Full wwPDB EM Validation Report

Apr 29, 2025 – 07:00 pm BST

PDB ID	:	9GDY / pdb_00009gdy
EMDB ID	:	EMD-51280
Title	:	SARS-CoV-2 Spike protein Beta Variant at 37C structural flexibility / heterogeneity analyses
Authors	:	Herreros, D.; Mata, C.P.; Noddings, C.; Irene, D.; Agard, D.A.; Tsai, M.-D.; Sorzano, C.O.S.; Carazo, J.M.
Deposited on	:	2024-08-06
Resolution	:	2.80 Å(reported)
Based on initial models	:	7VX1, 7WEV

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 (i) 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 (i)) were used in the production of this report:

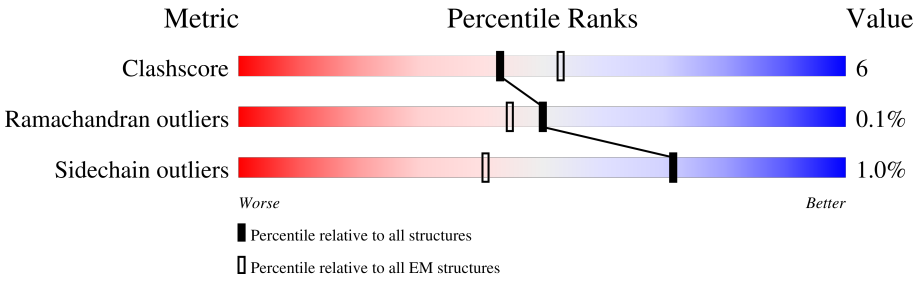
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

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 2.80 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)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	1-A	1230	12% 72% 16% · 12%
1	1-B	1230	6% 72% 15% 12%
1	1-C	1230	7% 72% 15% 12%
1	10-A	1230	72% 16% 12%
1	10-B	1230	75% 13% 12%
1	10-C	1230	74% 14% 12%
1	11-A	1230	73% 14% 12%
1	11-B	1230	75% 13% 12%

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Mol	Chain	Length	Quality of chain
1	11-C	1230	72% 15% 12%
1	12-A	1230	73% 15% 12%
1	12-B	1230	72% 16% 12%
1	12-C	1230	73% 15% 12%
1	13-A	1230	72% 15% 12%
1	13-B	1230	73% 15% 12%
1	13-C	1230	73% 15% 12%
1	14-A	1230	73% 15% 12%
1	14-B	1230	75% 13% 12%
1	14-C	1230	71% 17% 12%
1	15-A	1230	73% 15% 12%
1	15-B	1230	73% 15% 12%
1	15-C	1230	72% 16% 12%
1	16-A	1230	72% 16% 12%
1	16-B	1230	74% 14% 12%
1	16-C	1230	73% 15% 12%
1	17-A	1230	72% 16% 12%
1	17-B	1230	73% 15% 12%
1	17-C	1230	72% 16% 12%
1	18-A	1230	74% 14% 12%
1	18-B	1230	75% 13% 12%
1	18-C	1230	73% 14% 12%
1	19-A	1230	73% 15% 12%
1	19-B	1230	74% 14% 12%
1	19-C	1230	72% 16% 12%

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Mol	Chain	Length	Quality of chain
1	2-A	1230	74% 14% 12%
1	2-B	1230	72% 16% 12%
1	2-C	1230	73% 14% 12%
1	20-A	1230	76% 12% 12%
1	20-B	1230	73% 14% 12%
1	20-C	1230	75% 13% 12%
1	3-A	1230	73% 15% 12%
1	3-B	1230	75% 13% 12%
1	3-C	1230	73% 16% 12%
1	4-A	1230	70% 18% 12%
1	4-B	1230	70% 18% 12%
1	4-C	1230	72% 16% 12%
1	5-A	1230	70% 18% 12%
1	5-B	1230	74% 14% 12%
1	5-C	1230	72% 16% 12%
1	6-A	1230	72% 16% 12%
1	6-B	1230	75% 13% 12%
1	6-C	1230	73% 15% 12%
1	7-A	1230	72% 16% 12%
1	7-B	1230	73% 15% 12%
1	7-C	1230	73% 15% 12%
1	8-A	1230	74% 14% 12%
1	8-B	1230	72% 16% 12%
1	8-C	1230	72% 16% 12%
1	9-A	1230	72% 15% 12%

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Mol	Chain	Length	Quality of chain
1	9-B	1230	
1	9-C	1230	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 509160 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 Spike glycoprotein,Fibritin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1-A	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	2-A	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	3-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	4-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	5-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	6-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	7-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	8-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	9-A	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	10-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	11-A	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	12-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	13-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	14-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	15-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	16-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	17-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	18-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	19-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	20-A	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	1-B	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	2-B	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	3-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	4-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	5-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	6-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	7-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	8-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	9-B	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	10-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	11-B	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	12-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	13-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	14-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	15-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	16-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	17-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	18-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	19-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	20-B	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	1-C	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	2-C	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	3-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	4-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	5-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	6-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	7-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	8-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	9-C	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	10-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	11-C	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		
1	12-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	13-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	14-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	15-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	16-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	17-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	18-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		
1	19-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	20-C	1085	Total	C	N	O	S	0	0
			8494	5425	1416	1615	38		

There are 87 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	18	PHE	LEU	variant	UNP P0DTC2
A	80	ALA	ASP	variant	UNP P0DTC2
A	215	GLY	ASP	variant	UNP P0DTC2
A	?	-	LEU	deletion	UNP P0DTC2
A	?	-	ALA	deletion	UNP P0DTC2
A	?	-	LEU	deletion	UNP P0DTC2
A	246	ILE	ARG	conflict	UNP P0DTC2
A	417	ASN	LYS	variant	UNP P0DTC2
A	484	LYS	GLU	variant	UNP P0DTC2
A	501	TYR	ASN	variant	UNP P0DTC2
A	614	GLY	ASP	variant	UNP P0DTC2
A	682	GLY	ARG	engineered mutation	UNP P0DTC2
A	683	SER	ARG	engineered mutation	UNP P0DTC2
A	685	SER	ARG	engineered mutation	UNP P0DTC2
A	701	VAL	ALA	variant	UNP P0DTC2
A	986	PRO	LYS	engineered mutation	UNP P0DTC2
A	987	PRO	VAL	engineered mutation	UNP P0DTC2
A	1209	GLY	-	linker	UNP P0DTC2
A	1210	SER	-	linker	UNP P0DTC2
A	1232	LEU	PHE	engineered mutation	UNP P10104
A	1238	GLY	-	expression tag	UNP P10104
A	1239	ARG	-	expression tag	UNP P10104
A	1240	SER	-	expression tag	UNP P10104
A	1241	LEU	-	expression tag	UNP P10104
A	1242	GLU	-	expression tag	UNP P10104
A	1243	VAL	-	expression tag	UNP P10104
A	1244	LEU	-	expression tag	UNP P10104
A	1245	PHE	-	expression tag	UNP P10104
A	1246	GLN	-	expression tag	UNP P10104
B	18	PHE	LEU	variant	UNP P0DTC2
B	80	ALA	ASP	variant	UNP P0DTC2
B	215	GLY	ASP	variant	UNP P0DTC2
B	?	-	LEU	deletion	UNP P0DTC2
B	?	-	ALA	deletion	UNP P0DTC2
B	?	-	LEU	deletion	UNP P0DTC2
B	246	ILE	ARG	conflict	UNP P0DTC2

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Chain	Residue	Modelled	Actual	Comment	Reference
B	417	ASN	LYS	variant	UNP P0DTC2
B	484	LYS	GLU	variant	UNP P0DTC2
B	501	TYR	ASN	variant	UNP P0DTC2
B	614	GLY	ASP	variant	UNP P0DTC2
B	682	GLY	ARG	engineered mutation	UNP P0DTC2
B	683	SER	ARG	engineered mutation	UNP P0DTC2
B	685	SER	ARG	engineered mutation	UNP P0DTC2
B	701	VAL	ALA	variant	UNP P0DTC2
B	986	PRO	LYS	engineered mutation	UNP P0DTC2
B	987	PRO	VAL	engineered mutation	UNP P0DTC2
B	1209	GLY	-	linker	UNP P0DTC2
B	1210	SER	-	linker	UNP P0DTC2
B	1232	LEU	PHE	engineered mutation	UNP P10104
B	1238	GLY	-	expression tag	UNP P10104
B	1239	ARG	-	expression tag	UNP P10104
B	1240	SER	-	expression tag	UNP P10104
B	1241	LEU	-	expression tag	UNP P10104
B	1242	GLU	-	expression tag	UNP P10104
B	1243	VAL	-	expression tag	UNP P10104
B	1244	LEU	-	expression tag	UNP P10104
B	1245	PHE	-	expression tag	UNP P10104
B	1246	GLN	-	expression tag	UNP P10104
C	18	PHE	LEU	variant	UNP P0DTC2
C	80	ALA	ASP	variant	UNP P0DTC2
C	215	GLY	ASP	variant	UNP P0DTC2
C	?	-	LEU	deletion	UNP P0DTC2
C	?	-	ALA	deletion	UNP P0DTC2
C	?	-	LEU	deletion	UNP P0DTC2
C	246	ILE	ARG	conflict	UNP P0DTC2
C	417	ASN	LYS	variant	UNP P0DTC2
C	484	LYS	GLU	variant	UNP P0DTC2
C	501	TYR	ASN	variant	UNP P0DTC2
C	614	GLY	ASP	variant	UNP P0DTC2
C	682	GLY	ARG	engineered mutation	UNP P0DTC2
C	683	SER	ARG	engineered mutation	UNP P0DTC2
C	685	SER	ARG	engineered mutation	UNP P0DTC2
C	701	VAL	ALA	variant	UNP P0DTC2
C	986	PRO	LYS	engineered mutation	UNP P0DTC2
C	987	PRO	VAL	engineered mutation	UNP P0DTC2
C	1209	GLY	-	linker	UNP P0DTC2
C	1210	SER	-	linker	UNP P0DTC2
C	1232	LEU	PHE	engineered mutation	UNP P10104

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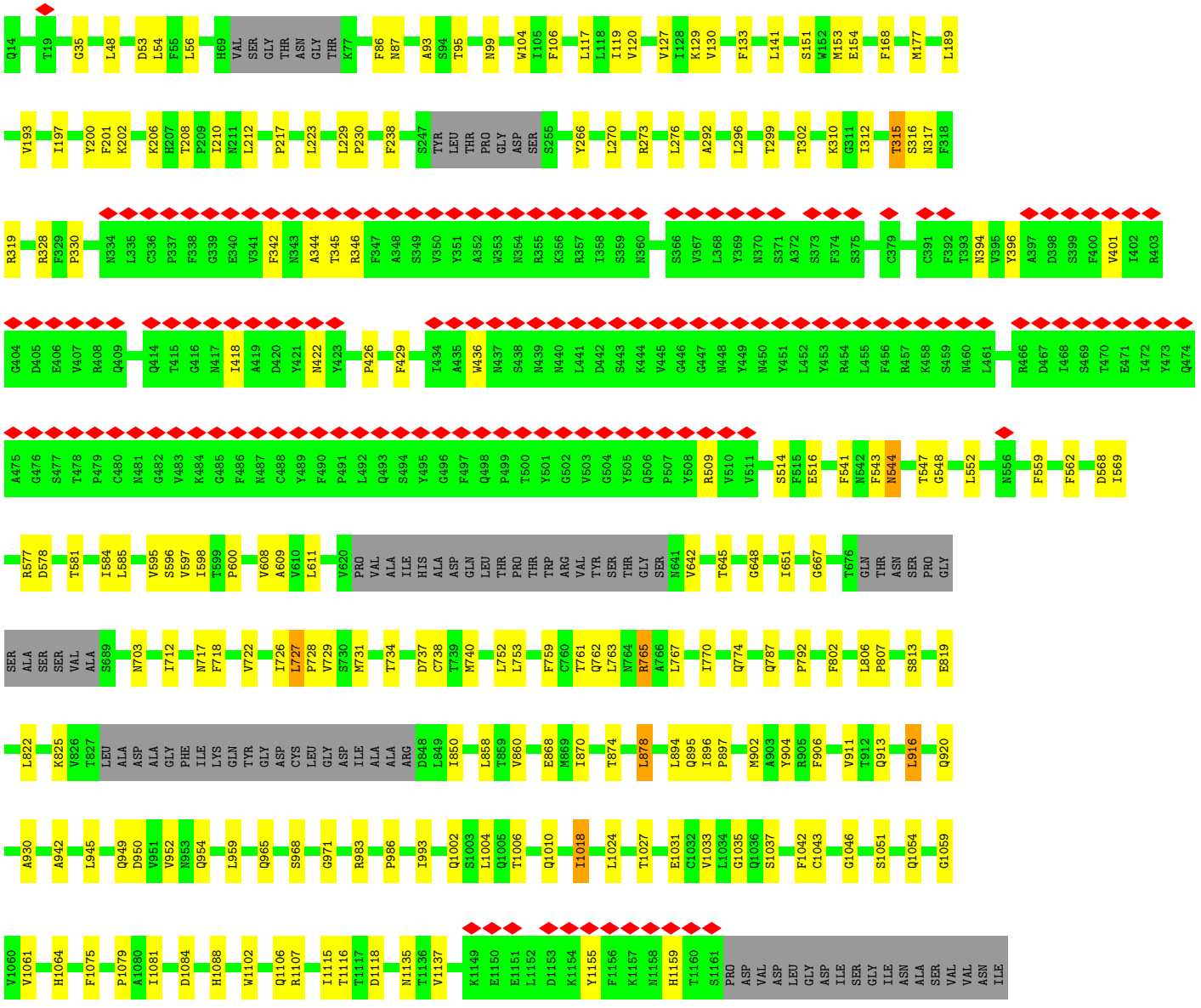
Chain	Residue	Modelled	Actual	Comment	Reference
C	1238	GLY	-	expression tag	UNP P10104
C	1239	ARG	-	expression tag	UNP P10104
C	1240	SER	-	expression tag	UNP P10104
C	1241	LEU	-	expression tag	UNP P10104
C	1242	GLU	-	expression tag	UNP P10104
C	1243	VAL	-	expression tag	UNP P10104
C	1244	LEU	-	expression tag	UNP P10104
C	1245	PHE	-	expression tag	UNP P10104
C	1246	GLN	-	expression tag	UNP P10104

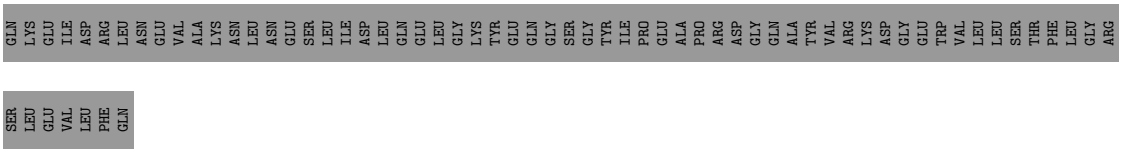
3 Residue-property plots (i)

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: Spike glycoprotein,Fibritin

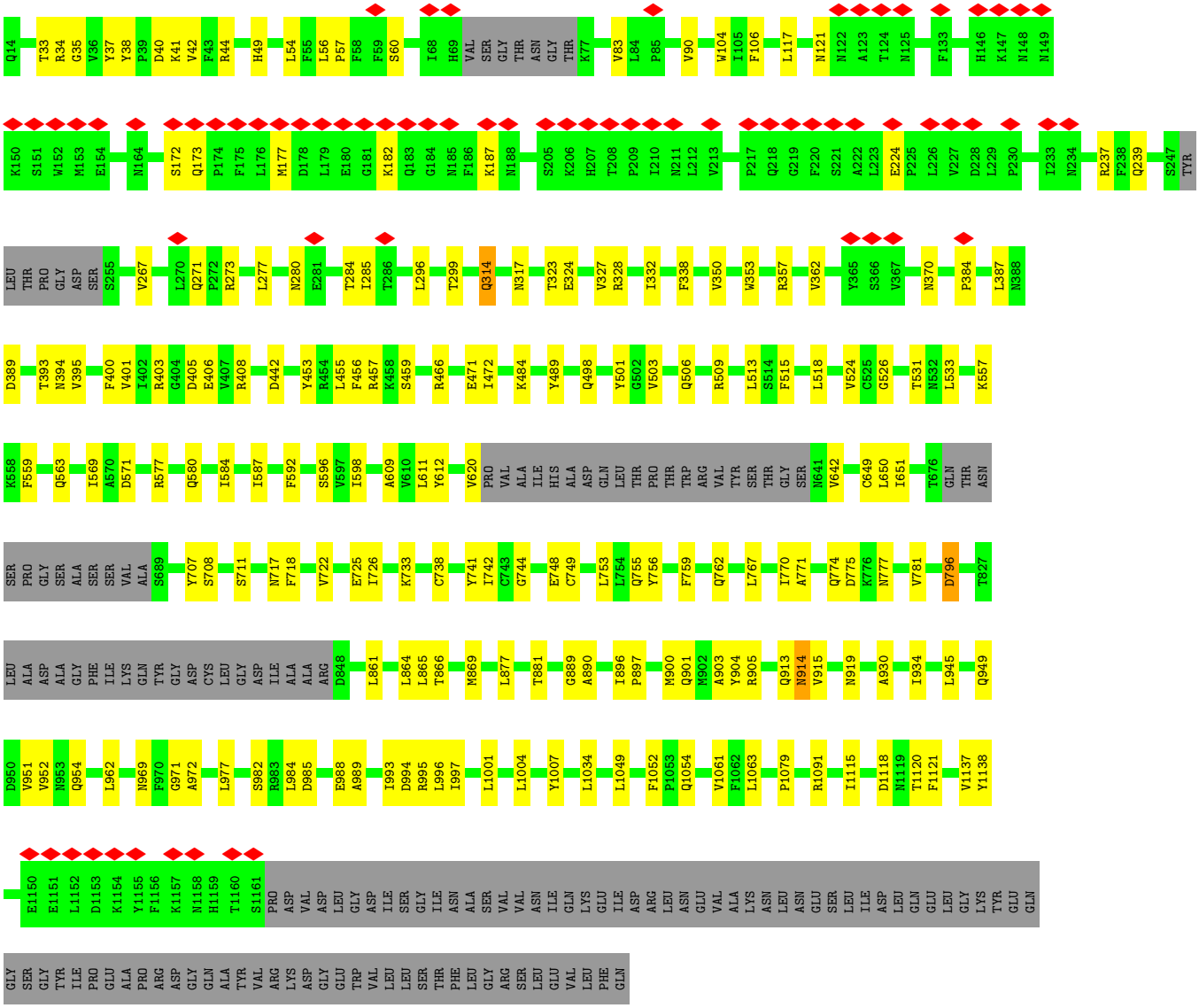
Chain 1-A:





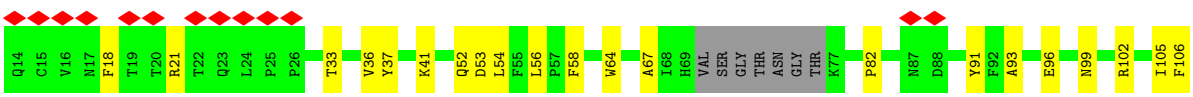
• Molecule 1: Spike glycoprotein,Fibritin

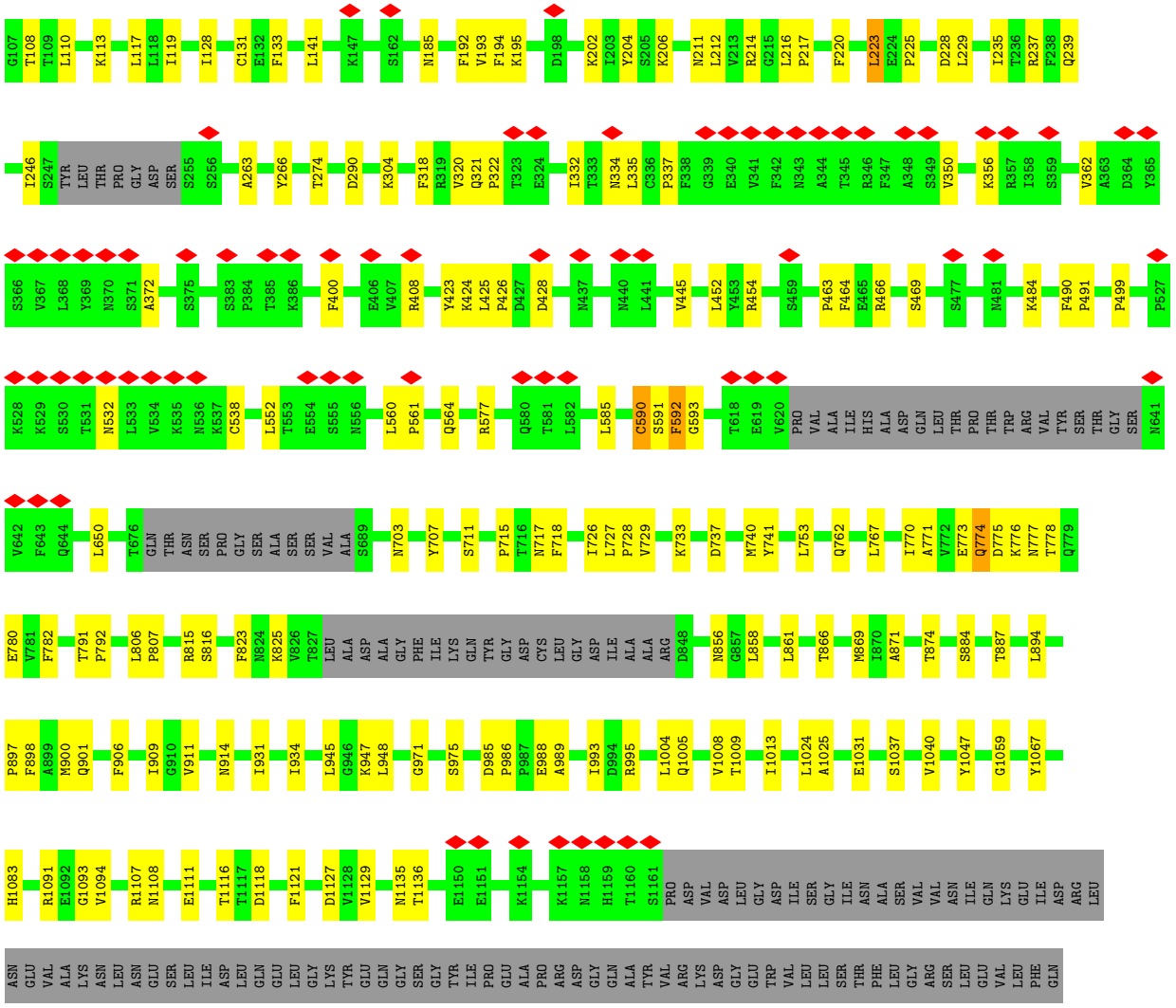
Chain 1-B:



• Molecule 1: Spike glycoprotein,Fibritin

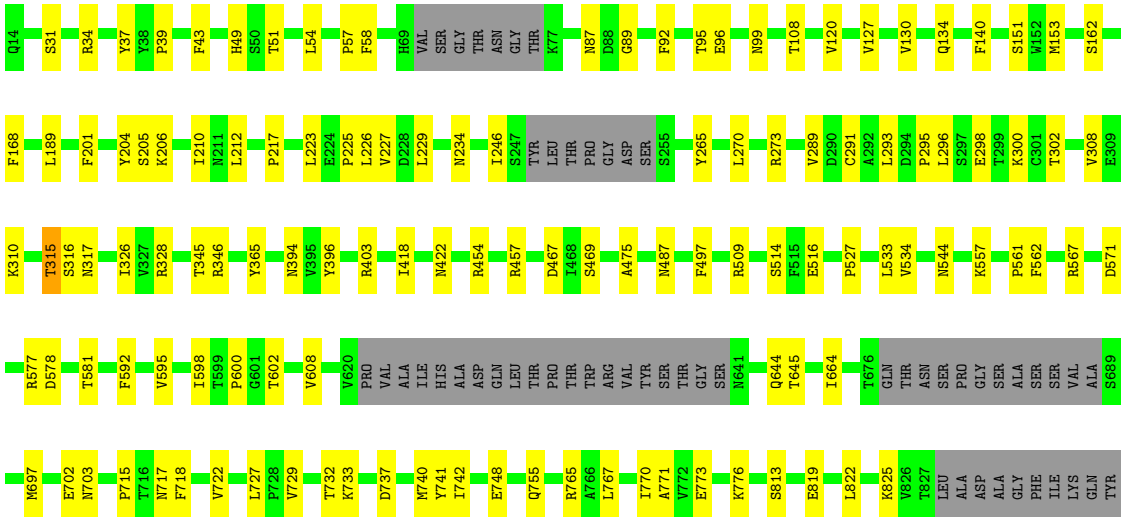
Chain 1-C:

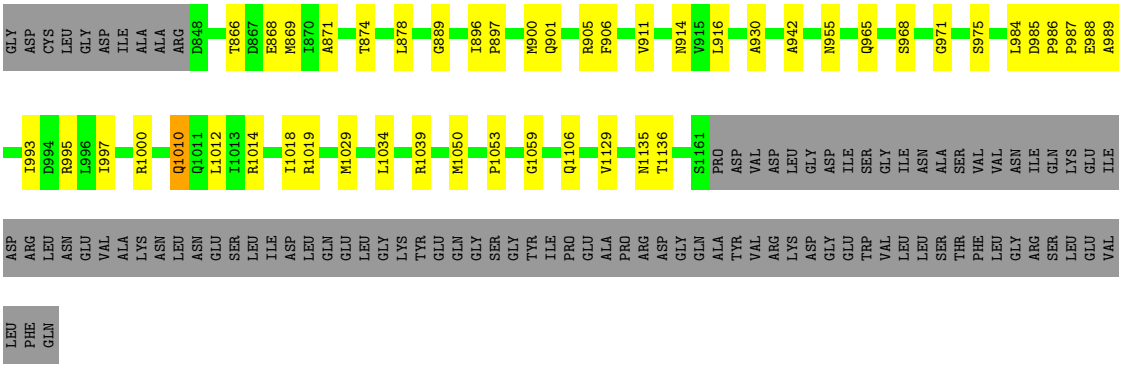




• Molecule 1: Spike glycoprotein,Fibritin

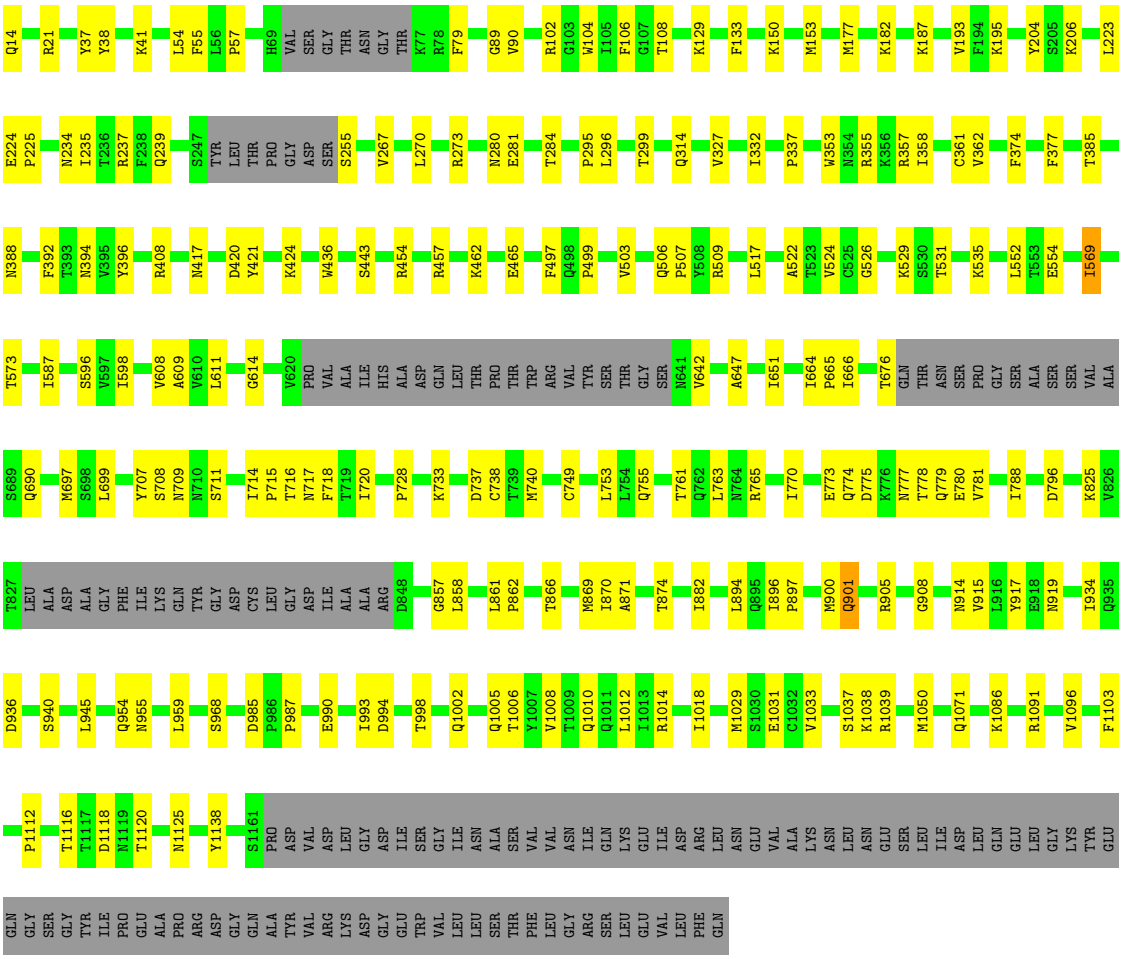
Chain 2-A:





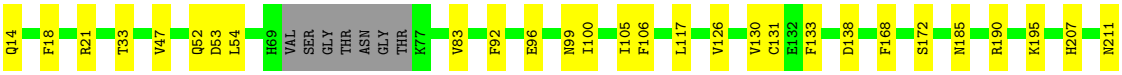
• Molecule 1: Spike glycoprotein,Fibritin

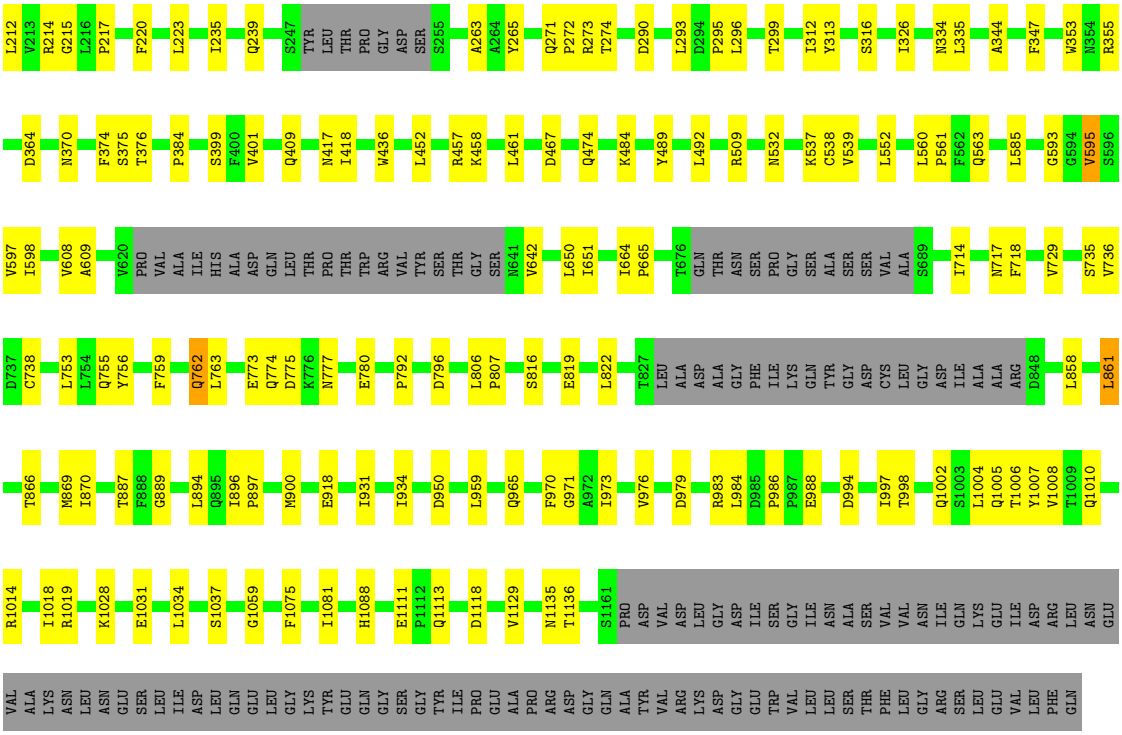
Chain 2-B:



• Molecule 1: Spike glycoprotein,Fibritin

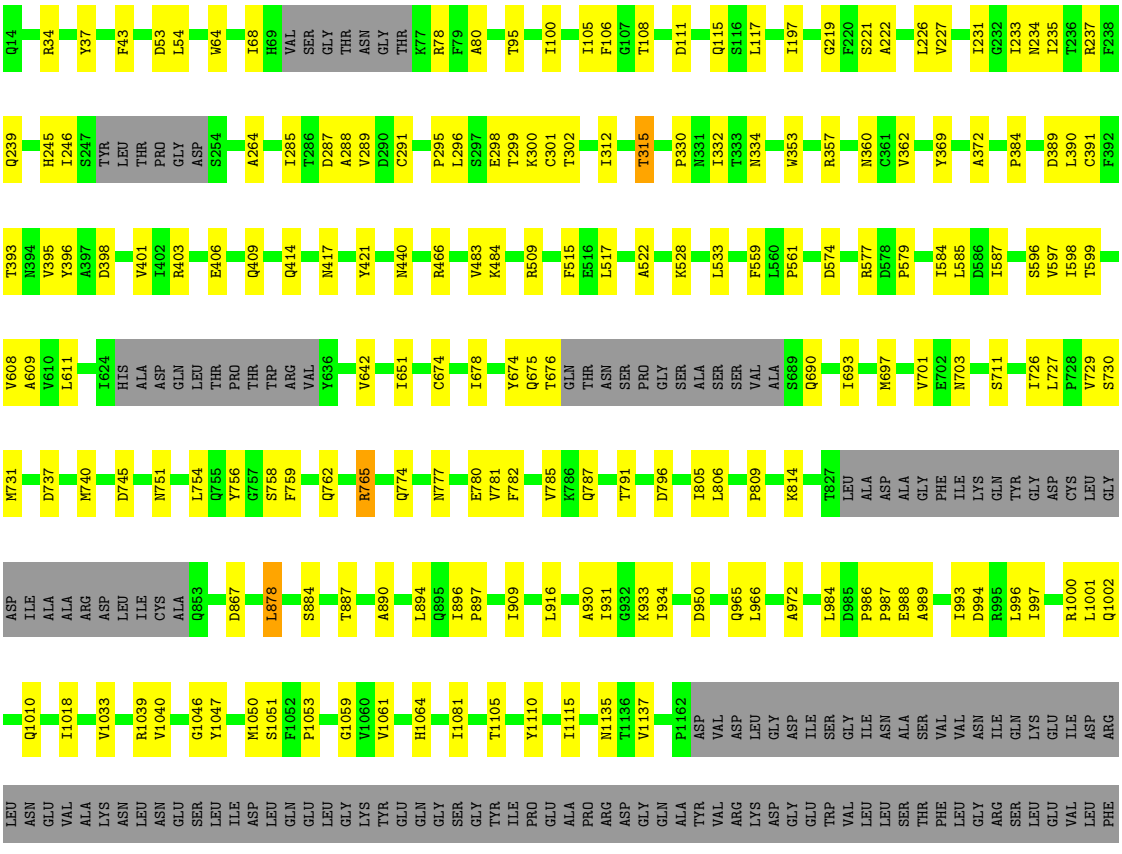
Chain 2-C:





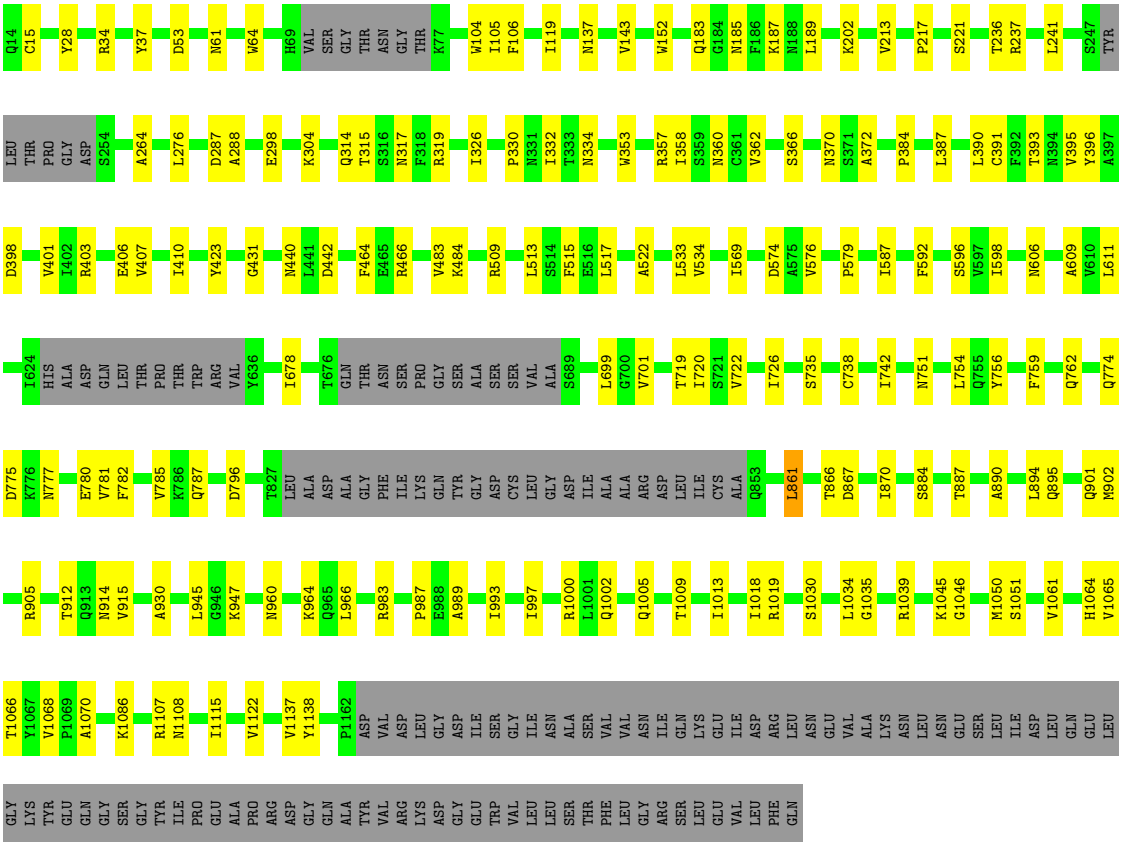
• Molecule 1: Spike glycoprotein,Fibritin

Chain 3-A:



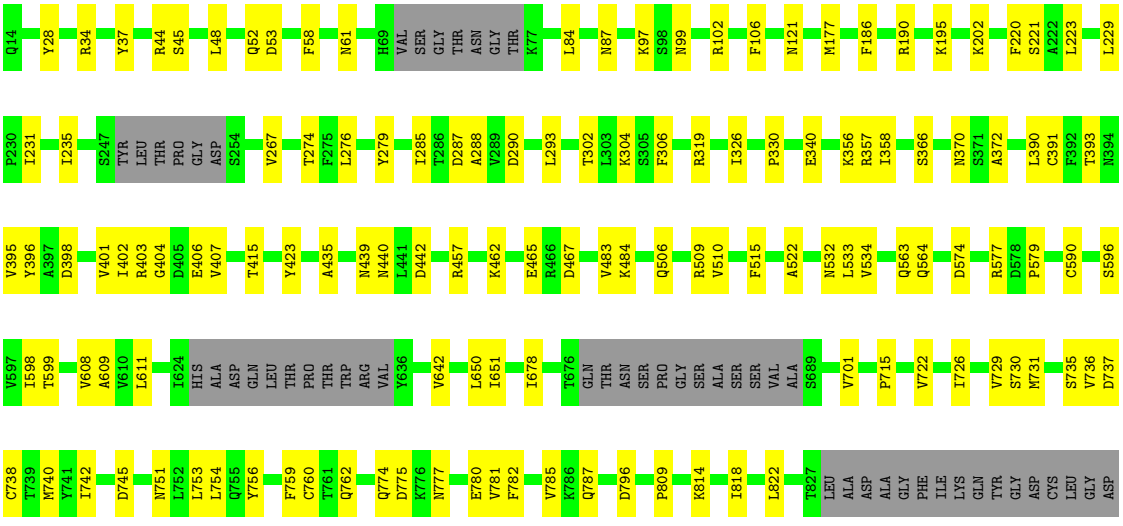
• Molecule 1: Spike glycoprotein,Fibritin

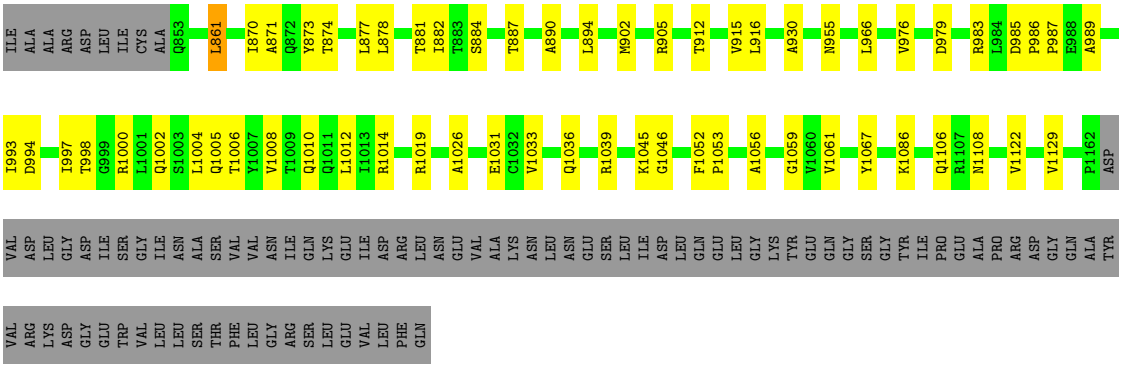
Chain 3-B:



• Molecule 1: Spike glycoprotein,Fibritin

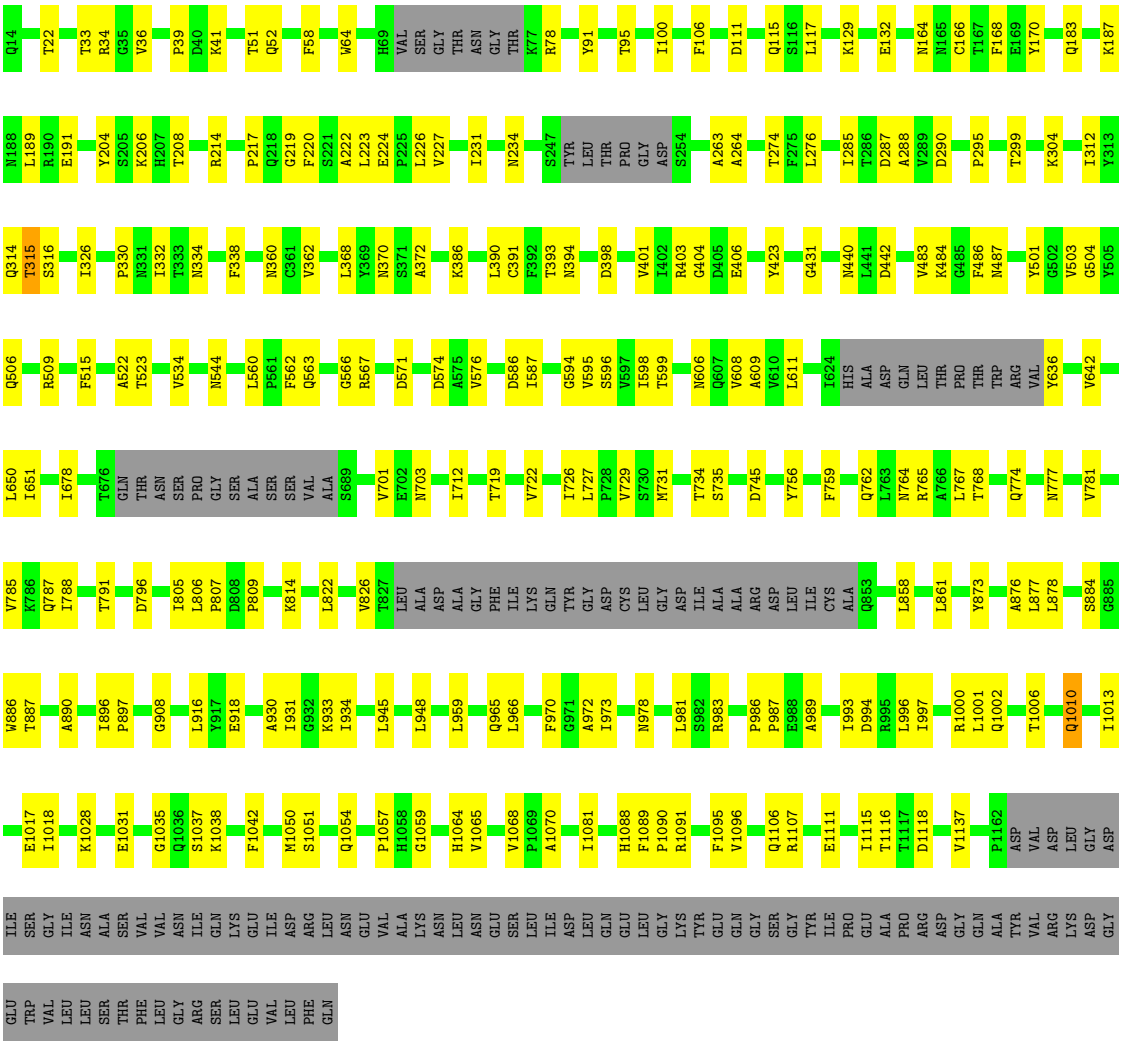
Chain 3-C:





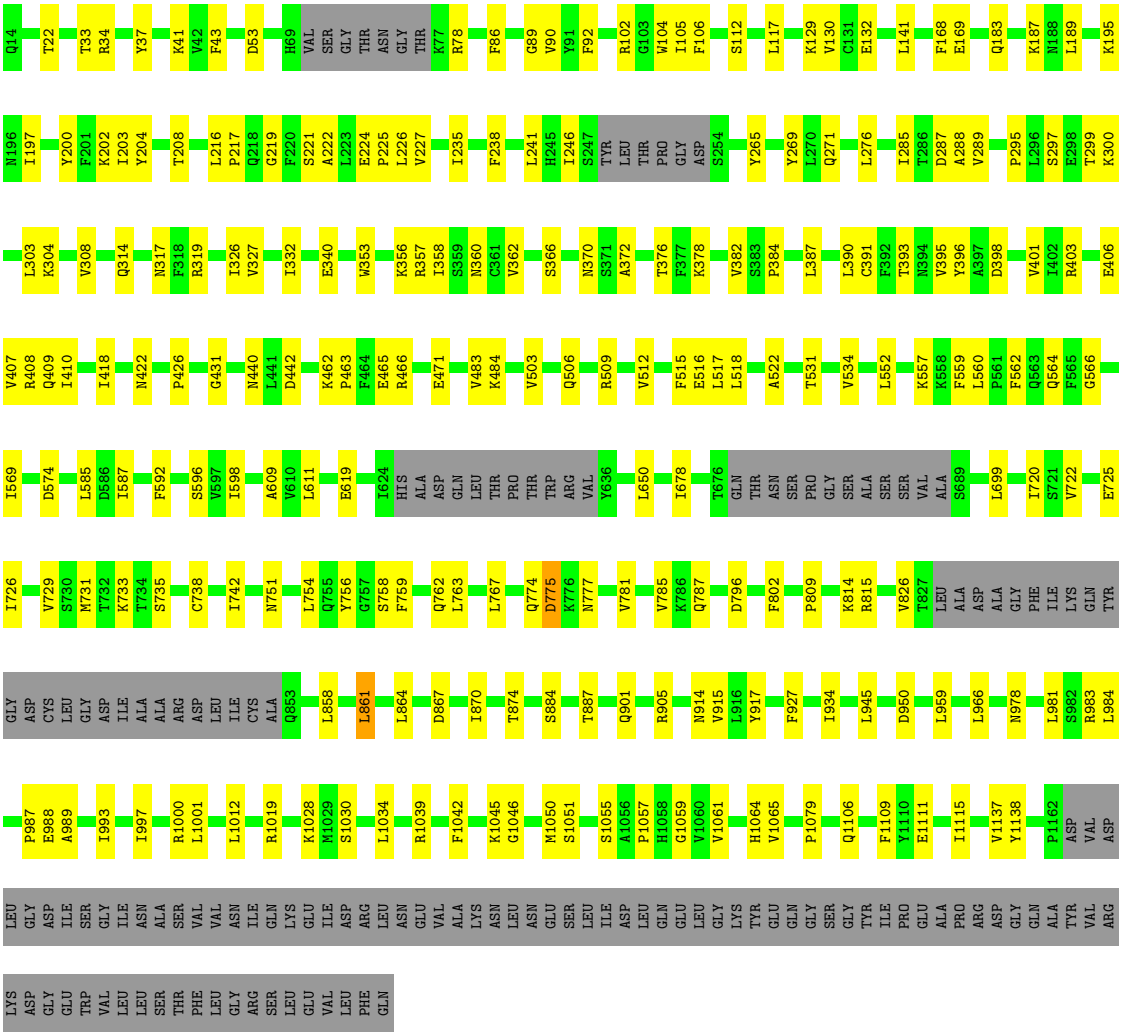
• Molecule 1: Spike glycoprotein,Fibritin

Chain 4-A:



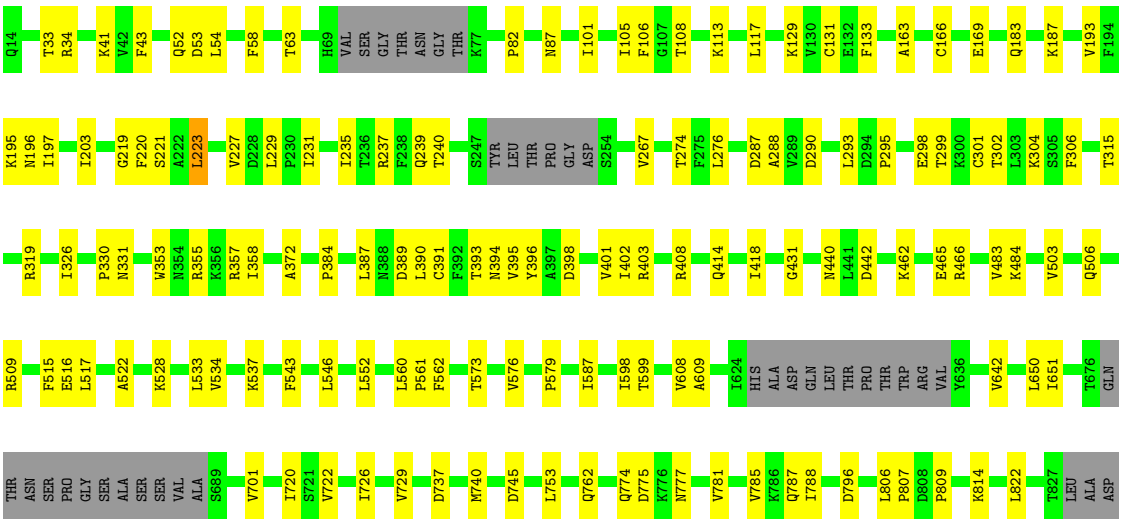
• Molecule 1: Spike glycoprotein,Fibritin

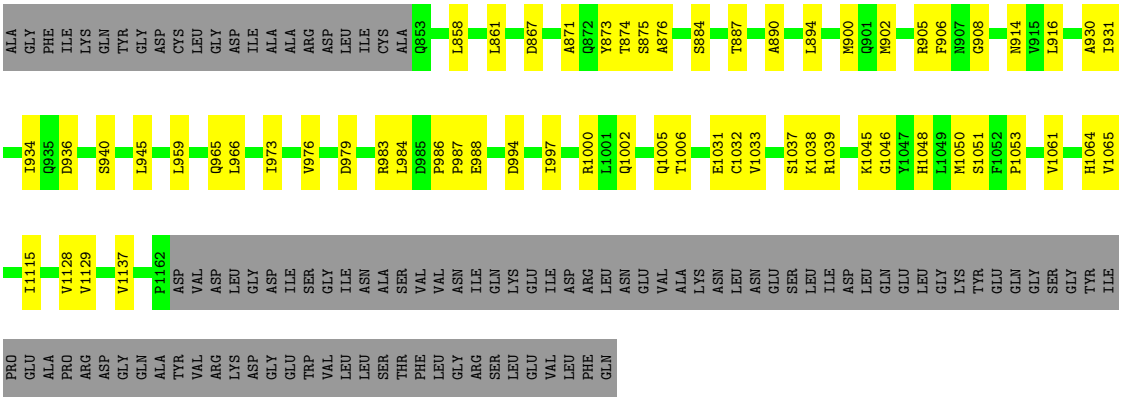
Chain 4-B:



• Molecule 1: Spike glycoprotein,Fibritin

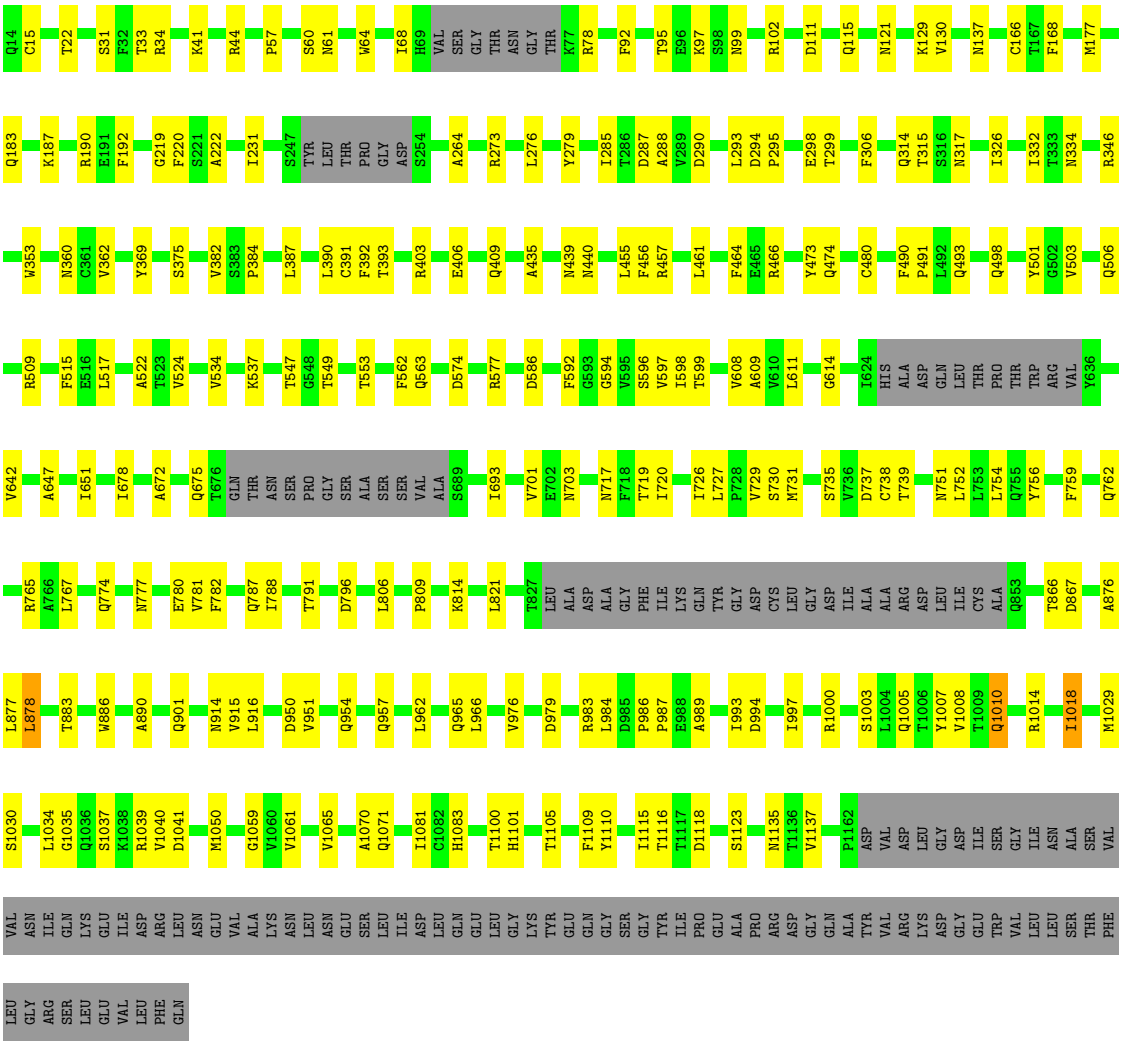
Chain 4-C:





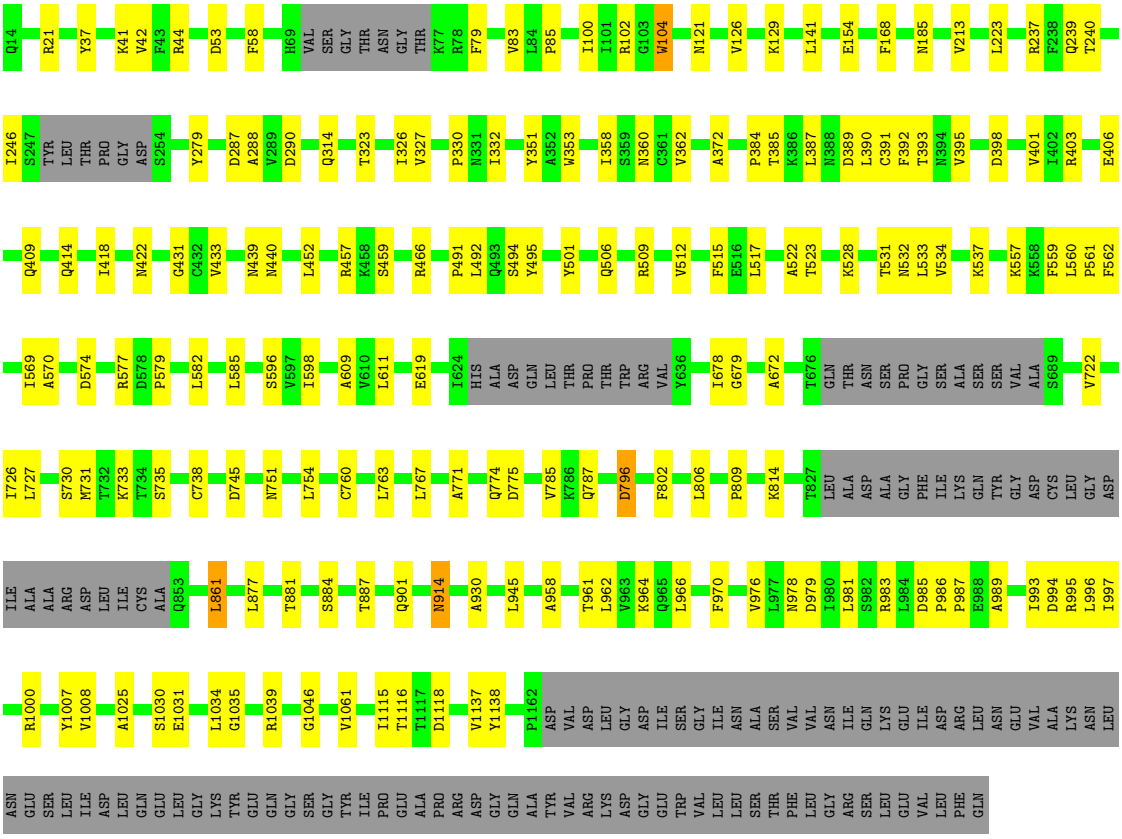
• Molecule 1: Spike glycoprotein,Fibritin

Chain 5-A:



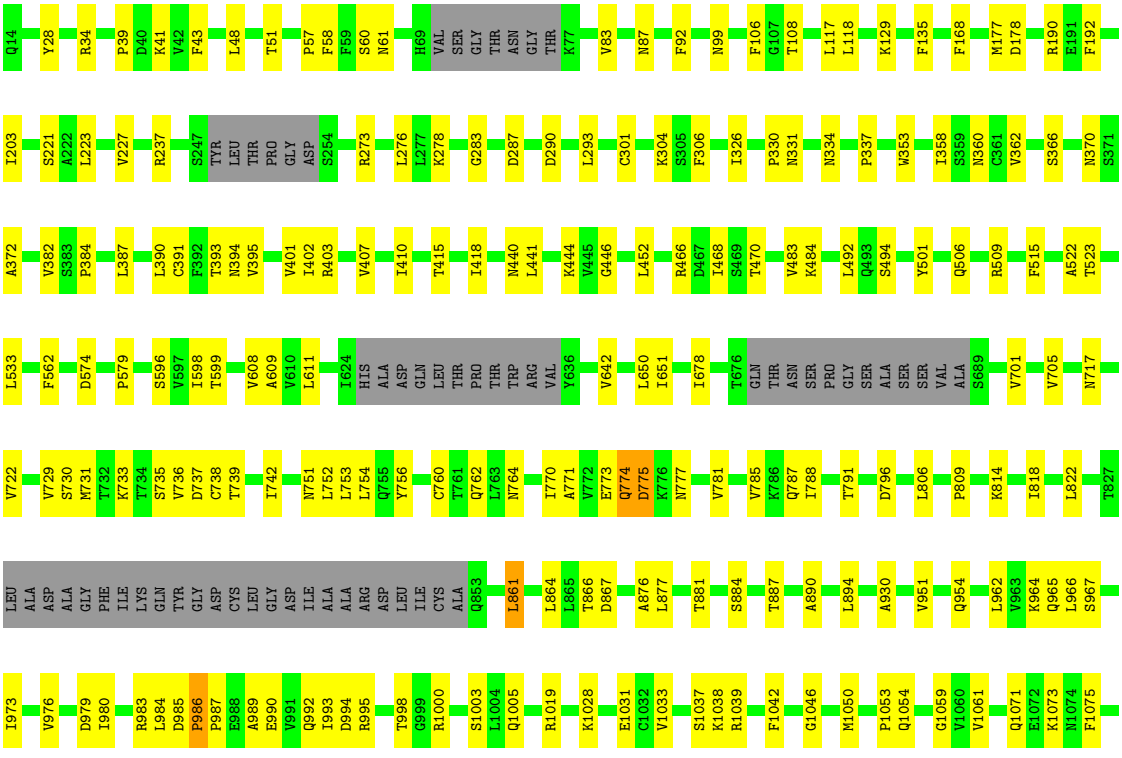
• Molecule 1: Spike glycoprotein,Fibritin

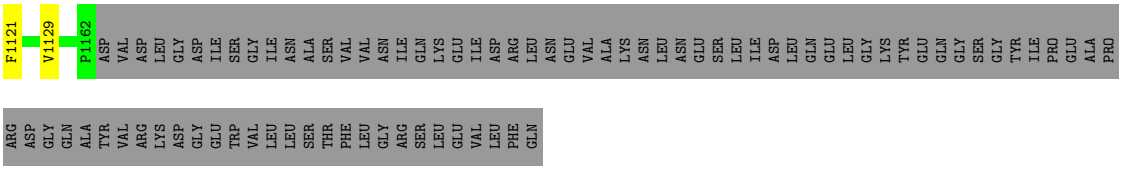
Chain 5-B:



• Molecule 1: Spike glycoprotein,Fibritin

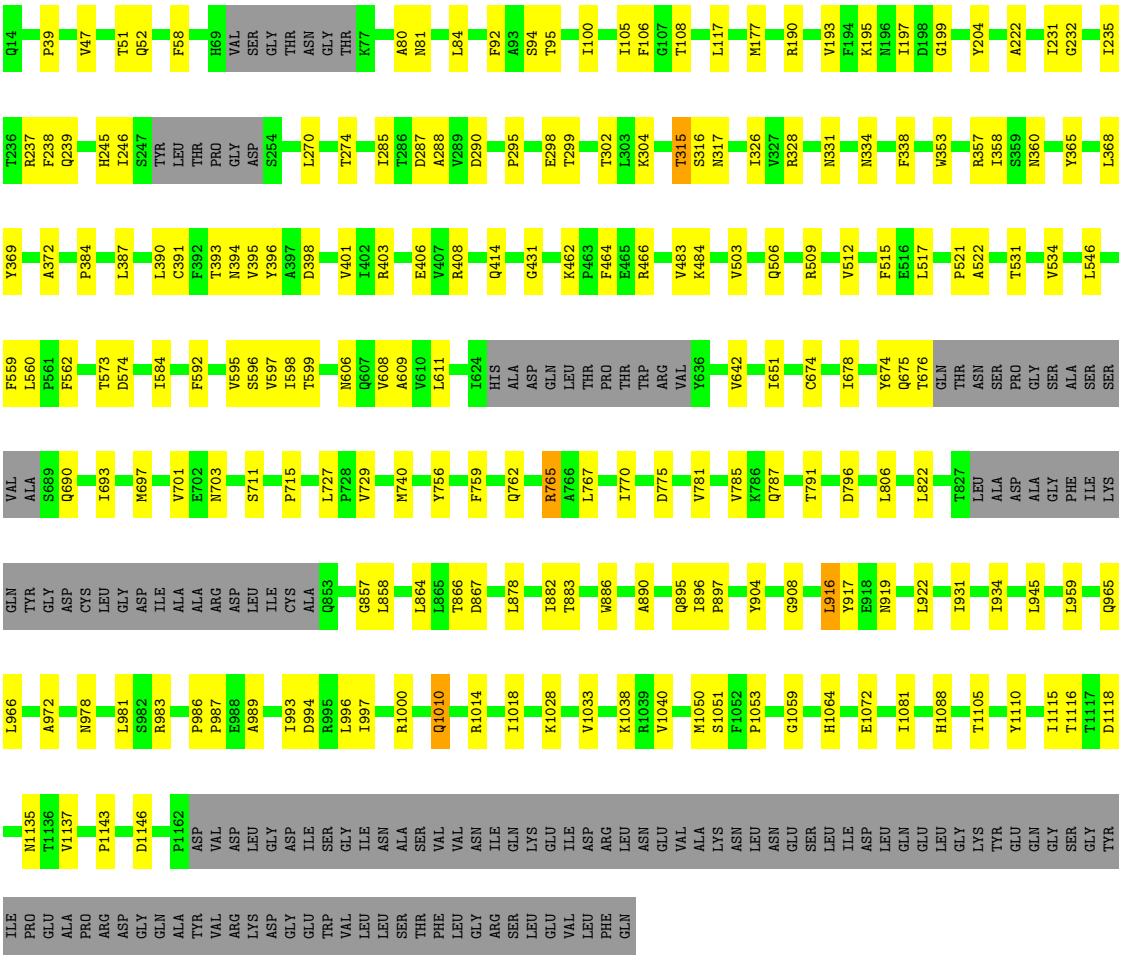
Chain 5-C:





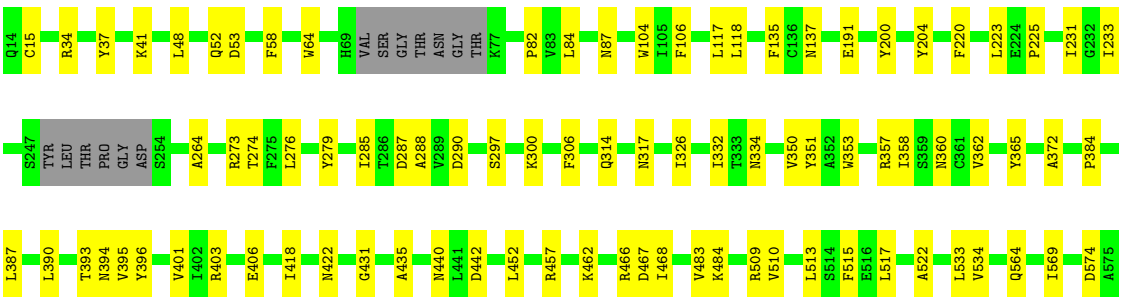
• Molecule 1: Spike glycoprotein,Fibritin

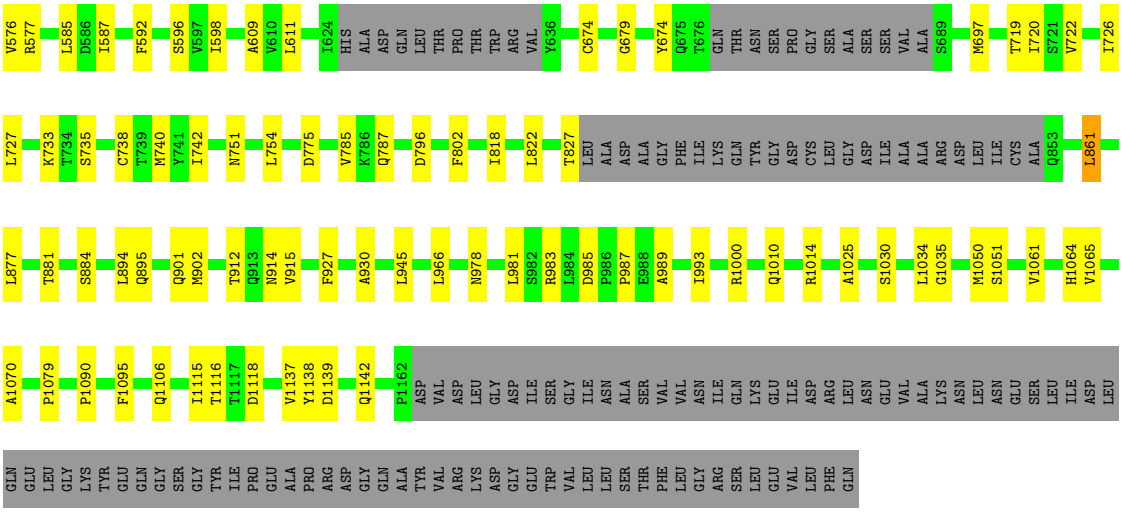
Chain 6-A:



• Molecule 1: Spike glycoprotein,Fibritin

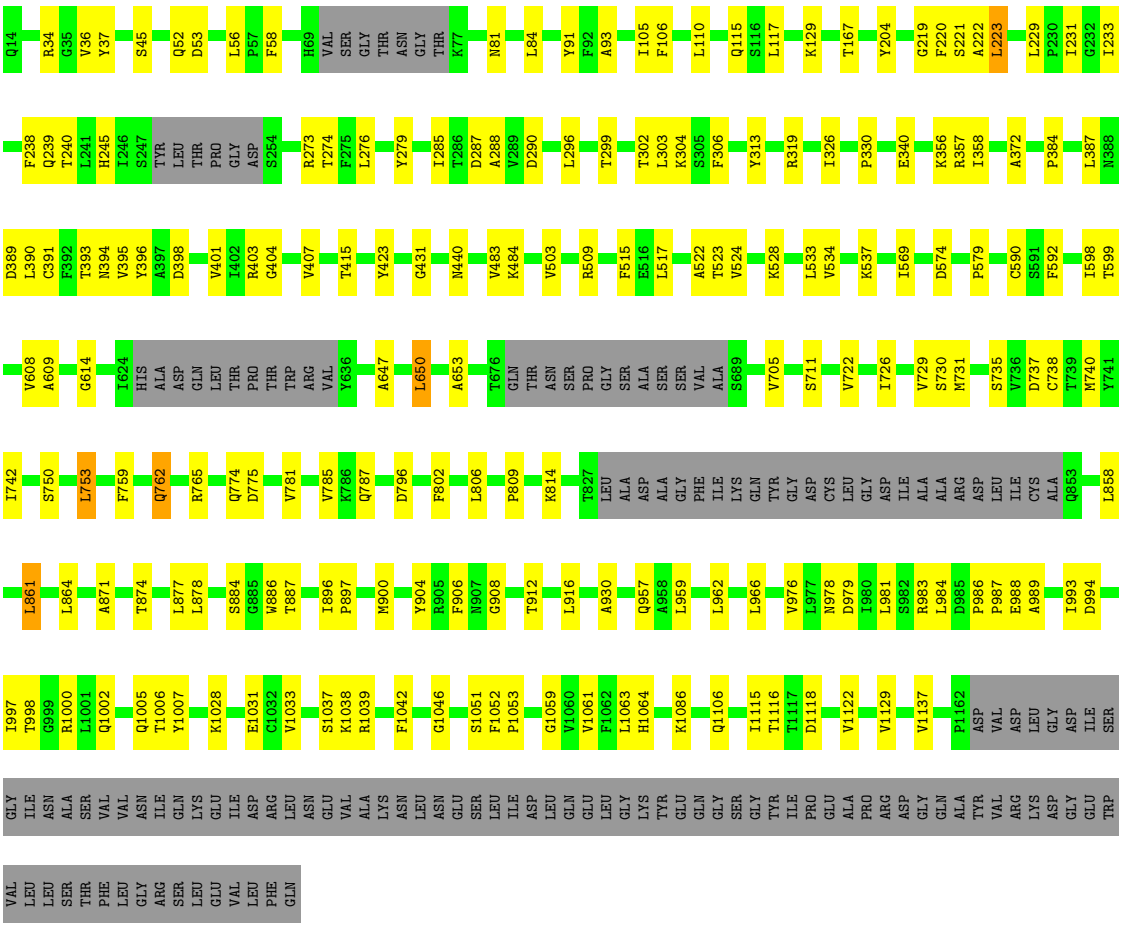
Chain 6-B:





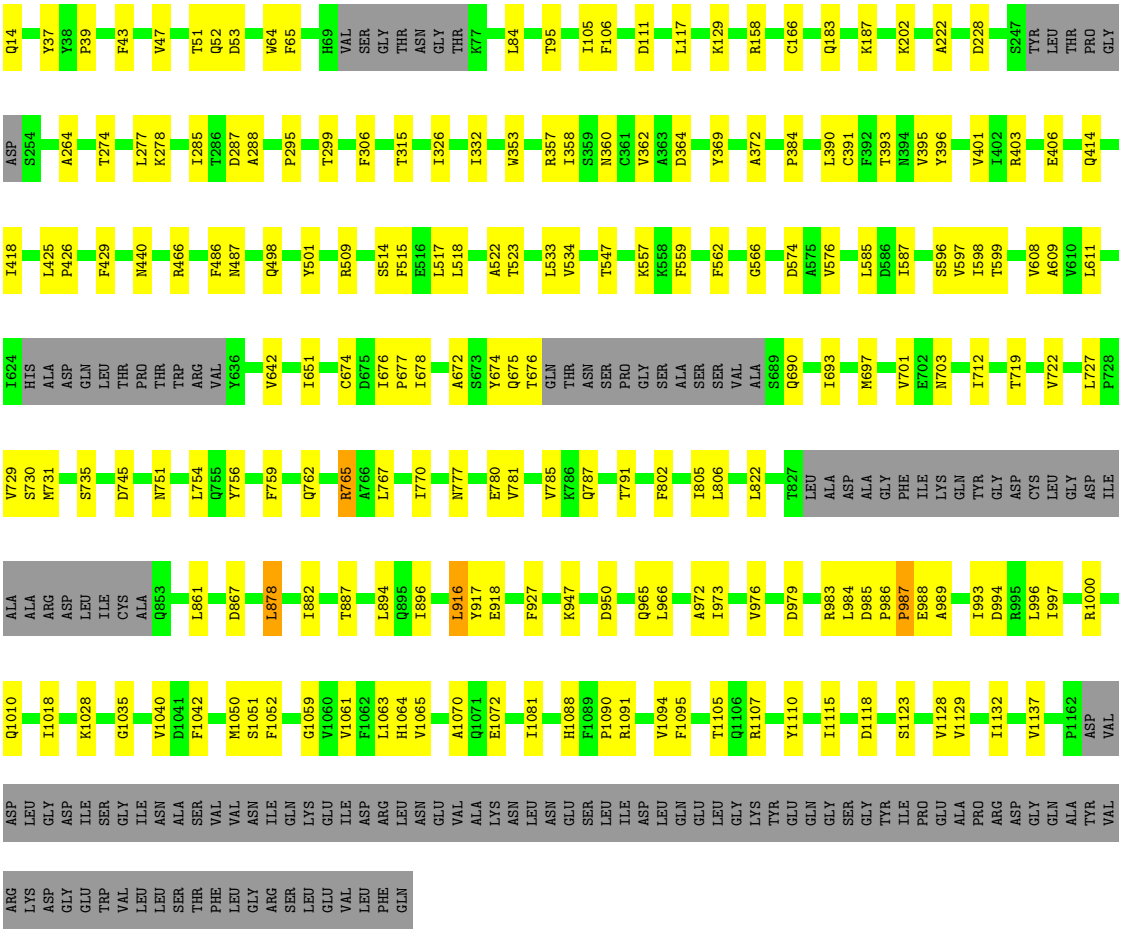
• Molecule 1: Spike glycoprotein,Fibritin

Chain 6-C:



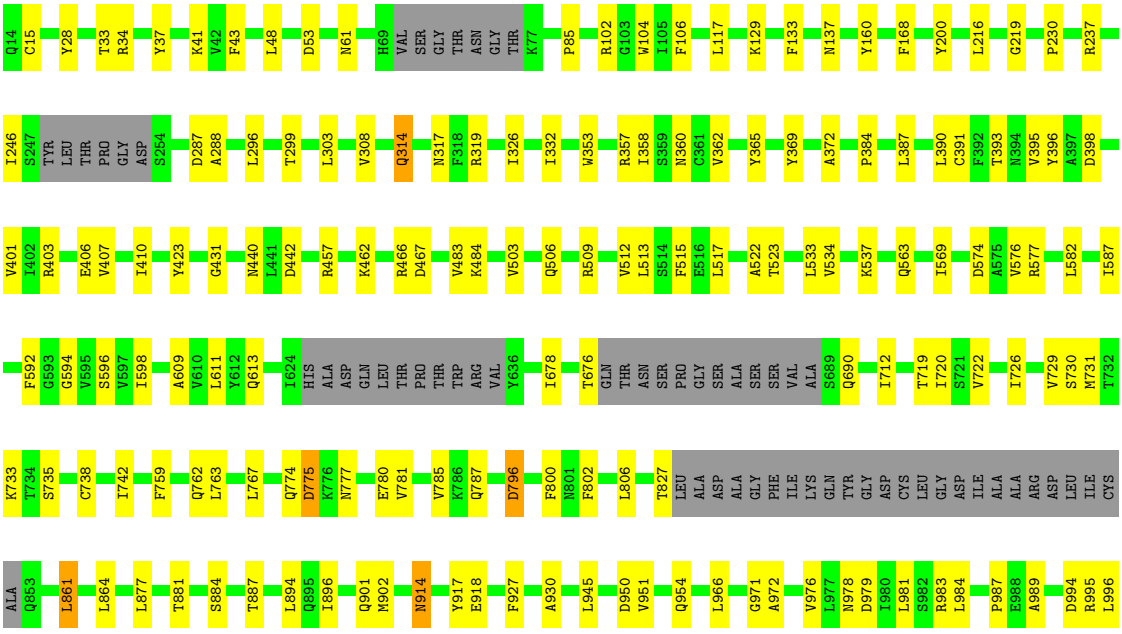
• Molecule 1: Spike glycoprotein,Fibritin

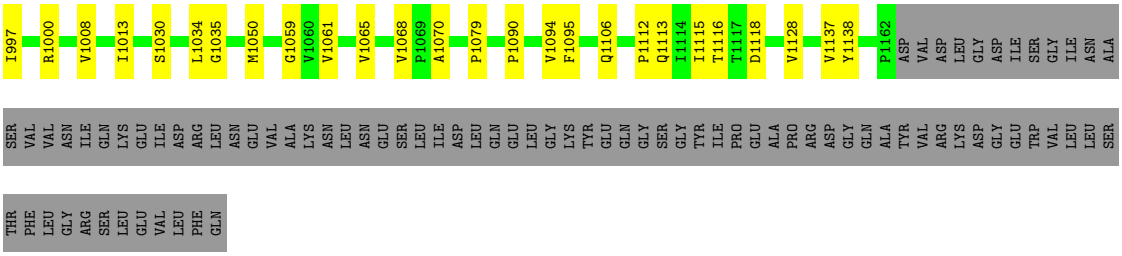
Chain 7-A:



• Molecule 1: Spike glycoprotein,Fibritin

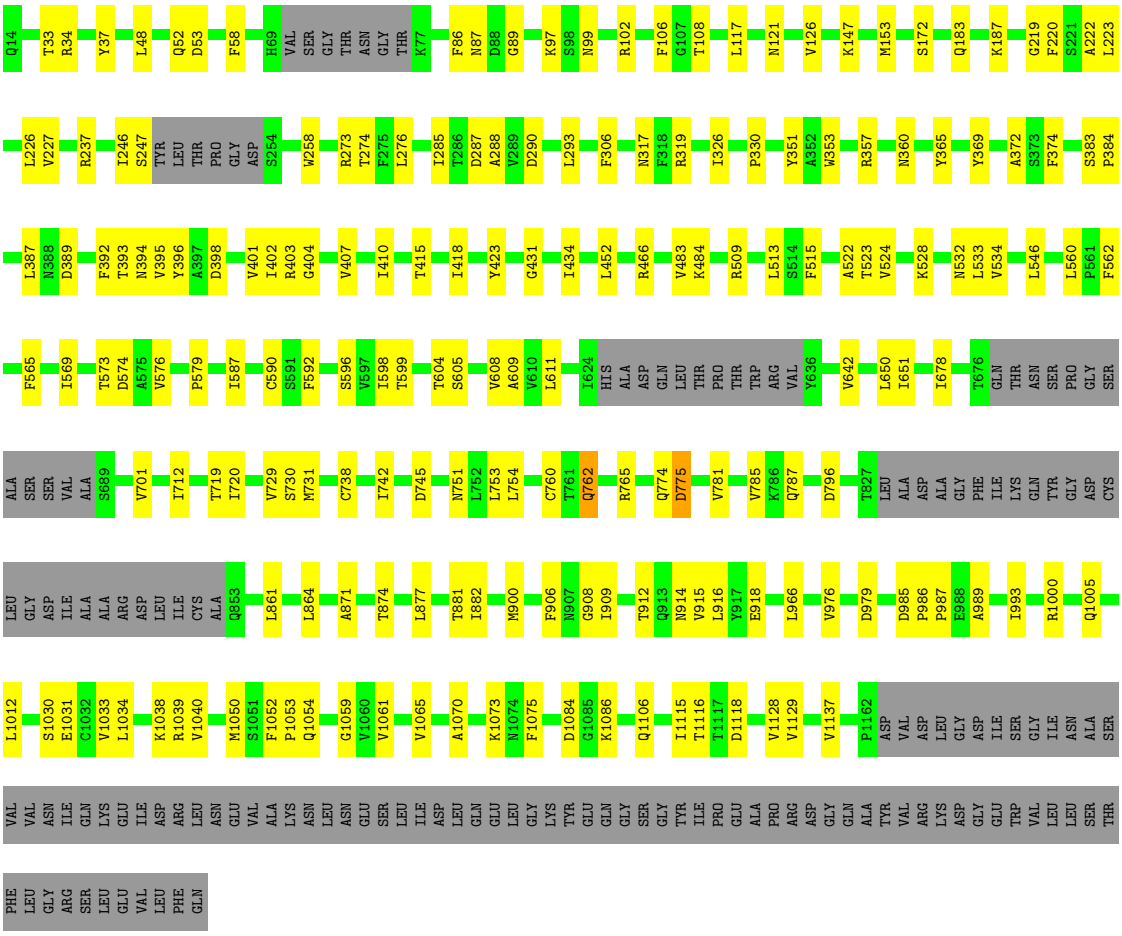
Chain 7-B:





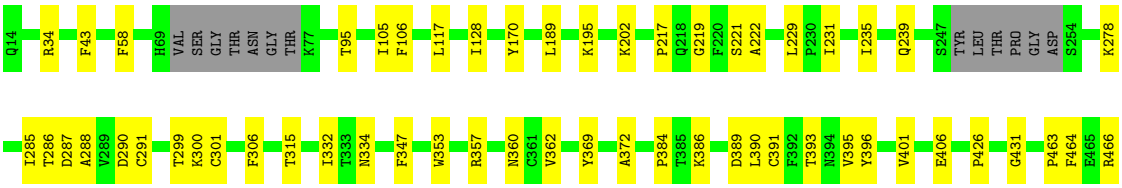
• Molecule 1: Spike glycoprotein,Fibritin

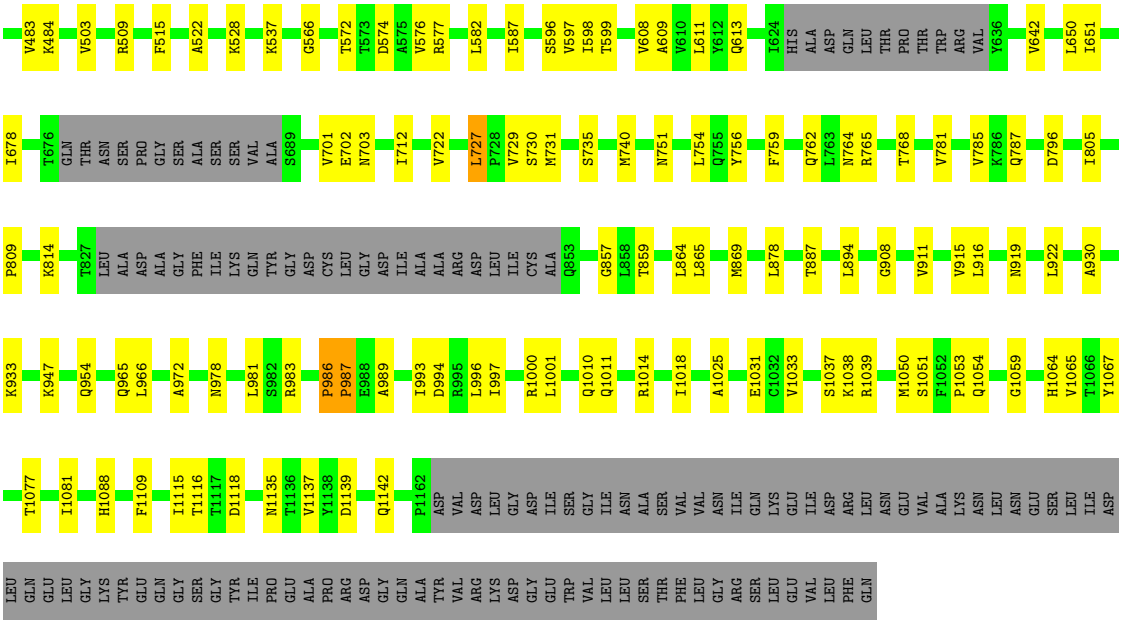
Chain 7-C:



• Molecule 1: Spike glycoprotein,Fibritin

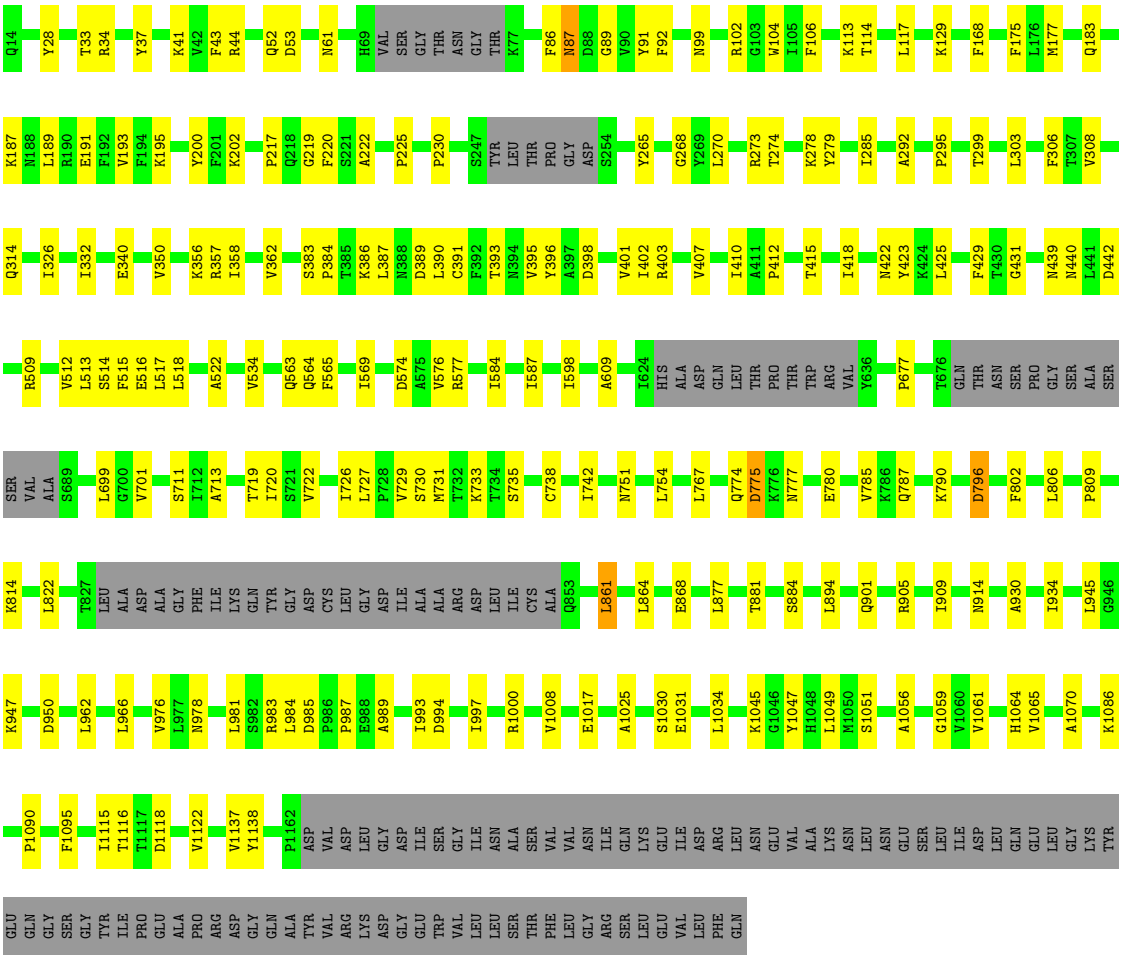
Chain 8-A:





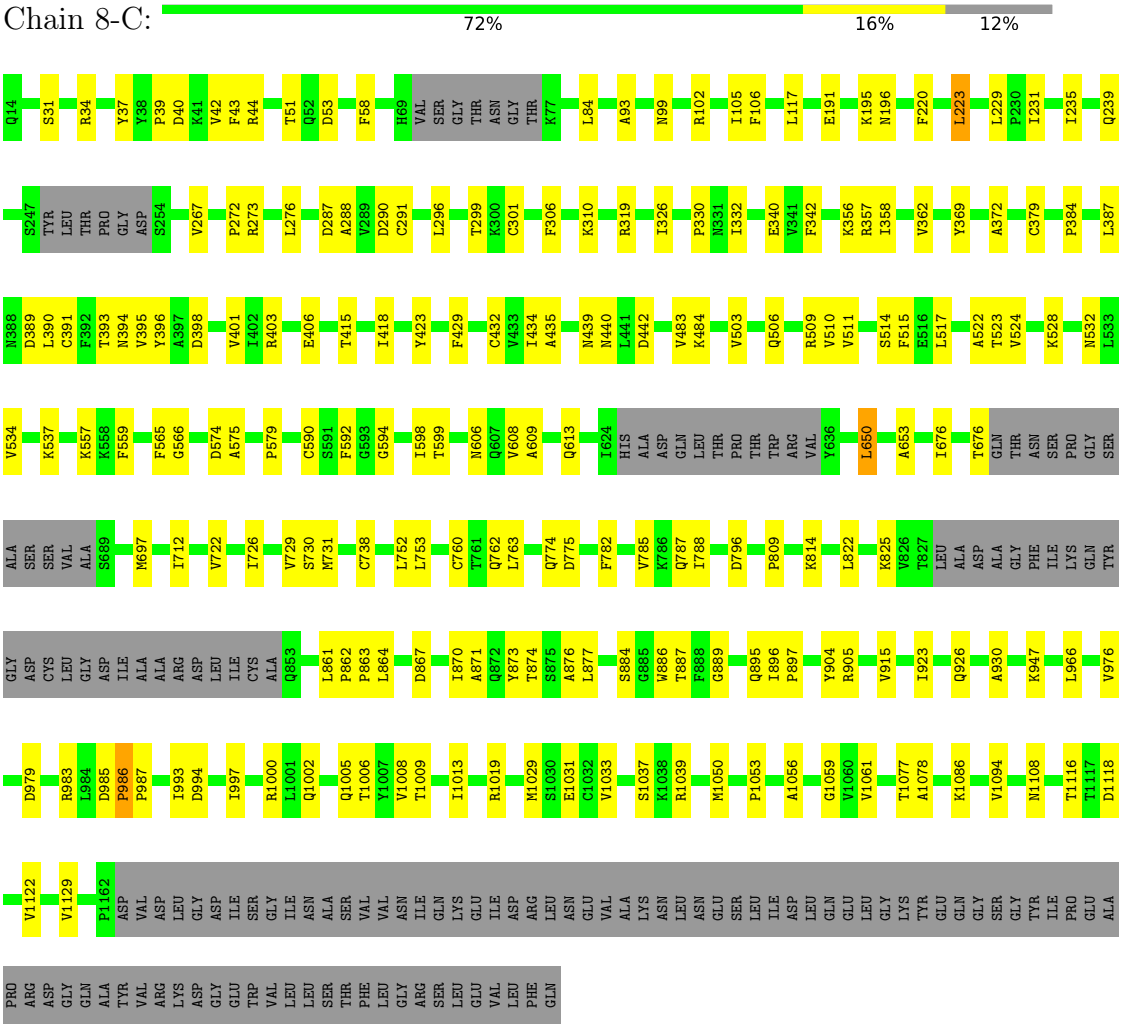
• Molecule 1: Spike glycoprotein,Fibritin

Chain 8-B:



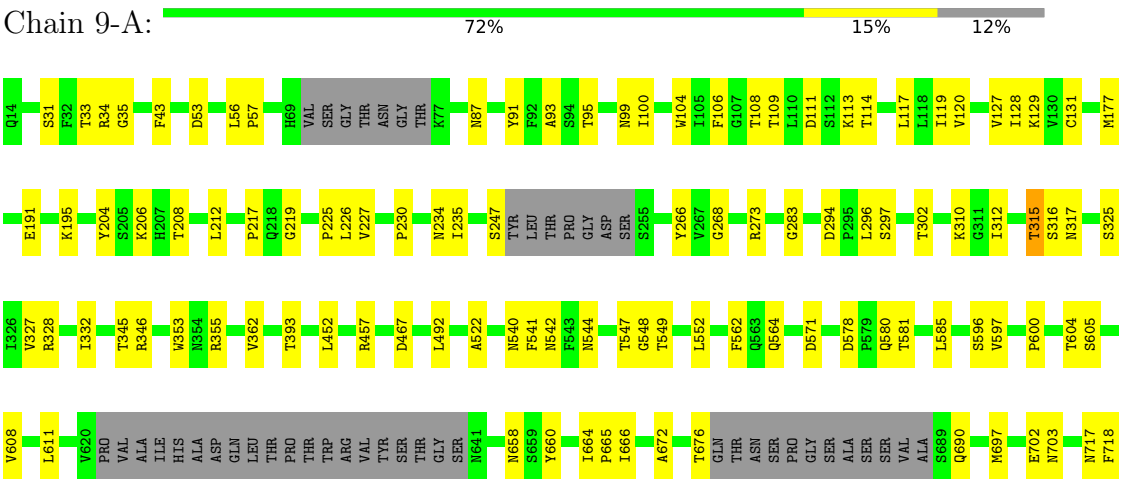
• Molecule 1: Spike glycoprotein,Fibritin

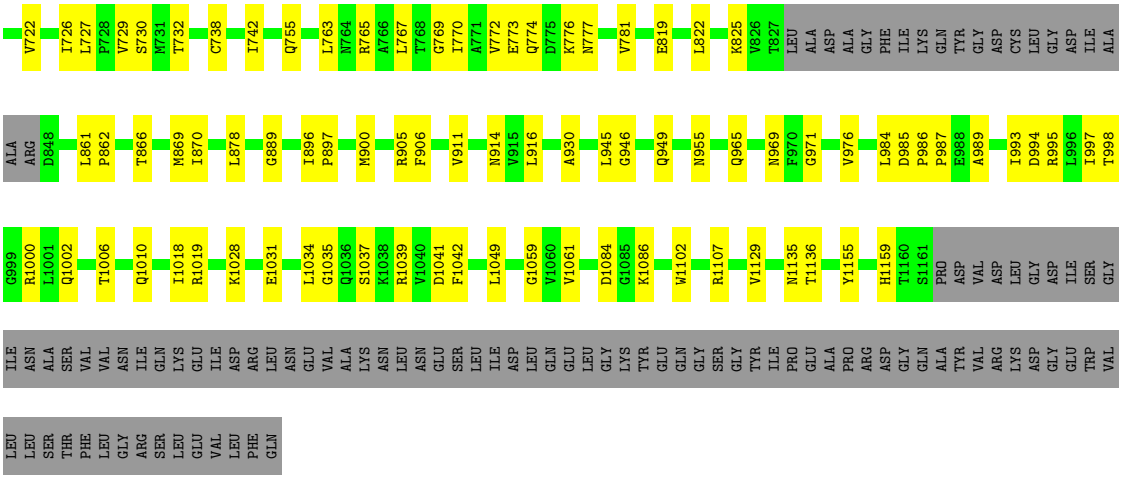
Chain 8-C:



• Molecule 1: Spike glycoprotein,Fibritin

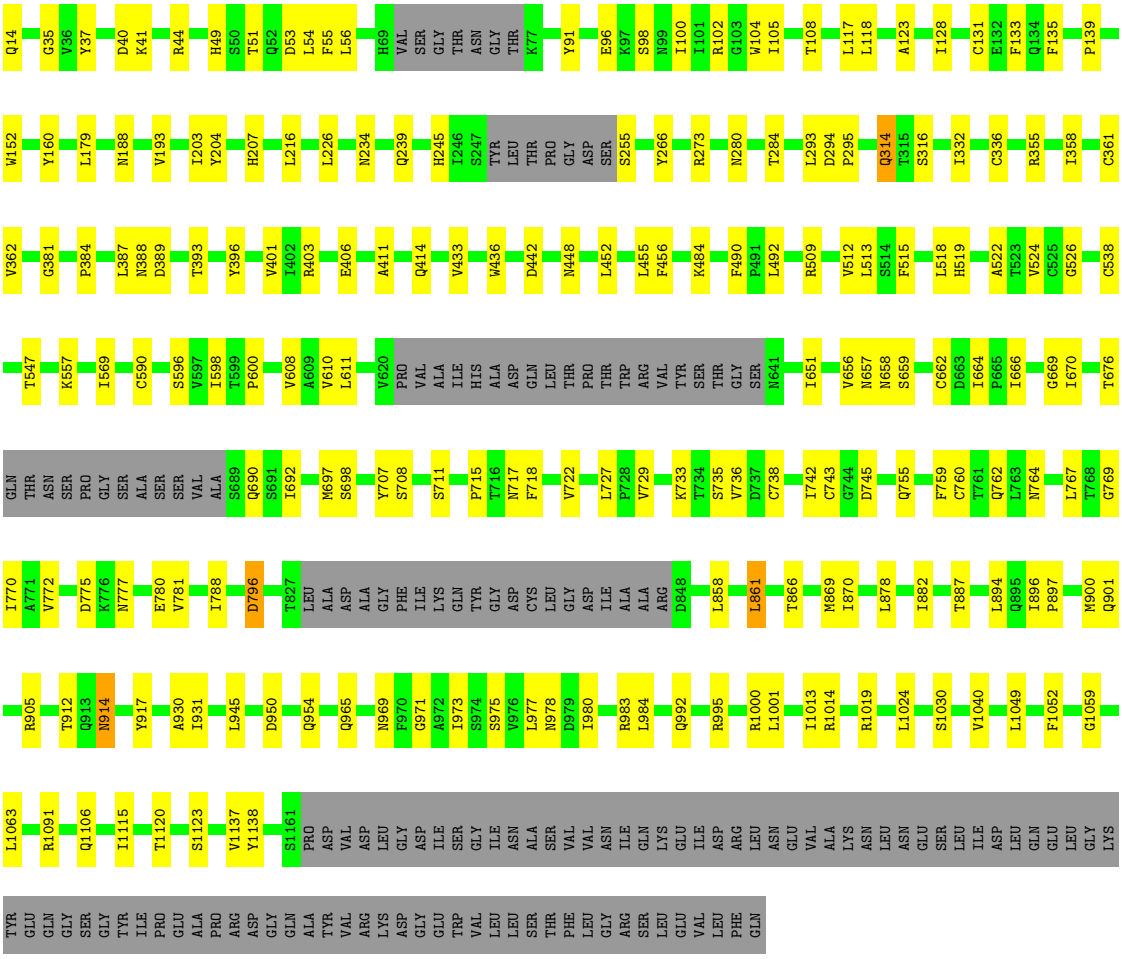
Chain 9-A:





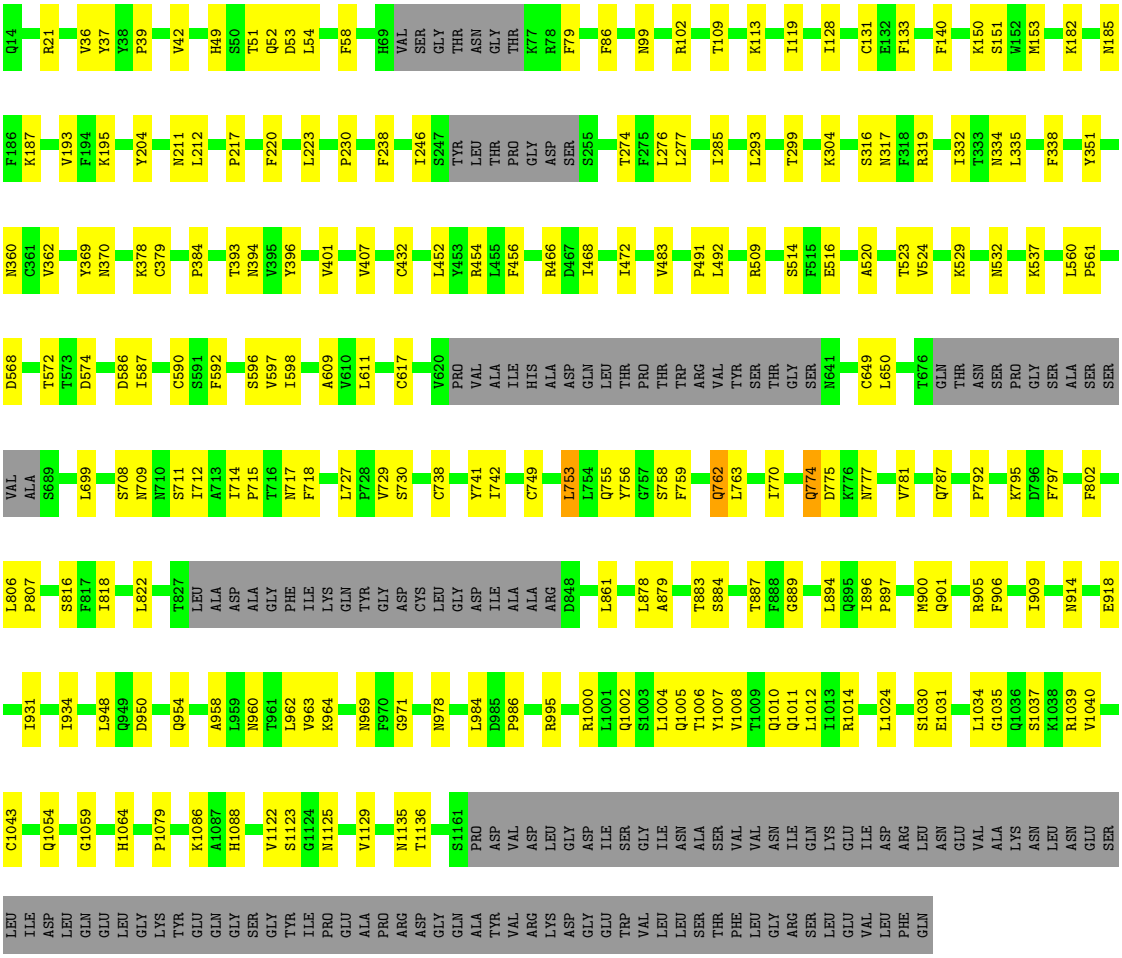
• Molecule 1: Spike glycoprotein,Fibritin

Chain 9-B:



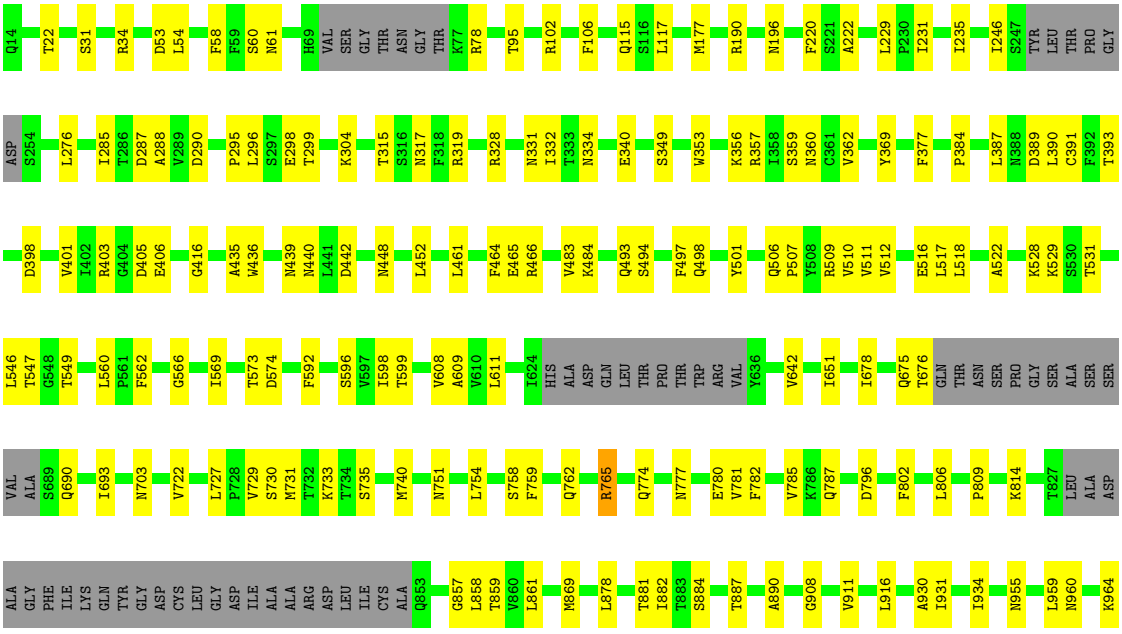
• Molecule 1: Spike glycoprotein,Fibritin

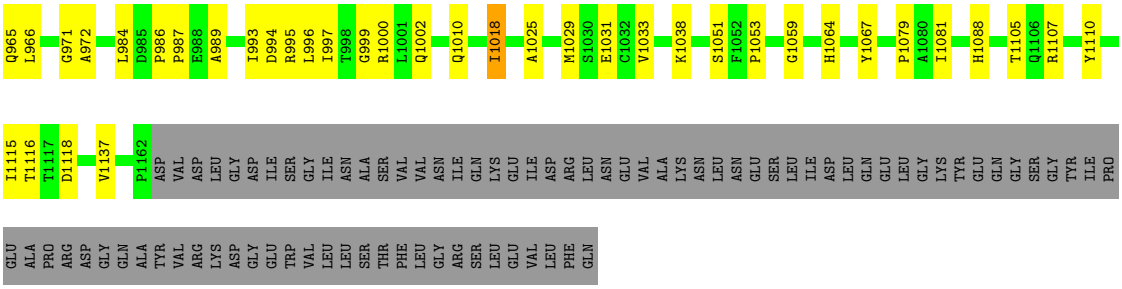
Chain 9-C:



• Molecule 1: Spike glycoprotein,Fibritin

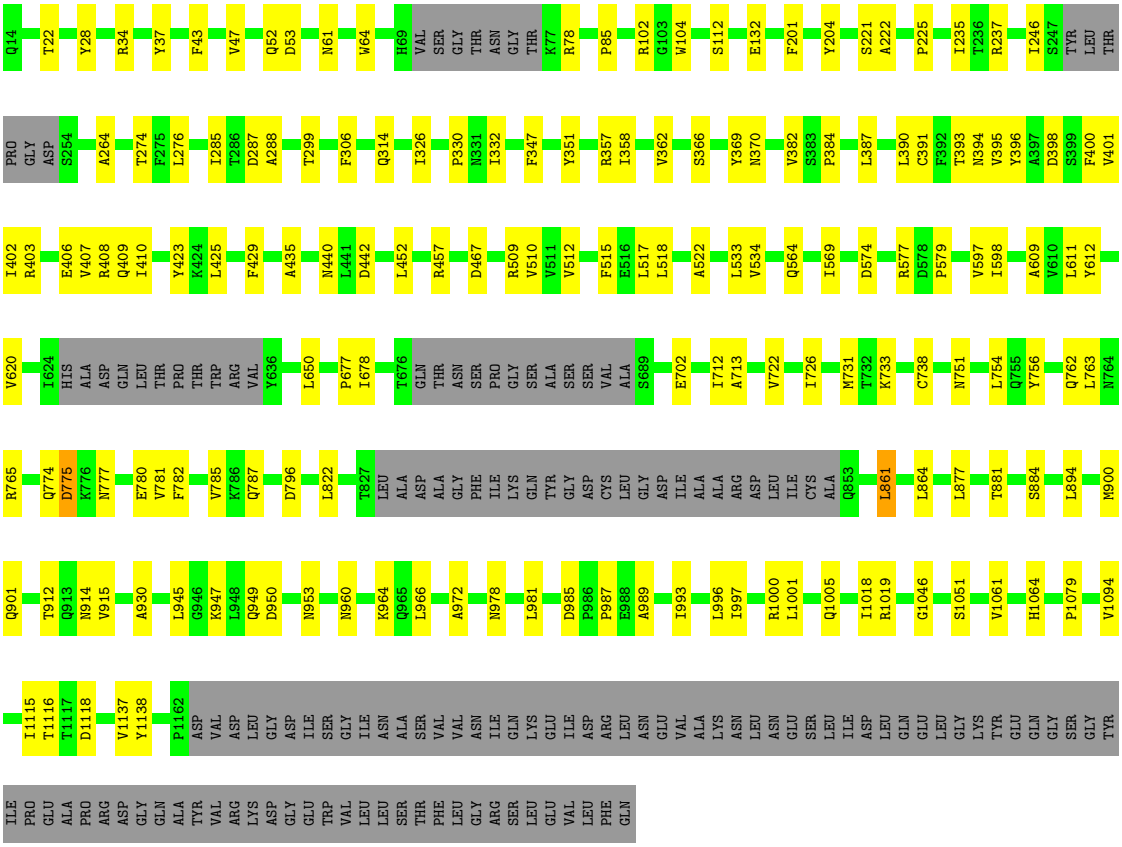
Chain 10-A:





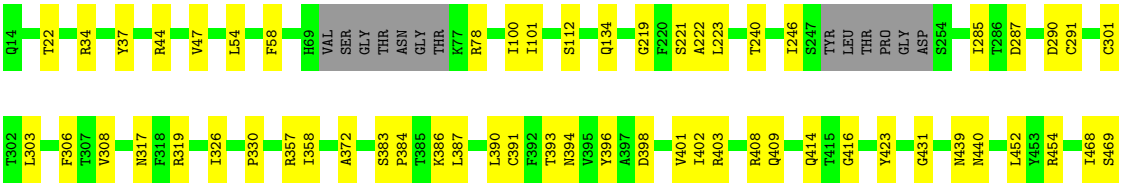
• Molecule 1: Spike glycoprotein,Fibritin

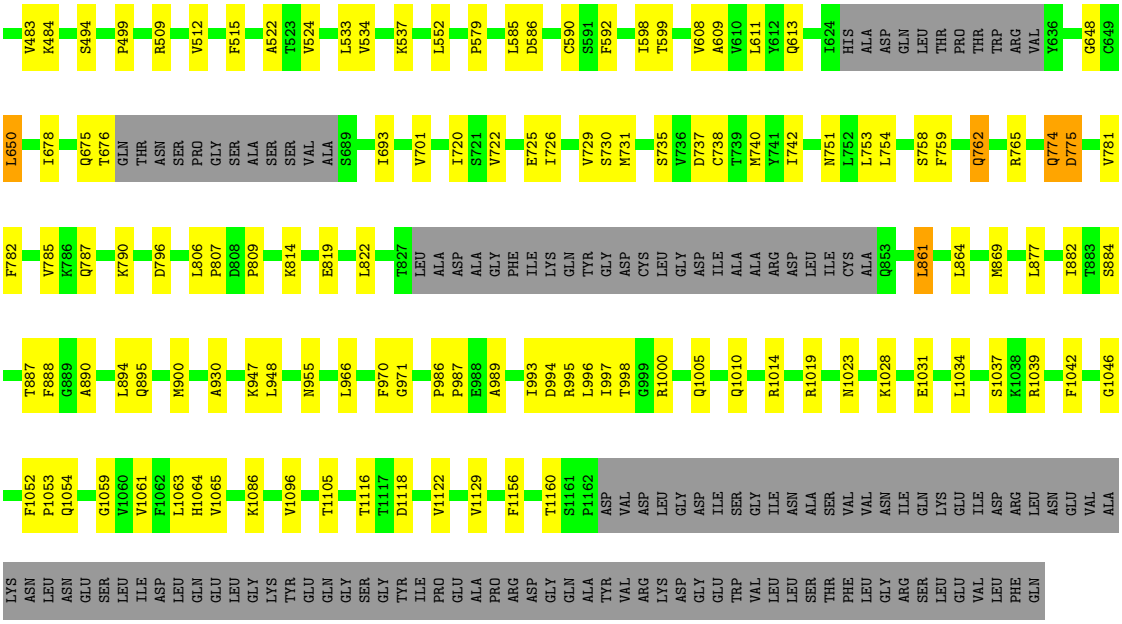
Chain 10-B:



• Molecule 1: Spike glycoprotein,Fibritin

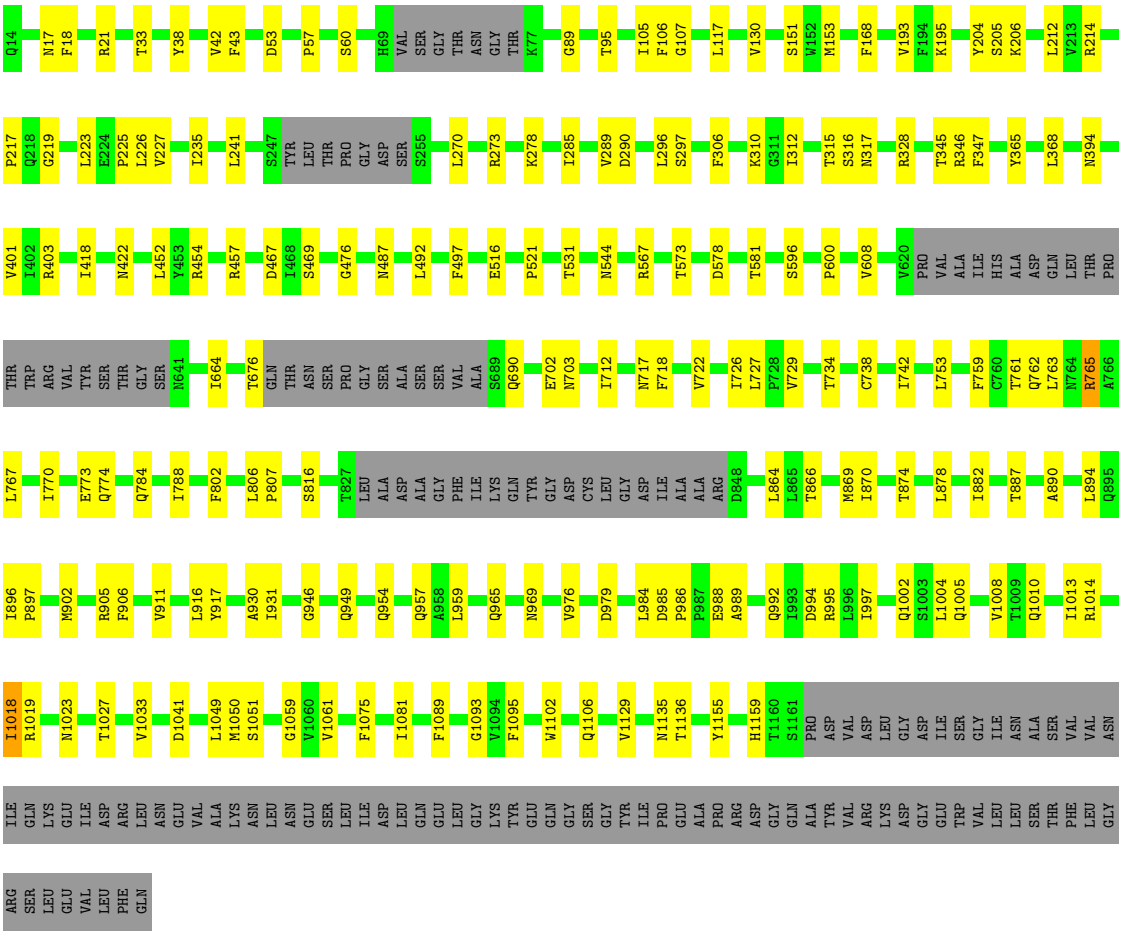
Chain 10-C:





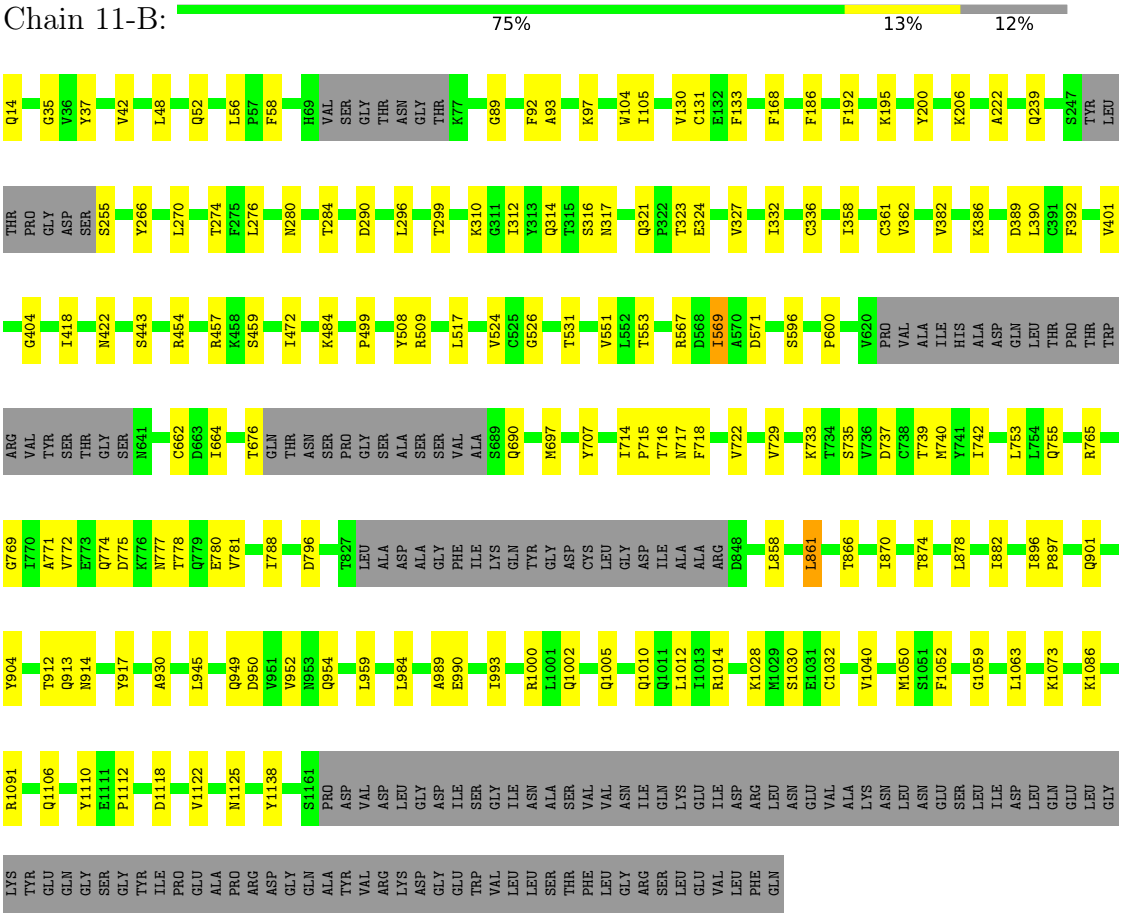
• Molecule 1: Spike glycoprotein,Fibritin

Chain 11-A:



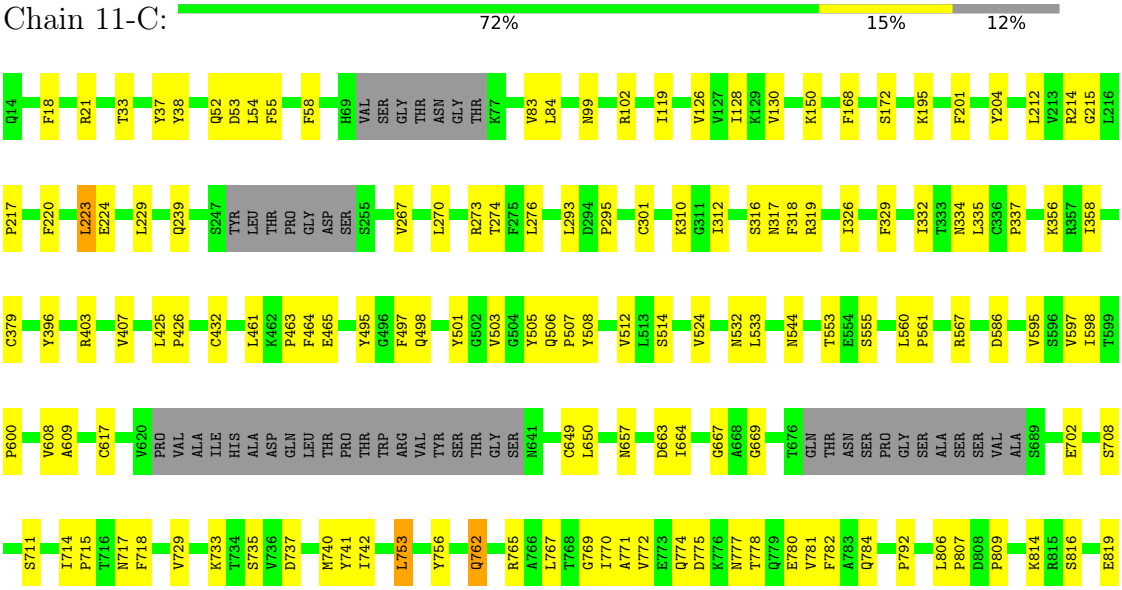
• Molecule 1: Spike glycoprotein,Fibritin

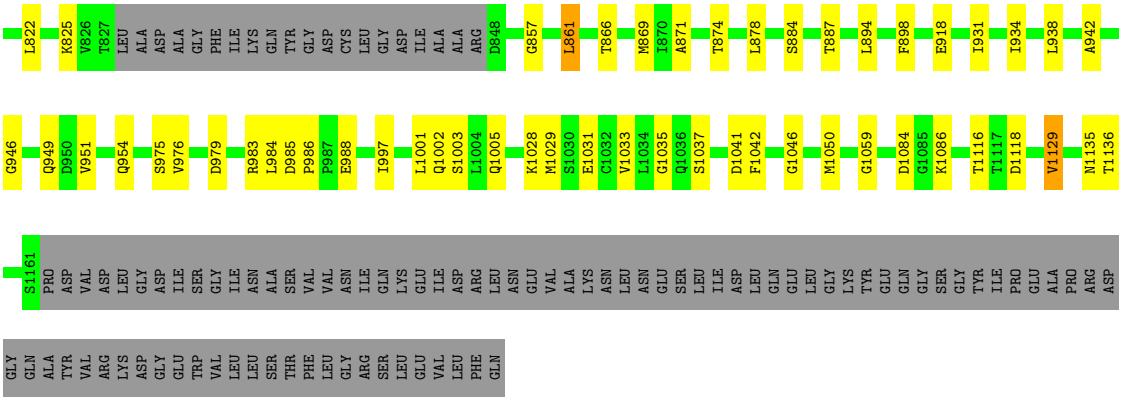
Chain 11-B:



• Molecule 1: Spike glycoprotein,Fibritin

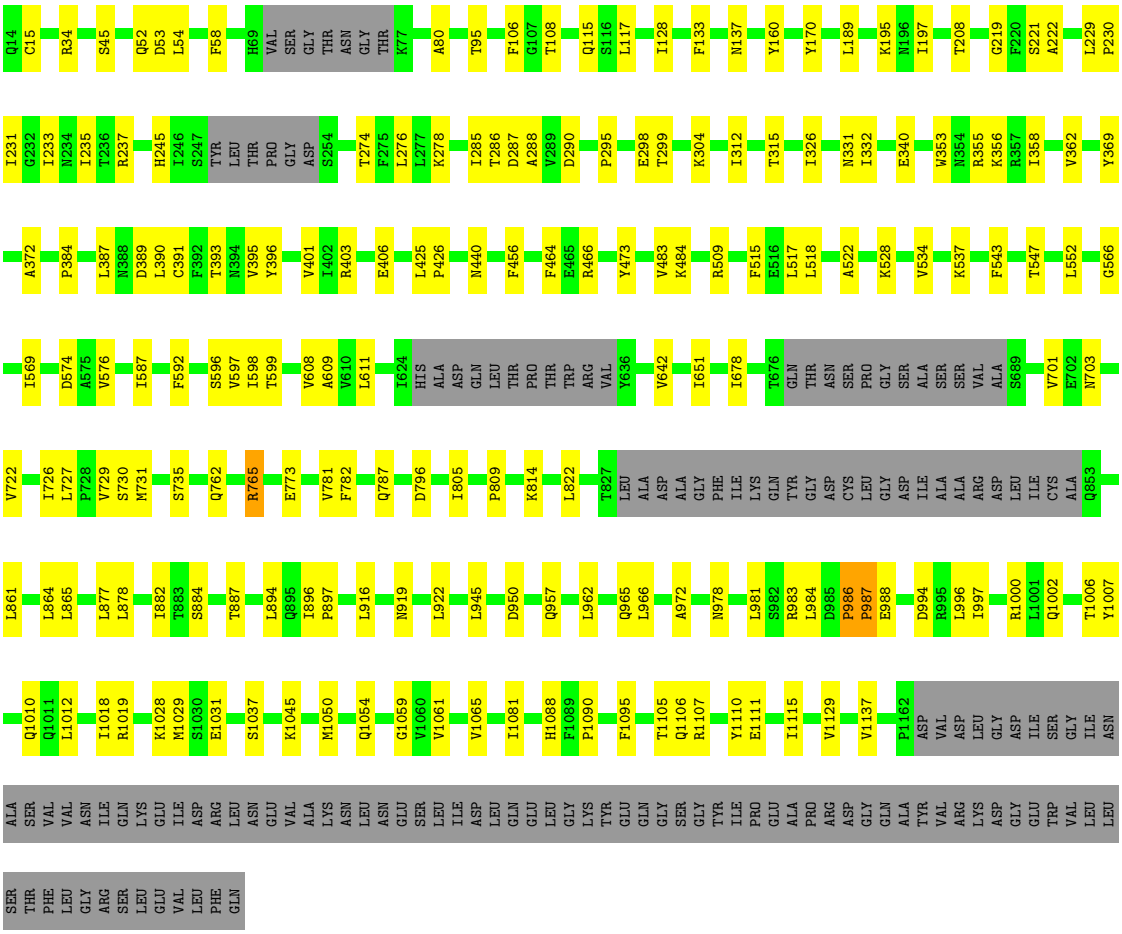
Chain 11-C:





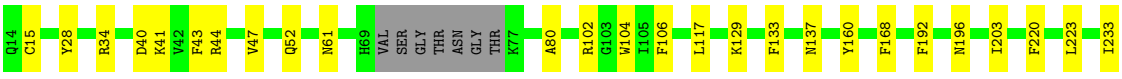
• Molecule 1: Spike glycoprotein,Fibritin

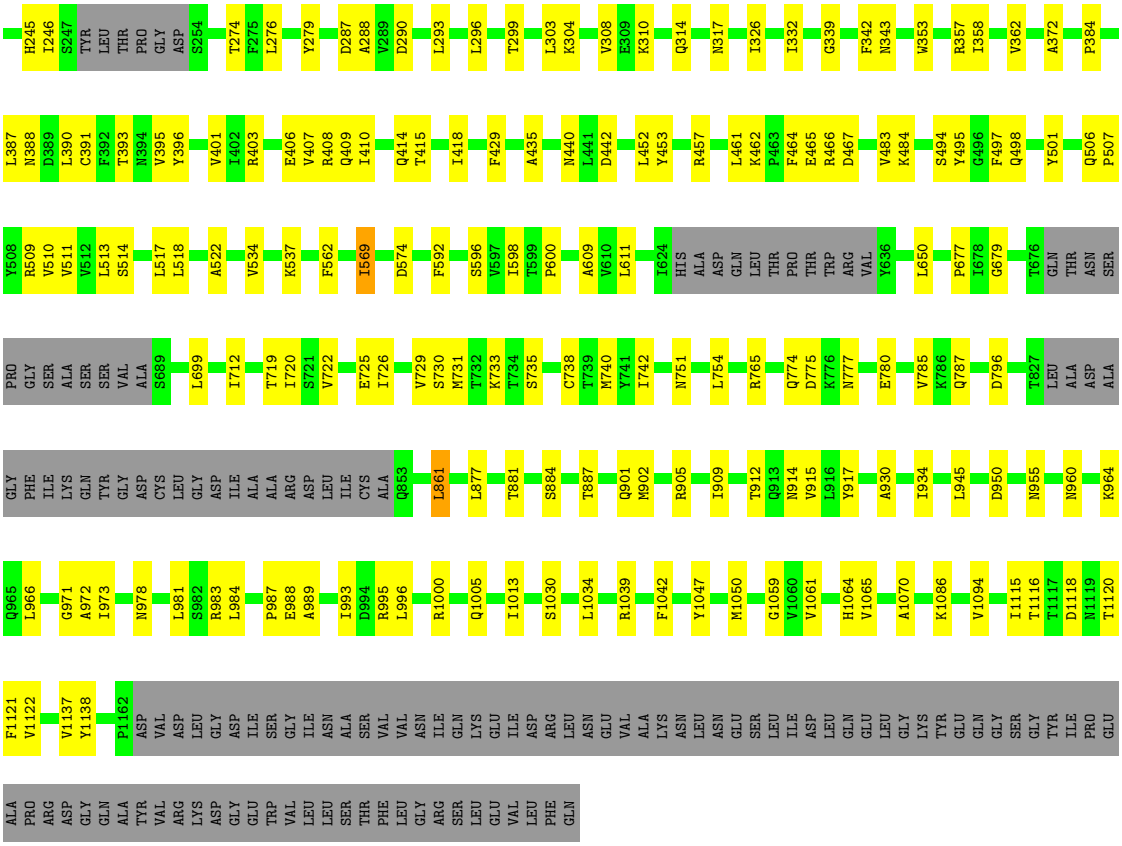
Chain 12-A:



• Molecule 1: Spike glycoprotein,Fibritin

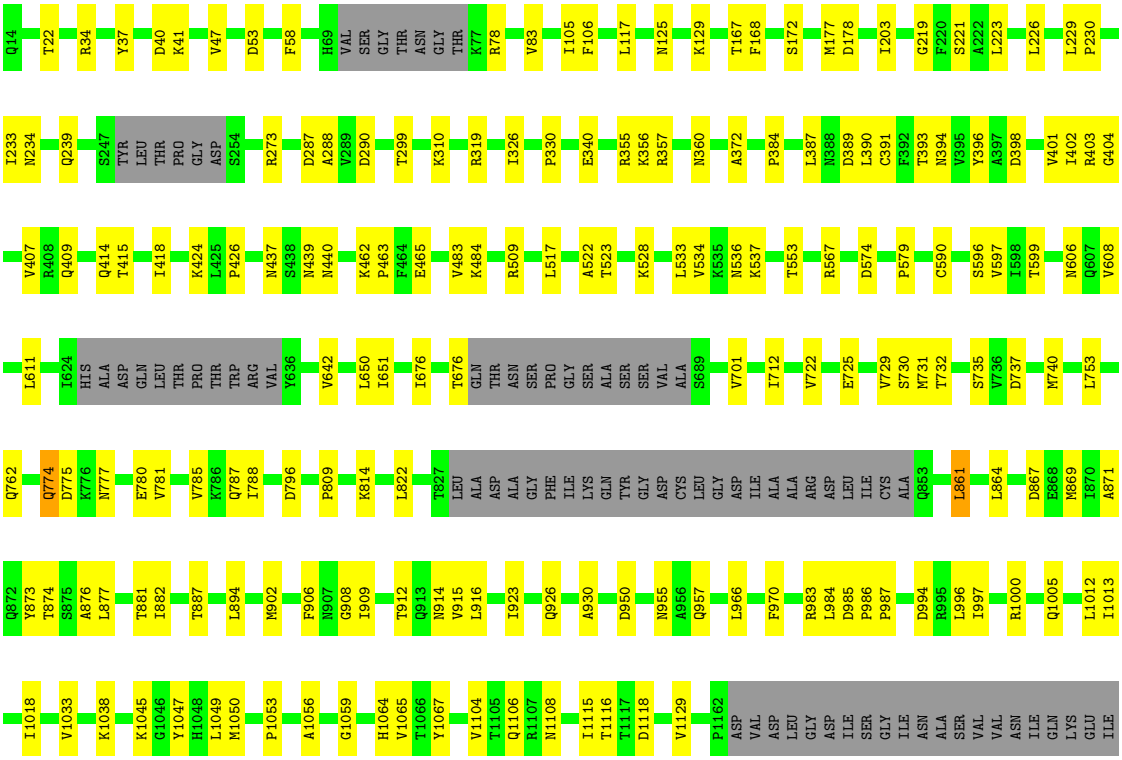
Chain 12-B:

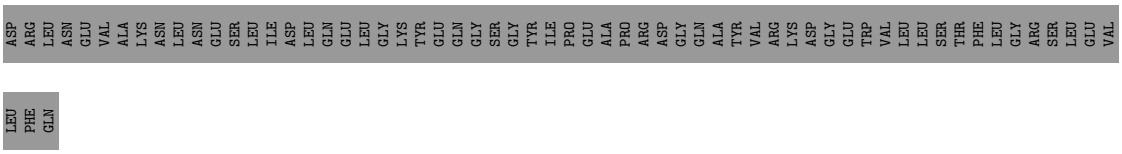




• Molecule 1: Spike glycoprotein,Fibritin

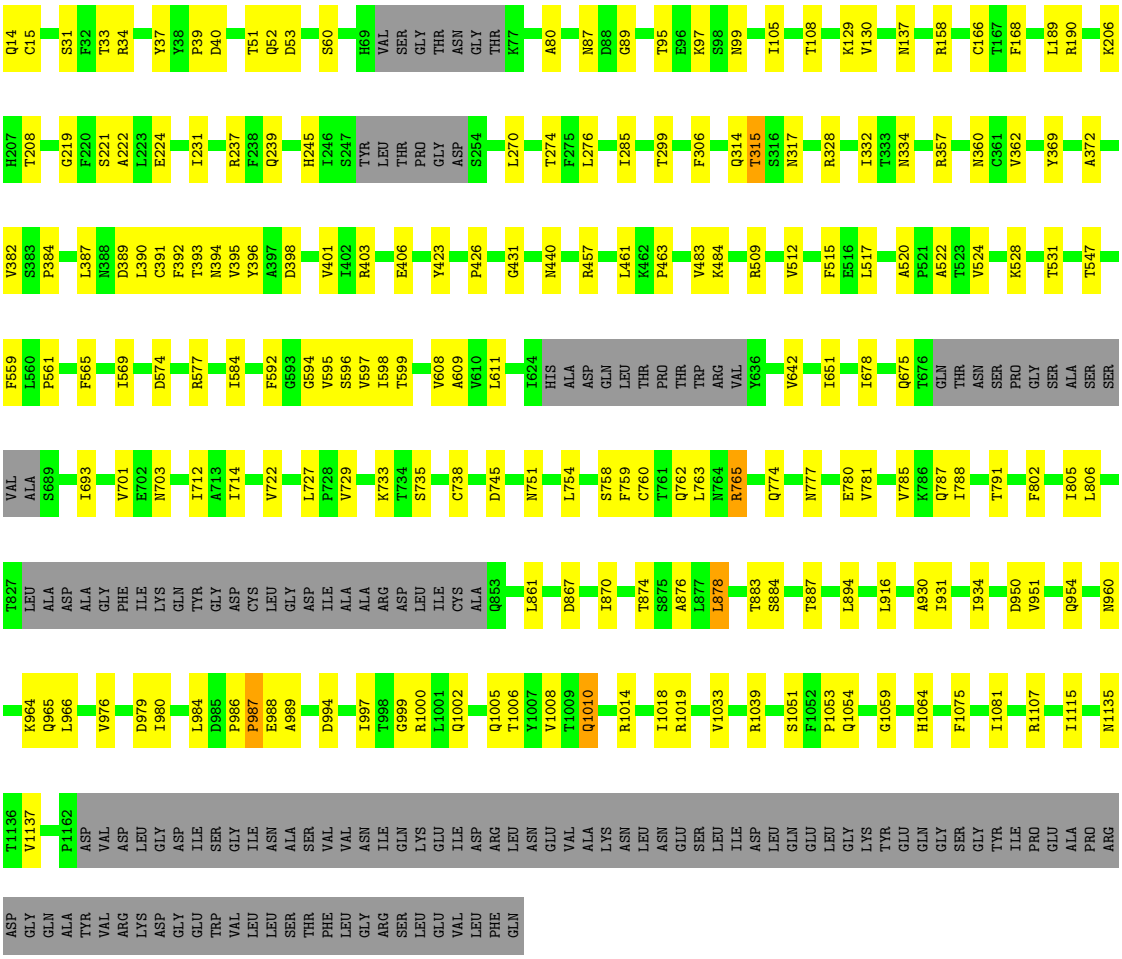
Chain 12-C:





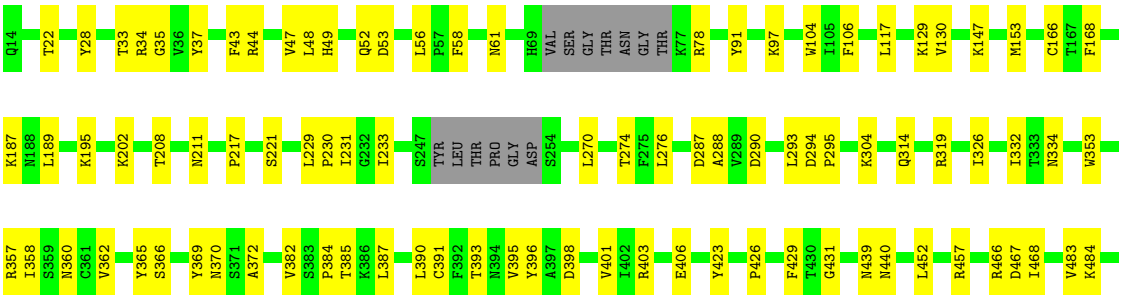
• Molecule 1: Spike glycoprotein,Fibritin

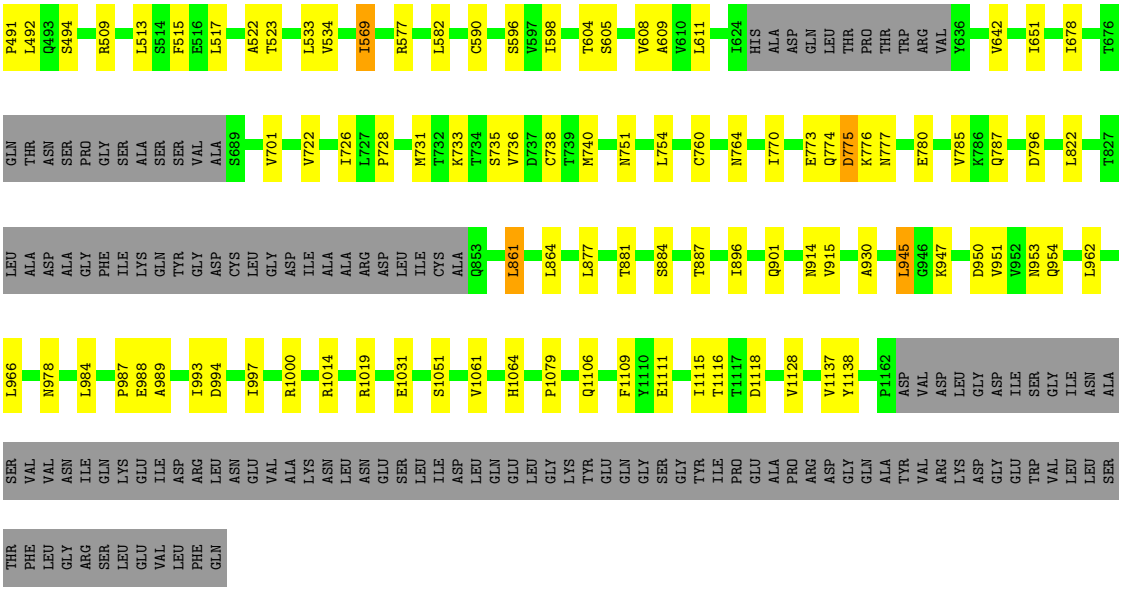
Chain 13-A:



• Molecule 1: Spike glycoprotein,Fibritin

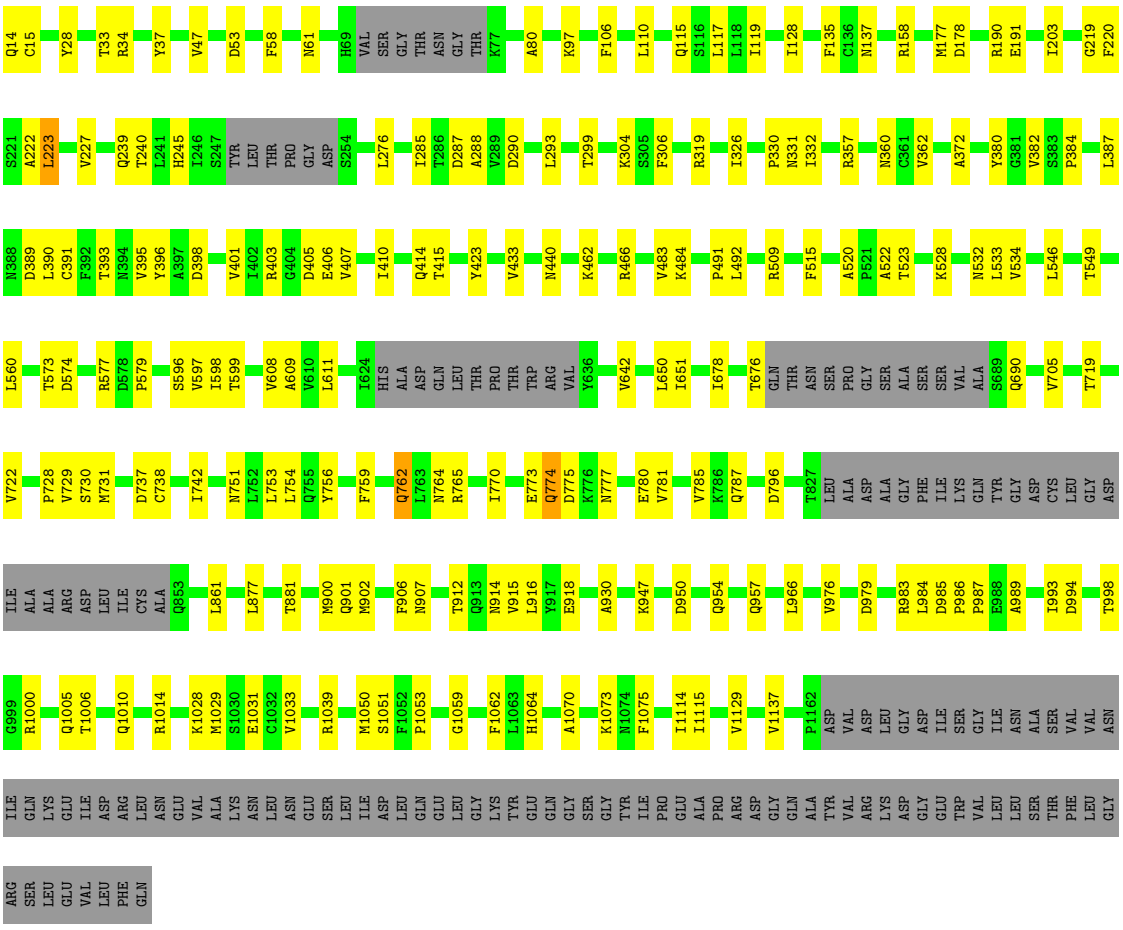
Chain 13-B:





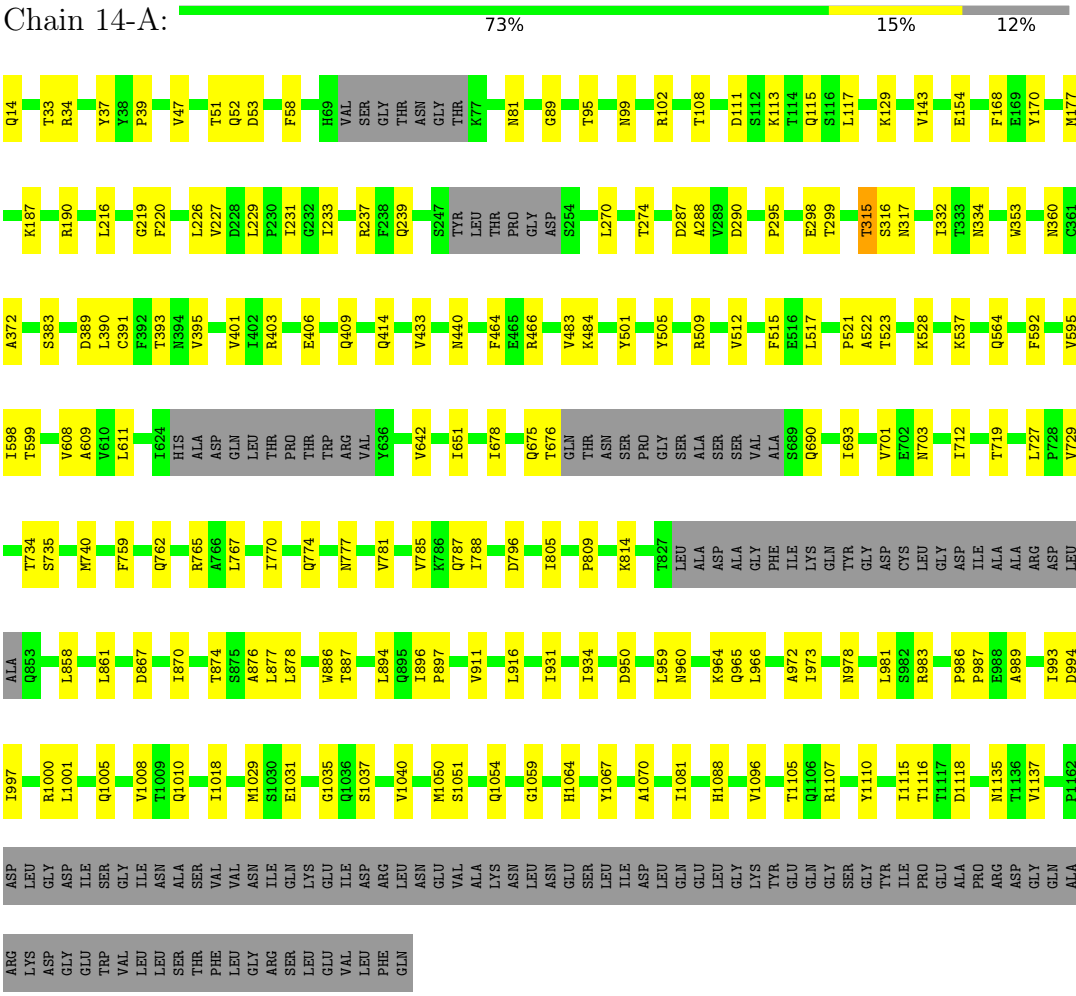
• Molecule 1: Spike glycoprotein,Fibritin

Chain 13-C:



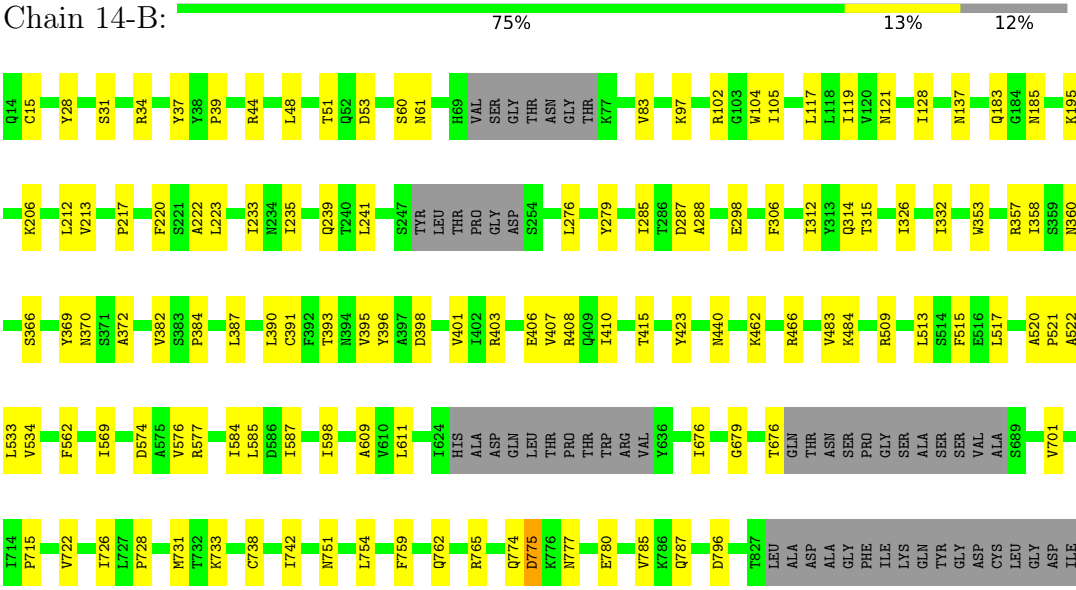
• Molecule 1: Spike glycoprotein,Fibritin

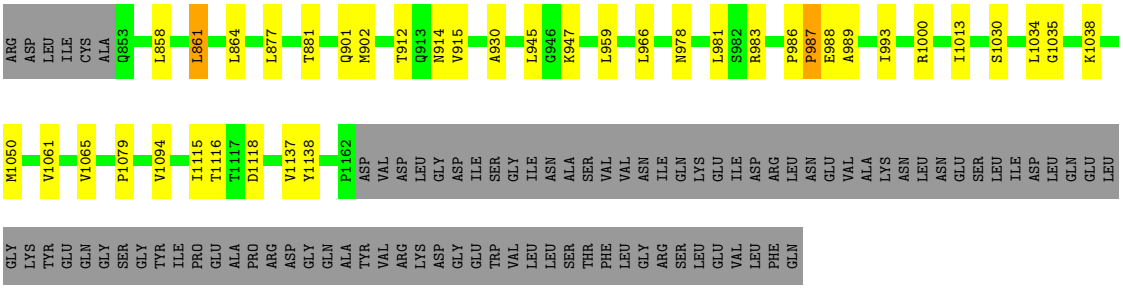
Chain 14-A:



• Molecule 1: Spike glycoprotein,Fibritin

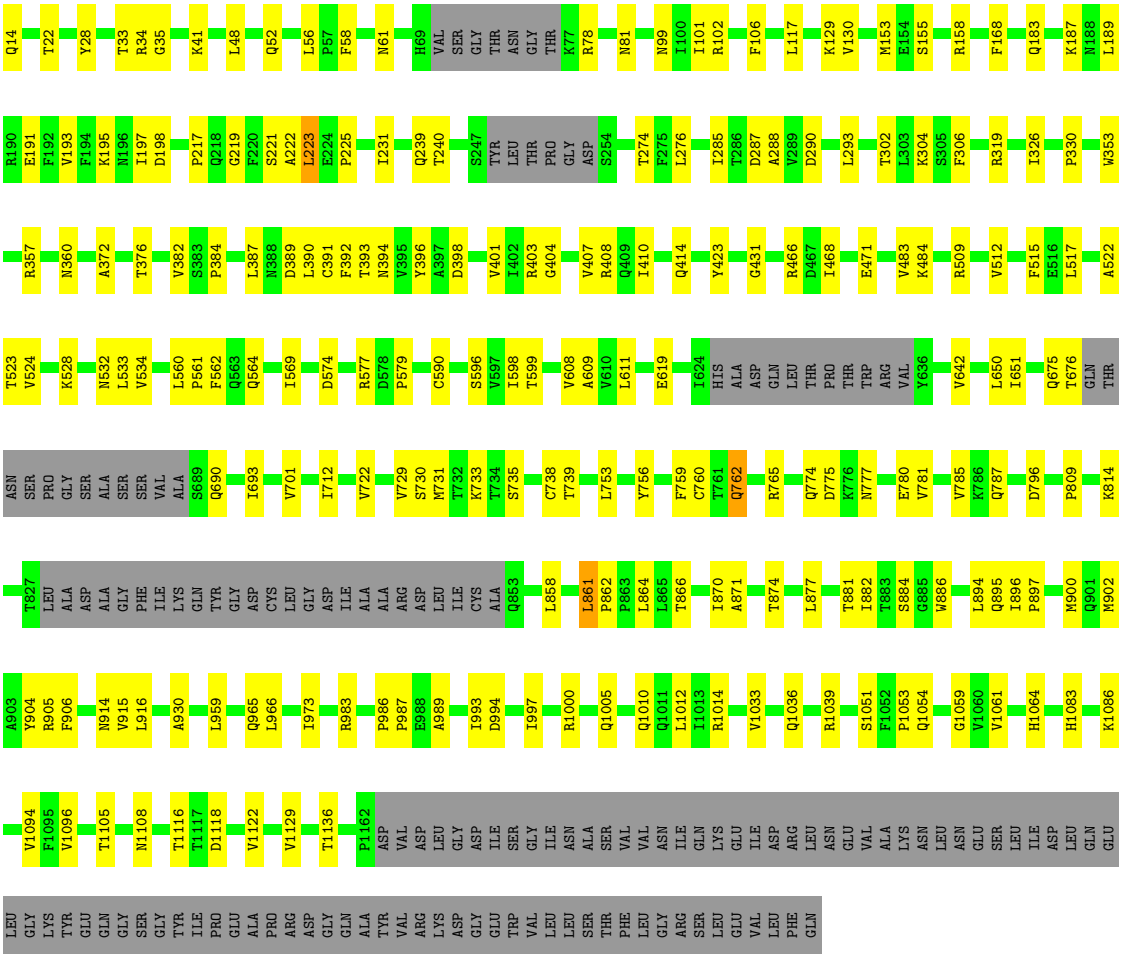
Chain 14-B:





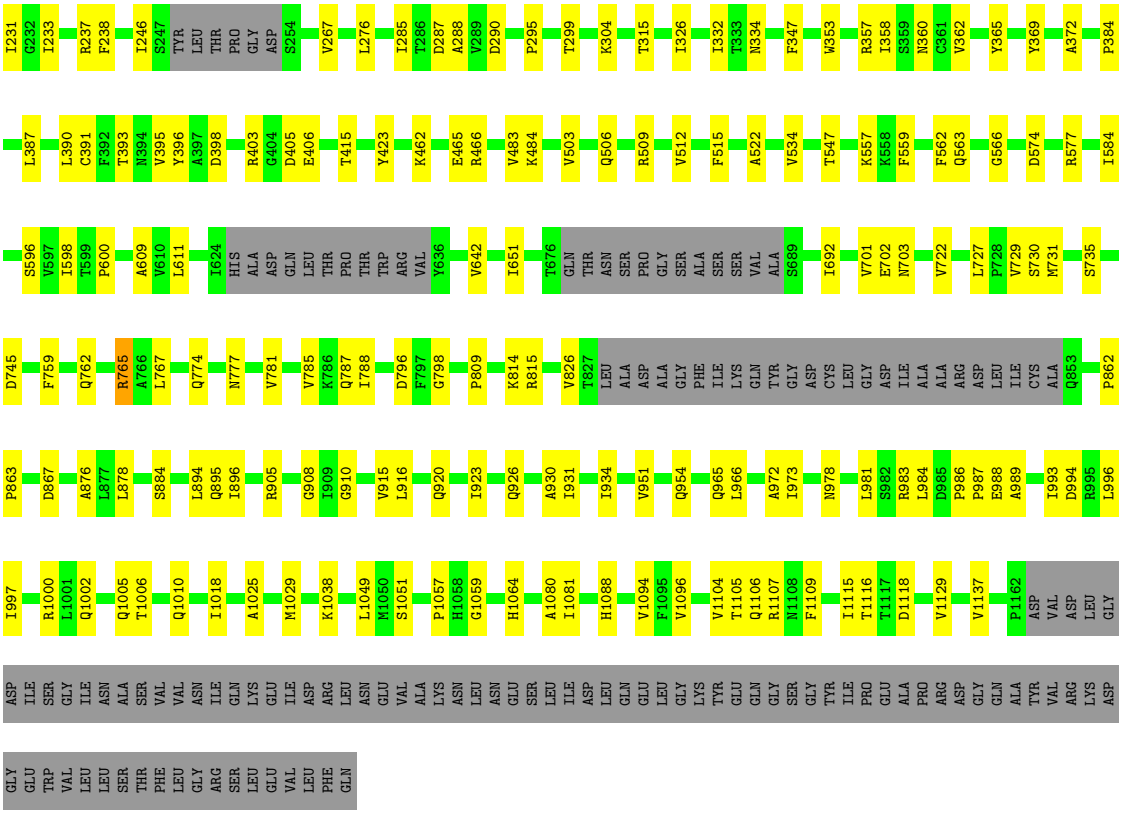
• Molecule 1: Spike glycoprotein,Fibritin

Chain 14-C:



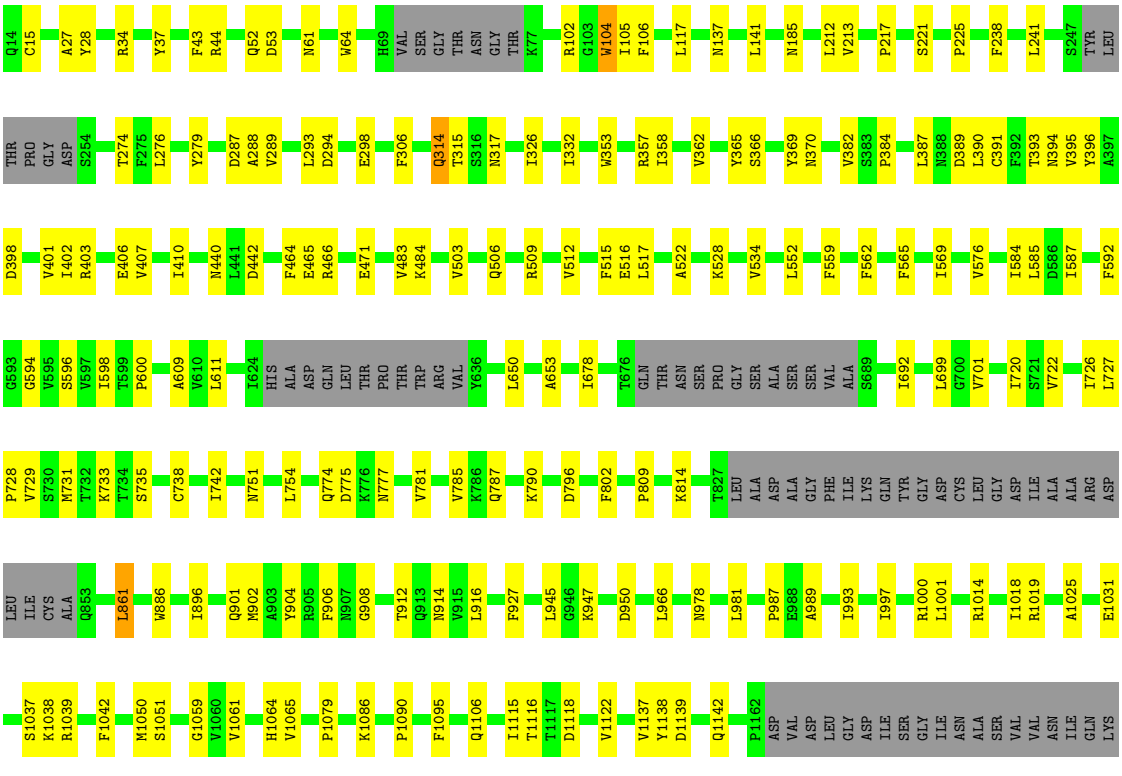
• Molecule 1: Spike glycoprotein,Fibritin

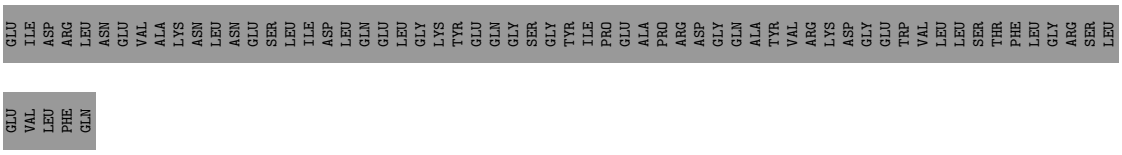
Chain 15-A:



• Molecule 1: Spike glycoprotein,Fibritin

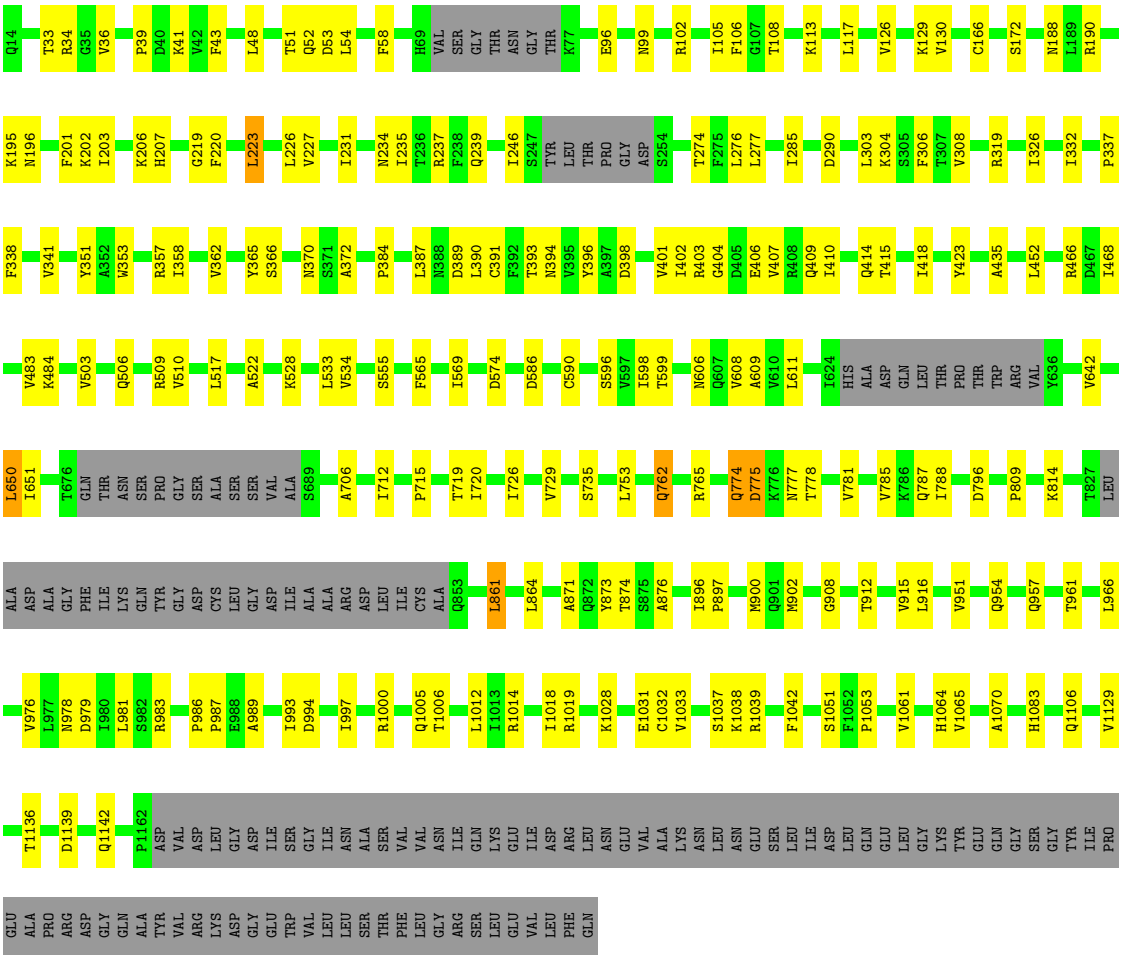
Chain 15-B:





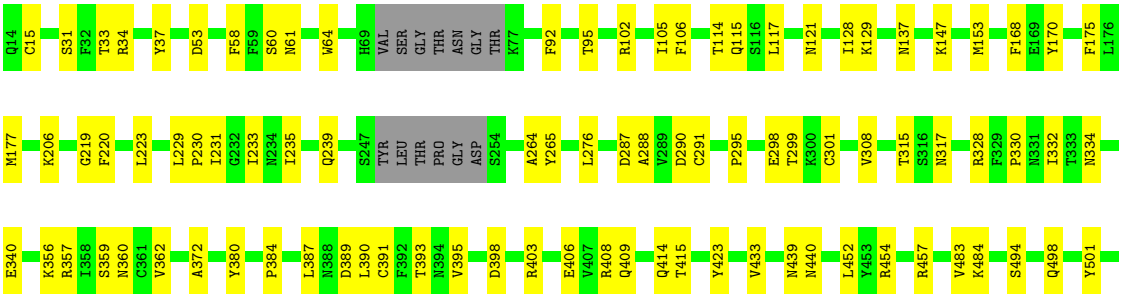
• Molecule 1: Spike glycoprotein,Fibritin

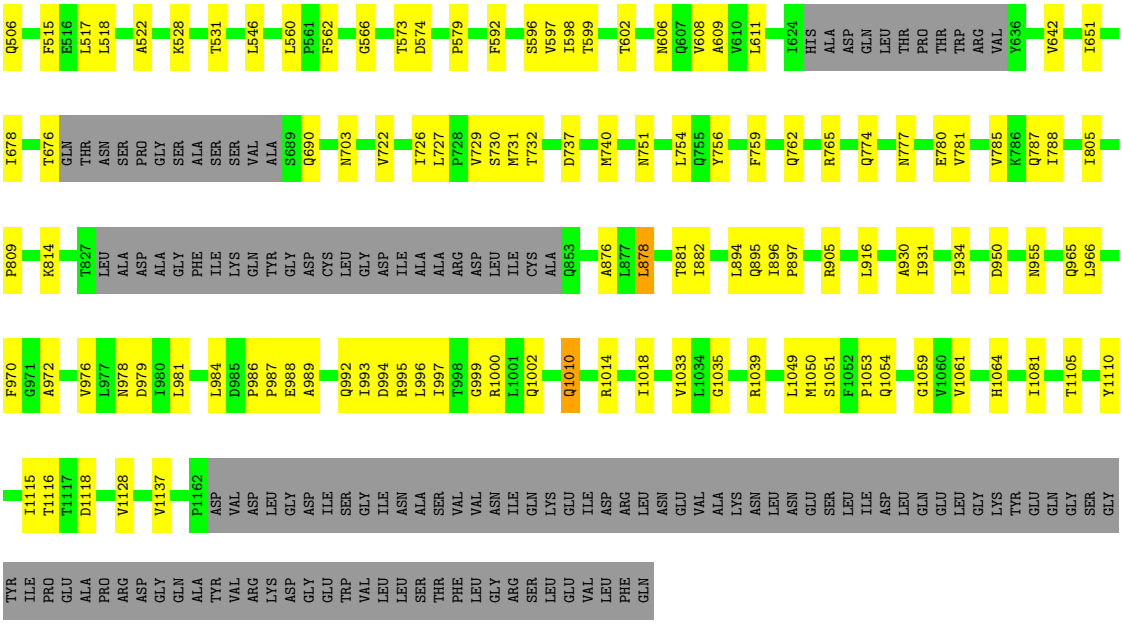
Chain 15-C:



• Molecule 1: Spike glycoprotein,Fibritin

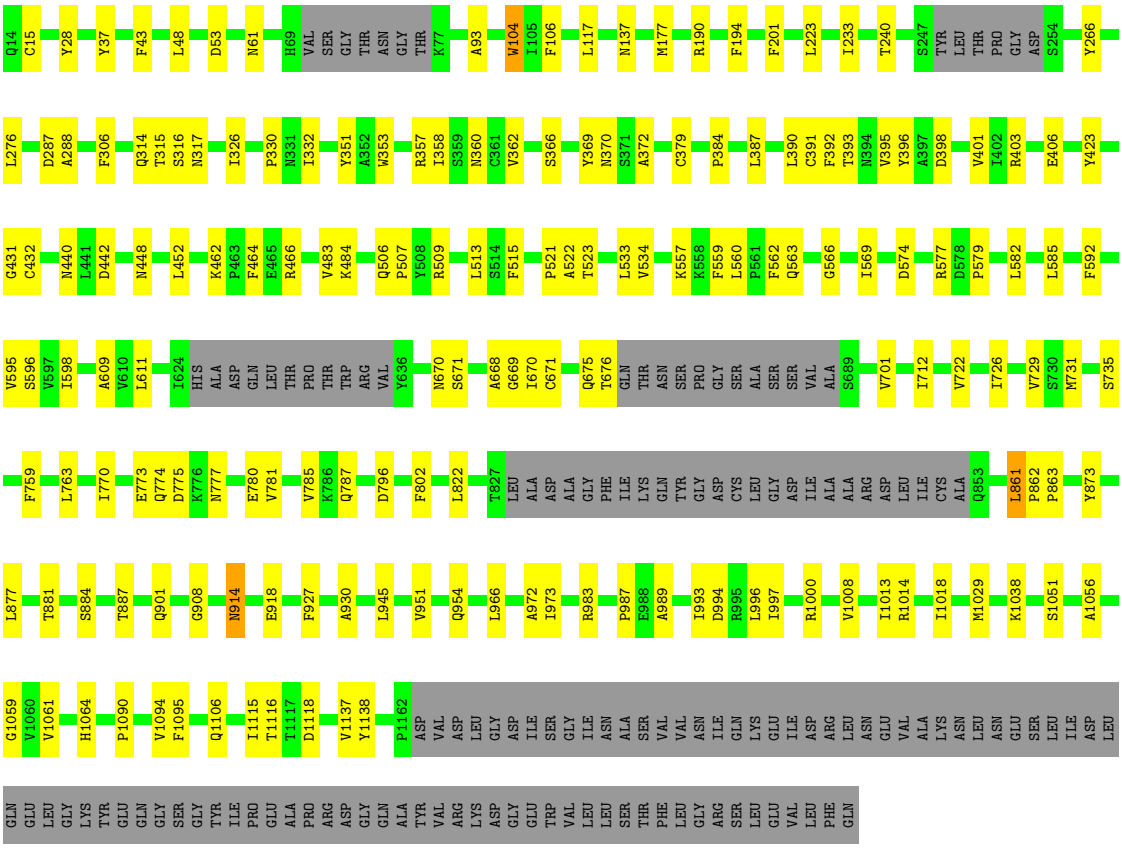
Chain 16-A:





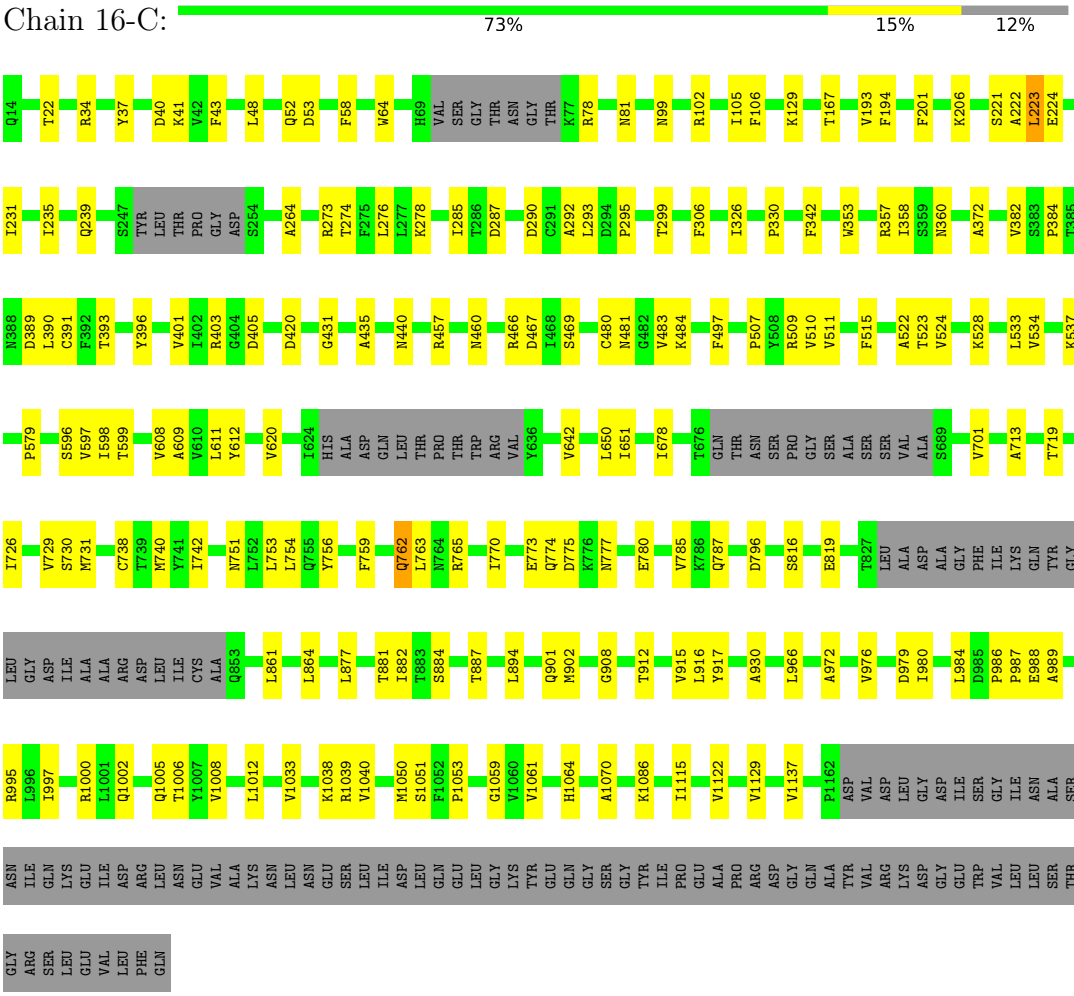
• Molecule 1: Spike glycoprotein,Fibritin

Chain 16-B:



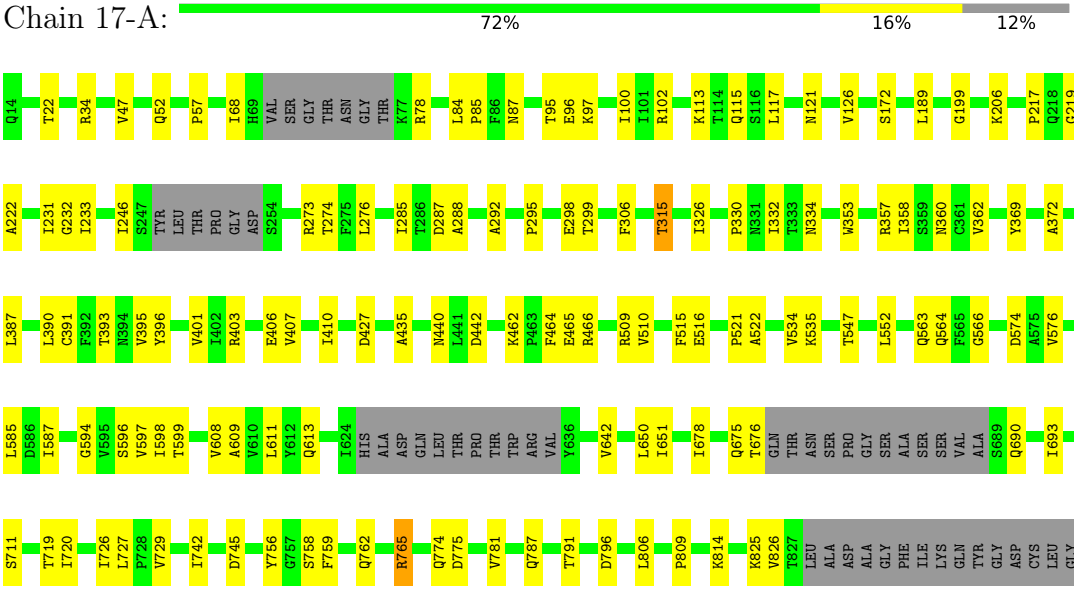
• Molecule 1: Spike glycoprotein,Fibritin

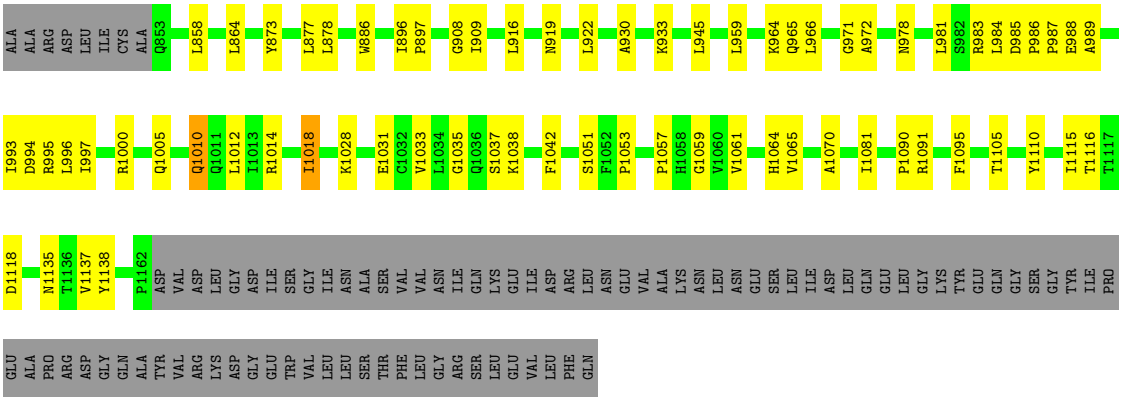
Chain 16-C:



• Molecule 1: Spike glycoprotein,Fibritin

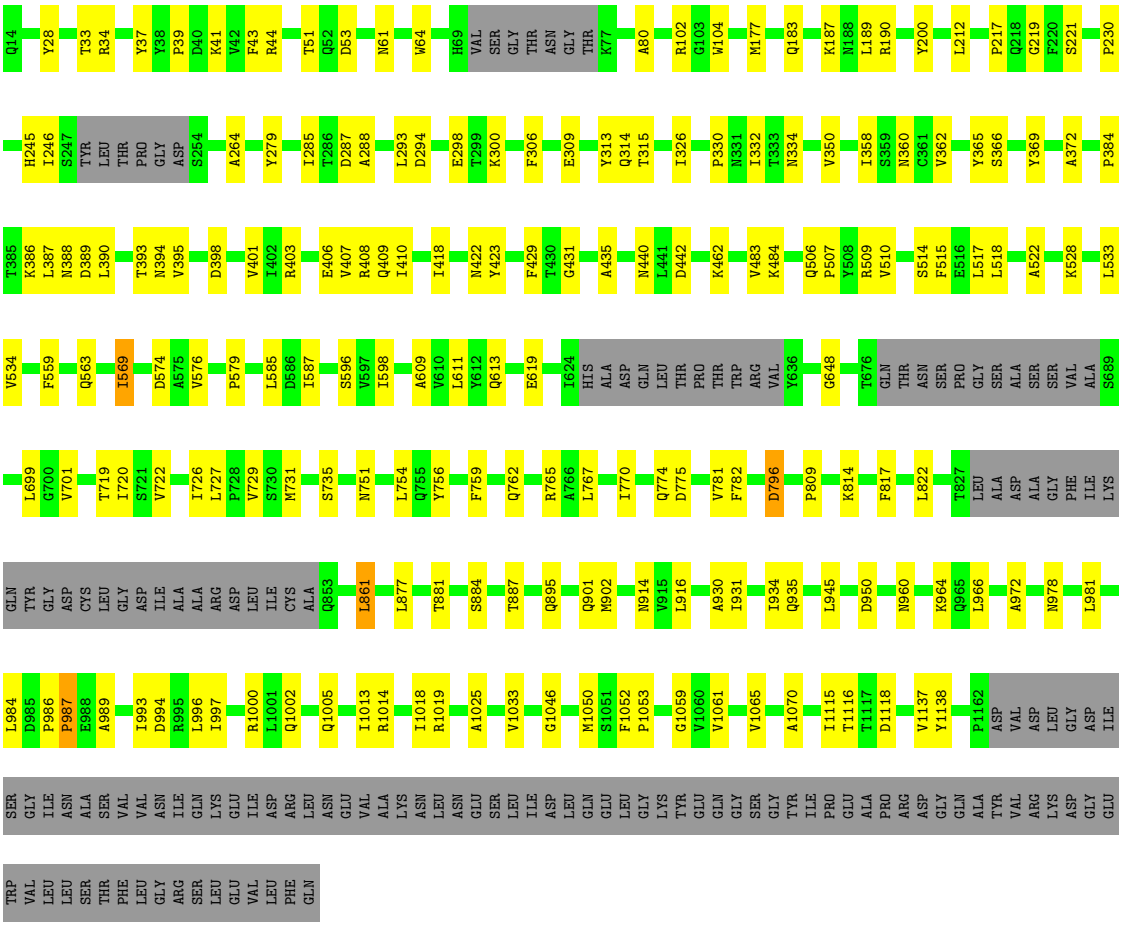
Chain 17-A:





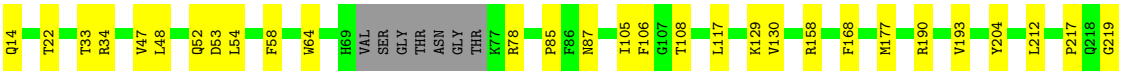
• Molecule 1: Spike glycoprotein,Fibritin

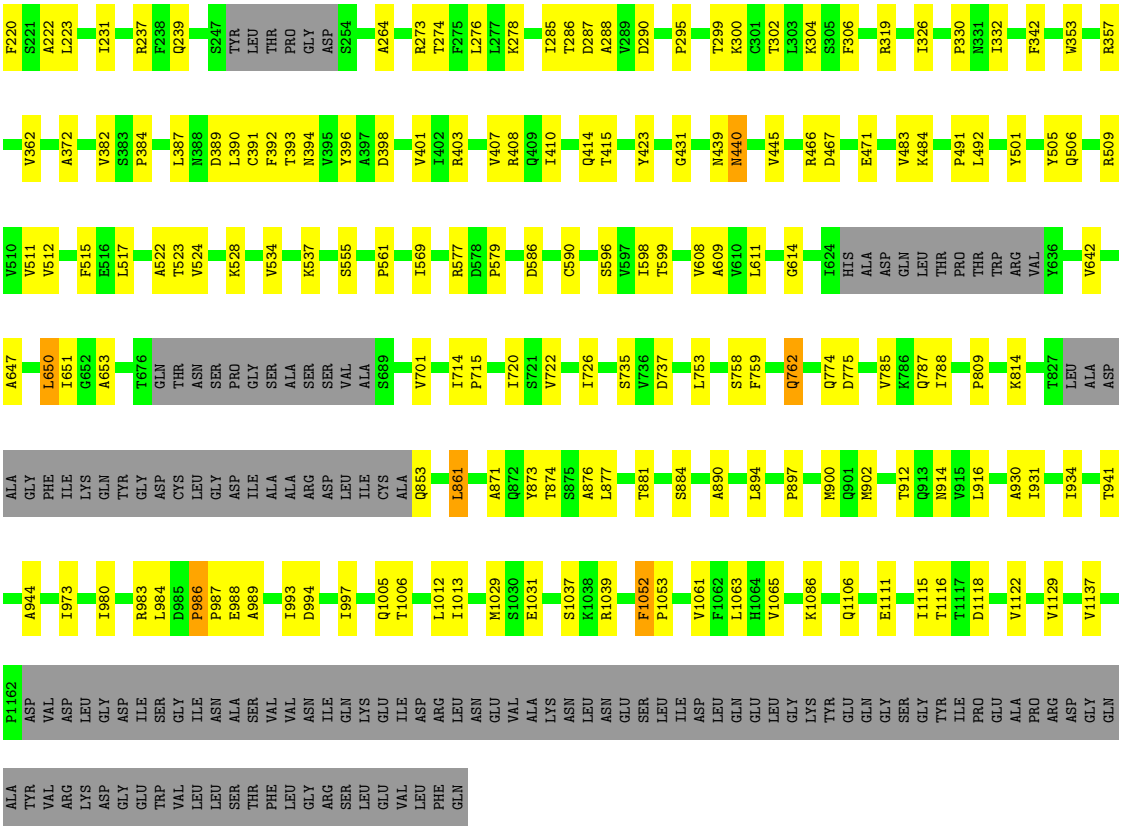
Chain 17-B:



• Molecule 1: Spike glycoprotein,Fibritin

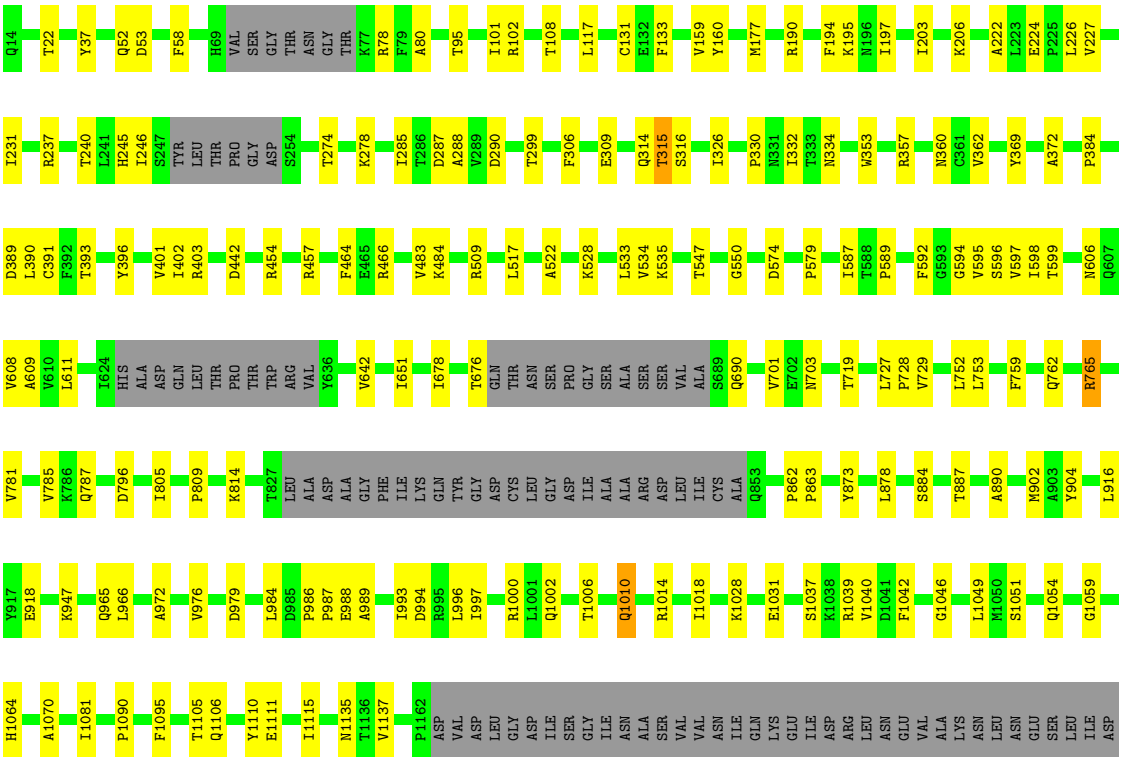
Chain 17-C:

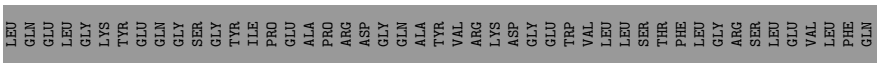




• Molecule 1: Spike glycoprotein,Fibritin

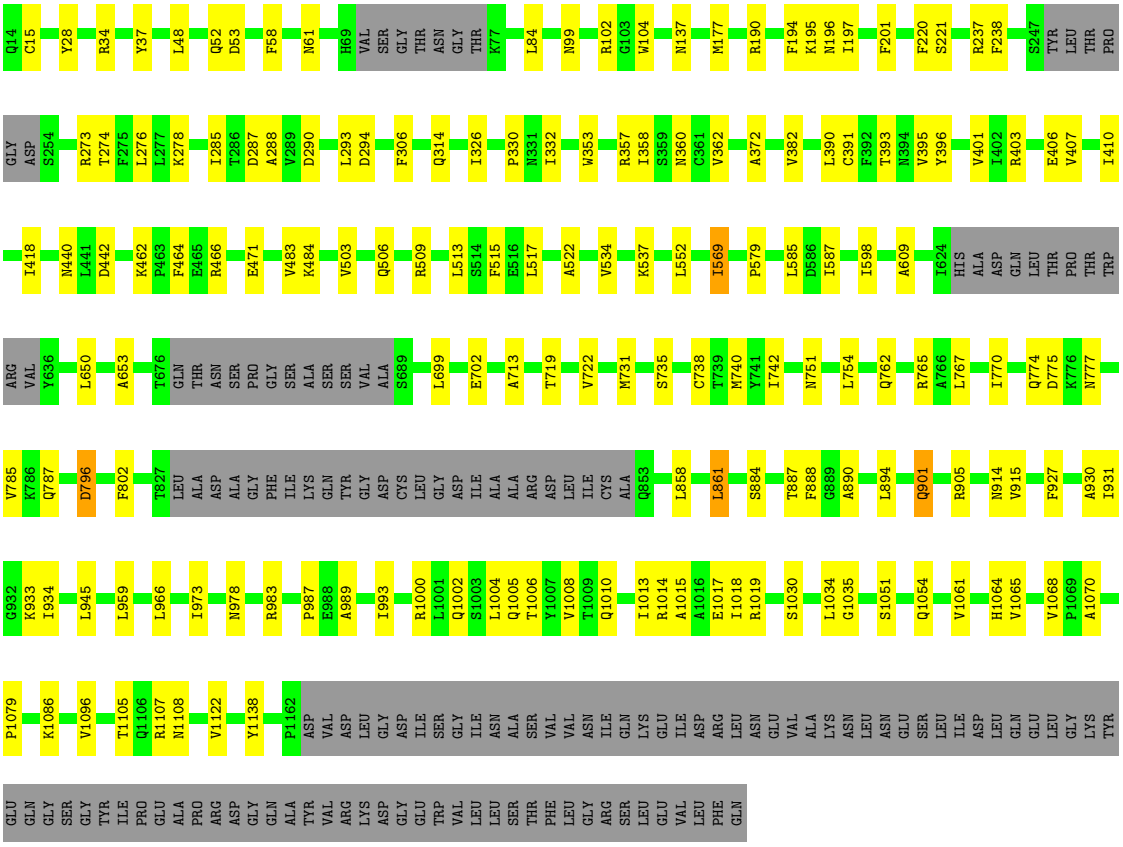
Chain 18-A:





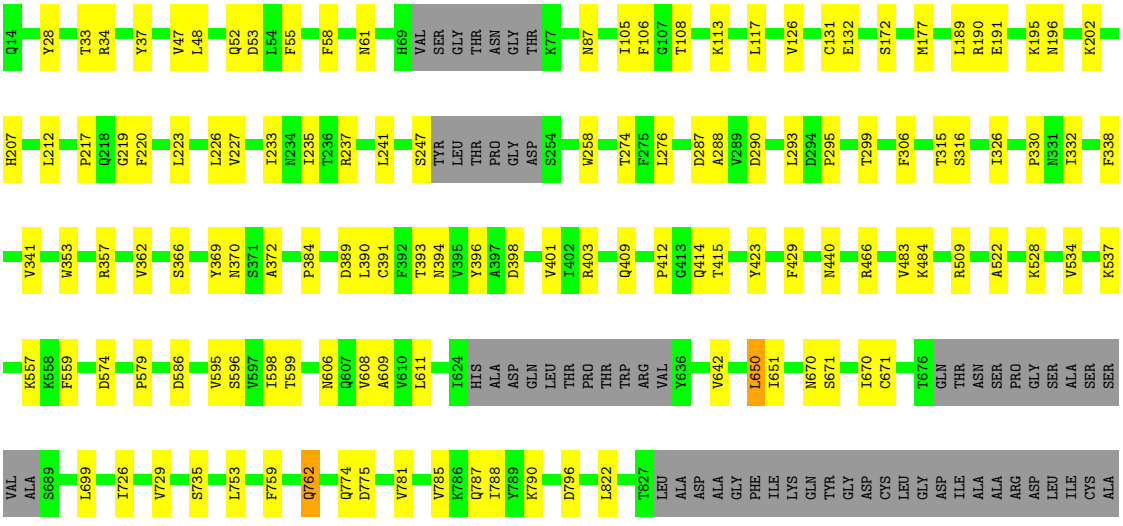
• Molecule 1: Spike glycoprotein,Fibritin

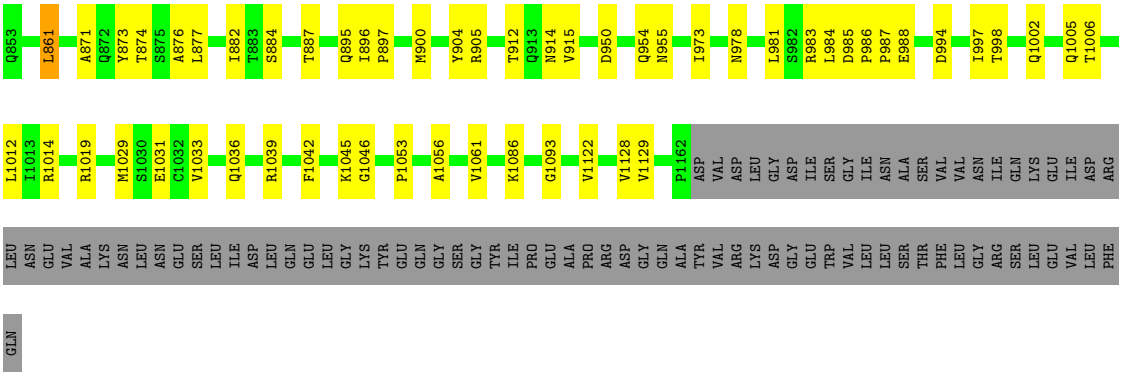
Chain 18-B:



• Molecule 1: Spike glycoprotein,Fibritin

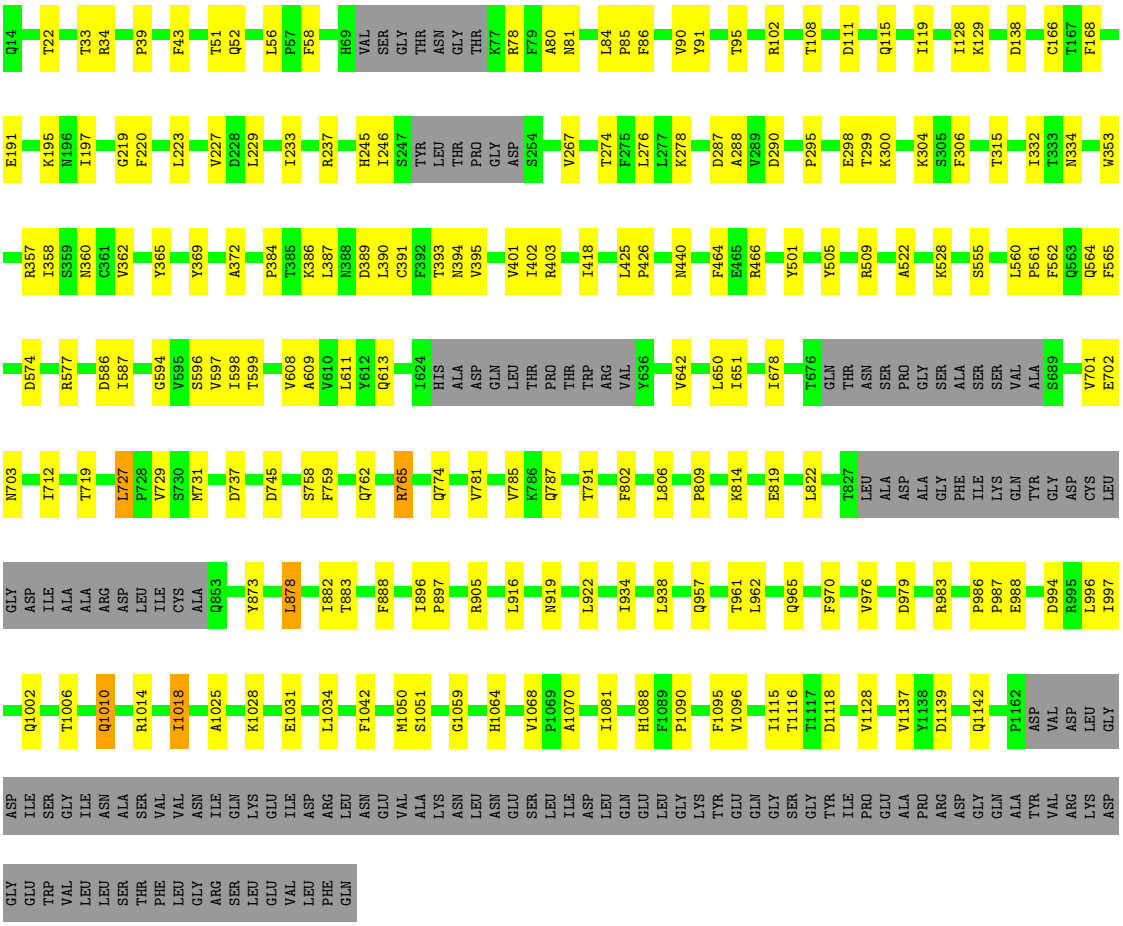
Chain 18-C:





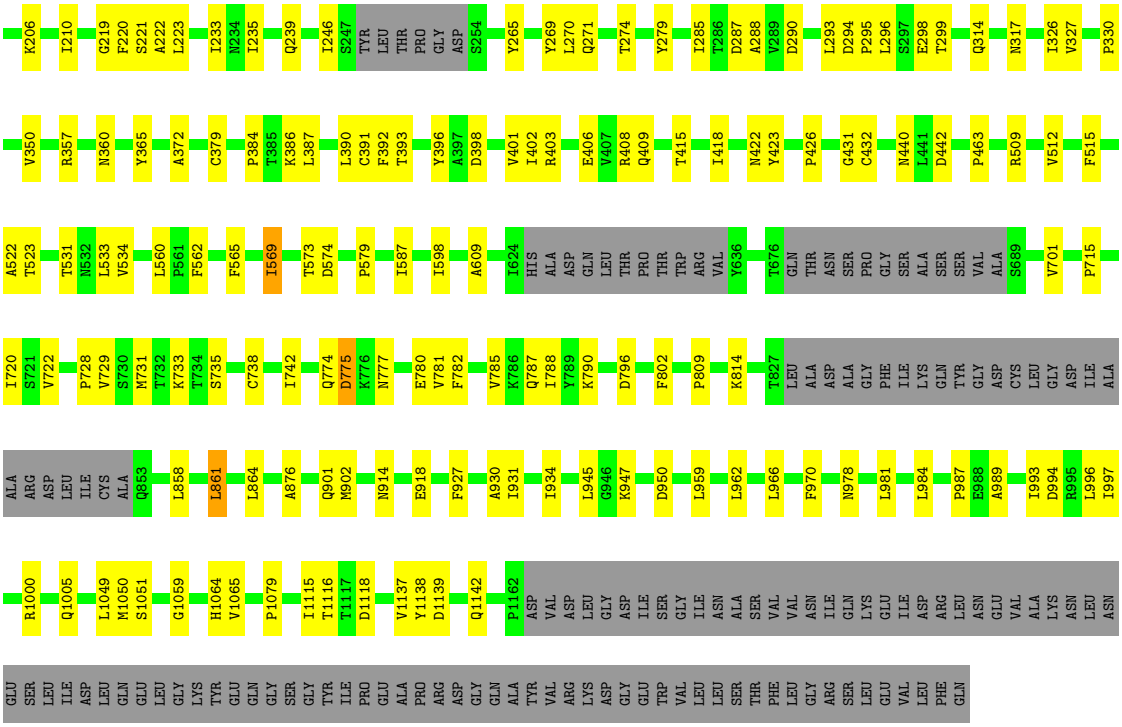
• Molecule 1: Spike glycoprotein,Fibritin

Chain 19-A:



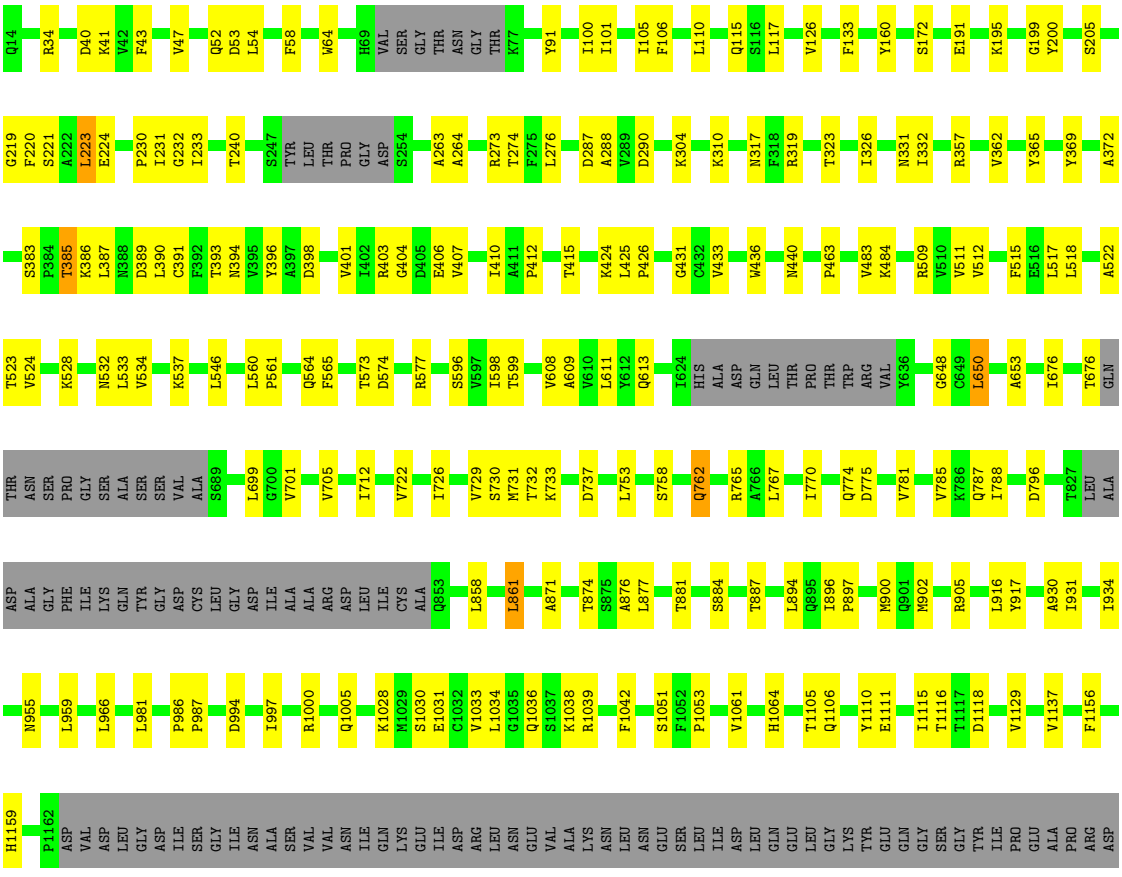
• Molecule 1: Spike glycoprotein,Fibritin

Chain 19-B:



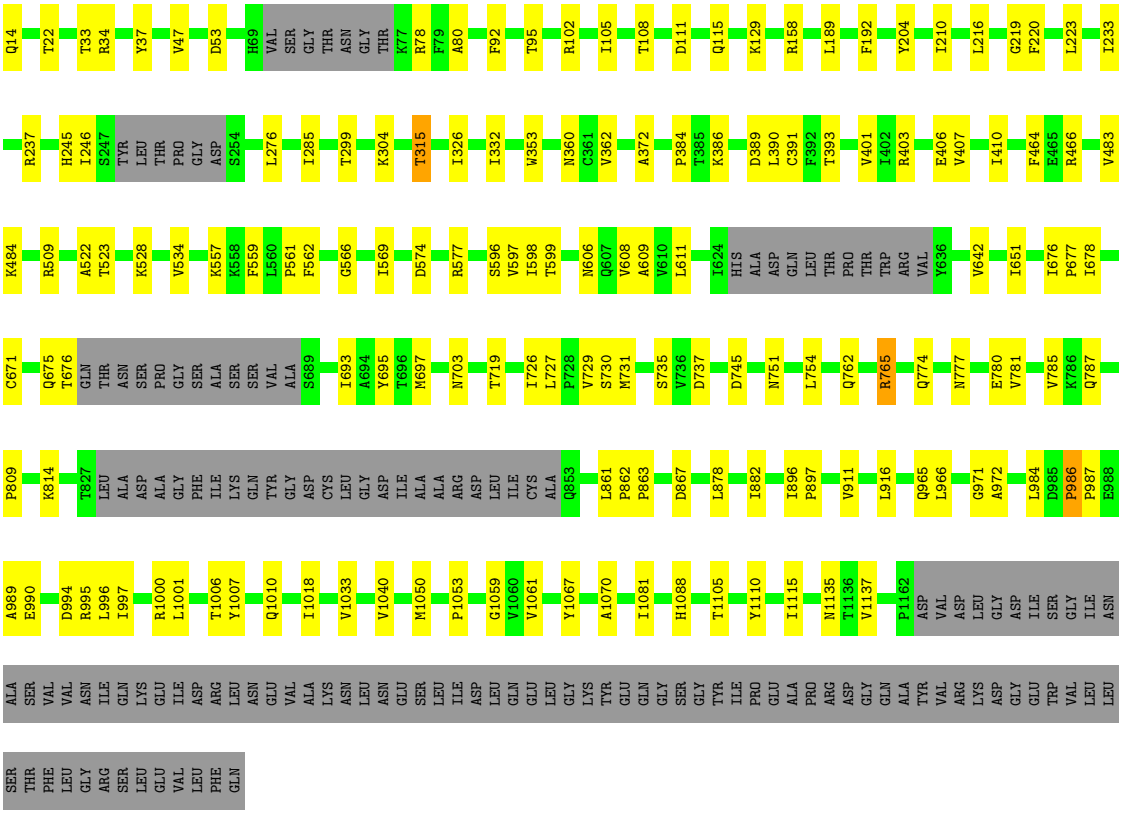
• Molecule 1: Spike glycoprotein,Fibritin

Chain 19-C:



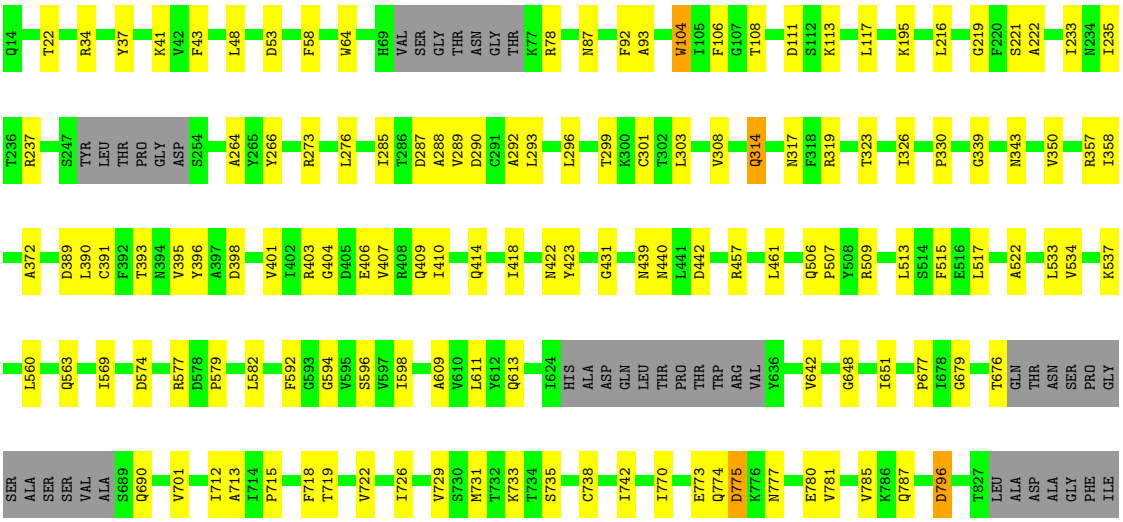
• Molecule 1: Spike glycoprotein,Fibritin

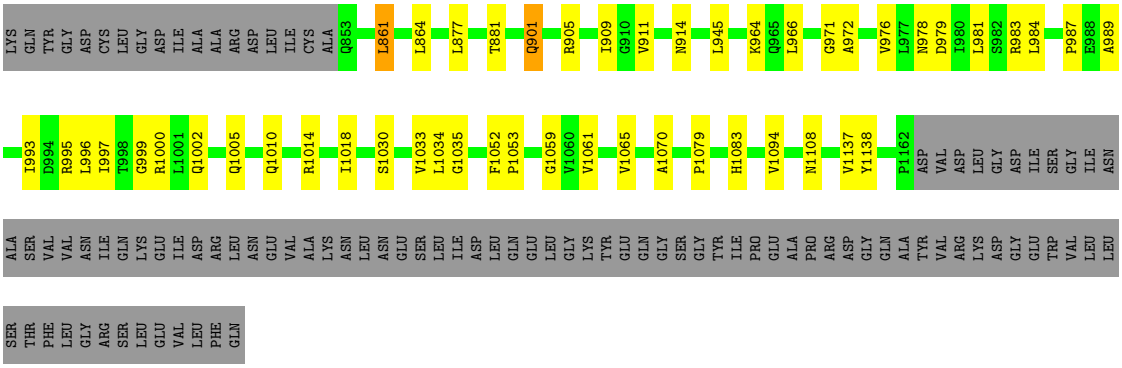
Chain 20-A:



• Molecule 1: Spike glycoprotein,Fibritin

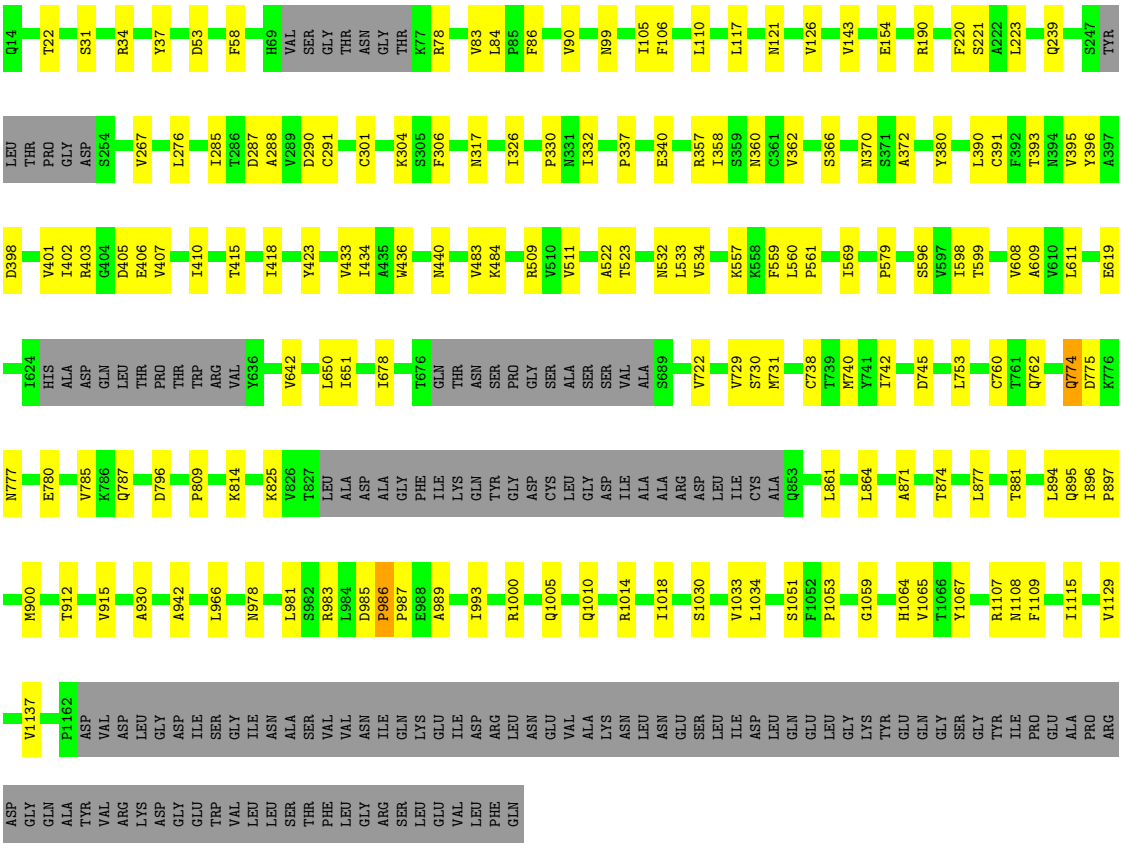
Chain 20-B:





• Molecule 1: Spike glycoprotein,Fibritin

Chain 20-C:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	309062	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)	1500	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	81000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.384	Depositor
Minimum map value	-0.335	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.057	Depositor
Recommended contour level	0.15	Depositor
Map size (Å)	313.6, 313.6, 313.6	wwPDB
Map dimensions	224, 224, 224	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.4, 1.4, 1.4	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	1-A	0.08	0/8652	0.25	1/11768 (0.0%)
1	1-B	0.09	0/8652	0.26	0/11768
1	1-C	0.08	0/8652	0.25	1/11768 (0.0%)
1	2-A	0.08	0/8652	0.25	1/11768 (0.0%)
1	2-B	0.09	0/8652	0.26	0/11768
1	2-C	0.08	0/8652	0.25	1/11768 (0.0%)
1	3-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	3-B	0.09	0/8695	0.27	0/11829
1	3-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	4-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	4-B	0.09	0/8695	0.27	0/11829
1	4-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	5-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	5-B	0.09	0/8695	0.27	0/11829
1	5-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	6-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	6-B	0.09	0/8695	0.27	0/11829
1	6-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	7-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	7-B	0.09	0/8695	0.27	0/11829
1	7-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	8-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	8-B	0.09	0/8695	0.27	0/11829
1	8-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	9-A	0.08	0/8652	0.25	1/11768 (0.0%)
1	9-B	0.09	0/8652	0.26	0/11768
1	9-C	0.08	0/8652	0.25	1/11768 (0.0%)
1	10-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	10-B	0.09	0/8695	0.27	0/11829
1	10-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	11-A	0.08	0/8652	0.25	1/11768 (0.0%)
1	11-B	0.09	0/8652	0.26	0/11768
1	11-C	0.08	0/8652	0.25	1/11768 (0.0%)
1	12-A	0.09	0/8695	0.25	1/11829 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	12-B	0.09	0/8695	0.27	0/11829
1	12-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	13-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	13-B	0.09	0/8695	0.27	0/11829
1	13-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	14-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	14-B	0.09	0/8695	0.27	0/11829
1	14-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	15-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	15-B	0.09	0/8695	0.27	0/11829
1	15-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	16-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	16-B	0.09	0/8695	0.27	0/11829
1	16-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	17-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	17-B	0.09	0/8695	0.27	0/11829
1	17-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	18-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	18-B	0.09	0/8695	0.27	0/11829
1	18-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	19-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	19-B	0.09	0/8695	0.27	0/11829
1	19-C	0.09	0/8695	0.26	1/11829 (0.0%)
1	20-A	0.09	0/8695	0.25	1/11829 (0.0%)
1	20-B	0.09	0/8695	0.27	0/11829
1	20-C	0.09	0/8695	0.26	1/11829 (0.0%)
All	All	0.09	0/521184	0.26	40/709008 (0.0%)

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
1	1-B	0	1
1	1-C	0	2
1	2-C	0	1
1	8-B	0	1
1	10-B	0	1
1	11-C	0	1
1	17-C	0	1
1	20-B	0	1
All	All	0	9

There are no bond length outliers.

All (40) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	2-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	3-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	4-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	5-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	6-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	7-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	8-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	9-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	10-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	11-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	12-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	13-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	14-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	15-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	16-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	17-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	18-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	19-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	20-A	986	PRO	N-CA-C	5.63	117.57	110.70
1	1-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	2-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	3-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	4-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	5-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	6-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	7-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	8-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	9-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	10-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	11-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	12-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	13-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	14-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	15-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	16-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	17-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	18-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	19-C	986	PRO	N-CA-C	5.04	116.85	110.70
1	20-C	986	PRO	N-CA-C	5.04	116.85	110.70

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1-B	338	PHE	Sidechain
1	1-C	590	CYS	Peptide
1	1-C	592	PHE	Peptide
1	10-B	985	ASP	Sidechain
1	11-C	318	PHE	Peptide
1	17-C	1052	PHE	Sidechain
1	2-C	595	VAL	Peptide
1	20-B	1052	PHE	Sidechain
1	8-B	87	ASN	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	1-A	8454	0	8246	125	0
1	1-B	8454	0	8246	118	0
1	1-C	8454	0	8248	121	0
1	2-A	8454	0	8246	104	0
1	2-B	8454	0	8246	122	0
1	2-C	8454	0	8248	110	0
1	3-A	8494	0	8289	113	0
1	3-B	8494	0	8289	100	0
1	3-C	8494	0	8289	117	0
1	4-A	8494	0	8289	144	0
1	4-B	8494	0	8289	142	0
1	4-C	8494	0	8289	127	0
1	5-A	8494	0	8289	142	0
1	5-B	8494	0	8289	113	0
1	5-C	8494	0	8289	128	0
1	6-A	8494	0	8289	120	0
1	6-B	8494	0	8289	106	0
1	6-C	8494	0	8289	121	0
1	7-A	8494	0	8289	120	0
1	7-B	8494	0	8289	115	0
1	7-C	8494	0	8289	116	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	8-A	8494	0	8289	105	0
1	8-B	8494	0	8289	125	0
1	8-C	8494	0	8289	128	0
1	9-A	8454	0	8246	120	0
1	9-B	8454	0	8246	129	0
1	9-C	8454	0	8248	130	0
1	10-A	8494	0	8289	118	0
1	10-B	8494	0	8289	93	0
1	10-C	8494	0	8289	109	0
1	11-A	8454	0	8246	104	0
1	11-B	8454	0	8246	98	0
1	11-C	8454	0	8248	116	0
1	12-A	8494	0	8289	120	0
1	12-B	8494	0	8289	120	0
1	12-C	8494	0	8289	116	0
1	13-A	8494	0	8289	124	0
1	13-B	8494	0	8289	114	0
1	13-C	8494	0	8289	123	0
1	14-A	8494	0	8289	116	0
1	14-B	8494	0	8289	96	0
1	14-C	8494	0	8289	126	0
1	15-A	8494	0	8289	113	0
1	15-B	8494	0	8289	112	0
1	15-C	8494	0	8289	125	0
1	16-A	8494	0	8289	124	0
1	16-B	8494	0	8289	102	0
1	16-C	8494	0	8289	117	0
1	17-A	8494	0	8289	129	0
1	17-B	8494	0	8289	117	0
1	17-C	8494	0	8289	130	0
1	18-A	8494	0	8289	105	0
1	18-B	8494	0	8289	103	0
1	18-C	8494	0	8289	119	0
1	19-A	8494	0	8289	121	0
1	19-B	8494	0	8289	110	0
1	19-C	8494	0	8289	129	0
1	20-A	8494	0	8289	90	0
1	20-B	8494	0	8289	113	0
1	20-C	8494	0	8289	96	0
All	All	509160	0	496832	6472	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 6.

All (6472) 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:C:320:VAL:C	1:C:321:GLN:N	1.70	1.50
1:A:14:GLN:HE21	1:A:14:GLN:N	1.41	1.18
1:C:853:GLN:N	1:C:853:GLN:HE21	1.62	0.97
1:C:353:TRP:HE1	1:C:466:ARG:HB2	1.41	0.84
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.44	0.81
1:B:237:ARG:HH12	1:B:239:GLN:HG3	1.46	0.81
1:A:552:LEU:HB3	1:A:585:LEU:HD12	1.63	0.81
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.46	0.80
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.44	0.80
1:C:353:TRP:HE1	1:C:466:ARG:HB2	1.47	0.80
1:C:730:SER:HB2	1:C:774:GLN:HE22	1.47	0.80
1:B:749:CYS:O	1:B:753:LEU:HB2	1.83	0.79
1:A:955:ASN:HD22	1:A:955:ASN:C	1.89	0.79
1:A:14:GLN:N	1:A:14:GLN:NE2	2.27	0.77
1:C:214:ARG:HE	1:C:215:GLY:H	1.31	0.77
1:C:778:THR:O	1:C:782:PHE:HB2	1.85	0.76
1:C:714:ILE:HD12	1:C:715:PRO:HD2	1.68	0.76
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.68	0.75
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.67	0.75
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.51	0.75
1:C:984:LEU:HD11	1:C:988:GLU:HB2	1.68	0.74
1:C:762:GLN:HA	1:C:765:ARG:HE	1.52	0.74
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.70	0.74
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.69	0.74
1:B:384:PRO:HA	1:B:387:LEU:HD22	1.70	0.74
1:C:853:GLN:N	1:C:853:GLN:NE2	2.34	0.74
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.53	0.74
1:B:714:ILE:HD12	1:B:715:PRO:HD2	1.70	0.74
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.70	0.74
1:A:562:PHE:O	1:B:41:LYS:NZ	2.21	0.73
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.53	0.73
1:A:1128:VAL:HG21	1:B:918:GLU:HG3	1.70	0.73
1:B:384:PRO:HA	1:B:387:LEU:HG	1.71	0.73
1:C:611:LEU:HD22	1:C:678:ILE:HD11	1.69	0.73
1:B:408:ARG:HH22	1:B:409:GLN:HE21	1.36	0.73
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.54	0.72
1:C:1030:SER:HA	1:C:1034:LEU:HD23	1.71	0.72
1:B:611:LEU:HD22	1:B:678:ILE:HD11	1.70	0.72
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.71	0.72
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:PRO:HA	1:A:298:GLU:HG2	1.71	0.72
1:B:312:ILE:HD11	1:B:596:SER:HB3	1.71	0.72
1:C:778:THR:O	1:C:782:PHE:HB2	1.90	0.72
1:C:353:TRP:HE1	1:C:355:ARG:HD3	1.55	0.72
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.54	0.72
1:A:43:PHE:O	1:C:567:ARG:NH2	2.23	0.72
1:C:984:LEU:HD11	1:C:988:GLU:HB2	1.72	0.72
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.54	0.72
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.53	0.72
1:A:177:MET:HE1	1:A:190:ARG:HH12	1.55	0.71
1:B:722:VAL:HG12	1:B:1065:VAL:HG12	1.72	0.71
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.54	0.71
1:C:983:ARG:HG3	1:C:984:LEU:HD22	1.72	0.71
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.72	0.71
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.71	0.71
1:B:517:LEU:HD23	1:B:518:LEU:HB2	1.73	0.71
1:C:611:LEU:HD22	1:C:678:ILE:HD11	1.72	0.71
1:B:439:ASN:ND2	1:B:506:GLN:OE1	2.24	0.71
1:A:735:SER:HB3	1:A:861:LEU:HD21	1.73	0.71
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.73	0.71
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.56	0.71
1:B:117:LEU:HD21	1:B:231:ILE:HG21	1.73	0.71
1:A:745:ASP:OD1	1:C:319:ARG:NH1	2.24	0.71
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.73	0.71
1:A:984:LEU:HD11	1:A:988:GLU:HB2	1.73	0.71
1:A:727:LEU:HD11	1:A:1025:ALA:HB2	1.72	0.71
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.73	0.71
1:A:562:PHE:O	1:B:41:LYS:NZ	2.25	0.70
1:A:904:TYR:HB3	1:C:1107:ARG:HH22	1.55	0.70
1:B:727:LEU:HD11	1:B:1025:ALA:HB2	1.74	0.70
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.72	0.70
1:A:762:GLN:HA	1:A:765:ARG:HE	1.56	0.70
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.73	0.70
1:C:611:LEU:HD22	1:C:678:ILE:HD11	1.71	0.70
1:C:611:LEU:HD22	1:C:678:ILE:HD11	1.74	0.70
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.73	0.70
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.74	0.70
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.72	0.70
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.73	0.70
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.74	0.70
1:C:560:LEU:HD12	1:C:561:PRO:HD2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:439:ASN:HD21	1:B:506:GLN:HB3	1.56	0.70
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.74	0.70
1:B:517:LEU:HD11	1:C:983:ARG:HH11	1.56	0.70
1:B:735:SER:HB3	1:B:861:LEU:HD21	1.73	0.70
1:B:395:VAL:HG13	1:B:513:LEU:HD11	1.73	0.69
1:C:353:TRP:HE1	1:C:466:ARG:HB2	1.57	0.69
1:C:523:THR:HG23	1:C:524:VAL:HG23	1.74	0.69
1:C:393:THR:HA	1:C:522:ALA:HA	1.73	0.69
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.55	0.69
1:A:517:LEU:HD23	1:A:518:LEU:HB2	1.73	0.69
1:A:384:PRO:HA	1:A:387:LEU:HD22	1.72	0.69
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.74	0.69
1:A:517:LEU:HD23	1:A:518:LEU:HB2	1.73	0.69
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.73	0.69
1:A:117:LEU:HD21	1:A:231:ILE:HG21	1.74	0.69
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.56	0.69
1:A:1123:SER:OG	1:B:914:ASN:ND2	2.26	0.69
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.73	0.69
1:B:611:LEU:HD22	1:B:678:ILE:HD11	1.73	0.69
1:B:598:ILE:HD11	1:B:678:ILE:HD13	1.75	0.69
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.57	0.69
1:A:598:ILE:HD11	1:A:664:ILE:HD12	1.75	0.69
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.57	0.69
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.75	0.69
1:A:61:ASN:HD22	1:A:61:ASN:C	2.01	0.69
1:B:1052:PHE:HB2	1:B:1063:LEU:HB2	1.75	0.69
1:C:290:ASP:HB3	1:C:293:LEU:HD23	1.74	0.69
1:B:735:SER:HB3	1:B:861:LEU:HD21	1.75	0.69
1:B:662:CYS:HB2	1:B:697:MET:HG2	1.75	0.69
1:A:61:ASN:HD22	1:A:61:ASN:C	2.01	0.69
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.57	0.69
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.74	0.69
1:A:984:LEU:HD12	1:A:988:GLU:HG2	1.74	0.69
1:C:276:LEU:HD11	1:C:304:LYS:HA	1.76	0.68
1:A:755:GLN:NE2	1:C:969:ASN:OD1	2.22	0.68
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.73	0.68
1:C:312:ILE:HD12	1:C:598:ILE:HD12	1.75	0.68
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.58	0.68
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.74	0.68
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.75	0.68
1:A:969:ASN:HD21	1:B:755:GLN:HB2	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:884:SER:HB3	1:C:887:THR:HB	1.75	0.68
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.76	0.68
1:C:770:ILE:O	1:C:774:GLN:HB3	1.94	0.68
1:B:237:ARG:HD2	1:B:238:PHE:H	1.59	0.68
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.76	0.68
1:A:688:THR:HA	1:A:690:GLN:HG2	1.76	0.68
1:A:113:LYS:HD3	1:C:483:VAL:HA	1.76	0.68
1:C:806:LEU:HD12	1:C:807:PRO:HD2	1.73	0.68
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.66	0.68
1:C:714:ILE:HD12	1:C:715:PRO:HD2	1.75	0.68
1:B:713:ALA:HB2	1:C:895:GLN:HG2	1.76	0.68
1:B:403:ARG:HG3	1:B:406:GLU:HG2	1.75	0.68
1:B:611:LEU:HD22	1:B:678:ILE:HD11	1.75	0.68
1:B:14:GLN:N	1:B:255:SER:HG	1.91	0.68
1:B:562:PHE:O	1:C:41:LYS:NZ	2.28	0.67
1:B:897:PRO:HG2	1:B:900:MET:HG2	1.75	0.67
1:A:43:PHE:H	1:C:567:ARG:HH12	1.41	0.67
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.58	0.67
1:C:100:ILE:HD12	1:C:263:ALA:HB2	1.76	0.67
1:A:360:ASN:H	1:A:523:THR:HB	1.60	0.67
1:C:983:ARG:HG3	1:C:984:LEU:HD22	1.74	0.67
1:C:1010:GLN:HE22	1:C:1014:ARG:HH22	1.42	0.67
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.74	0.67
1:B:670:ASN:C	1:B:670:ASN:HD22	2.01	0.67
1:A:984:LEU:HD13	1:A:988:GLU:HG2	1.77	0.67
1:A:102:ARG:HE	1:A:246:ILE:HD11	1.59	0.67
1:C:196:ASN:HD22	1:C:235:ILE:HG12	1.59	0.67
1:B:1052:PHE:HB2	1:B:1063:LEU:HB2	1.77	0.67
1:C:320:VAL:C	1:C:321:GLN:CA	2.67	0.67
1:C:736:VAL:O	1:C:764:ASN:ND2	2.27	0.67
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.76	0.67
1:A:564:GLN:H	1:B:41:LYS:HZ2	1.40	0.67
1:A:889:GLY:HA3	1:A:1034:LEU:HD21	1.76	0.67
1:B:727:LEU:HD11	1:B:1025:ALA:HB2	1.75	0.67
1:A:226:LEU:HG	1:A:227:VAL:HG23	1.77	0.67
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.60	0.67
1:A:984:LEU:HB2	1:A:989:ALA:HB2	1.75	0.67
1:C:195:LYS:HE3	1:C:202:LYS:HD3	1.77	0.67
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.59	0.67
1:B:1040:VAL:HG11	1:C:1035:GLY:HA3	1.76	0.67
1:C:193:VAL:HG22	1:C:223:LEU:HD23	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:767:LEU:HD13	1:B:770:ILE:HD11	1.77	0.67
1:C:393:THR:HA	1:C:522:ALA:HA	1.77	0.67
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.77	0.67
1:B:520:ALA:HA	1:C:41:LYS:HE2	1.76	0.67
1:B:731:MET:H	1:B:774:GLN:HE21	1.43	0.67
1:C:670:ASN:C	1:C:670:ASN:HD22	2.01	0.67
1:B:901:GLN:NE2	1:B:1050:MET:SD	2.68	0.67
1:C:907:ASN:C	1:C:907:ASN:HD22	2.02	0.67
1:B:393:THR:HA	1:B:522:ALA:HA	1.77	0.67
1:B:563:GLN:HE21	1:B:563:GLN:HA	1.60	0.67
1:A:762:GLN:HA	1:A:765:ARG:HE	1.59	0.67
1:A:206:LYS:HD3	1:A:223:LEU:HA	1.77	0.67
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.59	0.67
1:C:319:ARG:HH22	1:C:590:CYS:HB2	1.60	0.67
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.77	0.67
1:C:965:GLN:HE21	1:C:965:GLN:HA	1.59	0.66
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.77	0.66
1:A:735:SER:HB3	1:A:861:LEU:HD21	1.76	0.66
1:A:369:TYR:HH	1:C:415:THR:HG1	1.41	0.66
1:C:126:VAL:HG22	1:C:172:SER:HB3	1.77	0.66
1:A:755:GLN:HE22	1:C:971:GLY:HA2	1.59	0.66
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.78	0.66
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.78	0.66
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.77	0.66
1:A:1002:GLN:HE22	1:B:759:PHE:HE2	1.44	0.66
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.76	0.66
1:C:740:MET:HE1	1:C:857:GLY:HA3	1.78	0.66
1:C:35:GLY:HA3	1:C:56:LEU:HD13	1.78	0.66
1:C:82:PRO:O	1:C:239:GLN:NE2	2.28	0.66
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.78	0.66
1:A:552:LEU:HB3	1:A:585:LEU:HD23	1.78	0.66
1:A:1123:SER:OG	1:B:914:ASN:ND2	2.29	0.66
1:C:733:LYS:HD3	1:C:771:ALA:HB1	1.78	0.66
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.78	0.66
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.76	0.66
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.78	0.66
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.78	0.66
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.76	0.66
1:A:688:THR:HA	1:A:690:GLN:HG2	1.78	0.66
1:B:393:THR:HA	1:B:522:ALA:HA	1.78	0.66
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.77	0.66
1:C:714:ILE:HD12	1:C:715:PRO:HD2	1.77	0.66
1:B:722:VAL:HG22	1:B:1065:VAL:HG12	1.78	0.66
1:B:727:LEU:HD11	1:B:1025:ALA:HB2	1.77	0.65
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.78	0.65
1:A:369:TYR:HH	1:C:415:THR:HG1	1.41	0.65
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.77	0.65
1:B:393:THR:HA	1:B:522:ALA:HA	1.78	0.65
1:A:372:ALA:O	1:C:403:ARG:NH2	2.28	0.65
1:B:735:SER:HB3	1:B:861:LEU:HD21	1.78	0.65
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.78	0.65
1:A:129:LYS:NZ	1:A:168:PHE:O	2.26	0.65
1:A:195:LYS:HE2	1:A:197:ILE:HD11	1.79	0.65
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.77	0.65
1:B:560:LEU:HD12	1:B:561:PRO:HD2	1.76	0.65
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.79	0.65
1:C:353:TRP:HE1	1:C:466:ARG:HB2	1.61	0.65
1:C:106:PHE:HB3	1:C:235:ILE:HG12	1.77	0.65
1:A:992:GLN:OE1	1:A:995:ARG:NH2	2.29	0.65
1:A:1002:GLN:NE2	1:B:1005:GLN:OE1	2.28	0.65
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.79	0.65
1:B:606:ASN:C	1:B:606:ASN:HD22	2.04	0.65
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.77	0.65
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.79	0.65
1:B:770:ILE:O	1:B:774:GLN:HB2	1.97	0.65
1:C:119:ILE:HG22	1:C:128:ILE:HG13	1.77	0.65
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.60	0.65
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.30	0.65
1:A:31:SER:HB3	1:A:34:ARG:HB2	1.79	0.65
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.79	0.65
1:A:521:PRO:HG2	1:B:200:TYR:HE1	1.62	0.65
1:A:129:LYS:NZ	1:A:166:CYS:SG	2.70	0.65
1:C:239:GLN:NE2	1:C:240:THR:O	2.30	0.65
1:A:1046:GLY:HA2	1:B:890:ALA:HA	1.79	0.65
1:C:1028:LYS:O	1:C:1032:CYS:HB2	1.96	0.65
1:A:129:LYS:NZ	1:A:166:CYS:SG	2.69	0.65
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.78	0.65
1:A:735:SER:HB3	1:A:861:LEU:HD21	1.79	0.65
1:B:725:GLU:OE2	1:B:1064:HIS:NE2	2.30	0.65
1:B:971:GLY:HA3	1:B:995:ARG:HH12	1.62	0.65
1:B:971:GLY:HA3	1:B:995:ARG:HH22	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.79	0.65
1:C:437:ASN:OD1	1:C:439:ASN:ND2	2.30	0.65
1:C:177:MET:SD	1:C:190:ARG:NH2	2.70	0.65
1:A:372:ALA:O	1:C:403:ARG:NH2	2.29	0.65
1:B:403:ARG:NH2	1:C:372:ALA:O	2.30	0.65
1:B:562:PHE:O	1:C:41:LYS:NZ	2.30	0.65
1:A:774:GLN:HE22	1:A:1018:ILE:HG21	1.62	0.65
1:A:715:PRO:HD3	1:B:894:LEU:HD21	1.77	0.64
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.79	0.64
1:C:353:TRP:HE1	1:C:466:ARG:HB2	1.61	0.64
1:B:611:LEU:HD22	1:B:666:ILE:HD11	1.78	0.64
1:C:742:ILE:HD11	1:C:997:ILE:HA	1.79	0.64
1:C:393:THR:HA	1:C:522:ALA:HA	1.78	0.64
1:A:117:LEU:HD11	1:A:231:ILE:HG21	1.79	0.64
1:A:117:LEU:HD11	1:A:231:ILE:HG12	1.80	0.64
1:B:393:THR:HA	1:B:522:ALA:HA	1.79	0.64
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.80	0.64
1:C:884:SER:HB3	1:C:887:THR:HB	1.79	0.64
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.79	0.64
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.79	0.64
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.77	0.64
1:A:53:ASP:OD1	1:A:54:LEU:N	2.30	0.64
1:B:564:GLN:HG2	1:B:577:ARG:HD2	1.78	0.64
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.79	0.64
1:A:762:GLN:HA	1:A:765:ARG:HE	1.62	0.64
1:A:200:TYR:O	1:A:202:LYS:NZ	2.31	0.64
1:B:353:TRP:O	1:B:466:ARG:NH2	2.31	0.64
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.78	0.64
1:A:493:GLN:NE2	1:A:494:SER:O	2.30	0.64
1:A:984:LEU:HB3	1:A:989:ALA:HB2	1.77	0.64
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.80	0.64
1:C:34:ARG:NH1	1:C:191:GLU:OE1	2.30	0.64
1:B:55:PHE:HB2	1:B:273:ARG:HB2	1.80	0.64
1:B:403:ARG:NH2	1:C:372:ALA:O	2.29	0.64
1:A:726:ILE:HD13	1:A:1061:VAL:HG22	1.78	0.64
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.79	0.64
1:B:64:TRP:HE1	1:B:264:ALA:HB1	1.62	0.64
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	1.78	0.64
1:C:560:LEU:HD12	1:C:561:PRO:HD2	1.80	0.64
1:B:130:VAL:HB	1:B:168:PHE:HB2	1.78	0.64
1:C:598:ILE:HD11	1:C:678:ILE:HD13	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.79	0.64
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.79	0.64
1:B:1031:GLU:HB3	1:B:1037:SER:HB2	1.80	0.64
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.80	0.64
1:C:129:LYS:NZ	1:C:166:CYS:SG	2.63	0.64
1:B:360:ASN:H	1:B:523:THR:HB	1.62	0.64
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.79	0.64
1:A:104:TRP:H	1:A:119:ILE:HB	1.62	0.64
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.79	0.64
1:B:403:ARG:HB2	1:B:495:TYR:HE2	1.63	0.64
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.63	0.64
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.80	0.64
1:B:735:SER:HB3	1:B:861:LEU:HD21	1.79	0.64
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.80	0.64
1:A:577:ARG:HG3	1:A:584:ILE:HG12	1.78	0.64
1:B:317:ASN:ND2	1:C:737:ASP:OD2	2.31	0.64
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.79	0.64
1:A:598:ILE:HD11	1:A:678:ILE:HD12	1.79	0.63
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.80	0.63
1:B:577:ARG:HG2	1:B:584:ILE:HG12	1.79	0.63
1:C:1106:GLN:HA	1:C:1106:GLN:HE21	1.62	0.63
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.61	0.63
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.79	0.63
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.63	0.63
1:C:83:VAL:HG13	1:C:239:GLN:HE21	1.63	0.63
1:A:894:LEU:HD21	1:C:715:PRO:HD3	1.81	0.63
1:A:1054:GLN:HB2	1:A:1061:VAL:HG23	1.79	0.63
1:A:711:SER:OG	1:B:895:GLN:NE2	2.30	0.63
1:C:302:THR:O	1:C:304:LYS:NZ	2.31	0.63
1:A:908:GLY:O	1:A:1038:LYS:NZ	2.30	0.63
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.80	0.63
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.63	0.63
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.78	0.63
1:C:393:THR:HA	1:C:522:ALA:HA	1.79	0.63
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.80	0.63
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.64	0.63
1:B:714:ILE:HD12	1:B:715:PRO:HD2	1.79	0.63
1:B:897:PRO:HG2	1:B:900:MET:HG2	1.80	0.63
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.64	0.63
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.81	0.63
1:C:762:GLN:HA	1:C:765:ARG:HE	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:736:VAL:O	1:B:764:ASN:ND2	2.31	0.63
1:A:517:LEU:HD11	1:B:983:ARG:HD2	1.81	0.63
1:A:330:PRO:HD3	1:A:544:ASN:HD22	1.63	0.63
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.79	0.63
1:A:81:ASN:O	1:A:239:GLN:NE2	2.31	0.63
1:B:577:ARG:HH21	1:B:582:LEU:HD12	1.64	0.63
1:B:914:ASN:N	1:B:914:ASN:HD22	1.94	0.63
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.79	0.63
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.81	0.63
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.62	0.63
1:A:598:ILE:HD11	1:A:678:ILE:HD12	1.79	0.63
1:C:941:THR:HG23	1:C:944:ALA:HB2	1.79	0.63
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.62	0.63
1:A:394:ASN:ND2	1:B:200:TYR:OH	2.31	0.63
1:C:393:THR:HA	1:C:522:ALA:HA	1.81	0.63
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	1.79	0.63
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.81	0.63
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.80	0.63
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.80	0.63
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.80	0.63
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.23	0.63
1:A:278:LYS:NZ	1:A:286:THR:OG1	2.30	0.63
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.64	0.63
1:C:1043:CYS:O	1:C:1064:HIS:ND1	2.31	0.63
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.63	0.63
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.80	0.63
1:B:360:ASN:H	1:B:523:THR:HB	1.64	0.63
1:A:752:LEU:HD22	1:A:993:ILE:HD12	1.80	0.63
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.81	0.63
1:B:64:TRP:HE1	1:B:264:ALA:HB1	1.63	0.63
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.81	0.63
1:A:393:THR:HA	1:A:522:ALA:HA	1.80	0.63
1:A:719:THR:HG22	1:A:1070:ALA:HB2	1.81	0.63
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.80	0.62
1:B:707:TYR:HD2	1:C:792:PRO:HG3	1.64	0.62
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.81	0.62
1:A:983:ARG:HH21	1:C:517:LEU:HD21	1.63	0.62
1:C:1030:SER:HA	1:C:1034:LEU:HD23	1.81	0.62
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.81	0.62
1:A:735:SER:HB3	1:A:861:LEU:HD21	1.80	0.62
1:B:517:LEU:HD11	1:C:983:ARG:HH11	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:102:ARG:HH21	1:B:246:ILE:HG12	1.64	0.62
1:B:984:LEU:HB2	1:B:989:ALA:HB2	1.80	0.62
1:A:1010:GLN:OE1	1:A:1014:ARG:NH1	2.30	0.62
1:C:606:ASN:HD22	1:C:606:ASN:C	2.06	0.62
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.62	0.62
1:A:234:ASN:ND2	1:C:465:GLU:OE1	2.32	0.62
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.81	0.62
1:A:372:ALA:O	1:C:403:ARG:NH2	2.30	0.62
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.81	0.62
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	1.81	0.62
1:C:866:THR:H	1:C:869:MET:HE2	1.64	0.62
1:C:908:GLY:O	1:C:1038:LYS:NZ	2.31	0.62
1:A:702:GLU:OE2	1:B:790:LYS:NZ	2.32	0.62
1:C:53:ASP:OD1	1:C:54:LEU:N	2.32	0.62
1:B:517:LEU:HD11	1:C:983:ARG:HH11	1.65	0.62
1:C:1031:GLU:HG3	1:C:1039:ARG:HH21	1.64	0.62
1:C:887:THR:HG21	1:C:894:LEU:HG	1.80	0.62
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.82	0.62
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.31	0.62
1:A:877:LEU:HD21	1:A:1029:MET:HE1	1.81	0.62
1:A:226:LEU:HG	1:A:227:VAL:HG23	1.81	0.62
1:C:53:ASP:OD2	1:C:54:LEU:N	2.31	0.62
1:A:984:LEU:HD13	1:A:988:GLU:HG2	1.81	0.62
1:A:403:ARG:NH2	1:B:372:ALA:O	2.31	0.62
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.81	0.62
1:C:229:LEU:HD22	1:C:231:ILE:HD13	1.81	0.62
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.80	0.62
1:C:99:ASN:O	1:C:102:ARG:NH2	2.32	0.62
1:A:763:LEU:HD23	1:A:1004:LEU:HD13	1.81	0.62
1:A:1102:TRP:HD1	1:A:1135:ASN:HD22	1.47	0.62
1:A:314:GLN:HE22	1:A:594:GLY:HA3	1.65	0.62
1:C:1031:GLU:HG3	1:C:1039:ARG:HH21	1.64	0.62
1:A:372:ALA:O	1:C:403:ARG:NH2	2.28	0.62
1:C:897:PRO:HG2	1:C:900:MET:HG2	1.80	0.62
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.81	0.62
1:A:825:LYS:HD3	1:A:945:LEU:HD13	1.81	0.62
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.63	0.62
1:A:521:PRO:HD3	1:B:41:LYS:HE2	1.82	0.62
1:A:369:TYR:HH	1:C:415:THR:HG1	1.46	0.62
1:A:571:ASP:OD1	1:B:975:SER:OG	2.18	0.62
1:A:99:ASN:HB3	1:A:102:ARG:HH12	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.82	0.62
1:C:393:THR:HA	1:C:522:ALA:HA	1.81	0.62
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.81	0.62
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.82	0.62
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.82	0.62
1:C:362:VAL:HG21	1:C:524:VAL:HB	1.81	0.62
1:C:338:PHE:HA	1:C:341:VAL:HG12	1.81	0.62
1:A:393:THR:HA	1:A:522:ALA:HA	1.81	0.62
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.81	0.62
1:A:393:THR:HA	1:A:522:ALA:HA	1.81	0.62
1:B:969:ASN:OD1	1:C:755:GLN:NE2	2.26	0.62
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	1.81	0.62
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.64	0.62
1:A:984:LEU:HB2	1:A:989:ALA:HB2	1.82	0.62
1:A:317:ASN:ND2	1:B:737:ASP:OD2	2.32	0.62
1:A:372:ALA:O	1:C:403:ARG:NH2	2.33	0.62
1:C:555:SER:HB2	1:C:586:ASP:HB2	1.82	0.62
1:C:130:VAL:HG21	1:C:231:ILE:HD11	1.81	0.62
1:B:735:SER:HB3	1:B:861:LEU:HD21	1.80	0.62
1:C:287:ASP:HB2	1:C:306:PHE:HE2	1.65	0.62
1:C:393:THR:HA	1:C:522:ALA:HA	1.82	0.62
1:B:360:ASN:HD22	1:B:360:ASN:C	2.07	0.61
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.81	0.61
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.81	0.61
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.82	0.61
1:A:117:LEU:HD11	1:A:231:ILE:HG12	1.81	0.61
1:C:606:ASN:HD22	1:C:606:ASN:C	2.08	0.61
1:B:393:THR:HA	1:B:522:ALA:HA	1.80	0.61
1:C:1106:GLN:NE2	1:C:1111:GLU:OE1	2.33	0.61
1:C:560:LEU:HD12	1:C:561:PRO:HD2	1.82	0.61
1:A:968:SER:OG	1:B:755:GLN:O	2.18	0.61
1:C:1010:GLN:OE1	1:C:1014:ARG:NH2	2.33	0.61
1:C:1019:ARG:NH2	1:C:1023:ASN:OD1	2.33	0.61
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	1.81	0.61
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.33	0.61
1:A:774:GLN:O	1:A:777:ASN:ND2	2.34	0.61
1:B:735:SER:HB3	1:B:861:LEU:HD21	1.82	0.61
1:A:598:ILE:HD11	1:A:678:ILE:HD12	1.82	0.61
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.81	0.61
1:B:393:THR:HA	1:B:522:ALA:HA	1.81	0.61
1:B:393:THR:HA	1:B:522:ALA:HA	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.82	0.61
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.81	0.61
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.81	0.61
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.82	0.61
1:A:273:ARG:HD2	1:A:292:ALA:HB3	1.82	0.61
1:A:369:TYR:HH	1:C:415:THR:HG1	1.48	0.61
1:A:576:VAL:HG12	1:A:587:ILE:HD11	1.82	0.61
1:C:393:THR:HA	1:C:522:ALA:HA	1.82	0.61
1:B:317:ASN:ND2	1:C:737:ASP:OD2	2.34	0.61
1:C:606:ASN:HD22	1:C:606:ASN:C	2.08	0.61
1:A:730:SER:HA	1:A:774:GLN:HE22	1.64	0.61
1:C:802:PHE:HB3	1:C:806:LEU:HD23	1.81	0.61
1:A:547:THR:O	1:B:978:ASN:ND2	2.34	0.61
1:A:735:SER:HB3	1:A:861:LEU:HD21	1.81	0.61
1:B:319:ARG:HH22	1:C:745:ASP:HA	1.64	0.61
1:A:117:LEU:HD11	1:A:231:ILE:HG21	1.82	0.61
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.33	0.61
1:C:106:PHE:HD1	1:C:235:ILE:HD13	1.65	0.61
1:A:897:PRO:HG2	1:A:900:MET:HG2	1.82	0.61
1:A:992:GLN:OE1	1:A:995:ARG:NH2	2.33	0.61
1:C:393:THR:HA	1:C:522:ALA:HA	1.82	0.61
1:C:105:ILE:HG12	1:C:241:LEU:HD21	1.83	0.61
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.83	0.61
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.81	0.61
1:B:403:ARG:NH2	1:C:372:ALA:O	2.31	0.61
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.82	0.61
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.82	0.61
1:A:887:THR:HB	1:A:894:LEU:HD23	1.83	0.61
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.81	0.61
1:C:858:LEU:HD22	1:C:959:LEU:HD12	1.82	0.61
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	1.83	0.61
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.31	0.61
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.82	0.61
1:C:379:CYS:HA	1:C:432:CYS:HB3	1.83	0.61
1:A:914:ASN:OD1	1:C:1123:SER:OG	2.18	0.61
1:C:99:ASN:O	1:C:102:ARG:NH1	2.33	0.61
1:A:1017:GLU:OE1	1:B:1019:ARG:NH1	2.31	0.61
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.83	0.61
1:C:28:TYR:HB3	1:C:61:ASN:HB3	1.83	0.61
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.83	0.61
1:A:278:LYS:NZ	1:A:286:THR:OG1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.34	0.61
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.83	0.61
1:C:1031:GLU:OE2	1:C:1039:ARG:NH2	2.34	0.61
1:A:393:THR:HA	1:A:522:ALA:HA	1.83	0.61
1:A:606:ASN:C	1:A:606:ASN:HD22	2.08	0.61
1:C:444:LYS:HD3	1:C:446:GLY:H	1.66	0.61
1:A:915:VAL:HG12	1:A:1109:PHE:HD2	1.65	0.61
1:A:517:LEU:HD23	1:A:518:LEU:HB2	1.83	0.61
1:B:1052:PHE:HB2	1:B:1063:LEU:HB2	1.82	0.61
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.83	0.61
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.83	0.61
1:C:106:PHE:HB3	1:C:235:ILE:HD12	1.82	0.61
1:B:317:ASN:HD21	1:B:592:PHE:HD1	1.49	0.61
1:B:564:GLN:H	1:C:41:LYS:HZ3	1.49	0.61
1:B:577:ARG:HH21	1:B:582:LEU:HD12	1.66	0.61
1:B:731:MET:H	1:B:774:GLN:HE21	1.48	0.61
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.83	0.61
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.83	0.61
1:A:908:GLY:O	1:A:1038:LYS:NZ	2.30	0.61
1:C:858:LEU:HD22	1:C:959:LEU:HD12	1.83	0.60
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.82	0.60
1:A:923:ILE:HA	1:A:926:GLN:HG3	1.82	0.60
1:B:326:ILE:HD11	1:B:534:VAL:HG12	1.81	0.60
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.83	0.60
1:B:707:TYR:HD2	1:C:792:PRO:HG3	1.66	0.60
1:A:606:ASN:C	1:A:606:ASN:HD22	2.08	0.60
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.82	0.60
1:C:452:LEU:HD22	1:C:492:LEU:HD11	1.83	0.60
1:C:908:GLY:O	1:C:1038:LYS:NZ	2.34	0.60
1:C:1030:SER:HA	1:C:1034:LEU:HD23	1.84	0.60
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.82	0.60
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.84	0.60
1:A:664:ILE:HD12	1:A:665:PRO:HD2	1.81	0.60
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.66	0.60
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.66	0.60
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.82	0.60
1:A:562:PHE:O	1:B:41:LYS:NZ	2.35	0.60
1:A:983:ARG:NH2	1:C:428:ASP:OD1	2.35	0.60
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.82	0.60
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.34	0.60
1:C:720:ILE:HD11	1:C:1065:VAL:HG13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.84	0.60
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.83	0.60
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.82	0.60
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.19	0.60
1:C:67:ALA:HB3	1:C:263:ALA:H	1.65	0.60
1:B:738:CYS:O	1:B:742:ILE:HB	2.00	0.60
1:A:973:ILE:HG21	1:A:983:ARG:HH22	1.66	0.60
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.35	0.60
1:A:372:ALA:O	1:C:403:ARG:NH2	2.34	0.60
1:C:109:THR:HG21	1:C:113:LYS:HD3	1.82	0.60
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.84	0.60
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.82	0.60
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.83	0.60
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.84	0.60
1:C:762:GLN:HA	1:C:765:ARG:HE	1.66	0.60
1:A:403:ARG:NH1	1:A:405:ASP:OD2	2.34	0.60
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.82	0.60
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.84	0.60
1:A:981:LEU:O	1:C:386:LYS:NZ	2.34	0.60
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.65	0.60
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.83	0.60
1:B:738:CYS:HB3	1:B:763:LEU:HD11	1.82	0.60
1:C:806:LEU:HD12	1:C:807:PRO:HD2	1.81	0.60
1:B:733:LYS:HD3	1:B:771:ALA:HB1	1.82	0.60
1:A:357:ARG:NH2	1:A:394:ASN:OD1	2.34	0.60
1:B:560:LEU:HD23	1:B:563:GLN:HB2	1.83	0.60
1:A:372:ALA:O	1:C:403:ARG:NH2	2.31	0.60
1:A:557:LYS:NZ	1:B:281:GLU:O	2.35	0.60
1:B:598:ILE:HD11	1:B:678:ILE:HD13	1.83	0.60
1:B:726:ILE:HG22	1:B:1061:VAL:HG22	1.84	0.60
1:C:902:MET:HB3	1:C:916:LEU:HD11	1.84	0.60
1:C:299:THR:HG22	1:C:597:VAL:HG11	1.83	0.60
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.82	0.60
1:A:984:LEU:HD13	1:A:988:GLU:HG2	1.83	0.60
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.83	0.60
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.82	0.60
1:A:226:LEU:HG	1:A:227:VAL:HG23	1.82	0.60
1:C:452:LEU:HB3	1:C:492:LEU:HD12	1.82	0.60
1:C:378:LYS:NZ	1:C:407:VAL:O	2.35	0.60
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.83	0.60
1:A:195:LYS:HD2	1:A:197:ILE:HD11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:ARG:NH1	1:A:219:GLY:O	2.33	0.60
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.83	0.60
1:A:403:ARG:NH2	1:B:372:ALA:O	2.28	0.60
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.84	0.60
1:A:726:ILE:HG22	1:A:1061:VAL:HG22	1.83	0.60
1:C:53:ASP:OD1	1:C:54:LEU:N	2.34	0.60
1:A:119:ILE:HD12	1:A:128:ILE:HG12	1.84	0.60
1:A:889:GLY:HA3	1:A:1034:LEU:HD21	1.84	0.60
1:B:332:ILE:HG23	1:B:529:LYS:HE3	1.84	0.60
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.84	0.60
1:B:729:VAL:HG21	1:B:781:VAL:HG11	1.83	0.60
1:C:407:VAL:HG21	1:C:508:TYR:HD2	1.65	0.60
1:B:58:PHE:HB3	1:B:293:LEU:HD12	1.84	0.60
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.84	0.60
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	1.84	0.60
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.84	0.60
1:A:230:PRO:O	1:C:466:ARG:NH2	2.34	0.60
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.84	0.60
1:B:498:GLN:HE21	1:B:501:TYR:HB2	1.66	0.60
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.82	0.60
1:C:598:ILE:HD11	1:C:678:ILE:HD13	1.84	0.60
1:C:825:LYS:NZ	1:C:938:LEU:O	2.35	0.60
1:B:147:LYS:HB3	1:B:153:MET:HE1	1.83	0.60
1:A:117:LEU:HD11	1:A:231:ILE:HG12	1.84	0.60
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.82	0.60
1:C:756:TYR:HB3	1:C:759:PHE:HD2	1.66	0.60
1:A:315:THR:HG23	1:A:595:VAL:HG23	1.84	0.60
1:A:276:LEU:HD11	1:A:304:LYS:HE2	1.84	0.60
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.66	0.59
1:B:393:THR:HA	1:B:522:ALA:HA	1.82	0.59
1:A:193:VAL:HG12	1:A:204:TYR:HB2	1.84	0.59
1:A:598:ILE:HD11	1:A:678:ILE:HD12	1.84	0.59
1:B:393:THR:HA	1:B:522:ALA:HA	1.84	0.59
1:A:34:ARG:HH22	1:A:220:PHE:HA	1.65	0.59
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.84	0.59
1:C:108:THR:O	1:C:237:ARG:NH2	2.35	0.59
1:C:731:MET:H	1:C:774:GLN:HE21	1.49	0.59
1:B:328:ARG:HH21	1:B:533:LEU:H	1.49	0.59
1:B:327:VAL:O	1:B:531:THR:OG1	2.21	0.59
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.83	0.59
1:B:418:ILE:HD12	1:B:422:ASN:HD22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:LEU:HG	1:A:306:PHE:HE1	1.66	0.59
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.84	0.59
1:C:58:PHE:HD1	1:C:290:ASP:HB2	1.67	0.59
1:A:702:GLU:OE2	1:B:790:LYS:NZ	2.32	0.59
1:C:877:LEU:HD21	1:C:1029:MET:HE1	1.84	0.59
1:B:118:LEU:HD21	1:B:160:TYR:HE2	1.67	0.59
1:C:53:ASP:OD2	1:C:54:LEU:N	2.34	0.59
1:B:40:ASP:OD1	1:B:41:LYS:N	2.36	0.59
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.84	0.59
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.83	0.59
1:A:905:ARG:HH21	1:A:1050:MET:HB2	1.66	0.59
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.68	0.59
1:A:61:ASN:HD22	1:A:61:ASN:C	2.03	0.59
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.83	0.59
1:B:970:PHE:HA	1:C:756:TYR:HE2	1.67	0.59
1:A:108:THR:O	1:A:237:ARG:NH2	2.36	0.59
1:C:712:ILE:HG13	1:C:1094:VAL:HG11	1.84	0.59
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.83	0.59
1:A:788:ILE:HD12	1:A:876:ALA:HB2	1.83	0.59
1:C:53:ASP:OD1	1:C:54:LEU:N	2.35	0.59
1:A:904:TYR:OH	1:C:1093:GLY:O	2.20	0.59
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.85	0.59
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.84	0.59
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.20	0.59
1:C:229:LEU:HD22	1:C:231:ILE:HG22	1.84	0.59
1:C:393:THR:HA	1:C:522:ALA:HA	1.84	0.59
1:C:55:PHE:HB2	1:C:273:ARG:HB2	1.83	0.59
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.84	0.59
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.84	0.59
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.84	0.59
1:B:129:LYS:NZ	1:B:168:PHE:O	2.34	0.59
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.67	0.59
1:A:1129:VAL:HG22	1:B:917:TYR:HB3	1.83	0.59
1:B:560:LEU:HD12	1:B:562:PHE:H	1.68	0.59
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.83	0.59
1:C:408:ARG:NH1	1:C:414:GLN:OE1	2.35	0.59
1:B:908:GLY:O	1:B:1038:LYS:NZ	2.34	0.59
1:B:915:VAL:HG11	1:B:1108:ASN:HB2	1.85	0.59
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.85	0.59
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.85	0.59
1:B:108:THR:O	1:B:237:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:GLN:HA	1:C:41:LYS:HZ1	1.68	0.59
1:A:201:PHE:HB2	1:A:229:LEU:HB2	1.83	0.59
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.84	0.59
1:B:129:LYS:HZ3	1:B:168:PHE:H	1.49	0.59
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.84	0.59
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.84	0.59
1:B:393:THR:HA	1:B:522:ALA:HA	1.84	0.59
1:A:102:ARG:NH1	1:A:121:ASN:O	2.36	0.59
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.84	0.59
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.33	0.59
1:B:521:PRO:HD3	1:C:41:LYS:HE2	1.84	0.59
1:A:34:ARG:NH1	1:A:219:GLY:O	2.35	0.59
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.85	0.59
1:B:954:GLN:OE1	1:B:1014:ARG:NH1	2.36	0.59
1:C:240:THR:HG1	1:C:245:HIS:HE2	1.47	0.59
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.84	0.59
1:A:1043:CYS:O	1:A:1064:HIS:ND1	2.36	0.59
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.85	0.59
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.85	0.59
1:A:988:GLU:OE2	1:C:383:SER:OG	2.20	0.59
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.85	0.59
1:B:777:ASN:OD1	1:B:1019:ARG:NH2	2.35	0.59
1:A:1129:VAL:HG12	1:B:917:TYR:HB3	1.84	0.59
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.20	0.59
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.85	0.59
1:A:372:ALA:O	1:C:403:ARG:NH2	2.32	0.59
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.85	0.59
1:C:546:LEU:HD21	1:C:573:THR:HG21	1.85	0.59
1:B:990:GLU:HA	1:B:993:ILE:HG22	1.85	0.59
1:B:408:ARG:HH22	1:B:409:GLN:HE21	1.49	0.59
1:C:276:LEU:HD11	1:C:304:LYS:HA	1.85	0.59
1:C:461:LEU:HD22	1:C:465:GLU:HG2	1.84	0.59
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.35	0.59
1:A:517:LEU:HD11	1:B:983:ARG:HH11	1.68	0.59
1:A:99:ASN:ND2	1:A:177:MET:SD	2.76	0.58
1:A:970:PHE:HD2	1:A:996:LEU:HA	1.67	0.58
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.84	0.58
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.85	0.58
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.21	0.58
1:A:226:LEU:HG	1:A:227:VAL:HG23	1.83	0.58
1:B:130:VAL:HB	1:B:168:PHE:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:770:ILE:HA	1:B:773:GLU:HG3	1.85	0.58
1:A:372:ALA:O	1:C:403:ARG:NH2	2.32	0.58
1:C:177:MET:SD	1:C:190:ARG:NH2	2.77	0.58
1:C:81:ASN:O	1:C:239:GLN:NE2	2.36	0.58
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.85	0.58
1:C:1030:SER:OG	1:C:1031:GLU:OE1	2.20	0.58
1:A:398:ASP:HB2	1:A:512:VAL:HG12	1.85	0.58
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.86	0.58
1:A:866:THR:OG1	1:A:869:MET:SD	2.57	0.58
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.85	0.58
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.85	0.58
1:A:129:LYS:NZ	1:A:166:CYS:SG	2.68	0.58
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.37	0.58
1:A:727:LEU:HD11	1:A:1025:ALA:HB2	1.84	0.58
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.85	0.58
1:A:726:ILE:HG12	1:A:1061:VAL:HG23	1.86	0.58
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.85	0.58
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.85	0.58
1:A:984:LEU:HB2	1:A:989:ALA:HB2	1.84	0.58
1:C:393:THR:HA	1:C:522:ALA:HA	1.85	0.58
1:C:611:LEU:HD22	1:C:678:ILE:HD11	1.86	0.58
1:A:44:ARG:NH2	1:A:279:TYR:OH	2.36	0.58
1:C:222:ALA:HB2	1:C:285:ILE:HB	1.85	0.58
1:B:436:TRP:HZ3	1:B:509:ARG:HD2	1.67	0.58
1:C:983:ARG:HG3	1:C:984:LEU:HD22	1.85	0.58
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.85	0.58
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.86	0.58
1:A:902:MET:HE1	1:A:1049:LEU:HD23	1.86	0.58
1:B:385:THR:O	1:B:388:ASN:ND2	2.36	0.58
1:C:738:CYS:O	1:C:742:ILE:HB	2.03	0.58
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.84	0.58
1:A:372:ALA:O	1:C:403:ARG:NH2	2.36	0.58
1:C:96:GLU:OE1	1:C:188:ASN:ND2	2.36	0.58
1:A:64:TRP:HE1	1:A:264:ALA:HB1	1.68	0.58
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.35	0.58
1:A:1091:ARG:NH1	1:A:1118:ASP:O	2.36	0.58
1:C:129:LYS:HZ3	1:C:168:PHE:H	1.52	0.58
1:B:733:LYS:HE3	1:B:771:ALA:HB1	1.85	0.58
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.86	0.58
1:B:403:ARG:NH2	1:C:372:ALA:O	2.32	0.58
1:B:403:ARG:NH2	1:C:372:ALA:O	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.85	0.58
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.85	0.58
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.86	0.58
1:A:561:PRO:O	1:A:577:ARG:NH1	2.36	0.58
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.37	0.58
1:B:38:TYR:HE2	1:B:224:GLU:HG3	1.68	0.58
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.85	0.58
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.86	0.58
1:C:777:ASN:HB3	1:C:1019:ARG:HH21	1.69	0.58
1:A:195:LYS:HD2	1:A:197:ILE:HD11	1.86	0.58
1:B:34:ARG:HH22	1:B:220:PHE:HA	1.69	0.58
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.22	0.58
1:C:193:VAL:HG22	1:C:223:LEU:HD23	1.85	0.58
1:A:129:LYS:NZ	1:A:168:PHE:O	2.33	0.58
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.85	0.58
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.86	0.58
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.85	0.58
1:A:372:ALA:O	1:C:403:ARG:NH2	2.36	0.58
1:B:995:ARG:HE	1:B:996:LEU:HD22	1.67	0.58
1:B:106:PHE:HB2	1:B:117:LEU:HB2	1.85	0.58
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.84	0.58
1:A:805:ILE:HD12	1:A:878:LEU:HD11	1.86	0.58
1:A:983:ARG:HE	1:C:517:LEU:HD11	1.68	0.58
1:A:774:GLN:OE1	1:A:777:ASN:ND2	2.37	0.58
1:A:115:GLN:HE22	1:C:468:ILE:HG12	1.68	0.58
1:A:84:LEU:HD12	1:A:85:PRO:HD2	1.84	0.58
1:C:915:VAL:HG12	1:C:1109:PHE:HD2	1.69	0.58
1:A:767:LEU:HA	1:A:770:ILE:HG22	1.85	0.58
1:B:866:THR:HG22	1:B:869:MET:HE2	1.84	0.58
1:C:552:LEU:HB3	1:C:585:LEU:HD22	1.86	0.58
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.84	0.58
1:C:101:ILE:HD11	1:C:240:THR:HB	1.85	0.58
1:C:226:LEU:HG	1:C:227:VAL:HG23	1.86	0.58
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.85	0.58
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.85	0.58
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.85	0.58
1:B:64:TRP:HE1	1:B:264:ALA:HB1	1.69	0.58
1:A:276:LEU:HD11	1:A:304:LYS:HE2	1.85	0.58
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.36	0.58
1:A:276:LEU:HG	1:A:306:PHE:HE1	1.69	0.58
1:B:677:PRO:HB2	1:C:864:LEU:HD11	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:SER:OG	1:C:593:GLY:O	2.21	0.58
1:A:517:LEU:HD11	1:B:983:ARG:HD2	1.86	0.58
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.37	0.58
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.37	0.58
1:A:742:ILE:O	1:A:1000:ARG:NH1	2.36	0.58
1:C:738:CYS:HB2	1:C:763:LEU:HD11	1.85	0.58
1:B:702:GLU:OE2	1:C:790:LYS:NZ	2.36	0.58
1:A:310:LYS:HG2	1:A:664:ILE:HG21	1.86	0.58
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.37	0.58
1:A:911:VAL:HG11	1:A:1067:TYR:HE1	1.69	0.58
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.86	0.58
1:C:273:ARG:NH1	1:C:290:ASP:OD2	2.37	0.58
1:B:503:VAL:HA	1:B:506:GLN:HE21	1.69	0.57
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.36	0.57
1:C:966:LEU:HB2	1:C:1000:ARG:HH12	1.68	0.57
1:A:806:LEU:HD22	1:A:878:LEU:HD21	1.86	0.57
1:B:912:THR:OG1	1:B:1106:GLN:NE2	2.37	0.57
1:A:805:ILE:HD12	1:A:1054:GLN:HE21	1.69	0.57
1:B:738:CYS:O	1:B:742:ILE:HB	2.04	0.57
1:B:559:PHE:HB2	1:B:584:ILE:HD13	1.84	0.57
1:C:809:PRO:O	1:C:814:LYS:NZ	2.36	0.57
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.85	0.57
1:A:372:ALA:O	1:C:403:ARG:NH2	2.32	0.57
1:B:34:ARG:HH22	1:B:220:PHE:HA	1.69	0.57
1:B:415:THR:OG1	1:C:369:TYR:OH	2.18	0.57
1:A:738:CYS:HB3	1:A:763:LEU:HD11	1.85	0.57
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.36	0.57
1:A:774:GLN:OE1	1:A:777:ASN:ND2	2.36	0.57
1:B:961:THR:HA	1:B:964:LYS:HD3	1.86	0.57
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.85	0.57
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.86	0.57
1:C:340:GLU:OE2	1:C:356:LYS:NZ	2.37	0.57
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.70	0.57
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.85	0.57
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.87	0.57
1:A:393:THR:HA	1:A:522:ALA:HA	1.86	0.57
1:A:130:VAL:HG21	1:A:231:ILE:HD11	1.86	0.57
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.85	0.57
1:B:902:MET:HE1	1:B:1050:MET:HE2	1.85	0.57
1:C:48:LEU:HB3	1:C:276:LEU:HD11	1.85	0.57
1:A:552:LEU:HB3	1:A:585:LEU:HD23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.87	0.57
1:B:403:ARG:NH2	1:C:372:ALA:O	2.36	0.57
1:A:276:LEU:HG	1:A:306:PHE:HE1	1.68	0.57
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.35	0.57
1:A:129:LYS:NZ	1:A:168:PHE:O	2.36	0.57
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.86	0.57
1:C:1106:GLN:NE2	1:C:1111:GLU:OE2	2.36	0.57
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.84	0.57
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.68	0.57
1:A:676:ILE:HD12	1:A:677:PRO:HD2	1.86	0.57
1:A:1002:GLN:OE1	1:C:1002:GLN:NE2	2.37	0.57
1:C:426:PRO:HB3	1:C:464:PHE:HB2	1.87	0.57
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.36	0.57
1:B:770:ILE:HA	1:B:773:GLU:HG3	1.87	0.57
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.86	0.57
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.37	0.57
1:A:369:TYR:HH	1:C:415:THR:HG1	1.52	0.57
1:C:978:ASN:HA	1:C:981:LEU:HG	1.86	0.57
1:C:774:GLN:HE22	1:C:1018:ILE:HG21	1.69	0.57
1:B:332:ILE:HA	1:B:524:VAL:HG22	1.86	0.57
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.37	0.57
1:B:984:LEU:HD11	1:B:988:GLU:HB2	1.85	0.57
1:C:884:SER:HB3	1:C:887:THR:HB	1.85	0.57
1:A:563:GLN:O	1:A:577:ARG:NH2	2.37	0.57
1:A:946:GLY:HA2	1:A:949:GLN:HB3	1.86	0.57
1:A:1093:GLY:O	1:B:904:TYR:OH	2.18	0.57
1:B:457:ARG:NH1	1:B:467:ASP:OD2	2.33	0.57
1:B:229:LEU:HD12	1:B:230:PRO:HD2	1.87	0.57
1:B:360:ASN:H	1:B:523:THR:HB	1.69	0.57
1:C:129:LYS:NZ	1:C:166:CYS:SG	2.76	0.57
1:A:105:ILE:HG22	1:A:239:GLN:HB3	1.87	0.57
1:C:14:GLN:O	1:C:158:ARG:NH1	2.35	0.57
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.38	0.57
1:B:317:ASN:ND2	1:C:737:ASP:OD1	2.37	0.57
1:A:762:GLN:HA	1:A:765:ARG:HE	1.70	0.57
1:A:805:ILE:HD12	1:A:1054:GLN:HE21	1.69	0.57
1:C:775:ASP:HB3	1:C:864:LEU:HD23	1.86	0.57
1:B:129:LYS:NZ	1:B:168:PHE:O	2.33	0.57
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.86	0.57
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.37	0.57
1:A:102:ARG:NH1	1:A:121:ASN:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.86	0.57
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.85	0.57
1:C:316:SER:OG	1:C:317:ASN:N	2.37	0.57
1:A:501:TYR:O	1:A:506:GLN:NE2	2.37	0.57
1:C:781:VAL:HG13	1:C:782:PHE:HD2	1.70	0.57
1:A:567:ARG:NH1	1:A:573:THR:OG1	2.38	0.57
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.87	0.57
1:C:108:THR:O	1:C:237:ARG:NH2	2.38	0.57
1:C:177:MET:SD	1:C:190:ARG:NH2	2.78	0.57
1:B:362:VAL:HG21	1:B:526:GLY:H	1.70	0.57
1:C:126:VAL:HB	1:C:172:SER:HB3	1.86	0.57
1:A:745:ASP:OD1	1:C:319:ARG:NH1	2.38	0.57
1:B:86:PHE:HE1	1:B:89:GLY:HA2	1.70	0.57
1:A:47:VAL:HG12	1:C:569:ILE:HA	1.87	0.57
1:A:177:MET:SD	1:A:190:ARG:NH2	2.78	0.57
1:C:129:LYS:HZ1	1:C:167:THR:H	1.52	0.57
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.86	0.57
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.86	0.57
1:B:569:ILE:HG13	1:C:47:VAL:HG12	1.86	0.57
1:A:360:ASN:H	1:A:523:THR:HB	1.69	0.57
1:A:973:ILE:HG21	1:A:983:ARG:HH22	1.70	0.57
1:C:560:LEU:HD22	1:C:562:PHE:HB3	1.87	0.57
1:C:99:ASN:HB3	1:C:102:ARG:HH12	1.70	0.57
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.87	0.57
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.85	0.57
1:C:375:SER:HB3	1:C:436:TRP:HA	1.87	0.57
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.22	0.57
1:B:978:ASN:HA	1:B:981:LEU:HG	1.86	0.57
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.87	0.57
1:B:129:LYS:NZ	1:B:168:PHE:O	2.35	0.57
1:B:767:LEU:HA	1:B:770:ILE:HG12	1.86	0.57
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.86	0.57
1:A:393:THR:HA	1:A:522:ALA:HA	1.87	0.57
1:C:101:ILE:HD11	1:C:240:THR:HB	1.87	0.57
1:A:276:LEU:HD11	1:A:304:LYS:HE2	1.85	0.57
1:B:403:ARG:NH2	1:C:372:ALA:O	2.36	0.57
1:C:741:TYR:HE1	1:C:1004:LEU:HD13	1.70	0.57
1:C:1010:GLN:HB3	1:C:1014:ARG:HH21	1.70	0.57
1:A:574:ASP:OD1	1:A:574:ASP:N	2.38	0.57
1:C:822:LEU:HD22	1:C:945:LEU:HD21	1.85	0.57
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:340:GLU:OE2	1:C:356:LYS:NZ	2.38	0.57
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.36	0.57
1:B:14:GLN:N	1:B:255:SER:HG	2.02	0.57
1:B:48:LEU:HB3	1:B:276:LEU:HD11	1.87	0.57
1:A:384:PRO:HA	1:A:387:LEU:HD23	1.86	0.57
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.87	0.57
1:A:809:PRO:O	1:A:814:LYS:NZ	2.37	0.57
1:C:984:LEU:HG	1:C:989:ALA:HB2	1.86	0.57
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.70	0.57
1:B:984:LEU:HB2	1:B:989:ALA:HB2	1.86	0.57
1:B:741:TYR:HE2	1:B:1004:LEU:HB2	1.70	0.56
1:B:353:TRP:HE1	1:B:355:ARG:HH21	1.52	0.56
1:B:376:THR:OG1	1:B:378:LYS:NZ	2.38	0.56
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.69	0.56
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.87	0.56
1:B:382:VAL:HG22	1:C:983:ARG:HH12	1.70	0.56
1:B:984:LEU:HB2	1:B:989:ALA:HB2	1.87	0.56
1:C:564:GLN:HG2	1:C:577:ARG:HD2	1.86	0.56
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.87	0.56
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.87	0.56
1:A:726:ILE:HG22	1:A:1061:VAL:HG22	1.87	0.56
1:C:440:ASN:OD1	1:C:440:ASN:N	2.38	0.56
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.87	0.56
1:A:1040:VAL:HG11	1:B:1035:GLY:HA3	1.86	0.56
1:A:105:ILE:HG23	1:A:239:GLN:HB3	1.88	0.56
1:B:576:VAL:HG12	1:B:587:ILE:HD11	1.87	0.56
1:A:761:THR:HG22	1:A:765:ARG:HH21	1.68	0.56
1:B:390:LEU:HD21	1:C:983:ARG:HA	1.86	0.56
1:C:119:ILE:HG12	1:C:128:ILE:HG12	1.87	0.56
1:A:517:LEU:HD11	1:B:983:ARG:HH21	1.70	0.56
1:B:102:ARG:NH1	1:B:121:ASN:O	2.37	0.56
1:A:439:ASN:OD1	1:A:506:GLN:NE2	2.38	0.56
1:A:326:ILE:HD11	1:A:534:VAL:HG12	1.86	0.56
1:B:390:LEU:HD21	1:C:983:ARG:HG2	1.87	0.56
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.88	0.56
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.86	0.56
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.86	0.56
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.85	0.56
1:A:108:THR:O	1:A:237:ARG:NH2	2.39	0.56
1:A:1039:ARG:HD2	1:B:1039:ARG:HH22	1.70	0.56
1:A:34:ARG:HH22	1:A:220:PHE:HA	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:GLU:OE1	1:A:164:ASN:ND2	2.37	0.56
1:A:809:PRO:O	1:A:814:LYS:NZ	2.38	0.56
1:B:763:LEU:HB2	1:B:1008:VAL:HG11	1.88	0.56
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.86	0.56
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.38	0.56
1:C:908:GLY:O	1:C:1038:LYS:NZ	2.38	0.56
1:C:99:ASN:HB3	1:C:102:ARG:HH12	1.70	0.56
1:C:374:PHE:CG	1:C:434:ILE:HD11	2.40	0.56
1:B:759:PHE:HA	1:B:762:GLN:OE1	2.05	0.56
1:C:360:ASN:HB3	1:C:523:THR:HG22	1.85	0.56
1:C:901:GLN:OE1	1:C:905:ARG:NH1	2.38	0.56
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.85	0.56
1:C:809:PRO:O	1:C:814:LYS:NZ	2.36	0.56
1:A:890:ALA:HA	1:C:1046:GLY:HA2	1.87	0.56
1:A:340:GLU:OE2	1:A:356:LYS:NZ	2.38	0.56
1:B:409:GLN:HA	1:B:414:GLN:HG2	1.86	0.56
1:C:129:LYS:HZ3	1:C:168:PHE:H	1.52	0.56
1:C:731:MET:H	1:C:774:GLN:HE21	1.52	0.56
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.71	0.56
1:A:702:GLU:OE2	1:B:790:LYS:NZ	2.35	0.56
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.38	0.56
1:C:973:ILE:HG21	1:C:983:ARG:HH12	1.70	0.56
1:C:866:THR:H	1:C:869:MET:HE2	1.69	0.56
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.88	0.56
1:B:1002:GLN:HA	1:B:1005:GLN:HE21	1.70	0.56
1:A:80:ALA:O	1:A:245:HIS:NE2	2.38	0.56
1:B:733:LYS:HB2	1:B:861:LEU:HB2	1.86	0.56
1:C:383:SER:HB3	1:C:386:LYS:HE2	1.87	0.56
1:C:498:GLN:HE22	1:C:505:TYR:HD2	1.53	0.56
1:C:393:THR:HA	1:C:522:ALA:HA	1.86	0.56
1:A:569:ILE:HG13	1:B:47:VAL:HG23	1.87	0.56
1:C:877:LEU:HD21	1:C:1029:MET:HE1	1.87	0.56
1:B:1049:LEU:HB3	1:B:1050:MET:HE3	1.87	0.56
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.87	0.56
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.87	0.56
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.21	0.56
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.70	0.56
1:C:106:PHE:HD1	1:C:235:ILE:HD13	1.71	0.56
1:A:439:ASN:ND2	1:A:506:GLN:OE1	2.34	0.56
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.87	0.56
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:562:PHE:O	1:C:41:LYS:NZ	2.39	0.56
1:C:1104:VAL:H	1:C:1115:ILE:HD11	1.71	0.56
1:B:360:ASN:H	1:B:523:THR:HB	1.69	0.56
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.88	0.56
1:A:971:GLY:HA3	1:A:995:ARG:HH12	1.70	0.56
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.87	0.56
1:A:562:PHE:O	1:B:41:LYS:NZ	2.38	0.56
1:A:802:PHE:HB3	1:A:806:LEU:HD23	1.86	0.56
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.88	0.56
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.36	0.56
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.88	0.56
1:A:357:ARG:NH2	1:A:396:TYR:OH	2.38	0.56
1:A:954:GLN:OE1	1:A:1014:ARG:NH2	2.39	0.56
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.38	0.56
1:A:697:MET:HB3	1:B:869:MET:HE1	1.88	0.56
1:A:869:MET:HG2	1:C:699:LEU:HD21	1.88	0.56
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.88	0.56
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.78	0.56
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.88	0.56
1:A:310:LYS:HG3	1:A:600:PRO:HA	1.87	0.56
1:C:809:PRO:O	1:C:814:LYS:NZ	2.36	0.56
1:A:719:THR:HG22	1:A:1070:ALA:HB2	1.86	0.56
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.88	0.56
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.86	0.56
1:A:988:GLU:OE1	1:C:383:SER:OG	2.24	0.56
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.88	0.56
1:B:216:LEU:HD12	1:B:217:PRO:HD2	1.86	0.56
1:A:334:ASN:ND2	1:A:360:ASN:O	2.34	0.56
1:A:199:GLY:HA2	1:A:232:GLY:HA2	1.86	0.56
1:A:1129:VAL:HG22	1:B:917:TYR:HB3	1.88	0.56
1:B:912:THR:OG1	1:B:1106:GLN:NE2	2.38	0.56
1:A:887:THR:HB	1:A:894:LEU:HD13	1.88	0.56
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.39	0.56
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.87	0.56
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.87	0.56
1:B:189:LEU:HD21	1:B:210:ILE:HD13	1.88	0.56
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.88	0.56
1:C:106:PHE:HB2	1:C:117:LEU:HB2	1.88	0.56
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.22	0.56
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.70	0.56
1:C:777:ASN:HB3	1:C:1019:ARG:HH21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:195:LYS:HG3	1:C:197:ILE:HG12	1.88	0.56
1:A:914:ASN:HD21	1:C:1121:PHE:HE2	1.53	0.56
1:C:973:ILE:HG21	1:C:983:ARG:HH12	1.70	0.56
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.86	0.56
1:C:395:VAL:HG12	1:C:515:PHE:HB3	1.86	0.56
1:A:1011:GLN:OE1	1:A:1014:ARG:NH1	2.37	0.56
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.86	0.56
1:A:809:PRO:O	1:A:814:LYS:NZ	2.38	0.56
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.36	0.56
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.88	0.56
1:B:506:GLN:HG3	1:B:507:PRO:HD2	1.87	0.56
1:A:564:GLN:OE1	1:B:41:LYS:NZ	2.38	0.56
1:A:133:PHE:HE2	1:A:159:VAL:HG12	1.69	0.56
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.38	0.56
1:A:369:TYR:HH	1:C:415:THR:HG1	1.51	0.56
1:C:353:TRP:HB2	1:C:399:SER:H	1.70	0.56
1:B:191:GLU:HG2	1:B:223:LEU:HD21	1.88	0.56
1:A:918:GLU:HG3	1:C:1128:VAL:HG21	1.87	0.56
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.70	0.56
1:C:440:ASN:OD1	1:C:440:ASN:N	2.39	0.56
1:A:316:SER:OG	1:A:317:ASN:N	2.37	0.56
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.88	0.56
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.86	0.56
1:A:1013:ILE:HG21	1:B:1012:LEU:HB3	1.87	0.56
1:A:440:ASN:OD1	1:A:440:ASN:N	2.39	0.56
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.88	0.56
1:C:393:THR:HA	1:C:522:ALA:HA	1.87	0.56
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.39	0.56
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.87	0.56
1:B:670:ASN:C	1:B:670:ASN:ND2	2.64	0.56
1:A:34:ARG:HH22	1:A:220:PHE:HA	1.71	0.56
1:A:394:ASN:OD1	1:B:200:TYR:OH	2.23	0.56
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.33	0.56
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.88	0.56
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.38	0.56
1:B:22:THR:OG1	1:B:78:ARG:NH1	2.38	0.56
1:A:954:GLN:HA	1:A:957:GLN:HG3	1.88	0.56
1:A:369:TYR:OH	1:C:415:THR:OG1	2.22	0.56
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.88	0.56
1:A:547:THR:O	1:B:978:ASN:ND2	2.34	0.56
1:A:300:LYS:NZ	1:A:306:PHE:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.70	0.56
1:B:355:ARG:NH1	1:C:230:PRO:O	2.38	0.56
1:B:519:HIS:HE1	1:C:42:VAL:HA	1.71	0.56
1:A:31:SER:OG	1:A:60:SER:O	2.24	0.56
1:A:461:LEU:HD12	1:A:465:GLU:HB3	1.86	0.56
1:A:316:SER:OG	1:A:317:ASN:N	2.39	0.56
1:C:425:LEU:HD22	1:C:512:VAL:HG11	1.87	0.56
1:B:457:ARG:NH1	1:B:467:ASP:OD1	2.36	0.56
1:C:984:LEU:HB2	1:C:989:ALA:HB2	1.87	0.56
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.71	0.56
1:C:712:ILE:HG12	1:C:1094:VAL:HG11	1.87	0.56
1:A:896:ILE:HD12	1:C:712:ILE:HD11	1.88	0.56
1:A:369:TYR:OH	1:C:415:THR:OG1	2.22	0.56
1:B:1017:GLU:OE2	1:C:1019:ARG:NH1	2.39	0.56
1:C:196:ASN:ND2	1:C:233:ILE:O	2.34	0.56
1:B:22:THR:O	1:B:78:ARG:NH1	2.39	0.56
1:C:454:ARG:NH1	1:C:469:SER:O	2.38	0.55
1:A:68:ILE:H	1:A:78:ARG:HB2	1.71	0.55
1:B:298:GLU:HB3	1:B:315:THR:HG21	1.89	0.55
1:A:332:ILE:HG13	1:A:362:VAL:HG22	1.87	0.55
1:B:317:ASN:HD21	1:B:592:PHE:HD2	1.55	0.55
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.88	0.55
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.88	0.55
1:B:726:ILE:HG22	1:B:1061:VAL:HG22	1.88	0.55
1:C:395:VAL:HG22	1:C:515:PHE:HB3	1.88	0.55
1:C:1010:GLN:OE1	1:C:1014:ARG:NH1	2.39	0.55
1:B:104:TRP:HD1	1:B:238:PHE:HZ	1.55	0.55
1:C:177:MET:SD	1:C:190:ARG:NH2	2.79	0.55
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.39	0.55
1:A:296:LEU:HB3	1:A:608:VAL:HG21	1.86	0.55
1:B:726:ILE:HG22	1:B:1061:VAL:HG22	1.89	0.55
1:C:340:GLU:OE1	1:C:356:LYS:NZ	2.39	0.55
1:A:394:ASN:ND2	1:B:200:TYR:OH	2.38	0.55
1:C:1031:GLU:OE2	1:C:1039:ARG:NE	2.39	0.55
1:A:106:PHE:HB3	1:A:235:ILE:HD12	1.89	0.55
1:C:34:ARG:NH1	1:C:219:GLY:O	2.40	0.55
1:C:877:LEU:HG	1:C:1053:PRO:HG2	1.87	0.55
1:B:195:LYS:HZ3	1:B:202:LYS:HD3	1.71	0.55
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.87	0.55
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.25	0.55
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.87	0.55
1:B:598:ILE:HD11	1:B:678:ILE:HD12	1.87	0.55
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.86	0.55
1:B:1031:GLU:HB3	1:B:1037:SER:HB2	1.88	0.55
1:C:39:PRO:HG3	1:C:51:THR:HG21	1.87	0.55
1:A:372:ALA:O	1:C:403:ARG:NH2	2.39	0.55
1:B:994:ASP:HA	1:B:997:ILE:HG12	1.88	0.55
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.71	0.55
1:A:753:LEU:HD21	1:A:997:ILE:HG21	1.88	0.55
1:B:1139:ASP:HB3	1:B:1142:GLN:HG2	1.87	0.55
1:A:34:ARG:NH1	1:A:219:GLY:O	2.39	0.55
1:A:338:PHE:HE1	1:A:368:LEU:HD23	1.71	0.55
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.88	0.55
1:B:336:CYS:HB3	1:B:358:ILE:HD12	1.89	0.55
1:B:442:ASP:O	1:B:448:ASN:ND2	2.39	0.55
1:C:394:ASN:ND2	1:C:516:GLU:OE1	2.35	0.55
1:C:1088:HIS:CE1	1:C:1122:VAL:HG22	2.41	0.55
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.89	0.55
1:C:738:CYS:O	1:C:742:ILE:HB	2.06	0.55
1:A:57:PRO:O	1:A:60:SER:OG	2.24	0.55
1:A:108:THR:O	1:A:237:ARG:NH2	2.39	0.55
1:B:117:LEU:HD13	1:B:235:ILE:HD11	1.89	0.55
1:A:970:PHE:O	1:A:995:ARG:NH1	2.40	0.55
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.88	0.55
1:C:229:LEU:HD12	1:C:230:PRO:HD2	1.88	0.55
1:B:994:ASP:HA	1:B:997:ILE:HG12	1.88	0.55
1:A:606:ASN:O	1:A:606:ASN:ND2	2.39	0.55
1:C:64:TRP:HE1	1:C:264:ALA:HB1	1.72	0.55
1:C:440:ASN:OD1	1:C:440:ASN:N	2.40	0.55
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.88	0.55
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.87	0.55
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.86	0.55
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.88	0.55
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.40	0.55
1:A:717:ASN:HB3	1:A:1071:GLN:HB2	1.88	0.55
1:C:287:ASP:HB2	1:C:306:PHE:HE2	1.71	0.55
1:A:576:VAL:HG12	1:A:587:ILE:HD11	1.88	0.55
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.87	0.55
1:A:230:PRO:O	1:C:466:ARG:NH2	2.40	0.55
1:C:524:VAL:HG13	1:C:529:LYS:HD3	1.87	0.55
1:A:369:TYR:HH	1:C:415:THR:HG1	1.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:34:ARG:NH1	1:C:219:GLY:O	2.39	0.55
1:B:222:ALA:HB2	1:B:285:ILE:HB	1.87	0.55
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.88	0.55
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.88	0.55
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	1.89	0.55
1:C:108:THR:O	1:C:237:ARG:NH2	2.40	0.55
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.89	0.55
1:A:887:THR:HB	1:A:894:LEU:HD23	1.89	0.55
1:B:978:ASN:HA	1:B:981:LEU:HG	1.88	0.55
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.87	0.55
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.71	0.55
1:A:312:ILE:HG22	1:A:664:ILE:HD11	1.88	0.55
1:A:328:ARG:NH2	1:A:580:GLN:OE1	2.40	0.55
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.40	0.55
1:A:1129:VAL:HG22	1:B:917:TYR:HB3	1.88	0.55
1:B:950:ASP:OD1	1:B:950:ASP:N	2.38	0.55
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.89	0.55
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.24	0.55
1:C:809:PRO:O	1:C:814:LYS:NZ	2.38	0.55
1:B:276:LEU:HB3	1:B:289:VAL:HG22	1.88	0.55
1:C:398:ASP:HB2	1:C:512:VAL:HG12	1.88	0.55
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.72	0.55
1:C:815:ARG:HH11	1:C:823:PHE:HD1	1.55	0.55
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.88	0.55
1:B:471:GLU:OE2	1:C:113:LYS:NZ	2.39	0.55
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.89	0.55
1:B:735:SER:HB3	1:B:861:LEU:HD21	1.88	0.55
1:B:809:PRO:HA	1:B:814:LYS:HD2	1.87	0.55
1:B:102:ARG:HH21	1:B:246:ILE:HG12	1.72	0.55
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.88	0.55
1:B:393:THR:HA	1:B:522:ALA:HA	1.89	0.55
1:C:99:ASN:O	1:C:102:ARG:NH1	2.40	0.55
1:C:553:THR:O	1:C:586:ASP:N	2.39	0.55
1:A:877:LEU:HD21	1:A:1029:MET:HE1	1.88	0.55
1:C:776:LYS:NZ	1:C:777:ASN:OD1	2.40	0.55
1:C:467:ASP:OD1	1:C:467:ASP:N	2.37	0.55
1:C:867:ASP:OD2	1:C:867:ASP:N	2.39	0.55
1:B:457:ARG:NH1	1:B:467:ASP:OD2	2.40	0.55
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.24	0.55
1:C:140:PHE:HA	1:C:246:ILE:HG23	1.89	0.55
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:702:GLU:HA	1:B:788:ILE:HB	1.88	0.55
1:A:807:PRO:HA	1:A:816:SER:HA	1.88	0.55
1:B:662:CYS:HB2	1:B:697:MET:HG3	1.88	0.55
1:A:80:ALA:O	1:A:245:HIS:NE2	2.36	0.55
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.38	0.55
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.88	0.55
1:A:115:GLN:HB2	1:A:233:ILE:HG12	1.89	0.55
1:B:702:GLU:OE2	1:C:790:LYS:NZ	2.35	0.55
1:B:888:PHE:HE2	1:B:1034:LEU:HA	1.71	0.55
1:C:37:TYR:OH	1:C:195:LYS:NZ	2.39	0.55
1:C:670:ASN:C	1:C:670:ASN:ND2	2.65	0.55
1:C:598:ILE:HD11	1:C:678:ILE:HD13	1.87	0.55
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.89	0.55
1:A:741:TYR:HD1	1:A:742:ILE:HD13	1.71	0.55
1:C:979:ASP:OD2	1:C:983:ARG:NH1	2.39	0.55
1:A:403:ARG:NH2	1:B:372:ALA:O	2.33	0.55
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.88	0.55
1:A:806:LEU:HD12	1:A:807:PRO:HD2	1.87	0.55
1:C:276:LEU:HD13	1:C:301:CYS:HA	1.88	0.55
1:A:358:ILE:HB	1:A:395:VAL:HG23	1.87	0.55
1:A:719:THR:HG22	1:A:1070:ALA:HB2	1.89	0.55
1:B:200:TYR:HA	1:B:230:PRO:HA	1.89	0.55
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.40	0.55
1:A:319:ARG:NH2	1:A:549:THR:OG1	2.40	0.55
1:A:403:ARG:NH2	1:B:372:ALA:O	2.32	0.55
1:C:360:ASN:H	1:C:523:THR:HB	1.72	0.55
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.88	0.55
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.89	0.55
1:C:99:ASN:OD1	1:C:190:ARG:NH2	2.34	0.55
1:A:968:SER:OG	1:B:755:GLN:O	2.25	0.55
1:B:393:THR:HG21	1:B:518:LEU:HB2	1.88	0.55
1:B:296:LEU:O	1:B:299:THR:OG1	2.22	0.55
1:C:273:ARG:NH2	1:C:290:ASP:OD2	2.39	0.55
1:C:395:VAL:HG12	1:C:515:PHE:HB3	1.88	0.55
1:A:1091:ARG:NH1	1:A:1118:ASP:O	2.37	0.55
1:A:752:LEU:HD21	1:A:994:ASP:HB3	1.89	0.55
1:B:726:ILE:HG22	1:B:1061:VAL:HG22	1.88	0.55
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.24	0.55
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.25	0.55
1:C:340:GLU:OE2	1:C:356:LYS:NZ	2.39	0.55
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:VAL:HG21	1:B:526:GLY:H	1.71	0.55
1:A:193:VAL:HG12	1:A:204:TYR:HB2	1.89	0.55
1:C:33:THR:OG1	1:C:219:GLY:O	2.25	0.55
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.89	0.55
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.88	0.55
1:A:357:ARG:HD2	1:A:359:SER:HB2	1.88	0.55
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.23	0.55
1:C:1031:GLU:HG3	1:C:1039:ARG:HH21	1.72	0.55
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.89	0.55
1:C:546:LEU:HD21	1:C:573:THR:HG21	1.88	0.55
1:B:738:CYS:O	1:B:742:ILE:HB	2.07	0.55
1:C:276:LEU:HD22	1:C:306:PHE:HE1	1.70	0.55
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.72	0.55
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.88	0.55
1:B:440:ASN:OD1	1:B:440:ASN:N	2.37	0.55
1:B:707:TYR:HD2	1:C:792:PRO:HG3	1.70	0.55
1:B:950:ASP:OD1	1:B:950:ASP:N	2.37	0.55
1:A:177:MET:SD	1:A:190:ARG:NH2	2.78	0.55
1:C:204:TYR:HB3	1:C:223:LEU:HB3	1.88	0.55
1:B:971:GLY:HA3	1:B:995:ARG:HH12	1.72	0.55
1:B:983:ARG:HG2	1:B:984:LEU:HD23	1.88	0.55
1:A:1005:GLN:HA	1:A:1008:VAL:HG22	1.88	0.55
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.71	0.55
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.39	0.55
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.38	0.55
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.71	0.55
1:A:117:LEU:HD11	1:A:231:ILE:HG21	1.87	0.55
1:A:731:MET:H	1:A:774:GLN:HE21	1.55	0.55
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.90	0.54
1:A:97:LYS:HE2	1:A:187:LYS:H	1.72	0.54
1:A:439:ASN:ND2	1:A:506:GLN:OE1	2.40	0.54
1:C:337:PRO:HD2	1:C:358:ILE:HD12	1.90	0.54
1:C:440:ASN:OD1	1:C:440:ASN:N	2.40	0.54
1:A:369:TYR:OH	1:C:415:THR:OG1	2.21	0.54
1:A:440:ASN:OD1	1:A:440:ASN:N	2.39	0.54
1:B:577:ARG:HH21	1:B:582:LEU:HD13	1.72	0.54
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.38	0.54
1:C:753:LEU:HD13	1:C:756:TYR:HD2	1.71	0.54
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.39	0.54
1:A:973:ILE:HG21	1:A:983:ARG:HH22	1.72	0.54
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:ARG:NH2	1:C:372:ALA:O	2.32	0.54
1:C:129:LYS:NZ	1:C:167:THR:OG1	2.40	0.54
1:A:278:LYS:HB2	1:A:306:PHE:HE1	1.71	0.54
1:B:269:TYR:O	1:B:271:GLN:NE2	2.39	0.54
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.88	0.54
1:B:726:ILE:HG23	1:B:1061:VAL:HG22	1.90	0.54
1:C:99:ASN:OD1	1:C:190:ARG:NH2	2.40	0.54
1:B:269:TYR:O	1:B:271:GLN:NE2	2.40	0.54
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.41	0.54
1:B:501:TYR:O	1:B:506:GLN:NE2	2.40	0.54
1:C:1073:LYS:HE3	1:C:1075:PHE:HZ	1.71	0.54
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.89	0.54
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.89	0.54
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.79	0.54
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.18	0.54
1:A:113:LYS:NZ	1:C:471:GLU:OE2	2.34	0.54
1:C:393:THR:HA	1:C:522:ALA:HA	1.88	0.54
1:A:826:VAL:HB	1:A:1057:PRO:HG2	1.88	0.54
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.24	0.54
1:C:606:ASN:O	1:C:606:ASN:ND2	2.40	0.54
1:A:340:GLU:OE2	1:A:356:LYS:NZ	2.40	0.54
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.89	0.54
1:A:403:ARG:NH2	1:B:372:ALA:O	2.35	0.54
1:B:533:LEU:HD21	1:B:585:LEU:HD11	1.89	0.54
1:B:295:PRO:HA	1:B:298:GLU:HG3	1.89	0.54
1:B:403:ARG:NH2	1:C:372:ALA:O	2.32	0.54
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.90	0.54
1:A:971:GLY:HA2	1:B:755:GLN:HE21	1.71	0.54
1:C:37:TYR:OH	1:C:195:LYS:NZ	2.38	0.54
1:C:108:THR:O	1:C:237:ARG:NH2	2.41	0.54
1:C:202:LYS:NZ	1:C:228:ASP:OD1	2.40	0.54
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.90	0.54
1:C:1081:ILE:HG13	1:C:1088:HIS:HB2	1.90	0.54
1:C:28:TYR:HB3	1:C:61:ASN:HB3	1.90	0.54
1:A:358:ILE:HB	1:A:395:VAL:HG23	1.89	0.54
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.89	0.54
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.22	0.54
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.40	0.54
1:B:1091:ARG:NH2	1:B:1120:THR:O	2.40	0.54
1:A:58:PHE:HD1	1:A:290:ASP:HB2	1.72	0.54
1:A:384:PRO:HA	1:A:387:LEU:HD23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:440:ASN:OD1	1:A:440:ASN:N	2.40	0.54
1:C:287:ASP:HB2	1:C:306:PHE:HE2	1.71	0.54
1:B:206:LYS:NZ	1:B:222:ALA:O	2.39	0.54
1:B:316:SER:OG	1:B:317:ASN:N	2.40	0.54
1:B:949:GLN:HA	1:B:952:VAL:HG22	1.89	0.54
1:B:403:ARG:NH2	1:C:372:ALA:O	2.30	0.54
1:B:360:ASN:H	1:B:523:THR:HB	1.72	0.54
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.40	0.54
1:C:440:ASN:OD1	1:C:440:ASN:N	2.40	0.54
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.89	0.54
1:B:560:LEU:HD23	1:B:562:PHE:H	1.72	0.54
1:A:276:LEU:HD11	1:A:304:LYS:HE3	1.88	0.54
1:A:825:LYS:HZ3	1:A:942:ALA:HA	1.72	0.54
1:A:316:SER:HB3	1:A:595:VAL:HG22	1.89	0.54
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.40	0.54
1:A:226:LEU:HG	1:A:227:VAL:HG23	1.88	0.54
1:A:890:ALA:HA	1:C:1046:GLY:HA2	1.89	0.54
1:A:403:ARG:NH2	1:B:372:ALA:O	2.31	0.54
1:A:756:TYR:HB3	1:A:759:PHE:HD2	1.73	0.54
1:A:1002:GLN:NE2	1:B:1005:GLN:OE1	2.40	0.54
1:B:365:TYR:O	1:B:369:TYR:HB2	2.08	0.54
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.72	0.54
1:A:33:THR:OG1	1:A:219:GLY:O	2.26	0.54
1:B:104:TRP:HZ3	1:B:240:THR:HG22	1.72	0.54
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.90	0.54
1:A:809:PRO:O	1:A:814:LYS:NZ	2.39	0.54
1:A:904:TYR:HE2	1:A:913:GLN:HE21	1.54	0.54
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.90	0.54
1:B:340:GLU:OE2	1:B:356:LYS:NZ	2.41	0.54
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.89	0.54
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.89	0.54
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.89	0.54
1:A:349:SER:OG	1:A:452:LEU:O	2.25	0.54
1:B:737:ASP:HB3	1:B:740:MET:HG3	1.90	0.54
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.89	0.54
1:B:393:THR:HA	1:B:522:ALA:HA	1.90	0.54
1:A:34:ARG:HH22	1:A:220:PHE:HA	1.71	0.54
1:A:600:PRO:HD3	1:A:692:ILE:HD11	1.90	0.54
1:A:576:VAL:HG12	1:A:587:ILE:HD11	1.89	0.54
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.40	0.54
1:C:727:LEU:HD22	1:C:1025:ALA:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.79	0.54
1:A:774:GLN:OE1	1:A:777:ASN:ND2	2.36	0.54
1:A:1010:GLN:OE1	1:A:1014:ARG:NH2	2.41	0.54
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.90	0.54
1:A:756:TYR:HB3	1:A:759:PHE:HD2	1.72	0.54
1:B:82:PRO:HG2	1:B:84:LEU:HD21	1.89	0.54
1:A:598:ILE:HD11	1:A:678:ILE:HD12	1.89	0.54
1:A:809:PRO:O	1:A:814:LYS:NZ	2.40	0.54
1:B:440:ASN:OD1	1:B:440:ASN:N	2.41	0.54
1:C:21:ARG:HA	1:C:79:PHE:HB3	1.89	0.54
1:A:393:THR:HA	1:A:522:ALA:HA	1.89	0.54
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.38	0.54
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.90	0.54
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.22	0.54
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.88	0.54
1:C:353:TRP:HE1	1:C:466:ARG:HB2	1.73	0.54
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.89	0.54
1:C:788:ILE:HD12	1:C:876:ALA:HB2	1.89	0.54
1:B:759:PHE:HA	1:B:762:GLN:HG3	1.88	0.54
1:C:83:VAL:HG22	1:C:239:GLN:HG2	1.90	0.54
1:C:130:VAL:HB	1:C:168:PHE:HB2	1.89	0.54
1:A:1013:ILE:HD13	1:B:1012:LEU:HD12	1.90	0.54
1:B:340:GLU:OE2	1:B:356:LYS:NZ	2.41	0.54
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.73	0.54
1:C:57:PRO:HG3	1:C:273:ARG:HD2	1.89	0.54
1:A:406:GLU:HG2	1:A:418:ILE:HG13	1.89	0.54
1:B:457:ARG:NH1	1:B:467:ASP:OD2	2.38	0.54
1:C:394:ASN:N	1:C:394:ASN:OD1	2.40	0.54
1:B:293:LEU:HD23	1:B:294:ASP:HB3	1.89	0.54
1:B:314:GLN:NE2	1:B:316:SER:O	2.40	0.54
1:A:858:LEU:HD13	1:A:959:LEU:HB3	1.88	0.54
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.89	0.54
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.89	0.54
1:A:226:LEU:HG	1:A:227:VAL:HG23	1.88	0.54
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.23	0.54
1:B:908:GLY:O	1:B:1038:LYS:NZ	2.35	0.54
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.23	0.54
1:B:1002:GLN:HA	1:B:1005:GLN:HG3	1.88	0.54
1:B:360:ASN:O	1:B:360:ASN:ND2	2.39	0.54
1:C:353:TRP:HE1	1:C:466:ARG:HB2	1.72	0.54
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:PHE:HD1	1:A:246:ILE:HG12	1.73	0.54
1:A:742:ILE:O	1:A:1000:ARG:NH1	2.40	0.54
1:B:719:THR:HG22	1:B:1070:ALA:HB2	1.88	0.54
1:A:440:ASN:OD1	1:A:440:ASN:N	2.39	0.54
1:C:193:VAL:HB	1:C:204:TYR:HB2	1.89	0.54
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.90	0.54
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.73	0.54
1:B:353:TRP:HH2	1:B:464:PHE:HA	1.73	0.54
1:B:403:ARG:NH2	1:C:372:ALA:O	2.32	0.54
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.37	0.54
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.89	0.54
1:B:34:ARG:NH1	1:B:219:GLY:O	2.41	0.54
1:A:1027:THR:HG22	1:A:1042:PHE:HZ	1.73	0.54
1:C:193:VAL:HB	1:C:204:TYR:HB2	1.90	0.54
1:B:295:PRO:HG2	1:B:608:VAL:HG11	1.89	0.54
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.90	0.54
1:B:708:SER:HB3	1:B:711:SER:HB3	1.88	0.54
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.23	0.54
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.90	0.54
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.39	0.54
1:C:729:VAL:O	1:C:777:ASN:ND2	2.41	0.54
1:C:915:VAL:HG11	1:C:1108:ASN:HB2	1.90	0.54
1:B:401:VAL:HG12	1:B:509:ARG:HG2	1.90	0.54
1:B:708:SER:HB3	1:B:711:SER:HB3	1.90	0.54
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.89	0.54
1:C:877:LEU:HD23	1:C:1053:PRO:HG2	1.89	0.54
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.24	0.54
1:B:707:TYR:HD2	1:C:792:PRO:HG3	1.73	0.54
1:B:1010:GLN:HB3	1:B:1014:ARG:HH12	1.72	0.54
1:C:887:THR:HG21	1:C:894:LEU:HG	1.89	0.54
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.90	0.54
1:C:398:ASP:OD1	1:C:398:ASP:N	2.39	0.54
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.89	0.54
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.89	0.54
1:B:317:ASN:HD21	1:B:592:PHE:HD1	1.55	0.54
1:A:805:ILE:HD12	1:A:1054:GLN:HE21	1.73	0.54
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.89	0.54
1:A:971:GLY:HA3	1:A:995:ARG:HH12	1.72	0.54
1:B:418:ILE:HD12	1:B:422:ASN:HD22	1.71	0.54
1:C:756:TYR:HB3	1:C:759:PHE:HD1	1.72	0.54
1:B:34:ARG:NH1	1:B:219:GLY:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:738:CYS:O	1:B:742:ILE:HB	2.08	0.54
1:A:338:PHE:HE2	1:A:368:LEU:HD23	1.73	0.54
1:A:802:PHE:HB3	1:A:806:LEU:HD23	1.90	0.54
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.26	0.54
1:A:969:ASN:HD21	1:B:755:GLN:HG2	1.72	0.54
1:B:139:PRO:O	1:B:245:HIS:ND1	2.40	0.54
1:B:442:ASP:OD1	1:B:509:ARG:NH2	2.41	0.54
1:B:726:ILE:HD13	1:B:1061:VAL:HG22	1.90	0.54
1:B:102:ARG:HH21	1:B:246:ILE:HG12	1.73	0.54
1:B:440:ASN:OD1	1:B:440:ASN:N	2.41	0.54
1:A:745:ASP:OD1	1:C:319:ARG:NH1	2.34	0.54
1:C:688:THR:HA	1:C:690:GLN:HG2	1.89	0.54
1:B:177:MET:HG2	1:B:190:ARG:HH22	1.72	0.54
1:A:440:ASN:OD1	1:A:440:ASN:N	2.40	0.54
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.88	0.54
1:C:278:LYS:NZ	1:C:286:THR:OG1	2.41	0.54
1:C:131:CYS:SG	1:C:132:GLU:N	2.80	0.54
1:A:86:PHE:HB2	1:A:238:PHE:HD1	1.72	0.53
1:C:337:PRO:HG3	1:C:356:LYS:HD3	1.89	0.53
1:A:115:GLN:HB2	1:A:233:ILE:HD13	1.90	0.53
1:C:599:THR:HB	1:C:608:VAL:HG23	1.89	0.53
1:B:226:LEU:HG	1:B:227:VAL:HG23	1.89	0.53
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.41	0.53
1:C:501:TYR:O	1:C:506:GLN:NE2	2.41	0.53
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.36	0.53
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.90	0.53
1:B:398:ASP:HB2	1:B:512:VAL:HG12	1.91	0.53
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.89	0.53
1:C:727:LEU:HD21	1:C:1024:LEU:HG	1.90	0.53
1:A:599:THR:HB	1:A:608:VAL:HG23	1.89	0.53
1:A:315:THR:HG23	1:A:595:VAL:HG23	1.90	0.53
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.89	0.53
1:B:762:GLN:HA	1:B:765:ARG:HE	1.73	0.53
1:A:58:PHE:HD1	1:A:290:ASP:HB2	1.72	0.53
1:A:384:PRO:HA	1:A:387:LEU:HD23	1.90	0.53
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.26	0.53
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.90	0.53
1:B:731:MET:H	1:B:774:GLN:HE21	1.55	0.53
1:C:126:VAL:HG22	1:C:172:SER:HB3	1.90	0.53
1:C:393:THR:OG1	1:C:394:ASN:OD1	2.24	0.53
1:A:386:LYS:NZ	1:B:984:LEU:O	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:726:ILE:HD13	1:B:1061:VAL:HG22	1.90	0.53
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.90	0.53
1:A:791:THR:HG21	1:A:806:LEU:HD11	1.89	0.53
1:B:44:ARG:NH2	1:B:279:TYR:OH	2.42	0.53
1:C:384:PRO:HA	1:C:387:LEU:HD23	1.89	0.53
1:B:440:ASN:OD1	1:B:440:ASN:N	2.39	0.53
1:C:222:ALA:HB2	1:C:285:ILE:HB	1.90	0.53
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.73	0.53
1:C:1031:GLU:HG3	1:C:1039:ARG:HH21	1.73	0.53
1:A:604:THR:OG1	1:A:605:SER:N	2.41	0.53
1:B:1040:VAL:HG11	1:C:1035:GLY:HA3	1.89	0.53
1:A:34:ARG:NH1	1:A:219:GLY:O	2.41	0.53
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.41	0.53
1:C:440:ASN:OD1	1:C:440:ASN:N	2.41	0.53
1:A:39:PRO:HG3	1:A:51:THR:HG21	1.90	0.53
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.35	0.53
1:B:679:GLY:HA2	1:C:864:LEU:HD12	1.89	0.53
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.91	0.53
1:A:358:ILE:HB	1:A:395:VAL:HG23	1.90	0.53
1:B:719:THR:HG22	1:B:1070:ALA:HB2	1.89	0.53
1:A:393:THR:HA	1:A:522:ALA:HA	1.91	0.53
1:C:858:LEU:HD22	1:C:959:LEU:HD12	1.90	0.53
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.90	0.53
1:B:121:ASN:HD21	1:B:177:MET:HE3	1.73	0.53
1:C:484:LYS:HD2	1:C:490:PHE:HB2	1.89	0.53
1:B:357:ARG:NH2	1:B:394:ASN:OD1	2.41	0.53
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.73	0.53
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.23	0.53
1:A:276:LEU:HD11	1:A:304:LYS:HE2	1.91	0.53
1:A:908:GLY:O	1:A:1038:LYS:NZ	2.30	0.53
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.89	0.53
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.91	0.53
1:B:87:ASN:OD1	1:B:87:ASN:N	2.40	0.53
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.91	0.53
1:A:998:THR:O	1:A:1002:GLN:NE2	2.41	0.53
1:B:452:LEU:HD12	1:B:492:LEU:HD12	1.91	0.53
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.89	0.53
1:C:574:ASP:OD1	1:C:574:ASP:N	2.39	0.53
1:A:358:ILE:HB	1:A:395:VAL:HG23	1.89	0.53
1:A:393:THR:HA	1:A:522:ALA:HA	1.89	0.53
1:B:384:PRO:HA	1:B:387:LEU:HD22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:PRO:HA	1:A:387:LEU:HD23	1.91	0.53
1:A:719:THR:HG22	1:A:1070:ALA:HB2	1.89	0.53
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.89	0.53
1:B:408:ARG:NH2	1:C:376:THR:OG1	2.40	0.53
1:B:611:LEU:HD22	1:B:666:ILE:HD11	1.90	0.53
1:A:688:THR:HA	1:A:690:GLN:HG2	1.89	0.53
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.89	0.53
1:B:289:VAL:HG11	1:B:300:LYS:HB2	1.91	0.53
1:B:994:ASP:HA	1:B:997:ILE:HG12	1.90	0.53
1:B:365:TYR:O	1:B:369:TYR:HB2	2.08	0.53
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.89	0.53
1:C:788:ILE:HG13	1:C:876:ALA:HB2	1.90	0.53
1:C:905:ARG:HE	1:C:1050:MET:HE3	1.72	0.53
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.74	0.53
1:C:126:VAL:HB	1:C:172:SER:HB3	1.90	0.53
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.24	0.53
1:C:887:THR:HB	1:C:894:LEU:HD23	1.89	0.53
1:A:809:PRO:HA	1:A:814:LYS:HD2	1.90	0.53
1:A:34:ARG:HH22	1:A:220:PHE:HA	1.74	0.53
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.90	0.53
1:C:809:PRO:O	1:C:814:LYS:NZ	2.36	0.53
1:A:91:TYR:OH	1:A:191:GLU:OE2	2.18	0.53
1:A:129:LYS:NZ	1:A:168:PHE:O	2.42	0.53
1:A:440:ASN:OD1	1:A:440:ASN:N	2.39	0.53
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.91	0.53
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.90	0.53
1:A:34:ARG:HH22	1:A:220:PHE:HA	1.72	0.53
1:B:418:ILE:HD12	1:B:422:ASN:HD22	1.73	0.53
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.89	0.53
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.91	0.53
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.89	0.53
1:A:87:ASN:OD1	1:A:87:ASN:N	2.41	0.53
1:B:411:ALA:HB3	1:B:414:GLN:HG2	1.89	0.53
1:B:571:ASP:OD2	1:C:975:SER:OG	2.25	0.53
1:C:503:VAL:HA	1:C:506:GLN:HG3	1.91	0.53
1:A:735:SER:HA	1:A:767:LEU:HD23	1.89	0.53
1:A:908:GLY:O	1:A:1038:LYS:NZ	2.38	0.53
1:A:314:GLN:HE22	1:A:594:GLY:HA3	1.73	0.53
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.72	0.53
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.90	0.53
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:117:LEU:HD11	1:C:231:ILE:HG12	1.91	0.53
1:B:323:THR:OG1	1:B:324:GLU:OE2	2.21	0.53
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.33	0.53
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.91	0.53
1:B:457:ARG:NH1	1:B:467:ASP:OD1	2.41	0.53
1:B:960:ASN:O	1:B:964:LYS:HB2	2.09	0.53
1:C:393:THR:OG1	1:C:394:ASN:OD1	2.25	0.53
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.90	0.53
1:C:125:ASN:HB2	1:C:172:SER:H	1.73	0.53
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.25	0.53
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.91	0.53
1:C:408:ARG:HD2	1:C:414:GLN:HE21	1.73	0.53
1:C:897:PRO:HB2	1:C:900:MET:HG2	1.91	0.53
1:A:177:MET:SD	1:A:190:ARG:NH2	2.82	0.53
1:A:745:ASP:OD1	1:C:319:ARG:NH1	2.41	0.53
1:B:102:ARG:HH21	1:B:246:ILE:HG12	1.73	0.53
1:A:731:MET:SD	1:A:774:GLN:NE2	2.81	0.53
1:C:897:PRO:HG2	1:C:900:MET:HG2	1.91	0.53
1:A:562:PHE:HE1	1:B:225:PRO:HG2	1.74	0.53
1:B:454:ARG:HH12	1:B:457:ARG:HD2	1.73	0.53
1:A:129:LYS:NZ	1:A:166:CYS:SG	2.67	0.53
1:C:598:ILE:HD11	1:C:678:ILE:HD12	1.90	0.53
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.90	0.53
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.22	0.53
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.89	0.53
1:C:1010:GLN:NE2	1:C:1011:GLN:OE1	2.42	0.53
1:A:762:GLN:HB3	1:A:765:ARG:HH21	1.74	0.53
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.89	0.53
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.41	0.53
1:C:22:THR:O	1:C:78:ARG:NH1	2.42	0.53
1:A:547:THR:O	1:B:978:ASN:ND2	2.42	0.53
1:A:87:ASN:OD1	1:A:87:ASN:N	2.39	0.53
1:B:440:ASN:OD1	1:B:440:ASN:N	2.39	0.53
1:B:976:VAL:HG13	1:B:979:ASP:HB3	1.91	0.53
1:A:357:ARG:NH2	1:A:396:TYR:OH	2.41	0.53
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.90	0.53
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.90	0.53
1:B:994:ASP:HA	1:B:997:ILE:HG12	1.91	0.53
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.73	0.53
1:A:960:ASN:O	1:A:964:LYS:HB2	2.09	0.53
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:326:ILE:HD11	1:B:534:VAL:HG12	1.90	0.53
1:C:984:LEU:HD12	1:C:988:GLU:HB2	1.91	0.53
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.89	0.53
1:C:101:ILE:HD11	1:C:240:THR:HB	1.90	0.53
1:A:599:THR:HB	1:A:608:VAL:HG23	1.91	0.53
1:A:141:LEU:HD13	1:A:154:GLU:HG3	1.91	0.53
1:C:454:ARG:HH21	1:C:491:PRO:HB2	1.74	0.53
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.91	0.53
1:A:440:ASN:OD1	1:A:440:ASN:N	2.40	0.53
1:A:99:ASN:OD1	1:A:190:ARG:NH2	2.42	0.53
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.90	0.53
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.90	0.53
1:A:712:ILE:HG12	1:A:1077:THR:HB	1.90	0.53
1:B:383:SER:OG	1:C:983:ARG:O	2.22	0.53
1:C:712:ILE:HG12	1:C:1077:THR:HB	1.90	0.53
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.89	0.53
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.89	0.53
1:A:440:ASN:OD1	1:A:440:ASN:N	2.39	0.53
1:C:722:VAL:HG12	1:C:1065:VAL:HB	1.90	0.53
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.23	0.53
1:A:80:ALA:O	1:A:245:HIS:NE2	2.41	0.53
1:A:393:THR:HA	1:A:522:ALA:HA	1.91	0.53
1:C:1031:GLU:HG3	1:C:1039:ARG:HH21	1.74	0.53
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.73	0.53
1:A:809:PRO:HA	1:A:814:LYS:HD2	1.91	0.53
1:C:759:PHE:HA	1:C:762:GLN:HE21	1.73	0.53
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.42	0.53
1:B:393:THR:HA	1:B:522:ALA:HA	1.89	0.53
1:B:930:ALA:HA	1:B:933:LYS:HG2	1.91	0.53
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.24	0.53
1:C:973:ILE:HG21	1:C:983:ARG:HH12	1.73	0.53
1:A:102:ARG:HE	1:A:246:ILE:HD11	1.73	0.53
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.90	0.53
1:A:805:ILE:HD12	1:A:878:LEU:HD11	1.91	0.53
1:B:440:ASN:OD1	1:B:440:ASN:N	2.39	0.53
1:C:877:LEU:O	1:C:881:THR:OG1	2.27	0.53
1:A:189:LEU:HD22	1:A:208:THR:HB	1.91	0.53
1:B:503:VAL:HA	1:B:506:GLN:HG3	1.91	0.53
1:C:129:LYS:NZ	1:C:167:THR:OG1	2.42	0.53
1:A:105:ILE:HG23	1:A:239:GLN:HB3	1.90	0.53
1:B:222:ALA:HB2	1:B:285:ILE:HB	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.91	0.53
1:C:40:ASP:N	1:C:40:ASP:OD1	2.40	0.53
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.74	0.53
1:A:997:ILE:O	1:A:1001:LEU:HB3	2.09	0.53
1:B:440:ASN:OD1	1:B:440:ASN:N	2.39	0.53
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.82	0.53
1:A:756:TYR:HB3	1:A:759:PHE:HD2	1.74	0.53
1:A:976:VAL:HG13	1:A:979:ASP:HB3	1.89	0.53
1:A:1128:VAL:HG21	1:B:918:GLU:HG3	1.90	0.53
1:B:99:ASN:OD1	1:B:190:ARG:NH2	2.41	0.53
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.91	0.52
1:C:322:PRO:HG3	1:C:538:CYS:HB3	1.90	0.52
1:A:64:TRP:HE1	1:A:264:ALA:HB1	1.74	0.52
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.91	0.52
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.91	0.52
1:A:58:PHE:HD2	1:A:290:ASP:HB2	1.74	0.52
1:A:930:ALA:HA	1:A:933:LYS:HG2	1.90	0.52
1:C:302:THR:O	1:C:304:LYS:NZ	2.43	0.52
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.91	0.52
1:A:92:PHE:HB3	1:A:192:PHE:HB2	1.91	0.52
1:C:326:ILE:HD13	1:C:533:LEU:HD12	1.91	0.52
1:C:992:GLN:OE1	1:C:995:ARG:NH2	2.42	0.52
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.90	0.52
1:B:719:THR:HG22	1:B:1070:ALA:HB2	1.89	0.52
1:B:965:GLN:OE1	1:C:758:SER:OG	2.26	0.52
1:A:403:ARG:NH1	1:A:405:ASP:OD1	2.42	0.52
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.26	0.52
1:C:117:LEU:HB2	1:C:233:ILE:HD11	1.91	0.52
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.92	0.52
1:C:902:MET:HB3	1:C:916:LEU:HD11	1.91	0.52
1:C:1031:GLU:HG3	1:C:1039:ARG:HH11	1.73	0.52
1:C:357:ARG:NH2	1:C:396:TYR:OH	2.42	0.52
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.74	0.52
1:B:37:TYR:HB3	1:B:223:LEU:HB2	1.91	0.52
1:B:440:ASN:OD1	1:B:440:ASN:N	2.42	0.52
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.74	0.52
1:C:195:LYS:HG2	1:C:202:LYS:HB2	1.91	0.52
1:C:315:THR:HG23	1:C:595:VAL:HG23	1.91	0.52
1:A:561:PRO:HA	1:A:577:ARG:HH22	1.74	0.52
1:B:92:PHE:HE2	1:B:104:TRP:HE1	1.56	0.52
1:A:35:GLY:HA3	1:A:56:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:PRO:HG2	1:A:608:VAL:HG11	1.90	0.52
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.90	0.52
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.91	0.52
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.91	0.52
1:C:599:THR:HB	1:C:608:VAL:HG23	1.92	0.52
1:C:750:SER:HA	1:C:753:LEU:HG	1.90	0.52
1:A:777:ASN:HA	1:A:780:GLU:HG3	1.90	0.52
1:A:102:ARG:HE	1:A:246:ILE:HD11	1.74	0.52
1:A:822:LEU:HD22	1:A:945:LEU:HD11	1.91	0.52
1:C:14:GLN:O	1:C:158:ARG:NE	2.43	0.52
1:A:99:ASN:OD1	1:A:190:ARG:NH2	2.42	0.52
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.75	0.52
1:C:360:ASN:H	1:C:523:THR:HB	1.74	0.52
1:C:858:LEU:HD22	1:C:959:LEU:HD12	1.90	0.52
1:C:40:ASP:N	1:C:40:ASP:OD1	2.42	0.52
1:A:719:THR:HG22	1:A:1070:ALA:HB2	1.90	0.52
1:A:1010:GLN:HE22	1:A:1014:ARG:HD2	1.73	0.52
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.41	0.52
1:A:1107:ARG:HH21	1:B:904:TYR:HD2	1.55	0.52
1:B:968:SER:OG	1:C:755:GLN:O	2.27	0.52
1:A:822:LEU:HD22	1:A:945:LEU:HD11	1.92	0.52
1:B:112:SER:HB2	1:B:132:GLU:HB3	1.92	0.52
1:B:58:PHE:HD2	1:B:290:ASP:HB2	1.74	0.52
1:A:986:PRO:HD2	1:A:987:PRO:HD3	1.91	0.52
1:A:34:ARG:HH22	1:A:220:PHE:HA	1.73	0.52
1:A:340:GLU:OE2	1:A:356:LYS:NZ	2.43	0.52
1:B:327:VAL:O	1:B:531:THR:OG1	2.25	0.52
1:A:762:GLN:HA	1:A:765:ARG:HE	1.74	0.52
1:B:319:ARG:NH2	1:B:590:CYS:SG	2.82	0.52
1:C:733:LYS:NZ	1:C:862:PRO:O	2.34	0.52
1:A:894:LEU:HD21	1:C:715:PRO:HD3	1.91	0.52
1:A:393:THR:HA	1:A:522:ALA:HA	1.90	0.52
1:A:701:VAL:HG13	1:B:787:GLN:HG2	1.91	0.52
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.27	0.52
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.91	0.52
1:C:458:LYS:HB3	1:C:474:GLN:HB3	1.91	0.52
1:C:887:THR:HG21	1:C:894:LEU:HB2	1.92	0.52
1:B:720:ILE:HD11	1:B:1065:VAL:HB	1.91	0.52
1:C:440:ASN:OD1	1:C:440:ASN:N	2.39	0.52
1:C:877:LEU:O	1:C:881:THR:OG1	2.27	0.52
1:B:760:CYS:O	1:B:764:ASN:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:586:ASP:N	1:C:586:ASP:OD1	2.40	0.52
1:C:1030:SER:HA	1:C:1034:LEU:HD23	1.91	0.52
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.91	0.52
1:C:586:ASP:N	1:C:586:ASP:OD1	2.41	0.52
1:C:902:MET:HB3	1:C:916:LEU:HD11	1.91	0.52
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.27	0.52
1:B:384:PRO:HA	1:B:387:LEU:HG	1.90	0.52
1:C:599:THR:HB	1:C:608:VAL:HG23	1.91	0.52
1:C:40:ASP:N	1:C:40:ASP:OD1	2.43	0.52
1:B:317:ASN:HD21	1:B:592:PHE:HD2	1.57	0.52
1:B:357:ARG:NH2	1:B:396:TYR:OH	2.42	0.52
1:C:45:SER:HA	1:C:279:TYR:HB3	1.92	0.52
1:A:1083:HIS:HD2	1:A:1137:VAL:H	1.56	0.52
1:B:440:ASN:OD1	1:B:440:ASN:N	2.41	0.52
1:C:791:THR:HG21	1:C:806:LEU:HD11	1.92	0.52
1:B:418:ILE:HD12	1:B:422:ASN:HB2	1.91	0.52
1:B:972:ALA:HB2	1:B:996:LEU:HD21	1.90	0.52
1:C:576:VAL:HG12	1:C:587:ILE:HD11	1.92	0.52
1:C:310:LYS:HG2	1:C:676:ILE:HG21	1.92	0.52
1:A:416:GLY:HA2	1:B:369:TYR:HE2	1.74	0.52
1:B:440:ASN:OD1	1:B:440:ASN:N	2.40	0.52
1:A:784:GLN:NE2	1:C:1041:ASP:OD2	2.42	0.52
1:B:323:THR:OG1	1:B:324:GLU:OE1	2.18	0.52
1:C:326:ILE:HD13	1:C:533:LEU:HA	1.89	0.52
1:B:902:MET:HE1	1:B:1050:MET:HE2	1.92	0.52
1:A:563:GLN:HG2	1:B:43:PHE:HD1	1.75	0.52
1:B:1013:ILE:HD13	1:C:1012:LEU:HG	1.92	0.52
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.74	0.52
1:B:440:ASN:OD1	1:B:440:ASN:N	2.39	0.52
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.92	0.52
1:A:328:ARG:HB2	1:A:543:PHE:HD2	1.74	0.52
1:B:756:TYR:OH	1:B:994:ASP:OD1	2.27	0.52
1:B:737:ASP:HB3	1:B:740:MET:HE3	1.90	0.52
1:A:33:THR:OG1	1:A:219:GLY:O	2.25	0.52
1:C:809:PRO:O	1:C:814:LYS:NZ	2.40	0.52
1:A:858:LEU:HD13	1:A:959:LEU:HB3	1.91	0.52
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.75	0.52
1:C:742:ILE:O	1:C:1000:ARG:NH1	2.34	0.52
1:B:102:ARG:HH21	1:B:246:ILE:HG12	1.74	0.52
1:C:731:MET:HE2	1:C:955:ASN:HD21	1.74	0.52
1:B:393:THR:HA	1:B:522:ALA:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.92	0.52
1:B:440:ASN:OD1	1:B:440:ASN:N	2.39	0.52
1:A:87:ASN:OD1	1:A:87:ASN:N	2.42	0.52
1:C:22:THR:O	1:C:78:ARG:NH1	2.43	0.52
1:A:908:GLY:O	1:A:1038:LYS:NZ	2.34	0.52
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.90	0.52
1:B:99:ASN:O	1:B:102:ARG:NH2	2.43	0.52
1:C:1067:TYR:HE2	1:C:1108:ASN:HD22	1.58	0.52
1:B:362:VAL:HG21	1:B:526:GLY:H	1.75	0.52
1:C:950:ASP:N	1:C:950:ASP:OD1	2.42	0.52
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.27	0.52
1:B:90:VAL:HG21	1:B:238:PHE:HE2	1.75	0.52
1:A:877:LEU:HD21	1:A:1029:MET:HE1	1.91	0.52
1:B:771:ALA:HA	1:B:774:GLN:HG2	1.92	0.52
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.40	0.52
1:C:440:ASN:N	1:C:440:ASN:OD1	2.39	0.52
1:A:777:ASN:HA	1:A:780:GLU:HG3	1.92	0.52
1:B:22:THR:OG1	1:B:78:ARG:NH1	2.40	0.52
1:C:901:GLN:HE21	1:C:1050:MET:HE1	1.74	0.52
1:C:99:ASN:OD1	1:C:190:ARG:NH2	2.41	0.52
1:A:147:LYS:HB3	1:A:153:MET:HE2	1.92	0.52
1:C:81:ASN:O	1:C:239:GLN:NE2	2.35	0.52
1:B:350:VAL:HG21	1:B:418:ILE:HD11	1.92	0.52
1:C:1052:PHE:HB2	1:C:1063:LEU:HD12	1.92	0.52
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.92	0.52
1:A:440:ASN:OD1	1:A:440:ASN:N	2.40	0.52
1:B:314:GLN:HE21	1:B:314:GLN:HA	1.74	0.52
1:A:291:CYS:HB2	1:A:298:GLU:HA	1.91	0.52
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.58	0.52
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.92	0.52
1:A:599:THR:HB	1:A:608:VAL:HG23	1.91	0.52
1:A:719:THR:HG22	1:A:1070:ALA:HB2	1.92	0.52
1:B:203:ILE:HG13	1:B:226:LEU:HB3	1.91	0.52
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.92	0.52
1:A:33:THR:OG1	1:A:219:GLY:O	2.28	0.52
1:A:688:THR:HA	1:A:690:GLN:HG2	1.91	0.52
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.91	0.52
1:B:720:ILE:HD11	1:B:1065:VAL:HG13	1.91	0.52
1:A:34:ARG:NH1	1:A:219:GLY:O	2.42	0.52
1:B:86:PHE:HE1	1:B:89:GLY:HA2	1.74	0.52
1:C:93:ALA:HA	1:C:191:GLU:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:TYR:OH	1:C:54:LEU:O	2.28	0.52
1:C:759:PHE:HA	1:C:762:GLN:HE21	1.74	0.52
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.91	0.52
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.92	0.52
1:C:599:THR:HB	1:C:608:VAL:HG23	1.92	0.52
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.79	0.52
1:C:877:LEU:O	1:C:881:THR:OG1	2.27	0.52
1:B:317:ASN:HD21	1:B:592:PHE:HD2	1.57	0.52
1:B:902:MET:HE1	1:B:1050:MET:HE2	1.92	0.52
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.92	0.52
1:B:731:MET:H	1:B:774:GLN:HE22	1.58	0.52
1:A:403:ARG:NH2	1:B:372:ALA:O	2.36	0.52
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.90	0.52
1:A:357:ARG:HH12	1:A:394:ASN:HD22	1.58	0.52
1:B:54:LEU:HB3	1:B:270:LEU:HD13	1.92	0.52
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.20	0.52
1:B:889:GLY:HA3	1:B:1034:LEU:HD11	1.92	0.52
1:A:930:ALA:HA	1:A:933:LYS:HE2	1.91	0.52
1:C:393:THR:OG1	1:C:394:ASN:OD1	2.27	0.52
1:B:950:ASP:OD1	1:B:950:ASP:N	2.42	0.52
1:C:546:LEU:HD21	1:C:573:THR:HG21	1.92	0.52
1:B:87:ASN:C	1:B:87:ASN:HD22	2.15	0.52
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.92	0.52
1:B:735:SER:HB3	1:B:861:LEU:HD21	1.91	0.52
1:B:48:LEU:HD12	1:B:276:LEU:HD21	1.92	0.52
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.91	0.52
1:C:403:ARG:NH1	1:C:405:ASP:OD1	2.42	0.52
1:C:1115:ILE:HG22	1:C:1137:VAL:HG23	1.91	0.52
1:A:895:GLN:HE22	1:C:706:ALA:HB3	1.74	0.52
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.90	0.52
1:A:809:PRO:HA	1:A:814:LYS:HD2	1.91	0.52
1:B:440:ASN:OD1	1:B:440:ASN:N	2.40	0.52
1:A:574:ASP:O	1:A:587:ILE:N	2.38	0.52
1:C:53:ASP:OD1	1:C:54:LEU:N	2.43	0.52
1:A:92:PHE:HB3	1:A:192:PHE:HB2	1.90	0.52
1:B:108:THR:OG1	1:B:234:ASN:O	2.28	0.52
1:C:806:LEU:HD12	1:C:807:PRO:HD2	1.92	0.52
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.27	0.52
1:A:951:VAL:HA	1:A:954:GLN:HG3	1.92	0.52
1:B:104:TRP:HZ3	1:B:240:THR:HG22	1.74	0.52
1:B:398:ASP:HB2	1:B:512:VAL:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:751:ASN:HA	1:C:754:LEU:HG	1.92	0.52
1:A:1010:GLN:HE22	1:A:1014:ARG:HD2	1.75	0.52
1:B:978:ASN:HA	1:B:981:LEU:HG	1.91	0.52
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.74	0.52
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.91	0.52
1:C:887:THR:HG21	1:C:894:LEU:HB2	1.90	0.52
1:A:133:PHE:HE1	1:A:160:TYR:HB3	1.75	0.52
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.90	0.52
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.90	0.52
1:C:1010:GLN:HE22	1:C:1014:ARG:HH21	1.58	0.52
1:A:503:VAL:HA	1:A:506:GLN:HG3	1.91	0.52
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.92	0.52
1:A:84:LEU:HD12	1:A:85:PRO:HD2	1.91	0.52
1:C:64:TRP:HE1	1:C:264:ALA:HB1	1.75	0.52
1:B:994:ASP:HA	1:B:997:ILE:HG12	1.92	0.52
1:B:389:ASP:OD1	1:B:389:ASP:N	2.42	0.52
1:B:406:GLU:HB3	1:B:418:ILE:HG21	1.92	0.52
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.92	0.51
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.93	0.51
1:B:915:VAL:HG12	1:B:1109:PHE:HD2	1.74	0.51
1:C:53:ASP:OD1	1:C:54:LEU:N	2.43	0.51
1:B:393:THR:HA	1:B:522:ALA:HA	1.92	0.51
1:A:574:ASP:OD1	1:A:574:ASP:N	2.41	0.51
1:C:395:VAL:HG12	1:C:515:PHE:HB3	1.92	0.51
1:B:355:ARG:HH22	1:C:230:PRO:HB2	1.76	0.51
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.92	0.51
1:A:881:THR:HG22	1:A:882:ILE:HD13	1.90	0.51
1:C:741:TYR:HH	1:C:1003:SER:HG	1.58	0.51
1:A:384:PRO:HA	1:A:387:LEU:HD23	1.92	0.51
1:C:599:THR:HB	1:C:608:VAL:HG23	1.92	0.51
1:B:440:ASN:OD1	1:B:440:ASN:N	2.43	0.51
1:A:905:ARG:NH2	1:A:1049:LEU:O	2.42	0.51
1:A:328:ARG:NH1	1:A:531:THR:O	2.39	0.51
1:A:791:THR:HG21	1:A:806:LEU:HD11	1.91	0.51
1:B:298:GLU:HB3	1:B:315:THR:HG21	1.92	0.51
1:B:440:ASN:OD1	1:B:440:ASN:N	2.40	0.51
1:C:467:ASP:OD2	1:C:467:ASP:N	2.41	0.51
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.92	0.51
1:A:33:THR:OG1	1:A:219:GLY:O	2.25	0.51
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.42	0.51
1:B:571:ASP:OD2	1:C:975:SER:OG	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.24	0.51
1:B:733:LYS:NZ	1:B:862:PRO:O	2.43	0.51
1:A:559:PHE:HB2	1:A:584:ILE:HD13	1.92	0.51
1:A:574:ASP:OD1	1:A:574:ASP:N	2.42	0.51
1:A:919:ASN:HD22	1:A:922:LEU:HD21	1.75	0.51
1:B:189:LEU:HD12	1:B:217:PRO:HG2	1.92	0.51
1:B:381:GLY:HA2	1:C:984:LEU:HD13	1.90	0.51
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.92	0.51
1:C:1010:GLN:HE22	1:C:1014:ARG:HH21	1.58	0.51
1:A:986:PRO:HD2	1:A:987:PRO:HD3	1.93	0.51
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.93	0.51
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.92	0.51
1:A:334:ASN:ND2	1:A:360:ASN:O	2.41	0.51
1:A:887:THR:HB	1:A:894:LEU:HD23	1.91	0.51
1:B:276:LEU:HG	1:B:306:PHE:HE1	1.76	0.51
1:B:566:GLY:HA2	1:C:43:PHE:HB3	1.93	0.51
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.22	0.51
1:B:300:LYS:HE3	1:B:306:PHE:HA	1.93	0.51
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.75	0.51
1:A:1031:GLU:OE1	1:A:1039:ARG:NH1	2.39	0.51
1:A:319:ARG:HH11	1:B:744:GLY:HA3	1.75	0.51
1:C:271:GLN:HG2	1:C:272:PRO:HD2	1.91	0.51
1:C:807:PRO:HA	1:C:816:SER:HA	1.92	0.51
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.92	0.51
1:B:15:CYS:SG	1:B:137:ASN:N	2.80	0.51
1:C:394:ASN:N	1:C:394:ASN:OD1	2.42	0.51
1:C:599:THR:HB	1:C:608:VAL:HG23	1.93	0.51
1:A:68:ILE:H	1:A:78:ARG:HB2	1.74	0.51
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.93	0.51
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.23	0.51
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.92	0.51
1:A:599:THR:HB	1:A:608:VAL:HG23	1.92	0.51
1:C:599:THR:HB	1:C:608:VAL:HG23	1.92	0.51
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.91	0.51
1:A:45:SER:OG	1:C:567:ARG:O	2.29	0.51
1:C:877:LEU:O	1:C:881:THR:OG1	2.28	0.51
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.92	0.51
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.75	0.51
1:A:33:THR:OG1	1:A:219:GLY:O	2.27	0.51
1:A:330:PRO:HG3	1:A:579:PRO:HB2	1.91	0.51
1:A:452:LEU:HA	1:A:494:SER:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:930:ALA:HA	1:A:933:LYS:HG2	1.91	0.51
1:C:34:ARG:NH1	1:C:219:GLY:O	2.40	0.51
1:C:564:GLN:HG2	1:C:577:ARG:HD2	1.91	0.51
1:A:770:ILE:HD12	1:A:1012:LEU:HD13	1.91	0.51
1:A:41:LYS:HD2	1:C:562:PHE:HE1	1.76	0.51
1:A:384:PRO:HA	1:A:387:LEU:HD23	1.92	0.51
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.92	0.51
1:B:564:GLN:O	1:B:577:ARG:N	2.43	0.51
1:A:755:GLN:NE2	1:C:971:GLY:H	2.08	0.51
1:A:773:GLU:HG2	1:A:1019:ARG:HH21	1.74	0.51
1:C:709:ASN:OD1	1:C:709:ASN:N	2.41	0.51
1:C:112:SER:HB3	1:C:134:GLN:HG3	1.91	0.51
1:C:329:PHE:HZ	1:C:544:ASN:H	1.57	0.51
1:B:390:LEU:HD12	1:B:391:CYS:H	1.76	0.51
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.91	0.51
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.73	0.51
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.92	0.51
1:A:440:ASN:OD1	1:A:440:ASN:N	2.43	0.51
1:A:574:ASP:OD1	1:A:574:ASP:N	2.43	0.51
1:A:985:ASP:OD1	1:A:985:ASP:N	2.33	0.51
1:C:517:LEU:HG	1:C:518:LEU:HD22	1.92	0.51
1:A:1033:VAL:HG11	1:A:1053:PRO:HG3	1.92	0.51
1:B:1002:GLN:HA	1:B:1005:GLN:HG3	1.92	0.51
1:A:151:SER:HB2	1:A:153:MET:HE3	1.92	0.51
1:A:316:SER:OG	1:A:317:ASN:N	2.44	0.51
1:B:392:PHE:HD1	1:B:517:LEU:HD13	1.75	0.51
1:C:299:THR:HG21	1:C:597:VAL:HG11	1.92	0.51
1:A:533:LEU:HD21	1:A:585:LEU:HD11	1.91	0.51
1:B:390:LEU:HD12	1:B:391:CYS:H	1.75	0.51
1:B:815:ARG:NH1	1:B:867:ASP:OD1	2.43	0.51
1:A:914:ASN:OD1	1:A:914:ASN:N	2.43	0.51
1:A:560:LEU:HD23	1:A:562:PHE:H	1.76	0.51
1:A:334:ASN:ND2	1:A:360:ASN:O	2.41	0.51
1:A:35:GLY:HA3	1:A:56:LEU:HB3	1.93	0.51
1:A:120:VAL:HB	1:A:127:VAL:HB	1.92	0.51
1:C:273:ARG:NH1	1:C:290:ASP:OD2	2.44	0.51
1:A:393:THR:HA	1:A:522:ALA:HA	1.93	0.51
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.91	0.51
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.91	0.51
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.91	0.51
1:A:384:PRO:HA	1:A:387:LEU:HD23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:326:ILE:HD13	1:C:533:LEU:HD12	1.93	0.51
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.91	0.51
1:C:599:THR:HB	1:C:608:VAL:HG23	1.92	0.51
1:B:33:THR:OG1	1:B:219:GLY:O	2.22	0.51
1:B:105:ILE:HG23	1:B:239:GLN:HB2	1.92	0.51
1:C:599:THR:HB	1:C:608:VAL:HG23	1.93	0.51
1:C:650:LEU:HD13	1:C:653:ALA:HB3	1.92	0.51
1:A:1105:THR:HG21	1:A:1110:TYR:HA	1.93	0.51
1:A:971:GLY:HA3	1:A:995:ARG:HH22	1.76	0.51
1:C:897:PRO:HG2	1:C:900:MET:HB2	1.92	0.51
1:B:785:VAL:HG12	1:B:787:GLN:H	1.74	0.51
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.92	0.51
1:A:64:TRP:HE1	1:A:264:ALA:HB1	1.76	0.51
1:A:403:ARG:NE	1:A:406:GLU:OE1	2.40	0.51
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.75	0.51
1:B:726:ILE:HD13	1:B:1061:VAL:HG22	1.92	0.51
1:A:911:VAL:HG11	1:A:1067:TYR:HE1	1.76	0.51
1:A:33:THR:OG1	1:A:219:GLY:O	2.27	0.51
1:A:702:GLU:HA	1:B:788:ILE:HB	1.93	0.51
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.93	0.51
1:B:1013:ILE:HD13	1:C:1012:LEU:HG	1.92	0.51
1:A:317:ASN:HD21	1:A:592:PHE:HB2	1.75	0.51
1:C:326:ILE:HD13	1:C:533:LEU:HD12	1.93	0.51
1:A:130:VAL:HG21	1:A:231:ILE:HD11	1.93	0.51
1:A:881:THR:HG22	1:A:882:ILE:HD13	1.91	0.51
1:A:58:PHE:HD2	1:A:290:ASP:HB2	1.76	0.51
1:A:111:ASP:OD1	1:A:111:ASP:N	2.43	0.51
1:B:37:TYR:OH	1:B:54:LEU:O	2.24	0.51
1:A:742:ILE:HG21	1:A:997:ILE:HG22	1.92	0.51
1:B:905:ARG:HE	1:B:1050:MET:HB3	1.75	0.51
1:C:737:ASP:OD2	1:C:740:MET:N	2.42	0.51
1:A:370:ASN:N	1:A:370:ASN:HD22	2.08	0.51
1:A:501:TYR:O	1:A:506:GLN:NE2	2.43	0.51
1:C:1073:LYS:HE3	1:C:1075:PHE:HZ	1.75	0.51
1:B:117:LEU:HG	1:B:233:ILE:HD11	1.93	0.51
1:B:33:THR:OG1	1:B:219:GLY:O	2.29	0.51
1:B:577:ARG:HH21	1:B:584:ILE:HD11	1.75	0.51
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.93	0.51
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.91	0.51
1:C:317:ASN:HD21	1:C:592:PHE:HD1	1.59	0.51
1:B:317:ASN:ND2	1:C:737:ASP:OD1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:769:GLY:HA2	1:C:772:VAL:HG12	1.93	0.51
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.23	0.51
1:A:547:THR:O	1:B:978:ASN:ND2	2.43	0.51
1:C:102:ARG:HE	1:C:246:ILE:HD11	1.74	0.51
1:C:105:ILE:HB	1:C:239:GLN:HB3	1.92	0.51
1:A:34:ARG:HH22	1:A:220:PHE:HA	1.75	0.51
1:B:726:ILE:HG22	1:B:1061:VAL:HG22	1.92	0.51
1:C:206:LYS:HG2	1:C:224:GLU:H	1.76	0.51
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.75	0.51
1:C:106:PHE:O	1:C:117:LEU:N	2.41	0.51
1:C:614:GLY:N	1:C:647:ALA:O	2.41	0.51
1:C:599:THR:HB	1:C:608:VAL:HG23	1.92	0.51
1:A:644:GLN:NE2	1:A:645:THR:O	2.43	0.51
1:B:614:GLY:N	1:B:647:ALA:O	2.35	0.51
1:C:409:GLN:HE22	1:C:417:ASN:HB3	1.76	0.51
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.37	0.51
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.92	0.51
1:A:873:TYR:O	1:A:877:LEU:HB2	2.11	0.51
1:B:34:ARG:NH2	1:B:221:SER:H	2.08	0.51
1:B:729:VAL:HG21	1:B:781:VAL:HG11	1.92	0.51
1:A:326:ILE:HD11	1:A:534:VAL:HG22	1.93	0.51
1:A:599:THR:HB	1:A:608:VAL:HG23	1.91	0.51
1:A:864:LEU:HD12	1:A:865:LEU:HD13	1.92	0.51
1:A:997:ILE:O	1:A:1001:LEU:HB3	2.11	0.51
1:B:699:LEU:HG	1:C:873:TYR:HE1	1.76	0.51
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.93	0.51
1:A:327:VAL:HA	1:A:542:ASN:HB3	1.92	0.51
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.93	0.51
1:A:740:MET:HE1	1:A:857:GLY:HA3	1.92	0.51
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.29	0.51
1:C:611:LEU:HB2	1:C:650:LEU:HD13	1.92	0.51
1:A:734:THR:HG21	1:A:959:LEU:HD21	1.92	0.51
1:A:806:LEU:HD22	1:A:878:LEU:HD21	1.92	0.51
1:B:729:VAL:HG21	1:B:781:VAL:HG11	1.91	0.51
1:B:506:GLN:HG3	1:B:507:PRO:HD2	1.92	0.51
1:C:383:SER:O	1:C:387:LEU:HB2	2.10	0.51
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.27	0.51
1:A:904:TYR:OH	1:C:1093:GLY:O	2.16	0.51
1:B:405:ASP:N	1:B:405:ASP:OD1	2.43	0.51
1:A:87:ASN:OD1	1:A:87:ASN:N	2.43	0.51
1:A:120:VAL:HB	1:A:127:VAL:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.23	0.51
1:B:678:ILE:HD11	1:B:684:ALA:HB2	1.93	0.51
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.29	0.51
1:A:1091:ARG:NH1	1:A:1118:ASP:O	2.36	0.51
1:C:393:THR:HA	1:C:522:ALA:HA	1.91	0.51
1:C:402:ILE:HD12	1:C:418:ILE:HG21	1.93	0.51
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.91	0.51
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.92	0.51
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.39	0.51
1:A:802:PHE:HB3	1:A:806:LEU:HD23	1.93	0.51
1:B:37:TYR:OH	1:B:195:LYS:NZ	2.43	0.51
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.19	0.51
1:B:712:ILE:HG12	1:B:1094:VAL:HG11	1.92	0.51
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.92	0.51
1:A:105:ILE:HG22	1:A:239:GLN:HB3	1.93	0.51
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.93	0.51
1:A:777:ASN:HA	1:A:780:GLU:HG3	1.92	0.51
1:C:877:LEU:O	1:C:881:THR:OG1	2.25	0.51
1:A:56:LEU:HD22	1:A:91:TYR:HD1	1.76	0.51
1:A:1139:ASP:HB3	1:A:1142:GLN:HG2	1.92	0.51
1:B:37:TYR:OH	1:B:195:LYS:NZ	2.41	0.51
1:C:440:ASN:OD1	1:C:440:ASN:N	2.42	0.51
1:A:592:PHE:HZ	1:B:857:GLY:HA2	1.76	0.51
1:B:462:LYS:NZ	1:B:465:GLU:OE1	2.35	0.51
1:C:1118:ASP:OD2	1:C:1118:ASP:N	2.39	0.51
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.92	0.51
1:B:1013:ILE:HD13	1:C:1012:LEU:HG	1.92	0.51
1:C:1008:VAL:O	1:C:1012:LEU:HB2	2.11	0.51
1:B:102:ARG:HH21	1:B:246:ILE:HG12	1.76	0.51
1:B:129:LYS:HZ3	1:B:169:GLU:HB2	1.75	0.51
1:C:358:ILE:HB	1:C:395:VAL:HG23	1.93	0.51
1:A:102:ARG:NH2	1:A:121:ASN:O	2.43	0.51
1:C:360:ASN:H	1:C:523:THR:HB	1.76	0.51
1:A:111:ASP:OD1	1:A:111:ASP:N	2.41	0.51
1:A:277:LEU:HD12	1:A:285:ILE:HD13	1.92	0.51
1:A:414:GLN:HA	1:A:414:GLN:NE2	2.26	0.51
1:B:360:ASN:H	1:B:523:THR:HB	1.75	0.51
1:C:317:ASN:HD21	1:C:592:PHE:HD2	1.58	0.51
1:C:908:GLY:O	1:C:1038:LYS:NZ	2.37	0.51
1:A:819:GLU:HA	1:A:822:LEU:HG	1.93	0.51
1:C:1052:PHE:HB2	1:C:1063:LEU:HG	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.91	0.51
1:C:1029:MET:HE2	1:C:1033:VAL:HG21	1.92	0.51
1:A:372:ALA:O	1:C:403:ARG:NH2	2.31	0.51
1:A:81:ASN:O	1:A:239:GLN:NE2	2.36	0.51
1:B:312:ILE:HD11	1:B:676:ILE:HB	1.92	0.51
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.92	0.51
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.92	0.51
1:A:334:ASN:ND2	1:A:360:ASN:O	2.40	0.51
1:B:738:CYS:O	1:B:742:ILE:HB	2.11	0.51
1:B:1031:GLU:OE2	1:B:1039:ARG:NH2	2.42	0.51
1:A:229:LEU:HD12	1:A:230:PRO:HD2	1.93	0.51
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.92	0.51
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.92	0.51
1:B:471:GLU:OE2	1:C:113:LYS:NZ	2.40	0.51
1:C:91:TYR:OH	1:C:191:GLU:OE1	2.28	0.51
1:A:762:GLN:HA	1:A:765:ARG:HE	1.76	0.51
1:A:134:GLN:NE2	1:A:162:SER:H	2.10	0.50
1:B:915:VAL:O	1:B:919:ASN:HB2	2.11	0.50
1:C:918:GLU:N	1:C:918:GLU:OE1	2.43	0.50
1:C:177:MET:SD	1:C:190:ARG:NH2	2.85	0.50
1:A:745:ASP:OD2	1:C:319:ARG:NH1	2.44	0.50
1:C:108:THR:O	1:C:237:ARG:NH2	2.44	0.50
1:C:298:GLU:HB3	1:C:315:THR:HG21	1.93	0.50
1:A:983:ARG:HG3	1:A:984:LEU:HD23	1.92	0.50
1:C:45:SER:HA	1:C:279:TYR:HB3	1.93	0.50
1:C:326:ILE:HD13	1:C:533:LEU:HD12	1.94	0.50
1:B:785:VAL:HG12	1:B:787:GLN:H	1.76	0.50
1:B:139:PRO:HG2	1:B:245:HIS:HE1	1.76	0.50
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.93	0.50
1:A:576:VAL:HG12	1:A:587:ILE:HD11	1.91	0.50
1:B:384:PRO:HA	1:B:387:LEU:HD23	1.92	0.50
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.93	0.50
1:A:382:VAL:HG21	1:A:515:PHE:HZ	1.76	0.50
1:A:115:GLN:HB2	1:A:233:ILE:HG12	1.93	0.50
1:C:973:ILE:HG21	1:C:983:ARG:HH12	1.76	0.50
1:B:15:CYS:SG	1:B:137:ASN:N	2.83	0.50
1:B:465:GLU:OE1	1:C:234:ASN:ND2	2.32	0.50
1:C:916:LEU:HD23	1:C:917:TYR:HD2	1.76	0.50
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.93	0.50
1:B:738:CYS:O	1:B:742:ILE:HB	2.12	0.50
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	1.93	0.50
1:B:472:ILE:HD13	1:B:484:LYS:HB2	1.91	0.50
1:C:350:VAL:HG22	1:C:400:PHE:HB2	1.94	0.50
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.93	0.50
1:C:33:THR:OG1	1:C:219:GLY:O	2.27	0.50
1:B:1031:GLU:HG3	1:B:1039:ARG:HH22	1.77	0.50
1:C:177:MET:HE3	1:C:178:ASP:H	1.76	0.50
1:C:440:ASN:N	1:C:440:ASN:OD1	2.40	0.50
1:B:276:LEU:HG	1:B:306:PHE:HE1	1.75	0.50
1:B:1139:ASP:HB3	1:B:1142:GLN:HG2	1.94	0.50
1:B:85:PRO:HA	1:B:237:ARG:HE	1.77	0.50
1:C:33:THR:OG1	1:C:219:GLY:O	2.22	0.50
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.26	0.50
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.94	0.50
1:A:1139:ASP:HB3	1:A:1142:GLN:HG2	1.93	0.50
1:B:984:LEU:HB2	1:B:989:ALA:HB2	1.94	0.50
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.84	0.50
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.50
1:B:55:PHE:HB2	1:B:273:ARG:HB2	1.93	0.50
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.93	0.50
1:C:222:ALA:HB2	1:C:285:ILE:HB	1.93	0.50
1:C:737:ASP:OD2	1:C:740:MET:N	2.42	0.50
1:A:222:ALA:HB2	1:A:285:ILE:HB	1.93	0.50
1:B:569:ILE:HG22	1:C:47:VAL:HG12	1.93	0.50
1:A:745:ASP:OD1	1:C:319:ARG:NH1	2.42	0.50
1:B:577:ARG:HH21	1:B:582:LEU:HD13	1.76	0.50
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.92	0.50
1:A:1012:LEU:HD12	1:C:1013:ILE:HD13	1.92	0.50
1:B:34:ARG:NH1	1:B:219:GLY:O	2.45	0.50
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.93	0.50
1:C:491:PRO:HG2	1:C:492:LEU:HD22	1.93	0.50
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.41	0.50
1:B:117:LEU:HB2	1:B:233:ILE:HD11	1.93	0.50
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.93	0.50
1:A:751:ASN:HA	1:A:754:LEU:HG	1.93	0.50
1:B:688:THR:HA	1:B:690:GLN:HG2	1.92	0.50
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.93	0.50
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.45	0.50
1:C:767:LEU:HA	1:C:770:ILE:HG22	1.92	0.50
1:A:985:ASP:OD1	1:A:987:PRO:HD2	2.11	0.50
1:C:129:LYS:NZ	1:C:168:PHE:O	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:393:THR:OG1	1:B:394:ASN:OD1	2.30	0.50
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.75	0.50
1:A:1031:GLU:CD	1:C:1039:ARG:HG3	2.37	0.50
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.93	0.50
1:A:1033:VAL:HG11	1:A:1053:PRO:HG3	1.93	0.50
1:A:151:SER:HB2	1:A:153:MET:HE3	1.94	0.50
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.75	0.50
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.29	0.50
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.92	0.50
1:A:53:ASP:OD1	1:A:54:LEU:N	2.44	0.50
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.92	0.50
1:C:788:ILE:HG13	1:C:876:ALA:HB2	1.93	0.50
1:C:954:GLN:HE22	1:C:1014:ARG:HH11	1.59	0.50
1:A:409:GLN:HA	1:A:414:GLN:HG2	1.93	0.50
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.93	0.50
1:B:351:TYR:HE2	1:B:452:LEU:HB2	1.75	0.50
1:A:334:ASN:ND2	1:A:360:ASN:O	2.41	0.50
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.29	0.50
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.92	0.50
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.27	0.50
1:A:111:ASP:OD1	1:A:111:ASP:N	2.43	0.50
1:A:403:ARG:NH2	1:B:372:ALA:O	2.36	0.50
1:C:467:ASP:OD2	1:C:467:ASP:N	2.42	0.50
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.91	0.50
1:A:886:TRP:HB3	1:A:1035:GLY:HA2	1.94	0.50
1:C:452:LEU:HD23	1:C:492:LEU:HB3	1.93	0.50
1:C:599:THR:HB	1:C:608:VAL:HG23	1.94	0.50
1:A:14:GLN:O	1:A:158:ARG:NE	2.43	0.50
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.29	0.50
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.41	0.50
1:B:102:ARG:HH12	1:B:123:ALA:HB2	1.76	0.50
1:C:39:PRO:HG3	1:C:51:THR:HG21	1.92	0.50
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.29	0.50
1:B:34:ARG:HH22	1:B:220:PHE:HA	1.76	0.50
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.94	0.50
1:A:108:THR:O	1:A:237:ARG:NH1	2.45	0.50
1:B:44:ARG:HH11	1:B:49:HIS:HB3	1.77	0.50
1:B:950:ASP:OD1	1:B:950:ASP:N	2.44	0.50
1:C:393:THR:HB	1:C:520:ALA:HB3	1.93	0.50
1:A:111:ASP:OD1	1:A:111:ASP:N	2.43	0.50
1:C:619:GLU:N	1:C:619:GLU:OE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:ASN:OD1	1:A:87:ASN:N	2.44	0.50
1:B:403:ARG:NH2	1:C:372:ALA:O	2.35	0.50
1:A:108:THR:O	1:A:237:ARG:NH2	2.45	0.50
1:A:574:ASP:OD1	1:A:574:ASP:N	2.45	0.50
1:C:338:PHE:HA	1:C:341:VAL:HG12	1.94	0.50
1:C:1039:ARG:HD2	1:C:1042:PHE:HB2	1.94	0.50
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.29	0.50
1:A:726:ILE:HG22	1:A:1061:VAL:HG22	1.93	0.50
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.91	0.50
1:B:440:ASN:OD1	1:B:440:ASN:N	2.42	0.50
1:B:236:THR:O	1:B:237:ARG:NE	2.44	0.50
1:B:33:THR:OG1	1:B:219:GLY:O	2.29	0.50
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.94	0.50
1:A:503:VAL:HA	1:A:506:GLN:HG3	1.93	0.50
1:C:393:THR:HA	1:C:522:ALA:HA	1.93	0.50
1:A:984:LEU:HB2	1:A:989:ALA:HB2	1.94	0.50
1:B:547:THR:O	1:C:978:ASN:ND2	2.44	0.50
1:C:454:ARG:NH1	1:C:456:PHE:O	2.44	0.50
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.93	0.50
1:C:726:ILE:HG13	1:C:948:LEU:HD23	1.93	0.50
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.92	0.50
1:A:951:VAL:HA	1:A:954:GLN:HG3	1.93	0.50
1:B:390:LEU:HD12	1:B:391:CYS:H	1.76	0.50
1:C:392:PHE:HB2	1:C:524:VAL:HG23	1.92	0.50
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.22	0.50
1:B:389:ASP:OD1	1:B:528:LYS:NZ	2.43	0.50
1:C:195:LYS:HG2	1:C:202:LYS:HB2	1.94	0.50
1:B:194:PHE:HB3	1:B:201:PHE:HE1	1.76	0.50
1:C:598:ILE:HD11	1:C:678:ILE:HD13	1.92	0.50
1:A:113:LYS:NZ	1:C:471:GLU:OE2	2.45	0.50
1:B:902:MET:HB3	1:B:916:LEU:HD11	1.93	0.50
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.28	0.50
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.23	0.50
1:B:613:GLN:HA	1:B:648:GLY:HA3	1.94	0.50
1:B:1054:GLN:N	1:B:1061:VAL:O	2.45	0.50
1:C:1091:ARG:HH12	1:C:1121:PHE:HB3	1.75	0.50
1:A:89:GLY:HA3	1:A:270:LEU:HD12	1.94	0.50
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.76	0.50
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.94	0.50
1:B:303:LEU:HD23	1:B:308:VAL:HG22	1.93	0.50
1:A:777:ASN:HA	1:A:780:GLU:HG3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:290:ASP:HB3	1:C:293:LEU:HB2	1.93	0.50
1:C:382:VAL:HG21	1:C:515:PHE:HZ	1.77	0.50
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.93	0.50
1:A:931:ILE:HA	1:A:934:ILE:HG22	1.94	0.50
1:A:1033:VAL:HG11	1:A:1053:PRO:HG3	1.93	0.50
1:C:912:THR:H	1:C:1106:GLN:HE22	1.59	0.50
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.38	0.50
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.93	0.50
1:C:58:PHE:HB2	1:C:293:LEU:HD22	1.92	0.50
1:C:741:TYR:OH	1:C:1003:SER:OG	2.28	0.50
1:A:931:ILE:HA	1:A:934:ILE:HG22	1.94	0.50
1:B:105:ILE:HG13	1:B:241:LEU:HD11	1.92	0.50
1:C:871:ALA:HA	1:C:874:THR:HG22	1.93	0.50
1:A:177:MET:SD	1:A:190:ARG:NH2	2.85	0.50
1:A:1005:GLN:HE21	1:C:1006:THR:HG21	1.77	0.50
1:B:650:LEU:HD13	1:B:653:ALA:HB3	1.93	0.50
1:C:611:LEU:HB2	1:C:650:LEU:HD13	1.92	0.50
1:C:360:ASN:H	1:C:523:THR:HB	1.75	0.50
1:C:905:ARG:HH12	1:C:1036:GLN:HB2	1.76	0.50
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.26	0.50
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.94	0.50
1:C:902:MET:HB3	1:C:916:LEU:HD11	1.93	0.50
1:B:951:VAL:HA	1:B:954:GLN:HG3	1.94	0.50
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.92	0.50
1:C:214:ARG:HD2	1:C:215:GLY:H	1.75	0.50
1:A:111:ASP:OD2	1:A:111:ASP:N	2.44	0.50
1:A:206:LYS:HG2	1:A:224:GLU:H	1.77	0.50
1:B:699:LEU:HG	1:C:873:TYR:HE1	1.77	0.50
1:B:826:VAL:HB	1:B:1057:PRO:HG2	1.93	0.50
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.92	0.50
1:C:106:PHE:O	1:C:117:LEU:N	2.37	0.50
1:A:533:LEU:HD21	1:A:585:LEU:HD11	1.92	0.50
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.76	0.50
1:A:547:THR:O	1:B:978:ASN:ND2	2.45	0.50
1:A:777:ASN:O	1:A:781:VAL:HG12	2.11	0.50
1:A:360:ASN:HD22	1:A:360:ASN:C	2.16	0.50
1:B:1086:LYS:HA	1:B:1125:ASN:HA	1.93	0.50
1:C:38:TYR:HE2	1:C:224:GLU:HG3	1.77	0.50
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.93	0.50
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.43	0.50
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:393:THR:OG1	1:C:394:ASN:N	2.44	0.50
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.40	0.50
1:B:34:ARG:NH2	1:B:221:SER:H	2.10	0.50
1:B:569:ILE:HA	1:C:47:VAL:HG12	1.92	0.50
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.92	0.50
1:B:664:ILE:HD12	1:B:665:PRO:HD2	1.93	0.50
1:C:374:PHE:HB3	1:C:436:TRP:HD1	1.77	0.50
1:A:398:ASP:OD2	1:A:423:TYR:OH	2.23	0.50
1:B:978:ASN:HA	1:B:981:LEU:HG	1.94	0.50
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.94	0.50
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.93	0.50
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.94	0.50
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.77	0.50
1:B:22:THR:OG1	1:B:78:ARG:NH1	2.45	0.50
1:B:978:ASN:HA	1:B:981:LEU:HG	1.93	0.50
1:A:722:VAL:HG21	1:A:931:ILE:HD13	1.94	0.50
1:A:47:VAL:HG12	1:C:569:ILE:HA	1.94	0.50
1:A:983:ARG:HH11	1:C:517:LEU:HD11	1.77	0.50
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.94	0.50
1:B:712:ILE:HG12	1:B:1094:VAL:HG11	1.94	0.50
1:A:809:PRO:O	1:A:814:LYS:NZ	2.39	0.50
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.30	0.50
1:B:34:ARG:NH2	1:B:221:SER:H	2.10	0.50
1:A:398:ASP:OD2	1:A:423:TYR:OH	2.28	0.50
1:B:431:GLY:HA2	1:B:515:PHE:CZ	2.47	0.50
1:A:278:LYS:HB2	1:A:306:PHE:CE1	2.46	0.50
1:B:679:GLY:HA2	1:C:864:LEU:HD12	1.94	0.50
1:B:962:LEU:HD22	1:B:1007:TYR:HE2	1.75	0.50
1:C:552:LEU:HB2	1:C:585:LEU:HD22	1.94	0.50
1:A:80:ALA:O	1:A:245:HIS:NE2	2.45	0.50
1:C:782:PHE:HE1	1:C:870:ILE:HD11	1.77	0.50
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.94	0.50
1:A:1106:GLN:NE2	1:A:1111:GLU:OE2	2.45	0.50
1:B:195:LYS:HD3	1:B:204:TYR:HE1	1.77	0.50
1:B:185:ASN:HB2	1:B:213:VAL:HA	1.94	0.50
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.94	0.50
1:C:426:PRO:HA	1:C:463:PRO:HB3	1.92	0.50
1:C:708:SER:HB3	1:C:711:SER:HB3	1.94	0.50
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.92	0.50
1:B:119:ILE:HG12	1:B:128:ILE:HG12	1.93	0.50
1:C:599:THR:HB	1:C:608:VAL:HG23	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:877:LEU:HD21	1:B:1029:MET:HE1	1.94	0.50
1:C:972:ALA:HA	1:C:995:ARG:HH22	1.77	0.50
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.92	0.50
1:B:431:GLY:HA2	1:B:515:PHE:CZ	2.47	0.50
1:A:204:TYR:HB3	1:A:223:LEU:HG	1.94	0.50
1:A:561:PRO:HA	1:A:577:ARG:HH12	1.77	0.50
1:A:344:ALA:O	1:A:509:ARG:NH1	2.45	0.49
1:A:702:GLU:HA	1:B:788:ILE:HB	1.94	0.49
1:B:14:GLN:N	1:B:255:SER:HG	2.09	0.49
1:B:332:ILE:HA	1:B:524:VAL:HG22	1.94	0.49
1:C:642:VAL:HG13	1:C:651:ILE:HG22	1.93	0.49
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.76	0.49
1:A:111:ASP:OD1	1:A:111:ASP:N	2.45	0.49
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.94	0.49
1:B:950:ASP:OD1	1:B:950:ASP:N	2.42	0.49
1:A:392:PHE:HB2	1:A:524:VAL:HG23	1.94	0.49
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.30	0.49
1:A:302:THR:O	1:A:304:LYS:NZ	2.44	0.49
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.93	0.49
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.93	0.49
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.94	0.49
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.28	0.49
1:C:730:SER:OG	1:C:731:MET:N	2.45	0.49
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.93	0.49
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.94	0.49
1:C:119:ILE:HG22	1:C:128:ILE:HD13	1.93	0.49
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.77	0.49
1:B:394:ASN:OD1	1:B:394:ASN:N	2.45	0.49
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.94	0.49
1:C:561:PRO:O	1:C:577:ARG:NH1	2.42	0.49
1:C:53:ASP:HB3	1:C:55:PHE:HE1	1.77	0.49
1:A:81:ASN:ND2	1:A:138:ASP:OD1	2.45	0.49
1:B:950:ASP:OD1	1:B:950:ASP:N	2.44	0.49
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.92	0.49
1:C:552:LEU:HD22	1:C:585:LEU:HD13	1.94	0.49
1:B:403:ARG:NH2	1:C:372:ALA:O	2.37	0.49
1:A:386:LYS:NZ	1:B:981:LEU:O	2.35	0.49
1:A:1010:GLN:HE21	1:A:1010:GLN:C	2.21	0.49
1:A:726:ILE:HG22	1:A:1061:VAL:HG22	1.93	0.49
1:A:483:VAL:HG12	1:A:484:LYS:HD3	1.94	0.49
1:B:985:ASP:OD2	1:B:985:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:752:LEU:HD23	1:C:993:ILE:HG22	1.94	0.49
1:C:440:ASN:N	1:C:440:ASN:OD1	2.41	0.49
1:A:561:PRO:O	1:A:577:ARG:NH1	2.45	0.49
1:A:143:VAL:HG22	1:A:154:GLU:HA	1.94	0.49
1:B:978:ASN:HA	1:B:981:LEU:HG	1.93	0.49
1:B:726:ILE:HD13	1:B:1061:VAL:HG22	1.93	0.49
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.93	0.49
1:C:87:ASN:OD1	1:C:87:ASN:N	2.43	0.49
1:C:650:LEU:HD13	1:C:653:ALA:HB3	1.94	0.49
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.94	0.49
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.36	0.49
1:A:574:ASP:OD1	1:A:574:ASP:N	2.45	0.49
1:C:825:LYS:HD2	1:C:942:ALA:HA	1.93	0.49
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.93	0.49
1:C:484:LYS:HE3	1:C:489:TYR:HA	1.93	0.49
1:A:726:ILE:HD13	1:A:1061:VAL:HG22	1.94	0.49
1:B:276:LEU:HD11	1:B:304:LYS:HE2	1.95	0.49
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.22	0.49
1:A:111:ASP:OD1	1:A:111:ASP:N	2.43	0.49
1:B:353:TRP:HE1	1:B:466:ARG:HB2	1.77	0.49
1:B:403:ARG:HB2	1:B:495:TYR:CE2	2.46	0.49
1:A:765:ARG:HH22	1:C:957:GLN:HE21	1.59	0.49
1:B:517:LEU:HD11	1:C:983:ARG:HH11	1.76	0.49
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.94	0.49
1:B:719:THR:HG23	1:B:1070:ALA:HB2	1.94	0.49
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.29	0.49
1:C:147:LYS:HB3	1:C:153:MET:HE2	1.93	0.49
1:C:599:THR:HB	1:C:608:VAL:HG23	1.95	0.49
1:A:735:SER:O	1:A:859:THR:OG1	2.26	0.49
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.92	0.49
1:B:389:ASP:OD1	1:B:389:ASP:N	2.40	0.49
1:B:433:VAL:HA	1:B:512:VAL:HG12	1.94	0.49
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.93	0.49
1:C:491:PRO:HG2	1:C:492:LEU:HD22	1.93	0.49
1:B:105:ILE:HG13	1:B:241:LEU:HD11	1.95	0.49
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.94	0.49
1:B:699:LEU:HG	1:C:873:TYR:HE1	1.77	0.49
1:A:22:THR:O	1:A:78:ARG:NH1	2.45	0.49
1:B:64:TRP:HE1	1:B:264:ALA:HB1	1.77	0.49
1:B:1116:THR:OG1	1:B:1118:ASP:OD2	2.30	0.49
1:A:791:THR:HG21	1:A:806:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1046:GLY:HA2	1:C:890:ALA:HA	1.95	0.49
1:A:563:GLN:HG2	1:B:43:PHE:HD1	1.76	0.49
1:C:118:LEU:HD11	1:C:135:PHE:HZ	1.77	0.49
1:C:752:LEU:HD11	1:C:994:ASP:HB3	1.94	0.49
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.42	0.49
1:B:983:ARG:HG3	1:B:984:LEU:HD22	1.94	0.49
1:C:756:TYR:HB3	1:C:759:PHE:CZ	2.47	0.49
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.25	0.49
1:B:598:ILE:HD11	1:B:611:LEU:HD23	1.95	0.49
1:C:687:GLN:HG2	1:C:693:ILE:HD13	1.94	0.49
1:C:1086:LYS:HE3	1:C:1122:VAL:HG11	1.93	0.49
1:C:105:ILE:HG23	1:C:239:GLN:HB2	1.93	0.49
1:C:546:LEU:HD21	1:C:573:THR:HG21	1.93	0.49
1:C:738:CYS:O	1:C:742:ILE:HB	2.12	0.49
1:A:440:ASN:OD1	1:A:440:ASN:N	2.45	0.49
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.29	0.49
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.94	0.49
1:B:15:CYS:SG	1:B:137:ASN:N	2.83	0.49
1:A:1116:THR:HG22	1:A:1138:TYR:HD1	1.77	0.49
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.94	0.49
1:B:1107:ARG:NH2	1:C:904:TYR:OH	2.39	0.49
1:C:884:SER:OG	1:C:887:THR:OG1	2.24	0.49
1:B:902:MET:HE1	1:B:1050:MET:HE2	1.94	0.49
1:B:777:ASN:HD21	1:B:1019:ARG:HD2	1.77	0.49
1:C:866:THR:OG1	1:C:867:ASP:OD2	2.30	0.49
1:A:222:ALA:HB2	1:A:285:ILE:HB	1.94	0.49
1:C:191:GLU:HG2	1:C:223:LEU:HD21	1.92	0.49
1:C:394:ASN:OD1	1:C:394:ASN:N	2.45	0.49
1:C:742:ILE:HG21	1:C:753:LEU:HG	1.93	0.49
1:B:521:PRO:HD3	1:C:41:LYS:HE2	1.95	0.49
1:C:1086:LYS:HE3	1:C:1122:VAL:HG11	1.93	0.49
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.78	0.49
1:C:599:THR:HB	1:C:608:VAL:HG23	1.94	0.49
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.30	0.49
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.94	0.49
1:C:1086:LYS:HE3	1:C:1122:VAL:HG11	1.94	0.49
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.29	0.49
1:A:737:ASP:OD2	1:C:317:ASN:ND2	2.46	0.49
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.78	0.49
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	1.94	0.49
1:B:972:ALA:HB2	1:B:996:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:58:PHE:CD2	1:C:290:ASP:HB2	2.47	0.49
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.94	0.49
1:B:193:VAL:HB	1:B:204:TYR:HB2	1.93	0.49
1:C:866:THR:H	1:C:869:MET:HE2	1.76	0.49
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.95	0.49
1:B:106:PHE:HE2	1:B:119:ILE:HD12	1.77	0.49
1:A:791:THR:HG21	1:A:806:LEU:HD11	1.94	0.49
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.93	0.49
1:A:39:PRO:HG3	1:A:51:THR:HG21	1.94	0.49
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	1.95	0.49
1:A:755:GLN:HE22	1:C:971:GLY:H	1.60	0.49
1:B:276:LEU:HG	1:B:306:PHE:HE1	1.78	0.49
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.38	0.49
1:C:774:GLN:HA	1:C:774:GLN:HE21	1.78	0.49
1:A:222:ALA:HB2	1:A:285:ILE:HB	1.93	0.49
1:B:731:MET:H	1:B:774:GLN:HE22	1.58	0.49
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.77	0.49
1:C:299:THR:HG22	1:C:597:VAL:HG21	1.94	0.49
1:A:99:ASN:OD1	1:A:190:ARG:NH2	2.41	0.49
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.95	0.49
1:C:106:PHE:HB3	1:C:235:ILE:HD12	1.95	0.49
1:A:809:PRO:O	1:A:814:LYS:NZ	2.41	0.49
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.42	0.49
1:C:33:THR:OG1	1:C:219:GLY:O	2.26	0.49
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.37	0.49
1:A:983:ARG:O	1:C:383:SER:N	2.37	0.49
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.94	0.49
1:C:619:GLU:N	1:C:619:GLU:OE1	2.46	0.49
1:A:767:LEU:HA	1:A:770:ILE:HG22	1.94	0.49
1:C:564:GLN:OE1	1:C:577:ARG:NH2	2.46	0.49
1:C:733:LYS:HE3	1:C:771:ALA:HB1	1.94	0.49
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.94	0.49
1:B:393:THR:HA	1:B:522:ALA:HA	1.94	0.49
1:B:619:GLU:N	1:B:619:GLU:OE1	2.46	0.49
1:B:731:MET:H	1:B:774:GLN:NE2	2.11	0.49
1:A:517:LEU:HD11	1:B:983:ARG:HD2	1.94	0.49
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.95	0.49
1:A:517:LEU:HD11	1:B:983:ARG:HH11	1.78	0.49
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.29	0.49
1:A:386:LYS:NZ	1:B:981:LEU:O	2.46	0.49
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:576:VAL:HG12	1:B:587:ILE:HD11	1.94	0.49
1:B:775:ASP:HB3	1:B:864:LEU:HD13	1.94	0.49
1:C:822:LEU:HD13	1:C:1056:ALA:HB2	1.95	0.49
1:A:91:TYR:OH	1:A:191:GLU:OE2	2.29	0.49
1:A:547:THR:O	1:B:978:ASN:ND2	2.46	0.49
1:B:1079:PRO:HB3	1:C:900:MET:HE1	1.94	0.49
1:C:946:GLY:HA2	1:C:949:GLN:HB2	1.95	0.49
1:B:950:ASP:OD1	1:B:950:ASP:N	2.45	0.49
1:B:58:PHE:HD2	1:B:290:ASP:HB2	1.77	0.49
1:C:728:PRO:HD3	1:C:947:LYS:HG3	1.94	0.49
1:C:756:TYR:HB3	1:C:759:PHE:HD1	1.78	0.49
1:A:315:THR:OG1	1:A:316:SER:N	2.46	0.49
1:A:767:LEU:HD13	1:A:770:ILE:HD11	1.94	0.49
1:B:731:MET:H	1:B:774:GLN:NE2	2.11	0.49
1:C:33:THR:OG1	1:C:219:GLY:O	2.28	0.49
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.94	0.49
1:A:58:PHE:HD2	1:A:290:ASP:HB2	1.77	0.49
1:B:34:ARG:NH2	1:B:221:SER:H	2.11	0.49
1:B:273:ARG:HE	1:B:292:ALA:HB3	1.78	0.49
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.94	0.49
1:A:36:VAL:HG13	1:A:222:ALA:HA	1.95	0.49
1:A:501:TYR:O	1:A:506:GLN:NE2	2.44	0.49
1:A:382:VAL:HG21	1:A:515:PHE:HZ	1.78	0.49
1:B:21:ARG:HD3	1:B:79:PHE:HB3	1.93	0.49
1:C:731:MET:H	1:C:774:GLN:NE2	2.10	0.49
1:A:785:VAL:HG12	1:A:787:GLN:H	1.77	0.49
1:C:777:ASN:O	1:C:781:VAL:HG12	2.12	0.49
1:A:762:GLN:HA	1:A:765:ARG:HE	1.77	0.49
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.24	0.49
1:A:390:LEU:HD21	1:A:517:LEU:HD12	1.95	0.49
1:A:398:ASP:OD2	1:A:423:TYR:OH	2.25	0.49
1:B:390:LEU:HD12	1:B:391:CYS:H	1.77	0.49
1:A:598:ILE:HD11	1:A:678:ILE:HD13	1.95	0.49
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.95	0.49
1:B:185:ASN:HB2	1:B:213:VAL:HA	1.95	0.49
1:A:34:ARG:NH2	1:A:221:SER:H	2.11	0.49
1:A:555:SER:HB2	1:A:586:ASP:HB3	1.93	0.49
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.25	0.49
1:B:569:ILE:HG12	1:C:47:VAL:HG22	1.95	0.49
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.77	0.49
1:C:276:LEU:HD11	1:C:304:LYS:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:389:ASP:OD1	1:B:389:ASP:N	2.42	0.49
1:B:642:VAL:HG22	1:B:651:ILE:HD12	1.94	0.49
1:A:777:ASN:HA	1:A:780:GLU:HG3	1.94	0.49
1:C:102:ARG:HD3	1:C:121:ASN:HB3	1.94	0.49
1:A:490:PHE:HD1	1:A:491:PRO:HD2	1.78	0.49
1:A:735:SER:HA	1:A:767:LEU:HD23	1.94	0.49
1:B:102:ARG:NH1	1:B:154:GLU:OE2	2.38	0.49
1:B:48:LEU:HD12	1:B:276:LEU:HD11	1.95	0.49
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.21	0.49
1:A:599:THR:HB	1:A:608:VAL:HG23	1.94	0.49
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.94	0.49
1:B:40:ASP:OD1	1:B:41:LYS:N	2.43	0.49
1:C:370:ASN:HD22	1:C:384:PRO:HB2	1.77	0.49
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.95	0.49
1:C:970:PHE:O	1:C:995:ARG:NH1	2.46	0.49
1:A:802:PHE:HB3	1:A:806:LEU:HD23	1.94	0.49
1:C:229:LEU:HD12	1:C:230:PRO:HD2	1.94	0.49
1:A:501:TYR:HB3	1:A:505:TYR:HB3	1.93	0.49
1:A:222:ALA:HB2	1:A:285:ILE:HB	1.94	0.49
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.95	0.49
1:C:751:ASN:HA	1:C:754:LEU:HG	1.95	0.49
1:A:330:PRO:HG3	1:A:579:PRO:HB2	1.94	0.49
1:A:886:TRP:HB3	1:A:1035:GLY:HA2	1.95	0.49
1:B:719:THR:HG23	1:B:1070:ALA:HB2	1.95	0.49
1:B:884:SER:OG	1:B:887:THR:OG1	2.25	0.49
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.24	0.49
1:A:390:LEU:HD12	1:A:391:CYS:H	1.77	0.49
1:B:719:THR:HG23	1:B:1070:ALA:HB2	1.95	0.49
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.95	0.49
1:A:806:LEU:HD22	1:A:878:LEU:HD21	1.94	0.49
1:B:457:ARG:NE	1:B:459:SER:O	2.46	0.49
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.94	0.49
1:C:785:VAL:HG12	1:C:787:GLN:H	1.78	0.49
1:B:719:THR:HG23	1:B:1068:VAL:HB	1.94	0.49
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.95	0.49
1:B:92:PHE:HE2	1:B:265:TYR:HB2	1.78	0.49
1:A:560:LEU:HD12	1:A:562:PHE:HE1	1.78	0.49
1:B:204:TYR:CZ	1:B:225:PRO:HG3	2.48	0.49
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.94	0.49
1:B:574:ASP:OD1	1:B:574:ASP:N	2.46	0.49
1:B:472:ILE:HD13	1:B:484:LYS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:825:LYS:HD3	1:C:942:ALA:HA	1.95	0.49
1:A:701:VAL:HG13	1:B:787:GLN:HG2	1.95	0.49
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.69	0.49
1:B:353:TRP:HH2	1:B:464:PHE:HA	1.78	0.49
1:B:452:LEU:HA	1:B:494:SER:HA	1.95	0.49
1:C:725:GLU:OE2	1:C:1064:HIS:NE2	2.43	0.49
1:A:884:SER:OG	1:A:887:THR:OG1	2.25	0.49
1:C:80:ALA:O	1:C:245:HIS:NE2	2.46	0.49
1:C:770:ILE:HA	1:C:773:GLU:HG3	1.95	0.49
1:B:34:ARG:HH22	1:B:220:PHE:HA	1.78	0.49
1:A:498:GLN:HB2	1:A:501:TYR:HE2	1.78	0.49
1:A:732:THR:OG1	1:A:955:ASN:OD1	2.30	0.49
1:B:596:SER:HB2	1:B:611:LEU:HG	1.94	0.49
1:B:781:VAL:HG13	1:B:782:PHE:HD2	1.77	0.49
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.78	0.49
1:B:718:PHE:HE1	1:B:1108:ASN:HD21	1.58	0.49
1:A:559:PHE:HB2	1:A:584:ILE:HD13	1.94	0.48
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	1.95	0.48
1:A:1039:ARG:HH12	1:B:1039:ARG:HH11	1.60	0.48
1:A:599:THR:HB	1:A:608:VAL:HG23	1.94	0.48
1:B:756:TYR:HE2	1:B:997:ILE:HD12	1.76	0.48
1:C:440:ASN:OD1	1:C:440:ASN:N	2.40	0.48
1:A:22:THR:O	1:A:78:ARG:NH1	2.46	0.48
1:C:806:LEU:HD12	1:C:807:PRO:HD2	1.94	0.48
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.78	0.48
1:A:503:VAL:HG21	1:C:503:VAL:HB	1.95	0.48
1:A:546:LEU:HD21	1:A:573:THR:HG21	1.95	0.48
1:B:429:PHE:HE2	1:B:514:SER:HA	1.77	0.48
1:B:727:LEU:HD11	1:B:1025:ALA:HB2	1.95	0.48
1:A:971:GLY:HA3	1:A:995:ARG:HH12	1.78	0.48
1:B:98:SER:HB2	1:B:179:LEU:HA	1.95	0.48
1:C:319:ARG:HH11	1:C:592:PHE:HB3	1.77	0.48
1:B:457:ARG:NE	1:B:459:SER:O	2.45	0.48
1:B:317:ASN:ND2	1:C:737:ASP:OD1	2.46	0.48
1:B:984:LEU:HD13	1:B:988:GLU:HG2	1.94	0.48
1:A:765:ARG:NH1	1:C:957:GLN:OE1	2.45	0.48
1:B:775:ASP:HB3	1:B:864:LEU:HD13	1.93	0.48
1:C:1050:MET:HE2	1:C:1050:MET:HB3	1.61	0.48
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.94	0.48
1:A:395:VAL:HG12	1:A:515:PHE:HB3	1.95	0.48
1:A:774:GLN:OE1	1:A:777:ASN:ND2	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:809:PRO:HA	1:A:814:LYS:HD2	1.94	0.48
1:A:31:SER:OG	1:A:60:SER:O	2.25	0.48
1:B:15:CYS:SG	1:B:137:ASN:N	2.81	0.48
1:A:115:GLN:HG3	1:A:233:ILE:HG12	1.95	0.48
1:B:858:LEU:HD13	1:B:959:LEU:HD12	1.94	0.48
1:C:133:PHE:HE1	1:C:160:TYR:HB3	1.77	0.48
1:B:216:LEU:HD13	1:B:266:TYR:HE1	1.77	0.48
1:C:82:PRO:O	1:C:239:GLN:NE2	2.44	0.48
1:A:43:PHE:HE1	1:C:563:GLN:HE21	1.60	0.48
1:A:901:GLN:HE21	1:A:905:ARG:HE	1.59	0.48
1:C:1111:GLU:OE1	1:C:1113:GLN:NE2	2.33	0.48
1:B:406:GLU:HB3	1:B:418:ILE:HG21	1.94	0.48
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.31	0.48
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.24	0.48
1:C:1115:ILE:HG22	1:C:1137:VAL:HG23	1.95	0.48
1:A:390:LEU:HD12	1:A:391:CYS:H	1.77	0.48
1:B:390:LEU:HD12	1:B:391:CYS:H	1.79	0.48
1:C:1054:GLN:HB2	1:C:1061:VAL:HG13	1.95	0.48
1:C:985:ASP:OD1	1:C:985:ASP:N	2.34	0.48
1:A:776:LYS:HG3	1:A:1019:ARG:HH22	1.78	0.48
1:A:393:THR:HA	1:A:522:ALA:HA	1.95	0.48
1:A:454:ARG:NH2	1:A:469:SER:O	2.43	0.48
1:B:401:VAL:HG12	1:B:509:ARG:HG2	1.95	0.48
1:A:966:LEU:HA	1:A:1000:ARG:HH12	1.78	0.48
1:B:461:LEU:HD12	1:B:465:GLU:HB3	1.95	0.48
1:A:1005:GLN:HE21	1:C:1006:THR:HG22	1.78	0.48
1:B:293:LEU:HD22	1:B:294:ASP:OD2	2.13	0.48
1:C:28:TYR:HB3	1:C:61:ASN:HB2	1.94	0.48
1:A:295:PRO:HA	1:A:298:GLU:HB2	1.96	0.48
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.94	0.48
1:B:334:ASN:ND2	1:B:360:ASN:O	2.39	0.48
1:B:1013:ILE:HD13	1:C:1012:LEU:HG	1.94	0.48
1:C:393:THR:OG1	1:C:394:ASN:N	2.46	0.48
1:A:777:ASN:HA	1:A:780:GLU:HG3	1.96	0.48
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.94	0.48
1:A:48:LEU:HD11	1:A:276:LEU:HB3	1.95	0.48
1:A:342:PHE:O	1:A:509:ARG:NH2	2.46	0.48
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.95	0.48
1:A:547:THR:HG22	1:B:982:SER:HB3	1.93	0.48
1:C:64:TRP:HZ2	1:C:214:ARG:HH22	1.62	0.48
1:A:134:GLN:HE22	1:A:162:SER:H	1.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:561:PRO:O	1:A:577:ARG:NH1	2.43	0.48
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.95	0.48
1:B:751:ASN:HA	1:B:754:LEU:HG	1.94	0.48
1:C:408:ARG:HD2	1:C:414:GLN:HE21	1.78	0.48
1:C:871:ALA:HA	1:C:874:THR:HG22	1.94	0.48
1:A:317:ASN:HD21	1:A:592:PHE:HB2	1.79	0.48
1:B:431:GLY:HA2	1:B:515:PHE:CZ	2.48	0.48
1:B:985:ASP:OD1	1:B:985:ASP:N	2.41	0.48
1:A:822:LEU:HD12	1:A:945:LEU:HD11	1.95	0.48
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.78	0.48
1:A:805:ILE:HD12	1:A:1054:GLN:HE21	1.78	0.48
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.25	0.48
1:C:738:CYS:HB2	1:C:760:CYS:HB2	1.37	0.48
1:C:915:VAL:HG21	1:C:1108:ASN:HD22	1.77	0.48
1:C:985:ASP:OD1	1:C:985:ASP:N	2.39	0.48
1:A:763:LEU:HB2	1:A:1008:VAL:HG11	1.95	0.48
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.78	0.48
1:B:276:LEU:HG	1:B:306:PHE:HE1	1.78	0.48
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.95	0.48
1:B:701:VAL:HG13	1:C:787:GLN:HG3	1.95	0.48
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.95	0.48
1:B:517:LEU:HD11	1:C:983:ARG:HH11	1.78	0.48
1:A:873:TYR:HE1	1:C:699:LEU:HG	1.78	0.48
1:B:34:ARG:NH2	1:B:221:SER:H	2.11	0.48
1:B:552:LEU:HD12	1:B:585:LEU:HB2	1.94	0.48
1:C:732:THR:HB	1:C:955:ASN:HD22	1.78	0.48
1:A:390:LEU:HD12	1:A:391:CYS:H	1.78	0.48
1:B:592:PHE:HZ	1:C:740:MET:HE2	1.79	0.48
1:B:1079:PRO:HA	1:C:900:MET:HE1	1.94	0.48
1:C:819:GLU:HA	1:C:822:LEU:HG	1.94	0.48
1:A:315:THR:HG23	1:A:595:VAL:HG23	1.95	0.48
1:B:1106:GLN:NE2	1:B:1111:GLU:OE1	2.45	0.48
1:A:719:THR:HG23	1:A:1070:ALA:HB2	1.94	0.48
1:C:395:VAL:HG12	1:C:515:PHE:HB3	1.96	0.48
1:C:984:LEU:HD23	1:C:988:GLU:HG2	1.95	0.48
1:A:39:PRO:HG3	1:A:51:THR:HG21	1.96	0.48
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.95	0.48
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.95	0.48
1:A:722:VAL:HG12	1:A:1065:VAL:HG22	1.96	0.48
1:A:767:LEU:HA	1:A:770:ILE:HG22	1.95	0.48
1:A:53:ASP:OD1	1:A:54:LEU:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:LEU:HD11	1:A:304:LYS:HE2	1.94	0.48
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.96	0.48
1:A:403:ARG:NH2	1:B:372:ALA:O	2.39	0.48
1:B:426:PRO:HD2	1:B:429:PHE:HD2	1.79	0.48
1:B:491:PRO:HG2	1:B:492:LEU:HD22	1.94	0.48
1:C:414:GLN:NE2	1:C:414:GLN:HA	2.28	0.48
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.94	0.48
1:A:108:THR:O	1:A:237:ARG:NH2	2.46	0.48
1:B:785:VAL:HG12	1:B:787:GLN:H	1.78	0.48
1:B:997:ILE:O	1:B:1001:LEU:HB2	2.14	0.48
1:C:440:ASN:OD1	1:C:440:ASN:N	2.41	0.48
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.95	0.48
1:A:964:LYS:NZ	1:C:569:ILE:O	2.42	0.48
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.30	0.48
1:A:1040:VAL:HG11	1:B:1035:GLY:HA3	1.96	0.48
1:B:90:VAL:HG13	1:B:267:VAL:HG13	1.95	0.48
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.95	0.48
1:C:642:VAL:HG22	1:C:651:ILE:HG22	1.95	0.48
1:B:970:PHE:HD2	1:B:996:LEU:HA	1.79	0.48
1:B:64:TRP:HE1	1:B:264:ALA:HB1	1.78	0.48
1:B:726:ILE:HD13	1:B:1061:VAL:HG22	1.95	0.48
1:C:119:ILE:HG12	1:C:128:ILE:HG12	1.96	0.48
1:C:730:SER:HB2	1:C:774:GLN:NE2	2.22	0.48
1:A:989:ALA:O	1:A:993:ILE:HD12	2.13	0.48
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.94	0.48
1:A:107:GLY:H	1:A:235:ILE:HD11	1.77	0.48
1:C:785:VAL:HG12	1:C:787:GLN:H	1.78	0.48
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.96	0.48
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.94	0.48
1:A:403:ARG:NH2	1:B:372:ALA:O	2.38	0.48
1:B:326:ILE:HD13	1:B:533:LEU:HD12	1.96	0.48
1:B:687:GLN:NE2	1:B:688:THR:O	2.47	0.48
1:A:22:THR:O	1:A:78:ARG:NH1	2.46	0.48
1:C:599:THR:HB	1:C:608:VAL:HG23	1.95	0.48
1:A:80:ALA:O	1:A:245:HIS:NE2	2.45	0.48
1:B:642:VAL:HG22	1:B:651:ILE:HG22	1.95	0.48
1:B:83:VAL:HG13	1:B:237:ARG:NH1	2.28	0.48
1:B:237:ARG:NH1	1:B:239:GLN:OE1	2.44	0.48
1:B:977:LEU:HD21	1:B:996:LEU:HG	1.95	0.48
1:C:409:GLN:HE21	1:C:418:ILE:HG12	1.79	0.48
1:A:302:THR:HG21	1:A:315:THR:HG23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.27	0.48
1:C:360:ASN:H	1:C:523:THR:HB	1.79	0.48
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.95	0.48
1:A:115:GLN:HE22	1:C:468:ILE:HG21	1.77	0.48
1:A:442:ASP:OD1	1:A:448:ASN:ND2	2.47	0.48
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.96	0.48
1:B:389:ASP:OD1	1:B:389:ASP:N	2.40	0.48
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.94	0.48
1:C:898:PHE:HE2	1:C:1050:MET:HE1	1.78	0.48
1:A:106:PHE:HB3	1:A:235:ILE:HD12	1.94	0.48
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	1.96	0.48
1:B:728:PRO:HD3	1:B:947:LYS:HG3	1.95	0.48
1:B:884:SER:OG	1:B:887:THR:OG1	2.25	0.48
1:A:58:PHE:HD2	1:A:290:ASP:HB2	1.78	0.48
1:A:206:LYS:NZ	1:A:221:SER:OG	2.46	0.48
1:A:332:ILE:HG13	1:A:362:VAL:HG22	1.95	0.48
1:A:858:LEU:HD13	1:A:959:LEU:HD12	1.96	0.48
1:A:1106:GLN:NE2	1:A:1111:GLU:OE2	2.47	0.48
1:B:976:VAL:HG13	1:B:979:ASP:HB3	1.95	0.48
1:B:44:ARG:NH2	1:B:49:HIS:HB2	2.29	0.48
1:B:57:PRO:HB2	1:B:60:SER:HB3	1.96	0.48
1:B:90:VAL:HG13	1:B:267:VAL:HG13	1.96	0.48
1:B:183:GLN:HG3	1:B:187:LYS:HG3	1.95	0.48
1:A:456:PHE:HB3	1:A:473:TYR:CD1	2.48	0.48
1:C:884:SER:OG	1:C:887:THR:OG1	2.27	0.48
1:A:315:THR:HG23	1:A:595:VAL:HG23	1.95	0.48
1:C:394:ASN:OD1	1:C:394:ASN:N	2.46	0.48
1:A:364:ASP:OD2	1:A:364:ASP:N	2.44	0.48
1:B:951:VAL:HA	1:B:954:GLN:HG3	1.94	0.48
1:B:731:MET:H	1:B:774:GLN:NE2	2.12	0.48
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.96	0.48
1:A:108:THR:OG1	1:A:234:ASN:O	2.30	0.48
1:C:708:SER:HB3	1:C:711:SER:HB3	1.96	0.48
1:A:196:ASN:HD22	1:A:235:ILE:HG22	1.79	0.48
1:A:767:LEU:HA	1:A:770:ILE:HG22	1.95	0.48
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.96	0.48
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.96	0.48
1:C:784:GLN:HA	1:C:784:GLN:HE21	1.79	0.48
1:C:976:VAL:HG13	1:C:979:ASP:HB3	1.95	0.48
1:A:317:ASN:HD21	1:A:592:PHE:HB2	1.79	0.48
1:A:357:ARG:NH2	1:A:396:TYR:OH	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:535:LYS:HD2	1:A:585:LEU:HD11	1.95	0.48
1:A:745:ASP:OD1	1:C:319:ARG:NH1	2.46	0.48
1:B:727:LEU:HD11	1:B:1025:ALA:HB2	1.96	0.48
1:B:785:VAL:HG12	1:B:787:GLN:H	1.78	0.48
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.77	0.48
1:B:577:ARG:HH21	1:B:582:LEU:HD22	1.78	0.48
1:C:738:CYS:O	1:C:742:ILE:HB	2.13	0.48
1:B:611:LEU:HD13	1:B:650:LEU:HD22	1.96	0.48
1:C:908:GLY:O	1:C:1038:LYS:NZ	2.30	0.48
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.33	0.48
1:A:950:ASP:N	1:A:950:ASP:OD1	2.45	0.48
1:B:390:LEU:HD21	1:C:983:ARG:HG2	1.96	0.48
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.96	0.48
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.96	0.48
1:A:296:LEU:O	1:A:299:THR:OG1	2.28	0.48
1:A:599:THR:HB	1:A:608:VAL:HG23	1.94	0.48
1:B:822:LEU:HD21	1:B:1061:VAL:HG21	1.96	0.48
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.31	0.48
1:B:990:GLU:HA	1:B:993:ILE:HD12	1.95	0.48
1:A:229:LEU:HD12	1:A:230:PRO:HD2	1.95	0.48
1:A:864:LEU:HD12	1:A:865:LEU:HD13	1.94	0.48
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.94	0.48
1:B:726:ILE:HD13	1:B:1061:VAL:HG22	1.96	0.48
1:B:390:LEU:HD12	1:B:391:CYS:H	1.79	0.48
1:C:130:VAL:HG21	1:C:231:ILE:HD11	1.96	0.48
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.38	0.48
1:A:106:PHE:HD1	1:A:235:ILE:HD13	1.79	0.48
1:A:599:THR:HB	1:A:608:VAL:HG23	1.94	0.48
1:B:733:LYS:HB3	1:B:861:LEU:HD23	1.96	0.48
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.67	0.48
1:C:360:ASN:H	1:C:523:THR:HB	1.78	0.48
1:A:200:TYR:OH	1:C:464:PHE:O	2.25	0.48
1:C:871:ALA:HA	1:C:874:THR:HG22	1.96	0.48
1:A:49:HIS:NE2	1:A:51:THR:HB	2.29	0.48
1:A:92:PHE:HE2	1:A:265:TYR:HB2	1.79	0.48
1:B:1091:ARG:NH1	1:B:1120:THR:O	2.45	0.48
1:B:699:LEU:HG	1:C:873:TYR:HE1	1.79	0.48
1:B:902:MET:HE1	1:B:1050:MET:HE2	1.94	0.48
1:C:366:SER:O	1:C:370:ASN:HB2	2.13	0.48
1:B:15:CYS:SG	1:B:137:ASN:N	2.86	0.48
1:B:731:MET:H	1:B:774:GLN:NE2	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.95	0.48
1:C:762:GLN:HA	1:C:765:ARG:HE	1.78	0.48
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.96	0.48
1:B:1045:LYS:NZ	1:C:889:GLY:O	2.47	0.48
1:A:61:ASN:O	1:A:61:ASN:ND2	2.34	0.48
1:A:931:ILE:HA	1:A:934:ILE:HG22	1.95	0.48
1:B:949:GLN:O	1:B:953:ASN:ND2	2.47	0.48
1:A:38:TYR:HE1	1:A:285:ILE:HG12	1.79	0.48
1:A:105:ILE:HB	1:A:241:LEU:HD21	1.96	0.48
1:C:83:VAL:HG13	1:C:239:GLN:HE21	1.78	0.48
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.46	0.48
1:A:395:VAL:HG22	1:A:515:PHE:HB3	1.95	0.48
1:A:1033:VAL:HG11	1:A:1053:PRO:HG3	1.96	0.48
1:B:334:ASN:ND2	1:B:360:ASN:O	2.41	0.48
1:A:84:LEU:HD11	1:A:267:VAL:HG11	1.96	0.48
1:A:415:THR:OG1	1:B:369:TYR:OH	2.24	0.48
1:A:765:ARG:NH1	1:C:957:GLN:OE1	2.46	0.48
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.31	0.48
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.96	0.48
1:B:681:GLY:N	1:C:864:LEU:O	2.47	0.48
1:C:34:ARG:NH2	1:C:221:SER:H	2.11	0.48
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.24	0.48
1:C:457:ARG:NE	1:C:467:ASP:OD1	2.46	0.48
1:A:1105:THR:HG21	1:A:1110:TYR:HD2	1.77	0.48
1:B:279:TYR:HE1	1:B:285:ILE:HG12	1.79	0.48
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	1.96	0.48
1:B:738:CYS:O	1:B:742:ILE:HB	2.14	0.48
1:A:858:LEU:HD13	1:A:959:LEU:HD12	1.96	0.48
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.31	0.48
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.96	0.48
1:A:567:ARG:HG2	1:A:571:ASP:HA	1.96	0.48
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.96	0.48
1:C:973:ILE:HG21	1:C:983:ARG:HH12	1.79	0.48
1:A:976:VAL:HG13	1:A:979:ASP:HB3	1.95	0.48
1:C:407:VAL:HA	1:C:410:ILE:HG12	1.96	0.48
1:C:884:SER:OG	1:C:894:LEU:O	2.32	0.48
1:C:980:ILE:HG23	1:C:984:LEU:HD23	1.95	0.48
1:A:1072:GLU:OE1	1:A:1072:GLU:N	2.47	0.48
1:C:650:LEU:HD13	1:C:653:ALA:HB3	1.96	0.48
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.95	0.48
1:B:577:ARG:HB2	1:B:584:ILE:HG12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:435:ALA:HB2	1:C:510:VAL:HG12	1.96	0.48
1:A:717:ASN:OD1	1:A:718:PHE:N	2.46	0.48
1:B:96:GLU:OE1	1:B:100:ILE:N	2.46	0.48
1:A:574:ASP:OD1	1:A:574:ASP:N	2.46	0.48
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.47	0.48
1:C:394:ASN:N	1:C:394:ASN:OD1	2.46	0.48
1:A:867:ASP:OD1	1:A:867:ASP:N	2.47	0.48
1:A:931:ILE:HA	1:A:934:ILE:HG22	1.96	0.48
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.23	0.48
1:C:189:LEU:HD22	1:C:217:PRO:HG2	1.96	0.48
1:C:965:GLN:HE21	1:C:965:GLN:CA	2.27	0.48
1:A:574:ASP:OD1	1:A:574:ASP:N	2.46	0.48
1:C:642:VAL:HG22	1:C:651:ILE:HG22	1.95	0.48
1:B:619:GLU:N	1:B:619:GLU:OE1	2.46	0.48
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	1.96	0.48
1:B:390:LEU:HD12	1:B:391:CYS:H	1.79	0.48
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.96	0.48
1:B:206:LYS:NZ	1:B:221:SER:OG	2.46	0.48
1:B:222:ALA:HB2	1:B:285:ILE:HB	1.96	0.48
1:B:358:ILE:HB	1:B:395:VAL:HG23	1.96	0.48
1:C:206:LYS:HB2	1:C:223:LEU:HA	1.96	0.47
1:A:151:SER:HB2	1:A:153:MET:HE3	1.96	0.47
1:C:390:LEU:HD12	1:C:391:CYS:H	1.79	0.47
1:C:532:ASN:N	1:C:532:ASN:OD1	2.46	0.47
1:C:906:PHE:HD1	1:C:916:LEU:HB2	1.78	0.47
1:A:346:ARG:HA	1:A:509:ARG:HH22	1.79	0.47
1:C:34:ARG:NH2	1:C:221:SER:H	2.10	0.47
1:C:87:ASN:OD1	1:C:87:ASN:N	2.45	0.47
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.26	0.47
1:C:229:LEU:HD22	1:C:231:ILE:HB	1.96	0.47
1:A:393:THR:HA	1:A:522:ALA:HA	1.95	0.47
1:A:869:MET:HE2	1:A:869:MET:HB3	1.69	0.47
1:B:193:VAL:HG23	1:B:270:LEU:HD21	1.96	0.47
1:B:822:LEU:HD23	1:B:1056:ALA:HB2	1.95	0.47
1:C:809:PRO:O	1:C:814:LYS:NZ	2.41	0.47
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.49	0.47
1:B:610:VAL:N	1:B:651:ILE:O	2.46	0.47
1:C:568:ASP:HB3	1:C:574:ASP:HB2	1.96	0.47
1:C:552:LEU:HD13	1:C:585:LEU:HD22	1.95	0.47
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.78	0.47
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.96	0.47
1:A:15:CYS:SG	1:A:137:ASN:N	2.82	0.47
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.96	0.47
1:B:719:THR:HG23	1:B:1070:ALA:HB2	1.96	0.47
1:C:177:MET:HE3	1:C:178:ASP:H	1.78	0.47
1:A:14:GLN:O	1:A:158:ARG:NE	2.47	0.47
1:A:738:CYS:HB2	1:A:760:CYS:HB2	1.55	0.47
1:A:765:ARG:HH12	1:C:957:GLN:CD	2.22	0.47
1:A:915:VAL:HG21	1:A:1109:PHE:HE2	1.79	0.47
1:C:36:VAL:O	1:C:223:LEU:HG	2.14	0.47
1:C:901:GLN:HE21	1:C:1050:MET:HE1	1.79	0.47
1:B:960:ASN:O	1:B:964:LYS:HB2	2.14	0.47
1:A:101:ILE:HD13	1:A:240:THR:HG23	1.95	0.47
1:A:390:LEU:HD12	1:A:391:CYS:H	1.79	0.47
1:C:732:THR:HB	1:C:955:ASN:ND2	2.29	0.47
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.29	0.47
1:C:1156:PHE:HA	1:C:1159:HIS:CD2	2.48	0.47
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.96	0.47
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.96	0.47
1:C:877:LEU:O	1:C:881:THR:OG1	2.28	0.47
1:B:314:GLN:HE21	1:B:314:GLN:CA	2.27	0.47
1:C:110:LEU:HD11	1:C:237:ARG:HB2	1.96	0.47
1:A:1106:GLN:OE1	1:A:1106:GLN:N	2.47	0.47
1:B:871:ALA:HA	1:B:874:THR:HG22	1.95	0.47
1:C:965:GLN:HE21	1:C:965:GLN:CA	2.21	0.47
1:A:562:PHE:O	1:B:41:LYS:NZ	2.47	0.47
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.96	0.47
1:A:84:LEU:HD13	1:A:238:PHE:HE2	1.79	0.47
1:B:297:SER:HA	1:B:300:LYS:HG2	1.96	0.47
1:A:916:LEU:HD22	1:A:917:TYR:HD1	1.78	0.47
1:B:719:THR:HG23	1:B:1070:ALA:HB2	1.96	0.47
1:C:393:THR:OG1	1:C:394:ASN:N	2.47	0.47
1:A:129:LYS:NZ	1:A:131:CYS:SG	2.71	0.47
1:A:955:ASN:C	1:A:955:ASN:ND2	2.65	0.47
1:C:334:ASN:OD1	1:C:335:LEU:N	2.43	0.47
1:A:390:LEU:HD12	1:A:391:CYS:H	1.78	0.47
1:A:911:VAL:HG11	1:A:1067:TYR:HE1	1.78	0.47
1:C:34:ARG:NH1	1:C:219:GLY:O	2.46	0.47
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.96	0.47
1:A:957:GLN:HG3	1:B:765:ARG:HH21	1.79	0.47
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:GLY:HA2	1:C:407:VAL:HG13	1.96	0.47
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.26	0.47
1:C:33:THR:OG1	1:C:219:GLY:O	2.33	0.47
1:C:58:PHE:HD1	1:C:290:ASP:HB2	1.77	0.47
1:C:380:TYR:HE1	1:C:433:VAL:HG12	1.79	0.47
1:A:599:THR:HB	1:A:608:VAL:HG23	1.95	0.47
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.23	0.47
1:C:81:ASN:O	1:C:239:GLN:NE2	2.41	0.47
1:A:423:TYR:HE1	1:A:512:VAL:HG11	1.79	0.47
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.27	0.47
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.25	0.47
1:B:393:THR:OG1	1:B:394:ASN:OD1	2.32	0.47
1:B:431:GLY:HA2	1:B:515:PHE:CZ	2.50	0.47
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.95	0.47
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.28	0.47
1:B:699:LEU:HG	1:C:873:TYR:HE1	1.79	0.47
1:C:189:LEU:HD12	1:C:217:PRO:HG2	1.96	0.47
1:A:334:ASN:ND2	1:A:360:ASN:O	2.42	0.47
1:A:501:TYR:HB3	1:A:505:TYR:HB3	1.95	0.47
1:A:787:GLN:HG2	1:C:701:VAL:HG13	1.95	0.47
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.29	0.47
1:A:1084:ASP:OD1	1:A:1084:ASP:N	2.39	0.47
1:C:423:TYR:HD1	1:C:466:ARG:HB3	1.79	0.47
1:C:856:ASN:ND2	1:C:858:LEU:HD23	2.29	0.47
1:B:129:LYS:HG2	1:B:133:PHE:HZ	1.78	0.47
1:A:353:TRP:HE1	1:A:466:ARG:HB2	1.80	0.47
1:B:185:ASN:HB2	1:B:213:VAL:HA	1.96	0.47
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.96	0.47
1:C:203:ILE:HD11	1:C:227:VAL:HB	1.96	0.47
1:A:1100:THR:OG1	1:A:1101:HIS:ND1	2.38	0.47
1:C:1052:PHE:HB2	1:C:1063:LEU:HD12	1.96	0.47
1:B:976:VAL:HG13	1:B:979:ASP:HB3	1.96	0.47
1:C:108:THR:O	1:C:237:ARG:NH1	2.47	0.47
1:A:930:ALA:HA	1:A:933:LYS:HG2	1.96	0.47
1:B:713:ALA:HB2	1:C:895:GLN:OE1	2.14	0.47
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.31	0.47
1:C:976:VAL:HG13	1:C:979:ASP:HB3	1.95	0.47
1:B:727:LEU:HD21	1:B:1024:LEU:HD22	1.96	0.47
1:C:37:TYR:OH	1:C:53:ASP:OD2	2.22	0.47
1:A:53:ASP:OD2	1:A:195:LYS:NZ	2.48	0.47
1:B:739:THR:HA	1:B:753:LEU:HD21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.95	0.47
1:C:276:LEU:HD11	1:C:301:CYS:HA	1.96	0.47
1:C:984:LEU:HD23	1:C:988:GLU:HG2	1.96	0.47
1:C:1084:ASP:OD2	1:C:1086:LYS:NZ	2.48	0.47
1:B:295:PRO:HG2	1:B:608:VAL:HG21	1.96	0.47
1:C:222:ALA:HB2	1:C:285:ILE:HB	1.96	0.47
1:C:382:VAL:HG11	1:C:387:LEU:HD13	1.96	0.47
1:C:877:LEU:HG	1:C:1053:PRO:HG2	1.96	0.47
1:B:37:TYR:OH	1:B:54:LEU:O	2.31	0.47
1:B:715:PRO:HD3	1:C:894:LEU:HD11	1.96	0.47
1:C:22:THR:O	1:C:78:ARG:NH1	2.47	0.47
1:C:58:PHE:HD1	1:C:290:ASP:HB2	1.79	0.47
1:A:897:PRO:HG2	1:A:900:MET:HG2	1.94	0.47
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.96	0.47
1:A:474:GLN:HG2	1:A:480:CYS:H	1.79	0.47
1:B:1046:GLY:HA2	1:C:890:ALA:HA	1.96	0.47
1:A:730:SER:OG	1:A:731:MET:N	2.46	0.47
1:B:133:PHE:HD1	1:B:160:TYR:HB3	1.79	0.47
1:B:950:ASP:OD1	1:B:950:ASP:N	2.46	0.47
1:A:117:LEU:HG	1:A:128:ILE:HD11	1.96	0.47
1:B:390:LEU:HD12	1:B:391:CYS:H	1.79	0.47
1:C:101:ILE:HD11	1:C:240:THR:HB	1.96	0.47
1:B:443:SER:HB3	1:B:499:PRO:HG3	1.96	0.47
1:A:53:ASP:OD1	1:A:54:LEU:N	2.45	0.47
1:A:611:LEU:HD22	1:A:678:ILE:HD11	1.95	0.47
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.95	0.47
1:B:408:ARG:HH21	1:B:409:GLN:HE21	1.62	0.47
1:C:310:LYS:HG2	1:C:676:ILE:HG21	1.96	0.47
1:C:774:GLN:HE22	1:C:1018:ILE:HG21	1.80	0.47
1:C:822:LEU:HD13	1:C:1056:ALA:HB2	1.97	0.47
1:A:950:ASP:N	1:A:950:ASP:OD1	2.46	0.47
1:C:177:MET:HE3	1:C:178:ASP:H	1.80	0.47
1:A:108:THR:O	1:A:237:ARG:NH2	2.47	0.47
1:A:390:LEU:HD12	1:A:391:CYS:H	1.78	0.47
1:C:687:GLN:HG2	1:C:693:ILE:HD13	1.97	0.47
1:A:910:GLY:O	1:A:1106:GLN:OE1	2.31	0.47
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.26	0.47
1:A:574:ASP:OD1	1:A:574:ASP:N	2.46	0.47
1:B:315:THR:HG23	1:B:595:VAL:HG23	1.95	0.47
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.40	0.47
1:C:884:SER:OG	1:C:894:LEU:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.96	0.47
1:A:785:VAL:HG12	1:A:787:GLN:H	1.78	0.47
1:B:1054:GLN:HB2	1:B:1061:VAL:HG23	1.96	0.47
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.96	0.47
1:A:560:LEU:HD12	1:A:562:PHE:H	1.79	0.47
1:B:457:ARG:HH12	1:B:461:LEU:HD23	1.79	0.47
1:C:978:ASN:HA	1:C:981:LEU:HG	1.97	0.47
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.96	0.47
1:C:1009:THR:O	1:C:1013:ILE:HG12	2.15	0.47
1:A:39:PRO:HG3	1:A:51:THR:HG21	1.96	0.47
1:B:573:THR:HG22	1:B:587:ILE:HD13	1.95	0.47
1:A:330:PRO:HD3	1:A:579:PRO:HB2	1.96	0.47
1:B:517:LEU:HD11	1:C:983:ARG:HD2	1.96	0.47
1:A:858:LEU:HD13	1:A:959:LEU:HD12	1.96	0.47
1:A:553:THR:OG1	1:A:586:ASP:OD1	2.28	0.47
1:B:389:ASP:OD1	1:B:528:LYS:NZ	2.41	0.47
1:C:809:PRO:HA	1:C:814:LYS:HD2	1.96	0.47
1:B:317:ASN:HD21	1:B:592:PHE:HD1	1.61	0.47
1:A:767:LEU:HA	1:A:770:ILE:HG12	1.97	0.47
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.79	0.47
1:A:751:ASN:HA	1:A:754:LEU:HG	1.97	0.47
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.97	0.47
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.80	0.47
1:A:971:GLY:HA3	1:A:995:ARG:HH22	1.80	0.47
1:C:1054:GLN:HB2	1:C:1061:VAL:HG12	1.96	0.47
1:A:866:THR:H	1:A:869:MET:HE2	1.78	0.47
1:B:369:TYR:CZ	1:B:384:PRO:HB2	2.50	0.47
1:C:129:LYS:NZ	1:C:168:PHE:O	2.36	0.47
1:A:798:GLY:O	1:A:920:GLN:NE2	2.47	0.47
1:B:912:THR:OG1	1:B:1106:GLN:NE2	2.35	0.47
1:C:431:GLY:HA2	1:C:515:PHE:CE1	2.49	0.47
1:C:730:SER:OG	1:C:731:MET:N	2.48	0.47
1:C:976:VAL:HG23	1:C:979:ASP:HB3	1.97	0.47
1:C:1050:MET:HE2	1:C:1050:MET:HB3	1.60	0.47
1:B:1033:VAL:HG21	1:B:1053:PRO:HG3	1.95	0.47
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.95	0.47
1:C:310:LYS:HG2	1:C:676:ILE:HG21	1.95	0.47
1:C:389:ASP:OD1	1:C:528:LYS:NZ	2.33	0.47
1:A:577:ARG:HD3	1:A:584:ILE:HG12	1.97	0.47
1:C:424:LYS:HD3	1:C:463:PRO:HA	1.96	0.47
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:889:GLY:HA3	1:C:1034:LEU:HD22	1.96	0.47
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.97	0.47
1:B:1019:ARG:O	1:B:1019:ARG:NH1	2.46	0.47
1:A:115:GLN:NE2	1:C:466:ARG:O	2.48	0.47
1:A:931:ILE:HA	1:A:934:ILE:HG22	1.97	0.47
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	1.97	0.47
1:B:366:SER:O	1:B:370:ASN:HB2	2.14	0.47
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.79	0.47
1:C:183:GLN:HG3	1:C:187:LYS:HG3	1.97	0.47
1:A:409:GLN:N	1:A:409:GLN:OE1	2.48	0.47
1:A:678:ILE:HD11	1:A:684:ALA:HB2	1.97	0.47
1:A:711:SER:OG	1:B:895:GLN:OE1	2.32	0.47
1:B:365:TYR:CE2	1:B:387:LEU:HD12	2.50	0.47
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.96	0.47
1:A:577:ARG:HD2	1:A:582:LEU:HA	1.96	0.47
1:B:677:PRO:HB3	1:C:864:LEU:HD21	1.97	0.47
1:B:203:ILE:HD11	1:B:226:LEU:HD23	1.96	0.47
1:A:785:VAL:HG12	1:A:787:GLN:H	1.79	0.47
1:C:613:GLN:HA	1:C:648:GLY:HA3	1.95	0.47
1:C:1156:PHE:O	1:C:1160:THR:OG1	2.32	0.47
1:A:742:ILE:HD11	1:A:753:LEU:HD22	1.96	0.47
1:A:1013:ILE:HG13	1:B:1012:LEU:HG	1.95	0.47
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.25	0.47
1:A:34:ARG:NH2	1:A:221:SER:H	2.12	0.47
1:A:115:GLN:HB2	1:A:233:ILE:HG12	1.96	0.47
1:A:950:ASP:N	1:A:950:ASP:OD1	2.45	0.47
1:C:732:THR:OG1	1:C:955:ASN:ND2	2.47	0.47
1:B:385:THR:OG1	1:C:985:ASP:OD2	2.33	0.47
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.97	0.47
1:A:805:ILE:HG22	1:A:878:LEU:HD21	1.96	0.47
1:B:785:VAL:HG12	1:B:787:GLN:H	1.79	0.47
1:C:908:GLY:C	1:C:1038:LYS:HZ2	2.23	0.47
1:A:688:THR:HA	1:A:690:GLN:HG2	1.97	0.47
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.79	0.47
1:A:796:ASP:OD1	1:A:796:ASP:N	2.48	0.47
1:B:576:VAL:HG12	1:B:587:ILE:HD11	1.95	0.47
1:C:884:SER:OG	1:C:894:LEU:O	2.33	0.47
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.96	0.47
1:C:1010:GLN:HE22	1:C:1014:ARG:HH21	1.62	0.47
1:A:916:LEU:O	1:A:920:GLN:HB2	2.15	0.47
1:B:612:TYR:HB2	1:B:649:CYS:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:819:GLU:HA	1:A:822:LEU:HG	1.97	0.47
1:B:417:ASN:O	1:B:421:TYR:HB2	2.15	0.47
1:B:1010:GLN:OE1	1:B:1014:ARG:NH1	2.47	0.47
1:B:1103:PHE:CD1	1:B:1112:PRO:HB3	2.49	0.47
1:C:344:ALA:HB3	1:C:347:PHE:HE2	1.80	0.47
1:A:809:PRO:HA	1:A:814:LYS:HD2	1.97	0.47
1:A:894:LEU:HD21	1:C:715:PRO:HD3	1.95	0.47
1:B:334:ASN:ND2	1:B:360:ASN:O	2.39	0.47
1:A:867:ASP:OD1	1:A:867:ASP:N	2.46	0.47
1:B:83:VAL:HG22	1:B:239:GLN:HE22	1.79	0.47
1:B:517:LEU:HD11	1:C:983:ARG:HH21	1.80	0.47
1:C:738:CYS:O	1:C:742:ILE:HB	2.15	0.47
1:A:403:ARG:NH2	1:B:372:ALA:O	2.33	0.47
1:A:503:VAL:HA	1:A:506:GLN:HG3	1.96	0.47
1:A:895:GLN:NE2	1:C:711:SER:OG	2.46	0.47
1:B:877:LEU:O	1:B:881:THR:HG23	2.15	0.47
1:C:37:TYR:HB3	1:C:223:LEU:HD23	1.96	0.47
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.97	0.47
1:B:34:ARG:HG3	1:B:216:LEU:HD11	1.97	0.47
1:B:326:ILE:HD13	1:B:533:LEU:HD12	1.97	0.47
1:A:919:ASN:HD22	1:A:922:LEU:HD21	1.79	0.47
1:B:390:LEU:HD12	1:B:391:CYS:H	1.79	0.47
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.97	0.47
1:C:439:ASN:ND2	1:C:506:GLN:OE1	2.48	0.47
1:C:785:VAL:HG12	1:C:787:GLN:H	1.79	0.47
1:C:871:ALA:HA	1:C:874:THR:HG22	1.95	0.47
1:A:53:ASP:OD2	1:A:195:LYS:NZ	2.47	0.47
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.96	0.47
1:C:379:CYS:HA	1:C:432:CYS:HA	1.97	0.47
1:C:958:ALA:HB1	1:C:1007:TYR:HE2	1.80	0.47
1:A:334:ASN:ND2	1:A:360:ASN:O	2.41	0.47
1:A:751:ASN:HA	1:A:754:LEU:HG	1.97	0.47
1:B:950:ASP:OD1	1:B:950:ASP:N	2.46	0.47
1:B:310:LYS:HE2	1:B:664:ILE:HD11	1.97	0.47
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.48	0.47
1:A:189:LEU:HD22	1:A:208:THR:HB	1.96	0.47
1:A:722:VAL:HG12	1:A:1065:VAL:HG22	1.97	0.47
1:B:276:LEU:HD11	1:B:304:LYS:HE2	1.96	0.47
1:B:731:MET:H	1:B:774:GLN:NE2	2.13	0.47
1:B:877:LEU:O	1:B:881:THR:OG1	2.30	0.47
1:B:978:ASN:HA	1:B:981:LEU:HG	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:994:ASP:HA	1:B:997:ILE:HG12	1.97	0.47
1:B:28:TYR:HB3	1:B:61:ASN:HB3	1.96	0.47
1:B:195:LYS:HE3	1:B:202:LYS:HD3	1.97	0.47
1:B:533:LEU:HD21	1:B:585:LEU:HD11	1.95	0.47
1:A:102:ARG:HE	1:A:246:ILE:HD11	1.80	0.47
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.96	0.47
1:B:950:ASP:OD1	1:B:950:ASP:N	2.46	0.47
1:C:196:ASN:HD22	1:C:235:ILE:HG12	1.78	0.47
1:A:15:CYS:SG	1:A:137:ASN:N	2.87	0.47
1:A:931:ILE:HA	1:A:934:ILE:HG22	1.97	0.47
1:B:390:LEU:HD12	1:B:391:CYS:H	1.80	0.47
1:B:442:ASP:O	1:B:448:ASN:ND2	2.43	0.47
1:C:785:VAL:HG12	1:C:787:GLN:H	1.79	0.47
1:A:194:PHE:HE2	1:A:203:ILE:HG23	1.80	0.47
1:A:752:LEU:HD12	1:A:753:LEU:HD22	1.97	0.47
1:A:984:LEU:HB2	1:A:989:ALA:HB2	1.97	0.47
1:C:190:ARG:CZ	1:C:207:HIS:HE1	2.27	0.47
1:B:574:ASP:OD1	1:B:574:ASP:N	2.47	0.47
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.44	0.47
1:B:560:LEU:HB2	1:B:563:GLN:HE22	1.80	0.47
1:C:914:ASN:HD21	1:C:1111:GLU:CD	2.23	0.47
1:A:574:ASP:OD1	1:A:574:ASP:N	2.47	0.47
1:A:785:VAL:HG12	1:A:787:GLN:H	1.79	0.47
1:B:606:ASN:C	1:B:606:ASN:ND2	2.72	0.47
1:C:395:VAL:HG12	1:C:515:PHE:HB3	1.96	0.47
1:A:599:THR:HB	1:A:608:VAL:HG23	1.96	0.47
1:A:398:ASP:HB2	1:A:512:VAL:HG13	1.96	0.47
1:C:884:SER:OG	1:C:887:THR:OG1	2.26	0.47
1:B:688:THR:HA	1:B:690:GLN:HG2	1.97	0.47
1:B:711:SER:OG	1:C:895:GLN:NE2	2.41	0.47
1:B:295:PRO:HG2	1:B:608:VAL:HG21	1.97	0.47
1:A:777:ASN:HA	1:A:780:GLU:HG3	1.97	0.47
1:C:722:VAL:HG12	1:C:1065:VAL:HG22	1.97	0.47
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.79	0.47
1:C:334:ASN:OD1	1:C:335:LEU:N	2.43	0.47
1:C:393:THR:OG1	1:C:394:ASN:N	2.48	0.47
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.96	0.47
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.96	0.47
1:A:390:LEU:HD12	1:A:391:CYS:H	1.79	0.47
1:A:785:VAL:HG12	1:A:787:GLN:H	1.79	0.47
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.96	0.47
1:A:805:ILE:HD12	1:A:1054:GLN:HE21	1.80	0.47
1:A:999:GLY:O	1:A:1002:GLN:NE2	2.48	0.47
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.97	0.47
1:B:435:ALA:HB2	1:B:510:VAL:HG22	1.97	0.47
1:A:884:SER:OG	1:A:887:THR:OG1	2.27	0.47
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.78	0.47
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.26	0.47
1:C:34:ARG:HH22	1:C:220:PHE:HA	1.79	0.47
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.96	0.47
1:B:620:VAL:HG11	1:B:642:VAL:HG11	1.97	0.47
1:C:56:LEU:HD22	1:C:91:TYR:CD1	2.50	0.47
1:A:310:LYS:HG3	1:A:600:PRO:HA	1.97	0.47
1:A:316:SER:OG	1:A:317:ASN:N	2.48	0.47
1:A:454:ARG:NH2	1:A:469:SER:O	2.40	0.47
1:A:567:ARG:HD3	1:A:571:ASP:HA	1.96	0.47
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.97	0.47
1:C:738:CYS:HB2	1:C:763:LEU:HD11	1.96	0.47
1:A:291:CYS:HB3	1:A:301:CYS:HB2	1.31	0.47
1:B:319:ARG:HH22	1:C:745:ASP:H	1.62	0.47
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.96	0.47
1:A:390:LEU:HD12	1:A:391:CYS:H	1.79	0.47
1:A:431:GLY:HA2	1:A:515:PHE:CE2	2.50	0.47
1:A:978:ASN:HA	1:A:981:LEU:HG	1.97	0.47
1:B:1045:LYS:HA	1:B:1045:LYS:HD3	1.82	0.47
1:C:503:VAL:HA	1:C:506:GLN:HG3	1.97	0.47
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.96	0.47
1:A:315:THR:OG1	1:A:316:SER:N	2.48	0.47
1:A:701:VAL:HG13	1:B:787:GLN:HG2	1.95	0.47
1:A:978:ASN:HA	1:A:981:LEU:HG	1.97	0.47
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.45	0.47
1:A:785:VAL:HG12	1:A:787:GLN:H	1.79	0.47
1:A:985:ASP:OD2	1:A:987:PRO:HD2	2.15	0.47
1:A:1129:VAL:HG12	1:B:917:TYR:HB3	1.95	0.47
1:C:365:TYR:O	1:C:369:TYR:HB2	2.15	0.47
1:C:976:VAL:HG13	1:C:979:ASP:HB3	1.97	0.47
1:A:189:LEU:HD22	1:A:217:PRO:HG2	1.96	0.47
1:B:574:ASP:OD1	1:B:574:ASP:N	2.46	0.47
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.97	0.47
1:C:1050:MET:HE3	1:C:1050:MET:HB3	1.78	0.47
1:C:787:GLN:OE1	1:C:787:GLN:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.96	0.47
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.48	0.47
1:B:386:LYS:NZ	1:C:985:ASP:OD2	2.48	0.47
1:C:762:GLN:HA	1:C:765:ARG:HG2	1.96	0.47
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.97	0.47
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.79	0.47
1:A:599:THR:HB	1:A:608:VAL:HG23	1.95	0.47
1:B:287:ASP:OD1	1:B:288:ALA:N	2.48	0.47
1:B:912:THR:O	1:B:915:VAL:HG12	2.15	0.47
1:C:153:MET:HE1	1:C:155:SER:HB3	1.97	0.47
1:B:1139:ASP:HB3	1:B:1142:GLN:HG3	1.97	0.47
1:B:177:MET:HE1	1:B:190:ARG:HH22	1.79	0.47
1:B:858:LEU:HD13	1:B:959:LEU:HD12	1.96	0.47
1:C:877:LEU:HG	1:C:1053:PRO:HG2	1.97	0.47
1:A:369:TYR:OH	1:C:415:THR:OG1	2.26	0.47
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.43	0.47
1:A:676:ILE:HD12	1:A:677:PRO:HD2	1.96	0.47
1:B:58:PHE:HD2	1:B:290:ASP:HB2	1.79	0.47
1:C:1115:ILE:HG22	1:C:1137:VAL:HG23	1.96	0.47
1:B:421:TYR:HE2	1:B:457:ARG:H	1.63	0.47
1:B:761:THR:O	1:B:765:ARG:HG2	2.15	0.47
1:B:770:ILE:HD11	1:B:1012:LEU:HD22	1.97	0.47
1:C:401:VAL:HA	1:C:509:ARG:HA	1.97	0.47
1:C:664:ILE:HD12	1:C:665:PRO:HD2	1.96	0.47
1:C:773:GLU:OE2	1:C:1019:ARG:NE	2.48	0.47
1:C:34:ARG:NH2	1:C:221:SER:H	2.13	0.47
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.80	0.47
1:B:433:VAL:HA	1:B:512:VAL:HG23	1.96	0.47
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.97	0.47
1:B:751:ASN:HA	1:B:754:LEU:HG	1.97	0.47
1:A:360:ASN:H	1:A:523:THR:HB	1.80	0.47
1:A:34:ARG:NH2	1:A:221:SER:H	2.14	0.47
1:B:91:TYR:N	1:B:268:GLY:O	2.37	0.47
1:B:701:VAL:HG13	1:C:787:GLN:HG3	1.96	0.47
1:C:40:ASP:N	1:C:40:ASP:OD1	2.44	0.47
1:C:532:ASN:N	1:C:532:ASN:OD1	2.46	0.47
1:A:738:CYS:HB3	1:A:763:LEU:HD21	1.97	0.47
1:C:291:CYS:HB3	1:C:301:CYS:HB2	1.37	0.47
1:C:722:VAL:HG22	1:C:930:ALA:HB1	1.96	0.47
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.97	0.47
1:A:574:ASP:OD1	1:A:574:ASP:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:611:LEU:HD13	1:B:650:LEU:HD22	1.96	0.47
1:C:642:VAL:HG22	1:C:651:ILE:HG22	1.97	0.47
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.97	0.47
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.96	0.47
1:C:435:ALA:HB2	1:C:510:VAL:HG12	1.96	0.47
1:A:295:PRO:HA	1:A:298:GLU:HB3	1.97	0.47
1:A:1033:VAL:HG21	1:A:1053:PRO:HG3	1.97	0.47
1:A:719:THR:HG23	1:A:1070:ALA:HB2	1.97	0.47
1:A:919:ASN:HD22	1:A:922:LEU:HD21	1.80	0.47
1:B:189:LEU:HD12	1:B:217:PRO:HG2	1.97	0.47
1:C:300:LYS:NZ	1:C:306:PHE:O	2.47	0.47
1:A:791:THR:HG21	1:A:806:LEU:HD11	1.96	0.47
1:B:398:ASP:HB2	1:B:512:VAL:HG12	1.96	0.47
1:B:573:THR:HG22	1:B:587:ILE:HD13	1.97	0.47
1:B:775:ASP:HB3	1:B:864:LEU:HD13	1.96	0.47
1:C:390:LEU:HD12	1:C:391:CYS:H	1.80	0.47
1:A:732:THR:HG23	1:A:955:ASN:HD22	1.80	0.46
1:B:443:SER:HB3	1:B:499:PRO:HG3	1.97	0.46
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.98	0.46
1:C:96:GLU:OE1	1:C:96:GLU:N	2.48	0.46
1:A:105:ILE:HG23	1:A:239:GLN:HB3	1.96	0.46
1:A:1002:GLN:HE21	1:B:1005:GLN:NE2	2.12	0.46
1:B:143:VAL:HG11	1:B:152:TRP:CE3	2.51	0.46
1:B:576:VAL:HG12	1:B:587:ILE:HD11	1.96	0.46
1:A:330:PRO:HD3	1:A:544:ASN:HD21	1.80	0.46
1:A:788:ILE:HG23	1:A:876:ALA:HB2	1.95	0.46
1:C:390:LEU:HD12	1:C:391:CYS:H	1.80	0.46
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.79	0.46
1:A:1040:VAL:HG11	1:B:1035:GLY:HA3	1.97	0.46
1:A:1105:THR:HG21	1:A:1110:TYR:HD1	1.79	0.46
1:B:912:THR:O	1:B:915:VAL:HG12	2.15	0.46
1:C:976:VAL:HG13	1:C:979:ASP:HB3	1.97	0.46
1:C:877:LEU:O	1:C:881:THR:OG1	2.28	0.46
1:A:393:THR:HA	1:A:522:ALA:HA	1.97	0.46
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	1.97	0.46
1:C:390:LEU:HD12	1:C:391:CYS:H	1.79	0.46
1:B:135:PHE:HD2	1:B:160:TYR:HE1	1.63	0.46
1:B:866:THR:O	1:B:870:ILE:HG12	2.15	0.46
1:A:483:VAL:HG12	1:A:484:LYS:HG3	1.98	0.46
1:B:1013:ILE:HD13	1:C:1012:LEU:HB3	1.97	0.46
1:C:393:THR:OG1	1:C:394:ASN:OD1	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:ARG:HG3	1:A:216:LEU:HD11	1.97	0.46
1:A:712:ILE:HG21	1:A:1096:VAL:HG12	1.97	0.46
1:A:1040:VAL:HG11	1:B:1035:GLY:HA3	1.96	0.46
1:B:858:LEU:HD13	1:B:959:LEU:HD12	1.97	0.46
1:B:39:PRO:HG3	1:B:51:THR:HG21	1.96	0.46
1:B:80:ALA:O	1:B:245:HIS:NE2	2.48	0.46
1:A:785:VAL:HG12	1:A:787:GLN:H	1.79	0.46
1:A:919:ASN:HD22	1:A:922:LEU:HD21	1.80	0.46
1:C:326:ILE:HD13	1:C:533:LEU:HD12	1.96	0.46
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.80	0.46
1:A:183:GLN:HG3	1:A:187:LYS:HG3	1.96	0.46
1:A:315:THR:OG1	1:A:316:SER:N	2.48	0.46
1:B:884:SER:OG	1:B:887:THR:OG1	2.26	0.46
1:A:369:TYR:OH	1:C:415:THR:OG1	2.25	0.46
1:A:1030:SER:HA	1:A:1034:LEU:HD23	1.97	0.46
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.96	0.46
1:C:92:PHE:HB3	1:C:192:PHE:HB2	1.97	0.46
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.96	0.46
1:B:34:ARG:HH22	1:B:220:PHE:HA	1.80	0.46
1:B:679:GLY:HA2	1:C:864:LEU:HD13	1.97	0.46
1:A:503:VAL:HG21	1:C:503:VAL:HB	1.96	0.46
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.32	0.46
1:A:294:ASP:OD1	1:A:297:SER:N	2.45	0.46
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.97	0.46
1:A:1106:GLN:OE1	1:A:1111:GLU:OE2	2.33	0.46
1:B:34:ARG:NH2	1:B:221:SER:H	2.13	0.46
1:C:785:VAL:HG12	1:C:787:GLN:H	1.80	0.46
1:B:15:CYS:SG	1:B:137:ASN:N	2.84	0.46
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.97	0.46
1:C:951:VAL:HA	1:C:954:GLN:HG3	1.98	0.46
1:A:117:LEU:HD11	1:A:231:ILE:HG12	1.97	0.46
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.96	0.46
1:A:357:ARG:NH2	1:A:396:TYR:OH	2.49	0.46
1:A:598:ILE:HD11	1:A:678:ILE:HD13	1.97	0.46
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	1.95	0.46
1:C:431:GLY:HA2	1:C:515:PHE:CZ	2.51	0.46
1:A:299:THR:HG21	1:A:597:VAL:HG21	1.96	0.46
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.97	0.46
1:B:715:PRO:HD3	1:C:894:LEU:HD11	1.96	0.46
1:C:106:PHE:HD2	1:C:117:LEU:HD23	1.80	0.46
1:C:426:PRO:HB3	1:C:464:PHE:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:738:CYS:HB3	1:C:760:CYS:HB2	1.64	0.46
1:A:15:CYS:SG	1:A:137:ASN:N	2.86	0.46
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.33	0.46
1:C:989:ALA:O	1:C:993:ILE:HG12	2.16	0.46
1:B:334:ASN:ND2	1:B:360:ASN:O	2.40	0.46
1:A:425:LEU:HD12	1:A:429:PHE:CG	2.51	0.46
1:A:688:THR:HA	1:A:690:GLN:HG2	1.97	0.46
1:C:871:ALA:HA	1:C:874:THR:HG22	1.96	0.46
1:A:989:ALA:O	1:A:993:ILE:HG12	2.15	0.46
1:C:606:ASN:O	1:C:606:ASN:ND2	2.37	0.46
1:B:1123:SER:OG	1:C:914:ASN:OD1	2.20	0.46
1:A:730:SER:OG	1:A:731:MET:N	2.46	0.46
1:A:796:ASP:OD1	1:A:796:ASP:N	2.48	0.46
1:B:129:LYS:NZ	1:B:168:PHE:O	2.40	0.46
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.98	0.46
1:A:712:ILE:HD11	1:B:896:ILE:HD12	1.97	0.46
1:C:406:GLU:N	1:C:406:GLU:OE2	2.49	0.46
1:B:728:PRO:HD3	1:B:947:LYS:HG3	1.97	0.46
1:C:1039:ARG:HG2	1:C:1042:PHE:HB2	1.97	0.46
1:A:731:MET:H	1:A:774:GLN:NE2	2.13	0.46
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.97	0.46
1:C:390:LEU:HD12	1:C:391:CYS:H	1.79	0.46
1:C:276:LEU:HD21	1:C:304:LYS:HA	1.98	0.46
1:C:720:ILE:HD11	1:C:1065:VAL:HG12	1.96	0.46
1:A:108:THR:O	1:A:237:ARG:NH2	2.49	0.46
1:C:326:ILE:HD11	1:C:534:VAL:HG22	1.98	0.46
1:C:785:VAL:HG12	1:C:787:GLN:H	1.80	0.46
1:C:788:ILE:HG13	1:C:876:ALA:HB2	1.98	0.46
1:A:310:LYS:HG3	1:A:600:PRO:HA	1.97	0.46
1:A:34:ARG:NH2	1:A:221:SER:H	2.14	0.46
1:A:796:ASP:OD1	1:A:796:ASP:N	2.49	0.46
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.44	0.46
1:C:355:ARG:NH2	1:C:398:ASP:OD2	2.49	0.46
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.96	0.46
1:C:1115:ILE:HG22	1:C:1137:VAL:HG23	1.98	0.46
1:A:756:TYR:HB3	1:A:759:PHE:CD2	2.50	0.46
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.97	0.46
1:B:619:GLU:N	1:B:619:GLU:OE1	2.49	0.46
1:C:87:ASN:OD1	1:C:87:ASN:N	2.46	0.46
1:C:183:GLN:HG3	1:C:187:LYS:HG3	1.97	0.46
1:A:222:ALA:HB2	1:A:285:ILE:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:796:ASP:OD1	1:A:796:ASP:N	2.49	0.46
1:C:31:SER:O	1:C:31:SER:OG	2.31	0.46
1:C:617:CYS:N	1:C:649:CYS:SG	2.87	0.46
1:B:85:PRO:HA	1:B:237:ARG:HD2	1.97	0.46
1:B:564:GLN:HG2	1:B:577:ARG:HD2	1.98	0.46
1:C:303:LEU:HD23	1:C:308:VAL:HG22	1.98	0.46
1:A:954:GLN:HG3	1:A:1014:ARG:HE	1.79	0.46
1:B:58:PHE:HD2	1:B:290:ASP:HB2	1.81	0.46
1:B:296:LEU:O	1:B:299:THR:OG1	2.31	0.46
1:A:87:ASN:OD1	1:A:87:ASN:N	2.49	0.46
1:A:1010:GLN:OE1	1:A:1014:ARG:NH2	2.49	0.46
1:C:966:LEU:HD13	1:C:1000:ARG:HH22	1.79	0.46
1:C:1028:LYS:HB3	1:C:1062:PHE:HE1	1.80	0.46
1:B:562:PHE:CZ	1:C:225:PRO:HG2	2.51	0.46
1:B:565:PHE:O	1:C:43:PHE:HB3	2.15	0.46
1:C:770:ILE:HA	1:C:773:GLU:HG3	1.96	0.46
1:C:105:ILE:HG23	1:C:239:GLN:HB3	1.98	0.46
1:C:130:VAL:HG21	1:C:231:ILE:HD11	1.98	0.46
1:C:393:THR:OG1	1:C:394:ASN:N	2.48	0.46
1:A:688:THR:HA	1:A:690:GLN:HG2	1.98	0.46
1:B:353:TRP:HH2	1:B:464:PHE:HA	1.80	0.46
1:A:403:ARG:NH2	1:B:372:ALA:O	2.33	0.46
1:A:564:GLN:HG2	1:A:565:PHE:CD1	2.50	0.46
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.98	0.46
1:B:33:THR:OG1	1:B:34:ARG:NH2	2.47	0.46
1:C:93:ALA:HB3	1:C:266:TYR:HB2	1.97	0.46
1:B:719:THR:HG23	1:B:1068:VAL:HB	1.96	0.46
1:A:1031:GLU:OE1	1:C:1039:ARG:HG3	2.14	0.46
1:C:807:PRO:HG2	1:C:875:SER:HB2	1.96	0.46
1:C:951:VAL:HA	1:C:954:GLN:NE2	2.31	0.46
1:B:365:TYR:HE2	1:B:387:LEU:HD12	1.80	0.46
1:A:882:ILE:HD12	1:A:882:ILE:HA	1.79	0.46
1:B:767:LEU:HD21	1:B:1008:VAL:HG12	1.98	0.46
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.97	0.46
1:A:226:LEU:HD23	1:A:227:VAL:HG12	1.97	0.46
1:A:222:ALA:HB2	1:A:285:ILE:HB	1.98	0.46
1:A:289:VAL:HG13	1:A:297:SER:HB3	1.97	0.46
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.98	0.46
1:B:287:ASP:OD1	1:B:288:ALA:N	2.48	0.46
1:B:751:ASN:HA	1:B:754:LEU:HG	1.97	0.46
1:C:34:ARG:NH2	1:C:221:SER:H	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:LEU:HD12	1:A:391:CYS:H	1.80	0.46
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.98	0.46
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.97	0.46
1:A:58:PHE:HD2	1:A:290:ASP:HB2	1.80	0.46
1:A:796:ASP:OD1	1:A:796:ASP:N	2.49	0.46
1:C:398:ASP:HB2	1:C:512:VAL:HG22	1.97	0.46
1:C:989:ALA:O	1:C:993:ILE:HD12	2.16	0.46
1:A:562:PHE:CE1	1:B:225:PRO:HG2	2.51	0.46
1:B:102:ARG:HD2	1:B:141:LEU:HD22	1.98	0.46
1:A:1105:THR:HG21	1:A:1110:TYR:HD1	1.80	0.46
1:B:48:LEU:HD12	1:B:276:LEU:HD11	1.97	0.46
1:B:680:ALA:H	1:C:864:LEU:HA	1.81	0.46
1:A:462:LYS:HE2	1:A:465:GLU:HG3	1.96	0.46
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.80	0.46
1:C:439:ASN:ND2	1:C:506:GLN:OE1	2.49	0.46
1:B:58:PHE:HD2	1:B:290:ASP:HB2	1.81	0.46
1:C:48:LEU:HB3	1:C:276:LEU:HD11	1.98	0.46
1:C:315:THR:OG1	1:C:316:SER:N	2.48	0.46
1:C:390:LEU:HD12	1:C:391:CYS:H	1.80	0.46
1:B:390:LEU:HD12	1:B:391:CYS:H	1.80	0.46
1:B:978:ASN:HA	1:B:981:LEU:HG	1.97	0.46
1:A:825:LYS:HZ2	1:A:945:LEU:HG	1.81	0.46
1:A:37:TYR:OH	1:A:54:LEU:O	2.25	0.46
1:A:457:ARG:NH2	1:A:467:ASP:OD2	2.45	0.46
1:C:902:MET:HB3	1:C:916:LEU:HD11	1.98	0.46
1:A:796:ASP:OD1	1:A:796:ASP:N	2.49	0.46
1:B:566:GLY:HA2	1:C:43:PHE:HB3	1.98	0.46
1:B:983:ARG:HG3	1:B:984:LEU:HD23	1.97	0.46
1:C:543:PHE:HE1	1:C:552:LEU:HD11	1.80	0.46
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.98	0.46
1:C:99:ASN:HD21	1:C:177:MET:HE2	1.81	0.46
1:A:295:PRO:HA	1:A:298:GLU:HB2	1.98	0.46
1:A:1052:PHE:HB2	1:A:1063:LEU:HD12	1.98	0.46
1:C:532:ASN:OD1	1:C:533:LEU:N	2.49	0.46
1:B:41:LYS:HD3	1:B:225:PRO:HG2	1.97	0.46
1:C:49:HIS:CE1	1:C:51:THR:HG22	2.51	0.46
1:C:971:GLY:HA3	1:C:995:ARG:HH21	1.81	0.46
1:A:498:GLN:H	1:A:501:TYR:HE1	1.62	0.46
1:A:1031:GLU:CD	1:C:1039:ARG:HG3	2.41	0.46
1:B:775:ASP:HB3	1:B:864:LEU:HD13	1.98	0.46
1:B:984:LEU:HD12	1:B:989:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:ILE:HD11	1:A:534:VAL:HG22	1.96	0.46
1:B:435:ALA:HB2	1:B:510:VAL:HG22	1.96	0.46
1:C:989:ALA:O	1:C:993:ILE:HD12	2.16	0.46
1:A:395:VAL:HG22	1:A:515:PHE:HB3	1.98	0.46
1:A:688:THR:HA	1:A:690:GLN:HG2	1.98	0.46
1:C:560:LEU:HD23	1:C:561:PRO:HD2	1.98	0.46
1:A:989:ALA:O	1:A:993:ILE:HG12	2.15	0.46
1:B:729:VAL:HG21	1:B:781:VAL:HG11	1.98	0.46
1:C:394:ASN:OD1	1:C:394:ASN:N	2.47	0.46
1:C:557:LYS:HE2	1:C:559:PHE:HE2	1.81	0.46
1:A:358:ILE:HB	1:A:395:VAL:HG23	1.98	0.46
1:C:385:THR:OG1	1:C:386:LYS:N	2.48	0.46
1:C:762:GLN:HA	1:C:765:ARG:HE	1.80	0.46
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.96	0.46
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.97	0.46
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.98	0.46
1:B:40:ASP:OD1	1:B:42:VAL:HG12	2.16	0.46
1:B:977:LEU:HD22	1:B:993:ILE:HG22	1.98	0.46
1:A:205:SER:HB3	1:A:226:LEU:HD22	1.97	0.46
1:B:882:ILE:HD12	1:B:882:ILE:HA	1.71	0.46
1:A:295:PRO:HA	1:A:298:GLU:HB3	1.97	0.46
1:A:326:ILE:HD11	1:A:534:VAL:HG22	1.97	0.46
1:B:319:ARG:HH22	1:C:745:ASP:H	1.64	0.46
1:C:576:VAL:HG12	1:C:587:ILE:HD11	1.96	0.46
1:B:326:ILE:HD13	1:B:533:LEU:HD12	1.98	0.46
1:C:1050:MET:HE2	1:C:1050:MET:HB3	1.77	0.46
1:A:390:LEU:HD12	1:A:391:CYS:H	1.81	0.46
1:C:240:THR:OG1	1:C:245:HIS:NE2	2.41	0.46
1:B:33:THR:OG1	1:B:219:GLY:O	2.27	0.46
1:B:796:ASP:OD1	1:B:796:ASP:N	2.48	0.46
1:A:1039:ARG:NE	1:B:1031:GLU:OE2	2.44	0.46
1:B:425:LEU:HD23	1:B:429:PHE:CD1	2.51	0.46
1:B:44:ARG:HH12	1:B:49:HIS:CD2	2.34	0.46
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.98	0.46
1:C:398:ASP:HB2	1:C:512:VAL:HG22	1.98	0.46
1:C:452:LEU:HA	1:C:494:SER:HA	1.98	0.46
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.46
1:C:807:PRO:HA	1:C:816:SER:HA	1.96	0.46
1:A:809:PRO:HA	1:A:814:LYS:HD2	1.97	0.46
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.44	0.46
1:A:976:VAL:HG13	1:A:979:ASP:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:642:VAL:HG22	1:C:651:ILE:HG22	1.97	0.46
1:B:298:GLU:HB3	1:B:315:THR:HG21	1.98	0.46
1:B:785:VAL:HG12	1:B:787:GLN:H	1.80	0.46
1:C:756:TYR:HB3	1:C:759:PHE:HD2	1.80	0.46
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.98	0.46
1:B:386:LYS:O	1:B:390:LEU:HB2	2.15	0.46
1:B:429:PHE:HE2	1:B:514:SER:HA	1.80	0.46
1:B:809:PRO:HA	1:B:814:LYS:HD2	1.98	0.46
1:A:133:PHE:CE2	1:A:160:TYR:HB3	2.50	0.46
1:A:728:PRO:HD3	1:A:947:LYS:HG2	1.98	0.46
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.98	0.46
1:B:403:ARG:NH2	1:C:372:ALA:O	2.37	0.46
1:C:365:TYR:O	1:C:369:TYR:HB2	2.16	0.46
1:C:412:PRO:HD3	1:C:425:LEU:HD23	1.98	0.46
1:A:997:ILE:O	1:A:1001:LEU:HB3	2.16	0.46
1:B:296:LEU:O	1:B:299:THR:OG1	2.29	0.46
1:B:314:GLN:HE22	1:B:594:GLY:HA3	1.81	0.46
1:B:390:LEU:HD12	1:B:391:CYS:H	1.81	0.46
1:C:366:SER:O	1:C:370:ASN:HB2	2.15	0.46
1:B:557:LYS:HB3	1:B:559:PHE:HE2	1.81	0.46
1:C:296:LEU:O	1:C:299:THR:OG1	2.31	0.46
1:A:483:VAL:HG12	1:A:484:LYS:HG3	1.98	0.46
1:A:456:PHE:HB3	1:A:473:TYR:HD1	1.81	0.46
1:A:737:ASP:OD1	1:A:737:ASP:N	2.40	0.46
1:B:37:TYR:HB3	1:B:223:LEU:HB2	1.98	0.46
1:A:882:ILE:HD12	1:A:882:ILE:HA	1.87	0.46
1:B:37:TYR:HB3	1:B:223:LEU:HB2	1.98	0.46
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.98	0.46
1:A:65:PHE:HE1	1:A:84:LEU:HD11	1.80	0.46
1:B:287:ASP:OD1	1:B:288:ALA:N	2.48	0.46
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.80	0.46
1:B:877:LEU:O	1:B:881:THR:HG23	2.16	0.46
1:C:393:THR:OG1	1:C:520:ALA:O	2.32	0.46
1:C:948:LEU:HD11	1:C:1059:GLY:HA3	1.96	0.46
1:B:398:ASP:HB2	1:B:512:VAL:HG13	1.98	0.46
1:C:751:ASN:HA	1:C:754:LEU:HG	1.98	0.46
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.97	0.46
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.98	0.46
1:A:759:PHE:HA	1:A:762:GLN:HG3	1.97	0.46
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.97	0.46
1:B:878:LEU:O	1:B:882:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.97	0.46
1:B:950:ASP:HA	1:B:953:ASN:ND2	2.30	0.46
1:C:197:ILE:HG13	1:C:198:ASP:OD2	2.16	0.46
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.35	0.46
1:A:115:GLN:HB2	1:A:233:ILE:HG12	1.97	0.46
1:A:796:ASP:OD1	1:A:796:ASP:N	2.49	0.46
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.97	0.46
1:C:989:ALA:O	1:C:993:ILE:HG12	2.16	0.46
1:C:64:TRP:HE1	1:C:264:ALA:HB1	1.80	0.46
1:C:105:ILE:HG23	1:C:239:GLN:HB3	1.97	0.46
1:A:599:THR:HB	1:A:608:VAL:HG23	1.96	0.46
1:B:408:ARG:HE	1:B:409:GLN:HG3	1.80	0.46
1:C:129:LYS:NZ	1:C:168:PHE:H	2.14	0.46
1:B:406:GLU:HG2	1:B:418:ILE:HG12	1.98	0.46
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.98	0.46
1:A:386:LYS:NZ	1:B:984:LEU:O	2.47	0.46
1:A:802:PHE:HB3	1:A:806:LEU:HD23	1.98	0.46
1:B:195:LYS:HE3	1:B:202:LYS:HD3	1.98	0.46
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.32	0.46
1:A:326:ILE:HD11	1:A:534:VAL:HG22	1.97	0.46
1:C:358:ILE:HB	1:C:395:VAL:HG23	1.98	0.46
1:C:722:VAL:HG22	1:C:930:ALA:HB1	1.96	0.46
1:B:350:VAL:HA	1:B:400:PHE:HB2	1.98	0.46
1:C:313:TYR:HB2	1:C:597:VAL:HG12	1.98	0.46
1:C:1014:ARG:O	1:C:1018:ILE:HG12	2.16	0.46
1:C:290:ASP:HB3	1:C:293:LEU:HB2	1.97	0.46
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.24	0.46
1:A:214:ARG:O	1:A:214:ARG:NH1	2.49	0.46
1:C:276:LEU:HD13	1:C:301:CYS:HA	1.97	0.46
1:B:751:ASN:HA	1:B:754:LEU:HG	1.97	0.46
1:C:733:LYS:HD3	1:C:771:ALA:HB1	1.97	0.46
1:A:92:PHE:HE1	1:A:94:SER:HB2	1.80	0.46
1:A:328:ARG:NH1	1:A:531:THR:O	2.44	0.46
1:B:287:ASP:OD1	1:B:288:ALA:N	2.49	0.46
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.39	0.46
1:C:442:ASP:OD2	1:C:509:ARG:NE	2.41	0.46
1:A:985:ASP:O	1:A:989:ALA:CB	2.64	0.46
1:B:216:LEU:HD21	1:B:266:TYR:HE2	1.80	0.46
1:B:513:LEU:HB3	1:B:515:PHE:HE2	1.81	0.46
1:C:338:PHE:HE1	1:C:369:TYR:H	1.63	0.46
1:B:955:ASN:C	1:B:955:ASN:HD22	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:606:ASN:O	1:C:606:ASN:ND2	2.36	0.46
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.32	0.46
1:C:390:LEU:HD12	1:C:391:CYS:H	1.80	0.46
1:C:1073:LYS:HE3	1:C:1075:PHE:HZ	1.81	0.46
1:A:483:VAL:HG12	1:A:484:LYS:HG3	1.98	0.46
1:B:471:GLU:OE2	1:C:113:LYS:NZ	2.44	0.46
1:A:762:GLN:HA	1:A:765:ARG:HH21	1.81	0.46
1:B:950:ASP:OD1	1:B:950:ASP:N	2.47	0.46
1:A:108:THR:O	1:A:237:ARG:NH2	2.49	0.46
1:A:389:ASP:OD1	1:A:528:LYS:NZ	2.47	0.46
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	1.97	0.46
1:B:503:VAL:HA	1:B:506:GLN:HG3	1.96	0.46
1:B:936:ASP:O	1:B:940:SER:OG	2.24	0.46
1:A:994:ASP:HA	1:A:997:ILE:HG12	1.98	0.46
1:C:302:THR:O	1:C:304:LYS:NZ	2.48	0.46
1:A:100:ILE:HG21	1:A:263:ALA:HB2	1.98	0.46
1:A:332:ILE:HG13	1:A:362:VAL:HG22	1.97	0.46
1:A:486:PHE:O	1:A:487:ASN:ND2	2.49	0.46
1:B:287:ASP:OD1	1:B:288:ALA:N	2.49	0.46
1:C:905:ARG:HE	1:C:1050:MET:HE3	1.80	0.46
1:A:756:TYR:HB3	1:A:759:PHE:HD2	1.81	0.46
1:B:42:VAL:O	1:B:44:ARG:NH1	2.49	0.46
1:B:491:PRO:HG2	1:B:492:LEU:HD22	1.97	0.46
1:C:737:ASP:N	1:C:737:ASP:OD1	2.42	0.46
1:A:100:ILE:HA	1:A:246:ILE:HD12	1.97	0.46
1:C:650:LEU:HD13	1:C:653:ALA:HB3	1.98	0.46
1:B:796:ASP:N	1:B:796:ASP:OD2	2.49	0.46
1:A:869:MET:HE2	1:A:869:MET:HB3	1.92	0.46
1:A:955:ASN:HD22	1:A:955:ASN:HA	1.48	0.46
1:B:366:SER:O	1:B:370:ASN:HB2	2.15	0.46
1:C:785:VAL:HG12	1:C:787:GLN:H	1.80	0.46
1:A:452:LEU:HD23	1:A:492:LEU:HB3	1.97	0.46
1:A:717:ASN:OD1	1:A:718:PHE:N	2.49	0.46
1:A:788:ILE:HB	1:C:702:GLU:HA	1.97	0.46
1:A:976:VAL:HG23	1:A:979:ASP:HB3	1.97	0.46
1:B:778:THR:HA	1:B:781:VAL:HG12	1.98	0.46
1:C:560:LEU:HD12	1:C:561:PRO:HD2	1.98	0.46
1:A:390:LEU:HD12	1:A:391:CYS:H	1.81	0.46
1:C:730:SER:OG	1:C:731:MET:N	2.49	0.46
1:A:168:PHE:HE2	1:C:466:ARG:HH12	1.64	0.46
1:B:984:LEU:HD13	1:B:988:GLU:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:775:ASP:HB3	1:B:864:LEU:HD13	1.98	0.46
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.44	0.46
1:B:699:LEU:HG	1:C:873:TYR:HE1	1.81	0.46
1:C:978:ASN:HA	1:C:981:LEU:HG	1.98	0.46
1:A:390:LEU:HD12	1:A:391:CYS:H	1.81	0.46
1:B:287:ASP:OD1	1:B:288:ALA:N	2.49	0.46
1:B:366:SER:O	1:B:370:ASN:HB2	2.15	0.46
1:C:785:VAL:HG12	1:C:787:GLN:H	1.81	0.46
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.16	0.46
1:A:611:LEU:HD13	1:A:650:LEU:HD13	1.97	0.46
1:B:393:THR:OG1	1:B:394:ASN:N	2.49	0.46
1:C:984:LEU:HD23	1:C:988:GLU:HB2	1.97	0.46
1:A:315:THR:OG1	1:A:316:SER:N	2.49	0.46
1:A:533:LEU:HB3	1:A:535:LYS:HZ3	1.81	0.46
1:A:574:ASP:OD2	1:A:574:ASP:N	2.48	0.46
1:A:1031:GLU:OE2	1:C:1039:ARG:HG3	2.16	0.46
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.97	0.46
1:B:728:PRO:HD3	1:B:947:LYS:HG3	1.98	0.46
1:B:735:SER:HB2	1:B:861:LEU:HD21	1.98	0.46
1:C:532:ASN:OD1	1:C:533:LEU:N	2.49	0.46
1:A:761:THR:O	1:A:765:ARG:HB3	2.16	0.45
1:A:989:ALA:O	1:A:993:ILE:HG13	2.15	0.45
1:B:497:PHE:CE2	1:B:507:PRO:HB3	2.51	0.45
1:C:858:LEU:HD13	1:C:959:LEU:HB3	1.97	0.45
1:C:1067:TYR:OH	1:C:1108:ASN:O	2.34	0.45
1:B:222:ALA:HB2	1:B:285:ILE:HB	1.98	0.45
1:B:532:ASN:OD1	1:B:533:LEU:N	2.49	0.45
1:A:796:ASP:OD1	1:A:796:ASP:N	2.49	0.45
1:A:722:VAL:HG12	1:A:1065:VAL:HG22	1.99	0.45
1:B:984:LEU:HB2	1:B:989:ALA:HB2	1.98	0.45
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.98	0.45
1:C:642:VAL:HG22	1:C:651:ILE:HG22	1.98	0.45
1:C:84:LEU:HD11	1:C:267:VAL:HG11	1.98	0.45
1:A:658:ASN:C	1:A:658:ASN:ND2	2.73	0.45
1:A:1041:ASP:OD1	1:B:1030:SER:HB2	2.16	0.45
1:B:152:TRP:HB3	1:B:179:LEU:HD12	1.98	0.45
1:B:403:ARG:HG2	1:B:406:GLU:OE1	2.16	0.45
1:B:887:THR:HG21	1:B:894:LEU:HB2	1.99	0.45
1:B:973:ILE:HB	1:B:980:ILE:HD11	1.98	0.45
1:C:100:ILE:HA	1:C:246:ILE:HD12	1.98	0.45
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.98	0.45
1:C:532:ASN:OD1	1:C:533:LEU:N	2.49	0.45
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.35	0.45
1:A:433:VAL:HG12	1:A:512:VAL:HG22	1.97	0.45
1:B:287:ASP:OD1	1:B:288:ALA:N	2.49	0.45
1:C:1096:VAL:HG11	1:C:1105:THR:HG22	1.97	0.45
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.98	0.45
1:C:555:SER:HB2	1:C:586:ASP:OD1	2.16	0.45
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.98	0.45
1:C:606:ASN:O	1:C:606:ASN:ND2	2.37	0.45
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.97	0.45
1:C:231:ILE:HG13	1:C:233:ILE:HG22	1.98	0.45
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.97	0.45
1:A:360:ASN:H	1:A:523:THR:HB	1.81	0.45
1:B:909:ILE:HG23	1:B:911:VAL:HG12	1.98	0.45
1:B:971:GLY:HA3	1:B:995:ARG:HH12	1.81	0.45
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	1.98	0.45
1:A:737:ASP:OD1	1:A:740:MET:HB3	2.15	0.45
1:B:57:PRO:HG3	1:B:273:ARG:HG3	1.98	0.45
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.97	0.45
1:A:722:VAL:HG12	1:A:1065:VAL:HG22	1.98	0.45
1:B:809:PRO:HA	1:B:814:LYS:HD2	1.97	0.45
1:B:984:LEU:HD12	1:B:988:GLU:HB2	1.97	0.45
1:B:679:GLY:HA2	1:C:864:LEU:HD13	1.97	0.45
1:C:994:ASP:O	1:C:998:THR:HG23	2.16	0.45
1:A:787:GLN:HG2	1:C:701:VAL:HG13	1.99	0.45
1:A:791:THR:HG21	1:A:806:LEU:HD11	1.97	0.45
1:C:751:ASN:HA	1:C:754:LEU:HG	1.98	0.45
1:A:195:LYS:HE3	1:A:202:LYS:HG3	1.97	0.45
1:A:735:SER:O	1:A:859:THR:OG1	2.30	0.45
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.96	0.45
1:B:912:THR:O	1:B:915:VAL:HG12	2.16	0.45
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.98	0.45
1:C:871:ALA:HA	1:C:874:THR:HG22	1.98	0.45
1:C:426:PRO:HD3	1:C:463:PRO:HB3	1.98	0.45
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.33	0.45
1:C:34:ARG:HH21	1:C:221:SER:HB3	1.81	0.45
1:C:287:ASP:OD1	1:C:288:ALA:N	2.49	0.45
1:A:347:PHE:CE1	1:A:509:ARG:HD3	2.51	0.45
1:B:1086:LYS:HE3	1:B:1122:VAL:HG11	1.98	0.45
1:C:735:SER:HB3	1:C:861:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:871:ALA:HA	1:C:874:THR:HG22	1.97	0.45
1:A:989:ALA:O	1:A:993:ILE:HG12	2.16	0.45
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.81	0.45
1:B:978:ASN:HA	1:B:981:LEU:HG	1.99	0.45
1:A:483:VAL:HG12	1:A:484:LYS:HG3	1.99	0.45
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.45	0.45
1:C:366:SER:O	1:C:370:ASN:HB2	2.16	0.45
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.97	0.45
1:C:767:LEU:HA	1:C:770:ILE:HG12	1.97	0.45
1:C:905:ARG:NH1	1:C:1036:GLN:HB2	2.31	0.45
1:C:871:ALA:HA	1:C:874:THR:HG22	1.97	0.45
1:A:1033:VAL:HA	1:A:1051:SER:HB2	1.99	0.45
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.99	0.45
1:C:318:PHE:HB3	1:C:591:SER:O	2.16	0.45
1:A:108:THR:OG1	1:A:234:ASN:O	2.33	0.45
1:B:204:TYR:CE1	1:B:225:PRO:HB3	2.51	0.45
1:B:326:ILE:HD13	1:B:533:LEU:HD12	1.98	0.45
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.98	0.45
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	1.99	0.45
1:B:947:LYS:HE3	1:B:947:LYS:HB2	1.87	0.45
1:C:99:ASN:HB3	1:C:102:ARG:NH2	2.32	0.45
1:A:574:ASP:O	1:A:587:ILE:N	2.37	0.45
1:A:884:SER:OG	1:A:887:THR:OG1	2.30	0.45
1:B:877:LEU:O	1:B:881:THR:HG23	2.17	0.45
1:C:57:PRO:HB2	1:C:60:SER:HB3	1.98	0.45
1:A:483:VAL:HG12	1:A:484:LYS:HG3	1.99	0.45
1:B:674:CYS:HB2	1:B:697:MET:HG3	1.99	0.45
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.98	0.45
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.89	0.45
1:B:1013:ILE:HD13	1:C:1012:LEU:HG	1.97	0.45
1:C:121:ASN:HA	1:C:126:VAL:HA	1.98	0.45
1:C:287:ASP:OD1	1:C:288:ALA:N	2.50	0.45
1:B:113:LYS:HG2	1:B:114:THR:HG23	1.99	0.45
1:C:918:GLU:N	1:C:918:GLU:OE1	2.49	0.45
1:A:569:ILE:HG13	1:B:47:VAL:HG23	1.99	0.45
1:B:966:LEU:HA	1:B:1000:ARG:HH12	1.80	0.45
1:A:476:GLY:H	1:A:487:ASN:HB3	1.81	0.45
1:A:567:ARG:HG2	1:B:42:VAL:HG13	1.98	0.45
1:B:954:GLN:OE1	1:B:1014:ARG:NE	2.49	0.45
1:C:918:GLU:OE2	1:C:918:GLU:N	2.49	0.45
1:B:912:THR:O	1:B:915:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.99	0.45
1:A:712:ILE:HD13	1:A:712:ILE:HA	1.74	0.45
1:B:822:LEU:HG	1:B:945:LEU:HD21	1.98	0.45
1:A:177:MET:HE1	1:A:190:ARG:HH12	1.82	0.45
1:A:950:ASP:N	1:A:950:ASP:OD1	2.46	0.45
1:B:751:ASN:HA	1:B:754:LEU:HG	1.97	0.45
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.98	0.45
1:C:642:VAL:HG22	1:C:651:ILE:HG22	1.98	0.45
1:B:105:ILE:HD12	1:B:241:LEU:HD21	1.98	0.45
1:A:115:GLN:HB2	1:A:233:ILE:HG12	1.96	0.45
1:A:984:LEU:O	1:C:386:LYS:NZ	2.41	0.45
1:B:712:ILE:HG12	1:B:1094:VAL:HG11	1.98	0.45
1:A:599:THR:HB	1:A:608:VAL:HG23	1.97	0.45
1:B:84:LEU:HB2	1:B:237:ARG:HH12	1.81	0.45
1:A:115:GLN:HE21	1:A:233:ILE:HD13	1.82	0.45
1:B:92:PHE:HE2	1:B:265:TYR:HB2	1.81	0.45
1:B:565:PHE:O	1:C:43:PHE:HB3	2.17	0.45
1:B:777:ASN:HA	1:B:780:GLU:HG3	1.97	0.45
1:A:687:GLN:HG2	1:A:693:ILE:HD13	1.97	0.45
1:B:978:ASN:HA	1:B:981:LEU:HG	1.97	0.45
1:A:787:GLN:HE21	1:C:703:ASN:HB3	1.82	0.45
1:B:327:VAL:O	1:B:531:THR:OG1	2.23	0.45
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.98	0.45
1:C:320:VAL:HA	1:C:592:PHE:HB2	1.98	0.45
1:C:423:TYR:HE2	1:C:425:LEU:HD23	1.82	0.45
1:A:776:LYS:HZ3	1:A:1019:ARG:HH21	1.63	0.45
1:B:361:CYS:H	1:B:522:ALA:HB1	1.81	0.45
1:B:699:LEU:HD21	1:C:869:MET:HB3	1.98	0.45
1:B:773:GLU:OE2	1:B:774:GLN:NE2	2.46	0.45
1:B:866:THR:H	1:B:869:MET:HE2	1.81	0.45
1:C:976:VAL:HG13	1:C:979:ASP:HB3	1.98	0.45
1:B:202:LYS:HZ1	1:B:225:PRO:HB3	1.81	0.45
1:B:775:ASP:HB3	1:B:864:LEU:HD13	1.99	0.45
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.99	0.45
1:C:1054:GLN:HB2	1:C:1061:VAL:HG13	1.99	0.45
1:B:350:VAL:HG21	1:B:418:ILE:HD11	1.99	0.45
1:C:1031:GLU:HG3	1:C:1039:ARG:HH21	1.82	0.45
1:A:128:ILE:HB	1:A:170:TYR:HD2	1.81	0.45
1:B:175:PHE:HE2	1:B:177:MET:HE2	1.81	0.45
1:A:457:ARG:NH2	1:A:467:ASP:OD2	2.39	0.45
1:A:796:ASP:OD1	1:A:796:ASP:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.97	0.45
1:C:37:TYR:OH	1:C:54:LEU:O	2.35	0.45
1:C:1096:VAL:HG11	1:C:1105:THR:HG22	1.97	0.45
1:B:15:CYS:SG	1:B:137:ASN:N	2.87	0.45
1:A:574:ASP:OD1	1:A:574:ASP:N	2.48	0.45
1:A:987:PRO:HD2	1:A:988:GLU:OE1	2.16	0.45
1:B:48:LEU:HD12	1:B:276:LEU:HD11	1.98	0.45
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	1.99	0.45
1:C:785:VAL:HG12	1:C:787:GLN:H	1.81	0.45
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.73	0.45
1:B:353:TRP:HH2	1:B:464:PHE:HD1	1.64	0.45
1:C:299:THR:HG22	1:C:597:VAL:HG21	1.97	0.45
1:C:326:ILE:HD13	1:C:533:LEU:HD12	1.98	0.45
1:A:826:VAL:HB	1:A:1057:PRO:HG2	1.99	0.45
1:C:390:LEU:HD12	1:C:391:CYS:H	1.80	0.45
1:A:984:LEU:HD13	1:A:988:GLU:HG2	1.99	0.45
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.97	0.45
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.97	0.45
1:B:56:LEU:HD22	1:B:91:TYR:CD2	2.51	0.45
1:B:785:VAL:HG12	1:B:787:GLN:H	1.81	0.45
1:A:220:PHE:HE2	1:A:285:ILE:HG22	1.82	0.45
1:C:825:LYS:HD2	1:C:945:LEU:HD13	1.98	0.45
1:B:206:LYS:HB2	1:B:223:LEU:HA	1.98	0.45
1:B:738:CYS:HB2	1:B:763:LEU:HD21	1.98	0.45
1:B:774:GLN:HA	1:B:777:ASN:ND2	2.32	0.45
1:B:1005:GLN:HA	1:B:1008:VAL:HG12	1.98	0.45
1:C:756:TYR:CE2	1:C:997:ILE:HD12	2.52	0.45
1:C:884:SER:OG	1:C:887:THR:OG1	2.29	0.45
1:C:985:ASP:OD1	1:C:985:ASP:N	2.49	0.45
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.98	0.45
1:A:455:LEU:HD11	1:A:493:GLN:HB3	1.98	0.45
1:B:457:ARG:NH1	1:B:459:SER:O	2.50	0.45
1:B:989:ALA:O	1:B:993:ILE:HG12	2.17	0.45
1:A:989:ALA:O	1:A:993:ILE:HD12	2.16	0.45
1:C:1073:LYS:HE3	1:C:1075:PHE:CZ	2.50	0.45
1:A:825:LYS:HB2	1:A:945:LEU:HD12	1.98	0.45
1:A:353:TRP:HH2	1:A:464:PHE:HA	1.82	0.45
1:B:97:LYS:HG3	1:B:186:PHE:HD1	1.82	0.45
1:C:195:LYS:HD3	1:C:270:LEU:HD12	1.98	0.45
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.98	0.45
1:A:128:ILE:HB	1:A:170:TYR:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:972:ALA:HB2	1:A:996:LEU:HD21	1.99	0.45
1:A:701:VAL:HG13	1:B:787:GLN:HG2	1.98	0.45
1:B:733:LYS:HB3	1:B:861:LEU:HD23	1.97	0.45
1:C:390:LEU:HD12	1:C:391:CYS:H	1.82	0.45
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.22	0.45
1:C:212:LEU:HD13	1:C:217:PRO:HG3	1.99	0.45
1:C:902:MET:HB3	1:C:916:LEU:HD11	1.98	0.45
1:C:1115:ILE:HG22	1:C:1137:VAL:HG23	1.99	0.45
1:C:105:ILE:HD13	1:C:105:ILE:HA	1.77	0.45
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.98	0.45
1:A:84:LEU:HD21	1:A:267:VAL:HG11	1.96	0.45
1:A:299:THR:HG22	1:A:315:THR:HG21	1.97	0.45
1:B:729:VAL:HG21	1:B:781:VAL:HG11	1.98	0.45
1:A:212:LEU:HD13	1:A:217:PRO:HD3	1.99	0.45
1:B:393:THR:OG1	1:B:394:ASN:N	2.49	0.45
1:B:949:GLN:HA	1:B:952:VAL:HG22	1.98	0.45
1:A:756:TYR:HB3	1:A:759:PHE:HD2	1.82	0.45
1:A:1033:VAL:HG11	1:A:1053:PRO:HG3	1.98	0.45
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.97	0.45
1:A:796:ASP:OD1	1:A:796:ASP:N	2.50	0.45
1:B:726:ILE:HG22	1:B:1061:VAL:HG22	1.97	0.45
1:C:978:ASN:HA	1:C:981:LEU:HG	1.97	0.45
1:B:712:ILE:HG12	1:B:1094:VAL:HG11	1.99	0.45
1:C:431:GLY:HA2	1:C:515:PHE:CE1	2.52	0.45
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.99	0.45
1:B:402:ILE:HD12	1:B:403:ARG:H	1.81	0.45
1:A:302:THR:HG21	1:A:315:THR:HB	1.98	0.45
1:C:182:LYS:HD2	1:C:187:LYS:HG3	1.98	0.45
1:C:351:TYR:HB2	1:C:468:ILE:HB	1.98	0.45
1:A:295:PRO:HA	1:A:298:GLU:HB3	1.99	0.45
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.99	0.45
1:B:785:VAL:HG12	1:B:787:GLN:H	1.81	0.45
1:B:1001:LEU:O	1:B:1005:GLN:HG3	2.16	0.45
1:A:295:PRO:HA	1:A:298:GLU:HB2	1.98	0.45
1:A:456:PHE:HB3	1:A:473:TYR:HD2	1.81	0.45
1:C:788:ILE:HG13	1:C:876:ALA:HB2	1.98	0.45
1:B:56:LEU:HD21	1:B:91:TYR:HB2	1.98	0.45
1:B:56:LEU:HG	1:B:270:LEU:HD13	1.99	0.45
1:C:15:CYS:SG	1:C:137:ASN:N	2.86	0.45
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.81	0.45
1:B:206:LYS:HB3	1:B:223:LEU:HD22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:48:LEU:HB3	1:C:276:LEU:HD11	1.98	0.45
1:B:503:VAL:HA	1:B:506:GLN:HG3	1.99	0.45
1:B:276:LEU:HG	1:B:306:PHE:HE1	1.81	0.45
1:B:774:GLN:HE22	1:B:1018:ILE:HG21	1.81	0.45
1:A:189:LEU:HD12	1:A:217:PRO:HG2	1.99	0.45
1:B:366:SER:HB3	1:B:388:ASN:HD21	1.81	0.45
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.98	0.45
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.98	0.45
1:A:1105:THR:HG21	1:A:1110:TYR:HA	1.99	0.45
1:C:611:LEU:HB2	1:C:650:LEU:HD13	1.99	0.45
1:B:386:LYS:NZ	1:C:981:LEU:O	2.39	0.45
1:C:100:ILE:HG21	1:C:263:ALA:HB2	1.99	0.45
1:A:33:THR:OG1	1:A:219:GLY:O	2.32	0.45
1:A:105:ILE:HD12	1:A:105:ILE:HA	1.81	0.45
1:B:725:GLU:OE1	1:B:725:GLU:N	2.50	0.45
1:B:749:CYS:O	1:B:753:LEU:HB3	2.17	0.45
1:C:773:GLU:HG2	1:C:1019:ARG:HH21	1.80	0.45
1:C:1028:LYS:HE2	1:C:1028:LYS:HB2	1.75	0.45
1:A:774:GLN:HA	1:A:777:ASN:HD22	1.82	0.45
1:B:606:ASN:ND2	1:B:606:ASN:O	2.37	0.45
1:B:751:ASN:HA	1:B:754:LEU:HG	1.98	0.45
1:C:751:ASN:HA	1:C:754:LEU:HG	1.99	0.45
1:B:905:ARG:HE	1:B:1050:MET:HB3	1.81	0.45
1:C:287:ASP:OD1	1:C:288:ALA:N	2.50	0.45
1:C:390:LEU:HD12	1:C:391:CYS:H	1.82	0.45
1:A:290:ASP:HB3	1:A:293:LEU:HB2	1.99	0.45
1:A:738:CYS:SG	1:A:739:THR:N	2.90	0.45
1:A:774:GLN:HE22	1:A:1018:ILE:HG21	1.81	0.45
1:B:403:ARG:NH2	1:C:372:ALA:O	2.32	0.45
1:C:965:GLN:HE21	1:C:1003:SER:HB2	1.81	0.45
1:A:989:ALA:O	1:A:993:ILE:HG12	2.16	0.45
1:B:393:THR:OG1	1:B:394:ASN:N	2.49	0.45
1:C:390:LEU:HD12	1:C:391:CYS:H	1.81	0.45
1:C:393:THR:OG1	1:C:394:ASN:N	2.50	0.45
1:C:912:THR:OG1	1:C:1106:GLN:NE2	2.50	0.45
1:A:287:ASP:OD1	1:A:288:ALA:N	2.50	0.45
1:B:733:LYS:HB3	1:B:861:LEU:HD23	1.99	0.45
1:C:342:PHE:CE1	1:C:511:VAL:HG11	2.52	0.45
1:B:659:SER:HB3	1:B:698:SER:HB2	1.97	0.45
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	1.98	0.45
1:B:403:ARG:NH2	1:C:372:ALA:O	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:947:LYS:HE3	1:B:947:LYS:HB2	1.89	0.45
1:A:773:GLU:HG2	1:A:1019:ARG:HH21	1.82	0.45
1:C:310:LYS:NZ	1:C:663:ASP:OD2	2.44	0.45
1:B:989:ALA:O	1:B:993:ILE:HD12	2.16	0.45
1:B:785:VAL:HG12	1:B:787:GLN:H	1.81	0.45
1:C:191:GLU:HB2	1:C:223:LEU:HD11	1.98	0.45
1:C:382:VAL:HG21	1:C:515:PHE:HZ	1.82	0.45
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.34	0.45
1:A:483:VAL:HG12	1:A:484:LYS:HG3	1.99	0.45
1:B:382:VAL:HG11	1:B:515:PHE:HZ	1.81	0.45
1:B:393:THR:OG1	1:B:516:GLU:O	2.35	0.45
1:C:1106:GLN:HA	1:C:1106:GLN:NE2	2.28	0.45
1:B:972:ALA:HB2	1:B:996:LEU:HD21	1.99	0.45
1:A:295:PRO:HA	1:A:298:GLU:HB2	1.97	0.45
1:A:390:LEU:HD12	1:A:391:CYS:H	1.80	0.45
1:A:564:GLN:OE1	1:A:564:GLN:N	2.49	0.45
1:C:115:GLN:HB2	1:C:233:ILE:HD12	1.98	0.45
1:C:1038:LYS:HB3	1:C:1038:LYS:HE3	1.76	0.45
1:A:785:VAL:HG12	1:A:787:GLN:H	1.81	0.45
1:B:770:ILE:HA	1:B:773:GLU:HG3	1.98	0.45
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.98	0.45
1:B:676:THR:HA	1:B:690:GLN:HG2	1.99	0.45
1:B:779:GLN:C	1:B:779:GLN:HE21	2.23	0.45
1:C:53:ASP:OD1	1:C:195:LYS:NZ	2.49	0.45
1:C:409:GLN:NE2	1:C:418:ILE:HG12	2.31	0.45
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.99	0.45
1:C:84:LEU:HD11	1:C:267:VAL:HG11	1.98	0.45
1:B:407:VAL:O	1:B:410:ILE:HG22	2.17	0.45
1:A:31:SER:OG	1:A:60:SER:O	2.31	0.45
1:A:791:THR:HG21	1:A:806:LEU:HD11	1.99	0.45
1:A:890:ALA:HA	1:C:1046:GLY:HA2	1.98	0.45
1:B:564:GLN:HG2	1:B:577:ARG:HD2	1.98	0.45
1:B:802:PHE:HE1	1:B:927:PHE:HE2	1.65	0.45
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.98	0.45
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.99	0.45
1:C:785:VAL:HG12	1:C:787:GLN:H	1.81	0.45
1:B:412:PRO:HG3	1:B:429:PHE:HD1	1.82	0.45
1:B:415:THR:HG21	1:C:384:PRO:HG3	1.99	0.45
1:B:814:LYS:N	1:B:868:GLU:OE2	2.49	0.45
1:B:193:VAL:HB	1:B:204:TYR:HD2	1.80	0.45
1:C:44:ARG:HD2	1:C:47:VAL:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:390:LEU:HD12	1:C:391:CYS:H	1.81	0.45
1:B:404:GLY:HA2	1:B:508:TYR:CD2	2.52	0.45
1:C:355:ARG:NH2	1:C:398:ASP:OD2	2.50	0.45
1:B:35:GLY:HA3	1:B:56:LEU:HD12	1.98	0.45
1:B:106:PHE:O	1:B:117:LEU:N	2.40	0.45
1:B:398:ASP:OD2	1:B:423:TYR:OH	2.25	0.45
1:B:802:PHE:HE1	1:B:927:PHE:HE2	1.65	0.45
1:C:226:LEU:HG	1:C:227:VAL:HG13	1.99	0.45
1:C:390:LEU:HD12	1:C:391:CYS:H	1.82	0.45
1:A:787:GLN:HG2	1:C:701:VAL:HG13	1.98	0.45
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.98	0.45
1:B:195:LYS:HG3	1:B:197:ILE:HG13	1.98	0.45
1:B:293:LEU:HD22	1:B:294:ASP:OD2	2.16	0.45
1:C:523:THR:HG23	1:C:524:VAL:HG13	1.98	0.45
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	1.98	0.45
1:B:748:GLU:N	1:B:748:GLU:OE2	2.50	0.45
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.98	0.45
1:C:989:ALA:O	1:C:993:ILE:HG13	2.16	0.45
1:B:650:LEU:HD21	1:B:678:ILE:HD12	1.98	0.45
1:A:574:ASP:OD1	1:A:574:ASP:N	2.49	0.45
1:C:395:VAL:HG12	1:C:515:PHE:HB3	1.99	0.45
1:A:574:ASP:OD1	1:A:574:ASP:N	2.49	0.45
1:B:983:ARG:HB2	1:B:984:LEU:HD22	1.99	0.45
1:C:966:LEU:HD13	1:C:1000:ARG:HH22	1.81	0.45
1:B:278:LYS:HB2	1:B:306:PHE:CE2	2.52	0.45
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.98	0.45
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.28	0.45
1:A:325:SER:HA	1:A:540:ASN:HB3	1.99	0.45
1:A:332:ILE:HB	1:A:362:VAL:HG11	1.99	0.45
1:A:732:THR:OG1	1:A:955:ASN:OD1	2.19	0.45
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.99	0.45
1:C:326:ILE:HD13	1:C:533:LEU:HD12	1.99	0.45
1:C:888:PHE:HE2	1:C:1034:LEU:HB2	1.82	0.45
1:B:733:LYS:HG2	1:B:774:GLN:NE2	2.32	0.45
1:A:919:ASN:HD22	1:A:922:LEU:HD21	1.82	0.45
1:C:923:ILE:HA	1:C:926:GLN:HG3	1.99	0.45
1:A:483:VAL:HG12	1:A:484:LYS:HG3	1.99	0.45
1:C:276:LEU:HD21	1:C:304:LYS:HA	1.99	0.45
1:A:168:PHE:HZ	1:C:466:ARG:HH22	1.65	0.45
1:B:97:LYS:NZ	1:B:183:GLN:O	2.44	0.45
1:B:877:LEU:O	1:B:881:THR:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1013:ILE:HD13	1:C:1012:LEU:HB3	1.99	0.45
1:C:914:ASN:OD1	1:C:914:ASN:N	2.50	0.45
1:A:701:VAL:HG13	1:B:787:GLN:HG2	1.98	0.45
1:C:332:ILE:HG13	1:C:362:VAL:HG22	1.98	0.45
1:A:332:ILE:HG13	1:A:362:VAL:HG22	1.99	0.45
1:A:606:ASN:O	1:A:606:ASN:ND2	2.50	0.45
1:A:47:VAL:HG12	1:C:569:ILE:HA	1.98	0.45
1:C:722:VAL:HG12	1:C:1065:VAL:HG22	1.99	0.45
1:B:887:THR:HG21	1:B:894:LEU:HB2	1.98	0.45
1:C:785:VAL:HG12	1:C:787:GLN:H	1.81	0.45
1:B:287:ASP:OD1	1:B:288:ALA:N	2.50	0.45
1:B:809:PRO:HA	1:B:814:LYS:HD2	1.97	0.45
1:A:683:CYS:O	1:A:695:TYR:N	2.44	0.45
1:C:726:ILE:HG13	1:C:947:LYS:HE2	1.98	0.45
1:C:807:PRO:HA	1:C:816:SER:HA	1.99	0.45
1:A:302:THR:HG21	1:A:315:THR:HB	1.98	0.45
1:A:751:ASN:HA	1:A:754:LEU:HG	1.98	0.45
1:C:781:VAL:HG23	1:C:1026:ALA:HA	1.99	0.45
1:A:983:ARG:HD3	1:C:517:LEU:HD11	1.99	0.45
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.17	0.45
1:B:121:ASN:HA	1:B:126:VAL:HA	1.98	0.45
1:B:731:MET:H	1:B:774:GLN:NE2	2.14	0.45
1:C:102:ARG:HG2	1:C:246:ILE:HD11	1.99	0.45
1:C:247:SER:O	1:C:258:TRP:NE1	2.47	0.45
1:C:796:ASP:OD1	1:C:796:ASP:N	2.48	0.45
1:C:296:LEU:O	1:C:299:THR:OG1	2.35	0.45
1:C:330:PRO:HD3	1:C:579:PRO:HB2	1.99	0.45
1:A:109:THR:OG1	1:A:111:ASP:OD1	2.31	0.45
1:B:612:TYR:HD2	1:B:620:VAL:HG22	1.82	0.45
1:B:733:LYS:HB3	1:B:861:LEU:HD23	1.99	0.45
1:C:393:THR:OG1	1:C:394:ASN:N	2.50	0.45
1:A:1041:ASP:OD1	1:B:1030:SER:HB2	2.16	0.45
1:C:909:ILE:HD11	1:C:1047:TYR:CD1	2.52	0.45
1:A:357:ARG:HD3	1:A:396:TYR:CE1	2.52	0.45
1:A:978:ASN:HA	1:A:981:LEU:HG	1.99	0.45
1:C:99:ASN:HB3	1:C:102:ARG:HH12	1.82	0.45
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.99	0.45
1:B:366:SER:O	1:B:370:ASN:HB2	2.17	0.45
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.99	0.45
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.98	0.45
1:C:290:ASP:HB3	1:C:293:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:763:LEU:HB2	1:C:1008:VAL:HG11	1.99	0.45
1:A:787:GLN:HG2	1:C:701:VAL:HG13	1.98	0.45
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.46	0.45
1:B:613:GLN:HA	1:B:648:GLY:HA3	1.99	0.45
1:A:976:VAL:HG13	1:A:979:ASP:HB3	1.99	0.45
1:A:809:PRO:HA	1:A:814:LYS:HD2	1.99	0.45
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.99	0.45
1:B:408:ARG:HH21	1:B:409:GLN:HE21	1.64	0.45
1:C:323:THR:HB	1:C:537:LYS:HZ3	1.81	0.45
1:A:22:THR:O	1:A:78:ARG:NH1	2.50	0.45
1:B:574:ASP:OD1	1:B:574:ASP:N	2.49	0.45
1:C:216:LEU:HD21	1:C:266:TYR:HE2	1.81	0.44
1:C:773:GLU:HA	1:C:776:LYS:HE3	1.99	0.44
1:B:326:ILE:HD11	1:B:534:VAL:HG22	1.99	0.44
1:C:914:ASN:OD1	1:C:914:ASN:N	2.50	0.44
1:A:1005:GLN:HA	1:A:1008:VAL:HG22	1.98	0.44
1:A:1037:SER:OG	1:A:1039:ARG:HG2	2.16	0.44
1:C:402:ILE:HD12	1:C:403:ARG:H	1.81	0.44
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.30	0.44
1:C:231:ILE:HG13	1:C:233:ILE:HG22	1.99	0.44
1:C:574:ASP:OD1	1:C:574:ASP:N	2.49	0.44
1:C:886:TRP:HH2	1:C:904:TYR:HB3	1.82	0.44
1:A:384:PRO:HG3	1:C:415:THR:HG21	1.98	0.44
1:A:1105:THR:HG21	1:A:1110:TYR:HA	1.98	0.44
1:A:1107:ARG:HE	1:A:1107:ARG:HB3	1.61	0.44
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.97	0.44
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.98	0.44
1:B:947:LYS:HE3	1:B:947:LYS:HB2	1.86	0.44
1:C:379:CYS:CA	1:C:432:CYS:HB3	2.47	0.44
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.45	0.44
1:A:33:THR:OG1	1:A:219:GLY:O	2.24	0.44
1:C:332:ILE:HG12	1:C:524:VAL:HG21	1.99	0.44
1:C:597:VAL:HG13	1:C:608:VAL:HG13	1.99	0.44
1:A:887:THR:HB	1:A:894:LEU:HD23	1.98	0.44
1:B:1086:LYS:HE3	1:B:1122:VAL:HG11	1.99	0.44
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.31	0.44
1:C:906:PHE:CD2	1:C:916:LEU:HB2	2.52	0.44
1:A:39:PRO:HG3	1:A:51:THR:HG21	1.98	0.44
1:A:332:ILE:HG13	1:A:362:VAL:HG22	1.98	0.44
1:C:287:ASP:OD1	1:C:288:ALA:N	2.50	0.44
1:C:560:LEU:O	1:C:577:ARG:NH2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:PHE:O	1:A:117:LEU:N	2.42	0.44
1:B:1106:GLN:H	1:B:1106:GLN:HG2	1.53	0.44
1:A:96:GLU:HG3	1:A:100:ILE:HG22	1.99	0.44
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.41	0.44
1:A:326:ILE:HD11	1:A:534:VAL:HG22	2.00	0.44
1:B:382:VAL:HG11	1:B:515:PHE:HZ	1.82	0.44
1:C:190:ARG:CZ	1:C:207:HIS:CE1	3.00	0.44
1:A:611:LEU:HD13	1:A:650:LEU:HD13	1.99	0.44
1:B:365:TYR:CE2	1:B:387:LEU:HD12	2.52	0.44
1:B:287:ASP:OD1	1:B:288:ALA:N	2.50	0.44
1:B:290:ASP:HB3	1:B:293:LEU:HB2	1.99	0.44
1:A:315:THR:HG23	1:A:595:VAL:HG23	1.99	0.44
1:A:717:ASN:OD1	1:A:718:PHE:N	2.50	0.44
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.18	0.44
1:B:489:TYR:CE2	1:C:372:ALA:HB3	2.51	0.44
1:C:1127:ASP:OD2	1:C:1127:ASP:N	2.50	0.44
1:A:871:ALA:HA	1:A:874:THR:HG22	1.99	0.44
1:C:560:LEU:HD12	1:C:561:PRO:HD2	1.99	0.44
1:B:287:ASP:OD1	1:B:288:ALA:N	2.50	0.44
1:C:129:LYS:HZ3	1:C:169:GLU:HB2	1.81	0.44
1:C:290:ASP:HB3	1:C:293:LEU:HB2	1.99	0.44
1:B:406:GLU:HB3	1:B:418:ILE:HG21	1.98	0.44
1:B:406:GLU:HA	1:B:409:GLN:NE2	2.32	0.44
1:A:785:VAL:HG12	1:A:787:GLN:H	1.81	0.44
1:C:404:GLY:HA2	1:C:407:VAL:HG13	1.98	0.44
1:A:701:VAL:HG13	1:B:787:GLN:HG2	1.99	0.44
1:A:390:LEU:HD12	1:A:391:CYS:H	1.82	0.44
1:C:782:PHE:HE1	1:C:870:ILE:HD11	1.81	0.44
1:A:971:GLY:H	1:B:755:GLN:NE2	2.14	0.44
1:B:656:VAL:HG12	1:B:658:ASN:H	1.82	0.44
1:C:431:GLY:HA2	1:C:515:PHE:HE1	1.82	0.44
1:B:717:ASN:OD1	1:B:718:PHE:N	2.49	0.44
1:C:316:SER:H	1:C:595:VAL:HG22	1.82	0.44
1:C:203:ILE:HG22	1:C:226:LEU:HD23	1.99	0.44
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.99	0.44
1:A:642:VAL:HG22	1:A:651:ILE:HG22	1.99	0.44
1:B:83:VAL:HG22	1:B:239:GLN:HE21	1.82	0.44
1:C:183:GLN:HG3	1:C:187:LYS:HG3	1.99	0.44
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.99	0.44
1:A:454:ARG:HD3	1:A:457:ARG:HD3	1.99	0.44
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:435:ALA:HB2	1:C:510:VAL:HG12	1.99	0.44
1:A:102:ARG:NH1	1:A:121:ASN:O	2.47	0.44
1:B:394:ASN:OD1	1:B:394:ASN:N	2.50	0.44
1:B:972:ALA:HB2	1:B:996:LEU:HD21	1.99	0.44
1:B:986:PRO:HD2	1:B:987:PRO:HD3	1.99	0.44
1:A:574:ASP:O	1:A:587:ILE:N	2.36	0.44
1:A:1028:LYS:HE2	1:A:1028:LYS:HB2	1.85	0.44
1:A:102:ARG:HA	1:A:102:ARG:HD3	1.86	0.44
1:A:753:LEU:HD12	1:A:759:PHE:HZ	1.82	0.44
1:B:1120:THR:OG1	1:B:1121:PHE:N	2.51	0.44
1:A:729:VAL:HG13	1:A:1059:GLY:HA2	1.99	0.44
1:A:733:LYS:HE3	1:A:771:ALA:HB1	1.98	0.44
1:A:773:GLU:HA	1:A:776:LYS:HE3	1.99	0.44
1:A:914:ASN:OD1	1:A:914:ASN:N	2.49	0.44
1:B:697:MET:HE2	1:B:697:MET:HB2	1.85	0.44
1:B:1086:LYS:HA	1:B:1125:ASN:HA	1.99	0.44
1:A:701:VAL:HG13	1:B:787:GLN:HG2	1.99	0.44
1:C:884:SER:OG	1:C:894:LEU:O	2.34	0.44
1:A:393:THR:HA	1:A:522:ALA:HA	1.98	0.44
1:A:58:PHE:HD2	1:A:290:ASP:HB2	1.82	0.44
1:C:989:ALA:O	1:C:993:ILE:HG12	2.17	0.44
1:A:822:LEU:HD11	1:A:1061:VAL:HG21	2.00	0.44
1:A:1094:VAL:HG11	1:A:1107:ARG:HH21	1.82	0.44
1:A:106:PHE:HB2	1:A:117:LEU:HD12	1.99	0.44
1:A:1033:VAL:HG21	1:A:1053:PRO:HG3	1.99	0.44
1:C:42:VAL:HG13	1:C:44:ARG:HH22	1.82	0.44
1:C:403:ARG:HE	1:C:406:GLU:CD	2.25	0.44
1:A:564:GLN:N	1:B:41:LYS:HZ2	2.11	0.44
1:C:454:ARG:NH2	1:C:469:SER:O	2.46	0.44
1:A:774:GLN:HE22	1:A:1018:ILE:HG21	1.82	0.44
1:A:864:LEU:O	1:C:669:GLY:N	2.50	0.44
1:B:310:LYS:HG3	1:B:600:PRO:HA	2.00	0.44
1:A:295:PRO:O	1:A:299:THR:HG23	2.17	0.44
1:A:773:GLU:OE2	1:A:1019:ARG:NH1	2.44	0.44
1:A:887:THR:HG21	1:A:894:LEU:HB2	1.99	0.44
1:A:978:ASN:HA	1:A:981:LEU:HG	2.00	0.44
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.99	0.44
1:A:129:LYS:HE2	1:A:129:LYS:HB2	1.80	0.44
1:A:886:TRP:HB3	1:A:1035:GLY:HA2	2.00	0.44
1:C:905:ARG:NH1	1:C:1036:GLN:HB2	2.33	0.44
1:B:402:ILE:HD12	1:B:403:ARG:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.99	0.44
1:C:612:TYR:HD1	1:C:620:VAL:HG22	1.82	0.44
1:A:102:ARG:HE	1:A:246:ILE:HD11	1.82	0.44
1:B:212:LEU:HD13	1:B:217:PRO:HG3	2.00	0.44
1:B:722:VAL:HG22	1:B:930:ALA:HB1	1.99	0.44
1:B:1019:ARG:HD2	1:B:1019:ARG:HA	1.69	0.44
1:B:777:ASN:HB3	1:B:1019:ARG:NH2	2.33	0.44
1:C:191:GLU:N	1:C:191:GLU:OE1	2.51	0.44
1:C:642:VAL:HG22	1:C:651:ILE:HG22	1.99	0.44
1:A:43:PHE:HB3	1:C:565:PHE:O	2.17	0.44
1:A:888:PHE:HE2	1:A:1034:LEU:HG	1.83	0.44
1:B:118:LEU:HD21	1:B:135:PHE:HE2	1.81	0.44
1:B:87:ASN:OD1	1:B:87:ASN:N	2.42	0.44
1:B:111:ASP:OD1	1:B:113:LYS:NZ	2.48	0.44
1:A:813:SER:OG	1:A:868:GLU:OE2	2.29	0.44
1:B:611:LEU:HD13	1:B:650:LEU:HD22	1.99	0.44
1:A:717:ASN:OD1	1:A:718:PHE:N	2.50	0.44
1:A:825:LYS:HE2	1:A:825:LYS:HB2	1.87	0.44
1:B:1029:MET:HE2	1:B:1033:VAL:HG21	1.99	0.44
1:C:214:ARG:HD2	1:C:215:GLY:N	2.31	0.44
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.99	0.44
1:A:787:GLN:HG2	1:C:701:VAL:HG13	2.00	0.44
1:B:552:LEU:HD22	1:B:587:ILE:HD13	2.00	0.44
1:B:390:LEU:HD12	1:B:391:CYS:H	1.83	0.44
1:C:106:PHE:O	1:C:117:LEU:N	2.41	0.44
1:C:34:ARG:NH2	1:C:221:SER:H	2.14	0.44
1:A:229:LEU:HG	1:A:231:ILE:HG23	2.00	0.44
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.73	0.44
1:B:1086:LYS:HE3	1:B:1122:VAL:HG11	1.99	0.44
1:C:523:THR:HG23	1:C:524:VAL:HG13	1.99	0.44
1:B:715:PRO:HD3	1:C:894:LEU:HD21	2.00	0.44
1:C:332:ILE:HG12	1:C:524:VAL:HG21	1.99	0.44
1:B:287:ASP:OD1	1:B:288:ALA:N	2.50	0.44
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.42	0.44
1:C:22:THR:O	1:C:78:ARG:NH1	2.50	0.44
1:A:212:LEU:HD22	1:A:217:PRO:HD3	2.00	0.44
1:B:1086:LYS:HD3	1:B:1122:VAL:HG11	1.98	0.44
1:A:787:GLN:HG2	1:C:701:VAL:HG13	1.99	0.44
1:B:192:PHE:HD1	1:B:203:ILE:HD11	1.82	0.44
1:C:330:PRO:HG3	1:C:579:PRO:HB2	2.00	0.44
1:C:360:ASN:OD1	1:C:523:THR:OG1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:877:LEU:O	1:B:881:THR:HG23	2.18	0.44
1:A:195:LYS:HD2	1:A:197:ILE:HD11	1.99	0.44
1:B:298:GLU:HB3	1:B:315:THR:HG21	1.99	0.44
1:C:916:LEU:HD23	1:C:917:TYR:CD2	2.53	0.44
1:B:33:THR:OG1	1:B:34:ARG:NH1	2.51	0.44
1:A:1040:VAL:HG21	1:B:1035:GLY:HA3	1.99	0.44
1:B:220:PHE:HE2	1:B:285:ILE:HG22	1.82	0.44
1:B:296:LEU:O	1:B:299:THR:OG1	2.32	0.44
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.82	0.44
1:C:276:LEU:HD21	1:C:304:LYS:HA	1.99	0.44
1:B:984:LEU:HB2	1:B:989:ALA:HB2	1.98	0.44
1:C:560:LEU:HD12	1:C:561:PRO:HD2	1.99	0.44
1:A:697:MET:HE2	1:A:697:MET:HB2	1.80	0.44
1:B:394:ASN:HB3	1:B:396:TYR:HE2	1.82	0.44
1:C:759:PHE:HA	1:C:762:GLN:HE21	1.83	0.44
1:C:330:PRO:HD3	1:C:579:PRO:HB2	2.00	0.44
1:C:406:GLU:N	1:C:406:GLU:OE2	2.50	0.44
1:A:287:ASP:OD1	1:A:288:ALA:N	2.51	0.44
1:A:719:THR:HG23	1:A:1068:VAL:HB	1.99	0.44
1:B:465:GLU:OE1	1:B:466:ARG:N	2.49	0.44
1:C:442:ASP:OD2	1:C:509:ARG:NE	2.44	0.44
1:A:751:ASN:HA	1:A:754:LEU:HG	1.99	0.44
1:B:100:ILE:HA	1:B:246:ILE:HD12	2.00	0.44
1:B:351:TYR:HE2	1:B:452:LEU:HB2	1.81	0.44
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	1.99	0.44
1:B:483:VAL:HG12	1:B:484:LYS:HG3	1.99	0.44
1:C:523:THR:HG23	1:C:524:VAL:HG13	1.98	0.44
1:A:486:PHE:O	1:A:487:ASN:ND2	2.51	0.44
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.43	0.44
1:C:1050:MET:SD	1:C:1052:PHE:HE1	2.40	0.44
1:B:350:VAL:HG21	1:B:418:ILE:HD11	1.99	0.44
1:B:731:MET:H	1:B:774:GLN:HE22	1.65	0.44
1:A:976:VAL:HG22	1:C:572:THR:HG22	1.98	0.44
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.17	0.44
1:C:277:LEU:HD12	1:C:285:ILE:HD13	1.99	0.44
1:B:751:ASN:HA	1:B:754:LEU:HG	1.99	0.44
1:C:762:GLN:HA	1:C:765:ARG:HG2	2.00	0.44
1:B:1050:MET:HE2	1:B:1050:MET:HB2	1.96	0.44
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.42	0.44
1:A:983:ARG:HH21	1:C:517:LEU:HD11	1.82	0.44
1:A:34:ARG:NH2	1:A:221:SER:H	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1054:GLN:HB2	1:C:1061:VAL:HG13	2.00	0.44
1:A:398:ASP:HB2	1:A:512:VAL:HG13	2.00	0.44
1:A:1104:VAL:HG23	1:A:1115:ILE:HD13	1.99	0.44
1:A:756:TYR:HB3	1:A:759:PHE:HD2	1.83	0.44
1:B:989:ALA:O	1:B:993:ILE:HG12	2.17	0.44
1:C:1115:ILE:HG22	1:C:1137:VAL:HG23	1.98	0.44
1:B:92:PHE:HD1	1:B:93:ALA:N	2.16	0.44
1:C:434:ILE:HB	1:C:511:VAL:HG13	1.99	0.44
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.98	0.44
1:A:850:ILE:HG23	1:A:860:VAL:HG11	2.00	0.44
1:A:949:GLN:HA	1:A:952:VAL:HG12	1.99	0.44
1:C:906:PHE:HA	1:C:909:ILE:HG12	2.00	0.44
1:C:971:GLY:O	1:C:995:ARG:NH1	2.51	0.44
1:B:38:TYR:O	1:B:204:TYR:OH	2.25	0.44
1:C:537:LYS:HD3	1:C:538:CYS:N	2.32	0.44
1:B:781:VAL:HG13	1:B:782:PHE:HD1	1.82	0.44
1:A:890:ALA:HA	1:C:1046:GLY:HA2	1.99	0.44
1:C:785:VAL:HG12	1:C:787:GLN:H	1.82	0.44
1:A:547:THR:O	1:B:978:ASN:ND2	2.51	0.44
1:C:39:PRO:HG3	1:C:51:THR:HG21	1.98	0.44
1:C:402:ILE:HD11	1:C:418:ILE:HG13	1.99	0.44
1:B:468:ILE:HG12	1:C:115:GLN:HE22	1.83	0.44
1:A:976:VAL:HG13	1:A:979:ASP:HB3	2.00	0.44
1:C:914:ASN:OD1	1:C:914:ASN:N	2.49	0.44
1:A:291:CYS:HB2	1:A:301:CYS:HB2	1.79	0.44
1:B:91:TYR:OH	1:B:191:GLU:OE1	2.33	0.44
1:B:431:GLY:HA2	1:B:515:PHE:CZ	2.53	0.44
1:C:106:PHE:HB2	1:C:117:LEU:HD12	1.99	0.44
1:A:658:ASN:C	1:A:658:ASN:HD22	2.26	0.44
1:B:557:LYS:HD2	1:B:557:LYS:HA	1.68	0.44
1:C:777:ASN:O	1:C:781:VAL:HG12	2.17	0.44
1:C:960:ASN:HA	1:C:963:VAL:HG22	1.98	0.44
1:B:650:LEU:HD21	1:B:678:ILE:HD11	1.99	0.44
1:C:971:GLY:HA3	1:C:995:ARG:HH12	1.82	0.44
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.34	0.44
1:A:1107:ARG:HE	1:A:1107:ARG:HB3	1.60	0.44
1:A:954:GLN:OE1	1:A:1014:ARG:NE	2.49	0.44
1:B:1019:ARG:HG3	1:B:1019:ARG:HH11	1.83	0.44
1:C:532:ASN:OD1	1:C:533:LEU:N	2.50	0.44
1:A:406:GLU:N	1:A:406:GLU:OE2	2.51	0.44
1:C:33:THR:OG1	1:C:219:GLY:O	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:742:ILE:HG13	1:A:997:ILE:HG22	1.99	0.44
1:B:762:GLN:HB3	1:B:765:ARG:HH21	1.82	0.44
1:B:767:LEU:HD13	1:B:770:ILE:HD11	2.00	0.44
1:C:912:THR:OG1	1:C:914:ASN:OD1	2.35	0.44
1:A:796:ASP:OD1	1:A:796:ASP:N	2.45	0.44
1:B:287:ASP:OD1	1:B:288:ALA:N	2.50	0.44
1:B:762:GLN:HA	1:B:765:ARG:HE	1.82	0.44
1:B:915:VAL:HG21	1:B:1108:ASN:HD22	1.82	0.44
1:B:1010:GLN:O	1:B:1014:ARG:HG3	2.18	0.44
1:B:1086:LYS:HE3	1:B:1122:VAL:HG11	2.00	0.44
1:C:882:ILE:HD12	1:C:882:ILE:HA	1.85	0.44
1:C:390:LEU:HD12	1:C:391:CYS:H	1.82	0.44
1:B:517:LEU:HD11	1:C:983:ARG:HD2	1.98	0.44
1:C:287:ASP:OD1	1:C:288:ALA:N	2.50	0.44
1:B:717:ASN:OD1	1:B:718:PHE:N	2.49	0.44
1:C:727:LEU:HD11	1:C:1024:LEU:HG	2.00	0.44
1:A:787:GLN:HG2	1:C:701:VAL:HG13	2.00	0.44
1:A:826:VAL:HG23	1:A:945:LEU:HD12	1.99	0.44
1:A:781:VAL:HG13	1:A:782:PHE:HD1	1.82	0.44
1:B:574:ASP:OD1	1:B:574:ASP:N	2.50	0.44
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	2.00	0.44
1:B:985:ASP:OD2	1:B:985:ASP:N	2.47	0.44
1:C:738:CYS:O	1:C:742:ILE:HB	2.17	0.44
1:A:756:TYR:HE2	1:A:997:ILE:HD11	1.83	0.44
1:B:722:VAL:HG22	1:B:930:ALA:HB1	2.00	0.44
1:B:877:LEU:O	1:B:881:THR:HG23	2.18	0.44
1:C:290:ASP:HB3	1:C:293:LEU:HB2	1.99	0.44
1:C:513:LEU:HD12	1:C:513:LEU:HA	1.86	0.44
1:C:989:ALA:O	1:C:993:ILE:HG12	2.18	0.44
1:A:611:LEU:HD13	1:A:650:LEU:HD13	2.00	0.44
1:C:566:GLY:N	1:C:575:ALA:O	2.36	0.44
1:A:104:TRP:H	1:A:119:ILE:HB	1.82	0.44
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	2.00	0.44
1:B:762:GLN:HA	1:B:765:ARG:HE	1.83	0.44
1:C:34:ARG:NH2	1:C:221:SER:H	2.16	0.44
1:A:1102:TRP:HD1	1:A:1135:ASN:HD22	1.66	0.44
1:C:767:LEU:HA	1:C:770:ILE:HG22	2.00	0.44
1:A:287:ASP:OD1	1:A:288:ALA:N	2.51	0.44
1:A:642:VAL:HG22	1:A:651:ILE:HG22	2.00	0.44
1:A:1105:THR:HG21	1:A:1110:TYR:HA	2.00	0.44
1:B:506:GLN:HG3	1:B:507:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:972:ALA:HB2	1:B:996:LEU:HD21	2.00	0.44
1:B:369:TYR:CZ	1:B:384:PRO:HB2	2.53	0.44
1:C:407:VAL:O	1:C:410:ILE:HG22	2.17	0.44
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.99	0.44
1:B:552:LEU:HD12	1:B:585:LEU:HD22	1.99	0.44
1:C:277:LEU:HD12	1:C:285:ILE:HG12	1.99	0.44
1:A:199:GLY:HA2	1:A:232:GLY:HA2	1.99	0.44
1:A:711:SER:OG	1:B:895:GLN:OE1	2.34	0.44
1:B:877:LEU:O	1:B:881:THR:HG23	2.17	0.44
1:A:195:LYS:HG3	1:A:197:ILE:HG23	1.98	0.44
1:C:28:TYR:HB3	1:C:61:ASN:HB3	1.98	0.44
1:A:712:ILE:HG21	1:A:1096:VAL:HG12	1.99	0.44
1:C:712:ILE:HD12	1:C:712:ILE:HA	1.71	0.44
1:C:877:LEU:O	1:C:881:THR:HG23	2.18	0.44
1:B:409:GLN:HA	1:B:414:GLN:HG2	2.00	0.44
1:B:731:MET:H	1:B:774:GLN:NE2	2.16	0.44
1:C:276:LEU:HD22	1:C:306:PHE:HE1	1.82	0.44
1:B:271:GLN:HB2	1:B:273:ARG:HH22	1.82	0.44
1:B:408:ARG:NH1	1:C:408:ARG:HA	2.33	0.44
1:B:587:ILE:HD12	1:B:587:ILE:HA	1.76	0.44
1:C:204:TYR:HA	1:C:225:PRO:HA	1.99	0.44
1:A:289:VAL:HG11	1:A:300:LYS:HD2	2.00	0.44
1:A:737:ASP:OD1	1:A:740:MET:HB3	2.17	0.44
1:C:105:ILE:HG23	1:C:239:GLN:HB2	1.99	0.44
1:A:1046:GLY:HA2	1:B:890:ALA:HA	2.00	0.44
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.47	0.44
1:C:229:LEU:HD22	1:C:231:ILE:HG22	2.00	0.44
1:C:1086:LYS:HE3	1:C:1122:VAL:HG11	1.99	0.44
1:A:39:PRO:HG3	1:A:51:THR:HG21	1.99	0.44
1:A:222:ALA:HB2	1:A:285:ILE:HB	2.00	0.44
1:B:105:ILE:HD11	1:B:241:LEU:HD21	1.98	0.44
1:B:390:LEU:HD12	1:B:391:CYS:H	1.82	0.44
1:A:915:VAL:HG12	1:A:1109:PHE:HD2	1.83	0.44
1:A:1000:ARG:O	1:A:1003:SER:OG	2.27	0.44
1:B:722:VAL:HG22	1:B:930:ALA:HB1	2.00	0.44
1:B:796:ASP:OD1	1:B:796:ASP:N	2.51	0.44
1:A:611:LEU:HD22	1:A:678:ILE:HD11	2.00	0.44
1:A:183:GLN:HG3	1:A:187:LYS:HG3	1.99	0.44
1:C:738:CYS:HB3	1:C:760:CYS:HB2	1.87	0.44
1:A:393:THR:HA	1:A:522:ALA:HA	1.99	0.44
1:A:900:MET:HE1	1:C:1079:PRO:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:735:SER:HB3	1:B:861:LEU:HD21	2.00	0.44
1:A:287:ASP:OD1	1:A:288:ALA:N	2.50	0.44
1:A:406:GLU:N	1:A:406:GLU:OE1	2.51	0.44
1:A:890:ALA:HA	1:C:1046:GLY:HA2	1.99	0.44
1:B:731:MET:H	1:B:774:GLN:NE2	2.16	0.44
1:B:574:ASP:OD1	1:B:574:ASP:N	2.48	0.44
1:B:785:VAL:HG12	1:B:787:GLN:H	1.82	0.44
1:B:884:SER:OG	1:B:887:THR:OG1	2.27	0.44
1:C:106:PHE:O	1:C:117:LEU:N	2.46	0.44
1:A:712:ILE:O	1:A:1075:PHE:N	2.38	0.44
1:C:290:ASP:HB3	1:C:293:LEU:HB2	1.99	0.44
1:C:299:THR:HG22	1:C:597:VAL:HG21	1.99	0.44
1:A:740:MET:HB2	1:A:740:MET:HE3	1.67	0.44
1:A:960:ASN:O	1:A:964:LYS:HB2	2.18	0.44
1:C:785:VAL:HG12	1:C:787:GLN:H	1.82	0.44
1:C:712:ILE:HD12	1:C:712:ILE:HA	1.79	0.44
1:C:1139:ASP:HB3	1:C:1142:GLN:HG2	2.00	0.44
1:A:598:ILE:HD11	1:A:678:ILE:HD13	1.99	0.44
1:A:1039:ARG:HH21	1:C:1039:ARG:HH11	1.65	0.44
1:A:1005:GLN:HE21	1:C:1006:THR:HG22	1.83	0.44
1:B:1046:GLY:HA2	1:C:890:ALA:HA	2.00	0.44
1:C:431:GLY:HA2	1:C:515:PHE:CE1	2.52	0.44
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.87	0.44
1:C:1045:LYS:HD3	1:C:1045:LYS:HA	1.73	0.44
1:B:781:VAL:HG13	1:B:782:PHE:HD1	1.83	0.44
1:C:598:ILE:HB	1:C:609:ALA:HB3	2.00	0.44
1:B:506:GLN:HG3	1:B:507:PRO:HD2	1.99	0.44
1:C:1107:ARG:H	1:C:1107:ARG:HG3	1.41	0.44
1:A:120:VAL:HB	1:A:127:VAL:HB	1.99	0.44
1:A:774:GLN:HE22	1:A:1018:ILE:HG21	1.82	0.44
1:B:997:ILE:O	1:B:1001:LEU:HB2	2.17	0.44
1:C:96:GLU:HG3	1:C:99:ASN:H	1.82	0.44
1:A:722:VAL:HG22	1:A:930:ALA:HB1	2.00	0.44
1:A:748:GLU:H	1:A:748:GLU:HG3	1.55	0.44
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.43	0.44
1:B:37:TYR:CZ	1:B:195:LYS:HE2	2.53	0.44
1:B:337:PRO:HD2	1:B:358:ILE:HG21	1.99	0.44
1:B:420:ASP:OD2	1:B:424:LYS:NZ	2.51	0.44
1:A:357:ARG:NH2	1:A:396:TYR:OH	2.51	0.44
1:A:409:GLN:HA	1:A:414:GLN:HG2	1.99	0.44
1:A:417:ASN:O	1:A:421:TYR:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:781:VAL:HG13	1:A:782:PHE:HD1	1.82	0.44
1:A:931:ILE:HA	1:A:934:ILE:HG22	2.00	0.44
1:C:287:ASP:OD2	1:C:288:ALA:N	2.50	0.44
1:C:358:ILE:HB	1:C:395:VAL:HG23	2.00	0.44
1:C:730:SER:OG	1:C:731:MET:N	2.51	0.44
1:A:58:PHE:CD2	1:A:290:ASP:HB2	2.53	0.44
1:B:393:THR:OG1	1:B:516:GLU:O	2.36	0.44
1:A:642:VAL:HG22	1:A:651:ILE:HG22	2.00	0.44
1:B:785:VAL:HG12	1:B:787:GLN:H	1.82	0.44
1:B:902:MET:HE1	1:B:1050:MET:HE2	1.98	0.44
1:A:566:GLY:HA2	1:B:43:PHE:HB3	1.99	0.44
1:A:973:ILE:HG21	1:A:983:ARG:NH1	2.33	0.44
1:A:984:LEU:HB2	1:A:989:ALA:HB2	2.00	0.44
1:B:314:GLN:HE22	1:B:594:GLY:HA3	1.82	0.44
1:A:58:PHE:HD2	1:A:290:ASP:HB2	1.83	0.44
1:C:594:GLY:H	1:C:613:GLN:NE2	2.16	0.44
1:C:763:LEU:HB2	1:C:1008:VAL:HG11	2.00	0.44
1:A:985:ASP:OD1	1:A:987:PRO:HD2	2.17	0.44
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	2.00	0.44
1:C:131:CYS:HB2	1:C:133:PHE:CE1	2.53	0.44
1:A:357:ARG:HD2	1:A:359:SER:OG	2.17	0.44
1:B:677:PRO:HB3	1:C:864:LEU:HD11	2.00	0.44
1:C:409:GLN:HA	1:C:414:GLN:HE21	1.82	0.44
1:C:914:ASN:ND2	1:C:1106:GLN:OE1	2.45	0.44
1:A:33:THR:OG1	1:A:219:GLY:O	2.35	0.44
1:A:40:ASP:OD1	1:A:40:ASP:N	2.51	0.44
1:B:951:VAL:HA	1:B:954:GLN:HG3	1.98	0.44
1:C:483:VAL:HG12	1:C:484:LYS:HG3	1.99	0.44
1:C:688:THR:HA	1:C:690:GLN:HG2	2.00	0.44
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.24	0.44
1:B:906:PHE:CD2	1:B:916:LEU:HB2	2.53	0.44
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	2.00	0.44
1:A:395:VAL:HG12	1:A:515:PHE:HB3	1.99	0.44
1:C:1086:LYS:HE3	1:C:1122:VAL:HG11	1.98	0.44
1:B:195:LYS:HD2	1:B:195:LYS:HA	1.70	0.44
1:B:884:SER:HG	1:B:887:THR:HG1	1.61	0.44
1:A:402:ILE:HD12	1:A:403:ARG:H	1.83	0.44
1:A:701:VAL:HG13	1:B:787:GLN:HG2	1.99	0.44
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.39	0.44
1:A:189:LEU:HD13	1:A:210:ILE:HD13	2.00	0.44
1:A:730:SER:OG	1:A:731:MET:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:912:THR:O	1:C:915:VAL:HG22	2.18	0.44
1:A:319:ARG:NH1	1:B:744:GLY:HA3	2.33	0.43
1:A:436:TRP:HE1	1:A:509:ARG:HH21	1.65	0.43
1:A:822:LEU:HD11	1:A:1061:VAL:HG11	2.00	0.43
1:A:902:MET:HE2	1:A:902:MET:HB2	1.85	0.43
1:C:18:PHE:HB2	1:C:21:ARG:HB2	2.00	0.43
1:B:37:TYR:HB2	1:B:204:TYR:CE2	2.53	0.43
1:B:569:ILE:HG22	1:C:47:VAL:HB	2.00	0.43
1:C:334:ASN:OD1	1:C:335:LEU:N	2.43	0.43
1:A:774:GLN:OE1	1:A:777:ASN:ND2	2.51	0.43
1:C:220:PHE:HE2	1:C:285:ILE:HG22	1.83	0.43
1:C:193:VAL:HG13	1:C:223:LEU:HD21	1.99	0.43
1:C:737:ASP:OD1	1:C:740:MET:HB3	2.17	0.43
1:C:964:LYS:O	1:C:967:SER:OG	2.32	0.43
1:B:1010:GLN:HE22	1:B:1014:ARG:HD2	1.83	0.43
1:C:785:VAL:HG12	1:C:787:GLN:H	1.82	0.43
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.67	0.43
1:C:909:ILE:HA	1:C:1038:LYS:NZ	2.32	0.43
1:A:395:VAL:HG22	1:A:515:PHE:HB3	2.00	0.43
1:B:563:GLN:N	1:B:563:GLN:OE1	2.51	0.43
1:C:358:ILE:HB	1:C:395:VAL:HG23	2.00	0.43
1:A:1084:ASP:OD1	1:A:1084:ASP:N	2.41	0.43
1:B:37:TYR:OH	1:B:53:ASP:OD2	2.35	0.43
1:A:517:LEU:HD12	1:A:518:LEU:HB2	1.99	0.43
1:C:1049:LEU:HD11	1:C:1067:TYR:HB2	1.99	0.43
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.99	0.43
1:A:788:ILE:HG23	1:A:876:ALA:HB2	1.99	0.43
1:B:129:LYS:NZ	1:B:166:CYS:SG	2.87	0.43
1:C:22:THR:O	1:C:78:ARG:NH1	2.51	0.43
1:C:33:THR:HG22	1:C:58:PHE:HE1	1.83	0.43
1:C:302:THR:O	1:C:304:LYS:NZ	2.51	0.43
1:A:931:ILE:HA	1:A:934:ILE:HG22	2.00	0.43
1:B:332:ILE:HG13	1:B:362:VAL:HG22	1.99	0.43
1:B:398:ASP:HB2	1:B:512:VAL:HG13	2.00	0.43
1:B:576:VAL:HG12	1:B:587:ILE:HD11	1.99	0.43
1:B:906:PHE:HD2	1:B:916:LEU:HB2	1.83	0.43
1:C:365:TYR:HD1	1:C:387:LEU:HB3	1.83	0.43
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.82	0.43
1:A:61:ASN:C	1:A:61:ASN:ND2	2.74	0.43
1:C:358:ILE:HG22	1:C:524:VAL:HG11	1.99	0.43
1:C:394:ASN:N	1:C:394:ASN:OD1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:VAL:HG12	1:C:484:LYS:HG3	2.00	0.43
1:C:523:THR:HG23	1:C:524:VAL:HG13	1.99	0.43
1:A:80:ALA:O	1:A:245:HIS:NE2	2.45	0.43
1:C:226:LEU:HG	1:C:227:VAL:HG13	2.00	0.43
1:C:871:ALA:HA	1:C:874:THR:HG22	1.98	0.43
1:B:191:GLU:HB2	1:B:223:LEU:HD21	1.99	0.43
1:B:222:ALA:HB2	1:B:285:ILE:HB	2.00	0.43
1:B:1033:VAL:HG21	1:B:1053:PRO:HG3	1.98	0.43
1:C:785:VAL:HG12	1:C:787:GLN:H	1.82	0.43
1:B:767:LEU:HA	1:B:770:ILE:HG22	1.99	0.43
1:B:864:LEU:HG	1:B:865:LEU:HD23	2.00	0.43
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.44	0.43
1:A:1010:GLN:HG3	1:A:1014:ARG:NH1	2.32	0.43
1:A:896:ILE:HD12	1:A:897:PRO:HD2	2.00	0.43
1:B:884:SER:OG	1:B:887:THR:OG1	2.29	0.43
1:B:997:ILE:O	1:B:1001:LEU:HB2	2.17	0.43
1:C:394:ASN:N	1:C:394:ASN:OD1	2.51	0.43
1:C:722:VAL:HG22	1:C:930:ALA:HB1	1.99	0.43
1:B:574:ASP:OD1	1:B:574:ASP:N	2.50	0.43
1:C:105:ILE:HD11	1:C:110:LEU:HD22	2.00	0.43
1:C:330:PRO:HD3	1:C:579:PRO:HB2	2.00	0.43
1:A:406:GLU:N	1:A:406:GLU:OE1	2.51	0.43
1:A:562:PHE:O	1:B:41:LYS:NZ	2.40	0.43
1:B:431:GLY:HA2	1:B:515:PHE:CE2	2.54	0.43
1:C:126:VAL:HB	1:C:172:SER:HB3	2.00	0.43
1:B:743:CYS:HB3	1:B:977:LEU:HD21	2.01	0.43
1:B:769:GLY:HA2	1:B:772:VAL:HG12	2.01	0.43
1:C:596:SER:HB2	1:C:611:LEU:HD23	1.99	0.43
1:A:393:THR:OG1	1:A:516:GLU:O	2.33	0.43
1:B:382:VAL:HG11	1:B:515:PHE:HZ	1.83	0.43
1:C:989:ALA:O	1:C:993:ILE:HG12	2.18	0.43
1:B:392:PHE:CD1	1:B:517:LEU:HD13	2.53	0.43
1:C:99:ASN:O	1:C:102:ARG:NH1	2.50	0.43
1:A:425:LEU:HD22	1:A:426:PRO:HD2	1.99	0.43
1:A:882:ILE:HD12	1:A:882:ILE:HA	1.78	0.43
1:B:960:ASN:O	1:B:964:LYS:HB2	2.18	0.43
1:C:97:LYS:HD2	1:C:97:LYS:HA	1.84	0.43
1:B:989:ALA:O	1:B:993:ILE:HG12	2.18	0.43
1:A:332:ILE:HG13	1:A:362:VAL:HG22	1.99	0.43
1:B:728:PRO:HD3	1:B:947:LYS:HG3	2.00	0.43
1:B:731:MET:H	1:B:774:GLN:NE2	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:PHE:HE2	1:A:265:TYR:HB2	1.83	0.43
1:A:287:ASP:OD2	1:A:288:ALA:N	2.51	0.43
1:A:934:ILE:HG13	1:A:938:LEU:HD23	1.99	0.43
1:B:562:PHE:HE1	1:C:41:LYS:HE3	1.83	0.43
1:B:735:SER:HB2	1:B:861:LEU:HD21	1.99	0.43
1:C:777:ASN:HA	1:C:780:GLU:HG3	1.99	0.43
1:B:513:LEU:HG	1:B:515:PHE:CE1	2.54	0.43
1:B:866:THR:O	1:B:870:ILE:HG12	2.19	0.43
1:C:295:PRO:HB3	1:C:595:VAL:HG22	2.01	0.43
1:B:183:GLN:HG3	1:B:187:LYS:HG3	2.00	0.43
1:B:1002:GLN:HA	1:B:1005:GLN:NE2	2.33	0.43
1:C:871:ALA:HA	1:C:874:THR:HG22	2.00	0.43
1:C:905:ARG:NH1	1:C:1036:GLN:HB2	2.34	0.43
1:A:503:VAL:HA	1:A:506:GLN:HG3	1.99	0.43
1:A:650:LEU:HD12	1:A:650:LEU:HA	1.90	0.43
1:A:764:ASN:O	1:A:768:THR:HG23	2.18	0.43
1:B:130:VAL:HB	1:B:168:PHE:HB2	2.00	0.43
1:B:517:LEU:HD12	1:B:518:LEU:HB2	1.98	0.43
1:C:796:ASP:OD1	1:C:796:ASP:N	2.49	0.43
1:A:61:ASN:C	1:A:61:ASN:ND2	2.74	0.43
1:B:287:ASP:OD1	1:B:288:ALA:N	2.50	0.43
1:C:483:VAL:HG12	1:C:484:LYS:HG3	2.00	0.43
1:C:962:LEU:HD12	1:C:962:LEU:HA	1.87	0.43
1:A:222:ALA:HB2	1:A:285:ILE:HB	1.99	0.43
1:A:326:ILE:HD11	1:A:534:VAL:HG22	2.00	0.43
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.83	0.43
1:B:563:GLN:N	1:B:563:GLN:OE1	2.51	0.43
1:B:735:SER:HB2	1:B:861:LEU:HD21	2.01	0.43
1:A:310:LYS:HG3	1:A:600:PRO:HA	1.99	0.43
1:C:472:ILE:HG23	1:C:491:PRO:HG2	1.99	0.43
1:B:677:PRO:HB3	1:C:864:LEU:HD21	2.00	0.43
1:B:707:TYR:CD2	1:C:792:PRO:HG3	2.51	0.43
1:C:617:CYS:N	1:C:649:CYS:SG	2.91	0.43
1:C:390:LEU:HD12	1:C:391:CYS:H	1.83	0.43
1:A:426:PRO:HD3	1:A:463:PRO:HB3	2.00	0.43
1:A:745:ASP:OD2	1:C:549:THR:OG1	2.36	0.43
1:B:738:CYS:HB2	1:B:760:CYS:HB2	1.51	0.43
1:C:730:SER:OG	1:C:731:MET:N	2.51	0.43
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.00	0.43
1:A:858:LEU:HD13	1:A:959:LEU:HD12	2.00	0.43
1:B:407:VAL:O	1:B:410:ILE:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:986:PRO:HD2	1:B:987:PRO:HD3	2.00	0.43
1:A:115:GLN:HE22	1:C:468:ILE:HG12	1.82	0.43
1:B:731:MET:HG3	1:B:1018:ILE:HG13	2.00	0.43
1:B:93:ALA:HB3	1:B:266:TYR:HD2	1.82	0.43
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.89	0.43
1:A:298:GLU:HB3	1:A:315:THR:HG21	2.00	0.43
1:A:611:LEU:HD22	1:A:678:ILE:HD11	2.00	0.43
1:B:483:VAL:HG12	1:B:484:LYS:HG3	2.00	0.43
1:B:569:ILE:HA	1:C:47:VAL:HG12	2.00	0.43
1:C:383:SER:O	1:C:387:LEU:CB	2.67	0.43
1:C:424:LYS:HA	1:C:424:LYS:HD3	1.87	0.43
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.99	0.43
1:C:733:LYS:HD3	1:C:861:LEU:HB2	2.00	0.43
1:C:916:LEU:HD22	1:C:917:TYR:CD1	2.53	0.43
1:A:737:ASP:OD2	1:C:317:ASN:ND2	2.50	0.43
1:C:84:LEU:HD11	1:C:267:VAL:HG11	2.00	0.43
1:A:129:LYS:HG2	1:A:133:PHE:HZ	1.82	0.43
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.35	0.43
1:C:1004:LEU:HD12	1:C:1004:LEU:HA	1.83	0.43
1:B:825:LYS:HE3	1:B:825:LYS:HB2	1.81	0.43
1:B:908:GLY:O	1:B:1038:LYS:NZ	2.50	0.43
1:B:407:VAL:O	1:B:410:ILE:HG22	2.19	0.43
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.90	0.43
1:B:912:THR:O	1:B:915:VAL:HG12	2.18	0.43
1:C:442:ASP:OD2	1:C:509:ARG:NE	2.46	0.43
1:A:483:VAL:HG12	1:A:484:LYS:HG3	2.00	0.43
1:A:498:GLN:HB3	1:A:501:TYR:HE2	1.83	0.43
1:A:701:VAL:HG13	1:B:787:GLN:HG2	2.00	0.43
1:B:785:VAL:HG12	1:B:787:GLN:H	1.83	0.43
1:C:287:ASP:OD2	1:C:288:ALA:N	2.51	0.43
1:C:994:ASP:O	1:C:998:THR:HG23	2.18	0.43
1:C:1086:LYS:HE3	1:C:1122:VAL:HG11	1.99	0.43
1:A:950:ASP:N	1:A:950:ASP:OD1	2.49	0.43
1:A:887:THR:HB	1:A:894:LEU:HD23	2.00	0.43
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	2.00	0.43
1:B:796:ASP:OD1	1:B:796:ASP:N	2.50	0.43
1:B:396:TYR:CZ	1:C:230:PRO:HG3	2.54	0.43
1:B:878:LEU:O	1:B:882:ILE:HG12	2.18	0.43
1:A:290:ASP:OD2	1:A:290:ASP:N	2.50	0.43
1:A:985:ASP:O	1:A:989:ALA:HB2	2.18	0.43
1:C:951:VAL:HA	1:C:954:GLN:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1019:ARG:HA	1:A:1019:ARG:HH11	1.82	0.43
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.87	0.43
1:B:713:ALA:HB2	1:C:895:GLN:CD	2.44	0.43
1:B:1038:LYS:HD3	1:B:1038:LYS:HA	1.71	0.43
1:C:733:LYS:HD3	1:C:861:LEU:HB2	2.00	0.43
1:C:738:CYS:HB2	1:C:760:CYS:HB2	1.46	0.43
1:A:1094:VAL:HG23	1:A:1096:VAL:HG13	2.01	0.43
1:B:384:PRO:HA	1:B:387:LEU:HD23	2.01	0.43
1:B:777:ASN:HD21	1:B:1019:ARG:HD2	1.83	0.43
1:C:503:VAL:HA	1:C:506:GLN:HG3	2.00	0.43
1:A:442:ASP:OD2	1:A:509:ARG:NE	2.47	0.43
1:B:574:ASP:OD1	1:B:574:ASP:N	2.52	0.43
1:C:287:ASP:OD2	1:C:288:ALA:N	2.51	0.43
1:A:731:MET:HG3	1:A:1018:ILE:HG13	2.00	0.43
1:B:58:PHE:HD2	1:B:290:ASP:HB2	1.83	0.43
1:A:731:MET:H	1:A:774:GLN:NE2	2.15	0.43
1:B:983:ARG:HG3	1:B:984:LEU:HD23	2.00	0.43
1:C:642:VAL:HG22	1:C:651:ILE:HG22	2.00	0.43
1:A:726:ILE:HD12	1:A:1061:VAL:HG12	2.00	0.43
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.99	0.43
1:B:1096:VAL:HG13	1:B:1103:PHE:HB2	2.01	0.43
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.41	0.43
1:A:401:VAL:HG22	1:A:509:ARG:HG2	2.00	0.43
1:B:989:ALA:O	1:B:993:ILE:HG12	2.18	0.43
1:A:1083:HIS:CD2	1:A:1137:VAL:H	2.36	0.43
1:B:533:LEU:HD21	1:B:585:LEU:HD11	2.01	0.43
1:B:557:LYS:HE2	1:B:559:PHE:HE1	1.84	0.43
1:C:738:CYS:HB3	1:C:760:CYS:HB2	1.90	0.43
1:C:906:PHE:CD1	1:C:916:LEU:HB2	2.53	0.43
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.24	0.43
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.01	0.43
1:A:395:VAL:HG12	1:A:515:PHE:HB3	1.99	0.43
1:B:398:ASP:HB2	1:B:512:VAL:HG13	2.01	0.43
1:B:738:CYS:O	1:B:742:ILE:HB	2.19	0.43
1:A:369:TYR:OH	1:C:415:THR:OG1	2.17	0.43
1:A:730:SER:OG	1:A:731:MET:N	2.51	0.43
1:B:395:VAL:HG12	1:B:515:PHE:HB3	2.00	0.43
1:B:1017:GLU:OE1	1:C:1019:ARG:NH1	2.52	0.43
1:C:287:ASP:OD1	1:C:288:ALA:N	2.51	0.43
1:C:574:ASP:N	1:C:574:ASP:OD1	2.51	0.43
1:B:388:ASN:OD1	1:B:388:ASN:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:393:THR:HG21	1:B:518:LEU:HB2	2.00	0.43
1:B:781:VAL:HG13	1:B:782:PHE:HD2	1.83	0.43
1:A:1002:GLN:HA	1:A:1005:GLN:HG3	2.00	0.43
1:B:89:GLY:HA3	1:B:270:LEU:HD12	2.00	0.43
1:C:819:GLU:HA	1:C:822:LEU:HG	1.99	0.43
1:B:735:SER:HB2	1:B:861:LEU:HD21	2.00	0.43
1:A:565:PHE:O	1:B:43:PHE:HB3	2.19	0.43
1:B:231:ILE:HG13	1:B:233:ILE:HG12	1.98	0.43
1:C:914:ASN:OD1	1:C:914:ASN:N	2.52	0.43
1:C:950:ASP:O	1:C:954:GLN:NE2	2.50	0.43
1:A:334:ASN:ND2	1:A:360:ASN:O	2.42	0.43
1:C:337:PRO:HD2	1:C:358:ILE:HD12	2.00	0.43
1:A:334:ASN:ND2	1:A:360:ASN:O	2.44	0.43
1:A:408:ARG:HH12	1:A:409:GLN:HE21	1.65	0.43
1:A:785:VAL:HG12	1:A:787:GLN:H	1.83	0.43
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.84	0.43
1:C:193:VAL:HG22	1:C:204:TYR:HB2	2.00	0.43
1:C:1116:THR:OG1	1:C:1118:ASP:OD2	2.36	0.43
1:A:222:ALA:HB2	1:A:285:ILE:HB	1.99	0.43
1:B:52:GLN:HE22	1:B:273:ARG:N	2.17	0.43
1:B:751:ASN:HA	1:B:754:LEU:HG	2.01	0.43
1:B:973:ILE:HG21	1:B:983:ARG:HH12	1.83	0.43
1:B:1096:VAL:HG11	1:B:1105:THR:HG22	2.01	0.43
1:C:1086:LYS:HE3	1:C:1122:VAL:HG11	2.00	0.43
1:B:418:ILE:HD12	1:B:422:ASN:HD22	1.83	0.43
1:C:574:ASP:OD1	1:C:574:ASP:N	2.50	0.43
1:C:613:GLN:HA	1:C:648:GLY:HA3	2.01	0.43
1:A:606:ASN:O	1:A:606:ASN:ND2	2.46	0.43
1:B:731:MET:HG3	1:B:1018:ILE:HG13	2.00	0.43
1:C:105:ILE:HD11	1:C:110:LEU:HD22	2.00	0.43
1:A:727:LEU:HD23	1:A:728:PRO:HD2	1.99	0.43
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.52	0.43
1:B:1091:ARG:NH1	1:B:1120:THR:O	2.50	0.43
1:C:774:GLN:HA	1:C:777:ASN:ND2	2.34	0.43
1:C:736:VAL:HG21	1:C:1007:TYR:HE2	1.83	0.43
1:C:976:VAL:HG13	1:C:979:ASP:HB3	2.00	0.43
1:A:100:ILE:HA	1:A:246:ILE:HD12	2.01	0.43
1:C:87:ASN:OD1	1:C:87:ASN:N	2.49	0.43
1:A:41:LYS:HD2	1:C:562:PHE:HE1	1.83	0.43
1:A:1090:PRO:HD3	1:A:1095:PHE:HE2	1.82	0.43
1:C:276:LEU:HD23	1:C:306:PHE:HE1	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:884:SER:OG	1:C:887:THR:OG1	2.28	0.43
1:A:866:THR:OG1	1:A:867:ASP:OD1	2.35	0.43
1:B:385:THR:OG1	1:C:985:ASP:OD2	2.36	0.43
1:C:738:CYS:SG	1:C:739:THR:N	2.91	0.43
1:C:785:VAL:HG12	1:C:787:GLN:H	1.83	0.43
1:C:976:VAL:HG13	1:C:979:ASP:HB3	1.99	0.43
1:A:395:VAL:HG12	1:A:515:PHE:HB3	2.00	0.43
1:A:357:ARG:HG3	1:A:396:TYR:CE1	2.53	0.43
1:A:642:VAL:HG22	1:A:651:ILE:HG22	2.00	0.43
1:A:1040:VAL:HG11	1:B:1035:GLY:HA3	2.01	0.43
1:A:1072:GLU:HG3	1:B:894:LEU:HD13	2.00	0.43
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.89	0.43
1:A:106:PHE:HB3	1:A:235:ILE:HD12	2.01	0.43
1:A:108:THR:HB	1:A:114:THR:HG21	2.00	0.43
1:A:666:ILE:HD11	1:A:672:ALA:HB2	2.00	0.43
1:B:361:CYS:H	1:B:522:ALA:HB1	1.83	0.43
1:B:912:THR:HG22	1:B:914:ASN:H	1.84	0.43
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.18	0.43
1:B:435:ALA:HB2	1:B:510:VAL:HG22	2.01	0.43
1:B:777:ASN:HD21	1:B:1019:ARG:HD2	1.84	0.43
1:B:877:LEU:O	1:B:881:THR:HG23	2.18	0.43
1:C:402:ILE:HD12	1:C:403:ARG:H	1.83	0.43
1:C:781:VAL:HG13	1:C:782:PHE:CD2	2.52	0.43
1:A:676:THR:HA	1:A:690:GLN:HG2	2.00	0.43
1:C:356:LYS:HE2	1:C:358:ILE:HD11	2.01	0.43
1:C:403:ARG:HB3	1:C:495:TYR:HE1	1.84	0.43
1:A:89:GLY:HA3	1:A:270:LEU:HD12	2.01	0.43
1:A:980:ILE:HG23	1:A:984:LEU:HD13	2.01	0.43
1:B:106:PHE:HB2	1:B:117:LEU:HB3	2.00	0.43
1:B:733:LYS:HB3	1:B:861:LEU:HD23	1.99	0.43
1:B:915:VAL:HG12	1:B:1109:PHE:HD2	1.84	0.43
1:A:287:ASP:OD2	1:A:288:ALA:N	2.52	0.43
1:A:867:ASP:OD1	1:A:867:ASP:N	2.51	0.43
1:A:1115:ILE:HG22	1:A:1137:VAL:HG23	2.00	0.43
1:B:117:LEU:HD12	1:B:233:ILE:HD11	2.00	0.43
1:C:48:LEU:HB3	1:C:276:LEU:HD11	2.00	0.43
1:B:877:LEU:O	1:B:881:THR:HG23	2.18	0.43
1:C:273:ARG:NH1	1:C:290:ASP:OD2	2.51	0.43
1:C:497:PHE:CE2	1:C:507:PRO:HB3	2.53	0.43
1:A:369:TYR:CZ	1:A:384:PRO:HB2	2.53	0.43
1:A:873:TYR:O	1:A:877:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:720:ILE:HD11	1:B:1065:VAL:HG12	2.00	0.43
1:C:408:ARG:HH11	1:C:414:GLN:NE2	2.16	0.43
1:C:871:ALA:HA	1:C:874:THR:HG22	2.00	0.43
1:A:287:ASP:OD1	1:A:288:ALA:N	2.51	0.43
1:A:401:VAL:HG22	1:A:509:ARG:HG2	2.00	0.43
1:B:48:LEU:HD23	1:B:276:LEU:HD11	2.00	0.43
1:C:574:ASP:N	1:C:574:ASP:OD1	2.52	0.43
1:B:57:PRO:HB2	1:B:60:SER:HB3	2.01	0.43
1:B:731:MET:H	1:B:774:GLN:NE2	2.16	0.43
1:B:989:ALA:O	1:B:993:ILE:HG12	2.18	0.43
1:C:126:VAL:HB	1:C:172:SER:HB3	2.00	0.43
1:C:916:LEU:HD22	1:C:917:TYR:HD1	1.83	0.43
1:A:911:VAL:HG11	1:A:1067:TYR:HE1	1.84	0.43
1:B:738:CYS:O	1:B:742:ILE:HB	2.18	0.43
1:B:796:ASP:OD1	1:B:796:ASP:N	2.51	0.43
1:A:753:LEU:HD12	1:A:759:PHE:CZ	2.53	0.43
1:B:182:LYS:HD3	1:B:187:LYS:HD2	2.00	0.43
1:B:969:ASN:ND2	1:B:972:ALA:O	2.52	0.43
1:C:965:GLN:HG3	1:C:970:PHE:HZ	1.84	0.43
1:A:781:VAL:HG13	1:A:782:PHE:CD1	2.54	0.43
1:B:960:ASN:O	1:B:964:LYS:HB2	2.19	0.43
1:C:462:LYS:O	1:C:465:GLU:HG3	2.18	0.43
1:C:736:VAL:HG11	1:C:1004:LEU:HD11	1.99	0.43
1:A:404:GLY:HA3	1:A:504:GLY:HA2	2.01	0.43
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.84	0.43
1:B:189:LEU:HD22	1:B:208:THR:HB	2.00	0.43
1:C:131:CYS:SG	1:C:163:ALA:HB1	2.58	0.43
1:C:470:THR:O	1:C:470:THR:OG1	2.32	0.43
1:A:193:VAL:HG21	1:A:270:LEU:HD21	2.00	0.43
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.99	0.43
1:B:394:ASN:OD1	1:B:394:ASN:N	2.52	0.43
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.01	0.43
1:A:106:PHE:O	1:A:117:LEU:N	2.43	0.43
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.34	0.43
1:C:878:LEU:HD21	1:C:1054:GLN:HE22	1.83	0.43
1:C:358:ILE:HG22	1:C:524:VAL:HG11	2.00	0.43
1:C:687:GLN:NE2	1:C:688:THR:O	2.52	0.43
1:A:347:PHE:HB2	1:A:401:VAL:HG23	2.00	0.43
1:A:1023:ASN:O	1:A:1027:THR:OG1	2.35	0.43
1:B:567:ARG:HD3	1:B:571:ASP:HA	2.00	0.43
1:B:569:ILE:H	1:B:569:ILE:HG13	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:902:MET:HE1	1:C:1050:MET:HE2	2.01	0.43
1:A:802:PHE:HB3	1:A:806:LEU:HD23	2.01	0.43
1:B:382:VAL:HG11	1:B:515:PHE:HZ	1.83	0.43
1:C:222:ALA:HB2	1:C:285:ILE:HB	2.00	0.43
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	2.00	0.43
1:B:287:ASP:OD1	1:B:288:ALA:N	2.51	0.43
1:B:751:ASN:HA	1:B:754:LEU:HG	2.00	0.43
1:C:201:PHE:HE2	1:C:203:ILE:HD11	1.83	0.43
1:A:978:ASN:HA	1:A:981:LEU:HG	2.00	0.43
1:B:802:PHE:HE1	1:B:927:PHE:HE2	1.67	0.43
1:B:989:ALA:O	1:B:993:ILE:HG12	2.18	0.43
1:C:273:ARG:HH21	1:C:292:ALA:HB3	1.84	0.43
1:C:1115:ILE:HG22	1:C:1137:VAL:HG23	2.00	0.43
1:A:989:ALA:O	1:A:993:ILE:HG12	2.18	0.43
1:B:287:ASP:OD1	1:B:288:ALA:N	2.51	0.43
1:B:326:ILE:HD13	1:B:533:LEU:HD12	2.01	0.43
1:B:407:VAL:O	1:B:410:ILE:HG22	2.19	0.43
1:B:418:ILE:HD12	1:B:422:ASN:HD22	1.83	0.43
1:B:931:ILE:HA	1:B:934:ILE:HG22	2.00	0.43
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.91	0.43
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.00	0.43
1:C:331:ASN:OD1	1:C:331:ASN:N	2.44	0.43
1:A:611:LEU:HD22	1:A:678:ILE:HD11	2.01	0.43
1:C:717:ASN:OD1	1:C:718:PHE:N	2.49	0.43
1:A:825:LYS:HD3	1:A:942:ALA:HA	2.01	0.43
1:A:395:VAL:HG22	1:A:515:PHE:HB3	2.01	0.43
1:B:1086:LYS:HE3	1:B:1122:VAL:HG11	2.00	0.43
1:C:44:ARG:HB3	1:C:279:TYR:CE2	2.54	0.43
1:C:912:THR:OG1	1:C:1106:GLN:OE1	2.32	0.43
1:C:1045:LYS:HD3	1:C:1045:LYS:HA	1.81	0.43
1:B:129:LYS:NZ	1:B:168:PHE:O	2.51	0.43
1:A:390:LEU:HD12	1:A:391:CYS:H	1.83	0.43
1:A:781:VAL:HG13	1:A:782:PHE:CD1	2.54	0.43
1:B:409:GLN:HA	1:B:414:GLN:HG2	2.00	0.43
1:C:83:VAL:HG11	1:C:237:ARG:HH11	1.83	0.43
1:A:414:GLN:HA	1:A:414:GLN:HE21	1.83	0.43
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	2.00	0.43
1:A:353:TRP:HZ3	1:A:355:ARG:HB2	1.84	0.43
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.99	0.43
1:C:58:PHE:HB2	1:C:293:LEU:HD22	2.00	0.43
1:C:807:PRO:HA	1:C:816:SER:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:483:VAL:HG12	1:A:484:LYS:HG3	2.01	0.43
1:B:393:THR:OG1	1:B:394:ASN:N	2.51	0.43
1:A:1106:GLN:OE1	1:A:1106:GLN:N	2.50	0.43
1:A:1028:LYS:HE2	1:A:1028:LYS:HB2	1.87	0.43
1:B:80:ALA:O	1:B:245:HIS:NE2	2.52	0.43
1:C:882:ILE:HD12	1:C:882:ILE:HA	1.87	0.43
1:C:950:ASP:N	1:C:950:ASP:OD1	2.51	0.43
1:A:97:LYS:HA	1:A:97:LYS:HD2	1.80	0.43
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	2.00	0.43
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.91	0.43
1:B:776:LYS:NZ	1:B:1019:ARG:HE	2.16	0.43
1:B:989:ALA:O	1:B:993:ILE:HG12	2.19	0.43
1:A:170:TYR:CE2	1:A:229:LEU:HD11	2.54	0.43
1:B:731:MET:H	1:B:774:GLN:NE2	2.16	0.43
1:C:404:GLY:HA2	1:C:407:VAL:HG13	1.99	0.43
1:A:1107:ARG:HH21	1:B:896:ILE:HD11	1.84	0.43
1:C:351:TYR:HE2	1:C:452:LEU:HB2	1.83	0.43
1:C:402:ILE:HG23	1:C:407:VAL:HG12	2.00	0.43
1:C:404:GLY:HA2	1:C:407:VAL:HG13	1.99	0.43
1:C:642:VAL:HG22	1:C:651:ILE:HG22	2.01	0.43
1:A:395:VAL:HG22	1:A:515:PHE:HB3	2.01	0.43
1:A:775:ASP:CG	1:A:864:LEU:HG	2.44	0.43
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.01	0.43
1:A:918:GLU:HG3	1:C:1128:VAL:HG21	2.01	0.43
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	2.01	0.43
1:C:729:VAL:HG21	1:C:781:VAL:HG11	2.01	0.43
1:B:962:LEU:HD12	1:B:962:LEU:HA	1.89	0.43
1:A:483:VAL:HG12	1:A:484:LYS:HG2	2.01	0.43
1:A:809:PRO:HA	1:A:814:LYS:HD2	2.00	0.43
1:B:785:VAL:HG12	1:B:787:GLN:H	1.83	0.43
1:A:727:LEU:HD11	1:A:1024:LEU:HG	2.01	0.43
1:B:357:ARG:O	1:B:357:ARG:NH1	2.52	0.43
1:C:229:LEU:HD23	1:C:229:LEU:HA	1.90	0.43
1:B:985:ASP:OD2	1:B:987:PRO:HD2	2.19	0.43
1:B:34:ARG:NH2	1:B:221:SER:H	2.17	0.43
1:B:276:LEU:HD11	1:B:304:LYS:HE2	2.01	0.43
1:A:562:PHE:CE2	1:B:41:LYS:HD2	2.54	0.43
1:A:726:ILE:HG13	1:A:948:LEU:HD23	2.00	0.43
1:A:886:TRP:HB3	1:A:1035:GLY:HA2	2.00	0.43
1:B:92:PHE:HE1	1:B:265:TYR:HB2	1.84	0.43
1:B:390:LEU:HG	1:B:392:PHE:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:LEU:HA	1:B:494:SER:HA	2.01	0.43
1:A:334:ASN:ND2	1:A:360:ASN:O	2.46	0.43
1:A:886:TRP:HH2	1:A:904:TYR:HB3	1.83	0.43
1:B:592:PHE:HZ	1:C:740:MET:HE2	1.84	0.43
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	2.01	0.43
1:C:730:SER:OG	1:C:731:MET:N	2.51	0.43
1:A:64:TRP:HE1	1:A:264:ALA:HB1	1.83	0.43
1:A:678:ILE:HD11	1:A:684:ALA:HB2	2.01	0.43
1:B:777:ASN:O	1:B:781:VAL:HG12	2.19	0.43
1:C:83:VAL:HG22	1:C:239:GLN:HG2	2.01	0.43
1:A:543:PHE:HZ	1:A:552:LEU:HD21	1.83	0.43
1:A:751:ASN:HA	1:A:754:LEU:HG	2.01	0.43
1:C:574:ASP:OD1	1:C:574:ASP:N	2.51	0.43
1:C:912:THR:O	1:C:915:VAL:HG12	2.19	0.43
1:A:1031:GLU:OE1	1:C:1039:ARG:HD3	2.18	0.43
1:B:31:SER:OG	1:B:60:SER:O	2.32	0.43
1:B:574:ASP:OD1	1:B:574:ASP:N	2.51	0.43
1:B:598:ILE:HD11	1:B:611:LEU:HD23	2.00	0.43
1:C:302:THR:O	1:C:304:LYS:NZ	2.52	0.43
1:A:334:ASN:ND2	1:A:360:ASN:O	2.44	0.43
1:A:1090:PRO:HD3	1:A:1095:PHE:HE2	1.84	0.43
1:C:409:GLN:HA	1:C:414:GLN:HG3	2.01	0.43
1:B:877:LEU:O	1:B:881:THR:HG23	2.19	0.43
1:A:197:ILE:HB	1:A:202:LYS:HE3	2.00	0.43
1:B:280:ASN:OD1	1:B:284:THR:N	2.52	0.43
1:A:1081:ILE:HD12	1:A:1081:ILE:HA	1.84	0.43
1:C:439:ASN:ND2	1:C:506:GLN:OE1	2.49	0.43
1:C:574:ASP:N	1:C:574:ASP:OD1	2.52	0.43
1:A:731:MET:H	1:A:774:GLN:NE2	2.17	0.43
1:A:918:GLU:HG3	1:C:1128:VAL:HG21	2.00	0.43
1:B:874:THR:HG21	1:B:1055:SER:HB2	2.01	0.43
1:B:323:THR:HB	1:B:537:LYS:HZ3	1.83	0.43
1:A:767:LEU:HA	1:A:770:ILE:HG12	2.01	0.43
1:B:576:VAL:HG12	1:B:587:ILE:HD11	2.00	0.43
1:C:775:ASP:HB3	1:C:864:LEU:HD12	2.00	0.43
1:B:720:ILE:HD11	1:B:1065:VAL:HG12	2.00	0.43
1:B:722:VAL:HG22	1:B:930:ALA:HB1	2.01	0.43
1:C:39:PRO:HG3	1:C:51:THR:HG21	2.01	0.43
1:C:730:SER:OG	1:C:731:MET:N	2.52	0.43
1:C:966:LEU:HD13	1:C:1000:ARG:NH1	2.33	0.43
1:C:985:ASP:HB2	1:C:986:PRO:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.83	0.43
1:A:985:ASP:O	1:A:989:ALA:HB2	2.19	0.43
1:A:989:ALA:O	1:A:993:ILE:HG13	2.19	0.43
1:C:960:ASN:O	1:C:964:LYS:HG2	2.18	0.43
1:B:34:ARG:NH2	1:B:221:SER:H	2.17	0.43
1:B:112:SER:HB2	1:B:132:GLU:HB3	2.01	0.43
1:C:725:GLU:OE1	1:C:1064:HIS:NE2	2.52	0.43
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.18	0.43
1:C:310:LYS:HG3	1:C:600:PRO:HA	2.00	0.43
1:C:717:ASN:OD1	1:C:718:PHE:N	2.49	0.43
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	2.01	0.43
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.31	0.43
1:B:382:VAL:HG11	1:B:515:PHE:HZ	1.84	0.43
1:C:407:VAL:O	1:C:410:ILE:HG22	2.19	0.43
1:B:989:ALA:O	1:B:993:ILE:HG12	2.19	0.43
1:A:308:VAL:H	1:A:602:THR:HG1	1.67	0.43
1:A:560:LEU:HD12	1:A:562:PHE:HE1	1.84	0.43
1:A:751:ASN:HA	1:A:754:LEU:HG	2.00	0.43
1:A:972:ALA:HB2	1:A:996:LEU:HD21	2.01	0.43
1:A:407:VAL:O	1:A:410:ILE:HG22	2.19	0.43
1:A:521:PRO:HD3	1:B:41:LYS:HZ2	1.83	0.43
1:B:781:VAL:HG13	1:B:782:PHE:CD2	2.54	0.43
1:B:796:ASP:OD1	1:B:796:ASP:N	2.50	0.43
1:C:994:ASP:O	1:C:998:THR:HG23	2.19	0.43
1:A:873:TYR:HE1	1:C:699:LEU:HG	1.84	0.43
1:A:201:PHE:HB3	1:A:229:LEU:HB2	2.00	0.42
1:A:328:ARG:HD3	1:A:543:PHE:HE2	1.84	0.42
1:C:334:ASN:OD1	1:C:335:LEU:N	2.45	0.42
1:A:295:PRO:HA	1:A:298:GLU:HB3	2.02	0.42
1:A:345:THR:O	1:A:509:ARG:NH2	2.52	0.42
1:A:403:ARG:HG2	1:A:497:PHE:HE1	1.83	0.42
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.32	0.42
1:A:950:ASP:N	1:A:950:ASP:OD1	2.49	0.42
1:C:48:LEU:HB3	1:C:276:LEU:HD11	2.00	0.42
1:C:58:PHE:HD1	1:C:290:ASP:HB2	1.84	0.42
1:A:204:TYR:HB3	1:A:223:LEU:HG	2.01	0.42
1:B:106:PHE:HB3	1:B:235:ILE:HG21	2.00	0.42
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.01	0.42
1:C:1045:LYS:HA	1:C:1045:LYS:HD3	1.77	0.42
1:A:22:THR:O	1:A:78:ARG:NH1	2.52	0.42
1:A:457:ARG:HH12	1:A:461:LEU:HB3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:334:ASN:O	1:C:362:VAL:N	2.42	0.42
1:A:674:CYS:HB2	1:A:697:MET:HE1	2.01	0.42
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.69	0.42
1:C:117:LEU:HD12	1:C:117:LEU:HA	1.77	0.42
1:A:751:ASN:HA	1:A:754:LEU:HG	2.00	0.42
1:B:407:VAL:O	1:B:410:ILE:HG22	2.19	0.42
1:C:404:GLY:HA2	1:C:407:VAL:HG13	2.00	0.42
1:C:574:ASP:OD1	1:C:574:ASP:N	2.51	0.42
1:B:751:ASN:HA	1:B:754:LEU:HG	2.00	0.42
1:C:825:LYS:HE3	1:C:825:LYS:HB2	1.87	0.42
1:C:923:ILE:HA	1:C:926:GLN:HG3	2.01	0.42
1:B:455:LEU:HG	1:B:456:PHE:CD2	2.54	0.42
1:B:717:ASN:OD1	1:B:718:PHE:N	2.50	0.42
1:C:36:VAL:HG11	1:C:220:PHE:CZ	2.54	0.42
1:C:759:PHE:HA	1:C:762:GLN:OE1	2.19	0.42
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.01	0.42
1:B:351:TYR:HE1	1:B:452:LEU:HB2	1.84	0.42
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.90	0.42
1:C:970:PHE:HD2	1:C:996:LEU:HA	1.84	0.42
1:B:361:CYS:HB3	1:B:524:VAL:O	2.19	0.42
1:C:287:ASP:OD1	1:C:288:ALA:N	2.52	0.42
1:C:1073:LYS:HE3	1:C:1075:PHE:CZ	2.54	0.42
1:A:740:MET:HE1	1:C:319:ARG:HD3	2.01	0.42
1:C:290:ASP:HB3	1:C:293:LEU:HB2	2.00	0.42
1:A:462:LYS:HE2	1:A:465:GLU:HG3	2.00	0.42
1:A:884:SER:OG	1:A:894:LEU:O	2.37	0.42
1:B:407:VAL:O	1:B:410:ILE:HG22	2.19	0.42
1:B:517:LEU:HD11	1:C:983:ARG:HD2	2.01	0.42
1:C:1019:ARG:HA	1:C:1019:ARG:HH11	1.84	0.42
1:A:483:VAL:HG12	1:A:484:LYS:HG3	2.00	0.42
1:B:406:GLU:HB3	1:B:418:ILE:HG21	2.01	0.42
1:C:737:ASP:OD2	1:C:737:ASP:N	2.45	0.42
1:A:102:ARG:HE	1:A:246:ILE:HD11	1.84	0.42
1:B:989:ALA:O	1:B:993:ILE:HG12	2.19	0.42
1:C:985:ASP:OD1	1:C:985:ASP:N	2.44	0.42
1:B:327:VAL:HB	1:B:531:THR:HG23	2.01	0.42
1:B:402:ILE:HD12	1:B:402:ILE:HA	1.85	0.42
1:C:287:ASP:OD1	1:C:288:ALA:N	2.51	0.42
1:C:884:SER:OG	1:C:887:THR:OG1	2.28	0.42
1:A:47:VAL:HG12	1:C:569:ILE:HA	2.01	0.42
1:A:882:ILE:HD12	1:A:882:ILE:HA	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:303:LEU:HD23	1:B:308:VAL:HG22	2.00	0.42
1:B:592:PHE:HZ	1:C:740:MET:HE2	1.83	0.42
1:B:712:ILE:HG12	1:B:1094:VAL:HG11	2.00	0.42
1:A:401:VAL:HG22	1:A:509:ARG:HG2	2.01	0.42
1:C:332:ILE:HG23	1:C:362:VAL:HG11	2.01	0.42
1:A:396:TYR:HB2	1:A:514:SER:HB3	2.00	0.42
1:C:97:LYS:HD3	1:C:186:PHE:HE1	1.84	0.42
1:C:326:ILE:HD13	1:C:533:LEU:HD12	2.01	0.42
1:C:404:GLY:HA2	1:C:407:VAL:HG13	2.00	0.42
1:B:557:LYS:HE2	1:B:559:PHE:HE1	1.84	0.42
1:C:984:LEU:HD12	1:C:988:GLU:HB2	2.01	0.42
1:A:183:GLN:HG3	1:A:187:LYS:HG3	2.00	0.42
1:A:287:ASP:OD2	1:A:288:ALA:N	2.52	0.42
1:A:287:ASP:OD2	1:A:288:ALA:N	2.52	0.42
1:B:1010:GLN:O	1:B:1014:ARG:HG3	2.19	0.42
1:B:303:LEU:HD23	1:B:308:VAL:HG22	2.02	0.42
1:C:796:ASP:OD1	1:C:796:ASP:N	2.49	0.42
1:C:1077:THR:OG1	1:C:1078:ALA:N	2.52	0.42
1:C:560:LEU:HD12	1:C:561:PRO:HD2	2.01	0.42
1:A:328:ARG:NH1	1:A:531:THR:O	2.41	0.42
1:A:435:ALA:HB2	1:A:510:VAL:HG22	2.01	0.42
1:A:902:MET:HE1	1:A:1050:MET:SD	2.58	0.42
1:C:784:GLN:HA	1:C:784:GLN:NE2	2.35	0.42
1:A:355:ARG:HD2	1:A:396:TYR:HB3	2.01	0.42
1:B:738:CYS:O	1:B:742:ILE:HB	2.19	0.42
1:A:870:ILE:O	1:A:874:THR:HG23	2.20	0.42
1:B:189:LEU:HD11	1:B:208:THR:HB	2.01	0.42
1:B:366:SER:O	1:B:370:ASN:HB2	2.19	0.42
1:C:28:TYR:HB3	1:C:61:ASN:HB3	1.99	0.42
1:A:287:ASP:OD1	1:A:288:ALA:N	2.52	0.42
1:A:380:TYR:HE1	1:A:433:VAL:HG12	1.84	0.42
1:B:822:LEU:HD23	1:B:1056:ALA:HB2	2.01	0.42
1:C:762:GLN:HA	1:C:765:ARG:HG2	2.00	0.42
1:B:309:GLU:O	1:B:313:TYR:OH	2.34	0.42
1:B:462:LYS:HE2	1:B:462:LYS:H	1.84	0.42
1:B:756:TYR:HB3	1:B:759:PHE:HD2	1.84	0.42
1:B:817:PHE:HE2	1:B:935:GLN:HE21	1.67	0.42
1:B:902:MET:HE1	1:B:1050:MET:HE2	2.01	0.42
1:C:954:GLN:OE1	1:C:1014:ARG:NH1	2.52	0.42
1:A:719:THR:HG23	1:A:1068:VAL:HB	2.00	0.42
1:A:883:THR:HB	1:C:705:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:GLY:HA2	1:C:407:VAL:HG13	2.00	0.42
1:C:989:ALA:O	1:C:993:ILE:HG12	2.19	0.42
1:A:806:LEU:HD13	1:A:807:PRO:HD2	2.00	0.42
1:A:904:TYR:HE1	1:C:1094:VAL:HG22	1.84	0.42
1:C:36:VAL:HG11	1:C:220:PHE:CZ	2.54	0.42
1:C:141:LEU:HD13	1:C:246:ILE:HD13	2.01	0.42
1:A:365:TYR:H	1:A:527:PRO:HD3	1.85	0.42
1:B:716:THR:N	1:B:1071:GLN:O	2.52	0.42
1:B:778:THR:HA	1:B:781:VAL:HG12	2.00	0.42
1:A:287:ASP:OD2	1:A:288:ALA:N	2.52	0.42
1:C:564:GLN:O	1:C:577:ARG:N	2.51	0.42
1:A:712:ILE:HG21	1:A:1096:VAL:HG12	2.01	0.42
1:B:733:LYS:HB3	1:B:861:LEU:HD23	2.01	0.42
1:B:785:VAL:HG12	1:B:787:GLN:H	1.84	0.42
1:C:87:ASN:OD1	1:C:87:ASN:N	2.46	0.42
1:C:331:ASN:OD1	1:C:331:ASN:N	2.44	0.42
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.69	0.42
1:A:1105:THR:HG21	1:A:1110:TYR:HD2	1.84	0.42
1:C:986:PRO:O	1:C:990:GLU:HG2	2.19	0.42
1:B:989:ALA:O	1:B:993:ILE:HG12	2.19	0.42
1:B:802:PHE:HB3	1:B:806:LEU:HD23	2.00	0.42
1:C:106:PHE:O	1:C:117:LEU:N	2.46	0.42
1:C:882:ILE:HD12	1:C:882:ILE:HA	1.87	0.42
1:A:106:PHE:HB3	1:A:235:ILE:HD12	2.00	0.42
1:A:287:ASP:OD1	1:A:288:ALA:N	2.53	0.42
1:B:393:THR:OG1	1:B:516:GLU:O	2.34	0.42
1:B:407:VAL:O	1:B:410:ILE:HG22	2.20	0.42
1:A:897:PRO:HD2	1:C:712:ILE:HD13	2.01	0.42
1:B:188:ASN:OD1	1:B:207:HIS:NE2	2.45	0.42
1:B:992:GLN:N	1:B:992:GLN:OE1	2.51	0.42
1:C:276:LEU:HD11	1:C:304:LYS:HA	2.02	0.42
1:C:749:CYS:O	1:C:753:LEU:HB2	2.19	0.42
1:C:758:SER:O	1:C:762:GLN:HG3	2.20	0.42
1:C:884:SER:OG	1:C:894:LEU:O	2.37	0.42
1:C:497:PHE:CE2	1:C:507:PRO:HB3	2.53	0.42
1:C:1001:LEU:HD23	1:C:1001:LEU:HA	1.92	0.42
1:A:395:VAL:HG12	1:A:515:PHE:HB3	2.01	0.42
1:A:1012:LEU:HB3	1:C:1013:ILE:HD13	2.02	0.42
1:B:453:TYR:HD1	1:B:495:TYR:CZ	2.37	0.42
1:B:720:ILE:HD11	1:B:1065:VAL:HG12	2.01	0.42
1:A:883:THR:HB	1:C:705:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:468:ILE:HB	1:C:115:GLN:HE22	1.84	0.42
1:C:331:ASN:OD1	1:C:331:ASN:N	2.44	0.42
1:A:785:VAL:HG12	1:A:787:GLN:H	1.83	0.42
1:C:353:TRP:HE1	1:C:466:ARG:HB2	1.83	0.42
1:C:574:ASP:OD1	1:C:574:ASP:N	2.52	0.42
1:A:406:GLU:N	1:A:406:GLU:OE1	2.52	0.42
1:A:788:ILE:HG23	1:A:876:ALA:HB2	2.01	0.42
1:B:557:LYS:HE2	1:B:559:PHE:HE1	1.85	0.42
1:C:194:PHE:HB3	1:C:201:PHE:CE2	2.54	0.42
1:C:382:VAL:HG21	1:C:515:PHE:HZ	1.82	0.42
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	2.00	0.42
1:B:44:ARG:HB2	1:B:279:TYR:CD2	2.54	0.42
1:B:726:ILE:HG22	1:B:1061:VAL:HG22	2.01	0.42
1:C:642:VAL:HG22	1:C:651:ILE:HG22	2.01	0.42
1:C:931:ILE:HA	1:C:934:ILE:HG22	2.01	0.42
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.27	0.42
1:C:106:PHE:HD1	1:C:235:ILE:HG21	1.84	0.42
1:C:877:LEU:HD21	1:C:1029:MET:HE1	2.01	0.42
1:A:295:PRO:HA	1:A:298:GLU:HB2	2.01	0.42
1:A:731:MET:H	1:A:774:GLN:NE2	2.17	0.42
1:A:642:VAL:HG22	1:A:651:ILE:HG22	2.01	0.42
1:B:701:VAL:HG13	1:C:787:GLN:HG2	2.01	0.42
1:B:971:GLY:O	1:B:995:ARG:NH2	2.44	0.42
1:C:33:THR:HB	1:C:220:PHE:HD1	1.84	0.42
1:B:206:LYS:HE3	1:B:206:LYS:HB3	1.81	0.42
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.42
1:C:717:ASN:OD1	1:C:718:PHE:N	2.50	0.42
1:A:989:ALA:O	1:A:993:ILE:HG12	2.19	0.42
1:B:382:VAL:HG11	1:B:515:PHE:HZ	1.83	0.42
1:B:406:GLU:HB3	1:B:418:ILE:HG21	2.00	0.42
1:B:858:LEU:HD22	1:B:959:LEU:HD12	2.01	0.42
1:A:293:LEU:HD23	1:A:294:ASP:HB3	2.02	0.42
1:A:614:GLY:N	1:A:647:ALA:O	2.42	0.42
1:A:787:GLN:HG2	1:C:701:VAL:HG13	2.02	0.42
1:C:48:LEU:HD11	1:C:278:LYS:HZ3	1.84	0.42
1:A:715:PRO:HD3	1:B:894:LEU:HD11	2.01	0.42
1:A:740:MET:HE1	1:A:857:GLY:HA3	2.02	0.42
1:A:867:ASP:OD1	1:A:867:ASP:N	2.52	0.42
1:B:395:VAL:HG12	1:B:515:PHE:HB3	2.00	0.42
1:B:884:SER:HA	1:B:896:ILE:HG22	2.00	0.42
1:C:712:ILE:HD12	1:C:712:ILE:HA	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:912:THR:O	1:C:915:VAL:HG22	2.19	0.42
1:A:537:LYS:HE3	1:A:537:LYS:HB3	1.92	0.42
1:B:565:PHE:O	1:C:43:PHE:HB3	2.19	0.42
1:A:212:LEU:HD13	1:A:217:PRO:HD3	2.01	0.42
1:A:1039:ARG:NH1	1:C:1039:ARG:HH12	2.18	0.42
1:C:795:LYS:HB3	1:C:797:PHE:CE2	2.55	0.42
1:A:331:ASN:OD1	1:A:331:ASN:N	2.44	0.42
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.31	0.42
1:A:592:PHE:HZ	1:B:740:MET:HE3	1.84	0.42
1:A:962:LEU:HD12	1:A:962:LEU:HA	1.90	0.42
1:B:722:VAL:HG22	1:B:930:ALA:HB1	2.00	0.42
1:B:934:ILE:HD12	1:B:934:ILE:HA	1.76	0.42
1:A:457:ARG:HH12	1:A:461:LEU:HD23	1.84	0.42
1:B:740:MET:HE2	1:B:740:MET:HB2	1.89	0.42
1:B:1128:VAL:HG11	1:C:918:GLU:HG3	2.02	0.42
1:C:906:PHE:CD2	1:C:916:LEU:HB2	2.54	0.42
1:A:870:ILE:O	1:A:874:THR:HG23	2.19	0.42
1:C:906:PHE:CD1	1:C:916:LEU:HB2	2.54	0.42
1:A:984:LEU:HD12	1:A:988:GLU:HB2	2.02	0.42
1:B:978:ASN:HA	1:B:981:LEU:HG	2.02	0.42
1:C:762:GLN:HB3	1:C:765:ARG:HH21	1.84	0.42
1:A:894:LEU:HD23	1:C:713:ALA:HB3	2.01	0.42
1:C:403:ARG:NH1	1:C:405:ASP:OD2	2.52	0.42
1:C:877:LEU:O	1:C:881:THR:OG1	2.32	0.42
1:C:332:ILE:HG13	1:C:362:VAL:HG22	2.01	0.42
1:C:342:PHE:CE1	1:C:511:VAL:HG11	2.55	0.42
1:B:552:LEU:HD13	1:B:587:ILE:HD13	2.01	0.42
1:A:806:LEU:HD22	1:A:878:LEU:HD21	2.00	0.42
1:B:149:ASN:HB2	1:B:153:MET:HE1	2.01	0.42
1:C:200:TYR:HA	1:C:230:PRO:HA	2.02	0.42
1:B:117:LEU:HB2	1:B:233:ILE:HD11	2.02	0.42
1:A:950:ASP:O	1:A:954:GLN:HB3	2.19	0.42
1:B:715:PRO:HD3	1:C:894:LEU:HD21	2.01	0.42
1:A:106:PHE:HB3	1:A:235:ILE:HG12	2.02	0.42
1:A:574:ASP:O	1:A:587:ILE:N	2.39	0.42
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.01	0.42
1:C:882:ILE:HD12	1:C:882:ILE:HA	1.85	0.42
1:A:1089:PHE:HE2	1:B:917:TYR:HD2	1.67	0.42
1:B:317:ASN:HD21	1:B:592:PHE:HD2	1.66	0.42
1:B:552:LEU:HD12	1:B:585:LEU:HB2	2.02	0.42
1:B:574:ASP:OD1	1:B:574:ASP:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:989:ALA:O	1:B:993:ILE:HG12	2.20	0.42
1:C:717:ASN:HB3	1:C:1071:GLN:HG2	2.01	0.42
1:A:908:GLY:O	1:A:1038:LYS:NZ	2.30	0.42
1:B:431:GLY:HA2	1:B:515:PHE:CE2	2.54	0.42
1:A:1129:VAL:HG23	1:A:1132:ILE:HB	2.01	0.42
1:B:594:GLY:H	1:B:613:GLN:NE2	2.18	0.42
1:C:220:PHE:HE2	1:C:285:ILE:HG22	1.84	0.42
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.37	0.42
1:A:406:GLU:N	1:A:406:GLU:OE1	2.52	0.42
1:A:809:PRO:HA	1:A:814:LYS:HD2	2.01	0.42
1:B:44:ARG:HD3	1:B:279:TYR:HE2	1.83	0.42
1:A:1086:LYS:HB3	1:A:1086:LYS:HE3	1.87	0.42
1:B:400:PHE:HE2	1:B:402:ILE:HD13	1.84	0.42
1:B:418:ILE:O	1:B:422:ASN:HB2	2.20	0.42
1:B:769:GLY:HA2	1:B:772:VAL:HG12	2.01	0.42
1:A:543:PHE:HD2	1:A:576:VAL:HG11	1.84	0.42
1:B:332:ILE:HG13	1:B:362:VAL:HG22	2.00	0.42
1:C:796:ASP:OD1	1:C:796:ASP:N	2.49	0.42
1:A:328:ARG:NH1	1:A:531:THR:O	2.44	0.42
1:A:598:ILE:HD11	1:A:678:ILE:HD13	2.01	0.42
1:A:989:ALA:O	1:A:993:ILE:HG12	2.19	0.42
1:C:394:ASN:OD1	1:C:394:ASN:N	2.52	0.42
1:C:730:SER:OG	1:C:731:MET:N	2.52	0.42
1:A:1025:ALA:O	1:A:1029:MET:HB2	2.20	0.42
1:C:574:ASP:N	1:C:574:ASP:OD1	2.52	0.42
1:A:175:PHE:HE2	1:A:177:MET:HG3	1.85	0.42
1:B:462:LYS:HE2	1:B:462:LYS:H	1.85	0.42
1:C:48:LEU:HB3	1:C:276:LEU:HD11	2.01	0.42
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.42
1:A:57:PRO:HB3	1:A:273:ARG:HH12	1.84	0.42
1:A:97:LYS:HD2	1:A:97:LYS:HA	1.87	0.42
1:A:547:THR:O	1:B:978:ASN:ND2	2.52	0.42
1:B:332:ILE:HG13	1:B:362:VAL:HG22	2.01	0.42
1:C:52:GLN:HE22	1:C:273:ARG:N	2.18	0.42
1:C:222:ALA:HB2	1:C:285:ILE:HB	2.02	0.42
1:C:398:ASP:OD1	1:C:423:TYR:OH	2.31	0.42
1:A:206:LYS:HG2	1:A:224:GLU:H	1.83	0.42
1:A:642:VAL:HG22	1:A:651:ILE:HG22	2.02	0.42
1:C:287:ASP:OD1	1:C:288:ALA:N	2.52	0.42
1:A:905:ARG:HE	1:A:1050:MET:HE2	1.83	0.42
1:B:106:PHE:HB3	1:B:235:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:871:ALA:HA	1:C:874:THR:HG22	2.01	0.42
1:B:350:VAL:HG21	1:B:418:ILE:HD11	2.01	0.42
1:C:86:PHE:HE2	1:C:90:VAL:HG22	1.84	0.42
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.01	0.42
1:A:870:ILE:O	1:A:874:THR:HG23	2.20	0.42
1:B:796:ASP:OD2	1:B:796:ASP:N	2.53	0.42
1:B:1115:ILE:HG22	1:B:1137:VAL:HG13	2.01	0.42
1:C:445:VAL:HG22	1:C:499:PRO:HG2	2.02	0.42
1:C:825:LYS:HE2	1:C:825:LYS:HB2	1.81	0.42
1:A:776:LYS:NZ	1:A:1019:ARG:HH21	2.18	0.42
1:B:1039:ARG:NE	1:C:1031:GLU:OE1	2.40	0.42
1:A:997:ILE:O	1:A:1001:LEU:HB3	2.19	0.42
1:C:366:SER:O	1:C:370:ASN:HB2	2.20	0.42
1:A:788:ILE:HG13	1:A:876:ALA:HB2	2.02	0.42
1:B:1046:GLY:HA2	1:C:890:ALA:HA	2.02	0.42
1:C:63:THR:HB	1:C:267:VAL:HG13	2.02	0.42
1:C:402:ILE:HD11	1:C:418:ILE:HG13	2.00	0.42
1:C:462:LYS:H	1:C:462:LYS:HD2	1.85	0.42
1:A:115:GLN:NE2	1:C:468:ILE:HG12	2.34	0.42
1:B:102:ARG:HD2	1:B:141:LEU:HD22	2.02	0.42
1:B:958:ALA:O	1:B:961:THR:OG1	2.33	0.42
1:C:441:LEU:HB3	1:C:509:ARG:HH22	1.85	0.42
1:B:279:TYR:HE1	1:B:285:ILE:HG12	1.85	0.42
1:B:435:ALA:HB2	1:B:510:VAL:HG22	2.02	0.42
1:B:983:ARG:HE	1:B:983:ARG:HB2	1.53	0.42
1:A:278:LYS:HB2	1:A:306:PHE:CE2	2.54	0.42
1:B:319:ARG:HH22	1:C:745:ASP:H	1.66	0.42
1:A:43:PHE:HB3	1:C:565:PHE:O	2.18	0.42
1:A:426:PRO:HD3	1:A:463:PRO:HB3	2.02	0.42
1:A:764:ASN:O	1:A:768:THR:HG23	2.18	0.42
1:A:43:PHE:HE2	1:A:283:GLY:HA3	1.85	0.42
1:A:206:LYS:NZ	1:A:208:THR:HG22	2.34	0.42
1:B:91:TYR:HD1	1:B:193:VAL:HG22	1.84	0.42
1:C:1086:LYS:HA	1:C:1125:ASN:HA	2.01	0.42
1:A:369:TYR:CE2	1:C:416:GLY:HA2	2.54	0.42
1:C:439:ASN:HD21	1:C:499:PRO:HA	1.84	0.42
1:C:611:LEU:HD13	1:C:678:ILE:HD11	2.01	0.42
1:A:1033:VAL:HA	1:A:1051:SER:HB2	2.02	0.42
1:B:774:GLN:HA	1:B:777:ASN:OD1	2.20	0.42
1:B:1002:GLN:O	1:B:1005:GLN:NE2	2.52	0.42
1:C:33:THR:HB	1:C:220:PHE:HD1	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:312:ILE:HD13	1:A:598:ILE:HD13	2.01	0.42
1:A:735:SER:HB2	1:A:861:LEU:HD21	2.01	0.42
1:B:462:LYS:N	1:B:465:GLU:OE2	2.38	0.42
1:B:1120:THR:OG1	1:B:1121:PHE:N	2.51	0.42
1:A:314:GLN:HE22	1:A:594:GLY:HA3	1.84	0.42
1:A:406:GLU:N	1:A:406:GLU:OE1	2.53	0.42
1:C:1114:ILE:HD13	1:C:1114:ILE:HA	1.92	0.42
1:A:787:GLN:HG2	1:C:701:VAL:HG13	2.02	0.42
1:B:902:MET:HE1	1:B:1050:MET:HE2	2.01	0.42
1:A:905:ARG:HB3	1:A:1049:LEU:HD12	2.00	0.42
1:B:733:LYS:HB3	1:B:861:LEU:HD23	2.00	0.42
1:C:409:GLN:HA	1:C:414:GLN:HG3	2.02	0.42
1:B:315:THR:OG1	1:B:316:SER:N	2.52	0.42
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.87	0.42
1:B:1116:THR:OG1	1:B:1118:ASP:OD2	2.36	0.42
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.01	0.42
1:C:816:SER:N	1:C:819:GLU:OE1	2.36	0.42
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.35	0.42
1:C:212:LEU:HD13	1:C:217:PRO:HG3	2.02	0.42
1:C:332:ILE:HG13	1:C:362:VAL:HG22	2.01	0.42
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.42
1:A:970:PHE:HD2	1:A:996:LEU:HA	1.83	0.42
1:B:720:ILE:HD11	1:B:1065:VAL:HG12	2.00	0.42
1:B:802:PHE:HE1	1:B:927:PHE:HE2	1.67	0.42
1:B:370:ASN:HD22	1:B:384:PRO:HB2	1.84	0.42
1:C:1047:TYR:HB2	1:C:1067:TYR:HB3	2.02	0.42
1:B:182:LYS:HD3	1:B:187:LYS:HD2	2.02	0.42
1:A:289:VAL:HG11	1:A:300:LYS:HB2	2.01	0.42
1:A:129:LYS:NZ	1:A:166:CYS:SG	2.70	0.42
1:A:636:TYR:HB3	1:A:651:ILE:HD12	2.00	0.42
1:A:314:GLN:HE22	1:A:594:GLY:HA3	1.84	0.42
1:A:375:SER:OG	1:A:435:ALA:O	2.35	0.42
1:A:537:LYS:HE3	1:A:537:LYS:HB3	1.91	0.42
1:A:1041:ASP:OD1	1:B:1030:SER:HB2	2.20	0.42
1:B:802:PHE:HB3	1:B:806:LEU:HD23	2.02	0.42
1:C:108:THR:O	1:C:237:ARG:NH2	2.45	0.42
1:C:203:ILE:HD13	1:C:227:VAL:HG13	2.01	0.42
1:A:408:ARG:HH11	1:A:414:GLN:HE21	1.66	0.42
1:B:15:CYS:SG	1:B:137:ASN:N	2.91	0.42
1:C:86:PHE:CZ	1:C:89:GLY:HA2	2.55	0.42
1:B:295:PRO:O	1:B:299:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:418:ILE:HD12	1:B:422:ASN:HD22	1.85	0.42
1:C:291:CYS:HB3	1:C:301:CYS:HB2	1.34	0.42
1:C:862:PRO:HA	1:C:863:PRO:HD3	1.93	0.42
1:C:994:ASP:O	1:C:998:THR:HG23	2.20	0.42
1:A:18:PHE:HB2	1:A:21:ARG:HB2	2.02	0.42
1:A:864:LEU:HA	1:C:667:GLY:HA2	2.00	0.42
1:A:882:ILE:HD12	1:A:882:ILE:HA	1.89	0.42
1:B:362:VAL:HG21	1:B:526:GLY:H	1.85	0.42
1:A:569:ILE:HG13	1:B:47:VAL:HG12	2.00	0.42
1:A:884:SER:OG	1:A:887:THR:OG1	2.35	0.42
1:C:402:ILE:HD11	1:C:418:ILE:HG13	2.01	0.42
1:A:785:VAL:HG12	1:A:787:GLN:H	1.83	0.42
1:A:984:LEU:HB2	1:A:989:ALA:HB2	2.02	0.42
1:B:731:MET:H	1:B:774:GLN:NE2	2.18	0.42
1:B:735:SER:HB2	1:B:861:LEU:HD21	2.02	0.42
1:C:877:LEU:O	1:C:881:THR:OG1	2.31	0.42
1:C:994:ASP:O	1:C:998:THR:HG23	2.20	0.42
1:B:715:PRO:HD3	1:C:894:LEU:HD11	2.01	0.42
1:A:43:PHE:HB3	1:C:565:PHE:O	2.19	0.42
1:A:983:ARG:HH11	1:C:517:LEU:HD11	1.84	0.42
1:B:1039:ARG:HD2	1:B:1042:PHE:HB2	2.02	0.42
1:A:414:GLN:HG3	1:A:415:THR:H	1.83	0.42
1:A:1010:GLN:CD	1:A:1014:ARG:HH22	2.28	0.42
1:C:884:SER:OG	1:C:887:THR:OG1	2.30	0.42
1:A:273:ARG:HD2	1:A:292:ALA:HB3	2.01	0.42
1:A:442:ASP:OD2	1:A:509:ARG:NE	2.45	0.42
1:B:407:VAL:O	1:B:410:ILE:HG22	2.20	0.42
1:A:882:ILE:HD12	1:A:882:ILE:HA	1.78	0.42
1:C:426:PRO:HD3	1:C:463:PRO:HB3	2.01	0.42
1:C:1105:THR:HG21	1:C:1110:TYR:HD2	1.85	0.42
1:A:745:ASP:OD1	1:A:745:ASP:N	2.53	0.42
1:A:986:PRO:O	1:A:990:GLU:HB2	2.19	0.42
1:B:733:LYS:HB3	1:B:861:LEU:HD23	2.02	0.42
1:A:193:VAL:HG23	1:A:270:LEU:HD21	2.02	0.42
1:B:455:LEU:HG	1:B:456:PHE:CD2	2.54	0.42
1:B:934:ILE:HD12	1:B:934:ILE:HA	1.80	0.42
1:C:105:ILE:HB	1:C:239:GLN:HB3	2.02	0.42
1:A:475:ALA:HB3	1:A:487:ASN:HB3	2.01	0.42
1:A:674:CYS:HB2	1:A:697:MET:HE3	2.00	0.42
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.73	0.42
1:A:586:ASP:OD1	1:A:586:ASP:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:606:ASN:C	1:A:606:ASN:ND2	2.78	0.42
1:B:195:LYS:HE3	1:B:197:ILE:HD12	2.02	0.42
1:B:985:ASP:HB2	1:B:986:PRO:HD2	2.02	0.42
1:C:642:VAL:HG22	1:C:651:ILE:HG22	2.02	0.42
1:A:740:MET:HE2	1:C:592:PHE:CE2	2.55	0.42
1:B:738:CYS:HB2	1:B:763:LEU:HD11	2.00	0.42
1:B:989:ALA:O	1:B:993:ILE:HG12	2.20	0.42
1:C:434:ILE:HB	1:C:511:VAL:HG13	2.02	0.42
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.01	0.42
1:A:61:ASN:C	1:A:61:ASN:ND2	2.76	0.42
1:A:205:SER:HB3	1:A:226:LEU:HD22	2.02	0.42
1:A:1005:GLN:HE22	1:B:1005:GLN:HG2	1.85	0.42
1:C:130:VAL:HB	1:C:168:PHE:HB3	2.02	0.42
1:A:406:GLU:N	1:A:406:GLU:OE1	2.53	0.42
1:A:781:VAL:HG13	1:A:782:PHE:HD1	1.84	0.42
1:A:957:GLN:HE21	1:B:765:ARG:NH1	2.18	0.42
1:B:310:LYS:HG3	1:B:600:PRO:HA	2.01	0.42
1:B:1039:ARG:HD2	1:B:1042:PHE:HB2	2.01	0.42
1:C:129:LYS:NZ	1:C:167:THR:H	2.16	0.42
1:A:1039:ARG:HG3	1:B:1031:GLU:CD	2.45	0.42
1:B:33:THR:OG1	1:B:34:ARG:NH1	2.53	0.42
1:B:326:ILE:HD13	1:B:533:LEU:HD12	2.02	0.42
1:C:915:VAL:HG21	1:C:1108:ASN:HB3	2.00	0.42
1:A:730:SER:OG	1:A:731:MET:N	2.51	0.42
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.84	0.42
1:C:1012:LEU:HD13	1:C:1012:LEU:HA	1.89	0.42
1:A:415:THR:OG1	1:B:369:TYR:OH	2.26	0.42
1:A:68:ILE:H	1:A:78:ARG:HB2	1.84	0.42
1:A:742:ILE:HD12	1:A:742:ILE:HA	1.80	0.42
1:A:58:PHE:CD2	1:A:290:ASP:HB2	2.55	0.42
1:A:550:GLY:HA2	1:A:589:PRO:HA	2.02	0.42
1:B:276:LEU:HG	1:B:306:PHE:HE1	1.85	0.42
1:B:788:ILE:HG23	1:B:876:ALA:HB2	2.02	0.42
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.42
1:B:339:GLY:O	1:B:343:ASN:HB2	2.19	0.42
1:B:731:MET:H	1:B:774:GLN:HE22	1.67	0.42
1:C:532:ASN:OD1	1:C:533:LEU:N	2.53	0.42
1:C:774:GLN:HA	1:C:777:ASN:ND2	2.35	0.42
1:B:38:TYR:HE2	1:B:224:GLU:HG2	1.85	0.42
1:B:903:ALA:HB1	1:B:913:GLN:HG2	2.01	0.42
1:C:131:CYS:HB2	1:C:133:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:898:PHE:HA	1:C:901:GLN:HB2	2.02	0.42
1:C:985:ASP:OD1	1:C:988:GLU:HG3	2.20	0.42
1:A:308:VAL:H	1:A:602:THR:HG1	1.67	0.42
1:B:1002:GLN:O	1:B:1006:THR:HG23	2.19	0.42
1:A:398:ASP:OD2	1:A:398:ASP:N	2.53	0.42
1:A:701:VAL:HG13	1:B:787:GLN:HG2	2.01	0.42
1:B:202:LYS:HD2	1:B:202:LYS:HA	1.89	0.42
1:B:574:ASP:OD2	1:B:574:ASP:N	2.53	0.42
1:A:756:TYR:HB3	1:A:759:PHE:CD2	2.55	0.42
1:A:809:PRO:HA	1:A:814:LYS:HD2	2.00	0.42
1:B:360:ASN:O	1:B:360:ASN:ND2	2.34	0.42
1:A:222:ALA:HB2	1:A:285:ILE:HB	2.02	0.42
1:B:733:LYS:HB3	1:B:861:LEU:HD23	2.02	0.42
1:B:884:SER:OG	1:B:894:LEU:O	2.37	0.42
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.42
1:A:326:ILE:HD11	1:A:534:VAL:HG22	2.01	0.42
1:A:401:VAL:HG22	1:A:509:ARG:HG2	2.00	0.42
1:B:1106:GLN:OE1	1:B:1106:GLN:N	2.49	0.42
1:C:1009:THR:O	1:C:1013:ILE:HG12	2.20	0.42
1:A:1107:ARG:HH21	1:B:896:ILE:HD11	1.85	0.42
1:B:44:ARG:HH22	1:B:49:HIS:CG	2.37	0.42
1:B:538:CYS:HB3	1:B:590:CYS:HB3	1.52	0.42
1:C:195:LYS:HE3	1:C:195:LYS:HB3	1.88	0.42
1:A:1105:THR:HG21	1:A:1110:TYR:HD1	1.85	0.42
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.53	0.42
1:A:738:CYS:HB3	1:A:763:LEU:HD11	2.02	0.42
1:B:223:LEU:HD12	1:B:223:LEU:HA	1.92	0.42
1:A:791:THR:HG21	1:A:806:LEU:HD11	2.02	0.42
1:A:409:GLN:HA	1:A:414:GLN:HG2	2.01	0.42
1:A:809:PRO:HA	1:A:814:LYS:HD2	2.00	0.42
1:B:44:ARG:HD2	1:B:279:TYR:HE2	1.85	0.42
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.42
1:A:47:VAL:HG12	1:C:569:ILE:HA	2.02	0.42
1:A:815:ARG:NH1	1:A:867:ASP:OD1	2.50	0.42
1:B:44:ARG:HB3	1:B:279:TYR:HD2	1.85	0.42
1:C:882:ILE:HD12	1:C:882:ILE:HA	1.88	0.42
1:A:909:ILE:HA	1:A:1038:LYS:NZ	2.35	0.42
1:C:319:ARG:NH2	1:C:590:CYS:SG	2.93	0.42
1:C:980:ILE:HD13	1:C:980:ILE:HA	1.90	0.42
1:A:592:PHE:CE2	1:B:740:MET:HG3	2.55	0.42
1:A:890:ALA:HA	1:C:1046:GLY:HA2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:191:GLU:HG2	1:A:223:LEU:HD22	2.02	0.42
1:B:390:LEU:HG	1:B:392:PHE:HE1	1.85	0.42
1:B:106:PHE:HB3	1:B:235:ILE:HD12	2.02	0.42
1:B:999:GLY:HA2	1:B:1002:GLN:HG3	2.02	0.42
1:A:205:SER:O	1:A:206:LYS:HD2	2.20	0.42
1:B:106:PHE:HB3	1:B:235:ILE:HD13	2.02	0.42
1:C:457:ARG:NH2	1:C:461:LEU:HG	2.35	0.42
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.19	0.42
1:C:822:LEU:HD13	1:C:1056:ALA:HB2	2.02	0.42
1:C:994:ASP:O	1:C:998:THR:HG23	2.20	0.42
1:C:1010:GLN:HE22	1:C:1014:ARG:HH12	1.68	0.42
1:A:972:ALA:HB2	1:A:996:LEU:HD21	2.02	0.42
1:B:462:LYS:HE2	1:B:462:LYS:H	1.85	0.42
1:C:720:ILE:HD11	1:C:1065:VAL:HG22	2.02	0.42
1:C:788:ILE:HG13	1:C:876:ALA:HB2	2.02	0.42
1:A:720:ILE:HD11	1:A:1065:VAL:HG12	2.02	0.42
1:A:58:PHE:CD2	1:A:290:ASP:HB2	2.54	0.42
1:A:331:ASN:OD1	1:A:331:ASN:N	2.44	0.42
1:A:606:ASN:C	1:A:606:ASN:ND2	2.78	0.42
1:A:1143:PRO:HA	1:A:1146:ASP:HB2	2.02	0.42
1:C:296:LEU:O	1:C:299:THR:OG1	2.35	0.42
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.44	0.42
1:B:730:SER:OG	1:B:731:MET:N	2.52	0.42
1:B:884:SER:OG	1:B:887:THR:OG1	2.29	0.42
1:B:809:PRO:HA	1:B:814:LYS:HD2	2.01	0.42
1:B:983:ARG:HG3	1:B:984:LEU:HD23	2.02	0.42
1:B:994:ASP:HA	1:B:997:ILE:HG12	2.02	0.42
1:C:105:ILE:N	1:C:239:GLN:O	2.35	0.42
1:A:541:PHE:N	1:A:548:GLY:O	2.45	0.42
1:B:139:PRO:HG2	1:B:245:HIS:CE1	2.55	0.42
1:C:879:ALA:O	1:C:883:THR:OG1	2.32	0.42
1:C:1008:VAL:O	1:C:1012:LEU:HD22	2.20	0.42
1:A:774:GLN:HE22	1:A:1018:ILE:HG21	1.85	0.42
1:A:787:GLN:HG2	1:C:701:VAL:HG13	2.02	0.42
1:C:819:GLU:HA	1:C:822:LEU:HG	2.02	0.42
1:A:214:ARG:HD2	1:A:214:ARG:HA	1.84	0.42
1:A:1004:LEU:O	1:A:1008:VAL:HG12	2.20	0.42
1:B:454:ARG:HH12	1:B:457:ARG:HB2	1.84	0.42
1:C:37:TYR:HA	1:C:223:LEU:H	1.84	0.42
1:B:406:GLU:HB3	1:B:418:ILE:HG21	2.02	0.42
1:C:751:ASN:HA	1:C:754:LEU:HG	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:GLU:N	1:A:406:GLU:OE1	2.53	0.42
1:A:730:SER:OG	1:A:731:MET:N	2.51	0.42
1:A:915:VAL:HG11	1:A:1109:PHE:CE2	2.55	0.42
1:A:972:ALA:HB2	1:A:996:LEU:HD21	2.02	0.42
1:B:720:ILE:HD11	1:B:1065:VAL:HG12	2.01	0.42
1:A:113:LYS:HA	1:A:113:LYS:HD2	1.86	0.42
1:A:357:ARG:NH2	1:A:396:TYR:OH	2.53	0.42
1:A:393:THR:OG1	1:A:516:GLU:O	2.37	0.42
1:A:435:ALA:HB2	1:A:510:VAL:HG22	2.02	0.42
1:A:758:SER:O	1:A:762:GLN:HG3	2.20	0.42
1:B:200:TYR:HA	1:B:230:PRO:HA	2.01	0.42
1:B:901:GLN:O	1:B:905:ARG:HG2	2.20	0.42
1:C:393:THR:OG1	1:C:394:ASN:N	2.52	0.42
1:C:759:PHE:HD2	1:C:762:GLN:HE21	1.67	0.42
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.19	0.42
1:A:962:LEU:HD12	1:A:962:LEU:HA	1.89	0.42
1:C:407:VAL:O	1:C:410:ILE:HG22	2.20	0.42
1:B:328:ARG:NH1	1:B:580:GLN:OE1	2.50	0.41
1:A:975:SER:O	1:A:1000:ARG:NH2	2.53	0.41
1:A:984:LEU:HB3	1:A:988:GLU:HG2	2.01	0.41
1:B:709:ASN:ND2	1:C:796:ASP:OD2	2.50	0.41
1:B:934:ILE:HD12	1:B:934:ILE:HA	1.85	0.41
1:A:737:ASP:OD2	1:A:740:MET:HB3	2.20	0.41
1:B:366:SER:O	1:B:370:ASN:HB2	2.19	0.41
1:A:64:TRP:HE1	1:A:264:ALA:HB1	1.84	0.41
1:A:1107:ARG:HE	1:A:1107:ARG:HB3	1.65	0.41
1:B:102:ARG:HD2	1:B:141:LEU:HD22	2.02	0.41
1:B:398:ASP:HB2	1:B:512:VAL:HG13	2.02	0.41
1:A:403:ARG:NH2	1:B:372:ALA:O	2.53	0.41
1:A:883:THR:HB	1:C:705:VAL:HG11	2.02	0.41
1:A:901:GLN:HE21	1:A:1050:MET:HE1	1.85	0.41
1:B:85:PRO:HA	1:B:237:ARG:HH11	1.85	0.41
1:A:406:GLU:N	1:A:406:GLU:OE1	2.53	0.41
1:C:962:LEU:HD21	1:C:1007:TYR:CG	2.55	0.41
1:A:947:LYS:HE2	1:A:947:LYS:HB2	1.95	0.41
1:B:759:PHE:HD1	1:B:762:GLN:HE21	1.67	0.41
1:B:1128:VAL:HG21	1:C:918:GLU:HG3	2.01	0.41
1:C:560:LEU:HD23	1:C:562:PHE:H	1.85	0.41
1:C:738:CYS:O	1:C:742:ILE:HB	2.20	0.41
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.02	0.41
1:A:701:VAL:HG13	1:B:787:GLN:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.90	0.41
1:A:999:GLY:HA2	1:A:1002:GLN:HG3	2.01	0.41
1:B:407:VAL:O	1:B:410:ILE:HG22	2.19	0.41
1:B:972:ALA:HB2	1:B:996:LEU:HD21	2.02	0.41
1:B:993:ILE:O	1:B:997:ILE:HG12	2.20	0.41
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	2.02	0.41
1:A:994:ASP:HA	1:A:997:ILE:HG12	2.02	0.41
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.43	0.41
1:A:58:PHE:HD2	1:A:290:ASP:HB2	1.84	0.41
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.20	0.41
1:C:966:LEU:HA	1:C:1000:ARG:HH12	1.85	0.41
1:A:383:SER:OG	1:B:988:GLU:OE1	2.38	0.41
1:B:185:ASN:HB2	1:B:213:VAL:HA	2.02	0.41
1:C:886:TRP:HH2	1:C:904:TYR:HB3	1.85	0.41
1:B:886:TRP:HZ2	1:B:904:TYR:HD2	1.68	0.41
1:B:904:TYR:HD1	1:B:904:TYR:HA	1.61	0.41
1:B:1090:PRO:HD3	1:B:1095:PHE:HE2	1.85	0.41
1:A:105:ILE:HD12	1:A:105:ILE:HA	1.80	0.41
1:B:117:LEU:HB2	1:B:233:ILE:HD11	2.02	0.41
1:B:701:VAL:HG13	1:C:787:GLN:HG2	2.01	0.41
1:C:229:LEU:HG	1:C:231:ILE:HG23	2.02	0.41
1:A:978:ASN:HA	1:A:981:LEU:HG	2.01	0.41
1:B:701:VAL:HG13	1:C:787:GLN:HG2	2.01	0.41
1:C:586:ASP:OD1	1:C:586:ASP:N	2.49	0.41
1:C:989:ALA:O	1:C:993:ILE:HG12	2.20	0.41
1:A:1002:GLN:NE2	1:B:1005:GLN:OE1	2.50	0.41
1:B:1004:LEU:O	1:B:1008:VAL:HG12	2.20	0.41
1:C:822:LEU:HD13	1:C:1056:ALA:HB2	2.02	0.41
1:C:950:ASP:OD1	1:C:950:ASP:N	2.50	0.41
1:A:129:LYS:HE3	1:A:129:LYS:HB3	1.86	0.41
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.02	0.41
1:A:569:ILE:HD11	1:B:964:LYS:NZ	2.35	0.41
1:B:48:LEU:HD12	1:B:48:LEU:HA	1.93	0.41
1:A:1079:PRO:HB3	1:B:900:MET:HE1	2.02	0.41
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.52	0.41
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.02	0.41
1:A:170:TYR:HE2	1:A:231:ILE:HD11	1.85	0.41
1:A:295:PRO:O	1:A:299:THR:HG23	2.20	0.41
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.37	0.41
1:B:297:SER:HA	1:B:300:LYS:HG2	2.02	0.41
1:B:426:PRO:HD3	1:B:463:PRO:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:58:PHE:HD2	1:B:290:ASP:HB2	1.84	0.41
1:C:1038:LYS:HA	1:C:1038:LYS:HD3	1.79	0.41
1:A:431:GLY:HA2	1:A:515:PHE:CE2	2.55	0.41
1:B:118:LEU:HD21	1:B:135:PHE:HE1	1.85	0.41
1:A:105:ILE:HD13	1:A:105:ILE:HG21	1.83	0.41
1:C:1031:GLU:HG3	1:C:1039:ARG:NH2	2.35	0.41
1:A:195:LYS:HE2	1:A:195:LYS:HB3	1.76	0.41
1:B:934:ILE:HD12	1:B:934:ILE:HA	1.74	0.41
1:C:884:SER:OG	1:C:887:THR:OG1	2.28	0.41
1:A:549:THR:HB	1:B:745:ASP:HB3	2.01	0.41
1:A:436:TRP:HZ3	1:A:511:VAL:HG12	1.85	0.41
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.41
1:A:457:ARG:NH2	1:A:467:ASP:OD2	2.50	0.41
1:A:332:ILE:HG13	1:A:362:VAL:HG22	2.02	0.41
1:B:196:ASN:ND2	1:B:233:ILE:O	2.42	0.41
1:B:679:GLY:HA2	1:C:864:LEU:HD23	2.02	0.41
1:C:867:ASP:N	1:C:867:ASP:OD1	2.51	0.41
1:C:871:ALA:HA	1:C:874:THR:HG22	2.02	0.41
1:A:393:THR:HB	1:A:520:ALA:HB3	2.02	0.41
1:A:396:TYR:CZ	1:B:230:PRO:HG3	2.55	0.41
1:B:187:LYS:NZ	1:B:211:ASN:OD1	2.52	0.41
1:B:751:ASN:HA	1:B:754:LEU:HG	2.01	0.41
1:B:44:ARG:HB2	1:B:279:TYR:CD2	2.55	0.41
1:A:951:VAL:HA	1:A:954:GLN:HG3	2.02	0.41
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.20	0.41
1:B:212:LEU:HD13	1:B:217:PRO:HG3	2.02	0.41
1:B:365:TYR:CE1	1:B:387:LEU:HD12	2.55	0.41
1:C:366:SER:O	1:C:370:ASN:HB2	2.20	0.41
1:C:407:VAL:O	1:C:410:ILE:HG22	2.20	0.41
1:C:775:ASP:HB3	1:C:864:LEU:HD12	2.02	0.41
1:C:777:ASN:OD1	1:C:778:THR:N	2.53	0.41
1:B:1014:ARG:O	1:B:1018:ILE:HG12	2.20	0.41
1:C:48:LEU:HB3	1:C:276:LEU:HD11	2.02	0.41
1:C:393:THR:OG1	1:C:394:ASN:OD1	2.37	0.41
1:C:934:ILE:HD12	1:C:934:ILE:HA	1.89	0.41
1:A:131:CYS:HB2	1:A:133:PHE:CD1	2.55	0.41
1:A:547:THR:OG1	1:B:978:ASN:OD1	2.29	0.41
1:A:39:PRO:HG3	1:A:51:THR:HG21	2.01	0.41
1:B:1051:SER:OG	1:B:1064:HIS:ND1	2.50	0.41
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.87	0.41
1:B:404:GLY:HA2	1:B:407:VAL:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:901:GLN:O	1:B:905:ARG:HG2	2.21	0.41
1:B:1083:HIS:CG	1:B:1137:VAL:HG12	2.55	0.41
1:C:291:CYS:HB2	1:C:301:CYS:HB2	1.27	0.41
1:C:796:ASP:OD1	1:C:796:ASP:N	2.51	0.41
1:A:568:ASP:OD1	1:A:569:ILE:N	2.51	0.41
1:B:453:TYR:HE2	1:B:455:LEU:HB2	1.85	0.41
1:B:777:ASN:O	1:B:781:VAL:HG12	2.20	0.41
1:C:304:LYS:HA	1:C:304:LYS:HE3	2.01	0.41
1:C:728:PRO:HB3	1:C:948:LEU:HD13	2.02	0.41
1:A:222:ALA:HB2	1:A:285:ILE:HB	2.02	0.41
1:A:909:ILE:HG12	1:A:1047:TYR:HB3	2.02	0.41
1:C:912:THR:O	1:C:915:VAL:HG12	2.20	0.41
1:A:406:GLU:OE1	1:A:406:GLU:N	2.53	0.41
1:A:785:VAL:HG12	1:A:787:GLN:H	1.84	0.41
1:A:220:PHE:HE2	1:A:285:ILE:HG22	1.83	0.41
1:A:730:SER:OG	1:A:731:MET:N	2.52	0.41
1:A:809:PRO:HA	1:A:814:LYS:HD2	2.02	0.41
1:A:317:ASN:HD21	1:A:592:PHE:HD2	1.67	0.41
1:B:533:LEU:HD21	1:B:585:LEU:HD11	2.02	0.41
1:C:36:VAL:HG21	1:C:220:PHE:CZ	2.55	0.41
1:A:498:GLN:HB2	1:A:501:TYR:CE1	2.55	0.41
1:B:598:ILE:HB	1:B:609:ALA:HB3	2.01	0.41
1:B:1090:PRO:HD3	1:B:1095:PHE:HE2	1.85	0.41
1:C:272:PRO:O	1:C:273:ARG:HD3	2.20	0.41
1:C:369:TYR:CZ	1:C:384:PRO:HB2	2.56	0.41
1:A:100:ILE:HG23	1:A:247:SER:HB3	2.01	0.41
1:B:600:PRO:HD3	1:B:692:ILE:HD11	2.02	0.41
1:A:884:SER:HG	1:A:887:THR:HG1	1.63	0.41
1:A:1025:ALA:O	1:A:1029:MET:HB2	2.20	0.41
1:B:966:LEU:HD22	1:B:1000:ARG:HH12	1.84	0.41
1:B:415:THR:HG21	1:C:384:PRO:HG3	2.02	0.41
1:B:465:GLU:OE1	1:C:234:ASN:ND2	2.47	0.41
1:A:15:CYS:SG	1:A:137:ASN:N	2.88	0.41
1:A:315:THR:HB	1:A:595:VAL:HG23	2.01	0.41
1:A:317:ASN:HD21	1:A:592:PHE:HB2	1.85	0.41
1:C:737:ASP:HA	1:C:764:ASN:HD21	1.86	0.41
1:A:537:LYS:HE3	1:A:537:LYS:HB3	1.95	0.41
1:A:788:ILE:HG13	1:A:876:ALA:HB2	2.02	0.41
1:A:1050:MET:HB3	1:A:1050:MET:HE2	1.69	0.41
1:B:366:SER:O	1:B:370:ASN:HB2	2.19	0.41
1:C:223:LEU:HD12	1:C:223:LEU:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:431:GLY:HA2	1:C:515:PHE:CZ	2.56	0.41
1:A:731:MET:H	1:A:774:GLN:NE2	2.18	0.41
1:B:600:PRO:HD3	1:B:692:ILE:HD11	2.02	0.41
1:B:390:LEU:HG	1:B:392:PHE:HE1	1.85	0.41
1:B:1013:ILE:HD13	1:C:1012:LEU:HG	2.02	0.41
1:C:223:LEU:HD12	1:C:223:LEU:HA	1.85	0.41
1:A:1090:PRO:HD3	1:A:1095:PHE:HE2	1.86	0.41
1:B:735:SER:HB2	1:B:861:LEU:HD21	2.02	0.41
1:C:758:SER:O	1:C:762:GLN:HG3	2.21	0.41
1:C:914:ASN:OD1	1:C:914:ASN:N	2.53	0.41
1:B:796:ASP:OD1	1:B:796:ASP:N	2.50	0.41
1:A:227:VAL:HG12	1:A:229:LEU:HD22	2.03	0.41
1:B:701:VAL:HG13	1:C:787:GLN:HG3	2.02	0.41
1:A:557:LYS:HE2	1:A:559:PHE:HE1	1.85	0.41
1:B:407:VAL:O	1:B:410:ILE:HG22	2.21	0.41
1:B:439:ASN:OD1	1:B:440:ASN:N	2.51	0.41
1:A:541:PHE:HD2	1:A:543:PHE:CE1	2.39	0.41
1:A:561:PRO:O	1:A:577:ARG:NH1	2.54	0.41
1:B:102:ARG:HH12	1:B:177:MET:HE3	1.84	0.41
1:C:335:LEU:HD22	1:C:364:ASP:HA	2.01	0.41
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	2.01	0.41
1:A:1040:VAL:HG11	1:B:1035:GLY:HA3	2.01	0.41
1:B:189:LEU:HD12	1:B:217:PRO:HG2	2.01	0.41
1:B:884:SER:OG	1:B:894:LEU:O	2.39	0.41
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.20	0.41
1:B:775:ASP:OD1	1:B:775:ASP:N	2.51	0.41
1:B:802:PHE:HE1	1:B:927:PHE:HE2	1.69	0.41
1:B:934:ILE:HD12	1:B:934:ILE:HA	1.78	0.41
1:B:1039:ARG:HD2	1:B:1042:PHE:HB2	2.01	0.41
1:C:34:ARG:NH2	1:C:221:SER:H	2.19	0.41
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	2.02	0.41
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.41
1:C:204:TYR:HB3	1:C:223:LEU:HG	2.02	0.41
1:A:674:CYS:HB2	1:A:697:MET:HG2	2.01	0.41
1:C:52:GLN:HE22	1:C:273:ARG:N	2.18	0.41
1:C:351:TYR:HE2	1:C:452:LEU:HB2	1.86	0.41
1:A:576:VAL:HG12	1:A:587:ILE:HD11	2.01	0.41
1:A:947:LYS:HE3	1:A:947:LYS:HB2	1.96	0.41
1:B:517:LEU:HD23	1:B:518:LEU:HB2	2.01	0.41
1:C:1086:LYS:HE3	1:C:1122:VAL:HG11	2.01	0.41
1:A:91:TYR:HB3	1:A:268:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:722:VAL:HG21	1:B:931:ILE:HD13	2.01	0.41
1:C:86:PHE:HB2	1:C:238:PHE:HD2	1.85	0.41
1:A:758:SER:O	1:A:762:GLN:HG3	2.20	0.41
1:A:946:GLY:HA2	1:A:949:GLN:HB3	2.02	0.41
1:C:201:PHE:HD2	1:C:229:LEU:HD22	1.85	0.41
1:C:312:ILE:HD12	1:C:598:ILE:HD12	2.01	0.41
1:A:537:LYS:HE3	1:A:537:LYS:HB3	1.95	0.41
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.89	0.41
1:A:805:ILE:HG13	1:A:1054:GLN:NE2	2.36	0.41
1:A:1039:ARG:HG3	1:B:1031:GLU:OE1	2.20	0.41
1:B:642:VAL:HG22	1:B:651:ILE:HG22	2.02	0.41
1:C:203:ILE:HD13	1:C:227:VAL:HG13	2.03	0.41
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.41
1:C:884:SER:OG	1:C:894:LEU:O	2.38	0.41
1:A:54:LEU:HD12	1:A:88:ASP:HB3	2.02	0.41
1:A:317:ASN:HD21	1:A:592:PHE:HD2	1.68	0.41
1:A:498:GLN:HB2	1:A:501:TYR:CE2	2.56	0.41
1:A:950:ASP:N	1:A:950:ASP:OD1	2.52	0.41
1:B:914:ASN:OD1	1:B:914:ASN:N	2.53	0.41
1:C:989:ALA:O	1:C:993:ILE:HG13	2.21	0.41
1:C:382:VAL:HG21	1:C:515:PHE:HZ	1.85	0.41
1:B:650:LEU:HD13	1:B:653:ALA:HB3	2.02	0.41
1:B:719:THR:HG23	1:B:1068:VAL:HB	2.02	0.41
1:A:365:TYR:CE2	1:A:387:LEU:HD12	2.56	0.41
1:C:105:ILE:HD11	1:C:110:LEU:HD22	2.03	0.41
1:C:1031:GLU:HG3	1:C:1039:ARG:HH21	1.84	0.41
1:B:276:LEU:HD21	1:B:301:CYS:HA	2.02	0.41
1:C:436:TRP:HZ3	1:C:511:VAL:HG12	1.85	0.41
1:C:730:SER:OG	1:C:731:MET:N	2.54	0.41
1:B:442:ASP:OD1	1:B:509:ARG:NH2	2.44	0.41
1:B:877:LEU:O	1:B:881:THR:HG23	2.20	0.41
1:B:985:ASP:O	1:B:989:ALA:HB2	2.20	0.41
1:C:106:PHE:HB3	1:C:235:ILE:HD13	2.02	0.41
1:C:856:ASN:HD22	1:C:858:LEU:HD23	1.85	0.41
1:A:298:GLU:O	1:A:302:THR:HG23	2.20	0.41
1:A:1029:MET:HE1	1:A:1053:PRO:HB3	2.02	0.41
1:B:720:ILE:HD12	1:B:720:ILE:HA	1.86	0.41
1:B:994:ASP:O	1:B:998:THR:HG23	2.21	0.41
1:B:353:TRP:HH2	1:B:464:PHE:HD1	1.67	0.41
1:B:701:VAL:HG13	1:C:787:GLN:HG3	2.02	0.41
1:B:759:PHE:HA	1:B:762:GLN:HE21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:731:MET:HE2	1:C:955:ASN:HD21	1.85	0.41
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.41
1:C:105:ILE:HG22	1:C:239:GLN:O	2.21	0.41
1:C:1032:CYS:HA	1:C:1048:HIS:CE1	2.55	0.41
1:A:439:ASN:HD21	1:A:506:GLN:HB3	1.84	0.41
1:B:327:VAL:HB	1:B:531:THR:HG23	2.03	0.41
1:B:730:SER:OG	1:B:731:MET:N	2.53	0.41
1:B:970:PHE:HA	1:C:756:TYR:CE2	2.51	0.41
1:C:276:LEU:HD11	1:C:304:LYS:HA	2.02	0.41
1:B:332:ILE:HG13	1:B:362:VAL:HG22	2.02	0.41
1:B:369:TYR:CZ	1:B:384:PRO:HB2	2.55	0.41
1:C:392:PHE:HB2	1:C:524:VAL:HG13	2.03	0.41
1:C:906:PHE:CD2	1:C:916:LEU:HB2	2.55	0.41
1:C:906:PHE:HA	1:C:909:ILE:HG12	2.02	0.41
1:A:529:LYS:H	1:A:529:LYS:HG2	1.68	0.41
1:A:1081:ILE:HD12	1:A:1081:ILE:HA	1.83	0.41
1:B:762:GLN:HB3	1:B:765:ARG:HH21	1.84	0.41
1:A:870:ILE:O	1:A:874:THR:HG23	2.20	0.41
1:B:296:LEU:O	1:B:299:THR:OG1	2.32	0.41
1:A:960:ASN:O	1:A:964:LYS:HB2	2.20	0.41
1:B:517:LEU:HD11	1:C:983:ARG:NH2	2.35	0.41
1:A:33:THR:OG1	1:A:219:GLY:O	2.30	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.53	0.41
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	2.02	0.41
1:B:353:TRP:CH2	1:B:464:PHE:HA	2.54	0.41
1:B:809:PRO:HA	1:B:814:LYS:HD2	2.01	0.41
1:C:36:VAL:HG11	1:C:220:PHE:CZ	2.56	0.41
1:C:276:LEU:HD21	1:C:304:LYS:HA	2.02	0.41
1:C:796:ASP:OD1	1:C:796:ASP:N	2.50	0.41
1:C:912:THR:O	1:C:915:VAL:HG22	2.21	0.41
1:C:957:GLN:O	1:C:961:THR:HG23	2.20	0.41
1:A:895:GLN:NE2	1:C:713:ALA:HB2	2.35	0.41
1:B:884:SER:OG	1:B:887:THR:OG1	2.26	0.41
1:B:951:VAL:HA	1:B:954:GLN:HG3	2.02	0.41
1:C:222:ALA:HB2	1:C:285:ILE:HB	2.02	0.41
1:C:480:CYS:C	1:C:481:ASN:HD22	2.27	0.41
1:C:574:ASP:OD1	1:C:574:ASP:N	2.52	0.41
1:C:407:VAL:O	1:C:410:ILE:HG22	2.20	0.41
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.03	0.41
1:C:788:ILE:HG13	1:C:876:ALA:HB2	2.02	0.41
1:A:642:VAL:HG22	1:A:651:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:957:GLN:O	1:A:961:THR:HG23	2.21	0.41
1:B:970:PHE:HD2	1:B:996:LEU:HA	1.85	0.41
1:C:52:GLN:HE22	1:C:273:ARG:N	2.18	0.41
1:C:195:LYS:HE3	1:C:195:LYS:HB2	1.75	0.41
1:A:115:GLN:HB2	1:A:233:ILE:HG12	2.03	0.41
1:B:775:ASP:HB3	1:B:864:LEU:HD13	2.01	0.41
1:B:1010:GLN:HE22	1:B:1014:ARG:NH2	2.19	0.41
1:C:220:PHE:HE2	1:C:285:ILE:HG22	1.85	0.41
1:C:406:GLU:OE1	1:C:406:GLU:N	2.52	0.41
1:C:557:LYS:HE2	1:C:559:PHE:HE1	1.85	0.41
1:C:985:ASP:HB2	1:C:986:PRO:HD2	2.03	0.41
1:A:1106:GLN:OE1	1:A:1106:GLN:N	2.51	0.41
1:B:172:SER:OG	1:B:173:GLN:N	2.53	0.41
1:B:577:ARG:HG2	1:B:584:ILE:HG13	2.03	0.41
1:A:326:ILE:HD11	1:A:534:VAL:HB	2.02	0.41
1:A:1050:MET:HB2	1:A:1050:MET:HE2	1.75	0.41
1:B:728:PRO:HB2	1:B:1018:ILE:HD11	2.02	0.41
1:C:1004:LEU:O	1:C:1008:VAL:HG23	2.20	0.41
1:A:406:GLU:N	1:A:406:GLU:OE1	2.53	0.41
1:A:758:SER:O	1:A:762:GLN:HG3	2.21	0.41
1:B:105:ILE:HD12	1:B:241:LEU:HD21	2.02	0.41
1:C:402:ILE:HG23	1:C:407:VAL:HG12	2.02	0.41
1:A:826:VAL:HB	1:A:1057:PRO:HG2	2.02	0.41
1:B:431:GLY:HA2	1:B:515:PHE:CE2	2.55	0.41
1:C:642:VAL:HG22	1:C:651:ILE:HG22	2.02	0.41
1:A:168:PHE:HZ	1:C:466:ARG:HH22	1.68	0.41
1:A:821:LEU:HD23	1:A:821:LEU:HA	1.93	0.41
1:A:989:ALA:O	1:A:993:ILE:HG12	2.21	0.41
1:B:827:THR:O	1:B:827:THR:OG1	2.32	0.41
1:C:56:LEU:HD22	1:C:91:TYR:CD1	2.56	0.41
1:C:614:GLY:N	1:C:647:ALA:O	2.44	0.41
1:C:871:ALA:HA	1:C:874:THR:HG22	2.03	0.41
1:C:878:LEU:HD23	1:C:878:LEU:HA	1.90	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41
1:B:574:ASP:OD1	1:B:574:ASP:N	2.45	0.41
1:B:1112:PRO:C	1:B:1113:GLN:HE21	2.29	0.41
1:C:604:THR:OG1	1:C:605:SER:N	2.53	0.41
1:C:1084:ASP:OD1	1:C:1086:LYS:NZ	2.53	0.41
1:B:303:LEU:HD23	1:B:308:VAL:HG22	2.02	0.41
1:A:99:ASN:ND2	1:A:177:MET:SD	2.94	0.41
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:866:THR:O	1:B:870:ILE:HG12	2.21	0.41
1:C:587:ILE:HD12	1:C:587:ILE:HA	1.82	0.41
1:C:729:VAL:HG21	1:C:781:VAL:HG11	2.02	0.41
1:B:756:TYR:HE2	1:B:997:ILE:HD12	1.85	0.41
1:C:1116:THR:OG1	1:C:1118:ASP:OD2	2.36	0.41
1:A:358:ILE:HB	1:A:395:VAL:HG23	2.03	0.41
1:A:781:VAL:HG13	1:A:782:PHE:CD1	2.55	0.41
1:B:905:ARG:HH21	1:B:1050:MET:HA	1.86	0.41
1:C:731:MET:H	1:C:774:GLN:NE2	2.16	0.41
1:B:701:VAL:HG23	1:C:787:GLN:HG2	2.02	0.41
1:A:978:ASN:HA	1:A:981:LEU:HG	2.02	0.41
1:A:1051:SER:OG	1:A:1064:HIS:ND1	2.39	0.41
1:B:395:VAL:HG12	1:B:515:PHE:HB3	2.02	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41
1:C:555:SER:HB2	1:C:586:ASP:OD1	2.20	0.41
1:C:720:ILE:HD11	1:C:1065:VAL:HG12	2.02	0.41
1:A:546:LEU:HD21	1:A:573:THR:HG21	2.02	0.41
1:A:976:VAL:HG13	1:A:979:ASP:HB3	2.01	0.41
1:B:774:GLN:HA	1:B:777:ASN:HD22	1.86	0.41
1:C:420:ASP:HB2	1:C:460:ASN:OD1	2.20	0.41
1:A:427:ASP:OD2	1:C:986:PRO:HB2	2.20	0.41
1:A:563:GLN:HG2	1:B:43:PHE:HB2	2.02	0.41
1:A:1010:GLN:HE22	1:A:1014:ARG:NH2	2.17	0.41
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.94	0.41
1:A:330:PRO:HD3	1:A:579:PRO:HB2	2.03	0.41
1:B:462:LYS:HE2	1:B:462:LYS:H	1.86	0.41
1:C:914:ASN:N	1:C:914:ASN:OD1	2.52	0.41
1:A:425:LEU:HD22	1:A:426:PRO:HD2	2.03	0.41
1:A:758:SER:O	1:A:762:GLN:HG3	2.21	0.41
1:C:223:LEU:HD12	1:C:223:LEU:HA	1.94	0.41
1:C:383:SER:HB2	1:C:387:LEU:HB2	2.03	0.41
1:C:398:ASP:HB2	1:C:512:VAL:HG13	2.03	0.41
1:C:436:TRP:HZ3	1:C:511:VAL:HG12	1.85	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41
1:C:337:PRO:HB3	1:C:340:GLU:OE2	2.21	0.41
1:B:296:LEU:O	1:B:299:THR:OG1	2.33	0.41
1:A:773:GLU:HB2	1:A:776:LYS:HZ1	1.85	0.41
1:C:866:THR:O	1:C:870:ILE:HG12	2.21	0.41
1:A:295:PRO:O	1:A:299:THR:HG23	2.21	0.41
1:C:457:ARG:NE	1:C:467:ASP:OD1	2.52	0.41
1:A:334:ASN:ND2	1:A:360:ASN:O	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:326:ILE:HD13	1:C:533:LEU:HD12	2.03	0.41
1:C:393:THR:OG1	1:C:516:GLU:O	2.38	0.41
1:A:951:VAL:HG13	1:A:954:GLN:HE21	1.86	0.41
1:B:102:ARG:HH21	1:B:246:ILE:HG12	1.86	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41
1:B:562:PHE:HD1	1:C:41:LYS:HG2	1.85	0.41
1:B:738:CYS:HB2	1:B:760:CYS:HB2	1.39	0.41
1:B:767:LEU:HD21	1:B:1008:VAL:HG12	2.02	0.41
1:B:962:LEU:HD22	1:B:1007:TYR:CZ	2.56	0.41
1:C:331:ASN:OD1	1:C:331:ASN:N	2.44	0.41
1:C:574:ASP:OD1	1:C:574:ASP:N	2.51	0.41
1:C:773:GLU:HB2	1:C:1019:ARG:HH12	1.85	0.41
1:C:818:ILE:O	1:C:822:LEU:HG	2.20	0.41
1:C:91:TYR:HE2	1:C:93:ALA:HB2	1.86	0.41
1:A:202:LYS:HG3	1:A:228:ASP:OD1	2.21	0.41
1:A:429:PHE:HE2	1:A:514:SER:HA	1.86	0.41
1:A:557:LYS:HE2	1:A:559:PHE:HE2	1.86	0.41
1:B:503:VAL:HA	1:B:506:GLN:HG3	2.03	0.41
1:B:767:LEU:HD21	1:B:1008:VAL:HG12	2.03	0.41
1:C:985:ASP:OD1	1:C:985:ASP:N	2.53	0.41
1:B:386:LYS:HA	1:B:389:ASP:HB3	2.02	0.41
1:B:884:SER:OG	1:B:894:LEU:O	2.38	0.41
1:B:978:ASN:HA	1:B:981:LEU:HG	2.02	0.41
1:A:722:VAL:HG22	1:A:930:ALA:HB1	2.02	0.41
1:B:598:ILE:HD11	1:B:666:ILE:HD13	2.02	0.41
1:A:22:THR:OG1	1:A:78:ARG:NH1	2.53	0.41
1:A:377:PHE:H	1:C:408:ARG:NH2	2.18	0.41
1:A:398:ASP:HB2	1:A:512:VAL:HG13	2.03	0.41
1:B:731:MET:HG3	1:B:1018:ILE:HG13	2.03	0.41
1:B:989:ALA:O	1:B:993:ILE:HG12	2.21	0.41
1:C:884:SER:OG	1:C:887:THR:OG1	2.32	0.41
1:A:89:GLY:HA3	1:A:270:LEU:HD12	2.03	0.41
1:A:328:ARG:NH1	1:A:531:THR:O	2.54	0.41
1:C:310:LYS:HG2	1:C:664:ILE:HG21	2.03	0.41
1:C:316:SER:OG	1:C:317:ASN:N	2.54	0.41
1:C:806:LEU:HD12	1:C:807:PRO:HD2	2.02	0.41
1:A:987:PRO:HD2	1:A:988:GLU:OE1	2.21	0.41
1:B:290:ASP:HB3	1:B:293:LEU:HB2	2.01	0.41
1:B:407:VAL:O	1:B:410:ILE:HG22	2.21	0.41
1:C:536:ASN:HA	1:C:553:THR:HG22	2.01	0.41
1:C:912:THR:O	1:C:915:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:SER:OG	1:A:60:SER:O	2.31	0.41
1:C:462:LYS:H	1:C:462:LYS:HE2	1.86	0.41
1:A:403:ARG:HD2	1:A:505:TYR:CD1	2.55	0.41
1:A:1107:ARG:HE	1:A:1107:ARG:HB3	1.66	0.41
1:A:287:ASP:OD1	1:A:288:ALA:N	2.54	0.41
1:A:326:ILE:HD11	1:A:534:VAL:HG22	2.03	0.41
1:A:862:PRO:HA	1:A:863:PRO:HD3	1.95	0.41
1:B:27:ALA:HB3	1:B:64:TRP:HE3	1.86	0.41
1:B:1014:ARG:O	1:B:1018:ILE:HG12	2.21	0.41
1:A:599:THR:HB	1:A:608:VAL:HG23	2.02	0.41
1:A:737:ASP:OD1	1:A:740:MET:HB3	2.21	0.41
1:B:517:LEU:HD12	1:B:518:LEU:HB3	2.02	0.41
1:B:822:LEU:HD11	1:B:1061:VAL:HG21	2.03	0.41
1:A:22:THR:O	1:A:78:ARG:NH1	2.53	0.41
1:A:402:ILE:HD12	1:A:403:ARG:H	1.85	0.41
1:B:84:LEU:H	1:B:237:ARG:CZ	2.34	0.41
1:B:537:LYS:HE3	1:B:537:LYS:HB3	1.90	0.41
1:C:586:ASP:OD1	1:C:586:ASP:N	2.53	0.41
1:C:670:ASN:HD22	1:C:671:SER:N	2.18	0.41
1:B:326:ILE:HD13	1:B:533:LEU:HD12	2.02	0.41
1:B:379:CYS:HA	1:B:432:CYS:HA	2.02	0.41
1:A:406:GLU:OE1	1:A:406:GLU:N	2.53	0.41
1:A:407:VAL:O	1:A:410:ILE:HG22	2.20	0.41
1:A:1006:THR:OG1	1:A:1007:TYR:N	2.52	0.41
1:B:326:ILE:HD13	1:B:533:LEU:HD12	2.03	0.41
1:A:598:ILE:HB	1:A:609:ALA:HB3	2.02	0.41
1:B:708:SER:HB3	1:B:711:SER:HB2	2.03	0.41
1:C:452:LEU:HD23	1:C:452:LEU:HA	1.94	0.41
1:C:791:THR:HG21	1:C:806:LEU:HD21	2.02	0.41
1:B:153:MET:HE3	1:B:153:MET:HB3	1.83	0.41
1:C:435:ALA:HB2	1:C:510:VAL:HG12	2.03	0.41
1:C:818:ILE:O	1:C:822:LEU:HG	2.20	0.41
1:C:878:LEU:HD21	1:C:1052:PHE:HB3	2.02	0.41
1:A:560:LEU:HD21	1:B:224:GLU:OE2	2.20	0.41
1:A:993:ILE:O	1:A:997:ILE:HG12	2.21	0.41
1:A:1050:MET:HE2	1:A:1050:MET:HB3	1.83	0.41
1:B:993:ILE:O	1:B:997:ILE:HG12	2.21	0.41
1:C:976:VAL:HG13	1:C:979:ASP:HB3	2.03	0.41
1:B:1039:ARG:HD3	1:C:1031:GLU:OE2	2.20	0.41
1:C:452:LEU:HG	1:C:494:SER:HA	2.03	0.41
1:A:365:TYR:HD1	1:A:387:LEU:HB3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:720:ILE:HD11	1:B:1065:VAL:HG12	2.02	0.41
1:B:818:ILE:O	1:B:822:LEU:HD23	2.20	0.41
1:C:84:LEU:HD22	1:C:238:PHE:CZ	2.56	0.41
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.48	0.41
1:A:762:GLN:HA	1:A:765:ARG:HG2	2.02	0.41
1:B:296:LEU:O	1:B:299:THR:OG1	2.36	0.41
1:B:390:LEU:HD21	1:B:517:LEU:HD11	2.03	0.41
1:B:827:THR:O	1:B:827:THR:OG1	2.27	0.41
1:C:1115:ILE:HG22	1:C:1137:VAL:HG23	2.03	0.41
1:A:866:THR:O	1:A:870:ILE:HG22	2.21	0.41
1:B:676:THR:HA	1:B:690:GLN:HG2	2.03	0.41
1:A:1107:ARG:HE	1:A:1107:ARG:HB3	1.68	0.41
1:B:201:PHE:CE2	1:B:235:ILE:HD12	2.55	0.41
1:C:775:ASP:OD1	1:C:775:ASP:N	2.54	0.41
1:A:1081:ILE:HG12	1:A:1095:PHE:CE2	2.56	0.41
1:A:299:THR:HG21	1:A:597:VAL:HG21	2.02	0.41
1:A:765:ARG:CZ	1:C:957:GLN:HE21	2.34	0.41
1:B:498:GLN:HB2	1:B:501:TYR:CE2	2.56	0.41
1:A:984:LEU:HD23	1:A:988:GLU:HG2	2.02	0.41
1:B:189:LEU:HD23	1:B:217:PRO:HG2	2.01	0.41
1:B:276:LEU:HD11	1:B:304:LYS:HA	2.03	0.41
1:C:877:LEU:HD21	1:C:1029:MET:SD	2.60	0.41
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	2.02	0.41
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.03	0.41
1:C:882:ILE:HD12	1:C:882:ILE:HA	1.87	0.41
1:A:295:PRO:O	1:A:299:THR:HG23	2.21	0.41
1:B:293:LEU:HD22	1:B:294:ASP:OD2	2.20	0.41
1:B:314:GLN:HE22	1:B:594:GLY:HA3	1.86	0.41
1:C:402:ILE:HD11	1:C:418:ILE:HG13	2.02	0.41
1:C:774:GLN:HE22	1:C:1018:ILE:HG21	1.85	0.41
1:A:233:ILE:HD12	1:A:233:ILE:HA	1.94	0.41
1:A:276:LEU:HD13	1:A:276:LEU:HA	1.86	0.41
1:B:533:LEU:HD21	1:B:585:LEU:HD11	2.03	0.41
1:B:763:LEU:HB2	1:B:1008:VAL:HG11	2.03	0.41
1:A:720:ILE:HD11	1:A:1065:VAL:HG12	2.02	0.41
1:B:177:MET:HG2	1:B:190:ARG:HH22	1.85	0.41
1:B:598:ILE:HB	1:B:609:ALA:HB3	2.02	0.41
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	2.02	0.41
1:A:759:PHE:O	1:A:762:GLN:NE2	2.54	0.41
1:A:989:ALA:O	1:A:993:ILE:HG12	2.21	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:300:LYS:NZ	1:A:306:PHE:O	2.54	0.41
1:B:279:TYR:HE1	1:B:285:ILE:HG12	1.86	0.41
1:C:332:ILE:HG13	1:C:362:VAL:HG22	2.02	0.41
1:C:1031:GLU:HG3	1:C:1039:ARG:NH2	2.35	0.41
1:A:34:ARG:HG3	1:A:216:LEU:HD11	2.02	0.41
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.93	0.41
1:C:722:VAL:HG12	1:C:1065:VAL:HG22	2.02	0.41
1:A:302:THR:HG21	1:A:315:THR:HA	2.03	0.41
1:A:541:PHE:N	1:A:548:GLY:O	2.52	0.41
1:B:277:LEU:HD12	1:B:285:ILE:HD13	2.02	0.41
1:B:471:GLU:OE1	1:C:113:LYS:NZ	2.41	0.41
1:C:192:PHE:HB3	1:C:194:PHE:HE2	1.86	0.41
1:C:592:PHE:HD1	1:C:593:GLY:HA2	1.86	0.41
1:C:906:PHE:HB3	1:C:911:VAL:HB	2.03	0.41
1:C:1108:ASN:OD1	1:C:1108:ASN:N	2.54	0.41
1:B:89:GLY:HA3	1:B:270:LEU:HD12	2.03	0.41
1:B:374:PHE:HB2	1:B:377:PHE:CE1	2.55	0.41
1:B:552:LEU:HD12	1:B:552:LEU:HA	1.94	0.41
1:C:973:ILE:HG21	1:C:983:ARG:HH22	1.86	0.41
1:A:334:ASN:ND2	1:A:360:ASN:O	2.44	0.41
1:A:867:ASP:N	1:A:867:ASP:OD1	2.54	0.41
1:A:1105:THR:HG21	1:A:1110:TYR:HA	2.03	0.41
1:B:332:ILE:HG13	1:B:362:VAL:HG22	2.02	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41
1:B:1045:LYS:O	1:B:1066:THR:HG21	2.21	0.41
1:B:1107:ARG:HG3	1:B:1108:ASN:OD1	2.21	0.41
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.21	0.41
1:C:1010:GLN:NE2	1:C:1014:ARG:HH12	2.19	0.41
1:A:997:ILE:O	1:A:1001:LEU:HB3	2.21	0.41
1:B:431:GLY:HA2	1:B:515:PHE:CZ	2.56	0.41
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.48	0.41
1:B:758:SER:O	1:B:762:GLN:HG3	2.21	0.41
1:B:759:PHE:HA	1:B:762:GLN:HE21	1.86	0.41
1:C:295:PRO:O	1:C:299:THR:HG23	2.21	0.41
1:A:406:GLU:OE1	1:A:406:GLU:N	2.54	0.41
1:A:962:LEU:HD22	1:A:1007:TYR:CE2	2.56	0.41
1:C:1073:LYS:HE3	1:C:1075:PHE:CZ	2.55	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41
1:B:462:LYS:H	1:B:462:LYS:HE2	1.86	0.41
1:B:740:MET:HE3	1:B:740:MET:HB3	1.97	0.41
1:B:1106:GLN:H	1:B:1106:GLN:HG2	1.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:759:PHE:HA	1:C:762:GLN:HE21	1.86	0.41
1:A:43:PHE:HB3	1:C:565:PHE:O	2.20	0.41
1:A:47:VAL:HG12	1:C:569:ILE:HA	2.03	0.41
1:B:48:LEU:HD12	1:B:48:LEU:HA	1.94	0.41
1:B:537:LYS:HE3	1:B:537:LYS:HB3	1.87	0.41
1:B:733:LYS:HB3	1:B:861:LEU:HD23	2.01	0.41
1:B:775:ASP:HB3	1:B:864:LEU:HD13	2.03	0.41
1:B:429:PHE:CE2	1:B:514:SER:HA	2.55	0.41
1:B:785:VAL:HG12	1:B:787:GLN:H	1.86	0.41
1:B:905:ARG:NE	1:B:1049:LEU:O	2.52	0.41
1:C:406:GLU:HG2	1:C:418:ILE:HD11	2.03	0.41
1:C:429:PHE:HE1	1:C:514:SER:HA	1.86	0.41
1:C:557:LYS:HE2	1:C:559:PHE:HE1	1.86	0.41
1:C:867:ASP:N	1:C:867:ASP:OD1	2.52	0.41
1:A:769:GLY:HA2	1:A:772:VAL:HG22	2.01	0.41
1:A:994:ASP:O	1:A:998:THR:HG23	2.21	0.41
1:B:484:LYS:HD2	1:B:490:PHE:HB2	2.02	0.41
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.54	0.41
1:B:1106:GLN:OE1	1:B:1106:GLN:N	2.54	0.41
1:C:151:SER:HB2	1:C:153:MET:HE3	2.02	0.41
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.44	0.41
1:A:781:VAL:HG13	1:A:782:PHE:CD1	2.56	0.41
1:A:1079:PRO:HB3	1:B:900:MET:HE1	2.03	0.41
1:B:222:ALA:HB2	1:B:285:ILE:HB	2.02	0.41
1:B:299:THR:HG22	1:B:597:VAL:HG21	2.01	0.41
1:B:425:LEU:HD12	1:B:429:PHE:CD2	2.56	0.41
1:B:1046:GLY:HA2	1:C:890:ALA:HA	2.03	0.41
1:A:712:ILE:HG23	1:A:1075:PHE:HB2	2.02	0.41
1:B:324:GLU:OE1	1:B:324:GLU:N	2.54	0.41
1:B:716:THR:HG21	1:B:1073:LYS:HG3	2.03	0.41
1:C:407:VAL:HG21	1:C:508:TYR:CD2	2.52	0.41
1:C:976:VAL:HG13	1:C:979:ASP:HB3	2.02	0.41
1:B:517:LEU:HD12	1:B:518:LEU:HB2	2.02	0.41
1:B:699:LEU:HG	1:C:873:TYR:HE1	1.86	0.41
1:B:909:ILE:HD11	1:B:1047:TYR:CD1	2.56	0.41
1:C:424:LYS:HD3	1:C:424:LYS:HA	1.86	0.41
1:C:462:LYS:O	1:C:465:GLU:HG3	2.21	0.41
1:C:712:ILE:HD12	1:C:712:ILE:HA	1.82	0.41
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.01	0.41
1:C:914:ASN:HD21	1:C:1106:GLN:CD	2.28	0.41
1:A:392:PHE:HB2	1:A:524:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:431:GLY:HA2	1:A:515:PHE:CE1	2.55	0.41
1:A:559:PHE:HB2	1:A:584:ILE:HD13	2.02	0.41
1:A:714:ILE:HD12	1:A:1107:ARG:HA	2.01	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41
1:B:604:THR:OG1	1:B:605:SER:N	2.53	0.41
1:B:701:VAL:HG13	1:C:787:GLN:HG2	2.03	0.41
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.03	0.41
1:C:914:ASN:O	1:C:918:GLU:HB2	2.21	0.41
1:A:89:GLY:HA3	1:A:270:LEU:HD12	2.03	0.41
1:A:521:PRO:HA	1:A:564:GLN:HE22	1.86	0.41
1:A:734:THR:O	1:A:767:LEU:HD12	2.21	0.41
1:A:1081:ILE:HG23	1:A:1088:HIS:HB2	2.03	0.41
1:B:576:VAL:HG12	1:B:587:ILE:HD11	2.03	0.41
1:B:759:PHE:HA	1:B:762:GLN:HE21	1.86	0.41
1:C:14:GLN:O	1:C:158:ARG:NE	2.54	0.41
1:A:106:PHE:HD1	1:A:238:PHE:HB3	1.86	0.41
1:A:557:LYS:HE2	1:A:559:PHE:HE2	1.86	0.41
1:C:976:VAL:HG13	1:C:979:ASP:HB3	2.03	0.41
1:A:128:ILE:HB	1:A:170:TYR:HD2	1.84	0.41
1:A:730:SER:OG	1:A:731:MET:N	2.52	0.41
1:A:1081:ILE:HD12	1:A:1081:ILE:HA	1.80	0.41
1:B:379:CYS:HA	1:B:432:CYS:HA	2.02	0.41
1:B:670:ASN:HD22	1:B:671:SER:N	2.17	0.41
1:C:912:THR:O	1:C:915:VAL:HG12	2.21	0.41
1:A:222:ALA:HB2	1:A:285:ILE:HB	2.03	0.41
1:A:406:GLU:OE1	1:A:406:GLU:N	2.54	0.41
1:B:293:LEU:HD22	1:B:294:ASP:OD2	2.20	0.41
1:B:365:TYR:O	1:B:369:TYR:HB2	2.21	0.41
1:C:387:LEU:HD13	1:C:392:PHE:HZ	1.86	0.41
1:C:501:TYR:HB3	1:C:505:TYR:HB3	2.03	0.41
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.21	0.41
1:C:247:SER:O	1:C:258:TRP:NE1	2.52	0.41
1:C:330:PRO:HD3	1:C:579:PRO:HB2	2.03	0.41
1:C:912:THR:O	1:C:915:VAL:HG12	2.21	0.41
1:A:86:PHE:CE1	1:A:90:VAL:HG12	2.56	0.41
1:A:594:GLY:H	1:A:613:GLN:HE21	1.68	0.41
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.86	0.41
1:B:54:LEU:HD12	1:B:270:LEU:HD12	2.03	0.41
1:B:293:LEU:HD23	1:B:294:ASP:HB3	2.03	0.41
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.41
1:C:410:ILE:HG21	1:C:433:VAL:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:GLN:O	1:A:158:ARG:NE	2.52	0.41
1:B:431:GLY:HA2	1:B:515:PHE:CE2	2.55	0.41
1:B:596:SER:HB2	1:B:611:LEU:HG	2.02	0.41
1:C:330:PRO:HD3	1:C:579:PRO:HB2	2.03	0.41
1:C:380:TYR:HE1	1:C:433:VAL:HG12	1.85	0.41
1:A:206:LYS:HE3	1:A:208:THR:HG23	2.02	0.41
1:B:280:ASN:OD1	1:B:284:THR:N	2.53	0.41
1:B:955:ASN:O	1:B:959:LEU:HD22	2.22	0.41
1:C:457:ARG:HH22	1:C:461:LEU:HG	1.86	0.41
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	2.01	0.41
1:B:431:GLY:HA2	1:B:515:PHE:CE2	2.56	0.41
1:B:774:GLN:HE22	1:B:1018:ILE:HG21	1.86	0.41
1:B:866:THR:O	1:B:870:ILE:HG12	2.22	0.41
1:A:734:THR:O	1:A:767:LEU:HD12	2.21	0.41
1:B:327:VAL:HB	1:B:531:THR:HG23	2.03	0.41
1:A:57:PRO:HB3	1:A:273:ARG:HH12	1.86	0.41
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.86	0.41
1:A:890:ALA:HA	1:C:1046:GLY:HA2	2.03	0.41
1:B:330:PRO:HD3	1:B:579:PRO:HB2	2.02	0.41
1:C:788:ILE:HG23	1:C:876:ALA:HB2	2.03	0.41
1:A:866:THR:OG1	1:A:867:ASP:N	2.54	0.41
1:A:883:THR:HB	1:C:705:VAL:HG11	2.02	0.41
1:B:351:TYR:HE1	1:B:452:LEU:HB2	1.85	0.41
1:B:1090:PRO:HD3	1:B:1095:PHE:HE2	1.86	0.41
1:C:431:GLY:HA2	1:C:515:PHE:CE1	2.56	0.41
1:C:878:LEU:HD21	1:C:1052:PHE:HB3	2.03	0.41
1:A:299:THR:HG21	1:A:597:VAL:HG21	2.03	0.41
1:C:369:TYR:CZ	1:C:384:PRO:HB2	2.56	0.41
1:A:740:MET:HE1	1:A:857:GLY:HA3	2.02	0.41
1:B:183:GLN:HG3	1:B:187:LYS:HG3	2.03	0.41
1:A:861:LEU:HD12	1:A:862:PRO:HD2	2.03	0.41
1:B:669:GLY:O	1:B:670:ILE:HD13	2.21	0.41
1:C:370:ASN:ND2	1:C:384:PRO:HB2	2.36	0.41
1:A:733:LYS:HB3	1:A:861:LEU:HD23	2.02	0.41
1:A:809:PRO:HA	1:A:814:LYS:HD2	2.03	0.41
1:B:884:SER:OG	1:B:894:LEU:O	2.39	0.41
1:C:726:ILE:HG23	1:C:947:LYS:HB3	2.03	0.41
1:C:869:MET:HE2	1:C:869:MET:HB3	1.93	0.41
1:A:726:ILE:HD12	1:A:1061:VAL:HG12	2.02	0.41
1:C:809:PRO:O	1:C:814:LYS:NZ	2.39	0.41
1:A:1090:PRO:HD3	1:A:1095:PHE:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:537:LYS:HE3	1:B:537:LYS:HB3	1.89	0.41
1:B:592:PHE:CE2	1:C:740:MET:HG3	2.56	0.41
1:B:730:SER:OG	1:B:731:MET:N	2.52	0.41
1:A:701:VAL:HG13	1:B:787:GLN:HG2	2.03	0.41
1:A:758:SER:O	1:A:762:GLN:HG3	2.21	0.41
1:A:999:GLY:HA2	1:A:1002:GLN:HG3	2.02	0.41
1:A:183:GLN:HG3	1:A:187:LYS:HG3	2.02	0.41
1:B:39:PRO:HG3	1:B:51:THR:HG21	2.03	0.41
1:A:365:TYR:CE2	1:A:387:LEU:HD12	2.55	0.41
1:C:206:LYS:HD2	1:C:207:HIS:N	2.36	0.41
1:C:365:TYR:CE1	1:C:387:LEU:HD12	2.56	0.41
1:C:902:MET:HB3	1:C:916:LEU:HD11	2.02	0.41
1:A:984:LEU:HG	1:A:989:ALA:HB2	2.02	0.41
1:B:973:ILE:HG21	1:B:983:ARG:HH12	1.86	0.41
1:C:902:MET:HB3	1:C:916:LEU:HD11	2.03	0.41
1:C:980:ILE:HD13	1:C:980:ILE:HA	1.94	0.41
1:B:183:GLN:HG3	1:B:187:LYS:HG3	2.02	0.41
1:C:85:PRO:HA	1:C:237:ARG:HG2	2.03	0.41
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.48	0.41
1:B:742:ILE:HD13	1:B:742:ILE:HA	1.95	0.41
1:B:802:PHE:HE1	1:B:927:PHE:HE2	1.68	0.41
1:A:287:ASP:OD1	1:A:288:ALA:N	2.54	0.41
1:A:402:ILE:HD11	1:A:418:ILE:HG13	2.03	0.41
1:A:1090:PRO:HD3	1:A:1095:PHE:HE2	1.86	0.41
1:C:205:SER:N	1:C:224:GLU:O	2.39	0.41
1:C:406:GLU:OE1	1:C:406:GLU:N	2.54	0.41
1:C:730:SER:OG	1:C:731:MET:N	2.54	0.41
1:C:758:SER:O	1:C:762:GLN:HG3	2.21	0.41
1:A:735:SER:HB2	1:A:861:LEU:HD21	2.02	0.41
1:A:862:PRO:HA	1:A:863:PRO:HD3	1.97	0.41
1:B:722:VAL:HG12	1:B:1065:VAL:HG22	2.02	0.41
1:C:31:SER:O	1:C:31:SER:OG	2.36	0.41
1:C:121:ASN:HA	1:C:126:VAL:HA	2.02	0.41
1:B:738:CYS:O	1:B:742:ILE:HG12	2.21	0.40
1:A:212:LEU:HD22	1:A:217:PRO:HD3	2.03	0.40
1:C:714:ILE:HG12	1:C:1075:PHE:HD2	1.86	0.40
1:A:296:LEU:O	1:A:299:THR:OG1	2.35	0.40
1:A:559:PHE:CD1	1:A:584:ILE:HG21	2.56	0.40
1:B:1005:GLN:O	1:B:1009:THR:HG23	2.21	0.40
1:A:442:ASP:OD2	1:A:509:ARG:NE	2.47	0.40
1:C:867:ASP:N	1:C:867:ASP:OD1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:934:ILE:HD12	1:C:934:ILE:HA	1.89	0.40
1:A:115:GLN:HE21	1:C:468:ILE:HG12	1.86	0.40
1:B:733:LYS:HD2	1:B:771:ALA:HB1	2.03	0.40
1:C:966:LEU:HD12	1:C:1000:ARG:NH1	2.36	0.40
1:A:642:VAL:HG22	1:A:651:ILE:HG22	2.03	0.40
1:A:775:ASP:HB3	1:A:864:LEU:HD13	2.03	0.40
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.91	0.40
1:C:802:PHE:HB3	1:C:806:LEU:HD23	2.03	0.40
1:C:983:ARG:HB2	1:C:984:LEU:HD12	2.03	0.40
1:A:295:PRO:O	1:A:299:THR:HG23	2.21	0.40
1:A:896:ILE:HD12	1:C:712:ILE:HD11	2.03	0.40
1:A:347:PHE:HB2	1:A:401:VAL:HG23	2.02	0.40
1:A:740:MET:HE2	1:C:592:PHE:CE2	2.56	0.40
1:B:993:ILE:O	1:B:997:ILE:HG12	2.21	0.40
1:B:1090:PRO:HD3	1:B:1095:PHE:HE2	1.87	0.40
1:C:195:LYS:HD2	1:C:196:ASN:H	1.85	0.40
1:C:697:MET:HB3	1:C:697:MET:HE3	1.84	0.40
1:C:886:TRP:HH2	1:C:904:TYR:HB3	1.86	0.40
1:C:947:LYS:HE2	1:C:947:LYS:HB2	1.94	0.40
1:A:452:LEU:HD23	1:A:492:LEU:HB3	2.03	0.40
1:B:117:LEU:HD11	1:B:128:ILE:HG23	2.03	0.40
1:B:738:CYS:O	1:B:742:ILE:HG12	2.21	0.40
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.55	0.40
1:C:818:ILE:O	1:C:822:LEU:HG	2.21	0.40
1:C:889:GLY:HA3	1:C:1034:LEU:HD11	2.03	0.40
1:C:1004:LEU:O	1:C:1008:VAL:HG13	2.21	0.40
1:A:369:TYR:CE1	1:A:384:PRO:HB2	2.56	0.40
1:B:347:PHE:CE2	1:B:509:ARG:HD3	2.56	0.40
1:B:712:ILE:HG12	1:B:1094:VAL:HG11	2.03	0.40
1:C:409:GLN:HA	1:C:414:GLN:HG2	2.02	0.40
1:C:599:THR:HB	1:C:608:VAL:HG23	2.04	0.40
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	2.02	0.40
1:B:336:CYS:HB3	1:B:358:ILE:HD12	2.02	0.40
1:C:84:LEU:HD12	1:C:267:VAL:HG21	2.03	0.40
1:A:962:LEU:HD22	1:A:1007:TYR:CE2	2.56	0.40
1:B:303:LEU:HD23	1:B:308:VAL:HG22	2.03	0.40
1:B:733:LYS:HB3	1:B:861:LEU:HD23	2.03	0.40
1:C:1045:LYS:HD3	1:C:1045:LYS:HA	1.86	0.40
1:B:954:GLN:OE1	1:B:1014:ARG:NE	2.54	0.40
1:B:1106:GLN:HE22	1:B:1111:GLU:CD	2.27	0.40
1:C:223:LEU:HA	1:C:223:LEU:HD12	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:993:ILE:O	1:A:997:ILE:HG12	2.21	0.40
1:A:1080:ALA:HB3	1:A:1129:VAL:HG11	2.02	0.40
1:C:993:ILE:O	1:C:997:ILE:HG12	2.21	0.40
1:A:117:LEU:HD22	1:A:235:ILE:HD11	2.02	0.40
1:A:1128:VAL:HG21	1:B:918:GLU:HG3	2.03	0.40
1:B:406:GLU:OE1	1:B:406:GLU:N	2.54	0.40
1:C:278:LYS:NZ	1:C:287:ASP:OD2	2.52	0.40
1:A:126:VAL:HB	1:A:172:SER:HB3	2.03	0.40
1:A:594:GLY:H	1:A:613:GLN:HE21	1.69	0.40
1:A:1033:VAL:HG11	1:A:1053:PRO:HG3	2.03	0.40
1:B:1052:PHE:HA	1:B:1053:PRO:HD3	1.95	0.40
1:B:330:PRO:HD3	1:B:579:PRO:HB2	2.03	0.40
1:B:713:ALA:HB2	1:C:895:GLN:NE2	2.36	0.40
1:C:87:ASN:OD1	1:C:87:ASN:N	2.49	0.40
1:C:398:ASP:OD2	1:C:423:TYR:OH	2.29	0.40
1:C:412:PRO:HG3	1:C:429:PHE:HD2	1.86	0.40
1:B:426:PRO:HD3	1:B:463:PRO:HB3	2.02	0.40
1:C:34:ARG:NH2	1:C:221:SER:H	2.19	0.40
1:C:199:GLY:HA2	1:C:232:GLY:HA2	2.03	0.40
1:C:722:VAL:HG22	1:C:930:ALA:HB1	2.03	0.40
1:C:106:PHE:HB2	1:C:117:LEU:HB3	2.01	0.40
1:A:645:THR:OG1	1:A:648:GLY:O	2.33	0.40
1:A:734:THR:O	1:A:767:LEU:HD12	2.21	0.40
1:A:1115:ILE:HG22	1:A:1137:VAL:HG13	2.03	0.40
1:B:314:GLN:HA	1:B:314:GLN:NE2	2.36	0.40
1:B:866:THR:HG22	1:B:869:MET:HE3	2.03	0.40
1:C:1083:HIS:HE1	1:C:1136:THR:HG23	1.87	0.40
1:A:328:ARG:HD2	1:A:533:LEU:HB2	2.01	0.40
1:A:813:SER:OG	1:A:868:GLU:OE2	2.26	0.40
1:B:54:LEU:HB3	1:B:270:LEU:HB3	2.02	0.40
1:B:436:TRP:CE3	1:B:509:ARG:HD2	2.57	0.40
1:C:994:ASP:O	1:C:998:THR:HG23	2.21	0.40
1:A:43:PHE:CG	1:C:563:GLN:HG2	2.56	0.40
1:A:233:ILE:HG13	1:A:234:ASN:N	2.36	0.40
1:A:730:SER:OG	1:A:731:MET:N	2.53	0.40
1:A:993:ILE:O	1:A:997:ILE:HG12	2.22	0.40
1:B:720:ILE:HD11	1:B:1065:VAL:HG12	2.02	0.40
1:B:867:ASP:OD1	1:B:867:ASP:N	2.55	0.40
1:C:884:SER:OG	1:C:894:LEU:O	2.39	0.40
1:B:870:ILE:O	1:B:874:THR:HG23	2.21	0.40
1:A:549:THR:HG22	1:B:745:ASP:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:730:SER:OG	1:C:731:MET:N	2.55	0.40
1:A:353:TRP:NE1	1:A:466:ARG:HB2	2.31	0.40
1:A:916:LEU:HD22	1:A:917:TYR:CD1	2.56	0.40
1:B:52:GLN:HE22	1:B:273:ARG:N	2.19	0.40
1:C:358:ILE:HB	1:C:395:VAL:HG23	2.01	0.40
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.22	0.40
1:A:1090:PRO:HD3	1:A:1095:PHE:HE2	1.86	0.40
1:B:800:PHE:HD1	1:B:927:PHE:HD2	1.69	0.40
1:B:884:SER:OG	1:B:894:LEU:O	2.39	0.40
1:C:909:ILE:HA	1:C:1038:LYS:HZ1	1.86	0.40
1:A:572:THR:HG22	1:B:976:VAL:HG23	2.03	0.40
1:A:613:GLN:C	1:A:613:GLN:NE2	2.79	0.40
1:B:273:ARG:HD3	1:B:273:ARG:HA	1.88	0.40
1:B:273:ARG:HD2	1:B:292:ALA:HB3	2.04	0.40
1:B:909:ILE:HD11	1:B:1047:TYR:CD1	2.57	0.40
1:C:814:LYS:HA	1:C:814:LYS:HD3	1.86	0.40
1:B:49:HIS:HE1	1:B:51:THR:HB	1.86	0.40
1:B:280:ASN:OD1	1:B:284:THR:N	2.53	0.40
1:C:537:LYS:HE3	1:C:537:LYS:HB2	1.94	0.40
1:A:497:PHE:CE1	1:A:507:PRO:HB3	2.56	0.40
1:B:326:ILE:HD13	1:B:533:LEU:HD12	2.04	0.40
1:B:713:ALA:HB2	1:C:895:GLN:CD	2.46	0.40
1:C:730:SER:OG	1:C:731:MET:N	2.55	0.40
1:C:498:GLN:HE21	1:C:501:TYR:HD2	1.68	0.40
1:C:742:ILE:HD12	1:C:742:ILE:HA	1.81	0.40
1:B:497:PHE:CE2	1:B:507:PRO:HB3	2.56	0.40
1:C:970:PHE:HD2	1:C:996:LEU:HD13	1.86	0.40
1:A:369:TYR:OH	1:C:415:THR:OG1	2.23	0.40
1:B:431:GLY:HA2	1:B:515:PHE:CE2	2.56	0.40
1:B:452:LEU:HA	1:B:494:SER:HA	2.03	0.40
1:A:1105:THR:HG21	1:A:1110:TYR:HA	2.03	0.40
1:B:212:LEU:HD13	1:B:217:PRO:HG3	2.04	0.40
1:C:1083:HIS:HE1	1:C:1136:THR:HG23	1.86	0.40
1:A:905:ARG:NE	1:A:1049:LEU:O	2.53	0.40
1:B:954:GLN:OE1	1:B:1014:ARG:NH1	2.54	0.40
1:C:738:CYS:O	1:C:742:ILE:HB	2.21	0.40
1:A:983:ARG:NH2	1:C:517:LEU:HD11	2.36	0.40
1:B:559:PHE:HB3	1:B:563:GLN:HB2	2.02	0.40
1:B:598:ILE:HD11	1:B:611:LEU:HD23	2.03	0.40
1:B:751:ASN:HA	1:B:754:LEU:HG	2.02	0.40
1:A:1046:GLY:HA2	1:B:890:ALA:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:290:ASP:HB3	1:C:293:LEU:HB2	2.03	0.40
1:A:819:GLU:HA	1:A:822:LEU:HG	2.03	0.40
1:B:350:VAL:HG11	1:B:418:ILE:HD11	2.03	0.40
1:B:569:ILE:H	1:B:569:ILE:HG13	1.59	0.40
1:B:323:THR:HB	1:B:537:LYS:HZ3	1.86	0.40
1:A:642:VAL:HG13	1:A:651:ILE:HG22	2.03	0.40
1:A:712:ILE:HG23	1:A:1075:PHE:HB2	2.02	0.40
1:A:895:GLN:OE1	1:C:711:SER:OG	2.28	0.40
1:B:642:VAL:HG22	1:B:651:ILE:HG22	2.04	0.40
1:B:21:ARG:HG3	1:B:79:PHE:HD2	1.86	0.40
1:C:14:GLN:HA	1:C:138:ASP:HB2	2.04	0.40
1:C:207:HIS:O	1:C:207:HIS:ND1	2.54	0.40
1:C:370:ASN:HD22	1:C:384:PRO:HD2	1.86	0.40
1:C:452:LEU:HB3	1:C:492:LEU:HD11	2.03	0.40
1:A:390:LEU:HD12	1:A:391:CYS:H	1.85	0.40
1:A:884:SER:OG	1:A:887:THR:OG1	2.30	0.40
1:C:887:THR:HG21	1:C:894:LEU:HB2	2.02	0.40
1:A:189:LEU:HD12	1:A:217:PRO:HG2	2.03	0.40
1:B:295:PRO:O	1:B:299:THR:HG23	2.21	0.40
1:B:406:GLU:N	1:B:406:GLU:OE1	2.55	0.40
1:B:763:LEU:O	1:B:767:LEU:HD22	2.21	0.40
1:C:431:GLY:HA2	1:C:515:PHE:CE2	2.55	0.40
1:C:858:LEU:HD13	1:C:959:LEU:HD12	2.02	0.40
1:C:906:PHE:CD1	1:C:916:LEU:HB2	2.56	0.40
1:B:884:SER:OG	1:B:887:THR:OG1	2.25	0.40
1:C:43:PHE:CE1	1:C:283:GLY:HA3	2.57	0.40
1:C:770:ILE:HA	1:C:773:GLU:HG3	2.03	0.40
1:A:1028:LYS:HE2	1:A:1028:LYS:HB2	1.81	0.40
1:C:52:GLN:HE22	1:C:273:ARG:N	2.19	0.40
1:C:303:LEU:HD21	1:C:313:TYR:CE2	2.57	0.40
1:A:425:LEU:HD13	1:A:426:PRO:HD2	2.03	0.40
1:B:431:GLY:HA2	1:B:515:PHE:CZ	2.56	0.40
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.89	0.40
1:C:407:VAL:O	1:C:410:ILE:HG22	2.21	0.40
1:C:720:ILE:HD11	1:C:1065:VAL:HG12	2.03	0.40
1:B:99:ASN:HB3	1:B:102:ARG:CZ	2.51	0.40
1:B:802:PHE:HB3	1:B:806:LEU:HD23	2.04	0.40
1:B:962:LEU:HD12	1:B:962:LEU:HA	1.86	0.40
1:C:332:ILE:HG13	1:C:362:VAL:HG22	2.03	0.40
1:A:597:VAL:HG13	1:A:608:VAL:HG13	2.03	0.40
1:B:37:TYR:OH	1:B:54:LEU:O	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:741:TYR:CE1	1:C:962:LEU:HD12	2.56	0.40
1:C:960:ASN:OD1	1:C:964:LYS:NZ	2.51	0.40
1:A:730:SER:OG	1:A:731:MET:N	2.52	0.40
1:B:406:GLU:N	1:B:406:GLU:OE1	2.54	0.40
1:A:42:VAL:HG12	1:C:567:ARG:NH2	2.37	0.40
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.86	0.40
1:B:280:ASN:OD1	1:B:284:THR:N	2.53	0.40
1:B:676:THR:HA	1:B:690:GLN:HG2	2.02	0.40
1:B:1110:TYR:CZ	1:B:1112:PRO:HG3	2.56	0.40
1:C:878:LEU:HD12	1:C:878:LEU:HA	1.88	0.40
1:A:331:ASN:OD1	1:A:331:ASN:N	2.44	0.40
1:A:1045:LYS:HD3	1:A:1045:LYS:HA	1.83	0.40
1:B:44:ARG:HB2	1:B:279:TYR:CD2	2.57	0.40
1:B:133:PHE:HD1	1:B:160:TYR:HB3	1.86	0.40
1:C:869:MET:HE2	1:C:869:MET:HB3	1.99	0.40
1:B:195:LYS:HD2	1:B:202:LYS:HD3	2.03	0.40
1:B:962:LEU:HD12	1:B:962:LEU:HA	1.95	0.40
1:C:110:LEU:HD22	1:C:135:PHE:HE1	1.86	0.40
1:A:805:ILE:HG13	1:A:1054:GLN:NE2	2.36	0.40
1:B:462:LYS:H	1:B:462:LYS:HE2	1.86	0.40
1:C:1083:HIS:HE1	1:C:1136:THR:HG23	1.87	0.40
1:C:406:GLU:OE1	1:C:406:GLU:N	2.54	0.40
1:A:291:CYS:HB3	1:A:301:CYS:HB2	1.35	0.40
1:A:650:LEU:HD12	1:A:650:LEU:HA	1.95	0.40
1:A:1081:ILE:HD11	1:A:1135:ASN:HB3	2.02	0.40
1:C:295:PRO:O	1:C:299:THR:HG23	2.22	0.40
1:A:278:LYS:HB2	1:A:306:PHE:CE2	2.56	0.40
1:A:454:ARG:HD3	1:A:457:ARG:HD3	2.03	0.40
1:B:278:LYS:HB2	1:B:306:PHE:CZ	2.57	0.40
1:C:295:PRO:O	1:C:299:THR:HG23	2.21	0.40
1:A:683:CYS:SG	1:A:697:MET:HE3	2.61	0.40
1:B:598:ILE:HB	1:B:609:ALA:HB3	2.02	0.40
1:B:742:ILE:HD13	1:B:742:ILE:HA	1.95	0.40
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.40
1:B:596:SER:O	1:B:611:LEU:N	2.41	0.40
1:C:1004:LEU:O	1:C:1008:VAL:HG13	2.21	0.40
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	2.03	0.40
1:A:54:LEU:HD23	1:A:197:ILE:HD11	2.02	0.40
1:C:1031:GLU:OE2	1:C:1039:ARG:NH2	2.55	0.40
1:C:106:PHE:O	1:C:117:LEU:N	2.40	0.40
1:C:131:CYS:HB2	1:C:133:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:570:ALA:O	1:C:966:LEU:HD23	2.21	0.40
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	2.03	0.40
1:A:462:LYS:HE2	1:A:462:LYS:H	1.85	0.40
1:A:993:ILE:O	1:A:997:ILE:HG12	2.21	0.40
1:A:712:ILE:HA	1:A:712:ILE:HD13	1.78	0.40
1:A:802:PHE:HE2	1:A:927:PHE:HE2	1.70	0.40
1:B:200:TYR:HA	1:B:230:PRO:HA	2.03	0.40
1:B:462:LYS:H	1:B:462:LYS:HE2	1.87	0.40
1:A:978:ASN:HA	1:A:981:LEU:HG	2.04	0.40
1:B:439:ASN:OD1	1:B:440:ASN:N	2.53	0.40
1:B:735:SER:HB2	1:B:861:LEU:HD21	2.03	0.40
1:B:108:THR:OG1	1:B:234:ASN:O	2.39	0.40
1:B:759:PHE:CD1	1:B:1001:LEU:HD11	2.56	0.40
1:C:717:ASN:OD1	1:C:718:PHE:N	2.51	0.40
1:C:950:ASP:O	1:C:954:GLN:HG2	2.21	0.40
1:A:229:LEU:HG	1:A:231:ILE:HG12	2.04	0.40
1:B:332:ILE:HG13	1:B:362:VAL:HG22	2.02	0.40
1:C:882:ILE:HD12	1:C:882:ILE:HA	1.86	0.40
1:A:403:ARG:HG2	1:A:497:PHE:HE1	1.85	0.40
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.56	0.40
1:B:321:GLN:OE1	1:B:321:GLN:N	2.53	0.40
1:B:874:THR:O	1:B:878:LEU:HD23	2.21	0.40
1:C:337:PRO:HD3	1:C:358:ILE:HD12	2.02	0.40
1:A:389:ASP:HA	1:A:528:LYS:HE3	2.03	0.40
1:B:388:ASN:OD1	1:B:388:ASN:O	2.39	0.40
1:B:429:PHE:HE2	1:B:514:SER:HA	1.86	0.40
1:B:513:LEU:HA	1:B:513:LEU:HD12	1.84	0.40
1:B:973:ILE:HD12	1:B:973:ILE:HG23	1.86	0.40
1:A:189:LEU:HB3	1:A:208:THR:HB	2.04	0.40
1:A:547:THR:O	1:B:978:ASN:ND2	2.54	0.40
1:A:759:PHE:HA	1:A:762:GLN:HE21	1.85	0.40
1:B:326:ILE:HD13	1:B:533:LEU:HD12	2.04	0.40
1:B:439:ASN:OD1	1:B:440:ASN:N	2.53	0.40
1:C:106:PHE:O	1:C:117:LEU:N	2.44	0.40
1:A:58:PHE:CD2	1:A:290:ASP:HB2	2.56	0.40
1:B:408:ARG:HH12	1:C:376:THR:HA	1.87	0.40
1:B:415:THR:HG21	1:C:384:PRO:HG2	2.04	0.40
1:C:195:LYS:HG3	1:C:197:ILE:HG22	2.04	0.40
1:A:1094:VAL:N	1:A:1105:THR:O	2.43	0.40
1:C:303:LEU:HD12	1:C:308:VAL:HG12	2.04	0.40
1:A:114:THR:HG22	1:C:469:SER:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:873:TYR:O	1:B:877:LEU:HB2	2.22	0.40
1:B:1090:PRO:HD3	1:B:1095:PHE:HE2	1.87	0.40
1:C:22:THR:OG1	1:C:78:ARG:NH1	2.52	0.40
1:A:862:PRO:HA	1:A:863:PRO:HD3	1.97	0.40
1:B:194:PHE:HB3	1:B:201:PHE:HE1	1.86	0.40
1:B:503:VAL:HA	1:B:506:GLN:HG3	2.02	0.40
1:B:1002:GLN:O	1:B:1006:THR:HG23	2.21	0.40
1:C:955:ASN:HD22	1:C:955:ASN:HA	1.64	0.40
1:A:80:ALA:O	1:A:245:HIS:NE2	2.55	0.40
1:A:867:ASP:OD1	1:A:867:ASP:N	2.54	0.40
1:B:276:LEU:HD23	1:B:289:VAL:HB	2.04	0.40
1:C:34:ARG:NH2	1:C:221:SER:H	2.19	0.40
1:C:738:CYS:HB3	1:C:760:CYS:HB2	1.67	0.40
1:B:915:VAL:O	1:B:919:ASN:HB2	2.22	0.40
1:C:989:ALA:O	1:C:993:ILE:HG12	2.21	0.40
1:A:58:PHE:HB2	1:A:293:LEU:HD21	2.04	0.40
1:C:33:THR:HB	1:C:220:PHE:HD1	1.86	0.40
1:C:92:PHE:HE1	1:C:265:TYR:HB2	1.86	0.40
1:C:96:GLU:HG2	1:C:99:ASN:HA	2.03	0.40
1:C:106:PHE:O	1:C:117:LEU:N	2.54	0.40
1:C:131:CYS:HB2	1:C:133:PHE:CE1	2.56	0.40
1:B:742:ILE:HD13	1:B:742:ILE:HA	1.93	0.40
1:B:756:TYR:HE2	1:B:997:ILE:HD12	1.86	0.40
1:C:58:PHE:CD2	1:C:290:ASP:HB2	2.56	0.40
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.90	0.40
1:C:936:ASP:O	1:C:940:SER:OG	2.32	0.40
1:B:204:TYR:CE2	1:B:225:PRO:HG3	2.57	0.40
1:C:537:LYS:HE3	1:C:537:LYS:HB3	1.89	0.40
1:C:97:LYS:HD2	1:C:97:LYS:HA	1.86	0.40
1:A:431:GLY:HA2	1:A:515:PHE:CE2	2.56	0.40
1:B:730:SER:OG	1:B:731:MET:N	2.53	0.40
1:B:738:CYS:O	1:B:742:ILE:HB	2.21	0.40
1:C:606:ASN:C	1:C:606:ASN:ND2	2.77	0.40
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.22	0.40
1:A:676:THR:HA	1:A:690:GLN:HG2	2.02	0.40
1:A:969:ASN:OD1	1:B:755:GLN:NE2	2.54	0.40
1:A:1102:TRP:HD1	1:A:1135:ASN:HD22	1.70	0.40
1:B:954:GLN:HG3	1:B:1014:ARG:NE	2.37	0.40
1:A:106:PHE:HD2	1:A:117:LEU:HD22	1.85	0.40
1:A:546:LEU:HD21	1:A:573:THR:HG21	2.03	0.40
1:A:278:LYS:HD2	1:A:306:PHE:CE2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:551:VAL:HG12	1:B:553:THR:HG23	2.03	0.40
1:C:379:CYS:HA	1:C:432:CYS:HA	2.03	0.40
1:B:339:GLY:O	1:B:343:ASN:HB2	2.21	0.40
1:B:342:PHE:HE1	1:B:511:VAL:HG11	1.85	0.40
1:B:725:GLU:HG3	1:B:1064:HIS:CD2	2.56	0.40
1:B:726:ILE:HG22	1:B:1061:VAL:HG22	2.04	0.40
1:C:106:PHE:CD1	1:C:117:LEU:HD23	2.56	0.40
1:A:206:LYS:HD3	1:A:224:GLU:H	1.86	0.40
1:A:733:LYS:HB3	1:A:861:LEU:HD23	2.04	0.40
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.21	0.40
1:B:97:LYS:HD2	1:B:97:LYS:HA	1.81	0.40
1:C:332:ILE:HG13	1:C:362:VAL:HG22	2.03	0.40
1:C:738:CYS:SG	1:C:739:THR:N	2.94	0.40
1:C:866:THR:O	1:C:870:ILE:HG12	2.22	0.40
1:C:1033:VAL:HG21	1:C:1053:PRO:HG3	2.04	0.40
1:A:563:GLN:HG2	1:B:43:PHE:CD1	2.55	0.40
1:C:719:THR:HG23	1:C:1070:ALA:HB2	2.03	0.40
1:A:206:LYS:HD2	1:A:223:LEU:HA	2.03	0.40
1:A:1105:THR:HG21	1:A:1110:TYR:HA	2.04	0.40
1:B:574:ASP:OD1	1:B:574:ASP:N	2.46	0.40
1:B:592:PHE:HZ	1:C:740:MET:HE2	1.86	0.40
1:B:862:PRO:HA	1:B:863:PRO:HD3	2.00	0.40
1:C:295:PRO:O	1:C:299:THR:HG23	2.22	0.40
1:C:342:PHE:HE2	1:C:511:VAL:HG11	1.86	0.40
1:B:389:ASP:HA	1:B:528:LYS:HE3	2.04	0.40
1:C:983:ARG:HE	1:C:983:ARG:HB2	1.54	0.40
1:A:309:GLU:OE2	1:A:309:GLU:N	2.55	0.40
1:B:196:ASN:OD1	1:B:196:ASN:N	2.54	0.40
1:C:369:TYR:CZ	1:C:384:PRO:HB2	2.56	0.40
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.21	0.40
1:B:365:TYR:HE2	1:B:387:LEU:HD12	1.87	0.40
1:B:993:ILE:O	1:B:997:ILE:HG12	2.22	0.40
1:C:143:VAL:HG13	1:C:154:GLU:HA	2.03	0.40
1:C:332:ILE:HG13	1:C:362:VAL:HG22	2.03	0.40
1:C:402:ILE:HD11	1:C:418:ILE:HG13	2.02	0.40
1:C:405:ASP:N	1:C:405:ASP:OD1	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	1-A	1067/1230 (87%)	1024 (96%)	42 (4%)	1 (0%)	48	77
1	1-B	1067/1230 (87%)	1020 (96%)	47 (4%)	0	100	100
1	1-C	1067/1230 (87%)	1011 (95%)	54 (5%)	2 (0%)	44	73
1	2-A	1067/1230 (87%)	1025 (96%)	41 (4%)	1 (0%)	48	77
1	2-B	1067/1230 (87%)	1019 (96%)	47 (4%)	1 (0%)	48	77
1	2-C	1067/1230 (87%)	1013 (95%)	53 (5%)	1 (0%)	48	77
1	3-A	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	3-B	1073/1230 (87%)	1033 (96%)	39 (4%)	1 (0%)	48	77
1	3-C	1073/1230 (87%)	1035 (96%)	37 (3%)	1 (0%)	48	77
1	4-A	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	4-B	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	4-C	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	5-A	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	5-B	1073/1230 (87%)	1033 (96%)	39 (4%)	1 (0%)	48	77
1	5-C	1073/1230 (87%)	1036 (97%)	36 (3%)	1 (0%)	48	77
1	6-A	1073/1230 (87%)	1036 (97%)	36 (3%)	1 (0%)	48	77
1	6-B	1073/1230 (87%)	1035 (96%)	37 (3%)	1 (0%)	48	77
1	6-C	1073/1230 (87%)	1039 (97%)	33 (3%)	1 (0%)	48	77
1	7-A	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	7-B	1073/1230 (87%)	1036 (97%)	36 (3%)	1 (0%)	48	77
1	7-C	1073/1230 (87%)	1034 (96%)	38 (4%)	1 (0%)	48	77
1	8-A	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	8-B	1073/1230 (87%)	1035 (96%)	37 (3%)	1 (0%)	48	77
1	8-C	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	9-A	1067/1230 (87%)	1023 (96%)	43 (4%)	1 (0%)	48	77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	9-B	1067/1230 (87%)	1022 (96%)	45 (4%)	0	100	100
1	9-C	1067/1230 (87%)	1016 (95%)	49 (5%)	2 (0%)	44	73
1	10-A	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	10-B	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	10-C	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	11-A	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	11-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	11-C	1067/1230 (87%)	1013 (95%)	51 (5%)	3 (0%)	37	67
1	12-A	1073/1230 (87%)	1039 (97%)	33 (3%)	1 (0%)	48	77
1	12-B	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	12-C	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	13-A	1073/1230 (87%)	1040 (97%)	32 (3%)	1 (0%)	48	77
1	13-B	1073/1230 (87%)	1036 (97%)	36 (3%)	1 (0%)	48	77
1	13-C	1073/1230 (87%)	1036 (97%)	36 (3%)	1 (0%)	48	77
1	14-A	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	14-B	1073/1230 (87%)	1036 (97%)	36 (3%)	1 (0%)	48	77
1	14-C	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	15-A	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	15-B	1073/1230 (87%)	1039 (97%)	33 (3%)	1 (0%)	48	77
1	15-C	1073/1230 (87%)	1036 (97%)	36 (3%)	1 (0%)	48	77
1	16-A	1073/1230 (87%)	1036 (97%)	36 (3%)	1 (0%)	48	77
1	16-B	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	16-C	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	17-A	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	17-B	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	17-C	1073/1230 (87%)	1032 (96%)	38 (4%)	3 (0%)	37	67
1	18-A	1073/1230 (87%)	1035 (96%)	37 (3%)	1 (0%)	48	77
1	18-B	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77
1	18-C	1073/1230 (87%)	1040 (97%)	32 (3%)	1 (0%)	48	77
1	19-A	1073/1230 (87%)	1040 (97%)	32 (3%)	1 (0%)	48	77
1	19-B	1073/1230 (87%)	1037 (97%)	35 (3%)	1 (0%)	48	77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	19-C	1073/1230 (87%)	1038 (97%)	33 (3%)	2 (0%)	44	73
1	20-A	1073/1230 (87%)	1038 (97%)	34 (3%)	1 (0%)	48	77
1	20-B	1073/1230 (87%)	1035 (96%)	37 (3%)	1 (0%)	48	77
1	20-C	1073/1230 (87%)	1040 (97%)	32 (3%)	1 (0%)	48	77
All	All	64308/73800 (87%)	62001 (96%)	2243 (4%)	64 (0%)	50	77

All (64) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	11-C	319	ARG
1	1-C	590	CYS
1	17-C	445	VAL
1	19-C	385	THR
1	2-A	544	ASN
1	1-A	544	ASN
1	1-C	532	ASN
1	2-C	532	ASN
1	9-A	544	ASN
1	9-C	532	ASN
1	11-A	544	ASN
1	11-C	532	ASN
1	13-A	987	PRO
1	20-A	987	PRO
1	3-A	987	PRO
1	3-B	987	PRO
1	3-C	987	PRO
1	4-A	987	PRO
1	4-B	987	PRO
1	4-C	987	PRO
1	5-A	987	PRO
1	5-B	987	PRO
1	5-C	987	PRO
1	6-A	987	PRO
1	6-B	987	PRO
1	6-C	987	PRO
1	7-A	987	PRO
1	7-B	987	PRO
1	7-C	987	PRO
1	8-B	987	PRO
1	8-C	987	PRO
1	10-A	987	PRO

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Mol	Chain	Res	Type
1	10-B	987	PRO
1	10-C	987	PRO
1	12-A	987	PRO
1	12-B	987	PRO
1	12-C	987	PRO
1	13-B	987	PRO
1	13-C	987	PRO
1	14-A	987	PRO
1	14-B	987	PRO
1	14-C	987	PRO
1	15-A	987	PRO
1	15-B	987	PRO
1	15-C	987	PRO
1	16-B	987	PRO
1	16-C	987	PRO
1	17-A	987	PRO
1	17-B	987	PRO
1	17-C	440	ASN
1	17-C	987	PRO
1	18-A	987	PRO
1	18-B	987	PRO
1	18-C	987	PRO
1	19-A	987	PRO
1	19-B	987	PRO
1	19-C	987	PRO
1	20-B	987	PRO
1	20-C	987	PRO
1	2-B	150	LYS
1	8-A	987	PRO
1	9-C	150	LYS
1	11-C	150	LYS
1	16-A	987	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	1-A	944/1067 (88%)	934 (99%)	10 (1%)	70	90
1	1-B	944/1067 (88%)	934 (99%)	10 (1%)	70	90
1	1-C	944/1067 (88%)	935 (99%)	9 (1%)	73	91
1	2-A	944/1067 (88%)	934 (99%)	10 (1%)	70	90
1	2-B	944/1067 (88%)	934 (99%)	10 (1%)	70	90
1	2-C	944/1067 (88%)	935 (99%)	9 (1%)	73	91
1	3-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	3-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	3-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	4-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	4-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	4-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	5-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	5-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	5-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	6-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	6-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	6-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	7-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	7-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	7-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	8-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	8-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	8-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	9-A	944/1067 (88%)	934 (99%)	10 (1%)	70	90
1	9-B	944/1067 (88%)	934 (99%)	10 (1%)	70	90
1	9-C	944/1067 (88%)	935 (99%)	9 (1%)	73	91
1	10-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	10-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	10-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	11-A	944/1067 (88%)	934 (99%)	10 (1%)	70	90
1	11-B	944/1067 (88%)	934 (99%)	10 (1%)	70	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	11-C	944/1067 (88%)	935 (99%)	9 (1%)	73	91
1	12-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	12-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	12-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	13-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	13-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	13-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	14-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	14-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	14-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	15-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	15-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	15-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	16-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	16-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	16-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	17-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	17-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	17-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	18-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	18-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	18-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	19-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	19-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	19-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
1	20-A	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	20-B	949/1067 (89%)	939 (99%)	10 (1%)	70	90
1	20-C	949/1067 (89%)	940 (99%)	9 (1%)	75	92
All	All	56880/64020 (89%)	56300 (99%)	580 (1%)	71	91

All (580) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1-A	95	THR
1	1-A	315	THR
1	1-A	703	ASN
1	1-A	727	LEU
1	1-A	765	ARG
1	1-A	878	LEU
1	1-A	916	LEU
1	1-A	965	GLN
1	1-A	1010	GLN
1	1-A	1018	ILE
1	1-B	104	TRP
1	1-B	314	GLN
1	1-B	569	ILE
1	1-B	775	ASP
1	1-B	796	ASP
1	1-B	861	LEU
1	1-B	901	GLN
1	1-B	914	ASN
1	1-B	945	LEU
1	1-B	1138	TYR
1	1-C	223	LEU
1	1-C	650	LEU
1	1-C	753	LEU
1	1-C	762	GLN
1	1-C	774	GLN
1	1-C	775	ASP
1	1-C	861	LEU
1	1-C	1005	GLN
1	1-C	1129	VAL
1	2-A	95	THR
1	2-A	315	THR
1	2-A	703	ASN
1	2-A	727	LEU
1	2-A	765	ARG
1	2-A	878	LEU
1	2-A	916	LEU
1	2-A	965	GLN
1	2-A	1010	GLN
1	2-A	1018	ILE
1	2-B	104	TRP
1	2-B	314	GLN
1	2-B	569	ILE
1	2-B	775	ASP

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Mol	Chain	Res	Type
1	2-B	796	ASP
1	2-B	861	LEU
1	2-B	901	GLN
1	2-B	914	ASN
1	2-B	945	LEU
1	2-B	1138	TYR
1	2-C	223	LEU
1	2-C	650	LEU
1	2-C	753	LEU
1	2-C	762	GLN
1	2-C	774	GLN
1	2-C	775	ASP
1	2-C	861	LEU
1	2-C	1005	GLN
1	2-C	1129	VAL
1	3-A	95	THR
1	3-A	315	THR
1	3-A	703	ASN
1	3-A	727	LEU
1	3-A	765	ARG
1	3-A	878	LEU
1	3-A	916	LEU
1	3-A	965	GLN
1	3-A	1010	GLN
1	3-A	1018	ILE
1	3-B	104	TRP
1	3-B	314	GLN
1	3-B	569	ILE
1	3-B	775	ASP
1	3-B	796	ASP
1	3-B	861	LEU
1	3-B	901	GLN
1	3-B	914	ASN
1	3-B	945	LEU
1	3-B	1138	TYR
1	3-C	223	LEU
1	3-C	650	LEU
1	3-C	753	LEU
1	3-C	762	GLN
1	3-C	774	GLN
1	3-C	775	ASP
1	3-C	861	LEU

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Mol	Chain	Res	Type
1	3-C	1005	GLN
1	3-C	1129	VAL
1	4-A	95	THR
1	4-A	315	THR
1	4-A	703	ASN
1	4-A	727	LEU
1	4-A	765	ARG
1	4-A	878	LEU
1	4-A	916	LEU
1	4-A	965	GLN
1	4-A	1010	GLN
1	4-A	1018	ILE
1	4-B	104	TRP
1	4-B	314	GLN
1	4-B	569	ILE
1	4-B	775	ASP
1	4-B	796	ASP
1	4-B	861	LEU
1	4-B	901	GLN
1	4-B	914	ASN
1	4-B	945	LEU
1	4-B	1138	TYR
1	4-C	223	LEU
1	4-C	650	LEU
1	4-C	753	LEU
1	4-C	762	GLN
1	4-C	774	GLN
1	4-C	775	ASP
1	4-C	861	LEU
1	4-C	1005	GLN
1	4-C	1129	VAL
1	5-A	95	THR
1	5-A	315	THR
1	5-A	703	ASN
1	5-A	727	LEU
1	5-A	765	ARG
1	5-A	878	LEU
1	5-A	916	LEU
1	5-A	965	GLN
1	5-A	1010	GLN
1	5-A	1018	ILE
1	5-B	104	TRP

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Mol	Chain	Res	Type
1	5-B	314	GLN
1	5-B	569	ILE
1	5-B	775	ASP
1	5-B	796	ASP
1	5-B	861	LEU
1	5-B	901	GLN
1	5-B	914	ASN
1	5-B	945	LEU
1	5-B	1138	TYR
1	5-C	223	LEU
1	5-C	650	LEU
1	5-C	753	LEU
1	5-C	762	GLN
1	5-C	774	GLN
1	5-C	775	ASP
1	5-C	861	LEU
1	5-C	1005	GLN
1	5-C	1129	VAL
1	6-A	95	THR
1	6-A	315	THR
1	6-A	703	ASN
1	6-A	727	LEU
1	6-A	765	ARG
1	6-A	878	LEU
1	6-A	916	LEU
1	6-A	965	GLN
1	6-A	1010	GLN
1	6-A	1018	ILE
1	6-B	104	TRP
1	6-B	314	GLN
1	6-B	569	ILE
1	6-B	775	ASP
1	6-B	796	ASP
1	6-B	861	LEU
1	6-B	901	GLN
1	6-B	914	ASN
1	6-B	945	LEU
1	6-B	1138	TYR
1	6-C	223	LEU
1	6-C	650	LEU
1	6-C	753	LEU
1	6-C	762	GLN

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Mol	Chain	Res	Type
1	6-C	774	GLN
1	6-C	775	ASP
1	6-C	861	LEU
1	6-C	1005	GLN
1	6-C	1129	VAL
1	7-A	95	THR
1	7-A	315	THR
1	7-A	703	ASN
1	7-A	727	LEU
1	7-A	765	ARG
1	7-A	878	LEU
1	7-A	916	LEU
1	7-A	965	GLN
1	7-A	1010	GLN
1	7-A	1018	ILE
1	7-B	104	TRP
1	7-B	314	GLN
1	7-B	569	ILE
1	7-B	775	ASP
1	7-B	796	ASP
1	7-B	861	LEU
1	7-B	901	GLN
1	7-B	914	ASN
1	7-B	945	LEU
1	7-B	1138	TYR
1	7-C	223	LEU
1	7-C	650	LEU
1	7-C	753	LEU
1	7-C	762	GLN
1	7-C	774	GLN
1	7-C	775	ASP
1	7-C	861	LEU
1	7-C	1005	GLN
1	7-C	1129	VAL
1	8-A	95	THR
1	8-A	315	THR
1	8-A	703	ASN
1	8-A	727	LEU
1	8-A	765	ARG
1	8-A	878	LEU
1	8-A	916	LEU
1	8-A	965	GLN

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Mol	Chain	Res	Type
1	8-A	1010	GLN
1	8-A	1018	ILE
1	8-B	104	TRP
1	8-B	314	GLN
1	8-B	569	ILE
1	8-B	775	ASP
1	8-B	796	ASP
1	8-B	861	LEU
1	8-B	901	GLN
1	8-B	914	ASN
1	8-B	945	LEU
1	8-B	1138	TYR
1	8-C	223	LEU
1	8-C	650	LEU
1	8-C	753	LEU
1	8-C	762	GLN
1	8-C	774	GLN
1	8-C	775	ASP
1	8-C	861	LEU
1	8-C	1005	GLN
1	8-C	1129	VAL
1	9-A	95	THR
1	9-A	315	THR
1	9-A	703	ASN
1	9-A	727	LEU
1	9-A	765	ARG
1	9-A	878	LEU
1	9-A	916	LEU
1	9-A	965	GLN
1	9-A	1010	GLN
1	9-A	1018	ILE
1	9-B	104	TRP
1	9-B	314	GLN
1	9-B	569	ILE
1	9-B	775	ASP
1	9-B	796	ASP
1	9-B	861	LEU
1	9-B	901	GLN
1	9-B	914	ASN
1	9-B	945	LEU
1	9-B	1138	TYR
1	9-C	223	LEU

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Mol	Chain	Res	Type
1	9-C	650	LEU
1	9-C	753	LEU
1	9-C	762	GLN
1	9-C	774	GLN
1	9-C	775	ASP
1	9-C	861	LEU
1	9-C	1005	GLN
1	9-C	1129	VAL
1	10-A	95	THR
1	10-A	315	THR
1	10-A	703	ASN
1	10-A	727	LEU
1	10-A	765	ARG
1	10-A	878	LEU
1	10-A	916	LEU
1	10-A	965	GLN
1	10-A	1010	GLN
1	10-A	1018	ILE
1	10-B	104	TRP
1	10-B	314	GLN
1	10-B	569	ILE
1	10-B	775	ASP
1	10-B	796	ASP
1	10-B	861	LEU
1	10-B	901	GLN
1	10-B	914	ASN
1	10-B	945	LEU
1	10-B	1138	TYR
1	10-C	223	LEU
1	10-C	650	LEU
1	10-C	753	LEU
1	10-C	762	GLN
1	10-C	774	GLN
1	10-C	775	ASP
1	10-C	861	LEU
1	10-C	1005	GLN
1	10-C	1129	VAL
1	11-A	95	THR
1	11-A	315	THR
1	11-A	703	ASN
1	11-A	727	LEU
1	11-A	765	ARG

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Mol	Chain	Res	Type
1	11-A	878	LEU
1	11-A	916	LEU
1	11-A	965	GLN
1	11-A	1010	GLN
1	11-A	1018	ILE
1	11-B	104	TRP
1	11-B	314	GLN
1	11-B	569	ILE
1	11-B	775	ASP
1	11-B	796	ASP
1	11-B	861	LEU
1	11-B	901	GLN
1	11-B	914	ASN
1	11-B	945	LEU
1	11-B	1138	TYR
1	11-C	223	LEU
1	11-C	650	LEU
1	11-C	753	LEU
1	11-C	762	GLN
1	11-C	774	GLN
1	11-C	775	ASP
1	11-C	861	LEU
1	11-C	1005	GLN
1	11-C	1129	VAL
1	12-A	95	THR
1	12-A	315	THR
1	12-A	703	ASN
1	12-A	727	LEU
1	12-A	765	ARG
1	12-A	878	LEU
1	12-A	916	LEU
1	12-A	965	GLN
1	12-A	1010	GLN
1	12-A	1018	ILE
1	12-B	104	TRP
1	12-B	314	GLN
1	12-B	569	ILE
1	12-B	775	ASP
1	12-B	796	ASP
1	12-B	861	LEU
1	12-B	901	GLN
1	12-B	914	ASN

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Mol	Chain	Res	Type
1	12-B	945	LEU
1	12-B	1138	TYR
1	12-C	223	LEU
1	12-C	650	LEU
1	12-C	753	LEU
1	12-C	762	GLN
1	12-C	774	GLN
1	12-C	775	ASP
1	12-C	861	LEU
1	12-C	1005	GLN
1	12-C	1129	VAL
1	13-A	95	THR
1	13-A	315	THR
1	13-A	703	ASN
1	13-A	727	LEU
1	13-A	765	ARG
1	13-A	878	LEU
1	13-A	916	LEU
1	13-A	965	GLN
1	13-A	1010	GLN
1	13-A	1018	ILE
1	13-B	104	TRP
1	13-B	314	GLN
1	13-B	569	ILE
1	13-B	775	ASP
1	13-B	796	ASP
1	13-B	861	LEU
1	13-B	901	GLN
1	13-B	914	ASN
1	13-B	945	LEU
1	13-B	1138	TYR
1	13-C	223	LEU
1	13-C	650	LEU
1	13-C	753	LEU
1	13-C	762	GLN
1	13-C	774	GLN
1	13-C	775	ASP
1	13-C	861	LEU
1	13-C	1005	GLN
1	13-C	1129	VAL
1	14-A	95	THR
1	14-A	315	THR

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Mol	Chain	Res	Type
1	14-A	703	ASN
1	14-A	727	LEU
1	14-A	765	ARG
1	14-A	878	LEU
1	14-A	916	LEU
1	14-A	965	GLN
1	14-A	1010	GLN
1	14-A	1018	ILE
1	14-B	104	TRP
1	14-B	314	GLN
1	14-B	569	ILE
1	14-B	775	ASP
1	14-B	796	ASP
1	14-B	861	LEU
1	14-B	901	GLN
1	14-B	914	ASN
1	14-B	945	LEU
1	14-B	1138	TYR
1	14-C	223	LEU
1	14-C	650	LEU
1	14-C	753	LEU
1	14-C	762	GLN
1	14-C	774	GLN
1	14-C	775	ASP
1	14-C	861	LEU
1	14-C	1005	GLN
1	14-C	1129	VAL
1	15-A	95	THR
1	15-A	315	THR
1	15-A	703	ASN
1	15-A	727	LEU
1	15-A	765	ARG
1	15-A	878	LEU
1	15-A	916	LEU
1	15-A	965	GLN
1	15-A	1010	GLN
1	15-A	1018	ILE
1	15-B	104	TRP
1	15-B	314	GLN
1	15-B	569	ILE
1	15-B	775	ASP
1	15-B	796	ASP

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Mol	Chain	Res	Type
1	15-B	861	LEU
1	15-B	901	GLN
1	15-B	914	ASN
1	15-B	945	LEU
1	15-B	1138	TYR
1	15-C	223	LEU
1	15-C	650	LEU
1	15-C	753	LEU
1	15-C	762	GLN
1	15-C	774	GLN
1	15-C	775	ASP
1	15-C	861	LEU
1	15-C	1005	GLN
1	15-C	1129	VAL
1	16-A	95	THR
1	16-A	315	THR
1	16-A	703	ASN
1	16-A	727	LEU
1	16-A	765	ARG
1	16-A	878	LEU
1	16-A	916	LEU
1	16-A	965	GLN
1	16-A	1010	GLN
1	16-A	1018	ILE
1	16-B	104	TRP
1	16-B	314	GLN
1	16-B	569	ILE
1	16-B	775	ASP
1	16-B	796	ASP
1	16-B	861	LEU
1	16-B	901	GLN
1	16-B	914	ASN
1	16-B	945	LEU
1	16-B	1138	TYR
1	16-C	223	LEU
1	16-C	650	LEU
1	16-C	753	LEU
1	16-C	762	GLN
1	16-C	774	GLN
1	16-C	775	ASP
1	16-C	861	LEU
1	16-C	1005	GLN

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Mol	Chain	Res	Type
1	16-C	1129	VAL
1	17-A	95	THR
1	17-A	315	THR
1	17-A	703	ASN
1	17-A	727	LEU
1	17-A	765	ARG
1	17-A	878	LEU
1	17-A	916	LEU
1	17-A	965	GLN
1	17-A	1010	GLN
1	17-A	1018	ILE
1	17-B	104	TRP
1	17-B	314	GLN
1	17-B	569	ILE
1	17-B	775	ASP
1	17-B	796	ASP
1	17-B	861	LEU
1	17-B	901	GLN
1	17-B	914	ASN
1	17-B	945	LEU
1	17-B	1138	TYR
1	17-C	223	LEU
1	17-C	650	LEU
1	17-C	753	LEU
1	17-C	762	GLN
1	17-C	774	GLN
1	17-C	775	ASP
1	17-C	861	LEU
1	17-C	1005	GLN
1	17-C	1129	VAL
1	18-A	95	THR
1	18-A	315	THR
1	18-A	703	ASN
1	18-A	727	LEU
1	18-A	765	ARG
1	18-A	878	LEU
1	18-A	916	LEU
1	18-A	965	GLN
1	18-A	1010	GLN
1	18-A	1018	ILE
1	18-B	104	TRP
1	18-B	314	GLN

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Mol	Chain	Res	Type
1	18-B	569	ILE
1	18-B	775	ASP
1	18-B	796	ASP
1	18-B	861	LEU
1	18-B	901	GLN
1	18-B	914	ASN
1	18-B	945	LEU
1	18-B	1138	TYR
1	18-C	223	LEU
1	18-C	650	LEU
1	18-C	753	LEU
1	18-C	762	GLN
1	18-C	774	GLN
1	18-C	775	ASP
1	18-C	861	LEU
1	18-C	1005	GLN
1	18-C	1129	VAL
1	19-A	95	THR
1	19-A	315	THR
1	19-A	703	ASN
1	19-A	727	LEU
1	19-A	765	ARG
1	19-A	878	LEU
1	19-A	916	LEU
1	19-A	965	GLN
1	19-A	1010	GLN
1	19-A	1018	ILE
1	19-B	104	TRP
1	19-B	314	GLN
1	19-B	569	ILE
1	19-B	775	ASP
1	19-B	796	ASP
1	19-B	861	LEU
1	19-B	901	GLN
1	19-B	914	ASN
1	19-B	945	LEU
1	19-B	1138	TYR
1	19-C	223	LEU
1	19-C	650	LEU
1	19-C	753	LEU
1	19-C	762	GLN
1	19-C	774	GLN

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Mol	Chain	Res	Type
1	19-C	775	ASP
1	19-C	861	LEU
1	19-C	1005	GLN
1	19-C	1129	VAL
1	20-A	95	THR
1	20-A	315	THR
1	20-A	703	ASN
1	20-A	727	LEU
1	20-A	765	ARG
1	20-A	878	LEU
1	20-A	916	LEU
1	20-A	965	GLN
1	20-A	1010	GLN
1	20-A	1018	ILE
1	20-B	104	TRP
1	20-B	314	GLN
1	20-B	569	ILE
1	20-B	775	ASP
1	20-B	796	ASP
1	20-B	861	LEU
1	20-B	901	GLN
1	20-B	914	ASN
1	20-B	945	LEU
1	20-B	1138	TYR
1	20-C	223	LEU
1	20-C	650	LEU
1	20-C	753	LEU
1	20-C	762	GLN
1	20-C	774	GLN
1	20-C	775	ASP
1	20-C	861	LEU
1	20-C	1005	GLN
1	20-C	1129	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (534) such sidechains are listed below:

Mol	Chain	Res	Type
1	1-A	115	GLN
1	1-A	146	HIS
1	1-A	173	GLN
1	1-A	321	GLN
1	1-A	949	GLN

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Mol	Chain	Res	Type
1	1-A	955	ASN
1	1-B	52	GLN
1	1-B	314	GLN
1	1-B	544	ASN
1	1-B	613	GLN
1	1-B	755	GLN
1	1-B	1088	HIS
1	1-B	1101	HIS
1	1-B	1113	GLN
1	1-B	1142	GLN
1	1-C	61	ASN
1	1-C	185	ASN
1	1-C	606	ASN
1	1-C	641	ASN
1	1-C	644	GLN
1	1-C	856	ASN
1	1-C	914	ASN
1	1-C	1113	GLN
1	2-A	115	GLN
1	2-A	137	ASN
1	2-A	146	HIS
1	2-A	271	GLN
1	2-A	321	GLN
1	2-A	394	ASN
1	2-A	474	GLN
1	2-A	536	ASN
1	2-A	644	GLN
1	2-A	755	GLN
1	2-A	992	GLN
1	2-A	1048	HIS
1	2-B	30	ASN
1	2-B	422	ASN
1	2-B	644	GLN
1	2-B	853	GLN
1	2-B	872	GLN
1	2-B	901	GLN
1	2-B	907	ASN
1	2-B	957	GLN
1	2-B	1058	HIS
1	2-C	61	ASN
1	2-C	115	GLN
1	2-C	134	GLN

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Mol	Chain	Res	Type
1	2-C	245	HIS
1	2-C	370	ASN
1	2-C	563	GLN
1	2-C	658	ASN
1	2-C	777	ASN
1	2-C	949	GLN
1	3-A	536	ASN
1	3-A	563	GLN
1	3-A	580	GLN
1	3-A	606	ASN
1	3-A	777	ASN
1	3-A	779	GLN
1	3-A	955	ASN
1	3-A	1002	GLN
1	3-A	1011	GLN
1	3-A	1134	ASN
1	3-B	99	ASN
1	3-B	125	ASN
1	3-B	317	ASN
1	3-B	370	ASN
1	3-B	409	GLN
1	3-B	414	GLN
1	3-B	439	ASN
1	3-B	670	ASN
1	3-B	762	GLN
1	3-B	784	GLN
1	3-B	895	GLN
1	3-B	901	GLN
1	3-B	949	GLN
1	3-B	1005	GLN
1	3-B	1011	GLN
1	3-B	1113	GLN
1	3-C	69	HIS
1	3-C	99	ASN
1	3-C	121	ASN
1	3-C	125	ASN
1	3-C	245	HIS
1	3-C	314	GLN
1	3-C	409	GLN
1	3-C	670	ASN
1	3-C	919	ASN
1	3-C	992	GLN

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Mol	Chain	Res	Type
1	3-C	1011	GLN
1	4-A	66	HIS
1	4-A	69	HIS
1	4-A	125	ASN
1	4-A	613	GLN
1	4-A	1011	GLN
1	4-B	271	GLN
1	4-B	317	ASN
1	4-B	409	GLN
1	4-B	422	ASN
1	4-B	439	ASN
1	4-B	607	GLN
1	4-B	762	GLN
1	4-B	777	ASN
1	4-B	901	GLN
1	4-C	125	ASN
1	4-C	196	ASN
1	4-C	207	HIS
1	4-C	239	GLN
1	4-C	439	ASN
1	4-C	762	GLN
1	4-C	965	GLN
1	5-A	115	GLN
1	5-A	185	ASN
1	5-A	239	GLN
1	5-A	414	GLN
1	5-A	437	ASN
1	5-A	439	ASN
1	5-A	493	GLN
1	5-A	506	GLN
1	5-A	613	GLN
1	5-A	949	GLN
1	5-A	992	GLN
1	5-A	1083	HIS
1	5-A	1088	HIS
1	5-A	1134	ASN
1	5-B	99	ASN
1	5-B	173	GLN
1	5-B	211	ASN
1	5-B	439	ASN
1	5-B	487	ASN
1	5-B	506	GLN

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Mol	Chain	Res	Type
1	5-B	613	GLN
1	5-B	690	GLN
1	5-B	784	GLN
1	5-B	856	ASN
1	5-B	872	GLN
1	5-B	914	ASN
1	5-B	1011	GLN
1	5-C	146	HIS
1	5-C	211	ASN
1	5-C	370	ASN
1	5-C	687	GLN
1	5-C	762	GLN
1	5-C	774	GLN
1	5-C	872	GLN
1	5-C	1071	GLN
1	5-C	1113	GLN
1	6-A	99	ASN
1	6-A	185	ASN
1	6-A	211	ASN
1	6-A	271	GLN
1	6-A	437	ASN
1	6-A	919	ASN
1	6-A	1011	GLN
1	6-A	1134	ASN
1	6-B	125	ASN
1	6-B	439	ASN
1	6-B	506	GLN
1	6-B	762	GLN
1	6-B	935	GLN
1	6-B	1010	GLN
1	6-B	1083	HIS
1	6-B	1113	GLN
1	6-C	239	GLN
1	6-C	370	ASN
1	6-C	409	GLN
1	6-C	762	GLN
1	6-C	957	GLN
1	6-C	1002	GLN
1	7-A	314	GLN
1	7-A	414	GLN
1	7-A	498	GLN
1	7-A	955	ASN

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Mol	Chain	Res	Type
1	7-A	1134	ASN
1	7-B	125	ASN
1	7-B	314	GLN
1	7-B	409	GLN
1	7-B	414	GLN
1	7-B	439	ASN
1	7-B	762	GLN
1	7-B	872	GLN
1	7-B	895	GLN
1	7-B	914	ASN
1	7-B	992	GLN
1	7-B	1113	GLN
1	7-C	125	ASN
1	7-C	670	ASN
1	7-C	690	GLN
1	7-C	1106	GLN
1	8-A	125	ASN
1	8-A	239	GLN
1	8-A	439	ASN
1	8-A	777	ASN
1	8-A	1134	ASN
1	8-B	69	HIS
1	8-B	125	ASN
1	8-B	211	ASN
1	8-B	314	GLN
1	8-B	764	ASN
1	8-B	856	ASN
1	8-B	957	GLN
1	8-B	1113	GLN
1	8-C	125	ASN
1	8-C	370	ASN
1	8-C	439	ASN
1	8-C	784	GLN
1	9-A	30	ASN
1	9-A	81	ASN
1	9-A	146	HIS
1	9-A	173	GLN
1	9-A	207	HIS
1	9-A	321	GLN
1	9-A	644	GLN
1	9-A	658	ASN
1	9-A	755	GLN

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Mol	Chain	Res	Type
1	9-A	777	ASN
1	9-A	853	GLN
1	9-B	49	HIS
1	9-B	69	HIS
1	9-B	115	GLN
1	9-B	173	GLN
1	9-B	439	ASN
1	9-B	644	GLN
1	9-B	658	ASN
1	9-B	856	ASN
1	9-B	895	GLN
1	9-B	926	GLN
1	9-B	957	GLN
1	9-B	1048	HIS
1	9-B	1088	HIS
1	9-B	1125	ASN
1	9-C	61	ASN
1	9-C	188	ASN
1	9-C	321	GLN
1	9-C	644	GLN
1	9-C	949	GLN
1	9-C	969	ASN
1	9-C	1088	HIS
1	9-C	1113	GLN
1	10-A	211	ASN
1	10-A	271	GLN
1	10-A	370	ASN
1	10-A	762	GLN
1	10-A	955	ASN
1	10-A	1011	GLN
1	10-A	1083	HIS
1	10-B	125	ASN
1	10-B	185	ASN
1	10-B	211	ASN
1	10-B	314	GLN
1	10-B	409	GLN
1	10-B	762	GLN
1	10-B	949	GLN
1	10-B	953	ASN
1	10-B	1036	GLN
1	10-B	1083	HIS
1	10-B	1113	GLN

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Mol	Chain	Res	Type
1	10-C	125	ASN
1	10-C	207	HIS
1	10-C	762	GLN
1	10-C	954	GLN
1	10-C	955	ASN
1	10-C	1010	GLN
1	10-C	1011	GLN
1	11-A	146	HIS
1	11-A	173	GLN
1	11-A	321	GLN
1	11-A	394	ASN
1	11-A	474	GLN
1	11-A	613	GLN
1	11-A	658	ASN
1	11-A	969	ASN
1	11-A	1005	GLN
1	11-B	115	GLN
1	11-B	137	ASN
1	11-B	173	GLN
1	11-B	314	GLN
1	11-B	450	ASN
1	11-B	498	GLN
1	11-B	544	ASN
1	11-B	644	GLN
1	11-B	856	ASN
1	11-B	957	GLN
1	11-B	978	ASN
1	11-B	1005	GLN
1	11-B	1071	GLN
1	11-B	1101	HIS
1	11-B	1113	GLN
1	11-C	115	GLN
1	11-C	245	HIS
1	11-C	271	GLN
1	11-C	658	ASN
1	11-C	784	GLN
1	11-C	853	GLN
1	11-C	856	ASN
1	11-C	954	GLN
1	11-C	1005	GLN
1	11-C	1058	HIS
1	11-C	1088	HIS

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Mol	Chain	Res	Type
1	11-C	1113	GLN
1	12-A	394	ASN
1	12-A	414	GLN
1	12-A	762	GLN
1	12-A	919	ASN
1	12-A	957	GLN
1	12-B	185	ASN
1	12-B	211	ASN
1	12-B	370	ASN
1	12-B	506	GLN
1	12-B	764	ASN
1	12-B	784	GLN
1	12-B	853	GLN
1	12-B	872	GLN
1	12-B	935	GLN
1	12-B	1113	GLN
1	12-C	69	HIS
1	12-C	115	GLN
1	12-C	125	ASN
1	12-C	414	GLN
1	12-C	955	ASN
1	12-C	957	GLN
1	13-A	125	ASN
1	13-A	414	GLN
1	13-A	498	GLN
1	13-A	506	GLN
1	13-A	920	GLN
1	13-A	957	GLN
1	13-A	1005	GLN
1	13-A	1134	ASN
1	13-B	69	HIS
1	13-B	409	GLN
1	13-B	856	ASN
1	13-B	872	GLN
1	13-B	895	GLN
1	13-B	1083	HIS
1	13-C	414	GLN
1	13-C	506	GLN
1	13-C	670	ASN
1	13-C	710	ASN
1	13-C	762	GLN
1	13-C	853	GLN

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Mol	Chain	Res	Type
1	13-C	907	ASN
1	13-C	955	ASN
1	13-C	1113	GLN
1	14-A	115	GLN
1	14-A	134	GLN
1	14-A	207	HIS
1	14-A	394	ASN
1	14-A	437	ASN
1	14-A	439	ASN
1	14-A	544	ASN
1	14-A	564	GLN
1	14-A	606	ASN
1	14-A	777	ASN
1	14-A	954	GLN
1	14-A	1010	GLN
1	14-A	1011	GLN
1	14-A	1134	ASN
1	14-B	125	ASN
1	14-B	409	GLN
1	14-B	414	GLN
1	14-B	439	ASN
1	14-B	762	GLN
1	14-B	777	ASN
1	14-B	1106	GLN
1	14-B	1142	GLN
1	14-C	125	ASN
1	14-C	134	GLN
1	14-C	321	GLN
1	14-C	437	ASN
1	14-C	670	ASN
1	14-C	954	GLN
1	14-C	965	GLN
1	14-C	1002	GLN
1	14-C	1010	GLN
1	14-C	1113	GLN
1	15-A	69	HIS
1	15-A	99	ASN
1	15-A	125	ASN
1	15-A	146	HIS
1	15-A	414	GLN
1	15-A	439	ASN
1	15-A	498	GLN

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Mol	Chain	Res	Type
1	15-A	536	ASN
1	15-A	606	ASN
1	15-A	670	ASN
1	15-A	1106	GLN
1	15-A	1159	HIS
1	15-B	314	GLN
1	15-B	317	ASN
1	15-B	409	GLN
1	15-B	439	ASN
1	15-B	762	GLN
1	15-B	1058	HIS
1	15-B	1113	GLN
1	15-C	69	HIS
1	15-C	125	ASN
1	15-C	196	ASN
1	15-C	239	GLN
1	15-C	314	GLN
1	15-C	370	ASN
1	15-C	409	GLN
1	15-C	437	ASN
1	15-C	544	ASN
1	15-C	762	GLN
1	15-C	1106	GLN
1	16-A	125	ASN
1	16-A	185	ASN
1	16-A	536	ASN
1	16-A	613	GLN
1	16-A	762	GLN
1	16-A	1002	GLN
1	16-A	1054	GLN
1	16-A	1134	ASN
1	16-B	125	ASN
1	16-B	563	GLN
1	16-B	670	ASN
1	16-B	687	GLN
1	16-B	774	GLN
1	16-B	872	GLN
1	16-B	992	GLN
1	16-B	1005	GLN
1	16-B	1083	HIS
1	16-B	1113	GLN
1	16-C	125	ASN

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Mol	Chain	Res	Type
1	16-C	481	ASN
1	16-C	690	GLN
1	16-C	784	GLN
1	16-C	901	GLN
1	16-C	992	GLN
1	16-C	1113	GLN
1	17-A	239	GLN
1	17-A	409	GLN
1	17-A	670	ASN
1	17-A	919	ASN
1	17-A	955	ASN
1	17-A	1005	GLN
1	17-A	1010	GLN
1	17-A	1106	GLN
1	17-A	1134	ASN
1	17-B	314	GLN
1	17-B	439	ASN
1	17-B	762	GLN
1	17-B	784	GLN
1	17-B	992	GLN
1	17-B	1011	GLN
1	17-B	1083	HIS
1	17-B	1113	GLN
1	17-C	69	HIS
1	17-C	125	ASN
1	17-C	314	GLN
1	17-C	360	ASN
1	17-C	370	ASN
1	17-C	414	GLN
1	17-C	762	GLN
1	17-C	954	GLN
1	17-C	992	GLN
1	17-C	1005	GLN
1	18-A	314	GLN
1	18-A	409	GLN
1	18-A	439	ASN
1	18-A	536	ASN
1	18-A	564	GLN
1	18-A	762	GLN
1	18-A	1054	GLN
1	18-A	1134	ASN
1	18-B	125	ASN

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Mol	Chain	Res	Type
1	18-B	409	GLN
1	18-B	439	ASN
1	18-B	540	ASN
1	18-B	762	GLN
1	18-B	784	GLN
1	18-B	856	ASN
1	18-B	872	GLN
1	18-B	935	GLN
1	18-C	99	ASN
1	18-C	125	ASN
1	18-C	134	GLN
1	18-C	207	HIS
1	18-C	317	ASN
1	18-C	388	ASN
1	18-C	540	ASN
1	18-C	670	ASN
1	18-C	762	GLN
1	18-C	992	GLN
1	19-A	49	HIS
1	19-A	115	GLN
1	19-A	414	GLN
1	19-A	439	ASN
1	19-A	544	ASN
1	19-A	613	GLN
1	19-A	777	ASN
1	19-A	895	GLN
1	19-A	919	ASN
1	19-A	955	ASN
1	19-A	1005	GLN
1	19-A	1010	GLN
1	19-A	1083	HIS
1	19-B	125	ASN
1	19-B	271	GLN
1	19-B	409	GLN
1	19-B	655	HIS
1	19-B	935	GLN
1	19-B	1106	GLN
1	19-B	1113	GLN
1	19-C	125	ASN
1	19-C	437	ASN
1	19-C	487	ASN
1	19-C	540	ASN

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Mol	Chain	Res	Type
1	19-C	1159	HIS
1	20-A	125	ASN
1	20-A	409	GLN
1	20-A	613	GLN
1	20-A	1134	ASN
1	20-B	125	ASN
1	20-B	185	ASN
1	20-B	211	ASN
1	20-B	314	GLN
1	20-B	370	ASN
1	20-B	422	ASN
1	20-B	613	GLN
1	20-B	762	GLN
1	20-B	920	GLN
1	20-C	125	ASN
1	20-C	211	ASN
1	20-C	370	ASN
1	20-C	670	ASN
1	20-C	710	ASN
1	20-C	774	GLN
1	20-C	777	ASN
1	20-C	872	GLN
1	20-C	895	GLN
1	20-C	954	GLN
1	20-C	1108	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

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)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	1-C	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	320:VAL	C	321:GLN	N	1.70

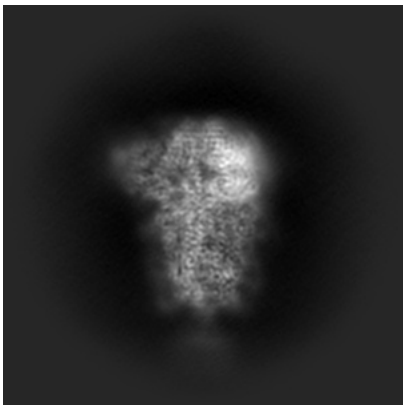
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-51280. These allow visual inspection of the internal detail of the map and identification of artifacts.

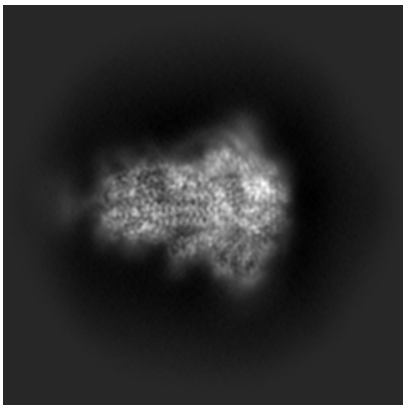
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

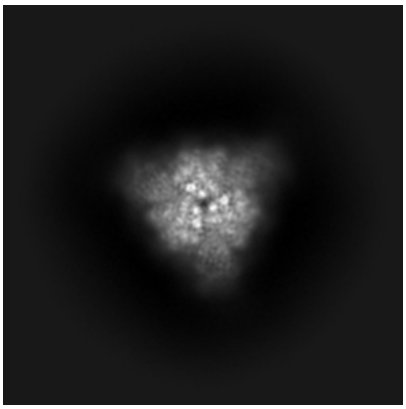
6.1.1 Primary map



X

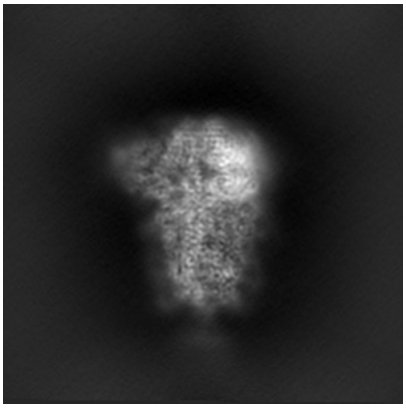


Y

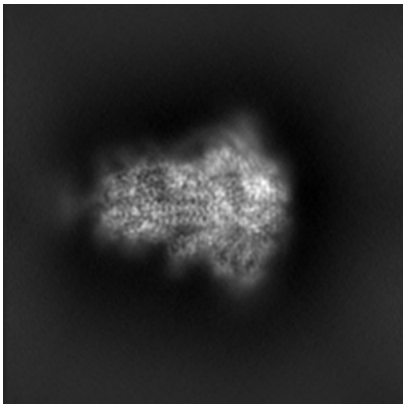


Z

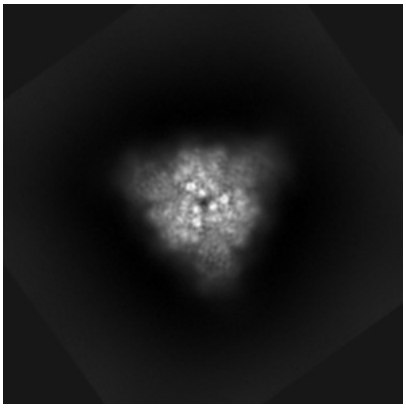
6.1.2 Raw map



X



Y

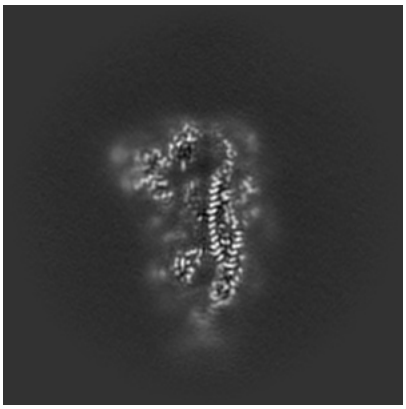


Z

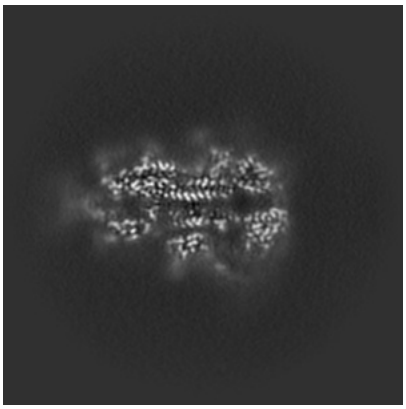
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

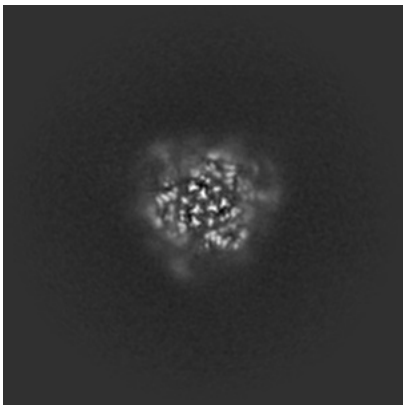
6.2.1 Primary map



X Index: 112

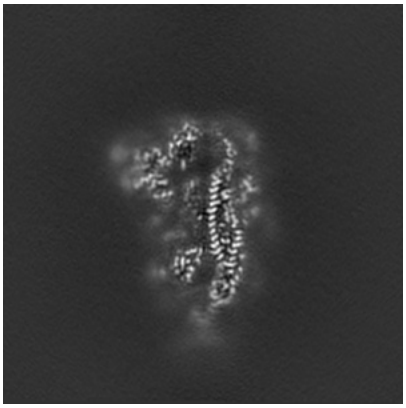


Y Index: 112

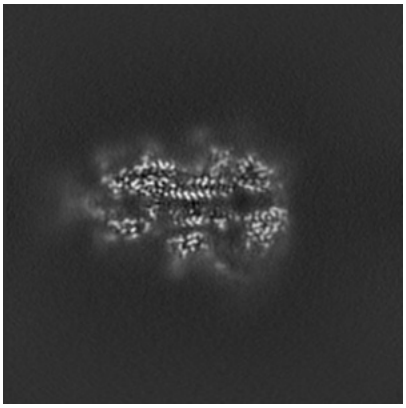


Z Index: 112

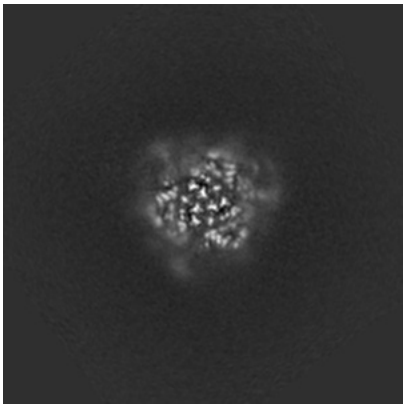
6.2.2 Raw map



X Index: 112



Y Index: 112



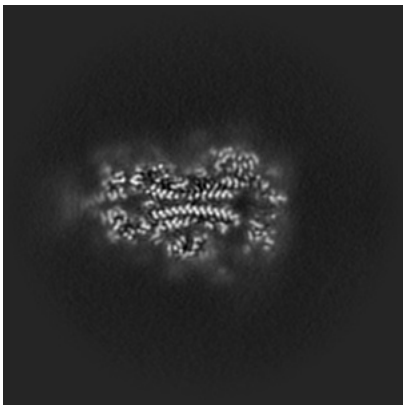
Z Index: 112

The images above show central slices of the map in three orthogonal directions.

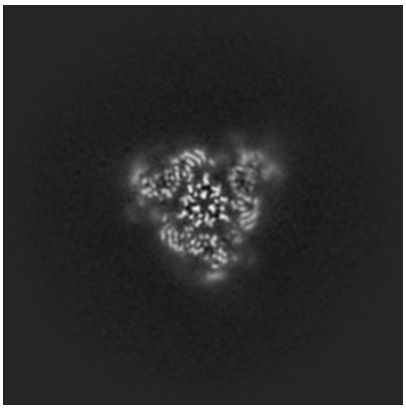
6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 107



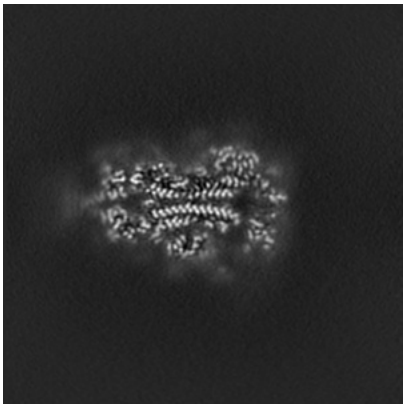
Y Index: 109



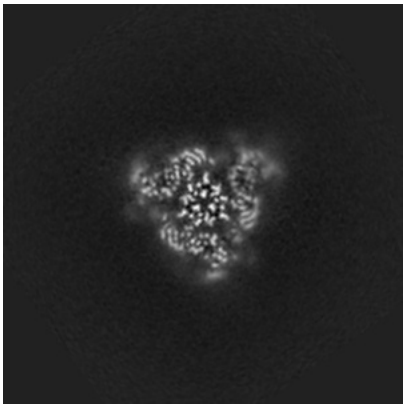
Z Index: 119

6.3.2 Raw map

X Index: 107



Y Index: 109

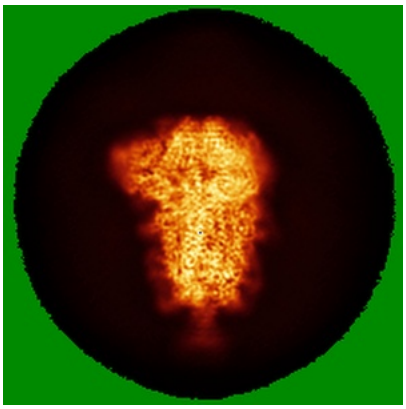


Z Index: 119

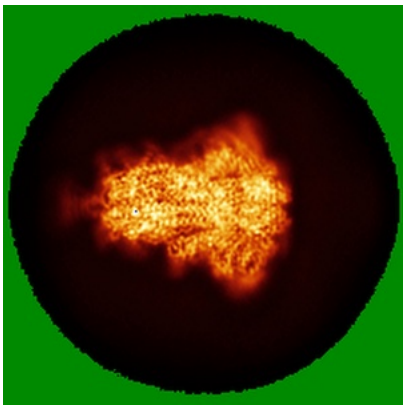
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

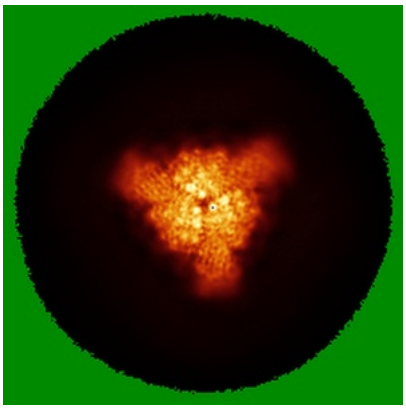
6.4.1 Primary map



X

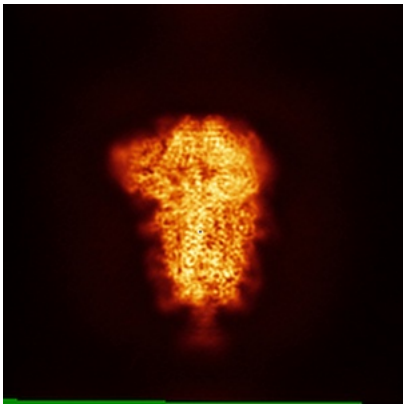


Y

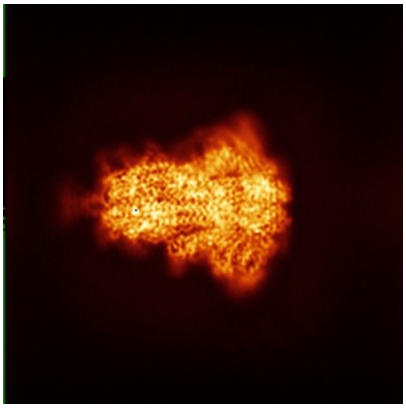


Z

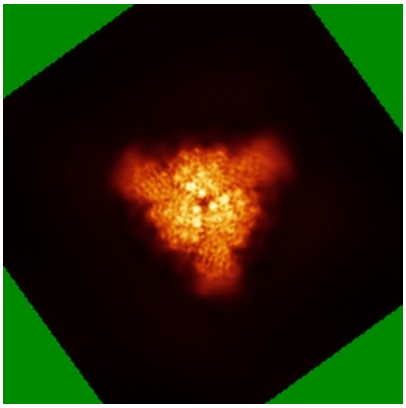
6.4.2 Raw map



X



Y

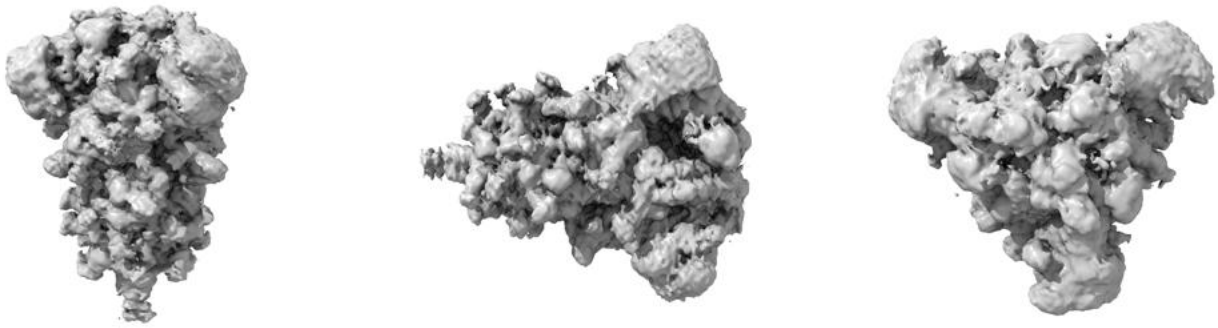


Z

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 0.15. 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.

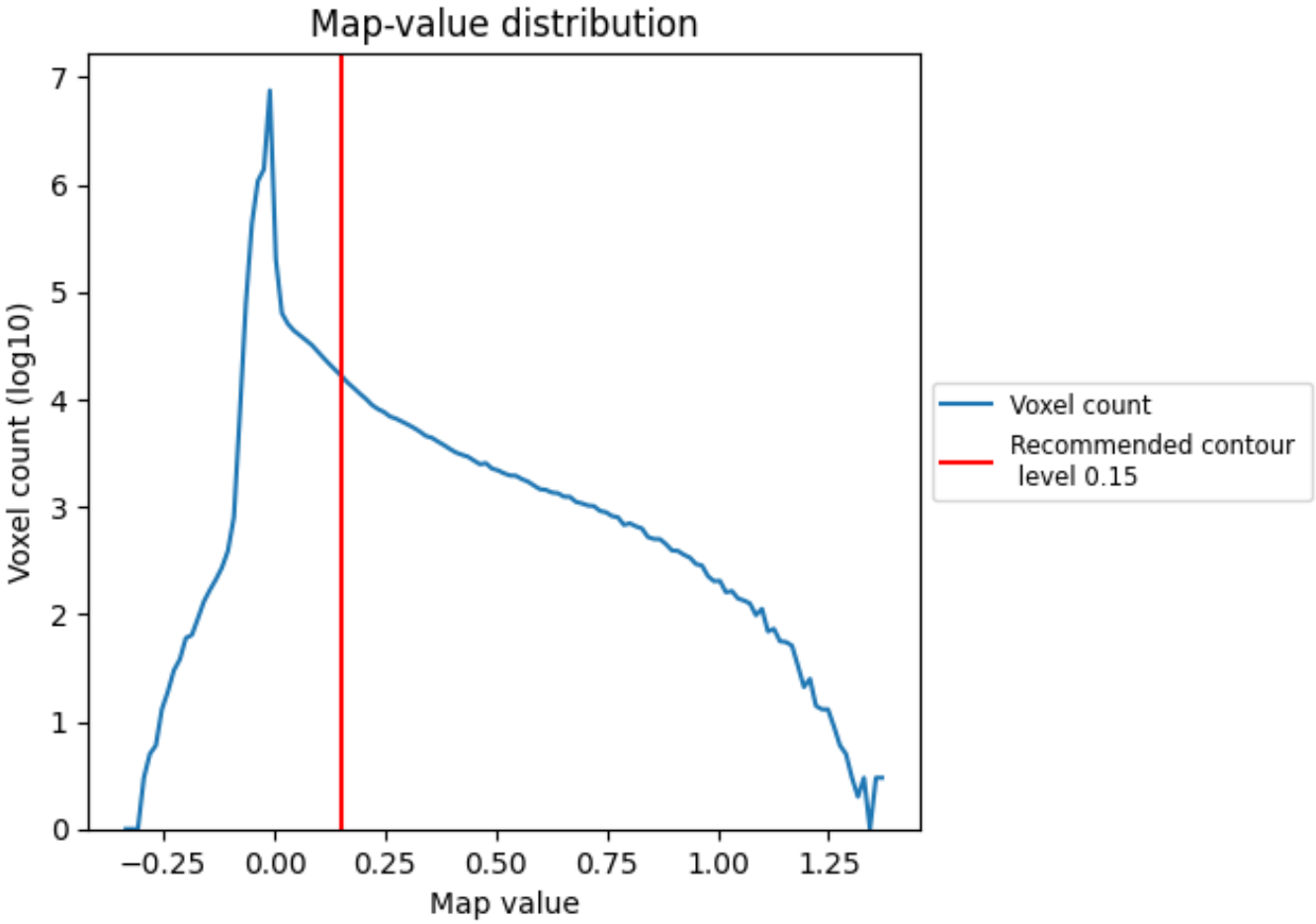
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

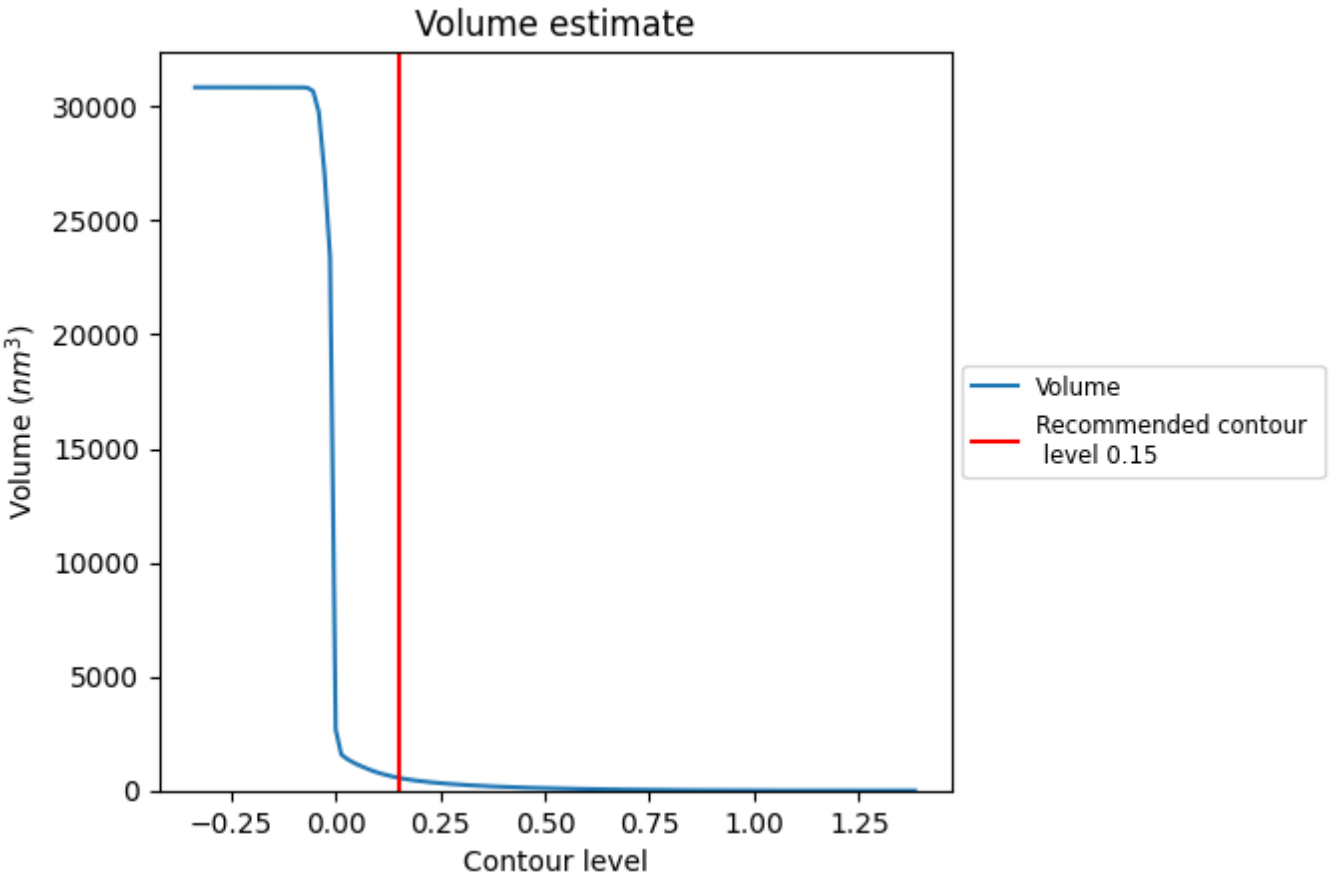
This section contains the results of statistical analysis of the map.

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.

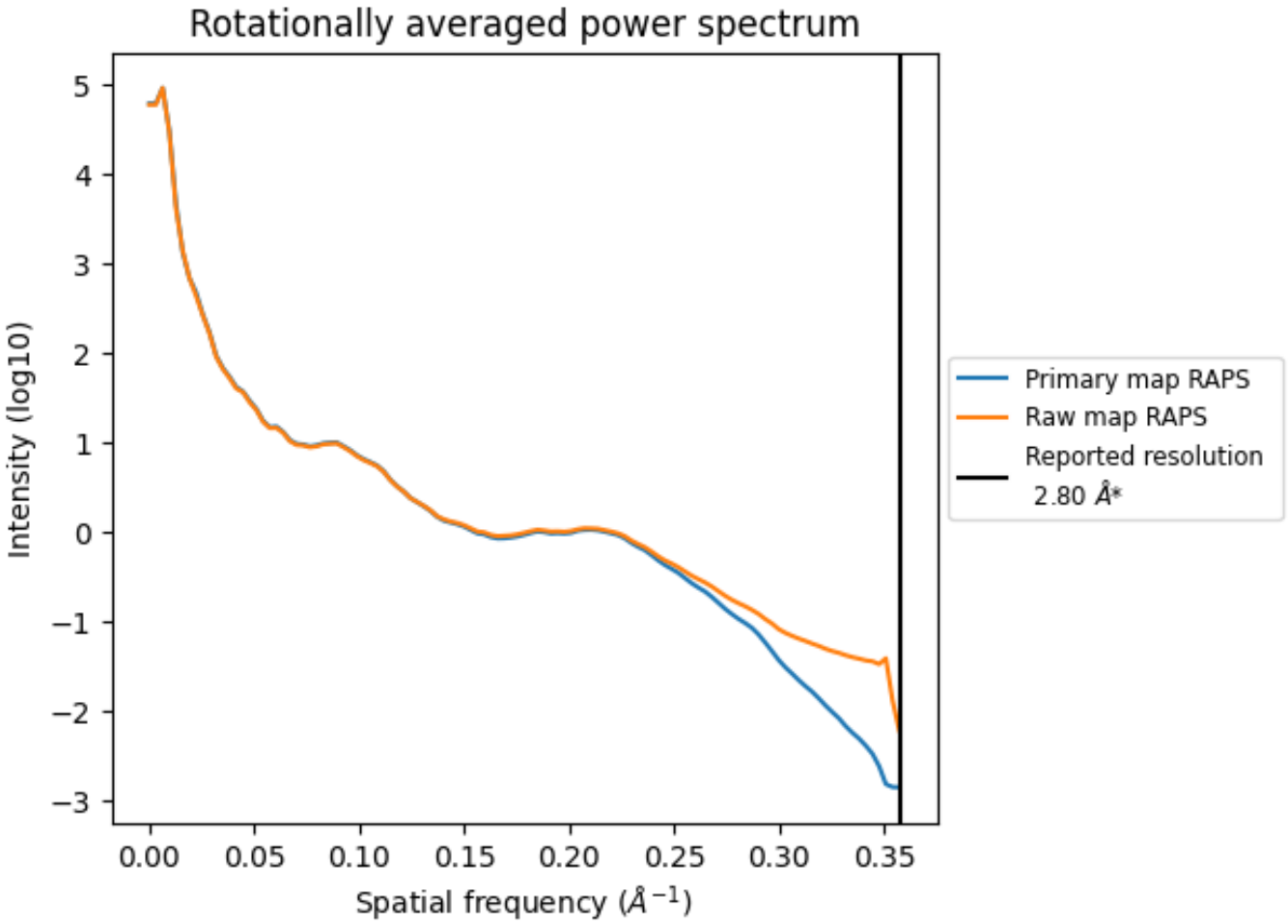
7.2 Volume estimate



The volume at the recommended contour level is 564 nm^3; this corresponds to an approximate mass of 510 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)

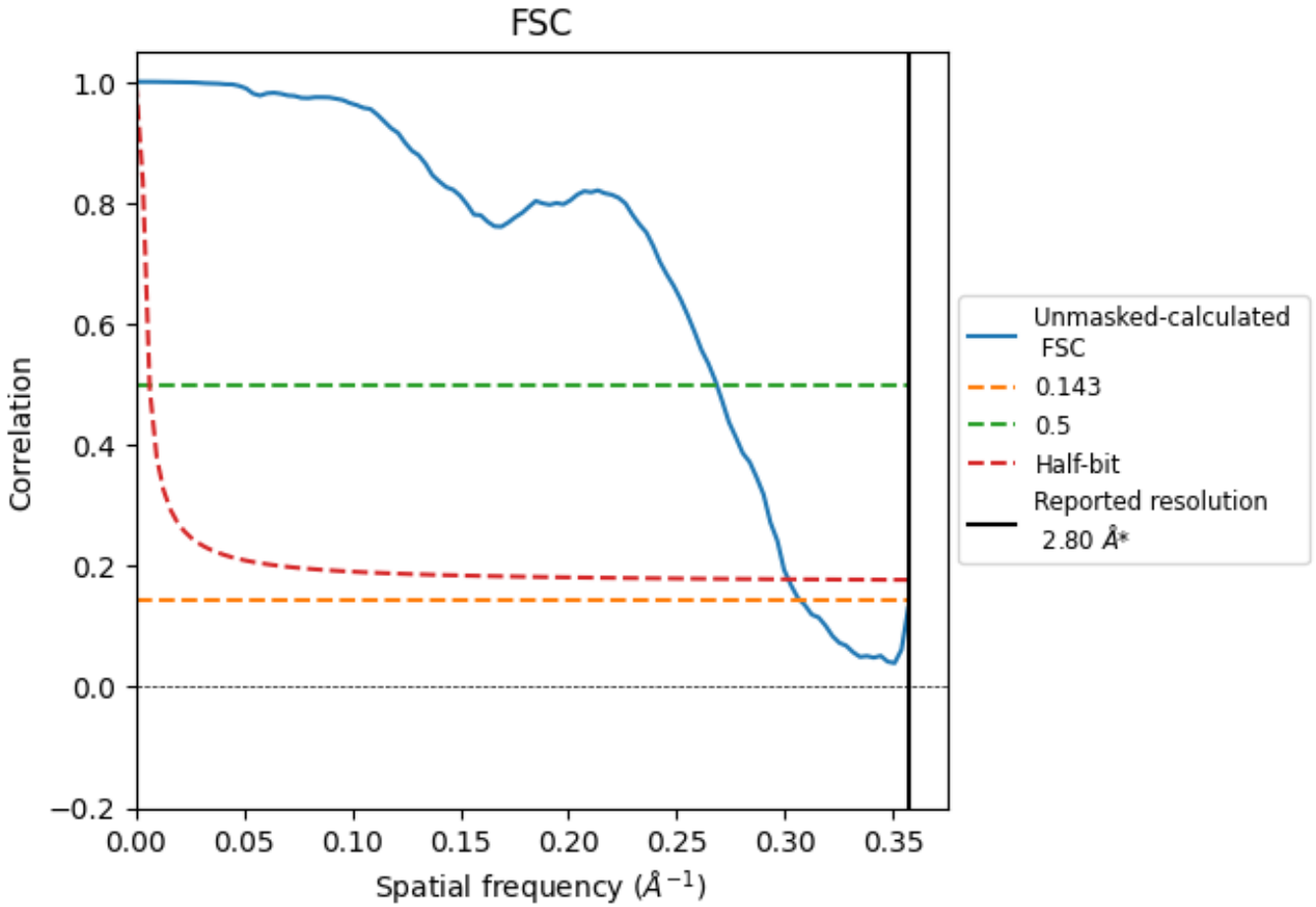


*Reported resolution corresponds to spatial frequency of 0.357 Å^{-1}

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 0.357 Å^{-1}

8.2 Resolution estimates (i)

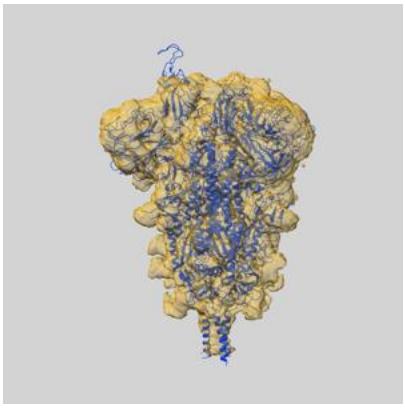
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.80	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.26	3.73	3.31

*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 3.26 differs from the reported value 2.8 by more than 10 %

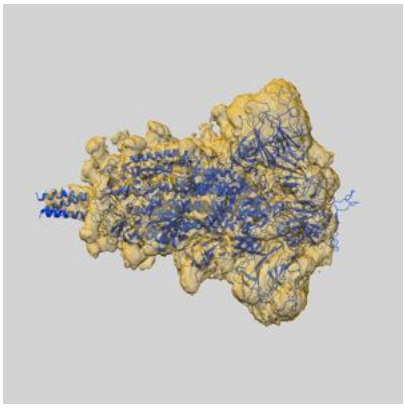
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-51280 and PDB model 9GDY. Per-residue inclusion information can be found in section 3 on page 12.

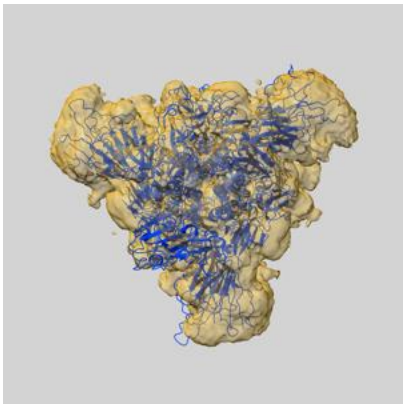
9.1 Map-model overlay



X



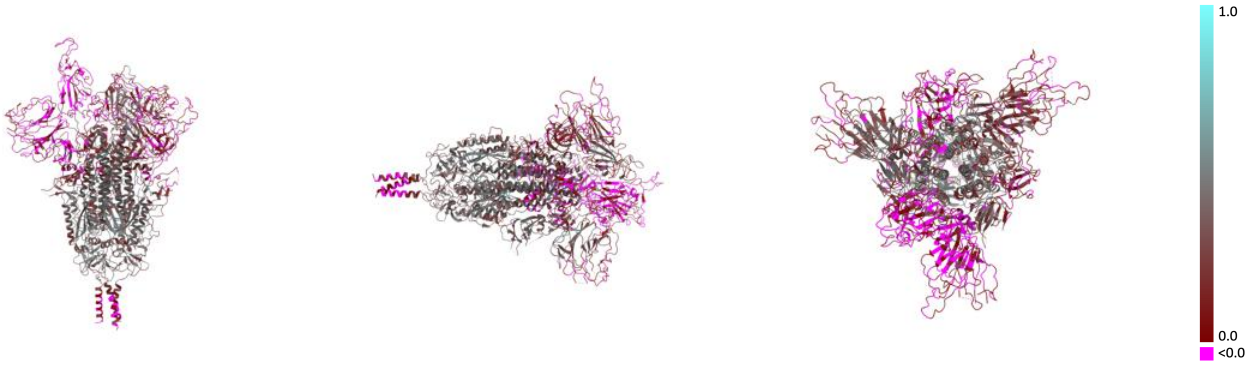
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.15 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.

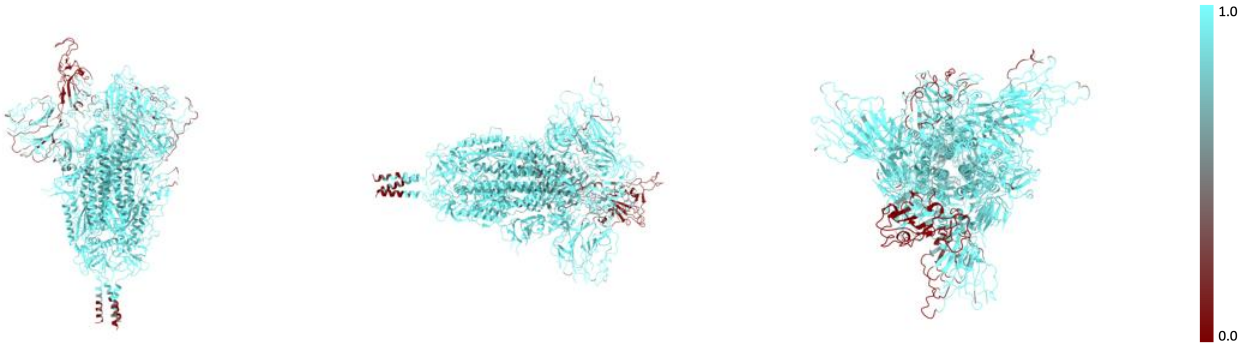
9.2 Q-score mapped to coordinate model (i)



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.

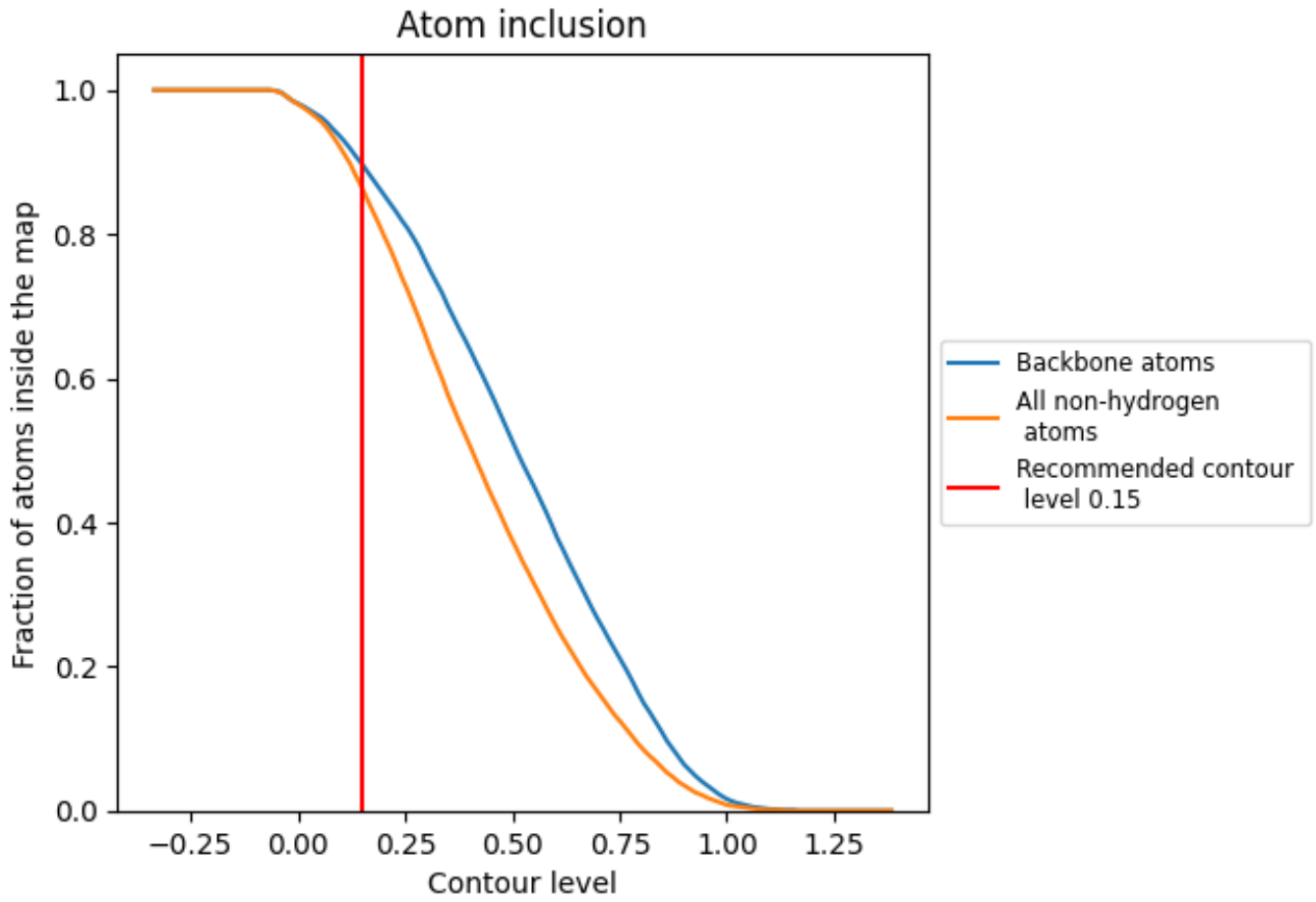
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.15).

9.4 Atom inclusion (i)



At the recommended contour level, 90% of all backbone atoms, 86% 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 (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8640	0.2390
A	0.8260	0.2590
B	0.8900	0.2410
C	0.8750	0.2170