD3	1.92	0.52
1:Jj:80:ILE:HD12	3:XX:627:VAL:HG12	1.90	0.52
2:Pp:14:ASN:ND2	2:Pq:76:ILE:CD1	2.72	0.52
1:D4:19:PRO:HG3	1:D4:72:GLY:HA3	1.90	0.52
1:LN:62:ARG:HB3	3:XN:633:GLY:HA3	1.91	0.52
1:Dh:22:GLU:HG2	1:Dh:71:VAL:HG21	1.91	0.52
1:Dq:11:MET:HE1	1:Dq:81:ILE:HG13	1.91	0.52
1:FF:34:ARG:HG2	1:FF:51:ARG:O	2.10	0.52
1:EA:12:ILE:HG23	1:EA:75:LEU:HD12	1.90	0.52
2:PC:14:ASN:ND2	2:PD:76:ILE:CD1	2.72	0.52
1:G0:36:VAL:HG11	1:G0:51:ARG:HD3	1.92	0.52
1:BT:91:ILE:HD11	1:IS:21:ILE:HD13	1.90	0.52
1:ER:13:GLU:OE1	1:D4:16:GLY:HA3	2.10	0.52
1:HQ:55:GLY:HA2	2:PP:13:THR:HG21	1.91	0.52
2:PQ:51:LEU:O	2:PQ:74:ILE:HG12	2.10	0.52
2:PN:14:ASN:ND2	2:PO:76:ILE:CD1	2.72	0.52
1:Di:28:THR:HG22	1:EV:85:HIS:CE1	2.44	0.52
1:Gf:36:VAL:O	1:Gf:96:PRO:HA	2.10	0.52
1:EW:49:LEU:HD22	1:EW:93:PRO:HD2	1.91	0.52
1:EY:77:ALA:HB2	1:DI:72:GLY:HA2	1.91	0.52
1:Eb:12:ILE:HG23	1:Eb:75:LEU:HD12	1.90	0.52
1:Av:69:GLU:C	3:Yt:841:PRO:HG3	2.26	0.52
1:Ck:25:ASP:CA	1:Ho:88:VAL:HG21	2.38	0.52
1:Hm:62:ARG:CA	3:Yk:848:ILE:HD11	2.37	0.52
1:Hn:55:GLY:HA2	2:Pm:13:THR:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ar:69:GLU:C	3:Yp:841:PRO:HG3	2.26	0.52
1:DD:58:ASN:O	1:DD:62:ARG:HG3	2.10	0.52
3:XD:643:TYR:CE1	1:Dq:58:ASN:HB3	2.45	0.52
1:DJ:14:THR:HA	1:DJ:75:LEU:HA	1.92	0.52
1:DB:12:ILE:HD12	1:DB:27:MET:HE3	1.92	0.52
1:N1:12:ILE:HD12	1:N1:27:MET:SD	2.50	0.52
3:Y1:709:PRO:HB3	3:Y1:718:MET:HA	1.91	0.52
1:E7:12:ILE:HG23	1:E7:75:LEU:HD12	1.90	0.52
1:DT:28:THR:HG22	1:EG:85:HIS:CE1	2.44	0.52
1:GQ:66:ASP:HA	3:YP:784:ARG:NH2	2.25	0.52
1:BI:79:HIS:HA	3:YH:725:THR:O	2.10	0.52
2:PI:14:ASN:ND2	2:PJ:76:ILE:CD1	2.72	0.52
1:Ae:69:GLU:CD	3:Yi:775:CYS:HB2	2.34	0.52
1:Ei:77:ALA:HB2	1:DV:72:GLY:HA2	1.90	0.52
1:Hh:55:GLY:HA2	2:Pg:13:THR:HG21	1.91	0.52
1:Nh:12:ILE:HD12	1:Nh:27:MET:SD	2.50	0.52
2:Pe:14:ASN:ND2	2:Pf:76:ILE:CD1	2.72	0.52
1:AV:69:GLU:CD	3:YZ:775:CYS:HB2	2.34	0.52
1:BZ:47:THR:HG23	1:IY:18:VAL:CG2	2.40	0.52
1:GW:66:ASP:HA	3:YV:784:ARG:NH2	2.25	0.52
1:HX:80:ILE:HD12	3:YV:848:ILE:HG21	1.92	0.52
1:NW:12:ILE:HD12	1:NW:27:MET:SD	2.50	0.52
2:PW:59:ARG:HH22	2:PX:60:GLU:HB2	1.75	0.52
1:Ea:92:LEU:HD21	1:DS:21:ILE:HD13	1.92	0.52
2:Pa:14:ASN:ND2	2:Pb:76:ILE:CD1	2.72	0.52
1:At:69:GLU:CD	3:Yx:775:CYS:HB2	2.34	0.52
1:Gu:11:MET:HG2	1:Gu:49:LEU:HD23	1.91	0.52
1:Gu:32:GLU:HB2	1:Ku:7:ILE:HD11	1.91	0.52
1:Hv:80:ILE:HD12	3:Yt:848:ILE:HG21	1.92	0.52
1:Hx:62:ARG:HG3	3:Yv:848:ILE:CD1	2.29	0.52
1:Jx:45:TYR:CE1	1:Jx:76:VAL:HG21	2.44	0.52
2:Pt:14:ASN:HD21	2:Pu:76:ILE:CB	2.19	0.52
1:Ak:69:GLU:CD	3:Yo:775:CYS:HB2	2.34	0.52
1:Hl:68:CYS:SG	1:Hl:75:LEU:HD13	2.50	0.52
1:Nn:12:ILE:HD12	1:Nn:27:MET:SD	2.50	0.52
3:Yk:709:PRO:HB3	3:Yk:718:MET:HA	1.91	0.52
1:Ep:91:ILE:HG21	1:Dh:35:LEU:CD2	2.39	0.52
1:LN:62:ARG:HH11	3:XN:634:GLU:HA	1.72	0.52
1:El:91:ILE:HG21	1:DF:35:LEU:HD21	1.92	0.52
1:DC:58:ASN:CG	3:Xr:643:TYR:CD1	2.87	0.52
1:FD:35:LEU:CD2	1:DD:91:ILE:CG2	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GB:11:MET:HG2	1:GB:49:LEU:HD23	1.91	0.52
1:NE:12:ILE:HD12	1:NE:27:MET:SD	2.50	0.52
1:C3:25:ASP:CA	1:H2:88:VAL:HG21	2.40	0.52
1:H2:68:CYS:SG	1:H2:75:LEU:HD13	2.50	0.52
1:H3:80:ILE:HD12	3:Y1:848:ILE:HG21	1.92	0.52
1:H4:68:CYS:SG	1:H4:75:LEU:HD13	2.50	0.52
1:H5:68:CYS:SG	1:H5:75:LEU:HD13	2.50	0.52
1:N3:12:ILE:HD12	1:N3:27:MET:SD	2.50	0.52
1:H6:62:ARG:CA	3:Y9:848:ILE:HD11	2.35	0.52
2:P6:14:ASN:ND2	2:P7:76:ILE:CD1	2.72	0.52
2:P7:14:ASN:O	3:Y6:851:SER:HB3	2.10	0.52
1:GQ:11:MET:HG2	1:GQ:49:LEU:HD23	1.91	0.52
1:NQ:79:HIS:HA	3:YP:714:THR:O	2.09	0.52
2:PR:14:ASN:ND2	2:PS:76:ILE:CD1	2.72	0.52
1:MG:83:ARG:HD2	1:MO:31:ALA:O	2.09	0.52
1:MH:31:ALA:O	1:Ma:83:ARG:HD2	2.09	0.52
1:EM:87:GLU:OE1	1:D6:28:THR:CG2	2.58	0.52
1:NO:12:ILE:HD12	1:NO:27:MET:SD	2.50	0.52
1:Bi:47:THR:HG23	1:Ih:18:VAL:CG2	2.40	0.52
1:Hf:68:CYS:SG	1:Hf:75:LEU:HD13	2.50	0.52
1:BY:91:ILE:HD11	1:IX:21:ILE:HD13	1.90	0.52
1:Nd:12:ILE:HD12	1:Nd:27:MET:SD	2.50	0.52
2:Pc:14:ASN:ND2	2:Pd:76:ILE:CD1	2.72	0.52
1:Dv:58:ASN:CB	3:X8:643:TYR:CD1	2.73	0.52
1:Ev:85:HIS:CG	1:D7:28:THR:CB	2.93	0.52
1:Hu:55:GLY:HA2	2:Pt:13:THR:HG21	1.91	0.52
1:Hu:68:CYS:SG	1:Hu:75:LEU:HD13	2.50	0.52
1:Mx:30:ALA:O	1:Ml:82:ALA:HB3	2.10	0.52
1:Nt:12:ILE:HD12	1:Nt:27:MET:SD	2.50	0.52
1:Fn:28:THR:HG21	1:Dn:87:GLU:HB2	1.91	0.52
1:Hm:68:CYS:SG	1:Hm:75:LEU:HD13	2.50	0.52
2:Pk:14:ASN:ND2	2:Pl:76:ILE:CD1	2.72	0.52
1:J3:62:ARG:NH2	3:Xc:624:SER:HB2	2.25	0.52
1:CC:25:ASP:CA	1:HB:88:VAL:HG21	2.40	0.52
1:ND:12:ILE:HD12	1:ND:27:MET:SD	2.50	0.52
1:A1:69:GLU:CD	3:Y5:775:CYS:HB2	2.34	0.52
1:B3:83:ARG:NH1	1:E2:28:THR:O	2.41	0.52
1:M5:83:ARG:HD2	1:MR:31:ALA:O	2.09	0.52
1:D0:28:THR:CG2	1:EQ:85:HIS:CE1	2.93	0.52
1:CR:25:ASP:CA	1:HQ:88:VAL:HG21	2.40	0.52
1:FS:17:LEU:CD2	1:DS:39:GLN:HE21	1.85	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MS:31:ALA:O	1:Mb:83:ARG:HD2	2.09	0.52
1:NK:12:ILE:HD12	1:NK:27:MET:SD	2.50	0.52
2:PH:14:ASN:O	3:YG:851:SER:HB3	2.10	0.52
1:DL:97:GLN:CA	1:Ew:90:ASN:HB3	2.26	0.52
1:HF:68:CYS:SG	1:HF:75:LEU:HD13	2.50	0.52
1:HM:68:CYS:SG	1:HM:75:LEU:HD13	2.50	0.52
1:HN:68:CYS:SG	1:HN:75:LEU:HD13	2.50	0.52
1:Ei:12:ILE:HG23	1:Ei:75:LEU:HD12	1.91	0.52
1:Hg:68:CYS:SG	1:Hg:75:LEU:HD13	2.50	0.52
1:DW:55:GLY:O	3:Xp:643:TYR:CZ	2.59	0.52
1:MW:30:ALA:O	1:Mp:82:ALA:HB3	2.10	0.52
2:PV:16:ILE:HD11	2:PV:68:PRO:HG3	1.92	0.52
1:Hc:68:CYS:SG	1:Hc:75:LEU:HD13	2.50	0.52
1:Nw:12:ILE:HD12	1:Nw:27:MET:SD	2.50	0.52
1:Bo:47:THR:HG23	1:In:18:VAL:CG2	2.40	0.52
1:Eo:12:ILE:HG23	1:Eo:75:LEU:HD12	1.91	0.52
1:Gl:66:ASP:HA	3:Yk:784:ARG:NH2	2.25	0.52
1:Ho:55:GLY:HA2	2:Pn:13:THR:HG21	1.92	0.52
1:Jn:45:TYR:CE1	1:Jn:76:VAL:HG21	2.44	0.52
1:Cr:25:ASP:CA	1:Hq:88:VAL:HG21	2.40	0.52
1:Nj:12:ILE:HD12	1:Nj:27:MET:SD	2.50	0.52
1:J6:79:HIS:CA	3:XN:628:THR:CG2	2.87	0.52
3:XX:616:ILE:HA	1:Dj:78:ALA:O	2.10	0.52
1:DH:96:PRO:O	1:DH:97:GLN:C	2.51	0.52
1:NB:12:ILE:HD12	1:NB:27:MET:SD	2.50	0.52
2:PB:14:ASN:O	3:YA:851:SER:HB3	2.10	0.52
1:B3:79:HIS:HA	3:Y2:725:THR:O	2.10	0.52
1:L5:66:ASP:OD1	3:X5:636:GLN:NE2	2.39	0.52
1:D0:80:ILE:HD12	3:XR:616:ILE:HG21	1.66	0.52
1:O8:80:ILE:O	3:X8:716:PRO:HD3	2.10	0.52
1:ES:12:ILE:HG23	1:ES:75:LEU:HD12	1.90	0.52
1:HS:68:CYS:SG	1:HS:75:LEU:HD13	2.50	0.52
1:MT:30:ALA:O	1:MH:82:ALA:HB3	2.10	0.52
1:CI:25:ASP:CA	1:HH:88:VAL:HG21	2.40	0.52
1:GH:11:MET:HG2	1:GH:49:LEU:HD23	1.91	0.52
1:NJ:12:ILE:HD12	1:NJ:27:MET:SD	2.50	0.52
2:PJ:14:ASN:O	3:YI:851:SER:HB3	2.10	0.52
3:XK:628:THR:OG1	1:Jm:78:ALA:O	2.28	0.52
3:YG:709:PRO:HB3	3:YG:718:MET:HA	1.91	0.52
1:Ef:58:ASN:HB2	3:Yf:707:ILE:HD13	1.91	0.52
1:Gf:66:ASP:HA	3:Ye:784:ARG:NH2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hg:62:ARG:CA	3:Ye:848:ILE:HD11	2.37	0.52
1:Jh:45:TYR:CE1	1:Jh:76:VAL:HG21	2.44	0.52
1:Nf:12:ILE:HD12	1:Nf:27:MET:SD	2.50	0.52
1:HU:68:CYS:SG	1:HU:75:LEU:HD13	2.50	0.52
1:Nb:12:ILE:HD12	1:Nb:27:MET:SD	2.50	0.52
1:Nc:12:ILE:HD12	1:Nc:27:MET:SD	2.50	0.52
1:Oc:80:ILE:O	3:Xc:716:PRO:HD3	2.10	0.52
1:Hx:68:CYS:SG	1:Hx:75:LEU:HD13	2.50	0.52
2:Pu:51:LEU:O	2:Pu:74:ILE:HG12	2.10	0.52
1:Ap:69:GLU:CD	3:Yj:775:CYS:HB2	2.34	0.52
1:Hp:68:CYS:SG	1:Hp:75:LEU:HD13	2.50	0.52
1:Ns:12:ILE:HD12	1:Ns:27:MET:SD	2.50	0.52
1:Jv:85:HIS:ND1	1:Jv:87:GLU:HB2	2.24	0.52
1:BE:91:ILE:HD11	1:ID:21:ILE:HD13	1.90	0.51
1:EB:77:ALA:CB	1:Du:18:VAL:HG11	2.40	0.51
2:PB:51:LEU:O	2:PB:74:ILE:HG12	2.10	0.51
3:XE:624:SER:HB2	1:Jg:62:ARG:NE	2.25	0.51
1:E2:77:ALA:HB1	1:Df:18:VAL:HG11	1.92	0.51
1:E5:79:HIS:HA	3:Y5:703:THR:O	2.10	0.51
1:G2:36:VAL:O	1:G2:96:PRO:HA	2.10	0.51
1:J2:43:GLY:HA2	3:X2:693:THR:HG23	1.92	0.51
2:P2:59:ARG:HH22	2:P3:60:GLU:HB2	1.75	0.51
1:H7:68:CYS:SG	1:H7:75:LEU:HD13	2.50	0.51
1:M6:82:ALA:HB3	1:MQ:30:ALA:O	2.09	0.51
1:BI:83:ARG:NH1	1:EH:28:THR:O	2.41	0.51
1:NH:12:ILE:HD12	1:NH:27:MET:SD	2.50	0.51
2:PH:59:ARG:HH22	2:PI:60:GLU:HB2	1.75	0.51
1:NM:12:ILE:HD12	1:NM:27:MET:SD	2.50	0.51
1:Bh:83:ARG:NH1	1:Eg:28:THR:O	2.43	0.51
1:Ng:12:ILE:HD12	1:Ng:27:MET:SD	2.50	0.51
2:Pf:14:ASN:O	3:Ye:851:SER:HB3	2.10	0.51
1:EX:79:HIS:CE1	1:Dn:22:GLU:CD	2.82	0.51
1:EY:12:ILE:HG23	1:EY:75:LEU:HD12	1.90	0.51
1:HX:68:CYS:SG	1:HX:75:LEU:HD13	2.50	0.51
1:Nb:79:HIS:HA	3:Ya:714:THR:O	2.10	0.51
1:Bx:47:THR:HG23	1:Iw:18:VAL:CG2	2.40	0.51
1:Et:87:GLU:OE1	1:Dr:28:THR:CG2	2.58	0.51
2:Pu:14:ASN:O	3:Yt:851:SER:HB3	2.10	0.51
1:Bn:83:ARG:NH1	1:Em:28:THR:O	2.43	0.51
1:Jo:62:ARG:NE	3:Xj:624:SER:HB2	2.25	0.51
1:Mk:83:ARG:HD2	1:Ms:31:ALA:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pl:14:ASN:O	3:Yk:851:SER:HB3	2.10	0.51
1:EI:12:ILE:HG23	1:EI:75:LEU:HD12	1.90	0.51
1:Fh:72:GLY:HA2	1:Dh:77:ALA:CB	2.40	0.51
1:Nm:12:ILE:HD12	1:Nm:27:MET:SD	2.50	0.51
1:DC:58:ASN:HB2	3:Xr:643:TYR:CE1	2.20	0.51
1:LA:62:ARG:O	3:XA:633:GLY:HA3	2.11	0.51
1:NC:12:ILE:HD12	1:NC:27:MET:SD	2.50	0.51
1:H5:55:GLY:HA2	2:P4:13:THR:HG21	1.92	0.51
1:J5:62:ARG:NE	3:X0:624:SER:HB2	2.25	0.51
1:N4:12:ILE:HD12	1:N4:27:MET:SD	2.50	0.51
2:P4:14:ASN:O	3:Y3:851:SER:HB3	2.10	0.51
1:E0:91:ILE:HG21	1:DQ:35:LEU:CD2	2.38	0.51
1:H6:68:CYS:SG	1:H6:75:LEU:HD13	2.50	0.51
1:H9:68:CYS:SG	1:H9:75:LEU:HD13	2.50	0.51
1:EP:87:GLU:OE1	1:DN:28:THR:CG2	2.58	0.51
1:HP:68:CYS:SG	1:HP:75:LEU:HD13	2.50	0.51
1:HR:68:CYS:SG	1:HR:75:LEU:HD13	2.50	0.51
1:NQ:12:ILE:HD12	1:NQ:27:MET:SD	2.50	0.51
1:NT:12:ILE:HD12	1:NT:27:MET:SD	2.50	0.51
1:BK:47:THR:HG23	1:IJ:18:VAL:CG2	2.40	0.51
1:BK:91:ILE:HD11	1:IJ:21:ILE:HD13	1.91	0.51
1:FI:38:ARG:O	1:FI:97:GLN:OE1	2.28	0.51
1:HH:62:ARG:HG3	3:YK:848:ILE:CD1	2.26	0.51
2:PG:16:ILE:HD11	2:PG:68:PRO:HG3	1.92	0.51
1:BN:61:VAL:HG12	3:YM:724:ILE:HD13	1.92	0.51
2:PM:14:ASN:O	3:YL:851:SER:HB3	2.10	0.51
1:Jh:7:ILE:HD11	1:Lq:32:GLU:HB2	1.91	0.51
1:EZ:77:ALA:HB2	1:Dd:72:GLY:HA2	1.92	0.51
1:NX:12:ILE:HD12	1:NX:27:MET:SD	2.50	0.51
1:NY:12:ILE:HD12	1:NY:27:MET:SD	2.50	0.51
3:XV:643:TYR:HE1	1:Dd:58:ASN:HB3	1.74	0.51
1:Aa:69:GLU:C	3:Yd:841:PRO:HG3	2.28	0.51
1:Ba:83:ARG:NH1	1:EU:28:THR:O	2.43	0.51
1:HU:62:ARG:HG3	3:Yc:848:ILE:CD1	2.29	0.51
1:Hd:55:GLY:HA2	2:Pc:13:THR:HG21	1.91	0.51
1:Hd:68:CYS:SG	1:Hd:75:LEU:HD13	2.50	0.51
1:Bt:47:THR:CG2	1:Ix:18:VAL:CG2	2.88	0.51
1:Nx:12:ILE:HD12	1:Nx:27:MET:SD	2.50	0.51
1:Bm:79:HIS:HA	3:Yl:725:THR:O	2.10	0.51
1:Nl:12:ILE:HD12	1:Nl:27:MET:SD	2.50	0.51
1:Hs:55:GLY:HA2	2:Pr:13:THR:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nr:12:ILE:HD12	1:Nr:27:MET:SD	2.50	0.51
1:NI:12:ILE:HD12	1:NI:27:MET:SD	2.50	0.51
1:DF:36:VAL:HG23	1:DF:49:LEU:HB2	1.92	0.51
1:BE:47:THR:HG23	1:ID:18:VAL:CG2	2.40	0.51
1:EC:12:ILE:HG23	1:EC:75:LEU:HD12	1.91	0.51
1:HE:68:CYS:SG	1:HE:75:LEU:HD13	2.50	0.51
1:JB:62:ARG:HD2	3:Xv:623:ALA:HA	1.92	0.51
1:E2:91:ILE:HG21	1:Df:35:LEU:CD2	2.41	0.51
1:J0:62:ARG:HG2	3:XR:627:VAL:HG21	1.91	0.51
1:N0:12:ILE:HD12	1:N0:27:MET:SD	2.50	0.51
1:N8:12:ILE:HD12	1:N8:27:MET:SD	2.50	0.51
2:P0:39:VAL:HG21	2:P0:67:TYR:HE1	1.74	0.51
1:HP:55:GLY:HA2	2:PT:13:THR:HG21	1.93	0.51
1:HQ:68:CYS:SG	1:HQ:75:LEU:HD13	2.50	0.51
1:NR:12:ILE:HD12	1:NR:27:MET:SD	2.50	0.51
1:EK:12:ILE:HG23	1:EK:75:LEU:HD12	1.90	0.51
1:HK:68:CYS:SG	1:HK:75:LEU:HD13	2.50	0.51
1:JH:43:GLY:O	3:XH:694:PRO:HG2	2.11	0.51
1:BO:83:ARG:NH1	1:EN:28:THR:O	2.43	0.51
1:HF:55:GLY:HA2	2:PO:13:THR:HG21	1.92	0.51
1:NM:79:HIS:HA	3:YL:714:THR:O	2.10	0.51
1:He:68:CYS:SG	1:He:75:LEU:HD13	2.50	0.51
1:BV:47:THR:CG2	1:IZ:18:VAL:CG2	2.88	0.51
1:HW:68:CYS:SG	1:HW:75:LEU:HD13	2.50	0.51
1:HY:68:CYS:SG	1:HY:75:LEU:HD13	2.50	0.51
1:NV:12:ILE:HD12	1:NV:27:MET:SD	2.50	0.51
1:Bc:61:VAL:HG12	3:Yb:724:ILE:HD13	1.92	0.51
1:Ha:62:ARG:HG2	3:Yd:848:ILE:HD11	1.83	0.51
1:Fw:25:ASP:HA	1:Dw:88:VAL:HG21	1.92	0.51
1:Ht:68:CYS:SG	1:Ht:75:LEU:HD13	2.50	0.51
1:Nu:12:ILE:HD12	1:Nu:27:MET:SD	2.50	0.51
1:Hk:68:CYS:SG	1:Hk:75:LEU:HD13	2.50	0.51
1:Nk:12:ILE:HD12	1:Nk:27:MET:SD	2.50	0.51
1:Bj:91:ILE:HD11	1:Is:21:ILE:HD13	1.90	0.51
1:Eq:12:ILE:HG23	1:Eq:75:LEU:HD12	1.90	0.51
1:Np:12:ILE:HD12	1:Np:27:MET:SD	2.50	0.51
1:Nq:12:ILE:HD12	1:Nq:27:MET:SD	2.50	0.51
1:FF:19:PRO:HG3	1:FF:72:GLY:HA3	1.91	0.51
1:AA:69:GLU:O	3:YD:841:PRO:CG	2.38	0.51
1:BC:83:ARG:NH1	1:EB:28:THR:O	2.41	0.51
1:EA:87:GLU:OE1	1:D8:28:THR:CG2	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EE:12:ILE:HG23	1:EE:75:LEU:HD12	1.91	0.51
1:GB:36:VAL:O	1:GB:96:PRO:HA	2.10	0.51
1:HB:62:ARG:HG3	3:YE:848:ILE:CD1	2.26	0.51
1:N4:32:GLU:OE1	1:E3:83:ARG:NE	2.43	0.51
1:B0:47:THR:HG23	1:I9:18:VAL:CG2	2.40	0.51
1:N6:12:ILE:HD12	1:N6:27:MET:SD	2.50	0.51
2:P7:14:ASN:O	2:P8:42:ILE:HD12	2.11	0.51
1:AT:69:GLU:C	3:YR:841:PRO:HG3	2.24	0.51
1:EJ:85:HIS:CE1	1:Dm:28:THR:CG2	2.94	0.51
1:JJ:62:ARG:NE	3:Xn:624:SER:H	2.09	0.51
1:MH:30:ALA:O	1:Ma:82:ALA:HB3	2.10	0.51
1:CF:73:ASP:OD2	1:HO:45:TYR:OH	2.24	0.51
1:CN:25:ASP:CA	1:HM:88:VAL:HG21	2.40	0.51
1:Bf:83:ARG:NH1	1:Ee:28:THR:O	2.43	0.51
1:Ee:87:GLU:OE1	1:Dc:28:THR:CG2	2.58	0.51
1:Mi:30:ALA:O	1:MW:82:ALA:HB3	2.10	0.51
1:Ne:12:ILE:HD12	1:Ne:27:MET:SD	2.50	0.51
1:DX:25:ASP:HA	1:En:88:VAL:HG21	1.91	0.51
1:JW:43:GLY:HA2	3:XW:693:THR:HG23	1.92	0.51
1:NZ:12:ILE:HD12	1:NZ:27:MET:SD	2.50	0.51
1:Ba:47:THR:CG2	1:IU:18:VAL:CG2	2.88	0.51
1:GU:36:VAL:HG11	1:GU:51:ARG:HD3	1.92	0.51
1:NU:12:ILE:HD12	1:NU:27:MET:SD	2.50	0.51
1:Na:12:ILE:HD12	1:Na:27:MET:SD	2.50	0.51
2:Pb:14:ASN:O	2:Pc:42:ILE:HD12	2.11	0.51
2:PU:39:VAL:HG21	2:PU:67:TYR:HE1	1.74	0.51
1:Nu:79:HIS:HA	3:Yt:714:THR:O	2.10	0.51
1:Nv:12:ILE:HD12	1:Nv:27:MET:SD	2.50	0.51
1:Ov:87:GLU:CB	1:Jv:28:THR:HG21	2.33	0.51
1:Eo:77:ALA:HB2	1:Ds:72:GLY:HA2	1.92	0.51
1:Jl:43:GLY:HA2	3:Xl:693:THR:HG23	1.92	0.51
1:Mo:30:ALA:O	1:Mj:82:ALA:HB3	2.10	0.51
1:Br:83:ARG:NH1	1:Eq:28:THR:O	2.41	0.51
1:Hq:68:CYS:SG	1:Hq:75:LEU:HD13	2.50	0.51
1:Hq:80:ILE:CD1	3:Yj:848:ILE:HG21	2.41	0.51
1:DH:22:GLU:HG2	1:DH:71:VAL:HG21	1.92	0.51
1:BB:83:ARG:NH1	1:EA:28:THR:O	2.43	0.51
1:DC:72:GLY:HA2	1:Eq:77:ALA:HB2	1.92	0.51
1:FD:28:THR:HG23	1:DD:85:HIS:HE1	1.69	0.51
1:HA:68:CYS:SG	1:HA:75:LEU:HD13	2.50	0.51
1:HC:68:CYS:SG	1:HC:75:LEU:HD13	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HD:68:CYS:SG	1:HD:75:LEU:HD13	2.50	0.51
3:XE:616:ILE:HG13	1:Dg:62:ARG:HG2	1.93	0.51
1:B2:47:THR:HG23	1:I1:18:VAL:HG23	1.93	0.51
1:H1:68:CYS:SG	1:H1:75:LEU:HD13	2.50	0.51
1:M4:83:ARG:HD2	1:Mb:31:ALA:O	2.11	0.51
1:B8:61:VAL:HG12	3:Y7:724:ILE:HD13	1.92	0.51
1:G0:62:ARG:HG2	3:Y9:785:VAL:HG21	1.92	0.51
1:H0:68:CYS:SG	1:H0:75:LEU:HD13	2.50	0.51
1:CR:72:GLY:HA2	1:HQ:77:ALA:HB2	1.93	0.51
1:HS:55:GLY:HA2	2:PR:13:THR:HG21	1.91	0.51
2:PP:14:ASN:ND2	2:PQ:76:ILE:CD1	2.72	0.51
1:GH:36:VAL:O	1:GH:96:PRO:HA	2.10	0.51
1:HH:80:ILE:CD1	3:YK:848:ILE:HG21	2.41	0.51
1:HI:68:CYS:SG	1:HI:75:LEU:HD13	2.50	0.51
1:HJ:68:CYS:SG	1:HJ:75:LEU:HD13	2.50	0.51
3:XG:643:TYR:HE1	1:DO:58:ASN:HB3	1.74	0.51
3:XK:624:SER:CB	1:Jm:62:ARG:CZ	2.64	0.51
1:GF:96:PRO:O	1:GF:97:GLN:C	2.53	0.51
1:HO:68:CYS:SG	1:HO:75:LEU:HD13	2.50	0.51
1:ON:80:ILE:O	3:XN:716:PRO:HD3	2.10	0.51
2:PO:14:ASN:O	3:YN:851:SER:HB3	2.10	0.51
3:YL:705:ASN:CG	1:EL:82:ALA:HB2	2.35	0.51
1:He:62:ARG:HG2	3:Yh:848:ILE:HD11	1.83	0.51
1:Hg:80:ILE:HD12	3:Ye:848:ILE:HG21	1.92	0.51
3:Xi:643:TYR:HE2	1:Dp:55:GLY:O	1.92	0.51
1:DW:35:LEU:CD2	1:Ej:91:ILE:CG2	2.88	0.51
1:EY:88:VAL:HG21	1:DI:25:ASP:HA	1.93	0.51
1:GW:11:MET:HG2	1:GW:49:LEU:HD23	1.91	0.51
1:Hc:80:ILE:HD12	3:Ya:848:ILE:HG21	1.92	0.51
2:Pb:14:ASN:O	3:Ya:851:SER:HB3	2.10	0.51
1:Bx:91:ILE:HD11	1:Iw:21:ILE:HD13	1.90	0.51
1:Gu:66:ASP:HA	3:Yt:784:ARG:NH2	2.25	0.51
1:Bl:83:ARG:NH1	1:Ek:28:THR:O	2.43	0.51
1:Ho:68:CYS:SG	1:Ho:75:LEU:HD13	2.50	0.51
1:Jl:43:GLY:O	3:Xl:694:PRO:HG2	2.11	0.51
2:Pl:59:ARG:HH22	2:Pm:60:GLU:HB2	1.75	0.51
2:Pn:14:ASN:O	3:Ym:851:SER:HB3	2.10	0.51
1:Aj:22:GLU:OE2	3:Yr:865:GLY:N	2.18	0.51
1:Hj:68:CYS:SG	1:Hj:75:LEU:HD13	2.50	0.51
1:Hq:62:ARG:HG3	3:Yj:848:ILE:CD1	2.26	0.51
2:Pj:39:VAL:HG21	2:Pj:67:TYR:HE1	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Xb:693:THR:HG22	3:Xb:696:ARG:H	1.75	0.51
3:Xn:696:ARG:HA	3:Xn:700:ASN:HA	1.93	0.51
3:XM:693:THR:HG22	3:XM:696:ARG:H	1.75	0.51
1:Dh:96:PRO:O	1:Dh:97:GLN:C	2.53	0.51
1:DH:23:ALA:HB2	1:DH:68:CYS:HB3	1.93	0.51
1:DH:36:VAL:HG23	1:DH:49:LEU:HB2	1.93	0.51
1:DC:80:ILE:HD11	3:Xr:616:ILE:HG21	1.81	0.51
1:EB:58:ASN:HB2	3:YB:707:ILE:HD13	1.91	0.51
1:GB:66:ASP:HA	3:YA:784:ARG:NH2	2.25	0.51
1:HB:80:ILE:CD1	3:YE:848:ILE:HG21	2.41	0.51
1:OA:80:ILE:O	3:XA:716:PRO:HD3	2.11	0.51
1:B5:47:THR:HG23	1:I4:18:VAL:CG2	2.40	0.51
1:D2:80:ILE:HD12	3:Xg:616:ILE:HG22	1.89	0.51
1:M3:71:VAL:CG1	1:J3:79:HIS:CD2	2.93	0.51
1:L8:65:ALA:HB1	3:X8:636:GLN:NE2	2.18	0.51
2:P9:14:ASN:O	3:Y8:851:SER:HB3	2.10	0.51
1:BS:47:THR:HG23	1:IR:18:VAL:HG23	1.93	0.51
1:GQ:36:VAL:O	1:GQ:96:PRO:HA	2.10	0.51
1:BH:83:ARG:NH1	1:EG:28:THR:O	2.43	0.51
1:GF:62:ARG:HG2	3:YO:785:VAL:HG21	1.92	0.51
1:ML:82:ALA:HB3	1:Ml:30:ALA:O	2.11	0.51
2:PO:55:SER:HA	2:PO:70:ASP:HA	1.93	0.51
1:Fb:72:GLY:HA2	1:Db:77:ALA:CB	2.30	0.51
1:Ha:62:ARG:HG3	3:Yd:848:ILE:CD1	2.32	0.51
1:Cv:72:GLY:HA2	1:Hu:77:ALA:HB2	1.93	0.51
1:Lt:62:ARG:O	3:Xt:633:GLY:HA3	2.11	0.51
1:Hm:80:ILE:HD12	3:Yk:848:ILE:HG21	1.92	0.51
1:Hs:68:CYS:SG	1:Hs:75:LEU:HD13	2.50	0.51
1:Nq:79:HIS:HA	3:Yp:714:THR:O	2.10	0.51
1:Or:80:ILE:O	3:Xr:716:PRO:HD3	2.10	0.51
1:J6:80:ILE:HD11	3:XN:630:ASN:HD21	1.63	0.51
3:XY:696:ARG:HA	3:XY:700:ASN:HA	1.93	0.51
1:JY:32:GLU:CD	1:DY:7:ILE:HG21	2.36	0.51
3:XC:694:PRO:HG3	1:JC:45:TYR:CZ	2.46	0.51
1:G2:66:ASP:HA	3:Y1:784:ARG:NH2	2.25	0.51
2:P2:14:ASN:O	3:Y1:851:SER:HB3	2.10	0.51
2:P2:14:ASN:O	2:P3:42:ILE:HD12	2.11	0.51
1:E0:77:ALA:CB	1:DQ:18:VAL:HG11	2.40	0.51
1:H0:55:GLY:HA2	2:P9:13:THR:HG21	1.92	0.51
1:H7:55:GLY:HA2	2:P6:13:THR:HG21	1.91	0.51
1:N7:12:ILE:HD12	1:N7:27:MET:SD	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N9:12:ILE:HD12	1:N9:27:MET:SD	2.50	0.51
1:NP:12:ILE:HD12	1:NP:27:MET:SD	2.50	0.51
1:NS:12:ILE:HD12	1:NS:27:MET:SD	2.50	0.51
2:PQ:14:ASN:O	2:PR:42:ILE:HD12	2.11	0.51
1:BG:47:THR:CG2	1:IK:18:VAL:CG2	2.88	0.51
1:HI:80:ILE:HD12	3:YG:848:ILE:HG21	1.92	0.51
1:DL:18:VAL:HG22	1:Ew:11:MET:CB	2.41	0.51
1:Be:47:THR:CG2	1:Ii:18:VAL:CG2	2.88	0.51
1:Hi:68:CYS:SG	1:Hi:75:LEU:HD13	2.51	0.51
1:Lh:62:ARG:HH11	3:Xh:634:GLU:HA	1.74	0.51
1:Nf:79:HIS:HA	3:Ye:714:THR:O	2.10	0.51
1:BX:79:HIS:HA	3:YW:725:THR:O	2.10	0.51
1:MZ:30:ALA:O	1:MU:82:ALA:HB3	2.10	0.51
2:PW:14:ASN:O	2:PX:42:ILE:HD12	2.11	0.51
3:YX:703:THR:OG1	1:Dn:71:VAL:HG13	2.10	0.51
1:GU:42:GLY:C	1:GU:44:GLY:H	2.19	0.51
1:Ha:55:GLY:HA2	2:PU:13:THR:HG21	1.93	0.51
1:Gu:36:VAL:O	1:Gu:96:PRO:HA	2.10	0.51
1:DM:58:ASN:HD21	1:DM:62:ARG:NH1	2.09	0.51
1:Fh:35:LEU:CD2	1:Dh:91:ILE:CG2	2.88	0.51
1:AA:69:GLU:C	3:YD:841:PRO:HG3	2.28	0.51
1:BA:47:THR:CG2	1:IE:18:VAL:CG2	2.88	0.51
1:CB:18:VAL:HG13	1:HA:11:MET:HE3	1.93	0.51
1:DA:58:ASN:HB3	3:X9:643:TYR:CE1	2.46	0.51
1:EA:62:ARG:CB	3:YA:732:HIS:NE2	2.59	0.51
1:HC:80:ILE:HD12	3:YA:848:ILE:HG21	1.92	0.51
1:ME:30:ALA:O	1:M2:82:ALA:HB3	2.10	0.51
1:C2:18:VAL:HG13	1:H1:11:MET:HE3	1.93	0.51
1:N2:12:ILE:HD12	1:N2:27:MET:SD	2.50	0.51
3:X1:643:TYR:HE1	1:D9:58:ASN:HB3	1.74	0.51
1:B7:47:THR:HG23	1:I6:18:VAL:HG23	1.93	0.51
1:J7:32:GLU:CD	1:D7:7:ILE:HD11	2.36	0.51
1:BP:83:ARG:NH1	1:ET:28:THR:O	2.43	0.51
1:HP:62:ARG:CA	3:YS:848:ILE:HD11	2.34	0.51
1:HR:62:ARG:HG3	3:YP:848:ILE:CD1	2.28	0.51
1:CH:18:VAL:HG13	1:HG:11:MET:HE3	1.93	0.51
1:GH:66:ASP:HA	3:YG:784:ARG:NH2	2.25	0.51
1:HG:68:CYS:SG	1:HG:75:LEU:HD13	2.50	0.51
1:NG:12:ILE:HD12	1:NG:27:MET:SD	2.50	0.51
1:GF:37:GLY:HA3	1:GF:93:PRO:HG2	1.92	0.51
1:NF:12:ILE:HD12	1:NF:27:MET:SD	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ee:91:ILE:HG21	1:Dc:35:LEU:CD2	2.37	0.51
1:He:55:GLY:HA2	2:Pi:13:THR:HG21	1.93	0.51
1:Le:62:ARG:O	3:Xe:633:GLY:HA3	2.11	0.51
2:Pf:51:LEU:O	2:Pf:74:ILE:HG12	2.10	0.51
1:BY:47:THR:HG23	1:IX:18:VAL:HG23	1.93	0.51
1:CX:25:ASP:CA	1:HW:88:VAL:HG21	2.39	0.51
1:HZ:68:CYS:SG	1:HZ:75:LEU:HD13	2.50	0.51
1:Cc:25:ASP:CA	1:Hb:88:VAL:HG21	2.40	0.51
1:Hb:68:CYS:SG	1:Hb:75:LEU:HD13	2.50	0.51
2:Pa:14:ASN:HD21	2:Pb:76:ILE:CB	2.19	0.51
2:Pd:14:ASN:O	3:Yc:851:SER:HB3	2.10	0.51
1:Hw:68:CYS:SG	1:Hw:75:LEU:HD13	2.50	0.51
1:Bk:47:THR:CG2	1:Io:18:VAL:CG2	2.88	0.51
1:Eo:79:HIS:HA	3:Yo:703:THR:O	2.11	0.51
2:Pl:14:ASN:O	2:Pm:42:ILE:HD12	2.11	0.51
1:Cs:18:VAL:HG13	1:Hr:11:MET:HE3	1.93	0.51
1:Dh:9:LEU:HD11	1:Dh:49:LEU:HB3	1.93	0.51
1:Dl:34:ARG:HA	1:EF:87:GLU:OE1	2.10	0.51
1:CC:72:GLY:HA2	1:HB:77:ALA:HB2	1.93	0.51
1:NA:12:ILE:HD12	1:NA:27:MET:SD	2.50	0.51
2:PD:53:VAL:HG22	2:PD:54:GLY:H	1.76	0.51
1:D2:28:THR:HG23	1:Ef:87:GLU:OE1	2.11	0.51
1:H2:80:ILE:CD1	3:Y5:848:ILE:HG21	2.41	0.51
1:B6:83:ARG:NH1	1:E0:28:THR:O	2.43	0.51
1:C8:25:ASP:CA	1:H7:88:VAL:HG21	2.40	0.51
1:D0:25:ASP:HA	1:EQ:88:VAL:CG2	2.41	0.51
1:F6:79:HIS:HA	3:X6:725:THR:O	2.10	0.51
1:L6:28:THR:O	1:JQ:83:ARG:NH1	2.44	0.51
1:JT:45:TYR:CZ	3:XT:694:PRO:HG3	2.46	0.51
2:PQ:14:ASN:O	3:YP:851:SER:HB3	2.10	0.51
1:EK:79:HIS:HA	3:YK:703:THR:O	2.10	0.51
2:PG:76:ILE:HD12	2:PK:14:ASN:ND2	2.26	0.51
1:BN:83:ARG:NH1	1:EM:28:THR:O	2.41	0.51
1:DL:28:THR:HG22	1:Ew:85:HIS:CE1	2.45	0.51
1:HN:80:ILE:HD12	3:YL:848:ILE:HG21	1.92	0.51
2:Pf:14:ASN:O	2:Pg:42:ILE:HD12	2.11	0.51
1:CW:18:VAL:HG13	1:HV:11:MET:HE3	1.93	0.51
1:JZ:62:ARG:NE	3:XU:624:SER:HB2	2.25	0.51
1:Ha:68:CYS:SG	1:Ha:75:LEU:HD13	2.50	0.51
1:Lc:31:ALA:O	1:J3:83:ARG:HD2	2.10	0.51
1:OU:80:ILE:O	3:XU:716:PRO:HD3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dx:35:LEU:CD2	1:Ek:91:ILE:CG2	2.88	0.51
1:Hv:62:ARG:CA	3:Yt:848:ILE:HD11	2.37	0.51
1:Ju:45:TYR:CZ	3:Xu:694:PRO:HG3	2.46	0.51
1:Cl:18:VAL:HG13	1:Hk:11:MET:HE3	1.93	0.51
1:Hk:55:GLY:HA2	2:Po:13:THR:HG21	1.93	0.51
1:Hk:62:ARG:HG2	3:Yn:848:ILE:HD11	1.83	0.51
1:No:12:ILE:HD12	1:No:27:MET:SD	2.50	0.51
1:Hr:68:CYS:SG	1:Hr:75:LEU:HD13	2.50	0.51
1:Hr:80:ILE:HD12	3:Yp:848:ILE:HG21	1.92	0.51
1:Jq:62:ARG:NH1	3:XD:622:ASP:O	2.41	0.51
1:FL:13:GLU:HB2	1:EL:18:VAL:HG23	1.93	0.51
1:Dl:18:VAL:CG2	1:EF:11:MET:HB3	2.40	0.51
1:DF:69:GLU:HB3	1:DF:70:ARG:HE	1.75	0.51
1:JD:45:TYR:CZ	3:XD:694:PRO:HG3	2.46	0.51
3:XE:643:TYR:CE2	1:Dg:55:GLY:O	2.64	0.51
1:H3:68:CYS:SG	1:H3:75:LEU:HD13	2.50	0.51
1:B6:47:THR:CG2	1:I0:18:VAL:CG2	2.88	0.51
1:AG:69:GLU:O	3:YJ:841:PRO:CG	2.38	0.51
1:CI:72:GLY:HA2	1:HH:77:ALA:HB2	1.93	0.51
3:YI:703:THR:O	1:EI:79:HIS:HA	2.11	0.51
1:BO:47:THR:HG23	1:IN:18:VAL:HG23	1.93	0.51
1:NN:12:ILE:HD12	1:NN:27:MET:SD	2.50	0.51
1:Bf:79:HIS:HA	3:Ye:725:THR:O	2.11	0.51
1:Cf:18:VAL:HG13	1:He:11:MET:HE3	1.93	0.51
1:Cg:72:GLY:HA2	1:Hf:77:ALA:HB2	1.93	0.51
1:Di:35:LEU:CD2	1:EV:91:ILE:CG2	2.89	0.51
1:Eh:61:VAL:HG12	3:Yh:702:ILE:HD11	1.93	0.51
1:Hh:68:CYS:SG	1:Hh:75:LEU:HD13	2.50	0.51
1:Ni:12:ILE:HD12	1:Ni:27:MET:SD	2.50	0.51
1:EX:79:HIS:HA	3:YX:703:THR:O	2.11	0.51
1:EZ:79:HIS:HA	3:YZ:703:THR:O	2.10	0.51
1:HV:68:CYS:SG	1:HV:75:LEU:HD13	2.50	0.51
1:GU:62:ARG:HG2	3:Yd:785:VAL:HG21	1.92	0.51
2:Pd:55:SER:HA	2:Pd:70:ASP:HA	1.93	0.51
1:Bu:47:THR:HG23	1:It:18:VAL:HG23	1.93	0.51
1:Bu:79:HIS:HA	3:Yt:725:THR:O	2.12	0.51
1:Dt:58:ASN:HB3	3:Xs:643:TYR:CE1	2.46	0.51
1:Hv:68:CYS:SG	1:Hv:75:LEU:HD13	2.50	0.51
2:Pu:14:ASN:O	2:Pv:42:ILE:HD12	2.11	0.51
2:Pv:14:ASN:HD21	2:Pw:76:ILE:CB	2.19	0.51
1:Jn:62:ARG:NH2	3:XY:624:SER:CA	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Nn:32:GLU:OE1	1:Em:83:ARG:NE	2.44	0.51
1:Bq:47:THR:HG23	1:Ip:18:VAL:HG23	1.93	0.51
3:Xq:637:LEU:HA	3:Xq:649:THR:HG23	1.92	0.51
1:Fh:43:GLY:C	1:Dh:43:GLY:HA3	2.35	0.51
1:DI:41:VAL:HB	1:DI:45:TYR:HB2	1.93	0.51
1:Df:58:ASN:O	1:Df:59:ALA:C	2.49	0.51
1:BB:79:HIS:HA	3:YA:725:THR:O	2.11	0.50
1:DE:18:VAL:HG22	1:E1:11:MET:CB	2.42	0.50
2:PA:76:ILE:HD12	2:PE:14:ASN:ND2	2.27	0.50
3:XB:643:TYR:CE1	1:D8:58:ASN:HB3	2.46	0.50
1:C2:73:ASP:OD2	1:H1:45:TYR:OH	2.24	0.50
1:H8:80:ILE:HD12	3:Y6:848:ILE:HG21	1.92	0.50
1:EK:77:ALA:HB2	1:DO:72:GLY:HA2	1.92	0.50
1:HG:80:ILE:CD1	3:YJ:848:ILE:HG21	2.42	0.50
1:JK:62:ARG:NE	3:XF:624:SER:HB2	2.25	0.50
1:BL:47:THR:CG2	1:IF:18:VAL:CG2	2.88	0.50
1:GF:42:GLY:C	1:GF:44:GLY:H	2.19	0.50
1:HL:68:CYS:SG	1:HL:75:LEU:HD13	2.50	0.50
1:ML:29:LYS:NZ	1:Lx:29:LYS:O	2.39	0.50
1:OF:83:ARG:N	1:FF:30:ALA:O	2.44	0.50
1:Jf:45:TYR:CZ	3:Xf:694:PRO:HG3	2.46	0.50
1:HV:80:ILE:CD1	3:YY:848:ILE:HG21	2.42	0.50
1:JW:7:ILE:HG12	1:Lp:32:GLU:OE1	2.11	0.50
1:JW:43:GLY:O	3:XW:694:PRO:HG2	2.11	0.50
2:PW:14:ASN:O	3:YV:851:SER:HB3	2.10	0.50
1:Cc:72:GLY:HA2	1:Hb:77:ALA:HB2	1.93	0.50
1:Hb:80:ILE:CD1	3:YU:848:ILE:HG21	2.41	0.50
1:Bu:83:ARG:NH1	1:Et:28:THR:O	2.43	0.50
1:Nu:80:ILE:O	3:Yt:716:PRO:HD3	2.12	0.50
1:Bm:37:GLY:HA2	1:Bm:96:PRO:HA	1.92	0.50
1:Lo:45:TYR:CE2	3:Xo:691:ILE:HD11	2.47	0.50
3:Xk:643:TYR:HE1	1:Ds:58:ASN:HB3	1.75	0.50
1:Hp:55:GLY:HA2	2:Pj:13:THR:HG21	1.93	0.50
2:Ps:55:SER:HA	2:Ps:70:ASP:HA	1.93	0.50
1:EI:84:VAL:HG11	1:EI:92:LEU:HD11	1.93	0.50
3:Xb:637:LEU:HA	3:Xb:649:THR:HG23	1.92	0.50
1:Jv:96:PRO:O	1:Jv:97:GLN:C	2.54	0.50
1:HA:80:ILE:CD1	3:YD:848:ILE:HG21	2.42	0.50
1:N5:12:ILE:HD12	1:N5:27:MET:SD	2.50	0.50
1:C9:18:VAL:HG13	1:H8:11:MET:HE3	1.93	0.50
1:H6:80:ILE:CD1	3:Y9:848:ILE:HG21	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P9:55:SER:HA	2:P9:70:ASP:HA	1.93	0.50
3:X6:616:ILE:CD1	1:DQ:78:ALA:HB1	2.41	0.50
1:CQ:18:VAL:HG13	1:HP:11:MET:HE3	1.93	0.50
1:HQ:80:ILE:CD1	3:YT:848:ILE:HG21	2.41	0.50
1:JQ:45:TYR:CZ	3:XQ:694:PRO:HG3	2.46	0.50
1:JR:45:TYR:CZ	3:XR:694:PRO:HG3	2.46	0.50
1:LP:62:ARG:O	3:XP:633:GLY:HA3	2.11	0.50
1:BJ:47:THR:HG23	1:II:18:VAL:HG23	1.93	0.50
1:JH:43:GLY:HA2	3:XH:693:THR:HG23	1.92	0.50
1:LK:32:GLU:OE1	1:Jm:7:ILE:HG12	2.11	0.50
2:PH:14:ASN:O	2:PI:42:ILE:HD12	2.11	0.50
1:AL:69:GLU:C	3:YO:841:PRO:HG3	2.28	0.50
1:EM:88:VAL:HG21	1:D6:25:ASP:HA	1.93	0.50
1:De:58:ASN:HB3	3:Xd:643:TYR:CE1	2.46	0.50
1:Di:18:VAL:HG22	1:EV:11:MET:CB	2.42	0.50
1:Hf:80:ILE:CD1	3:Yi:848:ILE:HG21	2.41	0.50
1:Jh:62:ARG:NH1	3:Xq:622:ASP:O	2.45	0.50
1:Oe:80:ILE:O	3:Xe:716:PRO:HD3	2.11	0.50
2:Ph:53:VAL:HG22	2:Ph:54:GLY:H	1.76	0.50
1:Ea:92:LEU:CD2	1:DS:21:ILE:HD13	2.41	0.50
2:Pa:76:ILE:HD12	2:PU:14:ASN:ND2	2.26	0.50
1:Cm:72:GLY:HA2	1:Hl:77:ALA:HB2	1.93	0.50
1:Hl:80:ILE:CD1	3:Yo:848:ILE:HG21	2.41	0.50
1:Hn:68:CYS:SG	1:Hn:75:LEU:HD13	2.50	0.50
2:Ps:14:ASN:O	3:Yr:851:SER:HB3	2.10	0.50
1:J3:12:ILE:HG23	1:J3:75:LEU:HD23	1.91	0.50
1:Fh:18:VAL:O	1:Dh:11:MET:HE1	2.11	0.50
1:Db:35:LEU:CD2	1:E3:91:ILE:CG2	2.89	0.50
1:Db:49:LEU:HD13	1:Db:93:PRO:HG3	1.93	0.50
1:BD:47:THR:HG23	1:IC:18:VAL:HG23	1.93	0.50
1:HA:62:ARG:HG2	3:YD:848:ILE:HD11	1.83	0.50
1:H1:55:GLY:HA2	2:P5:13:THR:HG21	1.93	0.50
2:P1:76:ILE:HD12	2:P5:14:ASN:ND2	2.26	0.50
1:H8:68:CYS:SG	1:H8:75:LEU:HD13	2.50	0.50
1:L7:15:ARG:HG2	3:X7:691:ILE:HG23	1.94	0.50
3:XT:628:THR:OG1	1:Ja:79:HIS:HB2	2.00	0.50
1:HG:62:ARG:HG2	3:YJ:848:ILE:HD11	1.83	0.50
1:HH:68:CYS:SG	1:HH:75:LEU:HD13	2.50	0.50
1:Ji:45:TYR:CZ	3:Xi:694:PRO:HG3	2.46	0.50
1:BW:83:ARG:NH1	1:EV:28:THR:O	2.43	0.50
1:CX:72:GLY:HA2	1:HW:77:ALA:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PY:14:ASN:O	3:YX:851:SER:HB3	2.10	0.50
1:Fa:79:HIS:HA	3:Xa:725:THR:O	2.10	0.50
1:HU:55:GLY:HA2	2:Pd:13:THR:HG21	1.92	0.50
1:Ht:80:ILE:CD1	3:Yw:848:ILE:HG21	2.41	0.50
1:Ot:80:ILE:O	3:Xt:716:PRO:HD3	2.11	0.50
1:Jn:15:ARG:HG2	3:Xn:694:PRO:HB2	1.94	0.50
1:Ln:83:ARG:NE	1:DJ:32:GLU:HG2	2.27	0.50
1:Bp:47:THR:CG2	1:Ij:18:VAL:CG2	2.88	0.50
1:Hp:80:ILE:CD1	3:Ys:848:ILE:HG21	2.42	0.50
2:Pq:14:ASN:O	3:Yp:851:SER:HB3	2.10	0.50
2:Pq:14:ASN:O	2:Pr:42:ILE:HD12	2.11	0.50
1:DD:18:VAL:HB	1:DD:19:PRO:HD3	1.94	0.50
1:Db:73:ASP:OD2	1:E3:45:TYR:OH	2.11	0.50
1:Mm:12:ILE:HD13	1:Mm:78:ALA:HB2	1.92	0.50
1:DB:21:ILE:HD13	1:Eu:92:LEU:HD23	1.91	0.50
1:FD:17:LEU:HD23	1:DD:47:THR:CG2	2.39	0.50
1:NB:80:ILE:O	3:YA:716:PRO:HD3	2.12	0.50
2:PA:53:VAL:HB	2:PA:74:ILE:HD13	1.94	0.50
2:PB:14:ASN:O	2:PC:42:ILE:HD12	2.11	0.50
1:B4:83:ARG:NH1	1:E3:28:THR:O	2.43	0.50
1:E5:77:ALA:HB2	1:D9:72:GLY:HA2	1.92	0.50
1:J4:7:ILE:HG12	1:LS:32:GLU:OE1	2.10	0.50
1:L5:45:TYR:CE2	3:X5:691:ILE:HD11	2.46	0.50
1:L5:66:ASP:CA	3:X5:636:GLN:NE2	2.75	0.50
2:P1:16:ILE:HD11	2:P1:68:PRO:HG3	1.92	0.50
1:C7:18:VAL:HG13	1:H6:11:MET:HE3	1.93	0.50
1:H7:62:ARG:HG3	3:Y0:848:ILE:CD1	2.26	0.50
1:J7:32:GLU:CD	1:D7:7:ILE:CD1	2.84	0.50
1:J7:32:GLU:C	1:D7:83:ARG:NH2	2.65	0.50
1:BQ:47:THR:HG23	1:IP:18:VAL:HG23	1.93	0.50
1:BQ:83:ARG:NH1	1:EP:28:THR:O	2.43	0.50
1:BT:47:THR:HG23	1:IS:18:VAL:CG2	2.40	0.50
1:ES:61:VAL:HG12	3:YS:702:ILE:HD11	1.93	0.50
1:HT:68:CYS:SG	1:HT:75:LEU:HD13	2.50	0.50
3:XQ:643:TYR:CE1	1:DN:58:ASN:HB3	2.47	0.50
1:JJ:62:ARG:HH21	3:Xn:624:SER:CB	2.23	0.50
1:JJ:62:ARG:HG2	3:Xn:627:VAL:HG21	1.93	0.50
1:LK:45:TYR:CE2	3:XK:691:ILE:HD11	2.47	0.50
1:CN:72:GLY:HA2	1:HM:77:ALA:HB2	1.93	0.50
1:Be:83:ARG:NH1	1:Ei:28:THR:O	2.43	0.50
1:Hg:62:ARG:HG3	3:Ye:848:ILE:CD1	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bd:47:THR:HG23	1:Ic:18:VAL:HG23	1.93	0.50
1:Cd:18:VAL:HG13	1:Hc:11:MET:HE3	1.93	0.50
1:Ht:55:GLY:HA2	2:Px:13:THR:HG21	1.93	0.50
1:Hu:80:ILE:CD1	3:Yx:848:ILE:HG21	2.41	0.50
3:Xu:643:TYR:CE1	1:Dr:58:ASN:HB3	2.46	0.50
1:Br:61:VAL:HG12	3:Yq:724:ILE:HD13	1.92	0.50
3:Yj:711:GLY:HA2	3:Yj:718:MET:HE3	1.94	0.50
1:J3:19:PRO:HG3	1:J3:72:GLY:HA3	1.93	0.50
1:DS:27:MET:HE2	1:DS:61:VAL:HA	1.94	0.50
3:XJ:696:ARG:HA	3:XJ:700:ASN:HA	1.93	0.50
1:EC:85:HIS:HD2	1:Dq:29:LYS:HA	1.76	0.50
1:HB:68:CYS:SG	1:HB:75:LEU:HD13	2.50	0.50
1:LA:29:LYS:O	1:M1:29:LYS:NZ	2.42	0.50
3:YE:724:ILE:HG13	3:YE:727:THR:HG23	1.93	0.50
1:C3:72:GLY:HA2	1:H2:77:ALA:HB2	1.93	0.50
1:M5:30:ALA:O	1:M0:82:ALA:HB3	2.10	0.50
1:E6:88:VAL:HG21	1:DM:25:ASP:HA	1.94	0.50
1:I8:62:ARG:HG3	3:X8:730:PHE:HB2	1.94	0.50
2:PS:53:VAL:HG22	2:PS:54:GLY:H	1.76	0.50
1:HG:62:ARG:HG3	3:YJ:848:ILE:CD1	2.32	0.50
1:OF:83:ARG:NH2	1:FF:32:GLU:HA	2.26	0.50
1:Jw:45:TYR:CZ	3:Xw:694:PRO:HG3	2.46	0.50
3:Yx:724:ILE:HG13	3:Yx:727:THR:HG23	1.93	0.50
1:Bk:83:ARG:NH1	1:Eo:28:THR:O	2.43	0.50
1:Bs:47:THR:HG23	1:Ir:18:VAL:HG23	1.93	0.50
1:Cr:72:GLY:HA2	1:Hq:77:ALA:HB2	1.93	0.50
1:Oj:80:ILE:O	3:Xj:716:PRO:HD3	2.11	0.50
1:ED:61:VAL:HG12	3:YD:702:ILE:HD11	1.93	0.50
1:E6:87:GLU:OE1	1:DM:28:THR:CG2	2.59	0.50
1:G0:42:GLY:C	1:G0:44:GLY:N	2.69	0.50
1:H6:55:GLY:HA2	2:P0:13:THR:HG21	1.93	0.50
1:H8:62:ARG:CA	3:Y6:848:ILE:HD11	2.37	0.50
1:BP:47:THR:HG23	1:IT:18:VAL:CG2	2.42	0.50
3:YT:724:ILE:HG13	3:YT:727:THR:HG23	1.93	0.50
1:BJ:83:ARG:NH1	1:EI:28:THR:O	2.43	0.50
1:EH:87:GLU:OE1	1:DU:28:THR:CG2	2.60	0.50
1:HK:12:ILE:HG23	1:HK:75:LEU:CD1	2.42	0.50
1:CO:18:VAL:HG13	1:HN:11:MET:HE3	1.93	0.50
1:HM:80:ILE:CD1	3:YF:848:ILE:HG21	2.41	0.50
1:ML:30:ALA:O	1:Mx:82:ALA:HB3	2.12	0.50
1:OF:80:ILE:O	3:XF:716:PRO:HD3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PM:14:ASN:O	2:PN:42:ILE:HD12	2.11	0.50
1:Oh:83:ARG:NH2	1:Fh:32:GLU:HA	2.26	0.50
3:Xi:628:THR:O	1:Jp:80:ILE:N	2.42	0.50
1:DX:59:ALA:HB2	3:Xo:643:TYR:CD1	2.45	0.50
1:MY:82:ALA:HB3	1:Mn:30:ALA:O	2.12	0.50
1:Bw:47:THR:HG23	1:Iv:18:VAL:HG23	1.93	0.50
1:Ct:18:VAL:HG13	1:Hx:11:MET:HE3	1.94	0.50
1:Cv:25:ASP:CA	1:Hu:88:VAL:HG21	2.40	0.50
1:Dx:18:VAL:HG22	1:Ek:11:MET:CB	2.42	0.50
1:Jx:45:TYR:CZ	3:Xx:694:PRO:HG3	2.46	0.50
1:Hj:55:GLY:HA2	2:Ps:13:THR:HG21	1.92	0.50
1:D4:35:LEU:HA	1:D4:50:VAL:HG12	1.94	0.50
1:DS:31:ALA:HB1	1:DS:56:ALA:CB	2.39	0.50
1:DS:31:ALA:CB	1:DS:56:ALA:HB1	2.39	0.50
3:Xm:617:SER:O	1:DF:79:HIS:HA	2.12	0.50
1:Lm:18:VAL:HB	1:Lm:19:PRO:HD3	1.93	0.50
1:BD:83:ARG:NH1	1:EC:28:THR:O	2.43	0.50
1:DE:35:LEU:CD2	1:E1:91:ILE:CG2	2.88	0.50
1:EE:77:ALA:HB1	1:D1:18:VAL:HG11	1.94	0.50
1:HA:62:ARG:HG3	3:YD:848:ILE:CD1	2.32	0.50
1:JE:45:TYR:CZ	3:XE:694:PRO:HG3	2.46	0.50
1:H1:80:ILE:CD1	3:Y4:848:ILE:HG21	2.42	0.50
1:J2:62:ARG:CZ	3:Xg:624:SER:N	2.75	0.50
1:N4:73:ASP:O	3:X4:686:PRO:HB2	2.11	0.50
1:B9:83:ARG:NH1	1:E8:28:THR:O	2.43	0.50
1:H9:12:ILE:HG23	1:H9:75:LEU:CD1	2.42	0.50
1:L8:31:ALA:O	1:Jv:83:ARG:HD2	2.12	0.50
1:CS:18:VAL:HG13	1:HR:11:MET:HE3	1.93	0.50
1:JS:45:TYR:CZ	3:XS:694:PRO:HG3	2.46	0.50
1:BH:47:THR:HG23	1:IG:18:VAL:HG23	1.93	0.50
1:CL:73:ASP:OD2	1:HF:45:TYR:OH	2.20	0.50
1:Bf:47:THR:HG23	1:Ie:18:VAL:HG23	1.93	0.50
1:Di:18:VAL:HG22	1:EV:11:MET:HB3	1.94	0.50
1:Jf:80:ILE:CD1	3:X3:627:VAL:CG1	2.90	0.50
1:Jh:45:TYR:CZ	3:Xh:694:PRO:HG3	2.46	0.50
1:GW:32:GLU:HB2	1:KW:7:ILE:HD11	1.91	0.50
1:HZ:12:ILE:HG23	1:HZ:75:LEU:CD1	2.42	0.50
1:HZ:55:GLY:HA2	2:PY:13:THR:HG21	1.92	0.50
2:PV:76:ILE:HD12	2:PZ:14:ASN:ND2	2.26	0.50
1:Ia:62:ARG:HG3	3:Xa:730:PHE:HB3	1.94	0.50
1:Bl:47:THR:HG23	1:Ik:18:VAL:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hr:12:ILE:HG23	1:Hr:75:LEU:CD1	2.42	0.50
1:Fh:17:LEU:HD23	1:Dh:47:THR:HG21	1.94	0.50
1:EL:13:GLU:OE2	1:EL:41:VAL:HG21	2.12	0.50
1:Df:80:ILE:O	3:X3:618:GLY:HA3	2.12	0.50
1:DF:93:PRO:O	1:DF:94:LYS:C	2.53	0.50
1:CB:72:GLY:HA2	1:HA:77:ALA:HB2	1.94	0.50
1:HE:12:ILE:HG23	1:HE:75:LEU:CD1	2.42	0.50
1:JB:45:TYR:CZ	3:XB:694:PRO:HG3	2.46	0.50
3:XC:616:ILE:HG13	1:Du:62:ARG:HG2	1.94	0.50
1:B1:47:THR:HG23	1:I5:18:VAL:CG2	2.42	0.50
1:J4:15:ARG:HG2	3:X4:694:PRO:HB2	1.94	0.50
1:J7:7:ILE:HD11	1:Lw:32:GLU:HB2	1.93	0.50
1:HP:12:ILE:HG23	1:HP:75:LEU:CD1	2.42	0.50
2:PP:76:ILE:HD12	2:PT:14:ASN:ND2	2.27	0.50
1:MG:82:ALA:HB3	1:MO:30:ALA:O	2.12	0.50
1:BL:47:THR:HG23	1:IF:18:VAL:CG2	2.42	0.50
1:Jg:45:TYR:CZ	3:Xg:694:PRO:HG3	2.46	0.50
1:Mi:29:LYS:NZ	1:LW:29:LYS:O	2.41	0.50
1:Nf:80:ILE:O	3:Ye:716:PRO:HD3	2.12	0.50
1:HW:80:ILE:CD1	3:YZ:848:ILE:HG21	2.41	0.50
1:HY:12:ILE:HG23	1:HY:75:LEU:CD1	2.42	0.50
1:LZ:45:TYR:CE2	3:XZ:691:ILE:HD11	2.47	0.50
1:NY:73:ASP:O	3:XY:686:PRO:HB2	2.11	0.50
1:Cb:18:VAL:HG13	1:Ha:11:MET:HE3	1.93	0.50
1:Ea:85:HIS:CE1	1:DS:28:THR:CG2	2.95	0.50
1:Lt:15:ARG:HG2	3:Xt:691:ILE:HG23	1.93	0.50
2:Pt:53:VAL:HB	2:Pt:74:ILE:HD13	1.94	0.50
1:Jn:62:ARG:HH11	3:XY:620:SER:HB3	1.73	0.50
1:Cq:72:GLY:HA2	1:Hp:77:ALA:HB2	1.94	0.50
1:DS:19:PRO:HG3	1:DS:72:GLY:HA3	1.93	0.50
1:DY:19:PRO:HG3	1:DY:72:GLY:HA3	1.93	0.50
1:DY:22:GLU:HG2	1:DY:71:VAL:HG21	1.92	0.50
1:MK:30:ALA:O	1:MF:82:ALA:HB3	2.10	0.50
1:JF:87:GLU:HB2	1:MF:28:THR:HG21	1.94	0.50
1:CA:18:VAL:HG13	1:HE:11:MET:HE3	1.94	0.50
1:CD:18:VAL:HG13	1:HC:11:MET:HE3	1.93	0.50
1:D3:58:ASN:CG	3:Xc:621:VAL:HG21	2.37	0.50
1:J7:62:ARG:HD3	3:Xw:620:SER:O	2.12	0.50
2:P6:76:ILE:HD12	2:P0:14:ASN:ND2	2.26	0.50
1:HP:80:ILE:CD1	3:YS:848:ILE:HG21	2.42	0.50
1:CH:72:GLY:HA2	1:HG:77:ALA:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EJ:11:MET:CB	1:Dm:18:VAL:HG22	2.42	0.50
1:HO:62:ARG:HG3	3:YM:848:ILE:CD1	2.24	0.50
1:He:12:ILE:HG23	1:He:75:LEU:CD1	2.42	0.50
1:CV:18:VAL:HG13	1:HZ:11:MET:HE3	1.94	0.50
1:CY:72:GLY:HA2	1:HX:77:ALA:HB2	1.94	0.50
1:HV:55:GLY:HA2	2:PZ:13:THR:HG21	1.93	0.50
1:MV:82:ALA:HB3	1:Md:30:ALA:O	2.12	0.50
1:Bb:47:THR:HG23	1:Ia:18:VAL:HG23	1.93	0.50
1:Hq:12:ILE:HG23	1:Hq:75:LEU:CD1	2.42	0.50
2:Pp:76:ILE:HD12	2:Pj:14:ASN:ND2	2.26	0.50
1:L3:65:ALA:C	3:X3:636:GLN:HE22	2.20	0.50
1:DH:11:MET:HE2	1:DH:81:ILE:HG13	1.94	0.50
1:BB:47:THR:HG23	1:IA:18:VAL:HG23	1.93	0.49
1:B6:79:HIS:HA	3:Y0:725:THR:O	2.12	0.49
1:C8:72:GLY:HA2	1:H7:77:ALA:HB2	1.93	0.49
1:D0:18:VAL:HG22	1:EQ:11:MET:HB3	1.94	0.49
1:H7:80:ILE:CD1	3:Y0:848:ILE:HG21	2.41	0.49
1:O0:80:ILE:O	3:X0:716:PRO:HD3	2.11	0.49
1:DP:58:ASN:HB3	3:XO:643:TYR:CE1	2.46	0.49
1:ES:91:ILE:CG2	1:Da:35:LEU:CD2	2.89	0.49
1:GR:68:CYS:HA	1:GR:71:VAL:CG1	2.42	0.49
1:LS:65:ALA:HB3	3:XS:636:GLN:OE1	2.12	0.49
2:PP:53:VAL:HB	2:PP:74:ILE:HD13	1.94	0.49
1:CJ:18:VAL:HG13	1:HI:11:MET:HE3	1.93	0.49
1:BL:79:HIS:HA	3:YF:725:THR:O	2.12	0.49
1:CO:72:GLY:HA2	1:HN:77:ALA:HB2	1.94	0.49
1:DL:55:GLY:HA2	3:Xx:643:TYR:CE2	2.47	0.49
1:FM:79:HIS:HA	3:XM:725:THR:O	2.12	0.49
1:IN:62:ARG:HG3	3:XN:730:PHE:HB2	1.94	0.49
1:Bh:47:THR:HG23	1:Ig:18:VAL:HG23	1.93	0.49
1:Ji:72:GLY:HA2	1:Oi:77:ALA:HB2	1.94	0.49
1:LY:83:ARG:HB2	1:Dn:31:ALA:HA	1.94	0.49
1:Gb:68:CYS:HA	1:Gb:71:VAL:CG1	2.43	0.49
1:Ha:80:ILE:CD1	3:Yd:848:ILE:HG21	2.42	0.49
1:Ic:62:ARG:HG3	3:Xc:730:PHE:HB2	1.94	0.49
1:Ev:91:ILE:HG23	1:D7:35:LEU:HD23	1.94	0.49
2:Pw:53:VAL:HG22	2:Pw:54:GLY:H	1.76	0.49
1:Hk:12:ILE:HG23	1:Hk:75:LEU:CD1	2.42	0.49
1:Hm:12:ILE:HG23	1:Hm:75:LEU:CD1	2.42	0.49
1:Nn:73:ASP:O	3:Xn:686:PRO:HB2	2.11	0.49
2:Pk:57:ALA:HB1	2:Po:68:PRO:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pk:76:ILE:HD12	2:Po:14:ASN:ND2	2.26	0.49
1:Gj:62:ARG:HG2	3:Ys:785:VAL:HG21	1.92	0.49
1:Lq:15:ARG:HG2	3:Xq:691:ILE:HG23	1.94	0.49
3:X4:696:ARG:HA	3:X4:700:ASN:HA	1.93	0.49
1:D7:82:ALA:HB2	3:Xw:619:THR:HG21	1.93	0.49
3:Xq:725:THR:O	1:Fq:79:HIS:HA	2.12	0.49
1:LN:62:ARG:CZ	3:XN:644:VAL:HG13	2.26	0.49
1:Fh:34:ARG:HG2	1:Fh:51:ARG:O	2.12	0.49
3:XX:637:LEU:HA	3:XX:649:THR:HG23	1.93	0.49
1:EC:13:GLU:HB2	1:Dq:18:VAL:HG23	1.93	0.49
1:EC:81:ILE:HG21	1:Dq:25:ASP:OD2	2.13	0.49
1:LA:15:ARG:HG2	3:XA:691:ILE:HG23	1.93	0.49
1:MB:29:LYS:NZ	1:Lv:29:LYS:O	2.43	0.49
1:MB:30:ALA:O	1:Mv:82:ALA:HB3	2.13	0.49
1:C1:18:VAL:HG13	1:H5:11:MET:HE3	1.94	0.49
1:H2:12:ILE:HG23	1:H2:75:LEU:CD1	2.42	0.49
1:H3:12:ILE:HG23	1:H3:75:LEU:CD1	2.42	0.49
1:B6:47:THR:HG23	1:I0:18:VAL:CG2	2.42	0.49
1:C9:72:GLY:HA2	1:H8:77:ALA:HB2	1.94	0.49
1:H8:12:ILE:HG23	1:H8:75:LEU:CD1	2.42	0.49
1:OP:80:ILE:O	3:XP:716:PRO:HD3	2.11	0.49
1:CG:18:VAL:HG13	1:HK:11:MET:HE3	1.94	0.49
1:FI:37:GLY:HA2	1:FI:96:PRO:HA	1.95	0.49
1:HK:55:GLY:HA2	2:PJ:13:THR:HG21	1.92	0.49
1:GM:68:CYS:HA	1:GM:71:VAL:CG1	2.43	0.49
1:HL:55:GLY:HA2	2:PF:13:THR:HG21	1.93	0.49
1:Ae:69:GLU:O	3:Yh:841:PRO:CG	2.38	0.49
1:Ei:77:ALA:HB1	1:DV:18:VAL:HG11	1.94	0.49
1:Hg:12:ILE:HG23	1:Hg:75:LEU:CD1	2.42	0.49
1:Le:15:ARG:HG2	3:Xe:691:ILE:HG23	1.93	0.49
3:Xi:643:TYR:CE2	1:Dp:55:GLY:O	2.65	0.49
1:Fb:79:HIS:HA	3:Xb:725:THR:O	2.12	0.49
1:Lc:65:ALA:CB	3:Xc:636:GLN:HG2	2.42	0.49
2:Pd:14:ASN:ND2	2:PU:76:ILE:HD12	2.27	0.49
1:Bw:68:CYS:SG	1:Bw:75:LEU:HD13	2.53	0.49
1:Jn:43:GLY:O	3:Xn:694:PRO:HG2	2.12	0.49
2:Pn:14:ASN:ND2	2:Po:76:ILE:HD12	2.27	0.49
1:Bp:47:THR:HG23	1:Ij:18:VAL:CG2	2.42	0.49
1:Cq:18:VAL:HG13	1:Hp:11:MET:HE3	1.93	0.49
1:Gp:68:CYS:HA	1:Gp:71:VAL:CG1	2.43	0.49
1:Ip:62:ARG:HG3	3:Xp:730:PHE:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EL:85:HIS:HB3	1:EL:88:VAL:HG23	1.94	0.49
1:Df:55:GLY:HA2	3:X3:643:TYR:CE2	2.46	0.49
1:BC:68:CYS:SG	1:BC:75:LEU:HD13	2.53	0.49
1:HD:12:ILE:HG23	1:HD:75:LEU:CD1	2.42	0.49
1:B1:47:THR:CG2	1:I5:18:VAL:CG2	2.88	0.49
1:H5:12:ILE:HG23	1:H5:75:LEU:CD1	2.42	0.49
1:J2:43:GLY:O	3:X2:694:PRO:HG2	2.11	0.49
1:J4:82:ALA:HB3	1:LS:30:ALA:O	2.12	0.49
1:B9:47:THR:HG23	1:I8:18:VAL:HG23	1.93	0.49
1:F7:79:HIS:HA	3:X7:725:THR:O	2.12	0.49
1:G6:68:CYS:HA	1:G6:71:VAL:CG1	2.43	0.49
1:J7:62:ARG:NH1	3:Xw:622:ASP:O	2.45	0.49
3:X6:627:VAL:CG2	1:JQ:62:ARG:HG2	2.34	0.49
1:CQ:72:GLY:HA2	1:HP:77:ALA:HB2	1.94	0.49
1:DT:18:VAL:HG22	1:EG:11:MET:CB	2.41	0.49
1:ES:87:GLU:OE1	1:Da:28:THR:CG2	2.61	0.49
2:PP:14:ASN:O	3:YT:851:SER:HB3	2.13	0.49
1:BG:68:CYS:SG	1:BG:75:LEU:HD13	2.53	0.49
1:HJ:12:ILE:HG23	1:HJ:75:LEU:CD1	2.42	0.49
1:JJ:15:ARG:HG2	3:XJ:694:PRO:HB2	1.94	0.49
1:HF:12:ILE:HG23	1:HF:75:LEU:CD1	2.42	0.49
1:JM:79:HIS:CD2	3:X7:628:THR:OG1	2.65	0.49
3:YF:711:GLY:HA2	3:YF:718:MET:HE3	1.94	0.49
1:Bh:68:CYS:SG	1:Bh:75:LEU:HD13	2.53	0.49
3:Xf:643:TYR:CE1	1:Dc:58:ASN:HB3	2.46	0.49
1:BV:83:ARG:NH1	1:EZ:28:THR:O	2.43	0.49
1:GV:68:CYS:HA	1:GV:71:VAL:CG1	2.43	0.49
1:HX:12:ILE:HG23	1:HX:75:LEU:CD1	2.42	0.49
1:JZ:22:GLU:HG2	1:JZ:71:VAL:HG21	1.95	0.49
1:Ec:58:ASN:HB2	3:Yc:707:ILE:HD13	1.95	0.49
1:Cw:18:VAL:HG13	1:Hv:11:MET:HE3	1.93	0.49
1:Dx:18:VAL:HG22	1:Ek:11:MET:HB3	1.94	0.49
1:Jx:72:GLY:HA2	1:Ox:77:ALA:HB2	1.95	0.49
1:Bk:68:CYS:SG	1:Bk:75:LEU:HD13	2.53	0.49
1:Bn:47:THR:HG23	1:Im:18:VAL:HG23	1.93	0.49
1:Bs:83:ARG:NH1	1:Er:28:THR:O	2.43	0.49
1:Cs:18:VAL:HG22	1:Hr:11:MET:CB	2.43	0.49
1:Gj:42:GLY:C	1:Gj:44:GLY:H	2.18	0.49
1:Hp:12:ILE:HG23	1:Hp:75:LEU:CD1	2.42	0.49
1:DD:15:ARG:HB2	1:DD:73:ASP:HB3	1.94	0.49
1:DS:49:LEU:HD12	1:DS:93:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LM:15:ARG:HG2	3:XM:691:ILE:HG23	1.94	0.49
1:EL:19:PRO:HG3	1:EL:72:GLY:HA3	1.92	0.49
1:BA:68:CYS:SG	1:BA:75:LEU:HD13	2.53	0.49
1:BE:68:CYS:SG	1:BE:75:LEU:HD13	2.53	0.49
1:GA:68:CYS:HA	1:GA:71:VAL:CG1	2.43	0.49
1:HA:55:GLY:HA2	2:PE:13:THR:HG21	1.93	0.49
1:B2:68:CYS:SG	1:B2:75:LEU:HD13	2.53	0.49
1:B3:68:CYS:SG	1:B3:75:LEU:HD13	2.53	0.49
1:G4:68:CYS:HA	1:G4:71:VAL:CG1	2.43	0.49
1:B0:68:CYS:SG	1:B0:75:LEU:HD13	2.53	0.49
1:C7:72:GLY:HA2	1:H6:77:ALA:HB2	1.94	0.49
1:BQ:68:CYS:SG	1:BQ:75:LEU:HD13	2.53	0.49
1:CS:72:GLY:HA2	1:HR:77:ALA:HB2	1.94	0.49
1:DP:35:LEU:CD2	1:EN:91:ILE:HG21	2.43	0.49
1:HR:80:ILE:HD12	3:YP:848:ILE:HG21	1.92	0.49
1:HT:12:ILE:HG23	1:HT:75:LEU:CD1	2.42	0.49
1:BH:68:CYS:SG	1:BH:75:LEU:HD13	2.53	0.49
1:BI:68:CYS:SG	1:BI:75:LEU:HD13	2.53	0.49
1:BK:68:CYS:SG	1:BK:75:LEU:HD13	2.53	0.49
1:NJ:73:ASP:O	3:XJ:686:PRO:HB2	2.11	0.49
1:BF:68:CYS:SG	1:BF:75:LEU:HD13	2.53	0.49
1:BN:68:CYS:SG	1:BN:75:LEU:HD13	2.53	0.49
1:HL:12:ILE:HG23	1:HL:75:LEU:CD1	2.42	0.49
1:JO:72:GLY:HA2	1:OO:77:ALA:HB2	1.95	0.49
2:PO:14:ASN:ND2	2:PF:76:ILE:HD12	2.27	0.49
1:Ee:62:ARG:CB	3:Ye:732:HIS:NE2	2.59	0.49
1:BZ:62:ARG:HB3	3:YY:720:ALA:HB3	1.95	0.49
1:CV:18:VAL:HG22	1:HZ:11:MET:CB	2.43	0.49
1:GX:68:CYS:HA	1:GX:71:VAL:CG1	2.43	0.49
1:HV:12:ILE:HG23	1:HV:75:LEU:CD1	2.42	0.49
1:Ca:18:VAL:HG13	1:HU:11:MET:HE3	1.94	0.49
1:Fb:18:VAL:HG21	1:Db:13:GLU:CG	2.08	0.49
1:GU:11:MET:HG2	1:GU:49:LEU:HD23	1.94	0.49
1:Gc:68:CYS:HA	1:Gc:71:VAL:CG1	2.43	0.49
3:YU:711:GLY:HA2	3:YU:718:MET:HE3	1.94	0.49
1:Cu:72:GLY:HA2	1:Ht:77:ALA:HB2	1.94	0.49
1:Dv:79:HIS:CB	3:X8:617:SER:O	2.61	0.49
1:Gw:68:CYS:HA	1:Gw:71:VAL:CG1	2.43	0.49
1:Hu:12:ILE:HG23	1:Hu:75:LEU:CD1	2.42	0.49
1:Bo:62:ARG:HB3	3:Yn:720:ALA:HB3	1.94	0.49
1:Gk:68:CYS:HA	1:Gk:71:VAL:CG1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ll:79:HIS:HA	3:Xl:639:SER:O	2.12	0.49
1:Ap:91:ILE:HD13	1:Bp:35:LEU:HD21	1.94	0.49
1:Br:68:CYS:SG	1:Br:75:LEU:HD13	2.53	0.49
1:Gs:68:CYS:HA	1:Gs:71:VAL:CG1	2.43	0.49
1:Hp:62:ARG:HG3	3:Ys:848:ILE:CD1	2.32	0.49
2:Pp:14:ASN:O	3:Yj:851:SER:HB3	2.13	0.49
1:JC:22:GLU:HG2	1:JC:71:VAL:HG21	1.95	0.49
1:JI:22:GLU:HG2	1:JI:71:VAL:HG21	1.95	0.49
1:BA:47:THR:HG23	1:IE:18:VAL:CG2	2.42	0.49
1:BB:68:CYS:SG	1:BB:75:LEU:HD13	2.53	0.49
1:DB:62:ARG:NH1	3:Xv:643:TYR:O	2.45	0.49
1:GE:68:CYS:HA	1:GE:71:VAL:CG1	2.43	0.49
1:HB:12:ILE:HG23	1:HB:75:LEU:CD1	2.42	0.49
1:LE:30:ALA:O	1:Jg:82:ALA:HB3	2.13	0.49
2:PA:14:ASN:O	3:YE:851:SER:HB3	2.13	0.49
1:B5:68:CYS:SG	1:B5:75:LEU:HD13	2.53	0.49
1:C4:18:VAL:HG13	1:H3:11:MET:HE3	1.93	0.49
1:G5:68:CYS:HA	1:G5:71:VAL:CG1	2.43	0.49
1:M2:30:ALA:O	1:Mg:82:ALA:HB3	2.12	0.49
1:C6:18:VAL:HG13	1:H0:11:MET:HE3	1.94	0.49
1:D0:62:ARG:HG2	3:XR:616:ILE:HG13	1.95	0.49
1:J7:72:GLY:HA2	1:O7:77:ALA:HB2	1.95	0.49
1:M8:82:ALA:HB3	1:Mv:30:ALA:O	2.12	0.49
2:P9:14:ASN:ND2	2:P0:76:ILE:HD12	2.27	0.49
1:BP:47:THR:CG2	1:IT:18:VAL:CG2	2.88	0.49
1:BQ:79:HIS:HA	3:YP:725:THR:O	2.11	0.49
1:GG:68:CYS:HA	1:GG:71:VAL:CG1	2.43	0.49
1:GK:68:CYS:HA	1:GK:71:VAL:CG1	2.43	0.49
1:HG:55:GLY:HA2	2:PK:13:THR:HG21	1.93	0.49
1:HH:12:ILE:HG23	1:HH:75:LEU:CD1	2.42	0.49
1:JG:22:GLU:HG2	1:JG:71:VAL:HG21	1.95	0.49
1:LH:79:HIS:HA	3:XH:639:SER:O	2.12	0.49
2:PJ:14:ASN:ND2	2:PK:76:ILE:HD12	2.27	0.49
1:BL:41:VAL:HG13	1:IF:40:PHE:CD1	2.48	0.49
1:BL:68:CYS:SG	1:BL:75:LEU:HD13	2.53	0.49
1:BL:84:VAL:HG11	1:BL:92:LEU:HD11	1.94	0.49
1:CM:18:VAL:HG13	1:HL:11:MET:HE3	1.93	0.49
1:GN:68:CYS:HA	1:GN:71:VAL:CG1	2.43	0.49
1:HN:12:ILE:HG23	1:HN:75:LEU:CD1	2.42	0.49
1:JL:22:GLU:HG2	1:JL:71:VAL:HG21	1.95	0.49
1:Bg:68:CYS:SG	1:Bg:75:LEU:HD13	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pe:76:ILE:HD12	2:Pi:14:ASN:ND2	2.27	0.49
1:BW:47:THR:HG23	1:IV:18:VAL:HG23	1.93	0.49
1:CY:18:VAL:HG13	1:HX:11:MET:HE3	1.93	0.49
1:DW:88:VAL:HG21	1:FW:25:ASP:HA	1.95	0.49
1:EX:91:ILE:HG21	1:Dn:35:LEU:HD21	1.95	0.49
1:JW:72:GLY:HA2	1:OW:77:ALA:HB2	1.95	0.49
1:OW:78:ALA:HB3	3:XW:712:ARG:O	2.13	0.49
2:PV:57:ALA:HB1	2:PZ:68:PRO:HA	1.94	0.49
1:Bb:68:CYS:SG	1:Bb:75:LEU:HD13	2.53	0.49
1:Bd:68:CYS:SG	1:Bd:75:LEU:HD13	2.53	0.49
1:HU:12:ILE:HG23	1:HU:75:LEU:CD1	2.42	0.49
1:Ja:22:GLU:HG2	1:Ja:71:VAL:HG21	1.95	0.49
1:Jb:22:GLU:HG2	1:Jb:71:VAL:HG21	1.95	0.49
1:Jd:72:GLY:HA2	1:Od:77:ALA:HB2	1.95	0.49
1:Lb:15:ARG:HG2	3:Xb:691:ILE:HG23	1.94	0.49
2:Pc:53:VAL:O	2:Pc:71:LEU:HD12	2.13	0.49
1:Cu:18:VAL:HG13	1:Ht:11:MET:HE3	1.93	0.49
1:Gx:68:CYS:HA	1:Gx:71:VAL:CG1	2.43	0.49
1:Jt:22:GLU:HG2	1:Jt:71:VAL:HG21	1.95	0.49
3:Xv:694:PRO:HG2	1:Jv:45:TYR:CE2	2.44	0.49
1:Bm:68:CYS:SG	1:Bm:75:LEU:HD13	2.53	0.49
1:Bn:68:CYS:SG	1:Bn:75:LEU:HD13	2.53	0.49
1:Cj:25:ASP:CA	1:Hs:88:VAL:HG21	2.43	0.49
1:Hs:12:ILE:HG23	1:Hs:75:LEU:CD1	2.42	0.49
1:Jj:72:GLY:HA2	1:Oj:77:ALA:HB2	1.95	0.49
1:D4:9:LEU:HD11	1:D4:49:LEU:HB3	1.95	0.49
3:X4:642:ALA:O	1:Db:62:ARG:HD3	2.12	0.49
1:JI:72:GLY:HA2	1:OI:77:ALA:HB2	1.95	0.49
1:CA:18:VAL:HG22	1:HE:11:MET:CB	2.43	0.49
1:CD:72:GLY:HA2	1:HC:77:ALA:HB2	1.94	0.49
1:DB:7:ILE:HD11	1:DB:83:ARG:HG3	1.95	0.49
1:JA:22:GLU:HG2	1:JA:71:VAL:HG21	1.95	0.49
1:JD:62:ARG:NE	3:Xh:624:SER:HB2	2.27	0.49
1:OD:85:HIS:NE2	1:DD:83:ARG:CZ	2.76	0.49
3:XA:643:TYR:CE1	1:D1:58:ASN:HB3	2.48	0.49
1:B5:62:ARG:HB3	3:Y4:720:ALA:HB3	1.95	0.49
1:H4:12:ILE:HG23	1:H4:75:LEU:CD1	2.42	0.49
1:M1:82:ALA:HB3	1:M9:30:ALA:O	2.12	0.49
1:M5:82:ALA:HB3	1:MR:30:ALA:O	2.12	0.49
1:O4:80:ILE:O	3:X4:716:PRO:HD3	2.13	0.49
1:H7:12:ILE:HG23	1:H7:75:LEU:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CS:18:VAL:HG22	1:HR:11:MET:CB	2.43	0.49
1:FS:71:VAL:HG11	1:DS:79:HIS:CD2	2.48	0.49
1:GP:68:CYS:HA	1:GP:71:VAL:CG1	2.42	0.49
1:JS:72:GLY:HA2	1:OS:77:ALA:HB2	1.95	0.49
1:LP:15:ARG:HG2	3:XP:691:ILE:HG23	1.93	0.49
1:NQ:80:ILE:O	3:YP:716:PRO:HD3	2.12	0.49
2:PR:68:PRO:HA	2:PS:57:ALA:HB1	1.94	0.49
1:CG:18:VAL:HG22	1:HK:11:MET:CB	2.43	0.49
2:PG:14:ASN:O	3:YK:851:SER:HB3	2.13	0.49
1:BO:79:HIS:HA	3:YN:725:THR:O	2.13	0.49
1:CL:18:VAL:HG13	1:HF:11:MET:HE3	1.94	0.49
1:HM:12:ILE:HG23	1:HM:75:LEU:CD1	2.42	0.49
2:PN:53:VAL:O	2:PN:71:LEU:HD12	2.13	0.49
1:Be:68:CYS:SG	1:Be:75:LEU:HD13	2.53	0.49
1:Ce:18:VAL:HG22	1:Hi:11:MET:CB	2.43	0.49
1:Ge:68:CYS:HA	1:Ge:71:VAL:CG1	2.43	0.49
1:Gh:68:CYS:HA	1:Gh:71:VAL:CG1	2.43	0.49
1:JV:22:GLU:HG2	1:JV:71:VAL:HG21	1.95	0.49
1:JW:22:GLU:HG2	1:JW:71:VAL:HG21	1.95	0.49
1:LY:83:ARG:NH1	1:Dn:31:ALA:O	2.46	0.49
3:XZ:643:TYR:CE1	1:DI:59:ALA:N	2.79	0.49
1:Ac:69:GLU:C	3:Ya:841:PRO:HG3	2.27	0.49
1:Bc:68:CYS:SG	1:Bc:75:LEU:HD13	2.53	0.49
1:Bd:79:HIS:HA	3:Yc:725:THR:O	2.13	0.49
1:Cd:25:ASP:CA	1:Hc:88:VAL:HG21	2.43	0.49
1:GU:42:GLY:C	1:GU:44:GLY:N	2.69	0.49
1:Hd:12:ILE:HG23	1:Hd:75:LEU:CD1	2.42	0.49
1:Hd:80:ILE:CD1	3:Yb:848:ILE:CG2	2.91	0.49
1:Jc:72:GLY:HA2	1:Oc:77:ALA:HB2	1.95	0.49
1:Jd:22:GLU:HG2	1:Jd:71:VAL:HG21	1.95	0.49
1:Av:69:GLU:O	3:Yt:841:PRO:CG	2.37	0.49
1:Bt:68:CYS:SG	1:Bt:75:LEU:HD13	2.53	0.49
1:Gt:68:CYS:HA	1:Gt:71:VAL:CG1	2.43	0.49
1:Hw:80:ILE:CD1	3:Yu:848:ILE:CG2	2.91	0.49
1:Jw:22:GLU:HG2	1:Jw:71:VAL:HG21	1.95	0.49
1:Bk:41:VAL:HG13	1:Io:40:PHE:CD1	2.48	0.49
1:Bk:47:THR:HG23	1:Io:18:VAL:CG2	2.42	0.49
1:Jo:72:GLY:HA2	1:Oo:77:ALA:HB2	1.95	0.49
1:Ol:78:ALA:HB3	3:Xl:712:ARG:O	2.13	0.49
1:Bp:83:ARG:NH1	1:Ej:28:THR:O	2.43	0.49
1:Bq:83:ARG:NH1	1:Ep:28:THR:O	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jj:22:GLU:HG2	1:Jj:71:VAL:HG21	1.95	0.49
1:Jr:22:GLU:HG2	1:Jr:71:VAL:HG21	1.95	0.49
2:Pr:53:VAL:O	2:Pr:71:LEU:HD12	2.13	0.49
1:Dw:58:ASN:HB3	3:XM:643:TYR:CE1	2.46	0.49
1:Dl:41:VAL:HB	1:Dl:45:TYR:HB2	1.95	0.49
1:DB:36:VAL:HG23	1:DB:49:LEU:O	2.13	0.49
1:DB:62:ARG:HD3	3:Xv:616:ILE:HG13	1.93	0.49
1:JE:72:GLY:HA2	1:OE:77:ALA:HB2	1.95	0.49
1:B1:68:CYS:SG	1:B1:75:LEU:HD13	2.53	0.49
1:B4:68:CYS:SG	1:B4:75:LEU:HD13	2.53	0.49
1:J1:72:GLY:HA2	1:O1:77:ALA:HB2	1.95	0.49
1:L2:79:HIS:HA	3:X2:639:SER:O	2.12	0.49
2:P1:14:ASN:O	3:Y5:851:SER:HB3	2.13	0.49
1:A0:69:GLU:C	3:Y8:841:PRO:HG3	2.24	0.49
1:C7:18:VAL:HG22	1:H6:11:MET:CB	2.43	0.49
2:P6:14:ASN:O	3:Y0:851:SER:HB3	2.13	0.49
3:Y0:711:GLY:HA2	3:Y0:718:MET:HE3	1.94	0.49
1:DT:35:LEU:CD2	1:EG:91:ILE:CG2	2.89	0.49
1:JS:62:ARG:NE	3:Xb:624:SER:HB2	2.23	0.49
1:LS:65:ALA:HB3	3:XS:636:GLN:CD	2.37	0.49
3:XP:643:TYR:CE1	1:DG:58:ASN:HB3	2.48	0.49
1:BG:47:THR:HG23	1:IK:18:VAL:CG2	2.42	0.49
1:DG:88:VAL:HG21	1:FG:25:ASP:HA	1.95	0.49
1:HI:12:ILE:HG23	1:HI:75:LEU:CD1	2.42	0.49
1:JH:22:GLU:HG2	1:JH:71:VAL:HG21	1.95	0.49
1:JJ:22:GLU:HG2	1:JJ:71:VAL:HG21	1.95	0.49
1:BO:68:CYS:SG	1:BO:75:LEU:HD13	2.53	0.49
1:HL:80:ILE:CD1	3:YO:848:ILE:HG21	2.42	0.49
2:PL:76:ILE:HD12	2:PF:14:ASN:ND2	2.27	0.49
1:Be:41:VAL:HG13	1:Ii:40:PHE:CD1	2.48	0.49
1:Bi:62:ARG:HB3	3:Yh:720:ALA:HB3	1.95	0.49
1:Ch:18:VAL:HG22	1:Hg:11:MET:CB	2.43	0.49
1:Jh:72:GLY:HA2	1:Oh:77:ALA:HB2	1.95	0.49
2:Pe:53:VAL:HB	2:Pe:74:ILE:HD13	1.94	0.49
2:Pi:14:ASN:O	3:Yh:851:SER:HB3	2.13	0.49
1:BV:47:THR:HG23	1:IZ:18:VAL:CG2	2.42	0.49
1:GZ:68:CYS:HA	1:GZ:71:VAL:CG1	2.43	0.49
1:HY:80:ILE:CD1	3:YW:848:ILE:CG2	2.91	0.49
2:PV:14:ASN:O	3:YZ:851:SER:HB3	2.13	0.49
1:Jc:22:GLU:HG2	1:Jc:71:VAL:HG21	1.95	0.49
1:Bx:68:CYS:SG	1:Bx:75:LEU:HD13	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ht:12:ILE:HG23	1:Ht:75:LEU:CD1	2.42	0.49
1:Hw:12:ILE:HG23	1:Hw:75:LEU:CD1	2.42	0.49
1:Jw:80:ILE:CD1	3:XM:627:VAL:CG1	2.90	0.49
1:Cn:18:VAL:HG22	1:Hm:11:MET:CB	2.43	0.49
1:Gn:68:CYS:HA	1:Gn:71:VAL:CG1	2.43	0.49
1:Jn:62:ARG:NH1	3:XY:620:SER:CB	2.69	0.49
1:Gr:68:CYS:HA	1:Gr:71:VAL:CG1	2.43	0.49
1:Hs:80:ILE:CD1	3:Yq:848:ILE:CG2	2.91	0.49
1:Js:22:GLU:HG2	1:Js:71:VAL:HG21	1.95	0.49
1:J3:22:GLU:HG2	1:J3:71:VAL:HG21	1.95	0.49
1:Fq:71:VAL:CG1	1:Dq:79:HIS:HD2	2.25	0.49
1:CB:18:VAL:HG22	1:HA:11:MET:CB	2.43	0.49
1:DA:88:VAL:HG21	1:FA:25:ASP:HA	1.95	0.49
1:EC:13:GLU:HB2	1:Dq:18:VAL:CG2	2.43	0.49
1:HC:12:ILE:HG23	1:HC:75:LEU:CD1	2.42	0.49
1:JB:22:GLU:HG2	1:JB:71:VAL:HG21	1.95	0.49
1:JD:22:GLU:HG2	1:JD:71:VAL:HG21	1.95	0.49
2:PC:14:ASN:O	3:YB:851:SER:HB3	2.13	0.49
2:PE:14:ASN:O	3:YD:851:SER:HB3	2.13	0.49
1:D5:88:VAL:HG21	1:F5:25:ASP:HA	1.95	0.49
1:O2:78:ALA:HB3	3:X2:712:ARG:O	2.13	0.49
1:B0:91:ILE:HD11	1:I9:21:ILE:HD13	1.90	0.49
1:B8:68:CYS:SG	1:B8:75:LEU:HD13	2.53	0.49
1:G8:68:CYS:HA	1:G8:71:VAL:CG1	2.43	0.49
1:G9:68:CYS:HA	1:G9:71:VAL:CG1	2.43	0.49
1:H9:80:ILE:CD1	3:Y7:848:ILE:CG2	2.91	0.49
3:X6:616:ILE:HD12	1:DQ:61:VAL:HG12	1.95	0.49
1:BP:41:VAL:HG13	1:IT:40:PHE:CD1	2.48	0.49
1:CP:18:VAL:HG13	1:HT:11:MET:HE3	1.94	0.49
1:DT:18:VAL:HG22	1:EG:11:MET:HB3	1.94	0.49
1:HS:12:ILE:HG23	1:HS:75:LEU:CD1	2.42	0.49
2:PK:14:ASN:O	3:YJ:851:SER:HB3	2.13	0.49
1:DN:88:VAL:HG21	1:FN:25:ASP:HA	1.95	0.49
1:Be:47:THR:HG23	1:Ii:18:VAL:CG2	2.42	0.49
1:Bi:68:CYS:SG	1:Bi:75:LEU:HD13	2.53	0.49
1:Ch:18:VAL:HG13	1:Hg:11:MET:HE3	1.93	0.49
1:De:97:GLN:HA	1:Ec:90:ASN:CB	2.26	0.49
1:BZ:68:CYS:SG	1:BZ:75:LEU:HD13	2.53	0.49
1:MX:30:ALA:O	1:Mo:82:ALA:HB3	2.12	0.49
1:OY:80:ILE:O	3:XY:716:PRO:HD3	2.13	0.49
1:Ca:18:VAL:HG22	1:HU:11:MET:CB	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Gd:68:CYS:HA	1:Gd:71:VAL:CG1	2.43	0.49
1:Hb:12:ILE:HG23	1:Hb:75:LEU:CD1	2.42	0.49
1:OU:77:ALA:HB2	1:JU:72:GLY:HA2	1.95	0.49
2:Pa:14:ASN:O	3:YU:851:SER:HB3	2.13	0.49
1:Ev:92:LEU:HD23	1:D7:21:ILE:CD1	2.42	0.49
1:Jt:72:GLY:HA2	1:Ot:77:ALA:HB2	1.95	0.49
1:Ju:72:GLY:HA2	1:Ou:77:ALA:HB2	1.95	0.49
3:Xv:694:PRO:CB	1:Jv:45:TYR:CZ	2.95	0.49
1:Ak:69:GLU:O	3:Yn:841:PRO:CG	2.38	0.49
1:Go:68:CYS:HA	1:Go:71:VAL:CG1	2.43	0.49
1:Jn:72:GLY:HA2	1:On:77:ALA:HB2	1.95	0.49
2:Po:14:ASN:O	3:Yn:851:SER:HB3	2.13	0.49
1:Gq:68:CYS:HA	1:Gq:71:VAL:CG1	2.43	0.49
1:Jp:72:GLY:HA2	1:Op:77:ALA:HB2	1.95	0.49
1:D7:58:ASN:HD22	1:D7:80:ILE:HD13	1.78	0.49
1:Fq:71:VAL:CG1	1:Dq:79:HIS:CD2	2.96	0.49
1:Dq:36:VAL:O	1:Dq:95:ALA:HB3	2.13	0.49
3:X3:635:GLN:HA	3:X3:648:GLN:O	2.13	0.49
1:HA:80:ILE:HD12	3:YD:848:ILE:HG21	1.95	0.49
1:B1:41:VAL:HG13	1:I5:40:PHE:CD1	2.48	0.49
1:C2:18:VAL:HG22	1:H1:11:MET:CB	2.43	0.49
1:J1:22:GLU:HG2	1:J1:71:VAL:HG21	1.95	0.49
1:C9:18:VAL:HG22	1:H8:11:MET:CB	2.43	0.49
1:F6:25:ASP:HA	1:D6:88:VAL:HG21	1.95	0.49
1:F7:25:ASP:CA	1:D7:88:VAL:HG21	2.40	0.49
1:G6:12:ILE:HG23	1:G6:75:LEU:HD12	1.95	0.49
1:J0:72:GLY:HA2	1:O0:77:ALA:HB2	1.95	0.49
1:BP:79:HIS:HA	3:YT:725:THR:O	2.13	0.49
1:FR:25:ASP:HA	1:DR:88:VAL:HG21	1.95	0.49
1:HR:12:ILE:HG23	1:HR:75:LEU:CD1	2.42	0.49
1:HR:62:ARG:CA	3:YP:848:ILE:HD11	2.37	0.49
1:JR:72:GLY:HA2	1:OR:77:ALA:HB2	1.95	0.49
1:CH:18:VAL:HG22	1:HG:11:MET:CB	2.43	0.49
1:HG:80:ILE:HD12	3:YJ:848:ILE:HG21	1.95	0.49
1:JG:72:GLY:HA2	1:OG:77:ALA:HB2	1.95	0.49
1:JK:72:GLY:HA2	1:OK:77:ALA:HB2	1.95	0.49
2:PI:14:ASN:O	3:YH:851:SER:HB3	2.13	0.49
1:JO:22:GLU:HG2	1:JO:71:VAL:HG21	1.95	0.49
1:OF:77:ALA:HB2	1:JF:72:GLY:HA2	1.95	0.49
3:YL:704:GLY:HA2	1:EL:79:HIS:CE1	2.48	0.49
1:Eh:91:ILE:CG2	1:Dp:35:LEU:HD23	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Gg:68:CYS:HA	1:Gg:71:VAL:CG1	2.43	0.49
1:Gh:62:ARG:HG2	3:Yg:785:VAL:HG21	1.95	0.49
1:Gi:68:CYS:HA	1:Gi:71:VAL:CG1	2.43	0.49
1:Li:32:GLU:HB2	1:Jp:7:ILE:HD11	1.94	0.49
1:BV:41:VAL:HG13	1:IZ:40:PHE:CD1	2.48	0.49
1:BY:68:CYS:SG	1:BY:75:LEU:HD13	2.53	0.49
1:BY:83:ARG:NH1	1:EX:28:THR:O	2.43	0.49
1:CW:25:ASP:CA	1:HV:88:VAL:HG21	2.43	0.49
1:GY:68:CYS:HA	1:GY:71:VAL:CG1	2.43	0.49
2:PX:14:ASN:O	3:YW:851:SER:HB3	2.13	0.49
1:Ba:79:HIS:HA	3:YU:725:THR:O	2.12	0.49
2:PU:14:ASN:O	3:Yd:851:SER:HB3	2.13	0.49
1:Ev:87:GLU:HB2	1:D7:28:THR:CG2	2.42	0.49
1:Jx:22:GLU:HG2	1:Jx:71:VAL:HG21	1.95	0.49
2:Pt:76:ILE:HD12	2:Px:14:ASN:ND2	2.26	0.49
2:Pw:39:VAL:HG23	2:Px:1:MET:HE1	1.95	0.49
3:Xv:694:PRO:HB3	1:Jv:45:TYR:CE1	2.48	0.49
1:Bo:68:CYS:SG	1:Bo:75:LEU:HD13	2.53	0.49
1:Ck:18:VAL:HG22	1:Ho:11:MET:CB	2.43	0.49
1:Cn:18:VAL:HG13	1:Hm:11:MET:HE3	1.93	0.49
1:On:80:ILE:O	3:Xn:716:PRO:HD3	2.13	0.49
1:Bp:41:VAL:HG13	1:Ij:40:PHE:CD1	2.48	0.49
1:Cq:18:VAL:HG22	1:Hp:11:MET:CB	2.43	0.49
1:Jq:72:GLY:HA2	1:Oq:77:ALA:HB2	1.95	0.49
2:Pr:14:ASN:O	3:Yq:851:SER:HB3	2.13	0.49
1:DD:80:ILE:H	3:Xh:618:GLY:HA3	1.77	0.49
1:DS:15:ARG:HE	1:DS:73:ASP:HB3	1.77	0.49
3:XY:694:PRO:HB2	1:JY:15:ARG:HG2	1.94	0.49
1:DY:65:ALA:O	1:DY:66:ASP:C	2.56	0.49
1:DH:79:HIS:CD2	3:Xa:617:SER:HB3	2.47	0.49
1:DF:42:GLY:C	1:DF:44:GLY:N	2.67	0.49
1:Lm:11:MET:HG3	1:Lm:79:HIS:HB3	1.95	0.49
1:GD:68:CYS:HA	1:GD:71:VAL:CG1	2.43	0.49
1:HA:12:ILE:HG23	1:HA:75:LEU:CD1	2.42	0.49
1:JA:72:GLY:HA2	1:OA:77:ALA:HB2	1.95	0.49
2:PD:39:VAL:HG23	2:PE:1:MET:HE1	1.95	0.49
1:G1:68:CYS:HA	1:G1:71:VAL:CG1	2.43	0.49
1:G3:68:CYS:HA	1:G3:71:VAL:CG1	2.43	0.49
1:J2:72:GLY:HA2	1:O2:77:ALA:HB2	1.95	0.49
1:J4:22:GLU:HG2	1:J4:71:VAL:HG21	1.95	0.49
1:E8:58:ASN:HB2	3:Y8:707:ILE:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G9:12:ILE:HG23	1:G9:75:LEU:HD12	1.95	0.49
1:G9:62:ARG:HG2	3:Y8:785:VAL:HG21	1.95	0.49
1:I6:62:ARG:HG3	3:X6:730:PHE:HB3	1.94	0.49
1:J8:22:GLU:HG2	1:J8:71:VAL:HG21	1.95	0.49
1:BT:68:CYS:SG	1:BT:75:LEU:HD13	2.53	0.49
1:CQ:25:ASP:CA	1:HP:88:VAL:HG21	2.43	0.49
1:GP:12:ILE:HG23	1:GP:75:LEU:HD12	1.95	0.49
1:GR:12:ILE:HG23	1:GR:75:LEU:HD12	1.95	0.49
1:GT:68:CYS:HA	1:GT:71:VAL:CG1	2.43	0.49
1:JQ:72:GLY:HA2	1:OQ:77:ALA:HB2	1.95	0.49
1:JR:62:ARG:NE	3:X5:624:SER:CB	2.74	0.49
1:JS:22:GLU:HG2	1:JS:71:VAL:HG21	1.95	0.49
3:XT:628:THR:HG1	1:Ja:79:HIS:HA	1.65	0.49
1:CJ:72:GLY:HA2	1:HI:77:ALA:HB2	1.94	0.49
3:XK:622:ASP:O	1:Jm:62:ARG:HD2	2.12	0.49
1:BM:68:CYS:SG	1:BM:75:LEU:HD13	2.53	0.49
1:CM:72:GLY:HA2	1:HL:77:ALA:HB2	1.94	0.49
1:JL:72:GLY:HA2	1:OL:77:ALA:HB2	1.95	0.49
2:PF:14:ASN:O	3:YO:851:SER:HB3	2.13	0.49
1:Cf:25:ASP:CA	1:He:88:VAL:HG21	2.43	0.49
1:Ge:12:ILE:HG23	1:Ge:75:LEU:HD12	1.95	0.49
1:Hh:12:ILE:HG23	1:Hh:75:LEU:CD1	2.42	0.49
2:Pe:14:ASN:O	3:Yi:851:SER:HB3	2.13	0.49
2:Pg:14:ASN:O	3:Yf:851:SER:HB3	2.13	0.49
1:CY:18:VAL:HG22	1:HX:11:MET:CB	2.43	0.49
1:DZ:88:VAL:HG21	1:FZ:25:ASP:HA	1.95	0.49
1:JX:72:GLY:HA2	1:OX:77:ALA:HB2	1.95	0.49
1:OY:77:ALA:HB2	1:JY:72:GLY:HA2	1.95	0.49
3:XZ:628:THR:OG1	1:JI:78:ALA:O	2.31	0.49
1:BU:68:CYS:SG	1:BU:75:LEU:HD13	2.53	0.49
1:Ba:41:VAL:HG13	1:IU:40:PHE:CD1	2.48	0.49
1:Dd:88:VAL:HG21	1:Fd:25:ASP:HA	1.95	0.49
1:Lc:45:TYR:CE2	3:Xc:691:ILE:HG12	2.48	0.49
1:Dt:88:VAL:HG21	1:Ft:25:ASP:HA	1.95	0.49
1:Gw:62:ARG:HG2	3:Yv:785:VAL:HG21	1.95	0.49
1:Hv:12:ILE:HG23	1:Hv:75:LEU:CD1	2.42	0.49
1:Jw:72:GLY:HA2	1:Ow:77:ALA:HB2	1.95	0.49
1:Mx:29:LYS:NZ	1:Ll:29:LYS:O	2.41	0.49
3:Xt:643:TYR:CE1	1:Dk:58:ASN:HB3	2.48	0.49
1:Gn:62:ARG:HG2	3:Ym:785:VAL:HG21	1.95	0.49
1:Hk:80:ILE:CD1	3:Yn:848:ILE:HG21	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ho:12:ILE:HG23	1:Ho:75:LEU:CD1	2.42	0.49
2:Pm:14:ASN:O	3:Yl:851:SER:HB3	2.13	0.49
1:Dr:88:VAL:HG21	1:Fr:25:ASP:HA	1.95	0.49
1:Gs:12:ILE:HG23	1:Gs:75:LEU:HD12	1.95	0.49
1:Lp:15:ARG:HG2	3:Xp:691:ILE:HG23	1.95	0.49
2:Ps:14:ASN:ND2	2:Pj:76:ILE:HD12	2.28	0.49
3:X4:616:ILE:O	1:Db:79:HIS:HA	2.12	0.49
1:J6:83:ARG:HD2	1:LN:31:ALA:O	2.13	0.49
3:X8:629:GLY:HA3	1:Jv:80:ILE:N	2.17	0.49
1:Dn:8:ALA:O	1:Dn:51:ARG:HA	2.12	0.49
3:XJ:693:THR:HG22	3:XJ:696:ARG:H	1.78	0.49
1:EF:42:GLY:C	1:EF:44:GLY:N	2.66	0.49
1:B2:83:ARG:NH1	1:E1:28:THR:O	2.43	0.48
1:C4:72:GLY:HA2	1:H3:77:ALA:HB2	1.94	0.48
1:G5:12:ILE:HG23	1:G5:75:LEU:HD12	1.95	0.48
1:C0:25:ASP:CA	1:H9:88:VAL:HG21	2.43	0.48
1:J0:22:GLU:HG2	1:J0:71:VAL:HG21	1.95	0.48
1:J7:22:GLU:HG2	1:J7:71:VAL:HG21	1.95	0.48
1:BR:68:CYS:SG	1:BR:75:LEU:HD13	2.53	0.48
1:LT:83:ARG:NH1	1:Da:28:THR:O	2.46	0.48
1:FJ:35:LEU:CD2	1:DJ:91:ILE:CG2	2.91	0.48
1:GL:68:CYS:HA	1:GL:71:VAL:CG1	2.43	0.48
1:GO:68:CYS:HA	1:GO:71:VAL:CG1	2.43	0.48
1:JM:22:GLU:HG2	1:JM:71:VAL:HG21	1.95	0.48
1:JN:22:GLU:HG2	1:JN:71:VAL:HG21	1.95	0.48
3:XF:719:LEU:O	1:FF:62:ARG:HB3	2.12	0.48
2:Ph:39:VAL:HG23	2:Pi:1:MET:HE1	1.95	0.48
1:CW:18:VAL:HG22	1:HV:11:MET:CB	2.43	0.48
1:GY:12:ILE:HG23	1:GY:75:LEU:HD12	1.95	0.48
2:PY:14:ASN:ND2	2:PZ:76:ILE:HD12	2.27	0.48
3:XZ:627:VAL:HG21	1:JI:62:ARG:CG	2.23	0.48
1:BU:59:ALA:HB1	3:Yd:716:PRO:HB2	1.95	0.48
1:Gb:62:ARG:HG2	3:Ya:785:VAL:HG21	1.95	0.48
1:Gd:12:ILE:HG23	1:Gd:75:LEU:HD12	1.95	0.48
1:Bt:41:VAL:HG13	1:Ix:40:PHE:CD1	2.48	0.48
1:Bt:47:THR:HG23	1:Ix:18:VAL:CG2	2.42	0.48
1:Bt:79:HIS:HA	3:Yx:725:THR:O	2.13	0.48
1:Bu:68:CYS:SG	1:Bu:75:LEU:HD13	2.53	0.48
1:Cw:72:GLY:HA2	1:Hv:77:ALA:HB2	1.94	0.48
1:Dv:88:VAL:HG21	1:Fv:25:ASP:HA	1.95	0.48
2:Px:14:ASN:O	3:Yw:851:SER:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Gm:68:CYS:HA	1:Gm:71:VAL:CG1	2.43	0.48
1:Jn:62:ARG:HE	3:XY:624:SER:CB	2.14	0.48
1:Jn:62:ARG:HD3	3:XY:620:SER:HB2	1.95	0.48
1:Bj:68:CYS:SG	1:Bj:75:LEU:HD13	2.53	0.48
1:Bs:79:HIS:HA	3:Yr:725:THR:O	2.13	0.48
1:Ep:88:VAL:HG21	1:Dh:25:ASP:CB	2.43	0.48
1:Gq:12:ILE:HG23	1:Gq:75:LEU:HD12	1.95	0.48
1:Hr:62:ARG:CA	3:Yp:848:ILE:HD11	2.37	0.48
1:LN:45:TYR:CE2	3:XN:691:ILE:HG12	2.48	0.48
1:GE:12:ILE:HG23	1:GE:75:LEU:HD12	1.95	0.48
2:PE:53:VAL:HB	2:PE:74:ILE:HD13	1.95	0.48
1:B6:68:CYS:SG	1:B6:75:LEU:HD13	2.53	0.48
1:D0:18:VAL:HG22	1:EQ:11:MET:CB	2.43	0.48
1:H6:12:ILE:HG23	1:H6:75:LEU:CD1	2.42	0.48
1:L8:45:TYR:CE2	3:X8:691:ILE:HG12	2.48	0.48
3:X6:627:VAL:CG1	1:JQ:80:ILE:CD1	2.91	0.48
1:CS:25:ASP:CA	1:HR:88:VAL:HG21	2.43	0.48
1:CT:73:ASP:OD2	1:HS:45:TYR:OH	2.24	0.48
1:HT:80:ILE:CD1	3:YR:848:ILE:HG21	2.43	0.48
1:JT:22:GLU:HG2	1:JT:71:VAL:HG21	1.95	0.48
2:PT:14:ASN:O	3:YS:851:SER:HB3	2.13	0.48
1:CK:25:ASP:CA	1:HJ:88:VAL:HG21	2.43	0.48
1:GJ:68:CYS:HA	1:GJ:71:VAL:CG1	2.43	0.48
1:JJ:43:GLY:O	3:XJ:694:PRO:HG2	2.12	0.48
2:PG:57:ALA:HB1	2:PK:68:PRO:HA	1.95	0.48
1:CM:18:VAL:HG22	1:HL:11:MET:CB	2.43	0.48
1:DL:35:LEU:CD2	1:Ew:91:ILE:CG2	2.90	0.48
1:OF:79:HIS:HA	3:XF:714:THR:O	2.13	0.48
3:XL:725:THR:C	1:FL:79:HIS:HD1	2.21	0.48
1:De:35:LEU:CD2	1:Ec:91:ILE:HG21	2.43	0.48
1:Gh:12:ILE:HG23	1:Gh:75:LEU:HD12	1.95	0.48
1:He:80:ILE:CD1	3:Yh:848:ILE:HG21	2.42	0.48
2:Pg:42:ILE:HD12	3:Ye:851:SER:HB3	1.96	0.48
1:BX:68:CYS:SG	1:BX:75:LEU:HD13	2.53	0.48
1:Ba:47:THR:HG23	1:IU:18:VAL:CG2	2.42	0.48
1:Dc:88:VAL:HG21	1:Fc:25:ASP:HA	1.95	0.48
1:Ga:12:ILE:HG23	1:Ga:75:LEU:HD12	1.95	0.48
1:Ga:68:CYS:HA	1:Ga:71:VAL:CG1	2.43	0.48
1:Ha:12:ILE:HG23	1:Ha:75:LEU:CD1	2.42	0.48
1:Ha:80:ILE:HD12	3:Yd:848:ILE:HG21	1.95	0.48
1:Jb:72:GLY:HA2	1:Ob:77:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pc:42:ILE:HD12	3:Ya:851:SER:HB3	1.96	0.48
1:Cu:25:ASP:CA	1:Ht:88:VAL:HG21	2.43	0.48
1:Ex:77:ALA:HB1	1:Dk:18:VAL:HG11	1.94	0.48
1:Gt:12:ILE:HG23	1:Gt:75:LEU:HD12	1.95	0.48
1:Gv:12:ILE:HG23	1:Gv:75:LEU:HD12	1.95	0.48
1:Gv:68:CYS:HA	1:Gv:71:VAL:CG1	2.43	0.48
1:Cl:25:ASP:CA	1:Hk:88:VAL:HG21	2.43	0.48
1:Do:88:VAL:HG21	1:Fo:25:ASP:HA	1.95	0.48
1:Go:12:ILE:HG23	1:Go:75:LEU:HD12	1.95	0.48
1:Hn:12:ILE:HG23	1:Hn:75:LEU:CD1	2.42	0.48
2:Pk:14:ASN:O	3:Yo:851:SER:HB3	2.13	0.48
2:Pm:42:ILE:HD12	3:Yk:851:SER:HB3	1.96	0.48
1:Bp:68:CYS:SG	1:Bp:75:LEU:HD13	2.53	0.48
1:Bq:68:CYS:SG	1:Bq:75:LEU:HD13	2.53	0.48
1:Cq:25:ASP:CA	1:Hp:88:VAL:HG21	2.43	0.48
1:Er:58:ASN:HB2	3:Yr:707:ILE:HD13	1.95	0.48
1:Ir:62:ARG:HG3	3:Xr:730:PHE:HB2	1.94	0.48
1:Lr:45:TYR:CE2	3:Xr:691:ILE:HG12	2.48	0.48
1:J6:22:GLU:HG2	1:J6:71:VAL:HG21	1.95	0.48
1:FF:75:LEU:HD11	1:FF:78:ALA:HB2	1.96	0.48
1:EF:7:ILE:HA	1:EF:51:ARG:HH21	1.78	0.48
1:BA:41:VAL:HG13	1:IE:40:PHE:CD1	2.48	0.48
1:BD:47:THR:CG2	1:IC:18:VAL:CG2	2.91	0.48
1:DB:73:ASP:OD1	1:Eu:76:VAL:HG13	2.13	0.48
1:DE:18:VAL:HG22	1:E1:11:MET:HB3	1.94	0.48
1:JE:7:ILE:HG12	1:L2:32:GLU:OE1	2.14	0.48
1:ME:83:ARG:HD2	1:Mg:31:ALA:O	2.13	0.48
2:PC:68:PRO:HA	2:PD:57:ALA:HB1	1.94	0.48
1:C4:18:VAL:HG22	1:H3:11:MET:CB	2.43	0.48
1:H1:80:ILE:HD12	3:Y4:848:ILE:HG21	1.95	0.48
1:J2:22:GLU:HG2	1:J2:71:VAL:HG21	1.95	0.48
1:J4:43:GLY:O	3:X4:694:PRO:HG2	2.12	0.48
1:J4:45:TYR:CE1	3:X4:694:PRO:HG3	2.49	0.48
2:P4:14:ASN:ND2	2:P5:76:ILE:HD12	2.28	0.48
1:G7:68:CYS:HA	1:G7:71:VAL:CG1	2.43	0.48
1:L8:66:ASP:N	3:X8:636:GLN:HE22	2.08	0.48
3:X6:691:ILE:H	3:X6:691:ILE:HG13	1.42	0.48
1:GS:68:CYS:HA	1:GS:71:VAL:CG1	2.43	0.48
1:JR:22:GLU:HG2	1:JR:71:VAL:HG21	1.95	0.48
3:XT:643:TYR:HE2	1:Da:55:GLY:O	1.95	0.48
1:BG:41:VAL:HG13	1:IK:40:PHE:CD1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DK:88:VAL:HG21	1:FK:25:ASP:HA	1.95	0.48
1:HG:12:ILE:HG23	1:HG:75:LEU:CD1	2.42	0.48
1:GN:12:ILE:HG23	1:GN:75:LEU:HD12	1.95	0.48
1:JM:72:GLY:HA2	1:OM:77:ALA:HB2	1.95	0.48
3:XL:616:ILE:CG2	1:Dl:80:ILE:CD1	2.89	0.48
3:XL:622:ASP:O	1:Jl:62:ARG:CD	2.61	0.48
1:Di:88:VAL:HG21	1:Fi:25:ASP:HA	1.95	0.48
1:Gi:12:ILE:HG23	1:Gi:75:LEU:HD12	1.95	0.48
1:Hi:12:ILE:HG23	1:Hi:75:LEU:CD1	2.42	0.48
2:Pi:53:VAL:HB	2:Pi:74:ILE:HD13	1.95	0.48
1:BW:68:CYS:SG	1:BW:75:LEU:HD13	2.53	0.48
1:CY:25:ASP:CA	1:HX:88:VAL:HG21	2.43	0.48
1:HZ:80:ILE:CD1	3:YX:848:ILE:HG21	2.43	0.48
1:LW:79:HIS:HA	3:XW:639:SER:O	2.12	0.48
1:Cd:72:GLY:HA2	1:Hc:77:ALA:HB2	1.94	0.48
1:Gd:62:ARG:HG2	3:Yc:785:VAL:HG21	1.95	0.48
1:Hd:62:ARG:HG3	3:Yb:848:ILE:CD1	2.24	0.48
1:La:58:ASN:CG	3:Xa:643:TYR:HD1	2.20	0.48
1:Ct:18:VAL:HG22	1:Hx:11:MET:CB	2.43	0.48
1:Jw:32:GLU:CG	1:Dw:7:ILE:CD1	2.81	0.48
2:Pt:14:ASN:O	3:Yx:851:SER:HB3	2.13	0.48
1:Bo:91:ILE:HD11	1:In:21:ILE:HD13	1.91	0.48
1:Gk:12:ILE:HG23	1:Gk:75:LEU:HD12	1.95	0.48
1:Hk:62:ARG:HG3	3:Yn:848:ILE:CD1	2.32	0.48
1:Gj:31:ALA:HB3	1:Gj:60:ALA:HB2	1.96	0.48
3:XD:643:TYR:CZ	1:Dq:58:ASN:HB3	2.48	0.48
3:Xn:720:ALA:HB1	3:Xn:723:LEU:HB2	1.95	0.48
1:Dq:35:LEU:HA	1:Dq:50:VAL:HG12	1.95	0.48
1:Om:77:ALA:HB2	1:Jm:72:GLY:HA2	1.95	0.48
1:CD:25:ASP:CA	1:HC:88:VAL:HG21	2.43	0.48
1:CE:25:ASP:CA	1:HD:88:VAL:HG21	2.43	0.48
1:DA:35:LEU:CD2	1:E8:91:ILE:HG21	2.43	0.48
1:JB:62:ARG:HG2	3:Xv:627:VAL:HG21	1.96	0.48
1:D1:88:VAL:HG21	1:F1:25:ASP:HA	1.95	0.48
1:J5:22:GLU:HG2	1:J5:71:VAL:HG21	1.95	0.48
1:B7:68:CYS:SG	1:B7:75:LEU:HD13	2.53	0.48
1:B7:83:ARG:NH1	1:E6:28:THR:O	2.43	0.48
1:B8:59:ALA:HB1	3:Y7:716:PRO:HB2	1.96	0.48
1:C6:18:VAL:HG22	1:H0:11:MET:CB	2.43	0.48
1:C7:25:ASP:CA	1:H6:88:VAL:HG21	2.43	0.48
1:G0:11:MET:HG2	1:G0:49:LEU:HD23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BS:68:CYS:SG	1:BS:75:LEU:HD13	2.53	0.48
2:PR:14:ASN:O	3:YQ:851:SER:HB3	2.13	0.48
1:BJ:47:THR:CG2	1:II:18:VAL:CG2	2.91	0.48
1:CJ:25:ASP:CA	1:HI:88:VAL:HG21	2.43	0.48
1:GK:12:ILE:HG23	1:GK:75:LEU:HD12	1.95	0.48
1:JH:62:ARG:HH21	3:Xa:624:SER:HB2	1.75	0.48
1:OH:78:ALA:HB3	3:XH:712:ARG:O	2.13	0.48
1:DO:88:VAL:HG21	1:FO:25:ASP:HA	1.95	0.48
1:HO:12:ILE:HG23	1:HO:75:LEU:CD1	2.42	0.48
1:HO:80:ILE:CD1	3:YM:848:ILE:CG2	2.91	0.48
2:PN:14:ASN:O	3:YM:851:SER:HB3	2.13	0.48
3:XL:624:SER:HB2	1:Jl:62:ARG:NE	2.28	0.48
1:Cf:18:VAL:HG22	1:He:11:MET:CB	2.43	0.48
1:Cf:72:GLY:HA2	1:He:77:ALA:HB2	1.94	0.48
1:Ch:25:ASP:CA	1:Hg:88:VAL:HG21	2.43	0.48
1:Hf:12:ILE:HG23	1:Hf:75:LEU:CD1	2.42	0.48
1:Hi:62:ARG:HG3	3:Yg:848:ILE:CD1	2.29	0.48
1:Jf:72:GLY:HA2	1:Of:77:ALA:HB2	1.95	0.48
1:Jg:72:GLY:HA2	1:Og:77:ALA:HB2	1.95	0.48
1:Jh:88:VAL:HG21	1:Mh:25:ASP:HA	1.96	0.48
1:Ji:7:ILE:HG12	1:LW:32:GLU:OE1	2.14	0.48
1:Le:29:LYS:O	1:MV:29:LYS:NZ	2.42	0.48
2:Pg:68:PRO:HA	2:Ph:57:ALA:HB1	1.94	0.48
3:Xi:627:VAL:HG13	1:Jp:80:ILE:HD11	1.90	0.48
1:GV:12:ILE:HG23	1:GV:75:LEU:HD12	1.95	0.48
1:HV:80:ILE:HD12	3:YY:848:ILE:HG21	1.95	0.48
1:HW:12:ILE:HG23	1:HW:75:LEU:CD1	2.42	0.48
1:Bc:59:ALA:HB1	3:Yb:716:PRO:HB2	1.96	0.48
1:Cb:72:GLY:HA2	1:Ha:77:ALA:HB2	1.94	0.48
1:Cd:18:VAL:HG22	1:Hc:11:MET:CB	2.43	0.48
1:Hc:12:ILE:HG23	1:Hc:75:LEU:CD1	2.42	0.48
1:Et:62:ARG:CB	3:Yt:732:HIS:NE2	2.59	0.48
1:Jw:7:ILE:HD11	1:LM:32:GLU:HB2	1.96	0.48
3:Yw:734:ALA:O	3:Yw:735:ARG:C	2.57	0.48
1:Gn:12:ILE:HG23	1:Gn:75:LEU:HD12	1.95	0.48
1:Mk:82:ALA:HB3	1:Ms:30:ALA:O	2.12	0.48
1:Cs:72:GLY:HA2	1:Hr:77:ALA:HB2	1.94	0.48
1:Gq:62:ARG:HG2	3:Yp:785:VAL:HG21	1.95	0.48
3:X4:720:ALA:HB1	3:X4:723:LEU:HB2	1.95	0.48
3:Xq:643:TYR:OH	1:Dh:54:THR:O	2.31	0.48
1:EL:42:GLY:C	1:EL:44:GLY:N	2.70	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Db:28:THR:HG21	1:E3:85:HIS:CE1	2.45	0.48
1:Df:57:VAL:O	1:Df:61:VAL:HG23	2.12	0.48
1:JF:22:GLU:HG2	1:JF:71:VAL:HG21	1.95	0.48
1:BB:47:THR:CG2	1:IA:18:VAL:CG2	2.91	0.48
1:BD:68:CYS:SG	1:BD:75:LEU:HD13	2.53	0.48
1:BE:62:ARG:HB3	3:YD:720:ALA:HB3	1.95	0.48
1:CD:18:VAL:HG22	1:HC:11:MET:CB	2.43	0.48
1:DE:88:VAL:HG21	1:FE:25:ASP:HA	1.95	0.48
1:JD:80:ILE:HD12	3:Xh:627:VAL:HG11	1.93	0.48
1:C2:72:GLY:HA2	1:H1:77:ALA:HB2	1.94	0.48
1:E5:88:VAL:HG21	1:D9:25:ASP:HA	1.95	0.48
1:H5:80:ILE:CD1	3:Y3:848:ILE:HG21	2.43	0.48
1:J4:72:GLY:HA2	1:O4:77:ALA:HB2	1.95	0.48
2:P1:57:ALA:HB1	2:P5:68:PRO:HA	1.95	0.48
2:P3:14:ASN:O	3:Y2:851:SER:HB3	2.13	0.48
1:B9:68:CYS:SG	1:B9:75:LEU:HD13	2.53	0.48
1:B9:79:HIS:HA	3:Y8:725:THR:O	2.13	0.48
1:C9:25:ASP:CA	1:H8:88:VAL:HG21	2.43	0.48
1:G0:31:ALA:HB3	1:G0:60:ALA:HB2	1.96	0.48
1:H0:12:ILE:HG23	1:H0:75:LEU:CD1	2.42	0.48
2:P0:14:ASN:O	3:Y9:851:SER:HB3	2.13	0.48
1:BP:68:CYS:SG	1:BP:75:LEU:HD13	2.53	0.48
1:CQ:18:VAL:HG22	1:HP:11:MET:CB	2.43	0.48
1:HP:80:ILE:HD12	3:YS:848:ILE:HG21	1.95	0.48
1:HQ:12:ILE:HG23	1:HQ:75:LEU:CD1	2.42	0.48
1:JQ:22:GLU:HG2	1:JQ:71:VAL:HG21	1.95	0.48
1:JT:72:GLY:HA2	1:OT:77:ALA:HB2	1.95	0.48
3:YS:734:ALA:O	3:YS:735:ARG:C	2.57	0.48
1:BH:47:THR:CG2	1:IG:18:VAL:CG2	2.91	0.48
1:BJ:68:CYS:SG	1:BJ:75:LEU:HD13	2.53	0.48
1:CH:25:ASP:CA	1:HG:88:VAL:HG21	2.43	0.48
1:CJ:18:VAL:HG22	1:HI:11:MET:CB	2.43	0.48
1:CL:18:VAL:HG22	1:HF:11:MET:CB	2.43	0.48
1:GF:31:ALA:HB3	1:GF:60:ALA:HB2	1.95	0.48
1:IL:62:ARG:HG3	3:XL:730:PHE:HB3	1.94	0.48
2:PL:14:ASN:O	3:YF:851:SER:HB3	2.13	0.48
1:He:62:ARG:HG3	3:Yh:848:ILE:CD1	2.32	0.48
1:Je:22:GLU:HG2	1:Je:71:VAL:HG21	1.95	0.48
1:Lf:32:GLU:OE1	1:Jc:7:ILE:HG12	2.14	0.48
3:Xe:643:TYR:CE1	1:DV:58:ASN:HB3	2.48	0.48
1:CW:72:GLY:HA2	1:HV:77:ALA:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EX:91:ILE:HG21	1:Dn:35:LEU:CD2	2.44	0.48
2:PZ:14:ASN:O	3:YY:851:SER:HB3	2.13	0.48
1:Da:88:VAL:HG21	1:Fa:25:ASP:HA	1.95	0.48
1:Jb:45:TYR:CE1	3:Xb:694:PRO:HG3	2.49	0.48
1:La:58:ASN:CG	3:Xa:644:VAL:HG13	2.38	0.48
1:Bv:68:CYS:SG	1:Bv:75:LEU:HD13	2.53	0.48
1:Cw:25:ASP:CA	1:Hv:88:VAL:HG21	2.43	0.48
1:Dx:88:VAL:HG21	1:Fx:25:ASP:HA	1.95	0.48
1:Ew:61:VAL:HG12	3:Yw:702:ILE:HD11	1.93	0.48
1:Hx:12:ILE:HG23	1:Hx:75:LEU:CD1	2.42	0.48
1:Bk:91:ILE:HD11	1:Io:21:ILE:HD13	1.96	0.48
1:Hl:12:ILE:HG23	1:Hl:75:LEU:CD1	2.42	0.48
1:Jk:22:GLU:HG2	1:Jk:71:VAL:HG21	1.95	0.48
1:Jl:72:GLY:HA2	1:Ol:77:ALA:HB2	1.95	0.48
1:Cp:18:VAL:HG13	1:Hj:11:MET:HE3	1.94	0.48
1:Hj:12:ILE:HG23	1:Hj:75:LEU:CD1	2.42	0.48
1:Jq:22:GLU:HG2	1:Jq:71:VAL:HG21	1.95	0.48
2:Pj:14:ASN:O	3:Ys:851:SER:HB3	2.13	0.48
2:Pj:39:VAL:HG21	2:Pj:67:TYR:CE1	2.49	0.48
1:DH:61:VAL:CG1	3:Xa:616:ILE:HD12	2.43	0.48
1:DB:85:HIS:HB3	1:DB:88:VAL:HG23	1.95	0.48
1:FD:28:THR:HG21	1:DD:87:GLU:HB2	1.94	0.48
1:GC:68:CYS:HA	1:GC:71:VAL:CG1	2.43	0.48
1:C5:25:ASP:CA	1:H4:88:VAL:HG21	2.43	0.48
1:D3:28:THR:CG2	1:Eb:87:GLU:OE1	2.61	0.48
1:D3:88:VAL:HG21	1:F3:25:ASP:HA	1.95	0.48
2:P3:42:ILE:HD12	3:Y1:851:SER:HB3	1.96	0.48
1:B6:41:VAL:HG13	1:I0:40:PHE:CD1	2.48	0.48
1:B6:91:ILE:HD11	1:I0:21:ILE:HD13	1.96	0.48
1:C0:73:ASP:OD2	1:H9:45:TYR:OH	2.24	0.48
1:F7:29:LYS:HG3	1:D7:85:HIS:HB2	1.94	0.48
1:L7:62:ARG:NE	3:X7:644:VAL:CG2	2.72	0.48
1:M6:31:ALA:O	1:MN:83:ARG:HD2	2.14	0.48
1:O0:79:HIS:HA	3:X0:714:THR:O	2.14	0.48
1:CT:25:ASP:CA	1:HS:88:VAL:HG21	2.43	0.48
1:FS:71:VAL:CG1	1:DS:79:HIS:CD2	2.95	0.48
1:JR:78:ALA:O	3:X5:628:THR:OG1	2.29	0.48
2:PS:39:VAL:HG23	2:PT:1:MET:HE1	1.95	0.48
1:GJ:62:ARG:HG2	3:YI:785:VAL:HG21	1.95	0.48
1:OJ:80:ILE:O	3:XJ:716:PRO:HD3	2.13	0.48
1:CO:18:VAL:HG22	1:HN:11:MET:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CO:25:ASP:CA	1:HN:88:VAL:HG21	2.43	0.48
1:DL:88:VAL:HG21	1:FL:25:ASP:HA	1.95	0.48
1:GO:62:ARG:HG2	3:YN:785:VAL:HG21	1.95	0.48
1:JN:72:GLY:HA2	1:ON:77:ALA:HB2	1.95	0.48
1:NM:29:LYS:O	1:Dw:29:LYS:HE2	2.13	0.48
3:YF:734:ALA:O	3:YF:735:ARG:C	2.57	0.48
1:Be:91:ILE:HD11	1:Ii:21:ILE:HD13	1.96	0.48
1:Bi:91:ILE:HD11	1:Ih:21:ILE:HD13	1.90	0.48
1:BV:68:CYS:SG	1:BV:75:LEU:HD13	2.53	0.48
1:CZ:25:ASP:CA	1:HY:88:VAL:HG21	2.43	0.48
1:Ba:66:ASP:OD2	3:YU:719:LEU:HB2	2.14	0.48
1:Ba:68:CYS:SG	1:Ba:75:LEU:HD13	2.53	0.48
1:CU:25:ASP:CA	1:Hd:88:VAL:HG21	2.43	0.48
1:Cb:25:ASP:CA	1:Ha:88:VAL:HG21	2.43	0.48
1:Gb:12:ILE:HG23	1:Gb:75:LEU:HD12	1.95	0.48
1:Hc:55:GLY:HA2	2:Pb:13:THR:HG21	1.96	0.48
1:Bv:83:ARG:NH1	1:Eu:28:THR:O	2.41	0.48
1:Bw:47:THR:CG2	1:Iv:18:VAL:CG2	2.91	0.48
1:Cw:18:VAL:HG22	1:Hv:11:MET:CB	2.43	0.48
1:Gw:12:ILE:HG23	1:Gw:75:LEU:HD12	1.95	0.48
1:Hv:55:GLY:HA2	2:Pu:13:THR:HG21	1.96	0.48
1:Jw:31:ALA:HA	1:Dw:82:ALA:HB1	1.96	0.48
1:Mw:29:LYS:NZ	1:LM:29:LYS:O	2.34	0.48
1:Bl:47:THR:CG2	1:Ik:18:VAL:CG2	2.91	0.48
1:Bl:68:CYS:SG	1:Bl:75:LEU:HD13	2.53	0.48
1:Cl:72:GLY:HA2	1:Hk:77:ALA:HB2	1.94	0.48
1:Cn:25:ASP:CA	1:Hm:88:VAL:HG21	2.43	0.48
1:Bj:59:ALA:HB1	3:Ys:716:PRO:HB2	1.95	0.48
1:Bp:79:HIS:HA	3:Yj:725:THR:O	2.12	0.48
1:Fj:49:LEU:HD13	1:Fj:93:PRO:HG3	1.94	0.48
1:Gj:11:MET:HG2	1:Gj:49:LEU:HD23	1.94	0.48
1:Hp:80:ILE:HD12	3:Ys:848:ILE:HG21	1.95	0.48
3:X8:712:ARG:HG3	3:X8:713:ILE:HG13	1.96	0.48
3:XY:694:PRO:HG3	1:JY:45:TYR:CE1	2.49	0.48
3:XY:720:ALA:HB1	3:XY:723:LEU:HB2	1.95	0.48
3:Xq:643:TYR:CZ	1:Dh:58:ASN:HB3	2.48	0.48
1:JY:22:GLU:HG2	1:JY:71:VAL:HG21	1.95	0.48
1:CB:25:ASP:CA	1:HA:88:VAL:HG21	2.43	0.48
1:JD:88:VAL:HG21	1:MD:25:ASP:HA	1.96	0.48
1:LB:32:GLU:OE1	1:J8:7:ILE:HG12	2.14	0.48
3:YD:734:ALA:O	3:YD:735:ARG:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:18:VAL:HG22	1:H5:11:MET:CB	2.43	0.48
1:C2:25:ASP:CA	1:H1:88:VAL:HG21	2.43	0.48
1:D2:88:VAL:HG21	1:F2:25:ASP:HA	1.95	0.48
1:H1:12:ILE:HG23	1:H1:75:LEU:CD1	2.42	0.48
1:M2:28:THR:O	1:Mg:83:ARG:NH1	2.41	0.48
2:P5:14:ASN:O	3:Y4:851:SER:HB3	2.13	0.48
1:G7:62:ARG:HG2	3:Y6:785:VAL:HG21	1.95	0.48
1:H0:62:ARG:HG3	3:Y8:848:ILE:CD1	2.29	0.48
1:J8:72:GLY:HA2	1:O8:77:ALA:HB2	1.95	0.48
2:P8:53:VAL:O	2:P8:71:LEU:HD12	2.13	0.48
1:BS:36:VAL:HG11	1:BS:51:ARG:CG	2.44	0.48
1:DQ:88:VAL:HG21	1:FQ:25:ASP:HA	1.95	0.48
1:ET:77:ALA:HB1	1:DG:18:VAL:HG11	1.94	0.48
1:GS:62:ARG:HG2	3:YR:785:VAL:HG21	1.95	0.48
1:GI:68:CYS:HA	1:GI:71:VAL:CG1	2.43	0.48
1:GF:11:MET:HG2	1:GF:49:LEU:HD23	1.94	0.48
1:GM:12:ILE:HG23	1:GM:75:LEU:HD12	1.95	0.48
1:GO:12:ILE:HG23	1:GO:75:LEU:HD12	1.95	0.48
1:Bf:47:THR:CG2	1:Ie:18:VAL:CG2	2.91	0.48
1:Bf:68:CYS:SG	1:Bf:75:LEU:HD13	2.53	0.48
1:Bh:47:THR:CG2	1:Ig:18:VAL:CG2	2.91	0.48
1:Ce:18:VAL:HG13	1:Hi:11:MET:HE3	1.94	0.48
1:Eh:77:ALA:HB2	1:Dp:72:GLY:HA2	1.95	0.48
3:Yi:724:ILE:HG13	3:Yi:727:THR:HG23	1.93	0.48
1:GY:62:ARG:HG2	3:YX:785:VAL:HG21	1.95	0.48
1:Bb:47:THR:CG2	1:Ia:18:VAL:CG2	2.91	0.48
1:Cb:18:VAL:HG22	1:Ha:11:MET:CB	2.43	0.48
1:OU:79:HIS:HA	3:XU:714:THR:O	2.13	0.48
1:Ox:27:MET:HE3	1:Ox:61:VAL:HG22	1.96	0.48
1:Cl:18:VAL:HG22	1:Hk:11:MET:CB	2.43	0.48
1:Bs:68:CYS:SG	1:Bs:75:LEU:HD13	2.53	0.48
1:Ds:88:VAL:HG21	1:Fs:25:ASP:HA	1.95	0.48
1:Gp:12:ILE:HG23	1:Gp:75:LEU:HD12	1.95	0.48
1:Lr:65:ALA:CB	3:Xr:636:GLN:HG2	2.44	0.48
1:Dw:33:VAL:CG1	1:Dw:56:ALA:HB1	2.41	0.48
3:XJ:720:ALA:HB1	3:XJ:723:LEU:HB2	1.95	0.48
1:DB:77:ALA:HB2	1:FB:72:GLY:HA2	1.95	0.48
1:DB:82:ALA:HB3	1:JB:30:ALA:O	2.14	0.48
1:DC:88:VAL:HG21	1:FC:25:ASP:HA	1.95	0.48
1:GD:62:ARG:HG2	3:YC:785:VAL:HG21	1.95	0.48
1:JA:88:VAL:HG21	1:MA:25:ASP:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:JD:72:GLY:HA2	1:OD:77:ALA:HB2	1.95	0.48
1:OE:27:MET:HE3	1:OE:61:VAL:HG22	1.96	0.48
2:PC:42:ILE:HD12	3:YA:851:SER:HB3	1.96	0.48
1:B2:47:THR:CG2	1:I1:18:VAL:CG2	2.91	0.48
1:G1:12:ILE:HG23	1:G1:75:LEU:HD12	1.95	0.48
1:G3:12:ILE:HG23	1:G3:75:LEU:HD12	1.95	0.48
1:G4:12:ILE:HG23	1:G4:75:LEU:HD12	1.95	0.48
1:J5:72:GLY:HA2	1:O5:77:ALA:HB2	1.95	0.48
1:O1:27:MET:HE3	1:O1:61:VAL:HG22	1.96	0.48
1:B7:36:VAL:HG11	1:B7:51:ARG:CG	2.44	0.48
1:D0:88:VAL:HG21	1:F0:25:ASP:HA	1.95	0.48
2:P8:14:ASN:O	3:Y7:851:SER:HB3	2.13	0.48
1:BS:83:ARG:NH1	1:ER:28:THR:O	2.43	0.48
1:LQ:32:GLU:OE1	1:JN:7:ILE:HG12	2.14	0.48
1:JG:88:VAL:HG21	1:MG:25:ASP:HA	1.96	0.48
1:JJ:88:VAL:HG21	1:MJ:25:ASP:HA	1.96	0.48
1:DL:18:VAL:HG22	1:Ew:11:MET:HB3	1.95	0.48
1:HL:80:ILE:HD12	3:YO:848:ILE:HG21	1.95	0.48
1:Be:79:HIS:HA	3:Yi:725:THR:O	2.13	0.48
1:Ci:25:ASP:CA	1:Hh:88:VAL:HG21	2.43	0.48
1:Dg:88:VAL:HG21	1:Fg:25:ASP:HA	1.95	0.48
1:Jf:88:VAL:HG21	1:Mf:25:ASP:HA	1.96	0.48
1:DV:88:VAL:HG21	1:FV:25:ASP:HA	1.95	0.48
1:GW:72:GLY:HA2	1:IW:77:ALA:HB2	1.96	0.48
1:GX:12:ILE:HG23	1:GX:75:LEU:HD12	1.95	0.48
1:JZ:72:GLY:HA2	1:OZ:77:ALA:HB2	1.95	0.48
1:OZ:27:MET:HE3	1:OZ:61:VAL:HG22	1.96	0.48
2:PX:42:ILE:HD12	3:YV:851:SER:HB3	1.96	0.48
1:BU:36:VAL:HG11	1:BU:51:ARG:CG	2.44	0.48
2:PU:39:VAL:HG21	2:PU:67:TYR:CE1	2.49	0.48
1:Ex:88:VAL:HG21	1:Dk:25:ASP:HA	1.95	0.48
1:Hx:80:ILE:CD1	3:Yv:848:ILE:HG21	2.44	0.48
1:Ck:18:VAL:HG13	1:Ho:11:MET:HE3	1.94	0.48
1:Jn:88:VAL:HG21	1:Mn:25:ASP:HA	1.96	0.48
1:Jo:22:GLU:HG2	1:Jo:71:VAL:HG21	1.95	0.48
1:Bj:36:VAL:HG11	1:Bj:51:ARG:CG	2.44	0.48
1:Bp:66:ASP:OD2	3:Yj:719:LEU:HB2	2.14	0.48
1:Oj:79:HIS:HA	3:Xj:714:THR:O	2.13	0.48
3:X7:616:ILE:CG2	1:DM:80:ILE:HD11	2.41	0.48
3:XY:694:PRO:HG2	1:JY:43:GLY:O	2.12	0.48
3:Xn:693:THR:HG22	3:Xn:696:ARG:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Xq:712:ARG:HG3	3:Xq:713:ILE:HG13	1.96	0.48
1:Fh:25:ASP:HA	1:Dh:88:VAL:HG21	1.95	0.48
3:XN:712:ARG:HG3	3:XN:713:ILE:HG13	1.96	0.48
1:LI:78:ALA:CB	3:XI:638:ILE:HD12	2.44	0.48
1:FF:18:VAL:CG2	1:DF:13:GLU:HB2	2.43	0.48
1:Om:27:MET:HE3	1:Om:61:VAL:HG22	1.96	0.48
1:BA:79:HIS:HA	3:YE:725:THR:O	2.13	0.48
1:HE:80:ILE:CD1	3:YC:848:ILE:HG21	2.43	0.48
1:B1:36:VAL:HG11	1:B1:51:ARG:CG	2.44	0.48
1:C5:73:ASP:OD2	1:H4:45:TYR:OH	2.24	0.48
1:G2:72:GLY:HA2	1:I2:77:ALA:HB2	1.96	0.48
1:B0:59:ALA:HB1	3:Y9:716:PRO:HB2	1.95	0.48
1:D0:80:ILE:H	3:XR:618:GLY:HA3	1.79	0.48
1:G8:12:ILE:HG23	1:G8:75:LEU:HD12	1.95	0.48
1:H0:80:ILE:CD1	3:Y8:848:ILE:HG21	2.43	0.48
1:H8:55:GLY:HA2	2:P7:13:THR:HG21	1.96	0.48
1:J9:72:GLY:HA2	1:O9:77:ALA:HB2	1.95	0.48
1:M7:32:GLU:HA	1:Mw:83:ARG:CZ	2.44	0.48
2:P8:42:ILE:HD12	3:Y6:851:SER:HB3	1.96	0.48
1:GT:12:ILE:HG23	1:GT:75:LEU:HD12	1.95	0.48
1:OT:27:MET:HE3	1:OT:61:VAL:HG22	1.96	0.48
2:PR:53:VAL:HG22	2:PR:54:GLY:H	1.79	0.48
1:BK:36:VAL:HG11	1:BK:51:ARG:CG	2.44	0.48
1:FH:36:VAL:O	1:FH:96:PRO:HA	2.13	0.48
1:GH:72:GLY:HA2	1:IH:77:ALA:HB2	1.96	0.48
1:HJ:80:ILE:CD1	3:YH:848:ILE:CG2	2.91	0.48
1:JJ:45:TYR:CE1	3:XJ:694:PRO:HG3	2.49	0.48
1:NJ:62:ARG:HD2	3:YI:712:ARG:NH2	2.29	0.48
2:PI:42:ILE:HD12	3:YG:851:SER:HB3	1.96	0.48
1:BO:36:VAL:HG11	1:BO:51:ARG:CG	2.44	0.48
1:GL:12:ILE:HG23	1:GL:75:LEU:HD12	1.95	0.48
1:JM:45:TYR:CE1	3:XM:694:PRO:HG3	2.49	0.48
1:OO:27:MET:HE3	1:OO:61:VAL:HG22	1.96	0.48
2:PO:39:VAL:HG23	2:PF:1:MET:HE1	1.96	0.48
3:XL:616:ILE:HD13	1:Dl:78:ALA:HB3	1.96	0.48
1:Ch:72:GLY:HA2	1:Hg:77:ALA:HB2	1.94	0.48
1:Hg:55:GLY:HA2	2:Pf:13:THR:HG21	1.96	0.48
1:Jg:22:GLU:HG2	1:Jg:71:VAL:HG21	1.95	0.48
1:Ji:22:GLU:HG2	1:Ji:71:VAL:HG21	1.95	0.48
1:DW:18:VAL:HG22	1:Ej:11:MET:CB	2.44	0.48
1:MZ:82:ALA:HB3	1:MI:30:ALA:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ea:85:HIS:CE1	1:DS:28:THR:HG22	2.49	0.48
2:Pd:39:VAL:HG23	2:PU:1:MET:HE1	1.96	0.48
3:YU:734:ALA:O	3:YU:735:ARG:C	2.57	0.48
1:Bt:83:ARG:NH1	1:Ex:28:THR:O	2.43	0.48
1:Bu:36:VAL:HG11	1:Bu:51:ARG:CG	2.44	0.48
1:Cu:18:VAL:HG22	1:Ht:11:MET:CB	2.43	0.48
1:Dt:35:LEU:CD2	1:Er:91:ILE:HG21	2.43	0.48
1:Ev:13:GLU:HB2	1:D7:18:VAL:CG2	2.43	0.48
1:Jw:88:VAL:HG21	1:Mw:25:ASP:HA	1.96	0.48
1:Lu:32:GLU:OE1	1:Jr:7:ILE:HG12	2.14	0.48
2:Pv:14:ASN:O	3:Yu:851:SER:HB3	2.13	0.48
2:Pv:42:ILE:HD12	3:Yt:851:SER:HB3	1.96	0.48
3:Xx:624:SER:HB3	3:Xx:627:VAL:HG23	1.96	0.48
1:Bn:47:THR:CG2	1:Im:18:VAL:CG2	2.91	0.48
1:Bn:66:ASP:OD1	3:Ym:720:ALA:HB2	2.14	0.48
1:Cn:72:GLY:HA2	1:Hm:77:ALA:HB2	1.94	0.48
1:Jl:88:VAL:HG21	1:Ml:25:ASP:HA	1.96	0.48
1:On:27:MET:HE3	1:On:61:VAL:HG22	1.96	0.48
1:Cs:25:ASP:CA	1:Hr:88:VAL:HG21	2.43	0.48
1:Ep:92:LEU:CD2	1:Dh:21:ILE:HD13	2.44	0.48
1:Gs:62:ARG:HG2	3:Yr:785:VAL:HG21	1.95	0.48
1:Jr:72:GLY:HA2	1:Or:77:ALA:HB2	1.95	0.48
1:BA:36:VAL:HG11	1:BA:51:ARG:CG	2.44	0.48
1:HC:55:GLY:HA2	2:PB:13:THR:HG21	1.96	0.48
1:HD:80:ILE:CD1	3:YB:848:ILE:CG2	2.91	0.48
1:JE:22:GLU:HG2	1:JE:71:VAL:HG21	1.95	0.48
2:PC:53:VAL:HG22	2:PC:54:GLY:H	1.79	0.48
1:B3:36:VAL:HG11	1:B3:51:ARG:CG	2.44	0.48
1:B0:36:VAL:HG11	1:B0:51:ARG:CG	2.44	0.48
1:J9:22:GLU:HG2	1:J9:71:VAL:HG21	1.95	0.48
2:P0:39:VAL:HG21	2:P0:67:TYR:CE1	2.48	0.48
1:BQ:36:VAL:HG11	1:BQ:51:ARG:CG	2.44	0.48
1:HR:55:GLY:HA2	2:PQ:13:THR:HG21	1.96	0.48
1:JP:22:GLU:HG2	1:JP:71:VAL:HG21	1.95	0.48
1:JP:88:VAL:HG21	1:MP:25:ASP:HA	1.96	0.48
1:BG:36:VAL:HG11	1:BG:51:ARG:CG	2.44	0.48
1:HK:80:ILE:CD1	3:YI:848:ILE:HG21	2.44	0.48
1:JH:45:TYR:CE1	3:XH:694:PRO:HG3	2.49	0.48
1:JJ:72:GLY:HA2	1:OJ:77:ALA:HB2	1.95	0.48
1:JK:22:GLU:HG2	1:JK:71:VAL:HG21	1.95	0.48
1:OK:27:MET:HE3	1:OK:61:VAL:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BL:66:ASP:OD2	3:YF:719:LEU:HB2	2.14	0.48
1:EM:87:GLU:OE1	1:D6:28:THR:HG21	2.14	0.48
1:Bh:36:VAL:HG11	1:Bh:51:ARG:CG	2.44	0.48
1:De:88:VAL:HG21	1:Fe:25:ASP:HA	1.95	0.48
1:Og:27:MET:HE3	1:Og:61:VAL:HG22	1.96	0.48
1:Oh:27:MET:HE3	1:Oh:61:VAL:HG22	1.96	0.48
2:Ph:4:MET:HE3	2:Ph:29:GLU:HG3	1.96	0.48
3:Yh:734:ALA:O	3:Yh:735:ARG:C	2.57	0.48
1:BV:91:ILE:HD11	1:IZ:21:ILE:HD13	1.96	0.48
1:BW:36:VAL:HG11	1:BW:51:ARG:CG	2.44	0.48
1:JV:88:VAL:HG21	1:MV:25:ASP:HA	1.96	0.48
1:MY:25:ASP:HA	1:JY:88:VAL:HG21	1.96	0.48
1:OV:27:MET:HE3	1:OV:61:VAL:HG22	1.96	0.48
1:Ja:72:GLY:HA2	1:Oa:77:ALA:HB2	1.95	0.48
1:La:15:ARG:HG2	3:Xa:691:ILE:HG23	1.95	0.48
1:Oc:27:MET:HE3	1:Oc:61:VAL:HG22	1.96	0.48
1:Cx:30:ALA:HA	2:Pw:23:PRO:HB3	1.96	0.48
1:Co:25:ASP:CA	1:Hn:88:VAL:HG21	2.43	0.48
1:Hm:55:GLY:HA2	2:Pl:13:THR:HG21	1.96	0.48
1:Ho:62:ARG:HG3	3:Ym:848:ILE:CD1	2.29	0.48
1:Jn:22:GLU:HG2	1:Jn:71:VAL:HG21	1.95	0.48
1:Jo:88:VAL:HG21	1:Mo:25:ASP:HA	1.96	0.48
1:Jj:62:ARG:NH1	3:XX:622:ASP:O	2.46	0.48
1:Js:72:GLY:HA2	1:Os:77:ALA:HB2	1.95	0.48
3:Xq:646:ALA:H	1:Dh:62:ARG:HH12	1.61	0.48
1:Em:85:HIS:ND1	1:DJ:28:THR:HG21	2.29	0.48
1:FF:31:ALA:HB3	1:FF:60:ALA:HB2	1.96	0.48
1:Mm:8:ALA:HA	1:Mm:82:ALA:O	2.14	0.48
1:BE:36:VAL:HG11	1:BE:51:ARG:CG	2.44	0.47
1:GB:72:GLY:HA2	1:IB:77:ALA:HB2	1.96	0.47
1:N5:79:HIS:HA	3:Y4:714:THR:O	2.14	0.47
1:B9:36:VAL:HG11	1:B9:51:ARG:CG	2.44	0.47
1:C6:14:THR:HB	1:C6:19:PRO:HB2	1.96	0.47
1:D0:73:ASP:OD2	1:EQ:45:TYR:CZ	2.61	0.47
1:O0:27:MET:HE3	1:O0:61:VAL:HG22	1.96	0.47
1:O8:27:MET:HE3	1:O8:61:VAL:HG22	1.96	0.47
1:BP:36:VAL:HG11	1:BP:51:ARG:CG	2.44	0.47
1:BS:47:THR:CG2	1:IR:18:VAL:CG2	2.91	0.47
1:DT:88:VAL:HG21	1:FT:25:ASP:HA	1.95	0.47
1:JT:7:ILE:HG12	1:LH:32:GLU:OE1	2.14	0.47
1:DK:28:THR:O	1:LF:83:ARG:NH1	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FI:39:GLN:CD	1:FI:97:GLN:HE22	2.23	0.47
1:JH:72:GLY:HA2	1:OH:77:ALA:HB2	1.95	0.47
1:BL:36:VAL:HG11	1:BL:51:ARG:CG	2.44	0.47
1:CF:25:ASP:CA	1:HO:88:VAL:HG21	2.43	0.47
1:CM:14:THR:HB	1:CM:19:PRO:HB2	1.96	0.47
1:CM:25:ASP:CA	1:HL:88:VAL:HG21	2.43	0.47
1:FM:25:ASP:HA	1:DM:88:VAL:HG21	1.95	0.47
2:PF:39:VAL:HG21	2:PF:67:TYR:CE1	2.49	0.47
1:Bf:36:VAL:HG11	1:Bf:51:ARG:CG	2.44	0.47
1:Ce:14:THR:HB	1:Ce:19:PRO:HB2	1.96	0.47
3:Xe:691:ILE:H	3:Xe:691:ILE:HG13	1.45	0.47
1:BY:36:VAL:HG11	1:BY:51:ARG:CG	2.44	0.47
1:DW:25:ASP:CA	1:Ej:88:VAL:HG21	2.44	0.47
1:JV:72:GLY:HA2	1:OV:77:ALA:HB2	1.95	0.47
1:JW:88:VAL:HG21	1:MW:25:ASP:HA	1.96	0.47
1:BU:61:VAL:HG12	3:Yd:724:ILE:HD11	1.96	0.47
1:GU:31:ALA:HB3	1:GU:60:ALA:HB2	1.96	0.47
1:Jb:88:VAL:HG21	1:Mb:25:ASP:HA	1.96	0.47
1:Jd:88:VAL:HG21	1:Md:25:ASP:HA	1.96	0.47
1:Bv:36:VAL:HG11	1:Bv:51:ARG:CG	2.44	0.47
1:Cw:14:THR:HB	1:Cw:19:PRO:HB2	1.96	0.47
1:Ev:85:HIS:HB2	1:D7:29:LYS:HG3	1.96	0.47
1:Fw:28:THR:HG21	1:Dw:87:GLU:HB2	1.96	0.47
1:Fw:35:LEU:HD23	1:Dw:91:ILE:HG23	1.93	0.47
1:Jw:32:GLU:CD	1:Dw:7:ILE:HD13	2.37	0.47
1:Dm:88:VAL:HG21	1:Fm:25:ASP:HA	1.95	0.47
1:Jn:45:TYR:CE1	3:Xn:694:PRO:HG3	2.49	0.47
1:Bs:47:THR:CG2	1:Ir:18:VAL:CG2	2.91	0.47
1:Jq:88:VAL:HG21	1:Mq:25:ASP:HA	1.96	0.47
1:Js:88:VAL:HG21	1:Ms:25:ASP:HA	1.96	0.47
1:Or:27:MET:HE3	1:Or:61:VAL:HG22	1.96	0.47
2:Pr:42:ILE:HD12	3:Yp:851:SER:HB3	1.96	0.47
3:XY:693:THR:HG22	3:XY:696:ARG:H	1.78	0.47
3:XM:624:SER:HB3	3:XM:627:VAL:HG23	1.96	0.47
3:XM:712:ARG:HG3	3:XM:713:ILE:HG13	1.96	0.47
1:DJ:49:LEU:HD12	1:DJ:93:PRO:HG2	1.95	0.47
1:JI:88:VAL:HG21	1:MI:25:ASP:HA	1.96	0.47
1:Jm:22:GLU:HG2	1:Jm:71:VAL:HG21	1.95	0.47
1:BC:36:VAL:HG11	1:BC:51:ARG:CG	2.44	0.47
1:CC:14:THR:HB	1:CC:19:PRO:HB2	1.96	0.47
1:JB:72:GLY:HA2	1:OB:77:ALA:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XE:643:TYR:HE2	1:Dg:55:GLY:CA	2.27	0.47
1:G4:62:ARG:HG2	3:Y3:785:VAL:HG21	1.95	0.47
1:J5:88:VAL:HG21	1:M5:25:ASP:HA	1.96	0.47
1:D8:88:VAL:HG21	1:F8:25:ASP:HA	1.95	0.47
1:D9:88:VAL:HG21	1:F9:25:ASP:HA	1.95	0.47
1:J9:88:VAL:HG21	1:M9:25:ASP:HA	1.96	0.47
3:Y7:724:ILE:HD12	3:Y7:725:THR:H	1.79	0.47
3:Y0:734:ALA:O	3:Y0:735:ARG:C	2.57	0.47
1:CR:14:THR:HB	1:CR:19:PRO:HB2	1.96	0.47
1:HS:80:ILE:CD1	3:YQ:848:ILE:CG2	2.91	0.47
1:JP:72:GLY:HA2	1:OP:77:ALA:HB2	1.95	0.47
1:BI:36:VAL:HG11	1:BI:51:ARG:CG	2.44	0.47
1:BK:62:ARG:HB3	3:YJ:720:ALA:HB3	1.95	0.47
1:GJ:12:ILE:HG23	1:GJ:75:LEU:HD12	1.95	0.47
1:HI:55:GLY:HA2	2:PH:13:THR:HG21	1.96	0.47
1:BN:59:ALA:HB1	3:YM:716:PRO:HB2	1.96	0.47
1:EN:58:ASN:HB2	3:YN:707:ILE:HD13	1.95	0.47
1:GM:62:ARG:HG2	3:YL:785:VAL:HG21	1.95	0.47
1:HF:80:ILE:CD1	3:YN:848:ILE:HG21	2.43	0.47
1:HN:55:GLY:HA2	2:PM:13:THR:HG21	1.96	0.47
1:Bg:36:VAL:HG11	1:Bg:51:ARG:CG	2.44	0.47
1:Je:72:GLY:HA2	1:Oe:77:ALA:HB2	1.95	0.47
1:Jf:83:ARG:NH1	1:L3:28:THR:O	2.46	0.47
1:Jh:22:GLU:HG2	1:Jh:71:VAL:HG21	1.95	0.47
1:Jh:62:ARG:NH2	3:Xq:624:SER:CB	2.75	0.47
1:Oe:27:MET:HE3	1:Oe:61:VAL:HG22	1.96	0.47
1:BV:36:VAL:HG11	1:BV:51:ARG:CG	2.44	0.47
1:BZ:80:ILE:CD1	3:YY:724:ILE:HD11	2.45	0.47
1:EZ:88:VAL:HG21	1:Dd:25:ASP:HA	1.95	0.47
1:JX:22:GLU:HG2	1:JX:71:VAL:HG21	1.95	0.47
3:XV:691:ILE:H	3:XV:691:ILE:HG13	1.49	0.47
1:Ba:36:VAL:HG11	1:Ba:51:ARG:CG	2.44	0.47
1:Cb:14:THR:HB	1:Cb:19:PRO:HB2	1.97	0.47
1:MU:25:ASP:HA	1:JU:88:VAL:HG21	1.96	0.47
1:Ex:90:ASN:CB	1:Dk:97:GLN:HA	2.29	0.47
1:Ht:80:ILE:HD12	3:Yw:848:ILE:HG21	1.95	0.47
2:Pv:68:PRO:HA	2:Pw:57:ALA:HB1	1.94	0.47
1:Bl:36:VAL:HG11	1:Bl:51:ARG:CG	2.44	0.47
1:Bn:36:VAL:HG11	1:Bn:51:ARG:CG	2.44	0.47
1:Nn:62:ARG:HD2	3:Ym:712:ARG:NH2	2.29	0.47
1:Bp:36:VAL:HG11	1:Bp:51:ARG:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bs:36:VAL:HG11	1:Bs:51:ARG:CG	2.44	0.47
1:Os:27:MET:HE3	1:Os:61:VAL:HG22	1.96	0.47
2:Ps:39:VAL:HG23	2:Pj:1:MET:HE1	1.96	0.47
3:Yq:724:ILE:HD12	3:Yq:725:THR:H	1.79	0.47
3:X7:712:ARG:HG3	3:X7:713:ILE:HG13	1.96	0.47
1:DM:34:ARG:HG2	1:DM:51:ARG:O	2.14	0.47
1:DH:58:ASN:CG	3:Xa:621:VAL:HG21	2.39	0.47
1:EC:88:VAL:HG21	1:Dq:25:ASP:OD1	2.14	0.47
1:MC:25:ASP:HA	1:JC:88:VAL:HG21	1.96	0.47
1:OD:27:MET:HE3	1:OD:61:VAL:HG22	1.96	0.47
1:B2:36:VAL:HG11	1:B2:51:ARG:CG	2.44	0.47
1:C4:14:THR:HB	1:C4:19:PRO:HB2	1.97	0.47
1:C4:25:ASP:CA	1:H3:88:VAL:HG21	2.43	0.47
1:K1:58:ASN:OD1	3:Y5:802:VAL:HG13	2.15	0.47
1:G7:12:ILE:HG23	1:G7:75:LEU:HD12	1.95	0.47
1:H6:62:ARG:HG3	3:Y9:848:ILE:CD1	2.32	0.47
1:J7:32:GLU:CG	1:D7:7:ILE:HD11	2.44	0.47
1:GS:12:ILE:HG23	1:GS:75:LEU:HD12	1.95	0.47
1:OQ:27:MET:HE3	1:OQ:61:VAL:HG22	1.96	0.47
1:AH:30:ALA:O	1:GH:82:ALA:HB3	2.14	0.47
1:BF:36:VAL:HG11	1:BF:51:ARG:CG	2.44	0.47
2:PN:42:ILE:HD12	3:YL:851:SER:HB3	1.96	0.47
1:Gg:12:ILE:HG23	1:Gg:75:LEU:HD12	1.95	0.47
1:Ji:88:VAL:HG21	1:Mi:25:ASP:HA	1.96	0.47
1:Oi:27:MET:HE3	1:Oi:61:VAL:HG22	1.96	0.47
1:DW:28:THR:CG2	1:Ej:85:HIS:CE1	2.97	0.47
1:EU:81:ILE:CG2	1:DH:25:ASP:OD2	2.61	0.47
1:HU:80:ILE:CD1	3:Yc:848:ILE:HG21	2.43	0.47
1:Ct:73:ASP:OD2	1:Hx:45:TYR:OH	2.20	0.47
1:Jt:88:VAL:HG21	1:Mt:25:ASP:HA	1.96	0.47
1:Ju:88:VAL:HG21	1:Mu:25:ASP:HA	1.96	0.47
1:Ow:27:MET:HE3	1:Ow:61:VAL:HG22	1.96	0.47
1:Ck:14:THR:HB	1:Ck:19:PRO:HB2	1.97	0.47
1:Co:72:GLY:HA2	1:Hn:77:ALA:HB2	1.97	0.47
1:Dk:88:VAL:HG21	1:Fk:25:ASP:HA	1.95	0.47
1:Jk:72:GLY:HA2	1:Ok:77:ALA:HB2	1.95	0.47
1:Jk:88:VAL:HG21	1:Mk:25:ASP:HA	1.96	0.47
1:Jl:22:GLU:HG2	1:Jl:71:VAL:HG21	1.95	0.47
1:No:79:HIS:HA	3:Yn:714:THR:O	2.15	0.47
1:Ok:27:MET:HE3	1:Ok:61:VAL:HG22	1.96	0.47
1:Oo:27:MET:HE3	1:Oo:61:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bq:36:VAL:HG11	1:Bq:51:ARG:CG	2.44	0.47
1:Br:36:VAL:HG11	1:Br:51:ARG:CG	2.44	0.47
1:Cj:73:ASP:OD2	1:Hs:45:TYR:OH	2.24	0.47
1:Cp:18:VAL:HG22	1:Hj:11:MET:CB	2.43	0.47
1:Hj:80:ILE:CD1	3:Yr:848:ILE:HG21	2.43	0.47
1:Jj:88:VAL:HG21	1:Mj:25:ASP:HA	1.96	0.47
1:Jq:45:TYR:CE1	3:Xq:694:PRO:HG3	2.49	0.47
2:Pp:42:ILE:HD12	2:Pj:14:ASN:O	2.15	0.47
3:XX:617:SER:HB3	1:Dj:79:HIS:NE2	2.21	0.47
1:EL:15:ARG:HD2	1:EL:73:ASP:HB3	1.96	0.47
1:DJ:9:LEU:HB3	1:DJ:81:ILE:HG22	1.95	0.47
1:DH:15:ARG:HG3	1:DH:76:VAL:CG2	2.44	0.47
1:AB:30:ALA:O	1:GB:82:ALA:HB3	2.14	0.47
1:CE:14:THR:HB	1:CE:19:PRO:HB2	1.97	0.47
1:DC:25:ASP:HA	1:Eq:88:VAL:HG21	1.96	0.47
1:GD:12:ILE:HG23	1:GD:75:LEU:HD12	1.95	0.47
2:PD:68:PRO:HA	2:PE:57:ALA:HB1	1.97	0.47
1:B4:47:THR:CG2	1:I3:18:VAL:CG2	2.91	0.47
1:O3:27:MET:HE3	1:O3:61:VAL:HG22	1.96	0.47
1:B7:47:THR:CG2	1:I6:18:VAL:CG2	2.91	0.47
1:C0:72:GLY:HA2	1:H9:77:ALA:HB2	1.97	0.47
1:J7:45:TYR:CE1	3:X7:694:PRO:HG3	2.49	0.47
1:O7:80:ILE:O	3:X7:716:PRO:HD3	2.15	0.47
1:CT:30:ALA:HA	2:PS:23:PRO:HB3	1.96	0.47
1:DP:88:VAL:HG21	1:FP:25:ASP:HA	1.95	0.47
1:JS:79:HIS:CD2	3:Xb:628:THR:OG1	2.66	0.47
1:CI:14:THR:HB	1:CI:19:PRO:HB2	1.97	0.47
1:CK:14:THR:HB	1:CK:19:PRO:HB2	1.96	0.47
1:OJ:27:MET:HE3	1:OJ:61:VAL:HG22	1.96	0.47
2:PG:42:ILE:HD12	2:PK:14:ASN:O	2.15	0.47
1:BM:47:THR:CG2	1:IL:18:VAL:CG2	2.91	0.47
1:JL:79:HIS:CB	3:Xx:628:THR:HG1	2.13	0.47
1:JL:88:VAL:HG21	1:ML:25:ASP:HA	1.96	0.47
1:KN:58:ASN:OD1	3:YM:802:VAL:HG13	2.15	0.47
1:LL:15:ARG:HG2	3:XL:691:ILE:HG23	1.95	0.47
1:OL:27:MET:HE3	1:OL:61:VAL:HG22	1.96	0.47
1:Ci:30:ALA:HA	2:Ph:23:PRO:HB3	1.96	0.47
1:Ci:72:GLY:HA2	1:Hh:77:ALA:HB2	1.97	0.47
1:Ei:88:VAL:HG21	1:DV:25:ASP:HA	1.95	0.47
1:Hi:80:ILE:CD1	3:Yg:848:ILE:HG21	2.43	0.47
1:Jf:22:GLU:HG2	1:Jf:71:VAL:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BX:36:VAL:HG11	1:BX:51:ARG:CG	2.44	0.47
1:BZ:36:VAL:HG11	1:BZ:51:ARG:CG	2.44	0.47
1:CW:73:ASP:OD2	1:HV:45:TYR:OH	2.24	0.47
1:DW:18:VAL:HG22	1:Ej:11:MET:HB3	1.96	0.47
1:DW:28:THR:HG23	1:Ej:87:GLU:OE1	2.15	0.47
1:NY:62:ARG:HD2	3:YX:712:ARG:NH2	2.29	0.47
1:Bb:83:ARG:NH1	1:Ea:28:THR:O	2.43	0.47
1:Ca:14:THR:HB	1:Ca:19:PRO:HB2	1.96	0.47
1:Kc:58:ASN:OD1	3:Yb:802:VAL:HG13	2.15	0.47
1:Oa:27:MET:HE3	1:Oa:61:VAL:HG22	1.96	0.47
1:Ob:27:MET:HE3	1:Ob:61:VAL:HG22	1.96	0.47
2:Pc:14:ASN:O	3:Yb:851:SER:HB3	2.13	0.47
1:Bt:36:VAL:HG11	1:Bt:51:ARG:CG	2.44	0.47
1:Ov:91:ILE:HG21	1:Jv:35:LEU:CD2	2.45	0.47
1:Bm:36:VAL:HG11	1:Bm:51:ARG:CG	2.44	0.47
1:Eo:88:VAL:HG21	1:Ds:25:ASP:HA	1.96	0.47
1:Gm:12:ILE:HG23	1:Gm:75:LEU:HD12	1.95	0.47
1:Ho:80:ILE:CD1	3:Ym:848:ILE:HG21	2.43	0.47
1:Jl:45:TYR:CE1	3:Xl:694:PRO:HG3	2.49	0.47
3:Ym:703:THR:O	1:Em:79:HIS:CG	2.67	0.47
1:Cs:14:THR:HB	1:Cs:19:PRO:HB2	1.96	0.47
1:Gj:42:GLY:C	1:Gj:44:GLY:N	2.69	0.47
1:Hp:62:ARG:HG2	3:Ys:848:ILE:HD11	1.83	0.47
1:Jp:22:GLU:HG2	1:Jp:71:VAL:HG21	1.95	0.47
1:FY:35:LEU:HD23	1:DY:91:ILE:CG2	2.44	0.47
1:Dq:14:THR:OG1	1:Dq:20:ALA:HB2	2.14	0.47
1:Dl:42:GLY:C	1:Dl:44:GLY:N	2.67	0.47
1:DB:9:LEU:HD11	1:DB:49:LEU:HD23	1.97	0.47
1:DB:28:THR:HG22	1:Eu:85:HIS:CE1	2.50	0.47
1:KC:58:ASN:OD1	3:YB:802:VAL:HG13	2.15	0.47
1:B4:47:THR:HG23	1:I3:18:VAL:HG23	1.93	0.47
1:H2:62:ARG:HG3	3:Y5:848:ILE:CD1	2.26	0.47
1:O5:27:MET:HE3	1:O5:61:VAL:HG22	1.96	0.47
1:C8:14:THR:HB	1:C8:19:PRO:HB2	1.96	0.47
1:L8:62:ARG:NH1	3:X8:634:GLU:O	2.47	0.47
1:L8:80:ILE:HD12	3:X8:638:ILE:HG21	1.97	0.47
2:P6:42:ILE:HD12	2:P0:14:ASN:O	2.15	0.47
1:CT:14:THR:HB	1:CT:19:PRO:HB2	1.97	0.47
1:BK:80:ILE:CD1	3:YJ:724:ILE:HD11	2.45	0.47
3:YH:802:VAL:HG13	1:KI:58:ASN:OD1	2.15	0.47
1:JN:88:VAL:HG21	1:MN:25:ASP:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ch:14:THR:HB	1:Ch:19:PRO:HB2	1.97	0.47
1:Jf:80:ILE:HD12	3:X3:627:VAL:HG12	1.96	0.47
2:Ph:68:PRO:HA	2:Pi:57:ALA:HB1	1.97	0.47
1:HW:62:ARG:HG2	3:YZ:848:ILE:HD11	1.81	0.47
1:KV:58:ASN:OD1	3:YZ:802:VAL:HG13	2.15	0.47
1:Bd:36:VAL:HG11	1:Bd:51:ARG:CG	2.44	0.47
1:Gc:12:ILE:HG23	1:Gc:75:LEU:HD12	1.95	0.47
1:OU:27:MET:HE3	1:OU:61:VAL:HG22	1.96	0.47
1:Cv:14:THR:HB	1:Cv:19:PRO:HB2	1.97	0.47
1:Jx:7:ILE:HG12	1:Ll:32:GLU:OE1	2.14	0.47
1:Ov:27:MET:HE3	1:Ov:61:VAL:HG22	1.96	0.47
2:Px:53:VAL:HB	2:Px:74:ILE:HD13	1.95	0.47
3:Xt:643:TYR:HE1	1:Dk:58:ASN:HB3	1.80	0.47
1:Do:28:THR:O	1:Lj:83:ARG:NH1	2.46	0.47
1:Br:59:ALA:HB1	3:Yq:716:PRO:HB2	1.96	0.47
1:LM:80:ILE:HD12	3:XM:639:SER:O	2.15	0.47
1:L3:80:ILE:HB	3:X3:641:ASP:O	2.15	0.47
1:DI:85:HIS:HB3	1:DI:88:VAL:HG23	1.96	0.47
1:JU:22:GLU:HG2	1:JU:71:VAL:HG21	1.95	0.47
1:JF:91:ILE:HG21	1:MF:35:LEU:CD2	2.42	0.47
1:EE:88:VAL:HG21	1:D1:25:ASP:HA	1.95	0.47
1:GC:12:ILE:HG23	1:GC:75:LEU:HD12	1.95	0.47
1:OB:27:MET:HE3	1:OB:61:VAL:HG22	1.96	0.47
2:PA:42:ILE:HD12	2:PE:14:ASN:O	2.15	0.47
2:PD:28:TRP:CD2	2:PD:31:PRO:HA	2.50	0.47
1:B5:80:ILE:CD1	3:Y4:724:ILE:HD11	2.44	0.47
1:B0:61:VAL:HG12	3:Y9:724:ILE:HD11	1.97	0.47
1:B6:66:ASP:OD2	3:Y0:719:LEU:HB2	2.14	0.47
1:C0:79:HIS:HD2	3:Y8:862:THR:OG1	1.98	0.47
1:D0:61:VAL:CG1	3:XR:616:ILE:HD12	2.26	0.47
1:BP:61:VAL:HG12	3:YT:724:ILE:HD13	1.97	0.47
1:JS:88:VAL:HG21	1:MS:25:ASP:HA	1.96	0.47
1:LP:29:LYS:O	1:MG:29:LYS:NZ	2.42	0.47
2:PP:1:MET:HE1	2:PT:39:VAL:HG23	1.97	0.47
2:PT:53:VAL:HB	2:PT:74:ILE:HD13	1.95	0.47
1:GG:12:ILE:HG23	1:GG:75:LEU:HD12	1.95	0.47
1:GI:12:ILE:HG23	1:GI:75:LEU:HD12	1.95	0.47
1:NK:79:HIS:HA	3:YJ:714:THR:O	2.14	0.47
1:OH:27:MET:HE3	1:OH:61:VAL:HG22	1.96	0.47
2:PJ:39:VAL:HG23	2:PK:1:MET:HE1	1.96	0.47
1:BF:59:ALA:HB1	3:YO:716:PRO:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EM:77:ALA:HB2	1:D6:72:GLY:HA2	1.97	0.47
1:ON:27:MET:HE3	1:ON:61:VAL:HG22	1.96	0.47
1:Bi:36:VAL:HG11	1:Bi:51:ARG:CG	2.44	0.47
1:Kg:58:ASN:OD1	3:Yf:802:VAL:HG13	2.15	0.47
2:Pe:1:MET:HE1	2:Pi:39:VAL:HG23	1.97	0.47
1:BX:85:HIS:HB3	1:BX:88:VAL:HG23	1.96	0.47
1:CV:14:THR:HB	1:CV:19:PRO:HB2	1.97	0.47
1:Cc:14:THR:HB	1:Cc:19:PRO:HB2	1.96	0.47
1:Bw:36:VAL:HG11	1:Bw:51:ARG:CG	2.44	0.47
1:Bw:83:ARG:NH1	1:Ev:28:THR:O	2.43	0.47
1:Bx:62:ARG:HB3	3:Yw:720:ALA:HB3	1.95	0.47
1:Gx:12:ILE:HG23	1:Gx:75:LEU:HD12	1.95	0.47
1:Ju:22:GLU:HG2	1:Ju:71:VAL:HG21	1.95	0.47
1:Mv:35:LEU:H	1:Jv:87:GLU:CD	2.23	0.47
2:Pv:53:VAL:HG22	2:Pv:54:GLY:H	1.79	0.47
3:Xv:644:VAL:CG2	3:Xv:649:THR:HB	2.45	0.47
2:Pk:1:MET:HE1	2:Po:39:VAL:HG23	1.97	0.47
2:Pn:39:VAL:HG23	2:Po:1:MET:HE1	1.96	0.47
3:Xb:712:ARG:HG3	3:Xb:713:ILE:HG13	1.96	0.47
1:FY:28:THR:HG21	1:DY:87:GLU:HG2	1.97	0.47
1:JF:83:ARG:HD2	1:Lm:31:ALA:O	2.14	0.47
1:BB:36:VAL:HG11	1:BB:51:ARG:CG	2.44	0.47
1:BD:36:VAL:HG11	1:BD:51:ARG:CG	2.44	0.47
1:CD:14:THR:HB	1:CD:19:PRO:HB2	1.97	0.47
1:DB:13:GLU:HB3	1:DB:76:VAL:HB	1.95	0.47
1:DB:31:ALA:O	1:Lv:83:ARG:HD2	2.14	0.47
1:EC:25:ASP:HA	1:FC:88:VAL:HG21	1.97	0.47
1:GA:12:ILE:HG23	1:GA:75:LEU:HD12	1.95	0.47
1:GB:25:ASP:HA	1:IB:88:VAL:HG21	1.97	0.47
3:XA:643:TYR:HE1	1:D1:58:ASN:HB3	1.79	0.47
3:XE:691:ILE:HD12	3:XE:691:ILE:O	2.15	0.47
1:B4:66:ASP:OD1	3:Y3:720:ALA:HB2	2.14	0.47
1:C1:14:THR:HB	1:C1:19:PRO:HB2	1.97	0.47
1:D2:79:HIS:CD2	3:Xg:617:SER:C	2.93	0.47
1:D5:28:THR:O	1:L0:83:ARG:NH1	2.46	0.47
1:F4:28:THR:HB	1:D4:85:HIS:HD1	1.57	0.47
1:N3:62:ARG:HD2	3:Y2:712:ARG:NH2	2.29	0.47
1:N4:62:ARG:HD2	3:Y3:712:ARG:NH2	2.29	0.47
1:O2:27:MET:HE3	1:O2:61:VAL:HG22	1.96	0.47
1:C8:12:ILE:HG23	1:C8:75:LEU:CD1	2.45	0.47
1:C9:14:THR:HB	1:C9:19:PRO:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H9:62:ARG:HG3	3:Y7:848:ILE:CD1	2.24	0.47
1:J7:88:VAL:HG21	1:M7:25:ASP:HA	1.96	0.47
1:L6:15:ARG:HG2	3:X6:691:ILE:HG23	1.95	0.47
1:O7:27:MET:HE3	1:O7:61:VAL:HG22	1.96	0.47
2:P9:39:VAL:HG23	2:P0:1:MET:HE1	1.96	0.47
1:AQ:30:ALA:O	1:GQ:82:ALA:HB3	2.14	0.47
1:BT:62:ARG:HB3	3:YS:720:ALA:HB3	1.95	0.47
1:CT:12:ILE:HG23	1:CT:75:LEU:CD1	2.45	0.47
1:GQ:72:GLY:HA2	1:IQ:77:ALA:HB2	1.96	0.47
1:JR:88:VAL:HG21	1:MR:25:ASP:HA	1.96	0.47
1:MQ:83:ARG:NH1	1:MN:28:THR:O	2.38	0.47
1:OS:27:MET:HE3	1:OS:61:VAL:HG22	1.96	0.47
2:PS:4:MET:HE3	2:PS:29:GLU:HG3	1.96	0.47
1:BH:36:VAL:HG11	1:BH:51:ARG:CG	2.44	0.47
1:BJ:36:VAL:HG11	1:BJ:51:ARG:CG	2.44	0.47
1:CJ:14:THR:HB	1:CJ:19:PRO:HB2	1.97	0.47
1:FH:17:LEU:HD23	1:DH:47:THR:HG21	1.97	0.47
1:GH:25:ASP:HA	1:IH:88:VAL:HG21	1.97	0.47
3:YH:712:ARG:NH2	1:NI:62:ARG:HD2	2.29	0.47
1:BL:41:VAL:HG13	1:IF:40:PHE:HD1	1.80	0.47
1:BM:36:VAL:HG11	1:BM:51:ARG:CG	2.44	0.47
1:CF:79:HIS:HD2	3:YN:862:THR:OG1	1.98	0.47
1:CO:14:THR:HB	1:CO:19:PRO:HB2	1.96	0.47
1:GF:42:GLY:C	1:GF:44:GLY:N	2.69	0.47
1:OF:27:MET:HE3	1:OF:61:VAL:HG22	1.96	0.47
2:PL:1:MET:HE1	2:PF:39:VAL:HG23	1.97	0.47
3:XF:724:ILE:HG21	1:FF:62:ARG:HG2	1.96	0.47
3:YM:724:ILE:HD12	3:YM:725:THR:H	1.79	0.47
1:Cf:12:ILE:HG23	1:Cf:75:LEU:CD1	2.45	0.47
1:Cg:14:THR:HB	1:Cg:19:PRO:HB2	1.97	0.47
1:Ch:12:ILE:HG23	1:Ch:75:LEU:CD1	2.45	0.47
1:Di:72:GLY:CA	1:EV:77:ALA:HB2	2.45	0.47
1:Eh:13:GLU:OE2	1:Dp:17:LEU:N	2.37	0.47
3:Xg:644:VAL:CG2	3:Xg:649:THR:HB	2.45	0.47
1:BY:47:THR:CG2	1:IX:18:VAL:CG2	2.91	0.47
1:CW:12:ILE:HG23	1:CW:75:LEU:CD1	2.45	0.47
1:CX:12:ILE:HG23	1:CX:75:LEU:CD1	2.45	0.47
1:CZ:79:HIS:HD2	3:YX:862:THR:OG1	1.98	0.47
1:DW:21:ILE:HG21	1:Ej:92:LEU:HD21	1.96	0.47
1:DX:88:VAL:HG21	1:FX:25:ASP:HA	1.95	0.47
1:NZ:79:HIS:HA	3:YY:714:THR:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OX:27:MET:HE3	1:OX:61:VAL:HG22	1.96	0.47
2:PV:1:MET:HE1	2:PZ:39:VAL:HG23	1.97	0.47
1:Bb:36:VAL:HG11	1:Bb:51:ARG:CG	2.44	0.47
1:Bd:47:THR:CG2	1:Ic:18:VAL:CG2	2.91	0.47
1:EU:92:LEU:HD23	1:DH:21:ILE:HD13	1.95	0.47
1:Ec:25:ASP:HA	1:Fc:88:VAL:HG21	1.97	0.47
1:Bt:41:VAL:HG13	1:Ix:40:PHE:HD1	1.80	0.47
1:Bx:36:VAL:HG11	1:Bx:51:ARG:CG	2.44	0.47
1:Cx:14:THR:HB	1:Cx:19:PRO:HB2	1.97	0.47
1:Cx:25:ASP:CA	1:Hw:88:VAL:HG21	2.43	0.47
1:Et:11:MET:HB3	1:Dr:18:VAL:HG22	1.97	0.47
1:Ex:25:ASP:HA	1:Fx:88:VAL:HG21	1.97	0.47
1:Ou:27:MET:HE3	1:Ou:61:VAL:HG22	1.96	0.47
1:Ov:87:GLU:HG3	1:Jv:28:THR:HG23	1.97	0.47
2:Pw:68:PRO:HA	2:Px:57:ALA:HB1	1.97	0.47
3:Xv:691:ILE:HD12	3:Xv:691:ILE:O	2.15	0.47
3:Xx:691:ILE:HD12	3:Xx:691:ILE:O	2.15	0.47
1:Bo:36:VAL:HG11	1:Bo:51:ARG:CG	2.44	0.47
1:Cl:12:ILE:HG23	1:Cl:75:LEU:CD1	2.45	0.47
1:Cm:14:THR:HB	1:Cm:19:PRO:HB2	1.97	0.47
1:Cn:12:ILE:HG23	1:Cn:75:LEU:CD1	2.45	0.47
1:Cn:14:THR:HB	1:Cn:19:PRO:HB2	1.97	0.47
1:En:25:ASP:HA	1:Fn:88:VAL:HG21	1.97	0.47
3:Yl:802:VAL:HG13	1:Km:58:ASN:OD1	2.15	0.47
1:Cp:12:ILE:HG23	1:Cp:75:LEU:CD1	2.45	0.47
1:Dp:88:VAL:HG21	1:Fp:25:ASP:HA	1.95	0.47
1:Ep:85:HIS:CG	1:Dh:28:THR:HG22	2.50	0.47
1:Lr:65:ALA:HB3	3:Xr:636:GLN:HG2	1.97	0.47
3:X4:693:THR:HG22	3:X4:696:ARG:H	1.78	0.47
3:XS:691:ILE:HD12	3:XS:691:ILE:O	2.15	0.47
1:Dw:7:ILE:HD12	1:Dw:83:ARG:HG3	1.97	0.47
1:Dw:11:MET:HG3	1:Dw:79:HIS:HB3	1.96	0.47
1:Dw:19:PRO:CG	1:Dw:72:GLY:HA3	2.36	0.47
3:Xr:712:ARG:HG3	3:Xr:713:ILE:HG13	1.96	0.47
1:DY:85:HIS:HB3	1:DY:88:VAL:HG23	1.97	0.47
1:Db:28:THR:HG22	1:E3:85:HIS:CE1	2.46	0.47
1:Dq:58:ASN:O	1:Dq:62:ARG:HG3	2.14	0.47
1:DH:41:VAL:HB	1:DH:45:TYR:HB2	1.96	0.47
3:X3:626:LEU:H	3:X3:626:LEU:HD12	1.80	0.47
1:B5:36:VAL:HG11	1:B5:51:ARG:CG	2.44	0.47
1:C3:12:ILE:HG23	1:C3:75:LEU:CD1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E4:25:ASP:HA	1:F4:88:VAL:HG21	1.97	0.47
2:P1:42:ILE:HD12	2:P5:14:ASN:O	2.15	0.47
1:C7:14:THR:HB	1:C7:19:PRO:HB2	1.96	0.47
1:J8:88:VAL:HG21	1:M8:25:ASP:HA	1.96	0.47
1:CS:14:THR:HB	1:CS:19:PRO:HB2	1.97	0.47
1:JQ:88:VAL:HG21	1:MQ:25:ASP:HA	1.96	0.47
1:JT:88:VAL:HG21	1:MT:25:ASP:HA	1.96	0.47
3:XR:644:VAL:CG2	3:XR:649:THR:HB	2.45	0.47
3:XT:624:SER:HB3	3:XT:627:VAL:HG23	1.96	0.47
1:EK:88:VAL:HG21	1:DO:25:ASP:HA	1.95	0.47
3:XK:643:TYR:HD1	1:Dm:59:ALA:HB2	1.80	0.47
1:BM:47:THR:HG23	1:IL:18:VAL:HG23	1.93	0.47
1:CF:14:THR:HB	1:CF:19:PRO:HB2	1.96	0.47
1:CL:12:ILE:HG23	1:CL:75:LEU:CD1	2.45	0.47
1:EM:25:ASP:HA	1:FM:88:VAL:HG21	1.97	0.47
1:OM:27:MET:HE3	1:OM:61:VAL:HG22	1.96	0.47
1:Ce:12:ILE:HG23	1:Ce:75:LEU:CD1	2.45	0.47
1:Je:88:VAL:HG21	1:Me:25:ASP:HA	1.96	0.47
1:Mh:30:ALA:O	1:Mq:82:ALA:HB3	2.15	0.47
2:Ph:28:TRP:CD2	2:Ph:31:PRO:HA	2.50	0.47
3:Xi:691:ILE:HD12	3:Xi:691:ILE:O	2.15	0.47
1:JZ:88:VAL:HG21	1:MZ:25:ASP:HA	1.96	0.47
1:MX:28:THR:O	1:Mo:83:ARG:NH1	2.42	0.47
1:NX:62:ARG:HD2	3:YW:712:ARG:NH2	2.29	0.47
1:OY:27:MET:HE3	1:OY:61:VAL:HG22	1.96	0.47
2:PV:42:ILE:HD12	2:PZ:14:ASN:O	2.15	0.47
1:Ob:80:ILE:O	3:Xb:716:PRO:HD3	2.15	0.47
2:Pa:42:ILE:HD12	2:PU:14:ASN:O	2.15	0.47
1:Et:90:ASN:HB3	1:Dr:97:GLN:CA	2.34	0.47
1:Jx:88:VAL:HG21	1:Mx:25:ASP:HA	1.96	0.47
1:Am:36:VAL:O	1:Am:96:PRO:HA	2.14	0.47
1:Ck:12:ILE:HG23	1:Ck:75:LEU:CD1	2.45	0.47
1:Gl:72:GLY:HA2	1:Il:77:ALA:HB2	1.96	0.47
1:Nn:31:ALA:C	1:Em:83:ARG:CZ	2.81	0.47
3:Xh:691:ILE:HD12	3:Xh:691:ILE:O	2.15	0.47
1:CE:72:GLY:HA2	1:HD:77:ALA:HB2	1.97	0.47
1:EB:25:ASP:HA	1:FB:88:VAL:HG21	1.97	0.47
1:OA:27:MET:HE3	1:OA:61:VAL:HG22	1.96	0.47
2:PA:1:MET:HE1	2:PE:39:VAL:HG23	1.97	0.47
1:H4:80:ILE:CD1	3:Y2:848:ILE:CG2	2.91	0.47
1:J2:88:VAL:HG21	1:M2:25:ASP:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O4:27:MET:HE3	1:O4:61:VAL:HG22	1.96	0.47
2:P4:39:VAL:HG23	2:P5:1:MET:HE1	1.96	0.47
1:B0:91:ILE:HD12	1:I9:21:ILE:CD1	2.44	0.47
1:B6:41:VAL:HG13	1:I0:40:PHE:HD1	1.80	0.47
1:B8:36:VAL:HG11	1:B8:51:ARG:CG	2.44	0.47
1:J0:88:VAL:HG21	1:M0:25:ASP:HA	1.96	0.47
1:M6:28:THR:HG21	1:J6:87:GLU:HB2	1.96	0.47
1:BR:36:VAL:HG11	1:BR:51:ARG:CG	2.44	0.47
1:BT:36:VAL:HG11	1:BT:51:ARG:CG	2.44	0.47
1:CP:14:THR:HB	1:CP:19:PRO:HB2	1.97	0.47
1:CQ:12:ILE:HG23	1:CQ:75:LEU:CD1	2.45	0.47
2:PS:68:PRO:HA	2:PT:57:ALA:HB1	1.97	0.47
1:BJ:66:ASP:OD1	3:YI:720:ALA:HB2	2.14	0.47
1:BF:61:VAL:HG12	3:YO:724:ILE:HD11	1.97	0.47
1:CL:14:THR:HB	1:CL:19:PRO:HB2	1.97	0.47
2:PO:39:VAL:HG21	2:PO:67:TYR:HE2	1.80	0.47
1:Eh:25:ASP:HA	1:Fh:88:VAL:HG21	1.97	0.47
1:Gf:72:GLY:HA2	1:If:77:ALA:HB2	1.96	0.47
2:Pe:42:ILE:HD12	2:Pi:14:ASN:O	2.15	0.47
3:Xi:624:SER:HB3	3:Xi:627:VAL:HG23	1.96	0.47
1:BV:41:VAL:HG13	1:IZ:40:PHE:HD1	1.80	0.47
1:DZ:28:THR:O	1:LU:83:ARG:NH1	2.46	0.47
1:EV:25:ASP:HA	1:FV:88:VAL:HG21	1.97	0.47
3:XZ:643:TYR:CD1	1:DI:59:ALA:HB2	2.49	0.47
1:CU:72:GLY:HA2	1:Hd:77:ALA:HB2	1.97	0.47
1:Lc:80:ILE:HD12	3:Xc:638:ILE:HG21	1.97	0.47
1:Bt:61:VAL:HG12	3:Yx:724:ILE:HD13	1.97	0.47
1:Bx:91:ILE:HD12	1:Iw:21:ILE:CD1	2.44	0.47
1:Dt:72:GLY:HA2	1:Er:77:ALA:HB2	1.97	0.47
1:Kt:58:ASN:OD1	3:Yx:802:VAL:HG13	2.15	0.47
1:Hn:62:ARG:HG3	3:Yl:848:ILE:CD1	2.24	0.47
2:Pk:42:ILE:HD12	2:Po:14:ASN:O	2.15	0.47
3:Yl:712:ARG:NH2	1:Nm:62:ARG:HD2	2.29	0.47
1:Cj:12:ILE:HG23	1:Cj:75:LEU:CD1	2.45	0.47
1:Jj:65:ALA:HB1	3:XX:626:LEU:HD22	1.97	0.47
1:Op:27:MET:HE3	1:Op:61:VAL:HG22	1.96	0.47
1:Oq:27:MET:HE3	1:Oq:61:VAL:HG22	1.96	0.47
3:Xc:712:ARG:HG3	3:Xc:713:ILE:HG13	1.96	0.47
1:Dw:22:GLU:HG2	1:Dw:71:VAL:HG21	1.96	0.47
3:Xq:643:TYR:HE1	1:Dh:59:ALA:N	2.13	0.47
1:Jm:88:VAL:HG21	1:Mm:25:ASP:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CC:12:ILE:HG23	1:CC:75:LEU:CD1	2.45	0.47
1:CE:12:ILE:HG23	1:CE:75:LEU:CD1	2.45	0.47
1:CE:79:HIS:HD2	3:YC:862:THR:OG1	1.98	0.47
1:DE:28:THR:CG2	1:E1:85:HIS:CE1	2.98	0.47
1:OC:27:MET:HE3	1:OC:61:VAL:HG22	1.96	0.47
3:XC:644:VAL:CG2	3:XC:649:THR:HB	2.45	0.47
3:XC:691:ILE:HD12	3:XC:691:ILE:O	2.15	0.47
3:XE:624:SER:HB3	3:XE:627:VAL:HG23	1.96	0.47
1:A2:30:ALA:O	1:G2:82:ALA:HB3	2.14	0.47
1:B1:41:VAL:HG13	1:I5:40:PHE:HD1	1.80	0.47
1:B3:41:VAL:HG13	1:I2:40:PHE:CD1	2.50	0.47
1:B4:36:VAL:HG11	1:B4:51:ARG:CG	2.44	0.47
1:C2:14:THR:HB	1:C2:19:PRO:HB2	1.97	0.47
1:G2:25:ASP:HA	1:I2:88:VAL:HG21	1.97	0.47
1:B8:41:VAL:HG13	1:I7:40:PHE:CD1	2.50	0.47
1:E7:25:ASP:HA	1:F7:88:VAL:HG21	1.97	0.47
1:K6:58:ASN:OD1	3:Y0:802:VAL:HG13	2.15	0.47
3:X6:627:VAL:CG1	1:JQ:80:ILE:HD12	2.45	0.47
1:BP:41:VAL:HG13	1:IT:40:PHE:HD1	1.80	0.47
1:CT:79:HIS:HD2	3:YR:862:THR:OG1	1.98	0.47
1:ES:25:ASP:HA	1:FS:88:VAL:HG21	1.97	0.47
1:ET:88:VAL:HG21	1:DG:25:ASP:HA	1.95	0.47
1:KR:58:ASN:OD1	3:YQ:802:VAL:HG13	2.15	0.47
3:XP:643:TYR:HE1	1:DG:58:ASN:HB3	1.80	0.47
1:CH:12:ILE:HG23	1:CH:75:LEU:CD1	2.45	0.47
1:CI:12:ILE:HG23	1:CI:75:LEU:CD1	2.45	0.47
1:CK:12:ILE:HG23	1:CK:75:LEU:CD1	2.45	0.47
1:FJ:18:VAL:HB	1:DJ:13:GLU:OE1	2.15	0.47
1:GI:85:HIS:HB3	1:GI:88:VAL:HG23	1.97	0.47
1:OG:27:MET:HE3	1:OG:61:VAL:HG22	1.96	0.47
2:PG:1:MET:HE1	2:PK:39:VAL:HG23	1.97	0.47
3:XK:624:SER:CB	1:Jm:62:ARG:HH21	2.25	0.47
1:LF:29:LYS:O	1:MK:29:LYS:NZ	2.45	0.47
3:XL:725:THR:C	1:FL:79:HIS:ND1	2.73	0.47
1:Be:36:VAL:HG11	1:Be:51:ARG:CG	2.44	0.47
1:Ee:11:MET:HB3	1:Dc:18:VAL:HG22	1.97	0.47
1:Ff:25:ASP:HA	1:Df:88:VAL:HG21	1.95	0.47
2:Pf:16:ILE:HD11	2:Pf:68:PRO:HG3	1.97	0.47
1:CZ:12:ILE:HG23	1:CZ:75:LEU:CD1	2.45	0.47
1:GZ:12:ILE:HG23	1:GZ:75:LEU:HD12	1.95	0.47
1:HX:55:GLY:HA2	2:PW:13:THR:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HY:62:ARG:HG2	3:YW:848:ILE:HD11	1.83	0.47
2:PY:39:VAL:HG23	2:PZ:1:MET:HE1	1.96	0.47
1:Bc:36:VAL:HG11	1:Bc:51:ARG:CG	2.44	0.47
1:CU:79:HIS:HD2	3:Yc:862:THR:OG1	1.98	0.47
1:Cd:12:ILE:HG23	1:Cd:75:LEU:CD1	2.45	0.47
1:Jc:88:VAL:HG21	1:Mc:25:ASP:HA	1.96	0.47
1:Ew:25:ASP:HA	1:Fw:88:VAL:HG21	1.97	0.47
2:Pk:53:VAL:HB	2:Pk:74:ILE:HD13	1.97	0.47
1:Bq:47:THR:CG2	1:Ip:18:VAL:CG2	2.91	0.47
1:Cs:12:ILE:HG23	1:Cs:75:LEU:CD1	2.45	0.47
1:Jp:88:VAL:HG21	1:Mp:25:ASP:HA	1.96	0.47
1:Jq:65:ALA:HB1	3:XD:626:LEU:HD23	1.97	0.47
1:Jr:88:VAL:HG21	1:Mr:25:ASP:HA	1.96	0.47
1:Kr:58:ASN:OD1	3:Yq:802:VAL:HG13	2.15	0.47
1:D4:54:THR:HA	1:D4:57:VAL:HG22	1.96	0.47
1:DY:13:GLU:HA	1:DY:47:THR:HA	1.97	0.47
1:L3:79:HIS:HA	3:X3:639:SER:O	2.15	0.47
1:BA:91:ILE:HD11	1:IE:21:ILE:HD13	1.96	0.46
1:CB:12:ILE:HG23	1:CB:75:LEU:CD1	2.45	0.46
1:EA:11:MET:HB3	1:D8:18:VAL:HG22	1.97	0.46
1:MD:82:ALA:HB3	1:Mq:30:ALA:O	2.15	0.46
1:C3:14:THR:HB	1:C3:19:PRO:HB2	1.97	0.46
1:C5:72:GLY:HA2	1:H4:77:ALA:HB2	1.97	0.46
1:J1:88:VAL:HG21	1:M1:25:ASP:HA	1.96	0.46
1:C0:12:ILE:HG23	1:C0:75:LEU:CD1	2.45	0.46
1:K8:58:ASN:OD1	3:Y7:802:VAL:HG13	2.15	0.46
2:P6:1:MET:HE1	2:P0:39:VAL:HG23	1.97	0.46
1:CP:18:VAL:HG22	1:HT:11:MET:CB	2.43	0.46
2:PP:42:ILE:HD12	2:PT:14:ASN:O	2.15	0.46
2:PQ:16:ILE:HD11	2:PQ:68:PRO:HG3	1.97	0.46
1:CK:72:GLY:HA2	1:HJ:77:ALA:HB2	1.97	0.46
1:CK:79:HIS:HD2	3:YI:862:THR:OG1	1.98	0.46
1:JH:88:VAL:HG21	1:MH:25:ASP:HA	1.96	0.46
1:BO:47:THR:CG2	1:IN:18:VAL:CG2	2.91	0.46
1:DL:55:GLY:O	3:Xx:643:TYR:HE2	1.98	0.46
1:OM:80:ILE:O	3:XM:716:PRO:HD3	2.15	0.46
3:Xe:643:TYR:HE1	1:DV:58:ASN:HB3	1.80	0.46
3:Xg:645:GLY:O	3:Xg:649:THR:HG22	2.15	0.46
1:CV:12:ILE:HG23	1:CV:75:LEU:CD1	2.45	0.46
1:CZ:72:GLY:HA2	1:HY:77:ALA:HB2	1.97	0.46
1:EX:25:ASP:HA	1:FX:88:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GW:25:ASP:HA	1:IW:88:VAL:HG21	1.97	0.46
1:JX:88:VAL:HG21	1:MX:25:ASP:HA	1.96	0.46
1:KX:58:ASN:OD1	3:YW:802:VAL:HG13	2.15	0.46
1:FU:88:VAL:O	1:FU:91:ILE:HG12	2.15	0.46
1:Ka:58:ASN:OD1	3:YU:802:VAL:HG13	2.15	0.46
3:Yb:724:ILE:HD12	3:Yb:725:THR:H	1.79	0.46
1:Cx:12:ILE:HG23	1:Cx:75:LEU:CD1	2.45	0.46
1:Ev:85:HIS:CB	1:D7:28:THR:HB	2.44	0.46
2:Pt:42:ILE:HD12	2:Px:14:ASN:O	2.15	0.46
2:Pw:4:MET:HE3	2:Pw:29:GLU:HG3	1.96	0.46
1:Bk:36:VAL:HG11	1:Bk:51:ARG:CG	2.44	0.46
1:Cj:79:HIS:HD2	3:Yr:862:THR:OG1	1.98	0.46
1:Cr:12:ILE:HG23	1:Cr:75:LEU:CD1	2.45	0.46
1:Es:25:ASP:HA	1:Fs:88:VAL:HG21	1.97	0.46
2:Ps:39:VAL:HG21	2:Ps:67:TYR:HE2	1.80	0.46
1:EC:88:VAL:HG21	1:Dq:25:ASP:CG	2.40	0.46
1:JB:88:VAL:HG21	1:MB:25:ASP:HA	1.96	0.46
1:JE:88:VAL:HG21	1:ME:25:ASP:HA	1.96	0.46
1:KE:35:LEU:HD12	1:KE:50:VAL:HG12	1.98	0.46
2:PB:16:ILE:HD11	2:PB:68:PRO:HG3	1.97	0.46
3:XC:645:GLY:O	3:XC:649:THR:HG22	2.15	0.46
1:C2:12:ILE:HG23	1:C2:75:LEU:CD1	2.45	0.46
1:J2:45:TYR:CE1	3:X2:694:PRO:HG3	2.49	0.46
1:J5:7:ILE:HG12	1:L0:32:GLU:OE1	2.16	0.46
1:M3:72:GLY:CA	1:J3:77:ALA:HB2	2.28	0.46
1:B6:36:VAL:HG11	1:B6:51:ARG:CG	2.44	0.46
1:D0:58:ASN:CG	3:XR:621:VAL:HG21	2.41	0.46
1:E6:87:GLU:OE1	1:DM:28:THR:HG21	2.15	0.46
1:CR:12:ILE:HG23	1:CR:75:LEU:CD1	2.45	0.46
1:LS:65:ALA:HB3	3:XS:636:GLN:NE2	2.17	0.46
2:PR:42:ILE:HD12	3:YP:851:SER:HB3	1.96	0.46
1:JK:7:ILE:HG12	1:LF:32:GLU:OE1	2.16	0.46
1:BN:36:VAL:HG11	1:BN:51:ARG:CG	2.44	0.46
1:BN:41:VAL:HG13	1:IM:40:PHE:CD1	2.50	0.46
1:DL:28:THR:CG2	1:Ew:85:HIS:CE1	2.98	0.46
1:JO:88:VAL:HG21	1:MO:25:ASP:HA	1.96	0.46
1:KF:35:LEU:HD12	1:KF:50:VAL:HG12	1.98	0.46
2:PL:42:ILE:HD12	2:PF:14:ASN:O	2.15	0.46
1:Ef:25:ASP:HA	1:Ff:88:VAL:HG21	1.97	0.46
1:Eg:25:ASP:HA	1:Fg:88:VAL:HG21	1.97	0.46
1:Fe:79:HIS:HA	3:Xe:725:THR:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hh:62:ARG:HG3	3:Yf:848:ILE:CD1	2.24	0.46
1:Jg:88:VAL:HG21	1:Mg:25:ASP:HA	1.96	0.46
1:OW:27:MET:HE3	1:OW:61:VAL:HG22	1.96	0.46
1:Bd:83:ARG:NH1	1:Ec:28:THR:O	2.43	0.46
1:Ca:12:ILE:HG23	1:Ca:75:LEU:CD1	2.45	0.46
1:Cc:12:ILE:HG23	1:Cc:75:LEU:CD1	2.45	0.46
1:Fc:79:HIS:HA	3:Xc:725:THR:O	2.15	0.46
2:Pd:39:VAL:HG21	2:Pd:67:TYR:HE2	1.80	0.46
1:Ct:12:ILE:HG23	1:Ct:75:LEU:CD1	2.45	0.46
1:Ct:14:THR:HB	1:Ct:19:PRO:HB2	1.96	0.46
1:Cv:12:ILE:HG23	1:Cv:75:LEU:CD1	2.45	0.46
1:Dx:35:LEU:HD23	1:Ek:91:ILE:CG2	2.46	0.46
1:Fv:71:VAL:HG22	3:X8:617:SER:HB3	1.96	0.46
1:Hu:62:ARG:HG2	3:Yx:848:ILE:HD11	1.81	0.46
2:Pv:14:ASN:ND2	2:Pw:76:ILE:HD12	2.31	0.46
1:Oj:27:MET:HE3	1:Oj:61:VAL:HG22	1.96	0.46
1:Df:33:VAL:HG11	1:Df:57:VAL:HA	1.98	0.46
1:Lm:27:MET:HG2	1:Lm:60:ALA:O	2.15	0.46
1:BA:61:VAL:HG12	3:YE:724:ILE:HD13	1.97	0.46
1:BD:66:ASP:OD2	3:YC:719:LEU:HB2	2.16	0.46
1:CE:30:ALA:HA	2:PD:23:PRO:HB3	1.96	0.46
1:DE:35:LEU:HD23	1:E1:91:ILE:CG2	2.46	0.46
1:DE:72:GLY:CA	1:E1:77:ALA:HB2	2.45	0.46
1:KA:35:LEU:HD12	1:KA:50:VAL:HG12	1.98	0.46
2:PD:10:LEU:HD13	2:PD:37:VAL:HG21	1.97	0.46
2:PD:39:VAL:HG21	2:PD:67:TYR:HE1	1.81	0.46
1:C4:12:ILE:HG23	1:C4:75:LEU:CD1	2.45	0.46
1:J4:88:VAL:HG21	1:M4:25:ASP:HA	1.96	0.46
1:K2:35:LEU:HD12	1:K2:50:VAL:HG12	1.98	0.46
1:K3:58:ASN:OD1	3:Y2:802:VAL:HG13	2.15	0.46
1:N5:71:VAL:HG22	3:X5:639:SER:HB3	1.98	0.46
1:C6:12:ILE:HG23	1:C6:75:LEU:CD1	2.45	0.46
1:C7:12:ILE:HG23	1:C7:75:LEU:CD1	2.45	0.46
1:C9:12:ILE:HG23	1:C9:75:LEU:CD1	2.45	0.46
1:E7:41:VAL:HG13	1:Dv:40:PHE:CD1	2.50	0.46
1:L7:54:THR:HB	1:DM:55:GLY:O	2.15	0.46
1:BT:91:ILE:HD12	1:IS:21:ILE:CD1	2.44	0.46
1:CQ:14:THR:HB	1:CQ:19:PRO:HB2	1.97	0.46
1:CS:12:ILE:HG23	1:CS:75:LEU:CD1	2.45	0.46
1:CT:72:GLY:HA2	1:HS:77:ALA:HB2	1.97	0.46
1:OP:27:MET:HE3	1:OP:61:VAL:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PS:28:TRP:CD2	2:PS:31:PRO:HA	2.50	0.46
3:XQ:691:ILE:HD12	3:XQ:691:ILE:O	2.15	0.46
1:BG:91:ILE:HD11	1:IK:21:ILE:HD13	1.96	0.46
1:FH:25:ASP:HA	1:DH:88:VAL:HG21	1.97	0.46
1:JK:88:VAL:HG21	1:MK:25:ASP:HA	1.96	0.46
1:CM:12:ILE:HG23	1:CM:75:LEU:CD1	2.45	0.46
1:FN:79:HIS:HA	3:XN:725:THR:O	2.16	0.46
1:JM:88:VAL:HG21	1:MM:25:ASP:HA	1.96	0.46
1:KL:58:ASN:OD1	3:YF:802:VAL:HG13	2.15	0.46
1:Ke:58:ASN:OD1	3:Yi:802:VAL:HG13	2.15	0.46
1:Kf:35:LEU:HD12	1:Kf:50:VAL:HG12	1.98	0.46
1:Ki:35:LEU:HD12	1:Ki:50:VAL:HG12	1.98	0.46
2:Pg:14:ASN:ND2	2:Ph:76:ILE:HD12	2.31	0.46
1:Bc:41:VAL:HG13	1:Ib:40:PHE:CD1	2.50	0.46
1:Ea:25:ASP:HA	1:Fa:88:VAL:HG21	1.97	0.46
1:Eb:25:ASP:HA	1:Fb:88:VAL:HG21	1.97	0.46
1:Bt:91:ILE:HD11	1:Ix:21:ILE:HD13	1.96	0.46
1:Bv:41:VAL:HG13	1:Iu:40:PHE:CD1	2.50	0.46
1:Fm:88:VAL:HG21	1:Em:25:ASP:HA	1.97	0.46
1:Kl:35:LEU:HD12	1:Kl:50:VAL:HG12	1.98	0.46
1:Ko:35:LEU:HD12	1:Ko:50:VAL:HG12	1.98	0.46
1:Ep:25:ASP:HA	1:Fp:88:VAL:HG21	1.97	0.46
1:Gr:12:ILE:HG23	1:Gr:75:LEU:HD12	1.95	0.46
3:X7:616:ILE:HG23	1:DM:80:ILE:HD11	1.98	0.46
1:Db:13:GLU:HG2	1:Db:47:THR:HB	1.97	0.46
1:Db:72:GLY:CA	1:E3:77:ALA:HB2	2.45	0.46
1:Em:85:HIS:CE1	1:DJ:28:THR:CG2	2.99	0.46
1:OI:27:MET:HE3	1:OI:61:VAL:HG22	1.96	0.46
1:DE:28:THR:CG2	1:E1:87:GLU:OE1	2.64	0.46
1:FA:79:HIS:HA	3:XA:725:THR:O	2.15	0.46
3:XB:691:ILE:HD12	3:XB:691:ILE:O	2.15	0.46
1:O9:27:MET:HE3	1:O9:61:VAL:HG22	1.96	0.46
1:CP:12:ILE:HG23	1:CP:75:LEU:CD1	2.45	0.46
1:ER:11:MET:HB3	1:D4:18:VAL:CG2	2.44	0.46
1:CG:12:ILE:HG23	1:CG:75:LEU:CD1	2.45	0.46
1:KG:35:LEU:HD12	1:KG:50:VAL:HG12	1.98	0.46
1:KK:35:LEU:HD12	1:KK:50:VAL:HG12	1.98	0.46
1:BO:91:ILE:HD12	1:IN:21:ILE:CD1	2.45	0.46
1:CF:12:ILE:HG23	1:CF:75:LEU:CD1	2.45	0.46
1:HN:62:ARG:HG3	3:YL:848:ILE:CD1	2.28	0.46
1:JM:79:HIS:HD2	3:X7:628:THR:OG1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:30:ALA:O	1:Gf:82:ALA:HB3	2.14	0.46
1:Af:35:LEU:HD21	1:Cf:91:ILE:HD13	1.98	0.46
1:Be:41:VAL:HG13	1:Ii:40:PHE:HD1	1.80	0.46
1:Cf:14:THR:HB	1:Cf:19:PRO:HB2	1.96	0.46
1:Ci:14:THR:HB	1:Ci:19:PRO:HB2	1.97	0.46
1:De:72:GLY:HA2	1:Ec:77:ALA:HB2	1.97	0.46
1:Di:35:LEU:HD23	1:EV:91:ILE:CG2	2.46	0.46
2:Pf:59:ARG:NH2	2:Pg:57:ALA:HA	2.31	0.46
3:Xi:616:ILE:HG22	1:Dp:80:ILE:HD12	1.97	0.46
1:BW:47:THR:CG2	1:IV:18:VAL:CG2	2.91	0.46
1:BY:66:ASP:OD1	3:YX:720:ALA:HB2	2.14	0.46
1:CY:12:ILE:HG23	1:CY:75:LEU:CD1	2.45	0.46
1:CZ:14:THR:HB	1:CZ:19:PRO:HB2	1.97	0.46
1:EW:77:ALA:CB	1:Dj:18:VAL:HG11	2.45	0.46
1:JX:62:ARG:HH21	3:Xo:624:SER:CB	2.26	0.46
1:Ba:41:VAL:HG13	1:IU:40:PHE:HD1	1.80	0.46
1:Cd:14:THR:HB	1:Cd:19:PRO:HB2	1.97	0.46
1:Fb:25:ASP:HA	1:Db:88:VAL:HG21	1.98	0.46
1:Cu:14:THR:HB	1:Cu:19:PRO:HB2	1.96	0.46
1:Cx:72:GLY:HA2	1:Hw:77:ALA:HB2	1.97	0.46
1:Ft:79:HIS:HA	3:Xt:725:THR:O	2.15	0.46
1:Kk:58:ASN:OD1	3:Yo:802:VAL:HG13	2.15	0.46
2:Pm:14:ASN:ND2	2:Pn:76:ILE:HD12	2.31	0.46
1:Cq:12:ILE:HG23	1:Cq:75:LEU:CD1	2.45	0.46
1:Kp:58:ASN:OD1	3:Yj:802:VAL:HG13	2.15	0.46
3:XD:691:ILE:HD12	3:XD:691:ILE:O	2.15	0.46
3:Xq:643:TYR:HE1	1:Dh:59:ALA:H	1.64	0.46
1:CA:12:ILE:HG23	1:CA:75:LEU:CD1	2.45	0.46
1:DA:72:GLY:HA2	1:E8:77:ALA:HB2	1.97	0.46
1:KA:58:ASN:OD1	3:YE:802:VAL:HG13	2.15	0.46
3:XE:627:VAL:HG11	1:Jg:80:ILE:HD11	1.82	0.46
1:B4:91:ILE:HD12	1:I3:21:ILE:CD1	2.45	0.46
1:C1:12:ILE:HG23	1:C1:75:LEU:CD1	2.45	0.46
1:A8:69:GLU:O	3:Y6:841:PRO:CG	2.37	0.46
1:C0:14:THR:HB	1:C0:19:PRO:HB2	1.97	0.46
1:O6:27:MET:HE3	1:O6:61:VAL:HG22	1.96	0.46
1:BQ:47:THR:CG2	1:IP:18:VAL:CG2	2.91	0.46
1:HP:62:ARG:HG2	3:YS:848:ILE:HD11	1.83	0.46
1:JP:61:VAL:HG12	3:XO:627:VAL:HG12	1.98	0.46
3:XT:691:ILE:HD12	3:XT:691:ILE:O	2.15	0.46
1:BJ:61:VAL:HG12	3:YI:724:ILE:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CO:12:ILE:HG23	1:CO:75:LEU:CD1	2.45	0.46
1:FN:68:CYS:SG	1:FN:75:LEU:HD13	2.56	0.46
3:XL:643:TYR:CZ	1:Dl:58:ASN:HB3	2.49	0.46
2:Pg:53:VAL:HG22	2:Pg:54:GLY:H	1.79	0.46
3:Xf:691:ILE:HD12	3:Xf:691:ILE:O	2.15	0.46
1:BW:11:MET:HB3	1:IV:18:VAL:CG2	2.45	0.46
1:BX:41:VAL:HG13	1:IW:40:PHE:CD1	2.50	0.46
1:CU:14:THR:HB	1:CU:19:PRO:HB2	1.97	0.46
1:Cb:12:ILE:HG23	1:Cb:75:LEU:CD1	2.45	0.46
1:KU:35:LEU:HD12	1:KU:50:VAL:HG12	1.98	0.46
1:Ka:35:LEU:HD12	1:Ka:50:VAL:HG12	1.98	0.46
2:Pa:14:ASN:ND2	2:Pb:76:ILE:HD12	2.31	0.46
1:Bu:47:THR:CG2	1:It:18:VAL:CG2	2.91	0.46
1:Cx:79:HIS:HD2	3:Yv:862:THR:OG1	1.98	0.46
1:Ev:25:ASP:HA	1:Fv:88:VAL:HG21	1.97	0.46
1:Gu:72:GLY:HA2	1:Iu:77:ALA:HB2	1.96	0.46
1:Kv:35:LEU:HD12	1:Kv:50:VAL:HG12	1.98	0.46
3:Xu:691:ILE:O	3:Xu:691:ILE:HD12	2.15	0.46
1:Al:35:LEU:HD21	1:Cl:91:ILE:HD13	1.98	0.46
1:Co:14:THR:HB	1:Co:19:PRO:HB2	1.96	0.46
1:Bj:61:VAL:HG12	3:Ys:724:ILE:HD11	1.97	0.46
1:Bp:91:ILE:HD12	1:Ij:21:ILE:HD13	1.98	0.46
1:Bs:91:ILE:HD12	1:Ir:21:ILE:CD1	2.45	0.46
1:Cp:14:THR:HB	1:Cp:19:PRO:HB2	1.96	0.46
1:Hr:55:GLY:HA2	2:Pq:13:THR:HG21	1.96	0.46
1:Lr:80:ILE:HD12	3:Xr:638:ILE:HG21	1.97	0.46
2:Pp:1:MET:HE1	2:Pj:39:VAL:HG23	1.97	0.46
1:J6:79:HIS:CB	3:XN:628:THR:HG23	2.42	0.46
3:Xq:643:TYR:HD1	3:Xq:643:TYR:HA	1.72	0.46
1:Em:85:HIS:CE1	1:DJ:28:THR:HG22	2.50	0.46
1:DH:78:ALA:HB1	3:Xa:616:ILE:HD12	1.98	0.46
1:DH:80:ILE:HD11	3:Xa:616:ILE:HG21	1.96	0.46
1:CA:14:THR:HB	1:CA:19:PRO:HB2	1.96	0.46
1:EE:25:ASP:HA	1:FE:88:VAL:HG21	1.97	0.46
1:FD:18:VAL:CG2	1:DD:13:GLU:HB2	2.45	0.46
2:PD:4:MET:HE3	2:PD:29:GLU:HG3	1.96	0.46
1:C5:79:HIS:HD2	3:Y3:862:THR:OG1	1.98	0.46
1:D3:28:THR:HG21	1:Eb:87:GLU:OE1	2.16	0.46
1:F3:24:ALA:HB2	1:F3:48:VAL:HG11	1.98	0.46
1:A9:35:LEU:HD21	1:C9:91:ILE:HD13	1.98	0.46
1:H6:80:ILE:HD12	3:Y9:848:ILE:HG21	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H7:62:ARG:HG2	3:Y0:848:ILE:HD11	1.81	0.46
1:J7:32:GLU:OE1	1:D7:7:ILE:HG12	2.15	0.46
1:AP:35:LEU:HD21	1:CP:91:ILE:HD13	1.98	0.46
1:EP:11:MET:HB3	1:DN:18:VAL:HG22	1.97	0.46
1:ET:25:ASP:HA	1:FT:88:VAL:HG21	1.97	0.46
1:CJ:12:ILE:HG23	1:CJ:75:LEU:CD1	2.45	0.46
1:EJ:25:ASP:HA	1:FJ:88:VAL:HG21	1.97	0.46
1:EK:25:ASP:HA	1:FK:88:VAL:HG21	1.97	0.46
2:PG:14:ASN:ND2	2:PH:76:ILE:HD12	2.31	0.46
1:BM:91:ILE:HD12	1:IL:21:ILE:CD1	2.46	0.46
1:CO:73:ASP:OD2	1:HN:45:TYR:OH	2.24	0.46
1:JL:7:ILE:HD11	1:Lx:32:GLU:HB2	1.98	0.46
2:PN:14:ASN:ND2	2:PO:76:ILE:HD12	2.31	0.46
1:Di:28:THR:CG2	1:EV:85:HIS:CE1	2.98	0.46
1:Ei:25:ASP:HA	1:Fi:88:VAL:HG21	1.97	0.46
1:Jf:79:HIS:HA	3:X3:628:THR:O	2.15	0.46
1:Ke:35:LEU:HD12	1:Ke:50:VAL:HG12	1.98	0.46
1:Kg:35:LEU:HD12	1:Kg:50:VAL:HG12	1.98	0.46
1:AW:30:ALA:O	1:GW:82:ALA:HB3	2.14	0.46
1:BY:61:VAL:HG12	3:YX:724:ILE:HD13	1.97	0.46
1:DX:28:THR:CG2	1:En:85:HIS:CE1	2.99	0.46
1:JW:45:TYR:CE1	3:XW:694:PRO:HG3	2.49	0.46
1:JZ:7:ILE:HG12	1:LU:32:GLU:OE1	2.16	0.46
1:KV:35:LEU:HD12	1:KV:50:VAL:HG12	1.98	0.46
2:PV:53:VAL:HB	2:PV:74:ILE:HD13	1.97	0.46
1:Bd:11:MET:HB3	1:Ic:18:VAL:CG2	2.45	0.46
1:Od:27:MET:HE3	1:Od:61:VAL:HG22	1.96	0.46
1:Au:35:LEU:HD21	1:Cu:91:ILE:HD13	1.98	0.46
1:Dx:28:THR:CG2	1:Ek:85:HIS:CE1	2.98	0.46
1:Gu:25:ASP:HA	1:Iu:88:VAL:HG21	1.97	0.46
1:Ku:35:LEU:HD12	1:Ku:50:VAL:HG12	1.98	0.46
1:Ot:27:MET:HE3	1:Ot:61:VAL:HG22	1.96	0.46
2:Pt:1:MET:HE1	2:Px:39:VAL:HG23	1.97	0.46
2:Pt:14:ASN:ND2	2:Pu:76:ILE:HD12	2.31	0.46
2:Pu:16:ILE:HD11	2:Pu:68:PRO:HG3	1.97	0.46
2:Pu:59:ARG:NH2	2:Pv:57:ALA:HA	2.31	0.46
1:Al:30:ALA:O	1:Gl:82:ALA:HB3	2.14	0.46
1:Bo:80:ILE:CD1	3:Yn:724:ILE:HD11	2.44	0.46
1:Cl:14:THR:HB	1:Cl:19:PRO:HB2	1.96	0.46
1:Jo:7:ILE:HG12	1:Lj:32:GLU:OE1	2.16	0.46
1:Ol:27:MET:HE3	1:Ol:61:VAL:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Br:41:VAL:HG13	1:Iq:40:PHE:CD1	2.50	0.46
1:Cj:14:THR:HB	1:Cj:19:PRO:HB2	1.97	0.46
1:Cj:72:GLY:HA2	1:Hs:77:ALA:HB2	1.97	0.46
1:Cr:14:THR:HB	1:Cr:19:PRO:HB2	1.96	0.46
1:D4:58:ASN:HB3	3:XS:643:TYR:CE1	2.50	0.46
1:FF:68:CYS:SG	1:FF:75:LEU:HB2	2.55	0.46
3:Xm:691:ILE:HG12	1:Lm:45:TYR:CE2	2.50	0.46
1:AD:35:LEU:HD21	1:CD:91:ILE:HD13	1.98	0.46
1:FE:68:CYS:SG	1:FE:75:LEU:HD13	2.56	0.46
1:A3:35:LEU:HD21	1:C3:91:ILE:HD13	1.98	0.46
1:F5:24:ALA:HB2	1:F5:48:VAL:HG11	1.98	0.46
2:P1:14:ASN:ND2	2:P2:76:ILE:HD12	2.31	0.46
2:P3:14:ASN:ND2	2:P4:76:ILE:HD12	2.31	0.46
1:E8:25:ASP:HA	1:F8:88:VAL:HG21	1.97	0.46
1:EP:25:ASP:HA	1:FP:88:VAL:HG21	1.97	0.46
1:EQ:25:ASP:HA	1:FQ:88:VAL:HG21	1.97	0.46
3:XR:645:GLY:O	3:XR:649:THR:HG22	2.15	0.46
1:AJ:35:LEU:HD21	1:CJ:91:ILE:HD13	1.98	0.46
1:BI:41:VAL:HG13	1:IH:40:PHE:CD1	2.50	0.46
1:BI:66:ASP:OD2	3:YH:719:LEU:HB3	2.16	0.46
1:FJ:68:CYS:SG	1:FJ:75:LEU:HD13	2.56	0.46
1:FK:68:CYS:SG	1:FK:75:LEU:HD13	2.56	0.46
1:JH:65:ALA:HB1	3:Xa:626:LEU:HD22	1.96	0.46
1:AL:35:LEU:HD21	1:CL:91:ILE:HD13	1.98	0.46
1:FN:24:ALA:HB2	1:FN:48:VAL:HG11	1.98	0.46
1:JO:28:THR:HG21	1:OO:87:GLU:CB	2.46	0.46
1:Be:61:VAL:HG12	3:Yi:724:ILE:HD13	1.97	0.46
1:Bg:79:HIS:HA	3:Yf:725:THR:O	2.16	0.46
2:Pe:14:ASN:ND2	2:Pf:76:ILE:HD12	2.31	0.46
3:Xg:691:ILE:O	3:Xg:691:ILE:HD12	2.15	0.46
3:Xi:630:ASN:ND2	1:Jp:58:ASN:OD1	2.43	0.46
1:CW:14:THR:HB	1:CW:19:PRO:HB2	1.97	0.46
1:FZ:68:CYS:SG	1:FZ:75:LEU:HD13	2.56	0.46
1:Ed:25:ASP:HA	1:Fd:88:VAL:HG21	1.97	0.46
1:Ja:88:VAL:HG21	1:Ma:25:ASP:HA	1.96	0.46
1:Au:30:ALA:O	1:Gu:82:ALA:HB3	2.14	0.46
1:Et:25:ASP:HA	1:Ft:88:VAL:HG21	1.97	0.46
1:Ev:85:HIS:CG	1:D7:28:THR:HB	2.51	0.46
1:Ev:92:LEU:CD2	1:D7:21:ILE:CD1	2.83	0.46
1:Fw:68:CYS:SG	1:Fw:75:LEU:HD13	2.56	0.46
1:Jw:7:ILE:HG12	1:LM:32:GLU:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kv:58:ASN:OD1	3:Yu:802:VAL:HG13	2.15	0.46
1:Lw:83:ARG:NH1	1:D7:31:ALA:O	2.49	0.46
1:An:35:LEU:HD21	1:Cn:91:ILE:HD13	1.98	0.46
1:Bk:41:VAL:HG13	1:Io:40:PHE:HD1	1.80	0.46
1:Fk:24:ALA:HB2	1:Fk:48:VAL:HG11	1.98	0.46
1:Fo:68:CYS:SG	1:Fo:75:LEU:HD13	2.56	0.46
1:Jn:62:ARG:NH2	3:XY:624:SER:HA	2.30	0.46
2:Pk:14:ASN:ND2	2:Pl:76:ILE:HD12	2.31	0.46
1:Fr:68:CYS:SG	1:Fr:75:LEU:HD13	2.56	0.46
1:Fs:68:CYS:SG	1:Fs:75:LEU:HD13	2.56	0.46
3:Yj:734:ALA:O	3:Yj:735:ARG:C	2.57	0.46
1:DD:33:VAL:HG13	1:DD:56:ALA:HB1	1.97	0.46
1:J6:58:ASN:OD1	3:XN:630:ASN:HB3	2.15	0.46
1:EI:36:VAL:HA	1:EI:96:PRO:HD3	1.97	0.46
3:Xw:691:ILE:HD12	3:Xw:691:ILE:O	2.15	0.46
1:FL:24:ALA:HB2	1:FL:48:VAL:HG11	1.98	0.46
1:FL:68:CYS:SG	1:FL:75:LEU:HD13	2.56	0.46
3:XX:626:LEU:H	3:XX:626:LEU:HD12	1.80	0.46
1:Km:35:LEU:HD12	1:Km:50:VAL:HG12	1.98	0.46
1:Dl:89:GLU:HB3	1:Dl:94:LYS:HD3	1.97	0.46
3:Xm:638:ILE:H	3:Xm:638:ILE:HG13	1.62	0.46
1:EF:9:LEU:HD22	1:EF:92:LEU:HD11	1.98	0.46
1:BC:41:VAL:HG13	1:IB:40:PHE:CD1	2.50	0.46
1:CD:12:ILE:HG23	1:CD:75:LEU:CD1	2.45	0.46
1:FD:68:CYS:SG	1:FD:75:LEU:HD13	2.56	0.46
2:PA:14:ASN:ND2	2:PB:76:ILE:HD12	2.31	0.46
1:A4:35:LEU:HD21	1:C4:91:ILE:HD13	1.98	0.46
1:F3:68:CYS:SG	1:F3:75:LEU:HD13	2.56	0.46
1:H3:55:GLY:HA2	2:P2:13:THR:HG21	1.96	0.46
1:J1:28:THR:HG21	1:O1:87:GLU:CB	2.46	0.46
1:L4:30:ALA:O	1:Jb:82:ALA:HB3	2.16	0.46
1:E0:25:ASP:HA	1:F0:88:VAL:HG21	1.97	0.46
1:J0:28:THR:HG21	1:O0:87:GLU:CB	2.46	0.46
1:K0:35:LEU:HD12	1:K0:50:VAL:HG12	1.98	0.46
2:P6:14:ASN:ND2	2:P7:76:ILE:HD12	2.31	0.46
1:AS:35:LEU:HD21	1:CS:91:ILE:HD13	1.98	0.46
1:DT:35:LEU:HD23	1:EG:91:ILE:CG2	2.46	0.46
1:OR:27:MET:HE3	1:OR:61:VAL:HG22	1.96	0.46
1:BJ:91:ILE:HD12	1:II:21:ILE:CD1	2.45	0.46
1:CG:14:THR:HB	1:CG:19:PRO:HB2	1.97	0.46
1:GI:94:LYS:HD2	1:GI:94:LYS:HA	1.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:35:LEU:HD21	1:CM:91:ILE:HD13	1.98	0.46
1:BF:91:ILE:HD12	1:IO:21:ILE:CD1	2.44	0.46
1:Fe:68:CYS:SG	1:Fe:75:LEU:HD13	2.56	0.46
1:Ff:68:CYS:SG	1:Ff:75:LEU:HD13	2.56	0.46
1:Fi:24:ALA:HB2	1:Fi:48:VAL:HG11	1.98	0.46
1:Jg:28:THR:HG21	1:Og:87:GLU:CB	2.46	0.46
1:Of:27:MET:HE3	1:Of:61:VAL:HG22	1.96	0.46
1:FV:68:CYS:SG	1:FV:75:LEU:HD13	2.56	0.46
1:KY:35:LEU:HD12	1:KY:50:VAL:HG12	1.98	0.46
1:LX:79:HIS:HA	3:XX:639:SER:O	2.15	0.46
2:PX:14:ASN:ND2	2:PY:76:ILE:HD12	2.31	0.46
1:Bb:91:ILE:HD12	1:Ia:21:ILE:CD1	2.46	0.46
1:Bd:91:ILE:HD12	1:Ic:21:ILE:CD1	2.45	0.46
1:Fb:68:CYS:SG	1:Fb:75:LEU:HD13	2.56	0.46
1:Ax:35:LEU:HD21	1:Cx:91:ILE:HD13	1.98	0.46
1:Bv:79:HIS:HA	3:Yu:725:THR:O	2.16	0.46
1:Bw:91:ILE:HD12	1:Iv:21:ILE:CD1	2.46	0.46
1:Cu:12:ILE:HG23	1:Cu:75:LEU:CD1	2.45	0.46
1:Cw:12:ILE:HG23	1:Cw:75:LEU:CD1	2.45	0.46
1:Dx:28:THR:CG2	1:Ek:87:GLU:OE1	2.64	0.46
1:Co:12:ILE:HG23	1:Co:75:LEU:CD1	2.45	0.46
1:Eo:25:ASP:HA	1:Fo:88:VAL:HG21	1.97	0.46
1:Fk:68:CYS:SG	1:Fk:75:LEU:HD13	2.56	0.46
1:Fn:68:CYS:SG	1:Fn:75:LEU:HD13	2.56	0.46
1:Kk:35:LEU:HD12	1:Kk:50:VAL:HG12	1.98	0.46
1:Fr:79:HIS:HA	3:Xr:725:THR:O	2.15	0.46
1:Kq:35:LEU:HD12	1:Kq:50:VAL:HG12	1.98	0.46
1:Ks:35:LEU:HD12	1:Ks:50:VAL:HG12	1.98	0.46
3:Xj:691:ILE:H	3:Xj:691:ILE:HG13	1.45	0.46
1:EL:33:VAL:HB	1:EL:50:VAL:HB	1.96	0.46
1:Om:87:GLU:CB	1:Jm:28:THR:HG21	2.46	0.46
1:MF:36:VAL:HB	1:MF:51:ARG:HG2	1.98	0.46
1:AE:35:LEU:HD21	1:CE:91:ILE:HD13	1.98	0.46
1:ED:25:ASP:HA	1:FD:88:VAL:HG21	1.97	0.46
1:D5:28:THR:CG2	1:E9:87:GLU:OE1	2.64	0.46
1:E1:25:ASP:HA	1:F1:88:VAL:HG21	1.97	0.46
1:F2:24:ALA:HB2	1:F2:48:VAL:HG11	1.98	0.46
1:F4:28:THR:HG23	1:D4:87:GLU:CG	2.11	0.46
1:F5:68:CYS:SG	1:F5:75:LEU:HD13	2.56	0.46
1:A6:35:LEU:HD21	1:C6:91:ILE:HD13	1.98	0.46
1:A7:35:LEU:HD21	1:C7:91:ILE:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E9:25:ASP:HA	1:F9:88:VAL:HG21	1.97	0.46
1:M7:83:ARG:HD2	1:MM:31:ALA:O	2.16	0.46
1:AR:35:LEU:HD21	1:CR:91:ILE:HD13	1.98	0.46
1:BS:66:ASP:OD2	3:YR:719:LEU:HB2	2.16	0.46
1:ES:91:ILE:CG2	1:Da:35:LEU:HD23	2.45	0.46
1:GQ:25:ASP:HA	1:IQ:88:VAL:HG21	1.97	0.46
1:JQ:28:THR:HG21	1:OQ:87:GLU:CB	2.46	0.46
1:KQ:35:LEU:HD12	1:KQ:50:VAL:HG12	1.98	0.46
2:PR:14:ASN:ND2	2:PS:76:ILE:HD12	2.31	0.46
1:AK:35:LEU:HD21	1:CK:91:ILE:HD13	1.98	0.46
1:BJ:79:HIS:HA	3:YI:725:THR:O	2.16	0.46
1:CH:14:THR:HB	1:CH:19:PRO:HB2	1.96	0.46
1:EG:25:ASP:HA	1:FG:88:VAL:HG21	1.97	0.46
1:KG:58:ASN:OD1	3:YK:802:VAL:HG13	2.15	0.46
1:EO:25:ASP:HA	1:FO:88:VAL:HG21	1.97	0.46
2:PL:14:ASN:ND2	2:PM:76:ILE:HD12	2.31	0.46
1:Ah:35:LEU:HD21	1:Ch:91:ILE:HD13	1.98	0.46
1:Ci:12:ILE:HG23	1:Ci:75:LEU:CD1	2.45	0.46
1:Ff:24:ALA:HB2	1:Ff:48:VAL:HG11	1.98	0.46
3:Xi:627:VAL:HG13	1:Jp:80:ILE:CD1	2.33	0.46
1:CX:14:THR:HB	1:CX:19:PRO:HB2	1.97	0.46
1:DW:80:ILE:HD11	3:Xp:616:ILE:HG21	1.98	0.46
1:FW:68:CYS:SG	1:FW:75:LEU:HD13	2.56	0.46
1:Ad:35:LEU:HD21	1:Cd:91:ILE:HD13	1.98	0.46
1:Ca:73:ASP:OD2	1:HU:45:TYR:OH	2.20	0.46
1:Fd:68:CYS:SG	1:Fd:75:LEU:HD13	2.56	0.46
1:Jd:28:THR:HG21	1:Od:87:GLU:CB	2.46	0.46
1:OU:87:GLU:CB	1:JU:28:THR:HG21	2.46	0.46
1:At:35:LEU:HD21	1:Ct:91:ILE:HD13	1.98	0.46
1:Au:25:ASP:HA	1:Cu:88:VAL:HG21	1.98	0.46
1:Ft:68:CYS:SG	1:Ft:75:LEU:HD13	2.56	0.46
1:Ju:28:THR:HG21	1:Ou:87:GLU:CB	2.46	0.46
3:Xv:645:GLY:O	3:Xv:649:THR:HG22	2.15	0.46
1:Fm:24:ALA:HB2	1:Fm:48:VAL:HG11	1.98	0.46
1:Fo:24:ALA:HB2	1:Fo:48:VAL:HG11	1.98	0.46
1:Er:25:ASP:HA	1:Fr:88:VAL:HG21	1.97	0.46
1:Fj:68:CYS:SG	1:Fj:75:LEU:HD13	2.56	0.46
2:Pp:14:ASN:ND2	2:Pq:76:ILE:HD12	2.31	0.46
3:X7:617:SER:HB3	1:DM:79:HIS:HD2	1.80	0.46
1:LN:62:ARG:HG2	3:XN:638:ILE:HG13	1.96	0.46
1:Fh:68:CYS:SG	1:Fh:75:LEU:HD13	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Df:8:ALA:C	1:Df:57:VAL:HG21	2.41	0.46
1:Fl:68:CYS:SG	1:Fl:75:LEU:HD13	2.56	0.46
1:FD:35:LEU:HD21	1:DD:91:ILE:HD13	1.98	0.46
1:C5:12:ILE:HG23	1:C5:75:LEU:CD1	2.45	0.46
1:F1:68:CYS:SG	1:F1:75:LEU:HD13	2.56	0.46
1:D0:79:HIS:CB	3:XR:617:SER:O	2.63	0.46
1:F8:68:CYS:SG	1:F8:75:LEU:HD13	2.56	0.46
3:X0:637:LEU:HD23	3:X0:649:THR:HG22	1.98	0.46
1:AQ:35:LEU:HD21	1:CQ:91:ILE:HD13	1.98	0.46
1:AT:35:LEU:HD21	1:CT:91:ILE:HD13	1.98	0.46
1:DT:28:THR:CG2	1:EG:85:HIS:CE1	2.98	0.46
1:ER:25:ASP:HA	1:FR:88:VAL:HG21	1.97	0.46
1:FT:68:CYS:SG	1:FT:75:LEU:HD13	2.56	0.46
1:GQ:58:ASN:O	1:GQ:62:ARG:HG3	2.16	0.46
1:LS:62:ARG:NH1	3:XS:634:GLU:O	2.49	0.46
2:PP:14:ASN:ND2	2:PQ:76:ILE:HD12	2.31	0.46
3:XR:691:ILE:HD12	3:XR:691:ILE:O	2.15	0.46
1:AI:25:ASP:HA	1:CI:88:VAL:HG21	1.99	0.46
1:DL:55:GLY:HA2	3:Xx:643:TYR:HE2	1.81	0.46
1:FO:68:CYS:SG	1:FO:75:LEU:HD13	2.56	0.46
3:YM:724:ILE:HG13	3:YM:727:THR:HG23	1.98	0.46
1:Ce:79:HIS:HD2	3:Yh:862:THR:OG1	1.99	0.46
1:Eh:88:VAL:HG21	1:Dp:25:ASP:HA	1.97	0.46
1:Fe:24:ALA:HB2	1:Fe:48:VAL:HG11	1.98	0.46
1:Fg:24:ALA:HB2	1:Fg:48:VAL:HG11	1.98	0.46
1:Fi:68:CYS:SG	1:Fi:75:LEU:HD13	2.56	0.46
1:Gf:25:ASP:HA	1:If:88:VAL:HG21	1.97	0.46
1:Je:61:VAL:HG12	3:Xd:627:VAL:HG12	1.98	0.46
1:Ji:28:THR:HG21	1:Oi:87:GLU:CB	2.46	0.46
1:Li:31:ALA:O	1:Jp:83:ARG:HD2	2.15	0.46
2:Ph:10:LEU:HD13	2:Ph:37:VAL:HG21	1.97	0.46
2:Ph:14:ASN:HD21	2:Pi:76:ILE:H	1.64	0.46
1:BX:66:ASP:OD2	3:YW:719:LEU:HB3	2.16	0.46
1:CV:79:HIS:HD2	3:YY:862:THR:OG1	1.99	0.46
3:XZ:645:GLY:HA2	1:DI:62:ARG:NE	2.31	0.46
1:AU:25:ASP:HA	1:CU:88:VAL:HG21	1.99	0.46
1:AU:35:LEU:HD21	1:CU:91:ILE:HD13	1.98	0.46
1:Ca:79:HIS:HD2	3:Yd:862:THR:OG1	2.00	0.46
1:Fb:24:ALA:HB2	1:Fb:48:VAL:HG11	1.98	0.46
3:XU:637:LEU:HD23	3:XU:649:THR:HG22	1.98	0.46
1:Bw:66:ASP:OD2	3:Yv:719:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fx:24:ALA:HB2	1:Fx:48:VAL:HG11	1.98	0.46
1:Jt:28:THR:HG21	1:Ot:87:GLU:CB	2.46	0.46
1:Ek:25:ASP:HA	1:Fk:88:VAL:HG21	1.97	0.46
1:Gl:25:ASP:HA	1:Il:88:VAL:HG21	1.97	0.46
1:Jn:62:ARG:NE	3:XY:624:SER:N	2.64	0.46
1:Cp:79:HIS:HD2	3:Ys:862:THR:OG1	1.99	0.46
1:Kp:35:LEU:HD12	1:Kp:50:VAL:HG12	1.98	0.46
2:Pr:14:ASN:ND2	2:Ps:76:ILE:HD12	2.31	0.46
1:J6:83:ARG:NH1	1:LN:32:GLU:HA	2.30	0.46
3:X7:617:SER:CB	1:DM:79:HIS:HD2	2.29	0.46
1:Fl:24:ALA:HB2	1:Fl:48:VAL:HG11	1.98	0.46
1:CA:79:HIS:HD2	3:YD:862:THR:OG1	1.99	0.45
1:CB:14:THR:HB	1:CB:19:PRO:HB2	1.97	0.45
1:EA:25:ASP:HA	1:FA:88:VAL:HG21	1.97	0.45
1:FD:24:ALA:HB2	1:FD:48:VAL:HG11	1.98	0.45
1:FD:35:LEU:HD21	1:DD:91:ILE:CG2	2.38	0.45
1:JE:28:THR:HG21	1:OE:87:GLU:CB	2.46	0.45
1:B4:61:VAL:HG12	3:Y3:724:ILE:HD13	1.98	0.45
1:C5:14:THR:HB	1:C5:19:PRO:HB2	1.97	0.45
1:F1:24:ALA:HB2	1:F1:48:VAL:HG11	1.98	0.45
1:G2:58:ASN:O	1:G2:62:ARG:HG3	2.16	0.45
1:H5:62:ARG:HG3	3:Y3:848:ILE:CD1	2.29	0.45
2:P1:53:VAL:HB	2:P1:74:ILE:HD13	1.97	0.45
1:A8:35:LEU:HD21	1:C8:91:ILE:HD13	1.98	0.45
1:E6:25:ASP:HA	1:F6:88:VAL:HG21	1.97	0.45
1:F6:68:CYS:SG	1:F6:75:LEU:HD13	2.56	0.45
1:F7:24:ALA:HB2	1:F7:48:VAL:HG11	1.98	0.45
1:F7:29:LYS:NZ	1:D7:83:ARG:O	2.40	0.45
1:F9:24:ALA:HB2	1:F9:48:VAL:HG11	1.98	0.45
1:O6:87:GLU:CB	1:J6:28:THR:HG21	2.46	0.45
1:AS:25:ASP:HA	1:CS:88:VAL:HG21	1.98	0.45
1:CP:29:LYS:HE2	2:PT:45:ILE:HG22	1.99	0.45
1:DT:28:THR:CG2	1:EG:87:GLU:OE1	2.64	0.45
1:FP:24:ALA:HB2	1:FP:48:VAL:HG11	1.98	0.45
1:JR:28:THR:HG21	1:OR:87:GLU:CB	2.46	0.45
1:KP:58:ASN:OD1	3:YT:802:VAL:HG13	2.15	0.45
2:PQ:10:LEU:HD21	2:PR:77:ILE:HG12	1.98	0.45
2:PS:10:LEU:HD13	2:PS:37:VAL:HG21	1.97	0.45
1:CG:29:LYS:HE2	2:PK:45:ILE:HG22	1.98	0.45
1:DK:28:THR:HG22	1:EO:85:HIS:CE1	2.52	0.45
1:EJ:90:ASN:CB	1:Dm:97:GLN:HA	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FJ:24:ALA:HB2	1:FJ:48:VAL:HG11	1.98	0.45
1:HH:80:ILE:HD12	3:YK:848:ILE:HG21	1.99	0.45
1:JK:28:THR:HG21	1:OK:87:GLU:CB	2.46	0.45
3:XK:617:SER:HB3	1:Fm:71:VAL:HG22	1.99	0.45
1:CN:12:ILE:HG23	1:CN:75:LEU:CD1	2.45	0.45
1:JL:28:THR:HG21	1:OL:87:GLU:CB	2.46	0.45
1:JM:28:THR:HG21	1:OM:87:GLU:CB	2.46	0.45
1:KM:35:LEU:HD12	1:KM:50:VAL:HG12	1.98	0.45
2:PO:14:ASN:O	2:PF:42:ILE:HD12	2.17	0.45
1:AZ:25:ASP:HA	1:CZ:88:VAL:HG21	1.99	0.45
1:KX:35:LEU:HD12	1:KX:50:VAL:HG12	1.98	0.45
1:LZ:83:ARG:NH1	1:DI:28:THR:O	2.49	0.45
3:XZ:622:ASP:O	1:JI:62:ARG:HD2	2.16	0.45
1:Ac:35:LEU:HD21	1:Cc:91:ILE:HD13	1.98	0.45
1:Ad:25:ASP:HA	1:Cd:88:VAL:HG21	1.98	0.45
1:Jb:28:THR:HG21	1:Ob:87:GLU:CB	2.46	0.45
3:Yb:724:ILE:HG13	3:Yb:727:THR:HG23	1.98	0.45
1:At:25:ASP:HA	1:Ct:88:VAL:HG21	1.98	0.45
1:Eu:25:ASP:HA	1:Fu:88:VAL:HG21	1.97	0.45
1:Jw:28:THR:HG21	1:Ow:87:GLU:CB	2.46	0.45
1:Jw:80:ILE:CD1	3:XM:627:VAL:HG11	2.45	0.45
2:Pw:10:LEU:HD13	2:Pw:37:VAL:HG21	1.97	0.45
2:Pw:28:TRP:CD2	2:Pw:31:PRO:HA	2.50	0.45
1:Bn:79:HIS:HA	3:Ym:725:THR:O	2.16	0.45
1:Ck:79:HIS:HD2	3:Yn:862:THR:OG1	1.99	0.45
1:Cm:12:ILE:HG23	1:Cm:75:LEU:CD1	2.45	0.45
1:Jo:28:THR:HG21	1:Oo:87:GLU:CB	2.46	0.45
1:Aj:25:ASP:HA	1:Cj:88:VAL:HG21	1.98	0.45
1:Br:91:ILE:HD11	1:Iq:21:ILE:HD13	1.99	0.45
1:Ep:87:GLU:OE1	1:Dh:28:THR:HG23	2.16	0.45
1:Kj:35:LEU:HD12	1:Kj:50:VAL:HG12	1.98	0.45
1:DH:11:MET:HG2	1:DH:49:LEU:HD23	1.99	0.45
1:AC:25:ASP:HA	1:CC:88:VAL:HG21	1.99	0.45
1:AD:25:ASP:HA	1:CD:88:VAL:HG21	1.99	0.45
1:BB:91:ILE:HD12	1:IA:21:ILE:CD1	2.46	0.45
1:DE:97:GLN:CA	1:E1:90:ASN:HB3	2.31	0.45
1:HB:80:ILE:HD12	3:YE:848:ILE:HG21	1.99	0.45
1:JA:61:VAL:HG12	3:X9:627:VAL:HG12	1.98	0.45
1:JD:80:ILE:CD1	3:Xh:627:VAL:CG1	2.91	0.45
1:KB:35:LEU:HD12	1:KB:50:VAL:HG12	1.98	0.45
3:XE:643:TYR:OH	1:Dg:55:GLY:HA2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A2:35:LEU:HD21	1:C2:91:ILE:HD13	1.98	0.45
1:D2:21:ILE:HG21	1:Ef:92:LEU:HD21	1.97	0.45
1:D5:28:THR:HG22	1:E9:85:HIS:CE1	2.52	0.45
1:J4:28:THR:HG21	1:O4:87:GLU:CB	2.46	0.45
1:K4:35:LEU:HD12	1:K4:50:VAL:HG12	1.98	0.45
1:M5:29:LYS:NZ	1:L0:29:LYS:O	2.45	0.45
1:A7:25:ASP:HA	1:C7:88:VAL:HG21	1.98	0.45
1:F0:24:ALA:HB2	1:F0:48:VAL:HG11	1.98	0.45
1:F0:68:CYS:SG	1:F0:75:LEU:HD13	2.56	0.45
1:F7:68:CYS:SG	1:F7:75:LEU:HD13	2.56	0.45
3:X6:618:GLY:HA3	1:DQ:80:ILE:O	2.17	0.45
3:X6:624:SER:HB2	1:JQ:62:ARG:HH21	1.69	0.45
1:FQ:68:CYS:SG	1:FQ:75:LEU:HD13	2.56	0.45
1:FR:68:CYS:SG	1:FR:75:LEU:HD13	2.56	0.45
1:FS:68:CYS:SG	1:FS:75:LEU:HD13	2.56	0.45
1:AJ:25:ASP:HA	1:CJ:88:VAL:HG21	1.99	0.45
1:CG:79:HIS:HD2	3:YJ:862:THR:OG1	2.00	0.45
1:DK:28:THR:CG2	1:EO:87:GLU:OE1	2.64	0.45
1:JH:28:THR:HG21	1:OH:87:GLU:CB	2.46	0.45
1:JJ:62:ARG:NE	3:Xn:624:SER:CB	2.74	0.45
1:KH:35:LEU:HD12	1:KH:50:VAL:HG12	1.98	0.45
1:CL:79:HIS:HD2	3:YO:862:THR:OG1	1.99	0.45
1:FO:24:ALA:HB2	1:FO:48:VAL:HG11	1.98	0.45
1:KN:58:ASN:OD1	3:YM:802:VAL:CG1	2.65	0.45
1:Ce:29:LYS:HE2	2:Pi:45:ILE:CG2	2.47	0.45
1:Ci:79:HIS:HD2	3:Yg:862:THR:OG1	1.98	0.45
1:Fg:68:CYS:SG	1:Fg:75:LEU:HD13	2.56	0.45
1:Jf:62:ARG:HD3	3:X3:620:SER:O	2.16	0.45
1:AW:25:ASP:HA	1:CW:88:VAL:HG21	1.99	0.45
1:CY:14:THR:HB	1:CY:19:PRO:HB2	1.97	0.45
1:KW:35:LEU:HD12	1:KW:50:VAL:HG12	1.98	0.45
1:CU:12:ILE:HG23	1:CU:75:LEU:CD1	2.45	0.45
1:Fc:24:ALA:HB2	1:Fc:48:VAL:HG11	1.98	0.45
1:Oc:82:ALA:H	3:Xc:716:PRO:HG2	1.82	0.45
2:Pa:1:MET:HE1	2:PU:39:VAL:HG23	1.97	0.45
1:Gu:58:ASN:O	1:Gu:62:ARG:HG3	2.16	0.45
1:Kt:35:LEU:HD12	1:Kt:50:VAL:HG12	1.98	0.45
2:Pw:39:VAL:HG21	2:Pw:67:TYR:HE1	1.81	0.45
1:Bm:41:VAL:HG13	1:Il:40:PHE:CD1	2.50	0.45
1:Bn:61:VAL:HG12	3:Ym:724:ILE:HD13	1.97	0.45
1:Ck:29:LYS:HE2	2:Po:45:ILE:CG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Co:79:HIS:HD2	3:Ym:862:THR:OG1	1.98	0.45
1:Fm:68:CYS:SG	1:Fm:75:LEU:HD13	2.56	0.45
1:Ar:25:ASP:HA	1:Cr:88:VAL:HG21	1.99	0.45
2:Pr:44:CYS:SG	2:Pr:73:ILE:HG21	2.57	0.45
1:NL:31:ALA:HB3	1:NL:60:ALA:HB2	1.98	0.45
1:LI:78:ALA:HB1	3:XI:638:ILE:HD12	1.97	0.45
1:DF:8:ALA:O	1:DF:51:ARG:HA	2.16	0.45
1:CA:29:LYS:HE2	2:PE:45:ILE:HG22	1.99	0.45
1:JB:28:THR:HG21	1:OB:87:GLU:CB	2.46	0.45
1:A1:25:ASP:HA	1:C1:88:VAL:HG21	1.98	0.45
1:B2:47:THR:HG23	1:I1:18:VAL:CG2	2.47	0.45
1:B3:66:ASP:OD2	3:Y2:719:LEU:HB3	2.16	0.45
1:B4:79:HIS:HA	3:Y3:725:THR:O	2.16	0.45
1:E2:25:ASP:HA	1:F2:88:VAL:HG21	1.97	0.45
1:F3:88:VAL:HG21	1:E3:25:ASP:HA	1.97	0.45
1:J2:28:THR:HG21	1:O2:87:GLU:CB	2.46	0.45
1:K3:35:LEU:HD12	1:K3:50:VAL:HG12	1.98	0.45
1:O3:87:GLU:CB	1:J3:28:THR:HG21	2.46	0.45
3:X1:727:THR:HA	3:X1:728:PRO:HD3	1.85	0.45
1:A0:35:LEU:HD21	1:C0:91:ILE:HD13	1.98	0.45
1:J7:80:ILE:HD12	3:Xw:627:VAL:CG1	2.46	0.45
2:P9:39:VAL:HG21	2:P9:67:TYR:HE2	1.80	0.45
1:FQ:24:ALA:HB2	1:FQ:48:VAL:HG11	1.98	0.45
1:FS:24:ALA:HB2	1:FS:48:VAL:HG11	1.98	0.45
2:PS:39:VAL:HG21	2:PS:67:TYR:HE1	1.81	0.45
1:AG:35:LEU:HD21	1:CG:91:ILE:HD13	1.98	0.45
1:BG:83:ARG:NH1	1:EK:28:THR:O	2.43	0.45
1:BH:91:ILE:HD12	1:IG:21:ILE:CD1	2.45	0.45
1:CG:29:LYS:HE2	2:PK:45:ILE:CG2	2.47	0.45
1:FJ:96:PRO:CB	1:DJ:91:ILE:HG22	2.39	0.45
1:AF:35:LEU:HD21	1:CF:91:ILE:HD13	1.98	0.45
1:AO:25:ASP:HA	1:CO:88:VAL:HG21	1.98	0.45
1:CN:14:THR:HB	1:CN:19:PRO:HB2	1.97	0.45
1:CN:73:ASP:OD2	1:HM:45:TYR:OH	2.18	0.45
1:KL:35:LEU:HD12	1:KL:50:VAL:HG12	1.98	0.45
1:OF:87:GLU:CB	1:JF:28:THR:HG21	2.46	0.45
1:Ah:25:ASP:HA	1:Ch:88:VAL:HG21	1.98	0.45
1:Bg:41:VAL:HG13	1:If:40:PHE:CD1	2.50	0.45
1:Bh:47:THR:HG23	1:Ig:18:VAL:CG2	2.47	0.45
1:Cg:12:ILE:HG23	1:Cg:75:LEU:CD1	2.45	0.45
1:Cg:73:ASP:OD2	1:Hf:45:TYR:OH	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ee:25:ASP:HA	1:Fe:88:VAL:HG21	1.97	0.45
1:Jf:62:ARG:HG2	3:X3:627:VAL:CG2	2.45	0.45
1:DZ:28:THR:CG2	1:Ed:87:GLU:OE1	2.64	0.45
1:EY:25:ASP:HA	1:FY:88:VAL:HG21	1.97	0.45
1:EZ:25:ASP:HA	1:FZ:88:VAL:HG21	1.97	0.45
1:JW:28:THR:HG21	1:OW:87:GLU:CB	2.46	0.45
1:JX:28:THR:HG21	1:OX:87:GLU:CB	2.46	0.45
1:Aa:25:ASP:HA	1:Ca:88:VAL:HG21	1.98	0.45
1:Ca:29:LYS:HE2	2:PU:45:ILE:HG22	1.99	0.45
1:Ja:28:THR:HG21	1:Oa:87:GLU:CB	2.46	0.45
1:Jb:62:ARG:NH2	3:X4:624:SER:CB	2.80	0.45
1:Fu:68:CYS:SG	1:Fu:75:LEU:HD13	2.56	0.45
1:Lv:62:ARG:NH1	3:Xv:634:GLU:HA	2.30	0.45
2:Pu:10:LEU:HD21	2:Pv:77:ILE:HG12	1.98	0.45
1:Fn:24:ALA:HB2	1:Fn:48:VAL:HG11	1.98	0.45
2:Pn:44:CYS:SG	2:Pn:73:ILE:HG21	2.57	0.45
1:Bj:11:MET:HB3	1:Is:18:VAL:CG2	2.46	0.45
1:Ep:13:GLU:HB2	1:Dh:18:VAL:HG21	1.97	0.45
1:Eq:25:ASP:HA	1:Fq:88:VAL:HG21	1.97	0.45
1:Jj:28:THR:HG21	1:Oj:87:GLU:CB	2.46	0.45
1:FY:68:CYS:SG	1:FY:75:LEU:HD13	2.56	0.45
1:FF:15:ARG:HE	1:FF:73:ASP:HB3	1.81	0.45
1:JU:30:ALA:O	1:DU:82:ALA:HB3	2.16	0.45
1:Lm:79:HIS:HD2	1:Lm:81:ILE:HG12	1.81	0.45
1:BA:83:ARG:NH1	1:EE:28:THR:O	2.43	0.45
1:BD:47:THR:HG23	1:IC:18:VAL:CG2	2.47	0.45
1:JD:28:THR:HG21	1:OD:87:GLU:CB	2.46	0.45
2:PE:44:CYS:SG	2:PE:73:ILE:HG21	2.57	0.45
1:B4:47:THR:HG23	1:I3:18:VAL:CG2	2.47	0.45
1:J5:28:THR:HG21	1:O5:87:GLU:CB	2.46	0.45
1:K3:58:ASN:OD1	3:Y2:802:VAL:CG1	2.65	0.45
1:K5:35:LEU:HD12	1:K5:50:VAL:HG12	1.98	0.45
1:D0:78:ALA:O	3:XR:617:SER:N	2.26	0.45
1:F9:68:CYS:SG	1:F9:75:LEU:HD13	2.56	0.45
1:BR:41:VAL:HG13	1:IQ:40:PHE:CD1	2.50	0.45
2:PQ:59:ARG:NH2	2:PR:57:ALA:HA	2.31	0.45
1:BJ:47:THR:HG23	1:II:18:VAL:CG2	2.47	0.45
1:BK:91:ILE:HD12	1:IJ:21:ILE:CD1	2.44	0.45
1:DK:36:VAL:O	1:DK:95:ALA:HB3	2.17	0.45
1:FJ:18:VAL:CG1	1:DJ:79:HIS:HB2	2.46	0.45
1:JJ:28:THR:HG21	1:OJ:87:GLU:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PK:44:CYS:SG	2:PK:73:ILE:HG21	2.57	0.45
1:BM:47:THR:HG23	1:IL:18:VAL:CG2	2.47	0.45
1:BO:47:THR:HG23	1:IN:18:VAL:CG2	2.47	0.45
1:EN:25:ASP:HA	1:FN:88:VAL:HG21	1.97	0.45
1:IL:82:ALA:HB3	1:OL:30:ALA:O	2.17	0.45
1:KN:35:LEU:HD12	1:KN:50:VAL:HG12	1.98	0.45
2:PF:44:CYS:SG	2:PF:73:ILE:HG21	2.57	0.45
1:Di:28:THR:CG2	1:EV:87:GLU:OE1	2.64	0.45
1:Jh:28:THR:HG21	1:Oh:87:GLU:CB	2.46	0.45
1:Mi:82:ALA:HB3	1:Mp:30:ALA:O	2.17	0.45
1:CV:29:LYS:HE2	2:PZ:45:ILE:HG22	1.98	0.45
1:DW:55:GLY:C	3:Xp:643:TYR:CE1	2.87	0.45
1:FX:24:ALA:HB2	1:FX:48:VAL:HG11	1.98	0.45
1:FX:68:CYS:SG	1:FX:75:LEU:HD13	2.56	0.45
2:PV:44:CYS:SG	2:PV:73:ILE:HG21	2.57	0.45
2:PZ:44:CYS:SG	2:PZ:73:ILE:HG21	2.57	0.45
1:BU:91:ILE:HD12	1:Id:21:ILE:CD1	2.44	0.45
1:Ca:29:LYS:HE2	2:PU:45:ILE:CG2	2.47	0.45
1:Ea:13:GLU:OE2	1:DS:17:LEU:N	2.45	0.45
1:Lc:65:ALA:HB3	3:Xc:636:GLN:HG2	1.99	0.45
3:Ya:713:ILE:H	3:Ya:713:ILE:HG13	1.53	0.45
1:Av:25:ASP:HA	1:Cv:88:VAL:HG21	1.99	0.45
1:Fw:24:ALA:HB2	1:Fw:48:VAL:HG11	1.98	0.45
1:Mv:18:VAL:HG13	1:Jv:11:MET:HE3	1.99	0.45
1:Ov:92:LEU:HD21	1:Jv:21:ILE:HD13	1.97	0.45
1:Am:35:LEU:HD21	1:Cm:91:ILE:HD13	1.98	0.45
1:An:25:ASP:HA	1:Cn:88:VAL:HG21	1.99	0.45
1:Ao:25:ASP:HA	1:Co:88:VAL:HG21	1.98	0.45
1:Bn:47:THR:HG23	1:Im:18:VAL:CG2	2.47	0.45
1:Ap:85:HIS:HB3	1:Ap:88:VAL:HG23	1.99	0.45
1:Cq:14:THR:HB	1:Cq:19:PRO:HB2	1.96	0.45
1:Hq:80:ILE:HD12	3:Yj:848:ILE:HG21	1.98	0.45
1:Jp:28:THR:HG21	1:Op:87:GLU:CB	2.46	0.45
2:Ps:44:CYS:SG	2:Ps:73:ILE:HG21	2.57	0.45
3:Xs:700:ASN:HD22	3:Xs:700:ASN:HA	1.61	0.45
3:Xb:724:ILE:H	3:Xb:724:ILE:HG13	1.52	0.45
1:DH:57:VAL:HG12	1:DH:80:ILE:HG23	1.98	0.45
1:DU:12:ILE:HG23	1:DU:75:LEU:HD12	1.98	0.45
1:JF:87:GLU:CB	1:MF:28:THR:HG21	2.47	0.45
1:AA:35:LEU:HD21	1:CA:91:ILE:HD13	1.98	0.45
1:AB:25:ASP:HA	1:CB:88:VAL:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:29:LYS:HE2	2:PE:45:ILE:CG2	2.47	0.45
1:DE:36:VAL:O	1:DE:95:ALA:HB3	2.17	0.45
1:OC:87:GLU:CB	1:JC:28:THR:HG21	2.46	0.45
1:F2:68:CYS:SG	1:F2:75:LEU:HD13	2.56	0.45
1:F4:68:CYS:SG	1:F4:75:LEU:HD13	2.56	0.45
1:L5:32:GLU:HB2	1:JR:7:ILE:HD11	1.99	0.45
2:P1:1:MET:HE1	2:P5:39:VAL:HG23	1.97	0.45
2:P2:44:CYS:SG	2:P2:73:ILE:HG21	2.57	0.45
2:P3:44:CYS:SG	2:P3:73:ILE:HG21	2.57	0.45
1:B9:47:THR:CG2	1:I8:18:VAL:CG2	2.91	0.45
1:J8:28:THR:HG21	1:O8:87:GLU:CB	2.46	0.45
1:J9:28:THR:HG21	1:O9:87:GLU:CB	2.46	0.45
2:P7:4:MET:HE3	2:P7:29:GLU:HG3	1.99	0.45
2:P8:4:MET:HE3	2:P8:29:GLU:HG3	1.99	0.45
3:X0:699:GLN:O	3:X0:700:ASN:C	2.59	0.45
1:FP:68:CYS:SG	1:FP:75:LEU:HD13	2.56	0.45
1:FP:79:HIS:HA	3:XP:725:THR:O	2.15	0.45
1:JT:28:THR:HG21	1:OT:87:GLU:CB	2.46	0.45
1:KS:35:LEU:HD12	1:KS:50:VAL:HG12	1.98	0.45
1:LR:62:ARG:NH1	3:XR:634:GLU:HA	2.30	0.45
3:YR:703:THR:HB	1:D4:71:VAL:HG12	1.98	0.45
1:BN:91:ILE:HD11	1:IM:21:ILE:HD13	1.98	0.45
3:XF:699:GLN:O	3:XF:700:ASN:C	2.59	0.45
1:Ae:25:ASP:HA	1:Ce:88:VAL:HG21	1.98	0.45
1:Af:25:ASP:HA	1:Cf:88:VAL:HG21	1.98	0.45
1:Ag:35:LEU:HD21	1:Cg:91:ILE:HD13	1.98	0.45
1:Dg:36:VAL:O	1:Dg:95:ALA:HB3	2.17	0.45
1:Hi:12:ILE:HG23	1:Hi:75:LEU:HD12	1.99	0.45
1:Ki:58:ASN:OD1	3:Yh:802:VAL:HG13	2.17	0.45
2:Pi:44:CYS:SG	2:Pi:73:ILE:HG21	2.57	0.45
1:BY:79:HIS:HA	3:YX:725:THR:O	2.16	0.45
1:DZ:28:THR:HG22	1:Ed:85:HIS:CE1	2.52	0.45
2:PV:14:ASN:ND2	2:PW:76:ILE:HD12	2.31	0.45
1:FU:68:CYS:SG	1:FU:75:LEU:HD13	2.56	0.45
1:Kd:35:LEU:HD12	1:Kd:50:VAL:HG12	1.98	0.45
2:Pd:14:ASN:O	2:PU:42:ILE:HD12	2.17	0.45
2:PU:4:MET:HE3	2:PU:29:GLU:HG3	1.99	0.45
1:Bu:47:THR:HG23	1:It:18:VAL:CG2	2.47	0.45
1:Fv:68:CYS:SG	1:Fv:75:LEU:HD13	2.56	0.45
1:Jx:28:THR:HG21	1:Ox:87:GLU:CB	2.46	0.45
2:Pt:4:MET:HE3	2:Pt:29:GLU:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bm:66:ASP:OD2	3:Yl:719:LEU:HB3	2.16	0.45
1:Dm:36:VAL:O	1:Dm:95:ALA:HB3	2.17	0.45
1:Fn:28:THR:CG2	1:Dn:85:HIS:CG	2.85	0.45
1:Gl:58:ASN:O	1:Gl:62:ARG:HG3	2.16	0.45
1:Jl:28:THR:HG21	1:Ol:87:GLU:CB	2.46	0.45
1:Jn:28:THR:HG21	1:On:87:GLU:CB	2.46	0.45
3:Yl:802:VAL:CG1	1:Km:58:ASN:OD1	2.65	0.45
1:Fp:24:ALA:HB2	1:Fp:48:VAL:HG11	1.98	0.45
1:Fp:68:CYS:SG	1:Fp:75:LEU:HD13	2.56	0.45
2:Ps:14:ASN:O	2:Pj:42:ILE:HD12	2.17	0.45
1:D4:27:MET:HB3	1:D4:60:ALA:HB1	1.99	0.45
1:DS:53:GLU:O	1:DS:55:GLY:N	2.50	0.45
1:FL:13:GLU:HB2	1:EL:18:VAL:CG2	2.46	0.45
1:Fh:18:VAL:CG2	1:Dh:13:GLU:HB2	2.47	0.45
1:Fh:24:ALA:HB2	1:Fh:48:VAL:HG11	1.98	0.45
1:Fq:68:CYS:SG	1:Fq:75:LEU:HD13	2.56	0.45
1:Db:18:VAL:HB	1:Db:19:PRO:HD3	1.99	0.45
1:JI:28:THR:HG21	1:OI:87:GLU:CB	2.46	0.45
1:AC:35:LEU:HD21	1:CC:91:ILE:HD13	1.98	0.45
1:BE:91:ILE:HD12	1:ID:21:ILE:CD1	2.44	0.45
1:EA:11:MET:HB3	1:D8:18:VAL:CG2	2.47	0.45
1:FB:24:ALA:HB2	1:FB:48:VAL:HG11	1.98	0.45
1:GB:58:ASN:O	1:GB:62:ARG:HG3	2.16	0.45
1:KE:58:ASN:OD1	3:YD:802:VAL:HG13	2.17	0.45
2:PA:44:CYS:SG	2:PA:73:ILE:HG21	2.57	0.45
2:PB:59:ARG:NH2	2:PC:57:ALA:HA	2.31	0.45
1:B1:91:ILE:HD11	1:I5:21:ILE:HD13	1.96	0.45
1:E5:25:ASP:HA	1:F5:88:VAL:HG21	1.97	0.45
1:H5:8:ALA:HB3	1:H5:52:GLY:O	2.17	0.45
1:I2:82:ALA:HB3	1:O2:30:ALA:O	2.17	0.45
1:I3:82:ALA:HB3	1:O3:30:ALA:O	2.17	0.45
1:K5:58:ASN:OD1	3:Y4:802:VAL:HG13	2.17	0.45
2:P2:10:LEU:HD21	2:P3:77:ILE:HG12	1.98	0.45
1:C6:29:LYS:HE2	2:P0:45:ILE:CG2	2.47	0.45
1:E6:77:ALA:HB2	1:DM:72:GLY:HA2	1.98	0.45
1:F8:79:HIS:HA	3:X8:725:THR:O	2.16	0.45
1:H7:12:ILE:HG23	1:H7:75:LEU:HD12	1.99	0.45
1:J7:62:ARG:NH1	3:Xw:620:SER:OG	2.50	0.45
1:K7:35:LEU:HD12	1:K7:50:VAL:HG12	1.98	0.45
1:K8:58:ASN:OD1	3:Y7:802:VAL:CG1	2.65	0.45
2:P8:14:ASN:ND2	2:P9:76:ILE:HD12	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BP:91:ILE:HD11	1:IT:21:ILE:HD13	1.96	0.45
1:EP:11:MET:HB3	1:DN:18:VAL:CG2	2.47	0.45
1:GR:68:CYS:HA	1:GR:71:VAL:HG12	1.99	0.45
1:JP:28:THR:HG21	1:OP:87:GLU:CB	2.46	0.45
1:KR:35:LEU:HD12	1:KR:50:VAL:HG12	1.98	0.45
2:PT:4:MET:HE3	2:PT:29:GLU:HG3	1.99	0.45
3:YS:867:ALA:O	3:YS:868:ARG:C	2.60	0.45
1:AH:25:ASP:HA	1:CH:88:VAL:HG21	1.98	0.45
1:EH:91:ILE:CG2	1:DU:35:LEU:CD2	2.94	0.45
1:KK:58:ASN:OD1	3:YJ:802:VAL:HG13	2.17	0.45
1:MH:29:LYS:NZ	1:La:29:LYS:O	2.50	0.45
2:PG:44:CYS:SG	2:PG:73:ILE:HG21	2.57	0.45
2:PH:4:MET:HE3	2:PH:29:GLU:HG3	1.99	0.45
2:PJ:4:MET:HE3	2:PJ:29:GLU:HG3	1.99	0.45
2:PJ:44:CYS:SG	2:PJ:73:ILE:HG21	2.57	0.45
1:CF:72:GLY:HA2	1:HO:77:ALA:HB2	1.97	0.45
1:CL:29:LYS:HE2	2:PF:45:ILE:CG2	2.47	0.45
1:FM:68:CYS:SG	1:FM:75:LEU:HD13	2.56	0.45
1:GF:18:VAL:HB	1:GF:19:PRO:HD3	1.99	0.45
1:IF:82:ALA:HB3	1:OF:30:ALA:O	2.17	0.45
1:JN:28:THR:HG21	1:ON:87:GLU:CB	2.46	0.45
2:PL:44:CYS:SG	2:PL:73:ILE:HG21	2.57	0.45
3:XL:626:LEU:HD22	1:Jl:65:ALA:HB1	1.99	0.45
1:Ai:25:ASP:HA	1:Ci:88:VAL:HG21	1.99	0.45
1:Bf:91:ILE:HD12	1:Ie:21:ILE:CD1	2.46	0.45
1:De:9:LEU:HG	1:De:11:MET:HE2	1.99	0.45
1:Gf:58:ASN:O	1:Gf:62:ARG:HG3	2.16	0.45
1:Hf:8:ALA:HB3	1:Hf:52:GLY:O	2.17	0.45
1:Hi:8:ALA:HB3	1:Hi:52:GLY:O	2.17	0.45
1:Jf:28:THR:HG21	1:Of:87:GLU:CB	2.46	0.45
1:Jf:80:ILE:HD12	3:X3:627:VAL:CG1	2.46	0.45
2:Ph:39:VAL:HG21	2:Ph:67:TYR:HE1	1.81	0.45
1:BW:47:THR:HG23	1:IV:18:VAL:CG2	2.47	0.45
1:KX:58:ASN:OD1	3:YW:802:VAL:CG1	2.65	0.45
1:MZ:29:LYS:NZ	1:LU:29:LYS:O	2.44	0.45
2:PY:44:CYS:SG	2:PY:73:ILE:HG21	2.57	0.45
3:YZ:867:ALA:O	3:YZ:868:ARG:C	2.60	0.45
1:Aa:35:LEU:HD21	1:Ca:91:ILE:HD13	1.98	0.45
1:Fc:68:CYS:SG	1:Fc:75:LEU:HD13	2.56	0.45
1:Gb:68:CYS:HA	1:Gb:71:VAL:HG12	1.99	0.45
1:Ia:82:ALA:HB3	1:Oa:30:ALA:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jc:28:THR:HG21	1:Oc:87:GLU:CB	2.46	0.45
1:Kc:58:ASN:OD1	3:Yb:802:VAL:CG1	2.65	0.45
1:Bw:47:THR:HG23	1:Iv:18:VAL:CG2	2.47	0.45
1:Ct:79:HIS:HD2	3:Yw:862:THR:OG1	1.99	0.45
1:Fx:68:CYS:SG	1:Fx:75:LEU:HD13	2.56	0.45
1:Iv:82:ALA:HB3	1:Ov:30:ALA:O	2.17	0.45
1:Ix:82:ALA:HB3	1:Ox:30:ALA:O	2.17	0.45
1:Kx:58:ASN:OD1	3:Yw:802:VAL:HG13	2.17	0.45
2:Pt:44:CYS:SG	2:Pt:73:ILE:HG21	2.57	0.45
2:Pu:4:MET:HE3	2:Pu:29:GLU:HG3	1.99	0.45
1:Bl:91:ILE:HD12	1:Ik:21:ILE:CD1	2.46	0.45
1:Dk:9:LEU:HG	1:Dk:11:MET:HE2	1.99	0.45
1:Gk:68:CYS:HA	1:Gk:71:VAL:HG12	1.99	0.45
1:Hl:8:ALA:HB3	1:Hl:52:GLY:O	2.17	0.45
1:Hl:80:ILE:HD12	3:Yo:848:ILE:HG21	1.99	0.45
1:Ho:12:ILE:HG23	1:Ho:75:LEU:HD12	1.99	0.45
1:Ko:58:ASN:OD1	3:Yn:802:VAL:HG13	2.17	0.45
1:Aq:25:ASP:HA	1:Cq:88:VAL:HG21	1.98	0.45
1:Bj:91:ILE:HD12	1:Is:21:ILE:CD1	2.44	0.45
1:Kr:35:LEU:HD12	1:Kr:50:VAL:HG12	1.98	0.45
3:Yr:867:ALA:O	3:Yr:868:ARG:C	2.60	0.45
1:NL:12:ILE:HD12	1:NL:27:MET:SD	2.56	0.45
1:DJ:11:MET:HE3	1:DJ:79:HIS:CG	2.51	0.45
1:DJ:34:ARG:HG2	1:DJ:51:ARG:O	2.16	0.45
1:KI:35:LEU:HD12	1:KI:50:VAL:HG12	1.98	0.45
1:LI:79:HIS:HA	3:XI:639:SER:O	2.16	0.45
1:DA:36:VAL:O	1:DA:95:ALA:HB3	2.17	0.45
1:DB:25:ASP:CB	1:Eu:88:VAL:HG21	2.46	0.45
1:DC:18:VAL:HG11	1:Eq:77:ALA:HB1	1.99	0.45
1:ED:88:VAL:HG21	1:Dg:25:ASP:HA	1.98	0.45
1:FB:68:CYS:SG	1:FB:75:LEU:HD13	2.56	0.45
1:IE:82:ALA:HB3	1:OE:30:ALA:O	2.17	0.45
3:XC:643:TYR:CZ	1:Du:55:GLY:O	2.62	0.45
1:B1:83:ARG:NH1	1:E5:28:THR:O	2.43	0.45
1:D2:25:ASP:CA	1:Ef:88:VAL:HG21	2.47	0.45
1:D3:36:VAL:O	1:D3:95:ALA:HB3	2.17	0.45
1:D3:58:ASN:CB	3:Xc:643:TYR:CD1	2.76	0.45
1:F4:24:ALA:HB2	1:F4:48:VAL:HG11	1.98	0.45
1:G3:68:CYS:HA	1:G3:71:VAL:HG12	1.99	0.45
1:H3:12:ILE:HG23	1:H3:75:LEU:HD12	1.99	0.45
1:I1:82:ALA:HB3	1:O1:30:ALA:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B9:11:MET:HB3	1:I8:18:VAL:CG2	2.45	0.45
1:B9:47:THR:HG23	1:I8:18:VAL:CG2	2.47	0.45
1:G6:68:CYS:HA	1:G6:71:VAL:HG12	1.99	0.45
1:I7:82:ALA:HB3	1:O7:30:ALA:O	2.17	0.45
1:BR:79:HIS:HA	3:YQ:725:THR:O	2.16	0.45
1:BS:47:THR:HG23	1:IR:18:VAL:CG2	2.47	0.45
1:CP:79:HIS:HD2	3:YS:862:THR:OG1	1.99	0.45
1:DP:72:GLY:HA2	1:EN:77:ALA:HB2	1.97	0.45
1:EP:87:GLU:OE1	1:DN:28:THR:HG21	2.17	0.45
1:HT:8:ALA:HB3	1:HT:52:GLY:O	2.17	0.45
1:IS:82:ALA:HB3	1:OS:30:ALA:O	2.17	0.45
1:KT:35:LEU:HD12	1:KT:50:VAL:HG12	1.98	0.45
3:XR:693:THR:HG23	3:XR:694:PRO:HD2	1.99	0.45
1:BH:47:THR:HG23	1:IG:18:VAL:CG2	2.47	0.45
1:DG:36:VAL:O	1:DG:95:ALA:HB3	2.17	0.45
1:FH:68:CYS:SG	1:FH:75:LEU:HD13	2.56	0.45
1:GH:58:ASN:O	1:GH:62:ARG:HG3	2.16	0.45
1:IK:82:ALA:HB3	1:OK:30:ALA:O	2.17	0.45
1:MJ:29:LYS:NZ	1:Ln:29:LYS:O	2.44	0.45
1:FM:24:ALA:HB2	1:FM:48:VAL:HG11	1.98	0.45
1:IN:82:ALA:HB3	1:ON:30:ALA:O	2.17	0.45
1:IO:82:ALA:HB3	1:OO:30:ALA:O	2.17	0.45
1:Ae:35:LEU:HD21	1:Ce:91:ILE:HD13	1.98	0.45
1:Bf:41:VAL:HG13	1:Ie:40:PHE:CD1	2.52	0.45
1:Hf:80:ILE:HD12	3:Yi:848:ILE:HG21	1.99	0.45
1:Kg:58:ASN:OD1	3:Yf:802:VAL:CG1	2.65	0.45
3:Ye:867:ALA:O	3:Ye:868:ARG:C	2.60	0.45
1:AV:35:LEU:HD21	1:CV:91:ILE:HD13	1.98	0.45
1:EW:87:GLU:OE1	1:Dj:28:THR:CG2	2.65	0.45
1:EZ:54:THR:HG22	3:YZ:707:ILE:HG12	1.98	0.45
1:IY:82:ALA:HB3	1:OY:30:ALA:O	2.17	0.45
1:MX:83:ARG:HD2	1:Mj:31:ALA:O	2.16	0.45
2:PX:44:CYS:SG	2:PX:73:ILE:HG21	2.57	0.45
2:PZ:4:MET:HE3	2:PZ:29:GLU:HG3	1.99	0.45
1:Bb:47:THR:HG23	1:Ia:18:VAL:CG2	2.47	0.45
1:Fa:68:CYS:SG	1:Fa:75:LEU:HD13	2.56	0.45
1:Hb:80:ILE:HD12	3:YU:848:ILE:HG21	1.99	0.45
1:Hc:12:ILE:HG23	1:Hc:75:LEU:HD12	1.99	0.45
1:Ic:82:ALA:HB3	1:Oc:30:ALA:O	2.17	0.45
1:KU:58:ASN:OD1	3:Yd:802:VAL:HG13	2.17	0.45
2:Pd:4:MET:HE3	2:Pd:29:GLU:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pd:44:CYS:SG	2:Pd:73:ILE:HG21	2.57	0.45
1:Av:35:LEU:HD21	1:Cv:91:ILE:HD13	1.98	0.45
1:Et:87:GLU:OE1	1:Dr:28:THR:HG21	2.17	0.45
1:Jw:32:GLU:OE1	1:Dw:7:ILE:CG1	2.62	0.45
1:Kw:35:LEU:HD12	1:Kw:50:VAL:HG12	1.98	0.45
1:Kx:35:LEU:HD12	1:Kx:50:VAL:HG12	1.98	0.45
1:Al:25:ASP:HA	1:Cl:88:VAL:HG21	1.99	0.45
1:Dm:9:LEU:HG	1:Dm:11:MET:HE2	1.99	0.45
1:Hm:15:ARG:CZ	1:Hm:76:VAL:HG22	2.47	0.45
1:Ho:8:ALA:HB3	1:Ho:52:GLY:O	2.17	0.45
2:Pk:44:CYS:SG	2:Pk:73:ILE:HG21	2.57	0.45
2:Pm:44:CYS:SG	2:Pm:73:ILE:HG21	2.57	0.45
3:Yk:867:ALA:O	3:Yk:868:ARG:C	2.60	0.45
1:Gj:18:VAL:HB	1:Gj:19:PRO:HD3	1.99	0.45
1:Hj:12:ILE:HG23	1:Hj:75:LEU:HD12	1.99	0.45
1:Hq:8:ALA:HB3	1:Hq:52:GLY:O	2.17	0.45
1:Iq:82:ALA:HB3	1:Oq:30:ALA:O	2.17	0.45
1:Jq:28:THR:HG21	1:Oq:87:GLU:CB	2.46	0.45
1:Oq:80:ILE:O	3:Xq:716:PRO:HD3	2.15	0.45
1:DM:36:VAL:O	1:DM:95:ALA:HB3	2.17	0.45
1:Dw:32:GLU:HG3	1:LM:83:ARG:NH2	2.32	0.45
1:BB:47:THR:HG23	1:IA:18:VAL:CG2	2.47	0.45
1:BD:41:VAL:HG13	1:IC:40:PHE:CD1	2.52	0.45
1:FE:24:ALA:HB2	1:FE:48:VAL:HG11	1.98	0.45
1:HB:8:ALA:HB3	1:HB:52:GLY:O	2.17	0.45
1:HD:8:ALA:HB3	1:HD:52:GLY:O	2.17	0.45
1:KC:35:LEU:HD12	1:KC:50:VAL:HG12	1.98	0.45
1:KC:80:ILE:CD1	3:YB:806:ILE:HG21	2.47	0.45
2:PB:4:MET:HE3	2:PB:29:GLU:HG3	1.99	0.45
2:PB:44:CYS:SG	2:PB:73:ILE:HG21	2.57	0.45
1:B2:41:VAL:HG13	1:I1:40:PHE:CD1	2.52	0.45
1:G5:68:CYS:HA	1:G5:71:VAL:HG12	1.99	0.45
1:H3:8:ALA:HB3	1:H3:52:GLY:O	2.17	0.45
1:I5:82:ALA:HB3	1:O5:30:ALA:O	2.17	0.45
2:P4:14:ASN:O	2:P5:42:ILE:HD12	2.17	0.45
1:B7:47:THR:HG23	1:I6:18:VAL:CG2	2.47	0.45
1:C6:79:HIS:HD2	3:Y9:862:THR:OG1	1.99	0.45
1:G0:18:VAL:HB	1:G0:19:PRO:HD3	1.99	0.45
1:H7:80:ILE:HD12	3:Y0:848:ILE:HG21	1.99	0.45
1:H8:8:ALA:HB3	1:H8:52:GLY:O	2.17	0.45
1:H9:15:ARG:CZ	1:H9:76:VAL:HG22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J0:62:ARG:CZ	3:XR:624:SER:H	2.29	0.45
1:K6:35:LEU:HD12	1:K6:50:VAL:HG12	1.98	0.45
1:K8:35:LEU:HD12	1:K8:50:VAL:HG12	1.98	0.45
1:K8:80:ILE:CD1	3:Y7:806:ILE:HG21	2.47	0.45
3:Y6:867:ALA:O	3:Y6:868:ARG:C	2.60	0.45
3:Y7:867:ALA:O	3:Y7:868:ARG:C	2.60	0.45
1:HP:12:ILE:HG23	1:HP:75:LEU:HD12	1.99	0.45
1:HP:15:ARG:CZ	1:HP:76:VAL:HG22	2.47	0.45
1:HS:12:ILE:HG23	1:HS:75:LEU:HD12	1.99	0.45
3:YR:867:ALA:O	3:YR:868:ARG:C	2.60	0.45
1:AI:35:LEU:HD21	1:CI:91:ILE:HD13	1.98	0.45
1:FH:24:ALA:HB2	1:FH:48:VAL:HG11	1.98	0.45
1:HH:12:ILE:HG23	1:HH:75:LEU:HD12	1.99	0.45
1:HK:8:ALA:HB3	1:HK:52:GLY:O	2.17	0.45
1:JG:28:THR:HG21	1:OG:87:GLU:CB	2.46	0.45
2:PG:53:VAL:HB	2:PG:74:ILE:HD13	1.97	0.45
2:PH:44:CYS:SG	2:PH:73:ILE:HG21	2.57	0.45
3:YH:806:ILE:HG21	1:KI:80:ILE:CD1	2.47	0.45
1:AO:35:LEU:HD21	1:CO:91:ILE:HD13	1.98	0.45
1:BN:66:ASP:OD2	3:YM:719:LEU:HB3	2.17	0.45
1:GM:68:CYS:HA	1:GM:71:VAL:HG12	1.99	0.45
1:LL:32:GLU:OE1	1:Jl:7:ILE:HG12	2.17	0.45
2:PM:10:LEU:HD21	2:PN:77:ILE:HG12	1.98	0.45
3:YF:704:GLY:HA2	1:EF:79:HIS:CE1	2.52	0.45
1:Bi:47:THR:HG21	1:Ih:18:VAL:CG2	2.45	0.45
1:Ee:92:LEU:HD21	1:Dc:21:ILE:HG21	1.99	0.45
1:Ge:68:CYS:HA	1:Ge:71:VAL:HG12	1.99	0.45
1:Hh:15:ARG:CZ	1:Hh:76:VAL:HG22	2.47	0.45
1:Kh:35:LEU:HD12	1:Kh:50:VAL:HG12	1.98	0.45
1:AX:35:LEU:HD21	1:CX:91:ILE:HD13	1.98	0.45
1:AY:25:ASP:HA	1:CY:88:VAL:HG21	1.98	0.45
1:DV:9:LEU:HG	1:DV:11:MET:HE2	1.99	0.45
1:FV:24:ALA:HB2	1:FV:48:VAL:HG11	1.98	0.45
1:FZ:24:ALA:HB2	1:FZ:48:VAL:HG11	1.98	0.45
1:GW:58:ASN:O	1:GW:62:ARG:HG3	2.16	0.45
1:HV:15:ARG:CZ	1:HV:76:VAL:HG22	2.47	0.45
1:HW:12:ILE:HG23	1:HW:75:LEU:HD12	1.99	0.45
1:HY:8:ALA:HB3	1:HY:52:GLY:O	2.17	0.45
1:IW:82:ALA:HB3	1:OW:30:ALA:O	2.17	0.45
1:IZ:82:ALA:HB3	1:OZ:30:ALA:O	2.17	0.45
1:JZ:28:THR:HG21	1:OZ:87:GLU:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PY:4:MET:HE3	2:PY:29:GLU:HG3	1.99	0.45
2:PY:14:ASN:O	2:PZ:42:ILE:HD12	2.17	0.45
1:Da:9:LEU:HG	1:Da:11:MET:HE2	1.99	0.45
1:EU:85:HIS:CE1	1:DH:28:THR:HG22	2.51	0.45
1:Fa:24:ALA:HB2	1:Fa:48:VAL:HG11	1.98	0.45
1:HU:8:ALA:HB3	1:HU:52:GLY:O	2.17	0.45
1:HU:12:ILE:HG23	1:HU:75:LEU:HD12	1.99	0.45
1:Kc:35:LEU:HD12	1:Kc:50:VAL:HG12	1.97	0.45
1:La:83:ARG:NE	1:DH:32:GLU:HG3	2.31	0.45
2:Pa:4:MET:HE3	2:Pa:29:GLU:HG3	1.99	0.45
2:PU:44:CYS:SG	2:PU:73:ILE:HG21	2.57	0.45
1:Bv:91:ILE:HD11	1:Iu:21:ILE:HD13	1.99	0.45
1:Ct:29:LYS:HE2	2:Px:45:ILE:CG2	2.47	0.45
1:Ct:29:LYS:HE2	2:Px:45:ILE:HG22	1.99	0.45
1:Et:11:MET:HB3	1:Dr:18:VAL:CG2	2.47	0.45
1:Gw:68:CYS:HA	1:Gw:71:VAL:HG12	1.99	0.45
1:Iw:82:ALA:HB3	1:Ow:30:ALA:O	2.17	0.45
1:Jt:61:VAL:HG12	3:Xs:627:VAL:HG12	1.98	0.45
1:Kv:58:ASN:OD1	3:Yu:802:VAL:CG1	2.65	0.45
2:Pu:44:CYS:SG	2:Pu:73:ILE:HG21	2.57	0.45
2:Pv:4:MET:HE3	2:Pv:29:GLU:HG3	1.99	0.45
1:Ak:25:ASP:HA	1:Ck:88:VAL:HG21	1.99	0.45
1:Ak:35:LEU:HD21	1:Ck:91:ILE:HD13	1.98	0.45
1:Bl:41:VAL:HG13	1:Ik:40:PHE:CD1	2.52	0.45
1:Cm:73:ASP:OD2	1:Hl:45:TYR:OH	2.18	0.45
2:Po:44:CYS:SG	2:Po:73:ILE:HG21	2.57	0.45
1:Ap:96:PRO:O	1:Ap:97:GLN:C	2.60	0.45
1:As:35:LEU:HD21	1:Cs:91:ILE:HD13	1.98	0.45
1:Br:66:ASP:OD2	3:Yq:719:LEU:HB3	2.17	0.45
1:Jr:28:THR:HG21	1:Or:87:GLU:CB	2.46	0.45
2:Pp:44:CYS:SG	2:Pp:73:ILE:HG21	2.57	0.45
2:Pr:4:MET:HE3	2:Pr:29:GLU:HG3	1.99	0.45
1:D7:55:GLY:HA2	3:Xw:643:TYR:HH	1.74	0.45
1:Jv:9:LEU:HD11	1:Jv:49:LEU:HD23	1.99	0.45
1:Dn:49:LEU:HD12	1:Dn:93:PRO:HD2	1.99	0.45
1:Dh:33:VAL:HG11	1:Dh:57:VAL:HA	1.99	0.45
1:D6:9:LEU:HG	1:D6:11:MET:HE2	1.99	0.45
1:DA:9:LEU:HG	1:DA:11:MET:HE2	1.99	0.45
1:DE:9:LEU:HG	1:DE:11:MET:HE2	1.99	0.45
1:FA:24:ALA:HB2	1:FA:48:VAL:HG11	1.98	0.45
1:HB:12:ILE:HG23	1:HB:75:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HC:8:ALA:HB3	1:HC:52:GLY:O	2.17	0.45
1:HE:8:ALA:HB3	1:HE:52:GLY:O	2.17	0.45
1:IA:82:ALA:HB3	1:OA:30:ALA:O	2.17	0.45
1:JA:28:THR:HG21	1:OA:87:GLU:CB	2.46	0.45
1:LD:83:ARG:CZ	1:Dq:32:GLU:HA	2.47	0.45
1:MB:28:THR:O	1:Mv:83:ARG:NH1	2.46	0.45
1:D3:25:ASP:HA	1:Eb:88:VAL:HG21	1.98	0.45
1:D5:36:VAL:O	1:D5:95:ALA:HB3	2.17	0.45
1:H2:80:ILE:HD12	3:Y5:848:ILE:HG21	1.99	0.45
1:A6:25:ASP:HA	1:C6:88:VAL:HG21	1.98	0.45
1:C9:29:LYS:O	2:P8:9:THR:CG2	2.65	0.45
1:D0:79:HIS:CD2	3:XR:617:SER:C	2.94	0.45
1:H0:8:ALA:HB3	1:H0:52:GLY:O	2.17	0.45
1:H9:12:ILE:HG23	1:H9:75:LEU:HD12	1.99	0.45
1:K9:35:LEU:HD12	1:K9:50:VAL:HG12	1.98	0.45
1:AQ:25:ASP:HA	1:CQ:88:VAL:HG21	1.99	0.45
1:AR:25:ASP:HA	1:CR:88:VAL:HG21	1.99	0.45
1:FR:24:ALA:HB2	1:FR:48:VAL:HG11	1.98	0.45
1:GP:68:CYS:HA	1:GP:71:VAL:HG12	1.99	0.45
1:HQ:8:ALA:HB3	1:HQ:52:GLY:O	2.17	0.45
1:KP:35:LEU:HD12	1:KP:50:VAL:HG12	1.98	0.45
2:PP:4:MET:HE3	2:PP:29:GLU:HG3	1.99	0.45
1:BJ:41:VAL:HG13	1:II:40:PHE:CD1	2.52	0.45
1:DK:9:LEU:HG	1:DK:11:MET:HE2	1.99	0.45
1:FG:68:CYS:SG	1:FG:75:LEU:HD13	2.56	0.45
1:FK:24:ALA:HB2	1:FK:48:VAL:HG11	1.98	0.45
1:HJ:8:ALA:HB3	1:HJ:52:GLY:O	2.17	0.45
1:HK:12:ILE:HG23	1:HK:75:LEU:HD12	1.99	0.45
1:DL:36:VAL:O	1:DL:95:ALA:HB3	2.17	0.45
1:GL:68:CYS:HA	1:GL:71:VAL:HG12	1.99	0.45
1:GN:68:CYS:HA	1:GN:71:VAL:HG12	1.99	0.45
1:HL:12:ILE:HG23	1:HL:75:LEU:HD12	1.99	0.45
1:HN:8:ALA:HB3	1:HN:52:GLY:O	2.17	0.45
1:HO:12:ILE:HG23	1:HO:75:LEU:HD12	1.99	0.45
3:YF:867:ALA:O	3:YF:868:ARG:C	2.60	0.45
1:Bh:41:VAL:HG13	1:Ig:40:PHE:CD1	2.52	0.45
1:Bh:66:ASP:OD2	3:Yg:719:LEU:HB2	2.16	0.45
1:Bh:91:ILE:HD12	1:Ig:21:ILE:CD1	2.45	0.45
1:Ch:29:LYS:O	2:Pg:9:THR:CG2	2.65	0.45
1:Dg:9:LEU:HG	1:Dg:11:MET:HE2	1.99	0.45
1:Hf:15:ARG:CZ	1:Hf:76:VAL:HG22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hg:12:ILE:HG23	1:Hg:75:LEU:HD12	1.99	0.45
1:Hg:15:ARG:CZ	1:Hg:76:VAL:HG22	2.47	0.45
1:Ih:82:ALA:HB3	1:Oh:30:ALA:O	2.17	0.45
2:Pe:4:MET:HE3	2:Pe:29:GLU:HG3	1.99	0.45
2:Pe:44:CYS:SG	2:Pe:73:ILE:HG21	2.57	0.45
2:Pg:44:CYS:SG	2:Pg:73:ILE:HG21	2.57	0.45
1:DZ:35:LEU:CD2	1:Ed:91:ILE:CG2	2.95	0.45
1:OY:87:GLU:CB	1:JY:28:THR:HG21	2.46	0.45
2:PX:4:MET:HE3	2:PX:29:GLU:HG3	1.99	0.45
3:YW:734:ALA:O	3:YW:735:ARG:C	2.60	0.45
1:Bb:11:MET:HB3	1:Ia:18:VAL:CG2	2.46	0.45
1:Hb:12:ILE:HG23	1:Hb:75:LEU:HD12	1.99	0.45
1:Kb:35:LEU:HD12	1:Kb:50:VAL:HG12	1.98	0.45
1:La:79:HIS:CE1	3:Xa:640:GLY:HA2	2.52	0.45
2:Pc:14:ASN:ND2	2:Pd:76:ILE:HD12	2.31	0.45
2:Pc:44:CYS:SG	2:Pc:73:ILE:HG21	2.57	0.45
1:Dv:9:LEU:HG	1:Dv:11:MET:HE2	1.99	0.45
1:Dx:72:GLY:CA	1:Ek:77:ALA:HB2	2.45	0.45
1:Hu:8:ALA:HB3	1:Hu:52:GLY:O	2.17	0.45
1:Hu:12:ILE:HG23	1:Hu:75:LEU:HD12	1.99	0.45
1:Hw:12:ILE:HG23	1:Hw:75:LEU:HD12	1.99	0.45
3:Yx:867:ALA:O	3:Yx:868:ARG:C	2.60	0.45
1:Bn:41:VAL:HG13	1:Im:40:PHE:CD1	2.52	0.45
1:Hm:12:ILE:HG23	1:Hm:75:LEU:HD12	1.99	0.45
1:Hn:15:ARG:CZ	1:Hn:76:VAL:HG22	2.47	0.45
1:Ik:82:ALA:HB3	1:Ok:30:ALA:O	2.17	0.45
1:In:82:ALA:HB3	1:On:30:ALA:O	2.17	0.45
3:Yl:806:ILE:HG21	1:Km:80:ILE:CD1	2.47	0.45
1:Ap:35:LEU:HD21	1:Cp:91:ILE:HD13	1.98	0.45
1:Ds:9:LEU:HG	1:Ds:11:MET:HE2	1.99	0.45
1:Fr:24:ALA:HB2	1:Fr:48:VAL:HG11	1.98	0.45
1:Fs:24:ALA:HB2	1:Fs:48:VAL:HG11	1.98	0.45
1:Ij:82:ALA:HB3	1:Oj:30:ALA:O	2.17	0.45
1:Ir:82:ALA:HB3	1:Or:30:ALA:O	2.17	0.45
1:Kr:58:ASN:OD1	3:Yq:802:VAL:CG1	2.65	0.45
2:Pp:4:MET:HE3	2:Pp:29:GLU:HG3	1.99	0.45
2:Pq:4:MET:HE3	2:Pq:29:GLU:HG3	1.99	0.45
3:Xp:691:ILE:H	3:Xp:691:ILE:HG13	1.42	0.45
1:D4:27:MET:HG2	1:D4:60:ALA:O	2.17	0.45
1:DR:9:LEU:HG	1:DR:11:MET:HE2	1.99	0.45
1:Fh:16:GLY:HA2	1:Dh:13:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Df:9:LEU:HG	1:Df:11:MET:HE2	1.99	0.45
1:FF:49:LEU:HD13	1:FF:93:PRO:CG	2.47	0.45
1:Dl:9:LEU:HG	1:Dl:11:MET:HE2	1.99	0.45
1:EF:35:LEU:HA	1:EF:50:VAL:HG12	1.97	0.45
1:Lm:11:MET:HB3	1:Lm:49:LEU:HD23	1.98	0.45
1:AB:25:ASP:CA	1:CB:88:VAL:HG21	2.47	0.45
1:AB:35:LEU:HD21	1:CB:91:ILE:HD13	1.98	0.45
1:DC:36:VAL:O	1:DC:95:ALA:HB3	2.17	0.45
1:FC:68:CYS:SG	1:FC:75:LEU:HD13	2.56	0.45
1:GE:68:CYS:HA	1:GE:71:VAL:HG12	1.99	0.45
1:HA:8:ALA:HB3	1:HA:52:GLY:O	2.17	0.45
1:HD:12:ILE:HG23	1:HD:75:LEU:HD12	1.99	0.45
1:HE:15:ARG:CZ	1:HE:76:VAL:HG22	2.47	0.45
1:ID:82:ALA:HB3	1:OD:30:ALA:O	2.17	0.45
1:A1:35:LEU:HD21	1:C1:91:ILE:HD13	1.98	0.45
1:C1:79:HIS:HD2	3:Y4:862:THR:OG1	1.99	0.45
1:C4:29:LYS:O	2:P3:9:THR:CG2	2.65	0.45
1:G1:68:CYS:HA	1:G1:71:VAL:HG12	1.99	0.45
1:G4:68:CYS:HA	1:G4:71:VAL:HG12	1.99	0.45
1:H1:15:ARG:CZ	1:H1:76:VAL:HG22	2.47	0.45
1:A0:25:ASP:HA	1:C0:88:VAL:HG21	1.99	0.45
1:B9:41:VAL:HG13	1:I8:40:PHE:CD1	2.52	0.45
1:C6:29:LYS:HE2	2:P0:45:ILE:HG22	1.99	0.45
1:G9:68:CYS:HA	1:G9:71:VAL:HG12	1.99	0.45
1:H0:12:ILE:HG23	1:H0:75:LEU:HD12	1.99	0.45
1:J7:28:THR:HG21	1:O7:87:GLU:CB	2.46	0.45
2:P9:14:ASN:O	2:P0:42:ILE:HD12	2.17	0.45
3:X6:621:VAL:CG2	1:DQ:58:ASN:HD22	2.14	0.45
3:X6:622:ASP:O	1:JQ:62:ARG:CD	2.65	0.45
3:Y7:724:ILE:HG13	3:Y7:727:THR:HG23	1.98	0.45
1:BQ:47:THR:HG23	1:IP:18:VAL:CG2	2.47	0.45
1:DQ:36:VAL:O	1:DQ:95:ALA:HB3	2.17	0.45
1:JS:28:THR:HG21	1:OS:87:GLU:CB	2.46	0.45
1:DG:9:LEU:HG	1:DG:11:MET:HE2	1.99	0.45
1:EK:54:THR:HG22	3:YK:707:ILE:HG12	1.98	0.45
1:FG:24:ALA:HB2	1:FG:48:VAL:HG11	1.98	0.45
1:FJ:18:VAL:HG23	1:DJ:13:GLU:OE1	2.17	0.45
1:HH:8:ALA:HB3	1:HH:52:GLY:O	2.17	0.45
1:HI:8:ALA:HB3	1:HI:52:GLY:O	2.17	0.45
1:HI:12:ILE:HG23	1:HI:75:LEU:HD12	1.99	0.45
1:HK:15:ARG:CZ	1:HK:76:VAL:HG22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IG:82:ALA:HB3	1:OG:30:ALA:O	2.17	0.45
1:IJ:82:ALA:HB3	1:OJ:30:ALA:O	2.17	0.45
1:KJ:35:LEU:HD12	1:KJ:50:VAL:HG12	1.98	0.45
3:YH:734:ALA:O	3:YH:735:ARG:C	2.60	0.45
1:CM:29:LYS:O	2:PL:9:THR:CG2	2.65	0.45
1:DN:36:VAL:O	1:DN:95:ALA:HB3	2.17	0.45
1:HL:8:ALA:HB3	1:HL:52:GLY:O	2.17	0.45
1:HM:15:ARG:CZ	1:HM:76:VAL:HG22	2.47	0.45
1:HO:15:ARG:CZ	1:HO:76:VAL:HG22	2.47	0.45
1:NO:27:MET:HE3	1:NO:50:VAL:HG22	1.99	0.45
2:PM:4:MET:HE3	2:PM:29:GLU:HG3	1.99	0.45
1:Ie:82:ALA:HB3	1:Oe:30:ALA:O	2.17	0.45
1:CY:29:LYS:O	2:PX:9:THR:CG2	2.65	0.45
1:HW:15:ARG:CZ	1:HW:76:VAL:HG22	2.47	0.45
1:KX:80:ILE:CD1	3:YW:806:ILE:HG21	2.47	0.45
1:KZ:35:LEU:HD12	1:KZ:50:VAL:HG12	1.98	0.45
2:PW:4:MET:HE3	2:PW:29:GLU:HG3	1.99	0.45
1:Bc:66:ASP:OD2	3:Yb:719:LEU:HB3	2.17	0.45
1:Da:36:VAL:O	1:Da:95:ALA:HB3	2.17	0.45
1:Ea:91:ILE:HG21	1:DS:35:LEU:HD21	1.99	0.45
1:Fd:24:ALA:HB2	1:Fd:48:VAL:HG11	1.98	0.45
1:Ib:82:ALA:HB3	1:Ob:30:ALA:O	2.17	0.45
1:Bw:11:MET:HB3	1:Iv:18:VAL:CG2	2.45	0.45
1:Bx:11:MET:HB3	1:Iw:18:VAL:CG2	2.46	0.45
1:Fv:24:ALA:HB2	1:Fv:48:VAL:HG11	1.98	0.45
1:Bo:47:THR:HG21	1:In:18:VAL:CG2	2.45	0.45
1:Do:28:THR:CG2	1:Es:87:GLU:OE1	2.64	0.45
1:Hl:15:ARG:CZ	1:Hl:76:VAL:HG22	2.47	0.45
2:Pk:4:MET:HE3	2:Pk:29:GLU:HG3	1.99	0.45
3:Xk:691:ILE:H	3:Xk:691:ILE:HG13	1.48	0.45
3:Xo:714:THR:HA	3:Xo:718:MET:HG2	1.99	0.45
1:Bs:41:VAL:HG13	1:Ir:40:PHE:CD1	2.52	0.45
1:Cj:18:VAL:HG22	1:Hs:11:MET:CB	2.47	0.45
1:Cq:29:LYS:O	2:Pp:9:THR:CG2	2.65	0.45
1:Dp:36:VAL:O	1:Dp:95:ALA:HB3	2.17	0.45
1:Ep:85:HIS:CG	1:Dh:28:THR:HG21	2.48	0.45
1:Hj:80:ILE:HD12	3:Yr:848:ILE:HG21	1.99	0.45
1:Hq:15:ARG:CZ	1:Hq:76:VAL:HG22	2.47	0.45
1:Hs:15:ARG:CZ	1:Hs:76:VAL:HG22	2.47	0.45
2:Pj:4:MET:HE3	2:Pj:29:GLU:HG3	1.99	0.45
1:D4:33:VAL:HB	1:D4:50:VAL:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DR:36:VAL:O	1:DR:95:ALA:HB3	2.17	0.45
1:FY:18:VAL:CG2	1:DY:13:GLU:HB2	2.47	0.45
1:DI:96:PRO:O	1:DI:97:GLN:C	2.58	0.45
1:D6:36:VAL:O	1:D6:95:ALA:HB3	2.17	0.45
1:Df:36:VAL:O	1:Df:95:ALA:HB3	2.17	0.45
1:DE:28:THR:O	1:L2:83:ARG:NH1	2.49	0.44
1:FA:68:CYS:SG	1:FA:75:LEU:HD13	2.56	0.44
1:KD:35:LEU:HD12	1:KD:50:VAL:HG12	1.98	0.44
1:B2:11:MET:HB3	1:I1:18:VAL:CG2	2.45	0.44
1:C5:18:VAL:HG22	1:H4:11:MET:CB	2.47	0.44
1:D2:9:LEU:HG	1:D2:11:MET:HE2	1.99	0.44
1:H1:12:ILE:HG23	1:H1:75:LEU:HD12	1.99	0.44
1:H3:15:ARG:CZ	1:H3:76:VAL:HG22	2.47	0.44
1:H3:62:ARG:HG3	3:Y1:848:ILE:CD1	2.28	0.44
1:O4:85:HIS:HD1	1:O4:87:GLU:H	1.65	0.44
2:P1:4:MET:HE3	2:P1:29:GLU:HG3	1.99	0.44
2:P4:4:MET:HE3	2:P4:29:GLU:HG3	1.99	0.44
2:P4:44:CYS:SG	2:P4:73:ILE:HG21	2.57	0.44
1:F6:24:ALA:HB2	1:F6:48:VAL:HG11	1.98	0.44
2:P9:4:MET:HE3	2:P9:29:GLU:HG3	1.99	0.44
2:P0:44:CYS:SG	2:P0:73:ILE:HG21	2.57	0.44
1:BQ:41:VAL:HG13	1:IP:40:PHE:CD1	2.52	0.44
1:BR:41:VAL:HG13	1:IQ:40:PHE:HD1	1.83	0.44
1:FS:25:ASP:HA	1:DS:88:VAL:HG21	1.99	0.44
1:FT:24:ALA:HB2	1:FT:48:VAL:HG11	1.98	0.44
1:HQ:12:ILE:HG23	1:HQ:75:LEU:HD12	1.99	0.44
1:IT:82:ALA:HB3	1:OT:30:ALA:O	2.17	0.44
1:AH:25:ASP:CA	1:CH:88:VAL:HG21	2.48	0.44
1:AH:35:LEU:HD21	1:CH:91:ILE:HD13	1.98	0.44
1:GK:68:CYS:HA	1:GK:71:VAL:HG12	1.99	0.44
1:HG:8:ALA:HB3	1:HG:52:GLY:O	2.17	0.44
1:HI:15:ARG:CZ	1:HI:76:VAL:HG22	2.47	0.44
1:HJ:12:ILE:HG23	1:HJ:75:LEU:HD12	1.99	0.44
2:PJ:14:ASN:O	2:PK:42:ILE:HD12	2.17	0.44
1:AM:25:ASP:CA	1:CM:88:VAL:HG21	2.48	0.44
1:AM:25:ASP:HA	1:CM:88:VAL:HG21	1.98	0.44
1:BM:41:VAL:HG13	1:IL:40:PHE:CD1	2.52	0.44
1:BO:11:MET:HB3	1:IN:18:VAL:CG2	2.45	0.44
2:PO:4:MET:HE3	2:PO:29:GLU:HG3	1.99	0.44
1:Ai:35:LEU:HD21	1:Ci:91:ILE:HD13	1.98	0.44
1:De:36:VAL:O	1:De:95:ALA:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Je:28:THR:HG21	1:Oe:87:GLU:CB	2.46	0.44
1:Kg:80:ILE:CD1	3:Yf:806:ILE:HG21	2.47	0.44
2:Pi:4:MET:HE3	2:Pi:29:GLU:HG3	1.99	0.44
1:DX:36:VAL:O	1:DX:95:ALA:HB3	2.17	0.44
1:HY:12:ILE:HG23	1:HY:75:LEU:HD12	1.99	0.44
1:HY:15:ARG:CZ	1:HY:76:VAL:HG22	2.47	0.44
3:YX:867:ALA:O	3:YX:868:ARG:C	2.60	0.44
1:Nc:27:MET:HE3	1:Nc:50:VAL:CG2	2.48	0.44
3:Yc:867:ALA:O	3:Yc:868:ARG:C	2.60	0.44
1:Cx:18:VAL:HG22	1:Hw:11:MET:CB	2.47	0.44
1:Dt:9:LEU:HG	1:Dt:11:MET:HE2	1.99	0.44
1:Dv:36:VAL:O	1:Dv:95:ALA:HB3	2.17	0.44
1:Fu:24:ALA:HB2	1:Fu:48:VAL:HG11	1.98	0.44
1:Hx:12:ILE:HG23	1:Hx:75:LEU:HD12	1.99	0.44
1:Hx:80:ILE:HD12	3:Yv:848:ILE:HG21	1.99	0.44
2:Px:44:CYS:SG	2:Px:73:ILE:HG21	2.57	0.44
3:Yu:867:ALA:O	3:Yu:868:ARG:C	2.60	0.44
1:Am:25:ASP:HA	1:Cm:88:VAL:HG21	1.99	0.44
1:Cn:29:LYS:O	2:Pm:9:THR:CG2	2.65	0.44
1:Do:28:THR:HG22	1:Es:85:HIS:CE1	2.52	0.44
1:Eo:87:GLU:OE1	1:Ds:28:THR:CG2	2.66	0.44
1:Fn:25:ASP:HA	1:Dn:88:VAL:HG21	1.99	0.44
1:Hn:80:ILE:CD1	3:Yl:848:ILE:CG2	2.91	0.44
1:Ho:80:ILE:HD12	3:Ym:848:ILE:HG21	1.99	0.44
1:Jk:28:THR:HG21	1:Ok:87:GLU:CB	2.46	0.44
1:Kn:35:LEU:HD12	1:Kn:50:VAL:HG12	1.98	0.44
1:As:25:ASP:HA	1:Cs:88:VAL:HG21	1.99	0.44
1:Hj:15:ARG:CZ	1:Hj:76:VAL:HG22	2.47	0.44
2:Pq:10:LEU:HD21	2:Pr:77:ILE:HG12	1.98	0.44
1:DS:27:MET:HG2	1:DS:60:ALA:O	2.16	0.44
1:Dw:14:THR:HB	1:Dw:19:PRO:HB2	1.99	0.44
3:Xr:691:ILE:H	3:Xr:691:ILE:HG13	1.54	0.44
1:Db:33:VAL:HB	1:Db:50:VAL:HB	1.98	0.44
1:Db:38:ARG:NH1	1:E3:91:ILE:O	2.50	0.44
1:AA:25:ASP:CA	1:CA:88:VAL:HG21	2.48	0.44
1:AD:25:ASP:CA	1:CD:88:VAL:HG21	2.48	0.44
1:BC:79:HIS:HA	3:YB:725:THR:O	2.16	0.44
1:CE:18:VAL:HG22	1:HD:11:MET:CB	2.47	0.44
1:HC:15:ARG:CZ	1:HC:76:VAL:HG22	2.47	0.44
1:HD:15:ARG:CZ	1:HD:76:VAL:HG22	2.47	0.44
1:HE:12:ILE:HG23	1:HE:75:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:IB:82:ALA:HB3	1:OB:30:ALA:O	2.17	0.44
2:PC:14:ASN:ND2	2:PD:76:ILE:HD12	2.31	0.44
1:A4:25:ASP:CA	1:C4:88:VAL:HG21	2.48	0.44
1:A4:25:ASP:HA	1:C4:88:VAL:HG21	1.99	0.44
1:B3:41:VAL:HG13	1:I2:40:PHE:HD1	1.83	0.44
1:C1:29:LYS:HE2	2:P5:45:ILE:CG2	2.47	0.44
1:H4:15:ARG:CZ	1:H4:76:VAL:HG22	2.47	0.44
1:N1:27:MET:HE3	1:N1:50:VAL:HG22	2.00	0.44
1:N5:27:MET:HE3	1:N5:50:VAL:CG2	2.48	0.44
1:A6:25:ASP:CA	1:C6:88:VAL:HG21	2.48	0.44
1:A7:25:ASP:CA	1:C7:88:VAL:HG21	2.48	0.44
1:D0:36:VAL:O	1:D0:95:ALA:HB3	2.17	0.44
1:D8:36:VAL:O	1:D8:95:ALA:HB3	2.17	0.44
1:H6:8:ALA:HB3	1:H6:52:GLY:O	2.17	0.44
1:I8:82:ALA:HB3	1:O8:30:ALA:O	2.17	0.44
1:I9:82:ALA:HB3	1:O9:30:ALA:O	2.17	0.44
1:M0:28:THR:O	1:MR:83:ARG:NH1	2.45	0.44
1:O8:82:ALA:H	3:X8:716:PRO:HG2	1.82	0.44
2:P6:44:CYS:SG	2:P6:73:ILE:HG21	2.57	0.44
2:P0:4:MET:HE3	2:P0:29:GLU:HG3	1.99	0.44
1:AS:25:ASP:CA	1:CS:88:VAL:HG21	2.47	0.44
1:BQ:91:ILE:HD12	1:IP:21:ILE:CD1	2.45	0.44
1:BS:41:VAL:HG13	1:IR:40:PHE:CD1	2.52	0.44
1:DT:36:VAL:O	1:DT:95:ALA:HB3	2.17	0.44
1:HR:8:ALA:HB3	1:HR:52:GLY:O	2.17	0.44
1:IP:82:ALA:HB3	1:OP:30:ALA:O	2.17	0.44
1:KR:58:ASN:OD1	3:YQ:802:VAL:CG1	2.65	0.44
1:MT:29:LYS:NZ	1:LH:29:LYS:O	2.40	0.44
2:PS:14:ASN:HD21	2:PT:76:ILE:H	1.64	0.44
3:YQ:867:ALA:O	3:YQ:868:ARG:C	2.60	0.44
1:AG:25:ASP:CA	1:CG:88:VAL:HG21	2.48	0.44
1:EK:87:GLU:OE1	1:DO:28:THR:CG2	2.66	0.44
1:FI:25:ASP:HA	1:DI:88:VAL:HG21	1.99	0.44
1:FJ:71:VAL:HG22	3:Xn:617:SER:OG	2.16	0.44
1:HJ:15:ARG:CZ	1:HJ:76:VAL:HG22	2.47	0.44
1:II:82:ALA:HB3	1:OI:30:ALA:O	2.17	0.44
2:PI:4:MET:HE3	2:PI:29:GLU:HG3	1.99	0.44
3:XG:634:GLU:HG3	3:XG:635:GLN:HG3	2.00	0.44
3:XK:622:ASP:O	1:Jm:62:ARG:NH1	2.44	0.44
3:YI:867:ALA:O	3:YI:868:ARG:C	2.60	0.44
1:EM:91:ILE:CG2	1:D6:35:LEU:CD2	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GO:68:CYS:HA	1:GO:71:VAL:HG12	1.99	0.44
1:NN:27:MET:HE3	1:NN:50:VAL:CG2	2.48	0.44
3:YF:716:PRO:HD2	1:NL:80:ILE:O	2.17	0.44
1:Di:36:VAL:O	1:Di:95:ALA:HB3	2.17	0.44
1:Gh:68:CYS:HA	1:Gh:71:VAL:HG12	1.99	0.44
1:Hh:80:ILE:CD1	3:Yf:848:ILE:CG2	2.91	0.44
1:Ig:82:ALA:HB3	1:Og:30:ALA:O	2.17	0.44
1:AV:25:ASP:HA	1:CV:88:VAL:HG21	1.99	0.44
1:DV:36:VAL:O	1:DV:95:ALA:HB3	2.17	0.44
1:EW:91:ILE:CG2	1:Dj:35:LEU:CD2	2.95	0.44
1:HZ:8:ALA:HB3	1:HZ:52:GLY:O	2.17	0.44
1:NW:27:MET:HE3	1:NW:50:VAL:CG2	2.48	0.44
2:PW:44:CYS:SG	2:PW:73:ILE:HG21	2.57	0.44
3:YV:867:ALA:O	3:YV:868:ARG:C	2.60	0.44
1:Ad:25:ASP:CA	1:Cd:88:VAL:HG21	2.47	0.44
1:Dd:9:LEU:HG	1:Dd:11:MET:HE2	1.99	0.44
1:FU:24:ALA:HB2	1:FU:48:VAL:HG11	1.98	0.44
1:GU:87:GLU:H	1:GU:87:GLU:HG2	1.30	0.44
1:Hc:15:ARG:CZ	1:Hc:76:VAL:HG22	2.47	0.44
1:Id:82:ALA:HB3	1:Od:30:ALA:O	2.17	0.44
1:Na:80:ILE:O	3:YU:716:PRO:HD2	2.17	0.44
1:Aw:35:LEU:HD21	1:Cw:91:ILE:HD13	1.98	0.44
1:Et:88:VAL:HG21	1:Dr:25:ASP:CA	2.47	0.44
1:Ft:24:ALA:HB2	1:Ft:48:VAL:HG11	1.98	0.44
1:Nx:27:MET:HE3	1:Nx:50:VAL:CG2	2.48	0.44
1:Bn:91:ILE:HD12	1:Im:21:ILE:CD1	2.46	0.44
1:Ho:15:ARG:CZ	1:Ho:76:VAL:HG22	2.47	0.44
1:Im:82:ALA:HB3	1:Om:30:ALA:O	2.17	0.44
2:Po:4:MET:HE3	2:Po:29:GLU:HG3	1.99	0.44
1:As:25:ASP:CA	1:Cs:88:VAL:HG21	2.48	0.44
1:Bq:47:THR:HG23	1:Ip:18:VAL:CG2	2.47	0.44
1:Gr:68:CYS:HA	1:Gr:71:VAL:HG12	1.99	0.44
1:Hq:12:ILE:HG23	1:Hq:75:LEU:HD12	1.99	0.44
1:Kr:80:ILE:CD1	3:Yq:806:ILE:HG21	2.47	0.44
1:Nj:27:MET:HE3	1:Nj:50:VAL:CG2	2.48	0.44
2:Pj:44:CYS:SG	2:Pj:73:ILE:HG21	2.57	0.44
3:Yp:867:ALA:O	3:Yp:868:ARG:C	2.60	0.44
3:Ys:867:ALA:O	3:Ys:868:ARG:C	2.60	0.44
3:X8:624:SER:H	1:Jv:62:ARG:HD3	1.83	0.44
1:AC:25:ASP:CA	1:CC:88:VAL:HG21	2.48	0.44
1:FC:24:ALA:HB2	1:FC:48:VAL:HG11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GC:68:CYS:HA	1:GC:71:VAL:HG12	1.99	0.44
1:HC:12:ILE:HG23	1:HC:75:LEU:HD12	1.99	0.44
1:IC:82:ALA:HB3	1:OC:30:ALA:O	2.17	0.44
1:LC:28:THR:O	1:Ju:83:ARG:NH1	2.50	0.44
2:PC:4:MET:HE3	2:PC:29:GLU:HG3	1.99	0.44
3:XE:693:THR:HG23	3:XE:694:PRO:HD2	1.99	0.44
3:YB:867:ALA:O	3:YB:868:ARG:C	2.60	0.44
3:YC:867:ALA:O	3:YC:868:ARG:C	2.60	0.44
1:A5:25:ASP:CA	1:C5:88:VAL:HG21	2.48	0.44
1:C1:29:LYS:HE2	2:P5:45:ILE:HG22	1.99	0.44
1:H4:8:ALA:HB3	1:H4:52:GLY:O	2.17	0.44
1:N4:27:MET:HE3	1:N4:50:VAL:CG2	2.48	0.44
1:F8:24:ALA:HB2	1:F8:48:VAL:HG11	1.98	0.44
1:H7:8:ALA:HB3	1:H7:52:GLY:O	2.17	0.44
1:H9:62:ARG:HG2	3:Y7:848:ILE:HD11	1.83	0.44
1:N8:27:MET:HE3	1:N8:50:VAL:HG22	2.00	0.44
3:Y0:867:ALA:O	3:Y0:868:ARG:C	2.60	0.44
1:AR:25:ASP:CA	1:CR:88:VAL:HG21	2.48	0.44
1:CP:29:LYS:HE2	2:PT:45:ILE:CG2	2.47	0.44
1:HS:8:ALA:HB3	1:HS:52:GLY:O	2.17	0.44
2:PP:44:CYS:SG	2:PP:73:ILE:HG21	2.57	0.44
2:PQ:44:CYS:SG	2:PQ:73:ILE:HG21	2.57	0.44
2:PR:44:CYS:SG	2:PR:73:ILE:HG21	2.57	0.44
1:AI:25:ASP:CA	1:CI:88:VAL:HG21	2.48	0.44
1:AJ:25:ASP:CA	1:CJ:88:VAL:HG21	2.48	0.44
1:BG:41:VAL:HG13	1:IK:40:PHE:HD1	1.80	0.44
1:CK:18:VAL:HG22	1:HJ:11:MET:CB	2.47	0.44
1:DK:35:LEU:CD2	1:EO:91:ILE:CG2	2.95	0.44
1:FH:79:HIS:HA	3:XH:725:THR:O	2.18	0.44
1:FI:68:CYS:SG	1:FI:75:LEU:HD13	2.56	0.44
1:IH:82:ALA:HB3	1:OH:30:ALA:O	2.17	0.44
2:PI:44:CYS:SG	2:PI:73:ILE:HG21	2.57	0.44
3:YH:802:VAL:CG1	1:KI:58:ASN:OD1	2.65	0.44
1:CF:18:VAL:HG22	1:HO:11:MET:CB	2.47	0.44
1:CL:29:LYS:HE2	2:PF:45:ILE:HG22	1.99	0.44
1:DL:28:THR:O	1:Lx:83:ARG:NH1	2.49	0.44
1:HM:8:ALA:HB3	1:HM:52:GLY:O	2.17	0.44
1:NM:27:MET:HE3	1:NM:50:VAL:CG2	2.48	0.44
2:PO:44:CYS:SG	2:PO:73:ILE:HG21	2.57	0.44
3:XF:637:LEU:HD23	3:XF:649:THR:HG22	1.98	0.44
1:Bg:41:VAL:HG13	1:If:40:PHE:HD1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bi:91:ILE:HD12	1:Ih:21:ILE:CD1	2.44	0.44
1:Hf:12:ILE:HG23	1:Hf:75:LEU:HD12	1.99	0.44
1:Hi:15:ARG:CZ	1:Hi:76:VAL:HG22	2.47	0.44
1:Hi:80:ILE:HD12	3:Yg:848:ILE:HG21	1.99	0.44
1:Li:29:LYS:O	1:Mp:29:LYS:NZ	2.38	0.44
2:Pf:44:CYS:SG	2:Pf:73:ILE:HG21	2.57	0.44
3:Xg:693:THR:HG23	3:Xg:694:PRO:HD2	1.99	0.44
1:AW:35:LEU:HD21	1:CW:91:ILE:HD13	1.98	0.44
1:BY:47:THR:HG23	1:IX:18:VAL:CG2	2.47	0.44
1:DW:9:LEU:HG	1:DW:11:MET:HE2	1.99	0.44
1:DW:28:THR:HG21	1:Ej:87:GLU:OE1	2.16	0.44
1:FW:79:HIS:HA	3:XW:725:THR:O	2.18	0.44
1:Aa:25:ASP:CA	1:Ca:88:VAL:HG21	2.48	0.44
1:Ac:25:ASP:CA	1:Cc:88:VAL:HG21	2.48	0.44
2:Pc:4:MET:HE3	2:Pc:29:GLU:HG3	1.99	0.44
3:Yb:867:ALA:O	3:Yb:868:ARG:C	2.60	0.44
3:YU:867:ALA:O	3:YU:868:ARG:C	2.60	0.44
1:At:25:ASP:CA	1:Ct:88:VAL:HG21	2.48	0.44
1:Ax:25:ASP:CA	1:Cx:88:VAL:HG21	2.48	0.44
1:Cw:29:LYS:O	2:Pv:9:THR:CG2	2.65	0.44
1:Dx:36:VAL:O	1:Dx:95:ALA:HB3	2.17	0.44
1:Ev:88:VAL:CG2	1:D7:25:ASP:CA	2.57	0.44
1:Ht:8:ALA:HB3	1:Ht:52:GLY:O	2.17	0.44
1:Hx:15:ARG:CZ	1:Hx:76:VAL:HG22	2.47	0.44
1:Nv:27:MET:HE3	1:Nv:50:VAL:CG2	2.48	0.44
2:Px:4:MET:HE3	2:Px:29:GLU:HG3	1.99	0.44
3:Xu:693:THR:HG23	3:Xu:694:PRO:HD2	1.99	0.44
1:Ao:35:LEU:HD21	1:Co:91:ILE:HD13	1.98	0.44
1:Bm:41:VAL:HG13	1:Il:40:PHE:HD1	1.83	0.44
1:Bo:91:ILE:HD12	1:In:21:ILE:CD1	2.44	0.44
1:Ck:29:LYS:HE2	2:Po:45:ILE:HG22	1.98	0.44
1:Dk:36:VAL:O	1:Dk:95:ALA:HB3	2.17	0.44
1:Do:36:VAL:O	1:Do:95:ALA:HB3	2.17	0.44
1:Hl:12:ILE:HG23	1:Hl:75:LEU:HD12	1.99	0.44
1:Il:82:ALA:HB3	1:Ol:30:ALA:O	2.17	0.44
3:Yl:734:ALA:O	3:Yl:735:ARG:C	2.60	0.44
3:Ym:867:ALA:O	3:Ym:868:ARG:C	2.60	0.44
1:Ar:35:LEU:HD21	1:Cr:91:ILE:HD13	1.98	0.44
1:Bs:47:THR:HG23	1:Ir:18:VAL:CG2	2.47	0.44
1:Cp:29:LYS:HE2	2:Pj:45:ILE:HG22	1.99	0.44
1:Ds:36:VAL:O	1:Ds:95:ALA:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hr:8:ALA:HB3	1:Hr:52:GLY:O	2.17	0.44
1:Ns:27:MET:HE3	1:Ns:50:VAL:HG22	2.00	0.44
3:Xj:637:LEU:HD23	3:Xj:649:THR:HG22	1.98	0.44
3:Xh:693:THR:HG23	3:Xh:694:PRO:HD2	1.99	0.44
1:Dn:89:GLU:HB3	1:Dn:94:LYS:HD3	2.00	0.44
1:NL:12:ILE:HG23	1:NL:75:LEU:HD12	2.00	0.44
1:Dj:9:LEU:HG	1:Dj:11:MET:HE2	1.99	0.44
1:DY:57:VAL:HG12	1:DY:80:ILE:HG23	1.99	0.44
1:Db:9:LEU:HD11	1:Db:49:LEU:HB3	1.99	0.44
1:Df:58:ASN:CG	1:Df:80:ILE:CD1	2.90	0.44
1:NI:27:MET:HE3	1:NI:50:VAL:HG22	2.00	0.44
1:Lm:49:LEU:HD13	1:Lm:93:PRO:HD2	1.99	0.44
1:AE:25:ASP:CA	1:CE:88:VAL:HG21	2.48	0.44
1:BC:41:VAL:HG13	1:IB:40:PHE:HD1	1.83	0.44
1:CE:18:VAL:HG13	1:HD:11:MET:HE3	2.00	0.44
1:DB:80:ILE:N	3:Xv:617:SER:O	2.51	0.44
1:EC:54:THR:HG22	3:YC:707:ILE:HG12	2.00	0.44
1:HA:12:ILE:HG23	1:HA:75:LEU:HD12	1.99	0.44
2:PB:10:LEU:HD21	2:PC:77:ILE:HG12	1.98	0.44
2:PC:44:CYS:SG	2:PC:73:ILE:HG21	2.57	0.44
3:XC:624:SER:H	1:Ju:62:ARG:NE	2.15	0.44
3:XE:616:ILE:CG2	1:Dg:80:ILE:HD11	2.48	0.44
1:A5:35:LEU:HD21	1:C5:91:ILE:HD13	1.98	0.44
1:B3:91:ILE:HD11	1:I2:21:ILE:HD13	1.98	0.44
1:B4:41:VAL:HG13	1:I3:40:PHE:CD1	2.52	0.44
1:D2:36:VAL:O	1:D2:95:ALA:HB3	2.17	0.44
1:D3:18:VAL:HG11	1:Eb:77:ALA:HB1	1.99	0.44
1:H2:8:ALA:HB3	1:H2:52:GLY:O	2.17	0.44
1:N2:12:ILE:HG23	1:N2:75:LEU:HD12	2.00	0.44
2:P5:44:CYS:SG	2:P5:73:ILE:HG21	2.57	0.44
1:B7:41:VAL:HG13	1:I6:40:PHE:CD1	2.52	0.44
1:D8:9:LEU:HG	1:D8:11:MET:HE2	1.99	0.44
1:E7:79:HIS:HA	3:Y7:703:THR:O	2.17	0.44
1:I6:82:ALA:HB3	1:O6:30:ALA:O	2.17	0.44
1:N8:27:MET:HE3	1:N8:50:VAL:CG2	2.48	0.44
2:P7:10:LEU:HD21	2:P8:77:ILE:HG12	1.98	0.44
2:P8:44:CYS:SG	2:P8:73:ILE:HG21	2.57	0.44
1:BS:11:MET:HB3	1:IR:18:VAL:CG2	2.45	0.44
1:CS:29:LYS:O	2:PR:9:THR:CG2	2.65	0.44
1:DQ:9:LEU:HG	1:DQ:11:MET:HE2	1.99	0.44
1:DT:9:LEU:HG	1:DT:11:MET:HE2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:NP:27:MET:HE3	1:NP:50:VAL:CG2	2.47	0.44
1:NT:27:MET:HE3	1:NT:50:VAL:HG22	2.00	0.44
1:OS:85:HIS:HD1	1:OS:87:GLU:H	1.65	0.44
2:PQ:4:MET:HE3	2:PQ:29:GLU:HG3	1.99	0.44
1:AG:25:ASP:HA	1:CG:88:VAL:HG21	1.98	0.44
1:AK:25:ASP:CA	1:CK:88:VAL:HG21	2.48	0.44
1:BI:41:VAL:HG13	1:IH:40:PHE:HD1	1.82	0.44
1:CK:18:VAL:HG13	1:HJ:11:MET:HE3	2.00	0.44
1:GI:68:CYS:HA	1:GI:71:VAL:HG12	1.99	0.44
2:PI:14:ASN:ND2	2:PJ:76:ILE:HD12	2.31	0.44
3:YG:867:ALA:O	3:YG:868:ARG:C	2.60	0.44
3:YH:867:ALA:O	3:YH:868:ARG:C	2.60	0.44
1:AN:25:ASP:CA	1:CN:88:VAL:HG21	2.48	0.44
1:HF:8:ALA:HB3	1:HF:52:GLY:O	2.17	0.44
1:HF:80:ILE:HD12	3:YN:848:ILE:HG21	1.99	0.44
1:HL:15:ARG:CZ	1:HL:76:VAL:HG22	2.47	0.44
1:LL:32:GLU:HB2	1:Jl:7:ILE:HD11	2.00	0.44
1:NF:12:ILE:HG23	1:NF:75:LEU:HD12	2.00	0.44
1:Ei:90:ASN:CB	1:DV:97:GLN:HA	2.29	0.44
1:He:80:ILE:HD12	3:Yh:848:ILE:HG21	1.95	0.44
1:Hh:8:ALA:HB3	1:Hh:52:GLY:O	2.17	0.44
1:If:82:ALA:HB3	1:Of:30:ALA:O	2.17	0.44
3:Yg:867:ALA:O	3:Yg:868:ARG:C	2.60	0.44
1:AV:25:ASP:CA	1:CV:88:VAL:HG21	2.48	0.44
1:AX:25:ASP:CA	1:CX:88:VAL:HG21	2.47	0.44
1:AZ:35:LEU:HD21	1:CZ:91:ILE:HD13	1.98	0.44
1:BY:41:VAL:HG13	1:IX:40:PHE:CD1	2.52	0.44
1:CV:29:LYS:HE2	2:PZ:45:ILE:CG2	2.47	0.44
1:CZ:18:VAL:HG22	1:HY:11:MET:CB	2.47	0.44
1:DW:78:ALA:HB3	3:Xp:616:ILE:HD13	2.00	0.44
1:DZ:9:LEU:HG	1:DZ:11:MET:HE2	1.99	0.44
1:EX:85:HIS:CB	1:Dn:28:THR:HG21	2.43	0.44
1:GZ:68:CYS:HA	1:GZ:71:VAL:HG12	1.99	0.44
1:HV:62:ARG:HG3	3:YY:848:ILE:CD1	2.32	0.44
1:HZ:62:ARG:HG3	3:YX:848:ILE:CD1	2.29	0.44
3:XZ:714:THR:HA	3:XZ:718:MET:HG2	1.99	0.44
1:Ab:35:LEU:HD21	1:Cb:91:ILE:HD13	1.98	0.44
1:Bd:41:VAL:HG13	1:Ic:40:PHE:CD1	2.52	0.44
1:Ea:85:HIS:NE2	1:DS:28:THR:HG22	2.32	0.44
1:Ga:68:CYS:HA	1:Ga:71:VAL:HG12	1.99	0.44
1:Hb:62:ARG:HG2	3:YU:848:ILE:HD11	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Av:75:LEU:HD23	3:Yu:774:VAL:HB	2.00	0.44
1:Gv:68:CYS:HA	1:Gv:71:VAL:HG12	1.99	0.44
1:Hw:8:ALA:HB3	1:Hw:52:GLY:O	2.17	0.44
1:It:82:ALA:HB3	1:Ot:30:ALA:O	2.17	0.44
3:Yw:867:ALA:O	3:Yw:868:ARG:C	2.60	0.44
1:Eo:54:THR:HG22	3:Yo:707:ILE:HG12	1.98	0.44
1:Gn:68:CYS:HA	1:Gn:71:VAL:HG12	1.99	0.44
1:Hn:8:ALA:HB3	1:Hn:52:GLY:O	2.17	0.44
2:Pn:4:MET:HE3	2:Pn:29:GLU:HG3	1.99	0.44
3:Xl:720:ALA:HB2	1:Fl:66:ASP:HB2	2.00	0.44
1:Ep:85:HIS:NE2	1:Dh:28:THR:HG22	2.32	0.44
1:Hp:8:ALA:HB3	1:Hp:52:GLY:O	2.17	0.44
1:Or:82:ALA:H	3:Xr:716:PRO:HG2	1.82	0.44
1:J6:82:ALA:HB3	1:LN:30:ALA:O	2.17	0.44
1:DM:36:VAL:HG11	1:DM:51:ARG:HB2	2.00	0.44
1:FY:24:ALA:HB2	1:FY:48:VAL:HG11	1.98	0.44
1:Fq:24:ALA:HB2	1:Fq:48:VAL:HG11	1.98	0.44
1:Db:7:ILE:HD12	1:Db:83:ARG:HG3	2.00	0.44
1:DH:78:ALA:HB1	3:Xa:616:ILE:CD1	2.48	0.44
1:AA:25:ASP:HA	1:CA:88:VAL:HG21	1.99	0.44
1:BA:41:VAL:HG13	1:IE:40:PHE:HD1	1.80	0.44
1:DC:9:LEU:HG	1:DC:11:MET:HE2	1.99	0.44
1:GE:62:ARG:HG2	3:YD:785:VAL:HG21	2.00	0.44
1:KC:58:ASN:OD1	3:YB:802:VAL:CG1	2.65	0.44
1:NC:27:MET:HE3	1:NC:50:VAL:HG22	2.00	0.44
1:NE:12:ILE:HG23	1:NE:75:LEU:HD12	2.00	0.44
3:XB:693:THR:HG23	3:XB:694:PRO:HD2	1.99	0.44
3:YA:867:ALA:O	3:YA:868:ARG:C	2.60	0.44
1:D3:80:ILE:O	3:Xc:618:GLY:HA2	2.15	0.44
1:K3:80:ILE:CD1	3:Y2:806:ILE:HG21	2.47	0.44
1:N3:12:ILE:HG23	1:N3:75:LEU:HD12	2.00	0.44
2:P1:44:CYS:SG	2:P1:73:ILE:HG21	2.57	0.44
2:P3:4:MET:HE3	2:P3:29:GLU:HG3	1.99	0.44
1:B8:66:ASP:OD2	3:Y7:719:LEU:HB3	2.17	0.44
1:C7:29:LYS:O	2:P6:9:THR:CG2	2.65	0.44
1:D0:9:LEU:HG	1:D0:11:MET:HE2	1.99	0.44
1:G8:68:CYS:HA	1:G8:71:VAL:HG12	1.99	0.44
1:M8:83:ARG:HD2	1:Mv:31:ALA:O	2.18	0.44
2:P9:44:CYS:SG	2:P9:73:ILE:HG21	2.57	0.44
1:DP:36:VAL:O	1:DP:95:ALA:HB3	2.17	0.44
1:GT:62:ARG:HG2	3:YS:785:VAL:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HT:62:ARG:HG3	3:YR:848:ILE:CD1	2.29	0.44
1:JS:31:ALA:HA	1:DS:82:ALA:HB1	2.00	0.44
1:NR:27:MET:HE3	1:NR:50:VAL:CG2	2.48	0.44
1:NT:27:MET:HE3	1:NT:50:VAL:CG2	2.48	0.44
2:PT:44:CYS:SG	2:PT:73:ILE:HG21	2.57	0.44
1:AI:22:GLU:OE2	3:YG:865:GLY:N	2.25	0.44
1:AK:25:ASP:HA	1:CK:88:VAL:HG21	1.99	0.44
1:FI:24:ALA:HB2	1:FI:48:VAL:HG11	1.98	0.44
1:GI:36:VAL:HG12	1:GI:96:PRO:HG3	2.00	0.44
1:GK:62:ARG:HG2	3:YJ:785:VAL:HG21	2.00	0.44
1:NJ:27:MET:HE3	1:NJ:50:VAL:HG22	2.00	0.44
3:XK:714:THR:HA	3:XK:718:MET:HG2	1.99	0.44
1:AN:25:ASP:HA	1:CN:88:VAL:HG21	1.99	0.44
1:KF:58:ASN:OD1	3:YO:802:VAL:HG13	2.17	0.44
2:PL:4:MET:HE3	2:PL:29:GLU:HG3	1.99	0.44
2:PN:44:CYS:SG	2:PN:73:ILE:HG21	2.57	0.44
1:Af:25:ASP:CA	1:Cf:88:VAL:HG21	2.48	0.44
1:Ag:25:ASP:HA	1:Cg:88:VAL:HG21	1.99	0.44
1:Cf:29:LYS:O	2:Pe:9:THR:CG2	2.66	0.44
3:Xi:626:LEU:HD23	1:Jp:65:ALA:CA	2.37	0.44
1:BX:47:THR:HG21	1:IW:18:VAL:CG2	2.46	0.44
1:CW:29:LYS:O	2:PV:9:THR:CG2	2.66	0.44
1:DW:25:ASP:HA	1:Ej:88:VAL:CG2	2.48	0.44
1:HW:80:ILE:HD12	3:YZ:848:ILE:HG21	1.99	0.44
1:HX:8:ALA:HB3	1:HX:52:GLY:O	2.17	0.44
1:HX:15:ARG:CZ	1:HX:76:VAL:HG22	2.47	0.44
1:NV:27:MET:HE3	1:NV:50:VAL:HG22	2.00	0.44
3:XV:727:THR:HA	3:XV:728:PRO:HD3	1.85	0.44
1:Bd:47:THR:HG23	1:Ic:18:VAL:CG2	2.47	0.44
1:Dc:36:VAL:O	1:Dc:95:ALA:HB3	2.17	0.44
1:Ha:8:ALA:HB3	1:Ha:52:GLY:O	2.17	0.44
1:Hb:8:ALA:HB3	1:Hb:52:GLY:O	2.17	0.44
1:Hb:15:ARG:CZ	1:Hb:76:VAL:HG22	2.47	0.44
1:Kc:80:ILE:CD1	3:Yb:806:ILE:HG21	2.47	0.44
1:Na:27:MET:HE3	1:Na:50:VAL:CG2	2.48	0.44
1:Nd:27:MET:HE3	1:Nd:50:VAL:HG22	1.99	0.44
2:Pb:10:LEU:HD21	2:Pc:77:ILE:HG12	1.98	0.44
1:Av:25:ASP:CA	1:Cv:88:VAL:HG21	2.48	0.44
1:Dt:36:VAL:O	1:Dt:95:ALA:HB3	2.17	0.44
1:Hx:8:ALA:HB3	1:Hx:52:GLY:O	2.17	0.44
1:Nt:12:ILE:HG23	1:Nt:75:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Cl:29:LYS:O	2:Pk:9:THR:CG2	2.66	0.44
1:Hk:15:ARG:CZ	1:Hk:76:VAL:HG22	2.47	0.44
1:Nl:27:MET:HE3	1:Nl:50:VAL:CG2	2.48	0.44
1:Bq:41:VAL:HG13	1:Ip:40:PHE:CD1	2.52	0.44
1:Bs:11:MET:HB3	1:Ir:18:VAL:CG2	2.46	0.44
1:Cp:29:LYS:HE2	2:Pj:45:ILE:CG2	2.47	0.44
1:Dr:9:LEU:HG	1:Dr:11:MET:HE2	1.99	0.44
1:Hs:12:ILE:HG23	1:Hs:75:LEU:HD12	1.99	0.44
3:XD:693:THR:HG23	3:XD:694:PRO:HD2	1.99	0.44
1:Dw:65:ALA:HB1	3:XM:616:ILE:HD11	1.96	0.44
1:EL:68:CYS:SG	1:EL:75:LEU:HB3	2.57	0.44
1:DI:9:LEU:HG	1:DI:11:MET:HE2	1.99	0.44
1:El:81:ILE:HG21	1:El:84:VAL:HG12	2.00	0.44
1:DB:80:ILE:HD11	3:Xv:616:ILE:HG21	1.99	0.44
1:ME:29:LYS:NZ	1:L2:29:LYS:O	2.40	0.44
1:OD:85:HIS:NE2	1:DD:83:ARG:NH1	2.66	0.44
2:PA:4:MET:HE3	2:PA:29:GLU:HG3	1.99	0.44
3:XE:620:SER:O	1:Jg:62:ARG:HD3	2.17	0.44
1:A5:25:ASP:HA	1:C5:88:VAL:HG21	1.98	0.44
1:E5:54:THR:HG22	3:Y5:707:ILE:HG12	1.98	0.44
1:K1:35:LEU:HD12	1:K1:50:VAL:HG12	1.98	0.44
1:N3:27:MET:HE3	1:N3:50:VAL:CG2	2.48	0.44
1:A8:25:ASP:CA	1:C8:88:VAL:HG21	2.48	0.44
1:A8:75:LEU:HD23	3:Y7:774:VAL:HB	2.00	0.44
1:D9:9:LEU:HG	1:D9:11:MET:HE2	1.99	0.44
1:H9:8:ALA:HB3	1:H9:52:GLY:O	2.17	0.44
1:I0:62:ARG:HD3	3:X0:728:PRO:O	2.18	0.44
1:N6:27:MET:HE3	1:N6:50:VAL:CG2	2.48	0.44
1:AT:25:ASP:CA	1:CT:88:VAL:HG21	2.48	0.44
1:CQ:29:LYS:O	2:PP:9:THR:CG2	2.66	0.44
1:DP:9:LEU:HG	1:DP:11:MET:HE2	1.99	0.44
1:ES:85:HIS:CE1	1:Da:28:THR:HG22	2.52	0.44
1:GQ:7:ILE:HB	1:GQ:51:ARG:HH21	1.83	0.44
1:HP:8:ALA:HB3	1:HP:52:GLY:O	2.17	0.44
1:IQ:82:ALA:HB3	1:OQ:30:ALA:O	2.17	0.44
1:IR:82:ALA:HB3	1:OR:30:ALA:O	2.17	0.44
1:KT:58:ASN:OD1	3:YS:802:VAL:HG13	2.17	0.44
3:XT:622:ASP:O	1:Ja:62:ARG:NH1	2.48	0.44
1:HG:12:ILE:HG23	1:HG:75:LEU:HD12	1.99	0.44
1:NH:27:MET:HE3	1:NH:50:VAL:HG22	2.00	0.44
2:PH:10:LEU:HD21	2:PI:77:ILE:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:35:LEU:HD21	1:CN:91:ILE:HD13	1.98	0.44
1:BO:41:VAL:HG13	1:IN:40:PHE:CD1	2.52	0.44
1:CN:62:ARG:HD2	2:PM:21:HIS:CE1	2.53	0.44
3:XL:648:GLN:H	3:XL:648:GLN:HG2	1.62	0.44
1:Ce:29:LYS:HE2	2:Pi:45:ILE:HG22	1.98	0.44
1:Ci:18:VAL:HG13	1:Hh:11:MET:HE3	2.00	0.44
1:Ke:58:ASN:OD1	3:Yi:802:VAL:CG1	2.66	0.44
1:Nf:27:MET:HE3	1:Nf:50:VAL:CG2	2.48	0.44
2:Pf:10:LEU:HD21	2:Pg:77:ILE:HG12	1.98	0.44
3:Xf:693:THR:HG23	3:Xf:694:PRO:HD2	1.99	0.44
1:HV:12:ILE:HG23	1:HV:75:LEU:HD12	1.99	0.44
1:HZ:15:ARG:CZ	1:HZ:76:VAL:HG22	2.47	0.44
1:IV:82:ALA:HB3	1:OV:30:ALA:O	2.17	0.44
1:IX:82:ALA:HB3	1:OX:30:ALA:O	2.17	0.44
1:JX:78:ALA:O	3:Xo:628:THR:OG1	2.35	0.44
1:KZ:58:ASN:OD1	3:YY:802:VAL:HG13	2.17	0.44
1:NZ:27:MET:HE3	1:NZ:50:VAL:HG22	2.00	0.44
2:PV:4:MET:HE3	2:PV:29:GLU:HG3	1.99	0.44
2:PW:10:LEU:HD21	2:PX:77:ILE:HG12	1.98	0.44
1:Bc:41:VAL:HG13	1:Ib:40:PHE:HD1	1.83	0.44
1:Cb:29:LYS:O	2:Pa:9:THR:CG2	2.65	0.44
1:Dd:36:VAL:O	1:Dd:95:ALA:HB3	2.17	0.44
1:Hd:8:ALA:HB3	1:Hd:52:GLY:O	2.17	0.44
1:Nd:27:MET:HE3	1:Nd:50:VAL:CG2	2.48	0.44
2:Pa:44:CYS:SG	2:Pa:73:ILE:HG21	2.57	0.44
1:Aw:25:ASP:HA	1:Cw:88:VAL:HG21	1.98	0.44
1:Ax:81:ILE:HG22	1:Ax:83:ARG:O	2.18	0.44
1:Bu:41:VAL:HG13	1:It:40:PHE:CD1	2.52	0.44
1:Bv:41:VAL:HG13	1:Iu:40:PHE:HD1	1.83	0.44
1:Ct:18:VAL:HG23	1:Hx:47:THR:HG23	2.00	0.44
1:Et:92:LEU:HD21	1:Dr:21:ILE:HG21	1.99	0.44
1:Ht:12:ILE:HG23	1:Ht:75:LEU:HD12	1.99	0.44
1:Ht:15:ARG:CZ	1:Ht:76:VAL:HG22	2.47	0.44
1:Hu:15:ARG:CZ	1:Hu:76:VAL:HG22	2.47	0.44
1:Hv:8:ALA:HB3	1:Hv:52:GLY:O	2.17	0.44
1:Nt:27:MET:HE3	1:Nt:50:VAL:HG22	2.00	0.44
1:Bl:47:THR:HG23	1:Ik:18:VAL:CG2	2.47	0.44
1:Co:18:VAL:HG13	1:Hn:11:MET:HE3	2.00	0.44
1:Hn:12:ILE:HG23	1:Hn:75:LEU:HD12	1.99	0.44
1:Jl:45:TYR:CZ	3:Xl:694:PRO:HG3	2.53	0.44
2:Pl:10:LEU:HD21	2:Pm:77:ILE:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ap:25:ASP:CA	1:Cp:88:VAL:HG21	2.48	0.44
1:Aq:25:ASP:CA	1:Cq:88:VAL:HG21	2.47	0.44
1:Cr:62:ARG:HD2	2:Pq:21:HIS:CE1	2.53	0.44
1:Cs:29:LYS:O	2:Pr:9:THR:CG2	2.65	0.44
1:Dr:36:VAL:O	1:Dr:95:ALA:HB3	2.17	0.44
1:Ep:90:ASN:HB3	1:Dh:97:GLN:C	2.42	0.44
1:Hr:15:ARG:CZ	1:Hr:76:VAL:HG22	2.47	0.44
1:Hr:80:ILE:CD1	3:Yp:848:ILE:CG2	2.95	0.44
1:Ip:82:ALA:HB3	1:Op:30:ALA:O	2.17	0.44
1:Is:82:ALA:HB3	1:Os:30:ALA:O	2.17	0.44
2:Ps:4:MET:HE3	2:Ps:29:GLU:HG3	1.99	0.44
3:Xj:699:GLN:O	3:Xj:700:ASN:C	2.60	0.44
3:Yq:724:ILE:HG13	3:Yq:727:THR:HG23	1.98	0.44
1:Dn:31:ALA:HB1	1:Dn:56:ALA:HB1	2.00	0.44
1:Dj:57:VAL:O	1:Dj:61:VAL:HG23	2.18	0.44
3:XM:638:ILE:HG22	3:XM:640:GLY:H	1.82	0.44
1:DH:78:ALA:CB	3:Xa:616:ILE:HD13	2.48	0.44
1:MI:23:ALA:HB2	1:MI:68:CYS:SG	2.58	0.44
1:AE:25:ASP:HA	1:CE:88:VAL:HG21	1.99	0.44
1:EA:87:GLU:OE1	1:D8:28:THR:HG21	2.17	0.44
1:EA:92:LEU:HD21	1:D8:21:ILE:HG21	1.99	0.44
1:KA:58:ASN:OD1	3:YE:802:VAL:CG1	2.66	0.44
1:NA:27:MET:HE3	1:NA:50:VAL:HG22	2.00	0.44
1:F2:79:HIS:HA	3:X2:725:THR:O	2.18	0.44
1:H1:8:ALA:HB3	1:H1:52:GLY:O	2.17	0.44
1:H5:15:ARG:CZ	1:H5:76:VAL:HG22	2.47	0.44
1:M2:23:ALA:HB2	1:M2:68:CYS:SG	2.58	0.44
1:N2:27:MET:HE3	1:N2:50:VAL:CG2	2.48	0.44
1:N2:27:MET:HE3	1:N2:50:VAL:HG22	2.00	0.44
2:P5:4:MET:HE3	2:P5:29:GLU:HG3	1.99	0.44
1:A0:81:ILE:HG22	1:A0:83:ARG:O	2.18	0.44
1:A9:25:ASP:CA	1:C9:88:VAL:HG21	2.47	0.44
1:A9:25:ASP:HA	1:C9:88:VAL:HG21	1.99	0.44
1:A9:81:ILE:HG22	1:A9:83:ARG:O	2.18	0.44
1:H7:15:ARG:CZ	1:H7:76:VAL:HG22	2.47	0.44
1:I0:82:ALA:HB3	1:O0:30:ALA:O	2.17	0.44
1:N7:27:MET:HE3	1:N7:50:VAL:CG2	2.48	0.44
1:N9:27:MET:HE3	1:N9:50:VAL:CG2	2.48	0.44
1:AP:25:ASP:HA	1:CP:88:VAL:HG21	1.99	0.44
1:AQ:81:ILE:HG22	1:AQ:83:ARG:O	2.18	0.44
1:CT:18:VAL:HG22	1:HS:11:MET:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ER:13:GLU:OE2	1:D4:16:GLY:CA	2.65	0.44
1:GT:68:CYS:HA	1:GT:71:VAL:HG12	1.99	0.44
1:EJ:87:GLU:OE1	1:Dm:28:THR:CG2	2.65	0.44
1:MJ:23:ALA:HB2	1:MJ:68:CYS:SG	2.58	0.44
1:NK:12:ILE:HG23	1:NK:75:LEU:HD12	2.00	0.44
1:BF:11:MET:HB3	1:IO:18:VAL:CG2	2.46	0.44
1:BL:8:ALA:HA	1:BL:82:ALA:O	2.17	0.44
1:CF:18:VAL:HG13	1:HO:11:MET:HE3	2.00	0.44
1:CO:29:LYS:O	2:PN:9:THR:CG2	2.65	0.44
1:DL:97:GLN:HA	1:Ew:90:ASN:CB	2.28	0.44
1:EM:91:ILE:CG2	1:D6:35:LEU:HD23	2.47	0.44
1:HN:15:ARG:CZ	1:HN:76:VAL:HG22	2.47	0.44
1:HO:8:ALA:HB3	1:HO:52:GLY:O	2.17	0.44
1:NF:27:MET:HE3	1:NF:50:VAL:CG2	2.48	0.44
1:NF:27:MET:HE3	1:NF:50:VAL:HG22	2.00	0.44
1:NO:27:MET:HE3	1:NO:50:VAL:CG2	2.48	0.44
1:ON:82:ALA:H	3:XN:716:PRO:HG2	1.82	0.44
2:PN:4:MET:HE3	2:PN:29:GLU:HG3	1.99	0.44
1:Af:81:ILE:HG22	1:Af:83:ARG:O	2.18	0.44
1:Di:28:THR:O	1:LW:83:ARG:NH1	2.49	0.44
1:Ee:11:MET:HB3	1:Dc:18:VAL:CG2	2.47	0.44
3:Xi:643:TYR:OH	1:Dp:55:GLY:HA2	2.18	0.44
1:AX:81:ILE:HG22	1:AX:83:ARG:O	2.18	0.44
1:AY:35:LEU:HD21	1:CY:91:ILE:HD13	1.98	0.44
1:DZ:36:VAL:O	1:DZ:95:ALA:HB3	2.17	0.44
1:EZ:87:GLU:OE1	1:Dd:28:THR:CG2	2.66	0.44
1:GW:7:ILE:HB	1:GW:51:ARG:HH21	1.83	0.44
1:GX:68:CYS:HA	1:GX:71:VAL:HG12	1.99	0.44
1:HV:8:ALA:HB3	1:HV:52:GLY:O	2.17	0.44
1:HX:12:ILE:HG23	1:HX:75:LEU:HD12	1.99	0.44
1:JV:28:THR:HG21	1:OV:87:GLU:CB	2.46	0.44
1:Ac:81:ILE:HG22	1:Ac:83:ARG:O	2.18	0.44
1:HU:15:ARG:CZ	1:HU:76:VAL:HG22	2.47	0.44
1:Hc:8:ALA:HB3	1:Hc:52:GLY:O	2.17	0.44
1:Md:23:ALA:HB2	1:Md:68:CYS:SG	2.58	0.44
3:XU:691:ILE:H	3:XU:691:ILE:HG13	1.45	0.44
1:Aw:25:ASP:CA	1:Cw:88:VAL:HG21	2.48	0.44
1:Ev:85:HIS:CA	1:D7:29:LYS:HE3	2.48	0.44
1:Hw:15:ARG:CZ	1:Hw:76:VAL:HG22	2.47	0.44
1:Nt:27:MET:HE3	1:Nt:50:VAL:CG2	2.48	0.44
1:Nv:27:MET:HE3	1:Nv:50:VAL:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pv:44:CYS:SG	2:Pv:73:ILE:HG21	2.57	0.44
1:Al:25:ASP:CA	1:Cl:88:VAL:HG21	2.48	0.44
1:Al:81:ILE:HG22	1:Al:83:ARG:O	2.18	0.44
1:Hk:80:ILE:HD12	3:Yn:848:ILE:HG21	1.95	0.44
1:Jo:45:TYR:CZ	3:Xo:694:PRO:HG3	2.53	0.44
1:Kk:58:ASN:OD1	3:Yo:802:VAL:CG1	2.66	0.44
2:Pl:44:CYS:SG	2:Pl:73:ILE:HG21	2.57	0.44
3:Yn:867:ALA:O	3:Yn:868:ARG:C	2.60	0.44
1:Aj:25:ASP:CA	1:Cj:88:VAL:HG21	2.48	0.44
1:Aj:35:LEU:HD21	1:Cj:91:ILE:HD13	1.98	0.44
1:Aq:35:LEU:HD21	1:Cq:91:ILE:HD13	1.98	0.44
1:Ar:75:LEU:HD23	3:Yq:774:VAL:HB	2.00	0.44
1:Bp:41:VAL:HG13	1:Ij:40:PHE:HD1	1.80	0.44
1:Cp:18:VAL:HG23	1:Hj:47:THR:HG23	2.00	0.44
1:Nr:27:MET:HE3	1:Nr:50:VAL:HG22	2.00	0.44
2:Ps:68:PRO:HA	2:Pj:57:ALA:HB1	2.00	0.44
1:J3:45:TYR:CE2	3:X3:694:PRO:HG3	2.53	0.44
3:X5:714:THR:HA	3:X5:718:MET:HG2	1.99	0.44
1:DJ:10:GLY:HA2	1:DJ:79:HIS:O	2.18	0.44
1:DB:79:HIS:C	3:Xv:617:SER:O	2.53	0.44
1:EC:85:HIS:CG	1:Dq:28:THR:CG2	3.00	0.44
1:MC:23:ALA:HB2	1:MC:68:CYS:SG	2.58	0.44
1:NB:27:MET:HE3	1:NB:50:VAL:HG22	2.00	0.44
1:ND:27:MET:HE3	1:ND:50:VAL:HG22	2.00	0.44
2:PD:14:ASN:HD21	2:PE:76:ILE:H	1.64	0.44
2:PE:4:MET:HE3	2:PE:29:GLU:HG3	1.99	0.44
1:A2:25:ASP:CA	1:C2:88:VAL:HG21	2.48	0.44
1:D2:28:THR:CG2	1:Ef:85:HIS:CE1	3.01	0.44
1:E5:87:GLU:OE1	1:D9:28:THR:CG2	2.66	0.44
1:H2:15:ARG:CZ	1:H2:76:VAL:HG22	2.47	0.44
1:H5:80:ILE:HD12	3:Y3:848:ILE:HG21	1.99	0.44
1:N4:12:ILE:HG23	1:N4:75:LEU:HD12	2.00	0.44
1:B7:11:MET:HB3	1:I6:18:VAL:CG2	2.46	0.44
1:D0:18:VAL:CG2	1:EQ:11:MET:HB3	2.48	0.44
1:D9:36:VAL:O	1:D9:95:ALA:HB3	2.17	0.44
1:E6:91:ILE:CG2	1:DM:35:LEU:HD23	2.47	0.44
1:E9:79:HIS:HA	3:Y9:703:THR:O	2.18	0.44
1:H8:15:ARG:CZ	1:H8:76:VAL:HG22	2.47	0.44
1:J0:62:ARG:NH2	3:XR:624:SER:CB	2.68	0.44
1:N0:27:MET:HE3	1:N0:50:VAL:HG22	2.00	0.44
2:P6:4:MET:HE3	2:P6:29:GLU:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:25:ASP:CA	1:CP:88:VAL:HG21	2.48	0.44
1:AP:81:ILE:HG22	1:AP:83:ARG:O	2.18	0.44
1:HT:15:ARG:CZ	1:HT:76:VAL:HG22	2.47	0.44
1:NQ:27:MET:HE3	1:NQ:50:VAL:HG22	2.00	0.44
2:PR:4:MET:HE3	2:PR:29:GLU:HG3	1.99	0.44
1:CI:62:ARG:HD2	2:PH:21:HIS:CE1	2.53	0.44
1:EH:85:HIS:CE1	1:DU:28:THR:HG22	2.53	0.44
1:JJ:62:ARG:NE	3:Xn:624:SER:N	2.66	0.44
1:KG:58:ASN:OD1	3:YK:802:VAL:CG1	2.66	0.44
1:NG:27:MET:HE3	1:NG:50:VAL:HG22	2.00	0.44
2:PG:4:MET:HE3	2:PG:29:GLU:HG3	1.99	0.44
2:PK:4:MET:HE3	2:PK:29:GLU:HG3	1.99	0.44
3:XK:643:TYR:O	1:Dm:58:ASN:OD1	2.35	0.44
1:AF:25:ASP:CA	1:CF:88:VAL:HG21	2.47	0.44
1:DL:35:LEU:HD23	1:Ew:91:ILE:CG2	2.47	0.44
1:DL:72:GLY:CA	1:Ew:77:ALA:HB2	2.46	0.44
1:KO:35:LEU:HD12	1:KO:50:VAL:HG12	1.98	0.44
1:ML:23:ALA:HB2	1:ML:68:CYS:SG	2.58	0.44
1:NM:12:ILE:HG23	1:NM:75:LEU:HD12	2.00	0.44
1:NO:12:ILE:HG23	1:NO:75:LEU:HD12	2.00	0.44
1:Bf:47:THR:HG23	1:Ie:18:VAL:CG2	2.47	0.44
1:Eg:81:ILE:CG2	1:DD:25:ASP:OD2	2.65	0.44
1:He:15:ARG:CZ	1:He:76:VAL:HG22	2.47	0.44
1:Hh:12:ILE:HG23	1:Hh:75:LEU:HD12	1.99	0.44
1:Ne:27:MET:HE3	1:Ne:50:VAL:CG2	2.48	0.44
3:Yh:867:ALA:O	3:Yh:868:ARG:C	2.60	0.44
1:BW:91:ILE:HD12	1:IV:21:ILE:CD1	2.46	0.44
1:EW:68:CYS:SG	1:EW:75:LEU:HD13	2.58	0.44
1:EY:77:ALA:HB1	1:DI:18:VAL:HG11	2.00	0.44
1:JZ:45:TYR:CZ	3:XZ:694:PRO:HG3	2.53	0.44
1:KV:58:ASN:OD1	3:YZ:802:VAL:CG1	2.66	0.44
1:Ab:25:ASP:CA	1:Cb:88:VAL:HG21	2.48	0.44
1:Ab:25:ASP:HA	1:Cb:88:VAL:HG21	1.98	0.44
1:CU:18:VAL:HG22	1:Hd:11:MET:CB	2.47	0.44
1:Cd:29:LYS:O	2:Pc:9:THR:CG2	2.65	0.44
1:Hd:12:ILE:HG23	1:Hd:75:LEU:HD12	1.99	0.44
1:Hd:15:ARG:CZ	1:Hd:76:VAL:HG22	2.47	0.44
1:Ma:23:ALA:HB2	1:Ma:68:CYS:SG	2.58	0.44
1:NU:27:MET:HE3	1:NU:50:VAL:CG2	2.48	0.44
1:Nd:12:ILE:HG23	1:Nd:75:LEU:HD12	2.00	0.44
1:Au:25:ASP:CA	1:Cu:88:VAL:HG21	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ev:13:GLU:HB2	1:D7:18:VAL:HG21	2.00	0.44
1:Mt:23:ALA:HB2	1:Mt:68:CYS:SG	2.58	0.44
1:Mv:23:ALA:HB2	1:Mv:68:CYS:SG	2.58	0.44
3:Xx:693:THR:HG23	3:Xx:694:PRO:HD2	1.99	0.44
1:Fn:71:VAL:CG2	1:Dn:79:HIS:CD2	3.01	0.44
1:Nk:27:MET:HE3	1:Nk:50:VAL:CG2	2.48	0.44
1:No:27:MET:HE3	1:No:50:VAL:HG22	2.00	0.44
1:No:27:MET:HE3	1:No:50:VAL:CG2	2.48	0.44
3:Xl:647:GLN:H	3:Xl:647:GLN:HG3	1.52	0.44
1:Ap:81:ILE:HG22	1:Ap:83:ARG:O	2.18	0.44
1:Gj:78:ALA:HB1	3:Ys:785:VAL:HG13	2.00	0.44
1:Gs:68:CYS:HA	1:Gs:71:VAL:HG12	1.99	0.44
1:Js:28:THR:HG21	1:Os:87:GLU:CB	2.46	0.44
1:Kj:58:ASN:OD1	3:Ys:802:VAL:HG13	2.17	0.44
1:Dn:11:MET:HG2	1:Dn:49:LEU:HD22	2.00	0.44
1:AC:22:GLU:OE2	3:YA:865:GLY:N	2.25	0.44
1:BB:41:VAL:HG13	1:IA:40:PHE:CD1	2.52	0.44
1:DA:18:VAL:HG11	1:E8:77:ALA:HB1	2.00	0.44
1:EA:68:CYS:SG	1:EA:75:LEU:HD13	2.58	0.44
1:MD:23:ALA:HB2	1:MD:68:CYS:SG	2.58	0.44
3:XB:628:THR:O	1:J8:79:HIS:HA	2.18	0.44
1:A3:25:ASP:HA	1:C3:88:VAL:HG21	1.99	0.44
1:D2:47:THR:CG2	1:F2:17:LEU:HD23	2.48	0.44
1:F2:66:ASP:HB2	3:X2:720:ALA:HB2	2.00	0.44
1:I4:82:ALA:HB3	1:O4:30:ALA:O	2.17	0.44
1:M3:23:ALA:HB2	1:M3:68:CYS:SG	2.58	0.44
1:M3:25:ASP:HA	1:J3:88:VAL:HG21	1.99	0.44
1:N1:12:ILE:HG23	1:N1:75:LEU:HD12	2.00	0.44
1:N1:27:MET:HE3	1:N1:50:VAL:CG2	2.48	0.44
2:P2:4:MET:HE3	2:P2:29:GLU:HG3	1.99	0.44
1:A8:25:ASP:HA	1:C8:88:VAL:HG21	1.99	0.44
1:B8:79:HIS:HA	3:Y7:725:THR:O	2.18	0.44
1:C0:18:VAL:HG22	1:H9:11:MET:CB	2.47	0.44
1:C8:62:ARG:HD2	2:P7:21:HIS:CE1	2.53	0.44
1:D0:28:THR:HG21	1:EQ:87:GLU:HB2	2.00	0.44
1:H6:12:ILE:HG23	1:H6:75:LEU:HD12	1.99	0.44
1:M9:23:ALA:HB2	1:M9:68:CYS:SG	2.58	0.44
3:X0:696:ARG:HG2	3:X0:700:ASN:HA	2.00	0.44
3:Y9:867:ALA:O	3:Y9:868:ARG:C	2.60	0.44
1:AT:25:ASP:HA	1:CT:88:VAL:HG21	1.99	0.44
1:HS:15:ARG:CZ	1:HS:76:VAL:HG22	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:LT:32:GLU:OE1	1:Ja:7:ILE:HG12	2.17	0.44
1:MP:23:ALA:HB2	1:MP:68:CYS:SG	2.58	0.44
1:BH:11:MET:HB3	1:IG:18:VAL:CG2	2.46	0.44
1:EG:68:CYS:SG	1:EG:75:LEU:HD13	2.58	0.44
1:FI:46:VAL:CG2	1:DI:41:VAL:HG13	2.48	0.44
1:AF:25:ASP:HA	1:CF:88:VAL:HG21	1.98	0.44
1:BN:79:HIS:HA	3:YM:725:THR:O	2.18	0.44
1:DO:9:LEU:HG	1:DO:11:MET:HE2	1.99	0.44
1:EO:79:HIS:HA	3:YO:703:THR:O	2.18	0.44
1:HF:15:ARG:CZ	1:HF:76:VAL:HG22	2.47	0.44
1:IM:82:ALA:HB3	1:OM:30:ALA:O	2.17	0.44
1:KN:80:ILE:CD1	3:YM:806:ILE:HG21	2.47	0.44
1:LF:62:ARG:HH22	3:XF:649:THR:HG23	1.83	0.44
2:PF:4:MET:HE3	2:PF:29:GLU:HG3	1.99	0.44
1:Jh:62:ARG:HG2	3:Xq:627:VAL:HG21	2.00	0.44
1:Ni:27:MET:HE3	1:Ni:50:VAL:HG22	2.00	0.44
1:AW:25:ASP:CA	1:CW:88:VAL:HG21	2.48	0.44
1:AY:25:ASP:CA	1:CY:88:VAL:HG21	2.48	0.44
1:BX:66:ASP:OD1	3:YW:720:ALA:HB2	2.18	0.44
1:GW:85:HIS:HB3	1:GW:88:VAL:HG23	2.00	0.44
1:NX:27:MET:HE3	1:NX:50:VAL:HG22	2.00	0.44
1:AU:81:ILE:HG22	1:AU:83:ARG:O	2.18	0.44
1:Aa:81:ILE:HG22	1:Aa:83:ARG:O	2.18	0.44
1:Ac:25:ASP:HA	1:Cc:88:VAL:HG21	1.99	0.44
1:Bc:79:HIS:HA	3:Yb:725:THR:O	2.18	0.44
1:Bc:91:ILE:HD11	1:Ib:21:ILE:HD13	1.98	0.44
1:Eb:79:HIS:HA	3:Yb:703:THR:O	2.17	0.44
1:GU:18:VAL:HB	1:GU:19:PRO:HD3	1.99	0.44
1:Mc:23:ALA:HB2	1:Mc:68:CYS:SG	2.58	0.44
1:Na:12:ILE:HG23	1:Na:75:LEU:HD12	2.00	0.44
1:Na:27:MET:HE3	1:Na:50:VAL:HG22	2.00	0.44
1:Nb:27:MET:HE3	1:Nb:50:VAL:CG2	2.48	0.44
2:PU:65:LYS:HE2	2:PU:65:LYS:HB3	1.86	0.44
1:Dt:18:VAL:HG11	1:Er:77:ALA:HB1	2.00	0.44
1:Ev:54:THR:HG22	3:Yv:707:ILE:HG12	2.00	0.44
1:Hv:15:ARG:CZ	1:Hv:76:VAL:HG22	2.47	0.44
1:Nw:27:MET:HE3	1:Nw:50:VAL:HG22	2.00	0.44
1:Nw:27:MET:HE3	1:Nw:50:VAL:CG2	2.48	0.44
2:Pw:14:ASN:HD21	2:Px:76:ILE:H	1.64	0.44
1:Am:25:ASP:CA	1:Cm:88:VAL:HG21	2.48	0.44
1:Cm:25:ASP:HA	1:Hl:88:VAL:CG2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fn:71:VAL:CG2	1:Dn:79:HIS:HD2	2.31	0.44
1:Cj:18:VAL:HG13	1:Hs:11:MET:HE3	2.00	0.44
1:Gp:68:CYS:HA	1:Gp:71:VAL:HG12	1.99	0.44
1:Hp:15:ARG:CZ	1:Hp:76:VAL:HG22	2.47	0.44
1:Hs:8:ALA:HB3	1:Hs:52:GLY:O	2.17	0.44
1:Jj:79:HIS:CD2	3:XX:628:THR:OG1	2.71	0.44
1:Dh:55:GLY:O	1:Dh:56:ALA:C	2.59	0.44
1:Df:57:VAL:HG12	1:Df:58:ASN:N	2.33	0.44
1:Df:58:ASN:OD1	1:Df:80:ILE:HD11	2.17	0.44
1:LI:58:ASN:ND2	3:XI:643:TYR:HD2	2.16	0.44
1:LI:65:ALA:HB1	3:XI:636:GLN:OE1	2.18	0.44
3:Xm:694:PRO:HG3	1:Jm:45:TYR:CE2	2.53	0.44
1:AB:81:ILE:HG22	1:AB:83:ARG:O	2.18	0.43
1:CC:62:ARG:HD2	2:PB:21:HIS:CE1	2.53	0.43
1:EA:88:VAL:HG21	1:D8:25:ASP:CA	2.47	0.43
1:EB:68:CYS:SG	1:EB:75:LEU:HD13	2.58	0.43
1:HA:15:ARG:CZ	1:HA:76:VAL:HG22	2.47	0.43
1:JB:79:HIS:HA	3:Xv:628:THR:O	2.18	0.43
1:MB:23:ALA:HB2	1:MB:68:CYS:SG	2.58	0.43
1:NA:27:MET:HE3	1:NA:50:VAL:CG2	2.48	0.43
3:XC:693:THR:HG23	3:XC:694:PRO:HD2	1.99	0.43
1:C2:29:LYS:O	2:P1:9:THR:CG2	2.65	0.43
1:D1:9:LEU:HG	1:D1:11:MET:HE2	1.99	0.43
1:E4:91:ILE:CG2	1:DR:35:LEU:HD23	2.48	0.43
1:B9:91:ILE:HD12	1:I8:21:ILE:CD1	2.45	0.43
1:E7:68:CYS:SG	1:E7:75:LEU:HD13	2.58	0.43
1:H0:80:ILE:HD12	3:Y8:848:ILE:HG21	1.99	0.43
1:H6:15:ARG:CZ	1:H6:76:VAL:HG22	2.47	0.43
1:L8:31:ALA:C	1:Jv:83:ARG:NH1	2.58	0.43
1:M7:23:ALA:HB2	1:M7:68:CYS:SG	2.58	0.43
1:N9:27:MET:HE3	1:N9:50:VAL:HG22	1.99	0.43
3:X0:691:ILE:H	3:X0:691:ILE:HG13	1.45	0.43
1:BR:47:THR:HG21	1:IQ:18:VAL:CG2	2.46	0.43
1:EP:88:VAL:HG21	1:DN:25:ASP:CA	2.47	0.43
1:HP:62:ARG:HG3	3:YS:848:ILE:CD1	2.32	0.43
1:HR:12:ILE:HG23	1:HR:75:LEU:HD12	1.99	0.43
1:NS:27:MET:HE3	1:NS:50:VAL:CG2	2.48	0.43
2:PP:57:ALA:HB1	2:PT:68:PRO:HA	2.00	0.43
3:YP:867:ALA:O	3:YP:868:ARG:C	2.60	0.43
1:EH:68:CYS:SG	1:EH:75:LEU:HD13	2.58	0.43
1:FH:66:ASP:HB2	3:XH:720:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:MH:23:ALA:HB2	1:MH:68:CYS:SG	2.58	0.43
1:NH:27:MET:HE3	1:NH:50:VAL:CG2	2.48	0.43
1:AL:25:ASP:HA	1:CL:88:VAL:HG21	1.99	0.43
1:AL:25:ASP:CA	1:CL:88:VAL:HG21	2.48	0.43
1:BL:58:ASN:HA	1:BL:80:ILE:HD13	2.00	0.43
1:HM:80:ILE:HD12	3:YF:848:ILE:HG21	1.99	0.43
1:IF:62:ARG:HD3	3:XF:728:PRO:O	2.18	0.43
1:Ah:81:ILE:HG22	1:Ah:83:ARG:O	2.18	0.43
1:Ai:81:ILE:HG22	1:Ai:83:ARG:O	2.18	0.43
1:Eg:68:CYS:SG	1:Eg:75:LEU:HD13	2.58	0.43
1:Gi:62:ARG:HG2	3:Yh:785:VAL:HG21	2.00	0.43
1:He:8:ALA:HB3	1:He:52:GLY:O	2.17	0.43
1:Ni:27:MET:HE3	1:Ni:50:VAL:CG2	2.48	0.43
3:Yi:867:ALA:O	3:Yi:868:ARG:C	2.60	0.43
1:AX:75:LEU:HD23	3:YW:774:VAL:HB	2.00	0.43
1:BY:11:MET:HB3	1:IX:18:VAL:CG2	2.45	0.43
1:EV:68:CYS:SG	1:EV:75:LEU:HD13	2.58	0.43
1:FW:24:ALA:HB2	1:FW:48:VAL:HG11	1.98	0.43
1:GV:68:CYS:HA	1:GV:71:VAL:HG12	1.99	0.43
1:HZ:12:ILE:HG23	1:HZ:75:LEU:HD12	1.99	0.43
1:JW:45:TYR:CZ	3:XW:694:PRO:HG3	2.53	0.43
3:XV:634:GLU:HG3	3:XV:635:GLN:HG3	2.00	0.43
1:AU:25:ASP:CA	1:CU:88:VAL:HG21	2.48	0.43
1:Bb:41:VAL:HG13	1:Ia:40:PHE:CD1	2.52	0.43
1:Dc:47:THR:CG2	1:Fc:17:LEU:HD23	2.48	0.43
1:EU:25:ASP:HA	1:FU:88:VAL:HG21	2.00	0.43
1:Hb:80:ILE:CD1	3:YU:848:ILE:CG2	2.96	0.43
1:Nb:27:MET:HE3	1:Nb:50:VAL:HG22	2.00	0.43
1:Au:81:ILE:HG22	1:Au:83:ARG:O	2.18	0.43
1:Av:81:ILE:HG22	1:Av:83:ARG:O	2.18	0.43
1:Bw:41:VAL:HG13	1:Iv:40:PHE:CD1	2.52	0.43
1:Cx:18:VAL:HG13	1:Hw:11:MET:HE3	2.00	0.43
1:Eu:68:CYS:SG	1:Eu:75:LEU:HD13	2.58	0.43
1:Fw:17:LEU:HD23	1:Dw:47:THR:HG21	2.00	0.43
1:Gu:7:ILE:HB	1:Gu:51:ARG:HH21	1.83	0.43
1:Jw:79:HIS:CD2	3:XM:628:THR:OG1	2.72	0.43
1:Nv:12:ILE:HG23	1:Nv:75:LEU:HD12	2.00	0.43
1:Ao:81:ILE:HG22	1:Ao:83:ARG:O	2.18	0.43
1:Ek:68:CYS:SG	1:Ek:75:LEU:HD13	2.58	0.43
1:Go:62:ARG:HG2	3:Yn:785:VAL:HG21	2.00	0.43
1:Nl:27:MET:HE3	1:Nl:50:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Br:41:VAL:HG13	1:Iq:40:PHE:HD1	1.82	0.43
1:Cr:18:VAL:HG23	1:Hq:47:THR:HG23	2.00	0.43
1:Eq:68:CYS:SG	1:Eq:75:LEU:HD13	2.58	0.43
1:Hq:80:ILE:CD1	3:Yj:848:ILE:CG2	2.96	0.43
1:Hr:12:ILE:HG23	1:Hr:75:LEU:HD12	1.99	0.43
1:Jj:59:ALA:HB1	3:XX:619:THR:CB	2.48	0.43
1:Lj:62:ARG:HH22	3:Xj:649:THR:HG23	1.83	0.43
1:Np:27:MET:HE3	1:Np:50:VAL:HG22	2.00	0.43
1:Nq:27:MET:HE3	1:Nq:50:VAL:CG2	2.48	0.43
1:Nr:27:MET:HE3	1:Nr:50:VAL:CG2	2.48	0.43
1:NI:27:MET:HE3	1:NI:50:VAL:CG2	2.48	0.43
1:El:68:CYS:SG	1:El:75:LEU:HD13	2.58	0.43
1:Om:79:HIS:HA	3:Xm:714:THR:O	2.18	0.43
1:JF:7:ILE:HD11	1:Lm:32:GLU:OE1	2.17	0.43
1:AA:81:ILE:HG22	1:AA:83:ARG:O	2.18	0.43
1:AC:75:LEU:HD23	3:YB:774:VAL:HB	2.00	0.43
1:AC:81:ILE:HG22	1:AC:83:ARG:O	2.18	0.43
1:BB:11:MET:HB3	1:IA:18:VAL:CG2	2.46	0.43
1:CD:29:LYS:O	2:PC:9:THR:CG2	2.65	0.43
1:GA:68:CYS:HA	1:GA:71:VAL:HG12	1.99	0.43
1:GB:7:ILE:HB	1:GB:51:ARG:HH21	1.83	0.43
1:JB:62:ARG:HD3	3:Xv:620:SER:O	2.18	0.43
1:NA:12:ILE:HG23	1:NA:75:LEU:HD12	2.00	0.43
1:NC:27:MET:HE3	1:NC:50:VAL:CG2	2.48	0.43
1:A3:25:ASP:CA	1:C3:88:VAL:HG21	2.48	0.43
1:C5:18:VAL:HG13	1:H4:11:MET:HE3	2.00	0.43
1:D1:36:VAL:O	1:D1:95:ALA:HB3	2.17	0.43
1:E1:68:CYS:SG	1:E1:75:LEU:HD13	2.58	0.43
1:H2:12:ILE:HG23	1:H2:75:LEU:HD12	1.99	0.43
1:J4:29:LYS:O	1:D4:83:ARG:CG	2.67	0.43
1:J5:45:TYR:CZ	3:X5:694:PRO:HG3	2.53	0.43
3:Y2:734:ALA:O	3:Y2:735:ARG:C	2.60	0.43
3:Y4:867:ALA:O	3:Y4:868:ARG:C	2.60	0.43
1:A7:81:ILE:HG22	1:A7:83:ARG:O	2.18	0.43
1:F8:62:ARG:HD3	3:X8:717:GLY:O	2.19	0.43
1:H0:15:ARG:CZ	1:H0:76:VAL:HG22	2.47	0.43
1:J0:79:HIS:HA	3:XR:628:THR:O	2.17	0.43
1:K0:58:ASN:OD1	3:Y9:802:VAL:HG13	2.17	0.43
1:M6:23:ALA:HB2	1:M6:68:CYS:SG	2.58	0.43
1:N0:27:MET:HE3	1:N0:50:VAL:CG2	2.48	0.43
1:N6:27:MET:HE3	1:N6:50:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BT:11:MET:HB3	1:IS:18:VAL:CG2	2.46	0.43
1:EP:92:LEU:HD21	1:DN:21:ILE:HG21	1.99	0.43
1:HQ:15:ARG:CZ	1:HQ:76:VAL:HG22	2.47	0.43
1:HQ:80:ILE:HD12	3:YT:848:ILE:HG21	1.99	0.43
1:NP:27:MET:HE3	1:NP:50:VAL:HG22	2.00	0.43
1:NQ:27:MET:HE3	1:NQ:50:VAL:CG2	2.48	0.43
1:AG:81:ILE:HG22	1:AG:83:ARG:O	2.18	0.43
1:AH:81:ILE:HG22	1:AH:83:ARG:O	2.18	0.43
1:AI:81:ILE:HG22	1:AI:83:ARG:O	2.18	0.43
1:CJ:29:LYS:O	2:PI:9:THR:CG2	2.65	0.43
1:HH:15:ARG:CZ	1:HH:76:VAL:HG22	2.47	0.43
1:NG:12:ILE:HG23	1:NG:75:LEU:HD12	2.00	0.43
1:NG:27:MET:HE3	1:NG:50:VAL:CG2	2.48	0.43
1:EM:79:HIS:HA	3:YM:703:THR:O	2.17	0.43
1:HF:12:ILE:HG23	1:HF:75:LEU:HD12	1.99	0.43
1:NO:80:ILE:O	3:YN:716:PRO:HD3	2.19	0.43
1:Ag:25:ASP:CA	1:Cg:88:VAL:HG21	2.48	0.43
1:Ah:25:ASP:CA	1:Ch:88:VAL:HG21	2.48	0.43
1:Ee:68:CYS:SG	1:Ee:75:LEU:HD13	2.58	0.43
1:Ef:68:CYS:SG	1:Ef:75:LEU:HD13	2.58	0.43
1:Jf:62:ARG:NH2	3:X3:624:SER:CB	2.77	0.43
1:AV:20:ALA:HB1	1:AV:48:VAL:CG2	2.49	0.43
1:AZ:25:ASP:CA	1:CZ:88:VAL:HG21	2.48	0.43
1:BW:41:VAL:HG13	1:IV:40:PHE:CD1	2.52	0.43
1:BZ:11:MET:HB3	1:IY:18:VAL:CG2	2.46	0.43
1:EY:68:CYS:SG	1:EY:75:LEU:HD13	2.58	0.43
1:HZ:80:ILE:HD12	3:YX:848:ILE:HG21	1.99	0.43
1:JX:45:TYR:CE2	3:XX:694:PRO:HG3	2.53	0.43
1:MV:23:ALA:HB2	1:MV:68:CYS:SG	2.58	0.43
1:NW:12:ILE:HG23	1:NW:75:LEU:HD12	2.00	0.43
1:NY:12:ILE:HG23	1:NY:75:LEU:HD12	2.00	0.43
1:NY:27:MET:HE3	1:NY:50:VAL:HG22	2.00	0.43
2:PW:56:SER:O	2:PW:59:ARG:HG3	2.19	0.43
1:AU:20:ALA:HB1	1:AU:48:VAL:CG2	2.49	0.43
1:EU:68:CYS:SG	1:EU:75:LEU:HD13	2.59	0.43
1:Ec:68:CYS:SG	1:Ec:75:LEU:HD13	2.58	0.43
1:GU:78:ALA:HB1	3:Yd:785:VAL:HG13	2.00	0.43
1:Ha:12:ILE:HG23	1:Ha:75:LEU:HD12	1.99	0.43
1:Ha:15:ARG:CZ	1:Ha:76:VAL:HG22	2.47	0.43
1:IU:82:ALA:HB3	1:OU:30:ALA:O	2.17	0.43
1:Mb:23:ALA:HB2	1:Mb:68:CYS:SG	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Au:20:ALA:HB1	1:Au:48:VAL:CG2	2.49	0.43
1:Ax:25:ASP:HA	1:Cx:88:VAL:HG21	1.99	0.43
1:Bu:91:ILE:HD12	1:It:21:ILE:CD1	2.45	0.43
1:Cu:29:LYS:O	2:Pt:9:THR:CG2	2.65	0.43
1:Cw:29:LYS:HE2	2:Pv:45:ILE:CG2	2.49	0.43
1:Dv:79:HIS:CD2	3:X8:617:SER:HB2	2.48	0.43
1:Dx:9:LEU:HG	1:Dx:11:MET:HE2	1.99	0.43
1:Dx:47:THR:CG2	1:Fx:17:LEU:HD23	2.48	0.43
1:Ex:68:CYS:SG	1:Ex:75:LEU:HD13	2.58	0.43
1:Hv:12:ILE:HG23	1:Hv:75:LEU:HD12	1.99	0.43
1:Mw:23:ALA:HB2	1:Mw:68:CYS:SG	2.58	0.43
1:Mx:23:ALA:HB2	1:Mx:68:CYS:SG	2.58	0.43
1:Nu:27:MET:HE3	1:Nu:50:VAL:CG2	2.48	0.43
1:An:25:ASP:CA	1:Cn:88:VAL:HG21	2.48	0.43
1:Hk:8:ALA:HB3	1:Hk:52:GLY:O	2.17	0.43
1:Ml:23:ALA:HB2	1:Ml:68:CYS:SG	2.58	0.43
1:Nn:79:HIS:HA	3:Ym:714:THR:O	2.18	0.43
2:Pl:56:SER:O	2:Pl:59:ARG:HG3	2.18	0.43
3:Xk:643:TYR:CE1	1:Ds:55:GLY:HA2	2.54	0.43
1:Aq:20:ALA:HB1	1:Aq:48:VAL:CG2	2.49	0.43
1:Ar:25:ASP:CA	1:Cr:88:VAL:HG21	2.48	0.43
1:Ej:68:CYS:SG	1:Ej:75:LEU:HD13	2.59	0.43
1:Ep:77:ALA:HB2	1:Dh:72:GLY:HA2	1.99	0.43
1:Fj:24:ALA:HB2	1:Fj:48:VAL:HG11	1.98	0.43
1:Hp:12:ILE:HG23	1:Hp:75:LEU:HD12	1.99	0.43
1:Np:27:MET:HE3	1:Np:50:VAL:CG2	2.48	0.43
3:XY:618:GLY:HA3	1:Dn:80:ILE:H	1.82	0.43
1:FY:72:GLY:CA	1:DY:77:ALA:HB2	2.46	0.43
3:Xa:700:ASN:HD22	3:Xa:700:ASN:HA	1.63	0.43
1:JI:45:TYR:CE2	3:XI:694:PRO:HG3	2.53	0.43
1:MK:23:ALA:HB2	1:MK:68:CYS:SG	2.58	0.43
1:AE:20:ALA:HB1	1:AE:48:VAL:CG2	2.49	0.43
1:CB:29:LYS:O	2:PA:9:THR:CG2	2.66	0.43
1:HB:15:ARG:CZ	1:HB:76:VAL:HG22	2.47	0.43
1:LC:32:GLU:HB2	1:Ju:7:ILE:HD11	2.00	0.43
1:ME:23:ALA:HB2	1:ME:68:CYS:SG	2.58	0.43
1:NB:27:MET:HE3	1:NB:50:VAL:CG2	2.48	0.43
1:A2:25:ASP:HA	1:C2:88:VAL:HG21	1.98	0.43
1:A4:20:ALA:HB1	1:A4:48:VAL:CG2	2.49	0.43
1:G5:62:ARG:HG2	3:Y4:785:VAL:HG21	2.00	0.43
1:H3:80:ILE:CD1	3:Y1:848:ILE:CG2	2.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A0:25:ASP:CA	1:C0:88:VAL:HG21	2.48	0.43
1:B8:91:ILE:HD11	1:I7:21:ILE:HD13	1.99	0.43
1:F7:72:GLY:HA2	1:D7:77:ALA:CB	2.38	0.43
1:K6:58:ASN:OD1	3:Y0:802:VAL:CG1	2.66	0.43
1:M6:30:ALA:O	1:MN:82:ALA:HB3	2.19	0.43
1:N6:80:ILE:O	3:Y0:716:PRO:HD2	2.18	0.43
1:N7:12:ILE:HG23	1:N7:75:LEU:HD12	2.00	0.43
1:N9:80:ILE:O	3:Y8:716:PRO:HD3	2.19	0.43
3:X6:626:LEU:H	3:X6:626:LEU:HD12	1.83	0.43
1:AQ:25:ASP:CA	1:CQ:88:VAL:HG21	2.48	0.43
1:AS:81:ILE:HG22	1:AS:83:ARG:O	2.18	0.43
1:CQ:29:LYS:HE2	2:PP:45:ILE:CG2	2.49	0.43
1:ES:68:CYS:SG	1:ES:75:LEU:HD13	2.59	0.43
1:HR:15:ARG:CZ	1:HR:76:VAL:HG22	2.47	0.43
1:HT:80:ILE:HD12	3:YR:848:ILE:HG21	1.99	0.43
1:LQ:65:ALA:HB3	3:XQ:636:GLN:HG2	2.00	0.43
1:MR:23:ALA:HB2	1:MR:68:CYS:SG	2.58	0.43
1:MS:23:ALA:HB2	1:MS:68:CYS:SG	2.58	0.43
3:XQ:693:THR:HG23	3:XQ:694:PRO:HD2	1.99	0.43
1:BH:41:VAL:HG13	1:IG:40:PHE:CD1	2.52	0.43
1:BI:66:ASP:OD1	3:YH:720:ALA:HB2	2.18	0.43
1:CH:29:LYS:HE2	2:PG:45:ILE:CG2	2.49	0.43
1:CI:25:ASP:HA	1:HH:88:VAL:CG2	2.48	0.43
1:HG:15:ARG:CZ	1:HG:76:VAL:HG22	2.47	0.43
1:HI:80:ILE:CD1	3:YG:848:ILE:CG2	2.95	0.43
1:MG:23:ALA:HB2	1:MG:68:CYS:SG	2.58	0.43
1:OG:79:HIS:HA	3:XG:714:THR:O	2.19	0.43
3:XK:643:TYR:CZ	1:Dm:58:ASN:CB	2.92	0.43
1:AF:20:ALA:HB1	1:AF:48:VAL:CG2	2.49	0.43
1:AM:20:ALA:HB1	1:AM:48:VAL:CG2	2.49	0.43
1:BM:11:MET:HB3	1:IL:18:VAL:CG2	2.46	0.43
1:EO:68:CYS:SG	1:EO:75:LEU:HD13	2.58	0.43
1:FN:62:ARG:HD3	3:XN:717:GLY:O	2.19	0.43
1:NN:27:MET:HE3	1:NN:50:VAL:HG22	2.00	0.43
1:Ae:81:ILE:HG22	1:Ae:83:ARG:O	2.18	0.43
1:Ai:20:ALA:HB1	1:Ai:48:VAL:CG2	2.48	0.43
1:Ce:18:VAL:HG23	1:Hi:47:THR:HG23	2.00	0.43
1:Cg:25:ASP:HA	1:Hf:88:VAL:CG2	2.48	0.43
1:Di:21:ILE:HG21	1:EV:92:LEU:HD21	2.00	0.43
1:Ee:87:GLU:OE1	1:Dc:28:THR:HG21	2.17	0.43
1:Gg:68:CYS:HA	1:Gg:71:VAL:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Mf:23:ALA:HB2	1:Mf:68:CYS:SG	2.58	0.43
1:Nh:27:MET:HE3	1:Nh:50:VAL:HG22	2.00	0.43
3:Xi:632:ILE:H	3:Xi:632:ILE:HG12	1.62	0.43
1:AX:20:ALA:HB1	1:AX:48:VAL:CG2	2.49	0.43
1:EW:54:THR:HG22	3:YW:707:ILE:HG12	2.01	0.43
1:GZ:62:ARG:HG2	3:YY:785:VAL:HG21	2.00	0.43
1:MX:23:ALA:HB2	1:MX:68:CYS:SG	2.58	0.43
1:Cc:62:ARG:HD2	2:Pb:21:HIS:CE1	2.53	0.43
1:Dc:9:LEU:HG	1:Dc:11:MET:HE2	1.99	0.43
1:Gc:68:CYS:HA	1:Gc:71:VAL:HG12	1.99	0.43
1:Du:9:LEU:HG	1:Du:11:MET:HE2	1.99	0.43
1:Ev:68:CYS:SG	1:Ev:75:LEU:HD13	2.58	0.43
1:Iu:82:ALA:HB3	1:Ou:30:ALA:O	2.17	0.43
1:Kt:58:ASN:OD1	3:Yx:802:VAL:CG1	2.66	0.43
1:An:81:ILE:HG22	1:An:83:ARG:O	2.18	0.43
1:Ck:18:VAL:HG23	1:Ho:47:THR:HG23	2.00	0.43
1:En:68:CYS:SG	1:En:75:LEU:HD13	2.58	0.43
1:Gm:68:CYS:HA	1:Gm:71:VAL:HG12	1.99	0.43
1:Go:68:CYS:HA	1:Go:71:VAL:HG12	1.99	0.43
2:Pl:4:MET:HE3	2:Pl:29:GLU:HG3	1.99	0.43
3:Yl:867:ALA:O	3:Yl:868:ARG:C	2.60	0.43
1:As:81:ILE:HG22	1:As:83:ARG:O	2.18	0.43
1:Es:68:CYS:SG	1:Es:75:LEU:HD13	2.58	0.43
1:Kp:58:ASN:OD1	3:Yj:802:VAL:CG1	2.66	0.43
1:Ms:23:ALA:HB2	1:Ms:68:CYS:SG	2.58	0.43
1:Nj:12:ILE:HG23	1:Nj:75:LEU:HD12	2.00	0.43
1:DD:58:ASN:HD21	1:DD:62:ARG:HH11	1.64	0.43
3:X7:616:ILE:HG13	1:DM:62:ARG:CZ	2.49	0.43
1:DM:9:LEU:HG	1:DM:11:MET:HE2	1.99	0.43
3:Xn:647:GLN:H	3:Xn:647:GLN:HG3	1.53	0.43
1:Dq:58:ASN:HD21	1:Dq:62:ARG:HH11	1.65	0.43
1:FF:72:GLY:HA2	1:DF:77:ALA:CB	2.45	0.43
1:Nm:27:MET:HE3	1:Nm:50:VAL:HG22	2.00	0.43
1:DU:9:LEU:HG	1:DU:11:MET:HE2	1.99	0.43
1:CB:29:LYS:HE2	2:PA:45:ILE:CG2	2.49	0.43
1:CC:25:ASP:HA	1:HB:88:VAL:CG2	2.48	0.43
1:EC:68:CYS:SG	1:EC:75:LEU:HD13	2.58	0.43
1:GD:68:CYS:HA	1:GD:71:VAL:HG12	1.99	0.43
1:HC:80:ILE:CD1	3:YA:848:ILE:CG2	2.95	0.43
1:MA:23:ALA:HB2	1:MA:68:CYS:SG	2.58	0.43
1:A1:25:ASP:CA	1:C1:88:VAL:HG21	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A3:81:ILE:HG22	1:A3:83:ARG:O	2.18	0.43
1:B2:91:ILE:HD12	1:I1:21:ILE:CD1	2.45	0.43
1:B4:11:MET:HB3	1:I3:18:VAL:CG2	2.45	0.43
1:D3:72:GLY:HA2	1:Eb:77:ALA:HB2	2.00	0.43
1:J2:45:TYR:CZ	3:X2:694:PRO:HG3	2.53	0.43
1:K1:58:ASN:OD1	3:Y5:802:VAL:CG1	2.66	0.43
1:M1:23:ALA:HB2	1:M1:68:CYS:SG	2.58	0.43
1:M5:23:ALA:HB2	1:M5:68:CYS:SG	2.58	0.43
1:A0:20:ALA:HB1	1:A0:48:VAL:CG2	2.49	0.43
1:C0:18:VAL:HG13	1:H9:11:MET:HE3	2.00	0.43
1:G0:42:GLY:C	1:G0:44:GLY:H	2.19	0.43
1:M8:23:ALA:HB2	1:M8:68:CYS:SG	2.58	0.43
1:NR:27:MET:HE3	1:NR:50:VAL:HG22	2.00	0.43
1:NS:12:ILE:HG23	1:NS:75:LEU:HD12	2.00	0.43
1:AI:75:LEU:HD23	3:YH:774:VAL:HB	2.00	0.43
1:AK:20:ALA:HB1	1:AK:48:VAL:CG2	2.49	0.43
1:CG:18:VAL:HG23	1:HK:47:THR:HG23	2.00	0.43
1:CH:29:LYS:O	2:PG:9:THR:CG2	2.66	0.43
1:EH:87:GLU:OE1	1:DU:28:THR:HG21	2.17	0.43
1:FJ:17:LEU:HD23	1:DJ:47:THR:HG21	2.00	0.43
1:GH:7:ILE:HB	1:GH:51:ARG:HH21	1.83	0.43
1:IK:62:ARG:HD2	3:XK:730:PHE:HB2	2.00	0.43
1:AL:81:ILE:HG22	1:AL:83:ARG:O	2.18	0.43
1:AO:25:ASP:CA	1:CO:88:VAL:HG21	2.48	0.43
1:DL:47:THR:CG2	1:FL:17:LEU:HD23	2.48	0.43
1:DO:36:VAL:O	1:DO:95:ALA:HB3	2.17	0.43
1:GF:78:ALA:HB1	3:YO:785:VAL:HG13	2.00	0.43
1:KL:58:ASN:OD1	3:YF:802:VAL:CG1	2.66	0.43
1:MM:23:ALA:HB2	1:MM:68:CYS:SG	2.58	0.43
1:MO:23:ALA:HB2	1:MO:68:CYS:SG	2.58	0.43
3:XL:626:LEU:H	3:XL:626:LEU:HD12	1.83	0.43
3:YM:867:ALA:O	3:YM:868:ARG:C	2.60	0.43
1:Ae:20:ALA:HB1	1:Ae:48:VAL:CG2	2.49	0.43
1:Ae:25:ASP:CA	1:Ce:88:VAL:HG21	2.48	0.43
1:Bg:91:ILE:HD12	1:If:21:ILE:CD1	2.48	0.43
1:Cg:62:ARG:HD2	2:Pf:21:HIS:CE1	2.53	0.43
1:Eh:68:CYS:SG	1:Eh:75:LEU:HD13	2.58	0.43
1:Ke:80:ILE:CD1	3:Yi:806:ILE:HG21	2.49	0.43
1:Mh:23:ALA:HB2	1:Mh:68:CYS:SG	2.58	0.43
1:Ne:27:MET:HE3	1:Ne:50:VAL:HG22	2.00	0.43
1:Ng:12:ILE:HG23	1:Ng:75:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pf:4:MET:HE3	2:Pf:29:GLU:HG3	1.99	0.43
2:Pg:4:MET:HE3	2:Pg:29:GLU:HG3	1.99	0.43
3:Yf:867:ALA:O	3:Yf:868:ARG:C	2.60	0.43
1:AX:25:ASP:HA	1:CX:88:VAL:HG21	1.98	0.43
1:AY:20:ALA:HB1	1:AY:48:VAL:CG2	2.49	0.43
1:BZ:91:ILE:HD12	1:IY:21:ILE:CD1	2.44	0.43
1:CX:62:ARG:HD2	2:PW:21:HIS:CE1	2.53	0.43
1:DX:9:LEU:HG	1:DX:11:MET:HE2	1.99	0.43
1:HW:8:ALA:HB3	1:HW:52:GLY:O	2.17	0.43
1:MW:23:ALA:HB2	1:MW:68:CYS:SG	2.58	0.43
1:NX:27:MET:HE3	1:NX:50:VAL:CG2	2.48	0.43
1:NY:27:MET:HE3	1:NY:50:VAL:CG2	2.48	0.43
1:NZ:27:MET:HE3	1:NZ:50:VAL:CG2	2.48	0.43
1:OX:79:HIS:HA	3:XX:714:THR:O	2.18	0.43
1:Cb:29:LYS:HE2	2:Pa:45:ILE:CG2	2.49	0.43
1:Ea:68:CYS:SG	1:Ea:75:LEU:HD13	2.58	0.43
1:MU:23:ALA:HB2	1:MU:68:CYS:SG	2.58	0.43
3:XU:696:ARG:HG2	3:XU:700:ASN:HA	2.00	0.43
1:Aw:22:GLU:OE2	3:Yu:865:GLY:N	2.25	0.43
1:Cu:29:LYS:HE2	2:Pt:45:ILE:CG2	2.49	0.43
1:Ev:79:HIS:CE1	1:D7:71:VAL:HG21	2.53	0.43
1:Kv:80:ILE:CD1	3:Yu:806:ILE:HG21	2.47	0.43
1:Lu:65:ALA:HB3	3:Xu:636:GLN:HG2	2.00	0.43
2:Pw:37:VAL:HG12	2:Px:1:MET:HE2	2.00	0.43
1:Ak:20:ALA:HB1	1:Ak:48:VAL:CG2	2.49	0.43
1:Ak:81:ILE:HG22	1:Ak:83:ARG:O	2.18	0.43
1:Co:18:VAL:HG22	1:Hn:11:MET:CB	2.47	0.43
1:Io:82:ALA:HB3	1:Oo:30:ALA:O	2.17	0.43
1:Kk:80:ILE:CD1	3:Yo:806:ILE:HG21	2.49	0.43
1:Nn:27:MET:HE3	1:Nn:50:VAL:HG22	1.99	0.43
2:Pm:4:MET:HE3	2:Pm:29:GLU:HG3	1.99	0.43
2:Pn:14:ASN:O	2:Po:42:ILE:HD12	2.17	0.43
3:Xl:725:THR:O	1:Fl:79:HIS:HA	2.18	0.43
3:Yo:867:ALA:O	3:Yo:868:ARG:C	2.60	0.43
1:As:20:ALA:HB1	1:As:48:VAL:CG2	2.49	0.43
1:Bq:11:MET:HB3	1:Ip:18:VAL:CG2	2.46	0.43
1:Kp:80:ILE:CD1	3:Yj:806:ILE:HG21	2.49	0.43
1:Mp:23:ALA:HB2	1:Mp:68:CYS:SG	2.58	0.43
1:Np:80:ILE:O	3:Yj:716:PRO:HD2	2.18	0.43
1:Nq:12:ILE:HG23	1:Nq:75:LEU:HD12	2.00	0.43
1:Nq:27:MET:HE3	1:Nq:50:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EI:68:CYS:SG	1:EI:75:LEU:HD13	2.58	0.43
3:Xq:646:ALA:HB2	1:Dh:62:ARG:HH12	1.83	0.43
3:Y3:867:ALA:O	3:Y3:868:ARG:C	2.60	0.43
1:Nm:12:ILE:HG23	1:Nm:75:LEU:HD12	2.00	0.43
1:NC:12:ILE:HG23	1:NC:75:LEU:HD12	2.00	0.43
1:A2:20:ALA:HB1	1:A2:48:VAL:CG2	2.49	0.43
1:A5:20:ALA:HB1	1:A5:48:VAL:CG2	2.49	0.43
1:C3:62:ARG:HD2	2:P2:21:HIS:CE1	2.53	0.43
1:D5:9:LEU:HG	1:D5:11:MET:HE2	1.99	0.43
1:M4:23:ALA:HB2	1:M4:68:CYS:SG	2.58	0.43
1:M4:29:LYS:NZ	1:LS:29:LYS:O	2.50	0.43
1:N4:29:LYS:HE2	1:Db:29:LYS:O	2.18	0.43
1:N5:27:MET:HE3	1:N5:50:VAL:HG22	2.00	0.43
1:D0:80:ILE:HD12	3:XR:616:ILE:HG22	1.90	0.43
1:N6:12:ILE:HG23	1:N6:75:LEU:HD12	2.00	0.43
2:P6:57:ALA:CB	2:P0:68:PRO:O	2.66	0.43
3:X0:727:THR:HA	3:X0:728:PRO:HD3	1.89	0.43
1:AQ:20:ALA:HB1	1:AQ:48:VAL:CG2	2.49	0.43
1:CP:18:VAL:HG23	1:HT:47:THR:HG23	2.00	0.43
1:CS:29:LYS:HE2	2:PR:45:ILE:CG2	2.49	0.43
1:DT:25:ASP:CA	1:EG:88:VAL:HG21	2.49	0.43
1:KR:80:ILE:CD1	3:YQ:806:ILE:HG21	2.47	0.43
1:MS:30:ALA:O	1:Mb:82:ALA:HB3	2.17	0.43
1:MT:23:ALA:HB2	1:MT:68:CYS:SG	2.58	0.43
1:NR:12:ILE:HG23	1:NR:75:LEU:HD12	2.00	0.43
3:YT:867:ALA:O	3:YT:868:ARG:C	2.60	0.43
1:GG:68:CYS:HA	1:GG:71:VAL:HG12	1.99	0.43
1:GJ:68:CYS:HA	1:GJ:71:VAL:HG12	1.99	0.43
1:JK:45:TYR:CZ	3:XK:694:PRO:HG3	2.53	0.43
1:AN:20:ALA:HB1	1:AN:48:VAL:CG2	2.49	0.43
1:MN:23:ALA:HB2	1:MN:68:CYS:SG	2.58	0.43
3:XF:696:ARG:HG2	3:XF:700:ASN:HA	2.00	0.43
1:Ag:81:ILE:HG22	1:Ag:83:ARG:O	2.18	0.43
1:Gi:68:CYS:HA	1:Gi:71:VAL:HG12	1.99	0.43
1:Jf:62:ARG:HG2	3:X3:627:VAL:HG21	2.01	0.43
1:Nf:12:ILE:HG23	1:Nf:75:LEU:HD12	2.00	0.43
1:Nf:27:MET:HE3	1:Nf:50:VAL:HG22	2.00	0.43
1:Ng:27:MET:HE3	1:Ng:50:VAL:HG22	2.00	0.43
2:Ph:37:VAL:HG12	2:Pi:1:MET:HE2	2.00	0.43
1:CY:29:LYS:HE2	2:PX:45:ILE:CG2	2.49	0.43
1:EY:87:GLU:OE1	1:DI:28:THR:CG2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KW:62:ARG:HA	3:YV:806:ILE:HD11	2.01	0.43
1:Ac:75:LEU:HD23	3:Yb:774:VAL:HB	2.00	0.43
1:Dx:21:ILE:HG21	1:Ek:92:LEU:HD21	2.00	0.43
3:Xt:691:ILE:H	3:Xt:691:ILE:HG13	1.45	0.43
3:Yt:867:ALA:O	3:Yt:868:ARG:C	2.60	0.43
1:Ao:20:ALA:HB1	1:Ao:48:VAL:CG2	2.48	0.43
1:Ao:25:ASP:CA	1:Co:88:VAL:HG21	2.48	0.43
1:Eo:68:CYS:SG	1:Eo:75:LEU:HD13	2.58	0.43
1:Jn:62:ARG:NE	3:XY:624:SER:H	2.16	0.43
1:Nl:12:ILE:HG23	1:Nl:75:LEU:HD12	2.00	0.43
1:Nn:27:MET:HE3	1:Nn:50:VAL:CG2	2.48	0.43
1:Ap:20:ALA:HB1	1:Ap:48:VAL:CG2	2.49	0.43
1:Ap:25:ASP:HA	1:Cp:88:VAL:HG21	1.98	0.43
1:Ar:81:ILE:HG22	1:Ar:83:ARG:O	2.18	0.43
1:Dp:9:LEU:HG	1:Dp:11:MET:HE2	1.99	0.43
1:Gq:68:CYS:HA	1:Gq:71:VAL:HG12	1.99	0.43
1:Hj:8:ALA:HB3	1:Hj:52:GLY:O	2.17	0.43
1:Ij:62:ARG:HD3	3:Xj:728:PRO:O	2.18	0.43
1:Mj:23:ALA:HB2	1:Mj:68:CYS:SG	2.58	0.43
1:D4:41:VAL:HB	1:D4:45:TYR:HB2	2.01	0.43
1:DS:9:LEU:HD22	1:DS:92:LEU:HD13	1.99	0.43
3:Xc:623:ALA:HB2	3:Xc:634:GLU:OE2	2.18	0.43
1:EL:18:VAL:HB	1:EL:19:PRO:HD3	2.01	0.43
3:XM:724:ILE:H	3:XM:724:ILE:HG13	1.52	0.43
1:AD:20:ALA:HB1	1:AD:48:VAL:CG2	2.49	0.43
1:CA:18:VAL:HG23	1:HE:47:THR:HG23	2.00	0.43
1:ED:68:CYS:SG	1:ED:75:LEU:HD13	2.59	0.43
1:LC:62:ARG:NH1	3:XC:634:GLU:HA	2.30	0.43
1:NE:27:MET:HE3	1:NE:50:VAL:CG2	2.48	0.43
3:XB:643:TYR:HE1	1:D8:58:ASN:HB3	1.84	0.43
1:A2:81:ILE:HG22	1:A2:83:ARG:O	2.18	0.43
1:N4:27:MET:HE3	1:N4:50:VAL:HG22	2.00	0.43
1:N5:12:ILE:HG23	1:N5:75:LEU:HD12	2.00	0.43
3:X1:643:TYR:CE1	1:D9:55:GLY:HA2	2.54	0.43
1:C7:29:LYS:HE2	2:P6:45:ILE:CG2	2.49	0.43
1:E6:68:CYS:SG	1:E6:75:LEU:HD13	2.58	0.43
1:E9:68:CYS:SG	1:E9:75:LEU:HD13	2.59	0.43
1:N7:27:MET:HE3	1:N7:50:VAL:HG22	2.00	0.43
1:AT:81:ILE:HG22	1:AT:83:ARG:O	2.18	0.43
1:CR:18:VAL:HG23	1:HQ:47:THR:HG23	2.00	0.43
1:DP:28:THR:O	1:LO:83:ARG:NH1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ER:54:THR:HG22	3:YR:707:ILE:HG12	2.00	0.43
1:AJ:20:ALA:HB1	1:AJ:48:VAL:CG2	2.49	0.43
1:EJ:68:CYS:SG	1:EJ:75:LEU:HD13	2.58	0.43
1:FH:59:ALA:HB1	3:XH:716:PRO:HB2	2.00	0.43
1:NK:27:MET:HE3	1:NK:50:VAL:CG2	2.48	0.43
1:CL:18:VAL:HG23	1:HF:47:THR:HG23	2.00	0.43
1:DL:9:LEU:HG	1:DL:11:MET:HE2	1.99	0.43
1:DN:9:LEU:HG	1:DN:11:MET:HE2	1.99	0.43
1:EN:68:CYS:SG	1:EN:75:LEU:HD13	2.58	0.43
1:KO:62:ARG:HA	3:YN:806:ILE:HD11	2.01	0.43
3:YO:867:ALA:O	3:YO:868:ARG:C	2.60	0.43
1:Ah:20:ALA:HB1	1:Ah:48:VAL:CG2	2.49	0.43
1:Ai:25:ASP:CA	1:Ci:88:VAL:HG21	2.48	0.43
1:Cg:79:HIS:HD2	3:Ye:862:THR:OG1	2.02	0.43
1:Ci:18:VAL:HG22	1:Hh:11:MET:CB	2.47	0.43
1:Di:47:THR:CG2	1:Fi:17:LEU:HD23	2.48	0.43
1:Ee:85:HIS:NE2	1:Dc:28:THR:HG22	2.34	0.43
1:Ei:68:CYS:SG	1:Ei:75:LEU:HD13	2.58	0.43
1:He:12:ILE:HG23	1:He:75:LEU:HD12	1.99	0.43
1:Ii:82:ALA:HB3	1:Oi:30:ALA:O	2.17	0.43
1:Nh:27:MET:HE3	1:Nh:50:VAL:CG2	2.48	0.43
3:Xi:693:THR:HG23	3:Xi:694:PRO:HD2	1.99	0.43
1:AV:81:ILE:HG22	1:AV:83:ARG:O	2.18	0.43
1:AZ:81:ILE:HG22	1:AZ:83:ARG:O	2.18	0.43
1:GY:68:CYS:HA	1:GY:71:VAL:HG12	1.99	0.43
1:NY:79:HIS:HA	3:YX:714:THR:O	2.18	0.43
3:YY:867:ALA:O	3:YY:868:ARG:C	2.60	0.43
1:IU:62:ARG:HD3	3:XU:728:PRO:O	2.18	0.43
2:Pb:4:MET:HE3	2:Pb:29:GLU:HG3	1.99	0.43
3:XU:699:GLN:O	3:XU:700:ASN:C	2.59	0.43
3:Ya:867:ALA:O	3:Ya:868:ARG:C	2.60	0.43
3:Yd:867:ALA:O	3:Yd:868:ARG:C	2.60	0.43
1:Ev:88:VAL:CG2	1:D7:25:ASP:OD1	2.66	0.43
1:Gu:14:THR:HB	1:Gu:19:PRO:HB2	2.01	0.43
1:Gx:62:ARG:HG2	3:Yw:785:VAL:HG21	2.00	0.43
1:Mu:23:ALA:HB2	1:Mu:68:CYS:SG	2.58	0.43
2:Pt:57:ALA:HB1	2:Px:68:PRO:HA	2.00	0.43
3:Yv:867:ALA:O	3:Yv:868:ARG:C	2.60	0.43
1:Ak:25:ASP:CA	1:Ck:88:VAL:HG21	2.48	0.43
1:Am:81:ILE:HG22	1:Am:83:ARG:O	2.18	0.43
1:An:20:ALA:HB1	1:An:48:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Cm:62:ARG:HD2	2:Pl:21:HIS:CE1	2.53	0.43
1:Fn:17:LEU:HD22	1:Dn:39:GLN:NE2	2.16	0.43
1:Mk:23:ALA:HB2	1:Mk:68:CYS:SG	2.58	0.43
1:Mn:23:ALA:HB2	1:Mn:68:CYS:SG	2.58	0.43
1:Nk:27:MET:HE3	1:Nk:50:VAL:HG22	2.00	0.43
1:Aj:81:ILE:HG22	1:Aj:83:ARG:O	2.18	0.43
1:Cr:79:HIS:HD2	3:Yp:862:THR:OG1	2.02	0.43
1:Jq:80:ILE:HD11	3:XD:627:VAL:HG11	1.99	0.43
3:Yq:867:ALA:O	3:Yq:868:ARG:C	2.60	0.43
3:Xw:693:THR:HG23	3:Xw:694:PRO:HD2	1.99	0.43
1:Fh:18:VAL:HG23	1:Dh:13:GLU:HB2	2.01	0.43
1:JF:91:ILE:CG2	1:MF:35:LEU:CD2	2.97	0.43
1:AE:81:ILE:HG22	1:AE:83:ARG:O	2.18	0.43
1:EE:68:CYS:SG	1:EE:75:LEU:HD13	2.58	0.43
1:KA:80:ILE:CD1	3:YE:806:ILE:HG21	2.49	0.43
1:A4:81:ILE:HG22	1:A4:83:ARG:O	2.18	0.43
1:B4:66:ASP:OD2	3:Y3:719:LEU:HB2	2.19	0.43
1:D3:9:LEU:HG	1:D3:11:MET:HE2	1.99	0.43
1:D3:47:THR:CG2	1:F3:17:LEU:HD23	2.48	0.43
1:E5:68:CYS:SG	1:E5:75:LEU:HD13	2.58	0.43
1:G2:7:ILE:HB	1:G2:51:ARG:HH21	1.83	0.43
3:Y1:867:ALA:O	3:Y1:868:ARG:C	2.60	0.43
3:Y8:867:ALA:O	3:Y8:868:ARG:C	2.60	0.43
1:AT:20:ALA:HB1	1:AT:48:VAL:CG2	2.49	0.43
1:CT:18:VAL:HG13	1:HS:11:MET:HE3	2.00	0.43
1:EP:68:CYS:SG	1:EP:75:LEU:HD13	2.58	0.43
1:ER:68:CYS:SG	1:ER:75:LEU:HD13	2.58	0.43
1:HT:57:VAL:HG12	1:HT:80:ILE:HG23	2.01	0.43
1:KP:58:ASN:OD1	3:YT:802:VAL:CG1	2.66	0.43
1:AK:81:ILE:HG22	1:AK:83:ARG:O	2.18	0.43
1:EK:68:CYS:SG	1:EK:75:LEU:HD13	2.58	0.43
1:JH:45:TYR:CZ	3:XH:694:PRO:HG3	2.53	0.43
1:NJ:79:HIS:HA	3:YI:714:THR:O	2.18	0.43
1:AF:81:ILE:HG22	1:AF:83:ARG:O	2.18	0.43
1:AM:81:ILE:HG22	1:AM:83:ARG:O	2.18	0.43
1:AO:81:ILE:HG22	1:AO:83:ARG:O	2.18	0.43
1:EM:68:CYS:SG	1:EM:75:LEU:HD13	2.58	0.43
1:KM:62:ARG:HA	3:YL:806:ILE:HD11	2.01	0.43
1:NN:12:ILE:HG23	1:NN:75:LEU:HD12	2.00	0.43
3:YL:867:ALA:O	3:YL:868:ARG:C	2.60	0.43
3:YN:867:ALA:O	3:YN:868:ARG:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Af:20:ALA:HB1	1:Af:48:VAL:CG2	2.49	0.43
1:Eg:85:HIS:CB	1:DD:28:THR:HG21	2.45	0.43
1:Ni:12:ILE:HG23	1:Ni:75:LEU:HD12	2.00	0.43
2:Pf:68:PRO:HA	2:Pg:57:ALA:HB1	2.01	0.43
1:AW:81:ILE:HG22	1:AW:83:ARG:O	2.18	0.43
1:DW:35:LEU:HD23	1:Ej:91:ILE:CG2	2.48	0.43
1:Ab:20:ALA:HB1	1:Ab:48:VAL:CG2	2.49	0.43
1:Ka:58:ASN:OD1	3:YU:802:VAL:CG1	2.66	0.43
1:Kb:62:ARG:HA	3:Ya:806:ILE:HD11	2.01	0.43
1:LU:62:ARG:HH22	3:XU:649:THR:HG23	1.83	0.43
1:NU:27:MET:HE3	1:NU:50:VAL:HG22	2.00	0.43
1:Nb:12:ILE:HG23	1:Nb:75:LEU:HD12	2.00	0.43
1:Nd:80:ILE:O	3:Yc:716:PRO:HD3	2.19	0.43
1:Aw:20:ALA:HB1	1:Aw:48:VAL:CG2	2.49	0.43
1:Cv:79:HIS:HD2	3:Yt:862:THR:OG1	2.02	0.43
1:Dx:28:THR:O	1:Ll:83:ARG:NH1	2.49	0.43
1:Fw:72:GLY:CA	1:Dw:77:ALA:CB	2.85	0.43
1:Gx:68:CYS:HA	1:Gx:71:VAL:HG12	1.99	0.43
1:Kt:80:ILE:CD1	3:Yx:806:ILE:HG21	2.49	0.43
1:Nw:12:ILE:HG23	1:Nw:75:LEU:HD12	2.00	0.43
2:Pu:68:PRO:HA	2:Pv:57:ALA:HB1	2.01	0.43
1:Bm:66:ASP:OD1	3:Yl:720:ALA:HB2	2.18	0.43
1:Cl:29:LYS:HE2	2:Pk:45:ILE:HG22	2.01	0.43
1:Cm:79:HIS:HD2	3:Yk:862:THR:OG1	2.02	0.43
1:Do:47:THR:CG2	1:Fo:17:LEU:HD23	2.48	0.43
1:Hk:12:ILE:HG23	1:Hk:75:LEU:HD12	1.99	0.43
1:Hl:57:VAL:HG12	1:Hl:80:ILE:HG23	2.01	0.43
1:Hm:8:ALA:HB3	1:Hm:52:GLY:O	2.17	0.43
1:Kl:62:ARG:HA	3:Yk:806:ILE:HD11	2.01	0.43
1:Eq:79:HIS:HA	3:Yq:703:THR:O	2.18	0.43
1:Fr:62:ARG:HD3	3:Xr:717:GLY:O	2.19	0.43
1:Jj:62:ARG:HG2	3:XX:627:VAL:CG2	2.49	0.43
3:Xp:626:LEU:H	3:Xp:626:LEU:HD12	1.83	0.43
1:J3:13:GLU:HB3	1:J3:76:VAL:HB	2.01	0.43
3:X4:691:ILE:H	3:X4:691:ILE:HG13	1.48	0.43
3:X8:635:GLN:O	3:X8:636:GLN:C	2.62	0.43
1:DM:58:ASN:HD22	1:DM:80:ILE:HD13	1.84	0.43
3:Xn:642:ALA:O	1:DJ:62:ARG:HG3	2.18	0.43
1:LI:80:ILE:HD12	3:XI:638:ILE:HG21	2.00	0.43
1:NI:12:ILE:HG23	1:NI:75:LEU:HD12	2.00	0.43
1:Lm:88:VAL:O	1:Lm:91:ILE:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BD:61:VAL:HG12	3:YC:724:ILE:HD13	2.01	0.43
1:FB:88:VAL:O	1:FB:92:LEU:HG	2.19	0.43
1:HC:57:VAL:HG12	1:HC:80:ILE:HG23	2.01	0.43
1:HD:57:VAL:HG12	1:HD:80:ILE:HG23	2.01	0.43
3:YD:867:ALA:O	3:YD:868:ARG:C	2.60	0.43
1:A3:75:LEU:HD23	3:Y2:774:VAL:HB	2.00	0.43
1:C4:29:LYS:HE2	2:P3:45:ILE:CG2	2.49	0.43
1:C4:29:LYS:HE2	2:P3:45:ILE:HG22	2.01	0.43
1:E2:9:LEU:HD11	1:E2:49:LEU:HD23	2.01	0.43
1:E4:68:CYS:SG	1:E4:75:LEU:HD13	2.58	0.43
1:H5:12:ILE:HG23	1:H5:75:LEU:HD12	1.99	0.43
1:I5:62:ARG:HD2	3:X5:730:PHE:HB2	2.00	0.43
1:K2:62:ARG:HA	3:Y1:806:ILE:HD11	2.01	0.43
1:L5:28:THR:O	1:JR:83:ARG:NH1	2.52	0.43
3:X1:634:GLU:HG3	3:X1:635:GLN:HG3	2.00	0.43
1:A8:20:ALA:HB1	1:A8:48:VAL:CG2	2.49	0.43
1:A8:81:ILE:HG22	1:A8:83:ARG:O	2.18	0.43
1:C9:29:LYS:HE2	2:P8:45:ILE:HG22	2.01	0.43
1:F7:72:GLY:CA	1:D7:77:ALA:HB2	2.37	0.43
1:G7:68:CYS:HA	1:G7:71:VAL:HG12	1.99	0.43
1:H6:57:VAL:HG12	1:H6:80:ILE:HG23	2.01	0.43
1:H8:57:VAL:HG12	1:H8:80:ILE:HG23	2.01	0.43
1:J0:62:ARG:CZ	3:XR:624:SER:N	2.82	0.43
1:DP:18:VAL:HG11	1:EN:77:ALA:HB1	2.00	0.43
1:CH:29:LYS:HE2	2:PG:45:ILE:HG22	2.01	0.43
1:EK:9:LEU:HD11	1:EK:49:LEU:HD23	2.01	0.43
1:KG:80:ILE:CD1	3:YK:806:ILE:HG21	2.49	0.43
3:YJ:867:ALA:O	3:YJ:868:ARG:C	2.60	0.43
1:CM:29:LYS:HE2	2:PL:45:ILE:HG22	2.01	0.43
1:GF:94:LYS:H	1:GF:94:LYS:HG3	1.53	0.43
1:LO:80:ILE:HD12	3:XO:638:ILE:HG21	2.01	0.43
3:YL:703:THR:CB	1:EL:79:HIS:HD1	2.31	0.43
1:Ag:75:LEU:HD23	3:Yf:774:VAL:HB	2.00	0.43
1:Di:9:LEU:HG	1:Di:11:MET:HE2	1.99	0.43
1:Eg:54:THR:HG22	3:Yg:707:ILE:HG12	2.00	0.43
1:Hg:8:ALA:HB3	1:Hg:52:GLY:O	2.17	0.43
1:Kf:62:ARG:HA	3:Ye:806:ILE:HD11	2.01	0.43
1:Me:23:ALA:HB2	1:Me:68:CYS:SG	2.58	0.43
3:Xi:616:ILE:CG2	1:Dp:80:ILE:CD1	2.97	0.43
3:Xi:621:VAL:CG2	1:Dp:58:ASN:HD21	2.22	0.43
1:AY:81:ILE:HG22	1:AY:83:ARG:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AZ:20:ALA:HB1	1:AZ:48:VAL:CG2	2.49	0.43
1:HW:80:ILE:CD1	3:YZ:848:ILE:CG2	2.96	0.43
1:NX:12:ILE:HG23	1:NX:75:LEU:HD12	2.00	0.43
1:Ab:81:ILE:HG22	1:Ab:83:ARG:O	2.18	0.43
1:Bd:41:VAL:HG13	1:Ic:40:PHE:HD1	1.84	0.43
1:Gd:68:CYS:HA	1:Gd:71:VAL:HG12	1.99	0.43
1:Hb:57:VAL:HG12	1:Hb:80:ILE:HG23	2.01	0.43
1:Nc:27:MET:HE3	1:Nc:50:VAL:HG22	2.00	0.43
1:Hw:57:VAL:HG12	1:Hw:80:ILE:HG23	2.01	0.43
3:Xv:693:THR:HG23	3:Xv:694:PRO:HD2	1.99	0.43
1:Io:62:ARG:HD2	3:Xo:730:PHE:HB2	2.00	0.43
1:Kn:62:ARG:HA	3:Ym:806:ILE:HD11	2.01	0.43
1:No:12:ILE:HG23	1:No:75:LEU:HD12	2.00	0.43
1:Ar:20:ALA:HB1	1:Ar:48:VAL:CG2	2.49	0.43
1:Cq:29:LYS:HE2	2:Pp:45:ILE:CG2	2.49	0.43
1:Nj:27:MET:HE3	1:Nj:50:VAL:HG22	1.99	0.43
1:Np:12:ILE:HG23	1:Np:75:LEU:HD12	2.00	0.43
1:Ns:27:MET:HE3	1:Ns:50:VAL:CG2	2.48	0.43
2:Pp:57:ALA:CB	2:Pj:68:PRO:O	2.66	0.43
3:XS:693:THR:HG23	3:XS:694:PRO:HD2	1.99	0.43
3:Xq:700:ASN:HD22	3:Xq:700:ASN:HA	1.63	0.43
3:XM:644:VAL:HB	3:XM:648:GLN:HE21	1.84	0.43
1:Fl:88:VAL:O	1:Fl:92:LEU:HG	2.19	0.43
1:BA:62:ARG:HB3	3:YE:720:ALA:HB3	2.01	0.43
1:BC:91:ILE:HD11	1:IB:21:ILE:HD13	1.99	0.43
1:CB:29:LYS:HE2	2:PA:45:ILE:HG22	2.01	0.43
1:CD:29:LYS:HE2	2:PC:45:ILE:HG22	2.01	0.43
1:EE:9:LEU:HD11	1:EE:49:LEU:HD23	2.01	0.43
1:EE:90:ASN:CB	1:D1:97:GLN:HA	2.29	0.43
1:A5:81:ILE:HG22	1:A5:83:ARG:O	2.18	0.43
1:C1:18:VAL:HG23	1:H5:47:THR:HG23	2.00	0.43
1:C2:29:LYS:HE2	2:P1:45:ILE:CG2	2.49	0.43
1:K4:62:ARG:HA	3:Y3:806:ILE:HD11	2.01	0.43
1:M3:72:GLY:CA	1:J3:77:ALA:CB	2.92	0.43
2:P3:68:PRO:HA	2:P4:57:ALA:HB1	2.01	0.43
1:E0:9:LEU:HD11	1:E0:49:LEU:HD23	2.01	0.43
1:AR:75:LEU:HD23	3:YQ:774:VAL:HB	2.00	0.43
1:EQ:9:LEU:HD11	1:EQ:49:LEU:HD23	2.01	0.43
1:GS:68:CYS:HA	1:GS:71:VAL:HG12	1.99	0.43
1:HR:57:VAL:HG12	1:HR:80:ILE:HG23	2.01	0.43
1:NS:27:MET:HE3	1:NS:50:VAL:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XT:693:THR:HG23	3:XT:694:PRO:HD2	1.99	0.43
1:AG:20:ALA:HB1	1:AG:48:VAL:CG2	2.49	0.43
1:HH:57:VAL:HG12	1:HH:80:ILE:HG23	2.01	0.43
1:HI:57:VAL:HG12	1:HI:80:ILE:HG23	2.01	0.43
1:HJ:57:VAL:HG12	1:HJ:80:ILE:HG23	2.01	0.43
1:NJ:27:MET:HE3	1:NJ:50:VAL:CG2	2.48	0.43
2:PH:56:SER:O	2:PH:59:ARG:HG3	2.19	0.43
1:AN:81:ILE:HG22	1:AN:83:ARG:O	2.18	0.43
1:GL:62:ARG:HG2	3:YF:785:VAL:HG21	2.01	0.43
1:JM:62:ARG:NH1	3:X7:624:SER:HB2	2.28	0.43
1:Cf:29:LYS:HE2	2:Pe:45:ILE:HG22	2.01	0.43
1:Cg:18:VAL:HG22	1:Hf:11:MET:CB	2.49	0.43
1:De:18:VAL:HG11	1:Ec:77:ALA:HB1	2.00	0.43
1:Ee:88:VAL:HG21	1:Dc:25:ASP:CA	2.47	0.43
1:He:57:VAL:HG12	1:He:80:ILE:HG23	2.01	0.43
1:Hf:57:VAL:HG12	1:Hf:80:ILE:HG23	2.01	0.43
1:Hh:57:VAL:HG12	1:Hh:80:ILE:HG23	2.01	0.43
1:Ne:12:ILE:HG23	1:Ne:75:LEU:HD12	2.00	0.43
3:Xi:628:THR:CG2	1:Jp:79:HIS:HD2	2.24	0.43
1:DX:58:ASN:CB	3:Xo:643:TYR:CZ	2.88	0.43
1:EZ:77:ALA:HB1	1:Dd:18:VAL:HG11	2.01	0.43
3:YW:867:ALA:O	3:YW:868:ARG:C	2.60	0.43
1:Cc:18:VAL:HG22	1:Hb:11:MET:CB	2.49	0.43
1:Ed:9:LEU:HD11	1:Ed:49:LEU:HD23	2.01	0.43
1:Hc:57:VAL:HG12	1:Hc:80:ILE:HG23	2.01	0.43
1:Nc:12:ILE:HG23	1:Nc:75:LEU:HD12	2.00	0.43
1:Cv:62:ARG:HD2	2:Pu:21:HIS:CE1	2.53	0.43
1:Fv:27:MET:SD	1:Fv:50:VAL:HG21	2.59	0.43
1:Gt:68:CYS:HA	1:Gt:71:VAL:HG12	1.99	0.43
1:Nu:12:ILE:HG23	1:Nu:75:LEU:HD12	2.00	0.43
1:Ow:85:HIS:HD1	1:Ow:87:GLU:H	1.65	0.43
3:Xu:628:THR:O	1:Jr:79:HIS:HA	2.18	0.43
1:Al:20:ALA:HB1	1:Al:48:VAL:CG2	2.49	0.43
1:Cm:18:VAL:HG22	1:Hl:11:MET:CB	2.49	0.43
1:Fn:34:ARG:CB	1:Dn:87:GLU:OE2	2.66	0.43
1:Nn:12:ILE:HG23	1:Nn:75:LEU:HD12	2.00	0.43
1:Ok:79:HIS:HA	3:Xk:714:THR:O	2.19	0.43
3:Yn:713:ILE:H	3:Yn:713:ILE:HG12	1.50	0.43
1:Aq:81:ILE:HG22	1:Aq:83:ARG:O	2.18	0.43
1:Br:79:HIS:HA	3:Yq:725:THR:O	2.18	0.43
1:Br:91:ILE:HD13	1:Iq:35:LEU:HD21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Hs:57:VAL:HG12	1:Hs:80:ILE:HG23	2.01	0.43
1:Nr:12:ILE:HG23	1:Nr:75:LEU:HD12	2.00	0.43
1:Ns:80:ILE:O	3:Yr:716:PRO:HD3	2.18	0.43
3:Yj:867:ALA:O	3:Yj:868:ARG:C	2.60	0.43
1:D7:23:ALA:HB2	1:D7:68:CYS:HB3	2.01	0.43
1:E3:9:LEU:HD11	1:E3:49:LEU:HD23	2.01	0.43
1:AD:81:ILE:HG22	1:AD:83:ARG:O	2.18	0.43
1:DA:28:THR:HG22	1:E8:85:HIS:CE1	2.54	0.43
1:HB:57:VAL:HG12	1:HB:80:ILE:HG23	2.01	0.43
1:ND:27:MET:HE3	1:ND:50:VAL:CG2	2.48	0.43
1:NE:27:MET:HE3	1:NE:50:VAL:HG22	2.00	0.43
1:A1:81:ILE:HG22	1:A1:83:ARG:O	2.18	0.43
1:B5:11:MET:HB3	1:I4:18:VAL:CG2	2.46	0.43
1:D3:35:LEU:HD23	1:Eb:91:ILE:CG2	2.49	0.43
1:D3:58:ASN:CG	3:Xc:643:TYR:CE1	2.89	0.43
1:E2:68:CYS:SG	1:E2:75:LEU:HD13	2.58	0.43
1:H4:12:ILE:HG23	1:H4:75:LEU:HD12	1.99	0.43
2:P2:56:SER:O	2:P2:59:ARG:HG3	2.19	0.43
3:Y5:867:ALA:O	3:Y5:868:ARG:C	2.60	0.43
1:A6:81:ILE:HG22	1:A6:83:ARG:O	2.18	0.43
1:C6:18:VAL:HG23	1:H0:47:THR:HG23	2.00	0.43
1:D9:47:THR:CG2	1:F9:17:LEU:HD23	2.48	0.43
1:E0:68:CYS:SG	1:E0:75:LEU:HD13	2.58	0.43
1:L6:79:HIS:HA	3:X6:639:SER:O	2.19	0.43
1:M0:23:ALA:HB2	1:M0:68:CYS:SG	2.58	0.43
1:N9:12:ILE:HG23	1:N9:75:LEU:HD12	2.00	0.43
3:X6:700:ASN:HD22	3:X6:700:ASN:HA	1.63	0.43
1:AR:81:ILE:HG22	1:AR:83:ARG:O	2.18	0.43
1:CR:62:ARG:HD2	2:PQ:21:HIS:CE1	2.53	0.43
1:CR:79:HIS:HD2	3:YP:862:THR:OG1	2.02	0.43
1:EP:62:ARG:CB	3:YP:732:HIS:NE2	2.59	0.43
1:ER:45:TYR:CZ	1:D4:73:ASP:OD2	2.69	0.43
1:FQ:27:MET:SD	1:FQ:50:VAL:HG21	2.59	0.43
1:GQ:14:THR:HB	1:GQ:19:PRO:HB2	2.01	0.43
1:JS:79:HIS:HD2	3:Xb:628:THR:OG1	2.01	0.43
2:PQ:68:PRO:HA	2:PR:57:ALA:HB1	2.01	0.43
1:AI:20:ALA:HB1	1:AI:48:VAL:CG2	2.49	0.43
1:BH:79:HIS:HA	3:YG:725:THR:O	2.19	0.43
1:CJ:29:LYS:HE2	2:PI:45:ILE:HG22	2.01	0.43
1:NJ:12:ILE:HG23	1:NJ:75:LEU:HD12	2.00	0.43
1:CM:29:LYS:HE2	2:PL:45:ILE:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CN:18:VAL:HG22	1:HM:11:MET:CB	2.49	0.43
1:EM:9:LEU:HD11	1:EM:49:LEU:HD23	2.01	0.43
1:FN:27:MET:SD	1:FN:50:VAL:HG21	2.59	0.43
1:HM:12:ILE:HG23	1:HM:75:LEU:HD12	1.99	0.43
1:HN:12:ILE:HG23	1:HN:75:LEU:HD12	1.99	0.43
1:NM:27:MET:HE3	1:NM:50:VAL:HG22	2.00	0.43
2:PM:4:MET:O	2:PM:50:VAL:HG22	2.19	0.43
1:Fe:27:MET:SD	1:Fe:50:VAL:HG21	2.59	0.43
1:Fg:27:MET:SD	1:Fg:50:VAL:HG21	2.59	0.43
1:Kh:62:ARG:HA	3:Yg:806:ILE:HD11	2.01	0.43
1:Nh:12:ILE:HG23	1:Nh:75:LEU:HD12	2.00	0.43
1:CX:79:HIS:HD2	3:YV:862:THR:OG1	2.02	0.43
1:GW:14:THR:HB	1:GW:19:PRO:HB2	2.01	0.43
1:KY:62:ARG:HA	3:YX:806:ILE:HD11	2.01	0.43
1:MZ:23:ALA:HB2	1:MZ:68:CYS:SG	2.58	0.43
1:NV:27:MET:HE3	1:NV:50:VAL:CG2	2.48	0.43
1:NW:27:MET:HE3	1:NW:50:VAL:HG22	2.00	0.43
1:NZ:12:ILE:HG23	1:NZ:75:LEU:HD12	2.00	0.43
1:Ba:61:VAL:HG12	3:YU:724:ILE:HD13	2.01	0.43
1:Ka:80:ILE:CD1	3:YU:806:ILE:HG21	2.49	0.43
1:NU:12:ILE:HG23	1:NU:75:LEU:HD12	2.00	0.43
2:Pb:4:MET:O	2:Pb:50:VAL:HG22	2.19	0.43
1:Aw:81:ILE:HG22	1:Aw:83:ARG:O	2.18	0.43
1:Dx:25:ASP:CA	1:Ek:88:VAL:HG21	2.49	0.43
1:Et:9:LEU:HD11	1:Et:49:LEU:HD23	2.01	0.43
1:Et:85:HIS:NE2	1:Dr:28:THR:HG22	2.34	0.43
1:Hx:57:VAL:HG12	1:Hx:80:ILE:HG23	2.01	0.43
1:Nu:27:MET:HE3	1:Nu:50:VAL:HG22	2.00	0.43
1:Nx:12:ILE:HG23	1:Nx:75:LEU:HD12	2.00	0.43
1:Nx:27:MET:HE3	1:Nx:50:VAL:HG22	2.00	0.43
1:Am:20:ALA:HB1	1:Am:48:VAL:CG2	2.49	0.43
1:Am:75:LEU:HD23	3:Yl:774:VAL:HB	2.00	0.43
1:Dm:47:THR:CG2	1:Fm:17:LEU:HD23	2.48	0.43
1:Do:9:LEU:HG	1:Do:11:MET:HE2	1.99	0.43
1:Eo:77:ALA:HB1	1:Ds:18:VAL:HG11	2.01	0.43
1:Hn:57:VAL:HG12	1:Hn:80:ILE:HG23	2.01	0.43
1:Nk:12:ILE:HG23	1:Nk:75:LEU:HD12	2.00	0.43
1:Bp:11:MET:HB3	1:Ij:18:VAL:CG2	2.48	0.43
1:Cs:29:LYS:HE2	2:Pr:45:ILE:HG22	2.01	0.43
1:Eq:9:LEU:HD11	1:Eq:49:LEU:HD23	2.01	0.43
1:Kq:62:ARG:HA	3:Yp:806:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Or:79:HIS:HA	3:Xr:714:THR:O	2.19	0.43
1:DS:11:MET:HE1	1:DS:81:ILE:HG13	2.01	0.43
1:Dw:53:GLU:O	1:Dw:54:THR:C	2.61	0.43
1:FY:73:ASP:OD2	1:DY:76:VAL:HG13	2.19	0.43
1:Dl:21:ILE:HG21	1:EF:92:LEU:HD21	2.01	0.43
1:Mm:23:ALA:HB2	1:Mm:68:CYS:SG	2.58	0.43
1:AA:20:ALA:HB1	1:AA:48:VAL:CG2	2.49	0.42
1:AC:20:ALA:HB1	1:AC:48:VAL:CG2	2.49	0.42
1:CD:29:LYS:HE2	2:PC:45:ILE:CG2	2.49	0.42
1:DB:18:VAL:O	1:DB:19:PRO:C	2.61	0.42
1:EB:91:ILE:CG2	1:Du:35:LEU:HD23	2.49	0.42
1:EC:79:HIS:HA	3:YC:703:THR:O	2.20	0.42
1:FA:27:MET:SD	1:FA:50:VAL:HG21	2.59	0.42
1:FB:27:MET:SD	1:FB:50:VAL:HG21	2.59	0.42
1:ND:12:ILE:HG23	1:ND:75:LEU:HD12	2.00	0.42
3:XC:628:THR:OG1	1:Ju:78:ALA:O	2.34	0.42
1:B2:41:VAL:HG13	1:I1:40:PHE:HD1	1.84	0.42
1:B3:66:ASP:OD1	3:Y2:720:ALA:HB2	2.18	0.42
1:D2:80:ILE:HD12	3:Xg:616:ILE:HG21	1.69	0.42
1:D3:35:LEU:CD2	1:Eb:91:ILE:CG2	2.97	0.42
1:D5:35:LEU:CD2	1:E9:91:ILE:CG2	2.95	0.42
1:E2:83:ARG:HH21	1:N3:32:GLU:CD	2.27	0.42
1:E4:9:LEU:HD11	1:E4:49:LEU:HD23	2.01	0.42
1:F5:27:MET:SD	1:F5:50:VAL:HG21	2.59	0.42
1:J5:72:GLY:CA	1:O5:77:ALA:HB2	2.50	0.42
1:N4:79:HIS:HA	3:Y3:714:THR:O	2.18	0.42
1:E9:9:LEU:HD11	1:E9:49:LEU:HD23	2.01	0.42
1:F0:27:MET:SD	1:F0:50:VAL:HG21	2.59	0.42
1:F7:27:MET:SD	1:F7:50:VAL:HG21	2.59	0.42
1:G0:78:ALA:HB1	3:Y9:785:VAL:HG13	2.00	0.42
1:H8:12:ILE:HG23	1:H8:75:LEU:HD12	1.99	0.42
1:N8:12:ILE:HG23	1:N8:75:LEU:HD12	2.00	0.42
2:P9:68:PRO:HA	2:P0:57:ALA:HB1	2.00	0.42
1:BS:91:ILE:HD12	1:IR:21:ILE:CD1	2.45	0.42
1:DQ:47:THR:CG2	1:FQ:17:LEU:HD23	2.48	0.42
1:DT:97:GLN:CA	1:EG:90:ASN:HB3	2.31	0.42
1:EQ:68:CYS:SG	1:EQ:75:LEU:HD13	2.58	0.42
1:NT:12:ILE:HG23	1:NT:75:LEU:HD12	2.00	0.42
2:PS:37:VAL:HG12	2:PT:1:MET:HE2	2.00	0.42
1:BI:91:ILE:HD11	1:IH:21:ILE:HD13	1.99	0.42
1:CJ:29:LYS:HE2	2:PI:45:ILE:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DG:47:THR:CG2	1:FG:17:LEU:HD23	2.48	0.42
1:BL:11:MET:HB3	1:IF:18:VAL:CG2	2.48	0.42
1:BN:41:VAL:HG13	1:IM:40:PHE:HD1	1.83	0.42
1:BN:91:ILE:HD13	1:IM:35:LEU:HD21	2.01	0.42
1:CN:79:HIS:HD2	3:YL:862:THR:OG1	2.02	0.42
1:EN:9:LEU:HD11	1:EN:49:LEU:HD23	2.01	0.42
1:HF:62:ARG:HG3	3:YN:848:ILE:CD1	2.29	0.42
1:Hi:57:VAL:HG12	1:Hi:80:ILE:HG23	2.01	0.42
1:Lh:83:ARG:NH1	1:DD:31:ALA:O	2.52	0.42
3:Xf:628:THR:O	1:Jc:79:HIS:HA	2.18	0.42
3:Xi:643:TYR:HE2	1:Dp:55:GLY:C	2.27	0.42
1:BV:91:ILE:HD12	1:IZ:21:ILE:CD1	2.49	0.42
1:CV:18:VAL:HG23	1:HZ:47:THR:HG23	2.00	0.42
1:CZ:18:VAL:HG13	1:HY:11:MET:HE3	2.00	0.42
1:EZ:68:CYS:SG	1:EZ:75:LEU:HD13	2.58	0.42
1:FW:66:ASP:HB2	3:XW:720:ALA:HB2	2.00	0.42
1:HV:57:VAL:HG12	1:HV:80:ILE:HG23	2.01	0.42
1:IZ:62:ARG:HD2	3:XZ:730:PHE:HB2	2.00	0.42
1:OV:79:HIS:HA	3:XV:714:THR:O	2.19	0.42
1:Ad:20:ALA:HB1	1:Ad:48:VAL:CG2	2.49	0.42
1:Ad:81:ILE:HG22	1:Ad:83:ARG:O	2.18	0.42
1:CU:18:VAL:HG13	1:Hd:11:MET:HE3	2.00	0.42
1:Ca:18:VAL:HG23	1:HU:47:THR:HG23	2.00	0.42
1:Ea:88:VAL:CG2	1:DS:25:ASP:HA	2.48	0.42
1:Fa:27:MET:SD	1:Fa:50:VAL:HG21	2.59	0.42
1:Hd:57:VAL:HG12	1:Hd:80:ILE:HG23	2.01	0.42
1:La:62:ARG:NE	3:Xa:644:VAL:CG1	2.77	0.42
1:At:20:ALA:HB1	1:At:48:VAL:CG2	2.49	0.42
1:Cu:29:LYS:HE2	2:Pt:45:ILE:HG22	2.01	0.42
1:Et:68:CYS:SG	1:Et:75:LEU:HD13	2.58	0.42
1:Eu:83:ARG:HH21	1:Nv:32:GLU:CD	2.27	0.42
1:Ht:57:VAL:HG12	1:Ht:80:ILE:HG23	2.01	0.42
1:Jw:72:GLY:CA	1:Ow:77:ALA:HB2	2.49	0.42
1:Jw:83:ARG:HD2	1:LM:31:ALA:O	2.19	0.42
1:Kw:62:ARG:HA	3:Yv:806:ILE:HD11	2.01	0.42
2:Pt:39:VAL:HG23	2:Pu:1:MET:HE1	2.01	0.42
1:Fm:27:MET:SD	1:Fm:50:VAL:HG21	2.60	0.42
1:Fn:34:ARG:C	1:Dn:87:GLU:OE2	2.62	0.42
1:Fn:35:LEU:CA	1:Dn:87:GLU:OE1	2.61	0.42
1:Hk:57:VAL:HG12	1:Hk:80:ILE:HG23	2.01	0.42
1:Mo:23:ALA:HB2	1:Mo:68:CYS:SG	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Cr:25:ASP:HA	1:Hq:88:VAL:CG2	2.48	0.42
1:Es:79:HIS:HA	3:Ys:703:THR:O	2.18	0.42
1:Es:83:ARG:NH2	1:Nj:32:GLU:CD	2.77	0.42
1:Fj:27:MET:SD	1:Fj:50:VAL:HG21	2.59	0.42
1:Jj:62:ARG:HG2	3:XX:627:VAL:HG21	2.00	0.42
1:Mq:23:ALA:HB2	1:Mq:68:CYS:SG	2.58	0.42
1:Mr:23:ALA:HB2	1:Mr:68:CYS:SG	2.58	0.42
1:J6:83:ARG:HD2	1:LN:31:ALA:C	2.44	0.42
1:EI:9:LEU:HD11	1:EI:49:LEU:HD23	2.01	0.42
3:Xb:693:THR:HB	3:Xb:696:ARG:HB3	2.01	0.42
1:Db:79:HIS:CE1	1:Db:81:ILE:HG12	2.54	0.42
3:Xa:626:LEU:H	3:Xa:626:LEU:HD12	1.83	0.42
1:OI:79:HIS:HA	3:XI:714:THR:O	2.18	0.42
1:FF:49:LEU:HD13	1:FF:93:PRO:HG3	2.00	0.42
1:FF:65:ALA:HA	1:FF:75:LEU:HD13	2.00	0.42
1:Nm:27:MET:HE3	1:Nm:50:VAL:CG2	2.48	0.42
1:BC:91:ILE:HD13	1:IB:35:LEU:HD21	2.01	0.42
1:DA:47:THR:CG2	1:FA:17:LEU:HD23	2.48	0.42
1:DB:27:MET:HB3	1:DB:60:ALA:HB1	2.00	0.42
1:DB:35:LEU:CD2	1:Eu:91:ILE:HG21	2.47	0.42
1:EA:9:LEU:HD11	1:EA:49:LEU:HD23	2.01	0.42
1:EC:9:LEU:HD11	1:EC:49:LEU:HD23	2.01	0.42
3:XE:616:ILE:HG22	1:Dg:80:ILE:HD12	2.01	0.42
1:A1:20:ALA:HB1	1:A1:48:VAL:CG2	2.49	0.42
1:O1:79:HIS:HA	3:X1:714:THR:O	2.19	0.42
1:C7:29:LYS:HE2	2:P6:45:ILE:HG22	2.01	0.42
1:D0:47:THR:CG2	1:F0:17:LEU:HD23	2.48	0.42
1:F8:27:MET:SD	1:F8:50:VAL:HG21	2.59	0.42
1:G7:18:VAL:N	1:G7:19:PRO:CD	2.83	0.42
1:H7:57:VAL:HG12	1:H7:80:ILE:HG23	2.01	0.42
1:J7:72:GLY:CA	1:O7:77:ALA:HB2	2.50	0.42
1:BR:91:ILE:HD13	1:IQ:35:LEU:HD21	2.01	0.42
1:CS:29:LYS:HE2	2:PR:45:ILE:HG22	2.01	0.42
1:DP:28:THR:HG22	1:EN:85:HIS:CE1	2.54	0.42
1:DP:47:THR:CG2	1:FP:17:LEU:HD23	2.48	0.42
1:DP:58:ASN:HB3	3:XO:643:TYR:HE1	1.84	0.42
1:ER:79:HIS:HA	3:YR:703:THR:O	2.19	0.42
1:ET:91:ILE:CG2	1:DG:35:LEU:HD23	2.49	0.42
1:FS:27:MET:SD	1:FS:50:VAL:HG21	2.59	0.42
1:GS:18:VAL:N	1:GS:19:PRO:CD	2.83	0.42
1:HS:57:VAL:HG12	1:HS:80:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HT:12:ILE:HG23	1:HT:75:LEU:HD12	1.99	0.42
1:JS:72:GLY:CA	1:OS:77:ALA:HB2	2.50	0.42
1:MQ:23:ALA:HB2	1:MQ:68:CYS:SG	2.58	0.42
1:NP:12:ILE:HG23	1:NP:75:LEU:HD12	2.00	0.42
1:AJ:81:ILE:HG22	1:AJ:83:ARG:O	2.18	0.42
1:EG:9:LEU:HD11	1:EG:49:LEU:HD23	2.01	0.42
1:EH:54:THR:HG22	3:YH:707:ILE:HG12	2.00	0.42
1:FH:27:MET:SD	1:FH:50:VAL:HG21	2.59	0.42
1:HH:80:ILE:CD1	3:YK:848:ILE:CG2	2.96	0.42
1:JJ:62:ARG:CZ	3:Xn:624:SER:CA	2.97	0.42
1:NK:27:MET:HE3	1:NK:50:VAL:HG22	2.00	0.42
3:XG:643:TYR:CE1	1:DO:55:GLY:HA2	2.54	0.42
3:XG:647:GLN:H	3:XG:647:GLN:HG3	1.56	0.42
3:YJ:713:ILE:H	3:YJ:713:ILE:HG12	1.50	0.42
1:AL:20:ALA:HB1	1:AL:48:VAL:CG2	2.49	0.42
1:EM:83:ARG:NH2	1:NN:32:GLU:CD	2.77	0.42
1:GM:18:VAL:N	1:GM:19:PRO:CD	2.83	0.42
1:JN:72:GLY:CA	1:ON:77:ALA:HB2	2.50	0.42
1:ON:79:HIS:HA	3:XN:714:THR:O	2.19	0.42
2:PL:57:ALA:CB	2:PF:68:PRO:O	2.66	0.42
1:Ag:20:ALA:HB1	1:Ag:48:VAL:CG2	2.49	0.42
1:Bh:41:VAL:HG13	1:Ig:40:PHE:HD1	1.84	0.42
1:Bi:11:MET:HB3	1:Ih:18:VAL:CG2	2.46	0.42
1:Dg:47:THR:CG2	1:Fg:17:LEU:HD23	2.48	0.42
1:Ef:83:ARG:HH21	1:Ng:32:GLU:CD	2.27	0.42
1:Gh:18:VAL:N	1:Gh:19:PRO:CD	2.83	0.42
1:Je:72:GLY:CA	1:Oe:77:ALA:HB2	2.50	0.42
1:Li:32:GLU:OE1	1:Jp:7:ILE:HG12	2.19	0.42
1:Mg:23:ALA:HB2	1:Mg:68:CYS:SG	2.58	0.42
1:Ng:27:MET:HE3	1:Ng:50:VAL:CG2	2.48	0.42
1:BW:41:VAL:HG13	1:IV:40:PHE:HD1	1.84	0.42
1:BW:79:HIS:HA	3:YV:725:THR:O	2.19	0.42
1:BY:91:ILE:HD12	1:IX:21:ILE:CD1	2.45	0.42
1:DX:47:THR:CG2	1:FX:17:LEU:HD23	2.48	0.42
1:EW:94:LYS:HA	1:EW:94:LYS:HD3	1.91	0.42
1:EY:9:LEU:HD11	1:EY:49:LEU:HD23	2.01	0.42
1:FW:27:MET:SD	1:FW:50:VAL:HG21	2.59	0.42
1:FW:59:ALA:HB1	3:XW:716:PRO:HB2	2.00	0.42
1:MY:23:ALA:HB2	1:MY:68:CYS:SG	2.58	0.42
1:Ac:20:ALA:HB1	1:Ac:48:VAL:CG2	2.49	0.42
1:Ed:68:CYS:SG	1:Ed:75:LEU:HD13	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HU:57:VAL:HG12	1:HU:80:ILE:HG23	2.01	0.42
1:Hc:80:ILE:CD1	3:Ya:848:ILE:CG2	2.95	0.42
1:KU:58:ASN:OD1	3:Yd:802:VAL:CG1	2.68	0.42
1:Lc:62:ARG:HB3	3:Xc:633:GLY:HA3	1.97	0.42
1:Ld:80:ILE:HD12	3:Xd:638:ILE:HG21	2.01	0.42
1:At:81:ILE:HG22	1:At:83:ARG:O	2.18	0.42
1:Cw:29:LYS:HE2	2:Pv:45:ILE:HG22	2.01	0.42
1:Ew:68:CYS:SG	1:Ew:75:LEU:HD13	2.58	0.42
1:Lw:83:ARG:CZ	1:D7:32:GLU:HA	2.48	0.42
3:Yu:708:ALA:HA	3:Yu:709:PRO:HD3	1.88	0.42
1:Bn:66:ASP:OD2	3:Ym:719:LEU:HB2	2.19	0.42
1:Fk:27:MET:SD	1:Fk:50:VAL:HG21	2.59	0.42
1:Gl:7:ILE:HB	1:Gl:51:ARG:HH21	1.83	0.42
1:Ho:57:VAL:HG12	1:Ho:80:ILE:HG23	2.01	0.42
1:Ko:80:ILE:CD1	3:Yn:806:ILE:HG21	2.50	0.42
1:Bq:91:ILE:HD12	1:Ip:21:ILE:CD1	2.46	0.42
1:Cs:29:LYS:HE2	2:Pr:45:ILE:CG2	2.49	0.42
1:Gp:18:VAL:N	1:Gp:19:PRO:CD	2.83	0.42
1:Lp:79:HIS:HA	3:Xp:639:SER:O	2.19	0.42
1:DS:33:VAL:HG13	1:DS:56:ALA:CB	2.48	0.42
1:DS:94:LYS:HE2	1:DS:94:LYS:HB2	1.85	0.42
3:Xw:615:ILE:HB	3:Xw:616:ILE:H	1.61	0.42
3:XX:616:ILE:HD12	1:Dj:61:VAL:CG1	2.50	0.42
1:Dh:33:VAL:HG13	1:Dh:56:ALA:CB	2.49	0.42
1:Dh:34:ARG:HG2	1:Dh:51:ARG:O	2.19	0.42
1:DH:8:ALA:O	1:DH:51:ARG:HA	2.19	0.42
1:FF:18:VAL:HG22	1:DF:11:MET:HB2	2.00	0.42
1:HB:80:ILE:CD1	3:YE:848:ILE:CG2	2.96	0.42
1:A3:20:ALA:HB1	1:A3:48:VAL:CG2	2.49	0.42
1:B1:11:MET:HB3	1:I5:18:VAL:CG2	2.48	0.42
1:B3:91:ILE:HD13	1:I2:35:LEU:HD21	2.01	0.42
1:C3:18:VAL:HG22	1:H2:11:MET:CB	2.49	0.42
1:C3:79:HIS:HD2	3:Y1:862:THR:OG1	2.02	0.42
1:E5:9:LEU:HD11	1:E5:49:LEU:HD23	2.01	0.42
1:G1:18:VAL:N	1:G1:19:PRO:CD	2.83	0.42
1:G1:62:ARG:HG2	3:Y5:785:VAL:HG21	2.01	0.42
1:G4:18:VAL:N	1:G4:19:PRO:CD	2.83	0.42
1:G5:18:VAL:N	1:G5:19:PRO:CD	2.83	0.42
2:P1:39:VAL:HG23	2:P2:1:MET:HE1	2.01	0.42
1:B7:91:ILE:HD12	1:I6:21:ILE:CD1	2.45	0.42
1:C7:73:ASP:OD2	1:H6:45:TYR:OH	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C8:79:HIS:HD2	3:Y6:862:THR:OG1	2.02	0.42
1:K0:80:ILE:CD1	3:Y9:806:ILE:HG21	2.50	0.42
1:N0:12:ILE:HG23	1:N0:75:LEU:HD12	2.00	0.42
2:P6:39:VAL:HG23	2:P7:1:MET:HE1	2.01	0.42
2:P7:4:MET:O	2:P7:50:VAL:HG22	2.19	0.42
1:AR:20:ALA:HB1	1:AR:48:VAL:CG2	2.49	0.42
1:JT:7:ILE:HD11	1:LH:32:GLU:HB2	2.01	0.42
1:KT:80:ILE:CD1	3:YS:806:ILE:HG21	2.50	0.42
1:NQ:12:ILE:HG23	1:NQ:75:LEU:HD12	2.00	0.42
3:XQ:643:TYR:HE1	1:DN:58:ASN:HB3	1.84	0.42
1:BI:91:ILE:HD13	1:IH:35:LEU:HD21	2.01	0.42
1:CI:18:VAL:HG23	1:HH:47:THR:HG23	2.00	0.42
1:FG:27:MET:SD	1:FG:50:VAL:HG21	2.59	0.42
1:FJ:27:MET:SD	1:FJ:50:VAL:HG21	2.59	0.42
2:PG:59:ARG:CZ	2:PH:57:ALA:HA	2.50	0.42
1:AO:20:ALA:HB1	1:AO:48:VAL:CG2	2.49	0.42
1:BL:61:VAL:HG12	3:YF:724:ILE:HD13	2.01	0.42
1:FM:27:MET:SD	1:FM:50:VAL:HG21	2.59	0.42
1:GN:18:VAL:N	1:GN:19:PRO:CD	2.83	0.42
1:JL:72:GLY:CA	1:OL:77:ALA:HB2	2.50	0.42
2:PF:65:LYS:HE2	2:PF:65:LYS:HB3	1.86	0.42
3:XL:726:GLY:CA	1:FL:79:HIS:ND1	2.80	0.42
1:Bf:61:VAL:HG12	3:Ye:724:ILE:HD13	2.01	0.42
1:De:58:ASN:HB3	3:Xd:643:TYR:HE1	1.84	0.42
1:Ef:9:LEU:HD11	1:Ef:49:LEU:HD23	2.01	0.42
1:Gg:18:VAL:N	1:Gg:19:PRO:CD	2.83	0.42
1:Ki:80:ILE:CD1	3:Yh:806:ILE:HG21	2.50	0.42
1:Mi:23:ALA:HB2	1:Mi:68:CYS:SG	2.58	0.42
3:Xi:626:LEU:CD2	1:Jp:65:ALA:C	2.93	0.42
1:CX:18:VAL:HG23	1:HW:47:THR:HG23	2.01	0.42
1:DW:55:GLY:C	3:Xp:643:TYR:CZ	2.97	0.42
1:DX:28:THR:HG23	1:En:87:GLU:OE1	2.19	0.42
1:EW:83:ARG:NH2	1:NX:32:GLU:CD	2.77	0.42
1:JX:72:GLY:CA	1:OX:77:ALA:HB2	2.50	0.42
1:KZ:58:ASN:OD1	3:YY:802:VAL:CG1	2.67	0.42
1:NV:12:ILE:HG23	1:NV:75:LEU:HD12	2.00	0.42
3:XW:727:THR:HA	3:XW:728:PRO:HD3	1.85	0.42
1:Ba:90:ASN:HD22	1:Ba:90:ASN:HA	1.59	0.42
1:Dd:47:THR:CG2	1:Fd:17:LEU:HD23	2.48	0.42
1:EU:9:LEU:HD11	1:EU:49:LEU:HD23	2.01	0.42
1:Eb:68:CYS:SG	1:Eb:75:LEU:HD13	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ga:18:VAL:N	1:Ga:19:PRO:CD	2.83	0.42
1:Gc:18:VAL:N	1:Gc:19:PRO:CD	2.83	0.42
1:Jb:72:GLY:CA	1:Ob:77:ALA:HB2	2.50	0.42
1:KU:80:ILE:CD1	3:Yd:806:ILE:HG21	2.50	0.42
1:Oc:79:HIS:HA	3:Xc:714:THR:O	2.19	0.42
2:Pd:68:PRO:HA	2:PU:57:ALA:HB1	2.00	0.42
1:Ax:20:ALA:HB1	1:Ax:48:VAL:CG2	2.49	0.42
1:Cv:18:VAL:HG23	1:Hu:47:THR:HG23	2.00	0.42
1:Eu:9:LEU:HD11	1:Eu:49:LEU:HD23	2.01	0.42
1:Gt:62:ARG:HG2	3:Yx:785:VAL:HG21	2.01	0.42
1:Hu:57:VAL:HG12	1:Hu:80:ILE:HG23	2.01	0.42
2:Pw:14:ASN:HD21	2:Px:76:ILE:N	2.17	0.42
1:Bn:41:VAL:HG13	1:Im:40:PHE:HD1	1.84	0.42
1:Eo:9:LEU:HD11	1:Eo:49:LEU:HD23	2.01	0.42
1:Gm:18:VAL:N	1:Gm:19:PRO:CD	2.83	0.42
1:Go:18:VAL:N	1:Go:19:PRO:CD	2.82	0.42
1:Jk:72:GLY:CA	1:Ok:77:ALA:HB2	2.50	0.42
1:Lk:83:ARG:NH1	1:Ds:28:THR:O	2.52	0.42
3:Xk:634:GLU:HG3	3:Xk:635:GLN:HG3	2.00	0.42
3:Xl:716:PRO:HB2	1:Fl:59:ALA:HB1	2.00	0.42
1:Bp:61:VAL:HG12	3:Yj:724:ILE:HD13	2.01	0.42
1:Ep:90:ASN:CB	1:Dh:97:GLN:C	2.93	0.42
1:Eq:83:ARG:NH2	1:Nr:32:GLU:CD	2.77	0.42
1:Er:68:CYS:SG	1:Er:75:LEU:HD13	2.58	0.42
1:Jp:72:GLY:CA	1:Op:77:ALA:HB2	2.50	0.42
1:Kj:80:ILE:CD1	3:Ys:806:ILE:HG21	2.50	0.42
1:Ls:80:ILE:HD12	3:Xs:638:ILE:HG21	2.01	0.42
1:DD:94:LYS:HE2	1:DD:94:LYS:HB2	1.92	0.42
3:X7:617:SER:C	1:DM:79:HIS:CD2	2.97	0.42
1:DM:53:GLU:C	1:DM:55:GLY:N	2.75	0.42
3:Xn:691:ILE:H	3:Xn:691:ILE:HG13	1.48	0.42
1:FY:27:MET:SD	1:FY:50:VAL:HG21	2.59	0.42
3:XX:629:GLY:C	3:XX:631:GLU:H	2.21	0.42
1:DY:89:GLU:O	1:DY:90:ASN:C	2.62	0.42
1:Dq:61:VAL:HG21	1:Dq:80:ILE:HG13	2.02	0.42
1:JE:72:GLY:CA	1:OE:77:ALA:HB2	2.49	0.42
2:PA:39:VAL:HG21	2:PA:67:TYR:HE1	1.85	0.42
2:PB:68:PRO:HA	2:PC:57:ALA:HB1	2.01	0.42
3:XB:621:VAL:HG11	3:XB:643:TYR:OH	2.19	0.42
3:YE:867:ALA:O	3:YE:868:ARG:C	2.60	0.42
1:F4:27:MET:SD	1:F4:50:VAL:HG21	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G3:79:HIS:ND1	3:Y2:786:SER:HB2	2.35	0.42
1:K5:58:ASN:OD1	3:Y4:802:VAL:CG1	2.67	0.42
1:N3:27:MET:HE3	1:N3:50:VAL:HG22	2.00	0.42
2:P1:59:ARG:CZ	2:P2:57:ALA:HA	2.50	0.42
2:P3:65:LYS:HE2	2:P3:65:LYS:HB3	1.89	0.42
1:A6:20:ALA:HB1	1:A6:48:VAL:CG2	2.49	0.42
1:A9:20:ALA:HB1	1:A9:48:VAL:CG2	2.49	0.42
1:D8:47:THR:CG2	1:F8:17:LEU:HD23	2.48	0.42
1:F9:27:MET:SD	1:F9:50:VAL:HG21	2.59	0.42
1:G6:62:ARG:HG2	3:Y0:785:VAL:HG21	2.01	0.42
1:G8:18:VAL:N	1:G8:19:PRO:CD	2.83	0.42
1:K9:62:ARG:HA	3:Y8:806:ILE:HD11	2.01	0.42
1:L0:62:ARG:HH22	3:X0:649:THR:HG23	1.83	0.42
1:L9:80:ILE:HD12	3:X9:638:ILE:HG21	2.01	0.42
1:DT:72:GLY:CA	1:EG:77:ALA:HB2	2.45	0.42
1:EP:9:LEU:HD11	1:EP:49:LEU:HD23	2.01	0.42
1:FP:27:MET:SD	1:FP:50:VAL:HG21	2.59	0.42
1:FT:27:MET:SD	1:FT:50:VAL:HG21	2.59	0.42
1:GP:62:ARG:HG2	3:YT:785:VAL:HG21	2.01	0.42
1:GT:18:VAL:N	1:GT:19:PRO:CD	2.83	0.42
1:MS:29:LYS:NZ	1:Lb:29:LYS:O	2.48	0.42
3:XR:647:GLN:H	3:XR:647:GLN:HG3	1.52	0.42
1:EJ:11:MET:HB3	1:Dm:18:VAL:HG22	1.99	0.42
1:HG:57:VAL:HG12	1:HG:80:ILE:HG23	2.01	0.42
1:JG:72:GLY:CA	1:OG:77:ALA:HB2	2.50	0.42
2:PI:39:VAL:HG23	2:PJ:1:MET:HE1	2.01	0.42
3:XK:645:GLY:HA2	1:Dm:62:ARG:NE	2.34	0.42
1:CO:29:LYS:HE2	2:PN:45:ILE:CG2	2.48	0.42
1:CO:29:LYS:HE2	2:PN:45:ILE:HG22	2.01	0.42
2:PL:53:VAL:HB	2:PL:74:ILE:HD13	2.02	0.42
1:Bf:11:MET:HB3	1:Ie:18:VAL:CG2	2.46	0.42
1:Ch:29:LYS:HE2	2:Pg:45:ILE:CG2	2.49	0.42
1:Ef:83:ARG:NH2	1:Ng:32:GLU:CD	2.77	0.42
1:Gf:7:ILE:HB	1:Gf:51:ARG:HH21	1.83	0.42
1:Hg:80:ILE:CD1	3:Ye:848:ILE:CG2	2.95	0.42
1:BX:41:VAL:HG13	1:IW:40:PHE:HD1	1.83	0.42
1:CW:29:LYS:HE2	2:PV:45:ILE:CG2	2.49	0.42
1:CY:29:LYS:HE2	2:PX:45:ILE:HG22	2.01	0.42
1:DW:47:THR:CG2	1:FW:17:LEU:HD23	2.48	0.42
1:GX:18:VAL:N	1:GX:19:PRO:CD	2.83	0.42
1:HW:57:VAL:HG12	1:HW:80:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OY:77:ALA:HB2	1:JY:72:GLY:CA	2.50	0.42
2:PV:39:VAL:HG23	2:PW:1:MET:HE1	2.01	0.42
2:PX:39:VAL:HG21	2:PX:67:TYR:HE1	1.85	0.42
1:Cb:29:LYS:HE2	2:Pa:45:ILE:HG22	2.01	0.42
1:Cc:18:VAL:HG23	1:Hb:47:THR:HG23	2.00	0.42
1:Cd:29:LYS:HE2	2:Pc:45:ILE:CG2	2.49	0.42
1:EU:92:LEU:HD23	1:DH:21:ILE:CD1	2.49	0.42
1:FU:27:MET:SD	1:FU:50:VAL:HG21	2.59	0.42
2:Pa:39:VAL:HG23	2:Pb:1:MET:HE1	2.01	0.42
1:Ct:25:ASP:HA	1:Hx:88:VAL:CG2	2.48	0.42
1:Cv:18:VAL:HG22	1:Hu:11:MET:CB	2.49	0.42
1:Et:90:ASN:CB	1:Dr:97:GLN:HA	2.35	0.42
1:Ev:84:VAL:HB	1:D7:25:ASP:OD2	2.20	0.42
1:Fu:27:MET:SD	1:Fu:50:VAL:HG21	2.59	0.42
1:Gx:18:VAL:N	1:Gx:19:PRO:CD	2.83	0.42
1:Bl:11:MET:HB3	1:Ik:18:VAL:CG2	2.45	0.42
1:Bo:11:MET:HB3	1:In:18:VAL:CG2	2.46	0.42
1:Cm:18:VAL:HG23	1:Hl:47:THR:HG23	2.00	0.42
1:Gn:18:VAL:N	1:Gn:19:PRO:CD	2.83	0.42
1:Hm:57:VAL:HG12	1:Hm:80:ILE:HG23	2.01	0.42
1:Ep:68:CYS:SG	1:Ep:75:LEU:HD13	2.58	0.42
1:Gr:79:HIS:ND1	3:Yq:786:SER:HB2	2.35	0.42
1:Jq:72:GLY:CA	1:Oq:77:ALA:HB2	2.50	0.42
3:Xj:696:ARG:HG2	3:Xj:700:ASN:HA	2.00	0.42
1:Fq:27:MET:SD	1:Fq:50:VAL:HG21	2.59	0.42
3:XM:693:THR:HB	3:XM:696:ARG:HB3	2.01	0.42
1:EF:14:THR:HB	1:EF:19:PRO:HB2	2.01	0.42
1:BB:41:VAL:HG13	1:IA:40:PHE:HD1	1.84	0.42
1:CC:18:VAL:HG23	1:HB:47:THR:HG23	2.00	0.42
1:DB:78:ALA:HB1	3:Xv:616:ILE:HD13	2.00	0.42
1:EC:91:ILE:HG21	1:Dq:35:LEU:HD23	2.01	0.42
1:ED:83:ARG:NH2	1:NE:32:GLU:CD	2.77	0.42
1:FD:27:MET:SD	1:FD:50:VAL:HG21	2.59	0.42
1:HA:57:VAL:HG12	1:HA:80:ILE:HG23	2.01	0.42
2:PA:57:ALA:HB1	2:PE:68:PRO:HA	2.00	0.42
2:PC:55:SER:HA	2:PC:70:ASP:HA	2.01	0.42
1:M3:31:ALA:O	1:Mc:83:ARG:HD2	2.20	0.42
1:A7:20:ALA:HB1	1:A7:48:VAL:CG2	2.49	0.42
1:B0:11:MET:HB3	1:I9:18:VAL:CG2	2.46	0.42
1:G8:79:HIS:ND1	3:Y7:786:SER:HB2	2.35	0.42
1:K0:58:ASN:OD1	3:Y9:802:VAL:CG1	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K6:80:ILE:CD1	3:Y0:806:ILE:HG21	2.49	0.42
2:P8:39:VAL:HG23	2:P9:1:MET:HE1	2.01	0.42
1:AP:20:ALA:HB1	1:AP:48:VAL:CG2	2.49	0.42
1:DT:47:THR:CG2	1:FT:17:LEU:HD23	2.48	0.42
1:ET:91:ILE:CG2	1:DG:35:LEU:CD2	2.97	0.42
1:HQ:80:ILE:CD1	3:YT:848:ILE:CG2	2.96	0.42
1:FI:27:MET:SD	1:FI:50:VAL:HG21	2.59	0.42
1:GK:18:VAL:N	1:GK:19:PRO:CD	2.83	0.42
1:JH:72:GLY:CA	1:OH:77:ALA:HB2	2.50	0.42
1:JK:72:GLY:CA	1:OK:77:ALA:HB2	2.50	0.42
1:KK:58:ASN:OD1	3:YJ:802:VAL:CG1	2.67	0.42
1:BO:41:VAL:HG13	1:IN:40:PHE:HD1	1.84	0.42
1:FM:17:LEU:HD23	1:DM:47:THR:CG2	2.48	0.42
1:GO:18:VAL:N	1:GO:19:PRO:CD	2.83	0.42
1:NF:43:GLY:HA2	3:XF:696:ARG:HH22	1.85	0.42
1:Be:62:ARG:HB3	3:Yi:720:ALA:HB3	2.01	0.42
1:Bg:91:ILE:HD11	1:If:21:ILE:HD13	1.99	0.42
1:Cg:18:VAL:HG23	1:Hf:47:THR:HG23	2.00	0.42
1:De:28:THR:HG22	1:Ec:85:HIS:CE1	2.54	0.42
1:Ei:9:LEU:HD11	1:Ei:49:LEU:HD23	2.01	0.42
1:Fi:27:MET:SD	1:Fi:50:VAL:HG21	2.59	0.42
1:Hg:57:VAL:HG12	1:Hg:80:ILE:HG23	2.01	0.42
2:Pe:57:ALA:HB1	2:Pi:68:PRO:HA	2.00	0.42
1:DW:72:GLY:CA	1:Ej:77:ALA:HB2	2.49	0.42
1:EZ:9:LEU:HD11	1:EZ:49:LEU:HD23	2.01	0.42
1:GW:28:THR:O	1:KW:83:ARG:NH2	2.51	0.42
1:Eb:83:ARG:HH21	1:Nc:32:GLU:CD	2.28	0.42
1:Ed:79:HIS:HA	3:Yd:703:THR:O	2.18	0.42
1:FU:17:LEU:HD23	1:DU:47:THR:CG2	2.48	0.42
1:Fb:27:MET:SD	1:Fb:50:VAL:HG21	2.59	0.42
1:Ja:72:GLY:CA	1:Oa:77:ALA:HB2	2.50	0.42
1:Av:20:ALA:HB1	1:Av:48:VAL:CG2	2.49	0.42
1:Du:47:THR:CG2	1:Fu:17:LEU:HD23	2.48	0.42
1:Fw:27:MET:SD	1:Fw:50:VAL:HG21	2.59	0.42
1:Gw:18:VAL:N	1:Gw:19:PRO:CD	2.83	0.42
1:Lu:61:VAL:HG12	3:Xu:638:ILE:HD12	2.02	0.42
3:Xu:621:VAL:HG11	3:Xu:643:TYR:OH	2.19	0.42
1:Aj:20:ALA:HB1	1:Aj:48:VAL:CG2	2.49	0.42
1:Cq:29:LYS:HE2	2:Pp:45:ILE:HG22	2.01	0.42
1:Dp:47:THR:CG2	1:Fp:17:LEU:HD23	2.48	0.42
1:Er:9:LEU:HD11	1:Er:49:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fj:17:LEU:HD23	1:Dj:47:THR:CG2	2.48	0.42
1:Hj:57:VAL:HG12	1:Hj:80:ILE:HG23	2.01	0.42
1:Hp:57:VAL:HG12	1:Hp:80:ILE:HG23	2.01	0.42
1:Hq:57:VAL:HG12	1:Hq:80:ILE:HG23	2.01	0.42
1:Hr:57:VAL:HG12	1:Hr:80:ILE:HG23	2.01	0.42
1:Js:72:GLY:CA	1:Os:77:ALA:HB2	2.49	0.42
1:Ns:12:ILE:HG23	1:Ns:75:LEU:HD12	2.00	0.42
2:Pp:53:VAL:HB	2:Pp:74:ILE:HD13	2.02	0.42
1:FL:83:ARG:O	1:EL:29:LYS:NZ	2.51	0.42
1:Db:94:LYS:H	1:Db:94:LYS:HD3	1.83	0.42
1:El:9:LEU:HD11	1:El:49:LEU:HD23	2.01	0.42
1:BD:41:VAL:HG13	1:IC:40:PHE:HD1	1.84	0.42
1:ED:91:ILE:CG2	1:Dg:35:LEU:CD2	2.90	0.42
1:FC:27:MET:SD	1:FC:50:VAL:HG21	2.59	0.42
1:FE:27:MET:SD	1:FE:50:VAL:HG21	2.59	0.42
1:GE:18:VAL:N	1:GE:19:PRO:CD	2.83	0.42
1:JA:72:GLY:CA	1:OA:77:ALA:HB2	2.50	0.42
1:JB:72:GLY:CA	1:OB:77:ALA:HB2	2.50	0.42
1:KE:58:ASN:OD1	3:YD:802:VAL:CG1	2.68	0.42
2:PA:39:VAL:HG23	2:PB:1:MET:HE1	2.02	0.42
2:PD:14:ASN:HD21	2:PE:76:ILE:N	2.17	0.42
3:XE:628:THR:O	1:Jg:80:ILE:N	2.49	0.42
1:F2:27:MET:SD	1:F2:50:VAL:HG21	2.59	0.42
1:F3:27:MET:SD	1:F3:50:VAL:HG21	2.59	0.42
1:H5:57:VAL:HG12	1:H5:80:ILE:HG23	2.01	0.42
1:L5:66:ASP:HA	3:X5:636:GLN:NE2	2.35	0.42
1:C8:18:VAL:HG23	1:H7:47:THR:HG23	2.00	0.42
1:E9:83:ARG:NH2	1:N0:32:GLU:CD	2.77	0.42
1:L7:30:ALA:O	1:JM:82:ALA:HB3	2.19	0.42
3:X9:692:GLN:HE21	3:X9:692:GLN:HB2	1.60	0.42
1:AS:20:ALA:HB1	1:AS:48:VAL:CG2	2.49	0.42
1:BQ:41:VAL:HG13	1:IP:40:PHE:HD1	1.84	0.42
1:BS:61:VAL:HG12	3:YR:724:ILE:HD13	2.01	0.42
1:DT:21:ILE:HG21	1:EG:92:LEU:HD21	2.00	0.42
1:JR:72:GLY:CA	1:OR:77:ALA:HB2	2.49	0.42
1:KP:80:ILE:CD1	3:YT:806:ILE:HG21	2.49	0.42
1:KQ:62:ARG:HA	3:YP:806:ILE:HD11	2.01	0.42
2:PP:39:VAL:HG23	2:PQ:1:MET:HE1	2.01	0.42
2:PP:39:VAL:HG21	2:PP:67:TYR:HE1	1.85	0.42
1:EJ:83:ARG:NH2	1:NK:32:GLU:CD	2.77	0.42
1:EK:77:ALA:HB1	1:DO:18:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FJ:43:GLY:C	1:DJ:43:GLY:HA3	2.44	0.42
2:PG:39:VAL:HG23	2:PH:1:MET:HE1	2.01	0.42
3:YK:867:ALA:O	3:YK:868:ARG:C	2.60	0.42
1:CL:25:ASP:HA	1:HF:88:VAL:CG2	2.48	0.42
1:JM:72:GLY:CA	1:OM:77:ALA:HB2	2.49	0.42
1:KF:80:ILE:CD1	3:YO:806:ILE:HG21	2.50	0.42
1:KL:80:ILE:CD1	3:YF:806:ILE:HG21	2.49	0.42
1:LL:79:HIS:HA	3:XL:639:SER:O	2.19	0.42
1:Bh:61:VAL:HG12	3:Yg:724:ILE:HD13	2.01	0.42
1:Eg:9:LEU:HD11	1:Eg:49:LEU:HD23	2.01	0.42
1:Eg:79:HIS:HA	3:Yg:703:THR:O	2.19	0.42
1:BZ:47:THR:HG21	1:IY:18:VAL:CG2	2.45	0.42
1:EX:68:CYS:SG	1:EX:75:LEU:HD13	2.58	0.42
1:FX:27:MET:SD	1:FX:50:VAL:HG21	2.59	0.42
1:HX:57:VAL:HG12	1:HX:80:ILE:HG23	2.01	0.42
1:KV:80:ILE:CD1	3:YZ:806:ILE:HG21	2.49	0.42
3:XV:643:TYR:CE1	1:Dd:55:GLY:HA2	2.53	0.42
1:Bc:91:ILE:HD12	1:Ib:21:ILE:CD1	2.48	0.42
1:Eb:83:ARG:NH2	1:Nc:32:GLU:CD	2.77	0.42
1:Fc:62:ARG:HD3	3:Xc:717:GLY:O	2.19	0.42
1:Gb:18:VAL:N	1:Gb:19:PRO:CD	2.83	0.42
1:Gc:79:HIS:ND1	3:Yb:786:SER:HB2	2.35	0.42
1:HU:80:ILE:HD12	3:Yc:848:ILE:HG21	1.99	0.42
2:Pa:57:ALA:CB	2:PU:68:PRO:O	2.66	0.42
3:Xd:691:ILE:H	3:Xd:691:ILE:HG13	1.56	0.42
1:Bt:91:ILE:HD12	1:Ix:21:ILE:CD1	2.49	0.42
1:Dt:28:THR:O	1:Ls:83:ARG:NH1	2.50	0.42
1:Dt:47:THR:CG2	1:Ft:17:LEU:HD23	2.48	0.42
1:Dv:47:THR:CG2	1:Fv:17:LEU:HD23	2.48	0.42
1:Ev:79:HIS:HA	3:Yv:703:THR:O	2.19	0.42
1:Ft:27:MET:SD	1:Ft:50:VAL:HG21	2.59	0.42
1:Gv:18:VAL:N	1:Gv:19:PRO:CD	2.83	0.42
1:Cl:29:LYS:HE2	2:Pk:45:ILE:CG2	2.49	0.42
1:Cl:73:ASP:OD2	1:Hk:45:TYR:OH	2.24	0.42
1:Cn:29:LYS:HE2	2:Pm:45:ILE:CG2	2.49	0.42
1:Fo:27:MET:SD	1:Fo:50:VAL:HG21	2.59	0.42
1:Ko:58:ASN:OD1	3:Yn:802:VAL:CG1	2.67	0.42
1:Oo:12:ILE:HG23	1:Oo:75:LEU:CD1	2.50	0.42
2:Po:39:VAL:HG21	2:Po:67:TYR:HE1	1.85	0.42
1:Fp:27:MET:SD	1:Fp:50:VAL:HG21	2.59	0.42
1:Fr:27:MET:SD	1:Fr:50:VAL:HG21	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XD:615:ILE:HB	3:XD:616:ILE:H	1.55	0.42
1:J3:62:ARG:CZ	3:Xc:624:SER:HB2	2.49	0.42
1:Em:9:LEU:HD11	1:Em:49:LEU:HD23	2.01	0.42
3:X3:623:ALA:H	3:X3:648:GLN:HE22	1.67	0.42
1:Om:77:ALA:HB2	1:Jm:72:GLY:CA	2.50	0.42
1:AB:20:ALA:HB1	1:AB:48:VAL:CG2	2.49	0.42
1:DE:21:ILE:HG21	1:E1:92:LEU:HD21	2.00	0.42
1:B2:79:HIS:HA	3:Y1:725:THR:O	2.19	0.42
1:C1:73:ASP:OD2	1:H5:45:TYR:OH	2.20	0.42
1:E2:83:ARG:NH2	1:N3:32:GLU:CD	2.77	0.42
1:E5:77:ALA:HB1	1:D9:18:VAL:HG11	2.01	0.42
1:F2:59:ALA:HB1	3:X2:716:PRO:HB2	2.00	0.42
1:F4:46:VAL:CG2	1:D4:41:VAL:HG13	2.50	0.42
1:H1:57:VAL:HG12	1:H1:80:ILE:HG23	2.01	0.42
1:J4:72:GLY:CA	1:O4:77:ALA:HB2	2.50	0.42
1:K1:80:ILE:CD1	3:Y5:806:ILE:HG21	2.49	0.42
1:O3:79:HIS:HA	3:X3:714:THR:O	2.18	0.42
1:C9:29:LYS:HE2	2:P8:45:ILE:CG2	2.49	0.42
1:C9:73:ASP:OD2	1:H8:45:TYR:OH	2.24	0.42
1:F6:12:ILE:HG23	1:F6:75:LEU:CD1	2.50	0.42
1:G0:77:ALA:HB2	1:H0:72:GLY:CA	2.50	0.42
1:J9:72:GLY:CA	1:O9:77:ALA:HB2	2.49	0.42
1:N0:43:GLY:HA2	3:X0:696:ARG:HH22	1.85	0.42
1:EP:85:HIS:NE2	1:DN:28:THR:HG22	2.34	0.42
1:EQ:83:ARG:NH2	1:NR:32:GLU:CD	2.77	0.42
1:EQ:83:ARG:HH21	1:NR:32:GLU:CD	2.27	0.42
1:FR:12:ILE:HG23	1:FR:75:LEU:CD1	2.50	0.42
1:BH:41:VAL:HG13	1:IG:40:PHE:HD1	1.84	0.42
1:EJ:90:ASN:HB3	1:Dm:97:GLN:CA	2.30	0.42
1:FJ:18:VAL:HG23	1:DJ:13:GLU:CD	2.45	0.42
1:FK:27:MET:SD	1:FK:50:VAL:HG21	2.59	0.42
1:KJ:62:ARG:HA	3:YI:806:ILE:HD11	2.01	0.42
1:AN:75:LEU:HD23	3:YM:774:VAL:HB	2.00	0.42
1:BM:41:VAL:HG13	1:IL:40:PHE:HD1	1.84	0.42
1:CO:80:ILE:HD12	3:YM:861:ILE:HG22	2.02	0.42
1:FM:12:ILE:HG23	1:FM:75:LEU:CD1	2.50	0.42
1:HN:57:VAL:HG12	1:HN:80:ILE:HG23	2.01	0.42
1:KO:58:ASN:OD1	3:YN:802:VAL:HG13	2.20	0.42
1:Cf:29:LYS:HE2	2:Pe:45:ILE:CG2	2.49	0.42
1:Cf:73:ASP:OD2	1:He:45:TYR:OH	2.24	0.42
1:Jf:72:GLY:CA	1:Of:77:ALA:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jg:72:GLY:CA	1:Og:77:ALA:HB2	2.50	0.42
2:Pi:39:VAL:HG21	2:Pi:67:TYR:HE1	1.85	0.42
3:Xf:621:VAL:HG11	3:Xf:643:TYR:OH	2.19	0.42
1:AW:20:ALA:HB1	1:AW:48:VAL:CG2	2.49	0.42
1:AY:22:GLU:OE2	3:YW:865:GLY:N	2.25	0.42
1:FZ:27:MET:SD	1:FZ:50:VAL:HG21	2.59	0.42
1:HY:57:VAL:HG12	1:HY:80:ILE:HG23	2.01	0.42
1:HZ:57:VAL:HG12	1:HZ:80:ILE:HG23	2.01	0.42
1:JV:72:GLY:CA	1:OV:77:ALA:HB2	2.50	0.42
1:JX:62:ARG:NH1	3:Xo:622:ASP:O	2.46	0.42
3:XV:647:GLN:H	3:XV:647:GLN:HG3	1.56	0.42
1:Aa:20:ALA:HB1	1:Aa:48:VAL:CG2	2.49	0.42
1:Cd:80:ILE:HD12	3:Yb:861:ILE:HG22	2.02	0.42
1:Fc:27:MET:SD	1:Fc:50:VAL:HG21	2.59	0.42
1:Fd:27:MET:SD	1:Fd:50:VAL:HG21	2.59	0.42
1:Bv:91:ILE:HD13	1:Iu:35:LEU:HD21	2.01	0.42
1:Am:22:GLU:OE2	3:Yk:865:GLY:N	2.24	0.42
1:Hm:80:ILE:CD1	3:Yk:848:ILE:CG2	2.96	0.42
1:Kk:35:LEU:HD11	1:Kk:48:VAL:CG1	2.50	0.42
1:Kn:58:ASN:OD1	3:Ym:802:VAL:HG13	2.20	0.42
1:Ep:9:LEU:HD11	1:Ep:49:LEU:HD23	2.01	0.42
1:Fp:12:ILE:HG23	1:Fp:75:LEU:CD1	2.50	0.42
1:Fs:27:MET:SD	1:Fs:50:VAL:HG21	2.59	0.42
1:Gr:18:VAL:N	1:Gr:19:PRO:CD	2.83	0.42
1:Kj:58:ASN:OD1	3:Ys:802:VAL:CG1	2.68	0.42
1:Ks:58:ASN:OD1	3:Yr:802:VAL:HG13	2.20	0.42
1:Os:12:ILE:HG23	1:Os:75:LEU:CD1	2.50	0.42
1:DD:11:MET:HG2	1:DD:49:LEU:HD22	2.01	0.42
1:Dw:22:GLU:HG3	1:Dw:23:ALA:N	2.35	0.42
1:Fh:17:LEU:HD23	1:Dh:47:THR:CG2	2.49	0.42
1:Fq:71:VAL:HG13	1:Dq:79:HIS:CD2	2.52	0.42
1:DH:13:GLU:HB3	1:DH:76:VAL:HB	2.00	0.42
1:Fl:12:ILE:HG23	1:Fl:75:LEU:CD1	2.50	0.42
1:BC:91:ILE:HD12	1:IB:21:ILE:CD1	2.48	0.42
1:BE:11:MET:HB3	1:ID:18:VAL:CG2	2.46	0.42
1:EA:85:HIS:NE2	1:D8:28:THR:HG22	2.34	0.42
1:NB:12:ILE:HG23	1:NB:75:LEU:HD12	2.00	0.42
1:C3:18:VAL:HG23	1:H2:47:THR:HG23	2.00	0.42
1:D2:25:ASP:HA	1:Ef:88:VAL:CG2	2.49	0.42
1:E1:9:LEU:HD11	1:E1:49:LEU:HD23	2.01	0.42
1:E2:54:THR:HG22	3:Y2:707:ILE:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E4:83:ARG:NH2	1:N5:32:GLU:CD	2.77	0.42
1:G2:18:VAL:HB	1:G2:19:PRO:HD3	2.02	0.42
1:H2:57:VAL:HG12	1:H2:80:ILE:HG23	2.01	0.42
1:J1:72:GLY:CA	1:O1:77:ALA:HB2	2.50	0.42
1:L5:31:ALA:O	1:JR:83:ARG:HD2	2.19	0.42
1:B8:41:VAL:HG13	1:I7:40:PHE:HD1	1.83	0.42
1:B9:41:VAL:HG13	1:I8:40:PHE:HD1	1.84	0.42
1:E6:91:ILE:CG2	1:DM:35:LEU:CD2	2.94	0.42
1:E8:68:CYS:SG	1:E8:75:LEU:HD13	2.58	0.42
1:K7:35:LEU:HD11	1:K7:48:VAL:CG1	2.50	0.42
1:K7:62:ARG:HA	3:Y6:806:ILE:HD11	2.01	0.42
1:O8:79:HIS:HA	3:X8:714:THR:O	2.19	0.42
1:CR:18:VAL:HG22	1:HQ:11:MET:CB	2.49	0.42
1:ET:68:CYS:SG	1:ET:75:LEU:HD13	2.58	0.42
2:PS:14:ASN:HD21	2:PT:76:ILE:N	2.17	0.42
1:BK:11:MET:HB3	1:IJ:18:VAL:CG2	2.46	0.42
1:JJ:62:ARG:HD3	3:Xn:620:SER:O	2.20	0.42
1:KH:58:ASN:OD1	3:YG:802:VAL:HG13	2.20	0.42
1:NH:12:ILE:HG23	1:NH:75:LEU:HD12	2.00	0.42
3:XK:616:ILE:HD12	1:Dm:61:VAL:CG1	2.42	0.42
1:BN:62:ARG:HB3	3:YM:720:ALA:HB3	2.02	0.42
1:CN:18:VAL:HG23	1:HM:47:THR:HG23	2.00	0.42
1:DL:28:THR:HG22	1:Ew:85:HIS:CD2	2.54	0.42
1:DL:28:THR:CG2	1:Ew:87:GLU:OE1	2.68	0.42
1:EM:77:ALA:HB1	1:D6:18:VAL:HG11	2.02	0.42
1:EO:9:LEU:HD11	1:EO:49:LEU:HD23	2.01	0.42
1:GL:18:VAL:N	1:GL:19:PRO:CD	2.83	0.42
1:JO:72:GLY:CA	1:OO:77:ALA:HB2	2.49	0.42
1:KO:35:LEU:HD11	1:KO:48:VAL:CG1	2.50	0.42
2:PO:68:PRO:HA	2:PF:57:ALA:HB1	2.00	0.42
1:Ch:80:ILE:HD12	3:Yf:861:ILE:HG22	2.02	0.42
1:Ff:12:ILE:HG23	1:Ff:75:LEU:CD1	2.50	0.42
1:Ke:35:LEU:HD11	1:Ke:48:VAL:CG1	2.50	0.42
1:Kh:58:ASN:OD1	3:Yg:802:VAL:HG13	2.20	0.42
1:Ki:58:ASN:OD1	3:Yh:802:VAL:CG1	2.68	0.42
1:Nf:58:ASN:HA	1:Nf:80:ILE:HD13	2.02	0.42
1:Oe:12:ILE:HG23	1:Oe:75:LEU:CD1	2.50	0.42
1:Of:12:ILE:HG23	1:Of:75:LEU:CD1	2.50	0.42
1:Oi:12:ILE:HG23	1:Oi:75:LEU:CD1	2.50	0.42
1:FX:12:ILE:HG23	1:FX:75:LEU:CD1	2.50	0.42
1:GZ:18:VAL:N	1:GZ:19:PRO:CD	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KZ:80:ILE:CD1	3:YY:806:ILE:HG21	2.49	0.42
2:PZ:39:VAL:HG21	2:PZ:67:TYR:HE1	1.85	0.42
1:Bc:91:ILE:HD13	1:Ib:35:LEU:HD21	2.01	0.42
1:Da:47:THR:CG2	1:Fa:17:LEU:HD23	2.48	0.42
1:Eb:9:LEU:HD11	1:Eb:49:LEU:HD23	2.01	0.42
1:Ed:83:ARG:NH2	1:NU:32:GLU:CD	2.77	0.42
1:Jd:72:GLY:CA	1:Od:77:ALA:HB2	2.49	0.42
1:Kd:62:ARG:HA	3:Yc:806:ILE:HD11	2.01	0.42
1:Lc:62:ARG:HD3	3:Xc:634:GLU:N	2.29	0.42
1:Od:12:ILE:HG23	1:Od:75:LEU:CD1	2.50	0.42
1:Ju:72:GLY:CA	1:Ou:77:ALA:HB2	2.50	0.42
1:Nt:79:HIS:HA	3:Yx:714:THR:O	2.20	0.42
1:Nx:58:ASN:HA	1:Nx:80:ILE:HD13	2.02	0.42
3:Xx:632:ILE:H	3:Xx:632:ILE:HG12	1.62	0.42
1:Cn:80:ILE:HD12	3:Yl:861:ILE:HG22	2.02	0.42
1:Fn:12:ILE:HG23	1:Fn:75:LEU:CD1	2.50	0.42
1:Jl:72:GLY:CA	1:Ol:77:ALA:HB2	2.50	0.42
1:Nl:58:ASN:HA	1:Nl:80:ILE:HD13	2.02	0.42
1:Ol:12:ILE:HG23	1:Ol:75:LEU:CD1	2.50	0.42
1:Bs:41:VAL:HG13	1:Ir:40:PHE:HD1	1.84	0.42
1:Cs:80:ILE:HD12	3:Yq:861:ILE:HG22	2.02	0.42
1:Gj:77:ALA:HB2	1:Hj:72:GLY:CA	2.50	0.42
2:Pq:4:MET:O	2:Pq:50:VAL:HG22	2.19	0.42
1:J6:12:ILE:HG23	1:J6:75:LEU:HD23	2.01	0.42
3:X7:617:SER:O	1:DM:79:HIS:HA	2.20	0.42
1:Dw:13:GLU:HB3	1:Dw:76:VAL:HB	2.01	0.42
1:DY:58:ASN:OD1	1:DY:80:ILE:HG21	2.19	0.42
1:El:91:ILE:HG21	1:DF:35:LEU:CD2	2.48	0.42
1:CD:80:ILE:HD12	3:YB:861:ILE:HG22	2.02	0.42
1:EE:91:ILE:CG2	1:D1:35:LEU:HD23	2.49	0.42
1:KB:58:ASN:OD1	3:YA:802:VAL:HG13	2.20	0.42
1:KD:62:ARG:HA	3:YC:806:ILE:HD11	2.01	0.42
1:OE:12:ILE:HG23	1:OE:75:LEU:CD1	2.50	0.42
3:XC:616:ILE:HD13	1:Du:78:ALA:HB1	2.01	0.42
1:B4:41:VAL:HG13	1:I3:40:PHE:HD1	1.84	0.42
1:C2:29:LYS:HE2	2:P1:45:ILE:HG22	2.01	0.42
1:C3:25:ASP:HA	1:H2:88:VAL:CG2	2.48	0.42
1:F4:12:ILE:HG23	1:F4:75:LEU:CD1	2.50	0.42
1:F4:35:LEU:CD2	1:D4:91:ILE:HG23	2.42	0.42
1:H3:57:VAL:HG12	1:H3:80:ILE:HG23	2.01	0.42
1:K1:35:LEU:HD11	1:K1:48:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K5:80:ILE:CD1	3:Y4:806:ILE:HG21	2.49	0.42
1:N5:58:ASN:HA	1:N5:80:ILE:HD13	2.02	0.42
1:C8:18:VAL:HG22	1:H7:11:MET:CB	2.49	0.42
1:F0:12:ILE:HG23	1:F0:75:LEU:CD1	2.50	0.42
1:G0:87:GLU:H	1:G0:87:GLU:HG2	1.30	0.42
1:H7:80:ILE:CD1	3:Y0:848:ILE:CG2	2.96	0.42
1:K0:35:LEU:HD11	1:K0:48:VAL:CG1	2.50	0.42
1:N7:58:ASN:HA	1:N7:80:ILE:HD13	2.02	0.42
1:CQ:29:LYS:HE2	2:PP:45:ILE:HG22	2.01	0.42
1:FQ:12:ILE:HG23	1:FQ:75:LEU:CD1	2.50	0.42
1:FR:27:MET:SD	1:FR:50:VAL:HG21	2.59	0.42
1:GP:18:VAL:N	1:GP:19:PRO:CD	2.83	0.42
1:GR:79:HIS:ND1	3:YQ:786:SER:HB2	2.35	0.42
1:KS:35:LEU:HD11	1:KS:48:VAL:CG1	2.50	0.42
1:KS:62:ARG:HA	3:YR:806:ILE:HD11	2.01	0.42
1:KT:58:ASN:OD1	3:YS:802:VAL:CG1	2.68	0.42
3:XQ:628:THR:O	1:JN:79:HIS:HA	2.18	0.42
1:BI:91:ILE:HD12	1:IH:21:ILE:CD1	2.48	0.42
1:BJ:41:VAL:HG13	1:II:40:PHE:HD1	1.84	0.42
1:BJ:66:ASP:OD2	3:YI:719:LEU:HB2	2.19	0.42
1:CJ:80:ILE:HD12	3:YH:861:ILE:HG22	2.02	0.42
1:EH:91:ILE:CG2	1:DU:35:LEU:HD23	2.50	0.42
1:GI:18:VAL:N	1:GI:19:PRO:CD	2.83	0.42
1:NJ:58:ASN:HA	1:NJ:80:ILE:HD13	2.02	0.42
1:OJ:85:HIS:HE2	1:DJ:83:ARG:NH1	1.91	0.42
1:AN:22:GLU:OE2	3:YL:865:GLY:N	2.25	0.42
1:GF:77:ALA:HB2	1:HF:72:GLY:CA	2.50	0.42
1:HF:57:VAL:HG12	1:HF:80:ILE:HG23	2.01	0.42
1:HL:57:VAL:HG12	1:HL:80:ILE:HG23	2.01	0.42
1:HL:62:ARG:HG3	3:YO:848:ILE:CD1	2.32	0.42
1:HO:57:VAL:HG12	1:HO:80:ILE:HG23	2.01	0.42
1:KL:35:LEU:HD11	1:KL:48:VAL:CG1	2.50	0.42
1:NN:58:ASN:HA	1:NN:80:ILE:HD13	2.02	0.42
1:OF:83:ARG:CZ	1:FF:32:GLU:HA	2.49	0.42
1:Di:25:ASP:CA	1:EV:88:VAL:HG21	2.49	0.42
1:Gf:14:THR:HB	1:Gf:19:PRO:HB2	2.01	0.42
1:Ji:7:ILE:HD11	1:LW:32:GLU:HB2	2.01	0.42
1:Kg:35:LEU:HD11	1:Kg:48:VAL:CG1	2.50	0.42
1:Lf:58:ASN:CG	3:Xf:643:TYR:HB3	2.45	0.42
1:Lf:65:ALA:HB3	3:Xf:636:GLN:HG2	2.00	0.42
1:Lg:62:ARG:NH1	3:Xg:634:GLU:HA	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Og:12:ILE:HG23	1:Og:75:LEU:CD1	2.50	0.42
3:Xi:637:LEU:HA	3:Xi:649:THR:CG2	2.50	0.42
1:BY:41:VAL:HG13	1:IX:40:PHE:HD1	1.84	0.42
1:BY:66:ASP:OD2	3:YX:719:LEU:HB2	2.19	0.42
1:CW:29:LYS:HE2	2:PV:45:ILE:HG22	2.01	0.42
1:CY:80:ILE:HD12	3:YW:861:ILE:HG22	2.02	0.42
1:GV:18:VAL:N	1:GV:19:PRO:CD	2.83	0.42
1:LZ:32:GLU:OE1	1:JI:7:ILE:HG12	2.20	0.42
1:OV:12:ILE:HG23	1:OV:75:LEU:CD1	2.50	0.42
3:XZ:692:GLN:HA	3:XZ:696:ARG:HD2	2.02	0.42
1:Ga:62:ARG:HG2	3:YU:785:VAL:HG21	2.01	0.42
1:NU:43:GLY:HA2	3:XU:696:ARG:HH22	1.85	0.42
1:Nb:58:ASN:HA	1:Nb:80:ILE:HD13	2.02	0.42
1:OU:77:ALA:HB2	1:JU:72:GLY:CA	2.50	0.42
1:Oa:12:ILE:HG23	1:Oa:75:LEU:CD1	2.50	0.42
2:Pa:53:VAL:HB	2:Pa:74:ILE:HD13	2.02	0.42
1:Bt:62:ARG:HB3	3:Yx:720:ALA:HB3	2.01	0.42
1:Bu:41:VAL:HG13	1:It:40:PHE:HD1	1.84	0.42
1:Bw:41:VAL:HG13	1:Iv:40:PHE:HD1	1.84	0.42
1:Gu:18:VAL:HB	1:Gu:19:PRO:HD3	2.02	0.42
1:Jt:72:GLY:CA	1:Ot:77:ALA:HB2	2.50	0.42
1:Nw:58:ASN:HA	1:Nw:80:ILE:HD13	2.02	0.42
1:Ot:12:ILE:HG23	1:Ot:75:LEU:CD1	2.50	0.42
1:Ov:12:ILE:HG23	1:Ov:75:LEU:CD1	2.50	0.42
3:Xu:643:TYR:HE1	1:Dr:58:ASN:HB3	1.84	0.42
1:Bk:79:HIS:HA	3:Yo:725:THR:O	2.20	0.42
1:Do:35:LEU:CD2	1:Es:91:ILE:CG2	2.95	0.42
1:Fn:27:MET:SD	1:Fn:50:VAL:HG21	2.59	0.42
1:Kl:58:ASN:OD1	3:Yk:802:VAL:HG13	2.20	0.42
1:Bq:41:VAL:HG13	1:Ip:40:PHE:HD1	1.84	0.42
1:Ks:62:ARG:HA	3:Yr:806:ILE:HD11	2.01	0.42
2:Pr:39:VAL:HG23	2:Ps:1:MET:HE1	2.01	0.42
1:D4:34:ARG:HG2	1:D4:51:ARG:O	2.20	0.42
3:Xq:693:THR:HB	3:Xq:696:ARG:HB3	2.01	0.42
1:FL:27:MET:SD	1:FL:50:VAL:HG21	2.59	0.42
1:Fh:12:ILE:HG23	1:Fh:75:LEU:CD1	2.50	0.42
1:Fh:27:MET:SD	1:Fh:50:VAL:HG21	2.59	0.42
1:Em:45:TYR:CD1	1:Em:76:VAL:HG21	2.55	0.42
1:DJ:36:VAL:O	1:DJ:96:PRO:HD3	2.19	0.42
1:Km:35:LEU:HD11	1:Km:48:VAL:CG1	2.50	0.42
1:BD:79:HIS:HA	3:YC:725:THR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DC:47:THR:CG2	1:FC:17:LEU:HD23	2.48	0.42
1:KB:62:ARG:HA	3:YA:806:ILE:HD11	2.01	0.42
1:NA:58:ASN:HA	1:NA:80:ILE:HD13	2.02	0.42
1:ND:58:ASN:HA	1:ND:80:ILE:HD13	2.02	0.42
1:B4:14:THR:HB	1:B4:19:PRO:HB2	2.02	0.42
1:F2:12:ILE:HG23	1:F2:75:LEU:CD1	2.50	0.42
1:K3:35:LEU:HD11	1:K3:48:VAL:CG1	2.50	0.42
1:O5:12:ILE:HG23	1:O5:75:LEU:CD1	2.50	0.42
1:D0:35:LEU:HD23	1:EQ:91:ILE:CG2	2.50	0.42
1:E6:9:LEU:HD11	1:E6:49:LEU:HD23	2.01	0.42
1:F6:27:MET:SD	1:F6:50:VAL:HG21	2.60	0.42
1:G9:18:VAL:N	1:G9:19:PRO:CD	2.83	0.42
1:J8:72:GLY:CA	1:O8:77:ALA:HB2	2.50	0.42
1:K6:35:LEU:HD11	1:K6:48:VAL:CG1	2.50	0.42
1:BQ:11:MET:HB3	1:IP:18:VAL:CG2	2.46	0.42
1:BQ:14:THR:HB	1:BQ:19:PRO:HB2	2.02	0.42
1:CR:25:ASP:HA	1:HQ:88:VAL:CG2	2.48	0.42
1:ER:9:LEU:HD11	1:ER:49:LEU:HD23	2.01	0.42
1:FS:21:ILE:CG2	1:DS:92:LEU:HD21	2.50	0.42
1:GQ:94:LYS:HD2	1:GQ:94:LYS:HA	1.88	0.42
1:JT:72:GLY:CA	1:OT:77:ALA:HB2	2.49	0.42
1:NS:58:ASN:HA	1:NS:80:ILE:HD13	2.02	0.42
3:XR:632:ILE:H	3:XR:632:ILE:HG12	1.70	0.42
1:AH:20:ALA:HB1	1:AH:48:VAL:CG2	2.49	0.42
1:BG:79:HIS:HA	3:YK:725:THR:O	2.20	0.42
1:FH:12:ILE:HG23	1:FH:75:LEU:CD1	2.50	0.42
1:KH:62:ARG:HA	3:YG:806:ILE:HD11	2.01	0.42
1:KK:80:ILE:CD1	3:YJ:806:ILE:HG21	2.50	0.42
1:OJ:12:ILE:HG23	1:OJ:75:LEU:CD1	2.50	0.42
1:OK:12:ILE:HG23	1:OK:75:LEU:CD1	2.50	0.42
3:XK:692:GLN:HA	3:XK:696:ARG:HD2	2.02	0.42
1:BM:14:THR:HB	1:BM:19:PRO:HB2	2.02	0.42
1:EO:83:ARG:NH2	1:NF:32:GLU:CD	2.77	0.42
1:ON:12:ILE:HG23	1:ON:75:LEU:CD1	2.50	0.42
3:XL:622:ASP:C	1:Jl:62:ARG:HH11	2.18	0.42
1:Bf:14:THR:HB	1:Bf:19:PRO:HB2	2.02	0.42
1:Bg:91:ILE:HD13	1:If:35:LEU:HD21	2.01	0.42
1:Bh:11:MET:HB3	1:Ig:18:VAL:CG2	2.45	0.42
1:Ei:91:ILE:CG2	1:DV:35:LEU:HD23	2.49	0.42
1:Hf:80:ILE:CD1	3:Yi:848:ILE:CG2	2.96	0.42
1:Ji:72:GLY:CA	1:Oi:77:ALA:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kf:58:ASN:OD1	3:Ye:802:VAL:HG13	2.20	0.42
2:Pe:39:VAL:HG21	2:Pe:67:TYR:HE1	1.85	0.42
1:BV:11:MET:HB3	1:IZ:18:VAL:CG2	2.48	0.42
1:EX:9:LEU:HD11	1:EX:49:LEU:HD23	2.01	0.42
1:EX:77:ALA:HB2	1:Dn:72:GLY:HA2	2.02	0.42
1:GV:62:ARG:HG2	3:YZ:785:VAL:HG21	2.01	0.42
1:JW:72:GLY:CA	1:OW:77:ALA:HB2	2.50	0.42
1:JX:7:ILE:HG12	1:Lo:32:GLU:OE1	2.20	0.42
1:KW:35:LEU:HD11	1:KW:48:VAL:CG1	2.50	0.42
2:PV:42:ILE:HD12	3:YY:851:SER:HB3	2.02	0.42
1:Bd:14:THR:HB	1:Bd:19:PRO:HB2	2.02	0.42
1:Cc:79:HIS:HD2	3:Ya:862:THR:OG1	2.02	0.42
1:Cd:29:LYS:HE2	2:Pc:45:ILE:HG22	2.01	0.42
1:Fb:18:VAL:CA	1:Db:11:MET:HE2	2.18	0.42
1:Jc:72:GLY:CA	1:Oc:77:ALA:HB2	2.50	0.42
1:Kd:35:LEU:HD11	1:Kd:48:VAL:CG1	2.50	0.42
1:OU:12:ILE:HG23	1:OU:75:LEU:CD1	2.50	0.42
1:Bt:14:THR:HB	1:Bt:19:PRO:HB2	2.02	0.42
1:Cx:62:ARG:HB3	2:Pw:21:HIS:HB3	2.02	0.42
1:Ew:9:LEU:HD11	1:Ew:49:LEU:HD23	2.01	0.42
1:Fx:27:MET:SD	1:Fx:50:VAL:HG21	2.59	0.42
1:Jx:72:GLY:CA	1:Ox:77:ALA:HB2	2.50	0.42
1:Kt:35:LEU:HD11	1:Kt:48:VAL:CG1	2.50	0.42
1:Kx:58:ASN:OD1	3:Yw:802:VAL:CG1	2.68	0.42
1:Ou:12:ILE:HG23	1:Ou:75:LEU:CD1	2.50	0.42
1:Ox:12:ILE:HG23	1:Ox:75:LEU:CD1	2.50	0.42
2:Px:42:ILE:HD12	3:Yv:851:SER:HB3	2.02	0.42
1:Bl:14:THR:HB	1:Bl:19:PRO:HB2	2.02	0.42
1:Bl:41:VAL:HG13	1:Ik:40:PHE:HD1	1.84	0.42
1:En:83:ARG:NH2	1:No:32:GLU:CD	2.77	0.42
1:Gl:14:THR:HB	1:Gl:19:PRO:HB2	2.01	0.42
1:Jo:72:GLY:CA	1:Oo:77:ALA:HB2	2.50	0.42
3:Xo:691:ILE:H	3:Xo:691:ILE:HG13	1.58	0.42
1:Gj:87:GLU:H	1:Gj:87:GLU:HG2	1.30	0.42
1:Gs:18:VAL:N	1:Gs:19:PRO:CD	2.83	0.42
1:Hq:62:ARG:HG2	3:Yj:848:ILE:HD11	1.81	0.42
1:Jj:79:HIS:CB	3:XX:628:THR:OG1	2.68	0.42
1:Kj:35:LEU:HD11	1:Kj:48:VAL:CG1	2.50	0.42
1:Dw:15:ARG:HA	1:Dw:44:GLY:O	2.20	0.42
1:DY:18:VAL:O	1:DY:19:PRO:C	2.61	0.42
1:DY:39:GLN:HB2	1:DY:47:THR:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dq:27:MET:HB3	1:Dq:60:ALA:HB1	2.02	0.42
1:DH:27:MET:HG2	1:DH:60:ALA:O	2.20	0.42
1:JI:72:GLY:CA	1:OI:77:ALA:HB2	2.50	0.42
1:KI:35:LEU:HD11	1:KI:48:VAL:CG1	2.50	0.42
1:Om:12:ILE:HG23	1:Om:75:LEU:CD1	2.50	0.42
3:Xm:622:ASP:O	1:JF:62:ARG:HD2	2.19	0.42
1:DF:7:ILE:HD11	1:JF:32:GLU:CD	2.43	0.42
1:DB:28:THR:CG2	1:Eu:85:HIS:CE1	3.03	0.41
1:DB:78:ALA:O	3:Xv:617:SER:HB2	2.20	0.41
1:FB:12:ILE:HG23	1:FB:75:LEU:CD1	2.50	0.41
1:GC:18:VAL:N	1:GC:19:PRO:CD	2.83	0.41
1:GC:79:HIS:ND1	3:YB:786:SER:HB2	2.35	0.41
1:JB:7:ILE:HD11	1:Lv:32:GLU:HB2	2.02	0.41
1:JE:7:ILE:HD11	1:L2:32:GLU:HB2	2.01	0.41
1:KC:35:LEU:HD11	1:KC:48:VAL:CG1	2.50	0.41
1:KE:80:ILE:CD1	3:YD:806:ILE:HG21	2.50	0.41
1:LB:58:ASN:CG	3:XB:643:TYR:HB3	2.45	0.41
1:LB:65:ALA:HB3	3:XB:636:GLN:HG2	2.00	0.41
1:NE:58:ASN:HA	1:NE:80:ILE:HD13	2.02	0.41
1:OD:12:ILE:HG23	1:OD:75:LEU:CD1	2.50	0.41
1:J2:7:ILE:HG12	1:Lg:32:GLU:OE1	2.19	0.41
1:M3:30:ALA:O	1:Mc:82:ALA:HB3	2.20	0.41
2:P1:14:ASN:O	2:P2:42:ILE:HD12	2.20	0.41
1:E7:9:LEU:HD11	1:E7:49:LEU:HD23	2.01	0.41
1:O7:12:ILE:HG23	1:O7:75:LEU:CD1	2.50	0.41
1:BP:62:ARG:HB3	3:YT:720:ALA:HB3	2.01	0.41
1:ER:13:GLU:OE2	1:D4:16:GLY:HA2	2.19	0.41
1:FT:12:ILE:HG23	1:FT:75:LEU:CD1	2.50	0.41
1:JP:72:GLY:CA	1:OP:77:ALA:HB2	2.50	0.41
1:KQ:35:LEU:HD11	1:KQ:48:VAL:CG1	2.50	0.41
1:OS:12:ILE:HG23	1:OS:75:LEU:CD1	2.50	0.41
3:XT:643:TYR:CE2	1:Da:55:GLY:HA2	2.55	0.41
1:FG:12:ILE:HG23	1:FG:75:LEU:CD1	2.50	0.41
1:FI:17:LEU:HD23	1:DI:47:THR:CG2	2.48	0.41
1:GG:18:VAL:N	1:GG:19:PRO:CD	2.82	0.41
1:GI:79:HIS:ND1	3:YH:786:SER:HB2	2.35	0.41
1:JJ:62:ARG:NH2	3:Xn:624:SER:CA	2.82	0.41
1:JJ:72:GLY:CA	1:OJ:77:ALA:HB2	2.50	0.41
1:NG:58:ASN:HA	1:NG:80:ILE:HD13	2.02	0.41
2:PI:39:VAL:HG21	2:PI:67:TYR:HE1	1.85	0.41
2:PJ:10:LEU:HD21	2:PK:77:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GN:79:HIS:ND1	3:YM:786:SER:HB2	2.35	0.41
1:OL:15:ARG:HD3	3:XL:700:ASN:C	2.45	0.41
1:Bf:41:VAL:HG13	1:Ie:40:PHE:HD1	1.84	0.41
1:De:28:THR:O	1:Ld:83:ARG:NH1	2.50	0.41
1:Fe:12:ILE:HG23	1:Fe:75:LEU:CD1	2.50	0.41
1:Ig:70:ARG:HH12	3:Yg:734:ALA:HA	1.86	0.41
1:Kf:35:LEU:HD11	1:Kf:48:VAL:CG1	2.50	0.41
1:Lf:61:VAL:HG12	3:Xf:638:ILE:HD12	2.02	0.41
1:Nh:58:ASN:HA	1:Nh:80:ILE:HD13	2.02	0.41
1:Ni:79:HIS:HA	3:Yh:714:THR:O	2.20	0.41
1:DZ:35:LEU:HD23	1:Ed:91:ILE:CG2	2.50	0.41
1:EW:85:HIS:ND1	1:EW:87:GLU:CG	2.76	0.41
1:FV:27:MET:SD	1:FV:50:VAL:HG21	2.59	0.41
1:OW:12:ILE:HG23	1:OW:75:LEU:CD1	2.50	0.41
1:OX:12:ILE:HG23	1:OX:75:LEU:CD1	2.50	0.41
2:PX:39:VAL:HG23	2:PY:1:MET:HE1	2.01	0.41
1:Bb:61:VAL:O	1:Bb:61:VAL:HG12	2.20	0.41
1:Fc:12:ILE:HG23	1:Fc:75:LEU:CD1	2.50	0.41
1:Ka:35:LEU:HD11	1:Ka:48:VAL:CG1	2.50	0.41
1:Kc:35:LEU:HD11	1:Kc:48:VAL:CG1	2.50	0.41
1:Nc:58:ASN:HA	1:Nc:80:ILE:HD13	2.02	0.41
1:Oc:12:ILE:HG23	1:Oc:75:LEU:CD1	2.50	0.41
1:Bw:61:VAL:HG12	3:Yv:724:ILE:HD13	2.01	0.41
1:Bw:79:HIS:HA	3:Yv:725:THR:O	2.20	0.41
1:Cv:25:ASP:HA	1:Hu:88:VAL:CG2	2.48	0.41
1:Dt:28:THR:HG22	1:Er:85:HIS:CE1	2.54	0.41
1:Fx:12:ILE:HG23	1:Fx:75:LEU:CD1	2.50	0.41
1:Kv:35:LEU:HD11	1:Kv:48:VAL:CG1	2.50	0.41
1:Ow:12:ILE:HG23	1:Ow:75:LEU:CD1	2.50	0.41
1:Bl:79:HIS:HA	3:Yk:725:THR:O	2.19	0.41
1:Fk:12:ILE:HG23	1:Fk:75:LEU:CD1	2.50	0.41
1:Kl:35:LEU:HD11	1:Kl:48:VAL:CG1	2.50	0.41
1:Kn:35:LEU:HD11	1:Kn:48:VAL:CG1	2.50	0.41
1:Ok:12:ILE:HG23	1:Ok:75:LEU:CD1	2.50	0.41
1:Br:61:VAL:HG12	1:Br:61:VAL:O	2.20	0.41
1:Eq:83:ARG:HH21	1:Nr:32:GLU:CD	2.28	0.41
1:Jj:72:GLY:CA	1:Oj:77:ALA:HB2	2.50	0.41
1:Kr:35:LEU:HD11	1:Kr:48:VAL:CG1	2.50	0.41
1:Ns:79:HIS:HA	3:Yr:714:THR:O	2.20	0.41
2:Pp:39:VAL:HG23	2:Pq:1:MET:HE1	2.02	0.41
2:Ps:10:LEU:HD21	2:Pj:77:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:XY:718:MET:HE3	3:XY:718:MET:HB3	1.94	0.41
1:Fh:71:VAL:CG2	1:Dh:79:HIS:CD2	3.02	0.41
1:EL:70:ARG:HA	1:EL:70:ARG:HD3	1.88	0.41
1:Mm:12:ILE:HG23	1:Mm:75:LEU:HD12	2.01	0.41
1:BD:91:ILE:HD12	1:IC:21:ILE:CD1	2.45	0.41
1:FA:12:ILE:HG23	1:FA:75:LEU:CD1	2.50	0.41
1:FE:12:ILE:HG23	1:FE:75:LEU:CD1	2.50	0.41
1:GB:14:THR:HB	1:GB:19:PRO:HB2	2.01	0.41
1:GB:18:VAL:HB	1:GB:19:PRO:HD3	2.02	0.41
1:JD:72:GLY:CA	1:OD:77:ALA:HB2	2.50	0.41
1:B5:91:ILE:HD12	1:I4:21:ILE:CD1	2.44	0.41
1:C1:25:ASP:HA	1:H5:88:VAL:CG2	2.48	0.41
1:F1:12:ILE:HG23	1:F1:75:LEU:CD1	2.50	0.41
1:F1:27:MET:SD	1:F1:50:VAL:HG21	2.59	0.41
1:F4:28:THR:HB	1:D4:85:HIS:CG	2.52	0.41
1:G2:14:THR:HB	1:G2:19:PRO:HB2	2.01	0.41
1:J2:72:GLY:CA	1:O2:77:ALA:HB2	2.50	0.41
1:O4:12:ILE:HG23	1:O4:75:LEU:CD1	2.50	0.41
3:Y2:867:ALA:O	3:Y2:868:ARG:C	2.60	0.41
1:E6:77:ALA:HB1	1:DM:18:VAL:HG11	2.01	0.41
1:N9:58:ASN:HA	1:N9:80:ILE:HD13	2.02	0.41
2:P6:53:VAL:HB	2:P6:74:ILE:HD13	2.02	0.41
1:FT:12:ILE:HD12	1:FT:27:MET:SD	2.61	0.41
1:HR:80:ILE:CD1	3:YP:848:ILE:CG2	2.95	0.41
1:KR:35:LEU:HD11	1:KR:48:VAL:CG1	2.50	0.41
3:XQ:643:TYR:CE1	1:DN:55:GLY:HA2	2.55	0.41
1:DK:35:LEU:HD23	1:EO:91:ILE:CG2	2.50	0.41
1:FK:12:ILE:HG23	1:FK:75:LEU:CD1	2.50	0.41
1:GH:14:THR:HB	1:GH:19:PRO:HB2	2.01	0.41
1:GH:18:VAL:HB	1:GH:19:PRO:HD3	2.02	0.41
1:NK:58:ASN:HA	1:NK:80:ILE:HD13	2.02	0.41
1:KF:58:ASN:OD1	3:YO:802:VAL:CG1	2.68	0.41
1:NO:79:HIS:HA	3:YN:714:THR:O	2.20	0.41
2:PL:42:ILE:HD12	3:YO:851:SER:HB3	2.02	0.41
2:PO:65:LYS:HB3	2:PO:65:LYS:HE2	1.70	0.41
2:PF:42:ILE:HD12	3:YN:851:SER:HB3	2.03	0.41
3:XO:700:ASN:HD22	3:XO:700:ASN:HA	1.61	0.41
1:Bh:14:THR:HB	1:Bh:19:PRO:HB2	2.02	0.41
1:Eh:9:LEU:HD11	1:Eh:49:LEU:HD23	2.01	0.41
1:Eh:83:ARG:NH2	1:Ni:32:GLU:CD	2.77	0.41
1:Ni:58:ASN:HA	1:Ni:80:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ph:14:ASN:HD21	2:Pi:76:ILE:N	2.17	0.41
1:BZ:61:VAL:O	1:BZ:61:VAL:HG12	2.20	0.41
1:EY:83:ARG:NH2	1:NZ:32:GLU:CD	2.77	0.41
1:FW:12:ILE:HG23	1:FW:75:LEU:CD1	2.50	0.41
1:GX:79:HIS:ND1	3:YW:786:SER:HB2	2.35	0.41
1:KZ:35:LEU:HD12	1:KZ:35:LEU:HA	1.97	0.41
1:KZ:35:LEU:HD11	1:KZ:48:VAL:CG1	2.50	0.41
1:Ba:91:ILE:CD1	1:IU:21:ILE:HD13	2.49	0.41
1:Bb:41:VAL:HG13	1:Ia:40:PHE:HD1	1.84	0.41
1:Bd:61:VAL:O	1:Bd:61:VAL:HG12	2.20	0.41
1:Ca:25:ASP:HA	1:HU:88:VAL:CG2	2.48	0.41
1:Fd:12:ILE:HG23	1:Fd:75:LEU:CD1	2.50	0.41
1:Jb:30:ALA:O	1:Db:82:ALA:CB	2.55	0.41
1:Ob:12:ILE:HG23	1:Ob:75:LEU:CD1	2.50	0.41
1:Bv:47:THR:HG21	1:Iu:18:VAL:CG2	2.46	0.41
1:Bv:91:ILE:HD12	1:Iu:21:ILE:CD1	2.48	0.41
1:Bx:47:THR:HG21	1:Iw:18:VAL:CG2	2.45	0.41
1:Ew:83:ARG:NH2	1:Nx:32:GLU:CD	2.77	0.41
1:Ex:91:ILE:CG2	1:Dk:35:LEU:CD2	2.97	0.41
1:Gt:18:VAL:N	1:Gt:19:PRO:CD	2.83	0.41
1:Ku:58:ASN:OD1	3:Yt:802:VAL:HG13	2.20	0.41
1:Ov:85:HIS:NE2	1:Jv:28:THR:HG22	2.34	0.41
1:En:9:LEU:HD11	1:En:49:LEU:HD23	2.01	0.41
1:Hl:80:ILE:CD1	3:Yo:848:ILE:CG2	2.96	0.41
3:Xo:692:GLN:HA	3:Xo:696:ARG:HD2	2.02	0.41
1:Fj:12:ILE:HG23	1:Fj:75:LEU:CD1	2.50	0.41
1:Hs:62:ARG:HG2	3:Yq:848:ILE:HD11	1.83	0.41
1:Jr:72:GLY:CA	1:Or:77:ALA:HB2	2.50	0.41
1:Oj:12:ILE:HG23	1:Oj:75:LEU:CD1	2.50	0.41
1:DD:53:GLU:C	1:DD:55:GLY:N	2.77	0.41
1:DS:14:THR:OG1	1:DS:20:ALA:HB2	2.19	0.41
1:Dh:61:VAL:O	1:Dh:62:ARG:C	2.63	0.41
1:Dq:97:GLN:HE21	1:Dq:97:GLN:HB2	1.57	0.41
1:DH:58:ASN:O	1:DH:62:ARG:HG3	2.20	0.41
1:JF:88:VAL:HG21	1:MF:25:ASP:CA	2.46	0.41
1:AD:22:GLU:OE2	3:YB:865:GLY:N	2.25	0.41
1:BB:14:THR:HB	1:BB:19:PRO:HB2	2.02	0.41
1:CC:18:VAL:HG22	1:HB:11:MET:CB	2.49	0.41
1:EA:85:HIS:CD2	1:D8:28:THR:HG22	2.55	0.41
1:EB:83:ARG:NH2	1:NC:32:GLU:CD	2.77	0.41
1:FB:18:VAL:N	1:FB:19:PRO:CD	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GA:18:VAL:N	1:GA:19:PRO:CD	2.83	0.41
2:PD:37:VAL:HG12	2:PE:1:MET:HE2	2.01	0.41
3:XB:628:THR:OG1	1:J8:79:HIS:HD2	2.04	0.41
1:B2:14:THR:HB	1:B2:19:PRO:HB2	2.02	0.41
1:G3:18:VAL:N	1:G3:19:PRO:CD	2.83	0.41
1:K3:14:THR:HB	1:K3:19:PRO:HB2	2.03	0.41
2:P1:42:ILE:HD12	3:Y4:851:SER:HB3	2.02	0.41
1:B0:14:THR:HB	1:B0:19:PRO:HB2	2.03	0.41
1:B6:61:VAL:HG12	3:Y0:724:ILE:HD13	2.01	0.41
1:F7:18:VAL:N	1:F7:19:PRO:CD	2.84	0.41
1:F8:12:ILE:HG23	1:F8:75:LEU:CD1	2.50	0.41
1:G0:94:LYS:HE3	1:G0:94:LYS:HB3	1.85	0.41
1:AR:22:GLU:OE2	3:YP:865:GLY:N	2.25	0.41
1:ES:9:LEU:HD11	1:ES:49:LEU:HD23	2.01	0.41
1:ET:9:LEU:HD11	1:ET:49:LEU:HD23	2.01	0.41
1:IR:70:ARG:HH12	3:YR:734:ALA:HA	1.85	0.41
1:NQ:58:ASN:HA	1:NQ:80:ILE:HD13	2.02	0.41
2:PR:55:SER:HA	2:PR:70:ASP:HA	2.01	0.41
3:XP:691:ILE:H	3:XP:691:ILE:HG13	1.45	0.41
3:XT:632:ILE:H	3:XT:632:ILE:HG12	1.62	0.41
1:BK:14:THR:HB	1:BK:19:PRO:HB2	2.02	0.41
1:GG:62:ARG:HG2	3:YK:785:VAL:HG21	2.01	0.41
1:MJ:82:ALA:HB3	1:MY:30:ALA:O	2.20	0.41
1:BO:14:THR:HB	1:BO:19:PRO:HB2	2.02	0.41
1:FO:27:MET:SD	1:FO:50:VAL:HG21	2.59	0.41
1:KL:14:THR:HB	1:KL:19:PRO:HB2	2.03	0.41
1:KM:35:LEU:HD11	1:KM:48:VAL:CG1	2.50	0.41
1:OM:12:ILE:HG23	1:OM:75:LEU:CD1	2.50	0.41
1:Bg:61:VAL:O	1:Bg:61:VAL:HG12	2.20	0.41
1:Kh:14:THR:HB	1:Kh:19:PRO:HB2	2.03	0.41
1:Kh:35:LEU:HD11	1:Kh:48:VAL:CG1	2.50	0.41
3:Xe:691:ILE:HD12	3:Xe:696:ARG:HH22	1.85	0.41
3:Xf:643:TYR:CE1	1:Dc:55:GLY:HA2	2.55	0.41
3:Xi:616:ILE:CG2	1:Dp:80:ILE:HD11	2.49	0.41
1:BX:14:THR:HB	1:BX:19:PRO:HB2	2.02	0.41
1:BX:88:VAL:O	1:BX:91:ILE:HG12	2.21	0.41
1:EW:9:LEU:HD11	1:EW:49:LEU:HD23	2.01	0.41
1:FZ:18:VAL:N	1:FZ:19:PRO:CD	2.84	0.41
1:JX:62:ARG:NE	3:Xo:624:SER:HB2	2.26	0.41
1:JZ:72:GLY:CA	1:OZ:77:ALA:HB2	2.50	0.41
2:PX:68:PRO:HA	2:PY:57:ALA:HB1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ec:9:LEU:HD11	1:Ec:49:LEU:HD23	2.01	0.41
1:Fa:12:ILE:HG23	1:Fa:75:LEU:CD1	2.50	0.41
1:GU:65:ALA:O	1:GU:66:ASP:C	2.63	0.41
1:Nd:58:ASN:HA	1:Nd:80:ILE:HD13	2.02	0.41
2:Pc:39:VAL:HG23	2:Pd:1:MET:HE1	2.01	0.41
1:Bw:61:VAL:HG12	1:Bw:61:VAL:O	2.21	0.41
1:Ft:12:ILE:HG23	1:Ft:75:LEU:CD1	2.50	0.41
1:Fv:12:ILE:HG23	1:Fv:75:LEU:CD1	2.50	0.41
1:Fv:18:VAL:N	1:Fv:19:PRO:CD	2.84	0.41
1:Kx:35:LEU:HD11	1:Kx:48:VAL:CG1	2.50	0.41
1:Bm:61:VAL:O	1:Bm:61:VAL:HG12	2.20	0.41
1:Bn:14:THR:HB	1:Bn:19:PRO:HB2	2.02	0.41
1:Jn:72:GLY:CA	1:On:77:ALA:HB2	2.50	0.41
1:Kn:14:THR:HB	1:Kn:19:PRO:HB2	2.03	0.41
1:Ko:35:LEU:HD11	1:Ko:48:VAL:CG1	2.50	0.41
3:Yl:707:ILE:HG12	1:El:54:THR:HG22	2.01	0.41
1:Bp:14:THR:HB	1:Bp:19:PRO:HB2	2.02	0.41
1:Ej:9:LEU:HD11	1:Ej:49:LEU:HD23	2.01	0.41
1:Fr:12:ILE:HG23	1:Fr:75:LEU:CD1	2.50	0.41
1:Nj:58:ASN:HA	1:Nj:80:ILE:HD13	2.02	0.41
1:Op:12:ILE:HG23	1:Op:75:LEU:CD1	2.50	0.41
1:Fq:18:VAL:N	1:Fq:19:PRO:CD	2.84	0.41
1:Db:72:GLY:HA3	1:E3:77:ALA:HB2	2.01	0.41
1:DJ:9:LEU:HB3	1:DJ:81:ILE:CG2	2.50	0.41
3:X3:623:ALA:H	3:X3:648:GLN:NE2	2.18	0.41
1:Lm:35:LEU:HA	1:Lm:50:VAL:HG12	2.02	0.41
1:DA:58:ASN:HB3	3:X9:643:TYR:HE1	1.84	0.41
1:EB:9:LEU:HD11	1:EB:49:LEU:HD23	2.01	0.41
1:FC:12:ILE:HG23	1:FC:75:LEU:CD1	2.50	0.41
1:GA:62:ARG:HG2	3:YE:785:VAL:HG21	2.01	0.41
1:GD:18:VAL:N	1:GD:19:PRO:CD	2.83	0.41
1:KD:58:ASN:OD1	3:YC:802:VAL:HG13	2.20	0.41
1:NA:79:HIS:HA	3:YE:714:THR:O	2.20	0.41
2:PB:65:LYS:HB3	2:PB:65:LYS:HE2	1.81	0.41
2:PC:37:VAL:CG2	2:PD:3:ILE:HD11	2.51	0.41
2:PE:39:VAL:HG21	2:PE:67:TYR:HE1	1.85	0.41
3:XC:647:GLN:H	3:XC:647:GLN:HG3	1.52	0.41
1:B1:79:HIS:HA	3:Y5:725:THR:O	2.20	0.41
1:C4:73:ASP:OD2	1:H3:45:TYR:OH	2.24	0.41
1:D5:35:LEU:HD23	1:E9:91:ILE:CG2	2.50	0.41
1:F3:18:VAL:N	1:F3:19:PRO:CD	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K2:14:THR:HB	1:K2:19:PRO:HB2	2.03	0.41
1:N2:58:ASN:HA	1:N2:80:ILE:HD13	2.02	0.41
1:N4:58:ASN:HA	1:N4:80:ILE:HD13	2.02	0.41
2:P3:14:ASN:O	2:P4:42:ILE:HD12	2.20	0.41
1:B8:91:ILE:HD13	1:I7:35:LEU:HD21	2.01	0.41
1:E7:41:VAL:HG13	1:Dv:40:PHE:HD1	1.86	0.41
1:F6:12:ILE:HD12	1:F6:27:MET:SD	2.61	0.41
1:F8:12:ILE:HD12	1:F8:27:MET:SD	2.61	0.41
1:J7:82:ALA:HB3	1:Lw:30:ALA:O	2.20	0.41
1:K0:14:THR:HB	1:K0:19:PRO:HB2	2.03	0.41
1:N0:58:ASN:HA	1:N0:80:ILE:HD13	2.02	0.41
2:P0:65:LYS:HE2	2:P0:65:LYS:HB3	1.86	0.41
3:X6:627:VAL:HG21	1:JQ:62:ARG:CG	2.38	0.41
1:BT:61:VAL:HG12	3:YS:724:ILE:CD1	2.50	0.41
1:FS:18:VAL:N	1:FS:19:PRO:CD	2.84	0.41
1:HP:57:VAL:HG12	1:HP:80:ILE:HG23	2.01	0.41
1:KQ:14:THR:HB	1:KQ:19:PRO:HB2	2.03	0.41
1:NP:58:ASN:HA	1:NP:80:ILE:HD13	2.02	0.41
1:OT:12:ILE:HG23	1:OT:75:LEU:CD1	2.50	0.41
3:XP:691:ILE:HD12	3:XP:696:ARG:HH22	1.85	0.41
3:XQ:621:VAL:HG11	3:XQ:643:TYR:OH	2.19	0.41
1:CH:73:ASP:OD2	1:HG:45:TYR:OH	2.24	0.41
1:CI:79:HIS:HD2	3:YG:862:THR:OG1	2.02	0.41
1:EH:83:ARG:NH2	1:NI:32:GLU:CD	2.77	0.41
1:FH:18:VAL:N	1:FH:19:PRO:CD	2.84	0.41
1:FI:12:ILE:HG23	1:FI:75:LEU:CD1	2.50	0.41
1:FJ:12:ILE:HG23	1:FJ:75:LEU:CD1	2.50	0.41
1:KJ:35:LEU:HD11	1:KJ:48:VAL:CG1	2.50	0.41
1:BF:14:THR:HB	1:BF:19:PRO:HB2	2.02	0.41
1:EM:87:GLU:OE1	1:D6:28:THR:HG23	2.21	0.41
1:FO:12:ILE:HG23	1:FO:75:LEU:CD1	2.50	0.41
1:GF:11:MET:CB	1:HF:18:VAL:HG22	2.51	0.41
1:HM:57:VAL:HG12	1:HM:80:ILE:HG23	2.01	0.41
1:HM:80:ILE:CD1	3:YF:848:ILE:CG2	2.96	0.41
1:KM:14:THR:HB	1:KM:19:PRO:HB2	2.03	0.41
1:OF:77:ALA:HB2	1:JF:72:GLY:CA	2.50	0.41
1:OM:45:TYR:CE2	3:XM:695:ALA:HB2	2.55	0.41
3:YL:705:ASN:HD22	1:EL:82:ALA:H	1.59	0.41
1:Bi:61:VAL:HG12	1:Bi:61:VAL:O	2.20	0.41
1:Ee:9:LEU:HD11	1:Ee:49:LEU:HD23	2.01	0.41
1:Ge:62:ARG:HG2	3:Yi:785:VAL:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Jh:72:GLY:CA	1:Oh:77:ALA:HB2	2.49	0.41
1:Ki:35:LEU:HD11	1:Ki:48:VAL:CG1	2.50	0.41
1:Oh:12:ILE:HG23	1:Oh:75:LEU:CD1	2.50	0.41
2:Pe:42:ILE:HD12	3:Yh:851:SER:HB3	2.02	0.41
1:EV:9:LEU:HD11	1:EV:49:LEU:HD23	2.01	0.41
1:FZ:12:ILE:HG23	1:FZ:75:LEU:CD1	2.50	0.41
1:OY:12:ILE:HG23	1:OY:75:LEU:CD1	2.50	0.41
2:PV:14:ASN:O	2:PW:42:ILE:HD12	2.20	0.41
2:PV:59:ARG:CZ	2:PW:57:ALA:HA	2.50	0.41
1:Bc:14:THR:HB	1:Bc:19:PRO:HB2	2.03	0.41
1:CU:73:ASP:OD2	1:Hd:45:TYR:OH	2.24	0.41
1:EU:85:HIS:CG	1:DH:28:THR:HG22	2.54	0.41
1:FU:12:ILE:HD12	1:FU:27:MET:SD	2.61	0.41
1:Fa:18:VAL:N	1:Fa:19:PRO:CD	2.84	0.41
1:Gd:18:VAL:N	1:Gd:19:PRO:CD	2.83	0.41
1:Kb:58:ASN:OD1	3:Ya:802:VAL:HG13	2.20	0.41
1:Kd:58:ASN:OD1	3:Yc:802:VAL:HG13	2.20	0.41
1:Bx:14:THR:HB	1:Bx:19:PRO:HB2	2.02	0.41
1:Et:85:HIS:CD2	1:Dr:28:THR:HG22	2.55	0.41
1:Eu:83:ARG:NH2	1:Nv:32:GLU:CD	2.77	0.41
1:Jx:7:ILE:HD11	1:Ll:32:GLU:HB2	2.01	0.41
1:Ku:35:LEU:HD11	1:Ku:48:VAL:CG1	2.50	0.41
1:Nx:79:HIS:HA	3:Yw:714:THR:O	2.21	0.41
1:Bn:11:MET:HB3	1:Im:18:VAL:CG2	2.46	0.41
1:Ck:25:ASP:HA	1:Ho:88:VAL:CG2	2.48	0.41
1:Cn:29:LYS:HE2	2:Pm:45:ILE:HG22	2.01	0.41
1:Fn:12:ILE:HD12	1:Fn:27:MET:SD	2.61	0.41
1:Gl:28:THR:O	1:Kl:83:ARG:NH2	2.50	0.41
1:Hl:62:ARG:HG3	3:Yo:848:ILE:CD1	2.26	0.41
1:Nn:58:ASN:HA	1:Nn:80:ILE:HD13	2.02	0.41
1:No:58:ASN:HA	1:No:80:ILE:HD13	2.02	0.41
2:Pk:42:ILE:HD12	3:Yn:851:SER:HB3	2.02	0.41
2:Pm:14:ASN:O	2:Pn:42:ILE:HD12	2.20	0.41
2:Pm:68:PRO:HA	2:Pn:57:ALA:HB1	2.01	0.41
1:Br:62:ARG:HB3	3:Yq:720:ALA:HB3	2.02	0.41
1:Fj:12:ILE:HD12	1:Fj:27:MET:SD	2.61	0.41
1:Fr:18:VAL:N	1:Fr:19:PRO:CD	2.84	0.41
1:Gj:57:VAL:O	1:Gj:61:VAL:HG23	2.21	0.41
1:Kq:14:THR:HB	1:Kq:19:PRO:HB2	2.02	0.41
1:Kr:35:LEU:HD12	1:Kr:35:LEU:HA	1.97	0.41
1:Nj:43:GLY:HA2	3:Xj:696:ARG:HH22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pp:42:ILE:HD12	3:Ys:851:SER:HB3	2.02	0.41
1:FL:18:VAL:N	1:FL:19:PRO:CD	2.84	0.41
1:EL:15:ARG:HD2	1:EL:73:ASP:HB2	2.01	0.41
3:Xa:724:ILE:H	3:Xa:724:ILE:HG13	1.63	0.41
1:Lm:17:LEU:O	1:Lm:21:ILE:HG13	2.20	0.41
1:BE:14:THR:HB	1:BE:19:PRO:HB2	2.02	0.41
1:CC:79:HIS:HD2	3:YA:862:THR:OG1	2.02	0.41
1:EB:83:ARG:HH21	1:NC:32:GLU:CD	2.28	0.41
1:ED:9:LEU:HD11	1:ED:49:LEU:HD23	2.01	0.41
1:ED:13:GLU:OE2	1:Dg:17:LEU:N	2.41	0.41
1:FD:12:ILE:HG23	1:FD:75:LEU:CD1	2.50	0.41
1:FE:18:VAL:N	1:FE:19:PRO:CD	2.84	0.41
1:HE:57:VAL:HG12	1:HE:80:ILE:HG23	2.01	0.41
3:XA:691:ILE:HD12	3:XA:696:ARG:HH22	1.85	0.41
1:B1:14:THR:HB	1:B1:19:PRO:HB2	2.03	0.41
1:C5:62:ARG:HD2	2:P4:21:HIS:CE1	2.56	0.41
1:F4:18:VAL:HG22	1:D4:11:MET:HB3	2.00	0.41
1:F4:18:VAL:N	1:F4:19:PRO:CD	2.84	0.41
1:K4:35:LEU:HD11	1:K4:48:VAL:CG1	2.50	0.41
1:N3:58:ASN:HA	1:N3:80:ILE:HD13	2.02	0.41
2:P5:39:VAL:HG21	2:P5:67:TYR:HE1	1.85	0.41
1:E7:83:ARG:NH2	1:N8:32:GLU:CD	2.77	0.41
1:E8:9:LEU:HD11	1:E8:49:LEU:HD23	2.01	0.41
1:F7:12:ILE:HG23	1:F7:75:LEU:CD1	2.50	0.41
1:F7:12:ILE:HD12	1:F7:27:MET:SD	2.61	0.41
1:H9:57:VAL:HG12	1:H9:80:ILE:HG23	2.01	0.41
1:K6:14:THR:HB	1:K6:19:PRO:HB2	2.03	0.41
1:K8:14:THR:HB	1:K8:19:PRO:HB2	2.03	0.41
1:K8:35:LEU:HD11	1:K8:48:VAL:CG1	2.50	0.41
1:O8:12:ILE:HG23	1:O8:75:LEU:CD1	2.50	0.41
1:ER:92:LEU:HD23	1:D4:21:ILE:HD13	1.97	0.41
1:FR:12:ILE:HD12	1:FR:27:MET:SD	2.61	0.41
1:KR:14:THR:HB	1:KR:19:PRO:HB2	2.03	0.41
1:KT:14:THR:HB	1:KT:19:PRO:HB2	2.03	0.41
1:LS:83:ARG:CZ	1:D4:32:GLU:HA	2.50	0.41
1:NP:79:HIS:HA	3:YT:714:THR:O	2.20	0.41
1:OQ:12:ILE:HG23	1:OQ:75:LEU:CD1	2.50	0.41
1:AJ:22:GLU:OE2	3:YH:865:GLY:N	2.25	0.41
1:BH:14:THR:HB	1:BH:19:PRO:HB2	2.02	0.41
1:CI:18:VAL:HG22	1:HH:11:MET:CB	2.49	0.41
1:CK:62:ARG:HD2	2:PJ:21:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EH:9:LEU:HD11	1:EH:49:LEU:HD23	2.01	0.41
1:GJ:18:VAL:N	1:GJ:19:PRO:CD	2.83	0.41
1:HK:57:VAL:HG12	1:HK:80:ILE:HG23	2.01	0.41
1:KJ:58:ASN:OD1	3:YI:802:VAL:HG13	2.20	0.41
2:PI:68:PRO:HA	2:PJ:57:ALA:HB1	2.01	0.41
2:PK:39:VAL:HG21	2:PK:67:TYR:HE1	1.85	0.41
1:FM:18:VAL:N	1:FM:19:PRO:CD	2.84	0.41
1:GF:84:VAL:HG12	1:GF:88:VAL:HB	2.02	0.41
1:JM:62:ARG:NH2	3:X7:624:SER:OG	2.54	0.41
1:KF:14:THR:HB	1:KF:19:PRO:HB2	2.03	0.41
1:KF:35:LEU:HD11	1:KF:48:VAL:CG1	2.50	0.41
1:NM:58:ASN:HA	1:NM:80:ILE:HD13	2.02	0.41
1:Ch:29:LYS:HE2	2:Pg:45:ILE:HG22	2.01	0.41
1:Ci:62:ARG:HB3	2:Ph:21:HIS:HB3	2.02	0.41
1:Ff:18:VAL:N	1:Ff:19:PRO:CD	2.84	0.41
1:Ff:27:MET:SD	1:Ff:50:VAL:HG21	2.59	0.41
1:Fg:12:ILE:HG23	1:Fg:75:LEU:CD1	2.50	0.41
1:Gi:18:VAL:N	1:Gi:19:PRO:CD	2.83	0.41
1:Ke:62:ARG:HH22	3:Yi:799:ASP:H	1.69	0.41
2:Pg:55:SER:HA	2:Pg:70:ASP:HA	2.02	0.41
3:Xi:622:ASP:O	1:Jp:62:ARG:NH1	2.51	0.41
1:BW:14:THR:HB	1:BW:19:PRO:HB2	2.02	0.41
1:DX:21:ILE:HG21	1:En:92:LEU:HD21	2.02	0.41
1:EW:83:ARG:HH21	1:NX:32:GLU:CD	2.28	0.41
1:EY:90:ASN:HB3	1:DI:97:GLN:O	2.21	0.41
1:GW:18:VAL:HB	1:GW:19:PRO:HD3	2.02	0.41
1:JW:62:ARG:HH21	3:Xp:624:SER:HB2	1.78	0.41
1:KW:58:ASN:OD1	3:YV:802:VAL:HG13	2.20	0.41
1:KY:35:LEU:HD11	1:KY:48:VAL:CG1	2.50	0.41
1:NW:58:ASN:HA	1:NW:80:ILE:HD13	2.02	0.41
1:Bc:61:VAL:HG12	1:Bc:61:VAL:O	2.20	0.41
1:CU:62:ARG:HD2	2:Pd:21:HIS:CE1	2.56	0.41
1:Fb:12:ILE:HD12	1:Fb:27:MET:SD	2.61	0.41
1:GU:77:ALA:HB2	1:HU:72:GLY:CA	2.50	0.41
1:GU:96:PRO:O	1:GU:97:GLN:C	2.64	0.41
2:Pa:42:ILE:HD12	3:Yd:851:SER:HB3	2.02	0.41
1:Ex:9:LEU:HD11	1:Ex:49:LEU:HD23	2.01	0.41
1:Ex:91:ILE:CG2	1:Dk:35:LEU:HD23	2.49	0.41
1:Gt:79:HIS:ND1	3:Yx:786:SER:HB2	2.36	0.41
1:Hu:80:ILE:HD12	3:Yx:848:ILE:HG21	1.99	0.41
1:Kw:58:ASN:OD1	3:Yv:802:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Pt:39:VAL:HG21	2:Pt:67:TYR:HE1	1.85	0.41
2:Px:39:VAL:HG21	2:Px:67:TYR:CE1	2.56	0.41
3:Xx:637:LEU:HA	3:Xx:649:THR:CG2	2.50	0.41
1:Fm:12:ILE:HD12	1:Fm:27:MET:SD	2.61	0.41
1:Hk:22:GLU:HG2	1:Hk:71:VAL:HG21	2.03	0.41
1:On:12:ILE:HG23	1:On:75:LEU:CD1	2.50	0.41
1:Bj:61:VAL:HG12	1:Bj:61:VAL:O	2.20	0.41
1:Bq:61:VAL:O	1:Bq:61:VAL:HG12	2.20	0.41
1:Cr:18:VAL:HG22	1:Hq:11:MET:CB	2.49	0.41
1:Dr:47:THR:CG2	1:Fr:17:LEU:HD23	2.48	0.41
1:Es:9:LEU:HD11	1:Es:49:LEU:HD23	2.01	0.41
1:Fj:71:VAL:HG22	3:XX:617:SER:OG	2.20	0.41
1:Gq:18:VAL:N	1:Gq:19:PRO:CD	2.83	0.41
1:Kp:35:LEU:HD12	1:Kp:35:LEU:HA	1.97	0.41
1:Op:15:ARG:HD3	3:Xp:700:ASN:C	2.45	0.41
3:X4:618:GLY:O	3:X4:619:THR:C	2.63	0.41
1:Dn:9:LEU:HD11	1:Dn:49:LEU:HB3	2.03	0.41
1:Fh:12:ILE:HD12	1:Fh:27:MET:SD	2.61	0.41
1:FY:18:VAL:N	1:FY:19:PRO:CD	2.84	0.41
1:Dh:62:ARG:HA	1:Dh:62:ARG:HD2	1.88	0.41
1:OI:12:ILE:HG23	1:OI:75:LEU:CD1	2.50	0.41
1:BE:61:VAL:HG12	3:YD:724:ILE:CD1	2.50	0.41
1:DB:79:HIS:HD2	3:Xv:618:GLY:N	2.06	0.41
1:GB:28:THR:O	1:KB:83:ARG:NH2	2.51	0.41
1:JD:7:ILE:HG12	1:Lh:32:GLU:OE1	2.21	0.41
1:KD:35:LEU:HD11	1:KD:48:VAL:CG1	2.50	0.41
1:KE:14:THR:HB	1:KE:19:PRO:HB2	2.03	0.41
1:NE:79:HIS:HA	3:YD:714:THR:O	2.21	0.41
1:OB:12:ILE:HG23	1:OB:75:LEU:CD1	2.50	0.41
1:OC:12:ILE:HG23	1:OC:75:LEU:CD1	2.50	0.41
2:PA:14:ASN:O	2:PB:42:ILE:HD12	2.20	0.41
3:XB:643:TYR:CE1	1:D8:55:GLY:HA2	2.55	0.41
3:XE:637:LEU:HA	3:XE:649:THR:CG2	2.50	0.41
1:B3:61:VAL:O	1:B3:61:VAL:HG12	2.20	0.41
1:E4:91:ILE:HG21	1:DR:35:LEU:HD23	2.01	0.41
1:F2:12:ILE:HD12	1:F2:27:MET:SD	2.61	0.41
1:H4:57:VAL:HG12	1:H4:80:ILE:HG23	2.01	0.41
1:K3:35:LEU:HD12	1:K3:35:LEU:HA	1.97	0.41
1:K4:14:THR:HB	1:K4:19:PRO:HB2	2.03	0.41
1:K5:14:THR:HB	1:K5:19:PRO:HB2	2.03	0.41
2:P3:39:VAL:HG23	2:P4:1:MET:HE1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P4:10:LEU:HD21	2:P5:77:ILE:HG12	2.02	0.41
1:B6:66:ASP:OD1	3:Y0:720:ALA:HB2	2.21	0.41
1:B9:61:VAL:O	1:B9:61:VAL:HG12	2.20	0.41
1:D0:80:ILE:HD11	3:XR:616:ILE:CG2	2.39	0.41
1:F6:18:VAL:N	1:F6:19:PRO:CD	2.84	0.41
1:G0:96:PRO:O	1:G0:97:GLN:C	2.64	0.41
1:G6:79:HIS:ND1	3:Y0:786:SER:HB2	2.36	0.41
1:H0:57:VAL:HG12	1:H0:80:ILE:HG23	2.01	0.41
1:M6:72:GLY:HA2	1:J6:77:ALA:CB	2.31	0.41
1:O0:12:ILE:HG23	1:O0:75:LEU:CD1	2.50	0.41
1:O7:45:TYR:CE2	3:X7:695:ALA:HB2	2.55	0.41
3:Y6:713:ILE:H	3:Y6:713:ILE:HG13	1.53	0.41
1:BQ:61:VAL:HG12	3:YP:724:ILE:HD13	2.01	0.41
1:FR:18:VAL:N	1:FR:19:PRO:CD	2.84	0.41
1:FS:12:ILE:HG23	1:FS:75:LEU:CD1	2.50	0.41
1:FS:12:ILE:HD12	1:FS:27:MET:SD	2.61	0.41
1:GP:79:HIS:ND1	3:YT:786:SER:HB2	2.36	0.41
1:KT:35:LEU:HD11	1:KT:48:VAL:CG1	2.50	0.41
1:BG:11:MET:HB3	1:IK:18:VAL:CG2	2.48	0.41
1:BI:61:VAL:O	1:BI:61:VAL:HG12	2.20	0.41
1:EH:83:ARG:HH21	1:NI:32:GLU:CD	2.27	0.41
1:EJ:9:LEU:HD11	1:EJ:49:LEU:HD23	2.01	0.41
1:FK:18:VAL:N	1:FK:19:PRO:CD	2.84	0.41
1:GH:28:THR:O	1:KH:83:ARG:NH2	2.51	0.41
1:JH:62:ARG:CD	3:Xa:622:ASP:O	2.68	0.41
1:LJ:79:HIS:HA	3:XJ:639:SER:O	2.20	0.41
3:XK:724:ILE:H	3:XK:724:ILE:HG13	1.42	0.41
3:YI:734:ALA:O	3:YI:735:ARG:C	2.64	0.41
1:FN:12:ILE:HG23	1:FN:75:LEU:CD1	2.50	0.41
1:GL:79:HIS:ND1	3:YF:786:SER:HB2	2.36	0.41
1:LL:29:LYS:O	1:Ml:29:LYS:NZ	2.41	0.41
1:NF:58:ASN:HA	1:NF:80:ILE:HD13	2.02	0.41
2:PL:14:ASN:O	2:PM:42:ILE:HD12	2.21	0.41
2:PN:14:ASN:O	2:PO:42:ILE:HD12	2.20	0.41
3:XF:727:THR:HA	3:XF:728:PRO:HD3	1.89	0.41
1:Ag:22:GLU:OE2	3:Ye:865:GLY:N	2.25	0.41
1:Bi:61:VAL:HG12	3:Yh:724:ILE:CD1	2.50	0.41
1:Ee:85:HIS:CD2	1:Dc:28:THR:HG22	2.55	0.41
1:Ei:91:ILE:CG2	1:DV:35:LEU:CD2	2.97	0.41
1:Fg:12:ILE:HD12	1:Fg:27:MET:SD	2.61	0.41
1:Gf:28:THR:O	1:Kf:83:ARG:NH2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:He:22:GLU:HG2	1:He:71:VAL:HG21	2.03	0.41
2:Pe:39:VAL:HG23	2:Pf:1:MET:HE1	2.01	0.41
1:BW:61:VAL:O	1:BW:61:VAL:HG12	2.20	0.41
1:BY:61:VAL:HG12	1:BY:61:VAL:O	2.20	0.41
1:DW:80:ILE:CD1	3:Xp:616:ILE:HG21	2.50	0.41
1:FV:12:ILE:HD12	1:FV:27:MET:SD	2.61	0.41
1:FV:12:ILE:HG23	1:FV:75:LEU:CD1	2.50	0.41
1:GY:18:VAL:N	1:GY:19:PRO:CD	2.83	0.41
1:KY:58:ASN:OD1	3:YX:802:VAL:HG13	2.20	0.41
1:Ea:9:LEU:HD11	1:Ea:49:LEU:HD23	2.01	0.41
1:FU:12:ILE:HG23	1:FU:75:LEU:CD1	2.50	0.41
1:Fb:18:VAL:N	1:Fb:19:PRO:CD	2.84	0.41
1:Fc:12:ILE:HD12	1:Fc:27:MET:SD	2.61	0.41
1:Ha:57:VAL:HG12	1:Ha:80:ILE:HG23	2.01	0.41
1:KU:35:LEU:HD11	1:KU:48:VAL:CG1	2.50	0.41
1:La:79:HIS:HA	3:Xa:639:SER:O	2.19	0.41
1:Nd:79:HIS:HA	3:Yc:714:THR:O	2.20	0.41
2:Pa:14:ASN:O	2:Pb:42:ILE:HD12	2.21	0.41
2:Pd:65:LYS:HE2	2:Pd:65:LYS:HB3	1.70	0.41
1:Bt:61:VAL:HG12	1:Bt:61:VAL:O	2.21	0.41
1:Fu:12:ILE:HG23	1:Fu:75:LEU:CD1	2.50	0.41
1:Fu:18:VAL:N	1:Fu:19:PRO:CD	2.84	0.41
1:Fx:12:ILE:HD12	1:Fx:27:MET:SD	2.61	0.41
1:Gv:79:HIS:ND1	3:Yu:786:SER:HB2	2.35	0.41
1:Hv:57:VAL:HG12	1:Hv:80:ILE:HG23	2.01	0.41
1:Kx:80:ILE:CD1	3:Yw:806:ILE:HG21	2.50	0.41
1:Nt:58:ASN:HA	1:Nt:80:ILE:HD13	2.02	0.41
1:Bo:61:VAL:O	1:Bo:61:VAL:HG12	2.20	0.41
1:Ek:9:LEU:HD11	1:Ek:49:LEU:HD23	2.01	0.41
1:Fn:18:VAL:N	1:Fn:19:PRO:CD	2.84	0.41
1:Gk:62:ARG:HG2	3:Yo:785:VAL:HG21	2.01	0.41
1:Jn:62:ARG:CZ	3:XY:620:SER:CB	2.99	0.41
1:Kk:14:THR:HB	1:Kk:19:PRO:HB2	2.03	0.41
1:Kk:62:ARG:HH22	3:Yo:799:ASP:H	1.69	0.41
2:Pk:39:VAL:HG23	2:Pl:1:MET:HE1	2.01	0.41
2:Pk:59:ARG:CZ	2:Pl:57:ALA:HA	2.50	0.41
2:Pm:39:VAL:HG21	2:Pm:67:TYR:HE1	1.85	0.41
3:Ym:734:ALA:O	3:Ym:735:ARG:C	2.64	0.41
1:Bp:66:ASP:OD1	3:Yj:720:ALA:HB2	2.21	0.41
1:Cp:25:ASP:HA	1:Hj:88:VAL:CG2	2.49	0.41
1:Kj:62:ARG:HA	3:Ys:806:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Kq:35:LEU:HD11	1:Kq:48:VAL:CG1	2.50	0.41
1:Op:92:LEU:HD23	1:Op:92:LEU:HA	1.94	0.41
1:Oq:12:ILE:HG23	1:Oq:75:LEU:CD1	2.50	0.41
1:DS:12:ILE:HA	1:DS:77:ALA:O	2.21	0.41
1:DS:55:GLY:O	3:Xb:643:TYR:CE1	2.73	0.41
1:Dw:6:GLY:N	1:Dw:34:ARG:HH12	2.17	0.41
1:Jv:35:LEU:HA	1:Jv:50:VAL:HG12	2.02	0.41
1:LN:62:ARG:HE	3:XN:644:VAL:HG13	1.83	0.41
1:NL:58:ASN:HA	1:NL:80:ILE:HD13	2.02	0.41
1:OI:92:LEU:HD23	1:OI:92:LEU:HA	1.94	0.41
1:Fl:18:VAL:N	1:Fl:19:PRO:CD	2.84	0.41
1:Km:14:THR:HB	1:Km:19:PRO:HB2	2.03	0.41
1:EF:18:VAL:HB	1:EF:19:PRO:HD3	2.02	0.41
1:BB:61:VAL:O	1:BB:61:VAL:HG12	2.20	0.41
1:BB:61:VAL:HG12	3:YA:724:ILE:HD13	2.01	0.41
1:BC:61:VAL:O	1:BC:61:VAL:HG12	2.20	0.41
1:CC:18:VAL:HG13	1:HB:11:MET:HE3	2.03	0.41
1:EA:92:LEU:CD2	1:D8:21:ILE:HD13	2.51	0.41
1:FC:18:VAL:N	1:FC:19:PRO:CD	2.84	0.41
1:HC:22:GLU:HG2	1:HC:71:VAL:HG21	2.03	0.41
1:KA:14:THR:HB	1:KA:19:PRO:HB2	2.03	0.41
2:PB:14:ASN:ND2	2:PC:42:ILE:HG21	2.36	0.41
1:F4:17:LEU:CD2	1:D4:39:GLN:NE2	2.84	0.41
1:F5:12:ILE:HG23	1:F5:75:LEU:CD1	2.50	0.41
1:F5:18:VAL:N	1:F5:19:PRO:CD	2.84	0.41
1:H2:80:ILE:CD1	3:Y5:848:ILE:CG2	2.96	0.41
1:K1:14:THR:HB	1:K1:19:PRO:HB2	2.03	0.41
1:K2:35:LEU:HD11	1:K2:48:VAL:CG1	2.50	0.41
1:B7:41:VAL:HG13	1:I6:40:PHE:HD1	1.84	0.41
1:G0:11:MET:CB	1:H0:18:VAL:HG22	2.51	0.41
1:G0:88:VAL:O	1:G0:92:LEU:HG	2.21	0.41
1:H8:22:GLU:HG2	1:H8:71:VAL:HG21	2.03	0.41
1:J0:72:GLY:CA	1:O0:77:ALA:HB2	2.50	0.41
1:K9:35:LEU:HD11	1:K9:48:VAL:CG1	2.50	0.41
1:K9:58:ASN:OD1	3:Y8:802:VAL:HG13	2.20	0.41
1:O6:15:ARG:HD3	3:X6:700:ASN:C	2.45	0.41
2:P6:14:ASN:O	2:P7:42:ILE:HD12	2.21	0.41
3:Y8:775:CYS:HA	3:Y8:793:CYS:HA	2.03	0.41
1:GQ:11:MET:HE3	1:GQ:79:HIS:HB3	2.03	0.41
1:HP:80:ILE:CD1	3:YS:848:ILE:CG2	2.99	0.41
1:HQ:57:VAL:HG12	1:HQ:80:ILE:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HT:22:GLU:HG2	1:HT:71:VAL:HG21	2.03	0.41
1:JQ:72:GLY:CA	1:OQ:77:ALA:HB2	2.50	0.41
2:PP:42:ILE:HD12	3:YS:851:SER:HB3	2.02	0.41
3:YQ:708:ALA:HA	3:YQ:709:PRO:HD3	1.88	0.41
3:YT:775:CYS:HA	3:YT:793:CYS:HA	2.03	0.41
1:BK:61:VAL:O	1:BK:61:VAL:HG12	2.20	0.41
1:CI:18:VAL:HG13	1:HH:11:MET:HE3	2.03	0.41
1:EJ:85:HIS:CD2	1:Dm:28:THR:HG22	2.55	0.41
1:HI:22:GLU:HG2	1:HI:71:VAL:HG21	2.03	0.41
1:KG:14:THR:HB	1:KG:19:PRO:HB2	2.03	0.41
1:KK:14:THR:HB	1:KK:19:PRO:HB2	2.03	0.41
2:PG:14:ASN:O	2:PH:42:ILE:HD12	2.20	0.41
2:PI:14:ASN:O	2:PJ:42:ILE:HD12	2.20	0.41
3:XG:727:THR:HA	3:XG:728:PRO:HD3	1.85	0.41
1:EM:83:ARG:HH21	1:NN:32:GLU:CD	2.28	0.41
1:KM:58:ASN:OD1	3:YL:802:VAL:HG13	2.20	0.41
1:KN:14:THR:HB	1:KN:19:PRO:HB2	2.03	0.41
1:KO:14:THR:HB	1:KO:19:PRO:HB2	2.03	0.41
2:PL:77:ILE:HG12	2:PF:10:LEU:HD21	2.03	0.41
2:PN:39:VAL:HG23	2:PO:1:MET:HE1	2.01	0.41
2:PO:10:LEU:HD21	2:PF:77:ILE:HG12	2.02	0.41
1:Ce:25:ASP:HA	1:Hi:88:VAL:CG2	2.48	0.41
1:Fe:18:VAL:N	1:Fe:19:PRO:CD	2.84	0.41
1:Fi:12:ILE:HG23	1:Fi:75:LEU:CD1	2.50	0.41
1:Ke:14:THR:HB	1:Ke:19:PRO:HB2	2.03	0.41
1:Kf:14:THR:HB	1:Kf:19:PRO:HB2	2.03	0.41
1:Ki:35:LEU:HD12	1:Ki:35:LEU:HA	1.97	0.41
2:Pe:39:VAL:HG21	2:Pe:67:TYR:CE1	2.56	0.41
2:Pi:39:VAL:HG21	2:Pi:67:TYR:CE1	2.56	0.41
3:Yg:775:CYS:HA	3:Yg:793:CYS:HA	2.03	0.41
1:BV:14:THR:HB	1:BV:19:PRO:HB2	2.02	0.41
1:BX:61:VAL:O	1:BX:61:VAL:HG12	2.20	0.41
1:FW:12:ILE:HD12	1:FW:27:MET:SD	2.61	0.41
1:FW:85:HIS:HB3	1:FW:88:VAL:HG23	2.01	0.41
1:FX:12:ILE:HD12	1:FX:27:MET:SD	2.61	0.41
1:GW:11:MET:HE3	1:GW:79:HIS:HB3	2.03	0.41
1:KV:35:LEU:HD11	1:KV:48:VAL:CG1	2.50	0.41
1:KY:14:THR:HB	1:KY:19:PRO:HB2	2.03	0.41
1:FU:18:VAL:N	1:FU:19:PRO:CD	2.84	0.41
1:Fa:12:ILE:HD12	1:Fa:27:MET:SD	2.61	0.41
1:Fb:18:VAL:HB	1:Db:13:GLU:CD	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:GU:88:VAL:O	1:GU:92:LEU:HG	2.21	0.41
1:Jb:62:ARG:HG2	3:X4:627:VAL:HG21	2.02	0.41
1:Kb:14:THR:HB	1:Kb:19:PRO:HB2	2.03	0.41
2:PU:42:ILE:HD12	3:Yc:851:SER:HB3	2.03	0.41
1:Bx:61:VAL:HG12	1:Bx:61:VAL:O	2.20	0.41
1:Ft:12:ILE:HD12	1:Ft:27:MET:SD	2.61	0.41
1:Fu:12:ILE:HD12	1:Fu:27:MET:SD	2.61	0.41
1:Fw:18:VAL:N	1:Fw:19:PRO:CD	2.84	0.41
1:Kw:35:LEU:HD11	1:Kw:48:VAL:CG1	2.50	0.41
2:Pt:14:ASN:O	2:Pu:42:ILE:HD12	2.20	0.41
1:Bm:47:THR:HG21	1:Il:18:VAL:CG2	2.46	0.41
1:Bn:61:VAL:HG12	1:Bn:61:VAL:O	2.20	0.41
1:Do:35:LEU:HD23	1:Es:91:ILE:CG2	2.50	0.41
1:Fk:18:VAL:N	1:Fk:19:PRO:CD	2.84	0.41
1:Fm:12:ILE:HG23	1:Fm:75:LEU:CD1	2.50	0.41
1:Gl:18:VAL:HB	1:Gl:19:PRO:HD3	2.02	0.41
1:Ln:79:HIS:HA	3:Xn:639:SER:O	2.20	0.41
2:Po:39:VAL:HG21	2:Po:67:TYR:CE1	2.56	0.41
3:Ym:775:CYS:HA	3:Ym:793:CYS:HA	2.03	0.41
1:Bq:14:THR:HB	1:Bq:19:PRO:HB2	2.02	0.41
1:Bs:14:THR:HB	1:Bs:19:PRO:HB2	2.02	0.41
1:Bs:61:VAL:O	1:Bs:61:VAL:HG12	2.20	0.41
1:Fp:12:ILE:HD12	1:Fp:27:MET:SD	2.61	0.41
1:Fs:12:ILE:HG23	1:Fs:75:LEU:CD1	2.50	0.41
1:Gj:88:VAL:O	1:Gj:91:ILE:HG12	2.21	0.41
1:Kp:35:LEU:HD11	1:Kp:48:VAL:CG1	2.50	0.41
1:Kp:62:ARG:HH22	3:Yj:799:ASP:H	1.69	0.41
1:Ks:35:LEU:HD11	1:Ks:48:VAL:CG1	2.50	0.41
3:Yj:775:CYS:HA	3:Yj:793:CYS:HA	2.03	0.41
3:X7:724:ILE:H	3:X7:724:ILE:HG13	1.52	0.41
1:EI:49:LEU:HD22	1:EI:93:PRO:HD2	2.03	0.41
3:Xc:691:ILE:H	3:Xc:691:ILE:HG13	1.54	0.41
1:Fh:18:VAL:N	1:Fh:19:PRO:CD	2.84	0.41
1:Fq:12:ILE:HD12	1:Fq:27:MET:SD	2.61	0.41
1:Db:41:VAL:HB	1:Db:45:TYR:HB2	2.02	0.41
3:Xa:691:ILE:H	3:Xa:691:ILE:HG13	1.42	0.41
1:Fl:27:MET:SD	1:Fl:50:VAL:HG21	2.59	0.41
1:DF:6:GLY:HA3	1:DF:34:ARG:HH12	1.85	0.41
1:BE:61:VAL:HG12	1:BE:61:VAL:O	2.20	0.41
1:CE:62:ARG:HB3	2:PD:21:HIS:HB3	2.02	0.41
1:DB:12:ILE:HG23	1:DB:75:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:18:VAL:N	1:FA:19:PRO:CD	2.84	0.41
1:KB:35:LEU:HD11	1:KB:48:VAL:CG1	2.50	0.41
1:LE:31:ALA:O	1:Jg:83:ARG:HD2	2.20	0.41
1:B1:61:VAL:O	1:B1:61:VAL:HG12	2.20	0.41
1:F2:18:VAL:N	1:F2:19:PRO:CD	2.84	0.41
1:F5:12:ILE:HD12	1:F5:27:MET:SD	2.61	0.41
1:H4:22:GLU:HG2	1:H4:71:VAL:HG21	2.03	0.41
1:K4:58:ASN:OD1	3:Y3:802:VAL:HG13	2.20	0.41
1:O3:12:ILE:HG23	1:O3:75:LEU:CD1	2.50	0.41
1:B0:66:ASP:OD2	3:Y9:719:LEU:HB3	2.21	0.41
1:C6:25:ASP:HA	1:H0:88:VAL:CG2	2.48	0.41
1:K7:58:ASN:OD1	3:Y6:802:VAL:HG13	2.20	0.41
1:O9:79:HIS:HA	3:X9:714:THR:O	2.21	0.41
2:P6:77:ILE:HG12	2:P0:10:LEU:HD21	2.03	0.41
2:P7:14:ASN:ND2	2:P8:42:ILE:HG21	2.36	0.41
2:P7:67:TYR:HA	2:P7:68:PRO:HD3	1.89	0.41
2:P0:42:ILE:HD12	3:Y8:851:SER:HB3	2.02	0.41
1:BQ:61:VAL:HG12	1:BQ:61:VAL:O	2.20	0.41
1:BR:91:ILE:HD11	1:IQ:21:ILE:HD13	1.99	0.41
1:BS:41:VAL:HG13	1:IR:40:PHE:HD1	1.84	0.41
1:DP:28:THR:CG2	1:EN:85:HIS:CE1	3.04	0.41
1:KP:35:LEU:HD11	1:KP:48:VAL:CG1	2.50	0.41
1:KP:62:ARG:HH22	3:YT:799:ASP:H	1.69	0.41
1:NT:58:ASN:HA	1:NT:80:ILE:HD13	2.02	0.41
1:NT:79:HIS:HA	3:YS:714:THR:O	2.21	0.41
3:YQ:734:ALA:O	3:YQ:735:ARG:C	2.64	0.41
1:FG:18:VAL:N	1:FG:19:PRO:CD	2.84	0.41
1:FI:18:VAL:N	1:FI:19:PRO:CD	2.84	0.41
1:HG:22:GLU:HG2	1:HG:71:VAL:HG21	2.03	0.41
1:KG:35:LEU:HD11	1:KG:48:VAL:CG1	2.50	0.41
1:KH:35:LEU:HD11	1:KH:48:VAL:CG1	2.50	0.41
1:LG:83:ARG:NH1	1:DO:28:THR:O	2.52	0.41
1:OH:12:ILE:HG23	1:OH:75:LEU:CD1	2.50	0.41
2:PH:14:ASN:ND2	2:PI:42:ILE:HG21	2.36	0.41
1:BL:61:VAL:HG12	1:BL:61:VAL:O	2.21	0.41
1:BM:61:VAL:O	1:BM:61:VAL:HG12	2.20	0.41
1:BO:61:VAL:O	1:BO:61:VAL:HG12	2.20	0.41
1:HO:22:GLU:HG2	1:HO:71:VAL:HG21	2.03	0.41
1:KN:35:LEU:HD11	1:KN:48:VAL:CG1	2.50	0.41
1:OL:12:ILE:HG23	1:OL:75:LEU:CD1	2.50	0.41
1:Bh:61:VAL:HG12	1:Bh:61:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Fg:18:VAL:N	1:Fg:19:PRO:CD	2.84	0.41
1:Gf:18:VAL:HB	1:Gf:19:PRO:HD3	2.02	0.41
3:Xf:643:TYR:HE1	1:Dc:58:ASN:HB3	1.83	0.41
1:BY:14:THR:HB	1:BY:19:PRO:HB2	2.03	0.41
1:CV:25:ASP:HA	1:HZ:88:VAL:CG2	2.48	0.41
1:CZ:62:ARG:HD2	2:PY:21:HIS:CE1	2.56	0.41
1:DZ:47:THR:CG2	1:FZ:17:LEU:HD23	2.48	0.41
1:FZ:12:ILE:HD12	1:FZ:27:MET:SD	2.61	0.41
1:GV:79:HIS:ND1	3:YZ:786:SER:HB2	2.36	0.41
1:KX:35:LEU:HD11	1:KX:48:VAL:CG1	2.50	0.41
1:OZ:12:ILE:HG23	1:OZ:75:LEU:CD1	2.50	0.41
2:PV:77:ILE:HG12	2:PZ:10:LEU:HD21	2.03	0.41
3:YW:775:CYS:HA	3:YW:793:CYS:HA	2.03	0.41
1:Ba:66:ASP:OD1	3:YU:720:ALA:HB2	2.21	0.41
1:Cc:18:VAL:HG13	1:Hb:11:MET:HE3	2.03	0.41
1:Fd:12:ILE:HD12	1:Fd:27:MET:SD	2.61	0.41
1:Fd:18:VAL:N	1:Fd:19:PRO:CD	2.84	0.41
1:Kb:35:LEU:HD11	1:Kb:48:VAL:CG1	2.50	0.41
1:Oa:15:ARG:HD3	3:Xa:700:ASN:C	2.45	0.41
1:Bv:14:THR:HB	1:Bv:19:PRO:HB2	2.02	0.41
1:Ev:9:LEU:HD11	1:Ev:49:LEU:HD23	2.01	0.41
1:Ft:18:VAL:N	1:Ft:19:PRO:CD	2.84	0.41
1:Fv:12:ILE:HD12	1:Fv:27:MET:SD	2.61	0.41
1:Fw:12:ILE:HD12	1:Fw:27:MET:SD	2.61	0.41
1:Fx:18:VAL:N	1:Fx:19:PRO:CD	2.84	0.41
1:Hw:22:GLU:HG2	1:Hw:71:VAL:HG21	2.03	0.41
1:Ku:62:ARG:HA	3:Yt:806:ILE:HD11	2.01	0.41
1:Kw:14:THR:HB	1:Kw:19:PRO:HB2	2.03	0.41
1:Kx:14:THR:HB	1:Kx:19:PRO:HB2	2.03	0.41
2:Pt:77:ILE:HG12	2:Px:10:LEU:HD21	2.03	0.41
1:Gl:11:MET:HE3	1:Gl:79:HIS:HB3	2.03	0.41
2:Pn:53:VAL:HB	2:Pn:74:ILE:HD13	2.03	0.41
3:Yk:775:CYS:HA	3:Yk:793:CYS:HA	2.03	0.41
1:Bj:14:THR:HB	1:Bj:19:PRO:HB2	2.03	0.41
1:Ep:13:GLU:OE2	1:Dh:17:LEU:N	2.46	0.41
1:Fr:12:ILE:HD12	1:Fr:27:MET:SD	2.61	0.41
1:Fs:18:VAL:N	1:Fs:19:PRO:CD	2.84	0.41
1:Gp:62:ARG:HG2	3:Yj:785:VAL:HG21	2.01	0.41
1:Hj:80:ILE:CD1	3:Yr:848:ILE:CG2	2.99	0.41
1:Kq:58:ASN:OD1	3:Yp:802:VAL:HG13	2.20	0.41
1:Ks:14:THR:HB	1:Ks:19:PRO:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Oq:45:TYR:CE2	3:Xq:695:ALA:HB2	2.55	0.41
1:Or:12:ILE:HG23	1:Or:75:LEU:CD1	2.50	0.41
2:Pr:14:ASN:O	2:Ps:42:ILE:HD12	2.21	0.41
2:Ps:65:LYS:HE2	2:Ps:65:LYS:HB3	1.70	0.41
1:FL:12:ILE:HG23	1:FL:75:LEU:CD1	2.50	0.41
1:FY:12:ILE:HG23	1:FY:75:LEU:CD1	2.50	0.41
1:Fq:12:ILE:HG23	1:Fq:75:LEU:CD1	2.50	0.41
1:Db:14:THR:HG22	1:Db:75:LEU:HA	2.03	0.41
1:Em:68:CYS:SG	1:Em:75:LEU:HB2	2.61	0.41
1:Dl:18:VAL:HG22	1:EF:11:MET:HB2	2.03	0.41
1:BA:11:MET:HB3	1:IE:18:VAL:CG2	2.48	0.41
1:BA:14:THR:HB	1:BA:19:PRO:HB2	2.02	0.41
1:BA:61:VAL:HG12	1:BA:61:VAL:O	2.21	0.41
1:DE:35:LEU:HD23	1:E1:91:ILE:HG23	2.03	0.41
1:FD:12:ILE:HD12	1:FD:27:MET:SD	2.61	0.41
1:GA:79:HIS:ND1	3:YE:786:SER:HB2	2.36	0.41
1:GB:11:MET:HE3	1:GB:79:HIS:HB3	2.03	0.41
1:HA:22:GLU:HG2	1:HA:71:VAL:HG21	2.03	0.41
1:KA:35:LEU:HD11	1:KA:48:VAL:CG1	2.50	0.41
1:KA:62:ARG:HH22	3:YE:799:ASP:H	1.69	0.41
1:KE:62:ARG:HA	3:YD:806:ILE:HD11	2.03	0.41
1:LD:44:GLY:O	3:XD:691:ILE:HG21	2.21	0.41
2:PE:42:ILE:HD12	3:YC:851:SER:HB3	2.02	0.41
3:YB:734:ALA:O	3:YB:735:ARG:C	2.64	0.41
1:B4:61:VAL:HG12	1:B4:61:VAL:O	2.20	0.41
1:B5:41:VAL:HG13	1:I4:40:PHE:CD1	2.56	0.41
1:B5:61:VAL:O	1:B5:61:VAL:HG12	2.20	0.41
1:C3:18:VAL:HG13	1:H2:11:MET:HE3	2.03	0.41
1:D2:80:ILE:HD11	3:Xg:616:ILE:CG2	2.37	0.41
1:D5:85:HIS:CE1	1:F5:28:THR:HG22	2.56	0.41
1:F1:12:ILE:HD12	1:F1:27:MET:SD	2.61	0.41
1:F3:12:ILE:HG23	1:F3:75:LEU:CD1	2.50	0.41
1:H1:62:ARG:HG3	3:Y4:848:ILE:CD1	2.32	0.41
1:K5:35:LEU:HD11	1:K5:48:VAL:CG1	2.50	0.41
1:O2:12:ILE:HG23	1:O2:75:LEU:CD1	2.50	0.41
2:P2:14:ASN:ND2	2:P3:42:ILE:HG21	2.36	0.41
2:P2:59:ARG:NH2	2:P3:60:GLU:HB2	2.36	0.41
2:P5:42:ILE:HD12	3:Y3:851:SER:HB3	2.03	0.41
1:B0:41:VAL:HG13	1:I9:40:PHE:CD1	2.56	0.41
1:B0:61:VAL:HG12	1:B0:61:VAL:O	2.20	0.41
1:B6:14:THR:HB	1:B6:19:PRO:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B6:61:VAL:HG12	1:B6:61:VAL:O	2.20	0.41
1:B8:62:ARG:HB3	3:Y7:720:ALA:HB3	2.02	0.41
1:C9:80:ILE:HD12	3:Y7:861:ILE:HG22	2.02	0.41
1:D0:21:ILE:HD13	1:EQ:92:LEU:CD2	2.51	0.41
1:D8:85:HIS:CE1	1:F8:28:THR:HG22	2.56	0.41
1:F0:18:VAL:N	1:F0:19:PRO:CD	2.84	0.41
1:F8:18:VAL:N	1:F8:19:PRO:CD	2.84	0.41
1:F9:12:ILE:HG23	1:F9:75:LEU:CD1	2.50	0.41
1:F9:66:ASP:HB2	3:X9:720:ALA:CB	2.48	0.41
1:G0:57:VAL:O	1:G0:61:VAL:HG23	2.21	0.41
1:G6:18:VAL:N	1:G6:19:PRO:CD	2.83	0.41
1:G9:12:ILE:HG23	1:G9:75:LEU:CD1	2.51	0.41
1:H7:22:GLU:HG2	1:H7:71:VAL:HG21	2.03	0.41
1:L7:83:ARG:NH1	1:DM:28:THR:O	2.52	0.41
1:N9:79:HIS:HA	3:Y8:714:THR:O	2.20	0.41
1:O9:12:ILE:HG23	1:O9:75:LEU:CD1	2.50	0.41
2:P9:10:LEU:HD21	2:P0:77:ILE:HG12	2.02	0.41
1:BP:61:VAL:HG12	1:BP:61:VAL:O	2.21	0.41
1:BR:14:THR:HB	1:BR:19:PRO:HB2	2.02	0.41
1:BR:61:VAL:O	1:BR:61:VAL:HG12	2.20	0.41
1:BS:79:HIS:HA	3:YR:725:THR:O	2.20	0.41
1:BT:41:VAL:HG13	1:IS:40:PHE:CD1	2.56	0.41
1:BT:47:THR:HG21	1:IS:18:VAL:CG2	2.45	0.41
1:DT:28:THR:O	1:LH:83:ARG:NH1	2.49	0.41
1:DT:85:HIS:CE1	1:FT:28:THR:HG22	2.56	0.41
1:ER:81:ILE:CG2	1:D4:25:ASP:OD2	2.64	0.41
1:ES:87:GLU:OE1	1:Da:28:THR:HG21	2.20	0.41
1:FQ:18:VAL:N	1:FQ:19:PRO:CD	2.84	0.41
1:FR:28:THR:HG22	1:DR:85:HIS:CE1	2.56	0.41
1:FT:18:VAL:N	1:FT:19:PRO:CD	2.84	0.41
1:GR:18:VAL:N	1:GR:19:PRO:CD	2.83	0.41
1:HS:22:GLU:HG2	1:HS:71:VAL:HG21	2.03	0.41
1:JP:79:HIS:HA	3:XO:628:THR:O	2.21	0.41
1:KS:58:ASN:OD1	3:YR:802:VAL:HG13	2.20	0.41
1:KT:62:ARG:HA	3:YS:806:ILE:HD11	2.03	0.41
1:LQ:44:GLY:O	3:XQ:691:ILE:HG21	2.21	0.41
1:LQ:58:ASN:CG	3:XQ:643:TYR:HB3	2.45	0.41
1:LQ:61:VAL:HG12	3:XQ:638:ILE:HD12	2.02	0.41
1:NR:58:ASN:HA	1:NR:80:ILE:HD13	2.02	0.41
1:OP:12:ILE:HG23	1:OP:75:LEU:CD1	2.50	0.41
2:PP:39:VAL:HG21	2:PP:67:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PR:37:VAL:CG2	2:PS:3:ILE:HD11	2.51	0.41
2:PS:42:ILE:H	2:PS:42:ILE:HG12	1.69	0.41
2:PT:39:VAL:HG21	2:PT:67:TYR:CE1	2.56	0.41
2:PT:42:ILE:HD12	3:YR:851:SER:HB3	2.02	0.41
1:BG:14:THR:HB	1:BG:19:PRO:HB2	2.02	0.41
1:BG:61:VAL:O	1:BG:61:VAL:HG12	2.20	0.41
1:BH:61:VAL:O	1:BH:61:VAL:HG12	2.20	0.41
1:GG:79:HIS:ND1	3:YK:786:SER:HB2	2.36	0.41
1:GH:11:MET:HE3	1:GH:79:HIS:HB3	2.03	0.41
1:KK:62:ARG:HA	3:YJ:806:ILE:HD11	2.03	0.41
2:PK:42:ILE:HD12	3:YI:851:SER:HB3	2.02	0.41
1:BF:61:VAL:HG12	1:BF:61:VAL:O	2.20	0.41
1:BN:61:VAL:HG12	1:BN:61:VAL:O	2.20	0.41
1:FN:12:ILE:HD12	1:FN:27:MET:SD	2.61	0.41
1:FN:18:VAL:N	1:FN:19:PRO:CD	2.84	0.41
1:HM:22:GLU:HG2	1:HM:71:VAL:HG21	2.03	0.41
1:KL:7:ILE:HD12	1:KL:83:ARG:CG	2.51	0.41
1:OO:12:ILE:HG23	1:OO:75:LEU:CD1	2.50	0.41
2:PL:39:VAL:HG23	2:PM:1:MET:HE1	2.02	0.41
3:YL:775:CYS:HA	3:YL:793:CYS:HA	2.03	0.41
1:Be:11:MET:HB3	1:Ii:18:VAL:CG2	2.48	0.41
1:Be:66:ASP:OD2	3:Yi:719:LEU:HB2	2.21	0.41
1:Gf:11:MET:HE3	1:Gf:79:HIS:HB3	2.03	0.41
1:Gg:79:HIS:ND1	3:Yf:786:SER:HB2	2.35	0.41
1:Je:79:HIS:HA	3:Xd:628:THR:O	2.21	0.41
1:Jh:83:ARG:HD2	1:Lq:31:ALA:O	2.21	0.41
1:Kg:14:THR:HB	1:Kg:19:PRO:HB2	2.03	0.41
1:Ne:79:HIS:HA	3:Yi:714:THR:O	2.20	0.41
1:Ng:58:ASN:HA	1:Ng:80:ILE:HD13	2.02	0.41
2:Pe:14:ASN:O	2:Pf:42:ILE:HD12	2.20	0.41
2:Pf:65:LYS:HB3	2:Pf:65:LYS:HE2	1.81	0.41
2:Pg:37:VAL:CG2	2:Ph:3:ILE:HD11	2.51	0.41
2:Pg:59:ARG:NH2	2:Ph:57:ALA:HA	2.36	0.41
2:Pi:42:ILE:HD12	3:Yg:851:SER:HB3	2.02	0.41
3:Ye:775:CYS:HA	3:Ye:793:CYS:HA	2.03	0.41
3:Yf:734:ALA:O	3:Yf:735:ARG:C	2.64	0.41
1:BV:61:VAL:O	1:BV:61:VAL:HG12	2.20	0.41
1:CX:18:VAL:HG22	1:HW:11:MET:CB	2.49	0.41
1:EX:62:ARG:HG2	3:YX:702:ILE:HG12	2.03	0.41
1:FV:18:VAL:N	1:FV:19:PRO:CD	2.84	0.41
1:HW:22:GLU:HG2	1:HW:71:VAL:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:HY:22:GLU:HG2	1:HY:71:VAL:HG21	2.03	0.41
1:KV:14:THR:HB	1:KV:19:PRO:HB2	2.03	0.41
1:KX:35:LEU:HD12	1:KX:35:LEU:HA	1.97	0.41
1:LY:79:HIS:HA	3:XY:639:SER:O	2.20	0.41
1:LY:80:ILE:HD12	3:XY:638:ILE:HG21	2.03	0.41
2:PY:10:LEU:HD21	2:PZ:77:ILE:HG12	2.02	0.41
2:PZ:42:ILE:HD12	3:YX:851:SER:HB3	2.02	0.41
1:BU:61:VAL:HG12	1:BU:61:VAL:O	2.20	0.41
1:Ba:14:THR:HB	1:Ba:19:PRO:HB2	2.02	0.41
1:Cc:25:ASP:HA	1:Hb:88:VAL:CG2	2.48	0.41
1:Cc:73:ASP:OD2	1:Hb:45:TYR:OH	2.18	0.41
1:Ea:11:MET:SD	1:DS:18:VAL:HG13	2.60	0.41
1:Fb:12:ILE:HG23	1:Fb:75:LEU:CD1	2.50	0.41
1:Fc:18:VAL:N	1:Fc:19:PRO:CD	2.84	0.41
1:GU:11:MET:CB	1:HU:18:VAL:HG22	2.51	0.41
1:GU:13:GLU:OE2	1:GU:45:TYR:HB3	2.21	0.41
1:Hb:22:GLU:HG2	1:Hb:71:VAL:HG21	2.03	0.41
1:Kc:14:THR:HB	1:Kc:19:PRO:HB2	2.03	0.41
1:Nc:79:HIS:HA	3:Yb:714:THR:O	2.21	0.41
2:Pa:77:ILE:HG12	2:PU:10:LEU:HD21	2.03	0.41
2:Pc:14:ASN:O	2:Pd:42:ILE:HD12	2.20	0.41
1:Bu:61:VAL:O	1:Bu:61:VAL:HG12	2.20	0.41
1:Bw:14:THR:HB	1:Bw:19:PRO:HB2	2.02	0.41
1:Bx:41:VAL:HG13	1:Iw:40:PHE:CD1	2.56	0.41
1:Bx:61:VAL:HG12	3:Yw:724:ILE:CD1	2.50	0.41
1:Dv:80:ILE:N	3:X8:617:SER:O	2.53	0.41
1:Dx:35:LEU:HD23	1:Ek:91:ILE:HG23	2.03	0.41
1:Et:92:LEU:CD2	1:Dr:21:ILE:HD13	2.51	0.41
1:Hu:80:ILE:CD1	3:Yx:848:ILE:CG2	2.96	0.41
1:Hv:22:GLU:HG2	1:Hv:71:VAL:HG21	2.03	0.41
1:Lu:44:GLY:O	3:Xu:691:ILE:HG21	2.21	0.41
1:Nu:58:ASN:HA	1:Nu:80:ILE:HD13	2.02	0.41
1:Ov:11:MET:HE3	1:Jv:18:VAL:HG13	2.03	0.41
1:Am:70:ARG:HA	3:Yk:841:PRO:CG	2.51	0.41
1:Bk:14:THR:HB	1:Bk:19:PRO:HB2	2.02	0.41
1:Bl:91:ILE:CD1	1:Ik:21:ILE:CD1	2.97	0.41
1:Dk:47:THR:CG2	1:Fk:17:LEU:HD23	2.48	0.41
1:Dm:85:HIS:CE1	1:Fm:28:THR:HG22	2.56	0.41
1:Do:85:HIS:CE1	1:Fo:28:THR:HG22	2.56	0.41
1:Fm:18:VAL:N	1:Fm:19:PRO:CD	2.84	0.41
1:Fo:12:ILE:HG23	1:Fo:75:LEU:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Gk:18:VAL:N	1:Gk:19:PRO:CD	2.83	0.41
1:Gm:79:HIS:ND1	3:Yl:786:SER:HB2	2.35	0.41
1:Kl:14:THR:HB	1:Kl:19:PRO:HB2	2.03	0.41
1:Ko:35:LEU:HD12	1:Ko:35:LEU:HA	1.97	0.41
2:Pk:14:ASN:O	2:Pl:42:ILE:HD12	2.21	0.41
3:Yl:716:PRO:HG3	1:Nm:82:ALA:HB2	2.03	0.41
1:Bp:61:VAL:HG12	1:Bp:61:VAL:O	2.21	0.41
1:Ds:85:HIS:CE1	1:Fs:28:THR:HG22	2.56	0.41
1:Fs:12:ILE:HD12	1:Fs:27:MET:SD	2.61	0.41
1:Gj:11:MET:CB	1:Hj:18:VAL:HG22	2.51	0.41
1:Hj:22:GLU:HG2	1:Hj:71:VAL:HG21	2.03	0.41
1:Hq:22:GLU:HG2	1:Hq:71:VAL:HG21	2.03	0.41
1:Ir:62:ARG:CG	3:Xr:730:PHE:HB2	2.51	0.41
1:Jq:32:GLU:HG3	1:Dq:83:ARG:HH21	1.86	0.41
1:Jr:43:GLY:O	3:Xr:694:PRO:HG2	2.21	0.41
2:Pr:55:SER:HA	2:Pr:70:ASP:HA	2.03	0.41
3:X7:693:THR:HB	3:X7:696:ARG:HB3	2.01	0.41
3:Xb:691:ILE:H	3:Xb:691:ILE:HG13	1.53	0.41
3:Xr:626:LEU:H	3:Xr:626:LEU:HG	1.71	0.41
3:X5:692:GLN:HA	3:X5:696:ARG:HD2	2.02	0.41
1:Dh:39:GLN:NE2	1:Dh:93:PRO:HG3	2.36	0.41
1:Df:58:ASN:CG	1:Df:58:ASN:O	2.64	0.41
1:LI:32:GLU:OE1	1:JU:7:ILE:HG12	2.21	0.41
1:LI:83:ARG:NH1	1:DU:28:THR:O	2.52	0.41
1:Fl:17:LEU:HD23	1:Dl:47:THR:CG2	2.48	0.41
1:DU:65:ALA:O	1:DU:66:ASP:C	2.63	0.41
1:DF:7:ILE:CD1	1:JF:32:GLU:CG	2.98	0.41
1:MF:19:PRO:HG3	1:MF:71:VAL:O	2.21	0.41
1:DB:28:THR:HG21	1:Eu:85:HIS:ND1	2.36	0.41
1:EA:12:ILE:HG23	1:EA:75:LEU:CD1	2.51	0.41
1:EA:87:GLU:OE1	1:D8:28:THR:HG23	2.21	0.41
1:KA:18:VAL:HG22	1:NA:11:MET:HB3	2.03	0.41
1:KE:35:LEU:HD11	1:KE:48:VAL:CG1	2.50	0.41
1:LE:44:GLY:O	3:XE:691:ILE:HG21	2.21	0.41
1:OA:12:ILE:HG23	1:OA:75:LEU:CD1	2.50	0.41
2:PC:39:VAL:HG21	2:PC:67:TYR:HE1	1.87	0.41
3:XE:643:TYR:HE2	1:Dg:55:GLY:C	2.29	0.41
1:B2:61:VAL:O	1:B2:61:VAL:HG12	2.20	0.41
1:F1:18:VAL:N	1:F1:19:PRO:CD	2.84	0.41
1:F2:20:ALA:HB1	1:F2:48:VAL:CG2	2.51	0.41
1:G2:94:LYS:HA	1:G2:94:LYS:HD2	1.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H1:22:GLU:HG2	1:H1:71:VAL:HG21	2.03	0.41
1:K2:58:ASN:OD1	3:Y1:802:VAL:HG13	2.20	0.41
1:K3:7:ILE:HD12	1:K3:83:ARG:CG	2.51	0.41
1:L1:29:LYS:O	1:M9:29:LYS:NZ	2.52	0.41
1:L1:83:ARG:NH1	1:D9:28:THR:O	2.52	0.41
1:O1:12:ILE:HG23	1:O1:75:LEU:CD1	2.50	0.41
2:P5:39:VAL:HG21	2:P5:67:TYR:CE1	2.56	0.41
3:X1:624:SER:HB2	1:J9:62:ARG:CZ	2.51	0.41
1:A9:70:ARG:HA	3:Y7:841:PRO:CG	2.51	0.41
1:B8:61:VAL:HG12	1:B8:61:VAL:O	2.20	0.41
1:D0:85:HIS:CE1	1:F0:28:THR:HG22	2.56	0.41
1:F6:28:THR:HG22	1:D6:85:HIS:CE1	2.56	0.41
1:J8:43:GLY:O	3:X8:694:PRO:HG2	2.21	0.41
1:K6:62:ARG:HH22	3:Y0:799:ASP:H	1.69	0.41
1:K9:7:ILE:HD12	1:K9:83:ARG:CG	2.51	0.41
3:Y9:775:CYS:HA	3:Y9:793:CYS:HA	2.03	0.41
1:BT:61:VAL:HG12	1:BT:61:VAL:O	2.20	0.41
1:CT:62:ARG:HB3	2:PS:21:HIS:HB3	2.02	0.41
1:EP:85:HIS:CD2	1:DN:28:THR:HG22	2.55	0.41
1:FP:12:ILE:HG23	1:FP:75:LEU:CD1	2.50	0.41
1:GP:12:ILE:HG23	1:GP:75:LEU:CD1	2.52	0.41
1:GQ:68:CYS:HA	1:GQ:71:VAL:HG12	2.03	0.41
1:HQ:22:GLU:HG2	1:HQ:71:VAL:HG21	2.03	0.41
2:PP:22:LYS:HE2	2:PP:62:ALA:O	2.21	0.41
3:YP:775:CYS:HA	3:YP:793:CYS:HA	2.03	0.41
1:EJ:79:HIS:HA	3:YJ:703:THR:O	2.21	0.41
1:FJ:12:ILE:HD12	1:FJ:27:MET:SD	2.61	0.41
1:FJ:18:VAL:N	1:FJ:19:PRO:CD	2.84	0.41
1:KG:18:VAL:HG22	1:NG:11:MET:HB3	2.03	0.41
1:KH:62:ARG:HH22	3:YG:799:ASP:H	1.69	0.41
2:PJ:53:VAL:HB	2:PJ:74:ILE:HD13	2.03	0.41
1:DL:85:HIS:CE1	1:FL:28:THR:HG22	2.56	0.41
1:DN:85:HIS:CE1	1:FN:28:THR:HG22	2.56	0.41
1:FO:18:VAL:N	1:FO:19:PRO:CD	2.84	0.41
1:KL:35:LEU:HD12	1:KL:35:LEU:HA	1.97	0.41
1:NN:79:HIS:HA	3:YM:714:THR:O	2.21	0.41
1:OF:12:ILE:HG23	1:OF:75:LEU:CD1	2.50	0.41
3:YF:775:CYS:HA	3:YF:793:CYS:HA	2.03	0.41
1:Be:14:THR:HB	1:Be:19:PRO:HB2	2.02	0.41
1:Bi:41:VAL:HG13	1:Ih:40:PHE:CD1	2.56	0.41
1:Eh:12:ILE:HG23	1:Eh:75:LEU:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ge:18:VAL:N	1:Ge:19:PRO:CD	2.83	0.41
1:Gh:12:ILE:HG23	1:Gh:75:LEU:CD1	2.51	0.41
1:Hf:62:ARG:HG3	3:Yi:848:ILE:CD1	2.26	0.41
1:Lh:44:GLY:O	3:Xh:691:ILE:HG21	2.21	0.41
2:Pe:22:LYS:HE2	2:Pe:62:ALA:O	2.21	0.41
2:Pe:77:ILE:HG12	2:Pi:10:LEU:HD21	2.03	0.41
3:Yg:719:LEU:H	3:Yg:719:LEU:HG	1.65	0.41
1:DV:85:HIS:CE1	1:FV:28:THR:HG22	2.56	0.41
1:OW:92:LEU:HD23	1:OW:92:LEU:HA	1.94	0.41
2:PX:14:ASN:O	2:PY:42:ILE:HD12	2.20	0.41
3:XV:624:SER:HB2	1:Jd:62:ARG:CZ	2.51	0.41
1:EU:92:LEU:CD2	1:DH:21:ILE:CD1	2.95	0.41
1:Ga:12:ILE:HG23	1:Ga:75:LEU:CD1	2.51	0.41
1:NU:58:ASN:HA	1:NU:80:ILE:HD13	2.02	0.41
1:OU:92:LEU:HD23	1:OU:92:LEU:HA	1.94	0.41
1:Bu:61:VAL:HG12	3:Yt:724:ILE:HD13	2.01	0.41
1:Dt:28:THR:CG2	1:Er:85:HIS:CE1	3.04	0.41
1:Dt:85:HIS:CE1	1:Ft:28:THR:HG22	2.56	0.41
1:Hv:80:ILE:CD1	3:Yt:848:ILE:CG2	2.95	0.41
1:Jw:53:GLU:OE2	1:Dw:53:GLU:OE2	2.39	0.41
1:Kx:62:ARG:HA	3:Yw:806:ILE:HD11	2.03	0.41
1:Lu:58:ASN:CG	3:Xu:643:TYR:HB3	2.45	0.41
1:Mv:21:ILE:HG22	1:Jv:81:ILE:HD11	2.03	0.41
2:Pv:55:SER:HA	2:Pv:70:ASP:HA	2.02	0.41
3:Xt:691:ILE:HD12	3:Xt:696:ARG:HH22	1.85	0.41
1:En:12:ILE:HG23	1:En:75:LEU:CD1	2.51	0.41
1:Hm:62:ARG:HG3	3:Yk:848:ILE:CD1	2.28	0.41
1:Ho:80:ILE:CD1	3:Ym:848:ILE:CG2	2.99	0.41
3:Xk:624:SER:HB2	1:Js:62:ARG:CZ	2.51	0.41
3:Xl:729:GLU:H	3:Xl:729:GLU:HG3	1.78	0.41
1:Hr:22:GLU:HG2	1:Hr:71:VAL:HG21	2.03	0.41
1:Os:79:HIS:HA	3:Xs:714:THR:O	2.21	0.41
2:Pp:14:ASN:O	2:Pq:42:ILE:HD12	2.21	0.41
2:Pp:77:ILE:HG12	2:Pj:10:LEU:HD21	2.03	0.41
3:XD:615:ILE:O	1:Dq:78:ALA:HB3	2.21	0.41
1:DM:61:VAL:O	1:DM:62:ARG:C	2.62	0.41
3:XY:647:GLN:H	3:XY:647:GLN:HG3	1.54	0.41
1:FY:12:ILE:HD12	1:FY:27:MET:SD	2.61	0.41
1:EL:42:GLY:C	1:EL:44:GLY:H	2.28	0.41
1:Dh:58:ASN:O	1:Dh:59:ALA:C	2.63	0.41
3:Y3:775:CYS:HA	3:Y3:793:CYS:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DH:78:ALA:HB3	3:Xa:616:ILE:HD13	2.03	0.41
1:Df:57:VAL:O	1:Df:60:ALA:HB3	2.21	0.41
1:JI:43:GLY:O	3:XI:694:PRO:HG2	2.21	0.41
1:Fl:12:ILE:HD12	1:Fl:27:MET:SD	2.61	0.41
3:Xm:639:SER:O	1:Lm:79:HIS:HA	2.21	0.41
1:BA:66:ASP:OD2	3:YE:719:LEU:HB2	2.21	0.40
1:DB:80:ILE:CD1	3:Xv:616:ILE:HG21	2.51	0.40
1:DC:35:LEU:CD2	1:Eq:91:ILE:CG2	2.99	0.40
1:FD:18:VAL:N	1:FD:19:PRO:CD	2.84	0.40
1:GD:12:ILE:HG23	1:GD:75:LEU:CD1	2.52	0.40
1:JB:62:ARG:CZ	3:Xv:624:SER:H	2.34	0.40
1:JE:62:ARG:NE	3:X2:624:SER:HB2	2.37	0.40
1:LE:32:GLU:HB2	1:Jg:7:ILE:HD11	2.02	0.40
1:OC:92:LEU:HD23	1:OC:92:LEU:HA	1.94	0.40
2:PA:77:ILE:HG12	2:PE:10:LEU:HD21	2.03	0.40
3:XA:691:ILE:H	3:XA:691:ILE:HG13	1.45	0.40
3:YE:775:CYS:HA	3:YE:793:CYS:HA	2.03	0.40
1:B2:18:VAL:N	1:B2:19:PRO:CD	2.85	0.40
1:B3:14:THR:HB	1:B3:19:PRO:HB2	2.03	0.40
1:B5:18:VAL:N	1:B5:19:PRO:CD	2.85	0.40
1:C4:80:ILE:HD12	3:Y2:861:ILE:HG22	2.02	0.40
1:D3:85:HIS:CE1	1:F3:28:THR:HG22	2.56	0.40
1:E2:12:ILE:HG23	1:E2:75:LEU:CD1	2.51	0.40
1:L5:29:LYS:O	1:MR:29:LYS:NZ	2.40	0.40
3:Y2:775:CYS:HA	3:Y2:793:CYS:HA	2.03	0.40
1:B0:18:VAL:N	1:B0:19:PRO:CD	2.85	0.40
1:E7:83:ARG:HH21	1:N8:32:GLU:CD	2.27	0.40
1:F0:12:ILE:HD12	1:F0:27:MET:SD	2.61	0.40
1:F9:18:VAL:N	1:F9:19:PRO:CD	2.84	0.40
1:K0:62:ARG:HA	3:Y9:806:ILE:HD11	2.03	0.40
1:K9:18:VAL:HG22	1:N9:11:MET:HB3	2.03	0.40
1:N6:58:ASN:HA	1:N6:80:ILE:HD13	2.02	0.40
2:P8:14:ASN:O	2:P9:42:ILE:HD12	2.20	0.40
3:Y6:775:CYS:HA	3:Y6:793:CYS:HA	2.03	0.40
1:BP:66:ASP:OD2	3:YT:719:LEU:HB2	2.21	0.40
1:BQ:18:VAL:N	1:BQ:19:PRO:CD	2.85	0.40
1:CP:25:ASP:HA	1:HT:88:VAL:CG2	2.48	0.40
1:CR:18:VAL:HG13	1:HQ:11:MET:HE3	2.03	0.40
1:DT:18:VAL:CG2	1:EG:11:MET:HB3	2.51	0.40
1:EP:92:LEU:CD2	1:DN:21:ILE:HD13	2.51	0.40
1:ER:12:ILE:HG23	1:ER:75:LEU:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FQ:12:ILE:HD12	1:FQ:27:MET:SD	2.61	0.40
1:KP:7:ILE:HD12	1:KP:83:ARG:CG	2.51	0.40
1:OR:12:ILE:HG23	1:OR:75:LEU:CD1	2.50	0.40
3:YR:775:CYS:HA	3:YR:793:CYS:HA	2.03	0.40
1:DK:18:VAL:HG11	1:EO:77:ALA:HB1	2.03	0.40
1:FG:12:ILE:HD12	1:FG:27:MET:SD	2.61	0.40
1:FH:28:THR:HG21	1:DH:87:GLU:HB2	2.04	0.40
1:GJ:12:ILE:HG23	1:GJ:75:LEU:CD1	2.51	0.40
1:KG:62:ARG:HH22	3:YK:799:ASP:H	1.69	0.40
1:KK:35:LEU:HD11	1:KK:48:VAL:CG1	2.50	0.40
1:OG:12:ILE:HG23	1:OG:75:LEU:CD1	2.50	0.40
2:PG:77:ILE:HG12	2:PK:10:LEU:HD21	2.03	0.40
3:YI:775:CYS:HA	3:YI:793:CYS:HA	2.03	0.40
3:YK:775:CYS:HA	3:YK:793:CYS:HA	2.03	0.40
1:BF:18:VAL:N	1:BF:19:PRO:CD	2.85	0.40
1:BF:41:VAL:HG13	1:IO:40:PHE:CD1	2.56	0.40
1:BL:14:THR:HB	1:BL:19:PRO:HB2	2.02	0.40
1:DN:47:THR:CG2	1:FN:17:LEU:HD23	2.48	0.40
1:FO:12:ILE:HD12	1:FO:27:MET:SD	2.61	0.40
1:HL:22:GLU:HG2	1:HL:71:VAL:HG21	2.03	0.40
1:KF:62:ARG:HA	3:YO:806:ILE:HD11	2.03	0.40
1:Ag:70:ARG:HA	3:Ye:841:PRO:CG	2.51	0.40
1:Bf:91:ILE:CD1	1:Ie:21:ILE:CD1	2.97	0.40
1:Bg:47:THR:HG21	1:If:18:VAL:CG2	2.46	0.40
1:Bi:79:HIS:HA	3:Yh:725:THR:O	2.21	0.40
1:De:28:THR:CG2	1:Ec:85:HIS:CE1	3.04	0.40
1:Dg:85:HIS:CE1	1:Fg:28:THR:HG22	2.56	0.40
1:Eg:12:ILE:HG23	1:Eg:75:LEU:CD1	2.51	0.40
1:Ff:12:ILE:HD12	1:Ff:27:MET:SD	2.61	0.40
1:Ff:17:LEU:HD23	1:Df:47:THR:CG2	2.48	0.40
1:Gi:12:ILE:HG23	1:Gi:75:LEU:CD1	2.51	0.40
1:Hi:80:ILE:CD1	3:Yg:848:ILE:CG2	2.99	0.40
1:Kh:34:ARG:NH1	1:Kh:36:VAL:HG12	2.37	0.40
3:Xf:628:THR:OG1	1:Jc:79:HIS:CD2	2.74	0.40
3:Xg:632:ILE:H	3:Xg:632:ILE:HG12	1.70	0.40
1:DX:85:HIS:CE1	1:FX:28:THR:HG22	2.56	0.40
1:DZ:85:HIS:CE1	1:FZ:28:THR:HG22	2.56	0.40
1:HZ:22:GLU:HG2	1:HZ:71:VAL:HG21	2.03	0.40
1:Ac:22:GLU:OE2	3:Ya:865:GLY:N	2.25	0.40
1:Bb:14:THR:HB	1:Bb:19:PRO:HB2	2.02	0.40
1:Dc:85:HIS:CE1	1:Fc:28:THR:HG22	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dd:85:HIS:CE1	1:Fd:28:THR:HG22	2.56	0.40
1:EU:12:ILE:HG23	1:EU:75:LEU:CD1	2.51	0.40
1:Ga:79:HIS:ND1	3:YU:786:SER:HB2	2.36	0.40
1:Ha:22:GLU:HG2	1:Ha:71:VAL:HG21	2.03	0.40
3:Xd:727:THR:HA	3:Xd:728:PRO:HD3	1.91	0.40
1:Bu:14:THR:HB	1:Bu:19:PRO:HB2	2.02	0.40
1:Cu:73:ASP:OD2	1:Ht:45:TYR:OH	2.24	0.40
1:Cv:18:VAL:HG13	1:Hu:11:MET:HE3	2.03	0.40
1:Du:85:HIS:CE1	1:Fu:28:THR:HG22	2.56	0.40
1:Eu:12:ILE:HG23	1:Eu:75:LEU:CD1	2.51	0.40
1:Fw:12:ILE:HG23	1:Fw:75:LEU:CD1	2.50	0.40
1:Lv:44:GLY:O	3:Xv:691:ILE:HG21	2.21	0.40
2:Pt:42:ILE:HD12	3:Yw:851:SER:HB3	2.02	0.40
2:Pv:37:VAL:CG2	2:Pw:3:ILE:HD11	2.51	0.40
2:Pw:14:ASN:HD21	2:Px:76:ILE:HG13	1.86	0.40
2:Pw:28:TRP:HB3	2:Pw:35:ARG:HG2	2.03	0.40
3:Xu:643:TYR:CE1	1:Dr:55:GLY:HA2	2.55	0.40
1:Bk:11:MET:HB3	1:Io:18:VAL:CG2	2.48	0.40
1:Bo:41:VAL:HG13	1:In:40:PHE:CD1	2.56	0.40
1:Gn:12:ILE:HG23	1:Gn:75:LEU:CD1	2.52	0.40
1:Go:12:ILE:HG23	1:Go:75:LEU:CD1	2.51	0.40
2:Pk:77:ILE:HG12	2:Po:10:LEU:HD21	2.03	0.40
3:Ym:702:ILE:HG12	1:Em:62:ARG:HG2	2.03	0.40
1:As:70:ARG:HA	3:Yq:841:PRO:CG	2.51	0.40
1:Dp:85:HIS:CE1	1:Fp:28:THR:HG22	2.56	0.40
1:Hp:54:THR:HG22	2:Pj:13:THR:HB	2.03	0.40
1:Np:58:ASN:HA	1:Np:80:ILE:HD13	2.02	0.40
1:Ns:58:ASN:HA	1:Ns:80:ILE:HD13	2.02	0.40
3:Xb:643:TYR:HD1	3:Xb:643:TYR:HA	1.72	0.40
3:Xq:724:ILE:H	3:Xq:724:ILE:HG13	1.52	0.40
1:FL:20:ALA:HB1	1:FL:48:VAL:CG2	2.52	0.40
1:Km:7:ILE:HD12	1:Km:83:ARG:CG	2.51	0.40
1:BD:14:THR:HB	1:BD:19:PRO:HB2	2.02	0.40
1:BD:18:VAL:N	1:BD:19:PRO:CD	2.85	0.40
1:FA:12:ILE:HD12	1:FA:27:MET:SD	2.61	0.40
1:FB:20:ALA:HB1	1:FB:48:VAL:CG2	2.52	0.40
1:FC:12:ILE:HD12	1:FC:27:MET:SD	2.61	0.40
1:HE:80:ILE:CD1	3:YC:848:ILE:CG2	2.99	0.40
1:KB:14:THR:HB	1:KB:19:PRO:HB2	2.03	0.40
1:LB:44:GLY:O	3:XB:691:ILE:HG21	2.21	0.40
1:LB:61:VAL:HG12	3:XB:638:ILE:HD12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:YC:775:CYS:HA	3:YC:793:CYS:HA	2.03	0.40
1:D2:35:LEU:CD2	1:Ef:91:ILE:CG2	2.97	0.40
1:D5:18:VAL:HG11	1:E9:77:ALA:HB1	2.04	0.40
1:F3:20:ALA:HB1	1:F3:48:VAL:CG2	2.52	0.40
1:H3:22:GLU:HG2	1:H3:71:VAL:HG21	2.03	0.40
2:P3:39:VAL:HG21	2:P3:67:TYR:HE1	1.85	0.40
1:B7:18:VAL:N	1:B7:19:PRO:CD	2.84	0.40
1:B9:18:VAL:N	1:B9:19:PRO:CD	2.85	0.40
1:C6:29:LYS:CE	2:P0:45:ILE:HG22	2.52	0.40
1:C8:25:ASP:HA	1:H7:88:VAL:CG2	2.48	0.40
1:H0:22:GLU:HG2	1:H0:71:VAL:HG21	2.03	0.40
1:M6:83:ARG:HD2	1:MQ:31:ALA:O	2.21	0.40
1:BP:14:THR:HB	1:BP:19:PRO:HB2	2.02	0.40
1:BP:18:VAL:N	1:BP:19:PRO:CD	2.85	0.40
1:CS:80:ILE:HD12	3:YQ:861:ILE:HG22	2.02	0.40
1:DQ:85:HIS:CE1	1:FQ:28:THR:HG22	2.57	0.40
1:ES:83:ARG:NH2	1:NT:32:GLU:CD	2.77	0.40
1:FP:18:VAL:N	1:FP:19:PRO:CD	2.84	0.40
1:KP:18:VAL:HG22	1:NP:11:MET:HB3	2.04	0.40
1:LT:44:GLY:O	3:XT:691:ILE:HG21	2.21	0.40
2:PT:39:VAL:HG21	2:PT:67:TYR:HE1	1.85	0.40
1:BJ:18:VAL:N	1:BJ:19:PRO:CD	2.85	0.40
1:EG:12:ILE:HG23	1:EG:75:LEU:CD1	2.51	0.40
1:KH:7:ILE:HD12	1:KH:83:ARG:CG	2.51	0.40
1:KH:14:THR:HB	1:KH:19:PRO:HB2	2.03	0.40
1:BF:66:ASP:OD2	3:YO:719:LEU:HB3	2.21	0.40
1:CF:62:ARG:HD2	2:PO:21:HIS:CE1	2.56	0.40
1:FM:12:ILE:HD12	1:FM:27:MET:SD	2.61	0.40
1:HL:54:THR:HG22	2:PF:13:THR:HB	2.03	0.40
1:JN:43:GLY:O	3:XN:694:PRO:HG2	2.21	0.40
1:NO:58:ASN:HA	1:NO:80:ILE:HD13	2.02	0.40
2:PO:42:ILE:HD12	3:YM:851:SER:HB3	2.04	0.40
2:PF:65:LYS:H	2:PF:65:LYS:HG2	1.75	0.40
1:Di:85:HIS:CE1	1:Fi:28:THR:HG22	2.57	0.40
1:Fe:12:ILE:HD12	1:Fe:27:MET:SD	2.61	0.40
1:Fi:18:VAL:N	1:Fi:19:PRO:CD	2.84	0.40
1:Kg:34:ARG:NH1	1:Kg:36:VAL:HG12	2.37	0.40
1:Ki:34:ARG:NH1	1:Ki:36:VAL:HG12	2.37	0.40
1:Lg:44:GLY:O	3:Xg:691:ILE:HG21	2.21	0.40
3:Xf:628:THR:OG1	1:Jc:79:HIS:HD2	2.04	0.40
1:DX:62:ARG:NE	3:Xo:645:GLY:HA2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EZ:91:ILE:CG2	1:Dd:35:LEU:CD2	2.98	0.40
1:FX:18:VAL:N	1:FX:19:PRO:CD	2.84	0.40
1:GZ:12:ILE:HG23	1:GZ:75:LEU:CD1	2.51	0.40
1:JX:43:GLY:O	3:XX:694:PRO:HG2	2.21	0.40
1:KX:18:VAL:HG22	1:NX:11:MET:HB3	2.03	0.40
1:KZ:7:ILE:CD1	1:KZ:83:ARG:HD3	2.52	0.40
1:NX:58:ASN:HA	1:NX:80:ILE:HD13	2.02	0.40
1:Ac:70:ARG:HA	3:Ya:841:PRO:CG	2.51	0.40
1:Ad:70:ARG:HA	3:Yb:841:PRO:CG	2.51	0.40
1:Cc:46:VAL:CG2	1:Hb:41:VAL:HG13	2.52	0.40
1:Dc:68:CYS:SG	1:Dc:75:LEU:HD13	2.62	0.40
1:Gc:12:ILE:HG23	1:Gc:75:LEU:CD1	2.51	0.40
1:HU:22:GLU:HG2	1:HU:71:VAL:HG21	2.03	0.40
1:Ob:45:TYR:CE2	3:Xb:695:ALA:HB2	2.55	0.40
2:Pc:55:SER:HA	2:Pc:70:ASP:HA	2.03	0.40
1:Bu:91:ILE:CD1	1:It:21:ILE:CD1	2.97	0.40
1:Cw:80:ILE:HD12	3:Yu:861:ILE:HG22	2.02	0.40
1:Dx:85:HIS:CE1	1:Fx:28:THR:HG22	2.57	0.40
1:Et:87:GLU:OE1	1:Dr:28:THR:HG23	2.21	0.40
1:Gu:35:LEU:HA	1:Gu:50:VAL:HG12	2.04	0.40
1:Kw:7:ILE:HD12	1:Kw:83:ARG:CG	2.51	0.40
1:Nv:58:ASN:HA	1:Nv:80:ILE:HD13	2.02	0.40
2:Pv:59:ARG:NH2	2:Pw:57:ALA:HA	2.36	0.40
3:Xu:628:THR:OG1	1:Jr:79:HIS:HD2	2.04	0.40
3:Xv:647:GLN:H	3:Xv:647:GLN:HG3	1.51	0.40
1:Fk:12:ILE:HD12	1:Fk:27:MET:SD	2.61	0.40
1:Ko:62:ARG:HA	3:Yn:806:ILE:HD11	2.03	0.40
1:Nk:58:ASN:HA	1:Nk:80:ILE:HD13	2.02	0.40
2:Pl:14:ASN:ND2	2:Pm:42:ILE:HG21	2.36	0.40
2:Po:42:ILE:HD12	3:Ym:851:SER:HB3	2.03	0.40
1:Bs:18:VAL:N	1:Bs:19:PRO:CD	2.85	0.40
1:Dr:85:HIS:CE1	1:Fr:28:THR:HG22	2.56	0.40
1:Ej:83:ARG:NH2	1:Np:32:GLU:CD	2.79	0.40
1:Eq:12:ILE:HG23	1:Eq:75:LEU:CD1	2.51	0.40
1:Fp:18:VAL:N	1:Fp:19:PRO:CD	2.84	0.40
1:Fr:20:ALA:HB1	1:Fr:48:VAL:CG2	2.52	0.40
1:Gp:79:HIS:ND1	3:Yj:786:SER:HB2	2.36	0.40
1:Gr:12:ILE:HG23	1:Gr:75:LEU:CD1	2.51	0.40
1:Kp:18:VAL:HG22	1:Np:11:MET:HB3	2.03	0.40
2:Pq:14:ASN:ND2	2:Pr:42:ILE:HG21	2.36	0.40
1:Fh:71:VAL:HG22	1:Dh:79:HIS:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FY:20:ALA:HB1	1:FY:48:VAL:CG2	2.52	0.40
3:XX:623:ALA:H	3:XX:648:GLN:HE22	1.68	0.40
1:Fq:72:GLY:HA2	1:Dq:77:ALA:CB	2.46	0.40
1:Nm:58:ASN:HA	1:Nm:80:ILE:HD13	2.02	0.40
1:AC:70:ARG:HA	3:YA:841:PRO:CG	2.51	0.40
1:BE:79:HIS:HA	3:YD:725:THR:O	2.21	0.40
1:FE:20:ALA:HB1	1:FE:48:VAL:CG2	2.52	0.40
1:KC:34:ARG:NH1	1:KC:36:VAL:HG12	2.37	0.40
1:NB:58:ASN:HA	1:NB:80:ILE:HD13	2.02	0.40
2:PD:28:TRP:HB3	2:PD:35:ARG:HG2	2.03	0.40
3:XC:619:THR:HG21	1:Du:82:ALA:CB	2.52	0.40
3:YC:719:LEU:H	3:YC:719:LEU:HG	1.65	0.40
1:B5:14:THR:HB	1:B5:19:PRO:HB2	2.02	0.40
1:E4:79:HIS:HA	3:Y4:703:THR:O	2.21	0.40
1:F4:12:ILE:HD12	1:F4:27:MET:SD	2.61	0.40
1:G3:12:ILE:HG23	1:G3:75:LEU:CD1	2.51	0.40
1:K4:18:VAL:HG22	1:N4:11:MET:HB3	2.03	0.40
1:N1:58:ASN:HA	1:N1:80:ILE:HD13	2.02	0.40
3:X1:647:GLN:H	3:X1:647:GLN:HG3	1.56	0.40
1:C8:18:VAL:HG13	1:H7:11:MET:HE3	2.03	0.40
1:F6:20:ALA:HB1	1:F6:48:VAL:CG2	2.52	0.40
1:G0:13:GLU:OE2	1:G0:45:TYR:HB3	2.21	0.40
1:G0:97:GLN:HA	1:I0:90:ASN:HB3	2.03	0.40
1:K6:18:VAL:HG22	1:N6:11:MET:HB3	2.03	0.40
1:K7:7:ILE:CD1	1:K7:83:ARG:HD3	2.52	0.40
1:N8:58:ASN:HA	1:N8:80:ILE:HD13	2.02	0.40
1:O6:12:ILE:HG23	1:O6:75:LEU:CD1	2.50	0.40
1:BR:91:ILE:HD12	1:IQ:21:ILE:CD1	2.48	0.40
1:BS:18:VAL:N	1:BS:19:PRO:CD	2.85	0.40
1:BT:18:VAL:N	1:BT:19:PRO:CD	2.84	0.40
1:CP:29:LYS:O	2:PT:9:THR:CG2	2.70	0.40
1:EP:90:ASN:HB3	1:DN:97:GLN:CA	2.34	0.40
1:ES:11:MET:CB	1:Da:18:VAL:HG22	2.51	0.40
1:ES:87:GLU:OE1	1:Da:28:THR:HG23	2.20	0.40
1:FP:20:ALA:HB1	1:FP:48:VAL:CG2	2.52	0.40
1:FR:20:ALA:HB1	1:FR:48:VAL:CG2	2.52	0.40
1:GQ:18:VAL:HB	1:GQ:19:PRO:HD3	2.02	0.40
1:GQ:35:LEU:HA	1:GQ:50:VAL:HG12	2.04	0.40
1:HP:54:THR:HG22	2:PT:13:THR:HB	2.03	0.40
1:JT:62:ARG:NE	3:XH:624:SER:HB2	2.37	0.40
1:KS:14:THR:HB	1:KS:19:PRO:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PP:14:ASN:O	2:PQ:42:ILE:HD12	2.20	0.40
2:PQ:14:ASN:ND2	2:PR:42:ILE:HG21	2.36	0.40
1:AI:70:ARG:HA	3:YG:841:PRO:CG	2.51	0.40
1:BJ:11:MET:HB3	1:II:18:VAL:CG2	2.45	0.40
1:BJ:61:VAL:HG12	1:BJ:61:VAL:O	2.20	0.40
1:DK:85:HIS:CE1	1:FK:28:THR:HG22	2.56	0.40
1:FH:20:ALA:HB1	1:FH:48:VAL:CG2	2.52	0.40
1:FI:12:ILE:HD12	1:FI:27:MET:SD	2.61	0.40
1:FK:20:ALA:HB1	1:FK:48:VAL:CG2	2.52	0.40
1:HK:80:ILE:CD1	3:YI:848:ILE:CG2	2.99	0.40
3:XH:647:GLN:H	3:XH:647:GLN:HG3	1.52	0.40
3:YG:716:PRO:HA	3:YG:719:LEU:HG	2.04	0.40
1:BL:66:ASP:OD1	3:YF:720:ALA:HB2	2.21	0.40
1:BN:18:VAL:N	1:BN:19:PRO:CD	2.85	0.40
1:CN:18:VAL:HG13	1:HM:11:MET:HE3	2.03	0.40
1:KM:18:VAL:HG22	1:NM:11:MET:HB3	2.03	0.40
1:Bg:14:THR:HB	1:Bg:19:PRO:HB2	2.02	0.40
1:Bh:79:HIS:HA	3:Yg:725:THR:O	2.20	0.40
1:Cg:46:VAL:CG2	1:Hf:41:VAL:HG13	2.52	0.40
1:De:47:THR:CG2	1:Fe:17:LEU:HD23	2.48	0.40
1:Di:18:VAL:CG2	1:EV:11:MET:HB3	2.51	0.40
1:Ff:20:ALA:HB1	1:Ff:48:VAL:CG2	2.52	0.40
1:Hf:22:GLU:HG2	1:Hf:71:VAL:HG21	2.03	0.40
1:Ke:35:LEU:HD12	1:Ke:35:LEU:HA	1.97	0.40
1:Lf:44:GLY:O	3:Xf:691:ILE:HG21	2.21	0.40
1:Li:44:GLY:O	3:Xi:691:ILE:HG21	2.21	0.40
2:Ph:28:TRP:HB3	2:Ph:35:ARG:HG2	2.03	0.40
1:BV:18:VAL:N	1:BV:19:PRO:CD	2.85	0.40
1:BV:79:HIS:HA	3:YZ:725:THR:O	2.20	0.40
1:EY:12:ILE:HG23	1:EY:75:LEU:CD1	2.51	0.40
1:FZ:20:ALA:HB1	1:FZ:48:VAL:CG2	2.52	0.40
1:NX:82:ALA:HB2	3:YW:716:PRO:HG3	2.03	0.40
1:NY:58:ASN:HA	1:NY:80:ILE:HD13	2.02	0.40
3:XW:647:GLN:H	3:XW:647:GLN:HG3	1.52	0.40
1:Fb:20:ALA:HB1	1:Fb:48:VAL:CG2	2.52	0.40
1:Ic:62:ARG:CG	3:Xc:730:PHE:HB2	2.51	0.40
1:KU:34:ARG:NH1	1:KU:36:VAL:HG12	2.37	0.40
1:Na:58:ASN:HA	1:Na:80:ILE:HD13	2.02	0.40
3:Yb:775:CYS:HA	3:Yb:793:CYS:HA	2.03	0.40
1:Bu:11:MET:HB3	1:It:18:VAL:CG2	2.46	0.40
1:Cv:46:VAL:CG2	1:Hu:41:VAL:HG13	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dx:28:THR:HG22	1:Ek:85:HIS:CD2	2.57	0.40
1:Dx:28:THR:HG23	1:Ek:87:GLU:OE1	2.22	0.40
1:Dx:97:GLN:CA	1:Ek:90:ASN:HB3	2.31	0.40
1:Gv:12:ILE:HG23	1:Gv:75:LEU:CD1	2.52	0.40
1:Gx:12:ILE:HG23	1:Gx:75:LEU:CD1	2.51	0.40
1:Hu:22:GLU:HG2	1:Hu:71:VAL:HG21	2.03	0.40
1:Jx:79:HIS:HA	3:Xl:628:THR:O	2.22	0.40
1:Kt:18:VAL:HG22	1:Nt:11:MET:HB3	2.03	0.40
1:Kt:34:ARG:NH1	1:Kt:36:VAL:HG12	2.37	0.40
1:Ku:34:ARG:NH1	1:Ku:36:VAL:HG12	2.37	0.40
1:Ow:85:HIS:CE1	1:Dw:83:ARG:HH22	2.40	0.40
3:Yu:734:ALA:O	3:Yu:735:ARG:C	2.64	0.40
1:Bk:61:VAL:O	1:Bk:61:VAL:HG12	2.20	0.40
1:Cm:46:VAL:CG2	1:Hl:41:VAL:HG13	2.52	0.40
1:Fo:18:VAL:N	1:Fo:19:PRO:CD	2.84	0.40
1:Gl:35:LEU:HA	1:Gl:50:VAL:HG12	2.04	0.40
1:Hl:22:GLU:HG2	1:Hl:71:VAL:HG21	2.03	0.40
1:Kn:34:ARG:NH1	1:Kn:36:VAL:HG12	2.37	0.40
2:Pm:39:VAL:HG23	2:Pn:1:MET:HE1	2.01	0.40
1:Cp:29:LYS:O	2:Pj:9:THR:CG2	2.70	0.40
1:Gj:13:GLU:OE2	1:Gj:45:TYR:HB3	2.21	0.40
1:Kp:7:ILE:HD12	1:Kp:83:ARG:CG	2.51	0.40
1:Kr:7:ILE:CD1	1:Kr:83:ARG:HD3	2.52	0.40
1:Ks:34:ARG:NH1	1:Ks:36:VAL:HG12	2.37	0.40
1:Nr:79:HIS:HA	3:Yq:714:THR:O	2.21	0.40
1:Dj:68:CYS:SG	1:Dj:75:LEU:HD13	2.62	0.40
1:E3:68:CYS:SG	1:E3:75:LEU:HB2	2.62	0.40
1:Fl:20:ALA:HB1	1:Fl:48:VAL:CG2	2.52	0.40
1:Km:34:ARG:NH1	1:Km:36:VAL:HG12	2.37	0.40
1:BB:18:VAL:N	1:BB:19:PRO:CD	2.85	0.40
1:DB:61:VAL:HG11	3:Xv:616:ILE:HD12	1.94	0.40
1:DC:85:HIS:CE1	1:FC:28:THR:HG22	2.56	0.40
1:DE:68:CYS:SG	1:DE:75:LEU:HD13	2.62	0.40
1:DE:85:HIS:CE1	1:FE:28:THR:HG22	2.56	0.40
1:EB:91:ILE:HG21	1:Du:35:LEU:HD23	2.03	0.40
1:ED:77:ALA:HB2	1:Dg:72:GLY:HA2	2.03	0.40
1:EE:12:ILE:HG23	1:EE:75:LEU:CD1	2.51	0.40
1:HA:54:THR:HG22	2:PE:13:THR:HB	2.04	0.40
1:KA:7:ILE:HD12	1:KA:83:ARG:CG	2.51	0.40
1:KB:7:ILE:CD1	1:KB:83:ARG:HD3	2.52	0.40
1:KB:62:ARG:HH22	3:YA:799:ASP:H	1.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:KD:34:ARG:NH1	1:KD:36:VAL:HG12	2.37	0.40
1:A3:70:ARG:HA	3:Y1:841:PRO:CG	2.51	0.40
1:D2:85:HIS:CE1	1:F2:28:THR:HG22	2.56	0.40
1:D5:68:CYS:SG	1:D5:75:LEU:HD13	2.62	0.40
1:F1:20:ALA:HB1	1:F1:48:VAL:CG2	2.52	0.40
1:H1:54:THR:HG22	2:P5:13:THR:HB	2.04	0.40
1:H3:54:THR:HG22	2:P2:13:THR:HB	2.04	0.40
1:B6:18:VAL:N	1:B6:19:PRO:CD	2.85	0.40
1:B8:14:THR:HB	1:B8:19:PRO:HB2	2.02	0.40
1:B8:18:VAL:N	1:B8:19:PRO:CD	2.85	0.40
1:B9:14:THR:HB	1:B9:19:PRO:HB2	2.02	0.40
1:E6:12:ILE:HG23	1:E6:75:LEU:CD1	2.51	0.40
1:F9:20:ALA:HB1	1:F9:48:VAL:CG2	2.52	0.40
1:K7:14:THR:HB	1:K7:19:PRO:HB2	2.03	0.40
1:K8:18:VAL:HG22	1:N8:11:MET:HB3	2.03	0.40
1:K9:14:THR:HB	1:K9:19:PRO:HB2	2.03	0.40
1:M7:31:ALA:C	1:Mw:83:ARG:HD2	2.44	0.40
2:P8:55:SER:HA	2:P8:70:ASP:HA	2.03	0.40
3:X6:724:ILE:H	3:X6:724:ILE:HG13	1.63	0.40
1:BR:18:VAL:N	1:BR:19:PRO:CD	2.85	0.40
1:FR:17:LEU:HD23	1:DR:47:THR:CG2	2.48	0.40
1:KP:14:THR:HB	1:KP:19:PRO:HB2	2.03	0.40
1:KS:7:ILE:CD1	1:KS:83:ARG:HD3	2.52	0.40
3:XT:643:TYR:CE2	1:Da:55:GLY:O	2.74	0.40
1:BH:18:VAL:N	1:BH:19:PRO:CD	2.85	0.40
1:CI:46:VAL:CG2	1:HH:41:VAL:HG13	2.52	0.40
1:DK:68:CYS:SG	1:DK:75:LEU:HD13	2.62	0.40
1:FH:12:ILE:HD12	1:FH:27:MET:SD	2.61	0.40
1:FI:20:ALA:HB1	1:FI:48:VAL:CG2	2.52	0.40
1:GI:92:LEU:O	1:GI:93:PRO:C	2.62	0.40
1:KG:7:ILE:HD12	1:KG:83:ARG:CG	2.51	0.40
1:KH:7:ILE:CD1	1:KH:83:ARG:HD3	2.52	0.40
1:KJ:34:ARG:NH1	1:KJ:36:VAL:HG12	2.37	0.40
1:NH:58:ASN:HA	1:NH:80:ILE:HD13	2.02	0.40
2:PH:39:VAL:HG21	2:PH:67:TYR:HE2	1.86	0.40
3:YI:702:ILE:HG12	1:EI:62:ARG:HG2	2.02	0.40
1:DN:68:CYS:SG	1:DN:75:LEU:HD13	2.62	0.40
1:FO:20:ALA:HB1	1:FO:48:VAL:CG2	2.52	0.40
1:GF:13:GLU:OE2	1:GF:45:TYR:HB3	2.21	0.40
1:GF:57:VAL:O	1:GF:61:VAL:HG23	2.21	0.40
1:GL:12:ILE:HG23	1:GL:75:LEU:CD1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:OO:79:HIS:HA	3:XO:714:THR:O	2.21	0.40
2:PF:69:SER:OG	2:PF:71:LEU:O	2.40	0.40
1:Ah:70:ARG:HA	3:Yf:841:PRO:CG	2.51	0.40
1:Bi:14:THR:HB	1:Bi:19:PRO:HB2	2.02	0.40
1:Ce:29:LYS:O	2:Pi:9:THR:CG2	2.70	0.40
1:Ee:87:GLU:OE1	1:Dc:28:THR:HG23	2.21	0.40
1:Eh:91:ILE:CG2	1:Dp:35:LEU:CD2	2.93	0.40
1:Ei:83:ARG:NH2	1:Ne:32:GLU:CD	2.79	0.40
1:Gf:35:LEU:HA	1:Gf:50:VAL:HG12	2.04	0.40
1:Hg:22:GLU:HG2	1:Hg:71:VAL:HG21	2.03	0.40
1:Kh:7:ILE:CD1	1:Kh:83:ARG:HD3	2.52	0.40
1:Ne:58:ASN:HA	1:Ne:80:ILE:HD13	2.02	0.40
2:Pf:14:ASN:ND2	2:Pg:42:ILE:HG21	2.36	0.40
3:Yi:775:CYS:HA	3:Yi:793:CYS:HA	2.03	0.40
1:DW:18:VAL:CG2	1:Ej:11:MET:HB3	2.52	0.40
1:DW:68:CYS:SG	1:DW:75:LEU:HD13	2.62	0.40
1:DX:59:ALA:N	3:Xo:643:TYR:CD1	2.89	0.40
1:EY:85:HIS:CE1	1:DI:28:THR:HG22	2.56	0.40
1:KV:34:ARG:NH1	1:KV:36:VAL:HG12	2.37	0.40
1:KX:7:ILE:HD12	1:KX:83:ARG:CG	2.51	0.40
1:KX:7:ILE:CD1	1:KX:83:ARG:HD3	2.52	0.40
1:KX:14:THR:HB	1:KX:19:PRO:HB2	2.03	0.40
1:NV:58:ASN:HA	1:NV:80:ILE:HD13	2.02	0.40
2:PZ:53:VAL:O	2:PZ:71:LEU:HA	2.22	0.40
3:XZ:643:TYR:O	1:DI:58:ASN:OD1	2.40	0.40
1:BU:14:THR:HB	1:BU:19:PRO:HB2	2.02	0.40
1:BU:18:VAL:N	1:BU:19:PRO:CD	2.85	0.40
1:BU:41:VAL:HG13	1:Id:40:PHE:CD1	2.56	0.40
1:Ba:11:MET:HB3	1:IU:18:VAL:CG2	2.48	0.40
1:Bb:18:VAL:N	1:Bb:19:PRO:CD	2.85	0.40
1:Bd:18:VAL:N	1:Bd:19:PRO:CD	2.85	0.40
1:Ca:29:LYS:O	2:PU:9:THR:CG2	2.70	0.40
1:Fd:20:ALA:HB1	1:Fd:48:VAL:CG2	2.52	0.40
1:Kc:7:ILE:CD1	1:Kc:83:ARG:HD3	2.52	0.40
1:Kd:7:ILE:CD1	1:Kd:83:ARG:HD3	2.52	0.40
1:Kd:34:ARG:NH1	1:Kd:36:VAL:HG12	2.37	0.40
2:Pd:10:LEU:HD21	2:PU:77:ILE:HG12	2.02	0.40
1:Bu:18:VAL:N	1:Bu:19:PRO:CD	2.85	0.40
1:Bv:61:VAL:O	1:Bv:61:VAL:HG12	2.20	0.40
1:Bw:18:VAL:N	1:Bw:19:PRO:CD	2.85	0.40
1:Ct:29:LYS:CE	2:Px:45:ILE:HG22	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Dx:18:VAL:CG2	1:Ek:11:MET:HB3	2.51	0.40
1:Dx:68:CYS:SG	1:Dx:75:LEU:HD13	2.62	0.40
1:Ft:20:ALA:HB1	1:Ft:48:VAL:CG2	2.52	0.40
1:Fw:20:ALA:HB1	1:Fw:48:VAL:CG2	2.52	0.40
1:Kt:7:ILE:CD1	1:Kt:83:ARG:HD3	2.52	0.40
1:Ku:14:THR:HB	1:Ku:19:PRO:HB2	2.03	0.40
1:Kv:14:THR:HB	1:Kv:19:PRO:HB2	2.03	0.40
3:Yw:775:CYS:HA	3:Yw:793:CYS:HA	2.03	0.40
1:Bl:61:VAL:O	1:Bl:61:VAL:HG12	2.20	0.40
1:Bm:14:THR:HB	1:Bm:19:PRO:HB2	2.02	0.40
1:Bo:14:THR:HB	1:Bo:19:PRO:HB2	2.02	0.40
1:Ck:29:LYS:O	2:Po:9:THR:CG2	2.70	0.40
1:Hm:22:GLU:HG2	1:Hm:71:VAL:HG21	2.03	0.40
1:Ko:34:ARG:NH1	1:Ko:36:VAL:HG12	2.37	0.40
1:Cr:46:VAL:CG2	1:Hq:41:VAL:HG13	2.52	0.40
1:Dr:68:CYS:SG	1:Dr:75:LEU:HD13	2.62	0.40
1:Fj:18:VAL:N	1:Fj:19:PRO:CD	2.84	0.40
1:Gs:12:ILE:HG23	1:Gs:75:LEU:CD1	2.51	0.40
1:Kp:7:ILE:CD1	1:Kp:83:ARG:HD3	2.52	0.40
1:Nq:58:ASN:HA	1:Nq:80:ILE:HD13	2.02	0.40
2:Ps:42:ILE:HD12	3:Yq:851:SER:HB3	2.04	0.40
3:X7:618:GLY:HA3	1:DM:80:ILE:O	2.21	0.40
1:Fq:20:ALA:HB1	1:Fq:48:VAL:CG2	2.52	0.40
1:DJ:11:MET:CE	1:DJ:79:HIS:CG	3.04	0.40
1:DI:68:CYS:SG	1:DI:75:LEU:HD13	2.62	0.40
1:D6:62:ARG:HD3	3:XN:642:ALA:O	2.22	0.40
1:Df:19:PRO:HG3	1:Df:72:GLY:HA3	2.04	0.40
1:KI:34:ARG:NH1	1:KI:36:VAL:HG12	2.37	0.40
1:AC:18:VAL:N	1:AC:19:PRO:CD	2.85	0.40
1:AD:18:VAL:N	1:AD:19:PRO:CD	2.85	0.40
1:AD:70:ARG:HA	3:YB:841:PRO:CG	2.51	0.40
1:BD:11:MET:HB3	1:IC:18:VAL:CG2	2.45	0.40
1:BD:61:VAL:HG12	1:BD:61:VAL:O	2.20	0.40
1:DA:28:THR:CG2	1:E8:85:HIS:CE1	3.04	0.40
1:DC:68:CYS:SG	1:DC:75:LEU:HD13	2.62	0.40
1:DE:28:THR:HG22	1:E1:85:HIS:CD2	2.57	0.40
1:EE:91:ILE:CG2	1:D1:35:LEU:CD2	2.97	0.40
1:FC:20:ALA:HB1	1:FC:48:VAL:CG2	2.52	0.40
1:FD:29:LYS:NZ	1:DD:83:ARG:O	2.47	0.40
1:KA:35:LEU:HD12	1:KA:35:LEU:HA	1.97	0.40
1:KC:7:ILE:CD1	1:KC:83:ARG:HD3	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:PC:59:ARG:NH2	2:PD:57:ALA:HA	2.36	0.40
2:PD:14:ASN:HD21	2:PE:76:ILE:HG13	1.86	0.40
3:YD:775:CYS:HA	3:YD:793:CYS:HA	2.03	0.40
1:A3:18:VAL:N	1:A3:19:PRO:CD	2.85	0.40
1:C1:29:LYS:CE	2:P5:45:ILE:HG22	2.52	0.40
1:D1:85:HIS:CE1	1:F1:28:THR:HG22	2.56	0.40
1:E2:77:ALA:CB	1:Df:18:VAL:HG11	2.52	0.40
1:G1:12:ILE:HG23	1:G1:75:LEU:CD1	2.51	0.40
1:G2:11:MET:HE3	1:G2:79:HIS:HB3	2.03	0.40
1:J5:62:ARG:HD3	3:X0:620:SER:O	2.22	0.40
1:K1:62:ARG:HH22	3:Y5:799:ASP:H	1.69	0.40
1:K2:34:ARG:NH1	1:K2:36:VAL:HG12	2.37	0.40
1:L4:79:HIS:HA	3:X4:639:SER:O	2.20	0.40
1:L4:83:ARG:CZ	1:Db:32:GLU:HA	2.51	0.40
1:N3:82:ALA:HB2	3:Y2:716:PRO:HG3	2.03	0.40
2:P3:39:VAL:HG21	2:P3:67:TYR:CE1	2.56	0.40
1:A8:70:ARG:HA	3:Y6:841:PRO:CG	2.51	0.40
1:B7:61:VAL:O	1:B7:61:VAL:HG12	2.20	0.40
1:D0:38:ARG:HG2	1:D0:39:GLN:N	2.37	0.40
1:E7:12:ILE:HG23	1:E7:75:LEU:CD1	2.51	0.40
1:K6:7:ILE:CD1	1:K6:83:ARG:HD3	2.52	0.40
1:K8:34:ARG:NH1	1:K8:36:VAL:HG12	2.37	0.40
1:N8:79:HIS:HA	3:Y7:714:THR:O	2.21	0.40
1:AP:18:VAL:N	1:AP:19:PRO:CD	2.85	0.40
1:BS:61:VAL:HG12	1:BS:61:VAL:O	2.20	0.40
1:BT:14:THR:HB	1:BT:19:PRO:HB2	2.02	0.40
1:DT:28:THR:HG23	1:EG:87:GLU:OE1	2.22	0.40
1:KP:7:ILE:CD1	1:KP:83:ARG:HD3	2.52	0.40
1:KQ:58:ASN:OD1	3:YP:802:VAL:HG13	2.20	0.40
1:KR:18:VAL:HG22	1:NR:11:MET:HB3	2.04	0.40
1:KT:18:VAL:HG22	1:NT:11:MET:HB3	2.03	0.40
1:KT:34:ARG:NH1	1:KT:36:VAL:HG12	2.37	0.40
1:BJ:14:THR:HB	1:BJ:19:PRO:HB2	2.02	0.40
1:EK:12:ILE:HG23	1:EK:75:LEU:CD1	2.51	0.40
1:OK:92:LEU:HD23	1:OK:92:LEU:HA	1.94	0.40
2:PG:42:ILE:HG21	2:PK:14:ASN:ND2	2.37	0.40
2:PI:39:VAL:HG21	2:PI:67:TYR:CE1	2.56	0.40
3:XG:624:SER:HB2	1:JO:62:ARG:CZ	2.51	0.40
3:YJ:775:CYS:HA	3:YJ:793:CYS:HA	2.03	0.40
1:AO:70:ARG:HA	3:YM:841:PRO:CG	2.51	0.40
1:BL:18:VAL:N	1:BL:19:PRO:CD	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BN:14:THR:HB	1:BN:19:PRO:HB2	2.03	0.40
1:DL:58:ASN:ND2	3:Xx:621:VAL:HG21	2.35	0.40
1:GM:12:ILE:HG23	1:GM:75:LEU:CD1	2.51	0.40
1:GO:12:ILE:HG23	1:GO:75:LEU:CD1	2.51	0.40
1:HN:80:ILE:CD1	3:YL:848:ILE:CG2	2.95	0.40
1:KF:34:ARG:NH1	1:KF:36:VAL:HG12	2.37	0.40
1:Be:61:VAL:HG12	1:Be:61:VAL:O	2.21	0.40
1:Bi:61:VAL:O	1:Bi:61:VAL:CG1	2.70	0.40
1:Fi:12:ILE:HD12	1:Fi:27:MET:SD	2.61	0.40
1:Fi:20:ALA:HB1	1:Fi:48:VAL:CG2	2.52	0.40
1:Gf:68:CYS:HA	1:Gf:71:VAL:HG12	2.04	0.40
1:Ke:7:ILE:HD12	1:Ke:83:ARG:CG	2.51	0.40
1:Ki:62:ARG:HA	3:Yh:806:ILE:HD11	2.03	0.40
1:AV:18:VAL:N	1:AV:19:PRO:CD	2.85	0.40
1:AX:87:GLU:HB2	1:BX:28:THR:HG21	2.03	0.40
1:BZ:18:VAL:N	1:BZ:19:PRO:CD	2.85	0.40
1:DV:68:CYS:SG	1:DV:75:LEU:HD13	2.62	0.40
1:HX:80:ILE:CD1	3:YV:848:ILE:CG2	2.95	0.40
1:HZ:80:ILE:CD1	3:YX:848:ILE:CG2	2.99	0.40
1:KX:34:ARG:NH1	1:KX:36:VAL:HG12	2.37	0.40
1:KY:35:LEU:HD12	1:KY:35:LEU:HA	1.97	0.40
1:KY:62:ARG:HH22	3:YX:799:ASP:H	1.69	0.40
2:PX:39:VAL:HG21	2:PX:67:TYR:CE1	2.56	0.40
2:PY:53:VAL:HB	2:PY:74:ILE:HD13	2.03	0.40
2:PZ:39:VAL:HG21	2:PZ:67:TYR:CE1	2.56	0.40
1:AU:18:VAL:N	1:AU:19:PRO:CD	2.85	0.40
1:CU:30:ALA:HA	2:Pd:23:PRO:HB3	2.04	0.40
1:Ca:29:LYS:CE	2:PU:45:ILE:HG22	2.52	0.40
1:Hc:22:GLU:HG2	1:Hc:71:VAL:HG21	2.03	0.40
1:Ka:62:ARG:HH22	3:YU:799:ASP:H	1.69	0.40
1:Kb:7:ILE:HD12	1:Kb:83:ARG:CG	2.51	0.40
1:Kd:14:THR:HB	1:Kd:19:PRO:HB2	2.03	0.40
3:YU:727:THR:O	3:YU:728:PRO:C	2.63	0.40
1:Au:18:VAL:N	1:Au:19:PRO:CD	2.85	0.40
1:Dx:19:PRO:HG3	1:Dx:72:GLY:HA3	2.04	0.40
1:Et:12:ILE:HG23	1:Et:75:LEU:CD1	2.51	0.40
1:Ev:85:HIS:CD2	1:D7:29:LYS:HG3	2.57	0.40
1:Gu:11:MET:HE3	1:Gu:79:HIS:HB3	2.03	0.40
1:Hx:22:GLU:HG2	1:Hx:71:VAL:HG21	2.03	0.40
1:Kx:7:ILE:CD1	1:Kx:83:ARG:HD3	2.52	0.40
1:Lw:44:GLY:O	3:Xw:691:ILE:HG21	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Px:39:VAL:HG21	2:Px:67:TYR:HE1	1.85	0.40
1:Bo:61:VAL:O	1:Bo:61:VAL:CG1	2.70	0.40
1:Ck:29:LYS:CE	2:Po:45:ILE:HG22	2.51	0.40
1:Co:62:ARG:HD2	2:Pn:21:HIS:CE1	2.56	0.40
1:Dm:68:CYS:SG	1:Dm:75:LEU:HD13	2.62	0.40
1:Eo:83:ARG:NH2	1:Nk:32:GLU:CD	2.79	0.40
1:Gk:79:HIS:ND1	3:Yo:786:SER:HB2	2.36	0.40
1:Gl:68:CYS:HA	1:Gl:71:VAL:HG12	2.04	0.40
2:Pm:65:LYS:HE2	2:Pm:65:LYS:HB3	1.89	0.40
2:Pn:42:ILE:HD12	3:Yl:851:SER:HB3	2.04	0.40
1:Bj:18:VAL:N	1:Bj:19:PRO:CD	2.85	0.40
1:Bj:47:THR:HG21	1:Is:18:VAL:CG2	2.45	0.40
1:Cp:29:LYS:CE	2:Pj:45:ILE:HG22	2.52	0.40
1:Ds:68:CYS:SG	1:Ds:75:LEU:HD13	2.62	0.40
1:Gp:12:ILE:HG23	1:Gp:75:LEU:CD1	2.51	0.40
1:Kp:14:THR:HB	1:Kp:19:PRO:HB2	2.03	0.40
1:Kp:34:ARG:NH1	1:Kp:36:VAL:HG12	2.37	0.40
1:Kq:62:ARG:HH22	3:Yp:799:ASP:H	1.70	0.40
1:Oj:92:LEU:HD23	1:Oj:92:LEU:HA	1.94	0.40
3:XD:617:SER:HB2	1:Dq:79:HIS:HA	2.02	0.40
1:EI:12:ILE:HG23	1:EI:75:LEU:CD1	2.51	0.40
1:FL:12:ILE:HD12	1:FL:27:MET:SD	2.61	0.40
1:LN:80:ILE:HD11	3:XN:638:ILE:HG21	2.04	0.40
1:DY:41:VAL:HB	1:DY:45:TYR:HB2	2.04	0.40
3:Y3:734:ALA:O	3:Y3:735:ARG:C	2.64	0.40
1:KI:7:ILE:CD1	1:KI:83:ARG:HD3	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A0	90/98 (92%)	90 (100%)	0	0	100	100
1	A1	90/98 (92%)	90 (100%)	0	0	100	100
1	A2	90/98 (92%)	90 (100%)	0	0	100	100
1	A3	90/98 (92%)	90 (100%)	0	0	100	100
1	A4	90/98 (92%)	90 (100%)	0	0	100	100
1	A5	90/98 (92%)	90 (100%)	0	0	100	100
1	A6	90/98 (92%)	90 (100%)	0	0	100	100
1	A7	90/98 (92%)	90 (100%)	0	0	100	100
1	A8	90/98 (92%)	90 (100%)	0	0	100	100
1	A9	90/98 (92%)	90 (100%)	0	0	100	100
1	AA	90/98 (92%)	90 (100%)	0	0	100	100
1	AB	90/98 (92%)	90 (100%)	0	0	100	100
1	AC	90/98 (92%)	90 (100%)	0	0	100	100
1	AD	90/98 (92%)	90 (100%)	0	0	100	100
1	AE	90/98 (92%)	90 (100%)	0	0	100	100
1	AF	90/98 (92%)	90 (100%)	0	0	100	100
1	AG	90/98 (92%)	90 (100%)	0	0	100	100
1	AH	90/98 (92%)	90 (100%)	0	0	100	100
1	AI	90/98 (92%)	90 (100%)	0	0	100	100
1	AJ	90/98 (92%)	90 (100%)	0	0	100	100
1	AK	90/98 (92%)	90 (100%)	0	0	100	100
1	AL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	AM	90/98 (92%)	90 (100%)	0	0	100	100
1	AN	90/98 (92%)	90 (100%)	0	0	100	100
1	AO	90/98 (92%)	90 (100%)	0	0	100	100
1	AP	90/98 (92%)	90 (100%)	0	0	100	100
1	AQ	90/98 (92%)	90 (100%)	0	0	100	100
1	AR	90/98 (92%)	90 (100%)	0	0	100	100
1	AS	90/98 (92%)	90 (100%)	0	0	100	100
1	AT	90/98 (92%)	90 (100%)	0	0	100	100
1	AU	90/98 (92%)	90 (100%)	0	0	100	100
1	AV	90/98 (92%)	90 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AW	90/98 (92%)	90 (100%)	0	0	100	100
1	AX	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	AY	90/98 (92%)	90 (100%)	0	0	100	100
1	AZ	90/98 (92%)	90 (100%)	0	0	100	100
1	Aa	90/98 (92%)	90 (100%)	0	0	100	100
1	Ab	90/98 (92%)	90 (100%)	0	0	100	100
1	Ac	90/98 (92%)	90 (100%)	0	0	100	100
1	Ad	90/98 (92%)	90 (100%)	0	0	100	100
1	Ae	90/98 (92%)	90 (100%)	0	0	100	100
1	Af	90/98 (92%)	90 (100%)	0	0	100	100
1	Ag	90/98 (92%)	90 (100%)	0	0	100	100
1	Ah	90/98 (92%)	90 (100%)	0	0	100	100
1	Ai	90/98 (92%)	90 (100%)	0	0	100	100
1	Aj	90/98 (92%)	90 (100%)	0	0	100	100
1	Ak	90/98 (92%)	90 (100%)	0	0	100	100
1	Al	90/98 (92%)	90 (100%)	0	0	100	100
1	Am	90/98 (92%)	90 (100%)	0	0	100	100
1	An	90/98 (92%)	90 (100%)	0	0	100	100
1	Ao	90/98 (92%)	90 (100%)	0	0	100	100
1	Ap	90/98 (92%)	90 (100%)	0	0	100	100
1	Aq	90/98 (92%)	90 (100%)	0	0	100	100
1	Ar	90/98 (92%)	90 (100%)	0	0	100	100
1	As	90/98 (92%)	90 (100%)	0	0	100	100
1	At	90/98 (92%)	90 (100%)	0	0	100	100
1	Au	90/98 (92%)	90 (100%)	0	0	100	100
1	Av	90/98 (92%)	90 (100%)	0	0	100	100
1	Aw	90/98 (92%)	90 (100%)	0	0	100	100
1	Ax	90/98 (92%)	90 (100%)	0	0	100	100
1	B0	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	B1	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	B2	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B3	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	B4	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	B5	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	B6	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	B7	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	B8	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	B9	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BA	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BB	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BC	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BD	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BE	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BF	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BG	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BH	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BI	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BJ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BK	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BM	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BN	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BO	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BP	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BQ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BR	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BS	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BT	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BU	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BV	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BW	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BX	87/98 (89%)	86 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BY	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	BZ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ba	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bb	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bc	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bd	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Be	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bf	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bg	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bh	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bi	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bj	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bk	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bl	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bm	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bn	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bo	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bp	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bq	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Br	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bs	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bt	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bu	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bv	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bw	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Bx	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	C0	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	C1	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	C2	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	C3	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	C4	90/98 (92%)	87 (97%)	3 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C5	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	C6	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	C7	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	C8	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	C9	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	CA	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CB	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CC	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CD	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CE	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	CF	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	CG	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CH	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CI	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CJ	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CK	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	CL	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CM	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CN	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CO	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CP	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CQ	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CR	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CS	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CT	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	CU	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	CV	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CW	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CX	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CY	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	CZ	90/98 (92%)	88 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Ca	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cb	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cc	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cd	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Ce	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cf	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cg	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Ch	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Ci	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Cj	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Ck	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cl	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cm	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cn	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Co	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Cp	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cq	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cr	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cs	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Ct	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cu	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cv	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cw	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	Cx	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	D0	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	D1	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	D2	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	D3	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	D4	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	D5	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	D6	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D7	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	D8	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	D9	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DA	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DB	90/98 (92%)	90 (100%)	0	0	100	100
1	DC	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DD	90/98 (92%)	90 (100%)	0	0	100	100
1	DE	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DF	87/98 (89%)	86 (99%)	1 (1%)	0	100	100
1	DG	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DH	90/98 (92%)	90 (100%)	0	0	100	100
1	DI	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DJ	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	DK	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DM	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DN	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DO	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DP	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DQ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DR	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DS	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	DT	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DU	90/98 (92%)	87 (97%)	3 (3%)	0	100	100
1	DV	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DW	87/98 (89%)	86 (99%)	1 (1%)	0	100	100
1	DX	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	DY	90/98 (92%)	90 (100%)	0	0	100	100
1	DZ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Da	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Db	90/98 (92%)	90 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Dc	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dd	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	De	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Df	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dg	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dh	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Di	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dj	87/98 (89%)	86 (99%)	1 (1%)	0	100	100
1	Dk	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dl	87/98 (89%)	85 (98%)	2 (2%)	0	100	100
1	Dm	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dn	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Do	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dp	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dq	90/98 (92%)	90 (100%)	0	0	100	100
1	Dr	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ds	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dt	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Du	87/98 (89%)	86 (99%)	1 (1%)	0	100	100
1	Dv	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Dw	90/98 (92%)	90 (100%)	0	0	100	100
1	Dx	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	E0	90/98 (92%)	90 (100%)	0	0	100	100
1	E1	90/98 (92%)	90 (100%)	0	0	100	100
1	E2	90/98 (92%)	90 (100%)	0	0	100	100
1	E3	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	E4	90/98 (92%)	90 (100%)	0	0	100	100
1	E5	90/98 (92%)	90 (100%)	0	0	100	100
1	E6	90/98 (92%)	90 (100%)	0	0	100	100
1	E7	90/98 (92%)	90 (100%)	0	0	100	100
1	E8	90/98 (92%)	90 (100%)	0	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E9	90/98 (92%)	90 (100%)	0	0	100	100
1	EA	90/98 (92%)	90 (100%)	0	0	100	100
1	EB	90/98 (92%)	90 (100%)	0	0	100	100
1	EC	90/98 (92%)	90 (100%)	0	0	100	100
1	ED	90/98 (92%)	90 (100%)	0	0	100	100
1	EE	90/98 (92%)	90 (100%)	0	0	100	100
1	EF	87/98 (89%)	87 (100%)	0	0	100	100
1	EG	90/98 (92%)	90 (100%)	0	0	100	100
1	EH	90/98 (92%)	90 (100%)	0	0	100	100
1	EI	90/98 (92%)	90 (100%)	0	0	100	100
1	EJ	90/98 (92%)	90 (100%)	0	0	100	100
1	EK	90/98 (92%)	90 (100%)	0	0	100	100
1	EL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	EM	90/98 (92%)	90 (100%)	0	0	100	100
1	EN	90/98 (92%)	90 (100%)	0	0	100	100
1	EO	90/98 (92%)	90 (100%)	0	0	100	100
1	EP	90/98 (92%)	90 (100%)	0	0	100	100
1	EQ	90/98 (92%)	90 (100%)	0	0	100	100
1	ER	90/98 (92%)	90 (100%)	0	0	100	100
1	ES	90/98 (92%)	90 (100%)	0	0	100	100
1	ET	90/98 (92%)	90 (100%)	0	0	100	100
1	EU	90/98 (92%)	90 (100%)	0	0	100	100
1	EV	90/98 (92%)	90 (100%)	0	0	100	100
1	EW	87/98 (89%)	87 (100%)	0	0	100	100
1	EX	90/98 (92%)	90 (100%)	0	0	100	100
1	EY	90/98 (92%)	90 (100%)	0	0	100	100
1	EZ	90/98 (92%)	90 (100%)	0	0	100	100
1	Ea	90/98 (92%)	90 (100%)	0	0	100	100
1	Eb	90/98 (92%)	90 (100%)	0	0	100	100
1	Ec	90/98 (92%)	90 (100%)	0	0	100	100
1	Ed	90/98 (92%)	90 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Ee	90/98 (92%)	90 (100%)	0	0	100	100
1	Ef	90/98 (92%)	90 (100%)	0	0	100	100
1	Eg	90/98 (92%)	90 (100%)	0	0	100	100
1	Eh	90/98 (92%)	90 (100%)	0	0	100	100
1	Ei	90/98 (92%)	90 (100%)	0	0	100	100
1	Ej	90/98 (92%)	90 (100%)	0	0	100	100
1	Ek	90/98 (92%)	90 (100%)	0	0	100	100
1	El	87/98 (89%)	86 (99%)	1 (1%)	0	100	100
1	Em	90/98 (92%)	90 (100%)	0	0	100	100
1	En	90/98 (92%)	90 (100%)	0	0	100	100
1	Eo	90/98 (92%)	90 (100%)	0	0	100	100
1	Ep	90/98 (92%)	90 (100%)	0	0	100	100
1	Eq	90/98 (92%)	90 (100%)	0	0	100	100
1	Er	90/98 (92%)	90 (100%)	0	0	100	100
1	Es	90/98 (92%)	90 (100%)	0	0	100	100
1	Et	90/98 (92%)	90 (100%)	0	0	100	100
1	Eu	90/98 (92%)	90 (100%)	0	0	100	100
1	Ev	90/98 (92%)	90 (100%)	0	0	100	100
1	Ew	90/98 (92%)	90 (100%)	0	0	100	100
1	Ex	90/98 (92%)	90 (100%)	0	0	100	100
1	F0	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F1	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F2	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F3	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F4	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F5	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F6	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F7	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F8	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	F9	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FA	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	FB	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FC	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FD	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FE	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FF	87/98 (89%)	85 (98%)	2 (2%)	0	100	100
1	FG	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FH	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FI	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	FJ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FK	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FM	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FN	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FO	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FP	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FQ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FR	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FS	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FT	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FU	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FV	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FW	87/98 (89%)	86 (99%)	1 (1%)	0	100	100
1	FX	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FY	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	FZ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fa	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fb	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fc	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fd	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fe	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ff	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Fg	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fh	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fi	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fj	87/98 (89%)	86 (99%)	1 (1%)	0	100	100
1	Fk	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fl	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fm	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fn	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fo	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fp	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fq	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fr	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fs	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ft	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fu	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fv	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fw	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Fx	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G0	90/98 (92%)	90 (100%)	0	0	100	100
1	G1	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G2	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G3	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G4	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G5	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G6	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G7	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G8	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	G9	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GA	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GB	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GC	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	GD	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GE	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GF	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GG	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GH	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GI	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GJ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GK	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GM	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GN	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GO	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GP	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GQ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GR	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GS	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GT	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GU	90/98 (92%)	90 (100%)	0	0	100	100
1	GV	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GW	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GX	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GY	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	GZ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ga	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gb	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gc	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gd	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ge	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gf	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gg	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gh	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Gi	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gj	87/98 (89%)	87 (100%)	0	0	100	100
1	Gk	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gl	87/98 (89%)	86 (99%)	1 (1%)	0	100	100
1	Gm	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gn	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Go	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gp	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gq	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gr	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gs	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gt	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gu	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gv	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Gw	90/98 (92%)	90 (100%)	0	0	100	100
1	Gx	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	H0	90/98 (92%)	90 (100%)	0	0	100	100
1	H1	90/98 (92%)	90 (100%)	0	0	100	100
1	H2	90/98 (92%)	90 (100%)	0	0	100	100
1	H3	90/98 (92%)	90 (100%)	0	0	100	100
1	H4	90/98 (92%)	90 (100%)	0	0	100	100
1	H5	90/98 (92%)	90 (100%)	0	0	100	100
1	H6	90/98 (92%)	90 (100%)	0	0	100	100
1	H7	90/98 (92%)	90 (100%)	0	0	100	100
1	H8	90/98 (92%)	90 (100%)	0	0	100	100
1	H9	90/98 (92%)	90 (100%)	0	0	100	100
1	HA	90/98 (92%)	90 (100%)	0	0	100	100
1	HB	90/98 (92%)	90 (100%)	0	0	100	100
1	HC	90/98 (92%)	90 (100%)	0	0	100	100
1	HD	90/98 (92%)	90 (100%)	0	0	100	100
1	HE	90/98 (92%)	90 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	HF	90/98 (92%)	90 (100%)	0	0	100	100
1	HG	90/98 (92%)	90 (100%)	0	0	100	100
1	HH	90/98 (92%)	90 (100%)	0	0	100	100
1	HI	90/98 (92%)	90 (100%)	0	0	100	100
1	HJ	90/98 (92%)	90 (100%)	0	0	100	100
1	HK	90/98 (92%)	90 (100%)	0	0	100	100
1	HL	90/98 (92%)	90 (100%)	0	0	100	100
1	HM	90/98 (92%)	90 (100%)	0	0	100	100
1	HN	90/98 (92%)	90 (100%)	0	0	100	100
1	HO	90/98 (92%)	90 (100%)	0	0	100	100
1	HP	90/98 (92%)	90 (100%)	0	0	100	100
1	HQ	90/98 (92%)	90 (100%)	0	0	100	100
1	HR	90/98 (92%)	90 (100%)	0	0	100	100
1	HS	90/98 (92%)	90 (100%)	0	0	100	100
1	HT	90/98 (92%)	90 (100%)	0	0	100	100
1	HU	90/98 (92%)	90 (100%)	0	0	100	100
1	HV	90/98 (92%)	90 (100%)	0	0	100	100
1	HW	90/98 (92%)	90 (100%)	0	0	100	100
1	HX	90/98 (92%)	90 (100%)	0	0	100	100
1	HY	90/98 (92%)	90 (100%)	0	0	100	100
1	HZ	90/98 (92%)	90 (100%)	0	0	100	100
1	Ha	90/98 (92%)	90 (100%)	0	0	100	100
1	Hb	90/98 (92%)	90 (100%)	0	0	100	100
1	Hc	90/98 (92%)	90 (100%)	0	0	100	100
1	Hd	90/98 (92%)	90 (100%)	0	0	100	100
1	He	90/98 (92%)	90 (100%)	0	0	100	100
1	Hf	90/98 (92%)	90 (100%)	0	0	100	100
1	Hg	90/98 (92%)	90 (100%)	0	0	100	100
1	Hh	90/98 (92%)	90 (100%)	0	0	100	100
1	Hi	90/98 (92%)	90 (100%)	0	0	100	100
1	Hj	90/98 (92%)	90 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Hk	90/98 (92%)	90 (100%)	0	0	100	100
1	Hl	90/98 (92%)	90 (100%)	0	0	100	100
1	Hm	90/98 (92%)	90 (100%)	0	0	100	100
1	Hn	90/98 (92%)	90 (100%)	0	0	100	100
1	Ho	90/98 (92%)	90 (100%)	0	0	100	100
1	Hp	90/98 (92%)	90 (100%)	0	0	100	100
1	Hq	90/98 (92%)	90 (100%)	0	0	100	100
1	Hr	90/98 (92%)	90 (100%)	0	0	100	100
1	Hs	90/98 (92%)	90 (100%)	0	0	100	100
1	Ht	90/98 (92%)	90 (100%)	0	0	100	100
1	Hu	90/98 (92%)	90 (100%)	0	0	100	100
1	Hv	90/98 (92%)	90 (100%)	0	0	100	100
1	Hw	90/98 (92%)	90 (100%)	0	0	100	100
1	Hx	90/98 (92%)	90 (100%)	0	0	100	100
1	I0	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I1	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I2	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I3	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I4	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I5	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I6	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I7	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I8	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	I9	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IA	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IB	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IC	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	ID	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IE	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IF	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IG	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	IH	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	II	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IJ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IK	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IM	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IN	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IO	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IP	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IQ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IR	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IS	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IT	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IU	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IV	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IW	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IX	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IY	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	IZ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ia	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ib	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ic	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Id	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ie	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	If	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ig	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ih	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ii	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ij	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ik	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Il	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Im	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	In	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Io	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ip	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Iq	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ir	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Is	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	It	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Iu	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Iv	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Iw	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ix	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J0	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J1	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J2	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J3	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	J4	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J5	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J6	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J7	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J8	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	J9	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JA	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JB	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JC	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JD	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JE	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JF	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JG	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JH	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JI	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	JJ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JK	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JM	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JN	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JO	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JP	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JQ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JR	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JS	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JT	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JU	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JV	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JW	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JX	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JY	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	JZ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ja	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jb	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jc	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jd	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Je	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jf	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jg	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jh	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ji	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jj	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jk	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jl	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jm	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jn	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Jo	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jp	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jq	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jr	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Js	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jt	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ju	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jv	90/98 (92%)	90 (100%)	0	0	100	100
1	Jw	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Jx	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K0	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K1	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K2	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K3	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K4	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K5	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K6	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K7	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K8	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	K9	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KA	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KB	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KC	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KD	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KE	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KF	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KG	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KH	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KI	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KJ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KK	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	KL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KM	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KN	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KO	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KP	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KQ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KR	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KS	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KT	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KU	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KV	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KW	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KX	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KY	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	KZ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ka	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kb	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kc	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kd	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ke	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kf	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kg	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kh	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ki	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kj	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kk	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kl	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Km	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kn	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ko	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kp	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Kq	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kr	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ks	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kt	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ku	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kv	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kw	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Kx	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	L0	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L1	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L2	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L3	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L4	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L5	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L6	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L7	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L8	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	L9	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LA	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LB	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LC	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LD	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LE	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LF	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LG	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LH	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LI	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LJ	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LK	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LL	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LM	90/98 (92%)	88 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	LN	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LO	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LP	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LQ	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LR	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LS	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LT	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LU	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LV	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LW	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LX	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LY	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	LZ	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	La	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lb	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lc	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Ld	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Le	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lf	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lg	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lh	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Li	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lj	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lk	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Ll	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lm	90/98 (92%)	90 (100%)	0	0	100	100
1	Ln	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lo	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lp	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lq	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lr	90/98 (92%)	88 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Ls	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lt	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lu	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lv	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lw	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Lx	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M0	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M1	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M2	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M3	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M4	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M5	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M6	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M7	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M8	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	M9	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MA	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MB	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MC	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MD	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	ME	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MF	90/98 (92%)	90 (100%)	0	0	100	100
1	MG	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MH	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MI	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MJ	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MK	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	ML	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MM	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MN	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MO	90/98 (92%)	88 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	MP	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MQ	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MR	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MS	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MT	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MU	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MV	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MW	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MX	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MY	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	MZ	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Ma	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mb	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mc	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Md	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Me	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mf	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mg	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mh	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mi	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mj	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mk	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Ml	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mm	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mn	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mo	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mp	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mq	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mr	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Ms	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mt	90/98 (92%)	88 (98%)	2 (2%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Mu	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mv	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mw	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	Mx	90/98 (92%)	88 (98%)	2 (2%)	0	100	100
1	N0	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N1	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N2	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N3	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N4	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N5	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N6	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N7	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N8	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	N9	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NA	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NB	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NC	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	ND	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NE	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NF	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NG	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NH	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NI	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NJ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NK	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NL	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NM	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NN	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NO	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NP	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NQ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	NR	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NS	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NT	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NU	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NV	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NW	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NX	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NY	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	NZ	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Na	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nb	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nc	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nd	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ne	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nf	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ng	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nh	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ni	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nj	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nk	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nl	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nm	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nn	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	No	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Np	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nq	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nr	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Ns	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nt	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nu	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nv	90/98 (92%)	89 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Nw	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	Nx	90/98 (92%)	89 (99%)	1 (1%)	0	100	100
1	O0	90/98 (92%)	90 (100%)	0	0	100	100
1	O1	90/98 (92%)	90 (100%)	0	0	100	100
1	O2	90/98 (92%)	90 (100%)	0	0	100	100
1	O3	90/98 (92%)	90 (100%)	0	0	100	100
1	O4	90/98 (92%)	90 (100%)	0	0	100	100
1	O5	90/98 (92%)	90 (100%)	0	0	100	100
1	O6	90/98 (92%)	90 (100%)	0	0	100	100
1	O7	90/98 (92%)	90 (100%)	0	0	100	100
1	O8	90/98 (92%)	90 (100%)	0	0	100	100
1	O9	90/98 (92%)	90 (100%)	0	0	100	100
1	OA	90/98 (92%)	90 (100%)	0	0	100	100
1	OB	90/98 (92%)	90 (100%)	0	0	100	100
1	OC	90/98 (92%)	90 (100%)	0	0	100	100
1	OD	90/98 (92%)	90 (100%)	0	0	100	100
1	OE	90/98 (92%)	90 (100%)	0	0	100	100
1	OF	90/98 (92%)	90 (100%)	0	0	100	100
1	OG	90/98 (92%)	90 (100%)	0	0	100	100
1	OH	90/98 (92%)	90 (100%)	0	0	100	100
1	OI	90/98 (92%)	90 (100%)	0	0	100	100
1	OJ	90/98 (92%)	90 (100%)	0	0	100	100
1	OK	90/98 (92%)	90 (100%)	0	0	100	100
1	OL	90/98 (92%)	90 (100%)	0	0	100	100
1	OM	90/98 (92%)	90 (100%)	0	0	100	100
1	ON	90/98 (92%)	90 (100%)	0	0	100	100
1	OO	90/98 (92%)	90 (100%)	0	0	100	100
1	OP	90/98 (92%)	90 (100%)	0	0	100	100
1	OQ	90/98 (92%)	90 (100%)	0	0	100	100
1	OR	90/98 (92%)	90 (100%)	0	0	100	100
1	OS	90/98 (92%)	90 (100%)	0	0	100	100

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Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	OT	90/98 (92%)	90 (100%)	0	0	100	100
1	OU	90/98 (92%)	90 (100%)	0	0	100	100
1	OV	90/98 (92%)	90 (100%)	0	0	100	100
1	OW	90/98 (92%)	90 (100%)	0	0	100	100
1	OX	90/98 (92%)	90 (100%)	0	0	100	100
1	OY	90/98 (92%)	90 (100%)	0	0	100	100
1	OZ	90/98 (92%)	90 (100%)	0	0	100	100
1	Oa	90/98 (92%)	90 (100%)	0	0	100	100
1	Ob	90/98 (92%)	90 (100%)	0	0	100	100
1	Oc	90/98 (92%)	90 (100%)	0	0	100	100
1	Od	90/98 (92%)	90 (100%)	0	0	100	100
1	Oe	90/98 (92%)	90 (100%)	0	0	100	100
1	Of	90/98 (92%)	90 (100%)	0	0	100	100
1	Og	90/98 (92%)	90 (100%)	0	0	100	100
1	Oh	90/98 (92%)	90 (100%)	0	0	100	100
1	Oi	90/98 (92%)	90 (100%)	0	0	100	100
1	Oj	90/98 (92%)	90 (100%)	0	0	100	100
1	Ok	90/98 (92%)	90 (100%)	0	0	100	100
1	Ol	90/98 (92%)	90 (100%)	0	0	100	100
1	Om	90/98 (92%)	90 (100%)	0	0	100	100
1	On	90/98 (92%)	90 (100%)	0	0	100	100
1	Oo	90/98 (92%)	90 (100%)	0	0	100	100
1	Op	90/98 (92%)	90 (100%)	0	0	100	100
1	Oq	90/98 (92%)	90 (100%)	0	0	100	100
1	Or	90/98 (92%)	90 (100%)	0	0	100	100
1	Os	90/98 (92%)	90 (100%)	0	0	100	100
1	Ot	90/98 (92%)	90 (100%)	0	0	100	100
1	Ou	90/98 (92%)	90 (100%)	0	0	100	100
1	Ov	90/98 (92%)	90 (100%)	0	0	100	100
1	Ow	90/98 (92%)	90 (100%)	0	0	100	100
1	Ox	90/98 (92%)	90 (100%)	0	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	P0	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	P1	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	P2	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	P3	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	P4	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	P5	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	P6	79/83 (95%)	74 (94%)	5 (6%)	0	100	100
2	P7	79/83 (95%)	74 (94%)	4 (5%)	1 (1%)	10	40
2	P8	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	P9	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PA	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PB	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PC	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PD	79/83 (95%)	74 (94%)	5 (6%)	0	100	100
2	PE	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PF	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PG	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PH	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PI	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PJ	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PK	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PL	79/83 (95%)	74 (94%)	5 (6%)	0	100	100
2	PM	79/83 (95%)	74 (94%)	4 (5%)	1 (1%)	10	40
2	PN	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PO	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PP	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PQ	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PR	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PS	79/83 (95%)	74 (94%)	5 (6%)	0	100	100
2	PT	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PU	79/83 (95%)	75 (95%)	4 (5%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	PV	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	PW	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PX	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PY	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	PZ	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Pa	79/83 (95%)	74 (94%)	5 (6%)	0	100	100
2	Pb	79/83 (95%)	74 (94%)	4 (5%)	1 (1%)	10	40
2	Pc	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Pd	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Pe	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Pf	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Pg	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Ph	79/83 (95%)	74 (94%)	5 (6%)	0	100	100
2	Pi	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Pj	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Pk	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Pl	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Pm	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Pn	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Po	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Pp	79/83 (95%)	74 (94%)	5 (6%)	0	100	100
2	Pq	79/83 (95%)	74 (94%)	4 (5%)	1 (1%)	10	40
2	Pr	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Ps	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Pt	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Pu	79/83 (95%)	75 (95%)	4 (5%)	0	100	100
2	Pv	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
2	Pw	79/83 (95%)	74 (94%)	5 (6%)	0	100	100
2	Px	79/83 (95%)	76 (96%)	3 (4%)	0	100	100
3	X0	66/869 (8%)	65 (98%)	0	1 (2%)	8	38
3	X1	66/869 (8%)	64 (97%)	2 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	X2	66/869 (8%)	66 (100%)	0	0	100	100
3	X3	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	X4	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	X5	66/869 (8%)	66 (100%)	0	0	100	100
3	X6	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	X7	66/869 (8%)	66 (100%)	0	0	100	100
3	X8	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	X9	66/869 (8%)	66 (100%)	0	0	100	100
3	XA	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	XB	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	XC	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XD	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XE	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XF	66/869 (8%)	65 (98%)	0	1 (2%)	8	38
3	XG	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	XH	66/869 (8%)	66 (100%)	0	0	100	100
3	XI	66/869 (8%)	66 (100%)	0	0	100	100
3	XJ	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XK	66/869 (8%)	66 (100%)	0	0	100	100
3	XL	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XM	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	XN	66/869 (8%)	66 (100%)	0	0	100	100
3	XO	66/869 (8%)	66 (100%)	0	0	100	100
3	XP	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	XQ	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	XR	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XS	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XT	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XU	66/869 (8%)	65 (98%)	0	1 (2%)	8	38
3	XV	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	XW	66/869 (8%)	66 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	XX	66/869 (8%)	66 (100%)	0	0	100	100
3	XY	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	XZ	66/869 (8%)	66 (100%)	0	0	100	100
3	Xa	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xb	66/869 (8%)	66 (100%)	0	0	100	100
3	Xc	66/869 (8%)	66 (100%)	0	0	100	100
3	Xd	66/869 (8%)	66 (100%)	0	0	100	100
3	Xe	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	Xf	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	Xg	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xh	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xi	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xj	66/869 (8%)	65 (98%)	0	1 (2%)	8	38
3	Xk	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	Xl	66/869 (8%)	66 (100%)	0	0	100	100
3	Xm	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xn	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xo	66/869 (8%)	66 (100%)	0	0	100	100
3	Xp	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xq	66/869 (8%)	66 (100%)	0	0	100	100
3	Xr	66/869 (8%)	66 (100%)	0	0	100	100
3	Xs	66/869 (8%)	66 (100%)	0	0	100	100
3	Xt	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	Xu	66/869 (8%)	64 (97%)	2 (3%)	0	100	100
3	Xv	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xw	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Xx	66/869 (8%)	65 (98%)	1 (2%)	0	100	100
3	Y0	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Y1	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Y2	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Y3	130/869 (15%)	126 (97%)	4 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	Y4	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	Y5	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Y6	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Y7	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Y8	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Y9	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YA	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YB	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YC	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YD	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	YE	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	YF	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YG	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YH	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YI	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YJ	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	YK	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YL	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YM	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YN	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YO	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YP	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YQ	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YR	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YS	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	YT	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	YU	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YV	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YW	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YX	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	YY	130/869 (15%)	125 (96%)	5 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	YZ	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Ya	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yb	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yc	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yd	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Ye	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yf	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yg	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yh	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	Yi	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	Yj	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yk	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yl	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Ym	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yn	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	Yo	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yp	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yq	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yr	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Ys	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yt	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yu	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yv	130/869 (15%)	126 (97%)	4 (3%)	0	100	100
3	Yw	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
3	Yx	130/869 (15%)	125 (96%)	5 (4%)	0	100	100
All	All	97458/197460 (49%)	96041 (98%)	1409 (1%)	8 (0%)	100	100

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	P7	68	PRO
3	X0	728	PRO
2	PM	68	PRO

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Mol	Chain	Res	Type
3	XF	728	PRO
2	Pb	68	PRO
3	XU	728	PRO
2	Pq	68	PRO
3	Xj	728	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A0	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A1	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A2	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A3	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A4	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A5	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A6	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A7	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A8	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	A9	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AA	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AB	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AC	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AD	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AE	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AF	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AG	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AH	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AI	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AJ	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AK	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AL	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AM	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AN	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AO	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AP	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AQ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AR	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AS	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AT	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AU	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AV	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AW	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AX	63/67 (94%)	60 (95%)	3 (5%)	21	48
1	AY	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	AZ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Aa	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ab	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ac	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ad	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ae	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Af	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ag	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ah	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ai	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Aj	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ak	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Al	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Am	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	An	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ao	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Ap	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	Aq	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ar	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	As	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	At	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Au	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Av	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Aw	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ax	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	B0	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B1	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B2	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B3	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B4	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B5	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B6	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B7	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B8	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	B9	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BA	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BB	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BC	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BD	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BE	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BF	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BG	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BH	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BI	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BJ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BK	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BL	63/67 (94%)	62 (98%)	1 (2%)	58	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BM	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BN	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BO	63/67 (94%)	63 (100%)	0	100	100
1	BP	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BQ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BR	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BS	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BT	63/67 (94%)	63 (100%)	0	100	100
1	BU	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BV	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BW	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BX	61/67 (91%)	60 (98%)	1 (2%)	58	74
1	BY	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	BZ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ba	63/67 (94%)	63 (100%)	0	100	100
1	Bb	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bc	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bd	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Be	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bf	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bg	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bh	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bi	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bj	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bk	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bl	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bm	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Bn	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bo	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bp	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Bq	63/67 (94%)	62 (98%)	1 (2%)	58	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	Br	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Bs	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Bt	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Bu	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Bv	63/67 (94%)	63 (100%)	0	100 100
1	Bw	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Bx	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	C0	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	C1	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	C2	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	C3	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	C4	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	C5	63/67 (94%)	63 (100%)	0	100 100
1	C6	63/67 (94%)	63 (100%)	0	100 100
1	C7	63/67 (94%)	63 (100%)	0	100 100
1	C8	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	C9	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CA	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CB	63/67 (94%)	63 (100%)	0	100 100
1	CC	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CD	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CE	63/67 (94%)	63 (100%)	0	100 100
1	CF	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CG	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CH	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CI	63/67 (94%)	63 (100%)	0	100 100
1	CJ	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CK	63/67 (94%)	63 (100%)	0	100 100
1	CL	63/67 (94%)	63 (100%)	0	100 100
1	CM	63/67 (94%)	63 (100%)	0	100 100
1	CN	63/67 (94%)	62 (98%)	1 (2%)	58 74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	CO	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CP	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CQ	63/67 (94%)	63 (100%)	0	100 100
1	CR	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CS	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CT	63/67 (94%)	63 (100%)	0	100 100
1	CU	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CV	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CW	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CX	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CY	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	CZ	63/67 (94%)	63 (100%)	0	100 100
1	Ca	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cb	63/67 (94%)	63 (100%)	0	100 100
1	Cc	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cd	63/67 (94%)	63 (100%)	0	100 100
1	Ce	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cf	63/67 (94%)	63 (100%)	0	100 100
1	Cg	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Ch	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Ci	63/67 (94%)	63 (100%)	0	100 100
1	Cj	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Ck	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cl	63/67 (94%)	63 (100%)	0	100 100
1	Cm	63/67 (94%)	63 (100%)	0	100 100
1	Cn	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Co	63/67 (94%)	63 (100%)	0	100 100
1	Cp	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cq	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cr	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cs	63/67 (94%)	63 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	Ct	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cu	63/67 (94%)	63 (100%)	0	100 100
1	Cv	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cw	63/67 (94%)	62 (98%)	1 (2%)	58 74
1	Cx	63/67 (94%)	63 (100%)	0	100 100
1	D0	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	D1	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	D2	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	D3	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	D4	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	D5	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	D6	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	D7	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	D8	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	D9	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DA	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DB	63/67 (94%)	54 (86%)	9 (14%)	2 16
1	DC	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DD	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DE	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DF	61/67 (91%)	53 (87%)	8 (13%)	3 18
1	DG	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DH	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	DI	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DJ	63/67 (94%)	53 (84%)	10 (16%)	2 13
1	DK	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DL	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DM	63/67 (94%)	56 (89%)	7 (11%)	5 24
1	DN	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DO	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	DP	63/67 (94%)	57 (90%)	6 (10%)	7 28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	DQ	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	DR	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	DS	63/67 (94%)	56 (89%)	7 (11%)	5	24
1	DT	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	DU	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	DV	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	DW	61/67 (91%)	55 (90%)	6 (10%)	6	27
1	DX	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	DY	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	DZ	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Da	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Db	63/67 (94%)	55 (87%)	8 (13%)	3	19
1	Dc	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dd	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	De	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Df	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dg	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dh	63/67 (94%)	55 (87%)	8 (13%)	3	19
1	Di	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dj	61/67 (91%)	56 (92%)	5 (8%)	9	34
1	Dk	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dl	61/67 (91%)	54 (88%)	7 (12%)	4	22
1	Dm	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dn	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	Do	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dp	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dq	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dr	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Ds	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Dt	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Du	61/67 (91%)	56 (92%)	5 (8%)	9	34

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	Dv	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	Dw	63/67 (94%)	55 (87%)	8 (13%)	3 19
1	Dx	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	E0	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	E1	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	E2	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	E3	63/67 (94%)	60 (95%)	3 (5%)	21 48
1	E4	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	E5	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	E6	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	E7	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	E8	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	E9	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EA	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EB	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EC	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	ED	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EE	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EF	61/67 (91%)	56 (92%)	5 (8%)	9 34
1	EG	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EH	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EI	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EJ	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EK	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EL	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	EM	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EN	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EO	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EP	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	EQ	63/67 (94%)	61 (97%)	2 (3%)	34 57
1	ER	63/67 (94%)	61 (97%)	2 (3%)	34 57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	ES	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	ET	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	EU	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	EV	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	EW	61/67 (91%)	59 (97%)	2 (3%)	33	57
1	EX	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	EY	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	EZ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ea	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Eb	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ec	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ed	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ee	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ef	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Eg	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Eh	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ei	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ej	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ek	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	El	61/67 (91%)	59 (97%)	2 (3%)	33	57
1	Em	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	En	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Eo	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ep	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Eq	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Er	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Es	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Et	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Eu	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ev	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ew	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Ex	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	F0	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F1	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F2	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F3	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F4	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F5	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F6	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F7	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F8	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	F9	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FA	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FB	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FC	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FD	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FE	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FF	61/67 (91%)	55 (90%)	6 (10%)	6	27
1	FG	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FH	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	FI	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	FJ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FK	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FL	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FM	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FN	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FO	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FP	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FQ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FR	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FS	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FT	63/67 (94%)	62 (98%)	1 (2%)	58	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	FU	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	FV	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FW	61/67 (91%)	59 (97%)	2 (3%)	33	57
1	FX	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FY	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	FZ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fa	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fb	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fc	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fd	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fe	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ff	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fg	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fh	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Fi	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fj	61/67 (91%)	59 (97%)	2 (3%)	33	57
1	Fk	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fl	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Fm	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fn	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fo	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fp	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fq	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fr	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fs	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ft	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fu	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fv	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fw	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Fx	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	G0	63/67 (94%)	58 (92%)	5 (8%)	10	35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G1	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	G2	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	G3	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	G4	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	G5	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	G6	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	G7	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	G8	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	G9	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GA	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GB	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	GC	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GD	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GE	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GF	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	GG	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GH	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	GI	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GJ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GK	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GL	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GM	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GN	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GO	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GP	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GQ	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	GR	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GS	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GT	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GU	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	GV	63/67 (94%)	62 (98%)	1 (2%)	58	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	GW	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	GX	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GY	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	GZ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ga	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gb	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gc	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gd	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ge	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gf	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	Gg	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gh	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gi	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gj	61/67 (91%)	56 (92%)	5 (8%)	9	34
1	Gk	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gl	61/67 (91%)	57 (93%)	4 (7%)	14	41
1	Gm	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gn	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Go	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gp	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gq	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gr	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gs	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gt	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gu	63/67 (94%)	59 (94%)	4 (6%)	15	42
1	Gv	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gw	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Gx	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H0	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H1	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H2	63/67 (94%)	62 (98%)	1 (2%)	58	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H3	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H4	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H5	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H6	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H7	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H8	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	H9	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HA	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HB	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HC	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HD	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HE	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HF	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HG	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HH	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HI	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HJ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HK	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HL	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HM	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HN	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HO	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HP	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HQ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HR	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HS	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HT	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HU	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HV	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HW	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HX	63/67 (94%)	62 (98%)	1 (2%)	58	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	HY	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	HZ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ha	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hb	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hc	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hd	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	He	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hf	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hg	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hh	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hi	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hj	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hk	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hl	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hm	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hn	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ho	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hp	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hq	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hr	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hs	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ht	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hu	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hv	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hw	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Hx	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	I0	63/67 (94%)	63 (100%)	0	100	100
1	I1	63/67 (94%)	63 (100%)	0	100	100
1	I2	63/67 (94%)	63 (100%)	0	100	100
1	I3	63/67 (94%)	63 (100%)	0	100	100
1	I4	63/67 (94%)	63 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	I5	63/67 (94%)	63 (100%)	0	100	100
1	I6	63/67 (94%)	63 (100%)	0	100	100
1	I7	63/67 (94%)	63 (100%)	0	100	100
1	I8	63/67 (94%)	63 (100%)	0	100	100
1	I9	63/67 (94%)	63 (100%)	0	100	100
1	IA	63/67 (94%)	63 (100%)	0	100	100
1	IB	63/67 (94%)	63 (100%)	0	100	100
1	IC	63/67 (94%)	63 (100%)	0	100	100
1	ID	63/67 (94%)	63 (100%)	0	100	100
1	IE	63/67 (94%)	63 (100%)	0	100	100
1	IF	63/67 (94%)	63 (100%)	0	100	100
1	IG	63/67 (94%)	63 (100%)	0	100	100
1	IH	63/67 (94%)	63 (100%)	0	100	100
1	II	63/67 (94%)	63 (100%)	0	100	100
1	IJ	63/67 (94%)	63 (100%)	0	100	100
1	IK	63/67 (94%)	63 (100%)	0	100	100
1	IL	63/67 (94%)	63 (100%)	0	100	100
1	IM	63/67 (94%)	63 (100%)	0	100	100
1	IN	63/67 (94%)	63 (100%)	0	100	100
1	IO	63/67 (94%)	63 (100%)	0	100	100
1	IP	63/67 (94%)	63 (100%)	0	100	100
1	IQ	63/67 (94%)	63 (100%)	0	100	100
1	IR	63/67 (94%)	63 (100%)	0	100	100
1	IS	63/67 (94%)	63 (100%)	0	100	100
1	IT	63/67 (94%)	63 (100%)	0	100	100
1	IU	63/67 (94%)	63 (100%)	0	100	100
1	IV	63/67 (94%)	63 (100%)	0	100	100
1	IW	63/67 (94%)	63 (100%)	0	100	100
1	IX	63/67 (94%)	63 (100%)	0	100	100
1	IY	63/67 (94%)	63 (100%)	0	100	100
1	IZ	63/67 (94%)	63 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Ia	63/67 (94%)	63 (100%)	0	100	100
1	Ib	63/67 (94%)	63 (100%)	0	100	100
1	Ic	63/67 (94%)	63 (100%)	0	100	100
1	Id	63/67 (94%)	63 (100%)	0	100	100
1	Ie	63/67 (94%)	63 (100%)	0	100	100
1	If	63/67 (94%)	63 (100%)	0	100	100
1	Ig	63/67 (94%)	63 (100%)	0	100	100
1	Ih	63/67 (94%)	63 (100%)	0	100	100
1	Ii	63/67 (94%)	63 (100%)	0	100	100
1	Ij	63/67 (94%)	63 (100%)	0	100	100
1	Ik	63/67 (94%)	63 (100%)	0	100	100
1	Il	63/67 (94%)	63 (100%)	0	100	100
1	Im	63/67 (94%)	63 (100%)	0	100	100
1	In	63/67 (94%)	63 (100%)	0	100	100
1	Io	63/67 (94%)	63 (100%)	0	100	100
1	Ip	63/67 (94%)	63 (100%)	0	100	100
1	Iq	63/67 (94%)	63 (100%)	0	100	100
1	Ir	63/67 (94%)	63 (100%)	0	100	100
1	Is	63/67 (94%)	63 (100%)	0	100	100
1	It	63/67 (94%)	63 (100%)	0	100	100
1	Iu	63/67 (94%)	63 (100%)	0	100	100
1	Iv	63/67 (94%)	63 (100%)	0	100	100
1	Iw	63/67 (94%)	63 (100%)	0	100	100
1	Ix	63/67 (94%)	63 (100%)	0	100	100
1	J0	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	J1	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	J2	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	J3	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	J4	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	J5	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	J6	63/67 (94%)	60 (95%)	3 (5%)	21	48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	J7	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	J8	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	J9	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JA	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JB	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JC	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JD	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JE	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JF	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JG	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JH	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JI	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JJ	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JK	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JL	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JM	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JN	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JO	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JP	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JQ	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JR	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JS	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JT	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JU	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JV	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JW	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JX	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	JY	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	JZ	63/67 (94%)	57 (90%)	6 (10%)	7 28
1	Ja	63/67 (94%)	58 (92%)	5 (8%)	10 35
1	Jb	63/67 (94%)	57 (90%)	6 (10%)	7 28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Jc	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jd	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Je	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jf	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Jg	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jh	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Ji	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jj	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jk	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jl	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Jm	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jn	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jo	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Jp	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jq	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Jr	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Js	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jt	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Ju	63/67 (94%)	57 (90%)	6 (10%)	7	28
1	Jv	63/67 (94%)	56 (89%)	7 (11%)	5	24
1	Jw	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Jx	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	K0	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	K1	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	K2	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	K3	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	K4	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	K5	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	K6	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	K7	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	K8	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K9	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KA	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KB	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KC	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KD	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KE	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KF	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KG	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KH	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KI	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KJ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KK	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KL	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KM	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KN	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KO	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KP	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KQ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KR	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KS	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KT	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KU	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KV	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KW	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KX	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KY	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	KZ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ka	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kb	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kc	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kd	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Ke	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kf	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kg	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kh	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ki	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kj	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kk	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kl	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Km	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kn	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ko	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kp	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kq	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kr	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ks	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kt	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ku	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kv	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kw	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Kx	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L0	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L1	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L2	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L3	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L4	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L5	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L6	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L7	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L8	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	L9	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LA	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	LB	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LC	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LD	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LE	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LF	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LG	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LH	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LI	63/67 (94%)	60 (95%)	3 (5%)	21	48
1	LJ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LK	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LL	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LM	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LN	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LO	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LP	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LQ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LR	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LS	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LT	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LU	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LV	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LW	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LX	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LY	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	LZ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	La	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lb	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lc	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ld	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Le	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lf	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Lg	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lh	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Li	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lj	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lk	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ll	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lm	63/67 (94%)	58 (92%)	5 (8%)	10	35
1	Ln	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lo	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lp	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lq	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lr	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ls	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lt	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lu	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lv	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lw	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Lx	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	M0	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M1	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M2	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M3	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M4	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M5	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M6	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M7	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M8	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	M9	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MA	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MB	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MC	63/67 (94%)	62 (98%)	1 (2%)	58	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	MD	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	ME	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MF	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	MG	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MH	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MI	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MJ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MK	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	ML	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MM	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MN	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MO	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MP	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MQ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MR	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MS	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MT	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MU	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MV	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MW	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MX	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MY	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	MZ	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ma	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mb	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mc	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Md	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Me	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mf	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mg	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mh	63/67 (94%)	62 (98%)	1 (2%)	58	74

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Mi	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mj	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mk	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ml	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mm	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Mn	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mo	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mp	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mq	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mr	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Ms	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mt	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mu	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mv	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mw	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	Mx	63/67 (94%)	62 (98%)	1 (2%)	58	74
1	N0	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N1	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N2	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N3	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N4	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N5	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N6	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N7	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N8	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	N9	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NA	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NB	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NC	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	ND	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NE	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	NF	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NG	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NH	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NI	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NJ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NK	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NL	63/67 (94%)	60 (95%)	3 (5%)	21	48
1	NM	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NN	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NO	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NP	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NQ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NR	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NS	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NT	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NU	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NV	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NW	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NX	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NY	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	NZ	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Na	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nb	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nc	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nd	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ne	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nf	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ng	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nh	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ni	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nj	63/67 (94%)	61 (97%)	2 (3%)	34	57

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Nk	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nl	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nm	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nn	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	No	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Np	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nq	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nr	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Ns	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nt	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nu	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nv	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nw	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	Nx	63/67 (94%)	61 (97%)	2 (3%)	34	57
1	O0	63/67 (94%)	63 (100%)	0	100	100
1	O1	63/67 (94%)	63 (100%)	0	100	100
1	O2	63/67 (94%)	63 (100%)	0	100	100
1	O3	63/67 (94%)	63 (100%)	0	100	100
1	O4	63/67 (94%)	63 (100%)	0	100	100
1	O5	63/67 (94%)	63 (100%)	0	100	100
1	O6	63/67 (94%)	63 (100%)	0	100	100
1	O7	63/67 (94%)	63 (100%)	0	100	100
1	O8	63/67 (94%)	63 (100%)	0	100	100
1	O9	63/67 (94%)	63 (100%)	0	100	100
1	OA	63/67 (94%)	63 (100%)	0	100	100
1	OB	63/67 (94%)	63 (100%)	0	100	100
1	OC	63/67 (94%)	63 (100%)	0	100	100
1	OD	63/67 (94%)	63 (100%)	0	100	100
1	OE	63/67 (94%)	63 (100%)	0	100	100
1	OF	63/67 (94%)	63 (100%)	0	100	100
1	OG	63/67 (94%)	63 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	OH	63/67 (94%)	63 (100%)	0	100	100
1	OI	63/67 (94%)	63 (100%)	0	100	100
1	OJ	63/67 (94%)	63 (100%)	0	100	100
1	OK	63/67 (94%)	63 (100%)	0	100	100
1	OL	63/67 (94%)	63 (100%)	0	100	100
1	OM	63/67 (94%)	63 (100%)	0	100	100
1	ON	63/67 (94%)	63 (100%)	0	100	100
1	OO	63/67 (94%)	63 (100%)	0	100	100
1	OP	63/67 (94%)	63 (100%)	0	100	100
1	OQ	63/67 (94%)	63 (100%)	0	100	100
1	OR	63/67 (94%)	63 (100%)	0	100	100
1	OS	63/67 (94%)	63 (100%)	0	100	100
1	OT	63/67 (94%)	63 (100%)	0	100	100
1	OU	63/67 (94%)	63 (100%)	0	100	100
1	OV	63/67 (94%)	63 (100%)	0	100	100
1	OW	63/67 (94%)	63 (100%)	0	100	100
1	OX	63/67 (94%)	63 (100%)	0	100	100
1	OY	63/67 (94%)	63 (100%)	0	100	100
1	OZ	63/67 (94%)	63 (100%)	0	100	100
1	Oa	63/67 (94%)	63 (100%)	0	100	100
1	Ob	63/67 (94%)	63 (100%)	0	100	100
1	Oc	63/67 (94%)	63 (100%)	0	100	100
1	Od	63/67 (94%)	63 (100%)	0	100	100
1	Oe	63/67 (94%)	63 (100%)	0	100	100
1	Of	63/67 (94%)	63 (100%)	0	100	100
1	Og	63/67 (94%)	63 (100%)	0	100	100
1	Oh	63/67 (94%)	63 (100%)	0	100	100
1	Oi	63/67 (94%)	63 (100%)	0	100	100
1	Oj	63/67 (94%)	63 (100%)	0	100	100
1	Ok	63/67 (94%)	63 (100%)	0	100	100
1	Ol	63/67 (94%)	63 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Om	63/67 (94%)	63 (100%)	0	100	100
1	On	63/67 (94%)	63 (100%)	0	100	100
1	Oo	63/67 (94%)	63 (100%)	0	100	100
1	Op	63/67 (94%)	63 (100%)	0	100	100
1	Oq	63/67 (94%)	63 (100%)	0	100	100
1	Or	63/67 (94%)	63 (100%)	0	100	100
1	Os	63/67 (94%)	63 (100%)	0	100	100
1	Ot	63/67 (94%)	63 (100%)	0	100	100
1	Ou	63/67 (94%)	63 (100%)	0	100	100
1	Ov	63/67 (94%)	63 (100%)	0	100	100
1	Ow	63/67 (94%)	63 (100%)	0	100	100
1	Ox	63/67 (94%)	63 (100%)	0	100	100
2	P0	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	P1	66/67 (98%)	60 (91%)	6 (9%)	7	30
2	P2	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	P3	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	P4	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	P5	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	P6	66/67 (98%)	60 (91%)	6 (9%)	7	30
2	P7	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	P8	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	P9	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PA	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PB	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PC	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PD	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PE	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PF	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PG	66/67 (98%)	60 (91%)	6 (9%)	7	30
2	PH	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PI	66/67 (98%)	62 (94%)	4 (6%)	15	43

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	PJ	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PK	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PL	66/67 (98%)	60 (91%)	6 (9%)	7	30
2	PM	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PN	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PO	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PP	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PQ	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PR	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PS	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PT	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PU	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PV	66/67 (98%)	60 (91%)	6 (9%)	7	30
2	PW	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PX	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	PY	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	PZ	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	Pa	66/67 (98%)	60 (91%)	6 (9%)	7	30
2	Pb	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	Pc	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	Pd	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	Pe	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	Pf	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	Pg	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	Ph	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	Pi	66/67 (98%)	61 (92%)	5 (8%)	11	36
2	Pj	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	Pk	66/67 (98%)	60 (91%)	6 (9%)	7	30
2	Pl	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	Pm	66/67 (98%)	62 (94%)	4 (6%)	15	43
2	Pn	66/67 (98%)	61 (92%)	5 (8%)	11	36

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	Po	66/67 (98%)	61 (92%)	5 (8%)	11 36
2	Pp	66/67 (98%)	60 (91%)	6 (9%)	7 30
2	Pq	66/67 (98%)	61 (92%)	5 (8%)	11 36
2	Pr	66/67 (98%)	61 (92%)	5 (8%)	11 36
2	Ps	66/67 (98%)	62 (94%)	4 (6%)	15 43
2	Pt	66/67 (98%)	61 (92%)	5 (8%)	11 36
2	Pu	66/67 (98%)	61 (92%)	5 (8%)	11 36
2	Pv	66/67 (98%)	61 (92%)	5 (8%)	11 36
2	Pw	66/67 (98%)	62 (94%)	4 (6%)	15 43
2	Px	66/67 (98%)	61 (92%)	5 (8%)	11 36
3	X0	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	X1	56/702 (8%)	45 (80%)	11 (20%)	1 7
3	X2	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	X3	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	X4	56/702 (8%)	46 (82%)	10 (18%)	1 9
3	X5	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	X6	56/702 (8%)	52 (93%)	4 (7%)	12 38
3	X7	56/702 (8%)	50 (89%)	6 (11%)	5 25
3	X8	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	X9	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	XA	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	XB	56/702 (8%)	51 (91%)	5 (9%)	8 31
3	XC	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	XD	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	XE	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	XF	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	XG	56/702 (8%)	45 (80%)	11 (20%)	1 7
3	XH	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	XI	56/702 (8%)	51 (91%)	5 (9%)	8 31
3	XJ	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	XK	56/702 (8%)	49 (88%)	7 (12%)	3 19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	XL	56/702 (8%)	52 (93%)	4 (7%)	12 38
3	XM	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	XN	56/702 (8%)	50 (89%)	6 (11%)	5 25
3	XO	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	XP	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	XQ	56/702 (8%)	51 (91%)	5 (9%)	8 31
3	XR	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	XS	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	XT	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	XU	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	XV	56/702 (8%)	45 (80%)	11 (20%)	1 7
3	XW	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	XX	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	XY	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	XZ	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	Xa	56/702 (8%)	51 (91%)	5 (9%)	8 31
3	Xb	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	Xc	56/702 (8%)	50 (89%)	6 (11%)	5 25
3	Xd	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	Xe	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	Xf	56/702 (8%)	51 (91%)	5 (9%)	8 31
3	Xg	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	Xh	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	Xi	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	Xj	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	Xk	56/702 (8%)	45 (80%)	11 (20%)	1 7
3	Xl	56/702 (8%)	48 (86%)	8 (14%)	2 16
3	Xm	56/702 (8%)	51 (91%)	5 (9%)	8 31
3	Xn	56/702 (8%)	47 (84%)	9 (16%)	2 13
3	Xo	56/702 (8%)	49 (88%)	7 (12%)	3 19
3	Xp	56/702 (8%)	52 (93%)	4 (7%)	12 38

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Xq	56/702 (8%)	47 (84%)	9 (16%)	2	13
3	Xr	56/702 (8%)	49 (88%)	7 (12%)	3	19
3	Xs	56/702 (8%)	48 (86%)	8 (14%)	2	16
3	Xt	56/702 (8%)	48 (86%)	8 (14%)	2	16
3	Xu	56/702 (8%)	51 (91%)	5 (9%)	8	31
3	Xv	56/702 (8%)	49 (88%)	7 (12%)	3	19
3	Xw	56/702 (8%)	48 (86%)	8 (14%)	2	16
3	Xx	56/702 (8%)	47 (84%)	9 (16%)	2	13
3	Y0	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Y1	103/702 (15%)	98 (95%)	5 (5%)	21	47
3	Y2	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	Y3	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Y4	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Y5	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Y6	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Y7	103/702 (15%)	98 (95%)	5 (5%)	21	47
3	Y8	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Y9	103/702 (15%)	99 (96%)	4 (4%)	27	53
3	YA	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	YB	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	YC	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	YD	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	YE	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	YF	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	YG	103/702 (15%)	98 (95%)	5 (5%)	21	47
3	YH	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	YI	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	YJ	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	YK	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	YL	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	YM	103/702 (15%)	98 (95%)	5 (5%)	21	47

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	YN	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	YO	103/702 (15%)	99 (96%)	4 (4%)	27	53
3	YP	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	YQ	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	YR	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	YS	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	YT	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	YU	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	YV	103/702 (15%)	98 (95%)	5 (5%)	21	47
3	YW	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	YX	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	YY	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	YZ	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Ya	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Yb	103/702 (15%)	98 (95%)	5 (5%)	21	47
3	Yc	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Yd	103/702 (15%)	99 (96%)	4 (4%)	27	53
3	Ye	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	Yf	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Yg	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	Yh	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Yi	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Yj	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Yk	103/702 (15%)	98 (95%)	5 (5%)	21	47
3	Yl	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	Ym	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Yn	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Yo	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Yp	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Yq	103/702 (15%)	98 (95%)	5 (5%)	21	47
3	Yr	103/702 (15%)	96 (93%)	7 (7%)	13	40

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	Ys	103/702 (15%)	99 (96%)	4 (4%)	27	53
3	Yt	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	Yu	103/702 (15%)	96 (93%)	7 (7%)	13	40
3	Yv	103/702 (15%)	97 (94%)	6 (6%)	17	44
3	Yw	103/702 (15%)	95 (92%)	8 (8%)	10	36
3	Yx	103/702 (15%)	96 (93%)	7 (7%)	13	40
All	All	70172/148560 (47%)	67333 (96%)	2839 (4%)	29	52

All (2839) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	38	ARG
1	AA	84	VAL
1	AB	38	ARG
1	AB	84	VAL
1	AC	38	ARG
1	AC	84	VAL
1	AD	38	ARG
1	AD	84	VAL
1	AE	38	ARG
1	AE	84	VAL
1	BA	84	VAL
1	BB	84	VAL
1	BC	84	VAL
1	BD	84	VAL
1	BE	84	VAL
1	CA	7	ILE
1	CC	7	ILE
1	CD	7	ILE
1	DA	13	GLU
1	DA	18	VAL
1	DA	34	ARG
1	DA	48	VAL
1	DA	66	ASP
1	DA	97	GLN
1	DB	9	LEU
1	DB	12	ILE
1	DB	36	VAL
1	DB	38	ARG
1	DB	47	THR

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Mol	Chain	Res	Type
1	DB	48	VAL
1	DB	70	ARG
1	DB	75	LEU
1	DB	92	LEU
1	DC	13	GLU
1	DC	18	VAL
1	DC	34	ARG
1	DC	48	VAL
1	DC	66	ASP
1	DC	97	GLN
1	DE	13	GLU
1	DE	18	VAL
1	DE	34	ARG
1	DE	48	VAL
1	DE	66	ASP
1	DE	97	GLN
1	EA	28	THR
1	EA	91	ILE
1	EB	28	THR
1	EB	91	ILE
1	EC	28	THR
1	EC	91	ILE
1	ED	28	THR
1	ED	91	ILE
1	EE	28	THR
1	EE	91	ILE
1	FA	50	VAL
1	FB	50	VAL
1	FC	50	VAL
1	FD	50	VAL
1	FE	50	VAL
1	GA	71	VAL
1	GB	9	LEU
1	GB	48	VAL
1	GB	84	VAL
1	GB	97	GLN
1	GC	71	VAL
1	GD	71	VAL
1	GE	71	VAL
1	HA	48	VAL
1	HB	48	VAL
1	HC	48	VAL

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Mol	Chain	Res	Type
1	HD	48	VAL
1	HE	48	VAL
1	JA	28	THR
1	JA	48	VAL
1	JA	73	ASP
1	JA	84	VAL
1	JA	86	SER
1	JB	28	THR
1	JB	48	VAL
1	JB	73	ASP
1	JB	75	LEU
1	JB	84	VAL
1	JB	86	SER
1	JD	28	THR
1	JD	48	VAL
1	JD	73	ASP
1	JD	84	VAL
1	JD	86	SER
1	JE	28	THR
1	JE	48	VAL
1	JE	73	ASP
1	JE	84	VAL
1	JE	86	SER
1	KA	35	LEU
1	KA	94	LYS
1	KB	35	LEU
1	KB	94	LYS
1	KC	35	LEU
1	KC	94	LYS
1	KD	35	LEU
1	KD	94	LYS
1	KE	35	LEU
1	KE	94	LYS
1	LA	12	ILE
1	LA	84	VAL
1	LB	12	ILE
1	LB	84	VAL
1	LC	12	ILE
1	LC	84	VAL
1	LD	12	ILE
1	LD	84	VAL
1	LE	12	ILE

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Mol	Chain	Res	Type
1	LE	84	VAL
1	MA	73	ASP
1	MB	73	ASP
1	MC	73	ASP
1	MD	73	ASP
1	ME	73	ASP
1	NA	48	VAL
1	NA	50	VAL
1	NB	48	VAL
1	NB	50	VAL
1	NC	48	VAL
1	NC	50	VAL
1	ND	48	VAL
1	ND	50	VAL
1	NE	48	VAL
1	NE	50	VAL
2	PA	9	THR
2	PA	10	LEU
2	PA	13	THR
2	PA	28	TRP
2	PA	60	GLU
2	PB	9	THR
2	PB	10	LEU
2	PB	13	THR
2	PB	28	TRP
2	PB	60	GLU
2	PC	9	THR
2	PC	10	LEU
2	PC	13	THR
2	PC	28	TRP
2	PC	53	VAL
2	PD	27	VAL
2	PD	36	GLN
2	PD	45	ILE
2	PD	53	VAL
2	PE	9	THR
2	PE	10	LEU
2	PE	13	THR
2	PE	28	TRP
2	PE	53	VAL
3	XA	621	VAL
3	XA	628	THR

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Mol	Chain	Res	Type
3	XA	637	LEU
3	XA	647	GLN
3	XA	691	ILE
3	XA	700	ASN
3	XA	718	MET
3	XA	729	GLU
3	XB	616	ILE
3	XB	637	LEU
3	XB	691	ILE
3	XB	693	THR
3	XB	725	THR
3	XC	621	VAL
3	XC	622	ASP
3	XC	643	TYR
3	XC	647	GLN
3	XC	691	ILE
3	XC	693	THR
3	XC	725	THR
3	XE	621	VAL
3	XE	625	ASP
3	XE	627	VAL
3	XE	632	ILE
3	XE	637	LEU
3	XE	644	VAL
3	XE	691	ILE
3	XE	693	THR
3	XE	725	THR
3	YA	718	MET
3	YA	727	THR
3	YA	796	THR
3	YA	800	TRP
3	YA	827	VAL
3	YA	852	SER
3	YB	702	ILE
3	YB	719	LEU
3	YB	727	THR
3	YB	796	THR
3	YB	800	TRP
3	YB	827	VAL
3	YB	852	SER
3	YC	719	LEU
3	YC	727	THR

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Mol	Chain	Res	Type
3	YC	796	THR
3	YC	800	TRP
3	YC	827	VAL
3	YC	852	SER
3	YD	702	ILE
3	YD	713	ILE
3	YD	719	LEU
3	YD	732	HIS
3	YD	796	THR
3	YD	800	TRP
3	YD	827	VAL
3	YD	852	SER
3	YE	712	ARG
3	YE	729	GLU
3	YE	732	HIS
3	YE	796	THR
3	YE	800	TRP
3	YE	827	VAL
3	YE	852	SER
1	A1	38	ARG
1	A1	84	VAL
1	A2	38	ARG
1	A2	84	VAL
1	A3	38	ARG
1	A3	84	VAL
1	A4	38	ARG
1	A4	84	VAL
1	A5	38	ARG
1	A5	84	VAL
1	B1	84	VAL
1	B2	84	VAL
1	B3	84	VAL
1	B4	84	VAL
1	B5	84	VAL
1	C1	7	ILE
1	C2	7	ILE
1	C3	7	ILE
1	C4	7	ILE
1	D1	13	GLU
1	D1	18	VAL
1	D1	34	ARG
1	D1	48	VAL

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Mol	Chain	Res	Type
1	D1	66	ASP
1	D1	97	GLN
1	D2	13	GLU
1	D2	18	VAL
1	D2	34	ARG
1	D2	48	VAL
1	D2	66	ASP
1	D2	97	GLN
1	D3	13	GLU
1	D3	18	VAL
1	D3	34	ARG
1	D3	48	VAL
1	D3	66	ASP
1	D3	97	GLN
1	D5	13	GLU
1	D5	18	VAL
1	D5	34	ARG
1	D5	48	VAL
1	D5	66	ASP
1	D5	97	GLN
1	E1	28	THR
1	E1	91	ILE
1	E2	28	THR
1	E2	91	ILE
1	E4	28	THR
1	E4	91	ILE
1	E5	28	THR
1	E5	91	ILE
1	F1	50	VAL
1	F2	50	VAL
1	F3	50	VAL
1	F4	50	VAL
1	F5	50	VAL
1	G1	71	VAL
1	G2	9	LEU
1	G2	48	VAL
1	G2	84	VAL
1	G2	97	GLN
1	G3	71	VAL
1	G4	71	VAL
1	G5	71	VAL
1	H1	48	VAL

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Mol	Chain	Res	Type
1	H2	48	VAL
1	H3	48	VAL
1	H4	48	VAL
1	H5	48	VAL
1	J1	28	THR
1	J1	48	VAL
1	J1	73	ASP
1	J1	84	VAL
1	J1	86	SER
1	J2	28	THR
1	J2	48	VAL
1	J2	73	ASP
1	J2	75	LEU
1	J2	84	VAL
1	J2	86	SER
1	J4	28	THR
1	J4	48	VAL
1	J4	73	ASP
1	J4	84	VAL
1	J4	86	SER
1	J5	28	THR
1	J5	48	VAL
1	J5	73	ASP
1	J5	84	VAL
1	J5	86	SER
1	K1	35	LEU
1	K1	94	LYS
1	K2	35	LEU
1	K2	94	LYS
1	K3	35	LEU
1	K3	94	LYS
1	K4	35	LEU
1	K4	94	LYS
1	K5	35	LEU
1	K5	94	LYS
1	L1	12	ILE
1	L1	84	VAL
1	L2	12	ILE
1	L2	84	VAL
1	L4	12	ILE
1	L4	84	VAL
1	L5	12	ILE

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Mol	Chain	Res	Type
1	L5	84	VAL
1	M1	73	ASP
1	M2	73	ASP
1	M3	73	ASP
1	M4	73	ASP
1	M5	73	ASP
1	N1	48	VAL
1	N1	50	VAL
1	N2	48	VAL
1	N2	50	VAL
1	N3	48	VAL
1	N3	50	VAL
1	N4	48	VAL
1	N4	50	VAL
1	N5	48	VAL
1	N5	50	VAL
2	P1	9	THR
2	P1	10	LEU
2	P1	13	THR
2	P1	28	TRP
2	P1	60	GLU
2	P1	65	LYS
2	P2	9	THR
2	P2	10	LEU
2	P2	13	THR
2	P2	28	TRP
2	P3	9	THR
2	P3	10	LEU
2	P3	13	THR
2	P3	28	TRP
2	P4	9	THR
2	P4	10	LEU
2	P4	13	THR
2	P4	28	TRP
2	P4	60	GLU
2	P5	9	THR
2	P5	10	LEU
2	P5	13	THR
2	P5	28	TRP
2	P5	60	GLU
3	X1	616	ILE
3	X1	636	GLN

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Mol	Chain	Res	Type
3	X1	644	VAL
3	X1	647	GLN
3	X1	648	GLN
3	X1	691	ILE
3	X1	692	GLN
3	X1	712	ARG
3	X1	721	THR
3	X1	724	ILE
3	X1	727	THR
3	X2	615	ILE
3	X2	616	ILE
3	X2	647	GLN
3	X2	691	ILE
3	X2	692	GLN
3	X2	718	MET
3	X2	729	GLU
3	X2	730	PHE
3	Y1	727	THR
3	Y1	796	THR
3	Y1	800	TRP
3	Y1	827	VAL
3	Y1	852	SER
3	Y2	702	ILE
3	Y2	713	ILE
3	Y2	796	THR
3	Y2	800	TRP
3	Y2	827	VAL
3	Y2	852	SER
3	Y4	702	ILE
3	Y4	713	ILE
3	Y4	721	THR
3	Y4	727	THR
3	Y4	796	THR
3	Y4	800	TRP
3	Y4	827	VAL
3	Y4	852	SER
3	Y5	706	ASP
3	Y5	719	LEU
3	Y5	727	THR
3	Y5	732	HIS
3	Y5	796	THR
3	Y5	800	TRP

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Mol	Chain	Res	Type
3	Y5	827	VAL
3	Y5	852	SER
1	A0	38	ARG
1	A0	84	VAL
1	A6	38	ARG
1	A6	84	VAL
1	A7	38	ARG
1	A7	84	VAL
1	A8	38	ARG
1	A8	84	VAL
1	A9	38	ARG
1	A9	84	VAL
1	B0	84	VAL
1	B6	84	VAL
1	B7	84	VAL
1	B8	84	VAL
1	B9	84	VAL
1	C0	7	ILE
1	C8	7	ILE
1	C9	7	ILE
1	D0	13	GLU
1	D0	18	VAL
1	D0	34	ARG
1	D0	48	VAL
1	D0	66	ASP
1	D0	97	GLN
1	D8	13	GLU
1	D8	18	VAL
1	D8	34	ARG
1	D8	48	VAL
1	D8	66	ASP
1	D8	97	GLN
1	D9	13	GLU
1	D9	18	VAL
1	D9	34	ARG
1	D9	48	VAL
1	D9	66	ASP
1	D9	97	GLN
1	E0	28	THR
1	E0	91	ILE
1	E6	28	THR
1	E6	91	ILE

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Mol	Chain	Res	Type
1	E7	28	THR
1	E7	91	ILE
1	E8	28	THR
1	E8	91	ILE
1	E9	28	THR
1	E9	91	ILE
1	F0	50	VAL
1	F6	50	VAL
1	F7	50	VAL
1	F8	50	VAL
1	F9	50	VAL
1	G0	48	VAL
1	G0	50	VAL
1	G0	68	CYS
1	G0	84	VAL
1	G0	87	GLU
1	G6	71	VAL
1	G7	71	VAL
1	G8	71	VAL
1	G9	71	VAL
1	H0	48	VAL
1	H6	48	VAL
1	H7	48	VAL
1	H8	48	VAL
1	H9	48	VAL
1	J0	28	THR
1	J0	48	VAL
1	J0	73	ASP
1	J0	84	VAL
1	J0	86	SER
1	J7	28	THR
1	J7	48	VAL
1	J7	73	ASP
1	J7	75	LEU
1	J7	84	VAL
1	J7	86	SER
1	J8	28	THR
1	J8	48	VAL
1	J8	73	ASP
1	J8	84	VAL
1	J8	86	SER
1	J9	28	THR

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Mol	Chain	Res	Type
1	J9	48	VAL
1	J9	73	ASP
1	J9	75	LEU
1	J9	84	VAL
1	J9	86	SER
1	K0	35	LEU
1	K0	94	LYS
1	K6	35	LEU
1	K6	94	LYS
1	K7	35	LEU
1	K7	94	LYS
1	K8	35	LEU
1	K8	94	LYS
1	K9	35	LEU
1	K9	94	LYS
1	L0	12	ILE
1	L0	84	VAL
1	L6	12	ILE
1	L6	84	VAL
1	L7	12	ILE
1	L7	84	VAL
1	L8	12	ILE
1	L8	84	VAL
1	L9	12	ILE
1	L9	84	VAL
1	M0	73	ASP
1	M6	73	ASP
1	M7	73	ASP
1	M8	73	ASP
1	M9	73	ASP
1	N0	48	VAL
1	N0	50	VAL
1	N6	48	VAL
1	N6	50	VAL
1	N7	48	VAL
1	N7	50	VAL
1	N8	48	VAL
1	N8	50	VAL
1	N9	48	VAL
1	N9	50	VAL
2	P6	9	THR
2	P6	10	LEU

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Mol	Chain	Res	Type
2	P6	13	THR
2	P6	28	TRP
2	P6	53	VAL
2	P6	55	SER
2	P7	9	THR
2	P7	10	LEU
2	P7	13	THR
2	P7	28	TRP
2	P7	60	GLU
2	P8	9	THR
2	P8	10	LEU
2	P8	13	THR
2	P8	28	TRP
2	P8	53	VAL
2	P9	9	THR
2	P9	10	LEU
2	P9	13	THR
2	P9	28	TRP
2	P0	9	THR
2	P0	10	LEU
2	P0	13	THR
2	P0	28	TRP
3	X6	637	LEU
3	X6	641	ASP
3	X6	691	ILE
3	X6	724	ILE
3	X9	636	GLN
3	X9	637	LEU
3	X9	685	MET
3	X9	689	PHE
3	X9	691	ILE
3	X9	692	GLN
3	X9	693	THR
3	X9	724	ILE
3	X0	615	ILE
3	X0	616	ILE
3	X0	628	THR
3	X0	644	VAL
3	X0	648	GLN
3	X0	691	ILE
3	X0	692	GLN
3	X0	721	THR

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Mol	Chain	Res	Type
3	X0	724	ILE
3	Y6	702	ILE
3	Y6	713	ILE
3	Y6	727	THR
3	Y6	796	THR
3	Y6	800	TRP
3	Y6	827	VAL
3	Y6	852	SER
3	Y7	713	ILE
3	Y7	796	THR
3	Y7	800	TRP
3	Y7	827	VAL
3	Y7	852	SER
3	Y8	702	ILE
3	Y8	727	THR
3	Y8	732	HIS
3	Y8	796	THR
3	Y8	800	TRP
3	Y8	827	VAL
3	Y8	852	SER
3	Y9	796	THR
3	Y9	800	TRP
3	Y9	827	VAL
3	Y9	852	SER
3	Y0	713	ILE
3	Y0	719	LEU
3	Y0	727	THR
3	Y0	732	HIS
3	Y0	796	THR
3	Y0	800	TRP
3	Y0	827	VAL
3	Y0	852	SER
1	AP	38	ARG
1	AP	84	VAL
1	AQ	38	ARG
1	AQ	84	VAL
1	AR	38	ARG
1	AR	84	VAL
1	AS	38	ARG
1	AS	84	VAL
1	AT	38	ARG
1	AT	84	VAL

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Mol	Chain	Res	Type
1	BP	84	VAL
1	BQ	84	VAL
1	BR	84	VAL
1	BS	84	VAL
1	CP	7	ILE
1	CR	7	ILE
1	CS	7	ILE
1	DP	13	GLU
1	DP	18	VAL
1	DP	34	ARG
1	DP	48	VAL
1	DP	66	ASP
1	DP	97	GLN
1	DQ	13	GLU
1	DQ	18	VAL
1	DQ	34	ARG
1	DQ	48	VAL
1	DQ	66	ASP
1	DQ	97	GLN
1	DT	13	GLU
1	DT	18	VAL
1	DT	34	ARG
1	DT	48	VAL
1	DT	66	ASP
1	DT	97	GLN
1	EP	28	THR
1	EP	91	ILE
1	EQ	28	THR
1	EQ	91	ILE
1	ER	28	THR
1	ER	91	ILE
1	ES	28	THR
1	ES	91	ILE
1	ET	28	THR
1	ET	91	ILE
1	FP	50	VAL
1	FQ	50	VAL
1	FR	50	VAL
1	FS	50	VAL
1	FT	50	VAL
1	GP	71	VAL
1	GQ	9	LEU

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Mol	Chain	Res	Type
1	GQ	48	VAL
1	GQ	84	VAL
1	GQ	97	GLN
1	GR	71	VAL
1	GS	71	VAL
1	GT	71	VAL
1	HP	48	VAL
1	HQ	48	VAL
1	HR	48	VAL
1	HS	48	VAL
1	HT	48	VAL
1	JP	28	THR
1	JP	48	VAL
1	JP	73	ASP
1	JP	84	VAL
1	JP	86	SER
1	JQ	28	THR
1	JQ	48	VAL
1	JQ	73	ASP
1	JQ	75	LEU
1	JQ	84	VAL
1	JQ	86	SER
1	JR	28	THR
1	JR	48	VAL
1	JR	73	ASP
1	JR	84	VAL
1	JR	86	SER
1	JS	28	THR
1	JS	48	VAL
1	JS	73	ASP
1	JS	75	LEU
1	JS	84	VAL
1	JS	86	SER
1	JT	28	THR
1	JT	48	VAL
1	JT	73	ASP
1	JT	84	VAL
1	JT	86	SER
1	KP	35	LEU
1	KP	94	LYS
1	KQ	35	LEU
1	KQ	94	LYS

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Mol	Chain	Res	Type
1	KR	35	LEU
1	KR	94	LYS
1	KS	35	LEU
1	KS	94	LYS
1	KT	35	LEU
1	KT	94	LYS
1	LP	12	ILE
1	LP	84	VAL
1	LQ	12	ILE
1	LQ	84	VAL
1	LR	12	ILE
1	LR	84	VAL
1	LS	12	ILE
1	LS	84	VAL
1	LT	12	ILE
1	LT	84	VAL
1	MP	73	ASP
1	MQ	73	ASP
1	MR	73	ASP
1	MS	73	ASP
1	MT	73	ASP
1	NP	48	VAL
1	NP	50	VAL
1	NQ	48	VAL
1	NQ	50	VAL
1	NR	48	VAL
1	NR	50	VAL
1	NS	48	VAL
1	NS	50	VAL
1	NT	48	VAL
1	NT	50	VAL
2	PP	9	THR
2	PP	10	LEU
2	PP	13	THR
2	PP	28	TRP
2	PP	60	GLU
2	PQ	9	THR
2	PQ	10	LEU
2	PQ	13	THR
2	PQ	28	TRP
2	PQ	60	GLU
2	PR	9	THR

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Mol	Chain	Res	Type
2	PR	10	LEU
2	PR	13	THR
2	PR	28	TRP
2	PR	53	VAL
2	PS	27	VAL
2	PS	36	GLN
2	PS	45	ILE
2	PS	53	VAL
2	PT	9	THR
2	PT	10	LEU
2	PT	13	THR
2	PT	28	TRP
2	PT	53	VAL
3	XP	621	VAL
3	XP	628	THR
3	XP	637	LEU
3	XP	647	GLN
3	XP	691	ILE
3	XP	700	ASN
3	XP	718	MET
3	XP	729	GLU
3	XQ	616	ILE
3	XQ	637	LEU
3	XQ	691	ILE
3	XQ	693	THR
3	XQ	725	THR
3	XR	621	VAL
3	XR	622	ASP
3	XR	643	TYR
3	XR	647	GLN
3	XR	691	ILE
3	XR	693	THR
3	XR	725	THR
3	XT	621	VAL
3	XT	625	ASP
3	XT	627	VAL
3	XT	632	ILE
3	XT	637	LEU
3	XT	644	VAL
3	XT	691	ILE
3	XT	693	THR
3	XT	725	THR

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Mol	Chain	Res	Type
3	YP	718	MET
3	YP	727	THR
3	YP	796	THR
3	YP	800	TRP
3	YP	827	VAL
3	YP	852	SER
3	YQ	702	ILE
3	YQ	719	LEU
3	YQ	727	THR
3	YQ	796	THR
3	YQ	800	TRP
3	YQ	827	VAL
3	YQ	852	SER
3	YR	719	LEU
3	YR	727	THR
3	YR	796	THR
3	YR	800	TRP
3	YR	827	VAL
3	YR	852	SER
3	YS	702	ILE
3	YS	713	ILE
3	YS	719	LEU
3	YS	732	HIS
3	YS	796	THR
3	YS	800	TRP
3	YS	827	VAL
3	YS	852	SER
3	YT	712	ARG
3	YT	729	GLU
3	YT	732	HIS
3	YT	796	THR
3	YT	800	TRP
3	YT	827	VAL
3	YT	852	SER
1	AG	38	ARG
1	AG	84	VAL
1	AH	38	ARG
1	AH	84	VAL
1	AI	38	ARG
1	AI	84	VAL
1	AJ	38	ARG
1	AJ	84	VAL

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Mol	Chain	Res	Type
1	AK	38	ARG
1	AK	84	VAL
1	BG	84	VAL
1	BH	84	VAL
1	BI	84	VAL
1	BJ	84	VAL
1	BK	84	VAL
1	CG	7	ILE
1	CH	7	ILE
1	CJ	7	ILE
1	DG	13	GLU
1	DG	18	VAL
1	DG	34	ARG
1	DG	48	VAL
1	DG	66	ASP
1	DG	97	GLN
1	DK	13	GLU
1	DK	18	VAL
1	DK	34	ARG
1	DK	48	VAL
1	DK	66	ASP
1	DK	97	GLN
1	EG	28	THR
1	EG	91	ILE
1	EH	28	THR
1	EH	91	ILE
1	EJ	28	THR
1	EJ	91	ILE
1	EK	28	THR
1	EK	91	ILE
1	FG	50	VAL
1	FH	50	VAL
1	FH	88	VAL
1	FI	50	VAL
1	FI	84	VAL
1	FJ	50	VAL
1	FK	50	VAL
1	GG	71	VAL
1	GH	9	LEU
1	GH	48	VAL
1	GH	84	VAL
1	GH	97	GLN

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Mol	Chain	Res	Type
1	GI	71	VAL
1	GJ	71	VAL
1	GK	71	VAL
1	HG	48	VAL
1	HH	48	VAL
1	HI	48	VAL
1	HJ	48	VAL
1	HK	48	VAL
1	JG	28	THR
1	JG	48	VAL
1	JG	73	ASP
1	JG	75	LEU
1	JG	84	VAL
1	JG	86	SER
1	JH	28	THR
1	JH	48	VAL
1	JH	73	ASP
1	JH	75	LEU
1	JH	84	VAL
1	JH	86	SER
1	JJ	28	THR
1	JJ	48	VAL
1	JJ	73	ASP
1	JJ	84	VAL
1	JJ	86	SER
1	JK	28	THR
1	JK	48	VAL
1	JK	73	ASP
1	JK	84	VAL
1	JK	86	SER
1	KG	35	LEU
1	KG	94	LYS
1	KH	35	LEU
1	KH	94	LYS
1	KJ	35	LEU
1	KJ	94	LYS
1	KK	35	LEU
1	KK	94	LYS
1	LG	12	ILE
1	LG	84	VAL
1	LH	12	ILE
1	LH	84	VAL

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Mol	Chain	Res	Type
1	LJ	12	ILE
1	LJ	84	VAL
1	LK	12	ILE
1	LK	84	VAL
1	MG	73	ASP
1	MH	73	ASP
1	MJ	73	ASP
1	NG	48	VAL
1	NG	50	VAL
1	NH	48	VAL
1	NH	50	VAL
1	NJ	48	VAL
1	NJ	50	VAL
1	NK	48	VAL
1	NK	50	VAL
2	PG	9	THR
2	PG	10	LEU
2	PG	13	THR
2	PG	28	TRP
2	PG	60	GLU
2	PG	65	LYS
2	PH	9	THR
2	PH	10	LEU
2	PH	13	THR
2	PH	28	TRP
2	PI	9	THR
2	PI	10	LEU
2	PI	13	THR
2	PI	28	TRP
2	PJ	9	THR
2	PJ	10	LEU
2	PJ	13	THR
2	PJ	28	TRP
2	PJ	60	GLU
2	PK	9	THR
2	PK	10	LEU
2	PK	13	THR
2	PK	28	TRP
2	PK	60	GLU
3	XG	616	ILE
3	XG	636	GLN
3	XG	644	VAL

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Mol	Chain	Res	Type
3	XG	647	GLN
3	XG	648	GLN
3	XG	691	ILE
3	XG	692	GLN
3	XG	712	ARG
3	XG	721	THR
3	XG	724	ILE
3	XG	727	THR
3	XH	615	ILE
3	XH	616	ILE
3	XH	647	GLN
3	XH	691	ILE
3	XH	692	GLN
3	XH	718	MET
3	XH	729	GLU
3	XH	730	PHE
3	XK	626	LEU
3	XK	644	VAL
3	XK	691	ILE
3	XK	693	THR
3	XK	718	MET
3	XK	724	ILE
3	XK	730	PHE
3	YG	727	THR
3	YG	796	THR
3	YG	800	TRP
3	YG	827	VAL
3	YG	852	SER
3	YH	702	ILE
3	YH	713	ILE
3	YH	796	THR
3	YH	800	TRP
3	YH	827	VAL
3	YH	852	SER
3	YI	713	ILE
3	YI	719	LEU
3	YI	727	THR
3	YI	796	THR
3	YI	800	TRP
3	YI	827	VAL
3	YI	852	SER
3	YJ	702	ILE

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Mol	Chain	Res	Type
3	YJ	713	ILE
3	YJ	721	THR
3	YJ	727	THR
3	YJ	796	THR
3	YJ	800	TRP
3	YJ	827	VAL
3	YJ	852	SER
3	YK	706	ASP
3	YK	719	LEU
3	YK	727	THR
3	YK	732	HIS
3	YK	796	THR
3	YK	800	TRP
3	YK	827	VAL
3	YK	852	SER
1	AF	38	ARG
1	AF	84	VAL
1	AL	38	ARG
1	AL	88	VAL
1	AM	38	ARG
1	AM	84	VAL
1	AN	38	ARG
1	AN	84	VAL
1	AO	38	ARG
1	AO	84	VAL
1	BF	84	VAL
1	BL	84	VAL
1	BM	84	VAL
1	BN	84	VAL
1	CF	7	ILE
1	CN	7	ILE
1	CO	7	ILE
1	DL	13	GLU
1	DL	18	VAL
1	DL	34	ARG
1	DL	48	VAL
1	DL	66	ASP
1	DL	97	GLN
1	DN	13	GLU
1	DN	18	VAL
1	DN	34	ARG
1	DN	48	VAL

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Mol	Chain	Res	Type
1	DN	66	ASP
1	DN	97	GLN
1	DO	13	GLU
1	DO	18	VAL
1	DO	34	ARG
1	DO	48	VAL
1	DO	66	ASP
1	DO	97	GLN
1	EM	28	THR
1	EM	91	ILE
1	EN	28	THR
1	EN	91	ILE
1	EO	28	THR
1	EO	91	ILE
1	FM	50	VAL
1	FN	50	VAL
1	FO	50	VAL
1	GF	48	VAL
1	GF	50	VAL
1	GF	68	CYS
1	GF	94	LYS
1	GL	71	VAL
1	GM	71	VAL
1	GN	71	VAL
1	GO	71	VAL
1	HF	48	VAL
1	HL	48	VAL
1	HM	48	VAL
1	HN	48	VAL
1	HO	48	VAL
1	JL	28	THR
1	JL	48	VAL
1	JL	73	ASP
1	JL	84	VAL
1	JL	86	SER
1	JM	28	THR
1	JM	48	VAL
1	JM	73	ASP
1	JM	75	LEU
1	JM	84	VAL
1	JM	86	SER
1	JN	28	THR

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Mol	Chain	Res	Type
1	JN	48	VAL
1	JN	73	ASP
1	JN	84	VAL
1	JN	86	SER
1	JO	28	THR
1	JO	48	VAL
1	JO	73	ASP
1	JO	75	LEU
1	JO	84	VAL
1	JO	86	SER
1	KF	35	LEU
1	KF	94	LYS
1	KL	35	LEU
1	KL	94	LYS
1	KM	35	LEU
1	KM	94	LYS
1	KN	35	LEU
1	KN	94	LYS
1	KO	35	LEU
1	KO	94	LYS
1	LF	12	ILE
1	LF	84	VAL
1	LL	12	ILE
1	LL	84	VAL
1	LO	12	ILE
1	LO	84	VAL
1	ML	73	ASP
1	MM	73	ASP
1	MN	73	ASP
1	MO	73	ASP
1	NF	48	VAL
1	NF	50	VAL
1	NM	48	VAL
1	NM	50	VAL
1	NN	48	VAL
1	NN	50	VAL
1	NO	48	VAL
1	NO	50	VAL
2	PL	9	THR
2	PL	10	LEU
2	PL	13	THR
2	PL	28	TRP

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Mol	Chain	Res	Type
2	PL	53	VAL
2	PL	55	SER
2	PM	9	THR
2	PM	10	LEU
2	PM	13	THR
2	PM	28	TRP
2	PM	60	GLU
2	PN	9	THR
2	PN	10	LEU
2	PN	13	THR
2	PN	28	TRP
2	PN	53	VAL
2	PO	9	THR
2	PO	10	LEU
2	PO	13	THR
2	PO	28	TRP
2	PF	9	THR
2	PF	10	LEU
2	PF	13	THR
2	PF	28	TRP
3	XL	637	LEU
3	XL	641	ASP
3	XL	691	ILE
3	XL	724	ILE
3	XO	636	GLN
3	XO	637	LEU
3	XO	685	MET
3	XO	689	PHE
3	XO	691	ILE
3	XO	692	GLN
3	XO	693	THR
3	XO	724	ILE
3	XF	615	ILE
3	XF	616	ILE
3	XF	628	THR
3	XF	644	VAL
3	XF	648	GLN
3	XF	691	ILE
3	XF	692	GLN
3	XF	721	THR
3	XF	724	ILE
3	YL	702	ILE

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Mol	Chain	Res	Type
3	YL	713	ILE
3	YL	727	THR
3	YL	796	THR
3	YL	800	TRP
3	YL	827	VAL
3	YL	852	SER
3	YM	713	ILE
3	YM	796	THR
3	YM	800	TRP
3	YM	827	VAL
3	YM	852	SER
3	YN	702	ILE
3	YN	727	THR
3	YN	732	HIS
3	YN	796	THR
3	YN	800	TRP
3	YN	827	VAL
3	YN	852	SER
3	YO	796	THR
3	YO	800	TRP
3	YO	827	VAL
3	YO	852	SER
3	YF	713	ILE
3	YF	719	LEU
3	YF	727	THR
3	YF	732	HIS
3	YF	796	THR
3	YF	800	TRP
3	YF	827	VAL
3	YF	852	SER
1	Ae	38	ARG
1	Ae	84	VAL
1	Af	38	ARG
1	Af	84	VAL
1	Ag	38	ARG
1	Ag	84	VAL
1	Ah	38	ARG
1	Ah	84	VAL
1	Ai	38	ARG
1	Ai	84	VAL
1	Be	84	VAL
1	Bf	84	VAL

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Mol	Chain	Res	Type
1	Bg	84	VAL
1	Bh	84	VAL
1	Bi	84	VAL
1	Ce	7	ILE
1	Cg	7	ILE
1	Ch	7	ILE
1	De	13	GLU
1	De	18	VAL
1	De	34	ARG
1	De	48	VAL
1	De	66	ASP
1	De	97	GLN
1	Dg	13	GLU
1	Dg	18	VAL
1	Dg	34	ARG
1	Dg	48	VAL
1	Dg	66	ASP
1	Dg	97	GLN
1	Di	13	GLU
1	Di	18	VAL
1	Di	34	ARG
1	Di	48	VAL
1	Di	66	ASP
1	Di	97	GLN
1	Ee	28	THR
1	Ee	91	ILE
1	Ef	28	THR
1	Ef	91	ILE
1	Eg	28	THR
1	Eg	91	ILE
1	Eh	28	THR
1	Eh	91	ILE
1	Ei	28	THR
1	Ei	91	ILE
1	Fe	50	VAL
1	Ff	50	VAL
1	Fg	50	VAL
1	Fi	50	VAL
1	Ge	71	VAL
1	Gf	9	LEU
1	Gf	48	VAL
1	Gf	84	VAL

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Mol	Chain	Res	Type
1	Gf	97	GLN
1	Gg	71	VAL
1	Gh	71	VAL
1	Gi	71	VAL
1	He	48	VAL
1	Hf	48	VAL
1	Hg	48	VAL
1	Hh	48	VAL
1	Hi	48	VAL
1	Je	28	THR
1	Je	48	VAL
1	Je	73	ASP
1	Je	84	VAL
1	Je	86	SER
1	Jf	28	THR
1	Jf	48	VAL
1	Jf	73	ASP
1	Jf	75	LEU
1	Jf	84	VAL
1	Jf	86	SER
1	Jg	28	THR
1	Jg	48	VAL
1	Jg	73	ASP
1	Jg	84	VAL
1	Jg	86	SER
1	Jh	28	THR
1	Jh	48	VAL
1	Jh	73	ASP
1	Jh	84	VAL
1	Jh	86	SER
1	Ji	28	THR
1	Ji	48	VAL
1	Ji	73	ASP
1	Ji	84	VAL
1	Ji	86	SER
1	Ke	35	LEU
1	Ke	94	LYS
1	Kf	35	LEU
1	Kf	94	LYS
1	Kg	35	LEU
1	Kg	94	LYS
1	Kh	35	LEU

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Mol	Chain	Res	Type
1	Kh	94	LYS
1	Ki	35	LEU
1	Ki	94	LYS
1	Le	12	ILE
1	Le	84	VAL
1	Lf	12	ILE
1	Lf	84	VAL
1	Lg	12	ILE
1	Lg	84	VAL
1	Lh	12	ILE
1	Lh	84	VAL
1	Li	12	ILE
1	Li	84	VAL
1	Me	73	ASP
1	Mf	73	ASP
1	Mg	73	ASP
1	Mh	73	ASP
1	Mi	73	ASP
1	Ne	48	VAL
1	Ne	50	VAL
1	Nf	48	VAL
1	Nf	50	VAL
1	Ng	48	VAL
1	Ng	50	VAL
1	Nh	48	VAL
1	Nh	50	VAL
1	Ni	48	VAL
1	Ni	50	VAL
2	Pe	9	THR
2	Pe	10	LEU
2	Pe	13	THR
2	Pe	28	TRP
2	Pe	60	GLU
2	Pf	9	THR
2	Pf	10	LEU
2	Pf	13	THR
2	Pf	28	TRP
2	Pf	60	GLU
2	Pg	9	THR
2	Pg	10	LEU
2	Pg	13	THR
2	Pg	28	TRP

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Mol	Chain	Res	Type
2	Pg	53	VAL
2	Ph	27	VAL
2	Ph	36	GLN
2	Ph	45	ILE
2	Ph	53	VAL
2	Pi	9	THR
2	Pi	10	LEU
2	Pi	13	THR
2	Pi	28	TRP
2	Pi	53	VAL
3	Xe	621	VAL
3	Xe	628	THR
3	Xe	637	LEU
3	Xe	647	GLN
3	Xe	691	ILE
3	Xe	700	ASN
3	Xe	718	MET
3	Xe	729	GLU
3	Xf	616	ILE
3	Xf	637	LEU
3	Xf	691	ILE
3	Xf	693	THR
3	Xf	725	THR
3	Xg	621	VAL
3	Xg	622	ASP
3	Xg	643	TYR
3	Xg	647	GLN
3	Xg	691	ILE
3	Xg	693	THR
3	Xg	725	THR
3	Xi	621	VAL
3	Xi	625	ASP
3	Xi	627	VAL
3	Xi	632	ILE
3	Xi	637	LEU
3	Xi	644	VAL
3	Xi	691	ILE
3	Xi	693	THR
3	Xi	725	THR
3	Ye	718	MET
3	Ye	727	THR
3	Ye	796	THR

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Mol	Chain	Res	Type
3	Ye	800	TRP
3	Ye	827	VAL
3	Ye	852	SER
3	Yf	702	ILE
3	Yf	719	LEU
3	Yf	727	THR
3	Yf	796	THR
3	Yf	800	TRP
3	Yf	827	VAL
3	Yf	852	SER
3	Yg	719	LEU
3	Yg	727	THR
3	Yg	796	THR
3	Yg	800	TRP
3	Yg	827	VAL
3	Yg	852	SER
3	Yh	702	ILE
3	Yh	713	ILE
3	Yh	719	LEU
3	Yh	732	HIS
3	Yh	796	THR
3	Yh	800	TRP
3	Yh	827	VAL
3	Yh	852	SER
3	Yi	712	ARG
3	Yi	729	GLU
3	Yi	732	HIS
3	Yi	796	THR
3	Yi	800	TRP
3	Yi	827	VAL
3	Yi	852	SER
1	AV	38	ARG
1	AV	84	VAL
1	AW	38	ARG
1	AW	84	VAL
1	AX	38	ARG
1	AX	84	VAL
1	AX	88	VAL
1	AY	38	ARG
1	AY	84	VAL
1	AZ	38	ARG
1	AZ	84	VAL

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Mol	Chain	Res	Type
1	BV	84	VAL
1	BW	84	VAL
1	BX	84	VAL
1	BY	84	VAL
1	BZ	84	VAL
1	CV	7	ILE
1	CW	7	ILE
1	CX	7	ILE
1	CY	7	ILE
1	DV	13	GLU
1	DV	18	VAL
1	DV	34	ARG
1	DV	48	VAL
1	DV	66	ASP
1	DV	97	GLN
1	DW	13	GLU
1	DW	18	VAL
1	DW	34	ARG
1	DW	48	VAL
1	DW	66	ASP
1	DW	88	VAL
1	DX	13	GLU
1	DX	18	VAL
1	DX	34	ARG
1	DX	48	VAL
1	DX	66	ASP
1	DX	97	GLN
1	DZ	13	GLU
1	DZ	18	VAL
1	DZ	34	ARG
1	DZ	48	VAL
1	DZ	66	ASP
1	DZ	97	GLN
1	EV	28	THR
1	EV	91	ILE
1	EW	28	THR
1	EW	91	ILE
1	EX	28	THR
1	EX	91	ILE
1	EY	28	THR
1	EY	91	ILE
1	EZ	28	THR

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Mol	Chain	Res	Type
1	EZ	91	ILE
1	FV	50	VAL
1	FW	50	VAL
1	FW	84	VAL
1	FX	50	VAL
1	FZ	50	VAL
1	GV	71	VAL
1	GW	9	LEU
1	GW	48	VAL
1	GW	84	VAL
1	GW	88	VAL
1	GX	71	VAL
1	GY	71	VAL
1	GZ	71	VAL
1	HV	48	VAL
1	HW	48	VAL
1	HX	48	VAL
1	HY	48	VAL
1	HZ	48	VAL
1	JV	28	THR
1	JV	48	VAL
1	JV	73	ASP
1	JV	84	VAL
1	JV	86	SER
1	JW	28	THR
1	JW	48	VAL
1	JW	73	ASP
1	JW	75	LEU
1	JW	84	VAL
1	JW	86	SER
1	JX	28	THR
1	JX	48	VAL
1	JX	73	ASP
1	JX	84	VAL
1	JX	86	SER
1	JZ	28	THR
1	JZ	48	VAL
1	JZ	73	ASP
1	JZ	75	LEU
1	JZ	84	VAL
1	JZ	86	SER
1	KV	35	LEU

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Mol	Chain	Res	Type
1	KV	94	LYS
1	KW	35	LEU
1	KW	94	LYS
1	KX	35	LEU
1	KX	94	LYS
1	KY	35	LEU
1	KY	94	LYS
1	KZ	35	LEU
1	KZ	94	LYS
1	LV	12	ILE
1	LV	84	VAL
1	LW	12	ILE
1	LW	84	VAL
1	LX	12	ILE
1	LX	84	VAL
1	LY	12	ILE
1	LY	84	VAL
1	LZ	12	ILE
1	LZ	84	VAL
1	MV	73	ASP
1	MW	73	ASP
1	MX	73	ASP
1	MY	73	ASP
1	MZ	73	ASP
1	NV	48	VAL
1	NV	50	VAL
1	NW	48	VAL
1	NW	50	VAL
1	NX	48	VAL
1	NX	50	VAL
1	NY	48	VAL
1	NY	50	VAL
1	NZ	48	VAL
1	NZ	50	VAL
2	PV	9	THR
2	PV	10	LEU
2	PV	13	THR
2	PV	28	TRP
2	PV	60	GLU
2	PV	65	LYS
2	PW	9	THR
2	PW	10	LEU

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Mol	Chain	Res	Type
2	PW	13	THR
2	PW	28	TRP
2	PX	9	THR
2	PX	10	LEU
2	PX	13	THR
2	PX	28	TRP
2	PY	9	THR
2	PY	10	LEU
2	PY	13	THR
2	PY	28	TRP
2	PY	60	GLU
2	PZ	9	THR
2	PZ	10	LEU
2	PZ	13	THR
2	PZ	28	TRP
2	PZ	60	GLU
3	XV	616	ILE
3	XV	636	GLN
3	XV	644	VAL
3	XV	647	GLN
3	XV	648	GLN
3	XV	691	ILE
3	XV	692	GLN
3	XV	712	ARG
3	XV	721	THR
3	XV	724	ILE
3	XV	727	THR
3	XW	615	ILE
3	XW	616	ILE
3	XW	647	GLN
3	XW	691	ILE
3	XW	692	GLN
3	XW	718	MET
3	XW	729	GLU
3	XW	730	PHE
3	XZ	626	LEU
3	XZ	644	VAL
3	XZ	691	ILE
3	XZ	693	THR
3	XZ	718	MET
3	XZ	724	ILE
3	XZ	730	PHE

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Mol	Chain	Res	Type
3	YV	727	THR
3	YV	796	THR
3	YV	800	TRP
3	YV	827	VAL
3	YV	852	SER
3	YW	702	ILE
3	YW	713	ILE
3	YW	796	THR
3	YW	800	TRP
3	YW	827	VAL
3	YW	852	SER
3	YX	713	ILE
3	YX	719	LEU
3	YX	727	THR
3	YX	796	THR
3	YX	800	TRP
3	YX	827	VAL
3	YX	852	SER
3	YY	702	ILE
3	YY	713	ILE
3	YY	721	THR
3	YY	727	THR
3	YY	796	THR
3	YY	800	TRP
3	YY	827	VAL
3	YY	852	SER
3	YZ	706	ASP
3	YZ	719	LEU
3	YZ	727	THR
3	YZ	732	HIS
3	YZ	796	THR
3	YZ	800	TRP
3	YZ	827	VAL
3	YZ	852	SER
1	AU	38	ARG
1	AU	84	VAL
1	Aa	38	ARG
1	Aa	84	VAL
1	Ab	38	ARG
1	Ab	84	VAL
1	Ac	38	ARG
1	Ac	84	VAL

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Mol	Chain	Res	Type
1	Ad	38	ARG
1	Ad	84	VAL
1	BU	84	VAL
1	Bb	84	VAL
1	Bc	84	VAL
1	Bd	84	VAL
1	CU	7	ILE
1	Ca	7	ILE
1	Cc	7	ILE
1	Da	13	GLU
1	Da	18	VAL
1	Da	34	ARG
1	Da	48	VAL
1	Da	66	ASP
1	Da	97	GLN
1	Dc	13	GLU
1	Dc	18	VAL
1	Dc	34	ARG
1	Dc	48	VAL
1	Dc	66	ASP
1	Dc	97	GLN
1	Dd	13	GLU
1	Dd	18	VAL
1	Dd	34	ARG
1	Dd	48	VAL
1	Dd	66	ASP
1	Dd	97	GLN
1	EU	28	THR
1	EU	91	ILE
1	Ea	28	THR
1	Ea	91	ILE
1	Eb	28	THR
1	Eb	91	ILE
1	Ec	28	THR
1	Ec	91	ILE
1	Ed	28	THR
1	Ed	91	ILE
1	FU	50	VAL
1	FU	84	VAL
1	FU	88	VAL
1	FU	92	LEU
1	Fa	50	VAL

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Mol	Chain	Res	Type
1	Fb	50	VAL
1	Fc	50	VAL
1	Fd	50	VAL
1	GU	48	VAL
1	GU	50	VAL
1	GU	68	CYS
1	GU	84	VAL
1	GU	87	GLU
1	Ga	71	VAL
1	Gb	71	VAL
1	Gc	71	VAL
1	Gd	71	VAL
1	HU	48	VAL
1	Ha	48	VAL
1	Hb	48	VAL
1	Hc	48	VAL
1	Hd	48	VAL
1	Ja	28	THR
1	Ja	48	VAL
1	Ja	73	ASP
1	Ja	84	VAL
1	Ja	86	SER
1	Jb	28	THR
1	Jb	48	VAL
1	Jb	73	ASP
1	Jb	75	LEU
1	Jb	84	VAL
1	Jb	86	SER
1	Jc	28	THR
1	Jc	48	VAL
1	Jc	73	ASP
1	Jc	84	VAL
1	Jc	86	SER
1	Jd	28	THR
1	Jd	48	VAL
1	Jd	73	ASP
1	Jd	75	LEU
1	Jd	84	VAL
1	Jd	86	SER
1	KU	35	LEU
1	KU	94	LYS
1	Ka	35	LEU

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Mol	Chain	Res	Type
1	Ka	94	LYS
1	Kb	35	LEU
1	Kb	94	LYS
1	Kc	35	LEU
1	Kc	94	LYS
1	Kd	35	LEU
1	Kd	94	LYS
1	LU	12	ILE
1	LU	84	VAL
1	La	12	ILE
1	La	84	VAL
1	Lb	12	ILE
1	Lb	84	VAL
1	Lc	12	ILE
1	Lc	84	VAL
1	Ld	12	ILE
1	Ld	84	VAL
1	MU	73	ASP
1	Ma	73	ASP
1	Mb	73	ASP
1	Mc	73	ASP
1	Md	73	ASP
1	NU	48	VAL
1	NU	50	VAL
1	Na	48	VAL
1	Na	50	VAL
1	Nb	48	VAL
1	Nb	50	VAL
1	Nc	48	VAL
1	Nc	50	VAL
1	Nd	48	VAL
1	Nd	50	VAL
2	Pa	9	THR
2	Pa	10	LEU
2	Pa	13	THR
2	Pa	28	TRP
2	Pa	53	VAL
2	Pa	55	SER
2	Pb	9	THR
2	Pb	10	LEU
2	Pb	13	THR
2	Pb	28	TRP

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Mol	Chain	Res	Type
2	Pb	60	GLU
2	Pc	9	THR
2	Pc	10	LEU
2	Pc	13	THR
2	Pc	28	TRP
2	Pc	53	VAL
2	Pd	9	THR
2	Pd	10	LEU
2	Pd	13	THR
2	Pd	28	TRP
2	PU	9	THR
2	PU	10	LEU
2	PU	13	THR
2	PU	28	TRP
3	Xd	636	GLN
3	Xd	637	LEU
3	Xd	685	MET
3	Xd	689	PHE
3	Xd	691	ILE
3	Xd	692	GLN
3	Xd	693	THR
3	Xd	724	ILE
3	XU	615	ILE
3	XU	616	ILE
3	XU	628	THR
3	XU	644	VAL
3	XU	648	GLN
3	XU	691	ILE
3	XU	692	GLN
3	XU	721	THR
3	XU	724	ILE
3	Ya	702	ILE
3	Ya	713	ILE
3	Ya	727	THR
3	Ya	796	THR
3	Ya	800	TRP
3	Ya	827	VAL
3	Ya	852	SER
3	Yb	713	ILE
3	Yb	796	THR
3	Yb	800	TRP
3	Yb	827	VAL

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Mol	Chain	Res	Type
3	Yb	852	SER
3	Yc	702	ILE
3	Yc	727	THR
3	Yc	732	HIS
3	Yc	796	THR
3	Yc	800	TRP
3	Yc	827	VAL
3	Yc	852	SER
3	Yd	796	THR
3	Yd	800	TRP
3	Yd	827	VAL
3	Yd	852	SER
3	YU	713	ILE
3	YU	719	LEU
3	YU	727	THR
3	YU	732	HIS
3	YU	796	THR
3	YU	800	TRP
3	YU	827	VAL
3	YU	852	SER
1	At	38	ARG
1	At	84	VAL
1	Au	38	ARG
1	Au	84	VAL
1	Av	38	ARG
1	Av	84	VAL
1	Aw	38	ARG
1	Aw	84	VAL
1	Ax	38	ARG
1	Ax	84	VAL
1	Bt	84	VAL
1	Bu	84	VAL
1	Bw	84	VAL
1	Bx	84	VAL
1	Ct	7	ILE
1	Cv	7	ILE
1	Cw	7	ILE
1	Dt	13	GLU
1	Dt	18	VAL
1	Dt	34	ARG
1	Dt	48	VAL
1	Dt	66	ASP

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Mol	Chain	Res	Type
1	Dt	97	GLN
1	Du	13	GLU
1	Du	18	VAL
1	Du	34	ARG
1	Du	48	VAL
1	Du	66	ASP
1	Dv	13	GLU
1	Dv	18	VAL
1	Dv	34	ARG
1	Dv	48	VAL
1	Dv	66	ASP
1	Dv	97	GLN
1	Dx	13	GLU
1	Dx	18	VAL
1	Dx	34	ARG
1	Dx	48	VAL
1	Dx	66	ASP
1	Dx	97	GLN
1	Et	28	THR
1	Et	91	ILE
1	Eu	28	THR
1	Eu	91	ILE
1	Ev	28	THR
1	Ev	91	ILE
1	Ew	28	THR
1	Ew	91	ILE
1	Ex	28	THR
1	Ex	91	ILE
1	Ft	50	VAL
1	Fu	50	VAL
1	Fv	50	VAL
1	Fw	50	VAL
1	Fx	50	VAL
1	Gt	71	VAL
1	Gu	9	LEU
1	Gu	48	VAL
1	Gu	84	VAL
1	Gu	97	GLN
1	Gv	71	VAL
1	Gw	71	VAL
1	Gx	71	VAL
1	Ht	48	VAL

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Mol	Chain	Res	Type
1	Hu	48	VAL
1	Hv	48	VAL
1	Hw	48	VAL
1	Hx	48	VAL
1	Jt	28	THR
1	Jt	48	VAL
1	Jt	73	ASP
1	Jt	84	VAL
1	Jt	86	SER
1	Ju	28	THR
1	Ju	48	VAL
1	Ju	73	ASP
1	Ju	75	LEU
1	Ju	84	VAL
1	Ju	86	SER
1	Jw	28	THR
1	Jw	48	VAL
1	Jw	73	ASP
1	Jw	84	VAL
1	Jw	86	SER
1	Jx	28	THR
1	Jx	48	VAL
1	Jx	73	ASP
1	Jx	84	VAL
1	Jx	86	SER
1	Kt	35	LEU
1	Kt	94	LYS
1	Ku	35	LEU
1	Ku	94	LYS
1	Kv	35	LEU
1	Kv	94	LYS
1	Kw	35	LEU
1	Kw	94	LYS
1	Kx	35	LEU
1	Kx	94	LYS
1	Lt	12	ILE
1	Lt	84	VAL
1	Lu	12	ILE
1	Lu	84	VAL
1	Lv	12	ILE
1	Lv	84	VAL
1	Lw	12	ILE

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Mol	Chain	Res	Type
1	Lw	84	VAL
1	Lx	12	ILE
1	Lx	84	VAL
1	Mt	73	ASP
1	Mu	73	ASP
1	Mv	73	ASP
1	Mw	73	ASP
1	Mx	73	ASP
1	Nt	48	VAL
1	Nt	50	VAL
1	Nu	48	VAL
1	Nu	50	VAL
1	Nv	48	VAL
1	Nv	50	VAL
1	Nw	48	VAL
1	Nw	50	VAL
1	Nx	48	VAL
1	Nx	50	VAL
2	Pt	9	THR
2	Pt	10	LEU
2	Pt	13	THR
2	Pt	28	TRP
2	Pt	60	GLU
2	Pu	9	THR
2	Pu	10	LEU
2	Pu	13	THR
2	Pu	28	TRP
2	Pu	60	GLU
2	Pv	9	THR
2	Pv	10	LEU
2	Pv	13	THR
2	Pv	28	TRP
2	Pv	53	VAL
2	Pw	27	VAL
2	Pw	36	GLN
2	Pw	45	ILE
2	Pw	53	VAL
2	Px	9	THR
2	Px	10	LEU
2	Px	13	THR
2	Px	28	TRP
2	Px	53	VAL

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Mol	Chain	Res	Type
3	Xt	621	VAL
3	Xt	628	THR
3	Xt	637	LEU
3	Xt	647	GLN
3	Xt	691	ILE
3	Xt	700	ASN
3	Xt	718	MET
3	Xt	729	GLU
3	Xu	616	ILE
3	Xu	637	LEU
3	Xu	691	ILE
3	Xu	693	THR
3	Xu	725	THR
3	Xv	621	VAL
3	Xv	622	ASP
3	Xv	643	TYR
3	Xv	647	GLN
3	Xv	691	ILE
3	Xv	693	THR
3	Xv	725	THR
3	Xx	621	VAL
3	Xx	625	ASP
3	Xx	627	VAL
3	Xx	632	ILE
3	Xx	637	LEU
3	Xx	644	VAL
3	Xx	691	ILE
3	Xx	693	THR
3	Xx	725	THR
3	Yt	718	MET
3	Yt	727	THR
3	Yt	796	THR
3	Yt	800	TRP
3	Yt	827	VAL
3	Yt	852	SER
3	Yu	702	ILE
3	Yu	719	LEU
3	Yu	727	THR
3	Yu	796	THR
3	Yu	800	TRP
3	Yu	827	VAL
3	Yu	852	SER

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Mol	Chain	Res	Type
3	Yv	719	LEU
3	Yv	727	THR
3	Yv	796	THR
3	Yv	800	TRP
3	Yv	827	VAL
3	Yv	852	SER
3	Yw	702	ILE
3	Yw	713	ILE
3	Yw	719	LEU
3	Yw	732	HIS
3	Yw	796	THR
3	Yw	800	TRP
3	Yw	827	VAL
3	Yw	852	SER
3	Yx	712	ARG
3	Yx	729	GLU
3	Yx	732	HIS
3	Yx	796	THR
3	Yx	800	TRP
3	Yx	827	VAL
3	Yx	852	SER
1	Ak	38	ARG
1	Ak	84	VAL
1	Al	38	ARG
1	Al	84	VAL
1	Am	38	ARG
1	Am	84	VAL
1	Am	88	VAL
1	Am	94	LYS
1	An	38	ARG
1	An	84	VAL
1	Ao	38	ARG
1	Ao	84	VAL
1	Bk	84	VAL
1	Bl	84	VAL
1	Bm	84	VAL
1	Bm	94	LYS
1	Bn	84	VAL
1	Bo	84	VAL
1	Ck	7	ILE
1	Cn	7	ILE
1	Dk	13	GLU

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Mol	Chain	Res	Type
1	Dk	18	VAL
1	Dk	34	ARG
1	Dk	48	VAL
1	Dk	66	ASP
1	Dk	97	GLN
1	Dm	13	GLU
1	Dm	18	VAL
1	Dm	34	ARG
1	Dm	48	VAL
1	Dm	66	ASP
1	Dm	97	GLN
1	Do	13	GLU
1	Do	18	VAL
1	Do	34	ARG
1	Do	48	VAL
1	Do	66	ASP
1	Do	97	GLN
1	Ek	28	THR
1	Ek	91	ILE
1	En	28	THR
1	En	91	ILE
1	Eo	28	THR
1	Eo	91	ILE
1	Fk	50	VAL
1	Fm	50	VAL
1	Fn	50	VAL
1	Fo	50	VAL
1	Gk	71	VAL
1	Gl	9	LEU
1	Gl	48	VAL
1	Gl	84	VAL
1	Gl	88	VAL
1	Gm	71	VAL
1	Gn	71	VAL
1	Go	71	VAL
1	Hk	48	VAL
1	Hl	48	VAL
1	Hm	48	VAL
1	Hn	48	VAL
1	Ho	48	VAL
1	Jk	28	THR
1	Jk	48	VAL

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Mol	Chain	Res	Type
1	Jk	73	ASP
1	Jk	84	VAL
1	Jk	86	SER
1	Jl	28	THR
1	Jl	48	VAL
1	Jl	73	ASP
1	Jl	75	LEU
1	Jl	84	VAL
1	Jl	86	SER
1	Jn	28	THR
1	Jn	48	VAL
1	Jn	73	ASP
1	Jn	84	VAL
1	Jn	86	SER
1	Jo	28	THR
1	Jo	48	VAL
1	Jo	73	ASP
1	Jo	75	LEU
1	Jo	84	VAL
1	Jo	86	SER
1	Kk	35	LEU
1	Kk	94	LYS
1	Kl	35	LEU
1	Kl	94	LYS
1	Kn	35	LEU
1	Kn	94	LYS
1	Ko	35	LEU
1	Ko	94	LYS
1	Lk	12	ILE
1	Lk	84	VAL
1	Ll	12	ILE
1	Ll	84	VAL
1	Ln	12	ILE
1	Ln	84	VAL
1	Lo	12	ILE
1	Lo	84	VAL
1	Mk	73	ASP
1	Ml	73	ASP
1	Mn	73	ASP
1	Mo	73	ASP
1	Nk	48	VAL
1	Nk	50	VAL

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Mol	Chain	Res	Type
1	Nl	48	VAL
1	Nl	50	VAL
1	Nn	48	VAL
1	Nn	50	VAL
1	No	48	VAL
1	No	50	VAL
2	Pk	9	THR
2	Pk	10	LEU
2	Pk	13	THR
2	Pk	28	TRP
2	Pk	60	GLU
2	Pk	65	LYS
2	Pl	9	THR
2	Pl	10	LEU
2	Pl	13	THR
2	Pl	28	TRP
2	Pm	9	THR
2	Pm	10	LEU
2	Pm	13	THR
2	Pm	28	TRP
2	Pn	9	THR
2	Pn	10	LEU
2	Pn	13	THR
2	Pn	28	TRP
2	Pn	60	GLU
2	Po	9	THR
2	Po	10	LEU
2	Po	13	THR
2	Po	28	TRP
2	Po	60	GLU
3	Xk	616	ILE
3	Xk	636	GLN
3	Xk	644	VAL
3	Xk	647	GLN
3	Xk	648	GLN
3	Xk	691	ILE
3	Xk	692	GLN
3	Xk	712	ARG
3	Xk	721	THR
3	Xk	724	ILE
3	Xk	727	THR
3	Xl	615	ILE

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Mol	Chain	Res	Type
3	Xl	616	ILE
3	Xl	647	GLN
3	Xl	691	ILE
3	Xl	692	GLN
3	Xl	718	MET
3	Xl	729	GLU
3	Xl	730	PHE
3	Xo	626	LEU
3	Xo	644	VAL
3	Xo	691	ILE
3	Xo	693	THR
3	Xo	718	MET
3	Xo	724	ILE
3	Xo	730	PHE
3	Yk	727	THR
3	Yk	796	THR
3	Yk	800	TRP
3	Yk	827	VAL
3	Yk	852	SER
3	Yl	702	ILE
3	Yl	713	ILE
3	Yl	796	THR
3	Yl	800	TRP
3	Yl	827	VAL
3	Yl	852	SER
3	Ym	713	ILE
3	Ym	719	LEU
3	Ym	727	THR
3	Ym	796	THR
3	Ym	800	TRP
3	Ym	827	VAL
3	Ym	852	SER
3	Yn	702	ILE
3	Yn	713	ILE
3	Yn	721	THR
3	Yn	727	THR
3	Yn	796	THR
3	Yn	800	TRP
3	Yn	827	VAL
3	Yn	852	SER
3	Yo	706	ASP
3	Yo	719	LEU

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Mol	Chain	Res	Type
3	Yo	727	THR
3	Yo	732	HIS
3	Yo	796	THR
3	Yo	800	TRP
3	Yo	827	VAL
3	Yo	852	SER
1	Aj	38	ARG
1	Aj	84	VAL
1	Ap	38	ARG
1	Ap	84	VAL
1	Ap	88	VAL
1	Ap	97	GLN
1	Aq	38	ARG
1	Aq	84	VAL
1	Ar	38	ARG
1	Ar	84	VAL
1	As	38	ARG
1	As	84	VAL
1	Bj	84	VAL
1	Bp	84	VAL
1	Bq	84	VAL
1	Br	84	VAL
1	Bs	84	VAL
1	Cj	7	ILE
1	Cp	7	ILE
1	Cq	7	ILE
1	Cr	7	ILE
1	Dp	13	GLU
1	Dp	18	VAL
1	Dp	34	ARG
1	Dp	48	VAL
1	Dp	66	ASP
1	Dp	97	GLN
1	Dr	13	GLU
1	Dr	18	VAL
1	Dr	34	ARG
1	Dr	48	VAL
1	Dr	66	ASP
1	Dr	97	GLN
1	Ds	13	GLU
1	Ds	18	VAL
1	Ds	34	ARG

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Mol	Chain	Res	Type
1	Ds	48	VAL
1	Ds	66	ASP
1	Ds	97	GLN
1	Ej	28	THR
1	Ej	91	ILE
1	Ep	28	THR
1	Ep	91	ILE
1	Eq	28	THR
1	Eq	91	ILE
1	Er	28	THR
1	Er	91	ILE
1	Es	28	THR
1	Es	91	ILE
1	Fj	50	VAL
1	Fj	84	VAL
1	Fp	50	VAL
1	Fr	50	VAL
1	Fs	50	VAL
1	Gj	48	VAL
1	Gj	50	VAL
1	Gj	68	CYS
1	Gj	84	VAL
1	Gj	87	GLU
1	Gp	71	VAL
1	Gq	71	VAL
1	Gr	71	VAL
1	Gs	71	VAL
1	Hj	48	VAL
1	Hp	48	VAL
1	Hq	48	VAL
1	Hr	48	VAL
1	Hs	48	VAL
1	Jj	28	THR
1	Jj	48	VAL
1	Jj	73	ASP
1	Jj	84	VAL
1	Jj	86	SER
1	Jp	28	THR
1	Jp	48	VAL
1	Jp	73	ASP
1	Jp	84	VAL
1	Jp	86	SER

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Mol	Chain	Res	Type
1	Jq	28	THR
1	Jq	48	VAL
1	Jq	73	ASP
1	Jq	75	LEU
1	Jq	84	VAL
1	Jq	86	SER
1	Jr	28	THR
1	Jr	48	VAL
1	Jr	73	ASP
1	Jr	84	VAL
1	Jr	86	SER
1	Js	28	THR
1	Js	48	VAL
1	Js	73	ASP
1	Js	84	VAL
1	Js	86	SER
1	Kj	35	LEU
1	Kj	94	LYS
1	Kp	35	LEU
1	Kp	94	LYS
1	Kq	35	LEU
1	Kq	94	LYS
1	Kr	35	LEU
1	Kr	94	LYS
1	Ks	35	LEU
1	Ks	94	LYS
1	Lj	12	ILE
1	Lj	84	VAL
1	Lp	12	ILE
1	Lp	84	VAL
1	Lq	12	ILE
1	Lq	84	VAL
1	Lr	12	ILE
1	Lr	84	VAL
1	Ls	12	ILE
1	Ls	84	VAL
1	Mj	73	ASP
1	Mp	73	ASP
1	Mq	73	ASP
1	Mr	73	ASP
1	Ms	73	ASP
1	Nj	48	VAL

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Mol	Chain	Res	Type
1	Nj	50	VAL
1	Np	48	VAL
1	Np	50	VAL
1	Nq	48	VAL
1	Nq	50	VAL
1	Nr	48	VAL
1	Nr	50	VAL
1	Ns	48	VAL
1	Ns	50	VAL
2	Pp	9	THR
2	Pp	10	LEU
2	Pp	13	THR
2	Pp	28	TRP
2	Pp	53	VAL
2	Pp	55	SER
2	Pq	9	THR
2	Pq	10	LEU
2	Pq	13	THR
2	Pq	28	TRP
2	Pq	60	GLU
2	Pr	9	THR
2	Pr	10	LEU
2	Pr	13	THR
2	Pr	28	TRP
2	Pr	53	VAL
2	Ps	9	THR
2	Ps	10	LEU
2	Ps	13	THR
2	Ps	28	TRP
2	Pj	9	THR
2	Pj	10	LEU
2	Pj	13	THR
2	Pj	28	TRP
3	Xp	637	LEU
3	Xp	641	ASP
3	Xp	691	ILE
3	Xp	724	ILE
3	Xs	636	GLN
3	Xs	637	LEU
3	Xs	685	MET
3	Xs	689	PHE
3	Xs	691	ILE

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Mol	Chain	Res	Type
3	Xs	692	GLN
3	Xs	693	THR
3	Xs	724	ILE
3	Xj	615	ILE
3	Xj	616	ILE
3	Xj	628	THR
3	Xj	644	VAL
3	Xj	648	GLN
3	Xj	691	ILE
3	Xj	692	GLN
3	Xj	721	THR
3	Xj	724	ILE
3	Yp	702	ILE
3	Yp	713	ILE
3	Yp	727	THR
3	Yp	796	THR
3	Yp	800	TRP
3	Yp	827	VAL
3	Yp	852	SER
3	Yq	713	ILE
3	Yq	796	THR
3	Yq	800	TRP
3	Yq	827	VAL
3	Yq	852	SER
3	Yr	702	ILE
3	Yr	727	THR
3	Yr	732	HIS
3	Yr	796	THR
3	Yr	800	TRP
3	Yr	827	VAL
3	Yr	852	SER
3	Ys	796	THR
3	Ys	800	TRP
3	Ys	827	VAL
3	Ys	852	SER
3	Yj	713	ILE
3	Yj	719	LEU
3	Yj	727	THR
3	Yj	732	HIS
3	Yj	796	THR
3	Yj	800	TRP
3	Yj	827	VAL

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Mol	Chain	Res	Type
3	Yj	852	SER
1	DD	9	LEU
1	DD	12	ILE
1	DD	14	THR
1	DD	48	VAL
1	DD	87	GLU
1	DD	97	GLN
1	JC	28	THR
1	JC	48	VAL
1	JC	75	LEU
1	JC	81	ILE
1	JC	84	VAL
1	JC	86	SER
3	XD	615	ILE
3	XD	631	GLU
3	XD	637	LEU
3	XD	641	ASP
3	XD	644	VAL
3	XD	647	GLN
3	XD	691	ILE
3	XD	693	THR
3	XD	725	THR
1	D4	12	ILE
1	D4	48	VAL
1	D4	75	LEU
1	D4	85	HIS
1	D4	91	ILE
1	J3	28	THR
1	J3	48	VAL
1	J3	73	ASP
1	J3	75	LEU
1	J3	84	VAL
1	J3	91	ILE
3	X4	615	ILE
3	X4	616	ILE
3	X4	622	ASP
3	X4	647	GLN
3	X4	649	THR
3	X4	691	ILE
3	X4	693	THR
3	X4	718	MET
3	X4	727	THR

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Mol	Chain	Res	Type
3	X4	729	GLU
1	D7	12	ILE
1	D7	36	VAL
1	D7	48	VAL
1	D7	70	ARG
1	D7	91	ILE
1	J6	28	THR
1	J6	48	VAL
1	J6	75	LEU
3	X7	647	GLN
3	X7	649	THR
3	X7	691	ILE
3	X7	693	THR
3	X7	718	MET
3	X7	724	ILE
3	X8	621	VAL
3	X8	630	ASN
3	X8	643	TYR
3	X8	644	VAL
3	X8	691	ILE
3	X8	724	ILE
3	X8	730	PHE
1	DS	12	ILE
1	DS	14	THR
1	DS	36	VAL
1	DS	57	VAL
1	DS	70	ARG
1	DS	80	ILE
1	DS	88	VAL
3	XS	637	LEU
3	XS	641	ASP
3	XS	644	VAL
3	XS	647	GLN
3	XS	691	ILE
3	XS	693	THR
3	XS	725	THR
1	EI	28	THR
1	EI	84	VAL
1	DM	13	GLU
1	DM	18	VAL
1	DM	34	ARG
1	DM	48	VAL

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Mol	Chain	Res	Type
1	DM	54	THR
1	DM	57	VAL
1	DM	97	GLN
3	Xh	631	GLU
3	Xh	637	LEU
3	Xh	641	ASP
3	Xh	644	VAL
3	Xh	647	GLN
3	Xh	691	ILE
3	Xh	693	THR
3	Xh	725	THR
3	XY	616	ILE
3	XY	622	ASP
3	XY	647	GLN
3	XY	649	THR
3	XY	691	ILE
3	XY	693	THR
3	XY	718	MET
3	XY	727	THR
3	XY	729	GLU
3	Xb	643	TYR
3	Xb	644	VAL
3	Xb	647	GLN
3	Xb	649	THR
3	Xb	691	ILE
3	Xb	693	THR
3	Xb	718	MET
3	Xb	724	ILE
3	Xc	627	VAL
3	Xc	643	TYR
3	Xc	644	VAL
3	Xc	691	ILE
3	Xc	724	ILE
3	Xc	730	PHE
1	Dw	12	ILE
1	Dw	22	GLU
1	Dw	33	VAL
1	Dw	48	VAL
1	Dw	70	ARG
1	Dw	80	ILE
1	Dw	81	ILE
1	Dw	91	ILE

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Mol	Chain	Res	Type
1	Jv	48	VAL
1	Jv	57	VAL
1	Jv	70	ARG
1	Jv	75	LEU
1	Jv	81	ILE
1	Jv	84	VAL
1	Jv	91	ILE
3	Xw	631	GLU
3	Xw	637	LEU
3	Xw	641	ASP
3	Xw	644	VAL
3	Xw	647	GLN
3	Xw	691	ILE
3	Xw	693	THR
3	Xw	725	THR
1	Dn	12	ILE
1	Dn	36	VAL
1	Dn	48	VAL
1	Dn	84	VAL
3	Xn	615	ILE
3	Xn	622	ASP
3	Xn	647	GLN
3	Xn	649	THR
3	Xn	691	ILE
3	Xn	693	THR
3	Xn	718	MET
3	Xn	727	THR
3	Xn	729	GLU
3	Xq	616	ILE
3	Xq	643	TYR
3	Xq	644	VAL
3	Xq	647	GLN
3	Xq	649	THR
3	Xq	691	ILE
3	Xq	693	THR
3	Xq	718	MET
3	Xq	724	ILE
3	Xr	615	ILE
3	Xr	619	THR
3	Xr	643	TYR
3	Xr	644	VAL
3	Xr	691	ILE

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Mol	Chain	Res	Type
3	Xr	724	ILE
3	Xr	730	PHE
3	X5	616	ILE
3	X5	644	VAL
3	X5	691	ILE
3	X5	693	THR
3	X5	718	MET
3	X5	724	ILE
3	X5	730	PHE
1	DR	13	GLU
1	DR	18	VAL
1	DR	34	ARG
1	DR	48	VAL
1	DR	66	ASP
1	DR	97	GLN
1	FL	50	VAL
1	LM	12	ILE
1	LM	84	VAL
1	LN	12	ILE
1	LN	84	VAL
1	NL	27	MET
1	NL	48	VAL
1	NL	50	VAL
1	Fh	33	VAL
1	Fh	50	VAL
1	FY	50	VAL
1	JY	28	THR
1	JY	48	VAL
1	JY	62	ARG
1	JY	73	ASP
1	JY	84	VAL
1	JY	86	SER
3	XX	615	ILE
3	XX	627	VAL
3	XX	634	GLU
3	XX	637	LEU
3	XX	647	GLN
3	XX	719	LEU
3	XX	727	THR
1	Dj	13	GLU
1	Dj	18	VAL
1	Dj	34	ARG

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Mol	Chain	Res	Type
1	Dj	48	VAL
1	Dj	66	ASP
1	Fq	50	VAL
3	XJ	621	VAL
3	XJ	647	GLN
3	XJ	649	THR
3	XJ	691	ILE
3	XJ	693	THR
3	XJ	718	MET
3	XJ	727	THR
3	XJ	729	GLU
1	EL	9	LEU
1	EL	35	LEU
1	EL	50	VAL
1	EL	84	VAL
1	EL	94	LYS
3	XM	615	ILE
3	XM	634	GLU
3	XM	647	GLN
3	XM	649	THR
3	XM	691	ILE
3	XM	693	THR
3	XM	718	MET
3	XM	724	ILE
1	Dh	12	ILE
1	Dh	35	LEU
1	Dh	36	VAL
1	Dh	62	ARG
1	Dh	70	ARG
1	Dh	75	LEU
1	Dh	84	VAL
1	Dh	85	HIS
1	DY	12	ILE
1	DY	28	THR
1	DY	49	LEU
1	DY	70	ARG
1	DY	91	ILE
1	Db	12	ILE
1	Db	22	GLU
1	Db	33	VAL
1	Db	36	VAL
1	Db	48	VAL

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Mol	Chain	Res	Type
1	Db	70	ARG
1	Db	75	LEU
1	Db	91	ILE
1	Dq	12	ILE
1	Dq	36	VAL
1	Dq	38	ARG
1	Dq	48	VAL
1	Dq	57	VAL
1	Dq	97	GLN
1	L3	12	ILE
1	L3	84	VAL
3	Y3	713	ILE
3	Y3	719	LEU
3	Y3	727	THR
3	Y3	796	THR
3	Y3	800	TRP
3	Y3	827	VAL
3	Y3	852	SER
1	Em	28	THR
1	Em	75	LEU
1	Em	79	HIS
1	Em	91	ILE
1	DJ	12	ILE
1	DJ	36	VAL
1	DJ	48	VAL
1	DJ	57	VAL
1	DJ	62	ARG
1	DJ	75	LEU
1	DJ	80	ILE
1	DJ	81	ILE
1	DJ	84	VAL
1	DJ	97	GLN
1	E3	28	THR
1	E3	75	LEU
1	E3	91	ILE
1	DH	12	ILE
1	DH	36	VAL
1	DH	47	THR
1	DH	48	VAL
1	DH	49	LEU
3	Xa	637	LEU
3	Xa	641	ASP

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Mol	Chain	Res	Type
3	Xa	647	GLN
3	Xa	691	ILE
3	Xa	724	ILE
1	DI	13	GLU
1	DI	18	VAL
1	DI	36	VAL
1	DI	48	VAL
1	DI	66	ASP
1	DI	94	LYS
1	D6	13	GLU
1	D6	18	VAL
1	D6	34	ARG
1	D6	48	VAL
1	D6	97	GLN
1	Df	13	GLU
1	Df	18	VAL
1	Df	34	ARG
1	Df	48	VAL
1	Df	57	VAL
1	Df	97	GLN
3	XN	621	VAL
3	XN	630	ASN
3	XN	631	GLU
3	XN	691	ILE
3	XN	724	ILE
3	XN	730	PHE
3	X3	615	ILE
3	X3	616	ILE
3	X3	627	VAL
3	X3	634	GLU
3	X3	637	LEU
3	X3	644	VAL
3	X3	719	LEU
3	X3	727	THR
1	JI	28	THR
1	JI	48	VAL
1	JI	73	ASP
1	JI	84	VAL
1	JI	86	SER
1	KI	35	LEU
1	KI	94	LYS
1	LI	12	ILE

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Mol	Chain	Res	Type
1	LI	70	ARG
1	LI	84	VAL
1	MI	73	ASP
1	NI	48	VAL
1	NI	50	VAL
1	FF	33	VAL
1	FF	35	LEU
1	FF	36	VAL
1	FF	50	VAL
1	FF	75	LEU
1	FF	84	VAL
1	JU	28	THR
1	JU	48	VAL
1	JU	73	ASP
1	JU	84	VAL
1	JU	86	SER
1	El	28	THR
1	El	91	ILE
1	Fl	50	VAL
1	Fl	88	VAL
1	Km	35	LEU
1	Km	94	LYS
1	Nm	48	VAL
1	Nm	50	VAL
3	XI	615	ILE
3	XI	619	THR
3	XI	647	GLN
3	XI	719	LEU
3	XI	727	THR
1	DU	13	GLU
1	DU	18	VAL
1	DU	34	ARG
1	DU	48	VAL
1	DU	70	ARG
1	DU	75	LEU
1	Dl	13	GLU
1	Dl	18	VAL
1	Dl	36	VAL
1	Dl	48	VAL
1	Dl	66	ASP
1	Dl	70	ARG
1	Dl	88	VAL

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Mol	Chain	Res	Type
3	Xm	624	SER
3	Xm	638	ILE
3	Xm	644	VAL
3	Xm	719	LEU
3	Xm	727	THR
1	EF	12	ILE
1	EF	48	VAL
1	EF	73	ASP
1	EF	84	VAL
1	EF	91	ILE
1	DF	12	ILE
1	DF	33	VAL
1	DF	48	VAL
1	DF	49	LEU
1	DF	69	GLU
1	DF	70	ARG
1	DF	73	ASP
1	DF	83	ARG
1	MK	73	ASP
1	JF	28	THR
1	JF	48	VAL
1	JF	73	ASP
1	JF	84	VAL
1	JF	86	SER
1	Jm	28	THR
1	Jm	48	VAL
1	Jm	73	ASP
1	Jm	84	VAL
1	Jm	86	SER
1	Lm	48	VAL
1	Lm	70	ARG
1	Lm	81	ILE
1	Lm	84	VAL
1	Lm	88	VAL
1	MF	36	VAL
1	MF	73	ASP
1	Mm	75	LEU
1	Mm	84	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (846) such sidechains are listed below:

Mol	Chain	Res	Type
1	CA	79	HIS
1	CB	79	HIS
1	CC	79	HIS
1	CD	79	HIS
1	CE	58	ASN
1	CE	79	HIS
1	DA	97	GLN
1	DB	79	HIS
1	DC	97	GLN
1	DE	97	GLN
1	EC	85	HIS
1	FB	79	HIS
1	FC	79	HIS
1	FD	79	HIS
1	FE	79	HIS
1	GB	39	GLN
1	GD	85	HIS
1	HA	85	HIS
1	HB	85	HIS
1	HC	85	HIS
1	HD	85	HIS
1	HE	85	HIS
1	IA	58	ASN
1	IA	85	HIS
1	IB	58	ASN
1	IC	58	ASN
1	IC	85	HIS
1	ID	58	ASN
1	ID	85	HIS
1	IE	58	ASN
1	IE	79	HIS
1	IE	85	HIS
1	JD	79	HIS
1	KA	39	GLN
1	KB	39	GLN
1	KC	39	GLN
1	KD	39	GLN
1	KE	39	GLN
1	LA	97	GLN
1	LB	97	GLN
1	LC	97	GLN
1	LD	97	GLN
1	LE	97	GLN

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Mol	Chain	Res	Type
1	MA	90	ASN
1	ME	58	ASN
1	OA	58	ASN
1	OB	58	ASN
1	OC	58	ASN
1	OD	58	ASN
1	OE	58	ASN
2	PD	5	GLN
2	PD	14	ASN
2	PD	36	GLN
3	XA	692	GLN
3	XA	699	GLN
3	XA	700	ASN
3	XC	700	ASN
3	XE	700	ASN
3	YA	794	HIS
3	YB	794	HIS
3	YC	705	ASN
3	YC	794	HIS
3	YD	705	ASN
3	YD	794	HIS
3	YE	794	HIS
1	C1	79	HIS
1	C2	79	HIS
1	C3	79	HIS
1	C4	79	HIS
1	C5	79	HIS
1	D1	97	GLN
1	D2	58	ASN
1	D2	97	GLN
1	D3	97	GLN
1	D5	97	GLN
1	F5	79	HIS
1	G2	39	GLN
1	H1	85	HIS
1	H2	85	HIS
1	H3	85	HIS
1	H4	85	HIS
1	H5	85	HIS
1	I1	85	HIS
1	I2	58	ASN
1	I3	58	ASN

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Mol	Chain	Res	Type
1	I3	85	HIS
1	I4	58	ASN
1	I4	85	HIS
1	I5	58	ASN
1	I5	85	HIS
1	J1	79	HIS
1	J2	79	HIS
1	J5	79	HIS
1	K1	39	GLN
1	K2	39	GLN
1	K3	39	GLN
1	K4	39	GLN
1	K5	39	GLN
1	L1	97	GLN
1	L2	97	GLN
1	L4	97	GLN
1	L5	97	GLN
1	M1	90	ASN
1	M2	90	ASN
1	M3	90	ASN
1	M4	90	ASN
1	M5	90	ASN
1	O1	58	ASN
1	O2	58	ASN
1	O3	58	ASN
1	O4	58	ASN
1	O5	58	ASN
3	X1	648	GLN
3	X1	700	ASN
3	X2	636	GLN
3	X2	700	ASN
3	Y1	705	ASN
3	Y1	794	HIS
3	Y2	794	HIS
3	Y4	705	ASN
3	Y4	794	HIS
3	Y5	794	HIS
1	C0	79	HIS
1	C6	79	HIS
1	C7	79	HIS
1	C8	79	HIS
1	C9	79	HIS

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Mol	Chain	Res	Type
1	D0	58	ASN
1	D0	97	GLN
1	D8	97	GLN
1	D9	97	GLN
1	G0	58	ASN
1	G9	85	HIS
1	H0	85	HIS
1	H6	85	HIS
1	H7	85	HIS
1	H8	85	HIS
1	H9	85	HIS
1	I0	58	ASN
1	I0	85	HIS
1	I6	58	ASN
1	I6	85	HIS
1	I7	85	HIS
1	I8	85	HIS
1	I9	58	ASN
1	I9	85	HIS
1	J0	79	HIS
1	J7	79	HIS
1	J8	79	HIS
1	K0	39	GLN
1	K6	39	GLN
1	K7	39	GLN
1	K8	39	GLN
1	K9	39	GLN
1	L0	97	GLN
1	L6	97	GLN
1	L8	97	GLN
1	L9	97	GLN
1	M0	90	ASN
1	M6	90	ASN
1	M8	90	ASN
1	M9	90	ASN
1	O0	58	ASN
1	O0	79	HIS
1	O6	58	ASN
1	O7	58	ASN
1	O8	58	ASN
1	O9	58	ASN
1	O9	97	GLN

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Mol	Chain	Res	Type
3	X6	648	GLN
3	X6	692	GLN
3	X6	700	ASN
3	X9	692	GLN
3	X9	700	ASN
3	X0	692	GLN
3	X0	700	ASN
3	Y6	705	ASN
3	Y6	732	HIS
3	Y6	794	HIS
3	Y7	732	HIS
3	Y7	794	HIS
3	Y8	794	HIS
3	Y9	705	ASN
3	Y9	794	HIS
3	Y0	794	HIS
1	CP	79	HIS
1	CQ	79	HIS
1	CR	79	HIS
1	CS	79	HIS
1	CT	58	ASN
1	CT	79	HIS
1	DP	97	GLN
1	DQ	97	GLN
1	DT	97	GLN
1	EP	79	HIS
1	EQ	79	HIS
1	FQ	79	HIS
1	FR	79	HIS
1	FS	79	HIS
1	FT	79	HIS
1	GQ	39	GLN
1	HP	85	HIS
1	HQ	85	HIS
1	HR	85	HIS
1	HS	79	HIS
1	HS	85	HIS
1	HT	85	HIS
1	IP	58	ASN
1	IP	85	HIS
1	IQ	58	ASN
1	IR	58	ASN

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Mol	Chain	Res	Type
1	IR	85	HIS
1	IS	58	ASN
1	IS	85	HIS
1	IT	58	ASN
1	IT	79	HIS
1	IT	85	HIS
1	JQ	79	HIS
1	JS	79	HIS
1	KP	39	GLN
1	KQ	39	GLN
1	KR	39	GLN
1	KS	39	GLN
1	KT	39	GLN
1	LP	97	GLN
1	LQ	97	GLN
1	LR	97	GLN
1	LT	97	GLN
1	MP	90	ASN
1	MR	90	ASN
1	MT	90	ASN
1	OP	58	ASN
1	OP	97	GLN
1	OQ	58	ASN
1	OR	58	ASN
1	OS	58	ASN
1	OT	58	ASN
2	PS	5	GLN
2	PS	14	ASN
2	PS	36	GLN
3	XP	692	GLN
3	XP	699	GLN
3	XP	700	ASN
3	XQ	648	GLN
3	YP	794	HIS
3	YQ	794	HIS
3	YR	705	ASN
3	YR	794	HIS
3	YS	705	ASN
3	YS	794	HIS
3	YT	794	HIS
1	BH	79	HIS
1	CG	79	HIS

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Mol	Chain	Res	Type
1	CH	79	HIS
1	CI	79	HIS
1	CJ	79	HIS
1	CK	79	HIS
1	DG	97	GLN
1	DK	97	GLN
1	FI	39	GLN
1	FK	79	HIS
1	GH	39	GLN
1	GI	39	GLN
1	GI	85	HIS
1	GI	97	GLN
1	GJ	85	HIS
1	HG	85	HIS
1	HH	85	HIS
1	HI	85	HIS
1	HJ	85	HIS
1	HK	85	HIS
1	IG	85	HIS
1	IH	58	ASN
1	IH	85	HIS
1	II	58	ASN
1	II	85	HIS
1	IJ	58	ASN
1	IJ	85	HIS
1	IK	58	ASN
1	IK	79	HIS
1	IK	85	HIS
1	JG	79	HIS
1	JH	79	HIS
1	JK	79	HIS
1	KG	39	GLN
1	KH	39	GLN
1	KJ	39	GLN
1	KK	39	GLN
1	LG	97	GLN
1	LH	97	GLN
1	LJ	97	GLN
1	LK	97	GLN
1	MG	90	ASN
1	OG	58	ASN
1	OH	58	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	OJ	58	ASN
1	OK	58	ASN
3	XG	648	GLN
3	XG	700	ASN
3	XH	636	GLN
3	XH	700	ASN
3	XK	700	ASN
3	YG	705	ASN
3	YG	794	HIS
3	YH	794	HIS
3	YI	794	HIS
3	YJ	705	ASN
3	YJ	794	HIS
3	YK	794	HIS
1	AL	39	GLN
1	BL	85	HIS
1	BL	90	ASN
1	CF	79	HIS
1	CL	79	HIS
1	CM	79	HIS
1	CN	79	HIS
1	CO	79	HIS
1	DL	97	GLN
1	DN	97	GLN
1	DO	97	GLN
1	GF	39	GLN
1	GF	58	ASN
1	GO	85	HIS
1	HF	85	HIS
1	HL	85	HIS
1	HM	85	HIS
1	HN	85	HIS
1	HO	79	HIS
1	HO	85	HIS
1	IF	58	ASN
1	IF	85	HIS
1	IL	58	ASN
1	IL	85	HIS
1	IM	58	ASN
1	IM	85	HIS
1	IN	85	HIS
1	IO	58	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	IO	79	HIS
1	IO	85	HIS
1	JL	79	HIS
1	JM	79	HIS
1	JN	79	HIS
1	KF	39	GLN
1	KL	39	GLN
1	KM	39	GLN
1	KN	39	GLN
1	KO	39	GLN
1	LF	97	GLN
1	LL	97	GLN
1	LO	97	GLN
1	ML	90	ASN
1	MM	90	ASN
1	MN	90	ASN
1	MO	90	ASN
1	OF	58	ASN
1	OF	79	HIS
1	OL	58	ASN
1	OM	58	ASN
1	ON	58	ASN
1	OO	58	ASN
3	XL	648	GLN
3	XL	692	GLN
3	XL	700	ASN
3	XO	692	GLN
3	XO	700	ASN
3	XF	692	GLN
3	XF	700	ASN
3	YL	705	ASN
3	YL	794	HIS
3	YM	732	HIS
3	YM	794	HIS
3	YN	794	HIS
3	YO	705	ASN
3	YO	794	HIS
3	YF	794	HIS
1	Ce	79	HIS
1	Cf	79	HIS
1	Cg	79	HIS
1	Ch	79	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	Ci	58	ASN
1	Ci	79	HIS
1	De	97	GLN
1	Dg	97	GLN
1	Di	97	GLN
1	Ee	79	HIS
1	Ef	79	HIS
1	Ff	79	HIS
1	Fg	79	HIS
1	Fi	79	HIS
1	Ge	85	HIS
1	Gf	39	GLN
1	He	85	HIS
1	Hf	85	HIS
1	Hg	85	HIS
1	Hh	85	HIS
1	Hi	85	HIS
1	Ie	58	ASN
1	Ie	85	HIS
1	If	58	ASN
1	Ig	58	ASN
1	Ig	85	HIS
1	Ih	58	ASN
1	Ih	85	HIS
1	Ii	58	ASN
1	Ii	85	HIS
1	Jf	79	HIS
1	Jg	79	HIS
1	Jh	79	HIS
1	Ke	39	GLN
1	Kf	39	GLN
1	Kg	39	GLN
1	Kh	39	GLN
1	Ki	39	GLN
1	Le	97	GLN
1	Lf	97	GLN
1	Lg	97	GLN
1	Lh	97	GLN
1	Li	97	GLN
1	Me	90	ASN
1	Mg	90	ASN
1	Mh	90	ASN

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Mol	Chain	Res	Type
1	Mi	90	ASN
1	Oe	58	ASN
1	Of	58	ASN
1	Og	58	ASN
1	Oh	58	ASN
1	Oi	58	ASN
2	Ph	5	GLN
2	Ph	14	ASN
2	Ph	36	GLN
3	Xe	692	GLN
3	Xe	700	ASN
3	Xf	700	ASN
3	Xg	700	ASN
3	Xi	700	ASN
3	Ye	794	HIS
3	Yf	794	HIS
3	Yg	705	ASN
3	Yg	794	HIS
3	Yh	705	ASN
3	Yh	794	HIS
3	Yi	794	HIS
1	AX	39	GLN
1	BW	79	HIS
1	CV	79	HIS
1	CW	79	HIS
1	CX	79	HIS
1	CY	79	HIS
1	CZ	79	HIS
1	DV	97	GLN
1	DW	58	ASN
1	DX	97	GLN
1	DZ	97	GLN
1	FZ	79	HIS
1	GV	85	HIS
1	HV	85	HIS
1	HW	85	HIS
1	HX	85	HIS
1	HY	85	HIS
1	HZ	85	HIS
1	IV	85	HIS
1	IW	58	ASN
1	IX	58	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	IX	85	HIS
1	IY	58	ASN
1	IY	85	HIS
1	IZ	58	ASN
1	IZ	79	HIS
1	IZ	85	HIS
1	JV	79	HIS
1	JW	79	HIS
1	JX	79	HIS
1	JZ	79	HIS
1	KV	39	GLN
1	KW	39	GLN
1	KX	39	GLN
1	KY	39	GLN
1	KZ	39	GLN
1	LV	97	GLN
1	LW	97	GLN
1	LX	97	GLN
1	LY	97	GLN
1	LZ	97	GLN
1	MV	90	ASN
1	MW	90	ASN
1	MX	90	ASN
1	MY	90	ASN
1	MZ	90	ASN
1	OV	58	ASN
1	OW	58	ASN
1	OX	58	ASN
1	OY	58	ASN
1	OZ	58	ASN
3	XV	648	GLN
3	XV	700	ASN
3	XW	636	GLN
3	XW	700	ASN
3	XZ	700	ASN
3	YV	794	HIS
3	YW	794	HIS
3	YX	794	HIS
3	YY	705	ASN
3	YY	794	HIS
3	YZ	794	HIS
1	Ba	90	ASN

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Mol	Chain	Res	Type
1	CU	79	HIS
1	Ca	79	HIS
1	Cb	79	HIS
1	Cc	79	HIS
1	Cd	79	HIS
1	Da	97	GLN
1	Dc	97	GLN
1	Dd	97	GLN
1	FU	97	GLN
1	GU	58	ASN
1	HU	85	HIS
1	Ha	85	HIS
1	Hb	85	HIS
1	Hc	85	HIS
1	Hd	85	HIS
1	IU	58	ASN
1	IU	85	HIS
1	Ia	58	ASN
1	Ia	85	HIS
1	Ib	85	HIS
1	Ic	85	HIS
1	Id	58	ASN
1	Id	85	HIS
1	Ja	79	HIS
1	Jb	79	HIS
1	Jc	79	HIS
1	KU	39	GLN
1	Ka	39	GLN
1	Kb	39	GLN
1	Kc	39	GLN
1	Kd	39	GLN
1	LU	97	GLN
1	La	58	ASN
1	La	97	GLN
1	Lb	58	ASN
1	Lb	97	GLN
1	Lc	97	GLN
1	Ld	97	GLN
1	MU	90	ASN
1	Ma	90	ASN
1	Mb	90	ASN
1	Mc	90	ASN

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Mol	Chain	Res	Type
1	OU	58	ASN
1	OU	79	HIS
1	Oa	58	ASN
1	Ob	58	ASN
1	Oc	58	ASN
1	Od	58	ASN
3	Xd	692	GLN
3	Xd	700	ASN
3	XU	692	GLN
3	XU	700	ASN
3	Ya	705	ASN
3	Ya	732	HIS
3	Ya	794	HIS
3	Yb	732	HIS
3	Yb	794	HIS
3	Yc	794	HIS
3	Yd	705	ASN
3	Yd	794	HIS
3	YU	794	HIS
1	Ct	79	HIS
1	Cu	79	HIS
1	Cv	79	HIS
1	Cw	79	HIS
1	Cx	58	ASN
1	Cx	79	HIS
1	Dt	97	GLN
1	Dv	79	HIS
1	Dv	97	GLN
1	Dx	97	GLN
1	Ev	85	HIS
1	Fu	79	HIS
1	Fv	79	HIS
1	Fv	85	HIS
1	Fw	79	HIS
1	Fx	79	HIS
1	Gu	39	GLN
1	Ht	85	HIS
1	Hu	85	HIS
1	Hv	85	HIS
1	Hw	85	HIS
1	Hx	85	HIS
1	It	58	ASN

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Mol	Chain	Res	Type
1	It	85	HIS
1	Iu	58	ASN
1	Iv	58	ASN
1	Iv	85	HIS
1	Iw	58	ASN
1	Iw	85	HIS
1	Ix	58	ASN
1	Ix	79	HIS
1	Ix	85	HIS
1	Jw	79	HIS
1	Kt	39	GLN
1	Ku	39	GLN
1	Kv	39	GLN
1	Kw	39	GLN
1	Kx	39	GLN
1	Lt	97	GLN
1	Lu	97	GLN
1	Lv	97	GLN
1	Lw	97	GLN
1	Lx	97	GLN
1	Mt	90	ASN
1	Mu	90	ASN
1	Mv	90	ASN
1	Mw	90	ASN
1	Mx	90	ASN
1	Ot	58	ASN
1	Ou	58	ASN
1	Ov	58	ASN
1	Ow	58	ASN
1	Ox	58	ASN
2	Pw	5	GLN
2	Pw	14	ASN
2	Pw	36	GLN
3	Xt	692	GLN
3	Xt	699	GLN
3	Xt	700	ASN
3	Xu	648	GLN
3	Xv	700	ASN
3	Xx	700	ASN
3	Yt	794	HIS
3	Yu	794	HIS
3	Yv	705	ASN

Continued on next page...

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Mol	Chain	Res	Type
3	Yv	794	HIS
3	Yw	794	HIS
3	Yx	794	HIS
1	Am	39	GLN
1	Bl	79	HIS
1	Bm	90	ASN
1	Ck	79	HIS
1	Cl	79	HIS
1	Cm	79	HIS
1	Cn	79	HIS
1	Co	79	HIS
1	Dk	97	GLN
1	Dm	97	GLN
1	Do	97	GLN
1	Fo	79	HIS
1	Gk	85	HIS
1	Hk	85	HIS
1	Hl	85	HIS
1	Hm	85	HIS
1	Hn	85	HIS
1	Ho	85	HIS
1	Ik	85	HIS
1	Il	58	ASN
1	Im	58	ASN
1	Im	85	HIS
1	In	58	ASN
1	In	79	HIS
1	In	85	HIS
1	Io	58	ASN
1	Io	85	HIS
1	Jk	79	HIS
1	Jl	79	HIS
1	Jn	79	HIS
1	Jo	79	HIS
1	Kk	39	GLN
1	Kl	39	GLN
1	Kn	39	GLN
1	Ko	39	GLN
1	Lk	97	GLN
1	Ll	97	GLN
1	Ln	97	GLN
1	Lo	97	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	Mk	90	ASN
1	Ml	90	ASN
1	Mn	90	ASN
1	Mo	90	ASN
1	Ok	58	ASN
1	Ol	58	ASN
1	On	58	ASN
1	Oo	58	ASN
3	Xk	648	GLN
3	Xk	700	ASN
3	Xl	636	GLN
3	Xl	700	ASN
3	Xo	692	GLN
3	Xo	700	ASN
3	Yk	705	ASN
3	Yk	794	HIS
3	Yl	794	HIS
3	Ym	705	ASN
3	Ym	794	HIS
3	Yn	705	ASN
3	Yn	794	HIS
3	Yo	794	HIS
1	Ap	97	GLN
1	Cj	79	HIS
1	Cp	79	HIS
1	Cq	79	HIS
1	Cr	79	HIS
1	Cs	79	HIS
1	Dp	97	GLN
1	Dr	97	GLN
1	Ds	97	GLN
1	Gj	58	ASN
1	Hj	85	HIS
1	Hp	85	HIS
1	Hq	85	HIS
1	Hr	85	HIS
1	Hs	85	HIS
1	Ij	85	HIS
1	Ip	58	ASN
1	Ip	85	HIS
1	Iq	85	HIS
1	Ir	85	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	Is	58	ASN
1	Is	85	HIS
1	Jj	79	HIS
1	Jp	79	HIS
1	Jq	79	HIS
1	Jr	79	HIS
1	Kj	39	GLN
1	Kp	39	GLN
1	Kq	39	GLN
1	Kr	39	GLN
1	Ks	39	GLN
1	Lj	97	GLN
1	Lp	97	GLN
1	Lq	58	ASN
1	Lq	97	GLN
1	Lr	97	GLN
1	Ls	97	GLN
1	Mj	90	ASN
1	Mq	90	ASN
1	Mr	90	ASN
1	Ms	90	ASN
1	Oj	58	ASN
1	Op	58	ASN
1	Oq	58	ASN
1	Or	58	ASN
1	Os	58	ASN
3	Xp	648	GLN
3	Xp	692	GLN
3	Xp	700	ASN
3	Xs	692	GLN
3	Xs	700	ASN
3	Xj	692	GLN
3	Xj	700	ASN
3	Yp	705	ASN
3	Yp	732	HIS
3	Yp	794	HIS
3	Yq	732	HIS
3	Yq	794	HIS
3	Yr	732	HIS
3	Yr	794	HIS
3	Ys	705	ASN
3	Ys	794	HIS

Continued on next page...

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Mol	Chain	Res	Type
3	Yj	794	HIS
1	DD	97	GLN
3	XD	700	ASN
1	D4	39	GLN
1	D4	58	ASN
1	D4	79	HIS
1	D4	97	GLN
1	J3	79	HIS
1	D7	97	GLN
1	J6	79	HIS
3	X7	700	ASN
3	X8	630	ASN
3	X8	636	GLN
1	DS	39	GLN
1	DS	79	HIS
1	DS	97	GLN
3	XS	648	GLN
3	XS	700	ASN
1	DM	58	ASN
1	DM	79	HIS
1	DM	97	GLN
3	Xh	700	ASN
3	Xb	700	ASN
1	Dw	39	GLN
1	Dw	58	ASN
1	Dw	97	GLN
1	Jv	58	ASN
3	Xw	700	ASN
1	Dn	39	GLN
3	Xq	700	ASN
3	X5	636	GLN
3	X5	700	ASN
1	DR	97	GLN
1	LM	97	GLN
1	LN	97	GLN
1	Fh	79	HIS
1	JY	79	HIS
3	XX	692	GLN
3	XX	700	ASN
1	Dj	79	HIS
1	EL	90	ASN
3	XM	636	GLN

Continued on next page...

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Mol	Chain	Res	Type
3	XM	700	ASN
1	Dh	39	GLN
1	Dh	79	HIS
1	Dh	85	HIS
1	Dh	97	GLN
1	DY	79	HIS
1	Db	39	GLN
1	Db	79	HIS
1	Dq	79	HIS
1	Dq	90	ASN
1	Dq	97	GLN
1	L3	97	GLN
3	Y3	732	HIS
3	Y3	794	HIS
1	DJ	97	GLN
1	DH	39	GLN
1	DH	97	GLN
3	Xa	648	GLN
3	Xa	692	GLN
3	Xa	700	ASN
1	DI	97	GLN
1	D6	58	ASN
1	D6	97	GLN
1	Df	97	GLN
3	XN	630	ASN
3	X3	648	GLN
3	X3	692	GLN
3	X3	700	ASN
1	JI	79	HIS
1	KI	39	GLN
1	LI	97	GLN
1	OI	58	ASN
1	JU	79	HIS
1	Km	39	GLN
1	Om	58	ASN
3	XI	647	GLN
3	XI	692	GLN
1	DU	79	HIS
1	Dl	58	ASN
1	EF	85	HIS
1	DF	58	ASN
1	MK	58	ASN

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Mol	Chain	Res	Type
1	JF	79	HIS
1	Jm	79	HIS
1	Lm	58	ASN
1	Lm	79	HIS
1	MF	90	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

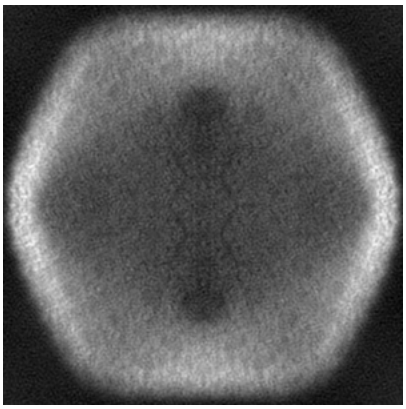
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-62529. These allow visual inspection of the internal detail of the map and identification of artifacts.

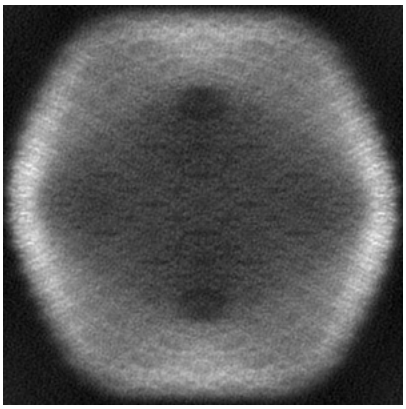
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

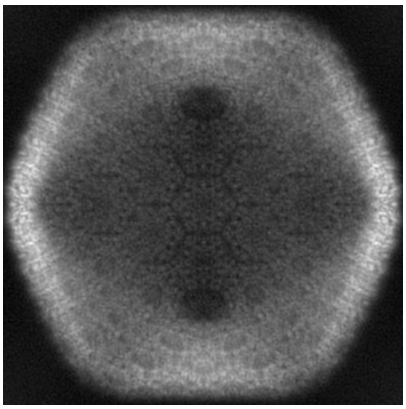
6.1.1 Primary map



X

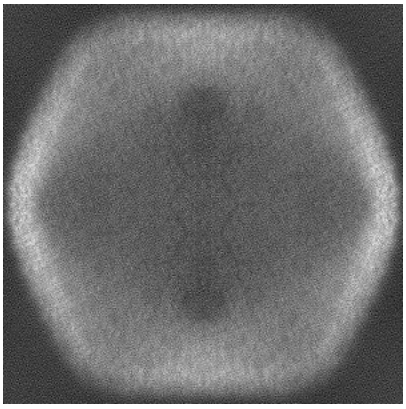


Y

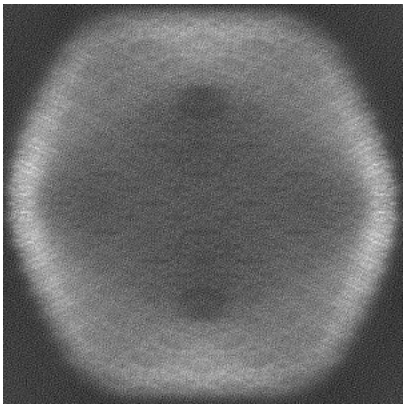


Z

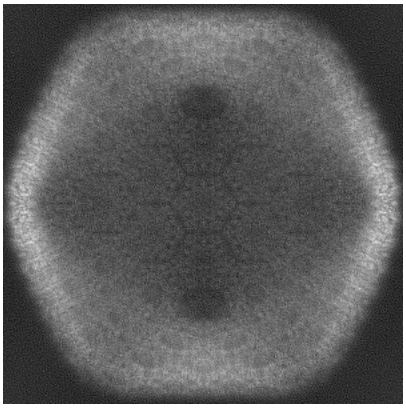
6.1.2 Raw map



X



Y

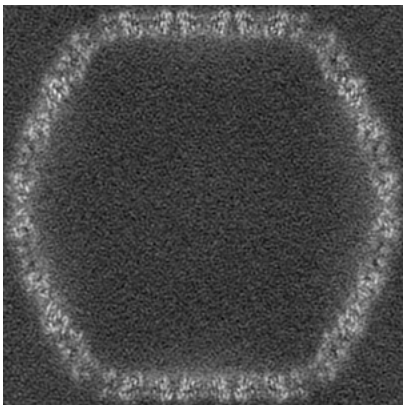


Z

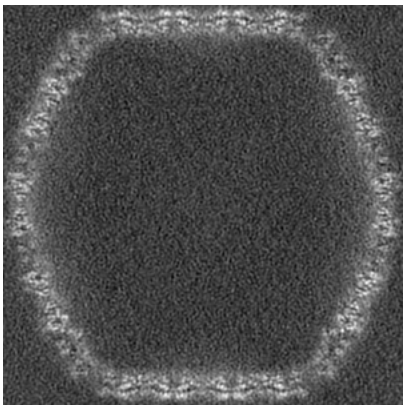
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

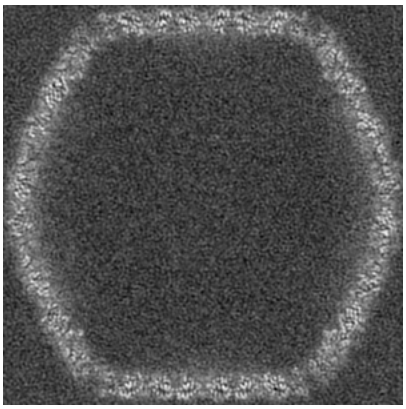
6.2.1 Primary map



X Index: 175

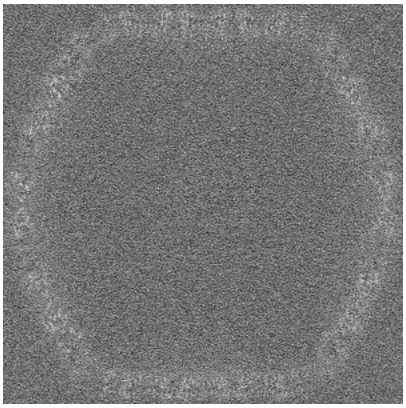


Y Index: 175

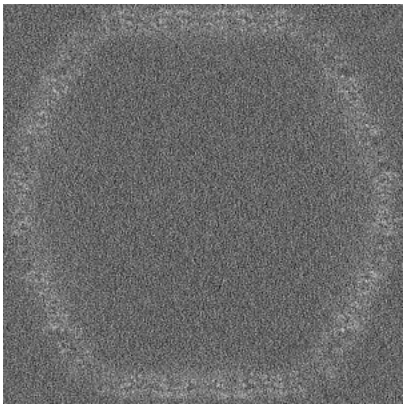


Z Index: 175

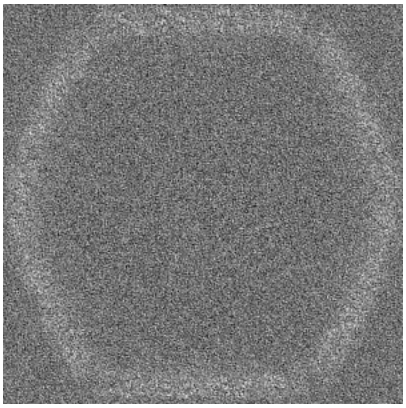
6.2.2 Raw map



X Index: 175



Y Index: 175

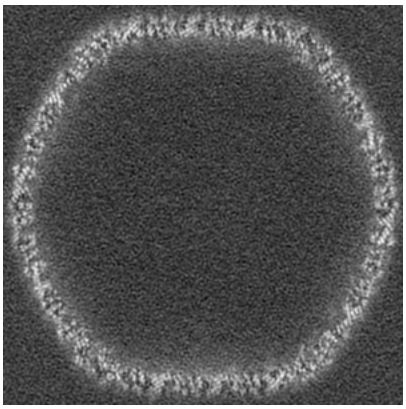


Z Index: 175

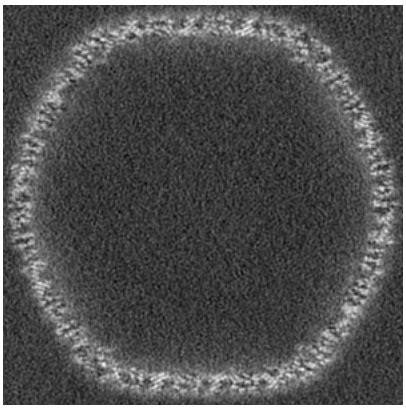
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

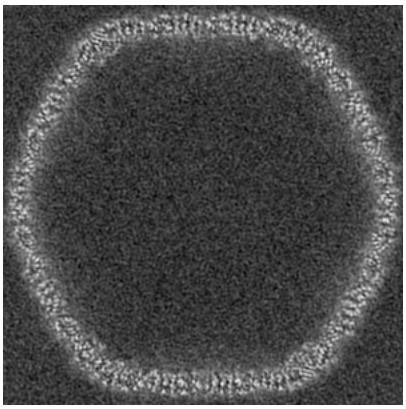
6.3.1 Primary map



X Index: 141

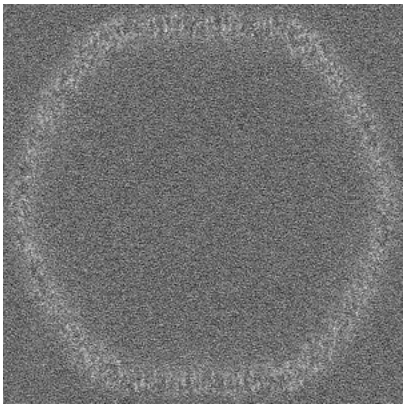


Y Index: 141

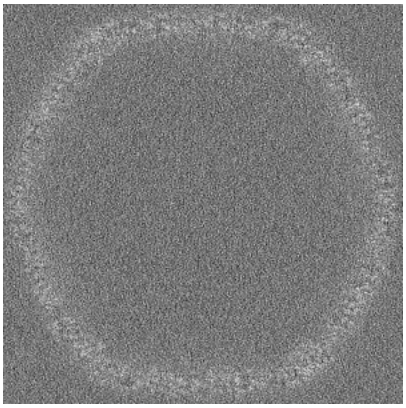


Z Index: 204

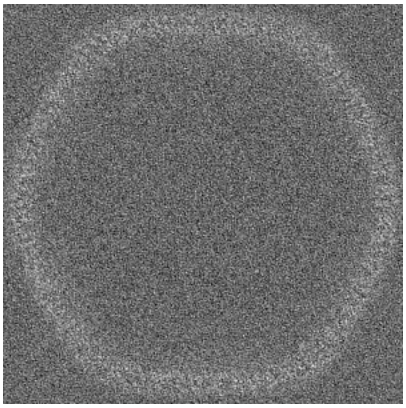
6.3.2 Raw map



X Index: 144



Y Index: 205

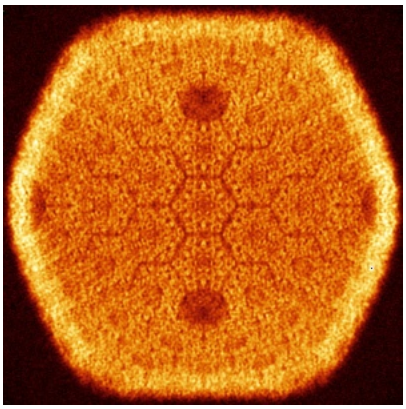


Z Index: 140

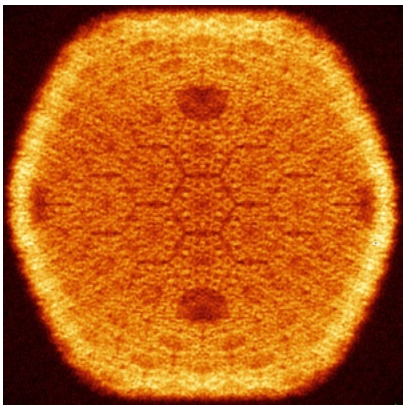
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

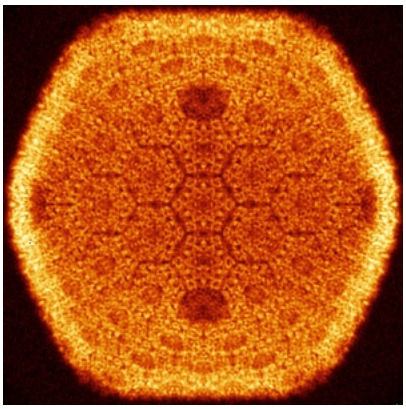
6.4.1 Primary map



X

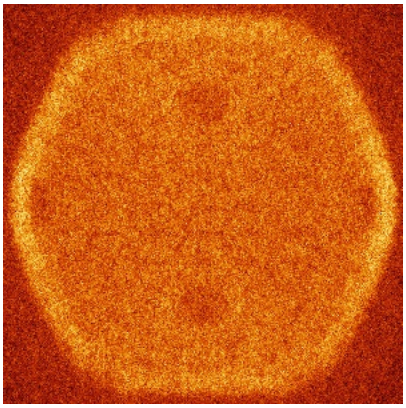


Y

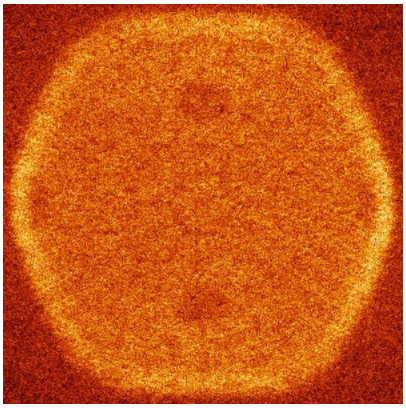


Z

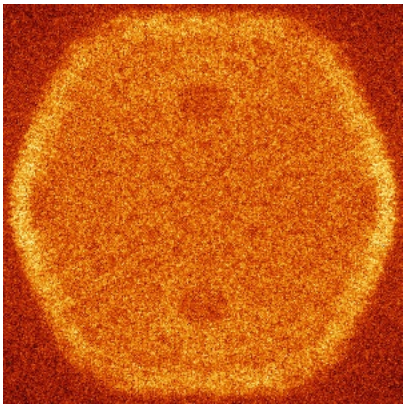
6.4.2 Raw map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

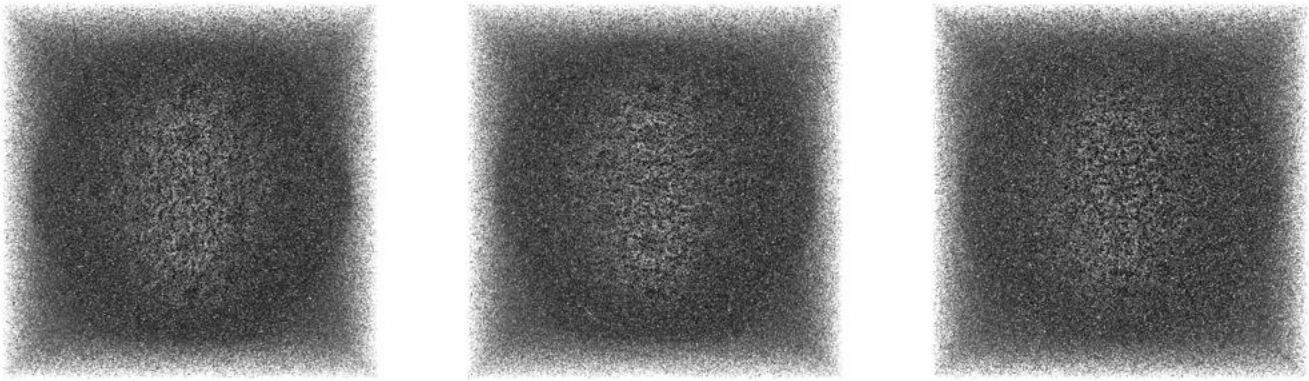
6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.2. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

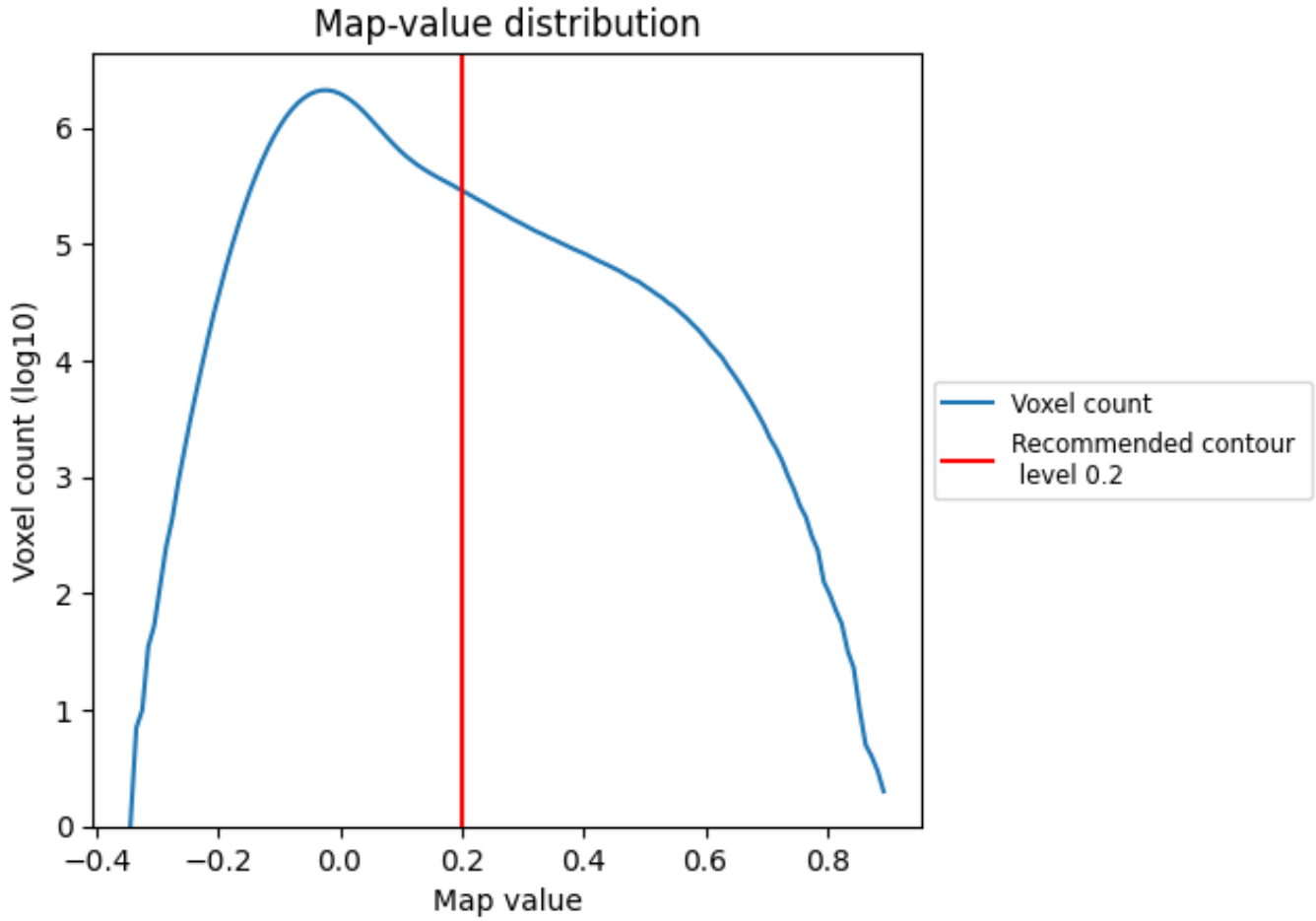
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

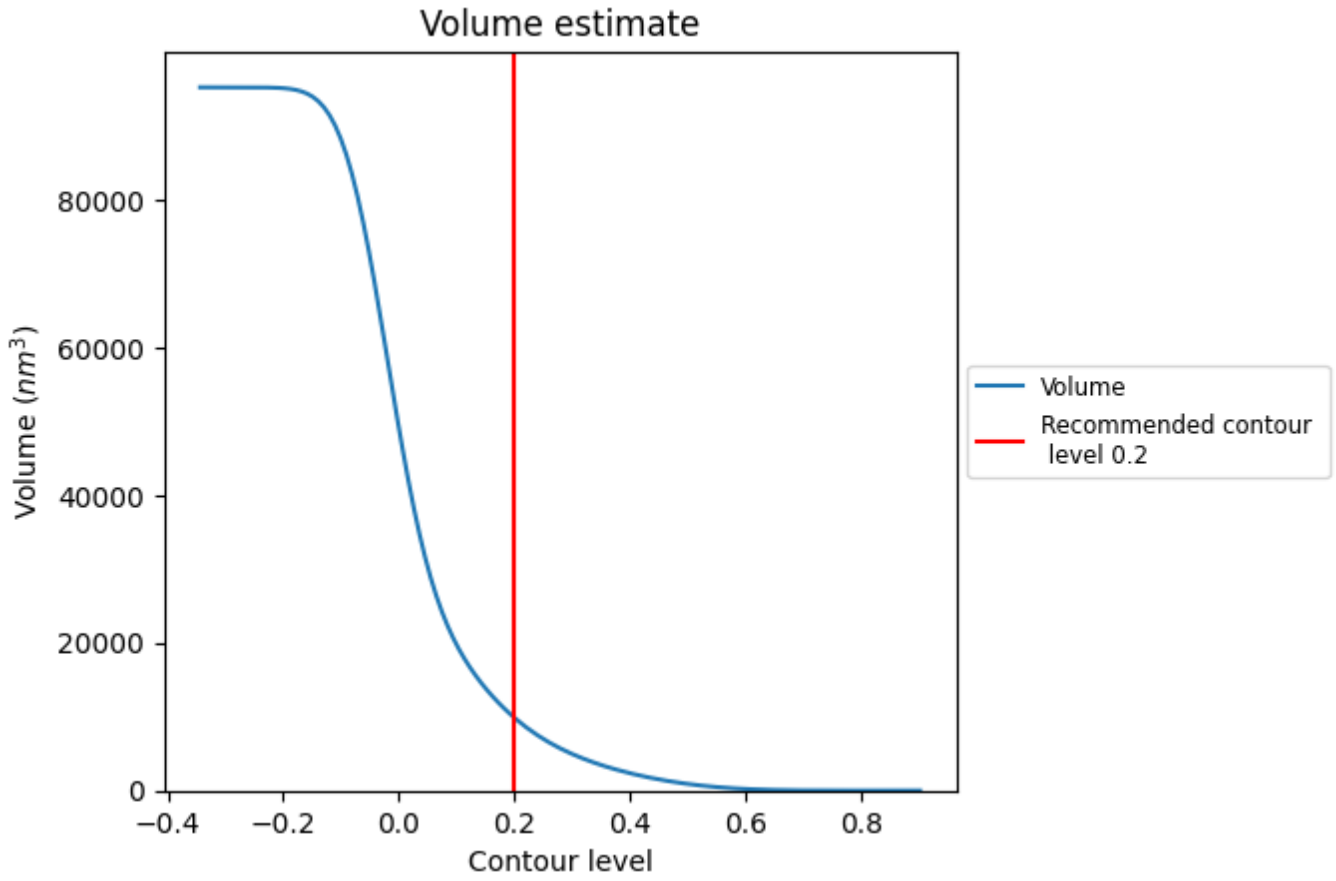
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

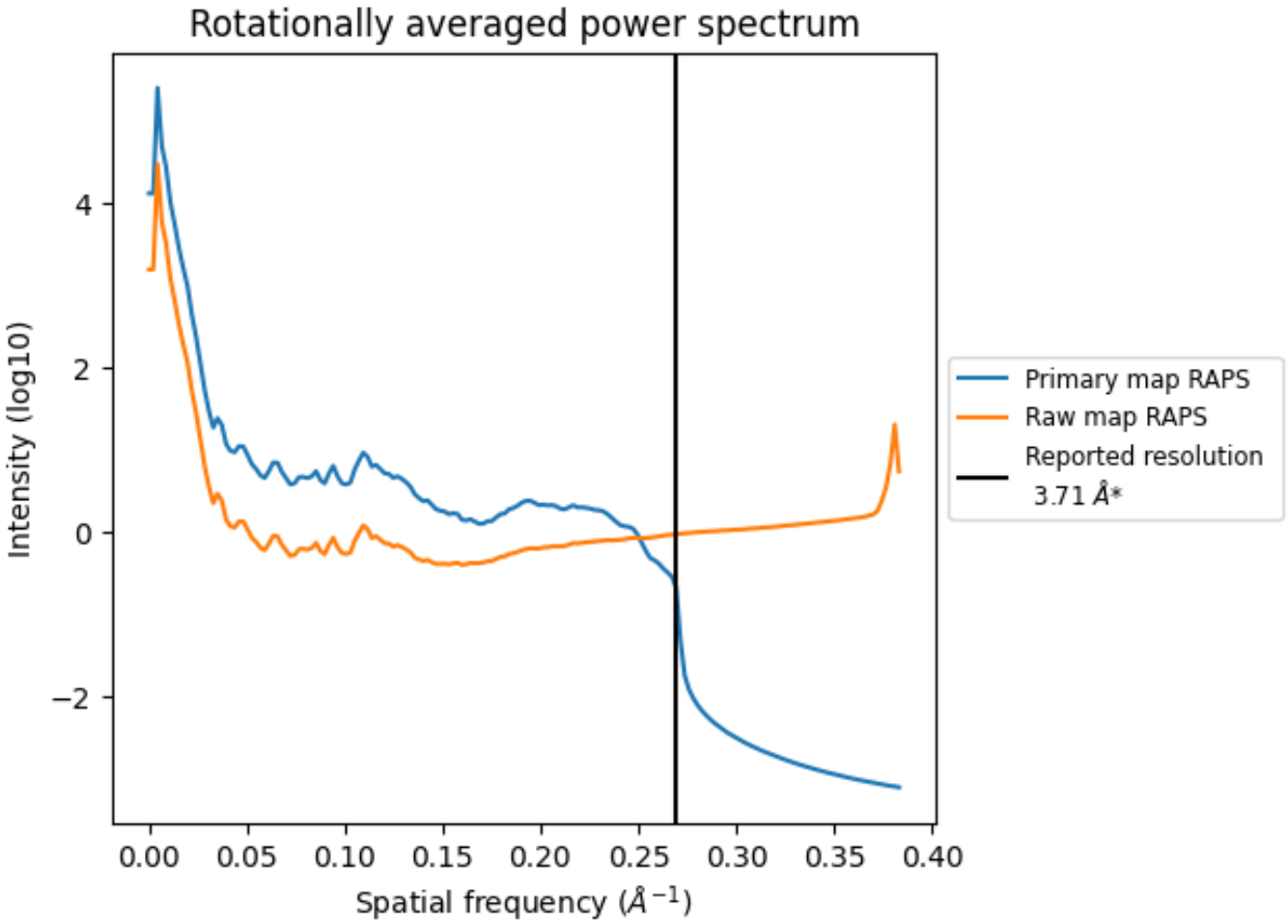
7.2 Volume estimate



The volume at the recommended contour level is 9866 nm^3; this corresponds to an approximate mass of 8912 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

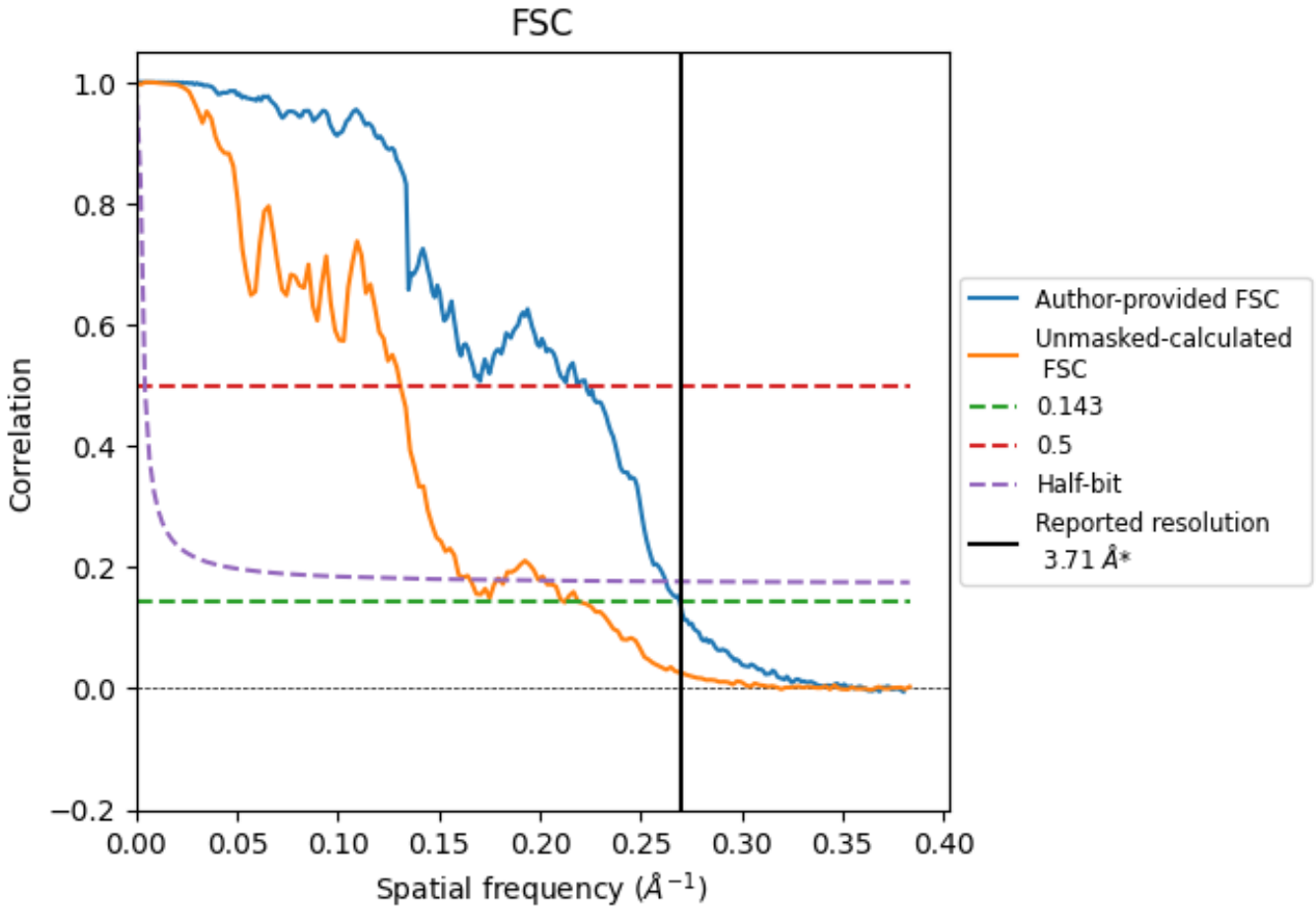


*Reported resolution corresponds to spatial frequency of 0.270 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.270 Å^{-1}

8.2 Resolution estimates (i)

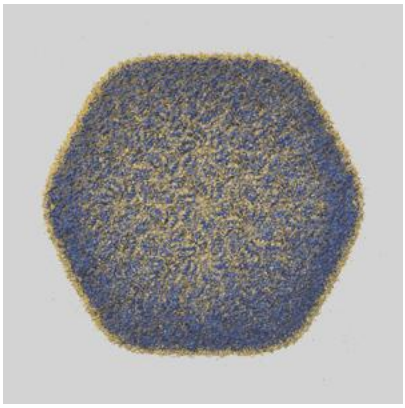
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.71	-	-
Author-provided FSC curve	3.71	4.49	3.81
Unmasked-calculated*	4.72	7.63	6.05

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.72 differs from the reported value 3.71 by more than 10 %

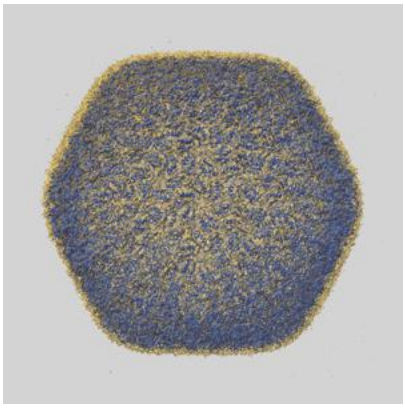
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-62529 and PDB model 9LY9. Per-residue inclusion information can be found in section 3 on page 99.

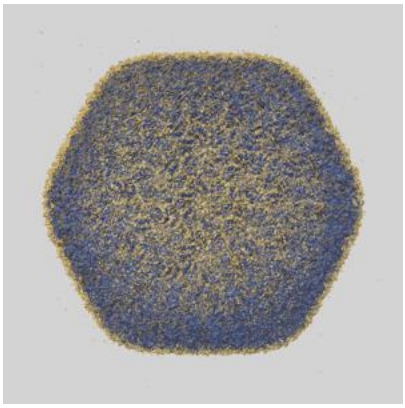
9.1 Map-model overlay



X



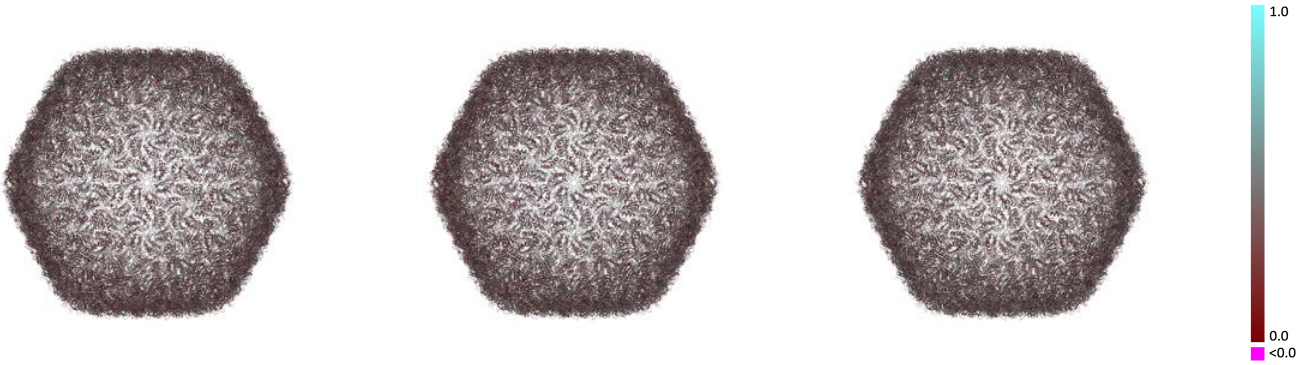
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.2 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

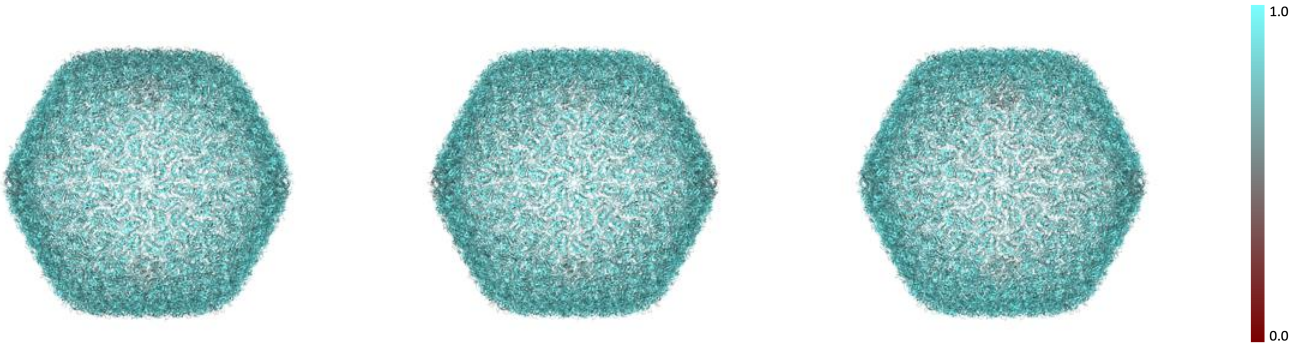
9.2 Q-score mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

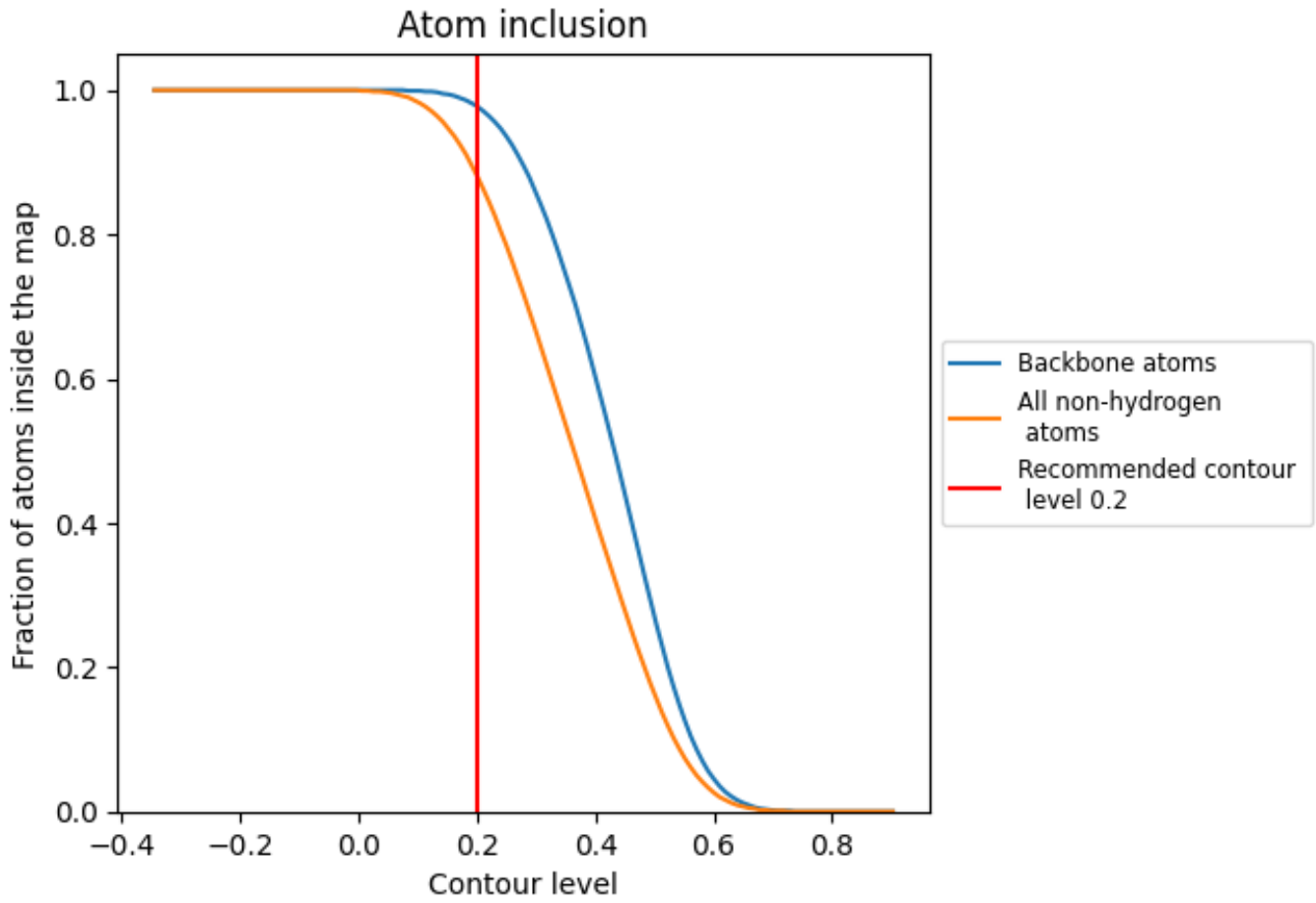
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.2).

9.4 Atom inclusion (i)



At the recommended contour level, 98% of all backbone atoms, 88% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8820	0.3610
A0	0.9060	0.3710
A1	0.9300	0.3930
A2	0.9360	0.3980
A3	0.8990	0.3820
A4	0.9170	0.4000
A5	0.9200	0.3730
A6	0.9270	0.3890
A7	0.9080	0.3790
A8	0.9080	0.3860
A9	0.9240	0.3800
AA	0.9450	0.3810
AB	0.9190	0.3660
AC	0.8130	0.3730
AD	0.8720	0.3520
AE	0.9410	0.3940
AF	0.9220	0.3860
AG	0.9330	0.3830
AH	0.8240	0.3590
AI	0.8270	0.3560
AJ	0.9270	0.3630
AK	0.9190	0.3700
AL	0.8990	0.3890
AM	0.9170	0.3750
AN	0.9080	0.3800
AO	0.9020	0.3610
AP	0.9050	0.3660
AQ	0.9050	0.3710
AR	0.9310	0.3840
AS	0.9140	0.3730
AT	0.8500	0.3590
AU	0.8530	0.3480
AV	0.8990	0.3660
AW	0.8880	0.3690
AX	0.9470	0.4000

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Chain	Atom inclusion	Q-score
AY	0.9220	0.3830
AZ	0.9080	0.3550
Aa	0.7830	0.3570
Ab	0.8880	0.3560
Ac	0.9200	0.3770
Ad	0.9280	0.3690
Ae	0.9050	0.3750
Af	0.9140	0.3880
Ag	0.9110	0.3840
Ah	0.9240	0.3800
Ai	0.9170	0.3860
Aj	0.8990	0.3900
Ak	0.9060	0.3800
Al	0.9280	0.4010
Am	0.9020	0.3980
An	0.9090	0.3770
Ao	0.9140	0.3910
Ap	0.9440	0.4020
Aq	0.9000	0.3830
Ar	0.8360	0.3700
As	0.8940	0.3740
At	0.9220	0.3860
Au	0.8580	0.3770
Av	0.8460	0.3580
Aw	0.8770	0.3760
Ax	0.9170	0.3700
B0	0.9310	0.3850
B1	0.8880	0.3880
B2	0.9310	0.3970
B3	0.9130	0.3990
B4	0.9130	0.3870
B5	0.9310	0.3820
B6	0.9050	0.3790
B7	0.9060	0.3830
B8	0.9060	0.3780
B9	0.9190	0.3790
BA	0.9200	0.3800
BB	0.9130	0.3680
BC	0.8330	0.3720
BD	0.8670	0.3790
BE	0.9240	0.3750
BF	0.9030	0.3650

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Chain	Atom inclusion	Q-score
BG	0.9110	0.3550
BH	0.8940	0.3830
BI	0.8420	0.3780
BJ	0.9160	0.3760
BK	0.9200	0.3680
BL	0.9170	0.4020
BM	0.8880	0.3710
BN	0.9200	0.3990
BO	0.9300	0.3910
BP	0.8950	0.3870
BQ	0.9140	0.3720
BR	0.9000	0.3650
BS	0.9250	0.3880
BT	0.9030	0.3610
BU	0.8740	0.3720
BV	0.8770	0.3690
BW	0.9130	0.3870
BX	0.9310	0.3920
BY	0.9060	0.3850
BZ	0.8940	0.3580
Ba	0.8180	0.3660
Bb	0.8780	0.3540
Bc	0.9170	0.3610
Bd	0.8920	0.3740
Be	0.8880	0.3770
Bf	0.8860	0.3750
Bg	0.9160	0.3910
Bh	0.9110	0.3800
Bi	0.9130	0.3790
Bj	0.9190	0.3970
Bk	0.9090	0.3800
Bl	0.9060	0.3680
Bm	0.9250	0.3830
Bn	0.9000	0.3740
Bo	0.9060	0.3770
Bp	0.9220	0.3900
Bq	0.9130	0.3850
Br	0.8570	0.3840
Bs	0.8880	0.3750
Bt	0.9160	0.3780
Bu	0.8570	0.3660
Bv	0.8110	0.3620

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Chain	Atom inclusion	Q-score
Bw	0.8710	0.3600
Bx	0.8990	0.3700
C0	0.9240	0.3780
C1	0.9280	0.3740
C2	0.9030	0.3710
C3	0.9170	0.3880
C4	0.9060	0.3790
C5	0.9190	0.3770
C6	0.9170	0.3840
C7	0.9160	0.3710
C8	0.9000	0.3670
C9	0.9300	0.3820
CA	0.9360	0.3740
CB	0.9090	0.3820
CC	0.8300	0.3720
CD	0.8910	0.3830
CE	0.9450	0.3930
CF	0.9110	0.3710
CG	0.9190	0.3590
CH	0.8740	0.3600
CI	0.8440	0.3480
CJ	0.9380	0.3660
CK	0.9340	0.3840
CL	0.9060	0.3810
CM	0.8850	0.3740
CN	0.8950	0.3780
CO	0.9340	0.3850
CP	0.8860	0.3660
CQ	0.9200	0.3870
CR	0.9060	0.3710
CS	0.9050	0.3560
CT	0.8690	0.3740
CU	0.8710	0.3550
CV	0.8830	0.3610
CW	0.9080	0.3700
CX	0.9190	0.3750
CY	0.9200	0.3650
CZ	0.9080	0.3630
Ca	0.8300	0.3690
Cb	0.8940	0.3590
Cc	0.9250	0.3650
Cd	0.8970	0.3530

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Chain	Atom inclusion	Q-score
Ce	0.9090	0.3830
Cf	0.8810	0.3680
Cg	0.9110	0.3790
Ch	0.9080	0.3680
Ci	0.8920	0.3630
Cj	0.9250	0.3820
Ck	0.9220	0.3860
Cl	0.9020	0.3760
Cm	0.9140	0.3810
Cn	0.9090	0.3860
Co	0.9030	0.3680
Cp	0.8990	0.3860
Cq	0.8860	0.3630
Cr	0.8720	0.3880
Cs	0.8670	0.3830
Ct	0.9110	0.3760
Cu	0.8490	0.3730
Cv	0.8300	0.3680
Cw	0.9160	0.3700
Cx	0.9030	0.3750
D0	0.9360	0.3810
D1	0.9090	0.3810
D2	0.8830	0.3560
D3	0.8940	0.3480
D4	0.9440	0.4130
D5	0.9000	0.3510
D6	0.8970	0.3630
D7	0.9240	0.4060
D8	0.9060	0.3690
D9	0.9160	0.3760
DA	0.9360	0.3710
DB	0.8940	0.4150
DC	0.8460	0.3670
DD	0.9310	0.4010
DE	0.9190	0.3660
DF	0.9390	0.4100
DG	0.8910	0.3430
DH	0.8580	0.3820
DI	0.8920	0.3670
DJ	0.9330	0.3990
DK	0.9190	0.3800
DL	0.9110	0.3520

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Chain	Atom inclusion	Q-score
DM	0.9060	0.3770
DN	0.8880	0.3470
DO	0.9130	0.3600
DP	0.9090	0.3630
DQ	0.9420	0.3800
DR	0.9190	0.3720
DS	0.9390	0.3950
DT	0.8600	0.3550
DU	0.8570	0.3690
DV	0.8990	0.3610
DW	0.9320	0.3850
DX	0.9030	0.3570
DY	0.9300	0.4060
DZ	0.8630	0.3350
Da	0.8640	0.3530
Db	0.9440	0.4140
Dc	0.9020	0.3620
Dd	0.8750	0.3590
De	0.9030	0.3520
Df	0.8770	0.3500
Dg	0.9280	0.3700
Dh	0.9520	0.4170
Di	0.9110	0.3640
Dj	0.9290	0.3890
Dk	0.9130	0.3780
Dl	0.9230	0.3850
Dm	0.9200	0.3620
Dn	0.9390	0.4060
Do	0.9190	0.3680
Dp	0.9160	0.3600
Dq	0.9170	0.4020
Dr	0.8550	0.3650
Ds	0.9050	0.3670
Dt	0.9060	0.3730
Du	0.8530	0.3760
Dv	0.8950	0.3630
Dw	0.9470	0.4150
Dx	0.9170	0.3810
E0	0.9200	0.3640
E1	0.9160	0.3630
E2	0.8890	0.3590
E3	0.9330	0.3880

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Chain	Atom inclusion	Q-score
E4	0.9240	0.3700
E5	0.9090	0.3760
E6	0.9060	0.3680
E7	0.8920	0.3680
E8	0.9190	0.3500
E9	0.9310	0.3800
EA	0.9050	0.3580
EB	0.8280	0.3470
EC	0.8860	0.3650
ED	0.9240	0.3600
EE	0.9330	0.3610
EF	0.9500	0.4190
EG	0.8600	0.3520
EH	0.8520	0.3490
EI	0.8950	0.3490
EJ	0.9090	0.3500
EK	0.9340	0.3620
EL	0.9410	0.4200
EM	0.8850	0.3610
EN	0.9250	0.3650
EO	0.9280	0.3690
EP	0.9220	0.3730
EQ	0.9280	0.3660
ER	0.9270	0.3690
ES	0.8880	0.3550
ET	0.8800	0.3520
EU	0.8210	0.3450
EV	0.8940	0.3730
EW	0.9230	0.3790
EX	0.9160	0.3570
EY	0.8940	0.3610
EZ	0.8750	0.3400
Ea	0.8990	0.3460
Eb	0.9110	0.3460
Ec	0.9080	0.3560
Ed	0.8660	0.3480
Ee	0.8950	0.3520
Ef	0.9050	0.3610
Eg	0.9220	0.3660
Eh	0.9190	0.3650
Ei	0.9240	0.3810
Ej	0.9110	0.3740

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Chain	Atom inclusion	Q-score
Ek	0.9000	0.3650
El	0.9100	0.3850
Em	0.9000	0.3740
En	0.9020	0.3540
Eo	0.9190	0.3780
Ep	0.9130	0.3730
Eq	0.8670	0.3740
Er	0.8920	0.3570
Es	0.9090	0.3710
Et	0.8720	0.3630
Eu	0.8380	0.3510
Ev	0.8940	0.3750
Ew	0.9160	0.3650
Ex	0.9200	0.3620
F0	0.9280	0.3660
F1	0.9130	0.3820
F2	0.8990	0.3720
F3	0.8990	0.3660
F4	0.9270	0.3750
F5	0.9030	0.3660
F6	0.9280	0.3810
F7	0.9280	0.3800
F8	0.9130	0.3420
F9	0.9110	0.3650
FA	0.9250	0.3590
FB	0.8460	0.3710
FC	0.8600	0.3610
FD	0.9050	0.3660
FE	0.9190	0.3690
FF	0.9370	0.4040
FG	0.8970	0.3550
FH	0.8110	0.3430
FI	0.8950	0.3650
FJ	0.8950	0.3650
FK	0.9110	0.3580
FL	0.9000	0.3760
FM	0.9140	0.3710
FN	0.9140	0.3650
FO	0.9020	0.3510
FP	0.9200	0.3560
FQ	0.8970	0.3600
FR	0.9490	0.3680

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Chain	Atom inclusion	Q-score
FS	0.8940	0.3500
FT	0.8850	0.3550
FU	0.8250	0.3640
FV	0.9000	0.3820
FW	0.9110	0.3660
FX	0.9090	0.3720
FY	0.8880	0.3520
FZ	0.8780	0.3470
Fa	0.8580	0.3530
Fb	0.9110	0.3680
Fc	0.8990	0.3520
Fd	0.8770	0.3510
Fe	0.8830	0.3550
Ff	0.9110	0.3860
Fg	0.9030	0.3610
Fh	0.9390	0.3750
Fi	0.8920	0.3560
Fj	0.9130	0.3820
Fk	0.8970	0.3560
Fl	0.9030	0.3810
Fm	0.8890	0.3610
Fn	0.9140	0.3570
Fo	0.9190	0.3790
Fp	0.9390	0.3800
Fq	0.8890	0.3760
Fr	0.8710	0.3740
Fs	0.9300	0.3900
Ft	0.9060	0.3810
Fu	0.8240	0.3550
Fv	0.8940	0.3620
Fw	0.9060	0.3620
Fx	0.9090	0.3560
G0	0.9520	0.4280
G1	0.9050	0.3760
G2	0.9250	0.4090
G3	0.8810	0.3810
G4	0.9030	0.3780
G5	0.8850	0.3670
G6	0.9170	0.3870
G7	0.8950	0.3780
G8	0.9050	0.3870
G9	0.9340	0.3830

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Chain	Atom inclusion	Q-score
GA	0.9440	0.3910
GB	0.8690	0.3790
GC	0.8520	0.3720
GD	0.9270	0.3870
GE	0.9380	0.3860
GF	0.9080	0.3880
GG	0.9130	0.3720
GH	0.8240	0.3690
GI	0.9170	0.3960
GJ	0.9200	0.3550
GK	0.9280	0.3780
GL	0.8890	0.3760
GM	0.8860	0.3730
GN	0.8890	0.3710
GO	0.9030	0.3780
GP	0.8990	0.3690
GQ	0.9090	0.3910
GR	0.9080	0.3760
GS	0.8860	0.3410
GT	0.8640	0.3670
GU	0.8320	0.3590
GV	0.8830	0.3720
GW	0.9360	0.3930
GX	0.9130	0.3850
GY	0.8950	0.3670
GZ	0.8800	0.3650
Ga	0.8390	0.3600
Gb	0.9220	0.3800
Gc	0.9080	0.3720
Gd	0.8850	0.3640
Ge	0.8890	0.3750
Gf	0.8910	0.3890
Gg	0.8970	0.3830
Gh	0.9060	0.3770
Gi	0.9000	0.3740
Gj	0.9350	0.4160
Gk	0.8890	0.3720
Gl	0.9260	0.4010
Gm	0.9000	0.3780
Gn	0.9050	0.3700
Go	0.8860	0.3670
Gp	0.9110	0.3860

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Chain	Atom inclusion	Q-score
Gq	0.8580	0.3790
Gr	0.8720	0.3800
Gs	0.8970	0.3820
Gt	0.8880	0.3820
Gu	0.8320	0.3710
Gv	0.8860	0.3820
Gw	0.9160	0.3780
Gx	0.9130	0.3840
H0	0.9000	0.3760
H1	0.8950	0.3870
H2	0.9330	0.3780
H3	0.8940	0.3840
H4	0.9390	0.3920
H5	0.9310	0.3900
H6	0.9410	0.3940
H7	0.9280	0.3800
H8	0.9090	0.3810
H9	0.9440	0.3720
HA	0.9410	0.3830
HB	0.8780	0.3750
HC	0.8520	0.3720
HD	0.9050	0.3530
HE	0.9610	0.3980
HF	0.9310	0.3910
HG	0.9130	0.3690
HH	0.8270	0.3590
HI	0.8950	0.3600
HJ	0.9250	0.3760
HK	0.9340	0.3780
HL	0.9020	0.3760
HM	0.9240	0.3920
HN	0.9360	0.3820
HO	0.9130	0.3760
HP	0.9170	0.3700
HQ	0.8910	0.3630
HR	0.9380	0.3890
HS	0.8800	0.3650
HT	0.8830	0.3680
HU	0.8380	0.3720
HV	0.9110	0.3800
HW	0.8950	0.3630
HX	0.9310	0.3810

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Chain	Atom inclusion	Q-score
HY	0.9300	0.3710
HZ	0.8990	0.3800
Ha	0.8580	0.3560
Hb	0.9280	0.3620
Hc	0.9060	0.3580
Hd	0.9020	0.3590
He	0.8920	0.3800
Hf	0.9140	0.3930
Hg	0.9000	0.3660
Hh	0.9360	0.3900
Hi	0.9090	0.3830
Hj	0.9160	0.3770
Hk	0.8990	0.3660
Hl	0.9390	0.3950
Hm	0.9080	0.3880
Hn	0.9300	0.3930
Ho	0.9360	0.3970
Hp	0.9390	0.4050
Hq	0.8890	0.3840
Hr	0.8520	0.3760
Hs	0.9390	0.3950
Ht	0.8890	0.3810
Hu	0.8280	0.3740
Hv	0.8890	0.3660
Hw	0.8950	0.3630
Hx	0.9250	0.3760
I0	0.9110	0.3750
I1	0.9140	0.3750
I2	0.8950	0.3900
I3	0.9060	0.3760
I4	0.9200	0.3760
I5	0.9190	0.3800
I6	0.8890	0.3600
I7	0.9060	0.3720
I8	0.9110	0.3700
I9	0.9470	0.3990
IA	0.9200	0.3720
IB	0.8440	0.3570
IC	0.8780	0.3820
ID	0.9450	0.3880
IE	0.9410	0.3840
IF	0.9200	0.3850

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Chain	Atom inclusion	Q-score
IG	0.9080	0.3700
IH	0.8330	0.3420
II	0.9000	0.3860
IJ	0.9170	0.3820
IK	0.9270	0.3800
IL	0.9190	0.3820
IM	0.8990	0.3770
IN	0.9310	0.3770
IO	0.9080	0.3560
IP	0.9410	0.3900
IQ	0.9170	0.3730
IR	0.9200	0.3790
IS	0.8970	0.3860
IT	0.8710	0.3690
IU	0.8470	0.3540
IV	0.8990	0.3690
IW	0.9130	0.3670
IX	0.8950	0.3630
IY	0.9000	0.3600
IZ	0.8740	0.3520
Ia	0.8720	0.3640
Ib	0.9270	0.3820
Ic	0.9000	0.3590
Id	0.8740	0.3630
Ie	0.8690	0.3640
If	0.9000	0.3790
Ig	0.9190	0.3620
Ih	0.9030	0.3710
Ii	0.9000	0.3710
Ij	0.9330	0.3900
Ik	0.9000	0.3720
Il	0.8970	0.3760
Im	0.8920	0.3780
In	0.8990	0.3760
Io	0.9200	0.3690
Ip	0.9190	0.3800
Iq	0.8710	0.3770
Ir	0.8610	0.3750
Is	0.9420	0.3930
It	0.8890	0.3720
Iu	0.8080	0.3590
Iv	0.8780	0.3680

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Chain	Atom inclusion	Q-score
Iw	0.9240	0.3900
Ix	0.9200	0.3770
J0	0.9160	0.3520
J1	0.9170	0.3730
J2	0.8990	0.3690
J3	0.9130	0.3850
J4	0.9280	0.3720
J5	0.9000	0.3640
J6	0.9160	0.3850
J7	0.8990	0.3620
J8	0.9090	0.3680
J9	0.9110	0.3760
JA	0.9270	0.3650
JB	0.8740	0.3580
JC	0.8330	0.3740
JD	0.9190	0.3660
JE	0.9330	0.3700
JF	0.9130	0.3650
JG	0.9140	0.3730
JH	0.8070	0.3390
JI	0.8740	0.3420
JJ	0.8890	0.3620
JK	0.9060	0.3520
JL	0.8950	0.3570
JM	0.9030	0.3610
JN	0.9190	0.3580
JO	0.9130	0.3590
JP	0.9130	0.3440
JQ	0.8940	0.3480
JR	0.9050	0.3610
JS	0.9190	0.3510
JT	0.8630	0.3500
JU	0.8660	0.3460
JV	0.8830	0.3680
JW	0.9020	0.3600
JX	0.9160	0.3700
JY	0.9000	0.3470
JZ	0.8810	0.3600
Ja	0.8350	0.3430
Jb	0.9300	0.3520
Jc	0.8950	0.3500
Jd	0.8990	0.3520

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Chain	Atom inclusion	Q-score
Je	0.8950	0.3530
Jf	0.9080	0.3700
Jg	0.9110	0.3580
Jh	0.9080	0.3540
Ji	0.9280	0.3710
Jj	0.9060	0.3580
Jk	0.9080	0.3670
Jl	0.9000	0.3730
Jm	0.9030	0.3490
Jn	0.8970	0.3440
Jo	0.9200	0.3660
Jp	0.9310	0.3740
Jq	0.9060	0.3530
Jr	0.8460	0.3480
Js	0.9160	0.3680
Jt	0.9110	0.3750
Ju	0.8100	0.3570
Jv	0.9200	0.3980
Jw	0.9080	0.3630
Jx	0.9110	0.3590
K0	0.9030	0.3810
K1	0.9130	0.3810
K2	0.8950	0.3690
K3	0.9030	0.3760
K4	0.9000	0.3740
K5	0.9110	0.3890
K6	0.8920	0.3700
K7	0.9000	0.3750
K8	0.9060	0.3670
K9	0.9300	0.3840
KA	0.9170	0.3520
KB	0.8750	0.3610
KC	0.8460	0.3800
KD	0.9130	0.3640
KE	0.9160	0.3530
KF	0.9080	0.3750
KG	0.9060	0.3780
KH	0.8570	0.3590
KI	0.8690	0.3590
KJ	0.9250	0.3770
KK	0.9080	0.3670
KL	0.9050	0.3760

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Chain	Atom inclusion	Q-score
KM	0.8800	0.3600
KN	0.9170	0.3740
KO	0.9250	0.3730
KP	0.9360	0.3850
KQ	0.9080	0.3700
KR	0.9030	0.3590
KS	0.9190	0.3780
KT	0.8570	0.3600
KU	0.8520	0.3520
KV	0.8970	0.3790
KW	0.9130	0.3850
KX	0.9080	0.3690
KY	0.8940	0.3600
KZ	0.8710	0.3600
Ka	0.8190	0.3540
Kb	0.9380	0.3750
Kc	0.8830	0.3590
Kd	0.9000	0.3750
Ke	0.9030	0.3730
Kf	0.8950	0.3750
Kg	0.9250	0.3760
Kh	0.8850	0.3510
Ki	0.9140	0.3890
Kj	0.9140	0.3860
Kk	0.9270	0.3910
Kl	0.9130	0.3610
Km	0.9020	0.3730
Kn	0.9220	0.3790
Ko	0.9250	0.3890
Kp	0.9030	0.3620
Kq	0.9140	0.3920
Kr	0.8390	0.3690
Ks	0.9270	0.3770
Kt	0.9060	0.3610
Ku	0.8210	0.3650
Kv	0.8800	0.3650
Kw	0.9060	0.3630
Kx	0.9020	0.3660
L0	0.9310	0.3740
L1	0.9030	0.3670
L2	0.9170	0.3770
L3	0.8990	0.3630

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Chain	Atom inclusion	Q-score
L4	0.9200	0.3750
L5	0.9170	0.3750
L6	0.9170	0.3610
L7	0.9000	0.3700
L8	0.9110	0.3590
L9	0.9190	0.3540
LA	0.9220	0.3640
LB	0.9090	0.3700
LC	0.8380	0.3670
LD	0.9190	0.3570
LE	0.9390	0.3870
LF	0.9170	0.3530
LG	0.9160	0.3630
LH	0.8320	0.3330
LI	0.8720	0.3540
LJ	0.9060	0.3550
LK	0.9110	0.3640
LL	0.8830	0.3590
LM	0.9200	0.3760
LN	0.8920	0.3550
LO	0.9420	0.3700
LP	0.9000	0.3600
LQ	0.9360	0.3770
LR	0.9080	0.3600
LS	0.8970	0.3390
LT	0.8530	0.3450
LU	0.8780	0.3460
LV	0.8830	0.3490
LW	0.9360	0.3660
LX	0.9130	0.3730
LY	0.9020	0.3540
LZ	0.9090	0.3490
La	0.8300	0.3510
Lb	0.9250	0.3500
Lc	0.9390	0.3580
Ld	0.9000	0.3640
Le	0.9140	0.3620
Lf	0.8810	0.3480
Lg	0.9250	0.3800
Lh	0.9200	0.3650
Li	0.9000	0.3560
Lj	0.9410	0.3880

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Chain	Atom inclusion	Q-score
Lk	0.9270	0.3760
Ll	0.8920	0.3570
Lm	0.9590	0.4170
Ln	0.9200	0.3590
Lo	0.9160	0.3570
Lp	0.9190	0.3810
Lq	0.9060	0.3500
Lr	0.8470	0.3580
Ls	0.9050	0.3680
Lt	0.9050	0.3690
Lu	0.8320	0.3630
Lv	0.8890	0.3550
Lw	0.9050	0.3480
Lx	0.9250	0.3800
M0	0.9160	0.3740
M1	0.9280	0.3860
M2	0.9050	0.3760
M3	0.9110	0.3760
M4	0.9110	0.3500
M5	0.9190	0.3880
M6	0.8890	0.3540
M7	0.8990	0.3650
M8	0.9060	0.3690
M9	0.9140	0.3770
MA	0.9090	0.3630
MB	0.9080	0.3550
MC	0.8280	0.3570
MD	0.9170	0.3660
ME	0.9030	0.3660
MF	0.9130	0.3680
MG	0.9110	0.3650
MH	0.8270	0.3410
MI	0.8810	0.3440
MJ	0.9170	0.3700
MK	0.9160	0.3640
ML	0.9240	0.3710
MM	0.9030	0.3700
MN	0.9200	0.3710
MO	0.9200	0.3810
MP	0.9270	0.3640
MQ	0.8920	0.3620
MR	0.9090	0.3720

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Chain	Atom inclusion	Q-score
MS	0.9130	0.3460
MT	0.8410	0.3490
MU	0.8780	0.3390
MV	0.8990	0.3750
MW	0.9170	0.3710
MX	0.9170	0.3620
MY	0.9270	0.3850
MZ	0.8910	0.3540
Ma	0.8210	0.3440
Mb	0.9200	0.3470
Mc	0.9080	0.3610
Md	0.8890	0.3630
Me	0.9020	0.3730
Mf	0.8970	0.3650
Mg	0.9140	0.3710
Mh	0.8970	0.3630
Mi	0.9330	0.3840
Mj	0.9170	0.3660
Mk	0.9110	0.3600
Ml	0.9060	0.3620
Mm	0.9160	0.3750
Mn	0.9030	0.3740
Mo	0.9200	0.3820
Mp	0.9200	0.3750
Mq	0.9280	0.3650
Mr	0.8350	0.3670
Ms	0.9240	0.3730
Mt	0.9190	0.3670
Mu	0.8110	0.3470
Mv	0.8770	0.3440
Mw	0.9030	0.3630
Mx	0.9020	0.3710
N0	0.9060	0.3700
N1	0.9080	0.3720
N2	0.9020	0.3670
N3	0.8860	0.3670
N4	0.9170	0.3640
N5	0.9140	0.3780
N6	0.9050	0.3720
N7	0.8970	0.3660
N8	0.8950	0.3390
N9	0.9240	0.3620

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Chain	Atom inclusion	Q-score
NA	0.9250	0.3700
NB	0.9060	0.3710
NC	0.8220	0.3620
ND	0.9050	0.3650
NE	0.9140	0.3650
NF	0.9110	0.3660
NG	0.9310	0.3720
NH	0.8160	0.3310
NI	0.8270	0.3350
NJ	0.9050	0.3590
NK	0.8920	0.3500
NL	0.8830	0.3710
NM	0.9170	0.3600
NN	0.9020	0.3670
NO	0.8880	0.3400
NP	0.9280	0.3810
NQ	0.8990	0.3500
NR	0.9060	0.3600
NS	0.9190	0.3720
NT	0.8610	0.3540
NU	0.8580	0.3450
NV	0.8830	0.3690
NW	0.8910	0.3550
NX	0.9160	0.3550
NY	0.9200	0.3780
NZ	0.8810	0.3460
Na	0.8030	0.3470
Nb	0.9090	0.3540
Nc	0.8990	0.3550
Nd	0.8990	0.3630
Ne	0.9060	0.3600
Nf	0.8970	0.3620
Ng	0.8970	0.3640
Nh	0.8950	0.3570
Ni	0.9050	0.3580
Nj	0.9030	0.3560
Nk	0.9030	0.3650
Nl	0.9060	0.3610
Nm	0.8920	0.3610
Nn	0.9080	0.3540
No	0.9060	0.3660
Np	0.9360	0.3780

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Chain	Atom inclusion	Q-score
Nq	0.9050	0.3600
Nr	0.8410	0.3710
Ns	0.9190	0.3790
Nt	0.9130	0.3690
Nu	0.8460	0.3730
Nv	0.8640	0.3550
Nw	0.8890	0.3520
Nx	0.8970	0.3580
O0	0.9340	0.3740
O1	0.9190	0.3930
O2	0.9020	0.3690
O3	0.8880	0.3730
O4	0.9130	0.3680
O5	0.8940	0.3700
O6	0.9050	0.3760
O7	0.8940	0.3680
O8	0.9140	0.3650
O9	0.9030	0.3680
OA	0.9280	0.3670
OB	0.8470	0.3530
OC	0.8460	0.3710
OD	0.9390	0.3670
OE	0.9270	0.3820
OF	0.8950	0.3620
OG	0.8850	0.3580
OH	0.8080	0.3580
OI	0.8910	0.3610
OJ	0.9160	0.3740
OK	0.9160	0.3620
OL	0.9220	0.3820
OM	0.9130	0.3830
ON	0.8990	0.3620
OO	0.9160	0.3730
OP	0.8920	0.3440
OQ	0.9280	0.3780
OR	0.9270	0.3780
OS	0.9130	0.3640
OT	0.8470	0.3470
OU	0.8460	0.3550
OV	0.8860	0.3620
OW	0.9220	0.3670
OX	0.9060	0.3740

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Chain	Atom inclusion	Q-score
OY	0.9110	0.3710
OZ	0.8570	0.3570
Oa	0.8460	0.3580
Ob	0.9220	0.3640
Oc	0.9170	0.3630
Od	0.9030	0.3680
Oe	0.9200	0.3860
Of	0.9000	0.3740
Og	0.9280	0.3770
Oh	0.9310	0.3810
Oi	0.8940	0.3650
Oj	0.9270	0.3870
Ok	0.9190	0.3710
Ol	0.8890	0.3660
Om	0.9190	0.3780
On	0.9060	0.3680
Oo	0.8860	0.3610
Op	0.9310	0.3830
Oq	0.8970	0.3770
Or	0.8630	0.3640
Os	0.9160	0.3720
Ot	0.8940	0.3700
Ou	0.8070	0.3610
Ov	0.8750	0.3670
Ow	0.9240	0.3630
Ox	0.9140	0.3590
P0	0.7810	0.3380
P1	0.7480	0.3550
P2	0.7930	0.3450
P3	0.7520	0.3360
P4	0.7790	0.3430
P5	0.7490	0.3420
P6	0.8010	0.3680
P7	0.7510	0.3520
P8	0.7860	0.3610
P9	0.8030	0.3460
PA	0.7880	0.3430
PB	0.6770	0.3520
PC	0.7070	0.3550
PD	0.8110	0.3750
PE	0.8040	0.3350
PF	0.7690	0.3340

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Chain	Atom inclusion	Q-score
PG	0.7060	0.3330
PH	0.6350	0.3370
PI	0.7410	0.3230
PJ	0.7830	0.3180
PK	0.7490	0.3090
PL	0.7380	0.3580
PM	0.7560	0.3530
PN	0.7860	0.3250
PO	0.7620	0.3390
PP	0.7510	0.3320
PQ	0.7490	0.3380
PR	0.7440	0.3260
PS	0.7220	0.3270
PT	0.7160	0.3480
PU	0.6400	0.3520
PV	0.7680	0.3550
PW	0.7560	0.3420
PX	0.7540	0.3220
PY	0.7520	0.3440
PZ	0.7430	0.3470
Pa	0.6870	0.3270
Pb	0.7410	0.3440
Pc	0.7380	0.3310
Pd	0.6940	0.3270
Pe	0.7120	0.3390
Pf	0.7430	0.3360
Pg	0.7320	0.3320
Ph	0.7760	0.3610
Pi	0.7170	0.3450
Pj	0.7410	0.3410
Pk	0.7560	0.3430
Pl	0.7560	0.3350
Pm	0.7810	0.3460
Pn	0.7730	0.3480
Po	0.7960	0.3580
Pp	0.7070	0.3430
Pq	0.6550	0.3420
Pr	0.6820	0.3460
Ps	0.7440	0.3470
Pt	0.6840	0.3400
Pu	0.6190	0.3420
Pv	0.6640	0.3390

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Chain	Atom inclusion	Q-score
Pw	0.7490	0.3630
Px	0.7480	0.3400
X0	0.8760	0.3620
X1	0.7700	0.3480
X2	0.8390	0.3380
X3	0.8560	0.3490
X4	0.8600	0.3500
X5	0.8720	0.3470
X6	0.8580	0.3610
X7	0.8070	0.3460
X8	0.8270	0.3550
X9	0.7870	0.3540
XA	0.7930	0.3470
XB	0.7560	0.2800
XC	0.8450	0.3010
XD	0.8520	0.2910
XE	0.7950	0.2930
XF	0.7400	0.2260
XG	0.7680	0.2330
XH	0.8470	0.2210
XI	0.7890	0.2850
XJ	0.6670	0.2610
XK	0.7790	0.2680
XL	0.7620	0.2530
XM	0.7280	0.2820
XN	0.8540	0.3150
XO	0.7460	0.2410
XP	0.7990	0.2330
XQ	0.7850	0.2340
XR	0.8010	0.2590
XS	0.8010	0.2810
XT	0.8600	0.2590
XU	0.7030	0.2270
XV	0.6160	0.2430
XW	0.7680	0.2220
XX	0.7740	0.2670
XY	0.6810	0.2370
XZ	0.6420	0.2530
Xa	0.8350	0.2540
Xb	0.7320	0.1970
Xc	0.7600	0.2330
Xd	0.6500	0.2520

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Chain	Atom inclusion	Q-score
Xe	0.6530	0.2410
Xf	0.7640	0.2370
Xg	0.7950	0.2790
Xh	0.7600	0.2270
Xi	0.8130	0.2680
Xj	0.7970	0.2590
Xk	0.8190	0.2630
Xl	0.7700	0.2260
Xm	0.8560	0.3170
Xn	0.7440	0.2550
Xo	0.7700	0.2310
Xp	0.8230	0.2660
Xq	0.8210	0.2630
Xr	0.7910	0.2890
Xs	0.8190	0.2690
Xt	0.8050	0.2390
Xu	0.8050	0.2650
Xv	0.7830	0.2600
Xw	0.6480	0.2140
Xx	0.7560	0.2490
Y0	0.8520	0.3470
Y1	0.8230	0.3290
Y2	0.8310	0.3390
Y3	0.8390	0.3400
Y4	0.8260	0.3240
Y5	0.8110	0.3390
Y6	0.8110	0.3280
Y7	0.8290	0.3490
Y8	0.8490	0.3610
Y9	0.8550	0.3450
YA	0.8460	0.3330
YB	0.8650	0.3430
YC	0.8940	0.3500
YD	0.8710	0.3480
YE	0.8530	0.3370
YF	0.7960	0.3090
YG	0.8600	0.3050
YH	0.8360	0.3180
YI	0.7780	0.3170
YJ	0.8270	0.3350
YK	0.8510	0.3200
YL	0.8070	0.3210

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Chain	Atom inclusion	Q-score
YM	0.8190	0.3060
YN	0.8300	0.3220
YO	0.8290	0.3200
YP	0.8500	0.3160
YQ	0.8630	0.3260
YR	0.8690	0.3290
YS	0.8560	0.3160
YT	0.8550	0.3230
YU	0.8600	0.3010
YV	0.8460	0.3260
YW	0.8200	0.3030
YX	0.7820	0.3140
YY	0.7510	0.3190
YZ	0.7530	0.3120
Ya	0.8640	0.3150
Yb	0.8110	0.3150
Yc	0.7870	0.3130
Yd	0.8280	0.3210
Ye	0.8140	0.3220
Yf	0.8430	0.3250
Yg	0.8370	0.3140
Yh	0.8280	0.3260
Yi	0.7810	0.3030
Yj	0.8570	0.3270
Yk	0.8580	0.3270
Yl	0.8340	0.3170
Ym	0.8130	0.3240
Yn	0.8280	0.3230
Yo	0.8250	0.3180
Yp	0.8590	0.3370
Yq	0.8280	0.3180
Yr	0.8430	0.3190
Ys	0.8530	0.3400
Yt	0.8400	0.3180
Yu	0.8290	0.3210
Yv	0.8030	0.3260
Yw	0.8480	0.3270
Yx	0.8530	0.3270