Full wwPDB EM Validation Report

Nov 4, 2024 – 02:43 am GMT

PDB ID	:	9GDX
EMDB ID	:	EMD-51279
Title	:	SARS-CoV-2 Spike protein Beta Variant at 4C 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 model	:	7VX1

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

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

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

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

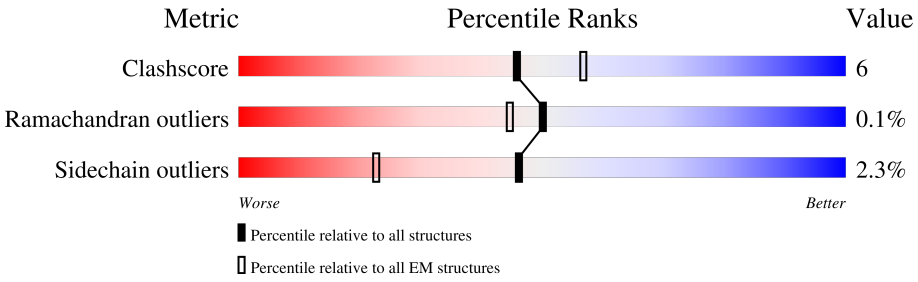
EMDB validation analysis	:	0.0.1.dev113
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

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	70% 16% • 12%
1	1-B	1230	72% 14% • 12%
1	1-C	1230	12% 73% 14% • 12%
1	10-A	1230	70% 17% • 12%
1	10-B	1230	70% 16% • 12%
1	10-C	1230	69% 16% • 12%
1	11-A	1230	72% 15% • 12%
1	11-B	1230	70% 16% • 12%

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Mol	Chain	Length	Quality of chain
1	11-C	1230	70% 16% • 12%
1	12-A	1230	71% 15% • 12%
1	12-B	1230	74% 13% • 12%
1	12-C	1230	71% 15% • 12%
1	13-A	1230	72% 15% • 12%
1	13-B	1230	71% 14% • 12%
1	13-C	1230	70% 16% • 12%
1	14-A	1230	71% 16% • 12%
1	14-B	1230	69% 17% • 12%
1	14-C	1230	70% 17% • 12%
1	15-A	1230	71% 16% • 12%
1	15-B	1230	72% 14% • 12%
1	15-C	1230	70% 17% • 12%
1	16-A	1230	71% 16% • 12%
1	16-B	1230	73% 13% • 12%
1	16-C	1230	73% 13% • 12%
1	17-A	1230	72% 15% • 12%
1	17-B	1230	69% 17% • 12%
1	17-C	1230	72% 15% • 12%
1	18-A	1230	70% 16% • 12%
1	18-B	1230	70% 17% • 12%
1	18-C	1230	70% 17% • 12%
1	19-A	1230	75% 12% • 12%
1	19-B	1230	73% 13% • 12%
1	19-C	1230	72% 15% • 12%

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Mol	Chain	Length	Quality of chain
1	2-A	1230	70% 17% • 12%
1	2-B	1230	71% 15% • 12%
1	2-C	1230	72% 14% • 12%
1	20-A	1230	70% 16% • 12%
1	20-B	1230	71% 15% • 12%
1	20-C	1230	68% 17% • 12%
1	3-A	1230	71% 16% • 12%
1	3-B	1230	72% 14% • 12%
1	3-C	1230	71% 15% • 12%
1	4-A	1230	70% 17% • 12%
1	4-B	1230	72% 14% • 12%
1	4-C	1230	70% 16% • 12%
1	5-A	1230	73% 13% • 12%
1	5-B	1230	75% 12% • 12%
1	5-C	1230	74% 12% • 12%
1	6-A	1230	75% 12% • 12%
1	6-B	1230	69% 17% • 12%
1	6-C	1230	71% 15% • 12%
1	7-A	1230	74% 13% • 12%
1	7-B	1230	72% 14% • 12%
1	7-C	1230	72% 14% • 12%
1	8-A	1230	71% 15% • 12%
1	8-B	1230	68% 18% • 12%
1	8-C	1230	71% 16% • 12%
1	9-A	1230	69% 17% • 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 507240 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 8454	C 5399	N 1410	O 1606	S 39	0	0
1	2-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	3-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	4-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	5-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	6-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	7-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	8-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	9-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	10-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	11-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	12-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	13-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	14-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	15-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	16-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0
1	17-A	1079	Total 8454	C 5399	N 1410	O 1606	S 39	0	0

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

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

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	20-C	1079	Total	C	N	O	S	0	0
			8454	5399	1410	1606	39		

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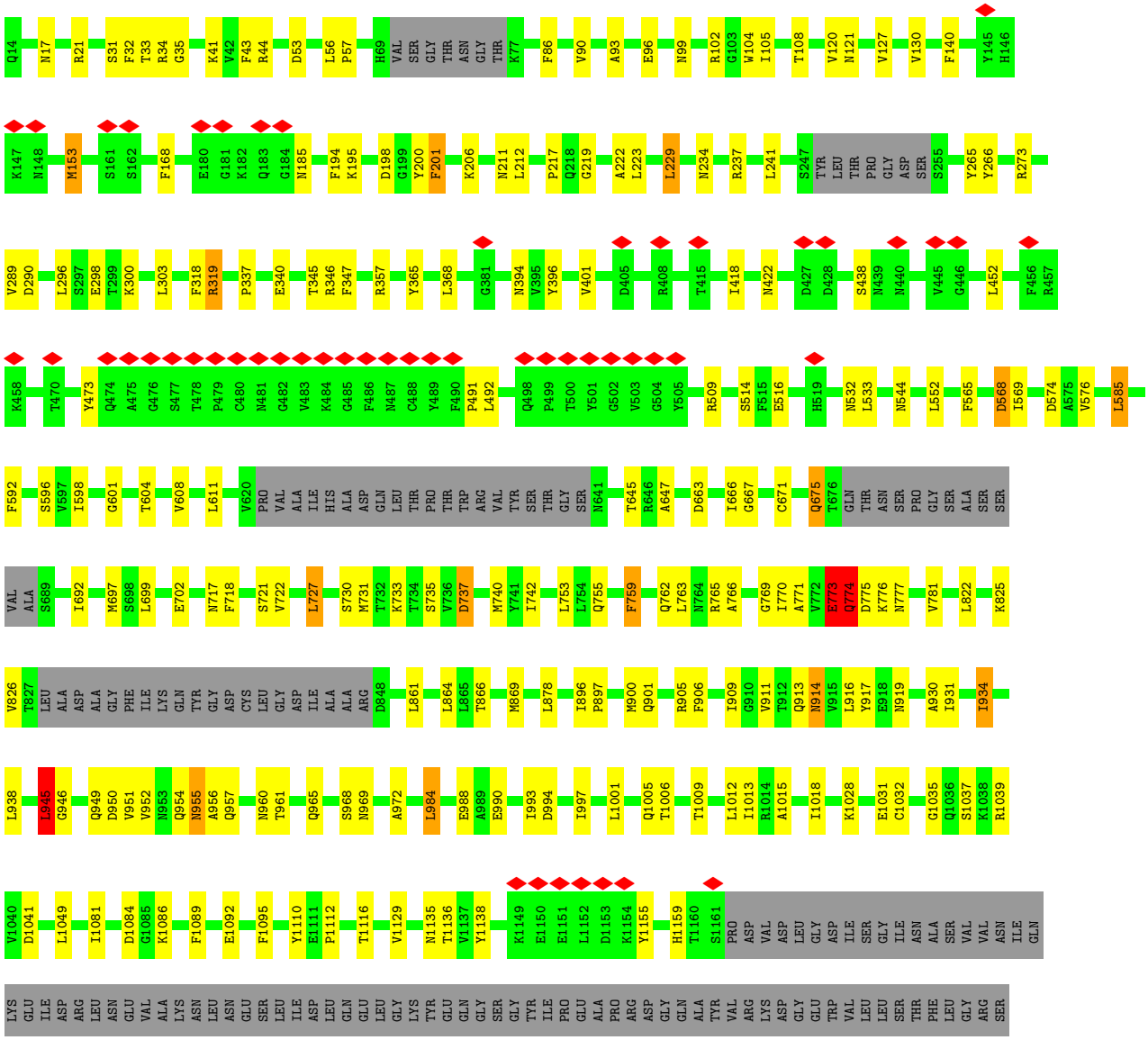
Chain	Residue	Modelled	Actual	Comment	Reference
C	1238	GLY	-	expression tag	UNP P10104
C	1239	ARG	-	expression tag	UNP P10104
C	1240	SER	-	expression tag	UNP P10104
C	1241	LEU	-	expression tag	UNP P10104
C	1242	GLU	-	expression tag	UNP P10104
C	1243	VAL	-	expression tag	UNP P10104
C	1244	LEU	-	expression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

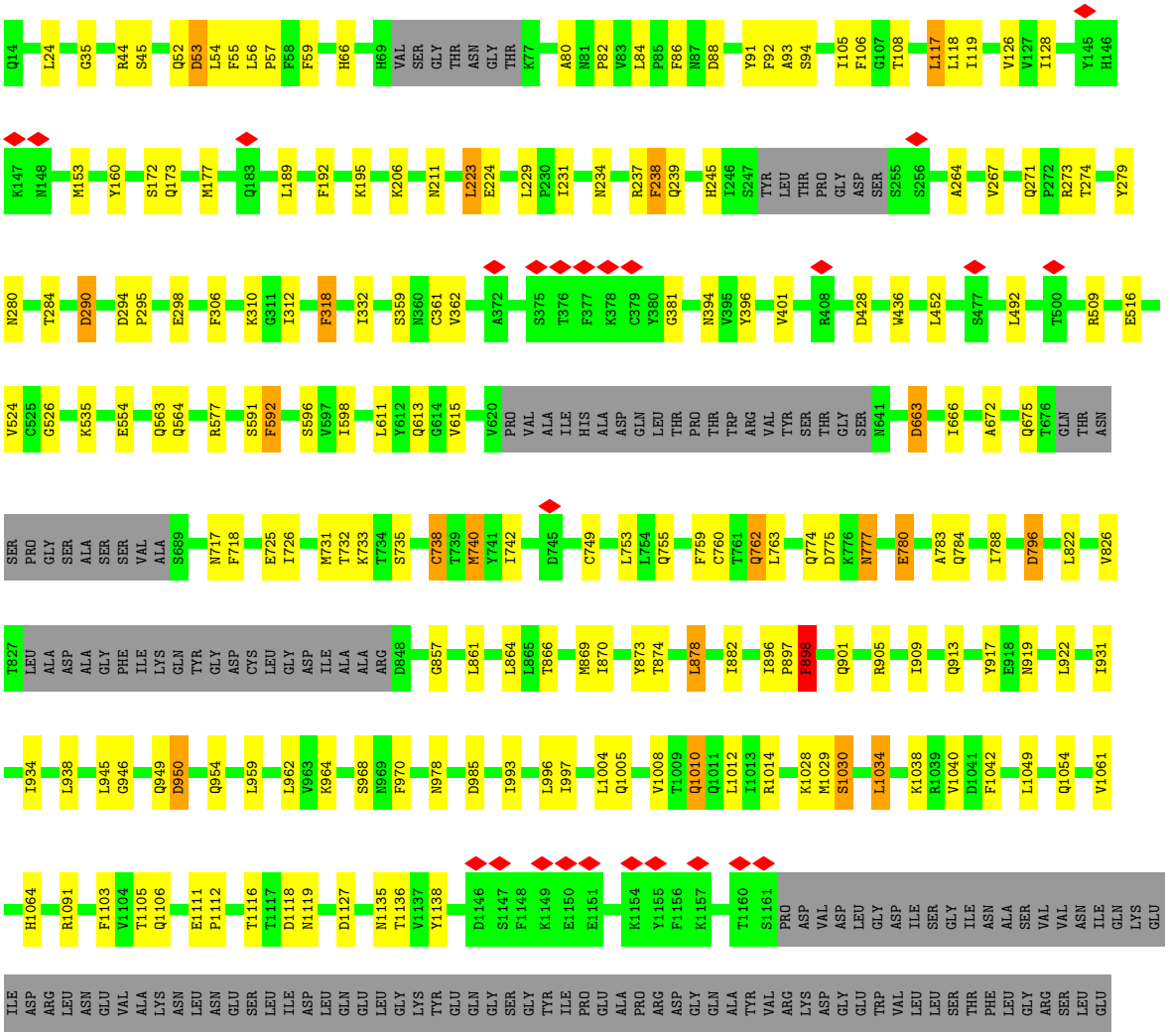
- Molecule 1: Spike glycoprotein,Fibritin

Chain 1-A:



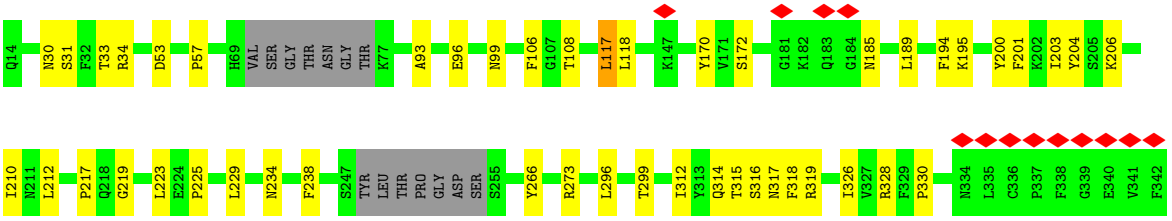
• Molecule 1: Spike glycoprotein,Fibritin

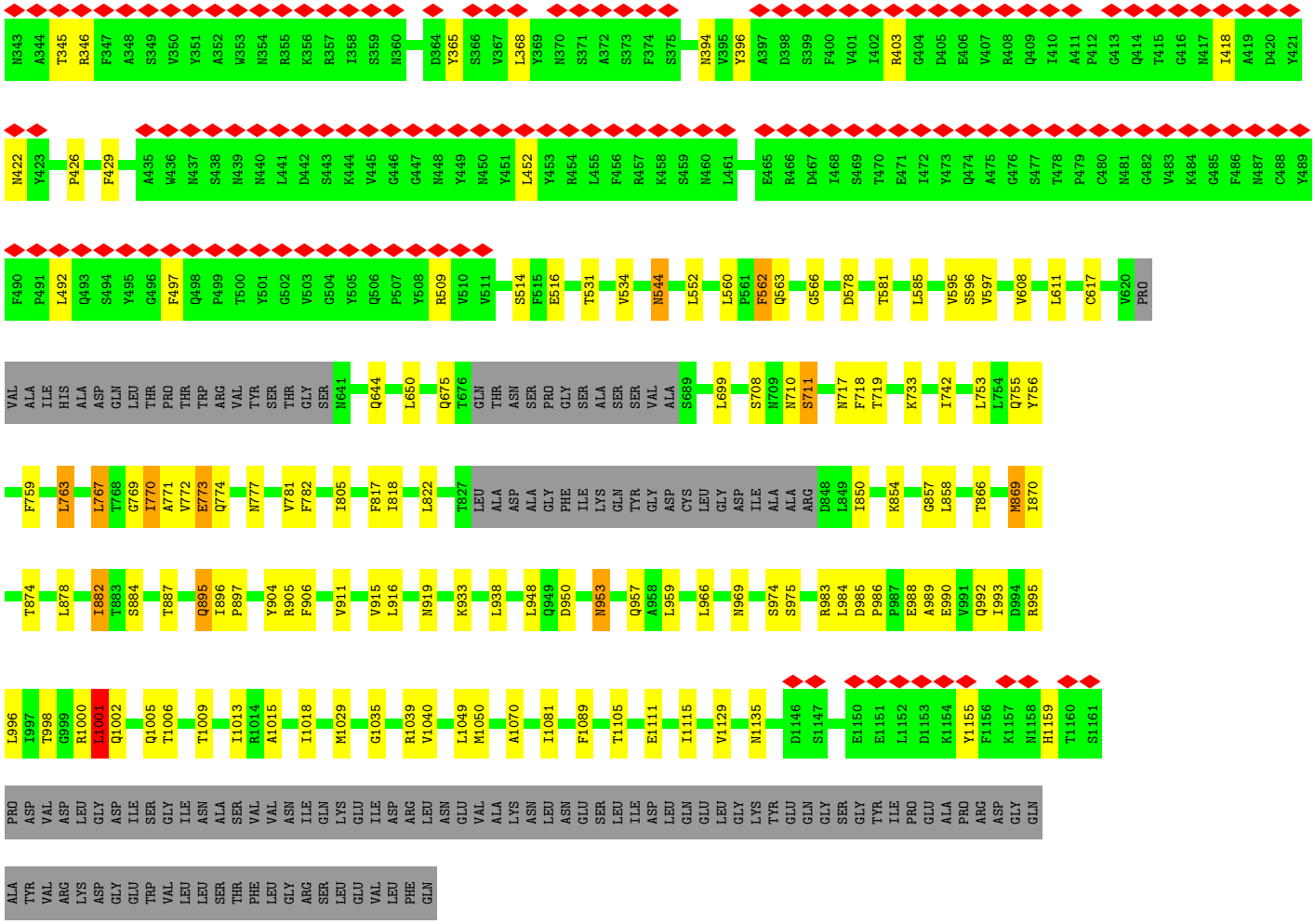
Chain 1-B:



• Molecule 1: Spike glycoprotein,Fibritin

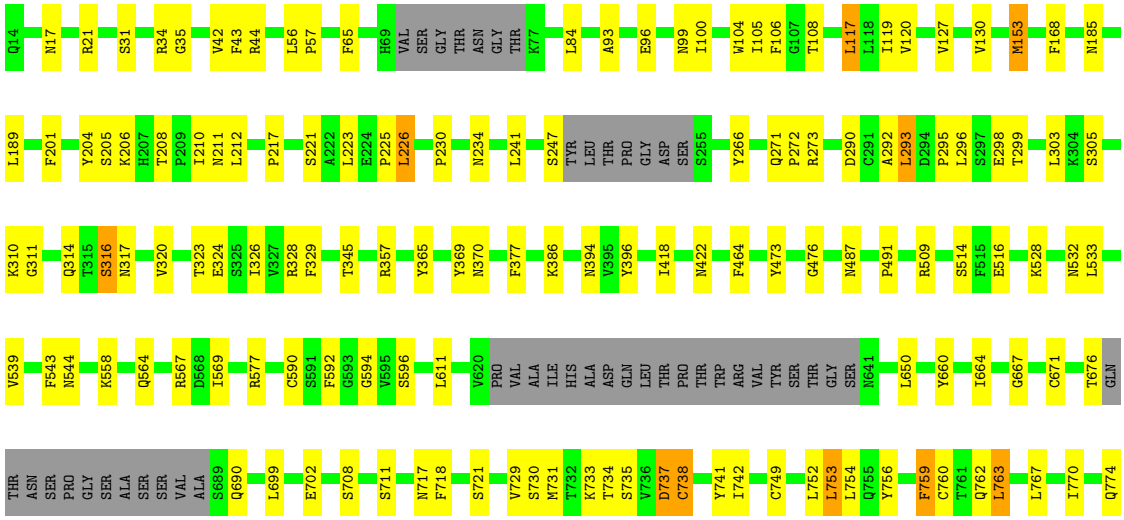
Chain 1-C:

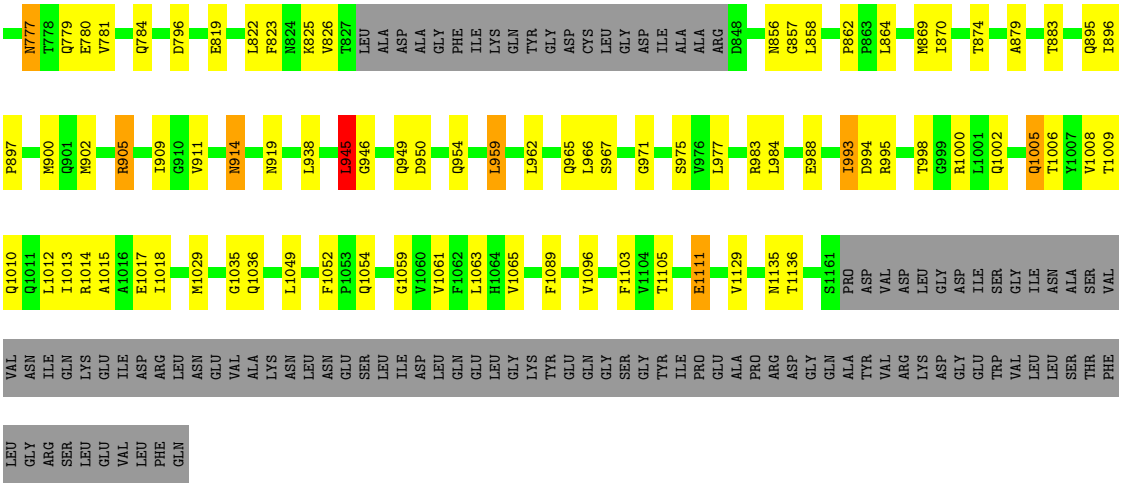




• Molecule 1: Spike glycoprotein,Fibritin

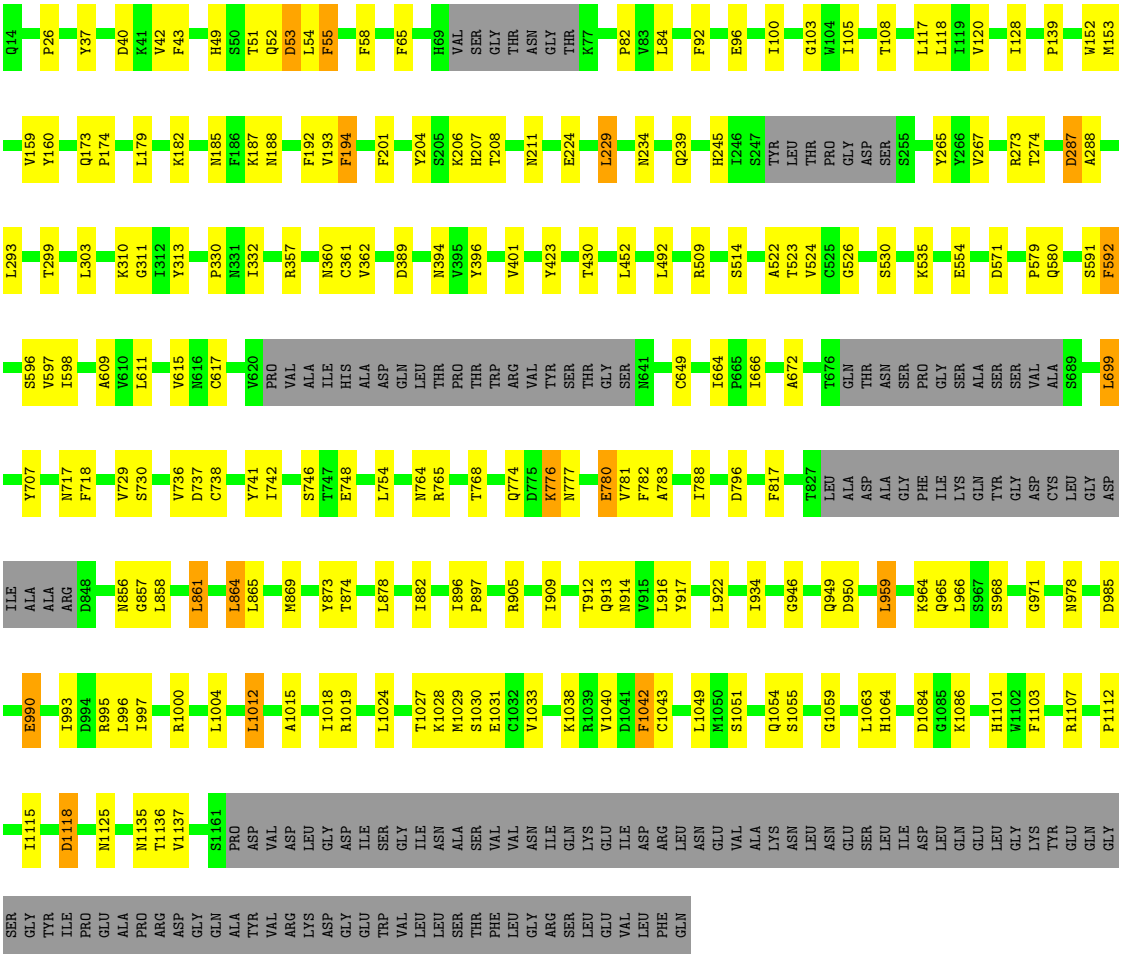
Chain 2-A:





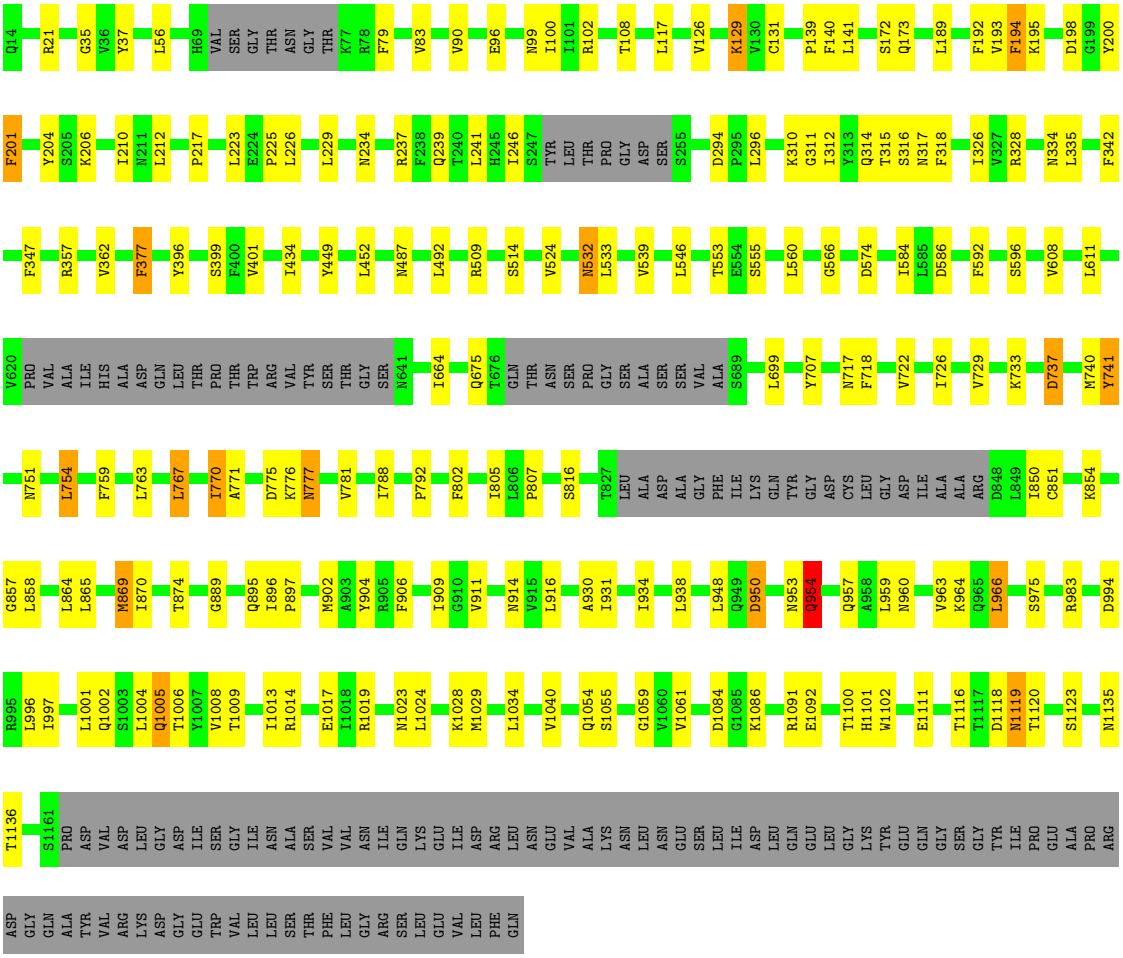
• Molecule 1: Spike glycoprotein,Fibritin

Chain 2-B:



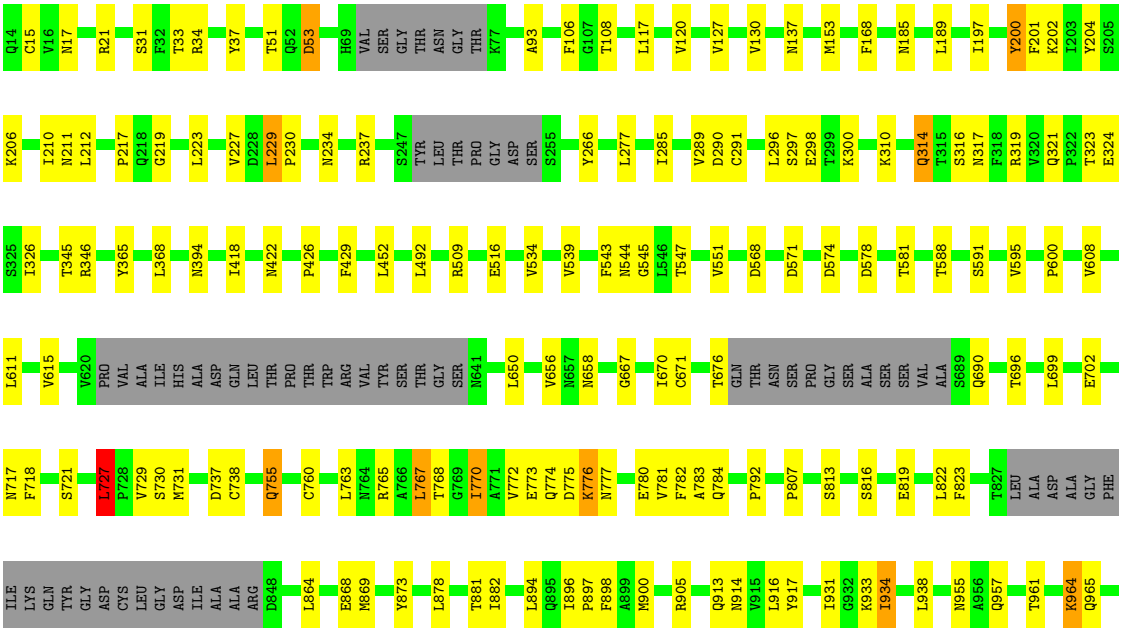
• Molecule 1: Spike glycoprotein,Fibritin

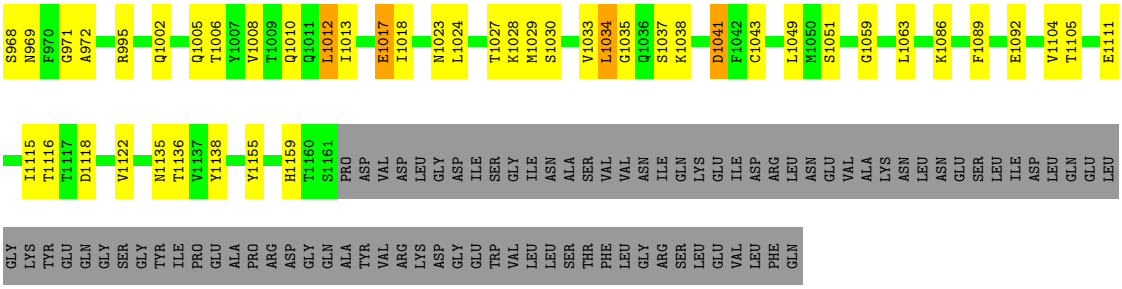
Chain 2-C:



• Molecule 1: Spike glycoprotein,Fibritin

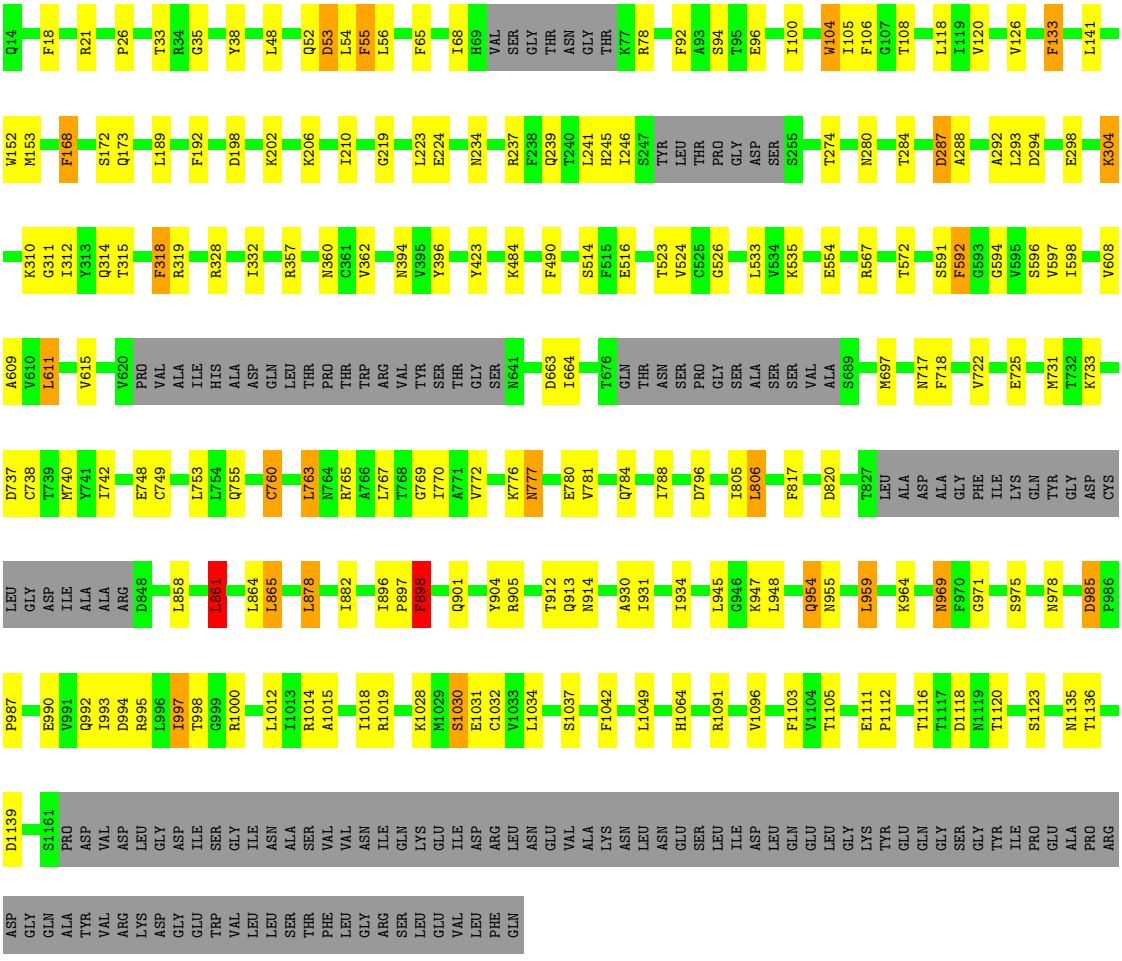
Chain 3-A: 71% 16% • 12%





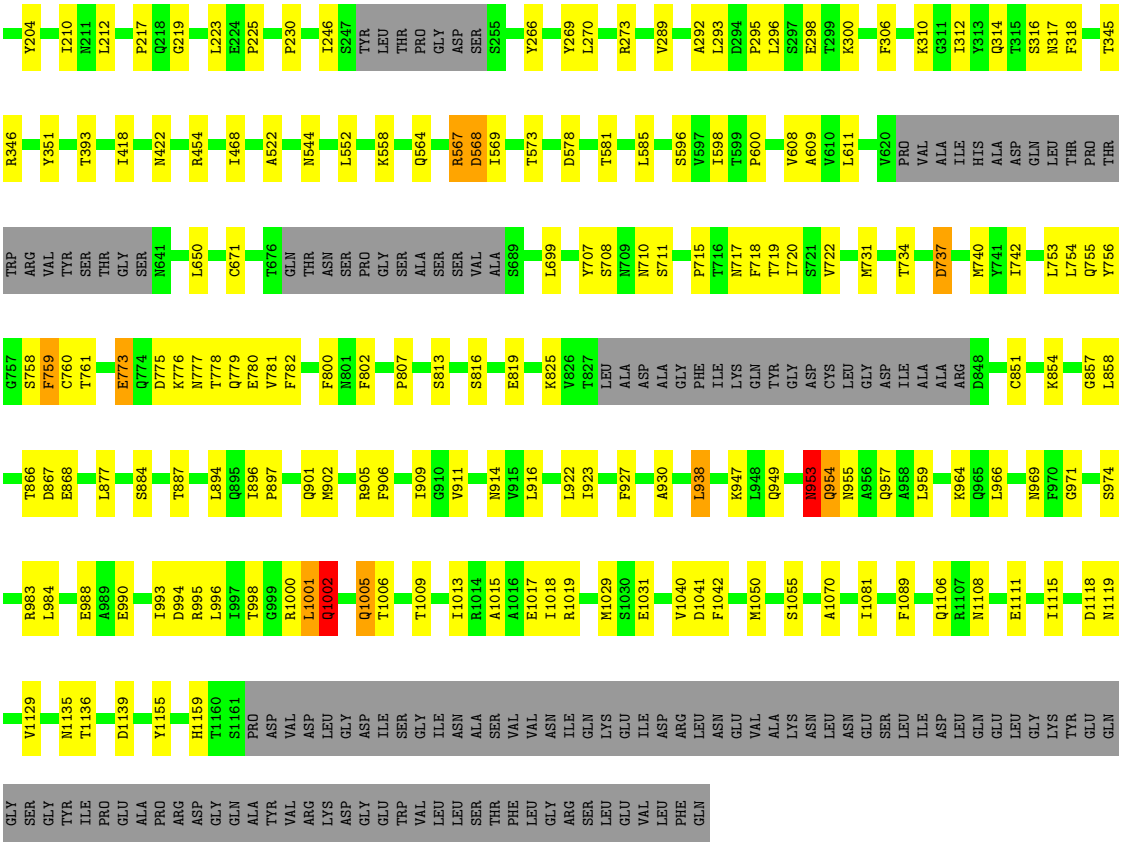
• Molecule 1: Spike glycoprotein,Fibritin

Chain 3-B:



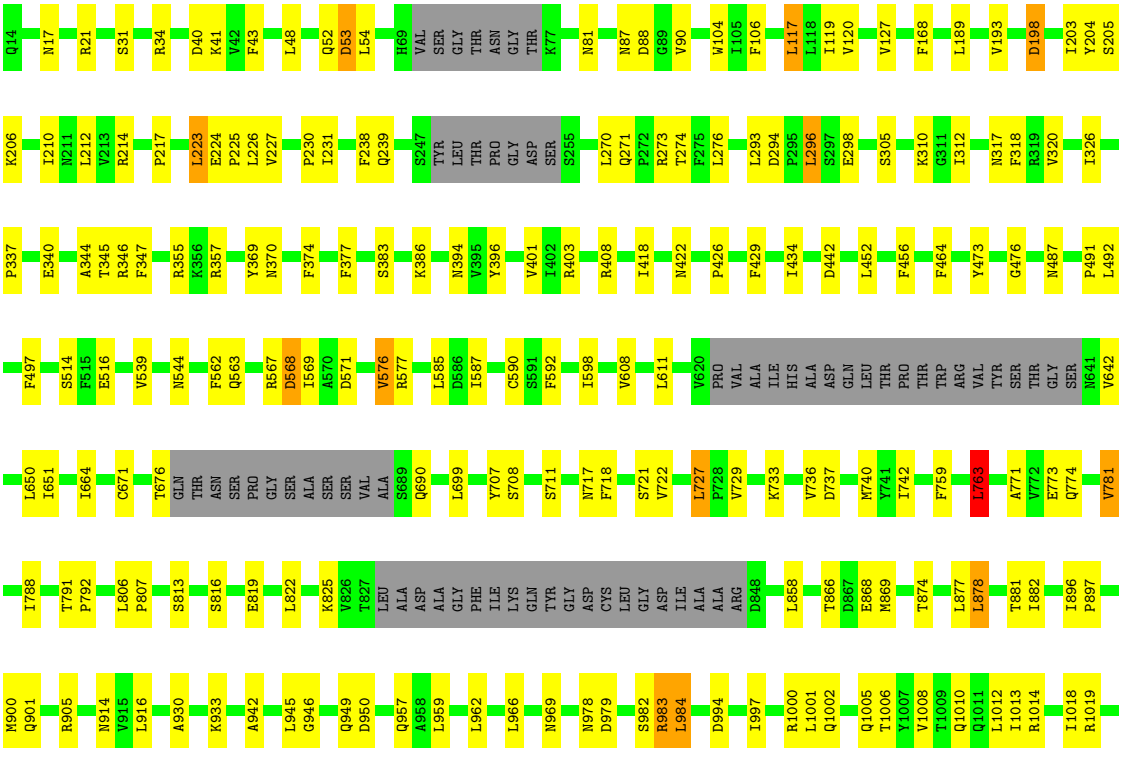
• Molecule 1: Spike glycoprotein,Fibritin

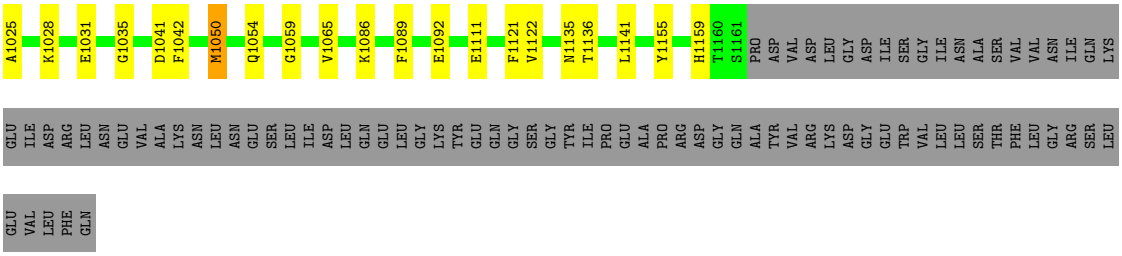
Chain 3-C:



• Molecule 1: Spike glycoprotein,Fibritin

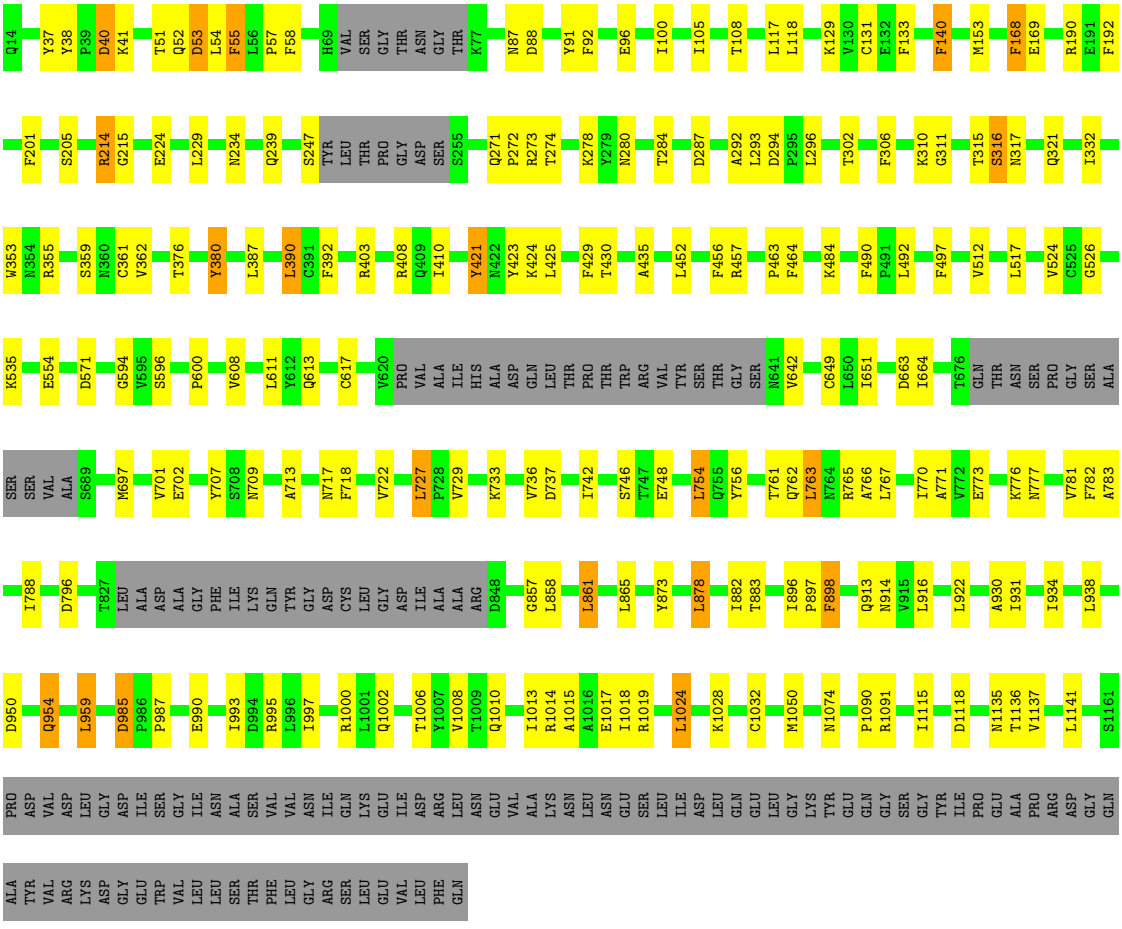
Chain 4-A:





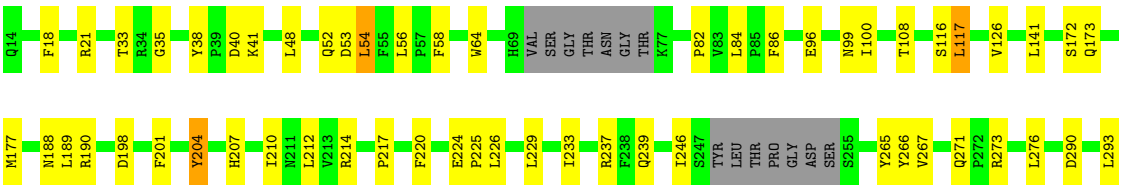
• Molecule 1: Spike glycoprotein,Fibritin

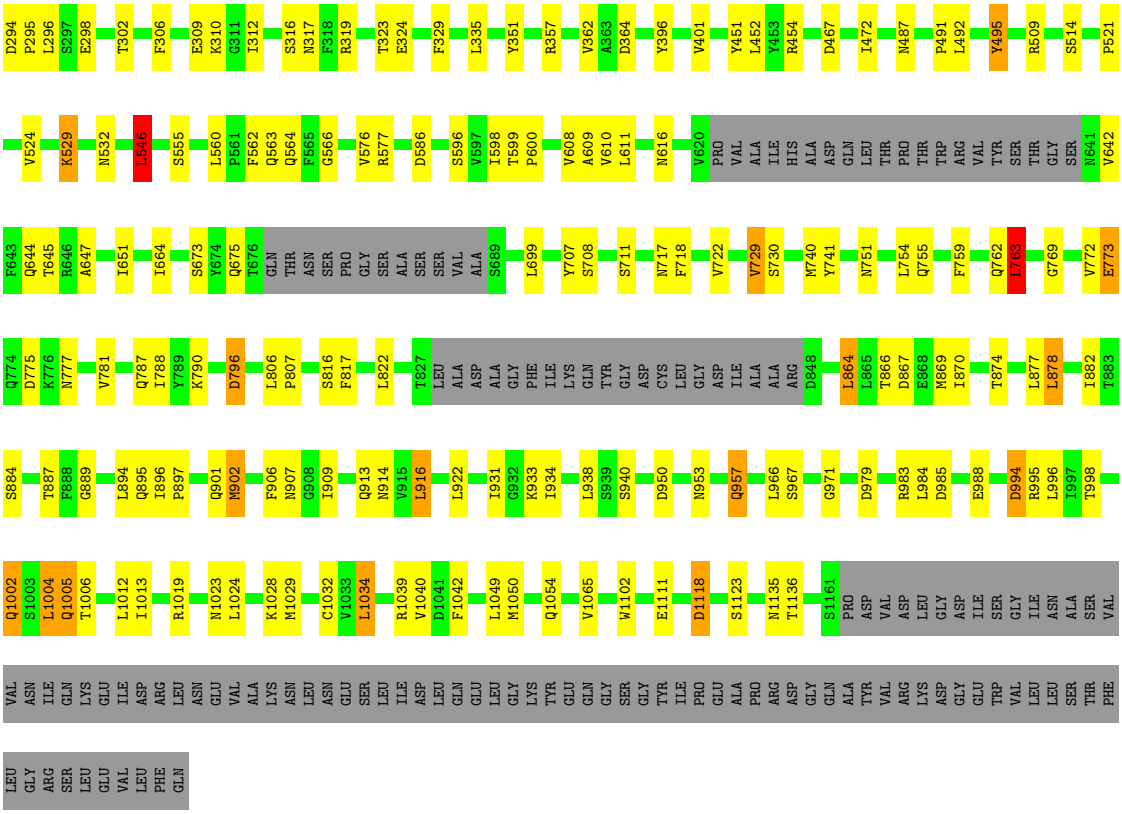
Chain 4-B:



• Molecule 1: Spike glycoprotein,Fibritin

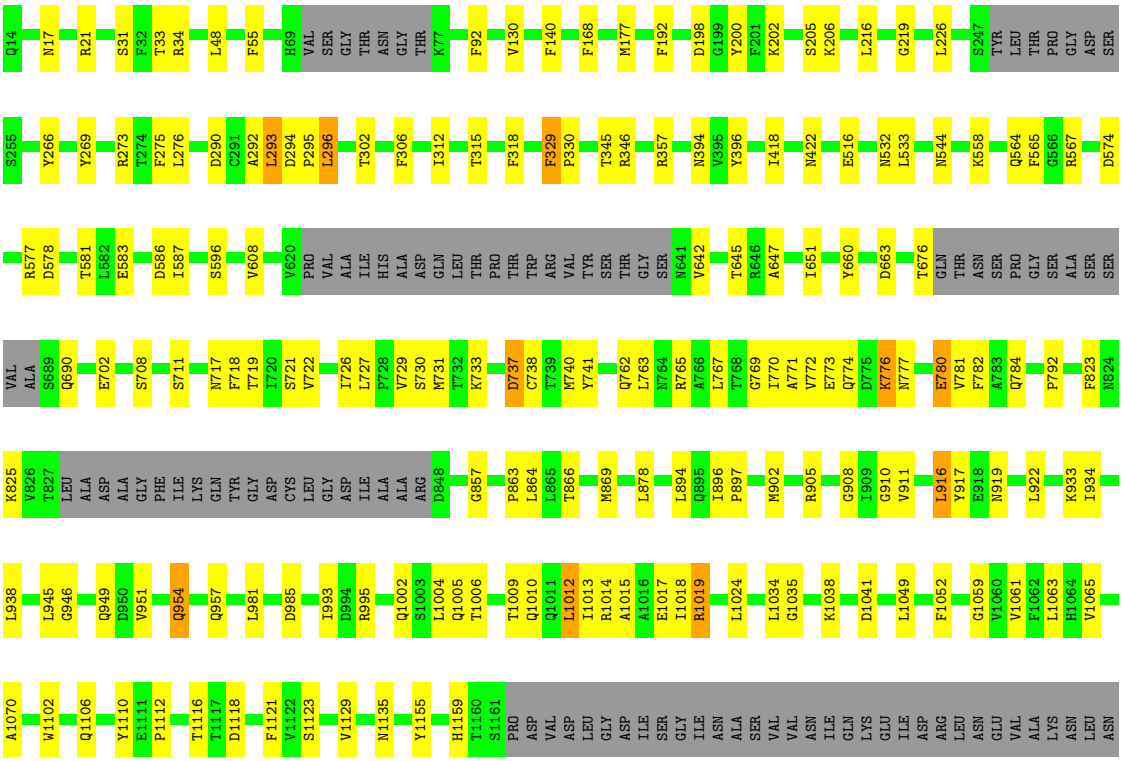
Chain 4-C:





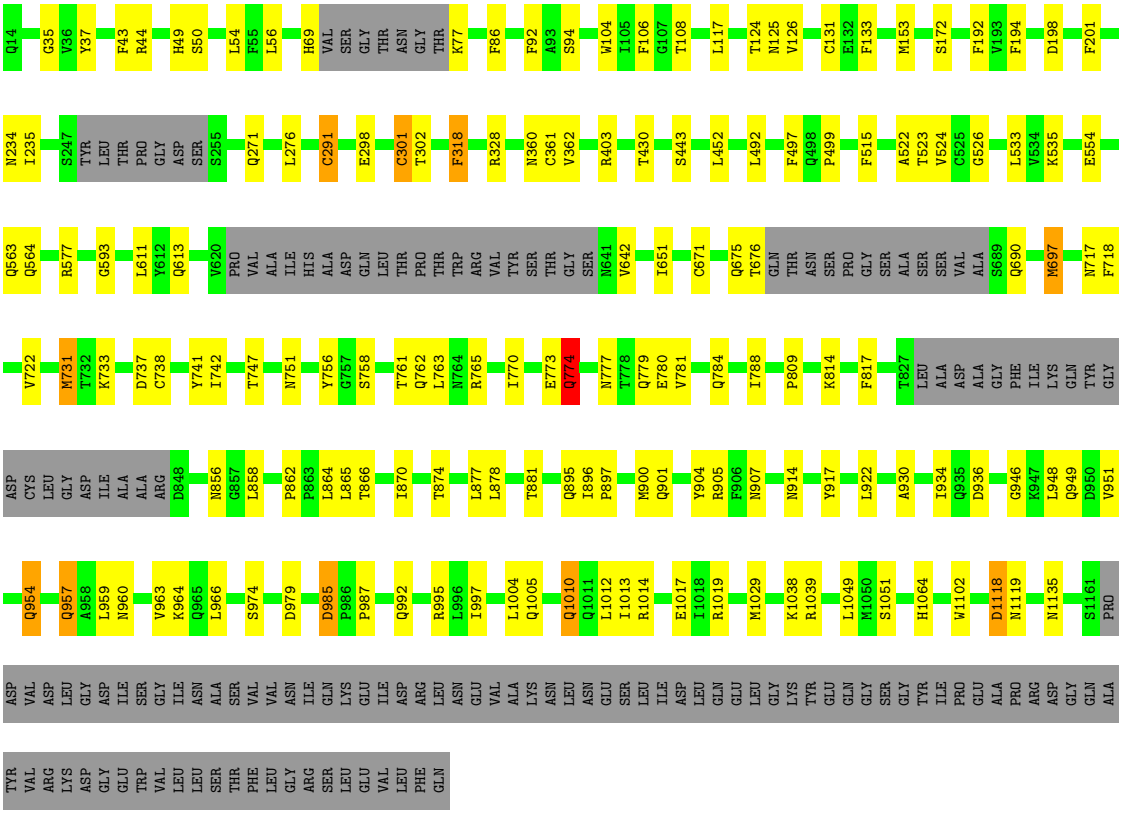
• Molecule 1: Spike glycoprotein,Fibritin

Chain 5-A:



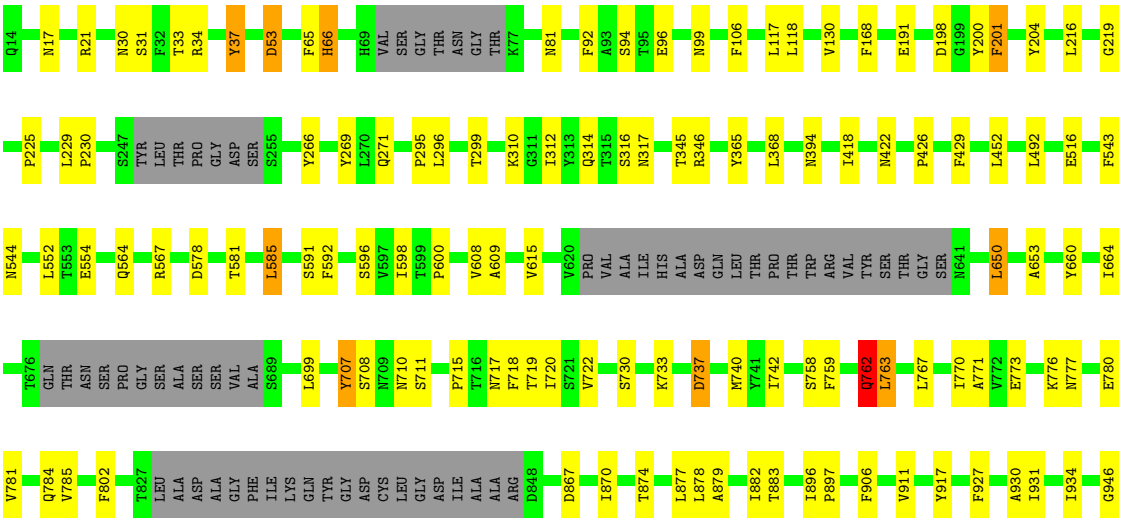
• Molecule 1: Spike glycoprotein,Fibritin

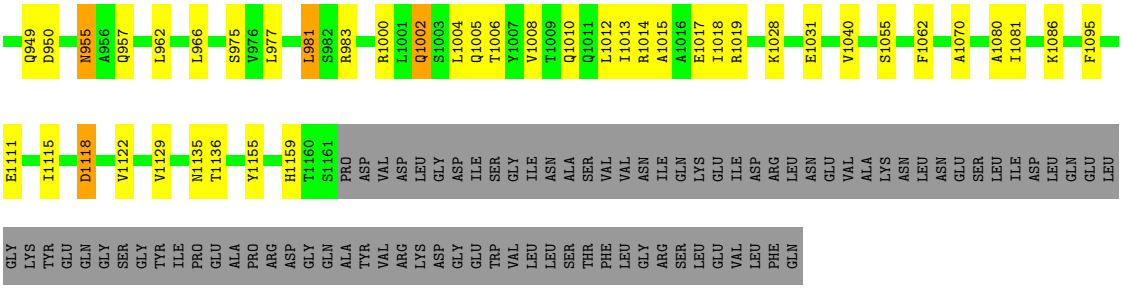
Chain 5-B:



• Molecule 1: Spike glycoprotein,Fibritin

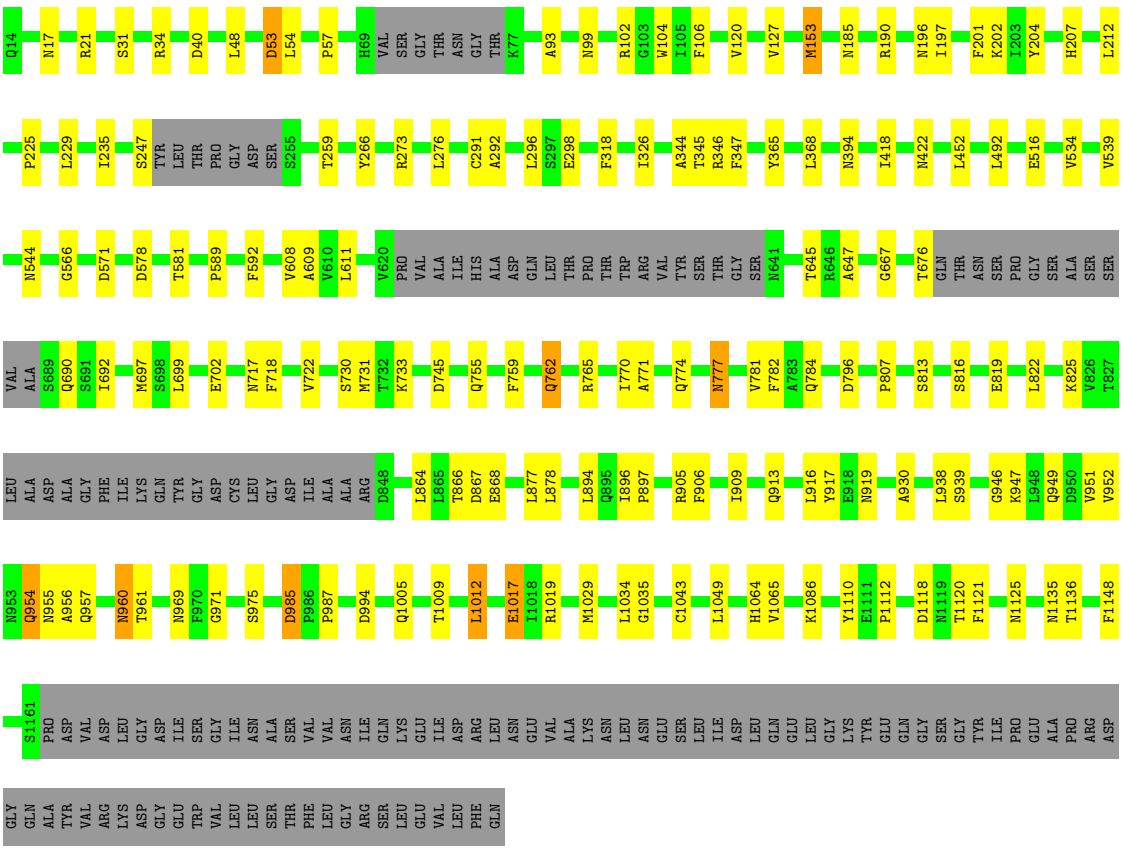
Chain 5-C:





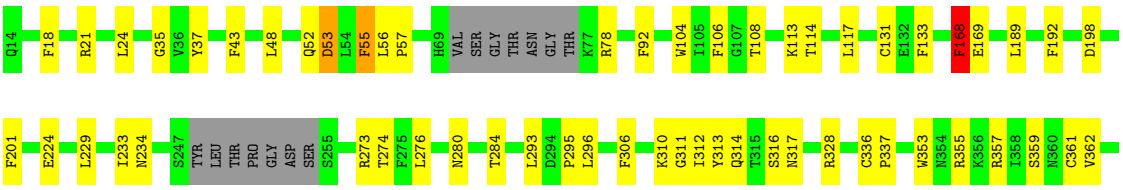
• Molecule 1: Spike glycoprotein,Fibritin

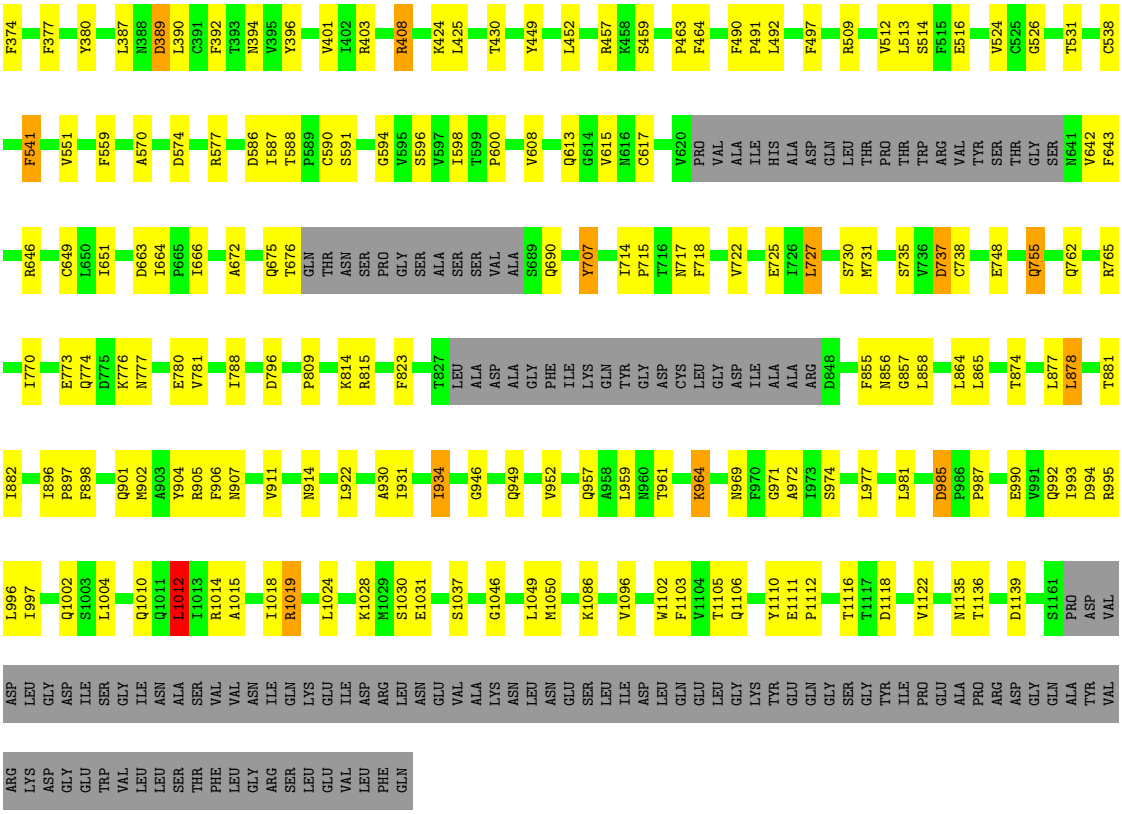
Chain 6-A:



• Molecule 1: Spike glycoprotein,Fibritin

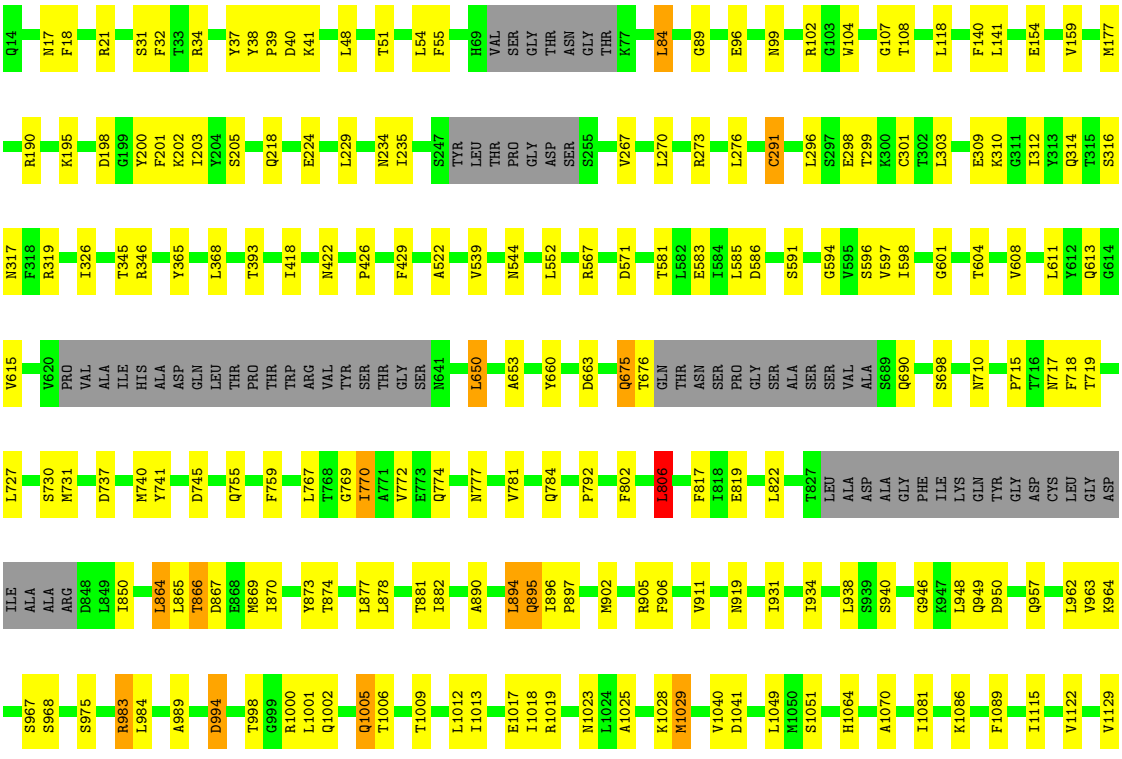
Chain 6-B:

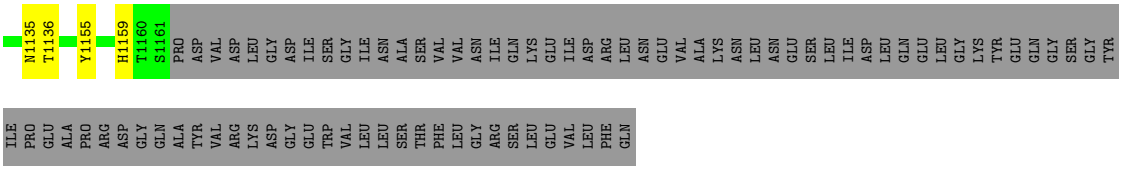




• Molecule 1: Spike glycoprotein,Fibritin

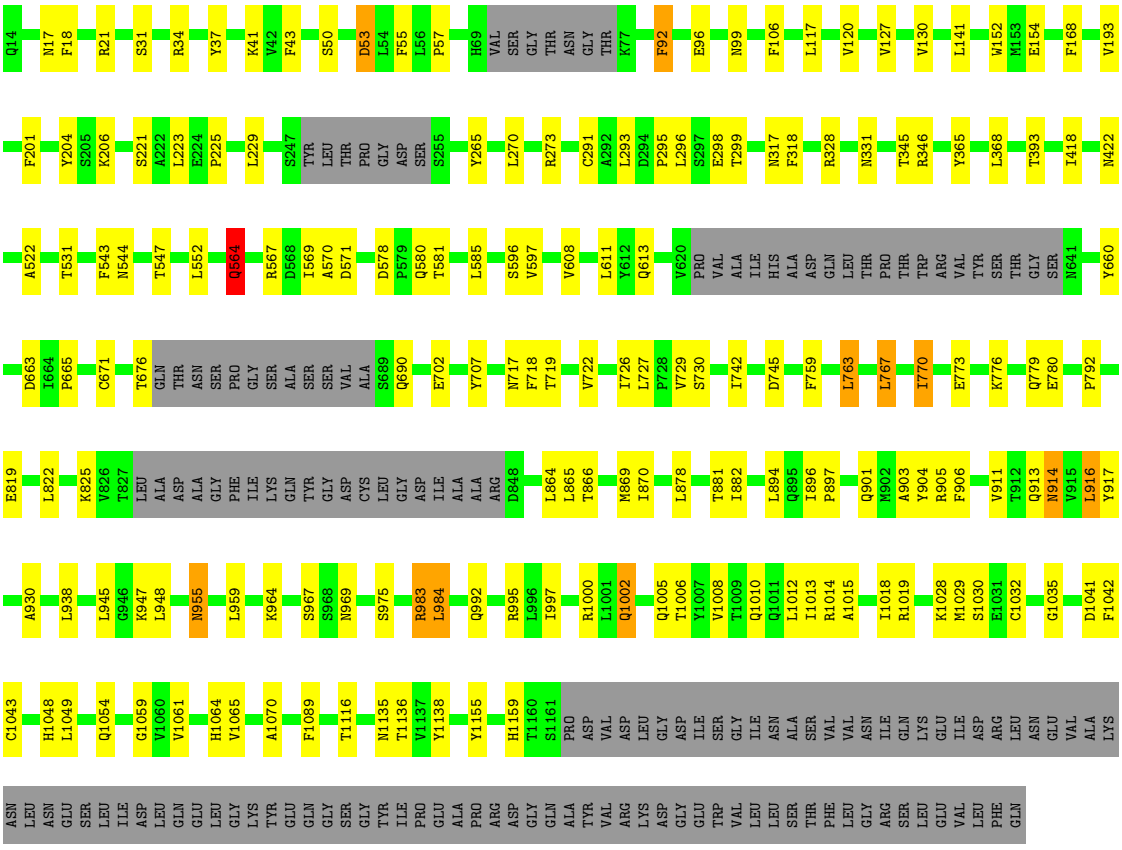
Chain 6-C:





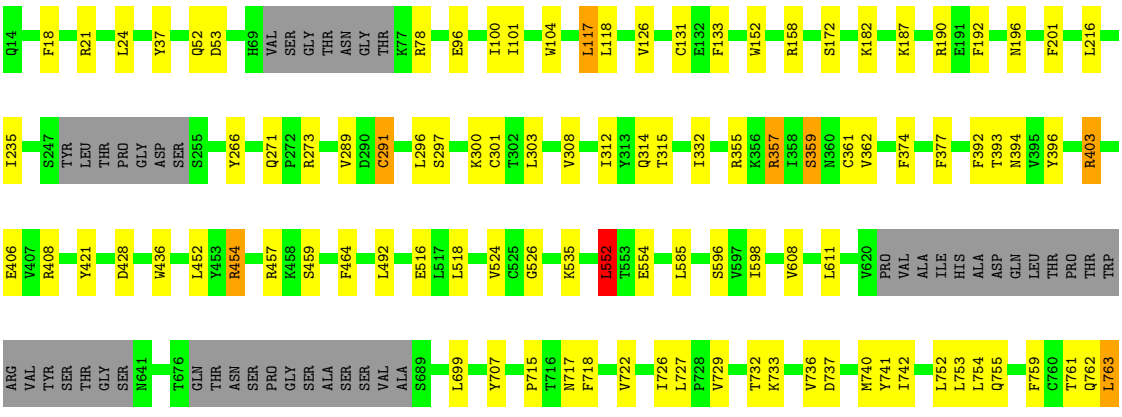
• Molecule 1: Spike glycoprotein,Fibritin

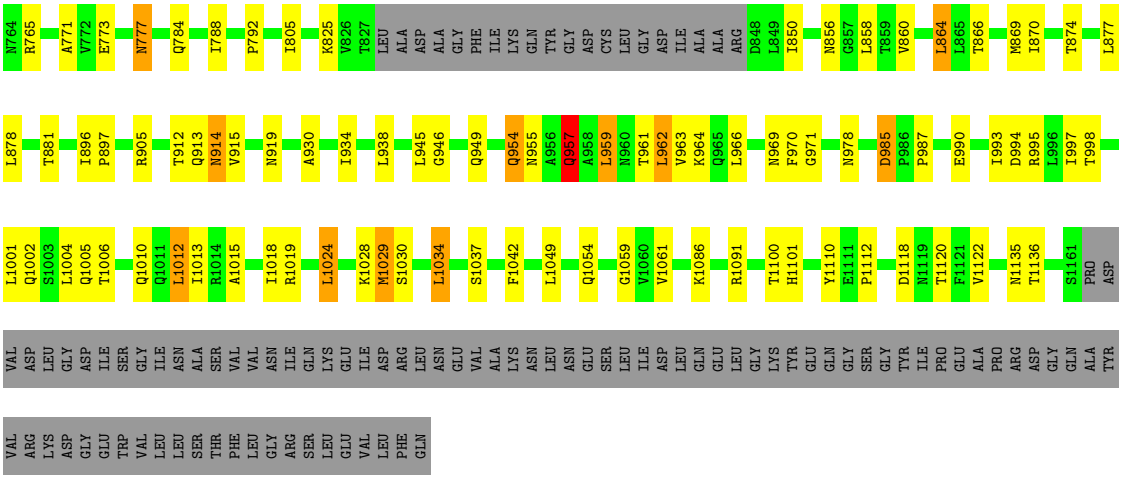
Chain 7-A:



• Molecule 1: Spike glycoprotein,Fibritin

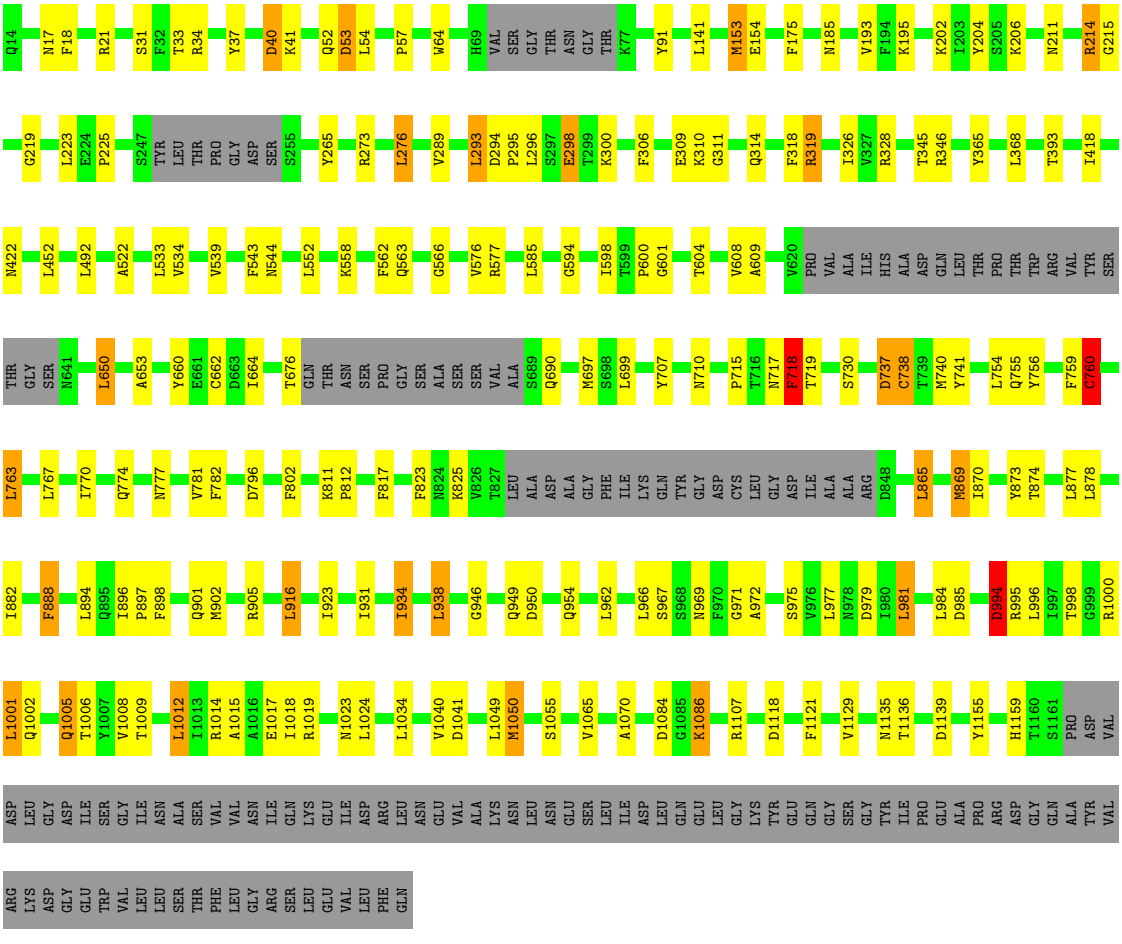
Chain 7-B:





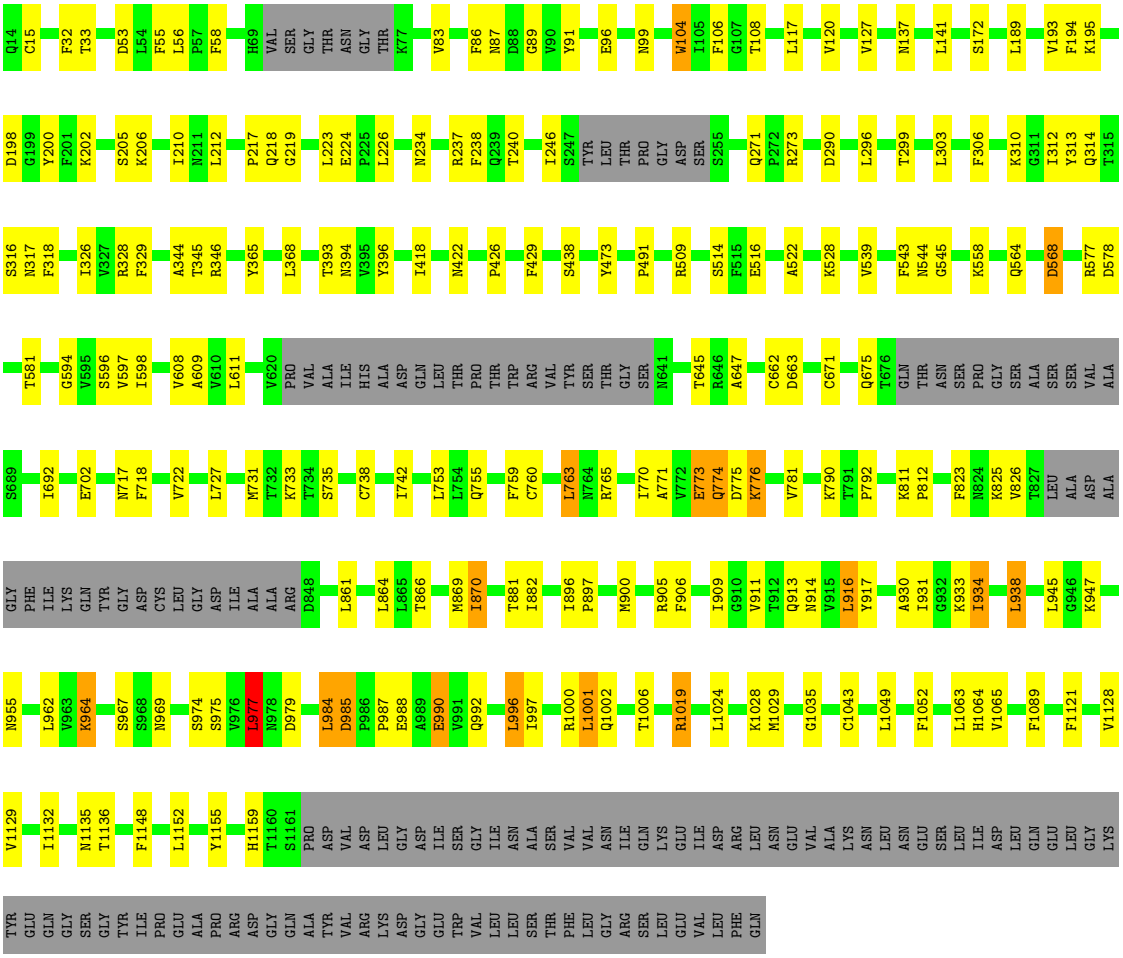
• Molecule 1: Spike glycoprotein,Fibritin

Chain 7-C:



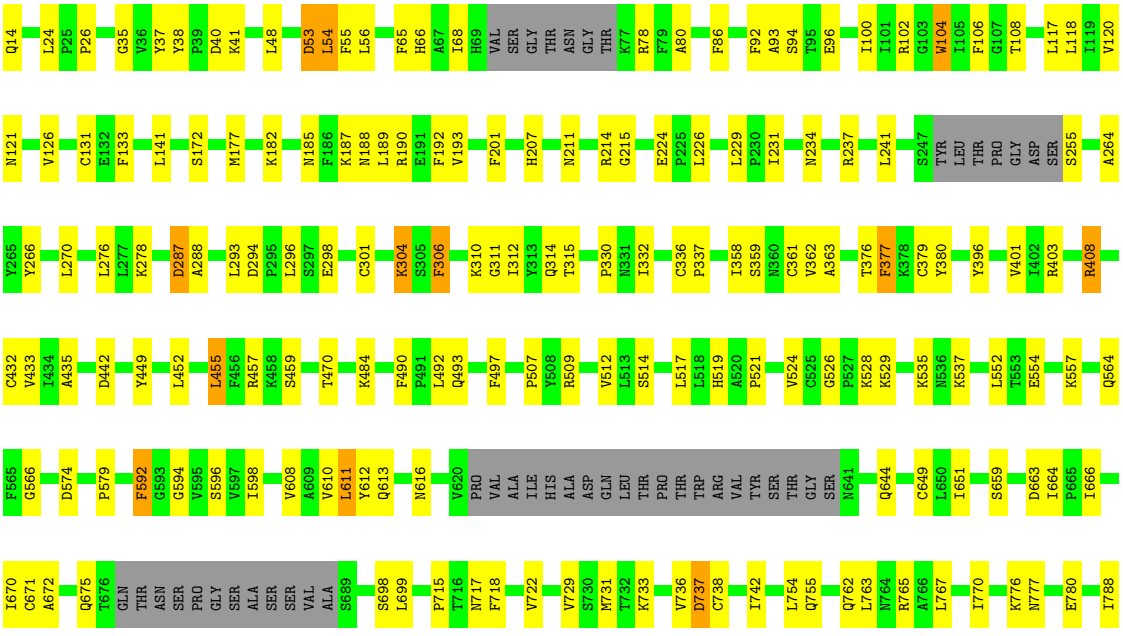
• Molecule 1: Spike glycoprotein,Fibritin

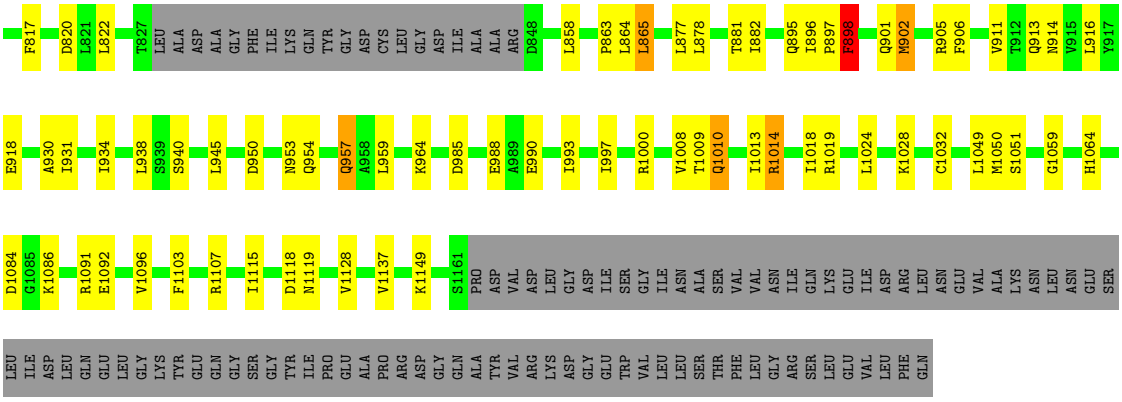
Chain 8-A:



• Molecule 1: Spike glycoprotein,Fibritin

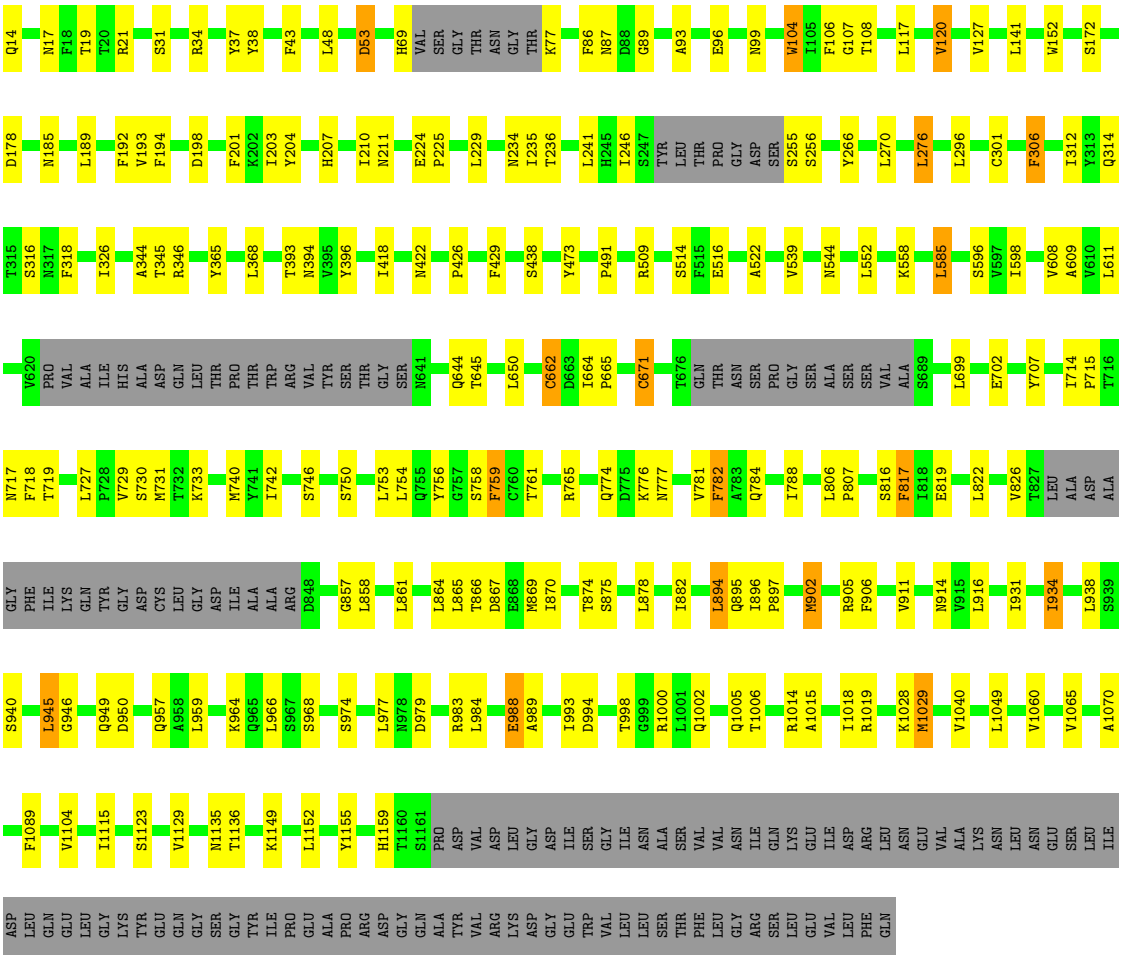
Chain 8-B:





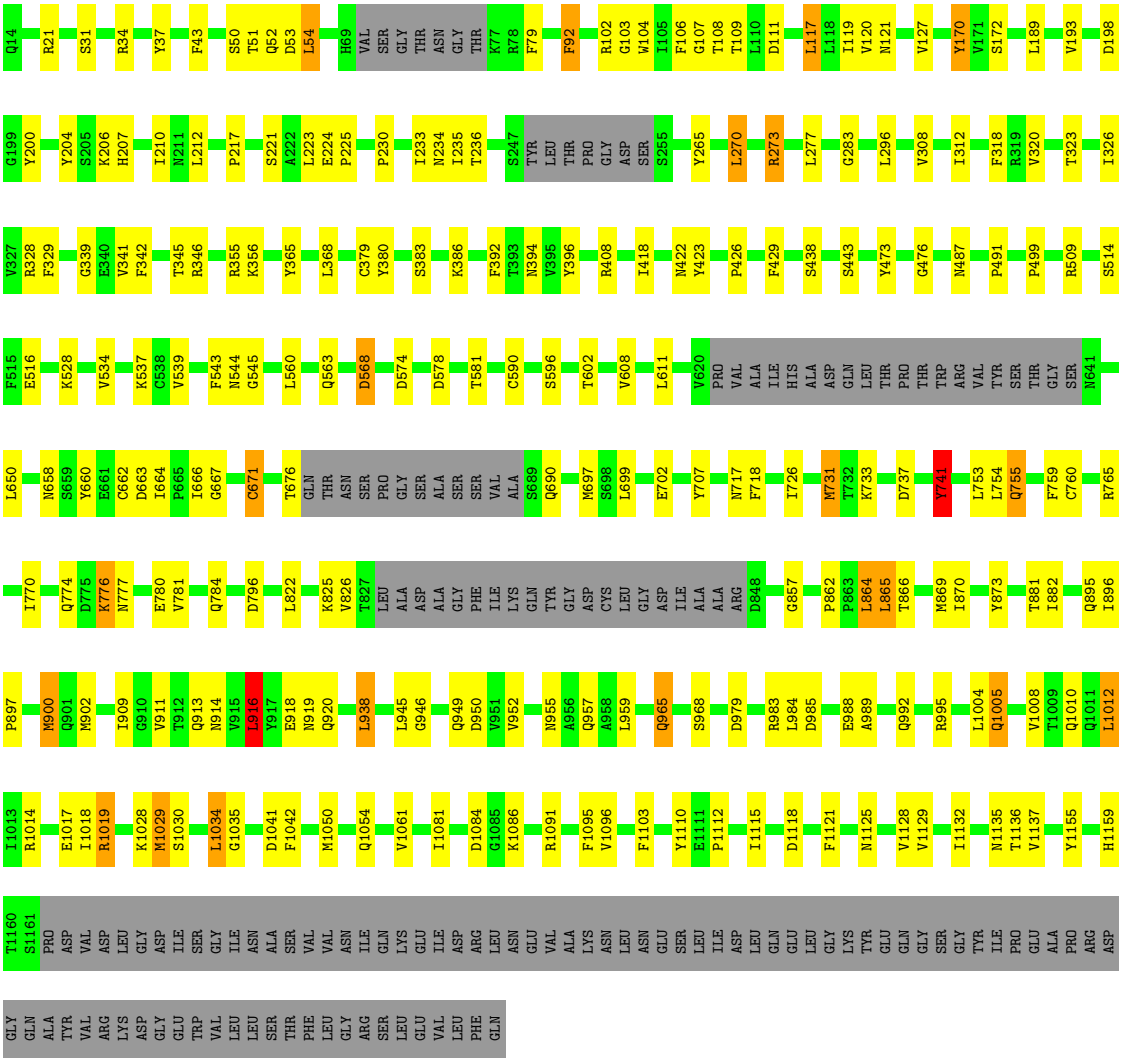
• Molecule 1: Spike glycoprotein,Fibritin

Chain 8-C:



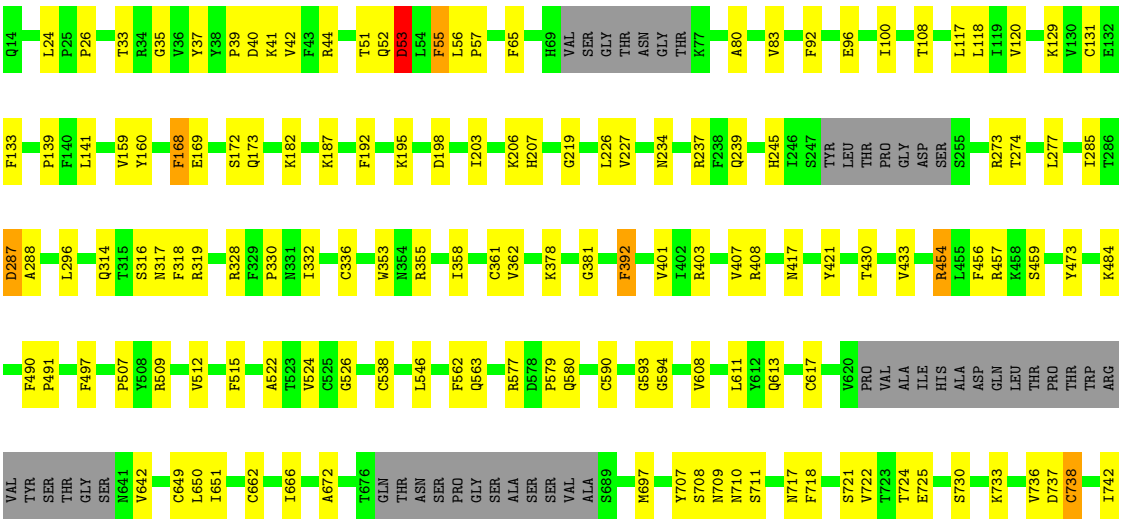
• Molecule 1: Spike glycoprotein,Fibritin

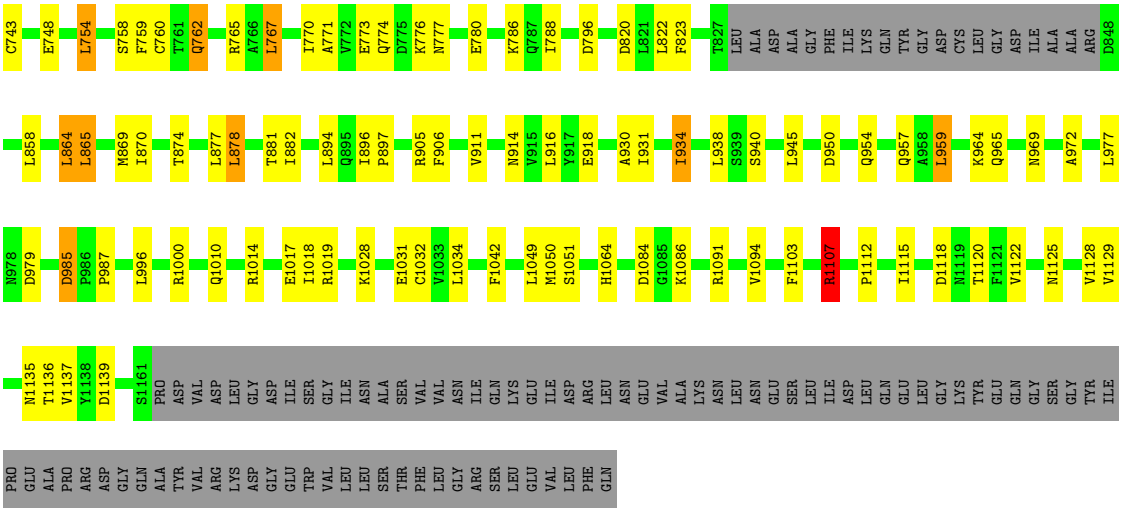
Chain 9-A:



• Molecule 1: Spike glycoprotein,Fibritin

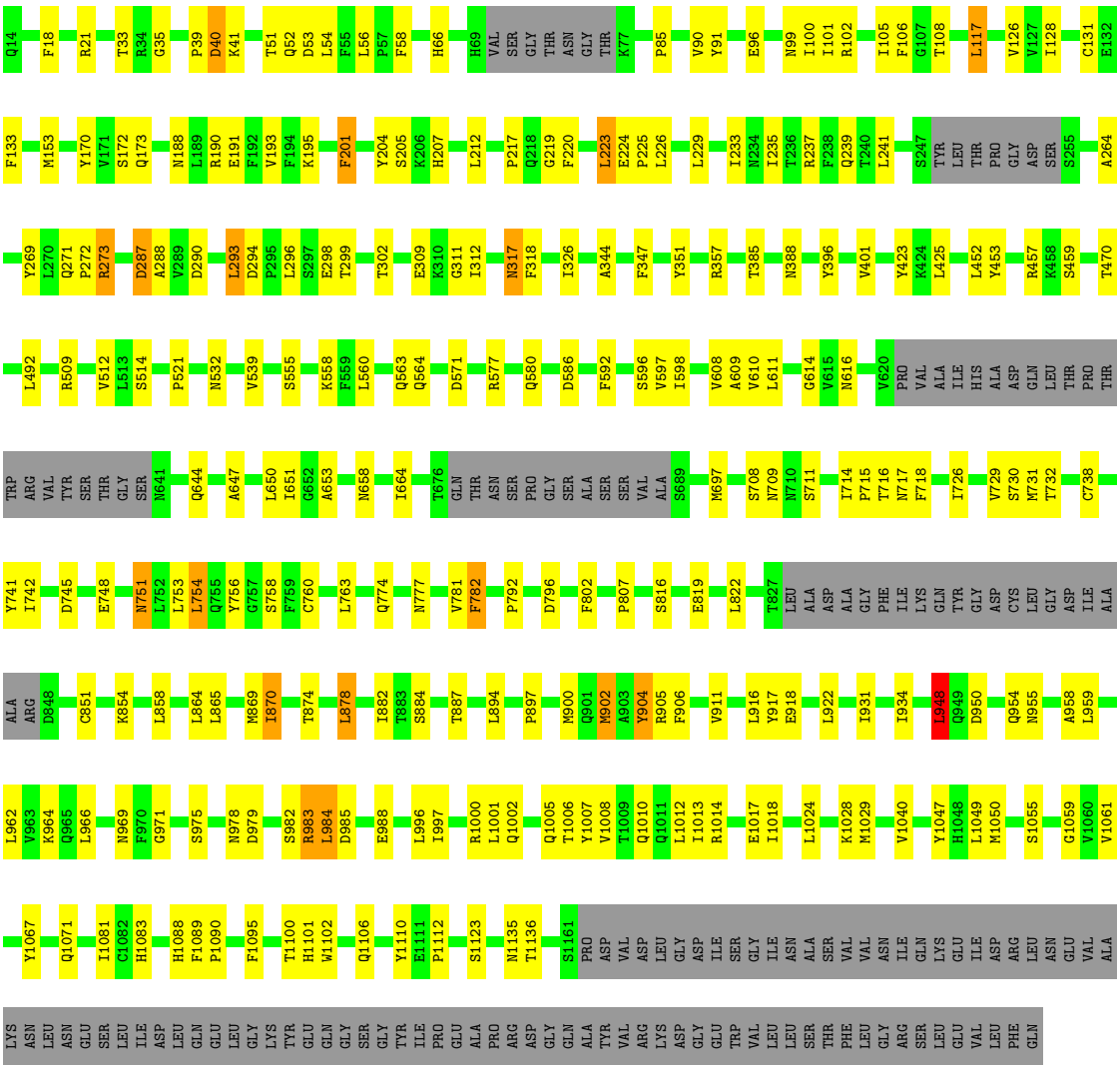
Chain 9-B:





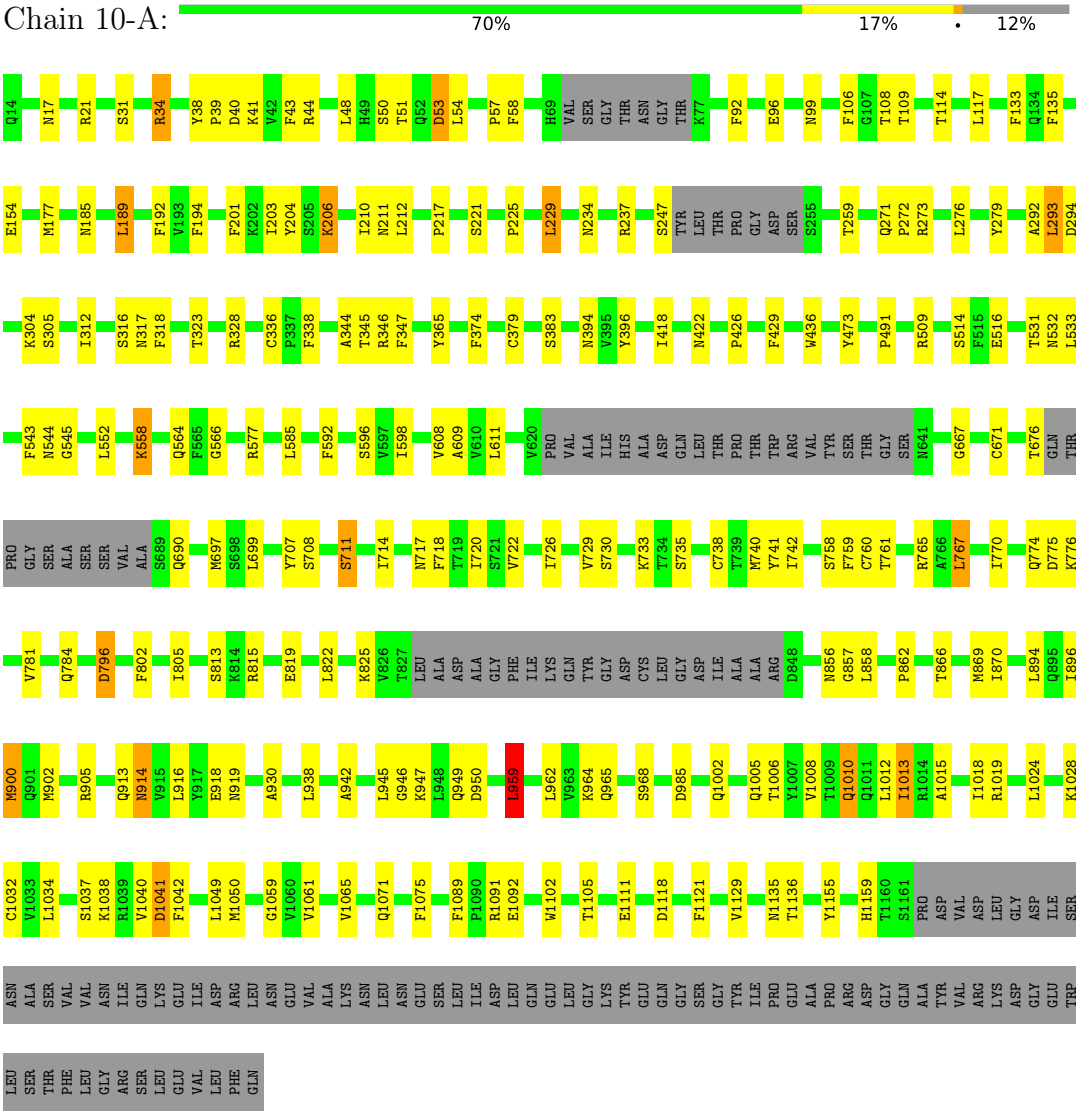
• Molecule 1: Spike glycoprotein,Fibritin

Chain 9-C:



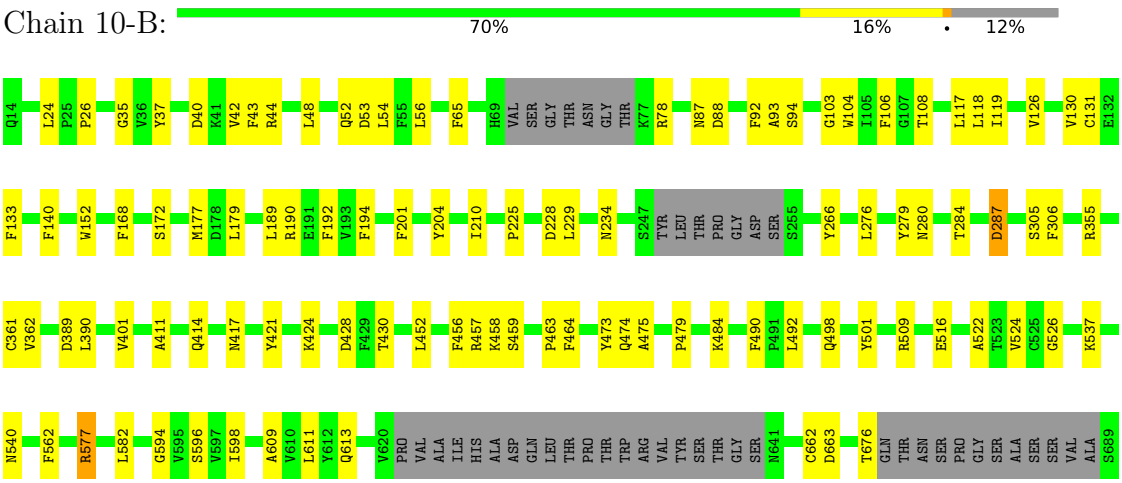
• Molecule 1: Spike glycoprotein,Fibritin

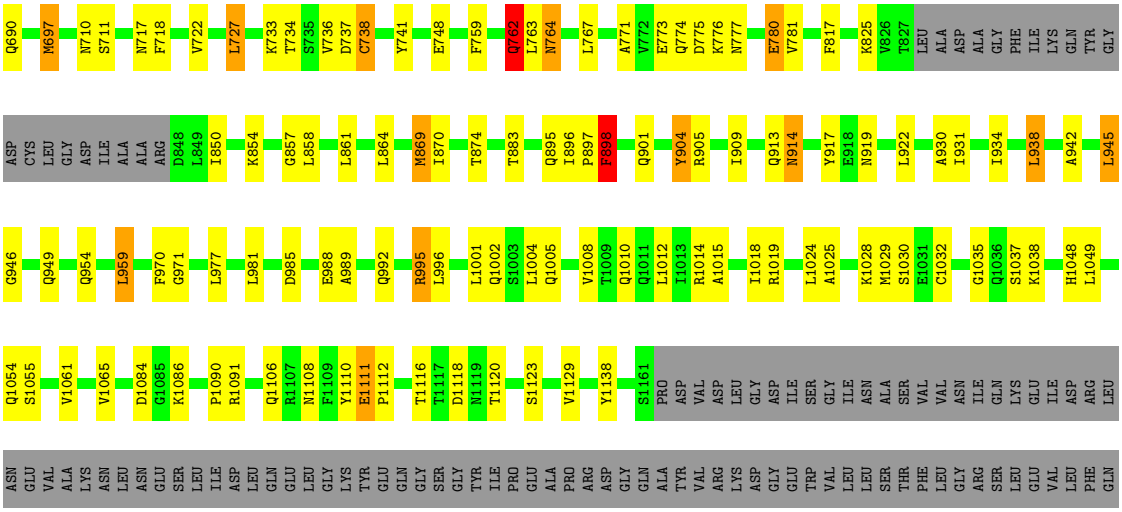
Chain 10-A:



• Molecule 1: Spike glycoprotein,Fibritin

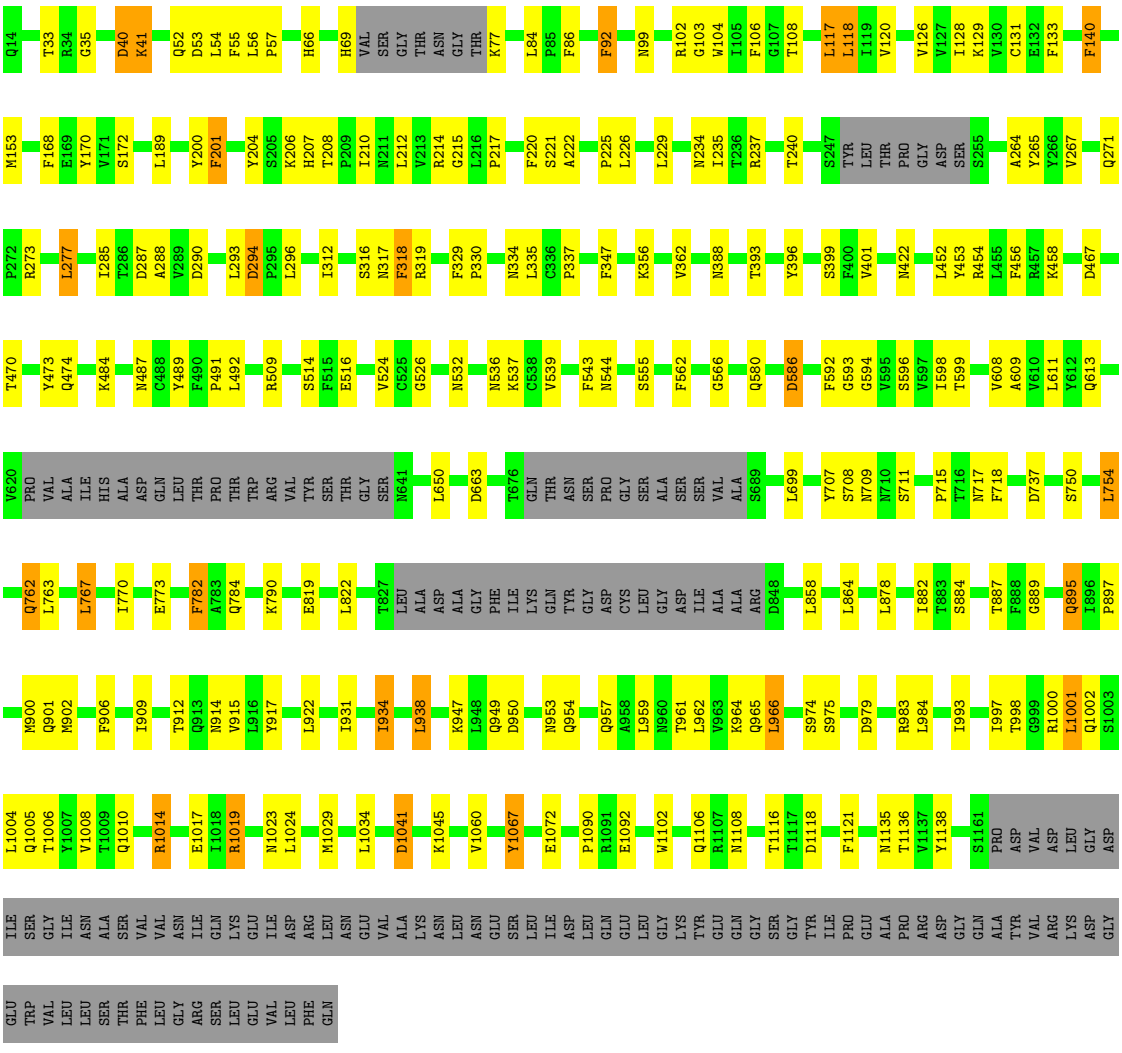
Chain 10-B:





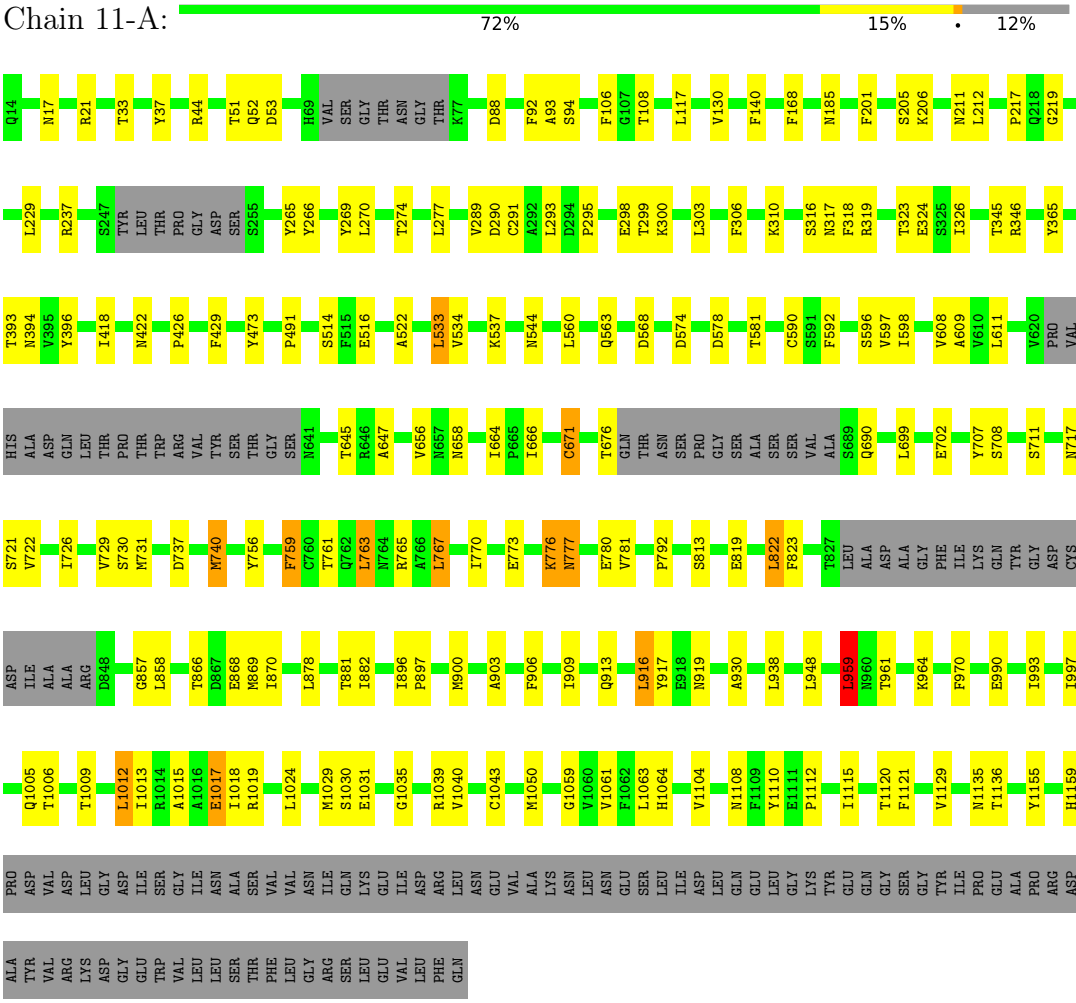
• Molecule 1: Spike glycoprotein,Fibritin

Chain 10-C:



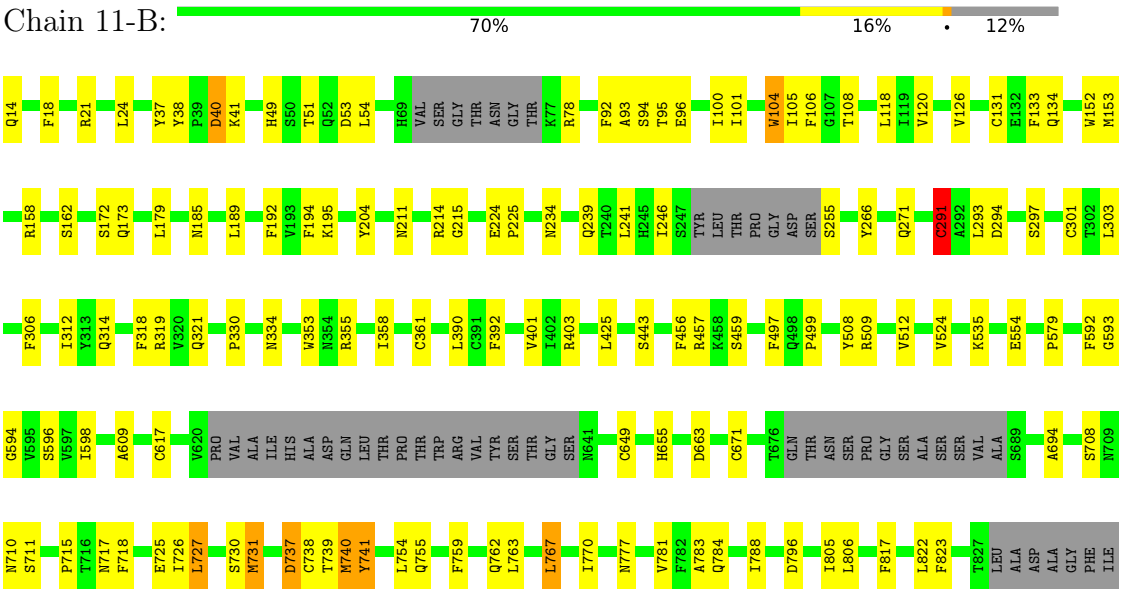
• Molecule 1: Spike glycoprotein,Fibritin

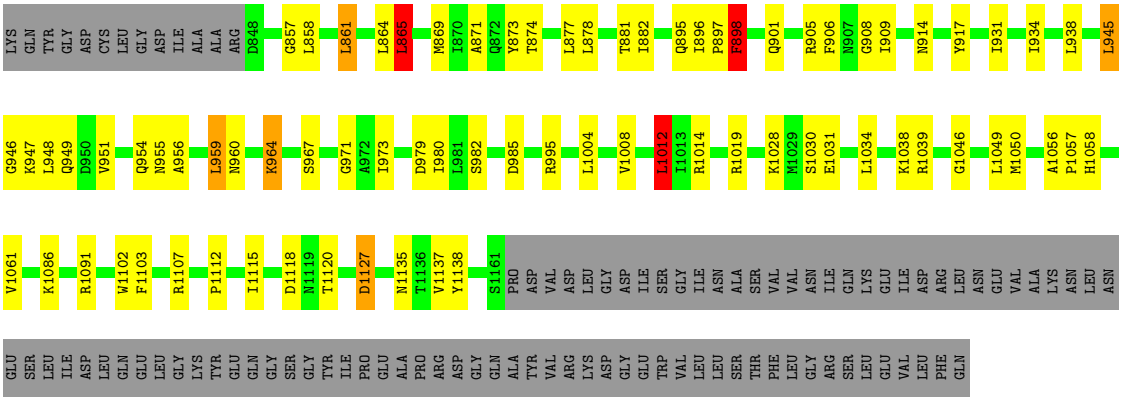
Chain 11-A:



• Molecule 1: Spike glycoprotein,Fibritin

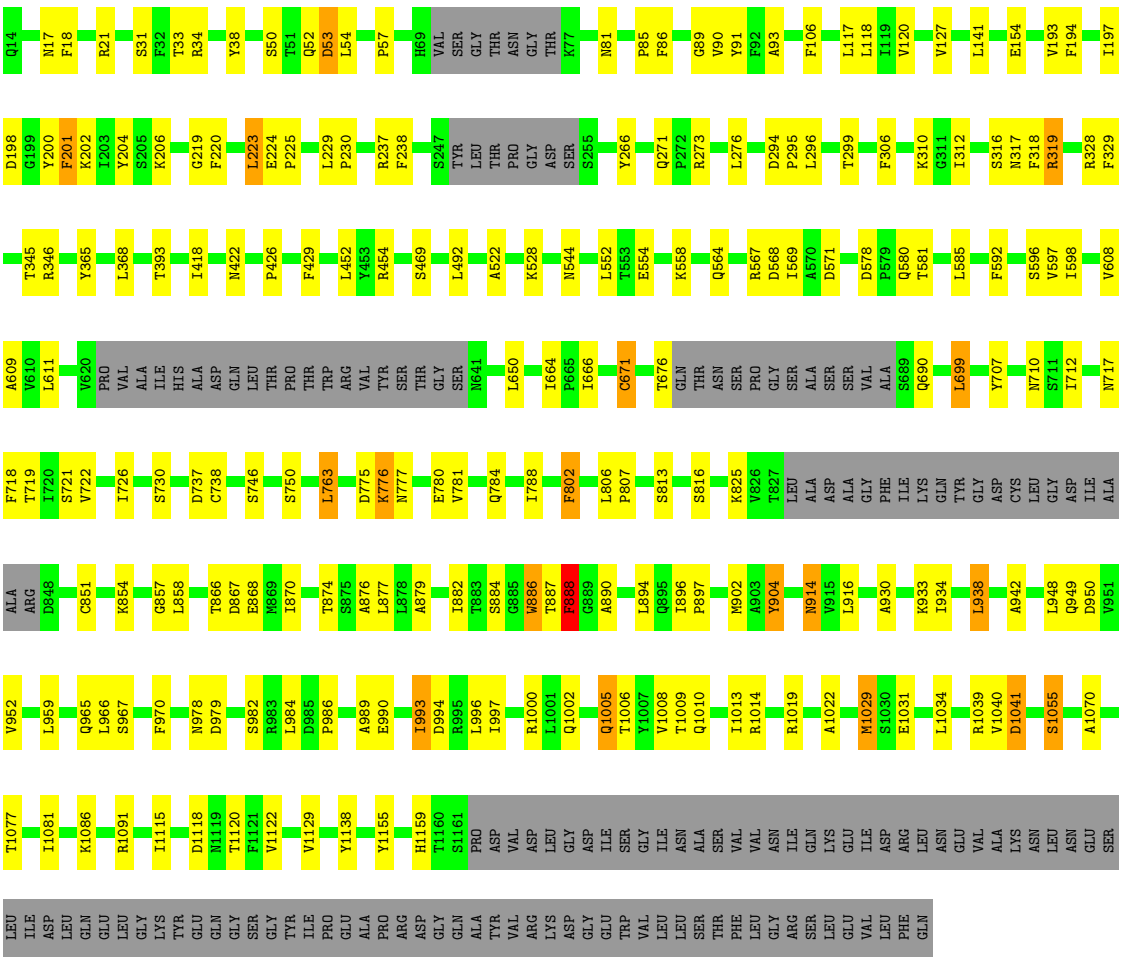
Chain 11-B:





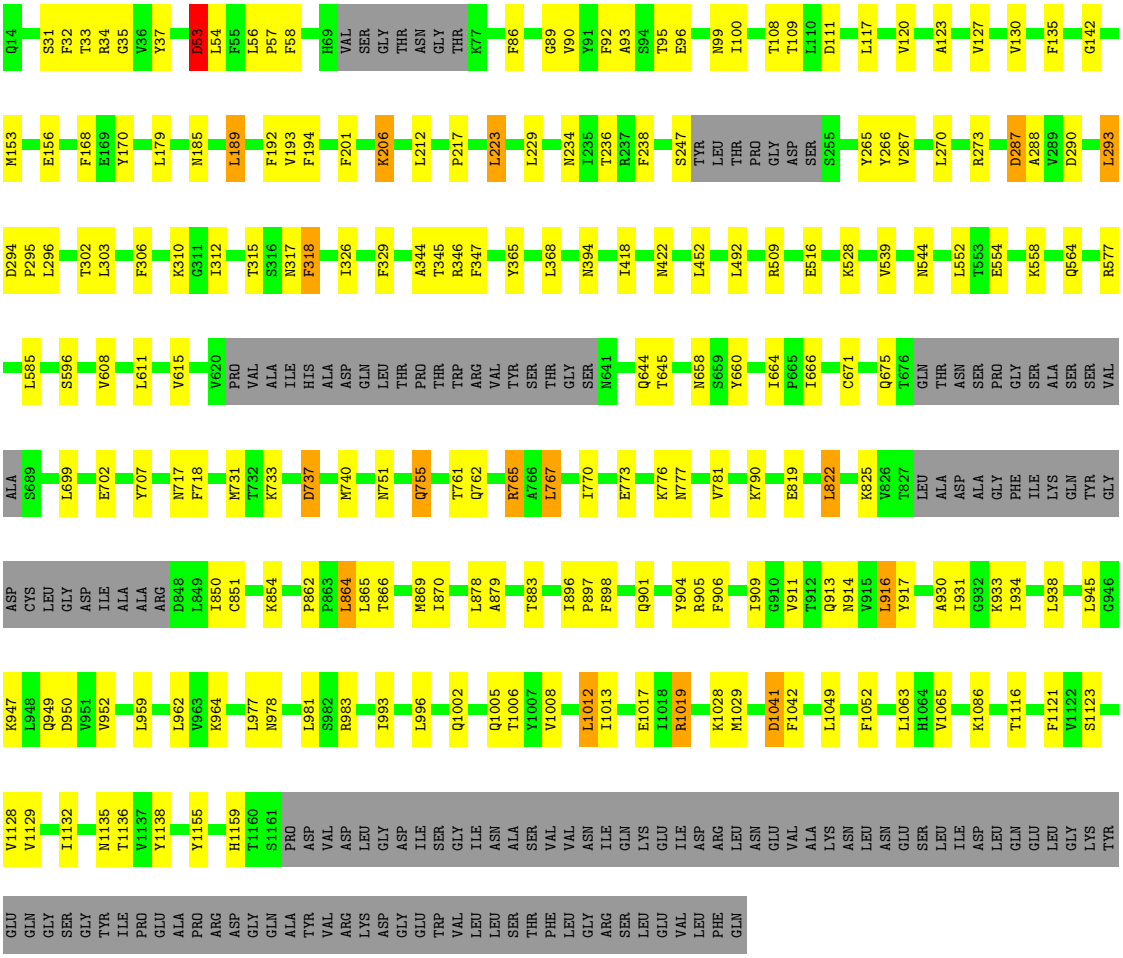
• Molecule 1: Spike glycoprotein,Fibritin

Chain 11-C:



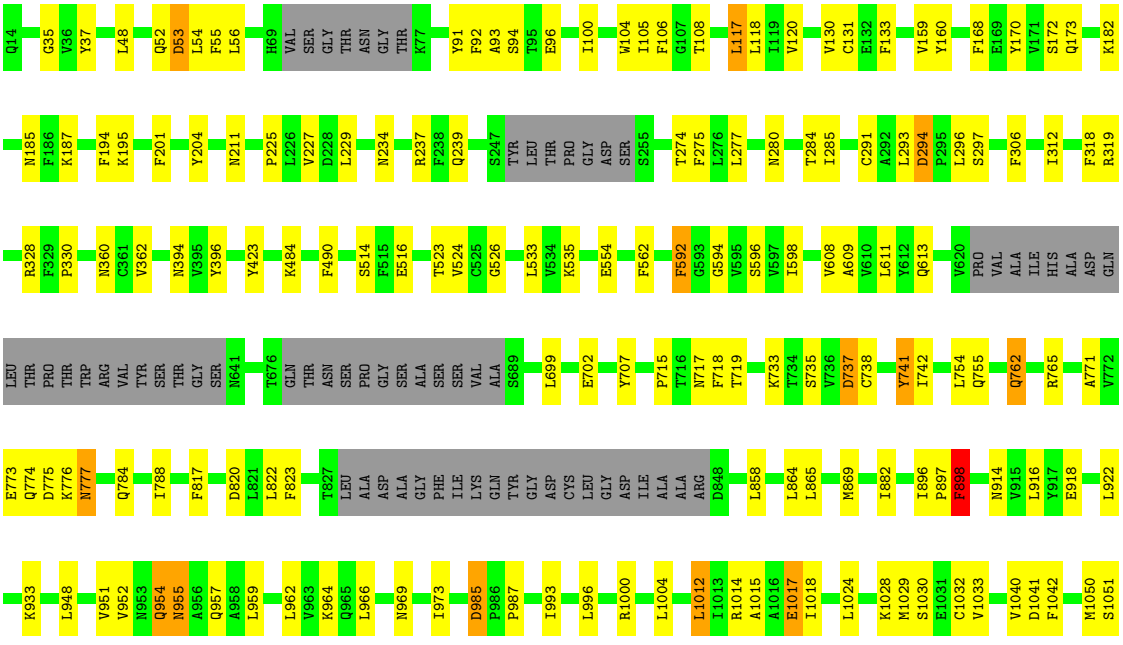
• Molecule 1: Spike glycoprotein,Fibritin

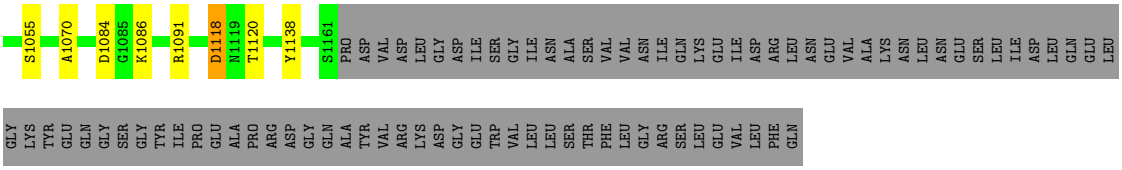
Chain 12-A:



• Molecule 1: Spike glycoprotein,Fibritin

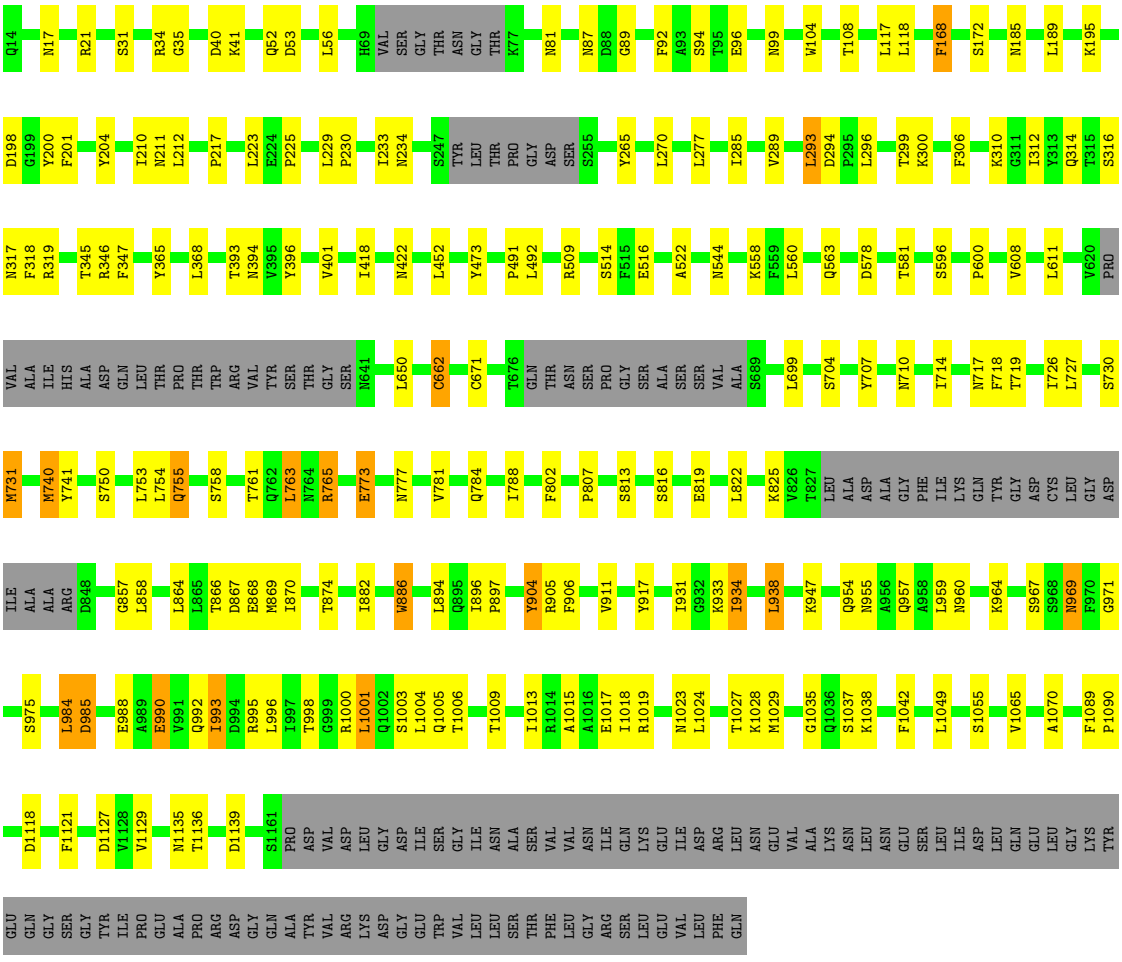
Chain 12-B:





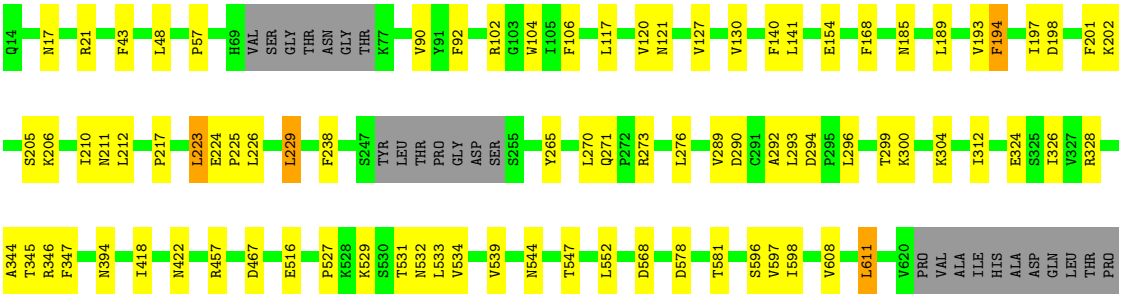
• Molecule 1: Spike glycoprotein,Fibritin

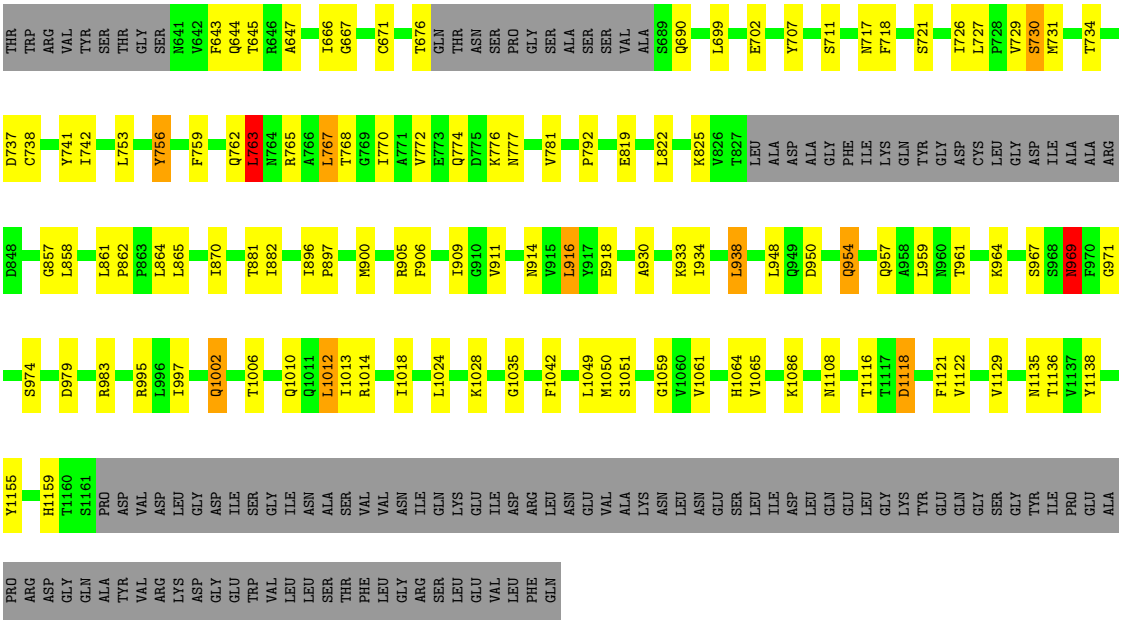
Chain 12-C:



• Molecule 1: Spike glycoprotein,Fibritin

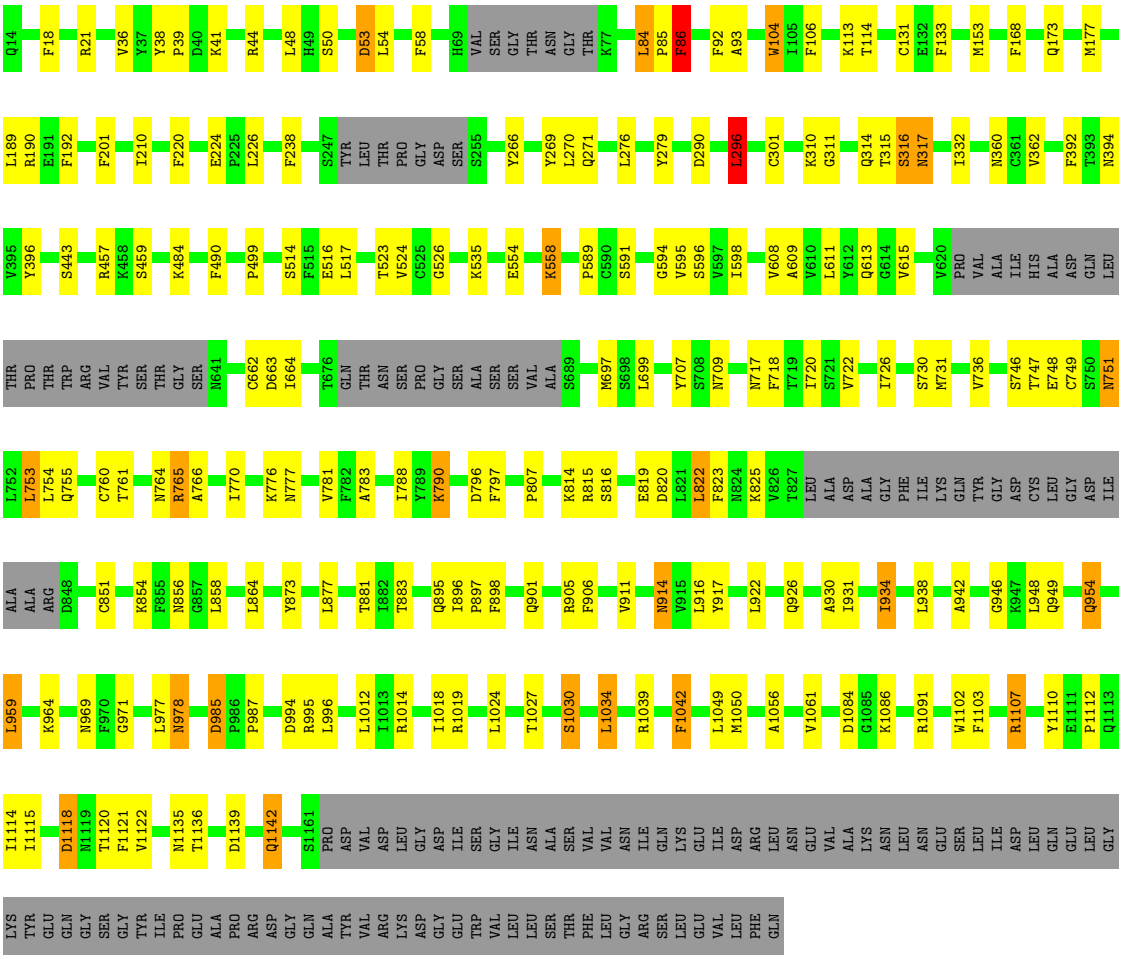
Chain 13-A:





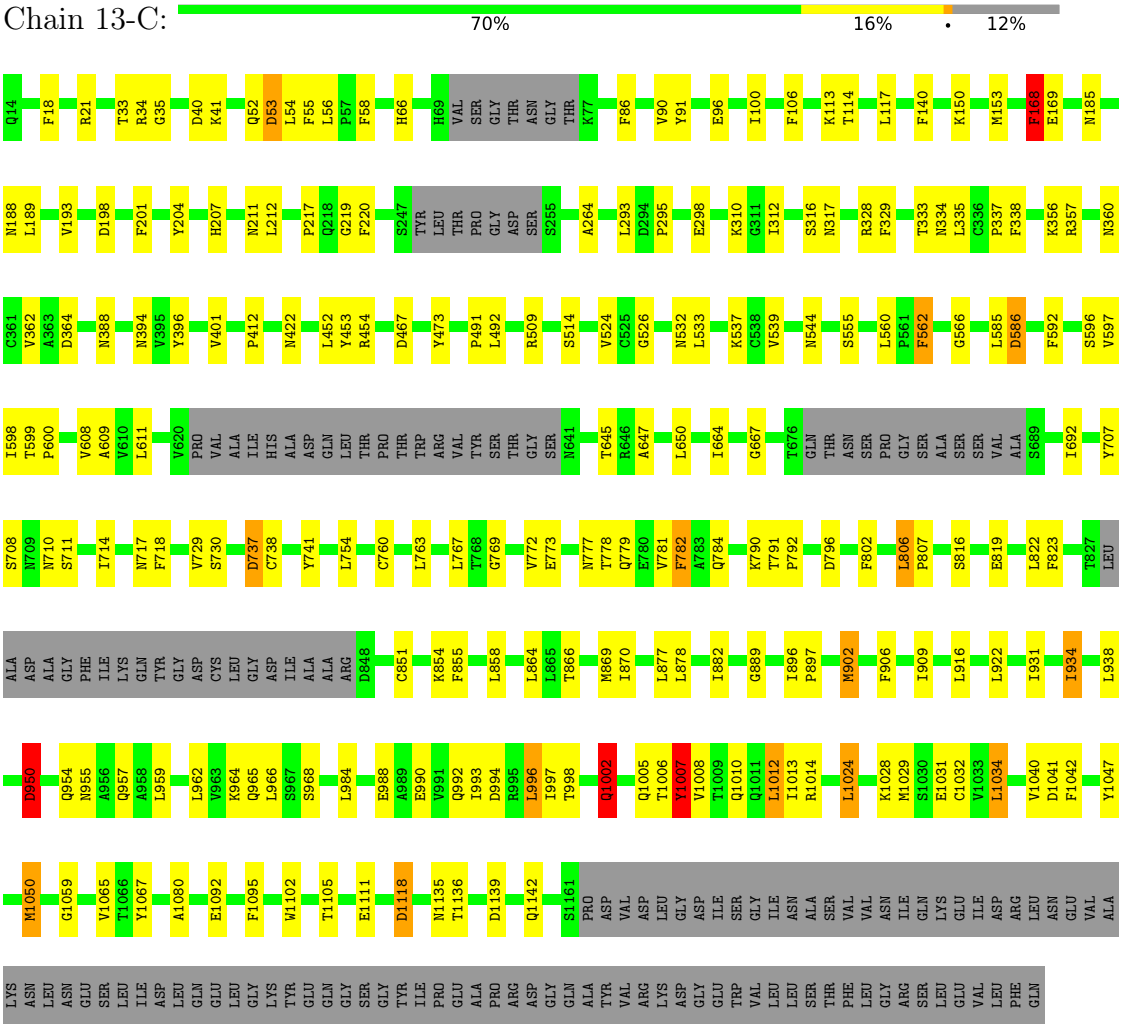
• Molecule 1: Spike glycoprotein,Fibritin

Chain 13-B:



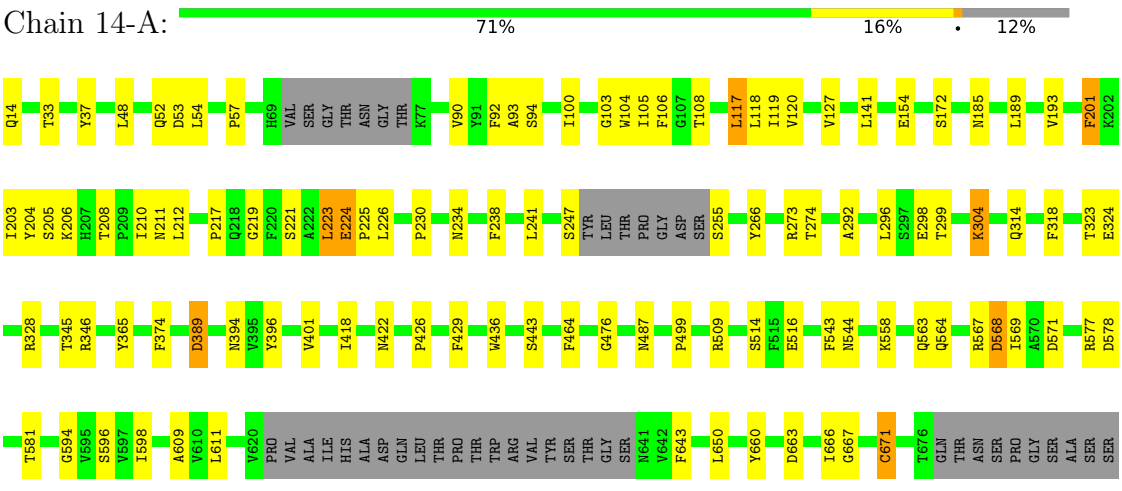
• Molecule 1: Spike glycoprotein,Fibritin

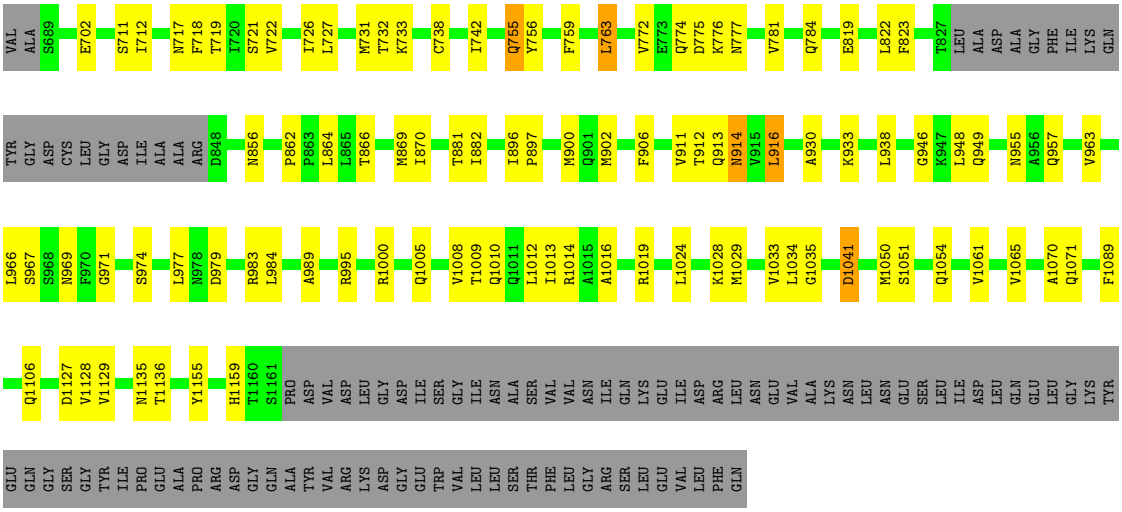
Chain 13-C:



• Molecule 1: Spike glycoprotein,Fibritin

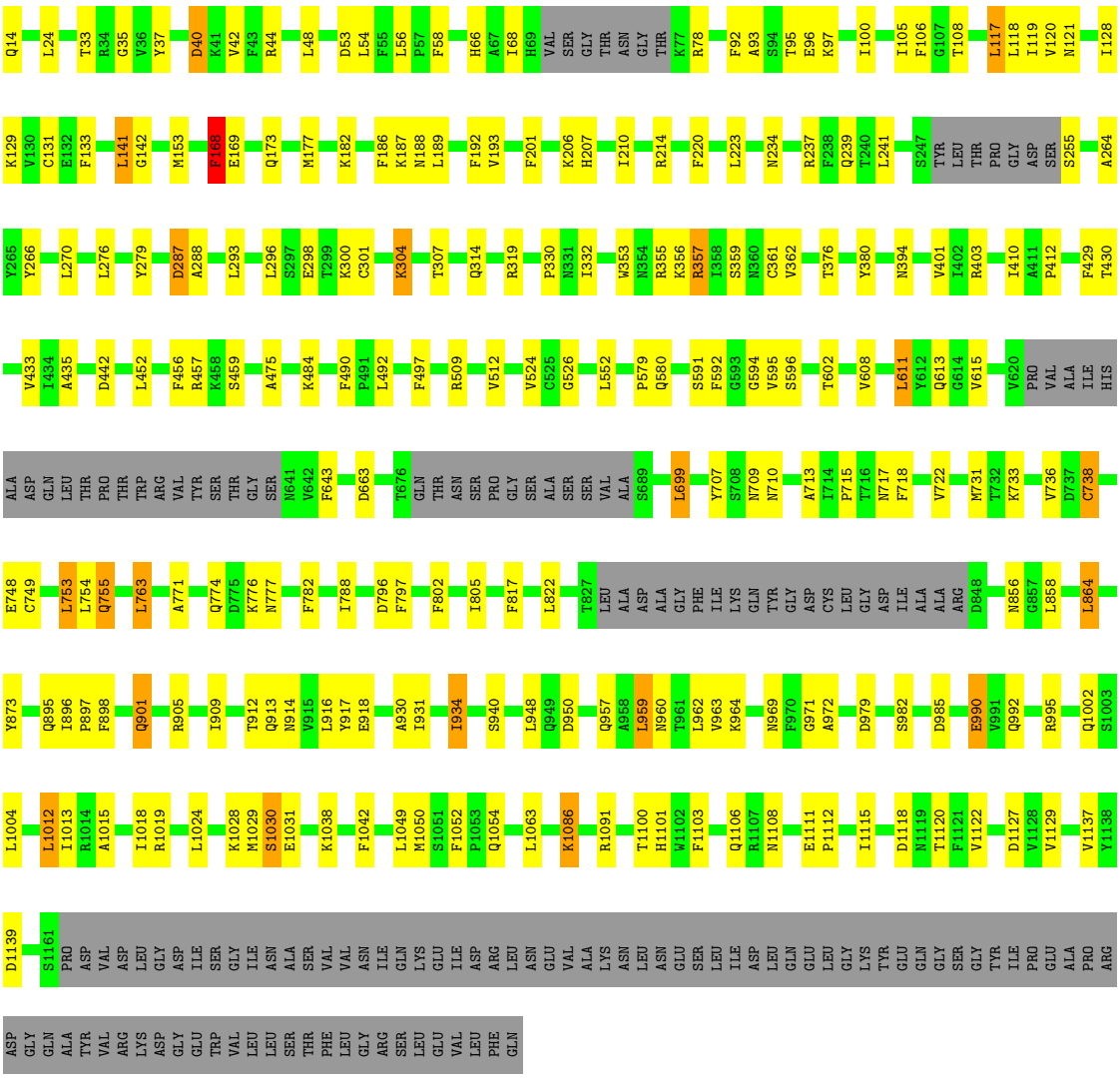
Chain 14-A:





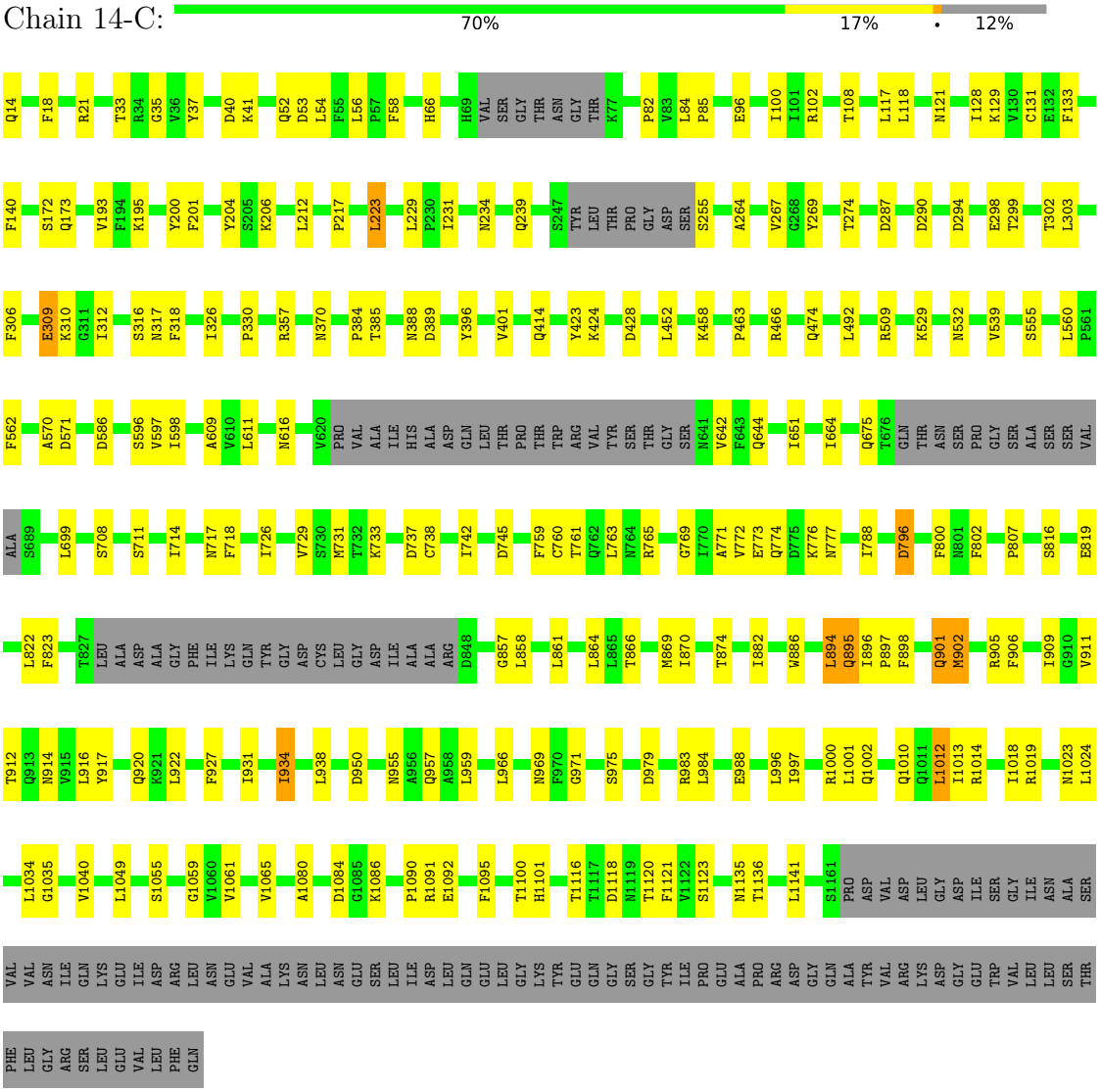
• Molecule 1: Spike glycoprotein,Fibritin

Chain 14-B:



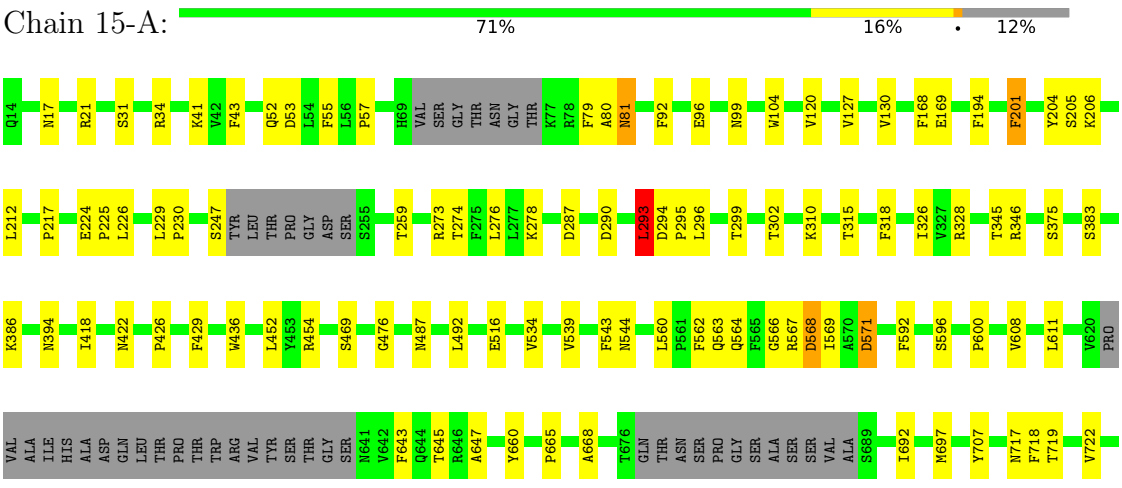
• Molecule 1: Spike glycoprotein,Fibritin

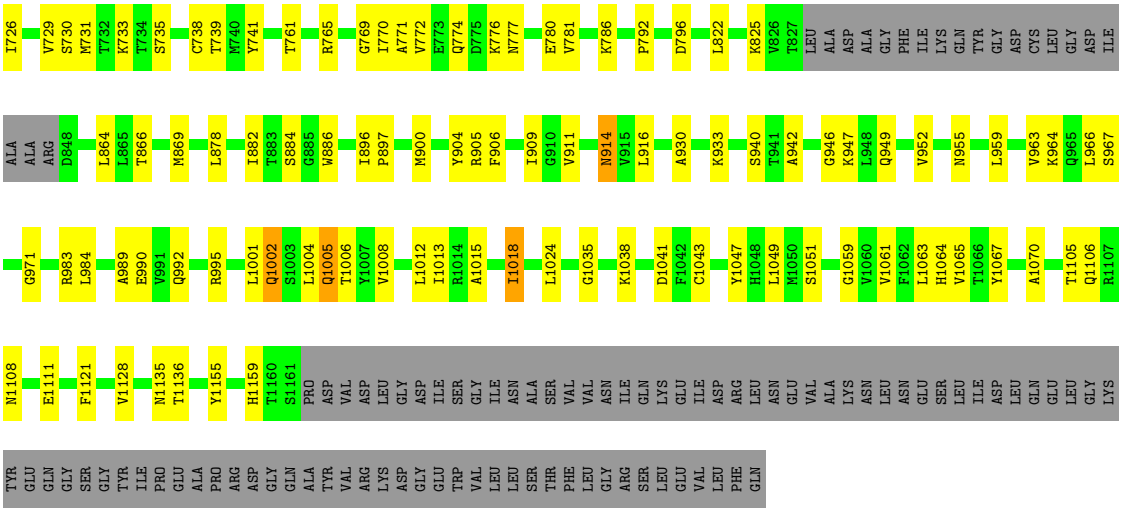
Chain 14-C:



• Molecule 1: Spike glycoprotein,Fibritin

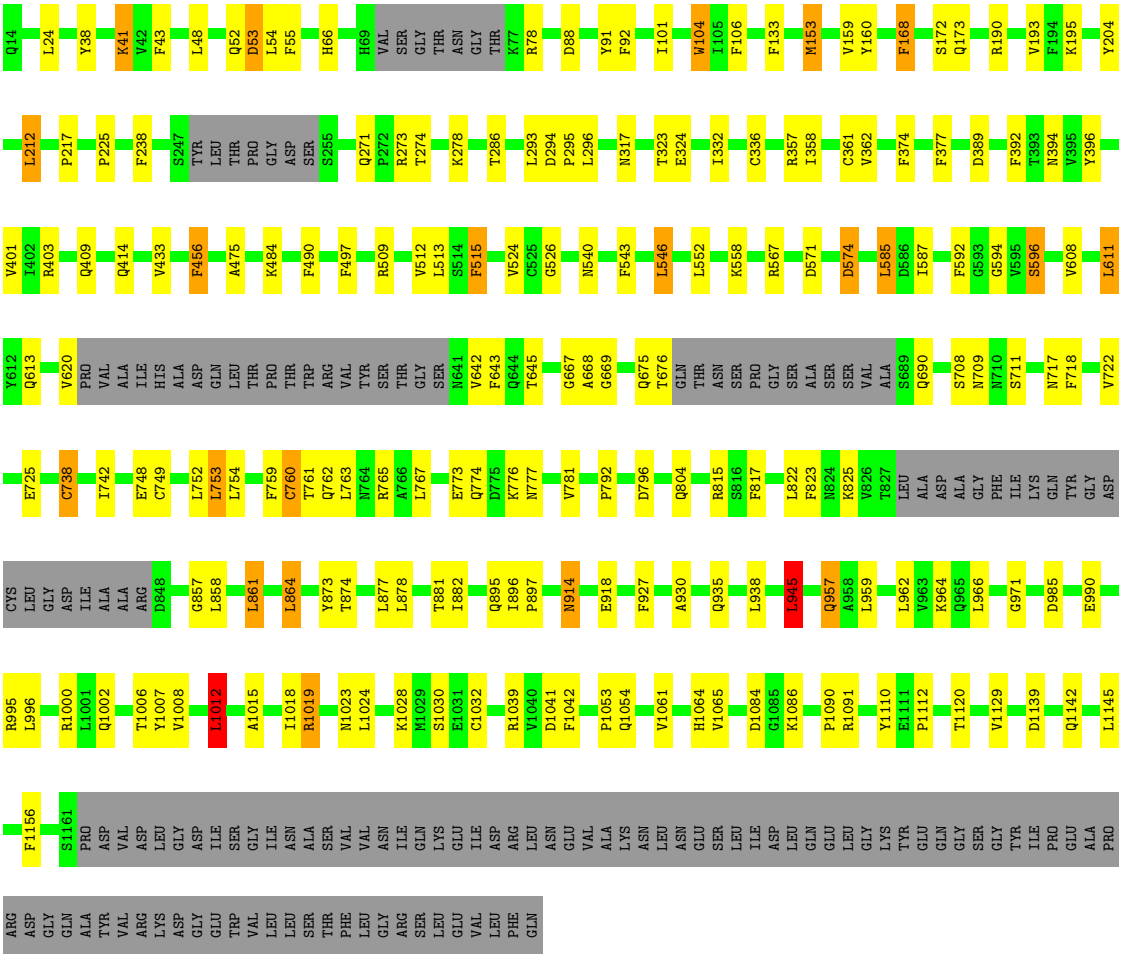
Chain 15-A:





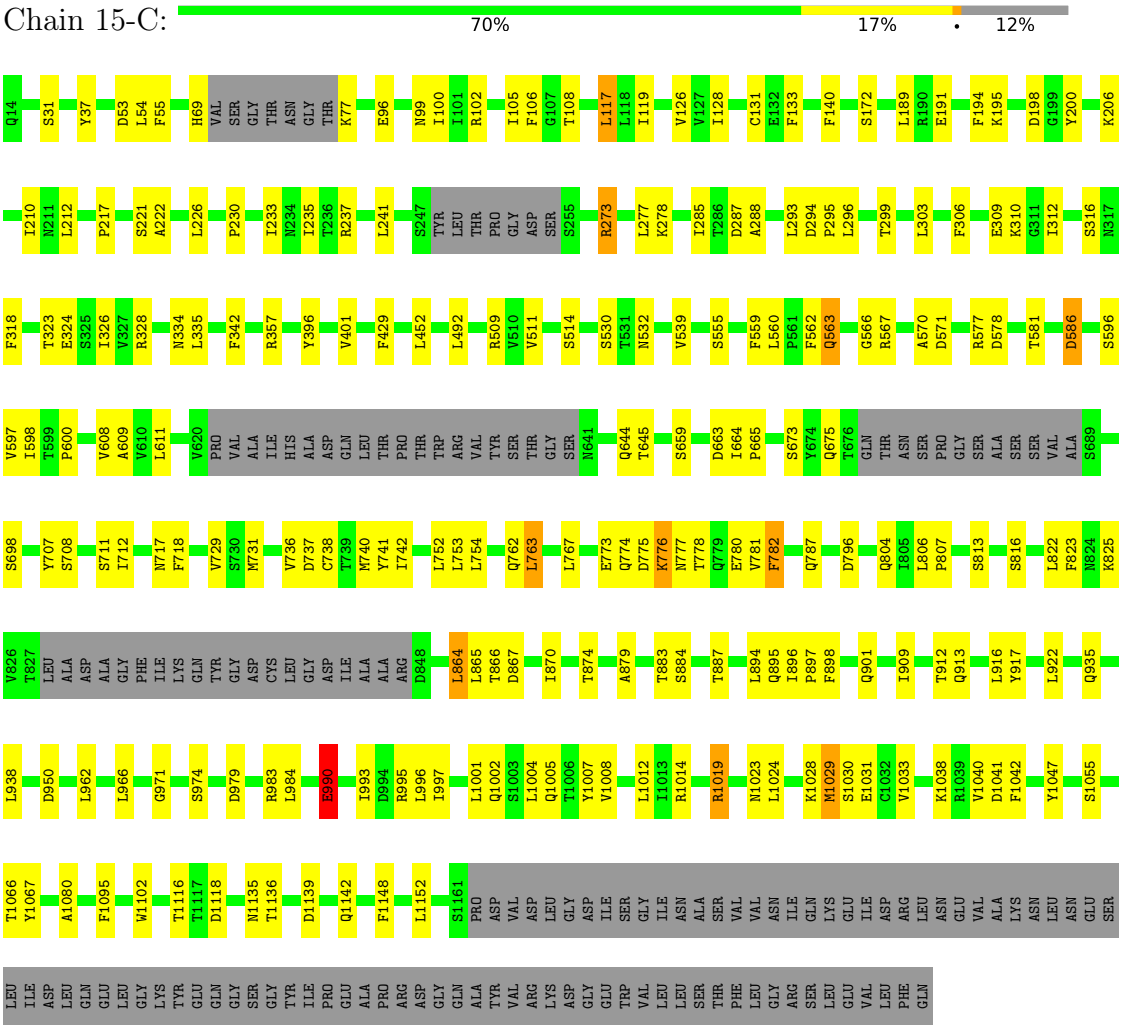
• Molecule 1: Spike glycoprotein,Fibritin

Chain 15-B:



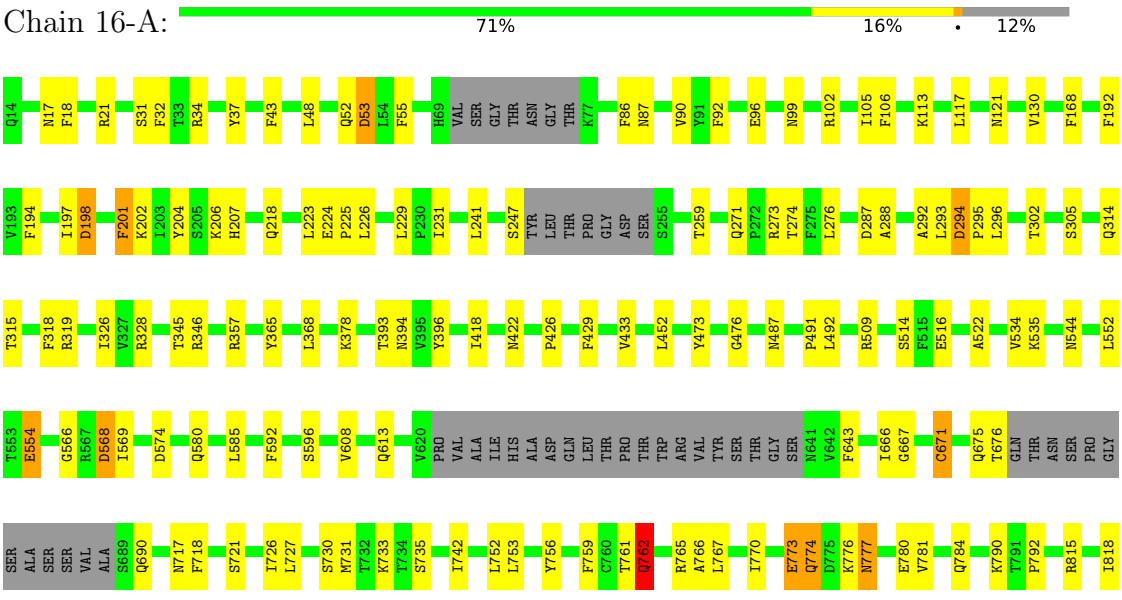
• Molecule 1: Spike glycoprotein,Fibritin

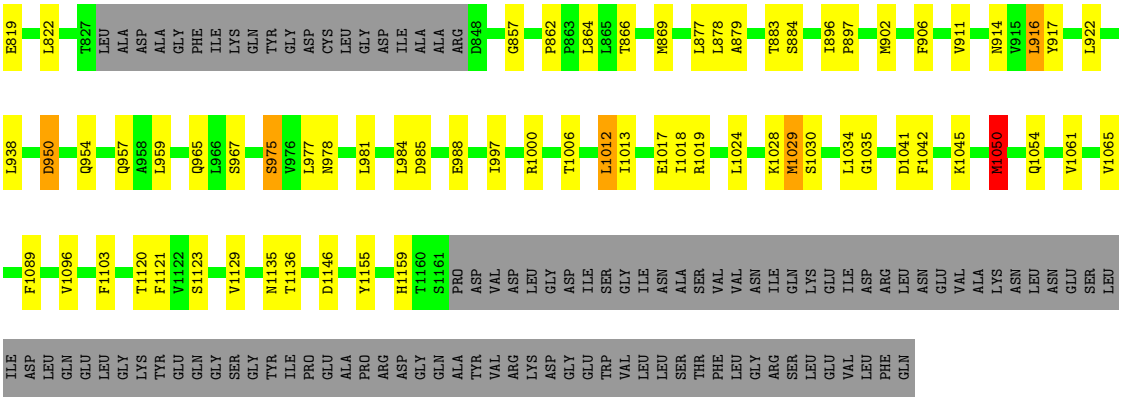
Chain 15-C:



• Molecule 1: Spike glycoprotein,Fibritin

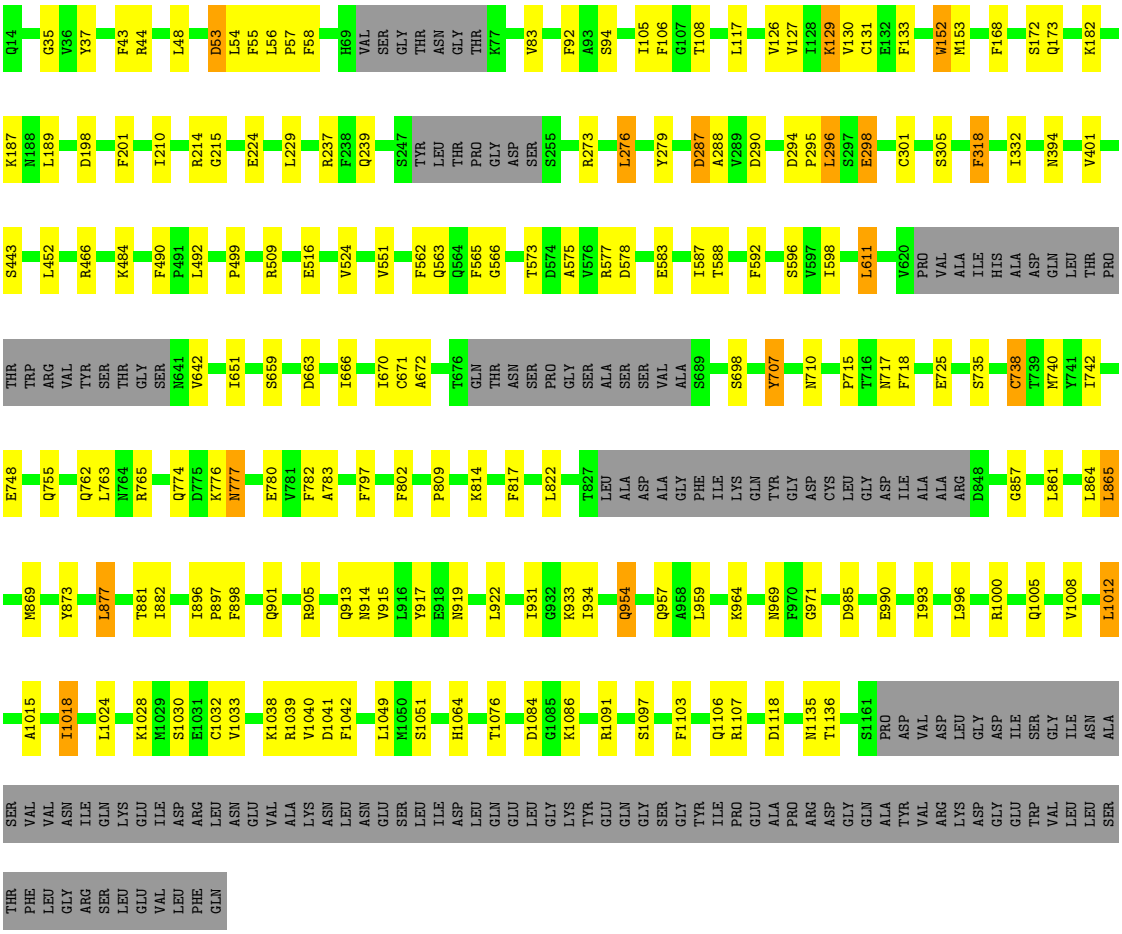
Chain 16-A:





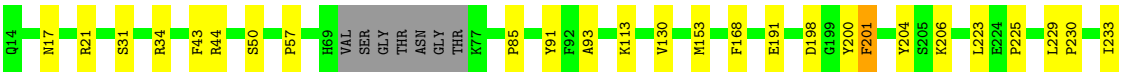
• Molecule 1: Spike glycoprotein,Fibritin

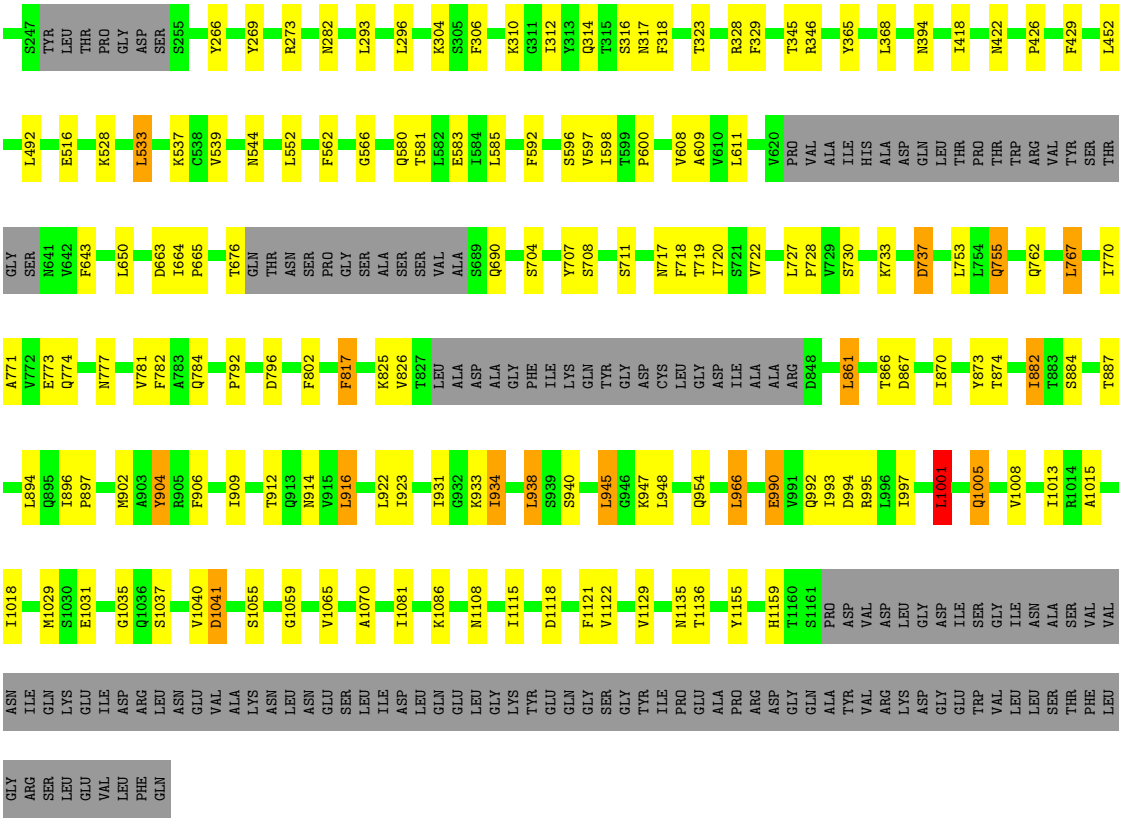
Chain 16-B:



• Molecule 1: Spike glycoprotein,Fibritin

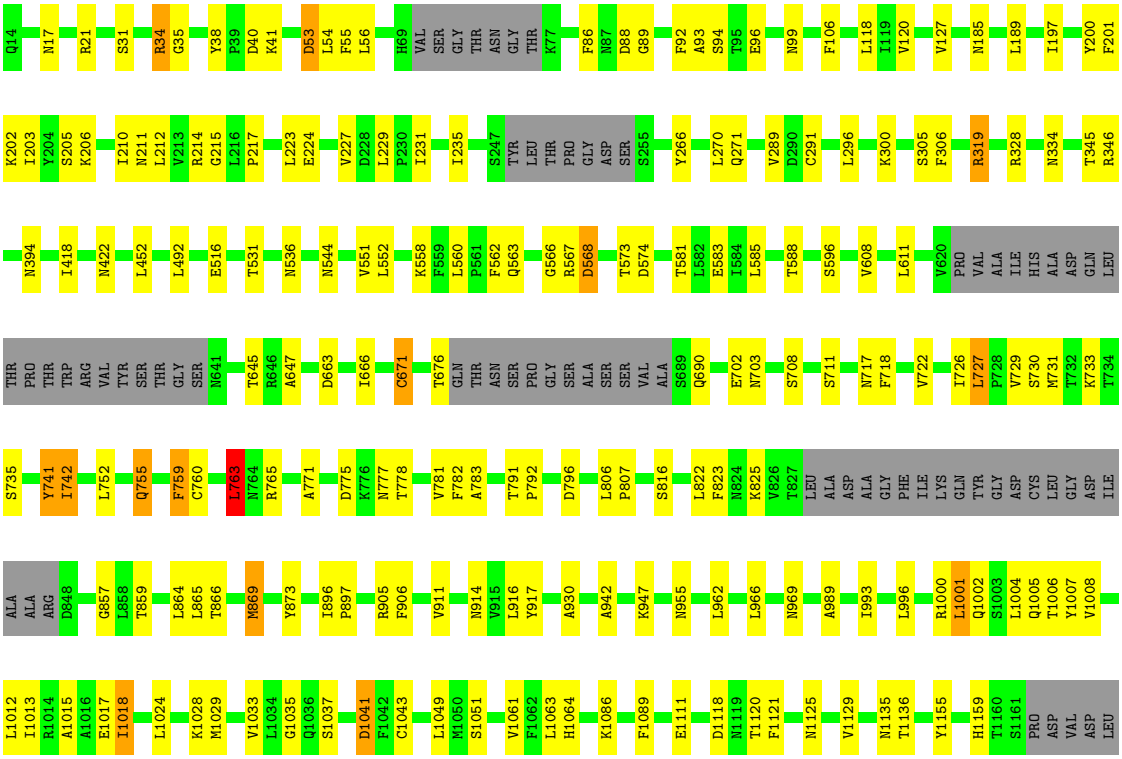
Chain 16-C:

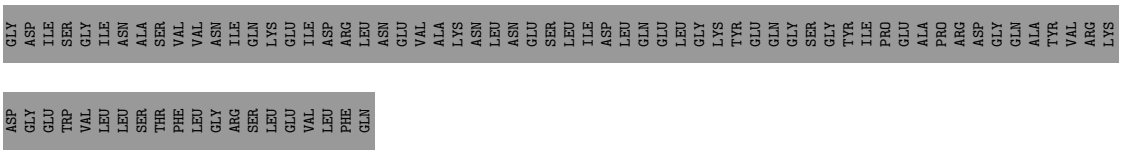




• Molecule 1: Spike glycoprotein,Fibritin

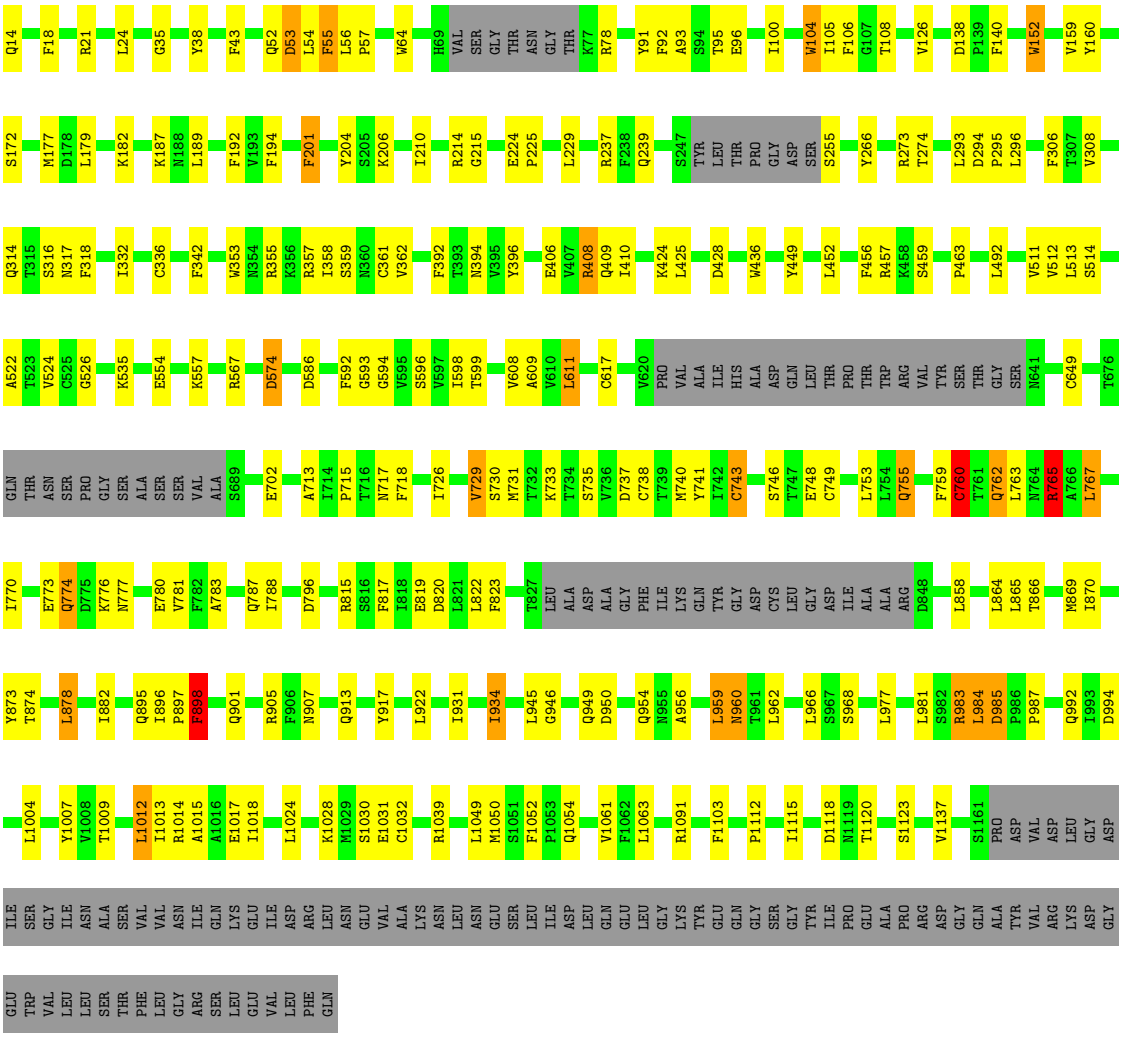
Chain 17-A:





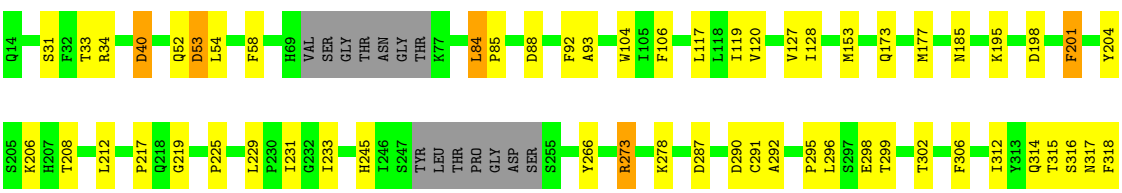
• Molecule 1: Spike glycoprotein,Fibritin

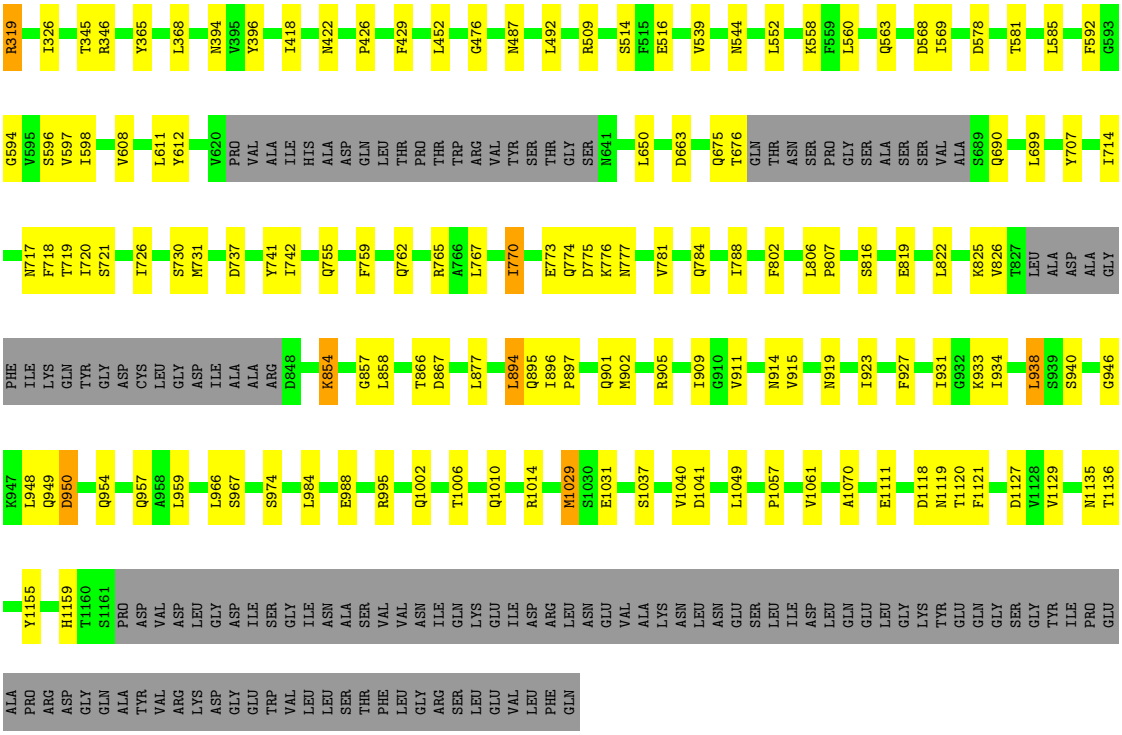
Chain 17-B:



• Molecule 1: Spike glycoprotein,Fibritin

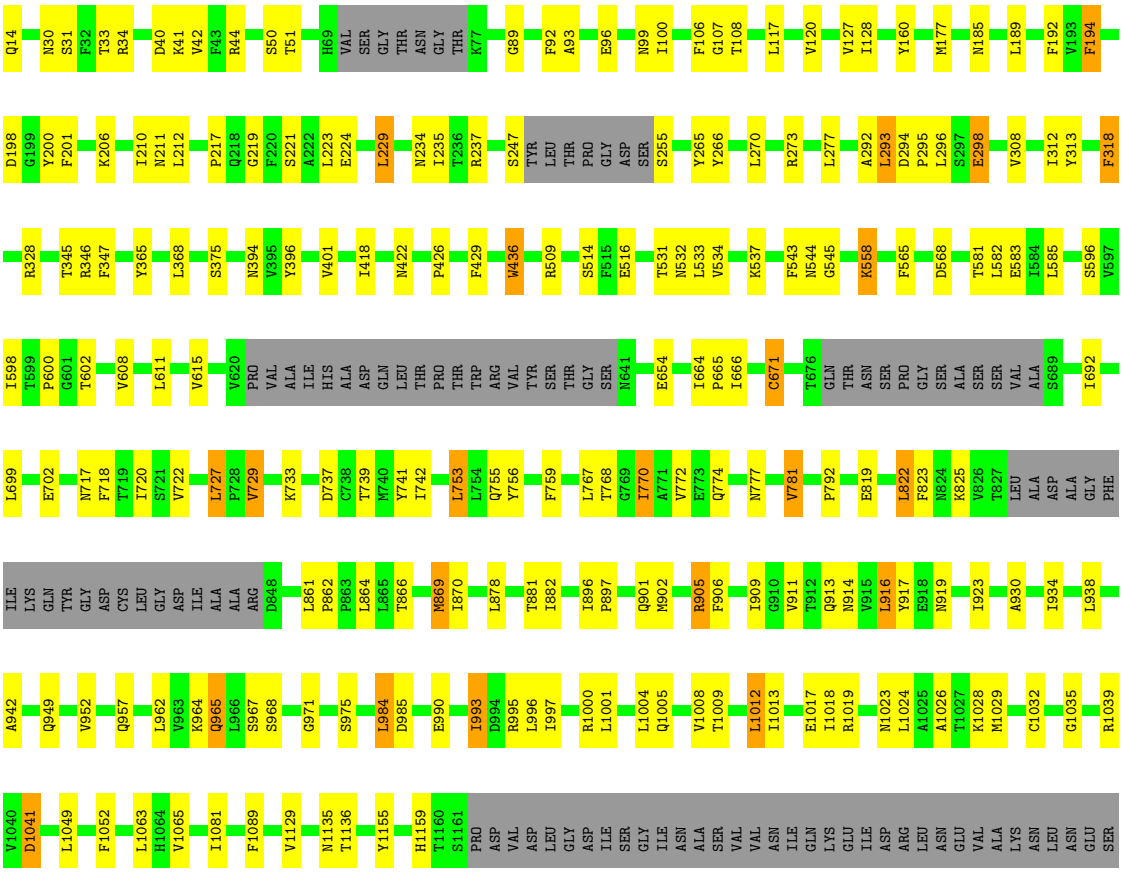
Chain 17-C:

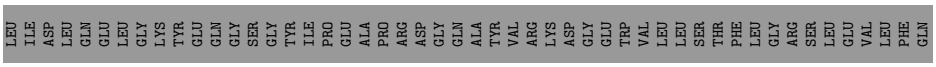




• Molecule 1: Spike glycoprotein,Fibritin

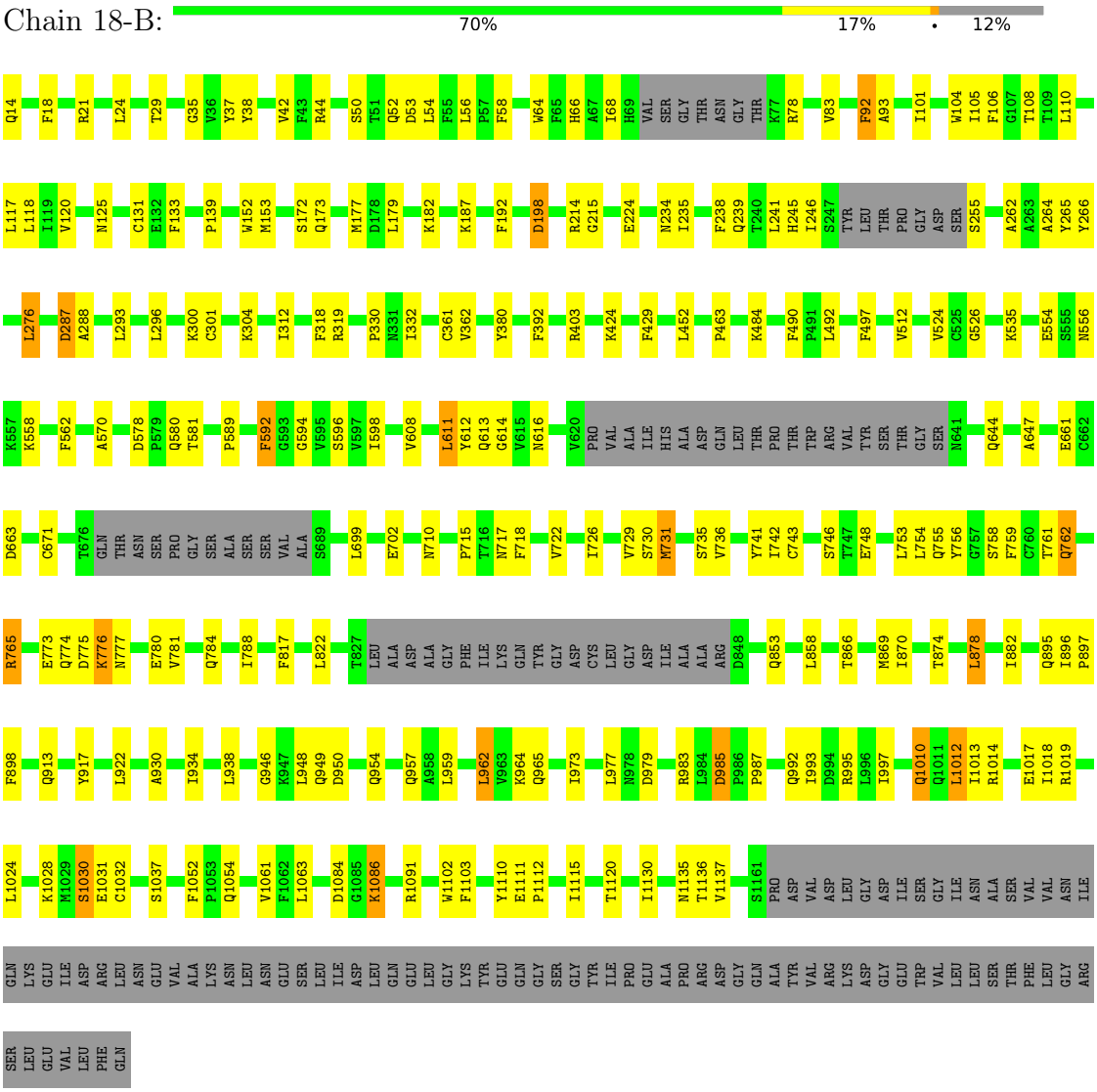
Chain 18-A:





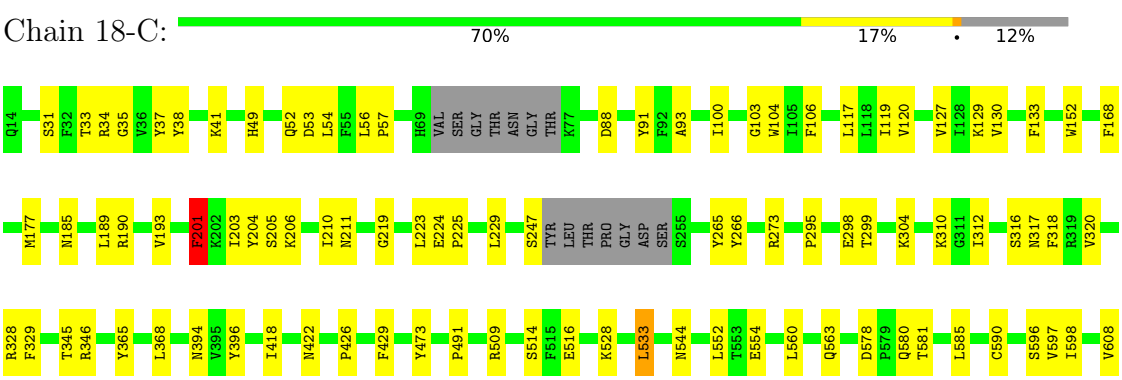
• Molecule 1: Spike glycoprotein,Fibritin

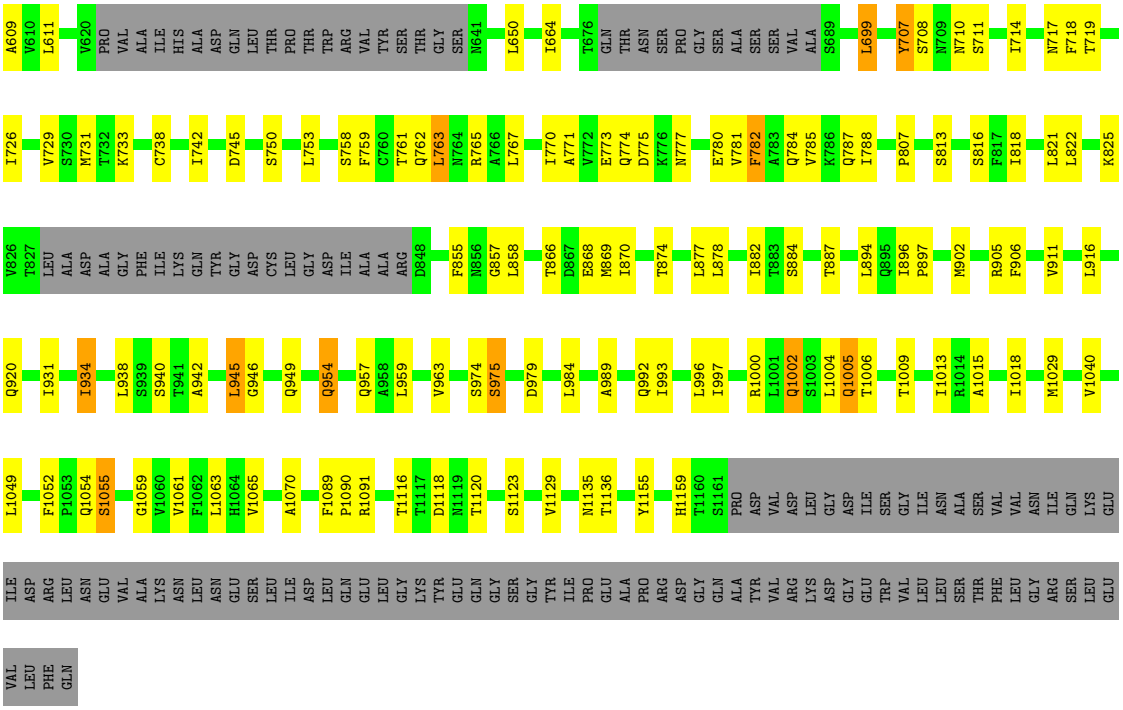
Chain 18-B:



• Molecule 1: Spike glycoprotein,Fibritin

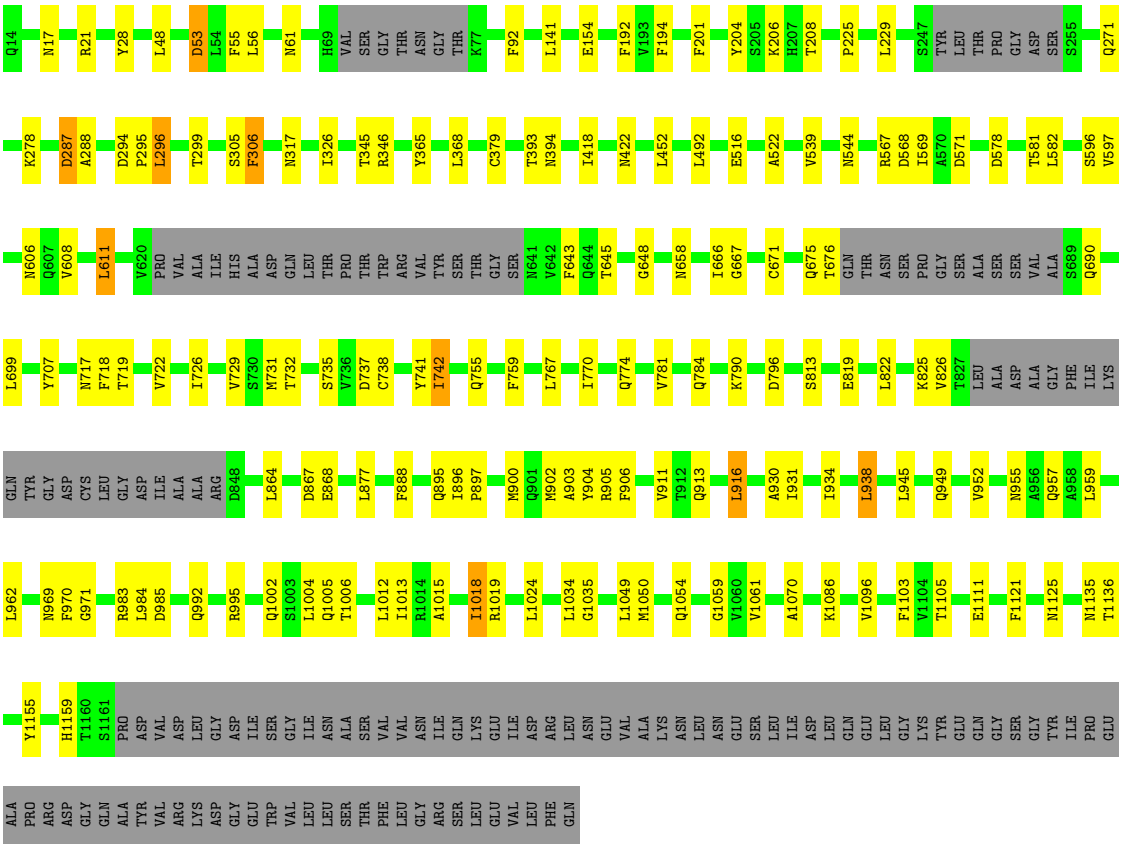
Chain 18-C:





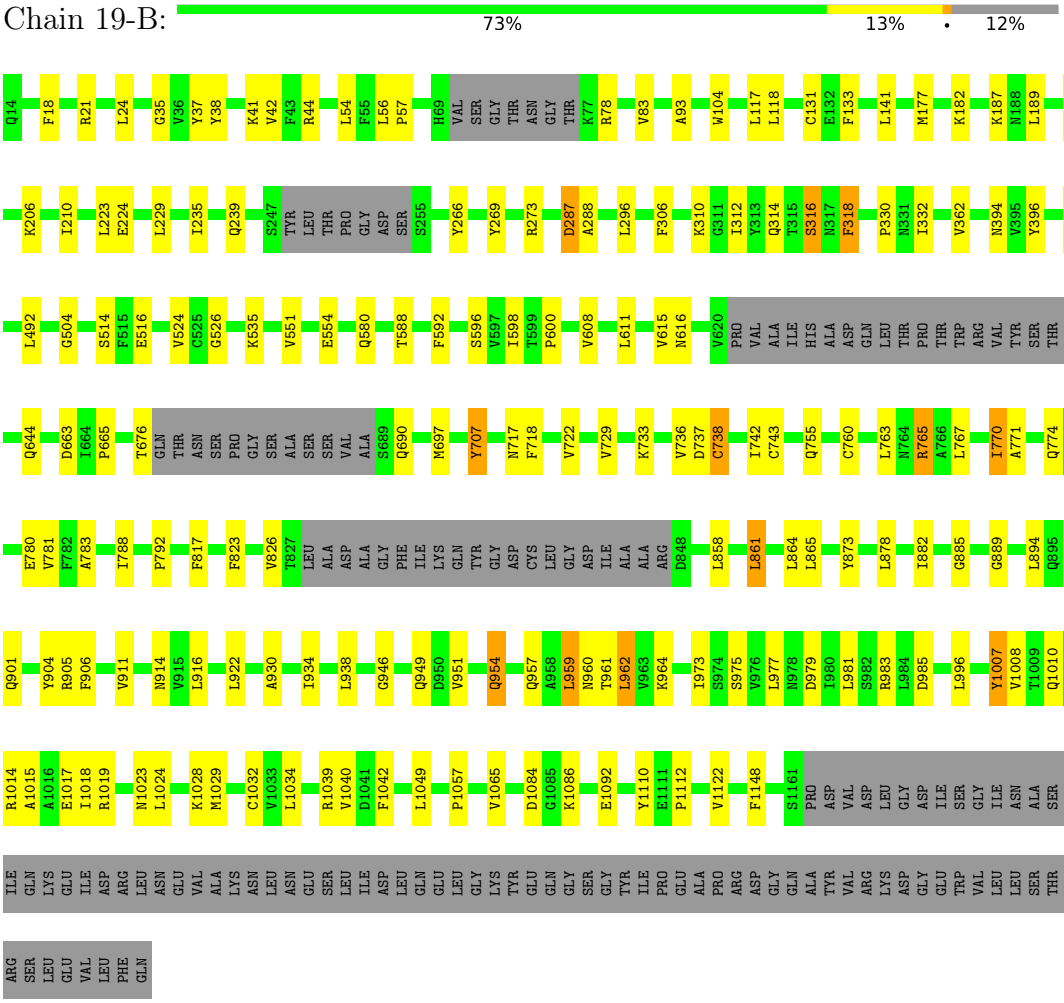
• Molecule 1: Spike glycoprotein,Fibritin

Chain 19-A:



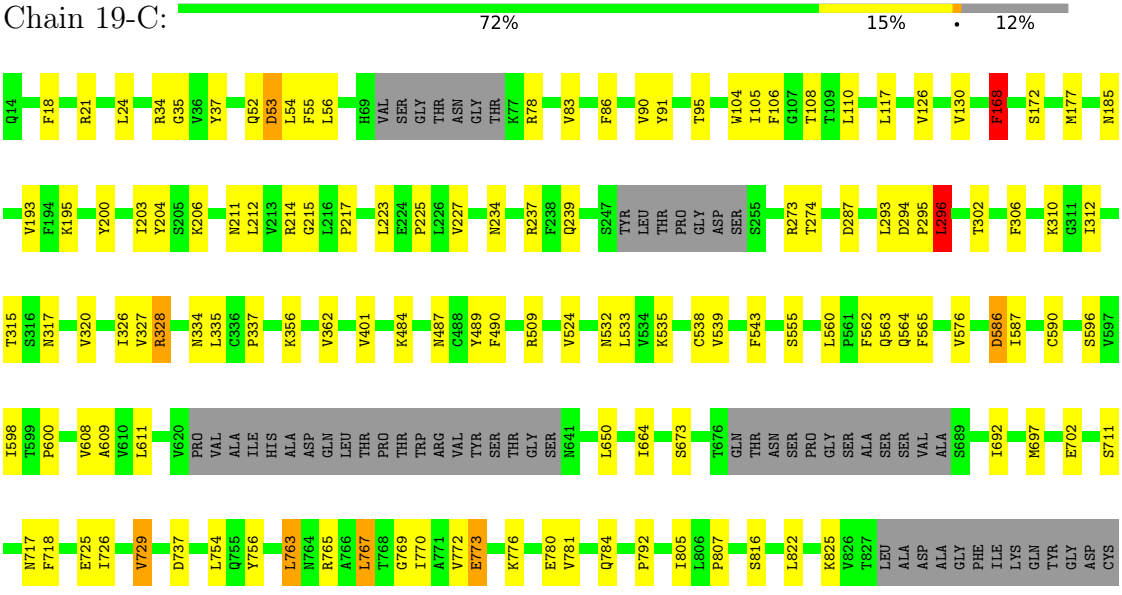
• Molecule 1: Spike glycoprotein,Fibritin

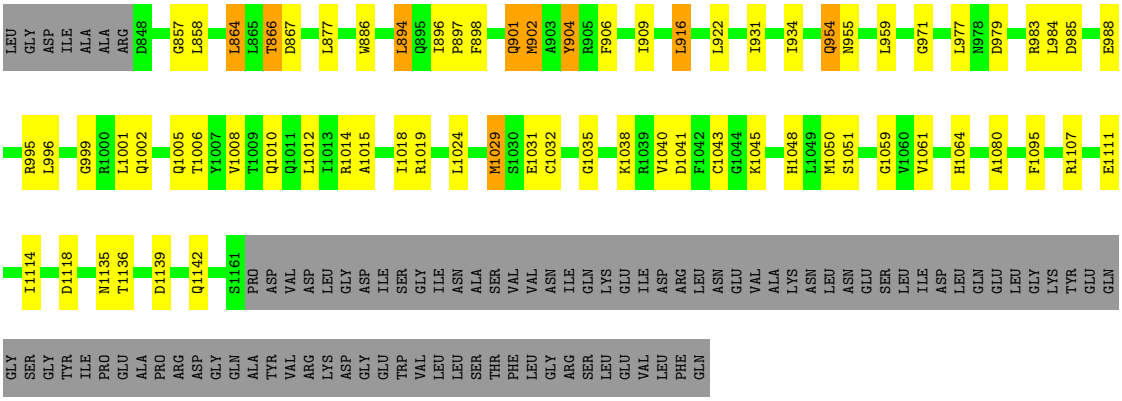
Chain 19-B:



• Molecule 1: Spike glycoprotein,Fibritin

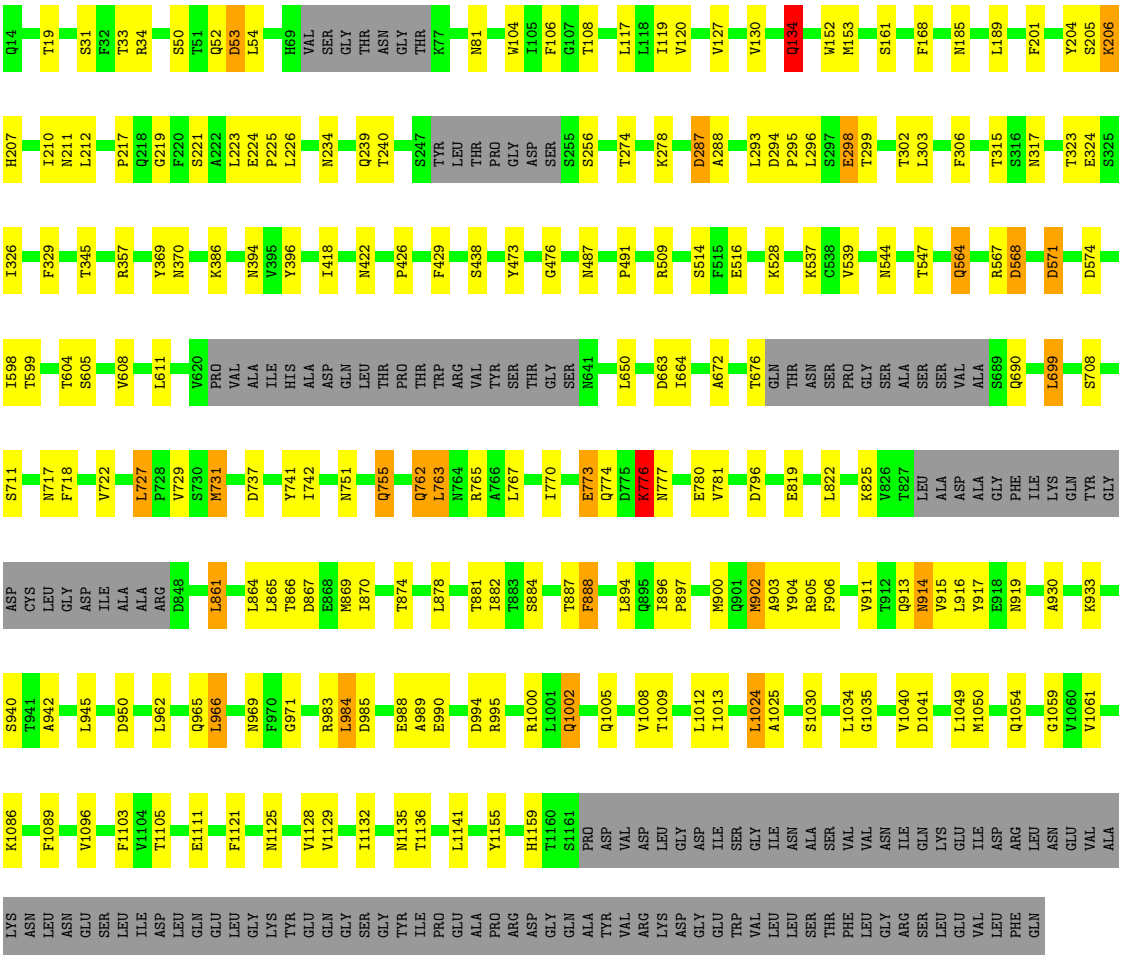
Chain 19-C:





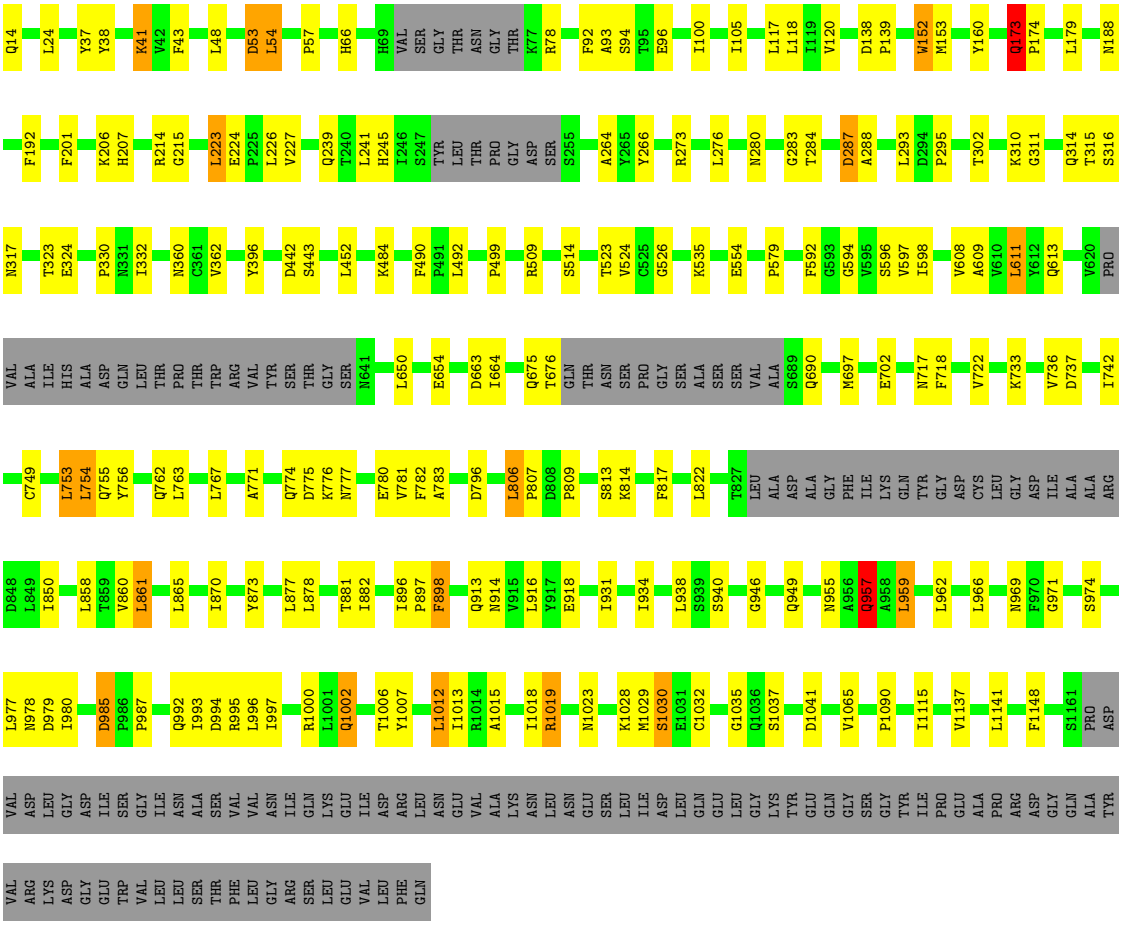
• Molecule 1: Spike glycoprotein,Fibritin

Chain 20-A:



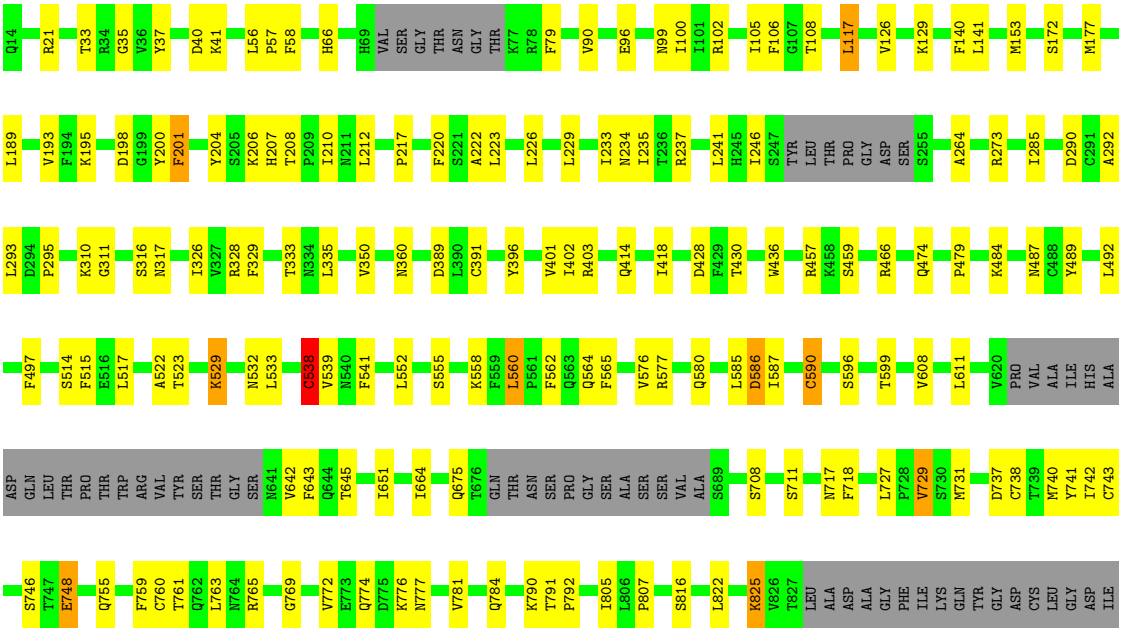
• Molecule 1: Spike glycoprotein,Fibritin

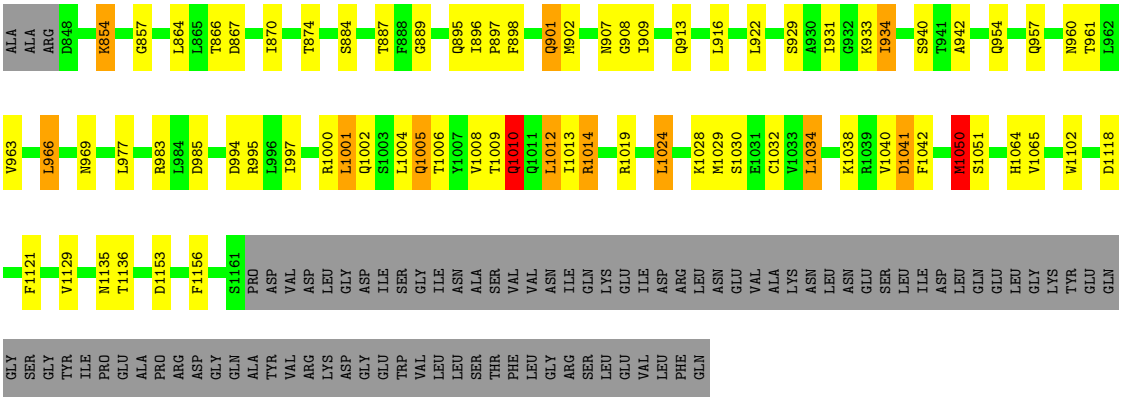
Chain 20-B:



• Molecule 1: Spike glycoprotein,Fibritin

Chain 20-C:




ALA ALA ARG D848 K854 G857 L864 L865 T866 D867 I870 T874 S884 T887 F888 G889 Q895 I896 P897 F898 Q901 M902 N907 G908 I909 Q913 L916 L922 S929 A930 I931 G932 K933 I934 S940 T941 A942 Q954 Q957 N960 T961 L962
V963 L966 N969 L977 R983 L984 D985 D994 R995 L996 I997 R1000 L1001 Q1002 S1003 L1004 Q1005 T1006 Y1007 V1008 T1009 Q1010 Q1011 L1012 I1013 R1014 R1019 L1024 K1028 M1029 S1030 E1031 C1032 V1033 L1034 K1038 R1039 V1040 D1041 F1042 M1050 S1051 H1064 V1065 W1102 D1118
F1121 V1129 N1135 T1136 D1153 F1156 S1161 PRO ASP VAL ASP LEU GLY ASP ILE SER GLY ILE ASN ALA SER VAL VAL ASN ILE GLN LYS GLU ILE ASP ARG LEU ASN GLU VAL ALA LYS ASN LEU ASN GLU SER LEU ILE ASP LEU GLN GLU LEU GLY LYS TYR GLU GLN
GLY SER GLY TYR ILE PRO GLU ALA PRO ARG ASP GLY GLN ALA TYR VAL ARG LYS ASP GLY GLU TRP VAL LEU LEU SER THR PHE LEU GLY ARG SER LEU GLU VAL LEU PHE GLN

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	479908	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	1.793	Depositor
Minimum map value	-0.556	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.060	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

5.1 Standard geometry

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	0.38	0/8652	0.84	33/11768 (0.3%)
1	1-B	0.38	0/8652	0.85	30/11768 (0.3%)
1	1-C	0.36	0/8652	0.80	28/11768 (0.2%)
1	2-A	0.39	2/8652 (0.0%)	0.87	33/11768 (0.3%)
1	2-B	0.37	0/8652	0.85	27/11768 (0.2%)
1	2-C	0.38	0/8652	0.85	33/11768 (0.3%)
1	3-A	0.38	1/8652 (0.0%)	0.82	32/11768 (0.3%)
1	3-B	0.39	1/8652 (0.0%)	0.86	31/11768 (0.3%)
1	3-C	0.38	2/8652 (0.0%)	0.83	35/11768 (0.3%)
1	4-A	0.38	0/8652	0.86	24/11768 (0.2%)
1	4-B	0.39	0/8652	0.85	35/11768 (0.3%)
1	4-C	0.39	0/8652	0.88	43/11768 (0.4%)
1	5-A	0.38	1/8652 (0.0%)	0.80	24/11768 (0.2%)
1	5-B	0.39	1/8652 (0.0%)	0.84	28/11768 (0.2%)
1	5-C	0.36	0/8652	0.77	22/11768 (0.2%)
1	6-A	0.35	0/8652	0.77	21/11768 (0.2%)
1	6-B	0.37	0/8652	0.86	33/11768 (0.3%)
1	6-C	0.37	0/8652	0.83	33/11768 (0.3%)
1	7-A	0.37	0/8652	0.81	23/11768 (0.2%)
1	7-B	0.38	1/8652 (0.0%)	0.84	36/11768 (0.3%)
1	7-C	0.38	1/8652 (0.0%)	0.87	37/11768 (0.3%)
1	8-A	0.38	4/8652 (0.0%)	0.84	33/11768 (0.3%)
1	8-B	0.38	0/8652	0.86	34/11768 (0.3%)
1	8-C	0.40	1/8652 (0.0%)	0.84	28/11768 (0.2%)
1	9-A	0.44	2/8652 (0.0%)	0.91	41/11768 (0.3%)
1	9-B	0.44	1/8652 (0.0%)	0.92	40/11768 (0.3%)
1	9-C	0.46	4/8652 (0.0%)	0.90	35/11768 (0.3%)
1	10-A	0.40	2/8652 (0.0%)	0.82	28/11768 (0.2%)
1	10-B	0.41	0/8652	0.86	35/11768 (0.3%)
1	10-C	0.41	2/8652 (0.0%)	0.84	27/11768 (0.2%)
1	11-A	0.39	0/8652	0.83	28/11768 (0.2%)
1	11-B	0.41	2/8652 (0.0%)	0.87	30/11768 (0.3%)
1	11-C	0.40	0/8652	0.86	27/11768 (0.2%)
1	12-A	0.38	1/8652 (0.0%)	0.84	33/11768 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	12-B	0.36	0/8652	0.82	30/11768 (0.3%)
1	12-C	0.39	1/8652 (0.0%)	0.82	34/11768 (0.3%)
1	13-A	0.41	1/8652 (0.0%)	0.84	31/11768 (0.3%)
1	13-B	0.43	1/8652 (0.0%)	0.87	37/11768 (0.3%)
1	13-C	0.43	3/8652 (0.0%)	0.87	42/11768 (0.4%)
1	14-A	0.39	2/8652 (0.0%)	0.84	22/11768 (0.2%)
1	14-B	0.40	0/8652	0.89	37/11768 (0.3%)
1	14-C	0.39	1/8652 (0.0%)	0.90	38/11768 (0.3%)
1	15-A	0.38	0/8652	0.81	23/11768 (0.2%)
1	15-B	0.39	1/8652 (0.0%)	0.87	33/11768 (0.3%)
1	15-C	0.40	1/8652 (0.0%)	0.86	37/11768 (0.3%)
1	16-A	0.37	1/8652 (0.0%)	0.85	33/11768 (0.3%)
1	16-B	0.38	0/8652	0.83	24/11768 (0.2%)
1	16-C	0.36	0/8652	0.78	22/11768 (0.2%)
1	17-A	0.37	1/8652 (0.0%)	0.82	29/11768 (0.2%)
1	17-B	0.39	1/8652 (0.0%)	0.88	41/11768 (0.3%)
1	17-C	0.37	0/8652	0.85	28/11768 (0.2%)
1	18-A	0.38	0/8652	0.84	31/11768 (0.3%)
1	18-B	0.39	0/8652	0.83	33/11768 (0.3%)
1	18-C	0.38	0/8652	0.82	23/11768 (0.2%)
1	19-A	0.37	1/8652 (0.0%)	0.83	29/11768 (0.2%)
1	19-B	0.38	2/8652 (0.0%)	0.80	32/11768 (0.3%)
1	19-C	0.40	1/8652 (0.0%)	0.86	45/11768 (0.4%)
1	20-A	0.39	0/8652	0.86	36/11768 (0.3%)
1	20-B	0.37	0/8652	0.85	34/11768 (0.3%)
1	20-C	0.40	2/8652 (0.0%)	0.89	45/11768 (0.4%)
All	All	0.39	49/519120 (0.0%)	0.85	1909/706080 (0.3%)

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	9-B	0	1
1	13-B	0	3
1	16-B	0	1
1	17-C	0	1
1	18-A	0	1
All	All	0	7

All (49) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8-C	662	CYS	CB-SG	-9.84	1.65	1.82
1	12-C	662	CYS	CB-SG	-9.02	1.67	1.82
1	19-C	320	VAL	C-N	8.68	1.54	1.34
1	7-C	662	CYS	CB-SG	-8.55	1.67	1.82
1	9-C	904	TYR	CD1-CE1	-8.26	1.26	1.39
1	20-C	738	CYS	CB-SG	-8.05	1.68	1.82
1	10-A	738	CYS	CB-SG	-8.04	1.68	1.82
1	13-C	738	CYS	CB-SG	-8.01	1.68	1.82
1	10-A	760	CYS	CB-SG	-7.88	1.68	1.82
1	9-A	760	CYS	CB-SG	-7.79	1.69	1.82
1	11-B	291	CYS	CB-SG	-7.50	1.69	1.82
1	7-B	291	CYS	CB-SG	-7.07	1.70	1.82
1	9-C	738	CYS	CB-SG	-7.02	1.70	1.82
1	13-B	760	CYS	CB-SG	-6.90	1.70	1.82
1	20-C	760	CYS	CB-SG	-6.66	1.71	1.82
1	17-A	760	CYS	CB-SG	-6.63	1.71	1.82
1	2-A	760	CYS	CB-SG	-6.62	1.71	1.82
1	14-C	760	CYS	CB-SG	-6.58	1.71	1.82
1	17-B	760	CYS	CB-SG	-6.58	1.71	1.82
1	19-B	738	CYS	CB-SG	-6.48	1.71	1.82
1	13-C	760	CYS	CB-SG	-6.45	1.71	1.82
1	9-C	760	CYS	CB-SG	-6.25	1.71	1.82
1	19-B	760	CYS	CB-SG	-6.17	1.71	1.82
1	19-A	738	CYS	CB-SG	-6.07	1.72	1.82
1	14-A	223	LEU	C-N	5.97	1.47	1.34
1	15-B	760	CYS	CB-SG	-5.94	1.72	1.81
1	3-B	760	CYS	CB-SG	-5.88	1.72	1.81
1	3-C	760	CYS	CB-SG	-5.85	1.72	1.81
1	5-B	291	CYS	CB-SG	-5.69	1.72	1.81
1	14-A	738	CYS	CB-SG	-5.64	1.72	1.81
1	16-A	223	LEU	C-N	5.64	1.47	1.34
1	15-C	563	GLN	CB-CG	-5.59	1.37	1.52
1	13-C	790	LYS	C-N	-5.56	1.21	1.34
1	12-A	223	LEU	C-N	5.49	1.46	1.34
1	3-C	223	LEU	C-N	5.43	1.46	1.34
1	5-A	738	CYS	CB-SG	-5.39	1.73	1.81
1	11-B	805	ILE	C-N	5.35	1.46	1.34
1	10-C	1067	TYR	CD1-CE1	-5.33	1.31	1.39
1	9-C	223	LEU	C-N	5.30	1.46	1.34
1	9-A	662	CYS	CB-SG	-5.26	1.73	1.81
1	3-A	760	CYS	CB-SG	-5.25	1.73	1.81
1	8-A	738	CYS	CB-SG	-5.24	1.73	1.81
1	8-A	671	CYS	CB-SG	-5.23	1.73	1.81

Continued on next page...

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	13-A	223	LEU	C-N	5.22	1.46	1.34
1	9-B	538	CYS	CB-SG	-5.21	1.73	1.81
1	8-A	662	CYS	CB-SG	-5.09	1.73	1.81
1	10-C	790	LYS	C-N	-5.07	1.22	1.34
1	8-A	760	CYS	CB-SG	-5.05	1.73	1.81
1	2-A	738	CYS	CB-SG	-5.04	1.73	1.81

All (1909) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-C	916	LEU	CB-CG-CD2	-16.15	83.54	111.00
1	9-C	966	LEU	CA-CB-CG	14.13	147.79	115.30
1	17-C	88	ASP	CB-CG-OD2	13.64	130.58	118.30
1	7-A	1041	ASP	CB-CG-OD1	13.54	130.48	118.30
1	2-A	763	LEU	CA-CB-CG	12.58	144.23	115.30
1	7-C	760	CYS	CA-CB-SG	12.40	136.33	114.00
1	10-B	428	ASP	CB-CG-OD1	12.23	129.31	118.30
1	7-C	662	CYS	CA-CB-SG	12.16	135.90	114.00
1	16-A	916	LEU	CB-CG-CD2	-12.07	90.49	111.00
1	15-B	962	LEU	CB-CG-CD2	-12.05	90.51	111.00
1	2-C	966	LEU	CA-CB-CG	11.87	142.60	115.30
1	12-A	916	LEU	CB-CG-CD2	-11.83	90.89	111.00
1	6-B	1004	LEU	CB-CG-CD2	-11.81	90.92	111.00
1	20-C	428	ASP	CB-CG-OD1	11.78	128.90	118.30
1	11-A	1012	LEU	CA-CB-CG	11.66	142.12	115.30
1	14-C	571	ASP	CB-CG-OD2	11.58	128.72	118.30
1	8-C	662	CYS	CA-CB-SG	11.55	134.78	114.00
1	12-A	1012	LEU	CA-CB-CG	11.52	141.78	115.30
1	3-C	1001	LEU	CA-CB-CG	11.49	141.72	115.30
1	6-A	745	ASP	CB-CG-OD1	11.38	128.54	118.30
1	6-B	994	ASP	CB-CG-OD1	11.37	128.54	118.30
1	3-C	916	LEU	CB-CG-CD2	-11.33	91.74	111.00
1	12-C	662	CYS	CA-CB-SG	11.32	134.38	114.00
1	14-B	959	LEU	CA-CB-CG	11.11	140.85	115.30
1	6-C	745	ASP	CB-CG-OD1	11.08	128.27	118.30
1	1-C	1001	LEU	CA-CB-CG	11.05	140.71	115.30
1	5-C	950	ASP	CB-CG-OD1	11.03	128.22	118.30
1	9-A	979	ASP	CB-CG-OD1	10.98	128.19	118.30
1	6-C	994	ASP	CB-CG-OD1	10.96	128.16	118.30
1	16-B	959	LEU	CA-CB-CG	10.93	140.44	115.30
1	16-C	1001	LEU	CA-CB-CG	10.89	140.34	115.30
1	17-A	1012	LEU	CA-CB-CG	10.86	140.28	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	19-A	916	LEU	CB-CG-CD2	-10.85	92.56	111.00
1	11-A	88	ASP	CB-CG-OD2	10.76	127.98	118.30
1	13-A	979	ASP	CB-CG-OD1	10.74	127.96	118.30
1	9-C	950	ASP	CB-CG-OD1	10.73	127.96	118.30
1	15-C	950	ASP	CB-CG-OD1	10.73	127.95	118.30
1	2-C	950	ASP	CB-CG-OD1	10.72	127.95	118.30
1	17-C	950	ASP	CB-CG-OD1	10.71	127.94	118.30
1	3-B	760	CYS	CA-CB-SG	10.70	133.26	114.00
1	5-A	763	LEU	CA-CB-CG	10.69	139.89	115.30
1	19-C	916	LEU	CB-CG-CD1	-10.64	92.91	111.00
1	5-B	291	CYS	CA-CB-SG	10.62	133.12	114.00
1	1-A	574	ASP	CB-CG-OD1	10.55	127.80	118.30
1	14-A	916	LEU	CB-CG-CD2	-10.55	93.06	111.00
1	16-A	294	ASP	CB-CG-OD1	10.50	127.75	118.30
1	4-A	994	ASP	CB-CG-OD1	10.47	127.72	118.30
1	4-C	864	LEU	CA-CB-CG	10.43	139.30	115.30
1	14-C	950	ASP	CB-CG-OD1	10.43	127.69	118.30
1	9-A	574	ASP	CB-CG-OD2	10.40	127.66	118.30
1	7-A	663	ASP	CB-CG-OD1	10.39	127.65	118.30
1	2-B	985	ASP	CB-CG-OD2	10.35	127.61	118.30
1	4-C	950	ASP	CB-CG-OD1	10.34	127.60	118.30
1	18-C	979	ASP	CB-CG-OD1	10.33	127.60	118.30
1	12-B	118	LEU	CA-CB-CG	10.30	138.99	115.30
1	14-B	985	ASP	CB-CG-OD1	10.16	127.44	118.30
1	20-C	966	LEU	CA-CB-CG	10.16	138.66	115.30
1	19-C	979	ASP	CB-CG-OD1	10.15	127.43	118.30
1	14-A	979	ASP	CB-CG-OD1	10.11	127.40	118.30
1	12-C	1001	LEU	CA-CB-CG	10.11	138.54	115.30
1	15-B	546	LEU	CA-CB-CG	10.07	138.47	115.30
1	16-A	198	ASP	CB-CG-OD2	10.05	127.35	118.30
1	13-A	950	ASP	CB-CG-OD1	10.04	127.34	118.30
1	17-B	878	LEU	CA-CB-CG	10.04	138.39	115.30
1	9-B	198	ASP	CB-CG-OD1	10.03	127.33	118.30
1	20-B	763	LEU	CA-CB-CG	10.01	138.33	115.30
1	11-C	950	ASP	CB-CG-OD1	9.99	127.29	118.30
1	14-C	294	ASP	CB-CG-OD2	9.98	127.28	118.30
1	2-C	948	LEU	CA-CB-CG	9.97	138.24	115.30
1	7-C	1001	LEU	CA-CB-CG	9.96	138.20	115.30
1	15-C	916	LEU	CB-CG-CD2	-9.93	94.12	111.00
1	16-B	294	ASP	CB-CG-OD1	9.93	127.23	118.30
1	14-B	753	LEU	CA-CB-CG	9.92	138.12	115.30
1	1-B	950	ASP	CB-CG-OD1	9.89	127.20	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2-C	996	LEU	CA-CB-CG	9.89	138.04	115.30
1	13-B	994	ASP	CB-CG-OD1	9.84	127.16	118.30
1	4-C	546	LEU	CA-CB-CG	9.77	137.78	115.30
1	9-B	118	LEU	CA-CB-CG	9.77	137.78	115.30
1	17-B	760	CYS	CA-CB-SG	9.72	131.49	114.00
1	4-C	878	LEU	CA-CB-CG	9.71	137.64	115.30
1	9-C	738	CYS	CA-CB-SG	9.71	131.47	114.00
1	7-B	428	ASP	CB-CG-OD1	9.68	127.01	118.30
1	11-C	294	ASP	CB-CG-OD1	9.68	127.01	118.30
1	13-C	950	ASP	CB-CG-OD1	9.64	126.98	118.30
1	12-C	938	LEU	CA-CB-CG	9.64	137.48	115.30
1	6-B	574	ASP	CB-CG-OD1	9.61	126.95	118.30
1	20-C	738	CYS	CA-CB-SG	9.59	131.27	114.00
1	9-A	916	LEU	CB-CG-CD1	-9.59	94.70	111.00
1	14-C	428	ASP	CB-CG-OD1	9.54	126.89	118.30
1	9-C	878	LEU	CA-CB-CG	9.53	137.21	115.30
1	20-B	754	LEU	CA-CB-CG	9.51	137.16	115.30
1	18-C	88	ASP	CB-CG-OD2	9.49	126.84	118.30
1	12-A	864	LEU	CA-CB-CG	9.48	137.11	115.30
1	15-A	916	LEU	CB-CG-CD1	-9.41	95.00	111.00
1	4-C	806	LEU	CA-CB-CG	9.40	136.93	115.30
1	3-A	916	LEU	CB-CG-CD2	-9.37	95.06	111.00
1	13-C	650	LEU	CA-CB-CG	9.37	136.85	115.30
1	19-A	1012	LEU	CA-CB-CG	9.36	136.82	115.30
1	11-A	916	LEU	CB-CG-CD2	-9.34	95.12	111.00
1	8-C	950	ASP	CB-CG-OD1	9.34	126.71	118.30
1	9-A	864	LEU	CA-CB-CG	9.32	136.75	115.30
1	18-C	916	LEU	CB-CG-CD1	-9.30	95.18	111.00
1	19-B	738	CYS	CA-CB-SG	9.30	130.74	114.00
1	9-A	950	ASP	CB-CG-OD1	9.29	126.66	118.30
1	15-C	966	LEU	CA-CB-CG	9.29	136.66	115.30
1	1-A	916	LEU	CB-CG-CD2	-9.27	95.24	111.00
1	2-C	560	LEU	CA-CB-CG	9.27	136.61	115.30
1	11-A	878	LEU	CA-CB-CG	9.26	136.60	115.30
1	20-B	796	ASP	CB-CG-OD1	9.24	126.61	118.30
1	10-C	950	ASP	CB-CG-OD1	9.23	126.60	118.30
1	5-C	763	LEU	CB-CG-CD2	9.21	126.65	111.00
1	11-A	223	LEU	CA-CB-CG	9.17	136.38	115.30
1	5-A	878	LEU	CA-CB-CG	9.16	136.36	115.30
1	1-B	428	ASP	CB-CG-OD1	9.15	126.53	118.30
1	9-B	916	LEU	CB-CG-CD1	-9.14	95.46	111.00
1	18-A	916	LEU	CB-CG-CD2	-9.14	95.46	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	20-C	916	LEU	CB-CG-CD2	-9.12	95.49	111.00
1	2-C	294	ASP	CB-CG-OD2	9.11	126.50	118.30
1	9-B	737	ASP	CB-CG-OD1	9.11	126.50	118.30
1	9-B	985	ASP	CB-CG-OD2	9.11	126.50	118.30
1	13-C	763	LEU	CA-CB-CG	9.08	136.19	115.30
1	13-A	916	LEU	CB-CG-CD2	-9.06	95.59	111.00
1	7-B	864	LEU	CA-CB-CG	9.06	136.14	115.30
1	7-C	916	LEU	CB-CG-CD2	-9.06	95.60	111.00
1	7-A	763	LEU	CA-CB-CG	9.06	136.13	115.30
1	3-C	780	GLU	CA-CB-CG	9.04	133.28	113.40
1	14-C	864	LEU	CA-CB-CG	9.03	136.06	115.30
1	17-A	574	ASP	CB-CG-OD1	9.03	126.42	118.30
1	4-C	979	ASP	CB-CG-OD2	9.02	126.42	118.30
1	20-C	517	LEU	CA-CB-CG	9.01	136.01	115.30
1	1-B	663	ASP	CB-CG-OD1	8.99	126.39	118.30
1	6-C	586	ASP	CB-CG-OD1	8.99	126.39	118.30
1	9-B	959	LEU	CA-CB-CG	8.99	135.97	115.30
1	10-A	293	LEU	CA-CB-CG	8.98	135.95	115.30
1	17-C	198	ASP	CB-CG-OD1	8.96	126.36	118.30
1	20-C	864	LEU	CA-CB-CG	8.93	135.84	115.30
1	11-C	763	LEU	CB-CG-CD1	-8.93	95.83	111.00
1	10-A	1012	LEU	CA-CB-CG	8.92	135.81	115.30
1	10-A	959	LEU	CA-CB-CG	8.92	135.81	115.30
1	1-B	878	LEU	CA-CB-CG	8.91	135.79	115.30
1	12-A	293	LEU	CA-CB-CG	8.87	135.69	115.30
1	15-C	586	ASP	CB-CG-OD1	8.87	126.28	118.30
1	2-C	546	LEU	CA-CB-CG	8.87	135.69	115.30
1	2-B	571	ASP	CB-CG-OD1	8.84	126.26	118.30
1	9-C	979	ASP	CB-CG-OD2	8.84	126.26	118.30
1	7-C	1012	LEU	CA-CB-CG	8.83	135.60	115.30
1	15-A	293	LEU	CA-CB-CG	8.80	135.55	115.30
1	19-C	177	MET	CA-CB-CG	8.79	128.24	113.30
1	10-C	1001	LEU	CA-CB-CG	8.78	135.50	115.30
1	8-A	979	ASP	CB-CG-OD2	8.78	126.20	118.30
1	18-A	753	LEU	CA-CB-CG	8.77	135.46	115.30
1	4-A	979	ASP	CB-CG-OD1	8.74	126.17	118.30
1	8-C	979	ASP	CB-CG-OD2	8.74	126.17	118.30
1	15-B	962	LEU	CA-CB-CG	8.72	135.36	115.30
1	20-C	1012	LEU	CA-CB-CG	8.72	135.36	115.30
1	8-A	916	LEU	CB-CG-CD2	-8.72	96.17	111.00
1	9-C	223	LEU	CA-CB-CG	8.71	135.34	115.30
1	14-C	979	ASP	CB-CG-OD1	8.71	126.14	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7-B	754	LEU	CA-CB-CG	8.70	135.30	115.30
1	16-C	916	LEU	CB-CG-CD1	-8.70	96.22	111.00
1	5-A	293	LEU	CA-CB-CG	8.69	135.29	115.30
1	10-B	737	ASP	CB-CG-OD1	8.67	126.10	118.30
1	7-C	950	ASP	CB-CG-OD1	8.67	126.10	118.30
1	20-B	1012	LEU	CB-CG-CD1	-8.66	96.28	111.00
1	11-C	763	LEU	CB-CG-CD2	8.65	125.70	111.00
1	18-A	198	ASP	CB-CG-OD1	8.64	126.08	118.30
1	1-C	763	LEU	CA-CB-CG	8.63	135.14	115.30
1	9-A	198	ASP	CB-CG-OD2	8.62	126.06	118.30
1	9-B	754	LEU	CA-CB-CG	8.62	135.13	115.30
1	14-B	916	LEU	CB-CG-CD2	8.62	125.65	111.00
1	2-A	290	ASP	CB-CG-OD1	8.60	126.04	118.30
1	10-C	763	LEU	CA-CB-CG	8.60	135.08	115.30
1	4-A	198	ASP	CB-CG-OD2	8.60	126.04	118.30
1	14-C	1012	LEU	CA-CB-CG	8.57	135.01	115.30
1	7-A	1012	LEU	CA-CB-CG	8.53	134.93	115.30
1	3-B	663	ASP	CB-CG-OD1	8.53	125.97	118.30
1	2-B	959	LEU	CA-CB-CG	8.51	134.86	115.30
1	4-B	754	LEU	CA-CB-CG	8.50	134.84	115.30
1	11-C	198	ASP	CB-CG-OD1	8.47	125.92	118.30
1	15-C	198	ASP	CB-CG-OD2	8.46	125.92	118.30
1	11-A	763	LEU	CA-CB-CG	8.45	134.74	115.30
1	1-B	290	ASP	CB-CG-OD2	8.45	125.90	118.30
1	4-C	1050	MET	CG-SD-CE	-8.44	86.69	100.20
1	9-B	1139	ASP	CB-CG-OD1	8.44	125.90	118.30
1	8-A	198	ASP	CB-CG-OD2	8.43	125.89	118.30
1	6-B	198	ASP	CB-CG-OD1	8.42	125.88	118.30
1	9-C	902	MET	CA-CB-CG	8.42	127.61	113.30
1	7-B	763	LEU	CA-CB-CG	8.41	134.63	115.30
1	20-A	796	ASP	CB-CG-OD2	8.35	125.82	118.30
1	9-C	796	ASP	CB-CG-OD1	8.34	125.80	118.30
1	13-A	1012	LEU	CA-CB-CG	8.34	134.47	115.30
1	15-B	574	ASP	CB-CG-OD1	8.33	125.80	118.30
1	4-C	796	ASP	CB-CG-OD1	8.32	125.79	118.30
1	12-B	754	LEU	CA-CB-CG	8.32	134.43	115.30
1	12-C	223	LEU	CA-CB-CG	8.32	134.43	115.30
1	8-A	56	LEU	CA-CB-CG	8.31	134.41	115.30
1	7-B	1024	LEU	CA-CB-CG	8.29	134.37	115.30
1	9-C	864	LEU	CA-CB-CG	8.29	134.36	115.30
1	11-B	1127	ASP	CB-CG-OD2	8.28	125.75	118.30
1	2-C	938	LEU	CA-CB-CG	8.28	134.34	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	18-C	753	LEU	CA-CB-CG	8.27	134.33	115.30
1	7-C	981	LEU	CA-CB-CG	8.27	134.32	115.30
1	18-B	198	ASP	CB-CG-OD1	8.26	125.74	118.30
1	6-B	1139	ASP	CB-CG-OD1	8.24	125.72	118.30
1	13-C	754	LEU	CA-CB-CG	8.23	134.24	115.30
1	5-B	198	ASP	CB-CG-OD1	8.23	125.70	118.30
1	12-B	1024	LEU	CA-CB-CG	8.22	134.21	115.30
1	10-C	117	LEU	CA-CB-CG	8.21	134.18	115.30
1	18-A	229	LEU	CA-CB-CG	8.21	134.17	115.30
1	7-A	878	LEU	CA-CB-CG	8.20	134.17	115.30
1	8-C	198	ASP	CB-CG-OD2	8.20	125.68	118.30
1	20-C	1041	ASP	CB-CG-OD1	8.20	125.67	118.30
1	20-B	985	ASP	CB-CG-OD1	8.19	125.67	118.30
1	13-B	663	ASP	CB-CG-OD1	8.18	125.66	118.30
1	3-A	878	LEU	CA-CB-CG	8.17	134.09	115.30
1	3-B	985	ASP	CB-CG-OD1	8.16	125.64	118.30
1	1-B	985	ASP	CB-CG-OD1	8.15	125.64	118.30
1	12-B	762	GLN	CA-CB-CG	8.15	131.33	113.40
1	1-B	959	LEU	CA-CB-CG	8.14	134.03	115.30
1	14-B	1127	ASP	CB-CG-OD2	8.13	125.62	118.30
1	3-A	1034	LEU	CA-CB-CG	8.12	133.98	115.30
1	2-A	1005	GLN	CA-CB-CG	8.10	131.22	113.40
1	10-B	898	PHE	CB-CG-CD2	8.10	126.47	120.80
1	9-C	869	MET	CB-CG-SD	8.09	136.68	112.40
1	19-C	763	LEU	CB-CG-CD2	8.09	124.75	111.00
1	14-B	141	LEU	CA-CB-CG	8.08	133.89	115.30
1	5-B	878	LEU	CA-CB-CG	8.06	133.85	115.30
1	13-C	1050	MET	CG-SD-CE	-8.06	87.30	100.20
1	9-C	1012	LEU	CA-CB-CG	8.05	133.83	115.30
1	19-C	1024	LEU	CA-CB-CG	8.04	133.79	115.30
1	5-A	140	PHE	CB-CG-CD1	8.04	126.43	120.80
1	7-A	984	LEU	CA-CB-CG	8.04	133.78	115.30
1	7-C	984	LEU	CA-CB-CG	8.03	133.78	115.30
1	14-B	755	GLN	CA-CB-CG	8.02	131.04	113.40
1	19-A	56	LEU	CA-CB-CG	8.02	133.74	115.30
1	4-C	117	LEU	CA-CB-CG	8.01	133.73	115.30
1	11-B	727	LEU	CA-CB-CG	8.01	133.72	115.30
1	8-A	172	SER	C-N-CA	8.01	141.72	121.70
1	19-A	611	LEU	CB-CG-CD1	-8.00	97.39	111.00
1	3-B	878	LEU	CA-CB-CG	8.00	133.70	115.30
1	4-A	984	LEU	CA-CB-CG	8.00	133.70	115.30
1	7-C	754	LEU	CA-CB-CG	8.00	133.70	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	12-B	737	ASP	CB-CG-OD1	7.99	125.49	118.30
1	10-A	916	LEU	CB-CG-CD1	-7.99	97.42	111.00
1	5-A	177	MET	CA-CB-CG	7.98	126.87	113.30
1	18-B	293	LEU	CB-CG-CD2	7.95	124.52	111.00
1	19-A	985	ASP	CB-CG-OD1	7.94	125.45	118.30
1	4-C	754	LEU	CA-CB-CG	7.93	133.54	115.30
1	12-C	198	ASP	CB-CG-OD1	7.93	125.44	118.30
1	7-B	962	LEU	CB-CG-CD1	-7.92	97.53	111.00
1	14-C	796	ASP	CB-CG-OD1	7.92	125.43	118.30
1	13-B	959	LEU	CA-CB-CG	7.92	133.52	115.30
1	2-C	864	LEU	CA-CB-CG	7.92	133.51	115.30
1	18-A	864	LEU	CA-CB-CG	7.92	133.51	115.30
1	10-B	663	ASP	CB-CG-OD1	7.91	125.42	118.30
1	12-C	763	LEU	CA-CB-CG	7.91	133.49	115.30
1	4-C	198	ASP	CB-CG-OD1	7.90	125.41	118.30
1	17-B	753	LEU	CA-CB-CG	7.90	133.46	115.30
1	9-A	895	GLN	CA-CB-CG	7.89	130.77	113.40
1	12-C	753	LEU	CA-CB-CG	7.89	133.44	115.30
1	11-C	979	ASP	CB-CG-OD1	7.87	125.38	118.30
1	7-C	763	LEU	CA-CB-CG	7.87	133.40	115.30
1	9-B	538	CYS	CA-CB-SG	7.87	128.17	114.00
1	19-A	296	LEU	CB-CG-CD1	-7.86	97.64	111.00
1	9-B	916	LEU	CB-CG-CD2	7.86	124.36	111.00
1	17-B	428	ASP	CB-CG-OD1	7.85	125.36	118.30
1	20-B	753	LEU	CA-CB-CG	7.85	133.35	115.30
1	5-A	198	ASP	CB-CG-OD1	7.84	125.36	118.30
1	5-C	1012	LEU	CA-CB-CG	7.84	133.33	115.30
1	11-C	699	LEU	CA-CB-CG	7.84	133.32	115.30
1	8-A	753	LEU	CA-CB-CG	7.83	133.30	115.30
1	19-C	996	LEU	CA-CB-CG	7.81	133.25	115.30
1	1-A	878	LEU	CA-CB-CG	7.80	133.24	115.30
1	16-C	753	LEU	CA-CB-CG	7.80	133.24	115.30
1	20-A	574	ASP	CB-CG-OD1	7.80	125.32	118.30
1	3-A	574	ASP	CB-CG-OD1	7.79	125.31	118.30
1	8-A	763	LEU	CA-CB-CG	7.79	133.21	115.30
1	15-B	864	LEU	CA-CB-CG	7.78	133.20	115.30
1	8-B	959	LEU	CA-CB-CG	7.78	133.18	115.30
1	12-A	762	GLN	CA-CB-CG	7.77	130.49	113.40
1	19-C	328	ARG	CG-CD-NE	7.76	128.10	111.80
1	10-B	697	MET	CB-CG-SD	7.76	135.69	112.40
1	20-B	287	ASP	CB-CG-OD1	7.76	125.29	118.30
1	4-B	763	LEU	CB-CG-CD2	7.75	124.18	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6-A	1118	ASP	CB-CG-OD2	7.75	125.28	118.30
1	18-B	762	GLN	CA-CB-CG	7.75	130.46	113.40
1	19-C	877	LEU	CA-CB-CG	7.75	133.12	115.30
1	9-C	985	ASP	CB-CG-OD2	7.74	125.26	118.30
1	14-A	1127	ASP	CB-CG-OD2	7.73	125.26	118.30
1	20-A	763	LEU	CA-CB-CG	7.72	133.06	115.30
1	2-A	895	GLN	CA-CB-CG	7.72	130.38	113.40
1	7-A	864	LEU	CA-CB-CG	7.72	133.06	115.30
1	15-B	754	LEU	CA-CB-CG	7.72	133.05	115.30
1	3-B	611	LEU	CA-CB-CG	7.72	133.05	115.30
1	1-B	898	PHE	CB-CG-CD1	7.71	126.20	120.80
1	15-C	922	LEU	CA-CB-CG	7.69	132.99	115.30
1	10-A	189	LEU	CA-CB-CG	7.68	132.97	115.30
1	14-B	663	ASP	CB-CG-OD2	7.67	125.21	118.30
1	4-B	663	ASP	CB-CG-OD2	7.67	125.21	118.30
1	7-B	291	CYS	CA-CB-SG	7.66	127.79	114.00
1	19-C	984	LEU	CA-CB-CG	7.66	132.91	115.30
1	20-C	902	MET	CA-CB-CG	7.65	126.31	113.30
1	2-B	287	ASP	CB-CG-OD1	7.65	125.18	118.30
1	19-C	1012	LEU	CA-CB-CG	7.64	132.88	115.30
1	9-A	765	ARG	CA-CB-CG	7.64	130.21	113.40
1	17-A	568	ASP	CB-CG-OD1	7.64	125.18	118.30
1	6-A	985	ASP	CB-CG-OD1	7.64	125.17	118.30
1	9-A	568	ASP	CB-CG-OD1	7.63	125.17	118.30
1	8-A	568	ASP	CB-CG-OD1	7.63	125.17	118.30
1	12-C	996	LEU	CA-CB-CG	7.62	132.83	115.30
1	13-C	738	CYS	CA-CB-SG	7.62	127.72	114.00
1	11-B	985	ASP	CB-CG-OD1	7.62	125.16	118.30
1	12-B	822	LEU	CA-CB-CG	7.61	132.81	115.30
1	12-A	996	LEU	CA-CB-CG	7.60	132.79	115.30
1	12-C	864	LEU	CA-CB-CG	7.60	132.77	115.30
1	13-B	753	LEU	CA-CB-CG	7.58	132.74	115.30
1	14-C	966	LEU	CA-CB-CG	7.58	132.73	115.30
1	13-C	1012	LEU	CA-CB-CG	7.57	132.71	115.30
1	17-B	1012	LEU	CA-CB-CG	7.57	132.71	115.30
1	19-A	938	LEU	CA-CB-CG	7.57	132.71	115.30
1	3-A	755	GLN	CA-CB-CG	7.57	130.04	113.40
1	13-C	168	PHE	CB-CG-CD1	7.57	126.09	120.80
1	20-B	959	LEU	CA-CB-CG	7.57	132.70	115.30
1	10-A	1010	GLN	CA-CB-CG	7.56	130.03	113.40
1	1-A	568	ASP	CB-CG-OD1	7.55	125.10	118.30
1	20-C	198	ASP	CB-CG-OD1	7.54	125.09	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-A	198	ASP	CB-CG-OD2	7.54	125.08	118.30
1	4-C	882	ILE	CG1-CB-CG2	-7.53	94.83	111.40
1	1-A	763	LEU	CA-CB-CG	7.53	132.61	115.30
1	19-A	56	LEU	CB-CG-CD2	-7.53	98.21	111.00
1	19-A	287	ASP	CB-CG-OD1	7.53	125.07	118.30
1	15-A	697	MET	CA-CB-CG	7.52	126.08	113.30
1	14-A	763	LEU	CA-CB-CG	7.51	132.58	115.30
1	15-C	663	ASP	CB-CG-OD2	7.51	125.06	118.30
1	9-C	948	LEU	CA-CB-CG	7.51	132.58	115.30
1	2-A	1012	LEU	CA-CB-CG	7.51	132.57	115.30
1	17-B	177	MET	CG-SD-CE	-7.50	88.20	100.20
1	8-C	902	MET	CA-CB-CG	7.49	126.03	113.30
1	15-C	806	LEU	CA-CB-CG	7.49	132.52	115.30
1	19-B	760	CYS	CA-CB-SG	-7.49	100.52	114.00
1	5-C	198	ASP	CB-CG-OD1	7.49	125.04	118.30
1	6-A	1012	LEU	CA-CB-CG	7.47	132.49	115.30
1	4-C	922	LEU	CA-CB-CG	7.47	132.49	115.30
1	6-A	916	LEU	CB-CG-CD2	-7.47	98.30	111.00
1	10-C	966	LEU	CA-CB-CG	7.47	132.48	115.30
1	4-C	916	LEU	CB-CG-CD2	-7.46	98.31	111.00
1	8-C	650	LEU	CA-CB-CG	7.46	132.47	115.30
1	13-C	86	PHE	CB-CG-CD1	7.46	126.02	120.80
1	19-A	194	PHE	CB-CG-CD2	-7.45	115.59	120.80
1	20-C	922	LEU	CA-CB-CG	7.45	132.43	115.30
1	12-A	737	ASP	CB-CG-OD1	7.44	125.00	118.30
1	3-C	198	ASP	CB-CG-OD1	7.43	124.99	118.30
1	11-C	1005	GLN	CA-CB-CG	7.42	129.73	113.40
1	16-A	568	ASP	CB-CG-OD1	7.42	124.98	118.30
1	4-A	568	ASP	CB-CG-OD1	7.41	124.97	118.30
1	16-A	223	LEU	CA-CB-CG	7.41	132.35	115.30
1	10-B	959	LEU	CB-CG-CD2	7.41	123.60	111.00
1	20-A	568	ASP	CB-CG-OD1	7.41	124.97	118.30
1	6-B	959	LEU	CA-CB-CG	7.41	132.34	115.30
1	1-B	224	GLU	CA-CB-CG	7.41	129.69	113.40
1	10-C	41	LYS	CA-CB-CG	7.40	129.68	113.40
1	16-B	290	ASP	CB-CG-OD1	7.38	124.94	118.30
1	14-B	959	LEU	CB-CG-CD2	7.37	123.53	111.00
1	1-A	298	GLU	CA-CB-CG	7.37	129.60	113.40
1	13-B	985	ASP	CB-CG-OD1	7.36	124.93	118.30
1	20-C	538	CYS	CA-CB-SG	7.36	127.25	114.00
1	2-A	864	LEU	CA-CB-CG	7.36	132.22	115.30
1	10-C	277	LEU	CA-CB-CG	7.36	132.22	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	15-B	864	LEU	CB-CG-CD1	-7.36	98.50	111.00
1	20-B	118	LEU	CA-CB-CG	7.36	132.22	115.30
1	9-B	878	LEU	CA-CB-CG	7.34	132.19	115.30
1	12-B	294	ASP	CB-CG-OD1	7.34	124.91	118.30
1	17-B	898	PHE	CB-CG-CD1	7.34	125.94	120.80
1	20-C	117	LEU	CA-CB-CG	7.34	132.18	115.30
1	2-C	865	LEU	CA-CB-CG	7.34	132.17	115.30
1	13-B	84	LEU	CA-CB-CG	7.34	132.18	115.30
1	14-C	894	LEU	CA-CB-CG	7.33	132.16	115.30
1	13-B	964	LYS	CD-CE-NZ	-7.33	94.85	111.70
1	5-A	864	LEU	CA-CB-CG	7.33	132.15	115.30
1	5-B	959	LEU	CA-CB-CG	7.32	132.15	115.30
1	8-B	611	LEU	CA-CB-CG	7.32	132.14	115.30
1	14-C	996	LEU	CA-CB-CG	7.32	132.14	115.30
1	12-C	984	LEU	CA-CB-CG	7.31	132.11	115.30
1	12-C	118	LEU	CA-CB-CG	7.30	132.10	115.30
1	9-C	922	LEU	CA-CB-CG	7.30	132.09	115.30
1	16-C	938	LEU	CA-CB-CG	7.29	132.07	115.30
1	6-B	168	PHE	CB-CG-CD2	7.28	125.90	120.80
1	9-C	223	LEU	CB-CG-CD2	-7.28	98.62	111.00
1	1-A	864	LEU	CA-CB-CG	7.28	132.03	115.30
1	14-C	1141	LEU	CA-CB-CG	7.28	132.03	115.30
1	13-A	763	LEU	CA-CB-CG	7.27	132.03	115.30
1	19-C	985	ASP	CB-CG-OD1	7.26	124.83	118.30
1	3-C	753	LEU	CA-CB-CG	7.25	131.99	115.30
1	6-C	1012	LEU	CA-CB-CG	7.25	131.98	115.30
1	13-A	290	ASP	CB-CG-OD2	7.25	124.83	118.30
1	9-B	546	LEU	CA-CB-CG	7.25	131.97	115.30
1	16-B	611	LEU	CA-CB-CG	7.25	131.97	115.30
1	4-C	822	LEU	CA-CB-CG	7.24	131.95	115.30
1	5-B	86	PHE	CB-CG-CD1	7.24	125.87	120.80
1	14-C	922	LEU	CA-CB-CG	7.23	131.94	115.30
1	3-A	290	ASP	CB-CG-OD2	7.23	124.80	118.30
1	3-B	287	ASP	CB-CG-OD1	7.22	124.80	118.30
1	16-A	864	LEU	CA-CB-CG	7.22	131.91	115.30
1	10-B	1012	LEU	CA-CB-CG	7.22	131.91	115.30
1	5-A	140	PHE	CB-CG-CD2	-7.22	115.75	120.80
1	15-B	1024	LEU	CA-CB-CG	7.22	131.91	115.30
1	13-C	922	LEU	CA-CB-CG	7.22	131.90	115.30
1	2-B	737	ASP	CB-CG-OD2	7.22	124.79	118.30
1	9-A	697	MET	CA-CB-CG	7.22	125.57	113.30
1	19-B	770	ILE	CG1-CB-CG2	-7.22	95.53	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-B	1034	LEU	CA-CB-CG	7.21	131.90	115.30
1	2-B	776	LYS	CA-CB-CG	7.21	129.26	113.40
1	8-B	898	PHE	CB-CG-CD1	7.21	125.85	120.80
1	13-A	727	LEU	CA-CB-CG	7.21	131.87	115.30
1	19-C	922	LEU	CA-CB-CG	7.21	131.88	115.30
1	10-B	922	LEU	CA-CB-CG	7.21	131.87	115.30
1	9-B	934	ILE	CG1-CB-CG2	-7.20	95.56	111.40
1	3-C	1139	ASP	CB-CG-OD1	7.20	124.78	118.30
1	5-C	763	LEU	CB-CG-CD1	-7.20	98.77	111.00
1	8-A	864	LEU	CA-CB-CG	7.20	131.85	115.30
1	19-B	959	LEU	CA-CB-CG	7.20	131.85	115.30
1	12-A	945	LEU	CA-CB-CG	7.19	131.84	115.30
1	18-A	671	CYS	CA-CB-SG	7.19	126.94	114.00
1	1-A	1092	GLU	CA-CB-CG	7.18	129.21	113.40
1	12-C	985	ASP	CB-CG-OD2	7.18	124.76	118.30
1	15-A	568	ASP	CB-CG-OD1	7.18	124.76	118.30
1	19-B	1029	MET	CB-CG-SD	7.18	133.94	112.40
1	20-C	760	CYS	CA-CB-SG	-7.18	101.08	114.00
1	19-A	296	LEU	CA-CB-CG	7.17	131.80	115.30
1	16-C	727	LEU	CA-CB-CG	7.17	131.78	115.30
1	18-C	954	GLN	CA-CB-CG	7.17	129.16	113.40
1	7-B	1012	LEU	CB-CG-CD2	7.15	123.16	111.00
1	3-B	898	PHE	CB-CG-CD1	7.15	125.81	120.80
1	17-A	763	LEU	CA-CB-CG	7.15	131.74	115.30
1	16-B	922	LEU	CA-CB-CG	7.14	131.73	115.30
1	20-B	762	GLN	CA-CB-CG	7.14	129.11	113.40
1	6-B	985	ASP	CB-CG-OD1	7.14	124.72	118.30
1	9-A	900	MET	CG-SD-CE	-7.14	88.78	100.20
1	18-A	993	ILE	CG1-CB-CG2	-7.14	95.70	111.40
1	1-A	774	GLN	CA-CB-CG	7.14	129.10	113.40
1	2-C	776	LYS	CA-CB-CG	7.13	129.09	113.40
1	7-B	878	LEU	CB-CG-CD2	7.12	123.11	111.00
1	18-B	878	LEU	CA-CB-CG	7.12	131.67	115.30
1	14-C	737	ASP	CB-CG-OD2	7.12	124.70	118.30
1	1-C	938	LEU	CA-CB-CG	7.11	131.66	115.30
1	16-A	223	LEU	CB-CG-CD1	-7.11	98.91	111.00
1	10-C	922	LEU	CA-CB-CG	7.11	131.64	115.30
1	8-B	177	MET	CG-SD-CE	-7.09	88.85	100.20
1	1-C	770	ILE	CG1-CB-CG2	-7.09	95.81	111.40
1	20-A	1024	LEU	CB-CG-CD2	7.09	123.05	111.00
1	3-B	1139	ASP	CB-CG-OD2	7.08	124.67	118.30
1	18-C	763	LEU	CA-CB-CG	7.08	131.59	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9-C	117	LEU	CA-CB-CG	7.08	131.59	115.30
1	13-C	864	LEU	CA-CB-CG	7.08	131.57	115.30
1	17-C	877	LEU	CA-CB-CG	7.08	131.57	115.30
1	4-B	916	LEU	CB-CG-CD2	7.07	123.03	111.00
1	19-C	988	GLU	CA-CB-CG	7.07	128.96	113.40
1	2-A	737	ASP	CB-CG-OD1	7.07	124.66	118.30
1	5-B	117	LEU	CA-CB-CG	7.07	131.56	115.30
1	10-B	287	ASP	CB-CG-OD1	7.05	124.64	118.30
1	18-C	938	LEU	CA-CB-CG	7.05	131.51	115.30
1	7-C	737	ASP	CB-CG-OD1	7.04	124.64	118.30
1	6-A	878	LEU	CA-CB-CG	7.04	131.50	115.30
1	20-A	864	LEU	CA-CB-CG	7.04	131.50	115.30
1	15-B	753	LEU	CA-CB-CG	7.04	131.49	115.30
1	7-A	916	LEU	CB-CG-CD2	-7.02	99.07	111.00
1	12-C	172	SER	C-N-CA	7.02	139.24	121.70
1	2-C	954	GLN	CA-CB-CG	7.02	128.84	113.40
1	10-B	959	LEU	CA-CB-CG	7.01	131.44	115.30
1	11-C	738	CYS	CA-CB-SG	7.01	126.63	114.00
1	9-A	754	LEU	CA-CB-CG	7.01	131.43	115.30
1	16-C	198	ASP	CB-CG-OD1	7.01	124.61	118.30
1	5-B	985	ASP	CB-CG-OD1	7.00	124.60	118.30
1	15-C	1012	LEU	CA-CB-CG	7.00	131.41	115.30
1	19-B	287	ASP	CB-CG-OD2	7.00	124.60	118.30
1	11-B	948	LEU	CA-CB-CG	7.00	131.39	115.30
1	1-C	753	LEU	CA-CB-CG	6.99	131.38	115.30
1	4-A	878	LEU	CA-CB-CG	6.99	131.38	115.30
1	20-A	994	ASP	CB-CG-OD1	6.99	124.59	118.30
1	1-B	762	GLN	CA-CB-CG	6.98	128.76	113.40
1	8-A	675	GLN	CA-CB-CG	6.98	128.75	113.40
1	17-B	743	CYS	CA-CB-SG	6.98	126.56	114.00
1	10-C	86	PHE	CB-CG-CD1	6.98	125.68	120.80
1	17-B	586	ASP	CB-CG-OD1	6.97	124.58	118.30
1	14-B	1139	ASP	CB-CG-OD2	6.97	124.57	118.30
1	8-C	776	LYS	CA-CB-CG	6.96	128.71	113.40
1	20-A	765	ARG	CA-CB-CG	6.96	128.71	113.40
1	18-B	118	LEU	CA-CB-CG	6.96	131.30	115.30
1	3-A	229	LEU	CA-CB-CG	6.95	131.29	115.30
1	18-C	780	GLU	N-CA-CB	6.95	123.12	110.60
1	20-A	762	GLN	CA-CB-CG	6.95	128.70	113.40
1	13-C	586	ASP	CB-CG-OD1	6.95	124.56	118.30
1	3-A	1118	ASP	CB-CG-OD2	6.95	124.55	118.30
1	4-C	177	MET	CA-CB-CG	6.94	125.10	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	19-B	118	LEU	CA-CB-CG	6.94	131.26	115.30
1	6-B	663	ASP	CB-CG-OD1	6.93	124.54	118.30
1	7-A	1029	MET	CB-CG-SD	6.93	133.20	112.40
1	13-C	1002	GLN	CA-CB-CG	6.93	128.65	113.40
1	1-A	585	LEU	CA-CB-CG	6.92	131.22	115.30
1	7-B	966	LEU	CA-CB-CG	6.92	131.22	115.30
1	2-C	198	ASP	CB-CG-OD1	6.92	124.53	118.30
1	13-A	737	ASP	CB-CG-OD1	6.91	124.52	118.30
1	10-A	1041	ASP	CB-CG-OD1	6.91	124.52	118.30
1	14-A	117	LEU	CA-CB-CG	6.91	131.19	115.30
1	11-A	1012	LEU	CB-CG-CD2	6.90	122.73	111.00
1	15-C	864	LEU	CA-CB-CG	6.90	131.16	115.30
1	7-B	985	ASP	CB-CG-OD2	6.89	124.50	118.30
1	17-B	878	LEU	CB-CG-CD2	6.89	122.72	111.00
1	20-B	663	ASP	CB-CG-OD1	6.89	124.50	118.30
1	3-A	727	LEU	CA-CB-CG	6.89	131.14	115.30
1	4-B	727	LEU	CA-CB-CG	6.88	131.13	115.30
1	12-B	985	ASP	CB-CG-OD1	6.88	124.50	118.30
1	6-C	864	LEU	CA-CB-CG	6.88	131.12	115.30
1	13-B	776	LYS	CA-CB-CG	6.87	128.52	113.40
1	13-A	552	LEU	CA-CB-CG	6.87	131.10	115.30
1	14-B	948	LEU	CA-CB-CG	6.87	131.10	115.30
1	18-B	822	LEU	CA-CB-CG	6.86	131.08	115.30
1	14-C	957	GLN	CA-CB-CG	6.86	128.49	113.40
1	10-C	754	LEU	CA-CB-CG	6.85	131.06	115.30
1	14-C	1034	LEU	CA-CB-CG	6.85	131.05	115.30
1	2-A	762	GLN	CA-CB-CG	6.84	128.45	113.40
1	7-C	298	GLU	N-CA-CB	6.84	122.91	110.60
1	9-C	760	CYS	CA-CB-SG	-6.84	101.69	114.00
1	5-A	878	LEU	CB-CG-CD2	6.83	122.62	111.00
1	14-C	117	LEU	CA-CB-CG	6.83	131.01	115.30
1	3-B	55	PHE	CB-CG-CD2	6.83	125.58	120.80
1	11-C	271	GLN	CA-CB-CG	6.83	128.42	113.40
1	17-C	675	GLN	CA-CB-CG	6.82	128.40	113.40
1	17-C	894	LEU	CA-CB-CG	6.82	130.98	115.30
1	14-B	287	ASP	CB-CG-OD1	6.80	124.42	118.30
1	4-B	898	PHE	CB-CG-CD1	6.80	125.56	120.80
1	10-A	697	MET	CB-CG-SD	6.80	132.81	112.40
1	16-A	574	ASP	CB-CG-OD2	6.80	124.42	118.30
1	10-B	780	GLU	CA-CB-CG	6.80	128.36	113.40
1	3-B	118	LEU	CA-CB-CG	6.80	130.94	115.30
1	1-A	776	LYS	CA-CB-CG	6.79	128.35	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4-C	1004	LEU	CB-CG-CD2	6.79	122.55	111.00
1	1-B	117	LEU	CA-CB-CG	6.79	130.93	115.30
1	14-C	118	LEU	CA-CB-CG	6.79	130.93	115.30
1	8-A	56	LEU	CB-CG-CD2	-6.79	99.45	111.00
1	13-A	194	PHE	CB-CG-CD1	6.79	125.55	120.80
1	10-B	118	LEU	CA-CB-CG	6.78	130.89	115.30
1	4-C	1029	MET	CB-CG-SD	6.77	132.72	112.40
1	10-A	697	MET	CA-CB-CG	6.77	124.81	113.30
1	4-C	938	LEU	CA-CB-CG	6.77	130.86	115.30
1	13-C	806	LEU	CA-CB-CG	6.77	130.87	115.30
1	11-B	938	LEU	CA-CB-CG	6.76	130.86	115.30
1	19-A	962	LEU	CA-CB-CG	6.76	130.86	115.30
1	14-A	172	SER	C-N-CA	6.76	138.60	121.70
1	10-C	118	LEU	CA-CB-CG	6.76	130.84	115.30
1	12-A	767	LEU	CA-CB-CG	6.76	130.84	115.30
1	15-C	1024	LEU	CA-CB-CG	6.75	130.82	115.30
1	3-A	864	LEU	CA-CB-CG	6.75	130.82	115.30
1	19-A	194	PHE	CB-CG-CD1	6.75	125.52	120.80
1	11-A	574	ASP	CB-CG-OD2	6.74	124.37	118.30
1	19-B	663	ASP	CB-CG-OD2	6.74	124.37	118.30
1	5-B	878	LEU	CB-CG-CD2	6.74	122.46	111.00
1	9-A	822	LEU	CA-CB-CG	6.74	130.80	115.30
1	20-A	293	LEU	CB-CG-CD2	6.74	122.46	111.00
1	17-A	996	LEU	CA-CB-CG	6.74	130.80	115.30
1	8-A	938	LEU	CA-CB-CG	6.74	130.80	115.30
1	20-A	298	GLU	CA-CB-CG	6.74	128.22	113.40
1	19-B	1024	LEU	CA-CB-CG	6.73	130.79	115.30
1	9-A	671	CYS	CA-CB-SG	6.73	126.12	114.00
1	8-B	1018	ILE	CG1-CB-CG2	-6.72	96.61	111.40
1	2-B	950	ASP	CB-CG-OD1	6.72	124.35	118.30
1	8-C	966	LEU	CA-CB-CG	6.72	130.76	115.30
1	14-A	864	LEU	CA-CB-CG	6.72	130.75	115.30
1	11-C	916	LEU	CB-CG-CD2	-6.72	99.58	111.00
1	19-C	877	LEU	CB-CG-CD2	6.72	122.42	111.00
1	19-A	738	CYS	CA-CB-SG	6.71	126.08	114.00
1	10-B	776	LYS	CA-CB-CG	6.71	128.16	113.40
1	12-C	740	MET	CB-CG-SD	6.70	132.51	112.40
1	20-C	428	ASP	CB-CG-OD2	-6.70	112.27	118.30
1	19-B	981	LEU	CA-CB-CG	6.70	130.70	115.30
1	5-B	985	ASP	CB-CA-C	6.69	123.78	110.40
1	8-B	287	ASP	CB-CG-OD2	6.69	124.32	118.30
1	10-C	294	ASP	CB-CG-OD1	6.69	124.32	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9-A	822	LEU	CB-CG-CD2	6.69	122.37	111.00
1	12-B	773	GLU	CA-CB-CG	6.69	128.12	113.40
1	2-C	675	GLN	CA-CB-CG	6.69	128.11	113.40
1	14-C	902	MET	CA-CB-CG	6.69	124.67	113.30
1	16-C	817	PHE	CB-CG-CD1	6.69	125.48	120.80
1	19-B	1012	LEU	CB-CG-CD2	6.68	122.36	111.00
1	9-B	590	CYS	CA-CB-SG	6.68	126.03	114.00
1	2-B	40	ASP	CB-CG-OD2	6.68	124.31	118.30
1	9-C	287	ASP	CB-CG-OD2	6.68	124.31	118.30
1	20-B	822	LEU	CA-CB-CG	6.68	130.66	115.30
1	17-C	88	ASP	CB-CG-OD1	-6.67	112.30	118.30
1	8-A	996	LEU	CA-CB-CG	6.67	130.64	115.30
1	20-C	129	LYS	CA-CB-CG	6.67	128.07	113.40
1	12-C	671	CYS	CB-CA-C	6.67	123.73	110.40
1	3-B	731	MET	CA-CB-CG	6.67	124.63	113.30
1	5-B	301	CYS	CA-CB-SG	6.66	126.00	114.00
1	13-B	699	LEU	CB-CG-CD2	-6.66	99.67	111.00
1	4-B	954	GLN	N-CA-CB	6.66	122.59	110.60
1	6-B	293	LEU	CA-CB-CG	6.66	130.61	115.30
1	19-C	168	PHE	CB-CG-CD2	6.66	125.46	120.80
1	5-A	296	LEU	CA-CB-CG	6.66	130.61	115.30
1	4-B	796	ASP	CB-CG-OD2	6.65	124.28	118.30
1	4-B	954	GLN	CA-CB-CG	6.65	128.03	113.40
1	7-B	303	LEU	CA-CB-CG	6.65	130.60	115.30
1	10-B	727	LEU	CA-CB-CG	6.65	130.60	115.30
1	8-B	737	ASP	CB-CG-OD2	6.65	124.28	118.30
1	11-C	1029	MET	CB-CG-SD	6.65	132.34	112.40
1	3-B	985	ASP	CB-CA-C	6.65	123.69	110.40
1	15-C	117	LEU	CA-CB-CG	6.65	130.59	115.30
1	9-A	660	TYR	CA-CB-CG	6.64	126.03	113.40
1	2-B	864	LEU	CA-CB-CG	6.64	130.58	115.30
1	11-B	291	CYS	CA-CB-SG	6.64	125.96	114.00
1	6-C	950	ASP	CB-CG-OD1	6.64	124.28	118.30
1	19-C	697	MET	CG-SD-CE	6.64	110.83	100.20
1	20-C	335	LEU	CA-CB-CG	6.64	130.57	115.30
1	6-A	697	MET	CA-CB-CG	6.64	124.58	113.30
1	12-A	776	LYS	CA-CB-CG	6.64	128.00	113.40
1	14-B	168	PHE	CB-CG-CD2	6.64	125.45	120.80
1	2-B	699	LEU	CB-CG-CD2	-6.63	99.72	111.00
1	1-B	359	SER	C-N-CA	6.63	138.28	121.70
1	14-A	900	MET	CG-SD-CE	-6.63	89.59	100.20
1	9-A	741	TYR	CB-CG-CD1	6.63	124.98	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-B	780	GLU	N-CA-CB	6.62	122.52	110.60
1	5-B	957	GLN	CA-CB-CG	6.62	127.97	113.40
1	8-C	276	LEU	CB-CG-CD2	6.62	122.25	111.00
1	9-B	287	ASP	CB-CG-OD1	6.62	124.26	118.30
1	9-C	754	LEU	CA-CB-CG	6.62	130.52	115.30
1	12-A	755	GLN	CA-CB-CG	6.62	127.96	113.40
1	12-A	981	LEU	CA-CB-CG	6.62	130.52	115.30
1	4-C	729	VAL	CA-CB-CG1	6.62	120.82	110.90
1	2-C	737	ASP	CB-CG-OD1	6.61	124.25	118.30
1	11-A	293	LEU	CB-CG-CD2	6.61	122.24	111.00
1	5-A	737	ASP	CB-CG-OD1	6.61	124.25	118.30
1	1-A	737	ASP	CB-CG-OD1	6.60	124.24	118.30
1	16-A	1024	LEU	CA-CB-CG	6.60	130.48	115.30
1	2-A	671	CYS	CA-CB-SG	6.60	125.88	114.00
1	9-B	454	ARG	CA-CB-CG	6.60	127.92	113.40
1	6-C	1029	MET	CB-CG-SD	6.60	132.19	112.40
1	10-A	985	ASP	CB-CG-OD1	6.59	124.24	118.30
1	13-B	985	ASP	CB-CA-C	6.59	123.59	110.40
1	2-A	993	ILE	CG1-CB-CG2	-6.59	96.91	111.40
1	2-B	117	LEU	CA-CB-CG	6.59	130.45	115.30
1	18-C	773	GLU	CA-CB-CG	6.58	127.89	113.40
1	20-C	1050	MET	N-CA-CB	6.58	122.45	110.60
1	10-A	40	ASP	CB-CG-OD1	6.58	124.22	118.30
1	1-A	945	LEU	CA-CB-CG	6.57	130.41	115.30
1	4-B	118	LEU	CA-CB-CG	6.57	130.42	115.30
1	4-B	1024	LEU	CA-CB-CG	6.57	130.41	115.30
1	4-C	1024	LEU	CA-CB-CG	6.57	130.41	115.30
1	11-C	118	LEU	CA-CB-CG	6.57	130.41	115.30
1	12-B	996	LEU	CA-CB-CG	6.57	130.40	115.30
1	20-B	938	LEU	CA-CB-CG	6.56	130.40	115.30
1	5-A	738	CYS	CA-CB-SG	6.56	125.81	114.00
1	20-A	727	LEU	CB-CG-CD1	-6.56	99.85	111.00
1	11-A	533	LEU	CA-CB-CG	6.56	130.38	115.30
1	7-C	877	LEU	CA-CB-CG	6.55	130.38	115.30
1	16-C	737	ASP	CB-CG-OD1	6.55	124.20	118.30
1	3-B	959	LEU	CA-CB-CG	6.55	130.37	115.30
1	10-A	1013	ILE	CA-CB-CG1	6.55	123.44	111.00
1	19-B	996	LEU	CA-CB-CG	6.55	130.36	115.30
1	8-C	172	SER	C-N-CA	6.54	138.06	121.70
1	10-C	979	ASP	CB-CG-OD1	6.54	124.19	118.30
1	12-B	985	ASP	CB-CA-C	6.54	123.49	110.40
1	13-A	731	MET	CB-CG-SD	6.54	132.03	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	13-C	877	LEU	CA-CB-CG	6.54	130.35	115.30
1	19-A	1024	LEU	CA-CB-CG	6.54	130.35	115.30
1	7-B	990	GLU	CA-CB-CG	6.54	127.78	113.40
1	18-B	948	LEU	CA-CB-CG	6.54	130.34	115.30
1	6-C	291	CYS	CA-CB-SG	6.54	125.77	114.00
1	5-C	118	LEU	CA-CB-CG	6.53	130.32	115.30
1	2-B	1024	LEU	CA-CB-CG	6.53	130.31	115.30
1	2-B	996	LEU	CA-CB-CG	6.53	130.31	115.30
1	20-B	1029	MET	CB-CG-SD	6.53	131.97	112.40
1	13-B	922	LEU	CA-CB-CG	6.52	130.30	115.30
1	4-C	966	LEU	CA-CB-CG	6.52	130.30	115.30
1	7-B	864	LEU	CB-CG-CD1	-6.52	99.92	111.00
1	10-A	767	LEU	CB-CG-CD1	6.52	122.08	111.00
1	5-C	1012	LEU	CB-CG-CD2	6.52	122.08	111.00
1	18-A	1029	MET	CB-CG-SD	6.51	131.94	112.40
1	4-A	916	LEU	CB-CG-CD1	-6.51	99.93	111.00
1	5-A	1012	LEU	CB-CG-CD2	6.51	122.07	111.00
1	1-B	996	LEU	CA-CB-CG	6.51	130.27	115.30
1	3-A	770	ILE	CG1-CB-CG2	-6.50	97.09	111.40
1	10-C	1041	ASP	CB-CG-OD2	6.50	124.15	118.30
1	6-C	675	GLN	CB-CA-C	6.50	123.40	110.40
1	19-C	894	LEU	CA-CB-CG	6.50	130.25	115.30
1	15-C	1029	MET	CB-CG-SD	6.50	131.89	112.40
1	16-B	198	ASP	CB-CG-OD1	6.49	124.14	118.30
1	1-A	697	MET	CA-CB-CG	6.49	124.34	113.30
1	18-A	558	LYS	CA-CB-CG	6.49	127.68	113.40
1	7-C	276	LEU	CB-CG-CD2	6.49	122.02	111.00
1	18-A	1012	LEU	CA-CB-CG	6.49	130.22	115.30
1	18-C	954	GLN	N-CA-CB	6.49	122.28	110.60
1	19-B	776	LYS	CA-CB-CG	6.49	127.67	113.40
1	19-A	781	VAL	CA-CB-CG1	6.48	120.62	110.90
1	13-C	760	CYS	CA-CB-SG	-6.48	102.34	114.00
1	11-A	590	CYS	CA-CB-SG	6.48	125.66	114.00
1	2-B	765	ARG	CB-CG-CD	-6.47	94.77	111.60
1	2-B	1029	MET	CB-CG-SD	6.47	131.82	112.40
1	1-C	172	SER	C-N-CA	6.47	137.88	121.70
1	12-B	765	ARG	CB-CG-CD	-6.47	94.77	111.60
1	2-B	1012	LEU	CA-CB-CG	6.47	130.18	115.30
1	2-C	954	GLN	N-CA-CB	6.47	122.25	110.60
1	15-B	752	LEU	CB-CG-CD1	-6.47	100.00	111.00
1	2-B	229	LEU	CA-CB-CG	6.46	130.17	115.30
1	7-C	994	ASP	CB-CG-OD2	6.46	124.12	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14-A	781	VAL	CA-CB-CG1	6.46	120.59	110.90
1	13-C	1005	GLN	CA-CB-CG	6.46	127.61	113.40
1	12-A	287	ASP	CB-CG-OD2	6.46	124.11	118.30
1	12-A	1029	MET	CB-CG-SD	6.46	131.77	112.40
1	18-B	287	ASP	CB-CG-OD2	6.46	124.11	118.30
1	20-B	1002	GLN	CA-CB-CG	6.46	127.60	113.40
1	9-A	172	SER	C-N-CA	6.45	137.83	121.70
1	18-A	293	LEU	CA-CB-CG	6.45	130.14	115.30
1	16-A	774	GLN	CA-CB-CG	6.45	127.59	113.40
1	16-B	296	LEU	CA-CB-CG	6.44	130.12	115.30
1	16-B	954	GLN	CA-CB-CG	6.44	127.57	113.40
1	3-C	88	ASP	CB-CG-OD1	6.44	124.10	118.30
1	15-C	909	ILE	CG1-CB-CG2	-6.44	97.23	111.40
1	4-A	763	LEU	CA-CB-CG	6.44	130.11	115.30
1	11-B	767	LEU	CA-CB-CG	6.44	130.10	115.30
1	11-B	959	LEU	CB-CG-CD2	6.44	121.94	111.00
1	4-B	985	ASP	CB-CG-OD2	6.43	124.09	118.30
1	5-B	948	LEU	CA-CB-CG	6.43	130.10	115.30
1	8-B	675	GLN	CA-CB-CG	6.43	127.55	113.40
1	10-B	177	MET	CA-CB-CG	6.43	124.23	113.30
1	13-B	822	LEU	CB-CG-CD1	6.43	121.93	111.00
1	20-A	201	PHE	CB-CG-CD1	6.43	125.30	120.80
1	20-C	590	CYS	CA-CB-SG	6.43	125.58	114.00
1	18-C	780	GLU	CA-CB-CG	6.43	127.54	113.40
1	20-C	560	LEU	CA-CB-CG	6.43	130.09	115.30
1	2-B	780	GLU	N-CA-CB	6.42	122.15	110.60
1	4-C	675	GLN	CA-CB-CG	6.42	127.52	113.40
1	4-B	878	LEU	CB-CG-CD2	6.41	121.90	111.00
1	13-B	954	GLN	CA-CB-CG	6.41	127.51	113.40
1	10-B	904	TYR	CB-CG-CD1	6.41	124.85	121.00
1	3-C	1029	MET	CB-CG-SD	6.41	131.63	112.40
1	13-C	198	ASP	CB-CG-OD1	6.41	124.07	118.30
1	6-B	538	CYS	CA-CB-SG	6.41	125.53	114.00
1	6-B	964	LYS	CD-CE-NZ	-6.41	96.96	111.70
1	15-B	675	GLN	CA-CB-CG	6.41	127.50	113.40
1	11-B	898	PHE	CB-CG-CD1	6.41	125.28	120.80
1	14-C	414	GLN	CA-CB-CG	6.41	127.50	113.40
1	3-B	945	LEU	CA-CB-CG	6.41	130.03	115.30
1	16-B	562	PHE	CB-CG-CD2	-6.40	116.32	120.80
1	20-B	776	LYS	CA-CB-CG	6.40	127.48	113.40
1	14-A	568	ASP	CB-CG-OD1	6.40	124.06	118.30
1	5-C	780	GLU	CA-CB-CG	6.40	127.48	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	13-A	948	LEU	CB-CG-CD1	-6.40	100.13	111.00
1	18-A	229	LEU	CB-CG-CD1	-6.40	100.13	111.00
1	1-C	117	LEU	CA-CB-CG	6.39	130.01	115.30
1	14-B	950	ASP	CB-CG-OD1	6.39	124.06	118.30
1	2-C	1005	GLN	CA-CB-CG	6.39	127.47	113.40
1	15-B	55	PHE	CB-CG-CD1	6.39	125.27	120.80
1	17-B	767	LEU	CA-CB-CG	6.39	130.00	115.30
1	5-A	763	LEU	CB-CG-CD1	6.39	121.86	111.00
1	17-C	966	LEU	CA-CB-CG	6.39	129.99	115.30
1	19-A	582	LEU	CA-CB-CG	6.39	129.99	115.30
1	12-B	1012	LEU	CA-CB-CG	6.38	129.98	115.30
1	19-B	959	LEU	CB-CG-CD2	6.38	121.85	111.00
1	9-B	55	PHE	CB-CG-CD1	6.37	125.26	120.80
1	2-B	754	LEU	CA-CB-CG	6.37	129.95	115.30
1	7-C	966	LEU	CA-CB-CG	6.37	129.94	115.30
1	2-A	226	LEU	CA-CB-CG	6.37	129.94	115.30
1	9-B	1018	ILE	CG1-CB-CG2	-6.37	97.40	111.40
1	16-A	922	LEU	CA-CB-CG	6.36	129.94	115.30
1	20-C	675	GLN	CA-CB-CG	6.36	127.40	113.40
1	6-B	727	LEU	CA-CB-CG	6.36	129.93	115.30
1	17-C	1041	ASP	CB-CG-OD1	6.36	124.02	118.30
1	2-C	770	ILE	CG1-CB-CG2	-6.36	97.42	111.40
1	13-B	177	MET	CG-SD-CE	-6.36	90.03	100.20
1	17-B	950	ASP	CB-CG-OD1	6.35	124.02	118.30
1	20-C	729	VAL	CA-CB-CG1	6.35	120.43	110.90
1	10-A	738	CYS	CA-CB-SG	6.35	125.43	114.00
1	6-C	1012	LEU	CB-CG-CD2	6.35	121.79	111.00
1	10-A	796	ASP	CB-CG-OD2	6.35	124.01	118.30
1	20-C	492	LEU	CA-CB-CG	6.35	129.90	115.30
1	15-A	1024	LEU	CA-CB-CG	6.34	129.89	115.30
1	1-C	966	LEU	CA-CB-CG	6.34	129.88	115.30
1	9-C	293	LEU	CB-CG-CD2	6.34	121.78	111.00
1	5-A	954	GLN	CA-CB-CG	6.34	127.34	113.40
1	13-C	1034	LEU	CA-CB-CG	6.33	129.87	115.30
1	1-A	934	ILE	CG1-CB-CG2	-6.33	97.47	111.40
1	9-B	959	LEU	CB-CG-CD2	6.33	121.76	111.00
1	15-B	41	LYS	CB-CG-CD	6.33	128.06	111.60
1	17-C	902	MET	CA-CB-CG	6.33	124.06	113.30
1	18-A	727	LEU	CA-CB-CG	6.33	129.85	115.30
1	20-B	1012	LEU	CA-CB-CG	6.33	129.86	115.30
1	9-B	878	LEU	CB-CG-CD2	6.33	121.75	111.00
1	10-C	902	MET	CA-CB-CG	6.32	124.05	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	16-C	533	LEU	CA-CB-CG	6.32	129.84	115.30
1	11-A	740	MET	CB-CG-SD	6.32	131.36	112.40
1	4-A	293	LEU	CB-CG-CD2	6.32	121.74	111.00
1	18-C	945	LEU	CA-CB-CG	6.32	129.82	115.30
1	14-B	118	LEU	CA-CB-CG	6.31	129.82	115.30
1	13-A	568	ASP	CB-CG-OD1	6.31	123.98	118.30
1	15-C	675	GLN	CA-CB-CG	6.31	127.29	113.40
1	4-C	1034	LEU	CA-CB-CG	6.31	129.81	115.30
1	9-B	120	VAL	CG1-CB-CG2	-6.31	100.81	110.90
1	19-B	1007	TYR	CB-CG-CD2	-6.31	117.22	121.00
1	10-A	781	VAL	CA-CB-CG1	6.30	120.36	110.90
1	8-C	864	LEU	CA-CB-CG	6.30	129.79	115.30
1	16-A	773	GLU	CA-CB-CG	6.30	127.26	113.40
1	17-B	729	VAL	CA-CB-CG1	6.30	120.35	110.90
1	14-A	938	LEU	CA-CB-CG	6.30	129.78	115.30
1	6-B	985	ASP	CB-CA-C	6.29	122.99	110.40
1	6-C	675	GLN	CA-CB-CG	6.29	127.24	113.40
1	8-C	938	LEU	CA-CB-CG	6.29	129.77	115.30
1	19-B	922	LEU	CA-CB-CG	6.29	129.77	115.30
1	1-C	675	GLN	CA-CB-CG	6.28	127.22	113.40
1	17-A	727	LEU	CA-CB-CG	6.28	129.75	115.30
1	8-A	1029	MET	CB-CG-SD	6.28	131.24	112.40
1	17-C	173	GLN	CA-CB-CG	6.28	127.22	113.40
1	1-A	290	ASP	CB-CG-OD2	6.28	123.95	118.30
1	1-B	898	PHE	CB-CG-CD2	-6.28	116.41	120.80
1	10-C	864	LEU	CA-CB-CG	6.28	129.74	115.30
1	6-B	55	PHE	CB-CG-CD1	6.28	125.19	120.80
1	14-B	934	ILE	CG1-CB-CG2	-6.27	97.60	111.40
1	2-B	780	GLU	CA-CB-CG	6.27	127.20	113.40
1	1-A	671	CYS	CA-CB-SG	6.27	125.29	114.00
1	18-C	1005	GLN	CA-CB-CG	6.26	127.18	113.40
1	20-A	201	PHE	CB-CG-CD2	-6.26	116.42	120.80
1	8-A	675	GLN	CB-CA-C	6.26	122.92	110.40
1	9-B	168	PHE	CB-CG-CD1	6.26	125.18	120.80
1	7-B	392	PHE	CB-CG-CD2	-6.26	116.42	120.80
1	17-A	822	LEU	CB-CG-CD2	6.26	121.64	111.00
1	13-C	996	LEU	CA-CB-CG	6.25	129.67	115.30
1	17-C	273	ARG	CG-CD-NE	6.24	124.90	111.80
1	4-C	1012	LEU	CA-CB-CG	6.24	129.64	115.30
1	12-B	954	GLN	CA-CB-CG	6.23	127.11	113.40
1	2-C	869	MET	CB-CG-SD	6.23	131.08	112.40
1	16-B	985	ASP	CB-CG-OD1	6.23	123.90	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1-C	118	LEU	CA-CB-CG	6.22	129.62	115.30
1	18-A	996	LEU	CA-CB-CG	6.22	129.61	115.30
1	20-A	984	LEU	CA-CB-CG	6.22	129.61	115.30
1	20-C	909	ILE	CG1-CB-CG2	-6.22	97.71	111.40
1	6-A	153	MET	CG-SD-CE	-6.22	90.25	100.20
1	9-B	117	LEU	CA-CB-CG	6.22	129.60	115.30
1	15-C	1012	LEU	CB-CG-CD2	6.22	121.57	111.00
1	12-B	755	GLN	CA-CB-CG	6.21	127.07	113.40
1	14-C	882	ILE	CG1-CB-CG2	-6.21	97.73	111.40
1	20-B	985	ASP	CB-CA-C	6.21	122.83	110.40
1	3-A	1012	LEU	CA-CB-CG	6.21	129.59	115.30
1	6-C	198	ASP	CB-CG-OD2	6.21	123.89	118.30
1	7-C	697	MET	CA-CB-CG	6.21	123.86	113.30
1	10-A	776	LYS	CA-CB-CG	6.21	127.06	113.40
1	14-A	663	ASP	CB-CG-OD1	6.21	123.89	118.30
1	9-B	822	LEU	CA-CB-CG	6.21	129.57	115.30
1	13-B	959	LEU	CB-CG-CD2	6.21	121.55	111.00
1	13-B	1018	ILE	CG1-CB-CG2	-6.20	97.75	111.40
1	7-C	1050	MET	N-CA-CB	6.20	121.76	110.60
1	9-C	40	ASP	CB-CG-OD2	6.20	123.88	118.30
1	16-C	755	GLN	CA-CB-CG	6.20	127.04	113.40
1	20-A	727	LEU	CA-CB-CG	6.20	129.55	115.30
1	7-C	650	LEU	CA-CB-CG	6.19	129.55	115.30
1	12-C	1127	ASP	CB-CG-OD1	6.19	123.87	118.30
1	14-A	671	CYS	CA-CB-SG	6.19	125.15	114.00
1	7-C	996	LEU	CA-CB-CG	6.19	129.54	115.30
1	8-B	945	LEU	CA-CB-CG	6.19	129.54	115.30
1	15-B	945	LEU	CA-CB-CG	6.19	129.54	115.30
1	18-A	962	LEU	CA-CB-CG	6.19	129.53	115.30
1	2-A	293	LEU	CB-CG-CD2	6.19	121.52	111.00
1	7-B	954	GLN	CA-CB-CG	6.19	127.01	113.40
1	5-C	650	LEU	CA-CB-CG	6.18	129.53	115.30
1	10-B	537	LYS	CA-CB-CG	6.18	127.00	113.40
1	9-A	759	PHE	CB-CG-CD1	6.18	125.12	120.80
1	13-C	902	MET	CB-CG-SD	6.17	130.92	112.40
1	11-B	806	LEU	CA-CB-CG	6.17	129.49	115.30
1	7-B	454	ARG	NE-CZ-NH1	6.17	123.38	120.30
1	11-B	118	LEU	CA-CB-CG	6.17	129.49	115.30
1	14-C	675	GLN	CA-CB-CG	6.17	126.97	113.40
1	18-C	996	LEU	CA-CB-CG	6.16	129.48	115.30
1	19-C	1050	MET	CG-SD-CE	-6.16	90.34	100.20
1	19-C	754	LEU	CA-CB-CG	6.16	129.47	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	18-B	611	LEU	CB-CG-CD1	-6.16	100.53	111.00
1	9-B	776	LYS	CA-CB-CG	6.16	126.95	113.40
1	17-A	1001	LEU	CB-CG-CD1	-6.16	100.53	111.00
1	16-A	878	LEU	CB-CG-CD2	6.16	121.46	111.00
1	7-B	1029	MET	CB-CG-SD	6.15	130.86	112.40
1	20-C	389	ASP	CB-CG-OD1	6.15	123.84	118.30
1	5-B	763	LEU	CA-CB-CG	6.15	129.45	115.30
1	6-B	675	GLN	CA-CB-CG	6.15	126.93	113.40
1	17-C	1127	ASP	CB-CG-OD1	6.15	123.83	118.30
1	20-B	898	PHE	CB-CG-CD1	6.15	125.11	120.80
1	3-C	568	ASP	CB-CG-OD2	6.15	123.83	118.30
1	8-C	671	CYS	CB-CA-C	6.15	122.69	110.40
1	9-B	1034	LEU	CB-CG-CD1	-6.14	100.56	111.00
1	16-B	562	PHE	CB-CG-CD1	6.14	125.10	120.80
1	2-B	118	LEU	CA-CB-CG	6.14	129.43	115.30
1	3-C	938	LEU	CA-CB-CG	6.14	129.43	115.30
1	17-C	1029	MET	CB-CG-SD	6.14	130.83	112.40
1	9-A	759	PHE	CB-CG-CD2	-6.14	116.50	120.80
1	9-A	781	VAL	CA-CB-CG1	6.14	120.11	110.90
1	19-C	586	ASP	CB-CG-OD2	6.14	123.82	118.30
1	11-A	1029	MET	CB-CG-SD	6.13	130.80	112.40
1	2-A	303	LEU	CA-CB-CG	6.13	129.40	115.30
1	4-B	959	LEU	CA-CB-CG	6.13	129.41	115.30
1	16-C	954	GLN	CA-CB-CG	6.13	126.89	113.40
1	12-B	1029	MET	CB-CG-SD	6.13	130.78	112.40
1	6-C	1041	ASP	CB-CG-OD1	6.13	123.81	118.30
1	12-C	168	PHE	CB-CG-CD1	6.12	125.09	120.80
1	17-A	1029	MET	CB-CG-SD	6.12	130.76	112.40
1	4-C	529	LYS	CA-CB-CG	6.12	126.86	113.40
1	10-B	898	PHE	CB-CG-CD1	-6.12	116.52	120.80
1	2-C	767	LEU	CB-CG-CD2	6.12	121.40	111.00
1	1-C	650	LEU	CA-CB-CG	6.12	129.37	115.30
1	18-B	985	ASP	CB-CG-OD2	6.12	123.80	118.30
1	13-A	900	MET	CG-SD-CE	-6.11	90.42	100.20
1	4-B	390	LEU	CA-CB-CG	6.11	129.36	115.30
1	12-A	962	LEU	CB-CG-CD2	6.11	121.39	111.00
1	6-C	894	LEU	CA-CB-CG	6.11	129.34	115.30
1	14-A	1029	MET	CB-CG-SD	6.11	130.72	112.40
1	15-B	985	ASP	CB-CG-OD2	6.11	123.79	118.30
1	19-A	1012	LEU	CB-CG-CD2	6.10	121.37	111.00
1	7-B	962	LEU	CA-CB-CG	6.10	129.33	115.30
1	16-B	1012	LEU	CA-CB-CG	6.10	129.33	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8-B	959	LEU	CB-CG-CD2	6.10	121.37	111.00
1	12-C	293	LEU	CA-CB-CG	6.10	129.32	115.30
1	7-B	117	LEU	CA-CB-CG	6.09	129.32	115.30
1	13-C	882	ILE	CB-CA-C	-6.09	99.41	111.60
1	8-C	1029	MET	CB-CG-SD	6.09	130.67	112.40
1	13-B	1024	LEU	CA-CB-CG	6.09	129.31	115.30
1	20-C	1024	LEU	CA-CB-CG	6.09	129.30	115.30
1	5-B	936	ASP	CB-CG-OD2	6.08	123.77	118.30
1	7-B	962	LEU	CB-CG-CD2	6.07	121.33	111.00
1	20-C	822	LEU	CA-CB-CG	6.07	129.27	115.30
1	3-C	922	LEU	CA-CB-CG	6.07	129.27	115.30
1	16-C	966	LEU	CA-CB-CG	6.07	129.26	115.30
1	19-A	877	LEU	CA-CB-CG	6.07	129.26	115.30
1	4-A	117	LEU	CA-CB-CG	6.07	129.25	115.30
1	1-A	727	LEU	CA-CB-CG	6.07	129.25	115.30
1	6-B	964	LYS	CA-CB-CG	6.07	126.74	113.40
1	19-B	894	LEU	CA-CB-CG	6.06	129.25	115.30
1	20-B	117	LEU	CA-CB-CG	6.06	129.25	115.30
1	13-C	1024	LEU	CA-CB-CG	6.06	129.24	115.30
1	14-C	996	LEU	CB-CG-CD2	6.06	121.30	111.00
1	20-A	1012	LEU	CA-CB-CG	6.06	129.24	115.30
1	9-A	753	LEU	CA-CB-CG	6.06	129.23	115.30
1	4-C	763	LEU	CA-CB-CG	6.05	129.23	115.30
1	8-C	754	LEU	CA-CB-CG	6.05	129.22	115.30
1	16-A	1050	MET	CG-SD-CE	-6.05	90.52	100.20
1	3-B	878	LEU	CB-CG-CD2	6.05	121.28	111.00
1	3-C	877	LEU	CB-CG-CD2	6.05	121.28	111.00
1	11-B	754	LEU	CA-CB-CG	6.05	129.21	115.30
1	14-B	1029	MET	CB-CG-SD	6.05	130.54	112.40
1	15-B	153	MET	CB-CG-SD	6.05	130.54	112.40
1	7-B	1001	LEU	CA-CB-CG	6.04	129.20	115.30
1	18-B	950	ASP	CB-CG-OD1	6.04	123.74	118.30
1	7-A	1041	ASP	CB-CG-OD2	-6.04	112.86	118.30
1	3-A	298	GLU	CA-CB-CG	6.04	126.68	113.40
1	6-C	895	GLN	CA-CB-CG	6.04	126.68	113.40
1	11-A	671	CYS	CA-CB-SG	6.04	124.86	114.00
1	16-B	877	LEU	CB-CG-CD1	-6.04	100.74	111.00
1	3-C	780	GLU	N-CA-CB	6.03	121.46	110.60
1	5-C	780	GLU	N-CA-CB	6.03	121.46	110.60
1	20-B	41	LYS	CB-CG-CD	6.03	127.29	111.60
1	3-B	898	PHE	CB-CG-CD2	-6.03	116.58	120.80
1	3-C	902	MET	CA-CB-CG	6.03	123.55	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8-B	1024	LEU	CA-CB-CG	6.03	129.17	115.30
1	13-C	53	ASP	CB-CG-OD1	6.03	123.73	118.30
1	15-A	1018	ILE	CG1-CB-CG2	-6.03	98.14	111.40
1	1-C	996	LEU	CA-CB-CG	6.03	129.16	115.30
1	5-A	290	ASP	CB-CG-OD2	6.02	123.72	118.30
1	10-C	1092	GLU	CA-CB-CG	6.02	126.65	113.40
1	15-C	895	GLN	CA-CB-CG	6.02	126.65	113.40
1	18-B	1010	GLN	CA-CB-CG	6.02	126.65	113.40
1	4-C	996	LEU	CA-CB-CG	6.01	129.13	115.30
1	9-C	904	TYR	CB-CA-C	-6.01	98.37	110.40
1	17-B	1012	LEU	CB-CG-CD2	6.01	121.22	111.00
1	10-B	577	ARG	CA-CB-CG	6.00	126.60	113.40
1	17-C	650	LEU	CA-CB-CG	6.00	129.10	115.30
1	2-C	1024	LEU	CA-CB-CG	6.00	129.09	115.30
1	2-C	754	LEU	CA-CB-CG	5.99	129.07	115.30
1	3-C	993	ILE	CG1-CB-CG2	-5.99	98.22	111.40
1	16-B	1018	ILE	CG1-CB-CG2	-5.99	98.22	111.40
1	16-B	1024	LEU	CA-CB-CG	5.99	129.08	115.30
1	3-C	737	ASP	CB-CG-OD1	5.99	123.69	118.30
1	10-B	945	LEU	CA-CB-CG	5.98	129.06	115.30
1	13-A	1050	MET	CG-SD-CE	5.98	109.77	100.20
1	7-C	938	LEU	CA-CB-CG	5.98	129.05	115.30
1	8-C	988	GLU	CA-CB-CG	5.97	126.55	113.40
1	6-B	922	LEU	CA-CB-CG	5.97	129.04	115.30
1	3-C	996	LEU	CA-CB-CG	5.97	129.03	115.30
1	2-A	966	LEU	CA-CB-CG	5.97	129.03	115.30
1	7-B	878	LEU	CA-CB-CG	5.97	129.03	115.30
1	7-C	1139	ASP	CB-CG-OD1	5.97	123.67	118.30
1	18-A	737	ASP	CB-CG-OD2	5.97	123.67	118.30
1	2-B	916	LEU	CB-CG-CD1	5.97	121.14	111.00
1	7-C	153	MET	CA-CB-CG	5.97	123.45	113.30
1	15-C	763	LEU	CB-CG-CD2	-5.97	100.86	111.00
1	17-B	981	LEU	CB-CG-CD2	5.97	121.14	111.00
1	8-C	585	LEU	CA-CB-CG	5.97	129.02	115.30
1	8-A	773	GLU	CA-CB-CG	5.96	126.52	113.40
1	16-A	981	LEU	CA-CB-CG	5.96	129.02	115.30
1	3-A	671	CYS	CA-CB-SG	5.96	124.73	114.00
1	2-A	117	LEU	CA-CB-CG	5.96	129.01	115.30
1	16-C	861	LEU	CA-CB-CG	5.96	129.01	115.30
1	12-A	959	LEU	CA-CB-CG	5.96	129.01	115.30
1	2-A	754	LEU	CA-CB-CG	5.95	128.99	115.30
1	8-A	727	LEU	CA-CB-CG	5.95	128.99	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	10-C	934	ILE	CG1-CB-CG2	-5.95	98.30	111.40
1	18-B	762	GLN	N-CA-CB	5.95	121.31	110.60
1	1-C	985	ASP	CB-CG-OD2	5.95	123.66	118.30
1	5-B	611	LEU	CD1-CG-CD2	-5.95	92.65	110.50
1	3-C	1005	GLN	CA-CB-CG	5.95	126.49	113.40
1	8-B	141	LEU	CA-CB-CG	5.95	128.98	115.30
1	8-C	753	LEU	CA-CB-CG	5.95	128.98	115.30
1	12-B	117	LEU	CA-CB-CG	5.95	128.98	115.30
1	14-B	755	GLN	N-CA-CB	-5.95	99.89	110.60
1	10-C	586	ASP	CB-CG-OD2	5.95	123.65	118.30
1	11-B	390	LEU	CA-CB-CG	5.95	128.97	115.30
1	14-B	298	GLU	CA-CB-CG	5.95	126.48	113.40
1	15-A	990	GLU	CA-CB-CG	5.95	126.48	113.40
1	18-C	533	LEU	CA-CB-CG	5.95	128.98	115.30
1	13-A	271	GLN	CA-CB-CG	5.94	126.48	113.40
1	20-C	414	GLN	CA-CB-CG	5.94	126.48	113.40
1	8-C	806	LEU	CA-CB-CG	5.94	128.97	115.30
1	9-B	985	ASP	CB-CA-C	5.94	122.29	110.40
1	17-A	962	LEU	CA-CB-CG	5.94	128.97	115.30
1	14-B	776	LYS	CA-CB-CG	5.94	126.47	113.40
1	4-B	129	LYS	CB-CG-CD	5.94	127.04	111.60
1	17-C	938	LEU	CA-CB-CG	5.94	128.95	115.30
1	19-C	86	PHE	CB-CG-CD1	5.93	124.95	120.80
1	20-B	293	LEU	CB-CG-CD2	5.93	121.09	111.00
1	16-B	152	TRP	CB-CG-CD2	5.93	134.31	126.60
1	18-A	878	LEU	CA-CB-CG	5.92	128.93	115.30
1	15-B	48	LEU	CA-CB-CG	5.92	128.92	115.30
1	15-C	752	LEU	CA-CB-CG	5.92	128.91	115.30
1	3-C	223	LEU	CA-CB-CG	5.92	128.91	115.30
1	8-B	898	PHE	CB-CG-CD2	-5.92	116.66	120.80
1	12-A	675	GLN	CA-CB-CG	5.92	126.41	113.40
1	7-A	1012	LEU	CB-CG-CD2	5.91	121.05	111.00
1	14-B	40	ASP	CB-CA-C	5.91	122.23	110.40
1	14-C	303	LEU	CA-CB-CG	5.91	128.90	115.30
1	9-A	765	ARG	CB-CA-C	5.91	122.22	110.40
1	17-C	319	ARG	CG-CD-NE	5.91	124.21	111.80
1	18-A	770	ILE	CG1-CB-CG2	-5.91	98.40	111.40
1	6-C	806	LEU	CA-CB-CG	5.91	128.88	115.30
1	13-B	964	LYS	CB-CA-C	-5.91	98.59	110.40
1	11-A	938	LEU	CB-CG-CD2	5.90	121.03	111.00
1	16-A	877	LEU	CB-CG-CD2	5.90	121.03	111.00
1	15-B	296	LEU	CA-CB-CG	5.89	128.86	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	13-A	954	GLN	CA-CB-CG	5.89	126.36	113.40
1	16-A	671	CYS	CA-CB-SG	5.89	124.61	114.00
1	19-C	996	LEU	CB-CG-CD2	5.89	121.01	111.00
1	11-B	40	ASP	CB-CG-OD1	5.89	123.60	118.30
1	8-B	1010	GLN	CA-CB-CG	5.89	126.35	113.40
1	20-A	773	GLU	CA-CB-CG	5.89	126.35	113.40
1	8-C	817	PHE	CB-CG-CD2	5.88	124.92	120.80
1	5-B	774	GLN	CA-CB-CG	5.88	126.34	113.40
1	5-B	922	LEU	CA-CB-CG	5.88	128.83	115.30
1	17-B	1024	LEU	CA-CB-CG	5.88	128.83	115.30
1	15-B	822	LEU	CA-CB-CG	5.88	128.81	115.30
1	11-C	737	ASP	CB-CG-OD1	5.87	123.59	118.30
1	12-C	755	GLN	CA-CB-CG	5.87	126.32	113.40
1	16-A	877	LEU	CA-CB-CG	5.87	128.81	115.30
1	10-A	1092	GLU	CA-CB-CG	5.87	126.31	113.40
1	4-A	877	LEU	CB-CG-CD2	5.87	120.97	111.00
1	7-C	977	LEU	CA-CB-CG	5.87	128.79	115.30
1	15-A	966	LEU	CB-CG-CD1	-5.87	101.03	111.00
1	16-A	752	LEU	CA-CB-CG	5.87	128.79	115.30
1	1-B	177	MET	CA-CB-CG	5.86	123.27	113.30
1	8-B	359	SER	C-N-CA	5.86	136.36	121.70
1	13-A	198	ASP	CB-CG-OD1	5.86	123.58	118.30
1	17-B	55	PHE	CB-CG-CD2	5.86	124.90	120.80
1	16-A	878	LEU	CA-CB-CG	5.86	128.78	115.30
1	1-A	675	GLN	CB-CA-C	5.86	122.11	110.40
1	12-A	878	LEU	CB-CG-CD2	5.86	120.96	111.00
1	17-B	966	LEU	CA-CB-CG	5.86	128.77	115.30
1	6-B	590	CYS	CA-CB-SG	5.86	124.54	114.00
1	15-B	611	LEU	CA-CB-CG	5.85	128.75	115.30
1	4-B	214	ARG	CA-CB-CG	5.85	126.26	113.40
1	8-B	552	LEU	CA-CB-CG	5.85	128.75	115.30
1	16-A	1029	MET	CB-CG-SD	5.85	129.94	112.40
1	19-A	1018	ILE	CG1-CB-CG2	-5.85	98.54	111.40
1	15-C	996	LEU	CA-CB-CG	5.84	128.74	115.30
1	16-C	922	LEU	CA-CB-CG	5.84	128.74	115.30
1	19-C	55	PHE	CB-CG-CD1	5.84	124.89	120.80
1	1-C	767	LEU	CB-CG-CD2	5.84	120.93	111.00
1	17-B	574	ASP	CB-CG-OD2	5.84	123.56	118.30
1	5-B	959	LEU	CB-CG-CD2	5.84	120.92	111.00
1	9-A	1029	MET	CB-CG-SD	5.83	129.89	112.40
1	11-C	993	ILE	CG1-CB-CG2	-5.83	98.57	111.40
1	9-C	223	LEU	C-N-CA	5.83	136.27	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	16-B	298	GLU	CA-CB-CG	5.83	126.22	113.40
1	12-C	1139	ASP	CB-CG-OD2	5.83	123.54	118.30
1	4-C	86	PHE	CB-CG-CD1	5.83	124.88	120.80
1	14-A	902	MET	CB-CG-SD	5.82	129.86	112.40
1	13-C	585	LEU	CA-CB-CG	5.82	128.68	115.30
1	14-B	117	LEU	CA-CB-CG	5.82	128.68	115.30
1	14-B	822	LEU	CA-CB-CG	5.82	128.68	115.30
1	10-B	228	ASP	CB-CG-OD1	5.81	123.53	118.30
1	6-C	994	ASP	CB-CG-OD2	-5.81	113.07	118.30
1	16-A	762	GLN	CA-CB-CG	5.81	126.18	113.40
1	4-B	53	ASP	CB-CA-C	5.81	122.02	110.40
1	11-C	671	CYS	CA-CB-SG	5.81	124.45	114.00
1	11-A	568	ASP	CB-CG-OD1	5.80	123.52	118.30
1	15-B	776	LYS	CA-CB-CG	5.80	126.17	113.40
1	16-A	1012	LEU	CA-CB-CG	5.80	128.65	115.30
1	13-B	296	LEU	CA-CB-CG	5.80	128.64	115.30
1	1-A	822	LEU	CA-CB-CG	5.79	128.62	115.30
1	15-C	1041	ASP	CB-CG-OD1	5.79	123.51	118.30
1	7-A	770	ILE	CG1-CB-CG2	-5.79	98.66	111.40
1	13-C	754	LEU	CB-CG-CD2	5.79	120.85	111.00
1	18-A	869	MET	CG-SD-CE	-5.79	90.93	100.20
1	14-C	223	LEU	CB-CG-CD2	5.79	120.84	111.00
1	16-A	776	LYS	CA-CB-CG	5.78	126.12	113.40
1	20-C	727	LEU	CA-CB-CG	5.78	128.60	115.30
1	2-A	780	GLU	CA-CB-CG	5.78	126.12	113.40
1	13-C	802	PHE	CB-CG-CD2	5.78	124.84	120.80
1	11-C	650	LEU	CA-CB-CG	5.77	128.58	115.30
1	4-A	1092	GLU	CA-CB-CG	5.77	126.10	113.40
1	12-A	755	GLN	CB-CA-C	5.77	121.94	110.40
1	1-B	1029	MET	CB-CG-SD	5.77	129.71	112.40
1	1-A	773	GLU	CA-CB-CG	5.77	126.09	113.40
1	9-B	762	GLN	N-CA-CB	5.77	120.98	110.60
1	12-C	773	GLU	CA-CB-CG	5.77	126.09	113.40
1	20-A	564	GLN	CA-CB-CG	5.77	126.08	113.40
1	6-C	948	LEU	CA-CB-CG	5.76	128.56	115.30
1	7-B	959	LEU	CB-CG-CD2	5.76	120.80	111.00
1	9-C	1050	MET	CG-SD-CE	-5.76	90.98	100.20
1	10-B	904	TYR	CB-CG-CD2	-5.76	117.54	121.00
1	10-B	938	LEU	CA-CB-CG	5.76	128.56	115.30
1	4-B	776	LYS	CA-CB-CG	5.76	126.08	113.40
1	19-C	328	ARG	NE-CZ-NH2	-5.76	117.42	120.30
1	13-B	270	LEU	CA-CB-CG	5.76	128.54	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3-A	738	CYS	CA-CB-SG	5.75	124.36	114.00
1	17-C	854	LYS	CA-CB-CG	5.75	126.06	113.40
1	12-C	934	ILE	CG1-CB-CG2	-5.75	98.74	111.40
1	13-A	1012	LEU	CB-CG-CD2	5.75	120.78	111.00
1	17-B	962	LEU	CB-CG-CD2	5.75	120.78	111.00
1	18-A	861	LEU	CA-CB-CG	5.75	128.52	115.30
1	3-C	954	GLN	CA-CB-CG	5.75	126.05	113.40
1	4-C	902	MET	CA-CB-CG	5.75	123.07	113.30
1	5-B	675	GLN	CB-CA-C	5.75	121.90	110.40
1	12-C	954	GLN	CA-CB-CG	5.75	126.05	113.40
1	16-C	293	LEU	CB-CG-CD2	5.75	120.77	111.00
1	14-B	1024	LEU	CA-CB-CG	5.75	128.52	115.30
1	8-A	1001	LEU	CB-CG-CD1	-5.75	101.23	111.00
1	2-A	945	LEU	CA-CB-CG	5.74	128.51	115.30
1	17-A	962	LEU	CB-CG-CD2	5.74	120.76	111.00
1	11-A	773	GLU	CA-CB-CG	5.74	126.03	113.40
1	8-B	118	LEU	CA-CB-CG	5.74	128.49	115.30
1	14-C	571	ASP	CB-CG-OD1	-5.74	113.14	118.30
1	4-B	767	LEU	CA-CB-CG	5.73	128.49	115.30
1	13-C	55	PHE	CB-CG-CD1	5.73	124.81	120.80
1	17-A	1024	LEU	CA-CB-CG	5.73	128.49	115.30
1	4-B	168	PHE	CB-CG-CD1	5.73	124.81	120.80
1	20-B	173	GLN	CA-CB-CG	5.73	126.01	113.40
1	10-A	962	LEU	CB-CG-CD2	5.73	120.74	111.00
1	1-C	194	PHE	CB-CG-CD1	5.73	124.81	120.80
1	2-C	675	GLN	CB-CA-C	5.72	121.85	110.40
1	12-C	650	LEU	CA-CB-CG	5.72	128.47	115.30
1	1-C	882	ILE	CG1-CB-CG2	-5.72	98.82	111.40
1	19-A	1019	ARG	CG-CD-NE	5.72	123.81	111.80
1	6-C	983	ARG	CA-CB-CG	5.72	125.98	113.40
1	13-C	877	LEU	CB-CG-CD2	5.72	120.72	111.00
1	14-C	1012	LEU	CB-CG-CD2	5.72	120.72	111.00
1	6-C	319	ARG	CG-CD-NE	5.71	123.80	111.80
1	11-A	767	LEU	CA-CB-CG	5.71	128.44	115.30
1	6-A	994	ASP	CB-CG-OD1	5.71	123.44	118.30
1	6-C	740	MET	CB-CG-SD	5.71	129.52	112.40
1	5-B	966	LEU	CA-CB-CG	5.70	128.42	115.30
1	18-A	582	LEU	CA-CB-CG	5.70	128.41	115.30
1	11-B	898	PHE	CB-CG-CD2	-5.70	116.81	120.80
1	3-A	964	LYS	CA-CB-CG	5.70	125.93	113.40
1	9-C	865	LEU	CA-CB-CG	5.70	128.40	115.30
1	11-C	877	LEU	CA-CB-CG	5.69	128.40	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14-C	861	LEU	CA-CB-CG	5.69	128.39	115.30
1	16-A	675	GLN	CA-CB-CG	5.69	125.93	113.40
1	17-A	319	ARG	CG-CD-NE	5.69	123.75	111.80
1	17-B	765	ARG	CG-CD-NE	5.69	123.75	111.80
1	4-C	878	LEU	CB-CG-CD2	5.69	120.67	111.00
1	9-A	270	LEU	CA-CB-CG	5.69	128.38	115.30
1	20-C	586	ASP	CB-CG-OD1	5.69	123.42	118.30
1	15-A	194	PHE	CB-CG-CD2	-5.69	116.82	120.80
1	3-A	568	ASP	CB-CG-OD1	5.68	123.42	118.30
1	12-B	776	LYS	CA-CB-CG	5.68	125.91	113.40
1	17-A	741	TYR	CB-CG-CD1	5.68	124.41	121.00
1	2-A	226	LEU	CB-CG-CD2	5.68	120.66	111.00
1	11-B	725	GLU	N-CA-C	-5.68	95.67	111.00
1	3-A	727	LEU	CB-CG-CD2	-5.67	101.36	111.00
1	10-C	767	LEU	CA-CB-CG	5.67	128.35	115.30
1	7-B	118	LEU	CA-CB-CG	5.67	128.35	115.30
1	9-C	751	ASN	N-CA-CB	5.67	120.81	110.60
1	10-B	537	LYS	CB-CG-CD	5.67	126.34	111.60
1	17-B	611	LEU	CA-CB-CG	5.67	128.34	115.30
1	19-B	1007	TYR	CB-CG-CD1	5.67	124.40	121.00
1	7-A	293	LEU	CA-CB-CG	5.67	128.34	115.30
1	5-B	954	GLN	CA-CB-CG	5.67	125.87	113.40
1	6-A	53	ASP	CB-CG-OD1	5.67	123.40	118.30
1	14-B	916	LEU	CB-CG-CD1	-5.67	101.36	111.00
1	20-B	767	LEU	CB-CG-CD2	5.67	120.64	111.00
1	4-A	296	LEU	CA-CB-CG	5.67	128.33	115.30
1	19-A	877	LEU	CB-CG-CD2	5.66	120.63	111.00
1	19-B	765	ARG	CB-CG-CD	-5.66	96.87	111.60
1	19-C	1029	MET	CB-CG-SD	5.66	129.39	112.40
1	5-C	877	LEU	CB-CG-CD2	5.66	120.63	111.00
1	17-B	983	ARG	CG-CD-NE	5.66	123.69	111.80
1	15-A	781	VAL	CA-CB-CG1	5.66	119.39	110.90
1	16-A	1012	LEU	CB-CG-CD2	5.66	120.62	111.00
1	15-C	754	LEU	CA-CB-CG	5.66	128.31	115.30
1	4-B	985	ASP	CB-CA-C	5.66	121.71	110.40
1	4-B	117	LEU	CA-CB-CG	5.66	128.31	115.30
1	9-B	1017	GLU	CA-CB-CG	5.66	125.84	113.40
1	1-B	294	ASP	CB-CG-OD2	5.65	123.39	118.30
1	4-B	55	PHE	CB-CG-CD1	5.65	124.76	120.80
1	19-C	767	LEU	CB-CG-CD2	5.65	120.61	111.00
1	2-A	977	LEU	CB-CG-CD1	-5.65	101.39	111.00
1	3-A	763	LEU	CA-CB-CG	5.65	128.30	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	15-A	194	PHE	CB-CG-CD1	5.65	124.76	120.80
1	14-C	414	GLN	CB-CA-C	5.65	121.70	110.40
1	14-C	675	GLN	CB-CA-C	5.65	121.69	110.40
1	14-C	934	ILE	CG1-CB-CG2	-5.64	98.98	111.40
1	20-C	748	GLU	CA-CB-CG	5.64	125.82	113.40
1	1-B	740	MET	CA-CB-CG	5.64	122.89	113.30
1	8-A	984	LEU	CA-CB-CG	5.64	128.28	115.30
1	8-C	895	GLN	CA-CB-CG	5.64	125.81	113.40
1	14-A	966	LEU	CA-CB-CG	5.64	128.28	115.30
1	18-C	201	PHE	CB-CG-CD1	5.64	124.75	120.80
1	4-C	296	LEU	CA-CB-CG	5.64	128.27	115.30
1	10-B	1024	LEU	CA-CB-CG	5.64	128.27	115.30
1	14-B	699	LEU	CB-CG-CD2	-5.64	101.41	111.00
1	2-A	153	MET	CB-CG-SD	5.64	129.31	112.40
1	7-C	718	PHE	CB-CG-CD1	5.64	124.75	120.80
1	13-A	611	LEU	CB-CG-CD1	-5.64	101.42	111.00
1	3-C	953	ASN	N-CA-CB	5.63	120.74	110.60
1	18-A	781	VAL	CA-CB-CG1	5.63	119.35	110.90
1	1-A	984	LEU	CB-CG-CD1	-5.63	101.42	111.00
1	3-C	568	ASP	CB-CA-C	5.63	121.66	110.40
1	7-A	878	LEU	CB-CG-CD2	5.63	120.57	111.00
1	7-C	934	ILE	CG1-CB-CG2	-5.63	99.02	111.40
1	8-A	984	LEU	CB-CG-CD1	-5.63	101.43	111.00
1	3-A	773	GLU	CA-CB-CG	5.63	125.78	113.40
1	13-B	271	GLN	CA-CB-CG	5.63	125.78	113.40
1	19-C	1012	LEU	CB-CG-CD2	5.62	120.56	111.00
1	8-A	781	VAL	CA-CB-CG1	5.62	119.34	110.90
1	5-C	762	GLN	CA-CB-CG	5.62	125.77	113.40
1	9-B	786	LYS	CB-CG-CD	5.62	126.22	111.60
1	10-B	762	GLN	CA-CB-CG	5.62	125.77	113.40
1	20-B	223	LEU	CB-CG-CD1	5.62	120.56	111.00
1	1-A	822	LEU	CB-CG-CD2	5.62	120.55	111.00
1	3-A	1012	LEU	CB-CG-CD2	5.62	120.55	111.00
1	12-B	120	VAL	CG1-CB-CG2	-5.62	101.91	110.90
1	14-A	201	PHE	CB-CA-C	5.62	121.64	110.40
1	5-B	86	PHE	CB-CG-CD2	-5.61	116.87	120.80
1	8-A	117	LEU	CA-CB-CG	5.61	128.20	115.30
1	20-B	53	ASP	CB-CA-C	5.61	121.62	110.40
1	2-A	796	ASP	CB-CG-OD2	5.61	123.35	118.30
1	5-A	1024	LEU	CA-CB-CG	5.61	128.20	115.30
1	20-A	1050	MET	CB-CG-SD	-5.61	95.58	112.40
1	1-C	773	GLU	CA-CB-CG	5.61	125.73	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	20-C	934	ILE	CG1-CB-CG2	-5.60	99.07	111.40
1	4-C	773	GLU	CA-CB-CG	5.60	125.73	113.40
1	3-C	650	LEU	CA-CB-CG	5.60	128.18	115.30
1	5-B	675	GLN	CA-CB-CG	5.60	125.72	113.40
1	6-C	902	MET	CA-CB-CG	5.60	122.82	113.30
1	8-B	754	LEU	CA-CB-CG	5.60	128.18	115.30
1	11-B	964	LYS	CA-CB-CG	5.60	125.72	113.40
1	3-B	959	LEU	CB-CG-CD2	5.60	120.52	111.00
1	10-A	1024	LEU	CA-CB-CG	5.60	128.17	115.30
1	12-A	660	TYR	CA-CB-CG	5.60	124.04	113.40
1	17-B	53	ASP	CB-CA-C	5.60	121.59	110.40
1	6-C	770	ILE	CG1-CB-CG2	-5.60	99.09	111.40
1	11-A	878	LEU	CB-CG-CD2	5.60	120.51	111.00
1	6-B	755	GLN	N-CA-CB	-5.59	100.53	110.60
1	20-B	780	GLU	CA-CB-CG	5.59	125.70	113.40
1	8-B	822	LEU	CB-CG-CD2	5.59	120.50	111.00
1	3-C	773	GLU	CA-CB-CG	5.59	125.69	113.40
1	18-B	962	LEU	CB-CG-CD2	5.59	120.50	111.00
1	4-C	751	ASN	N-CA-CB	5.59	120.66	110.60
1	20-A	878	LEU	CA-CB-CG	5.59	128.15	115.30
1	3-A	737	ASP	CB-CG-OD1	5.58	123.33	118.30
1	12-B	822	LEU	CB-CG-CD2	5.58	120.49	111.00
1	17-A	118	LEU	CA-CB-CG	5.58	128.14	115.30
1	3-B	948	LEU	CA-CB-CG	5.58	128.14	115.30
1	12-A	993	ILE	CG1-CB-CG2	-5.58	99.12	111.40
1	20-C	1050	MET	CB-CA-C	-5.58	99.24	110.40
1	8-C	740	MET	CB-CG-SD	5.58	129.14	112.40
1	14-C	1092	GLU	CA-CB-CG	5.58	125.67	113.40
1	18-B	173	GLN	CA-CB-CG	5.58	125.67	113.40
1	12-A	822	LEU	CA-CB-CG	5.58	128.13	115.30
1	14-B	173	GLN	CA-CB-CG	5.58	125.67	113.40
1	6-B	1012	LEU	CA-CB-CG	5.58	128.12	115.30
1	8-B	117	LEU	CA-CB-CG	5.58	128.12	115.30
1	10-B	988	GLU	CA-CB-CG	5.58	125.67	113.40
1	11-B	731	MET	CG-SD-CE	5.58	109.12	100.20
1	14-A	1024	LEU	CA-CB-CG	5.58	128.12	115.30
1	13-C	767	LEU	CA-CB-CG	5.57	128.12	115.30
1	12-B	966	LEU	CA-CB-CG	5.57	128.12	115.30
1	19-B	985	ASP	CB-CG-OD2	5.57	123.31	118.30
1	5-B	697	MET	CA-CB-CG	5.57	122.77	113.30
1	9-A	900	MET	CB-CG-SD	5.57	129.11	112.40
1	10-A	671	CYS	CA-CB-SG	5.57	124.03	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9-C	1012	LEU	CB-CG-CD2	5.57	120.47	111.00
1	9-C	996	LEU	CA-CB-CG	5.56	128.09	115.30
1	15-A	1005	GLN	CA-CB-CG	5.56	125.63	113.40
1	3-A	1029	MET	CB-CG-SD	5.56	129.07	112.40
1	10-B	1012	LEU	CB-CG-CD2	5.56	120.45	111.00
1	15-C	990	GLU	CA-CB-CG	5.56	125.63	113.40
1	4-C	675	GLN	CB-CA-C	5.56	121.51	110.40
1	15-B	53	ASP	CB-CA-C	5.55	121.51	110.40
1	15-B	585	LEU	CA-CB-CG	5.55	128.08	115.30
1	8-B	902	MET	CA-CB-CG	5.55	122.74	113.30
1	13-B	1034	LEU	CB-CG-CD1	-5.55	101.56	111.00
1	11-B	861	LEU	CA-CB-CG	5.55	128.07	115.30
1	13-A	229	LEU	CA-CB-CG	5.55	128.06	115.30
1	10-C	40	ASP	CB-CA-C	5.55	121.50	110.40
1	7-A	671	CYS	CA-CB-SG	5.55	123.98	114.00
1	3-A	1063	LEU	CA-CB-CG	5.54	128.05	115.30
1	4-B	861	LEU	CA-CB-CG	5.54	128.05	115.30
1	20-A	878	LEU	CB-CG-CD2	5.54	120.42	111.00
1	3-A	727	LEU	CB-CG-CD1	5.54	120.42	111.00
1	19-C	296	LEU	CA-CB-CG	5.54	128.05	115.30
1	1-C	950	ASP	CB-CG-OD1	5.54	123.28	118.30
1	5-A	206	LYS	CA-CB-CG	5.54	125.59	113.40
1	13-A	969	ASN	CB-CA-C	5.54	121.48	110.40
1	15-A	916	LEU	CB-CG-CD2	5.54	120.42	111.00
1	9-B	767	LEU	CB-CG-CD2	5.54	120.41	111.00
1	1-B	223	LEU	C-N-CA	5.53	135.53	121.70
1	10-C	938	LEU	CB-CG-CD2	5.53	120.40	111.00
1	5-C	564	GLN	CA-CB-CG	5.53	125.56	113.40
1	7-B	1034	LEU	CA-CB-CG	5.53	128.01	115.30
1	20-C	1001	LEU	CA-CB-CG	5.53	128.01	115.30
1	1-A	663	ASP	CB-CG-OD2	5.53	123.27	118.30
1	9-A	170	TYR	CA-CB-CG	5.53	123.90	113.40
1	1-C	953	ASN	N-CA-CB	5.52	120.54	110.60
1	6-A	1017	GLU	CA-CB-CG	5.52	125.55	113.40
1	15-B	675	GLN	CB-CA-C	5.52	121.45	110.40
1	17-C	177	MET	N-CA-CB	5.52	120.54	110.60
1	12-B	898	PHE	CB-CG-CD1	5.52	124.67	120.80
1	14-C	895	GLN	CA-CB-CG	5.52	125.54	113.40
1	6-A	1029	MET	CB-CG-SD	5.52	128.95	112.40
1	19-B	611	LEU	CB-CG-CD2	5.52	120.38	111.00
1	6-B	878	LEU	CA-CB-CG	5.52	127.99	115.30
1	8-C	934	ILE	CG1-CB-CG2	-5.51	99.27	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	12-C	223	LEU	CB-CG-CD2	-5.51	101.63	111.00
1	17-B	898	PHE	CB-CG-CD2	-5.51	116.94	120.80
1	20-C	854	LYS	CA-CB-CG	5.51	125.53	113.40
1	10-A	558	LYS	CA-CB-CG	5.51	125.52	113.40
1	19-C	177	MET	CB-CG-SD	5.51	128.93	112.40
1	19-C	328	ARG	CA-CB-CG	5.51	125.52	113.40
1	4-A	877	LEU	CA-CB-CG	5.51	127.97	115.30
1	15-C	296	LEU	CA-CB-CG	5.51	127.97	115.30
1	17-B	959	LEU	CB-CG-CD2	5.51	120.36	111.00
1	15-C	663	ASP	CB-CG-OD1	-5.50	113.35	118.30
1	4-A	53	ASP	CB-CA-C	5.50	121.40	110.40
1	12-B	48	LEU	CA-CB-CG	5.50	127.95	115.30
1	19-B	916	LEU	CB-CG-CD1	5.50	120.35	111.00
1	11-B	959	LEU	CA-CB-CG	5.50	127.94	115.30
1	9-B	1050	MET	CA-CB-CG	5.50	122.64	113.30
1	15-B	767	LEU	CB-CG-CD2	5.49	120.34	111.00
1	11-A	1024	LEU	CA-CB-CG	5.49	127.93	115.30
1	2-C	1111	GLU	CA-CB-CG	5.49	125.47	113.40
1	3-B	865	LEU	CB-CG-CD2	5.49	120.33	111.00
1	6-A	877	LEU	CB-CG-CD2	5.49	120.33	111.00
1	10-B	428	ASP	CB-CG-OD2	-5.49	113.36	118.30
1	19-C	763	LEU	CB-CG-CD1	-5.49	101.67	111.00
1	10-B	981	LEU	CB-CG-CD2	5.49	120.33	111.00
1	7-A	767	LEU	CB-CG-CD2	5.48	120.32	111.00
1	17-C	53	ASP	CB-CG-OD1	5.48	123.23	118.30
1	1-C	675	GLN	CB-CA-C	5.48	121.36	110.40
1	11-C	1041	ASP	CB-CG-OD1	5.48	123.23	118.30
1	10-A	1012	LEU	CB-CG-CD2	5.48	120.31	111.00
1	10-C	140	PHE	CB-CG-CD1	5.48	124.64	120.80
1	2-C	1029	MET	CB-CG-SD	5.48	128.83	112.40
1	10-C	1024	LEU	CA-CB-CG	5.48	127.90	115.30
1	5-C	737	ASP	CB-CG-OD1	5.47	123.23	118.30
1	1-A	153	MET	CB-CG-SD	5.47	128.81	112.40
1	3-C	1111	GLU	CA-CB-CG	5.47	125.44	113.40
1	14-A	298	GLU	CA-CB-CG	5.47	125.44	113.40
1	20-C	675	GLN	CB-CA-C	5.47	121.34	110.40
1	15-C	191	GLU	CA-CB-CG	5.47	125.43	113.40
1	3-B	964	LYS	CA-CB-CG	5.47	125.43	113.40
1	12-C	993	ILE	CG1-CB-CG2	-5.47	99.38	111.40
1	18-C	902	MET	CA-CB-CG	5.47	122.59	113.30
1	5-B	611	LEU	CB-CG-CD1	5.46	120.29	111.00
1	20-B	675	GLN	CA-CB-CG	5.46	125.42	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6-A	697	MET	CB-CG-SD	5.46	128.79	112.40
1	6-B	755	GLN	CA-CB-CG	5.46	125.42	113.40
1	11-C	934	ILE	CG1-CB-CG2	-5.46	99.38	111.40
1	12-A	206	LYS	CA-CB-CG	5.46	125.42	113.40
1	5-B	780	GLU	CA-CB-CG	5.46	125.41	113.40
1	5-C	981	LEU	CA-CB-CG	5.46	127.86	115.30
1	14-B	552	LEU	CA-CB-CG	5.46	127.86	115.30
1	17-B	934	ILE	CG1-CB-CG2	-5.46	99.39	111.40
1	19-A	1050	MET	CB-CG-SD	-5.46	96.02	112.40
1	19-B	41	LYS	CB-CG-CD	5.46	125.79	111.60
1	20-A	1012	LEU	CB-CG-CD2	5.46	120.28	111.00
1	1-C	759	PHE	CB-CG-CD2	-5.46	116.98	120.80
1	9-A	865	LEU	CB-CG-CD1	-5.46	101.72	111.00
1	11-C	888	PHE	CB-CG-CD1	5.46	124.62	120.80
1	3-C	567	ARG	NE-CZ-NH1	5.46	123.03	120.30
1	3-A	898	PHE	CB-CG-CD1	5.45	124.62	120.80
1	8-B	675	GLN	CB-CA-C	5.45	121.31	110.40
1	12-A	303	LEU	CA-CB-CG	5.45	127.84	115.30
1	19-C	864	LEU	CA-CB-CG	5.45	127.84	115.30
1	14-B	763	LEU	CA-CB-CG	5.45	127.84	115.30
1	1-B	822	LEU	CB-CG-CD1	5.45	120.27	111.00
1	19-C	822	LEU	CA-CB-CG	5.45	127.83	115.30
1	16-A	985	ASP	CB-CG-OD2	5.45	123.20	118.30
1	13-C	1012	LEU	CB-CG-CD2	5.44	120.25	111.00
1	9-B	820	ASP	CB-CG-OD1	5.44	123.20	118.30
1	19-C	864	LEU	CB-CG-CD1	-5.44	101.75	111.00
1	5-A	727	LEU	CA-CB-CG	5.44	127.81	115.30
1	15-C	675	GLN	CB-CA-C	5.44	121.28	110.40
1	10-B	1111	GLU	CA-CB-CG	5.44	125.37	113.40
1	12-B	916	LEU	CB-CG-CD1	5.44	120.25	111.00
1	12-C	754	LEU	CA-CB-CG	5.44	127.81	115.30
1	19-B	954	GLN	CA-CB-CG	5.44	125.36	113.40
1	4-B	359	SER	C-N-CA	5.43	135.29	121.70
1	6-A	40	ASP	CB-CA-C	5.43	121.27	110.40
1	1-C	194	PHE	CB-CG-CD2	-5.43	117.00	120.80
1	9-B	822	LEU	CB-CG-CD2	5.43	120.23	111.00
1	7-A	55	PHE	CB-CG-CD2	5.43	124.60	120.80
1	8-A	985	ASP	CB-CA-C	5.43	121.26	110.40
1	15-C	752	LEU	CB-CG-CD2	5.43	120.23	111.00
1	4-A	781	VAL	CA-CB-CG1	5.43	119.04	110.90
1	11-B	740	MET	CG-SD-CE	-5.43	91.52	100.20
1	7-A	660	TYR	CA-CB-CG	5.43	123.71	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14-A	660	TYR	CA-CB-CG	5.43	123.71	113.40
1	3-B	806	LEU	CA-CB-CG	5.42	127.78	115.30
1	4-C	877	LEU	CA-CB-CG	5.42	127.78	115.30
1	9-C	90	VAL	CA-CB-CG1	5.42	119.04	110.90
1	20-A	134	GLN	CA-CB-CG	5.42	125.33	113.40
1	3-C	754	LEU	CA-CB-CG	5.42	127.77	115.30
1	10-C	762	GLN	CA-CB-CG	5.42	125.33	113.40
1	17-B	1017	GLU	CA-CB-CG	5.42	125.32	113.40
1	8-C	120	VAL	CG1-CB-CG2	-5.42	102.23	110.90
1	3-C	877	LEU	CA-CB-CG	5.42	127.76	115.30
1	6-A	762	GLN	CA-CB-CG	5.42	125.32	113.40
1	11-B	945	LEU	CA-CB-CG	5.42	127.75	115.30
1	6-B	994	ASP	CB-CG-OD2	-5.41	113.43	118.30
1	13-C	168	PHE	CB-CG-CD2	-5.41	117.01	120.80
1	17-B	755	GLN	CA-CB-CG	5.41	125.31	113.40
1	17-B	984	LEU	CA-CB-CG	5.41	127.75	115.30
1	18-B	276	LEU	CB-CG-CD2	5.41	120.20	111.00
1	18-B	773	GLU	CA-CB-CG	5.41	125.31	113.40
1	20-B	916	LEU	CB-CG-CD1	5.41	120.20	111.00
1	5-A	660	TYR	CA-CB-CG	5.41	123.68	113.40
1	7-A	938	LEU	CA-CB-CG	5.41	127.74	115.30
1	8-A	977	LEU	CB-CG-CD1	5.41	120.20	111.00
1	12-B	820	ASP	CB-CG-OD1	5.41	123.17	118.30
1	17-A	966	LEU	CA-CB-CG	5.41	127.74	115.30
1	19-B	962	LEU	CB-CG-CD1	5.41	120.20	111.00
1	1-B	53	ASP	CB-CA-C	5.41	121.22	110.40
1	19-B	938	LEU	CB-CG-CD2	5.41	120.19	111.00
1	3-B	969	ASN	CB-CA-C	5.41	121.21	110.40
1	1-C	993	ILE	CG1-CB-CG2	-5.40	99.51	111.40
1	9-A	1005	GLN	CA-CB-CG	-5.40	101.51	113.40
1	13-C	52	GLN	CA-CB-CG	5.40	125.29	113.40
1	15-A	276	LEU	CA-CB-CG	5.40	127.72	115.30
1	16-C	1029	MET	CB-CG-SD	5.40	128.60	112.40
1	6-C	983	ARG	CB-CG-CD	5.40	125.64	111.60
1	4-A	959	LEU	CA-CB-CG	5.40	127.72	115.30
1	18-A	727	LEU	CB-CG-CD1	5.40	120.18	111.00
1	5-C	877	LEU	CB-CG-CD1	-5.39	101.83	111.00
1	6-B	878	LEU	CB-CG-CD1	-5.39	101.83	111.00
1	18-B	1024	LEU	CA-CB-CG	5.39	127.71	115.30
1	14-C	1018	ILE	CG1-CB-CG2	-5.39	99.54	111.40
1	1-B	780	GLU	CA-CB-CG	5.39	125.26	113.40
1	7-A	53	ASP	CB-CA-C	5.39	121.18	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8-A	870	ILE	CG1-CB-CG2	-5.39	99.54	111.40
1	18-A	298	GLU	CA-CB-CG	5.39	125.26	113.40
1	2-A	902	MET	CA-CB-CG	5.39	122.46	113.30
1	5-A	916	LEU	CB-CG-CD1	-5.39	101.84	111.00
1	7-C	298	GLU	CA-CB-CG	5.38	125.25	113.40
1	1-B	922	LEU	CA-CB-CG	5.38	127.68	115.30
1	9-B	985	ASP	CB-CG-OD1	-5.38	113.45	118.30
1	8-B	53	ASP	CB-CA-C	5.38	121.16	110.40
1	19-B	979	ASP	CB-CG-OD1	5.38	123.14	118.30
1	2-A	660	TYR	CA-CB-CG	5.38	123.62	113.40
1	7-B	957	GLN	CA-CB-CG	5.38	125.23	113.40
1	2-B	861	LEU	CA-CB-CG	5.38	127.67	115.30
1	6-C	650	LEU	CA-CB-CG	5.38	127.67	115.30
1	18-A	938	LEU	CB-CG-CD2	5.38	120.14	111.00
1	14-C	1024	LEU	CA-CB-CG	5.38	127.66	115.30
1	12-C	731	MET	CA-CB-CG	5.37	122.44	113.30
1	15-C	563	GLN	CA-CB-CG	-5.37	101.58	113.40
1	12-A	671	CYS	CA-CB-SG	5.37	123.67	114.00
1	15-B	996	LEU	CA-CB-CG	5.37	127.65	115.30
1	17-A	1018	ILE	CG1-CB-CG2	-5.37	99.58	111.40
1	19-C	780	GLU	N-CA-CB	5.37	120.27	110.60
1	19-C	902	MET	CA-CB-CG	5.37	122.43	113.30
1	3-B	168	PHE	CB-CG-CD2	5.37	124.56	120.80
1	2-C	117	LEU	CB-CG-CD2	-5.37	101.88	111.00
1	6-A	878	LEU	CB-CG-CD2	5.37	120.13	111.00
1	17-B	1031	GLU	CA-CB-CG	5.37	125.21	113.40
1	8-B	54	LEU	CA-CB-CG	5.37	127.64	115.30
1	10-A	40	ASP	CB-CA-C	5.37	121.13	110.40
1	2-B	765	ARG	CA-CB-CG	5.36	125.20	113.40
1	2-C	1092	GLU	CA-CB-CG	5.36	125.20	113.40
1	4-A	576	VAL	CG1-CB-CG2	-5.36	102.32	110.90
1	13-A	938	LEU	CB-CG-CD2	5.36	120.12	111.00
1	14-A	568	ASP	CB-CA-C	5.36	121.13	110.40
1	16-A	938	LEU	CA-CB-CG	5.36	127.64	115.30
1	20-A	755	GLN	CA-CB-CG	5.36	125.19	113.40
1	15-B	895	GLN	CA-CB-CG	5.36	125.19	113.40
1	3-B	53	ASP	CB-CA-C	5.36	121.11	110.40
1	17-C	877	LEU	CB-CG-CD2	5.36	120.11	111.00
1	6-B	675	GLN	CB-CA-C	5.36	121.11	110.40
1	13-B	790	LYS	CD-CE-NZ	-5.36	99.38	111.70
1	8-A	934	ILE	CG1-CB-CG2	-5.35	99.63	111.40
1	13-A	1050	MET	CA-CB-CG	5.35	122.39	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	18-B	898	PHE	CB-CG-CD1	5.35	124.55	120.80
1	13-B	969	ASN	N-CA-CB	-5.35	100.98	110.60
1	19-C	985	ASP	CB-CA-C	5.35	121.10	110.40
1	20-A	287	ASP	CB-CG-OD1	5.35	123.11	118.30
1	4-B	938	LEU	CA-CB-CG	5.34	127.59	115.30
1	16-A	675	GLN	CB-CA-C	5.34	121.09	110.40
1	8-B	776	LYS	CA-CB-CG	5.34	125.15	113.40
1	8-B	916	LEU	CB-CG-CD1	5.34	120.08	111.00
1	8-C	894	LEU	CA-CB-CG	5.34	127.58	115.30
1	9-A	1034	LEU	CA-CB-CG	5.34	127.58	115.30
1	14-B	611	LEU	CA-CB-CG	5.34	127.58	115.30
1	4-B	40	ASP	CB-CA-C	5.34	121.08	110.40
1	18-A	1012	LEU	CB-CG-CD2	5.34	120.07	111.00
1	6-C	303	LEU	CA-CB-CG	5.34	127.58	115.30
1	12-A	1012	LEU	CB-CG-CD2	5.34	120.07	111.00
1	18-B	1111	GLU	CA-CB-CG	5.34	125.14	113.40
1	1-C	895	GLN	CA-CB-CG	5.33	125.14	113.40
1	10-A	916	LEU	CA-CB-CG	5.33	127.57	115.30
1	4-A	727	LEU	CA-CB-CG	5.33	127.56	115.30
1	4-A	671	CYS	CA-CB-SG	5.33	123.59	114.00
1	13-B	760	CYS	CA-CB-SG	-5.33	104.41	114.00
1	9-C	904	TYR	CB-CG-CD1	-5.33	117.80	121.00
1	11-B	1012	LEU	CA-CB-CG	5.33	127.56	115.30
1	12-C	1029	MET	CB-CG-SD	5.33	128.39	112.40
1	20-C	1010	GLN	CA-CB-CG	5.33	125.11	113.40
1	7-B	301	CYS	CA-CB-SG	5.32	123.58	114.00
1	12-A	1017	GLU	CA-CB-CG	5.32	125.11	113.40
1	18-B	1012	LEU	CA-CB-CG	5.32	127.54	115.30
1	8-B	895	GLN	CA-CB-CG	5.32	125.11	113.40
1	18-A	729	VAL	CA-CB-CG1	5.32	118.88	110.90
1	19-C	977	LEU	CA-CB-CG	5.32	127.54	115.30
1	2-A	959	LEU	CA-CB-CG	5.32	127.53	115.30
1	3-C	671	CYS	CA-CB-SG	5.32	123.57	114.00
1	6-B	959	LEU	CB-CG-CD2	5.32	120.04	111.00
1	19-C	904	TYR	CA-CB-CG	5.32	123.50	113.40
1	15-C	729	VAL	CA-CB-CG2	5.31	118.87	110.90
1	17-C	770	ILE	CG1-CB-CG2	-5.31	99.71	111.40
1	18-B	869	MET	CG-SD-CE	-5.31	91.70	100.20
1	7-A	727	LEU	CA-CB-CG	5.31	127.52	115.30
1	14-B	304	LYS	CB-CG-CD	5.31	125.41	111.60
1	7-B	392	PHE	CB-CG-CD1	5.31	124.52	120.80
1	11-B	865	LEU	CA-CB-CG	5.31	127.52	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	12-B	962	LEU	CB-CG-CD2	5.31	120.03	111.00
1	2-A	962	LEU	CB-CG-CD2	5.31	120.03	111.00
1	13-A	1024	LEU	CA-CB-CG	5.31	127.51	115.30
1	1-B	118	LEU	CA-CB-CG	5.31	127.51	115.30
1	6-A	864	LEU	CA-CB-CG	5.31	127.51	115.30
1	6-C	745	ASP	CB-CG-OD2	-5.31	113.52	118.30
1	12-C	740	MET	CA-CB-CG	5.31	122.32	113.30
1	16-B	996	LEU	CA-CB-CG	5.31	127.51	115.30
1	2-C	194	PHE	CB-CG-CD1	5.31	124.51	120.80
1	14-B	1012	LEU	CB-CG-CD2	5.31	120.02	111.00
1	19-B	861	LEU	CA-CB-CG	5.31	127.50	115.30
1	20-C	759	PHE	CB-CG-CD2	5.31	124.51	120.80
1	8-C	241	LEU	CA-CB-CG	5.30	127.50	115.30
1	13-B	41	LYS	CB-CG-CD	5.30	125.39	111.60
1	15-A	1001	LEU	CA-CB-CG	5.30	127.50	115.30
1	13-B	53	ASP	CB-CA-C	5.30	121.01	110.40
1	8-B	938	LEU	CA-CB-CG	5.30	127.49	115.30
1	19-B	177	MET	CG-SD-CE	-5.30	91.72	100.20
1	13-A	900	MET	CB-CG-SD	5.30	128.29	112.40
1	17-A	727	LEU	CB-CG-CD1	5.30	120.00	111.00
1	3-A	934	ILE	CG1-CB-CG2	-5.29	99.75	111.40
1	17-B	985	ASP	CB-CG-OD1	5.29	123.07	118.30
1	3-C	564	GLN	CA-CB-CG	5.29	125.05	113.40
1	13-B	173	GLN	CA-CB-CG	5.29	125.05	113.40
1	15-C	277	LEU	CA-CB-CG	5.29	127.47	115.30
1	2-B	55	PHE	CB-CG-CD2	5.29	124.50	120.80
1	7-C	40	ASP	CB-CA-C	5.29	120.98	110.40
1	7-C	1012	LEU	CB-CG-CD2	5.29	120.00	111.00
1	8-A	671	CYS	CA-CB-SG	5.29	123.52	114.00
1	12-B	1017	GLU	CA-CB-CG	5.29	125.04	113.40
1	17-B	985	ASP	CB-CA-C	5.29	120.98	110.40
1	20-B	861	LEU	CA-CB-CG	5.29	127.47	115.30
1	16-B	822	LEU	CA-CB-CG	5.29	127.46	115.30
1	3-B	198	ASP	CB-CG-OD1	5.29	123.06	118.30
1	9-A	1019	ARG	CG-CD-NE	5.29	122.90	111.80
1	10-B	1029	MET	CB-CG-SD	5.29	128.26	112.40
1	16-C	882	ILE	CG1-CB-CG2	-5.29	99.77	111.40
1	1-A	229	LEU	CA-CB-CG	5.28	127.45	115.30
1	7-B	359	SER	C-N-CA	5.28	134.91	121.70
1	9-C	1029	MET	CB-CG-SD	5.28	128.25	112.40
1	12-C	765	ARG	CA-CB-CG	5.28	125.02	113.40
1	13-B	934	ILE	CG1-CB-CG2	-5.28	99.78	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14-B	990	GLU	CA-CB-CG	5.28	125.02	113.40
1	16-B	152	TRP	CB-CG-CD1	-5.28	120.13	127.00
1	19-B	141	LEU	CA-CB-CG	5.28	127.44	115.30
1	20-A	1002	GLN	CA-CB-CG	5.28	125.02	113.40
1	4-B	916	LEU	CB-CG-CD1	-5.28	102.03	111.00
1	15-C	822	LEU	CA-CB-CG	5.28	127.44	115.30
1	4-C	822	LEU	CB-CG-CD2	5.28	119.97	111.00
1	16-C	945	LEU	CA-CB-CG	5.28	127.44	115.30
1	2-C	895	GLN	CA-CB-CG	5.28	125.01	113.40
1	9-B	894	LEU	CA-CB-CG	5.28	127.43	115.30
1	16-C	1041	ASP	CB-CG-OD1	5.28	123.05	118.30
1	17-B	983	ARG	CA-CB-CG	5.28	125.01	113.40
1	17-A	1111	GLU	CA-CB-CG	5.27	125.00	113.40
1	20-A	776	LYS	CA-CB-CG	5.27	125.00	113.40
1	3-C	567	ARG	CG-CD-NE	5.27	122.87	111.80
1	13-B	964	LYS	CA-CB-CG	5.27	125.00	113.40
1	20-A	861	LEU	CA-CB-CG	5.27	127.43	115.30
1	4-C	740	MET	CB-CG-SD	-5.27	96.59	112.40
1	13-C	1007	TYR	CB-CG-CD1	5.27	124.16	121.00
1	16-A	568	ASP	CB-CA-C	5.27	120.93	110.40
1	13-B	916	LEU	CB-CG-CD1	5.26	119.95	111.00
1	13-C	767	LEU	CB-CG-CD2	5.26	119.95	111.00
1	13-C	934	ILE	CG1-CB-CG2	-5.26	99.82	111.40
1	17-C	84	LEU	CA-CB-CG	5.26	127.41	115.30
1	5-C	877	LEU	CA-CB-CG	5.26	127.40	115.30
1	13-C	1092	GLU	CA-CB-CG	5.26	124.97	113.40
1	5-B	697	MET	CB-CG-SD	5.26	128.18	112.40
1	8-A	962	LEU	CB-CG-CD2	5.26	119.94	111.00
1	15-B	168	PHE	CB-CG-CD1	5.26	124.48	120.80
1	10-A	229	LEU	CA-CB-CG	5.26	127.39	115.30
1	11-A	959	LEU	CA-CB-CG	5.26	127.39	115.30
1	18-A	194	PHE	CB-CG-CD2	5.26	124.48	120.80
1	18-B	765	ARG	N-CA-CB	5.26	120.06	110.60
1	4-C	985	ASP	CB-CG-OD2	5.25	123.03	118.30
1	8-B	408	ARG	CB-CG-CD	5.25	125.26	111.60
1	12-A	117	LEU	CA-CB-CG	5.25	127.38	115.30
1	3-A	571	ASP	CB-CG-OD1	5.25	123.03	118.30
1	11-A	740	MET	CG-SD-CE	5.25	108.60	100.20
1	13-C	90	VAL	CA-CB-CG1	5.25	118.78	110.90
1	4-A	966	LEU	CA-CB-CG	5.25	127.37	115.30
1	15-C	865	LEU	CA-CB-CG	5.25	127.37	115.30
1	20-A	962	LEU	CB-CG-CD2	5.25	119.92	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3-C	293	LEU	CA-CB-CG	5.25	127.37	115.30
1	11-B	173	GLN	CA-CB-CG	5.25	124.94	113.40
1	13-A	1050	MET	N-CA-CB	5.25	120.05	110.60
1	16-B	58	PHE	CB-CG-CD1	5.25	124.47	120.80
1	17-A	731	MET	CA-CB-CG	5.25	122.22	113.30
1	20-C	1034	LEU	CA-CB-CG	5.25	127.37	115.30
1	5-C	762	GLN	N-CA-CB	5.25	120.04	110.60
1	13-C	1007	TYR	CA-CB-CG	5.25	123.37	113.40
1	18-A	568	ASP	CB-CG-OD1	5.25	123.02	118.30
1	19-A	742	ILE	CA-CB-CG2	5.25	121.39	110.90
1	15-C	864	LEU	CB-CG-CD2	5.24	119.91	111.00
1	17-B	864	LEU	CA-CB-CG	5.24	127.36	115.30
1	3-B	304	LYS	CB-CG-CD	5.24	125.23	111.60
1	4-B	959	LEU	CB-CG-CD2	5.24	119.91	111.00
1	3-A	1092	GLU	CA-CB-CG	5.24	124.93	113.40
1	9-A	1050	MET	CB-CA-C	-5.24	99.92	110.40
1	19-A	53	ASP	CB-CA-C	5.24	120.88	110.40
1	9-A	117	LEU	CA-CB-CG	5.24	127.34	115.30
1	9-B	762	GLN	CA-CB-CG	5.24	124.92	113.40
1	11-A	88	ASP	CB-CG-OD1	-5.23	113.59	118.30
1	13-B	1107	ARG	CB-CA-C	-5.23	99.94	110.40
1	18-C	877	LEU	CB-CG-CD2	5.23	119.90	111.00
1	8-B	611	LEU	CB-CG-CD1	-5.23	102.11	111.00
1	8-C	945	LEU	CA-CB-CG	5.23	127.33	115.30
1	17-C	767	LEU	CB-CG-CD2	5.23	119.89	111.00
1	10-A	900	MET	CG-SD-CE	-5.23	91.84	100.20
1	15-C	979	ASP	CB-CG-OD1	5.23	123.01	118.30
1	20-A	303	LEU	CA-CB-CG	5.23	127.32	115.30
1	8-B	298	GLU	CA-CB-CG	5.23	124.90	113.40
1	9-A	1012	LEU	CA-CB-CG	5.23	127.32	115.30
1	13-A	954	GLN	N-CA-CB	5.23	120.01	110.60
1	13-B	754	LEU	CA-CB-CG	5.23	127.32	115.30
1	7-C	214	ARG	CA-CB-CG	5.22	124.88	113.40
1	11-C	53	ASP	CB-CG-OD1	5.22	123.00	118.30
1	17-C	948	LEU	CA-CB-CG	5.22	127.31	115.30
1	1-C	1050	MET	CG-SD-CE	-5.22	91.85	100.20
1	5-A	945	LEU	CA-CB-CG	5.22	127.30	115.30
1	5-C	585	LEU	CA-CB-CG	5.22	127.30	115.30
1	17-B	359	SER	C-N-CA	5.22	134.74	121.70
1	3-C	153	MET	CB-CG-SD	5.21	128.04	112.40
1	4-B	169	GLU	CA-CB-CG	5.21	124.87	113.40
1	18-A	822	LEU	CB-CG-CD1	-5.21	102.14	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2-A	905	ARG	CG-CD-NE	5.21	122.74	111.80
1	4-C	54	LEU	CA-CB-CG	5.21	127.29	115.30
1	15-B	1012	LEU	CB-CG-CD2	5.21	119.86	111.00
1	20-C	966	LEU	CB-CG-CD2	5.21	119.86	111.00
1	15-A	1024	LEU	CB-CG-CD2	5.21	119.85	111.00
1	19-C	53	ASP	CB-CG-OD2	5.21	122.99	118.30
1	3-A	755	GLN	N-CA-CB	-5.21	101.23	110.60
1	4-B	58	PHE	CB-CG-CD1	5.21	124.44	120.80
1	10-B	52	GLN	CA-CB-CG	5.21	124.86	113.40
1	18-B	938	LEU	CB-CG-CD2	5.21	119.85	111.00
1	15-C	762	GLN	CA-CB-CG	5.21	124.85	113.40
1	4-A	223	LEU	CA-CB-CG	5.20	127.27	115.30
1	6-A	611	LEU	CB-CG-CD1	-5.20	102.15	111.00
1	13-B	948	LEU	CA-CB-CG	5.20	127.27	115.30
1	18-B	754	LEU	CA-CB-CG	5.20	127.27	115.30
1	4-B	898	PHE	CB-CG-CD2	-5.20	117.16	120.80
1	14-A	755	GLN	CA-CB-CG	5.20	124.84	113.40
1	14-B	1004	LEU	CA-CB-CG	5.20	127.26	115.30
1	11-A	290	ASP	CB-CG-OD2	5.20	122.98	118.30
1	13-A	671	CYS	CA-CB-SG	5.20	123.35	114.00
1	18-C	759	PHE	CB-CG-CD2	-5.19	117.16	120.80
1	20-B	650	LEU	CA-CB-CG	5.19	127.25	115.30
1	2-A	201	PHE	CB-CG-CD2	5.19	124.44	120.80
1	6-B	513	LEU	CA-CB-CG	5.19	127.24	115.30
1	7-C	865	LEU	CA-CB-CG	5.19	127.24	115.30
1	13-B	938	LEU	CA-CB-CG	5.19	127.24	115.30
1	2-C	90	VAL	CA-CB-CG1	5.19	118.69	110.90
1	11-A	1063	LEU	CA-CB-CG	5.19	127.24	115.30
1	19-C	90	VAL	CA-CB-CG1	5.19	118.68	110.90
1	2-A	153	MET	N-CA-CB	5.19	119.94	110.60
1	8-B	189	LEU	CB-CG-CD2	-5.19	102.18	111.00
1	15-A	786	LYS	CA-CB-CG	5.19	124.81	113.40
1	17-A	864	LEU	CA-CB-CG	5.18	127.22	115.30
1	3-C	964	LYS	CA-CB-CG	5.18	124.80	113.40
1	18-A	1024	LEU	CA-CB-CG	5.18	127.22	115.30
1	19-B	229	LEU	CA-CB-CG	5.18	127.22	115.30
1	19-B	1092	GLU	CA-CB-CG	5.18	124.80	113.40
1	1-B	945	LEU	CA-CB-CG	5.18	127.21	115.30
1	2-A	201	PHE	CB-CG-CD1	-5.18	117.17	120.80
1	2-C	864	LEU	CB-CG-CD2	5.18	119.80	111.00
1	15-A	822	LEU	CB-CG-CD2	5.18	119.80	111.00
1	14-B	359	SER	C-N-CA	5.18	134.64	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14-B	754	LEU	CA-CB-CG	5.18	127.21	115.30
1	11-C	877	LEU	CB-CG-CD2	5.17	119.80	111.00
1	16-C	767	LEU	CB-CG-CD2	5.17	119.80	111.00
1	20-A	53	ASP	CB-CA-C	5.17	120.75	110.40
1	11-B	767	LEU	CB-CG-CD2	5.17	119.79	111.00
1	5-C	1111	GLU	CA-CB-CG	5.17	124.77	113.40
1	20-C	153	MET	CB-CG-SD	5.17	127.91	112.40
1	1-B	1010	GLN	CA-CB-CG	5.17	124.77	113.40
1	8-A	731	MET	CA-CB-CG	5.17	122.09	113.30
1	15-B	515	PHE	CB-CG-CD2	5.17	124.42	120.80
1	19-A	675	GLN	CB-CA-C	5.17	120.73	110.40
1	13-A	194	PHE	CB-CG-CD2	-5.17	117.18	120.80
1	5-C	271	GLN	CA-CB-CG	5.17	124.76	113.40
1	18-C	650	LEU	CA-CB-CG	5.17	127.18	115.30
1	5-C	660	TYR	CA-CB-CG	5.16	123.21	113.40
1	7-C	877	LEU	CB-CG-CD2	5.16	119.78	111.00
1	8-C	865	LEU	CA-CB-CG	5.16	127.17	115.30
1	15-C	303	LEU	CA-CB-CG	5.16	127.17	115.30
1	1-A	878	LEU	CB-CG-CD2	5.16	119.77	111.00
1	16-B	287	ASP	CB-CG-OD1	5.16	122.94	118.30
1	4-C	755	GLN	CA-CB-CG	5.16	124.75	113.40
1	7-A	959	LEU	CA-CB-CG	5.16	127.16	115.30
1	10-A	53	ASP	CB-CA-C	5.16	120.71	110.40
1	3-B	133	PHE	CB-CG-CD2	-5.16	117.19	120.80
1	15-B	212	LEU	CA-CB-CG	5.15	127.15	115.30
1	19-C	729	VAL	CA-CB-CG1	5.15	118.63	110.90
1	2-A	1111	GLU	CA-CB-CG	5.15	124.73	113.40
1	3-A	1024	LEU	CA-CB-CG	5.15	127.14	115.30
1	17-A	671	CYS	CA-CB-SG	5.15	123.27	114.00
1	7-C	660	TYR	CA-CB-CG	5.15	123.18	113.40
1	9-B	53	ASP	CB-CA-C	5.15	120.70	110.40
1	12-A	135	PHE	CB-CG-CD2	5.15	124.40	120.80
1	15-B	153	MET	CA-CB-CG	5.15	122.05	113.30
1	1-C	948	LEU	CA-CB-CG	5.14	127.13	115.30
1	16-A	977	LEU	CA-CB-CG	5.14	127.13	115.30
1	20-C	414	GLN	CB-CA-C	5.14	120.69	110.40
1	20-C	1029	MET	CB-CG-SD	5.14	127.83	112.40
1	8-B	455	LEU	CA-CB-CG	5.14	127.12	115.30
1	15-B	861	LEU	CA-CB-CG	5.14	127.12	115.30
1	10-C	52	GLN	CA-CB-CG	5.14	124.71	113.40
1	12-A	53	ASP	CB-CA-C	5.14	120.68	110.40
1	12-C	954	GLN	N-CA-CB	5.14	119.85	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	17-C	40	ASP	CB-CA-C	5.14	120.68	110.40
1	19-A	900	MET	CG-SD-CE	-5.14	91.98	100.20
1	1-A	675	GLN	CA-CB-CG	5.14	124.70	113.40
1	12-B	973	ILE	CG1-CB-CG2	5.14	122.70	111.40
1	6-A	745	ASP	CB-CG-OD2	-5.14	113.68	118.30
1	11-C	276	LEU	CA-CB-CG	5.14	127.11	115.30
1	6-B	981	LEU	CB-CG-CD2	5.13	119.73	111.00
1	11-A	759	PHE	CB-CG-CD2	-5.13	117.21	120.80
1	4-A	916	LEU	CA-CB-CG	5.13	127.11	115.30
1	9-B	945	LEU	CA-CB-CG	5.13	127.10	115.30
1	12-A	765	ARG	CA-CB-CG	5.13	124.69	113.40
1	7-B	454	ARG	CD-NE-CZ	5.13	130.78	123.60
1	7-B	740	MET	CA-CB-CG	5.13	122.02	113.30
1	19-A	864	LEU	CA-CB-CG	5.13	127.09	115.30
1	17-A	88	ASP	CB-CG-OD2	5.13	122.91	118.30
1	20-A	902	MET	CB-CG-SD	5.13	127.78	112.40
1	3-B	861	LEU	CA-CB-CG	5.12	127.08	115.30
1	9-A	959	LEU	CA-CB-CG	5.12	127.08	115.30
1	14-C	389	ASP	CB-CG-OD1	5.12	122.91	118.30
1	15-A	959	LEU	CA-CB-CG	5.12	127.08	115.30
1	17-C	53	ASP	CB-CA-C	5.12	120.65	110.40
1	6-C	301	CYS	CA-CB-SG	5.12	123.22	114.00
1	15-A	959	LEU	CB-CG-CD2	5.12	119.70	111.00
1	2-C	737	ASP	CB-CA-C	5.12	120.64	110.40
1	4-C	1005	GLN	CA-CB-CG	5.12	124.66	113.40
1	6-A	877	LEU	CA-CB-CG	5.12	127.07	115.30
1	7-B	52	GLN	CA-CB-CG	5.12	124.66	113.40
1	11-C	319	ARG	CG-CD-NE	5.12	122.55	111.80
1	16-B	1103	PHE	CB-CG-CD1	5.12	124.38	120.80
1	1-A	697	MET	CB-CG-SD	5.12	127.75	112.40
1	1-B	878	LEU	CB-CG-CD2	5.12	119.70	111.00
1	5-B	515	PHE	CB-CG-CD1	5.12	124.38	120.80
1	9-A	755	GLN	N-CA-CB	-5.12	101.39	110.60
1	14-C	428	ASP	CB-CG-OD2	-5.12	113.70	118.30
1	4-B	922	LEU	CA-CB-CG	5.11	127.06	115.30
1	4-C	994	ASP	CB-CG-OD2	5.11	122.90	118.30
1	6-C	55	PHE	CB-CG-CD1	5.11	124.38	120.80
1	9-A	938	LEU	CA-CB-CG	5.11	127.06	115.30
1	7-C	1005	GLN	CA-CB-CG	5.11	124.64	113.40
1	12-C	938	LEU	CB-CG-CD2	5.11	119.68	111.00
1	18-B	52	GLN	CA-CB-CG	5.11	124.64	113.40
1	6-C	1018	ILE	CG1-CB-CG2	-5.11	100.17	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9-C	52	GLN	CA-CB-CG	5.11	124.63	113.40
1	17-A	822	LEU	CA-CB-CG	5.11	127.04	115.30
1	3-B	763	LEU	CA-CB-CG	5.10	127.04	115.30
1	13-C	737	ASP	CB-CG-OD2	5.10	122.89	118.30
1	1-A	984	LEU	CA-CB-CG	5.10	127.04	115.30
1	10-C	895	GLN	CA-CB-CG	5.10	124.62	113.40
1	15-A	568	ASP	CB-CA-C	5.10	120.61	110.40
1	17-A	53	ASP	CB-CA-C	5.10	120.61	110.40
1	6-B	902	MET	CB-CG-SD	5.10	127.70	112.40
1	3-A	53	ASP	CB-CA-C	5.10	120.60	110.40
1	7-B	985	ASP	CB-CA-C	5.10	120.59	110.40
1	11-C	902	MET	CA-CB-CG	5.10	121.97	113.30
1	18-B	985	ASP	CB-CA-C	5.10	120.59	110.40
1	11-B	964	LYS	CB-CG-CD	5.09	124.85	111.60
1	14-B	1002	GLN	CA-CB-CG	5.09	124.61	113.40
1	16-A	902	MET	CB-CG-SD	5.09	127.68	112.40
1	17-B	177	MET	CB-CG-SD	5.09	127.69	112.40
1	9-B	780	GLU	CA-CB-CG	5.09	124.60	113.40
1	13-A	727	LEU	CB-CG-CD1	5.09	119.66	111.00
1	20-B	611	LEU	CA-CB-CG	5.09	127.01	115.30
1	20-C	895	GLN	CA-CB-CG	5.09	124.60	113.40
1	1-A	303	LEU	CA-CB-CG	5.09	127.00	115.30
1	1-C	1029	MET	CB-CG-SD	5.09	127.67	112.40
1	2-A	738	CYS	CA-CB-SG	5.09	123.16	114.00
1	13-B	948	LEU	CB-CG-CD2	-5.09	102.35	111.00
1	20-A	731	MET	CA-CB-CG	5.09	121.95	113.30
1	12-A	731	MET	CA-CB-CG	5.08	121.94	113.30
1	16-C	44	ARG	NE-CZ-NH1	5.08	122.84	120.30
1	9-A	663	ASP	CB-CG-OD1	5.08	122.88	118.30
1	17-A	742	ILE	CG1-CB-CG2	-5.08	100.21	111.40
1	17-B	513	LEU	CA-CB-CG	5.08	126.98	115.30
1	13-C	802	PHE	CB-CG-CD1	-5.08	117.25	120.80
1	17-B	985	ASP	N-CA-CB	-5.08	101.46	110.60
1	19-C	1029	MET	CA-CB-CG	5.08	121.93	113.30
1	6-B	934	ILE	CG1-CB-CG2	-5.08	100.23	111.40
1	13-B	898	PHE	CB-CG-CD1	5.08	124.35	120.80
1	16-C	934	ILE	CG1-CB-CG2	-5.08	100.23	111.40
1	6-C	84	LEU	CA-CB-CG	5.08	126.97	115.30
1	11-C	802	PHE	CB-CG-CD1	5.08	124.35	120.80
1	12-B	993	ILE	CG1-CB-CG2	-5.08	100.23	111.40
1	6-B	359	SER	C-N-CA	5.07	134.38	121.70
1	10-B	390	LEU	CA-CB-CG	5.07	126.97	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	17-B	981	LEU	CA-CB-CG	5.07	126.97	115.30
1	9-C	748	GLU	CA-CB-CG	5.07	124.56	113.40
1	1-B	822	LEU	CA-CB-CG	5.07	126.96	115.30
1	17-C	765	ARG	CG-CD-NE	5.07	122.44	111.80
1	9-A	54	LEU	CA-CB-CG	5.07	126.96	115.30
1	6-C	740	MET	CG-SD-CE	5.07	108.31	100.20
1	15-A	1063	LEU	CA-CB-CG	5.07	126.95	115.30
1	3-B	697	MET	CA-CB-CG	5.06	121.91	113.30
1	6-B	168	PHE	CB-CG-CD1	-5.06	117.25	120.80
1	18-C	699	LEU	CA-CB-CG	5.06	126.95	115.30
1	18-C	934	ILE	CG1-CB-CG2	-5.06	100.27	111.40
1	12-B	922	LEU	CA-CB-CG	5.06	126.94	115.30
1	2-A	753	LEU	CA-CB-CG	5.06	126.93	115.30
1	3-C	1002	GLN	CA-CB-CG	5.06	124.53	113.40
1	7-A	564	GLN	CA-CB-CG	5.06	124.53	113.40
1	9-A	864	LEU	CB-CG-CD2	5.06	119.60	111.00
1	20-B	957	GLN	CA-CB-CG	5.06	124.52	113.40
1	7-C	293	LEU	CA-CB-CG	5.05	126.93	115.30
1	11-A	731	MET	CA-CB-CG	5.05	121.89	113.30
1	13-C	902	MET	CA-CB-CG	5.05	121.89	113.30
1	6-C	177	MET	CA-CB-CG	5.05	121.89	113.30
1	16-B	318	PHE	CB-CG-CD1	-5.05	117.26	120.80
1	2-B	922	LEU	CA-CB-CG	5.05	126.91	115.30
1	9-A	731	MET	CA-CB-CG	5.05	121.88	113.30
1	18-B	276	LEU	CA-CB-CG	5.05	126.91	115.30
1	19-C	168	PHE	CB-CG-CD1	-5.05	117.27	120.80
1	8-A	568	ASP	CB-CA-C	5.04	120.49	110.40
1	19-A	959	LEU	CA-CB-CG	5.04	126.90	115.30
1	12-A	189	LEU	CA-CB-CG	5.04	126.90	115.30
1	20-C	90	VAL	CA-CB-CG1	5.04	118.46	110.90
1	18-B	58	PHE	CB-CG-CD1	5.04	124.33	120.80
1	9-C	870	ILE	CG1-CB-CG2	-5.04	100.31	111.40
1	11-B	303	LEU	CA-CB-CG	5.04	126.89	115.30
1	17-A	568	ASP	CB-CA-C	5.04	120.48	110.40
1	18-B	177	MET	CG-SD-CE	-5.04	92.14	100.20
1	7-B	945	LEU	CA-CB-CG	5.04	126.88	115.30
1	17-A	1012	LEU	CB-CG-CD2	5.04	119.56	111.00
1	18-B	1010	GLN	CB-CA-C	5.03	120.47	110.40
1	18-C	1004	LEU	CA-CB-CG	5.03	126.88	115.30
1	20-B	54	LEU	CA-CB-CG	5.03	126.88	115.30
1	7-C	1024	LEU	CA-CB-CG	5.03	126.87	115.30
1	7-C	979	ASP	CB-CG-OD1	5.03	122.83	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4-A	298	GLU	CA-CB-CG	5.03	124.46	113.40
1	4-B	916	LEU	CA-CB-CG	5.03	126.86	115.30
1	3-B	997	ILE	CA-CB-CG1	5.02	120.55	111.00
1	5-A	663	ASP	CB-CG-OD2	5.02	122.82	118.30
1	7-B	552	LEU	CA-CB-CG	5.02	126.86	115.30
1	20-A	966	LEU	CA-CB-CG	5.02	126.86	115.30
1	17-A	1063	LEU	CA-CB-CG	5.02	126.85	115.30
1	16-A	554	GLU	CA-CB-CG	5.02	124.45	113.40
1	19-C	1032	CYS	CA-CB-SG	-5.02	104.96	114.00
1	9-C	984	LEU	CA-CB-CG	5.02	126.84	115.30
1	17-B	922	LEU	CA-CB-CG	5.02	126.84	115.30
1	18-B	895	GLN	CA-CB-CG	5.02	124.44	113.40
1	8-B	304	LYS	CB-CG-CD	5.02	124.64	111.60
1	10-B	764	ASN	N-CA-CB	5.02	119.63	110.60
1	20-A	699	LEU	CB-CG-CD2	5.01	119.52	111.00
1	14-C	773	GLU	CA-CB-CG	5.01	124.43	113.40
1	5-A	140	PHE	N-CA-CB	5.01	119.62	110.60
1	11-B	301	CYS	CA-CB-SG	5.01	123.02	114.00
1	11-B	731	MET	CB-CG-SD	5.01	127.43	112.40
1	2-B	990	GLU	CA-CB-CG	5.01	124.42	113.40
1	8-A	990	GLU	CA-CB-CG	5.01	124.41	113.40
1	15-A	1012	LEU	CA-CB-CG	5.01	126.81	115.30
1	18-B	922	LEU	CA-CB-CG	5.01	126.81	115.30
1	11-A	270	LEU	CA-CB-CG	5.00	126.81	115.30
1	1-A	1092	GLU	N-CA-CB	5.00	119.61	110.60
1	2-C	574	ASP	CB-CG-OD1	5.00	122.80	118.30
1	8-A	964	LYS	CA-CB-CG	5.00	124.41	113.40
1	8-A	1019	ARG	NE-CZ-NH1	5.00	122.80	120.30
1	12-C	1024	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	13-B	1107	ARG	Sidechain
1	13-B	765	ARG	Sidechain
1	13-B	86	PHE	Sidechain
1	16-B	152	TRP	Mainchain
1	17-C	737	ASP	Sidechain
1	18-A	984	LEU	Peptide
1	9-B	1107	ARG	Sidechain

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	118	0
1	1-B	8454	0	8246	108	0
1	1-C	8454	0	8246	96	0
1	2-A	8454	0	8246	119	0
1	2-B	8454	0	8246	112	0
1	2-C	8454	0	8248	106	0
1	3-A	8454	0	8246	109	0
1	3-B	8454	0	8246	113	0
1	3-C	8454	0	8246	100	0
1	4-A	8454	0	8246	118	0
1	4-B	8454	0	8246	103	0
1	4-C	8454	0	8248	121	0
1	5-A	8454	0	8246	91	0
1	5-B	8454	0	8246	85	0
1	5-C	8454	0	8246	86	0
1	6-A	8454	0	8246	82	0
1	6-B	8454	0	8246	123	0
1	6-C	8454	0	8246	108	0
1	7-A	8454	0	8246	94	0
1	7-B	8454	0	8246	100	0
1	7-C	8454	0	8246	102	0
1	8-A	8454	0	8246	103	0
1	8-B	8454	0	8246	129	0
1	8-C	8454	0	8246	108	0
1	9-A	8454	0	8246	130	0
1	9-B	8454	0	8246	129	0
1	9-C	8454	0	8248	145	0
1	10-A	8454	0	8246	128	0
1	10-B	8454	0	8246	119	0
1	10-C	8454	0	8247	130	0
1	11-A	8454	0	8246	101	0
1	11-B	8454	0	8246	118	0
1	11-C	8454	0	8246	115	0
1	12-A	8454	0	8246	103	0
1	12-B	8454	0	8246	93	0
1	12-C	8454	0	8246	106	0
1	13-A	8454	0	8246	111	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	13-B	8454	0	8246	107	0
1	13-C	8454	0	8247	119	0
1	14-A	8454	0	8246	113	0
1	14-B	8454	0	8246	135	0
1	14-C	8454	0	8248	115	0
1	15-A	8454	0	8246	106	0
1	15-B	8454	0	8246	108	0
1	15-C	8454	0	8248	112	0
1	16-A	8454	0	8246	113	0
1	16-B	8454	0	8246	104	0
1	16-C	8454	0	8246	96	0
1	17-A	8454	0	8246	97	0
1	17-B	8454	0	8246	125	0
1	17-C	8454	0	8246	100	0
1	18-A	8454	0	8246	117	0
1	18-B	8454	0	8246	132	0
1	18-C	8454	0	8246	126	0
1	19-A	8454	0	8246	86	0
1	19-B	8454	0	8246	90	0
1	19-C	8454	0	8248	108	0
1	20-A	8454	0	8246	115	0
1	20-B	8454	0	8246	108	0
1	20-C	8454	0	8248	130	0
All	All	507240	0	494776	6040	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 (6040) 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:B:14:GLN:N	1:B:255:SER:HG	1.69	0.90
1:B:14:GLN:N	1:B:255:SER:HG	1.73	0.87
1:B:14:GLN:N	1:B:255:SER:HG	1.75	0.84
1:C:214:ARG:HH11	1:C:215:GLY:H	1.25	0.83
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.61	0.82
1:A:969:ASN:OD1	1:B:755:GLN:NE2	2.12	0.82
1:B:14:GLN:N	1:B:255:SER:HG	1.80	0.80
1:A:319:ARG:HH22	1:B:740:MET:HB2	1.48	0.79
1:B:312:ILE:HD11	1:B:596:SER:HB3	1.65	0.79
1:A:969:ASN:OD1	1:B:755:GLN:NE2	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:PRO:HG3	1:C:273:ARG:HE	1.50	0.77
1:A:969:ASN:HD21	1:B:755:GLN:HG2	1.51	0.76
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.66	0.76
1:B:312:ILE:HD11	1:B:596:SER:HB3	1.68	0.76
1:A:731:MET:HG3	1:A:955:ASN:HD21	1.50	0.75
1:A:1017:GLU:OE1	1:B:1019:ARG:NH1	2.17	0.75
1:B:312:ILE:HD11	1:B:596:SER:HB3	1.68	0.74
1:C:884:SER:HB3	1:C:887:THR:HB	1.70	0.73
1:A:969:ASN:OD1	1:B:755:GLN:NE2	2.21	0.73
1:C:314:GLN:HE22	1:C:594:GLY:HA3	1.51	0.73
1:A:992:GLN:HE21	1:A:995:ARG:HH21	1.36	0.73
1:C:858:LEU:HD13	1:C:959:LEU:HD12	1.70	0.72
1:C:953:ASN:O	1:C:957:GLN:HB2	1.88	0.72
1:C:552:LEU:HB3	1:C:585:LEU:HD23	1.71	0.72
1:A:598:ILE:HD11	1:A:666:ILE:HD11	1.71	0.72
1:B:749:CYS:O	1:B:753:LEU:HB2	1.90	0.72
1:C:291:CYS:HB2	1:C:298:GLU:HA	1.71	0.72
1:B:362:VAL:HG21	1:B:526:GLY:H	1.55	0.72
1:B:592:PHE:O	1:C:854:LYS:NZ	2.23	0.72
1:A:666:ILE:HG12	1:A:671:CYS:HA	1.72	0.72
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.53	0.72
1:B:381:GLY:HA3	1:C:983:ARG:HH12	1.54	0.72
1:A:14:GLN:N	1:A:255:SER:HG	1.88	0.72
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.72	0.72
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.72	0.72
1:A:869:MET:HG2	1:C:699:LEU:HD11	1.72	0.71
1:C:763:LEU:HD22	1:C:1004:LEU:HD22	1.72	0.71
1:C:555:SER:HB2	1:C:586:ASP:HB2	1.71	0.71
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.71	0.71
1:B:312:ILE:HD11	1:B:596:SER:HB3	1.72	0.71
1:A:197:ILE:HB	1:A:202:LYS:HZ1	1.55	0.71
1:C:129:LYS:NZ	1:C:131:CYS:SG	2.63	0.71
1:B:214:ARG:HE	1:B:215:GLY:H	1.38	0.71
1:A:598:ILE:HD11	1:A:666:ILE:HD11	1.72	0.70
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.74	0.70
1:A:983:ARG:HG3	1:A:984:LEU:HD12	1.72	0.70
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.73	0.70
1:A:740:MET:SD	1:C:319:ARG:NH2	2.63	0.70
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.73	0.70
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.72	0.70
1:B:902:MET:HE1	1:B:905:ARG:HD2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:984:LEU:HD11	1:A:988:GLU:HB2	1.74	0.70
1:A:1054:GLN:HB2	1:A:1061:VAL:HG22	1.72	0.70
1:A:1091:ARG:NH1	1:A:1118:ASP:O	2.24	0.70
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.73	0.70
1:C:555:SER:HB2	1:C:586:ASP:HB2	1.74	0.70
1:B:362:VAL:HG21	1:B:526:GLY:H	1.57	0.70
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.74	0.70
1:C:14:GLN:N	1:C:255:SER:HG	1.88	0.70
1:C:1051:SER:HG	1:C:1064:HIS:HD1	1.39	0.70
1:A:1039:ARG:HH11	1:C:1039:ARG:HH12	1.40	0.69
1:B:731:MET:SD	1:B:774:GLN:NE2	2.65	0.69
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.71	0.69
1:B:767:LEU:HA	1:B:770:ILE:HD12	1.73	0.69
1:B:317:ASN:ND2	1:C:737:ASP:OD2	2.25	0.69
1:C:555:SER:HB2	1:C:586:ASP:HB2	1.75	0.69
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.75	0.69
1:B:1043:CYS:O	1:B:1064:HIS:ND1	2.25	0.69
1:C:714:ILE:HD12	1:C:715:PRO:HD2	1.73	0.69
1:A:770:ILE:O	1:A:774:GLN:HB2	1.91	0.69
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.75	0.69
1:A:1129:VAL:HG12	1:B:917:TYR:HB3	1.75	0.69
1:B:312:ILE:HD13	1:B:598:ILE:HG13	1.74	0.69
1:B:978:ASN:OD1	1:B:978:ASN:N	2.25	0.69
1:A:230:PRO:HB2	1:C:357:ARG:HH12	1.57	0.69
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.73	0.69
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	1.75	0.69
1:B:914:ASN:ND2	1:B:1111:GLU:OE2	2.24	0.69
1:C:310:LYS:HG2	1:C:664:ILE:HD11	1.75	0.69
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.73	0.69
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.73	0.69
1:C:555:SER:HB2	1:C:586:ASP:HB2	1.74	0.69
1:B:971:GLY:HA3	1:B:995:ARG:HH21	1.57	0.69
1:A:969:ASN:OD1	1:B:755:GLN:NE2	2.26	0.68
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.41	0.68
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.75	0.68
1:A:547:THR:HB	1:B:978:ASN:HD22	1.59	0.68
1:B:1010:GLN:OE1	1:B:1014:ARG:NH2	2.25	0.68
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.76	0.68
1:A:732:THR:OG1	1:A:955:ASN:ND2	2.26	0.68
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.73	0.68
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:VAL:HG21	1:B:526:GLY:H	1.59	0.68
1:B:731:MET:H	1:B:774:GLN:HE22	1.42	0.68
1:B:714:ILE:HD12	1:B:715:PRO:HD2	1.75	0.68
1:A:1032:CYS:HA	1:A:1048:HIS:HE1	1.59	0.68
1:C:742:ILE:HD11	1:C:997:ILE:HA	1.75	0.68
1:C:1083:HIS:HB3	1:C:1088:HIS:HE1	1.58	0.68
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.76	0.68
1:B:596:SER:HB3	1:B:611:LEU:HB3	1.76	0.68
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.76	0.68
1:C:902:MET:HB2	1:C:916:LEU:HD21	1.76	0.68
1:B:362:VAL:HG21	1:B:526:GLY:H	1.57	0.68
1:B:1014:ARG:HA	1:B:1017:GLU:HG3	1.75	0.68
1:A:1013:ILE:HG21	1:B:1012:LEU:HD12	1.76	0.68
1:C:293:LEU:HD23	1:C:294:ASP:HB2	1.76	0.68
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.74	0.68
1:C:1010:GLN:HE22	1:C:1014:ARG:HE	1.42	0.68
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.76	0.68
1:C:714:ILE:HD12	1:C:715:PRO:HD2	1.74	0.68
1:B:125:ASN:ND2	1:B:172:SER:O	2.27	0.68
1:A:767:LEU:HA	1:A:770:ILE:HD12	1.76	0.68
1:C:555:SER:HB2	1:C:586:ASP:HB2	1.75	0.67
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.76	0.67
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.77	0.67
1:C:452:LEU:HB3	1:C:492:LEU:HD11	1.75	0.67
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.75	0.67
1:A:825:LYS:HD2	1:A:945:LEU:HD12	1.75	0.67
1:C:560:LEU:HB2	1:C:563:GLN:HG3	1.76	0.67
1:A:755:GLN:NE2	1:C:969:ASN:OD1	2.28	0.67
1:C:731:MET:HB3	1:C:774:GLN:HE22	1.60	0.67
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.74	0.67
1:B:763:LEU:HD22	1:B:1008:VAL:HG11	1.75	0.67
1:B:731:MET:SD	1:B:731:MET:N	2.68	0.67
1:A:755:GLN:OE1	1:C:969:ASN:ND2	2.28	0.67
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.77	0.67
1:B:969:ASN:OD1	1:C:755:GLN:NE2	2.28	0.67
1:C:57:PRO:HG3	1:C:273:ARG:HD2	1.75	0.67
1:A:777:ASN:OD1	1:A:1019:ARG:NH2	2.28	0.67
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.76	0.67
1:A:971:GLY:H	1:B:755:GLN:HE22	1.40	0.67
1:A:1017:GLU:OE1	1:B:1019:ARG:NH1	2.27	0.67
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:PRO:HG3	1:B:273:ARG:HG3	1.76	0.67
1:B:394:ASN:HD22	1:B:396:TYR:HE1	1.42	0.67
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.77	0.67
1:C:560:LEU:HD23	1:C:562:PHE:H	1.60	0.67
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.60	0.67
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.77	0.67
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.76	0.67
1:B:971:GLY:HA3	1:B:995:ARG:HH22	1.58	0.67
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.76	0.67
1:A:864:LEU:HD11	1:C:665:PRO:HB2	1.77	0.67
1:A:913:GLN:HE21	1:C:1089:PHE:HB3	1.61	0.66
1:B:731:MET:SD	1:B:774:GLN:NE2	2.67	0.66
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.42	0.66
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.77	0.66
1:C:418:ILE:HA	1:C:422:ASN:HD22	1.59	0.66
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.77	0.66
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.77	0.66
1:C:314:GLN:HE22	1:C:594:GLY:HA3	1.60	0.66
1:B:129:LYS:HD2	1:B:169:GLU:HG3	1.77	0.66
1:B:312:ILE:HD11	1:B:596:SER:HB3	1.76	0.66
1:B:1010:GLN:HB3	1:B:1014:ARG:HH21	1.60	0.66
1:A:726:ILE:HD13	1:A:1061:VAL:HG12	1.78	0.66
1:C:784:GLN:HE21	1:C:1029:MET:HG3	1.58	0.66
1:B:662:CYS:HB2	1:B:697:MET:HG2	1.77	0.66
1:A:271:GLN:HB2	1:A:273:ARG:HH12	1.59	0.66
1:A:57:PRO:HG3	1:A:273:ARG:HD2	1.77	0.66
1:B:362:VAL:HG21	1:B:526:GLY:H	1.60	0.66
1:A:1002:GLN:HA	1:A:1005:GLN:HE21	1.61	0.66
1:B:278:LYS:NZ	1:B:286:THR:OG1	2.29	0.66
1:A:776:LYS:NZ	1:A:780:GLU:OE1	2.24	0.66
1:A:369:TYR:HB3	1:C:487:ASN:HD21	1.61	0.66
1:C:560:LEU:HD23	1:C:562:PHE:H	1.61	0.66
1:B:362:VAL:HG21	1:B:526:GLY:H	1.59	0.66
1:C:884:SER:HB3	1:C:887:THR:HB	1.78	0.66
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.59	0.66
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.75	0.66
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.78	0.66
1:A:776:LYS:NZ	1:A:780:GLU:OE2	2.28	0.66
1:A:765:ARG:NH1	1:C:957:GLN:OE1	2.29	0.66
1:C:314:GLN:NE2	1:C:316:SER:O	2.29	0.66
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.61	0.66
1:A:1129:VAL:HG12	1:B:917:TYR:HB3	1.78	0.66
1:B:214:ARG:HE	1:B:215:GLY:H	1.43	0.66
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.79	0.65
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.77	0.65
1:C:189:LEU:HD22	1:C:210:ILE:HD13	1.76	0.65
1:C:119:ILE:HD12	1:C:128:ILE:HG12	1.78	0.65
1:C:84:LEU:HD12	1:C:85:PRO:HD2	1.76	0.65
1:A:897:PRO:HG2	1:A:900:MET:HB2	1.77	0.65
1:A:201:PHE:HB3	1:A:229:LEU:HB2	1.78	0.65
1:C:206:LYS:HB3	1:C:223:LEU:HD13	1.77	0.65
1:A:726:ILE:HD12	1:A:1061:VAL:HG22	1.77	0.65
1:B:815:ARG:HG2	1:B:819:GLU:HG3	1.77	0.65
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.78	0.65
1:C:905:ARG:NH1	1:C:1049:LEU:O	2.29	0.65
1:A:323:THR:OG1	1:A:324:GLU:OE1	2.14	0.65
1:C:452:LEU:HB3	1:C:492:LEU:HD11	1.79	0.65
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.79	0.65
1:A:317:ASN:ND2	1:B:737:ASP:OD1	2.29	0.65
1:B:727:LEU:HD21	1:B:1024:LEU:HD22	1.78	0.65
1:A:201:PHE:HB2	1:A:229:LEU:HB2	1.77	0.65
1:B:1129:VAL:HG23	1:C:917:TYR:HB3	1.78	0.65
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.79	0.65
1:C:576:VAL:HG13	1:C:587:ILE:HD11	1.78	0.65
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.79	0.65
1:A:314:GLN:HE22	1:A:594:GLY:HA3	1.61	0.65
1:C:126:VAL:HG21	1:C:226:LEU:HD21	1.79	0.65
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.29	0.65
1:C:293:LEU:HD23	1:C:294:ASP:HB2	1.77	0.65
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.78	0.65
1:A:357:ARG:NH2	1:A:394:ASN:OD1	2.29	0.65
1:B:971:GLY:HA3	1:B:995:ARG:HH22	1.62	0.65
1:C:568:ASP:OD2	1:C:569:ILE:N	2.30	0.65
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.77	0.65
1:A:53:ASP:OD1	1:A:54:LEU:N	2.30	0.65
1:C:851:CYS:HA	1:C:854:LYS:HG3	1.79	0.65
1:A:765:ARG:NH1	1:C:957:GLN:OE1	2.30	0.65
1:A:956:ALA:O	1:A:960:ASN:HB2	1.97	0.64
1:B:293:LEU:HD23	1:B:294:ASP:HB2	1.79	0.64
1:B:106:PHE:HB2	1:B:117:LEU:HB2	1.78	0.64
1:A:1017:GLU:OE2	1:B:1019:ARG:NH1	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:ARG:HE	1:A:292:ALA:HB3	1.61	0.64
1:A:791:THR:HG21	1:A:806:LEU:HD21	1.79	0.64
1:C:93:ALA:HB3	1:C:266:TYR:HB2	1.79	0.64
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.62	0.64
1:A:104:TRP:H	1:A:119:ILE:HB	1.62	0.64
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.63	0.64
1:B:153:MET:SD	1:B:153:MET:N	2.69	0.64
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.78	0.64
1:C:984:LEU:HD13	1:C:988:GLU:HG3	1.79	0.64
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.78	0.64
1:B:83:VAL:HA	1:B:239:GLN:HE22	1.63	0.64
1:A:120:VAL:HB	1:A:127:VAL:HB	1.80	0.64
1:C:14:GLN:N	1:C:255:SER:HG	1.96	0.64
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.79	0.64
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.78	0.64
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.62	0.64
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.79	0.64
1:B:896:ILE:HG23	1:B:901:GLN:HE21	1.62	0.64
1:B:858:LEU:HD21	1:B:962:LEU:HD23	1.80	0.64
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.80	0.64
1:A:337:PRO:HB2	1:A:340:GLU:HG2	1.78	0.64
1:A:759:PHE:HA	1:A:762:GLN:HG3	1.79	0.64
1:C:954:GLN:OE1	1:C:1014:ARG:NH1	2.31	0.64
1:C:385:THR:O	1:C:388:ASN:ND2	2.30	0.64
1:B:1028:LYS:O	1:B:1032:CYS:HB2	1.97	0.64
1:A:1013:ILE:HG21	1:B:1012:LEU:HD12	1.80	0.64
1:A:992:GLN:OE1	1:A:995:ARG:NH2	2.31	0.64
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.80	0.64
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.80	0.64
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.80	0.64
1:C:610:VAL:HG13	1:C:651:ILE:HG13	1.79	0.64
1:C:452:LEU:HB3	1:C:492:LEU:HD11	1.80	0.64
1:C:53:ASP:OD1	1:C:54:LEU:N	2.31	0.64
1:B:951:VAL:HA	1:B:954:GLN:HE21	1.63	0.64
1:A:273:ARG:HE	1:A:292:ALA:HB3	1.63	0.64
1:C:784:GLN:HE21	1:C:1029:MET:HG3	1.63	0.64
1:A:740:MET:HB2	1:C:319:ARG:HH12	1.63	0.64
1:C:563:GLN:O	1:C:577:ARG:NH1	2.31	0.64
1:A:104:TRP:HB2	1:A:106:PHE:HE2	1.62	0.64
1:A:825:LYS:NZ	1:A:938:LEU:O	2.28	0.64
1:B:969:ASN:OD1	1:C:755:GLN:NE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:997:ILE:O	1:A:1001:LEU:HB2	1.98	0.64
1:A:784:GLN:HE21	1:A:784:GLN:HA	1.63	0.64
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.79	0.64
1:A:914:ASN:ND2	1:A:918:GLU:OE2	2.30	0.64
1:A:326:ILE:HD11	1:A:534:VAL:HG12	1.78	0.64
1:B:457:ARG:NH1	1:B:459:SER:O	2.30	0.64
1:C:53:ASP:OD1	1:C:54:LEU:N	2.30	0.64
1:A:971:GLY:H	1:B:755:GLN:HE22	1.43	0.64
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.78	0.63
1:B:430:THR:HB	1:C:983:ARG:HH21	1.63	0.63
1:C:825:LYS:NZ	1:C:938:LEU:O	2.29	0.63
1:C:126:VAL:HG21	1:C:226:LEU:HD21	1.79	0.63
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.78	0.63
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.79	0.63
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.80	0.63
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.79	0.63
1:B:729:VAL:HG21	1:B:781:VAL:HG11	1.78	0.63
1:C:905:ARG:NH1	1:C:1049:LEU:O	2.30	0.63
1:C:708:SER:HB3	1:C:711:SER:HB3	1.80	0.63
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.80	0.63
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.81	0.63
1:B:44:ARG:HH21	1:B:49:HIS:HB2	1.63	0.63
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.32	0.63
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.80	0.63
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.81	0.63
1:B:853:GLN:HG3	1:B:959:LEU:HD13	1.81	0.63
1:A:666:ILE:HG12	1:A:671:CYS:HA	1.80	0.63
1:A:903:ALA:HB1	1:A:913:GLN:HG2	1.80	0.63
1:C:746:SER:OG	1:C:748:GLU:OE1	2.17	0.63
1:C:825:LYS:NZ	1:C:938:LEU:O	2.30	0.63
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.81	0.63
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.81	0.63
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.80	0.63
1:A:903:ALA:HB1	1:A:913:GLN:HG2	1.79	0.63
1:C:120:VAL:HB	1:C:127:VAL:HB	1.80	0.63
1:A:825:LYS:HB3	1:A:945:LEU:HD21	1.80	0.63
1:B:666:ILE:HD13	1:B:670:ILE:HG22	1.79	0.63
1:A:850:ILE:HG22	1:A:854:LYS:HE2	1.80	0.63
1:A:1049:LEU:HB2	1:A:1065:VAL:HG23	1.79	0.63
1:B:310:LYS:HG2	1:B:664:ILE:HD11	1.79	0.63
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:866:THR:H	1:B:869:MET:HE3	1.62	0.63
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.80	0.63
1:C:889:GLY:HA3	1:C:1034:LEU:HD21	1.79	0.63
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.80	0.63
1:B:52:GLN:NE2	1:B:274:THR:OG1	2.32	0.63
1:A:773:GLU:OE2	1:A:1019:ARG:NH1	2.32	0.63
1:B:519:HIS:O	1:B:564:GLN:NE2	2.31	0.63
1:A:894:LEU:HD21	1:C:715:PRO:HD3	1.79	0.63
1:B:697:MET:HG2	1:C:869:MET:HE1	1.80	0.63
1:C:452:LEU:HB3	1:C:492:LEU:HD11	1.81	0.63
1:C:310:LYS:HG2	1:C:664:ILE:HD11	1.80	0.63
1:C:385:THR:O	1:C:388:ASN:ND2	2.31	0.63
1:A:1129:VAL:HG12	1:B:917:TYR:HB3	1.79	0.63
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.81	0.63
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.79	0.63
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.79	0.63
1:C:609:ALA:HB2	1:C:692:ILE:HG21	1.81	0.63
1:A:1013:ILE:HG21	1:B:1012:LEU:HB3	1.81	0.63
1:B:784:GLN:HE21	1:B:1029:MET:HG3	1.61	0.63
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.81	0.63
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.79	0.63
1:C:53:ASP:OD1	1:C:54:LEU:N	2.31	0.63
1:C:295:PRO:HA	1:C:298:GLU:HG3	1.81	0.63
1:C:418:ILE:HA	1:C:422:ASN:HD22	1.64	0.63
1:C:905:ARG:NH1	1:C:1049:LEU:O	2.32	0.63
1:B:1010:GLN:OE1	1:B:1014:ARG:NH1	2.31	0.62
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.81	0.62
1:C:909:ILE:O	1:C:1108:ASN:ND2	2.32	0.62
1:A:319:ARG:HH12	1:B:740:MET:HB2	1.63	0.62
1:A:370:ASN:O	1:C:487:ASN:ND2	2.32	0.62
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.80	0.62
1:B:18:PHE:HB2	1:B:21:ARG:HB2	1.81	0.62
1:C:418:ILE:HA	1:C:422:ASN:HD22	1.64	0.62
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.81	0.62
1:A:317:ASN:ND2	1:B:737:ASP:OD1	2.30	0.62
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.81	0.62
1:A:955:ASN:HD22	1:A:955:ASN:H	1.45	0.62
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.80	0.62
1:B:317:ASN:ND2	1:C:737:ASP:OD2	2.32	0.62
1:A:1005:GLN:OE1	1:C:1002:GLN:NE2	2.29	0.62
1:A:224:GLU:HG3	1:C:560:LEU:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:189:LEU:HD22	1:C:210:ILE:HD13	1.82	0.62
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.82	0.62
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.80	0.62
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.79	0.62
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.33	0.62
1:C:53:ASP:OD1	1:C:54:LEU:N	2.32	0.62
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.65	0.62
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.82	0.62
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.81	0.62
1:A:41:LYS:NZ	1:C:562:PHE:O	2.29	0.62
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.81	0.62
1:B:40:ASP:OD1	1:B:41:LYS:N	2.33	0.62
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.82	0.62
1:B:749:CYS:O	1:B:753:LEU:HB2	2.00	0.62
1:B:557:LYS:NZ	1:B:574:ASP:OD2	2.32	0.62
1:B:1084:ASP:OD2	1:B:1086:LYS:NZ	2.32	0.62
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.81	0.62
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.65	0.62
1:C:312:ILE:HD13	1:C:598:ILE:HG13	1.81	0.62
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.32	0.62
1:B:433:VAL:HA	1:B:512:VAL:HG12	1.82	0.62
1:B:362:VAL:HG21	1:B:526:GLY:H	1.63	0.62
1:A:569:ILE:O	1:B:964:LYS:NZ	2.32	0.62
1:C:189:LEU:HD12	1:C:210:ILE:HD13	1.81	0.62
1:A:201:PHE:HB2	1:A:229:LEU:HB2	1.81	0.62
1:C:552:LEU:HB3	1:C:585:LEU:HD23	1.82	0.62
1:A:120:VAL:HB	1:A:127:VAL:HB	1.81	0.62
1:A:729:VAL:HG22	1:A:1059:GLY:HA2	1.81	0.62
1:C:314:GLN:NE2	1:C:316:SER:O	2.32	0.62
1:A:120:VAL:HB	1:A:127:VAL:HB	1.81	0.62
1:B:119:ILE:HG12	1:B:128:ILE:HD12	1.82	0.62
1:B:776:LYS:NZ	1:B:780:GLU:OE1	2.33	0.62
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.80	0.62
1:B:430:THR:HB	1:C:983:ARG:HH21	1.64	0.62
1:B:1074:ASN:OD1	1:C:895:GLN:NE2	2.31	0.62
1:C:394:ASN:HB2	1:C:516:GLU:HB3	1.81	0.62
1:C:53:ASP:OD1	1:C:54:LEU:N	2.33	0.62
1:C:418:ILE:HA	1:C:422:ASN:HD22	1.65	0.62
1:A:319:ARG:NH2	1:B:740:MET:SD	2.72	0.62
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.81	0.62
1:A:201:PHE:HB3	1:A:229:LEU:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.48	0.62
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.81	0.62
1:A:379:CYS:SG	1:A:380:TYR:N	2.73	0.62
1:A:273:ARG:HE	1:A:292:ALA:HB3	1.65	0.62
1:B:1107:ARG:HH11	1:C:904:TYR:HD1	1.47	0.62
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.82	0.62
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.81	0.62
1:A:776:LYS:NZ	1:A:780:GLU:OE1	2.33	0.62
1:A:745:ASP:OD1	1:C:319:ARG:NH2	2.31	0.62
1:A:708:SER:HB3	1:A:711:SER:HB3	1.81	0.62
1:A:1031:GLU:HB3	1:A:1037:SER:HB2	1.82	0.62
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.64	0.62
1:C:884:SER:HB3	1:C:887:THR:HB	1.81	0.62
1:C:784:GLN:HE21	1:C:1029:MET:HG3	1.65	0.62
1:A:104:TRP:H	1:A:119:ILE:HB	1.64	0.62
1:A:791:THR:HG21	1:A:806:LEU:HD21	1.82	0.61
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.64	0.61
1:B:408:ARG:O	1:B:408:ARG:NE	2.29	0.61
1:A:326:ILE:HD11	1:A:533:LEU:HA	1.82	0.61
1:B:293:LEU:HD23	1:B:294:ASP:HB2	1.82	0.61
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.81	0.61
1:A:733:LYS:NZ	1:A:862:PRO:O	2.33	0.61
1:B:126:VAL:HB	1:B:172:SER:HB3	1.82	0.61
1:A:665:PRO:HB2	1:B:864:LEU:HD11	1.82	0.61
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.65	0.61
1:C:394:ASN:HB2	1:C:516:GLU:HB3	1.81	0.61
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.82	0.61
1:C:418:ILE:HA	1:C:422:ASN:HD22	1.66	0.61
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.65	0.61
1:A:869:MET:HB3	1:C:699:LEU:HD11	1.81	0.61
1:C:293:LEU:HD23	1:C:294:ASP:HB2	1.82	0.61
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.82	0.61
1:B:709:ASN:ND2	1:C:796:ASP:OD1	2.33	0.61
1:B:362:VAL:HG21	1:B:526:GLY:H	1.65	0.61
1:A:770:ILE:O	1:A:774:GLN:HB3	2.01	0.61
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.65	0.61
1:A:997:ILE:O	1:A:1001:LEU:HB2	2.00	0.61
1:C:17:ASN:HB2	1:C:21:ARG:HD3	1.82	0.61
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.81	0.61
1:A:765:ARG:HH22	1:C:957:GLN:HG2	1.65	0.61
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.82	0.61
1:B:738:CYS:HB2	1:B:763:LEU:HD11	1.82	0.61
1:C:104:TRP:H	1:C:119:ILE:HB	1.65	0.61
1:C:1010:GLN:HB2	1:C:1014:ARG:HH21	1.66	0.61
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.83	0.61
1:A:120:VAL:HB	1:A:127:VAL:HB	1.81	0.61
1:A:758:SER:OG	1:C:965:GLN:NE2	2.33	0.61
1:A:201:PHE:HD1	1:A:229:LEU:HD13	1.65	0.61
1:B:409:GLN:O	1:B:414:GLN:NE2	2.31	0.61
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.82	0.61
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.83	0.61
1:A:965:GLN:HE21	1:A:965:GLN:HA	1.65	0.61
1:A:328:ARG:NH1	1:A:531:THR:O	2.34	0.61
1:B:362:VAL:HG21	1:B:526:GLY:H	1.65	0.61
1:B:858:LEU:HD21	1:B:962:LEU:HD23	1.82	0.61
1:C:642:VAL:HG23	1:C:651:ILE:HG22	1.82	0.61
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.82	0.61
1:B:53:ASP:OD1	1:B:54:LEU:N	2.32	0.61
1:A:729:VAL:HG22	1:A:1059:GLY:HA2	1.82	0.61
1:B:201:PHE:HB3	1:B:229:LEU:HB2	1.83	0.61
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.63	0.61
1:C:40:ASP:OD2	1:C:41:LYS:N	2.33	0.61
1:A:969:ASN:ND2	1:B:755:GLN:OE1	2.26	0.61
1:C:906:PHE:HB3	1:C:911:VAL:HB	1.83	0.61
1:B:84:LEU:HD12	1:B:85:PRO:HD2	1.83	0.61
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.82	0.61
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.34	0.61
1:A:699:LEU:HD11	1:B:869:MET:HB3	1.83	0.61
1:A:894:LEU:HD11	1:C:715:PRO:HD3	1.83	0.61
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.82	0.61
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.65	0.61
1:B:562:PHE:O	1:C:41:LYS:NZ	2.32	0.61
1:C:594:GLY:HA3	1:C:613:GLN:HE21	1.65	0.61
1:A:730:SER:HA	1:A:774:GLN:HE22	1.65	0.61
1:A:866:THR:OG1	1:A:869:MET:SD	2.56	0.61
1:B:139:PRO:HG2	1:B:245:HIS:HE1	1.66	0.61
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.83	0.61
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.33	0.61
1:A:897:PRO:HG2	1:A:900:MET:HG2	1.81	0.61
1:C:884:SER:HB3	1:C:887:THR:HB	1.83	0.61
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:457:ARG:NH1	1:B:459:SER:O	2.34	0.61
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.83	0.61
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.82	0.61
1:A:185:ASN:ND2	1:A:212:LEU:O	2.33	0.61
1:A:731:MET:HB3	1:A:774:GLN:HE22	1.64	0.61
1:A:763:LEU:HD22	1:A:1004:LEU:HD23	1.82	0.61
1:A:773:GLU:OE1	1:A:1019:ARG:NE	2.34	0.60
1:B:357:ARG:HD3	1:B:396:TYR:HE1	1.64	0.60
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.65	0.60
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.63	0.60
1:A:357:ARG:NH2	1:A:394:ASN:OD1	2.34	0.60
1:A:894:LEU:HD11	1:C:715:PRO:HD3	1.83	0.60
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.81	0.60
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.82	0.60
1:C:563:GLN:O	1:C:577:ARG:NH2	2.34	0.60
1:C:197:ILE:HB	1:C:202:LYS:HZ1	1.65	0.60
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.84	0.60
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.82	0.60
1:B:668:ALA:H	1:C:864:LEU:HA	1.64	0.60
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.83	0.60
1:B:204:TYR:HA	1:B:225:PRO:HA	1.83	0.60
1:B:312:ILE:HD13	1:B:598:ILE:HG13	1.83	0.60
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.83	0.60
1:C:870:ILE:HD12	1:C:1055:SER:HB2	1.82	0.60
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.64	0.60
1:A:92:PHE:HB2	1:A:192:PHE:HB2	1.84	0.60
1:C:958:ALA:HB1	1:C:1007:TYR:HE2	1.66	0.60
1:A:1129:VAL:HG12	1:B:917:TYR:HB3	1.83	0.60
1:C:825:LYS:NZ	1:C:938:LEU:O	2.31	0.60
1:A:826:VAL:HG23	1:A:945:LEU:HD22	1.82	0.60
1:A:120:VAL:HB	1:A:127:VAL:HB	1.83	0.60
1:A:914:ASN:ND2	1:C:1123:SER:OG	2.34	0.60
1:A:869:MET:HG2	1:C:699:LEU:HD11	1.84	0.60
1:C:905:ARG:NH1	1:C:1049:LEU:O	2.34	0.60
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.83	0.60
1:A:729:VAL:HG22	1:A:1059:GLY:HA2	1.83	0.60
1:C:1054:GLN:HB2	1:C:1061:VAL:HB	1.83	0.60
1:B:394:ASN:ND2	1:C:200:TYR:OH	2.34	0.60
1:A:547:THR:HG21	1:B:978:ASN:HB2	1.84	0.60
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.83	0.60
1:C:330:PRO:HD3	1:C:544:ASN:HD22	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.82	0.60
1:A:914:ASN:ND2	1:C:1123:SER:OG	2.34	0.60
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.84	0.60
1:C:309:GLU:OE1	1:C:310:LYS:N	2.33	0.60
1:A:200:TYR:HA	1:A:230:PRO:HA	1.83	0.60
1:A:726:ILE:HD13	1:A:1061:VAL:HG12	1.83	0.60
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.34	0.60
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.84	0.60
1:A:383:SER:H	1:A:386:LYS:HE3	1.66	0.60
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.34	0.60
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.83	0.60
1:A:869:MET:HG2	1:C:699:LEU:HD11	1.82	0.60
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.82	0.60
1:B:954:GLN:HB2	1:B:1014:ARG:HH12	1.67	0.60
1:C:57:PRO:HG3	1:C:273:ARG:HE	1.66	0.60
1:A:742:ILE:HD12	1:A:753:LEU:HD21	1.83	0.60
1:B:57:PRO:HG3	1:B:273:ARG:HD2	1.83	0.60
1:C:825:LYS:HE3	1:C:942:ALA:HA	1.83	0.60
1:C:53:ASP:OD2	1:C:54:LEU:N	2.34	0.60
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.84	0.60
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.84	0.60
1:C:64:TRP:HE1	1:C:214:ARG:HH21	1.49	0.60
1:C:905:ARG:NH1	1:C:1049:LEU:O	2.34	0.60
1:C:975:SER:O	1:C:1000:ARG:NH2	2.35	0.60
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.48	0.60
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.84	0.60
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.84	0.60
1:B:992:GLN:OE1	1:B:995:ARG:NH2	2.35	0.60
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.84	0.60
1:C:738:CYS:HB3	1:C:763:LEU:HD11	1.83	0.60
1:B:293:LEU:HD23	1:B:294:ASP:HB2	1.84	0.60
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.82	0.60
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.66	0.60
1:B:741:TYR:HE2	1:B:1004:LEU:HB2	1.67	0.60
1:A:323:THR:OG1	1:A:324:GLU:OE2	2.14	0.60
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.83	0.60
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.84	0.60
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.84	0.60
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.82	0.60
1:A:564:GLN:H	1:B:43:PHE:HD1	1.49	0.60
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:984:LEU:HD11	1:C:988:GLU:HB2	1.84	0.60
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.83	0.60
1:B:424:LYS:HD2	1:B:463:PRO:HG3	1.83	0.60
1:C:777:ASN:HD21	1:C:1019:ARG:HG2	1.66	0.60
1:A:569:ILE:O	1:B:964:LYS:NZ	2.33	0.60
1:A:914:ASN:HD21	1:C:1121:PHE:HE1	1.50	0.60
1:B:957:GLN:HB3	1:C:765:ARG:HH12	1.67	0.60
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.84	0.60
1:B:804:GLN:NE2	1:B:935:GLN:OE1	2.35	0.60
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.82	0.60
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.83	0.60
1:A:869:MET:HG2	1:C:699:LEU:HD11	1.84	0.60
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.67	0.60
1:A:770:ILE:HD11	1:A:1012:LEU:HD13	1.84	0.60
1:C:1002:GLN:OE1	1:C:1005:GLN:NE2	2.34	0.60
1:C:825:LYS:NZ	1:C:938:LEU:O	2.28	0.60
1:A:726:ILE:HG13	1:A:1061:VAL:HG23	1.83	0.60
1:A:774:GLN:HE21	1:A:1018:ILE:HD12	1.67	0.60
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.84	0.60
1:B:293:LEU:HD23	1:B:294:ASP:HB2	1.83	0.60
1:B:676:THR:HA	1:B:690:GLN:HG2	1.84	0.60
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.84	0.60
1:C:206:LYS:HE2	1:C:208:THR:HB	1.82	0.60
1:A:784:GLN:HE21	1:A:1029:MET:HG3	1.67	0.59
1:A:567:ARG:HG2	1:B:42:VAL:HG21	1.84	0.59
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.84	0.59
1:A:230:PRO:HB2	1:C:357:ARG:HH12	1.67	0.59
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.35	0.59
1:B:763:LEU:HD22	1:B:1008:VAL:HG11	1.84	0.59
1:B:1019:ARG:HH21	1:B:1023:ASN:HD21	1.49	0.59
1:B:126:VAL:HB	1:B:172:SER:HB3	1.83	0.59
1:B:725:GLU:OE2	1:B:1064:HIS:NE2	2.35	0.59
1:A:418:ILE:HA	1:A:422:ASN:HD22	1.65	0.59
1:A:765:ARG:HD3	1:C:957:GLN:OE1	2.01	0.59
1:A:1105:THR:HG23	1:A:1111:GLU:H	1.67	0.59
1:A:699:LEU:HD11	1:B:869:MET:HB3	1.83	0.59
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.84	0.59
1:C:104:TRP:H	1:C:119:ILE:HB	1.67	0.59
1:C:884:SER:HB3	1:C:887:THR:HB	1.84	0.59
1:A:727:LEU:HD21	1:A:1028:LYS:HD2	1.82	0.59
1:A:1012:LEU:HB3	1:C:1013:ILE:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:LYS:HG2	1:B:664:ILE:HD11	1.84	0.59
1:C:120:VAL:HB	1:C:127:VAL:HB	1.85	0.59
1:C:310:LYS:HG3	1:C:600:PRO:HA	1.83	0.59
1:B:866:THR:H	1:B:869:MET:HE3	1.68	0.59
1:A:564:GLN:OE1	1:A:577:ARG:NH2	2.36	0.59
1:B:417:ASN:O	1:B:421:TYR:HB2	2.02	0.59
1:C:616:ASN:OD1	1:C:644:GLN:NE2	2.35	0.59
1:B:314:GLN:HE22	1:B:594:GLY:HA3	1.66	0.59
1:C:746:SER:O	1:C:750:SER:OG	2.19	0.59
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.83	0.59
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.84	0.59
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.83	0.59
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.84	0.59
1:B:189:LEU:HD22	1:B:210:ILE:HD13	1.84	0.59
1:C:708:SER:HB3	1:C:711:SER:HB3	1.85	0.59
1:C:452:LEU:HB3	1:C:492:LEU:HD11	1.85	0.59
1:C:971:GLY:O	1:C:995:ARG:NH1	2.36	0.59
1:A:357:ARG:NH2	1:A:394:ASN:OD1	2.36	0.59
1:C:564:GLN:HA	1:C:577:ARG:HD2	1.84	0.59
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.85	0.59
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.36	0.59
1:A:946:GLY:HA2	1:A:949:GLN:HB3	1.84	0.59
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.84	0.59
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.85	0.59
1:B:54:LEU:HB2	1:B:195:LYS:HE2	1.83	0.59
1:B:316:SER:OG	1:B:317:ASN:N	2.35	0.59
1:C:983:ARG:HG3	1:C:984:LEU:HD23	1.83	0.59
1:C:312:ILE:HD13	1:C:598:ILE:HG13	1.84	0.59
1:B:749:CYS:O	1:B:753:LEU:HB2	2.03	0.59
1:B:727:LEU:HD21	1:B:1028:LYS:HD3	1.83	0.59
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.36	0.59
1:A:293:LEU:HD23	1:A:294:ASP:HB2	1.82	0.59
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.84	0.59
1:A:727:LEU:HD21	1:A:1028:LYS:HD2	1.83	0.59
1:A:858:LEU:HD11	1:A:962:LEU:HD22	1.84	0.59
1:B:126:VAL:HB	1:B:172:SER:HB3	1.85	0.59
1:A:1010:GLN:OE1	1:A:1014:ARG:NH1	2.36	0.59
1:A:997:ILE:O	1:A:1001:LEU:HB2	2.02	0.59
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.85	0.59
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.85	0.59
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:108:THR:O	1:B:237:ARG:NH2	2.35	0.59
1:A:969:ASN:OD1	1:B:755:GLN:NE2	2.36	0.59
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.85	0.59
1:A:727:LEU:HD11	1:A:1024:LEU:HD22	1.84	0.59
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.36	0.59
1:C:37:TYR:OH	1:C:195:LYS:NZ	2.35	0.59
1:B:729:VAL:O	1:B:777:ASN:ND2	2.36	0.59
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.51	0.59
1:A:108:THR:HA	1:A:236:THR:H	1.68	0.59
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.84	0.59
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.85	0.59
1:C:128:ILE:HG21	1:C:229:LEU:HD21	1.83	0.59
1:B:92:PHE:HE1	1:B:94:SER:HB2	1.68	0.59
1:A:201:PHE:HB3	1:A:229:LEU:HB2	1.83	0.59
1:A:299:THR:HG22	1:A:597:VAL:HG11	1.83	0.59
1:C:329:PHE:H	1:C:529:LYS:HD3	1.67	0.59
1:B:777:ASN:HB3	1:B:1019:ARG:HH21	1.68	0.59
1:A:774:GLN:HE22	1:A:1018:ILE:HD11	1.68	0.59
1:B:87:ASN:OD1	1:B:88:ASP:N	2.35	0.59
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.50	0.59
1:A:665:PRO:HB2	1:B:864:LEU:HD11	1.85	0.59
1:B:353:TRP:HE1	1:B:355:ARG:HH21	1.51	0.59
1:C:105:ILE:HG13	1:C:241:LEU:HD21	1.85	0.59
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.51	0.59
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.85	0.59
1:B:310:LYS:NZ	1:B:663:ASP:OD1	2.32	0.59
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.85	0.59
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.84	0.59
1:B:396:TYR:HB2	1:B:514:SER:HB2	1.82	0.59
1:C:975:SER:O	1:C:1000:ARG:NH2	2.35	0.59
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.84	0.59
1:B:396:TYR:HB2	1:B:514:SER:HB2	1.84	0.59
1:C:273:ARG:HD3	1:C:292:ALA:HB3	1.85	0.59
1:A:825:LYS:HB3	1:A:945:LEU:HD21	1.84	0.58
1:B:106:PHE:HD2	1:B:117:LEU:HD22	1.68	0.58
1:B:1115:ILE:HG22	1:B:1137:VAL:HG13	1.84	0.58
1:A:370:ASN:OD1	1:C:487:ASN:ND2	2.36	0.58
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.85	0.58
1:B:95:THR:HG22	1:B:189:LEU:HD11	1.85	0.58
1:A:969:ASN:HD21	1:B:755:GLN:HG2	1.68	0.58
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:992:GLN:HG2	1:C:995:ARG:HH21	1.68	0.58
1:C:1019:ARG:O	1:C:1023:ASN:ND2	2.31	0.58
1:A:971:GLY:H	1:B:755:GLN:HE22	1.51	0.58
1:C:1019:ARG:O	1:C:1023:ASN:ND2	2.32	0.58
1:B:557:LYS:NZ	1:B:574:ASP:OD2	2.37	0.58
1:C:314:GLN:NE2	1:C:316:SER:O	2.36	0.58
1:B:362:VAL:HG21	1:B:526:GLY:H	1.68	0.58
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.85	0.58
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.85	0.58
1:A:108:THR:O	1:A:237:ARG:NH1	2.35	0.58
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.85	0.58
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.83	0.58
1:B:48:LEU:HB3	1:B:276:LEU:HD11	1.85	0.58
1:C:69:HIS:O	1:C:77:LYS:N	2.37	0.58
1:A:1084:ASP:OD2	1:A:1086:LYS:NZ	2.36	0.58
1:C:784:GLN:HE21	1:C:1029:MET:HG3	1.66	0.58
1:C:108:THR:O	1:C:237:ARG:NH2	2.36	0.58
1:C:310:LYS:HG3	1:C:600:PRO:HA	1.84	0.58
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.36	0.58
1:C:126:VAL:HG21	1:C:226:LEU:HD21	1.86	0.58
1:C:889:GLY:HA3	1:C:1034:LEU:HD21	1.84	0.58
1:B:1031:GLU:HG3	1:B:1037:SER:HB2	1.85	0.58
1:A:992:GLN:OE1	1:A:995:ARG:NH2	2.36	0.58
1:B:747:THR:O	1:B:751:ASN:ND2	2.36	0.58
1:A:759:PHE:HA	1:A:762:GLN:HG3	1.86	0.58
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.85	0.58
1:A:317:ASN:ND2	1:B:737:ASP:OD1	2.36	0.58
1:C:729:VAL:HG21	1:C:781:VAL:HG11	1.84	0.58
1:A:726:ILE:HG12	1:A:1061:VAL:HG22	1.86	0.58
1:A:866:THR:H	1:A:869:MET:HE2	1.67	0.58
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.37	0.58
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.86	0.58
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.86	0.58
1:A:295:PRO:HA	1:A:298:GLU:HG2	1.85	0.58
1:A:1019:ARG:NH1	1:C:1017:GLU:OE2	2.36	0.58
1:B:328:ARG:NH2	1:B:531:THR:O	2.36	0.58
1:B:1010:GLN:HE22	1:B:1014:ARG:HE	1.52	0.58
1:B:1118:ASP:OD1	1:B:1118:ASP:N	2.36	0.58
1:B:353:TRP:HE1	1:B:355:ARG:HH21	1.51	0.58
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.36	0.58
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:SER:HB3	1:A:34:ARG:HB2	1.86	0.58
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.37	0.58
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.85	0.58
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.86	0.58
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.36	0.58
1:B:992:GLN:HE21	1:B:995:ARG:HD3	1.68	0.58
1:A:271:GLN:HE22	1:A:273:ARG:HD3	1.69	0.58
1:A:761:THR:O	1:A:765:ARG:HG2	2.03	0.58
1:A:1091:ARG:NH2	1:A:1118:ASP:O	2.37	0.58
1:B:189:LEU:HD22	1:B:210:ILE:HD13	1.84	0.58
1:A:291:CYS:HB2	1:A:298:GLU:HA	1.86	0.58
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.85	0.58
1:A:784:GLN:NE2	1:C:1041:ASP:OD2	2.36	0.58
1:B:702:GLU:HG2	1:C:788:ILE:HD11	1.86	0.58
1:A:92:PHE:HB2	1:A:192:PHE:HB2	1.86	0.58
1:A:567:ARG:HD3	1:A:571:ASP:HA	1.85	0.58
1:B:173:GLN:NE2	1:B:174:PRO:O	2.36	0.58
1:C:33:THR:OG1	1:C:219:GLY:O	2.21	0.58
1:A:878:LEU:HD21	1:A:1054:GLN:HE22	1.69	0.58
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.84	0.58
1:C:396:TYR:HB2	1:C:514:SER:HB3	1.85	0.58
1:C:473:TYR:H	1:C:491:PRO:HD3	1.68	0.58
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.69	0.58
1:A:1120:THR:OG1	1:A:1121:PHE:N	2.36	0.58
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.85	0.58
1:B:815:ARG:HG3	1:B:819:GLU:HB2	1.86	0.58
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.37	0.58
1:A:790:LYS:HE2	1:C:704:SER:HB2	1.86	0.58
1:B:424:LYS:HD2	1:B:463:PRO:HG3	1.86	0.58
1:A:1005:GLN:NE2	1:C:1002:GLN:OE1	2.37	0.58
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.85	0.58
1:B:310:LYS:HG2	1:B:664:ILE:HD11	1.85	0.58
1:B:784:GLN:HE21	1:B:1029:MET:HG3	1.69	0.58
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.85	0.58
1:B:1014:ARG:HA	1:B:1017:GLU:HG3	1.84	0.58
1:C:17:ASN:HB2	1:C:21:ARG:HD3	1.84	0.58
1:B:141:LEU:HD23	1:B:159:VAL:HG21	1.85	0.58
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.86	0.58
1:B:18:PHE:HB2	1:B:21:ARG:HB2	1.85	0.58
1:A:569:ILE:O	1:B:964:LYS:NZ	2.37	0.58
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:767:LEU:HA	1:A:770:ILE:HD12	1.84	0.58
1:C:984:LEU:HD12	1:C:989:ALA:HA	1.86	0.58
1:C:31:SER:HB2	1:C:34:ARG:HB2	1.85	0.58
1:C:299:THR:HG22	1:C:597:VAL:HG11	1.86	0.58
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.85	0.58
1:C:316:SER:OG	1:C:317:ASN:N	2.37	0.58
1:C:337:PRO:HG3	1:C:356:LYS:HD3	1.86	0.58
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.86	0.58
1:C:915:VAL:O	1:C:919:ASN:ND2	2.37	0.57
1:C:1091:ARG:NH2	1:C:1120:THR:O	2.37	0.57
1:A:733:LYS:HD2	1:A:771:ALA:HB1	1.86	0.57
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.85	0.57
1:A:735:SER:HB3	1:A:861:LEU:HD21	1.86	0.57
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.85	0.57
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.38	0.57
1:A:43:PHE:H	1:C:566:GLY:HA2	1.68	0.57
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.86	0.57
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.36	0.57
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.86	0.57
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.86	0.57
1:C:328:ARG:HH22	1:C:533:LEU:N	2.01	0.57
1:A:1031:GLU:HB3	1:A:1037:SER:HB3	1.86	0.57
1:C:887:THR:HG21	1:C:894:LEU:HG	1.86	0.57
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.86	0.57
1:B:312:ILE:HD11	1:B:596:SER:HB3	1.84	0.57
1:C:984:LEU:HD12	1:C:988:GLU:HB2	1.84	0.57
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.86	0.57
1:C:731:MET:HE1	1:C:1014:ARG:HB3	1.86	0.57
1:C:784:GLN:HE21	1:C:1029:MET:HG3	1.68	0.57
1:C:725:GLU:OE2	1:C:1064:HIS:NE2	2.38	0.57
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.86	0.57
1:B:950:ASP:OD2	1:B:954:GLN:NE2	2.37	0.57
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.86	0.57
1:C:905:ARG:NH1	1:C:1049:LEU:O	2.37	0.57
1:B:711:SER:OG	1:C:895:GLN:OE1	2.22	0.57
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.85	0.57
1:C:126:VAL:H	1:C:172:SER:HB3	1.69	0.57
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.69	0.57
1:B:311:GLY:HA2	1:B:664:ILE:HD12	1.86	0.57
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.86	0.57
1:C:555:SER:HB2	1:C:586:ASP:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:897:PRO:HG2	1:A:900:MET:HG2	1.87	0.57
1:B:396:TYR:HB2	1:B:514:SER:HB2	1.86	0.57
1:B:732:THR:OG1	1:B:955:ASN:ND2	2.37	0.57
1:C:93:ALA:HB3	1:C:266:TYR:HB2	1.86	0.57
1:B:314:GLN:HE22	1:B:594:GLY:HA3	1.68	0.57
1:A:699:LEU:HB3	1:B:788:ILE:HD11	1.85	0.57
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.86	0.57
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.85	0.57
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.87	0.57
1:C:1051:SER:OG	1:C:1064:HIS:ND1	2.32	0.57
1:B:316:SER:OG	1:B:317:ASN:N	2.38	0.57
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.87	0.57
1:C:40:ASP:OD1	1:C:41:LYS:N	2.35	0.57
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.84	0.57
1:A:201:PHE:HB3	1:A:229:LEU:HB2	1.85	0.57
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.86	0.57
1:C:645:THR:HG23	1:C:647:ALA:H	1.67	0.57
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.86	0.57
1:A:726:ILE:HG23	1:A:1061:VAL:HG12	1.86	0.57
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.87	0.57
1:C:742:ILE:O	1:C:1000:ARG:NH1	2.37	0.57
1:C:1105:THR:HG23	1:C:1111:GLU:H	1.69	0.57
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.86	0.57
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.87	0.57
1:A:790:LYS:NZ	1:C:702:GLU:OE1	2.37	0.57
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.37	0.57
1:C:726:ILE:HG23	1:C:947:LYS:HE2	1.85	0.57
1:A:957:GLN:OE1	1:B:765:ARG:NH2	2.36	0.57
1:A:120:VAL:HB	1:A:127:VAL:HB	1.86	0.57
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.86	0.57
1:A:1006:THR:OG1	1:B:1005:GLN:OE1	2.21	0.57
1:C:708:SER:HB3	1:C:711:SER:HB3	1.87	0.57
1:C:40:ASP:OD1	1:C:41:LYS:N	2.36	0.57
1:A:90:VAL:HG11	1:A:238:PHE:HE2	1.69	0.57
1:A:819:GLU:HA	1:A:822:LEU:HG	1.87	0.57
1:A:971:GLY:H	1:B:755:GLN:HE22	1.50	0.57
1:C:983:ARG:HG3	1:C:984:LEU:HD23	1.87	0.57
1:C:394:ASN:HB2	1:C:516:GLU:HB3	1.87	0.57
1:A:120:VAL:HB	1:A:127:VAL:HB	1.86	0.57
1:C:552:LEU:HB3	1:C:585:LEU:HD23	1.86	0.57
1:C:350:VAL:O	1:C:466:ARG:NH2	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:SER:OG	1:A:317:ASN:N	2.37	0.57
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.87	0.57
1:C:96:GLU:OE1	1:C:99:ASN:ND2	2.34	0.57
1:A:901:GLN:OE1	1:A:905:ARG:NH2	2.37	0.57
1:B:278:LYS:HD3	1:B:287:ASP:HB3	1.86	0.57
1:A:341:VAL:HG11	1:A:356:LYS:HG3	1.86	0.57
1:A:796:ASP:OD2	1:C:709:ASN:ND2	2.36	0.57
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.23	0.57
1:B:773:GLU:OE1	1:B:1019:ARG:NE	2.38	0.57
1:C:879:ALA:O	1:C:883:THR:OG1	2.18	0.57
1:A:984:LEU:HD11	1:A:988:GLU:HB2	1.85	0.57
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.87	0.57
1:A:901:GLN:OE1	1:A:905:ARG:NH2	2.35	0.57
1:A:826:VAL:HG22	1:A:945:LEU:HD13	1.87	0.57
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.87	0.57
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.87	0.57
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.86	0.57
1:A:108:THR:HA	1:A:236:THR:H	1.69	0.57
1:A:784:GLN:HE21	1:A:1029:MET:HG3	1.68	0.57
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.87	0.57
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.86	0.57
1:A:866:THR:OG1	1:A:869:MET:SD	2.63	0.57
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.86	0.57
1:C:802:PHE:HB3	1:C:806:LEU:HD23	1.86	0.57
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.85	0.57
1:C:742:ILE:O	1:C:1000:ARG:NH1	2.38	0.57
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.87	0.57
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.85	0.57
1:A:230:PRO:HB2	1:C:357:ARG:HH12	1.69	0.57
1:C:452:LEU:HB3	1:C:492:LEU:HD11	1.86	0.57
1:A:1120:THR:OG1	1:A:1121:PHE:N	2.38	0.57
1:C:767:LEU:HA	1:C:770:ILE:HG22	1.86	0.57
1:A:345:THR:O	1:A:509:ARG:NH2	2.38	0.57
1:B:767:LEU:HD21	1:B:1008:VAL:HG12	1.87	0.57
1:C:189:LEU:HD22	1:C:210:ILE:HD13	1.87	0.57
1:B:856:ASN:HD22	1:B:858:LEU:HD13	1.68	0.57
1:B:336:CYS:HB3	1:B:358:ILE:HD12	1.85	0.57
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.86	0.57
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.87	0.57
1:C:889:GLY:HA3	1:C:1034:LEU:HD21	1.86	0.57
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:99:ASN:O	1:C:102:ARG:NH1	2.38	0.56
1:C:17:ASN:HB2	1:C:21:ARG:HD3	1.86	0.56
1:C:34:ARG:HB3	1:C:91:TYR:HE1	1.68	0.56
1:C:99:ASN:O	1:C:102:ARG:NH1	2.38	0.56
1:C:560:LEU:HD23	1:C:562:PHE:H	1.70	0.56
1:B:408:ARG:HD2	1:B:409:GLN:HG3	1.86	0.56
1:C:394:ASN:HB2	1:C:516:GLU:HB3	1.87	0.56
1:A:826:VAL:HG23	1:A:945:LEU:HD22	1.87	0.56
1:C:310:LYS:HG3	1:C:600:PRO:HA	1.86	0.56
1:B:316:SER:OG	1:B:317:ASN:N	2.35	0.56
1:A:1005:GLN:NE2	1:C:1002:GLN:OE1	2.31	0.56
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.38	0.56
1:A:567:ARG:HD3	1:A:571:ASP:HA	1.86	0.56
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.87	0.56
1:A:609:ALA:HB2	1:A:692:ILE:HG21	1.86	0.56
1:A:1043:CYS:O	1:A:1064:HIS:ND1	2.38	0.56
1:A:345:THR:O	1:A:509:ARG:NH2	2.37	0.56
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.85	0.56
1:C:271:GLN:HG2	1:C:272:PRO:HD2	1.88	0.56
1:C:802:PHE:HB3	1:C:806:LEU:HD23	1.86	0.56
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.87	0.56
1:A:592:PHE:HZ	1:B:857:GLY:HA2	1.70	0.56
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.37	0.56
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.33	0.56
1:C:552:LEU:HB3	1:C:585:LEU:HD23	1.87	0.56
1:A:473:TYR:H	1:A:491:PRO:HD3	1.68	0.56
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.88	0.56
1:B:985:ASP:OD1	1:B:987:PRO:HD2	2.05	0.56
1:C:675:GLN:OE1	1:C:676:THR:N	2.39	0.56
1:B:312:ILE:HD13	1:B:598:ILE:HG13	1.85	0.56
1:B:403:ARG:NH2	1:B:406:GLU:OE2	2.39	0.56
1:B:971:GLY:HA3	1:B:995:ARG:HH22	1.69	0.56
1:A:15:CYS:O	1:A:137:ASN:ND2	2.39	0.56
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.87	0.56
1:C:742:ILE:O	1:C:1000:ARG:NH1	2.38	0.56
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.87	0.56
1:B:763:LEU:HD22	1:B:1004:LEU:HD21	1.87	0.56
1:C:277:LEU:HD11	1:C:285:ILE:HG12	1.87	0.56
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.69	0.56
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.86	0.56
1:A:92:PHE:HB2	1:A:192:PHE:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:742:ILE:O	1:A:1000:ARG:NH1	2.39	0.56
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.87	0.56
1:A:913:GLN:HE21	1:C:1089:PHE:HB3	1.70	0.56
1:C:763:LEU:HD12	1:C:1008:VAL:HG11	1.87	0.56
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.88	0.56
1:A:742:ILE:HD12	1:A:753:LEU:HD21	1.87	0.56
1:C:316:SER:OG	1:C:317:ASN:N	2.37	0.56
1:A:737:ASP:OD2	1:C:317:ASN:ND2	2.37	0.56
1:B:952:VAL:HA	1:B:955:ASN:HD21	1.70	0.56
1:A:963:VAL:HG21	1:C:570:ALA:HB1	1.88	0.56
1:C:302:THR:HG21	1:C:315:THR:HB	1.88	0.56
1:A:1017:GLU:OE1	1:B:1019:ARG:NH1	2.39	0.56
1:C:93:ALA:HB3	1:C:266:TYR:HB2	1.86	0.56
1:A:271:GLN:HG2	1:A:272:PRO:HD2	1.87	0.56
1:B:424:LYS:HD2	1:B:463:PRO:HG3	1.87	0.56
1:A:200:TYR:HD1	1:A:202:LYS:HE3	1.70	0.56
1:B:1118:ASP:N	1:B:1118:ASP:OD1	2.38	0.56
1:C:720:ILE:HD11	1:C:927:PHE:HB2	1.85	0.56
1:B:185:ASN:ND2	1:B:211:ASN:OD1	2.39	0.56
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.88	0.56
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.86	0.56
1:B:53:ASP:OD1	1:B:195:LYS:NZ	2.38	0.56
1:A:645:THR:HG23	1:A:647:ALA:H	1.70	0.56
1:A:611:LEU:HD12	1:A:650:LEU:HD13	1.86	0.56
1:B:709:ASN:OD1	1:B:709:ASN:N	2.38	0.56
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.87	0.56
1:C:954:GLN:HA	1:C:957:GLN:HG3	1.87	0.56
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.52	0.56
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.86	0.56
1:B:92:PHE:HE1	1:B:94:SER:HB2	1.70	0.56
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.87	0.56
1:C:316:SER:OG	1:C:317:ASN:N	2.39	0.56
1:A:774:GLN:HA	1:A:777:ASN:HD21	1.71	0.56
1:B:552:LEU:HD22	1:B:585:LEU:HD12	1.86	0.56
1:C:912:THR:HG22	1:C:914:ASN:H	1.71	0.56
1:B:357:ARG:HD3	1:B:394:ASN:HD21	1.70	0.56
1:B:589:PRO:HG2	1:C:855:PHE:HB3	1.88	0.56
1:C:726:ILE:HD12	1:C:1061:VAL:HG22	1.88	0.56
1:B:38:TYR:HE2	1:B:224:GLU:HG3	1.71	0.56
1:A:346:ARG:HH12	1:A:442:ASP:HA	1.70	0.56
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:329:PHE:HD2	1:A:330:PRO:HD2	1.71	0.56
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.88	0.56
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.37	0.56
1:C:897:PRO:HG2	1:C:900:MET:HB2	1.87	0.56
1:C:452:LEU:HD13	1:C:492:LEU:HD21	1.88	0.56
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.88	0.56
1:B:38:TYR:HE2	1:B:224:GLU:HG3	1.71	0.56
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.88	0.56
1:A:971:GLY:O	1:A:995:ARG:NH1	2.38	0.56
1:B:126:VAL:HB	1:B:172:SER:HB3	1.88	0.56
1:A:729:VAL:HG11	1:A:781:VAL:HG11	1.88	0.56
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.87	0.56
1:B:40:ASP:OD1	1:B:41:LYS:N	2.38	0.56
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.86	0.56
1:C:777:ASN:HD21	1:C:1019:ARG:HG2	1.70	0.56
1:B:1086:LYS:HE2	1:B:1122:VAL:HG21	1.87	0.56
1:B:878:LEU:HD21	1:B:1054:GLN:HE22	1.71	0.56
1:C:560:LEU:HD23	1:C:562:PHE:H	1.70	0.56
1:A:727:LEU:HD12	1:A:1025:ALA:HB2	1.88	0.56
1:A:1006:THR:OG1	1:B:1005:GLN:OE1	2.23	0.56
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.87	0.56
1:B:316:SER:OG	1:B:317:ASN:N	2.39	0.56
1:A:189:LEU:HD23	1:A:210:ILE:HD13	1.86	0.56
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.38	0.56
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.39	0.56
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.86	0.56
1:A:43:PHE:H	1:C:566:GLY:HA2	1.71	0.56
1:A:983:ARG:NH1	1:C:429:PHE:O	2.39	0.56
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.88	0.56
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.88	0.56
1:C:802:PHE:HE2	1:C:882:ILE:HD13	1.69	0.56
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.88	0.56
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.86	0.56
1:B:1052:PHE:HB2	1:B:1063:LEU:HB2	1.88	0.56
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.88	0.56
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.39	0.56
1:A:48:LEU:HB3	1:A:276:LEU:HD11	1.88	0.56
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.39	0.56
1:B:747:THR:O	1:B:751:ASN:ND2	2.39	0.56
1:A:946:GLY:HA2	1:A:949:GLN:HB2	1.88	0.56
1:B:201:PHE:HB3	1:B:229:LEU:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.70	0.56
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.88	0.56
1:A:784:GLN:HG2	1:A:1034:LEU:HD11	1.88	0.56
1:C:1002:GLN:O	1:C:1005:GLN:NE2	2.39	0.56
1:B:985:ASP:OD1	1:B:987:PRO:HD2	2.06	0.56
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.39	0.56
1:A:857:GLY:HA2	1:C:592:PHE:HZ	1.71	0.56
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.88	0.56
1:B:914:ASN:ND2	1:B:1111:GLU:OE2	2.40	0.56
1:C:330:PRO:O	1:C:529:LYS:NZ	2.37	0.56
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.88	0.56
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.88	0.56
1:C:31:SER:HB3	1:C:34:ARG:HB2	1.88	0.55
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.21	0.55
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.88	0.55
1:B:201:PHE:HB3	1:B:229:LEU:HB2	1.87	0.55
1:A:645:THR:HG23	1:A:647:ALA:H	1.71	0.55
1:C:914:ASN:OD1	1:C:914:ASN:N	2.39	0.55
1:C:92:PHE:HE2	1:C:94:SER:HB2	1.71	0.55
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.89	0.55
1:C:806:LEU:HD12	1:C:807:PRO:HD2	1.88	0.55
1:C:984:LEU:HB3	1:C:988:GLU:HG2	1.88	0.55
1:A:569:ILE:O	1:B:964:LYS:NZ	2.38	0.55
1:C:57:PRO:HG3	1:C:273:ARG:HG3	1.87	0.55
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.39	0.55
1:A:317:ASN:ND2	1:B:737:ASP:OD1	2.39	0.55
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.21	0.55
1:B:763:LEU:HD12	1:B:1008:VAL:HG11	1.88	0.55
1:C:362:VAL:HG21	1:C:524:VAL:HB	1.89	0.55
1:C:722:VAL:HG22	1:C:1065:VAL:HG12	1.88	0.55
1:B:396:TYR:HB2	1:B:514:SER:HB2	1.88	0.55
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.88	0.55
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.88	0.55
1:A:740:MET:HG3	1:C:319:ARG:HH22	1.71	0.55
1:C:57:PRO:HG3	1:C:273:ARG:HD2	1.88	0.55
1:B:737:ASP:OD1	1:B:737:ASP:N	2.36	0.55
1:B:296:LEU:HB2	1:B:608:VAL:HG21	1.88	0.55
1:A:755:GLN:NE2	1:C:969:ASN:OD1	2.38	0.55
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.88	0.55
1:A:975:SER:O	1:A:1000:ARG:NH2	2.40	0.55
1:B:295:PRO:HA	1:B:298:GLU:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:902:MET:HB2	1:C:916:LEU:HD11	1.86	0.55
1:B:570:ALA:HB1	1:C:963:VAL:HG11	1.88	0.55
1:C:316:SER:OG	1:C:317:ASN:N	2.39	0.55
1:B:749:CYS:O	1:B:753:LEU:HB3	2.06	0.55
1:A:31:SER:HB3	1:A:34:ARG:HB2	1.89	0.55
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.87	0.55
1:B:139:PRO:HG2	1:B:245:HIS:HE1	1.72	0.55
1:C:732:THR:HG23	1:C:955:ASN:HD22	1.71	0.55
1:A:51:THR:HG22	1:A:277:LEU:HD11	1.88	0.55
1:A:869:MET:HG2	1:C:699:LEU:HD21	1.88	0.55
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.88	0.55
1:B:95:THR:HG22	1:B:189:LEU:HD11	1.88	0.55
1:B:323:THR:OG1	1:B:324:GLU:OE1	2.22	0.55
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.35	0.55
1:A:345:THR:O	1:A:509:ARG:NH2	2.40	0.55
1:A:663:ASP:OD2	1:A:664:ILE:N	2.38	0.55
1:C:957:GLN:O	1:C:961:THR:OG1	2.17	0.55
1:A:735:SER:HB3	1:A:861:LEU:HD21	1.86	0.55
1:C:310:LYS:HG3	1:C:600:PRO:HA	1.88	0.55
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.37	0.55
1:B:312:ILE:HD13	1:B:598:ILE:HG13	1.89	0.55
1:C:905:ARG:HB3	1:C:1049:LEU:HD22	1.89	0.55
1:B:411:ALA:HB3	1:B:414:GLN:HG2	1.89	0.55
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.55	0.55
1:B:83:VAL:HG13	1:B:239:GLN:HE22	1.72	0.55
1:C:312:ILE:HG22	1:C:664:ILE:HD11	1.88	0.55
1:C:568:ASP:OD1	1:C:569:ILE:N	2.38	0.55
1:C:914:ASN:ND2	1:C:1111:GLU:OE1	2.39	0.55
1:B:1130:ILE:HD11	1:C:920:GLN:HE22	1.71	0.55
1:A:879:ALA:O	1:A:883:THR:OG1	2.23	0.55
1:C:108:THR:O	1:C:237:ARG:NH2	2.39	0.55
1:C:851:CYS:HA	1:C:854:LYS:HE3	1.89	0.55
1:B:362:VAL:HG21	1:B:526:GLY:H	1.71	0.55
1:A:564:GLN:OE1	1:A:577:ARG:NE	2.38	0.55
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.39	0.55
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.87	0.55
1:B:314:GLN:HE22	1:B:594:GLY:HA3	1.72	0.55
1:A:108:THR:OG1	1:A:234:ASN:O	2.24	0.55
1:C:726:ILE:HD11	1:C:1061:VAL:HG22	1.89	0.55
1:A:895:GLN:NE2	1:C:711:SER:OG	2.39	0.55
1:C:310:LYS:HG2	1:C:664:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:THR:OG1	1:A:234:ASN:O	2.24	0.55
1:A:1013:ILE:HD13	1:B:1012:LEU:HD11	1.88	0.55
1:B:53:ASP:OD1	1:B:54:LEU:N	2.38	0.55
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.06	0.55
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.89	0.55
1:C:767:LEU:HA	1:C:770:ILE:HG22	1.88	0.55
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.39	0.55
1:C:552:LEU:HB3	1:C:585:LEU:HD23	1.89	0.55
1:C:126:VAL:H	1:C:172:SER:HB3	1.72	0.55
1:A:645:THR:HG23	1:A:647:ALA:H	1.72	0.55
1:B:310:LYS:HG2	1:B:664:ILE:HD11	1.88	0.55
1:A:310:LYS:NZ	1:A:663:ASP:OD1	2.31	0.55
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.87	0.55
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.87	0.55
1:A:383:SER:HA	1:C:487:ASN:HD22	1.72	0.55
1:C:85:PRO:HA	1:C:237:ARG:HG3	1.87	0.55
1:A:676:THR:HA	1:A:690:GLN:HG2	1.89	0.55
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.88	0.55
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.89	0.55
1:B:48:LEU:O	1:B:304:LYS:NZ	2.39	0.55
1:C:299:THR:HG22	1:C:597:VAL:HG11	1.89	0.55
1:C:316:SER:OG	1:C:317:ASN:N	2.40	0.55
1:B:1052:PHE:HB2	1:B:1063:LEU:HB2	1.88	0.55
1:C:729:VAL:HG22	1:C:1059:GLY:HA2	1.88	0.55
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.89	0.55
1:A:294:ASP:N	1:A:294:ASP:OD2	2.40	0.55
1:B:782:PHE:HB3	1:B:873:TYR:HD2	1.71	0.55
1:B:731:MET:H	1:B:774:GLN:NE2	2.05	0.55
1:A:869:MET:HG2	1:C:699:LEU:HD21	1.88	0.55
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.87	0.55
1:B:1019:ARG:NH1	1:B:1023:ASN:OD1	2.40	0.55
1:B:715:PRO:HD3	1:C:894:LEU:HD21	1.88	0.55
1:B:617:CYS:N	1:B:649:CYS:SG	2.78	0.55
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.88	0.55
1:A:733:LYS:HE3	1:A:771:ALA:HB1	1.88	0.55
1:A:295:PRO:HG2	1:A:608:VAL:HG11	1.87	0.55
1:A:767:LEU:HA	1:A:770:ILE:HG22	1.88	0.55
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.88	0.55
1:A:473:TYR:H	1:A:491:PRO:HD3	1.72	0.55
1:B:473:TYR:H	1:B:491:PRO:HG2	1.72	0.55
1:A:730:SER:HB2	1:A:774:GLN:HE21	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:552:LEU:HB3	1:A:585:LEU:HD23	1.89	0.55
1:A:564:GLN:OE1	1:A:577:ARG:NH2	2.40	0.55
1:B:185:ASN:ND2	1:B:211:ASN:OD1	2.36	0.55
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.72	0.55
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.89	0.55
1:A:295:PRO:HG2	1:A:608:VAL:HG11	1.88	0.55
1:A:983:ARG:HD3	1:C:430:THR:HG22	1.89	0.55
1:A:749:CYS:HB2	1:A:993:ILE:HD11	1.88	0.55
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.88	0.55
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.89	0.55
1:A:563:GLN:O	1:A:577:ARG:NH2	2.38	0.55
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.89	0.55
1:A:975:SER:O	1:A:1000:ARG:NH2	2.40	0.55
1:A:92:PHE:HE1	1:A:265:TYR:HB2	1.70	0.55
1:A:733:LYS:NZ	1:A:862:PRO:O	2.40	0.55
1:C:53:ASP:OD1	1:C:54:LEU:N	2.38	0.55
1:A:53:ASP:OD2	1:A:54:LEU:N	2.40	0.55
1:A:1052:PHE:HB2	1:A:1063:LEU:HB2	1.89	0.55
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.88	0.55
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.88	0.55
1:C:726:ILE:HG22	1:C:1061:VAL:HG22	1.88	0.55
1:B:104:TRP:HB2	1:B:106:PHE:HE1	1.72	0.55
1:C:731:MET:HG2	1:C:774:GLN:HE21	1.72	0.55
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.40	0.55
1:B:676:THR:HA	1:B:690:GLN:HG2	1.89	0.55
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.88	0.55
1:A:983:ARG:HD3	1:A:984:LEU:HD23	1.89	0.55
1:B:106:PHE:HB3	1:B:235:ILE:HD13	1.88	0.55
1:A:645:THR:HG23	1:A:647:ALA:H	1.71	0.55
1:A:913:GLN:HE21	1:C:1089:PHE:HB3	1.72	0.55
1:B:396:TYR:HB2	1:B:514:SER:HB3	1.89	0.55
1:A:201:PHE:HB3	1:A:229:LEU:HB2	1.89	0.55
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.72	0.55
1:B:328:ARG:NH1	1:B:580:GLN:OE1	2.40	0.55
1:C:99:ASN:O	1:C:102:ARG:NH1	2.35	0.55
1:B:389:ASP:OD1	1:B:389:ASP:N	2.40	0.55
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.88	0.55
1:C:954:GLN:HA	1:C:957:GLN:HG3	1.88	0.55
1:A:913:GLN:HE22	1:C:1090:PRO:HD2	1.71	0.55
1:A:784:GLN:HG2	1:A:1034:LEU:HD11	1.89	0.55
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1015:ALA:O	1:C:1019:ARG:HB3	2.07	0.55
1:C:1139:ASP:HB3	1:C:1142:GLN:HG2	1.89	0.55
1:A:108:THR:OG1	1:A:234:ASN:O	2.25	0.54
1:A:345:THR:O	1:A:509:ARG:NH2	2.41	0.54
1:A:592:PHE:HZ	1:B:857:GLY:HA2	1.72	0.54
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.90	0.54
1:A:230:PRO:HB2	1:C:357:ARG:HH12	1.72	0.54
1:A:975:SER:O	1:A:1000:ARG:NH2	2.40	0.54
1:A:866:THR:OG1	1:A:869:MET:SD	2.62	0.54
1:B:985:ASP:OD1	1:B:987:PRO:HD2	2.07	0.54
1:B:992:GLN:OE1	1:B:995:ARG:NH2	2.40	0.54
1:C:394:ASN:HB2	1:C:516:GLU:HB3	1.89	0.54
1:C:722:VAL:HG12	1:C:930:ALA:HB1	1.90	0.54
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.90	0.54
1:B:337:PRO:HD2	1:B:358:ILE:HD13	1.88	0.54
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.40	0.54
1:A:100:ILE:HG23	1:A:247:SER:HB3	1.89	0.54
1:A:569:ILE:O	1:B:964:LYS:NZ	2.39	0.54
1:C:193:VAL:HB	1:C:204:TYR:HD2	1.71	0.54
1:C:1049:LEU:HB2	1:C:1065:VAL:HG23	1.88	0.54
1:C:126:VAL:HG21	1:C:226:LEU:HD21	1.88	0.54
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.88	0.54
1:A:357:ARG:NH2	1:A:394:ASN:OD1	2.40	0.54
1:C:105:ILE:HG13	1:C:241:LEU:HD21	1.90	0.54
1:C:314:GLN:NE2	1:C:316:SER:O	2.41	0.54
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.88	0.54
1:C:140:PHE:HA	1:C:246:ILE:HG12	1.87	0.54
1:A:1102:TRP:HD1	1:A:1135:ASN:HD22	1.56	0.54
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.89	0.54
1:C:802:PHE:HB3	1:C:806:LEU:HD23	1.89	0.54
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.40	0.54
1:C:345:THR:O	1:C:509:ARG:NH2	2.40	0.54
1:C:126:VAL:HG21	1:C:226:LEU:HD21	1.89	0.54
1:C:567:ARG:HD3	1:C:571:ASP:HA	1.89	0.54
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.89	0.54
1:B:709:ASN:ND2	1:C:796:ASP:OD2	2.35	0.54
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.89	0.54
1:C:731:MET:HB3	1:C:774:GLN:HE22	1.71	0.54
1:A:1052:PHE:HB2	1:A:1063:LEU:HB2	1.90	0.54
1:A:971:GLY:O	1:A:995:ARG:NH1	2.38	0.54
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1012:LEU:HB3	1:C:1013:ILE:HG21	1.89	0.54
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.90	0.54
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.90	0.54
1:A:383:SER:HB2	1:A:386:LYS:HG2	1.88	0.54
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.89	0.54
1:A:735:SER:HA	1:A:767:LEU:HD23	1.90	0.54
1:A:644:GLN:NE2	1:A:645:THR:O	2.39	0.54
1:A:560:LEU:HB2	1:A:563:GLN:HG3	1.89	0.54
1:A:197:ILE:HB	1:A:202:LYS:HZ1	1.72	0.54
1:B:707:TYR:HD2	1:C:792:PRO:HG3	1.72	0.54
1:A:784:GLN:HG2	1:A:1034:LEU:HD21	1.89	0.54
1:C:1010:GLN:OE1	1:C:1014:ARG:NH2	2.40	0.54
1:B:312:ILE:HD11	1:B:596:SER:HB2	1.90	0.54
1:C:1002:GLN:O	1:C:1005:GLN:NE2	2.40	0.54
1:A:983:ARG:HG3	1:A:984:LEU:HD23	1.90	0.54
1:A:902:MET:HE1	1:A:1049:LEU:HD13	1.88	0.54
1:A:909:ILE:O	1:A:1108:ASN:ND2	2.41	0.54
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.90	0.54
1:C:802:PHE:HE2	1:C:882:ILE:HD12	1.73	0.54
1:B:58:PHE:HB2	1:B:293:LEU:HD22	1.87	0.54
1:C:326:ILE:HG23	1:C:328:ARG:HE	1.72	0.54
1:C:452:LEU:HD23	1:C:492:LEU:HB3	1.90	0.54
1:B:907:ASN:OD1	1:B:913:GLN:NE2	2.40	0.54
1:B:1039:ARG:NE	1:C:1031:GLU:OE2	2.34	0.54
1:B:452:LEU:HD22	1:B:492:LEU:HD11	1.88	0.54
1:C:108:THR:O	1:C:237:ARG:NH2	2.41	0.54
1:C:190:ARG:NH2	1:C:205:SER:OG	2.40	0.54
1:A:1054:GLN:HB2	1:A:1061:VAL:HG22	1.90	0.54
1:C:984:LEU:HD13	1:C:988:GLU:HG2	1.90	0.54
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.88	0.54
1:C:555:SER:HB3	1:C:586:ASP:HB2	1.89	0.54
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.53	0.54
1:A:345:THR:O	1:A:509:ARG:NH2	2.41	0.54
1:A:971:GLY:H	1:B:755:GLN:NE2	2.05	0.54
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.89	0.54
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.90	0.54
1:C:763:LEU:HD22	1:C:1008:VAL:HG11	1.89	0.54
1:A:645:THR:HG23	1:A:647:ALA:H	1.73	0.54
1:A:869:MET:HG2	1:C:699:LEU:HD11	1.90	0.54
1:C:206:LYS:HB2	1:C:223:LEU:HA	1.89	0.54
1:B:973:ILE:HD13	1:B:983:ARG:HH12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.90	0.54
1:C:193:VAL:HB	1:C:204:TYR:HB2	1.88	0.54
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.40	0.54
1:C:767:LEU:HA	1:C:770:ILE:HG22	1.90	0.54
1:B:912:THR:HG22	1:B:914:ASN:H	1.73	0.54
1:C:851:CYS:HA	1:C:854:LYS:HE3	1.89	0.54
1:C:591:SER:HB3	1:C:615:VAL:HG12	1.88	0.54
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.89	0.54
1:C:108:THR:O	1:C:237:ARG:NH2	2.40	0.54
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.88	0.54
1:C:1010:GLN:HB3	1:C:1014:ARG:HH21	1.72	0.54
1:B:474:GLN:HG3	1:B:479:PRO:HA	1.89	0.54
1:C:915:VAL:HG11	1:C:1108:ASN:HB2	1.90	0.54
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.38	0.54
1:A:666:ILE:HG12	1:A:671:CYS:HA	1.90	0.54
1:A:912:THR:H	1:A:1106:GLN:HE22	1.55	0.54
1:B:749:CYS:O	1:B:753:LEU:CB	2.55	0.54
1:A:676:THR:HA	1:A:690:GLN:HG2	1.89	0.54
1:A:1005:GLN:NE2	1:C:1002:GLN:OE1	2.37	0.54
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.90	0.54
1:A:733:LYS:HE3	1:A:771:ALA:HB1	1.89	0.54
1:C:850:ILE:HG22	1:C:854:LYS:HE2	1.90	0.54
1:C:1102:TRP:HB2	1:C:1135:ASN:HD22	1.73	0.54
1:B:722:VAL:HG12	1:B:930:ALA:HB1	1.90	0.54
1:B:293:LEU:HD23	1:B:294:ASP:HB2	1.88	0.54
1:B:676:THR:HA	1:B:690:GLN:HG2	1.88	0.54
1:B:1116:THR:OG1	1:B:1118:ASP:OD1	2.24	0.54
1:A:765:ARG:NH1	1:C:957:GLN:OE1	2.40	0.54
1:A:914:ASN:OD1	1:C:1123:SER:OG	2.18	0.54
1:B:433:VAL:HA	1:B:512:VAL:HG12	1.89	0.54
1:B:466:ARG:HH22	1:C:233:ILE:HG22	1.73	0.54
1:B:956:ALA:O	1:B:960:ASN:HB2	2.07	0.54
1:B:616:ASN:OD1	1:B:644:GLN:NE2	2.41	0.54
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.90	0.54
1:C:473:TYR:H	1:C:491:PRO:HD3	1.72	0.54
1:C:773:GLU:HA	1:C:776:LYS:HE3	1.89	0.54
1:A:33:THR:OG1	1:A:219:GLY:O	2.22	0.54
1:B:971:GLY:H	1:C:755:GLN:HE22	1.56	0.54
1:B:796:ASP:N	1:B:796:ASP:OD2	2.40	0.54
1:C:314:GLN:NE2	1:C:595:VAL:O	2.41	0.54
1:C:902:MET:HB2	1:C:916:LEU:HD21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:742:ILE:O	1:C:1000:ARG:NH1	2.41	0.54
1:C:40:ASP:OD2	1:C:41:LYS:N	2.39	0.54
1:A:291:CYS:HB2	1:A:298:GLU:HA	1.90	0.54
1:A:328:ARG:NH1	1:A:531:THR:O	2.41	0.54
1:B:898:PHE:HA	1:B:901:GLN:HB3	1.89	0.54
1:B:617:CYS:N	1:B:649:CYS:SG	2.80	0.54
1:B:293:LEU:HD23	1:B:294:ASP:HB2	1.89	0.54
1:A:104:TRP:H	1:A:119:ILE:HB	1.73	0.54
1:A:278:LYS:NZ	1:A:287:ASP:OD2	2.37	0.54
1:A:739:THR:HA	1:A:753:LEU:HD11	1.89	0.54
1:A:729:VAL:HG22	1:A:1059:GLY:HA2	1.89	0.54
1:B:758:SER:O	1:B:761:THR:OG1	2.23	0.54
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.90	0.54
1:A:894:LEU:HD21	1:C:715:PRO:HD3	1.90	0.54
1:A:108:THR:OG1	1:A:234:ASN:O	2.25	0.54
1:B:277:LEU:HD22	1:B:285:ILE:HD13	1.90	0.54
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.90	0.54
1:C:117:LEU:HB2	1:C:233:ILE:HD11	1.89	0.54
1:C:902:MET:HB2	1:C:916:LEU:HD21	1.90	0.54
1:A:896:ILE:HD12	1:A:897:PRO:HD2	1.90	0.54
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.41	0.54
1:B:417:ASN:O	1:B:421:TYR:HB2	2.08	0.54
1:C:599:THR:HG22	1:C:608:VAL:HA	1.90	0.54
1:B:38:TYR:HE2	1:B:224:GLU:HG3	1.72	0.54
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.90	0.54
1:C:293:LEU:HD23	1:C:294:ASP:HB2	1.90	0.54
1:C:737:ASP:OD1	1:C:740:MET:N	2.25	0.54
1:C:796:ASP:OD1	1:C:796:ASP:N	2.40	0.54
1:B:762:GLN:HG3	1:B:765:ARG:HH22	1.73	0.54
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.89	0.54
1:B:312:ILE:HD13	1:B:598:ILE:HG13	1.90	0.54
1:C:108:THR:O	1:C:237:ARG:NH2	2.41	0.54
1:A:53:ASP:OD2	1:A:54:LEU:N	2.40	0.54
1:C:345:THR:O	1:C:509:ARG:NH2	2.41	0.54
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.90	0.54
1:A:289:VAL:HG11	1:A:300:LYS:HD2	1.88	0.54
1:B:328:ARG:HH12	1:B:533:LEU:HD22	1.72	0.54
1:A:1013:ILE:HG21	1:B:1012:LEU:HB3	1.90	0.54
1:A:108:THR:OG1	1:A:234:ASN:O	2.26	0.54
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.41	0.54
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:TYR:H	1:A:491:PRO:HD3	1.72	0.54
1:B:773:GLU:OE2	1:B:1019:ARG:NH2	2.40	0.54
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.89	0.54
1:A:825:LYS:NZ	1:A:938:LEU:O	2.32	0.54
1:A:971:GLY:O	1:A:995:ARG:NH1	2.41	0.54
1:B:720:ILE:HG22	1:B:926:GLN:HB3	1.90	0.54
1:C:902:MET:HB2	1:C:916:LEU:HD21	1.89	0.54
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.88	0.54
1:C:394:ASN:HB2	1:C:516:GLU:HB3	1.89	0.54
1:A:983:ARG:HG3	1:A:984:LEU:HD23	1.90	0.54
1:A:866:THR:H	1:A:869:MET:HE2	1.73	0.54
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.89	0.54
1:C:328:ARG:HE	1:C:580:GLN:HE21	1.56	0.54
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.36	0.53
1:A:770:ILE:O	1:A:774:GLN:HB2	2.08	0.53
1:B:311:GLY:HA2	1:B:664:ILE:HD12	1.89	0.53
1:C:316:SER:OG	1:C:317:ASN:N	2.41	0.53
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	1.89	0.53
1:B:915:VAL:O	1:B:919:ASN:HB2	2.08	0.53
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.42	0.53
1:A:329:PHE:HD2	1:A:528:LYS:HB3	1.71	0.53
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.88	0.53
1:C:813:SER:OG	1:C:868:GLU:OE2	2.26	0.53
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.89	0.53
1:C:819:GLU:HA	1:C:822:LEU:HG	1.89	0.53
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.90	0.53
1:A:476:GLY:H	1:A:487:ASN:HB3	1.73	0.53
1:C:546:LEU:HD11	1:C:576:VAL:HG11	1.88	0.53
1:C:120:VAL:HB	1:C:127:VAL:HB	1.90	0.53
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.89	0.53
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.89	0.53
1:C:718:PHE:HB2	1:C:1067:TYR:HE1	1.73	0.53
1:B:37:TYR:OH	1:B:195:LYS:NZ	2.37	0.53
1:B:1118:ASP:OD2	1:B:1118:ASP:N	2.38	0.53
1:B:822:LEU:HD23	1:B:1056:ALA:HB2	1.90	0.53
1:C:310:LYS:HG3	1:C:600:PRO:HA	1.91	0.53
1:C:909:ILE:HG13	1:C:911:VAL:HG23	1.91	0.53
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.89	0.53
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.41	0.53
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.89	0.53
1:B:850:ILE:HG23	1:B:860:VAL:HG11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:314:GLN:NE2	1:A:595:VAL:O	2.41	0.53
1:A:776:LYS:NZ	1:A:780:GLU:OE1	2.42	0.53
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.90	0.53
1:B:906:PHE:HB3	1:B:911:VAL:HB	1.90	0.53
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.42	0.53
1:A:733:LYS:HE3	1:A:771:ALA:HB1	1.90	0.53
1:A:1030:SER:HA	1:A:1034:LEU:HD23	1.90	0.53
1:A:108:THR:OG1	1:A:234:ASN:O	2.26	0.53
1:A:120:VAL:HB	1:A:127:VAL:HB	1.89	0.53
1:C:31:SER:HB3	1:C:34:ARG:HB2	1.90	0.53
1:B:1139:ASP:HB3	1:B:1142:GLN:HG2	1.90	0.53
1:C:889:GLY:HA3	1:C:1034:LEU:HD21	1.89	0.53
1:A:87:ASN:OD1	1:A:87:ASN:N	2.41	0.53
1:A:1120:THR:OG1	1:A:1121:PHE:N	2.41	0.53
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.90	0.53
1:C:120:VAL:HB	1:C:127:VAL:HB	1.90	0.53
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.90	0.53
1:A:473:TYR:H	1:A:491:PRO:HD3	1.73	0.53
1:B:119:ILE:HG12	1:B:128:ILE:HD12	1.91	0.53
1:C:850:ILE:HG22	1:C:854:LYS:HE2	1.90	0.53
1:C:953:ASN:O	1:C:957:GLN:HB2	2.08	0.53
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	1.91	0.53
1:B:985:ASP:OD1	1:B:987:PRO:HD2	2.08	0.53
1:A:742:ILE:O	1:A:1000:ARG:NH1	2.39	0.53
1:C:401:VAL:HG22	1:C:509:ARG:HG2	1.89	0.53
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.37	0.53
1:A:741:TYR:HE1	1:A:1004:LEU:HD13	1.73	0.53
1:B:117:LEU:HD11	1:B:233:ILE:HD11	1.91	0.53
1:A:92:PHE:HE2	1:A:265:TYR:HB2	1.73	0.53
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.34	0.53
1:C:616:ASN:HA	1:C:644:GLN:HE22	1.73	0.53
1:B:979:ASP:N	1:B:979:ASP:OD1	2.41	0.53
1:B:311:GLY:HA2	1:B:664:ILE:HD12	1.90	0.53
1:B:1120:THR:OG1	1:B:1121:PHE:N	2.41	0.53
1:C:1139:ASP:HB3	1:C:1142:GLN:HG2	1.89	0.53
1:A:323:THR:OG1	1:A:324:GLU:OE2	2.27	0.53
1:A:345:THR:O	1:A:509:ARG:NH2	2.42	0.53
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.90	0.53
1:B:121:ASN:ND2	1:B:177:MET:SD	2.81	0.53
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.90	0.53
1:C:102:ARG:NH1	1:C:121:ASN:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:394:ASN:OD1	1:B:394:ASN:N	2.41	0.53
1:B:1054:GLN:HB2	1:B:1061:VAL:HG13	1.91	0.53
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.91	0.53
1:C:130:VAL:HB	1:C:168:PHE:HB3	1.91	0.53
1:B:238:PHE:O	1:B:239:GLN:NE2	2.42	0.53
1:B:93:ALA:HB3	1:B:266:TYR:HB2	1.90	0.53
1:C:327:VAL:C	1:C:328:ARG:HD3	2.29	0.53
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.89	0.53
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.73	0.53
1:C:983:ARG:HE	1:C:984:LEU:HD23	1.73	0.53
1:B:362:VAL:HG21	1:B:526:GLY:H	1.73	0.53
1:B:1002:GLN:HA	1:B:1005:GLN:HG3	1.89	0.53
1:A:31:SER:HB3	1:A:34:ARG:HB2	1.90	0.53
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.56	0.53
1:C:1091:ARG:NH2	1:C:1120:THR:O	2.41	0.53
1:A:43:PHE:HB2	1:C:563:GLN:HE22	1.74	0.53
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.90	0.53
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.90	0.53
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.90	0.53
1:C:24:LEU:HD11	1:C:78:ARG:HB3	1.91	0.53
1:A:43:PHE:H	1:C:566:GLY:HA2	1.74	0.53
1:C:57:PRO:HG3	1:C:273:ARG:HE	1.73	0.53
1:C:84:LEU:HD11	1:C:267:VAL:HG11	1.90	0.53
1:B:612:TYR:HB2	1:B:649:CYS:HB3	1.89	0.53
1:B:108:THR:O	1:B:237:ARG:NH2	2.41	0.53
1:B:38:TYR:HE2	1:B:224:GLU:HG3	1.73	0.53
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.74	0.53
1:B:362:VAL:HG21	1:B:526:GLY:H	1.73	0.53
1:B:126:VAL:HB	1:B:172:SER:HB3	1.89	0.53
1:C:676:THR:HA	1:C:690:GLN:HG2	1.90	0.53
1:A:1120:THR:OG1	1:A:1121:PHE:N	2.41	0.53
1:C:759:PHE:HA	1:C:762:GLN:HG3	1.90	0.53
1:C:345:THR:O	1:C:509:ARG:NH2	2.41	0.53
1:A:741:TYR:HD1	1:A:742:ILE:HD13	1.73	0.53
1:B:977:LEU:HD21	1:B:996:LEU:HD23	1.91	0.53
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.90	0.53
1:B:1030:SER:HA	1:B:1034:LEU:HD23	1.89	0.53
1:A:310:LYS:HG2	1:A:664:ILE:HD11	1.91	0.53
1:A:971:GLY:O	1:A:995:ARG:NH1	2.41	0.53
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.90	0.53
1:C:741:TYR:HE2	1:C:1004:LEU:HD13	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.89	0.53
1:B:396:TYR:HB2	1:B:514:SER:HB2	1.91	0.53
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.90	0.53
1:B:394:ASN:HB3	1:B:516:GLU:HB2	1.90	0.53
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.74	0.53
1:A:719:THR:HG23	1:A:1070:ALA:HB2	1.91	0.53
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.91	0.53
1:C:598:ILE:HG23	1:C:664:ILE:HD11	1.90	0.53
1:A:865:LEU:HD11	1:A:873:TYR:HE1	1.74	0.53
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.41	0.53
1:C:106:PHE:HB3	1:C:235:ILE:HD13	1.90	0.53
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.89	0.53
1:B:126:VAL:HB	1:B:172:SER:HB3	1.90	0.53
1:C:965:GLN:HE21	1:C:970:PHE:HZ	1.55	0.53
1:A:312:ILE:HD11	1:A:596:SER:HB3	1.91	0.53
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.91	0.53
1:A:1010:GLN:OE1	1:A:1014:ARG:NH1	2.42	0.53
1:C:1105:THR:HG23	1:C:1111:GLU:H	1.74	0.53
1:A:969:ASN:OD1	1:B:755:GLN:NE2	2.42	0.53
1:A:1105:THR:HG23	1:A:1111:GLU:H	1.73	0.53
1:A:732:THR:OG1	1:A:955:ASN:ND2	2.41	0.53
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.90	0.53
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.24	0.53
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.91	0.53
1:A:1017:GLU:OE2	1:B:1019:ARG:NH1	2.41	0.53
1:B:551:VAL:HB	1:B:588:THR:HB	1.91	0.53
1:B:611:LEU:HD11	1:B:666:ILE:HG23	1.91	0.53
1:B:1149:LYS:HG3	1:C:1152:LEU:HD21	1.89	0.53
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.90	0.53
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.89	0.53
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.90	0.53
1:A:48:LEU:HB3	1:A:276:LEU:HD11	1.89	0.53
1:B:53:ASP:OD1	1:B:54:LEU:N	2.39	0.53
1:A:733:LYS:NZ	1:A:862:PRO:O	2.41	0.53
1:B:106:PHE:HD2	1:B:117:LEU:HD22	1.74	0.53
1:B:666:ILE:HD11	1:B:672:ALA:HB2	1.91	0.53
1:C:328:ARG:NH2	1:C:580:GLN:OE1	2.42	0.53
1:A:141:LEU:HD13	1:A:154:GLU:HG3	1.91	0.53
1:B:748:GLU:OE1	1:B:748:GLU:N	2.41	0.53
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.90	0.53
1:A:31:SER:HB3	1:A:34:ARG:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:825:LYS:NZ	1:A:938:LEU:O	2.37	0.53
1:B:741:TYR:HE2	1:B:1004:LEU:HB2	1.74	0.53
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.91	0.53
1:C:676:THR:HA	1:C:690:GLN:HG2	1.91	0.53
1:C:811:LYS:HG2	1:C:812:PRO:HD2	1.90	0.53
1:A:1152:LEU:HD21	1:C:1149:LYS:HG3	1.89	0.53
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.91	0.53
1:B:749:CYS:O	1:B:753:LEU:HB2	2.09	0.53
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.91	0.53
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.23	0.53
1:C:1019:ARG:O	1:C:1023:ASN:ND2	2.34	0.53
1:B:819:GLU:HA	1:B:822:LEU:HB2	1.91	0.53
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.42	0.53
1:C:129:LYS:HD3	1:C:133:PHE:HZ	1.73	0.53
1:B:312:ILE:HD11	1:B:596:SER:HB3	1.89	0.53
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.57	0.53
1:C:53:ASP:OD2	1:C:195:LYS:NZ	2.41	0.53
1:A:729:VAL:HG12	1:A:1059:GLY:HA2	1.91	0.53
1:A:784:GLN:HG3	1:A:1034:LEU:HD11	1.91	0.53
1:C:33:THR:OG1	1:C:219:GLY:O	2.26	0.53
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.91	0.53
1:C:48:LEU:HB3	1:C:276:LEU:HD21	1.91	0.53
1:B:1031:GLU:HG3	1:B:1042:PHE:HE2	1.73	0.53
1:B:738:CYS:HB2	1:B:763:LEU:HD21	1.89	0.53
1:B:1091:ARG:NH1	1:B:1120:THR:O	2.42	0.53
1:C:293:LEU:HD23	1:C:294:ASP:HB3	1.90	0.53
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.90	0.53
1:A:293:LEU:HD12	1:A:294:ASP:HB2	1.91	0.53
1:C:212:LEU:HD13	1:C:217:PRO:HD3	1.91	0.53
1:C:295:PRO:HA	1:C:298:GLU:HG2	1.91	0.53
1:C:337:PRO:HG3	1:C:356:LYS:HD3	1.91	0.53
1:C:560:LEU:HD23	1:C:562:PHE:H	1.74	0.53
1:A:1050:MET:HG2	1:A:1065:VAL:HB	1.90	0.53
1:A:897:PRO:HG2	1:A:900:MET:HG2	1.91	0.53
1:C:992:GLN:OE1	1:C:995:ARG:NH2	2.40	0.53
1:A:328:ARG:HD3	1:A:543:PHE:HE1	1.74	0.53
1:A:737:ASP:OD2	1:C:317:ASN:ND2	2.42	0.53
1:B:767:LEU:HA	1:B:770:ILE:HG22	1.89	0.53
1:A:598:ILE:HG22	1:A:692:ILE:HD13	1.91	0.52
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.90	0.52
1:A:203:ILE:HD13	1:A:227:VAL:HG13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:430:THR:HG22	1:C:983:ARG:HH11	1.72	0.52
1:B:563:GLN:O	1:B:577:ARG:NH1	2.41	0.52
1:A:644:GLN:NE2	1:A:645:THR:O	2.42	0.52
1:A:767:LEU:HA	1:A:770:ILE:HG12	1.91	0.52
1:A:727:LEU:HD21	1:A:1028:LYS:HD2	1.91	0.52
1:C:807:PRO:HA	1:C:816:SER:HA	1.90	0.52
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.90	0.52
1:A:971:GLY:O	1:A:995:ARG:NH2	2.42	0.52
1:B:152:TRP:HB3	1:B:179:LEU:HD12	1.90	0.52
1:C:733:LYS:HE3	1:C:771:ALA:HB1	1.90	0.52
1:A:858:LEU:HD13	1:A:959:LEU:HB3	1.91	0.52
1:B:362:VAL:HG21	1:B:526:GLY:H	1.74	0.52
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.74	0.52
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.90	0.52
1:A:299:THR:HG22	1:A:597:VAL:HG11	1.92	0.52
1:A:894:LEU:HD11	1:C:715:PRO:HD3	1.91	0.52
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.91	0.52
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.42	0.52
1:B:38:TYR:HE2	1:B:224:GLU:HG3	1.74	0.52
1:B:40:ASP:OD1	1:B:41:LYS:N	2.39	0.52
1:B:759:PHE:HA	1:B:762:GLN:HG3	1.90	0.52
1:B:726:ILE:HD12	1:B:1061:VAL:HG22	1.92	0.52
1:C:784:GLN:HA	1:C:784:GLN:HE21	1.75	0.52
1:A:294:ASP:OD1	1:A:294:ASP:N	2.42	0.52
1:A:569:ILE:O	1:B:964:LYS:NZ	2.42	0.52
1:A:560:LEU:HB2	1:A:563:GLN:HG2	1.91	0.52
1:C:884:SER:HG	1:C:887:THR:HG1	1.57	0.52
1:C:1091:ARG:NH2	1:C:1120:THR:O	2.42	0.52
1:A:741:TYR:HE1	1:A:1004:LEU:HD13	1.74	0.52
1:C:34:ARG:HB3	1:C:91:TYR:HE1	1.73	0.52
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.90	0.52
1:A:345:THR:O	1:A:509:ARG:NH2	2.43	0.52
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.91	0.52
1:C:954:GLN:OE1	1:C:1014:ARG:NH1	2.43	0.52
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.91	0.52
1:B:55:PHE:HB2	1:B:273:ARG:HB2	1.91	0.52
1:A:779:GLN:NE2	1:A:779:GLN:O	2.42	0.52
1:B:1105:THR:HG23	1:B:1111:GLU:H	1.73	0.52
1:A:53:ASP:OD2	1:A:54:LEU:N	2.41	0.52
1:B:190:ARG:HB3	1:B:192:PHE:HE2	1.74	0.52
1:B:273:ARG:HH21	1:B:292:ALA:HB3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:773:GLU:OE1	1:B:1019:ARG:NE	2.32	0.52
1:B:1090:PRO:HG2	1:C:913:GLN:HE22	1.74	0.52
1:A:1043:CYS:O	1:A:1064:HIS:ND1	2.42	0.52
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.91	0.52
1:A:776:LYS:NZ	1:A:780:GLU:OE2	2.42	0.52
1:C:878:LEU:O	1:C:882:ILE:HG12	2.09	0.52
1:B:108:THR:O	1:B:237:ARG:NH2	2.42	0.52
1:A:92:PHE:HB2	1:A:192:PHE:HB2	1.89	0.52
1:B:1037:SER:H	1:B:1048:HIS:HD2	1.55	0.52
1:C:299:THR:HG22	1:C:597:VAL:HG11	1.90	0.52
1:A:755:GLN:HG2	1:C:969:ASN:HD21	1.72	0.52
1:B:117:LEU:HD22	1:B:130:VAL:HG22	1.89	0.52
1:C:609:ALA:HB2	1:C:692:ILE:HG21	1.91	0.52
1:B:1129:VAL:HG22	1:C:917:TYR:HB3	1.91	0.52
1:C:229:LEU:HG	1:C:231:ILE:HG12	1.92	0.52
1:A:345:THR:O	1:A:509:ARG:NH2	2.42	0.52
1:A:1105:THR:HG23	1:A:1111:GLU:H	1.73	0.52
1:A:296:LEU:O	1:A:299:THR:OG1	2.25	0.52
1:A:206:LYS:NZ	1:A:222:ALA:O	2.42	0.52
1:C:96:GLU:OE1	1:C:99:ASN:ND2	2.36	0.52
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.91	0.52
1:A:1013:ILE:HG21	1:B:1012:LEU:HB3	1.90	0.52
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.91	0.52
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.90	0.52
1:A:951:VAL:O	1:A:954:GLN:NE2	2.42	0.52
1:C:32:PHE:HE1	1:C:218:GLN:HG2	1.73	0.52
1:B:311:GLY:HA2	1:B:664:ILE:HD12	1.91	0.52
1:C:826:VAL:HG22	1:C:945:LEU:HD13	1.92	0.52
1:A:897:PRO:HG2	1:A:900:MET:HG2	1.91	0.52
1:A:990:GLU:HA	1:A:993:ILE:HG22	1.90	0.52
1:C:96:GLU:OE1	1:C:99:ASN:ND2	2.35	0.52
1:B:749:CYS:O	1:B:753:LEU:CB	2.57	0.52
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.43	0.52
1:C:761:THR:O	1:C:765:ARG:HG2	2.10	0.52
1:A:293:LEU:HD12	1:A:294:ASP:HB2	1.90	0.52
1:A:40:ASP:OD1	1:A:41:LYS:N	2.33	0.52
1:C:100:ILE:HG23	1:C:247:SER:HB3	1.92	0.52
1:C:1019:ARG:O	1:C:1023:ASN:ND2	2.39	0.52
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.91	0.52
1:C:784:GLN:HA	1:C:784:GLN:HE21	1.75	0.52
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:193:VAL:HG13	1:A:270:LEU:HD21	1.92	0.52
1:C:555:SER:HB3	1:C:586:ASP:HB2	1.90	0.52
1:B:120:VAL:HG12	1:B:241:LEU:HD11	1.90	0.52
1:B:796:ASP:N	1:B:796:ASP:OD2	2.42	0.52
1:C:742:ILE:HG12	1:C:997:ILE:HG22	1.91	0.52
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.92	0.52
1:B:101:ILE:HB	1:B:190:ARG:HH22	1.75	0.52
1:B:825:LYS:HB2	1:B:945:LEU:HD21	1.91	0.52
1:C:328:ARG:NH2	1:C:530:SER:O	2.41	0.52
1:C:17:ASN:HB2	1:C:21:ARG:HD3	1.90	0.52
1:A:722:VAL:HG13	1:A:934:ILE:HD11	1.91	0.52
1:B:1017:GLU:OE2	1:C:1019:ARG:NH1	2.43	0.52
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.09	0.52
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.90	0.52
1:A:120:VAL:HB	1:A:127:VAL:HB	1.92	0.52
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.91	0.52
1:C:866:THR:OG1	1:C:867:ASP:N	2.43	0.52
1:A:592:PHE:HZ	1:B:857:GLY:HA2	1.74	0.52
1:B:699:LEU:HB2	1:C:788:ILE:HD11	1.90	0.52
1:C:902:MET:HB2	1:C:916:LEU:HD21	1.92	0.52
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.92	0.52
1:B:498:GLN:HE22	1:B:501:TYR:HB2	1.75	0.52
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.91	0.52
1:C:737:ASP:OD1	1:C:737:ASP:N	2.42	0.52
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	1.91	0.52
1:C:1019:ARG:HE	1:C:1023:ASN:HD21	1.58	0.52
1:A:1043:CYS:O	1:A:1064:HIS:ND1	2.43	0.52
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.92	0.52
1:C:866:THR:OG1	1:C:867:ASP:N	2.42	0.52
1:A:857:GLY:HA2	1:C:592:PHE:HZ	1.74	0.52
1:C:784:GLN:HA	1:C:784:GLN:HE21	1.74	0.52
1:A:581:THR:OG1	1:A:583:GLU:OE1	2.26	0.52
1:A:664:ILE:HD12	1:A:665:PRO:HD2	1.92	0.52
1:A:729:VAL:HG21	1:A:781:VAL:HG11	1.92	0.52
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.91	0.52
1:A:729:VAL:HG22	1:A:1059:GLY:HA2	1.91	0.52
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.91	0.52
1:B:362:VAL:HG21	1:B:526:GLY:H	1.75	0.52
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.91	0.52
1:C:130:VAL:HB	1:C:168:PHE:HB3	1.92	0.52
1:A:975:SER:O	1:A:1000:ARG:NH2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.52
1:C:906:PHE:HB3	1:C:911:VAL:HB	1.91	0.52
1:B:53:ASP:HB3	1:B:55:PHE:HE1	1.75	0.52
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.92	0.52
1:B:152:TRP:HB3	1:B:179:LEU:HD12	1.90	0.52
1:B:362:VAL:HG21	1:B:526:GLY:H	1.75	0.52
1:B:952:VAL:HA	1:B:955:ASN:ND2	2.25	0.52
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.42	0.52
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.92	0.52
1:C:1084:ASP:OD2	1:C:1086:LYS:NZ	2.43	0.52
1:A:310:LYS:HG3	1:A:600:PRO:HA	1.92	0.52
1:A:866:THR:OG1	1:A:869:MET:SD	2.65	0.52
1:B:543:PHE:HE1	1:B:585:LEU:HD11	1.74	0.52
1:B:565:PHE:O	1:C:43:PHE:HB3	2.10	0.52
1:A:742:ILE:O	1:A:1000:ARG:NH1	2.42	0.52
1:B:784:GLN:HG3	1:B:1034:LEU:HD21	1.91	0.52
1:C:328:ARG:NH1	1:C:531:THR:O	2.43	0.52
1:A:345:THR:O	1:A:509:ARG:NH2	2.43	0.52
1:A:708:SER:HB3	1:A:711:SER:HB3	1.91	0.52
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.91	0.52
1:B:214:ARG:NE	1:B:215:GLY:H	2.08	0.52
1:A:1002:GLN:OE1	1:B:1005:GLN:NE2	2.40	0.52
1:C:57:PRO:HG3	1:C:273:ARG:HE	1.74	0.52
1:C:731:MET:HB3	1:C:774:GLN:NE2	2.25	0.52
1:A:826:VAL:HG23	1:A:945:LEU:HD13	1.92	0.52
1:B:457:ARG:NH2	1:B:459:SER:OG	2.43	0.52
1:A:857:GLY:HA2	1:C:592:PHE:HZ	1.75	0.52
1:C:93:ALA:HB3	1:C:266:TYR:HB2	1.92	0.52
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.27	0.52
1:B:430:THR:O	1:C:983:ARG:NH2	2.43	0.52
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.75	0.52
1:C:117:LEU:HB2	1:C:233:ILE:HD11	1.91	0.52
1:C:1019:ARG:O	1:C:1023:ASN:ND2	2.35	0.52
1:A:214:ARG:HD2	1:A:215:GLY:H	1.74	0.52
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.75	0.52
1:C:710:ASN:OD1	1:C:710:ASN:N	2.39	0.52
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.91	0.52
1:A:729:VAL:O	1:A:777:ASN:ND2	2.38	0.52
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.92	0.52
1:C:37:TYR:OH	1:C:53:ASP:OD2	2.28	0.52
1:C:452:LEU:HD23	1:C:492:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.92	0.52
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.43	0.52
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.92	0.52
1:C:96:GLU:OE1	1:C:99:ASN:ND2	2.35	0.52
1:C:1100:THR:OG1	1:C:1101:HIS:N	2.43	0.52
1:B:825:LYS:NZ	1:B:938:LEU:O	2.40	0.52
1:B:971:GLY:HA3	1:B:995:ARG:HH22	1.75	0.52
1:A:310:LYS:HG2	1:A:664:ILE:HD11	1.90	0.52
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.92	0.52
1:A:106:PHE:HB2	1:A:117:LEU:HB2	1.91	0.52
1:C:309:GLU:OE2	1:C:310:LYS:N	2.40	0.52
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.27	0.52
1:B:667:GLY:HA2	1:C:864:LEU:HG	1.91	0.52
1:B:452:LEU:HD22	1:B:492:LEU:HD11	1.92	0.52
1:B:898:PHE:HA	1:B:901:GLN:HB3	1.92	0.52
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.92	0.52
1:A:51:THR:HG22	1:A:277:LEU:HD11	1.91	0.52
1:A:48:LEU:HD22	1:A:278:LYS:HG2	1.92	0.52
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.91	0.52
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.92	0.52
1:C:756:TYR:HB3	1:C:759:PHE:HE1	1.75	0.52
1:A:813:SER:OG	1:A:868:GLU:OE2	2.28	0.52
1:B:357:ARG:NH2	1:C:200:TYR:OH	2.43	0.52
1:B:362:VAL:HG21	1:B:526:GLY:H	1.75	0.52
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.92	0.52
1:C:644:GLN:NE2	1:C:645:THR:O	2.42	0.52
1:A:707:TYR:HE2	1:B:897:PRO:HA	1.75	0.52
1:B:317:ASN:N	1:B:317:ASN:OD1	2.42	0.52
1:C:351:TYR:HE2	1:C:470:THR:HG22	1.75	0.52
1:B:914:ASN:N	1:B:914:ASN:OD1	2.42	0.52
1:B:784:GLN:HE21	1:B:784:GLN:HA	1.75	0.52
1:C:825:LYS:NZ	1:C:938:LEU:O	2.40	0.52
1:B:37:TYR:OH	1:B:54:LEU:O	2.26	0.52
1:B:985:ASP:OD1	1:B:987:PRO:HD2	2.09	0.52
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.43	0.52
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.92	0.52
1:C:866:THR:OG1	1:C:867:ASP:N	2.43	0.52
1:A:134:GLN:HG3	1:A:161:SER:H	1.75	0.52
1:A:302:THR:HG21	1:A:315:THR:HA	1.92	0.52
1:C:560:LEU:HD23	1:C:562:PHE:H	1.75	0.52
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1012:LEU:HB3	1:C:1013:ILE:HG21	1.92	0.51
1:B:108:THR:O	1:B:237:ARG:NH2	2.42	0.51
1:A:708:SER:HB3	1:A:711:SER:HB3	1.92	0.51
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.42	0.51
1:B:713:ALA:HB3	1:C:894:LEU:HB3	1.92	0.51
1:C:971:GLY:O	1:C:995:ARG:NH1	2.42	0.51
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.56	0.51
1:A:1030:SER:HB2	1:C:1041:ASP:HB3	1.92	0.51
1:A:476:GLY:H	1:A:487:ASN:HB3	1.76	0.51
1:B:864:LEU:HG	1:B:865:LEU:HD22	1.92	0.51
1:C:851:CYS:HA	1:C:854:LYS:HE2	1.91	0.51
1:A:1038:LYS:HD2	1:C:1038:LYS:HZ1	1.75	0.51
1:B:749:CYS:O	1:B:753:LEU:CB	2.58	0.51
1:A:708:SER:HB3	1:A:711:SER:HB3	1.92	0.51
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.27	0.51
1:C:108:THR:OG1	1:C:234:ASN:O	2.28	0.51
1:B:722:VAL:HG22	1:B:1065:VAL:HG12	1.91	0.51
1:B:749:CYS:O	1:B:753:LEU:CB	2.59	0.51
1:A:33:THR:OG1	1:A:219:GLY:O	2.24	0.51
1:B:898:PHE:HA	1:B:901:GLN:HB3	1.92	0.51
1:B:993:ILE:O	1:B:997:ILE:HD12	2.10	0.51
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.58	0.51
1:C:310:LYS:HG2	1:C:664:ILE:HD11	1.90	0.51
1:C:1028:LYS:HB3	1:C:1062:PHE:HE1	1.75	0.51
1:A:48:LEU:HB3	1:A:276:LEU:HD11	1.92	0.51
1:C:767:LEU:HA	1:C:770:ILE:HG22	1.90	0.51
1:B:722:VAL:HG12	1:B:930:ALA:HB1	1.92	0.51
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.92	0.51
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.90	0.51
1:A:1033:VAL:HG22	1:A:1051:SER:HB2	1.91	0.51
1:C:293:LEU:HD23	1:C:294:ASP:HB2	1.92	0.51
1:C:93:ALA:HB3	1:C:266:TYR:HB2	1.93	0.51
1:B:316:SER:OG	1:B:317:ASN:N	2.43	0.51
1:B:336:CYS:HA	1:B:358:ILE:HD13	1.92	0.51
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.29	0.51
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.92	0.51
1:A:291:CYS:HA	1:A:297:SER:HB3	1.92	0.51
1:C:720:ILE:HD12	1:C:923:ILE:HG23	1.92	0.51
1:C:777:ASN:O	1:C:781:VAL:HG12	2.10	0.51
1:C:1002:GLN:O	1:C:1005:GLN:NE2	2.43	0.51
1:A:190:ARG:HH12	1:A:207:HIS:HB2	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.92	0.51
1:B:1086:LYS:HE2	1:B:1122:VAL:HG11	1.92	0.51
1:A:611:LEU:HD12	1:A:650:LEU:HD13	1.92	0.51
1:A:731:MET:HB3	1:A:774:GLN:NE2	2.26	0.51
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.58	0.51
1:A:552:LEU:HB3	1:A:585:LEU:HD23	1.92	0.51
1:A:566:GLY:HA2	1:B:43:PHE:H	1.74	0.51
1:B:734:THR:HG21	1:B:959:LEU:HD11	1.92	0.51
1:C:92:PHE:HE1	1:C:265:TYR:HB2	1.75	0.51
1:C:784:GLN:HE21	1:C:1029:MET:HG3	1.75	0.51
1:C:722:VAL:HG12	1:C:930:ALA:HB1	1.92	0.51
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.93	0.51
1:C:394:ASN:HB2	1:C:516:GLU:HB3	1.92	0.51
1:A:930:ALA:HA	1:A:933:LYS:HE2	1.93	0.51
1:A:719:THR:HG23	1:A:1070:ALA:HB2	1.92	0.51
1:B:319:ARG:HH21	1:C:745:ASP:H	1.57	0.51
1:B:796:ASP:OD1	1:B:796:ASP:N	2.44	0.51
1:C:774:GLN:HE21	1:C:777:ASN:HD21	1.59	0.51
1:C:1005:GLN:HA	1:C:1008:VAL:HG22	1.92	0.51
1:A:566:GLY:HA2	1:B:43:PHE:H	1.74	0.51
1:B:353:TRP:HE1	1:B:355:ARG:HE	1.59	0.51
1:C:946:GLY:HA2	1:C:949:GLN:HB3	1.92	0.51
1:A:294:ASP:OD1	1:A:294:ASP:N	2.37	0.51
1:B:885:GLY:HA3	1:B:901:GLN:NE2	2.25	0.51
1:A:914:ASN:HD21	1:C:1121:PHE:HE1	1.59	0.51
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.51
1:A:567:ARG:HE	1:B:42:VAL:HG11	1.75	0.51
1:B:310:LYS:HG3	1:B:600:PRO:HA	1.92	0.51
1:C:141:LEU:HD13	1:C:154:GLU:HG3	1.93	0.51
1:A:914:ASN:HD21	1:C:1121:PHE:HE1	1.58	0.51
1:A:1049:LEU:HB2	1:A:1065:VAL:HG12	1.91	0.51
1:A:1118:ASP:OD1	1:A:1118:ASP:N	2.38	0.51
1:C:954:GLN:HB3	1:C:1014:ARG:HH11	1.75	0.51
1:A:328:ARG:NH1	1:A:531:THR:O	2.43	0.51
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.93	0.51
1:B:951:VAL:O	1:B:954:GLN:NE2	2.44	0.51
1:C:89:GLY:HA3	1:C:270:LEU:HD12	1.93	0.51
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.43	0.51
1:C:664:ILE:HD12	1:C:665:PRO:HD2	1.93	0.51
1:B:57:PRO:HG3	1:B:273:ARG:HG3	1.92	0.51
1:B:784:GLN:HE21	1:B:784:GLN:HA	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:362:VAL:HG21	1:C:524:VAL:HB	1.91	0.51
1:A:755:GLN:O	1:C:969:ASN:ND2	2.43	0.51
1:B:878:LEU:HD21	1:B:1054:GLN:HE22	1.74	0.51
1:C:960:ASN:OD1	1:C:964:LYS:NZ	2.32	0.51
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.91	0.51
1:A:733:LYS:HE3	1:A:771:ALA:HB1	1.92	0.51
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.27	0.51
1:A:141:LEU:HB2	1:A:246:ILE:HD13	1.93	0.51
1:A:299:THR:HG22	1:A:597:VAL:HG11	1.92	0.51
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.76	0.51
1:A:308:VAL:N	1:A:602:THR:OG1	2.43	0.51
1:A:909:ILE:HG13	1:A:911:VAL:HG23	1.92	0.51
1:A:913:GLN:HE21	1:C:1089:PHE:HB3	1.76	0.51
1:C:650:LEU:HD21	1:C:653:ALA:HB3	1.91	0.51
1:A:185:ASN:ND2	1:A:211:ASN:OD1	2.43	0.51
1:A:965:GLN:NE2	1:B:758:SER:OG	2.43	0.51
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.75	0.51
1:C:777:ASN:O	1:C:781:VAL:HG12	2.11	0.51
1:C:813:SER:OG	1:C:868:GLU:OE2	2.26	0.51
1:A:971:GLY:H	1:B:755:GLN:NE2	2.08	0.51
1:C:206:LYS:HB2	1:C:223:LEU:HA	1.92	0.51
1:A:40:ASP:OD2	1:A:41:LYS:N	2.34	0.51
1:B:38:TYR:HE2	1:B:224:GLU:HG3	1.76	0.51
1:B:296:LEU:HB2	1:B:608:VAL:HG21	1.93	0.51
1:B:856:ASN:HD22	1:B:858:LEU:HD13	1.76	0.51
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.33	0.51
1:C:193:VAL:HB	1:C:204:TYR:HD2	1.74	0.51
1:A:711:SER:OG	1:B:895:GLN:OE1	2.28	0.51
1:A:720:ILE:HD11	1:A:1065:VAL:HG22	1.92	0.51
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.93	0.51
1:C:746:SER:O	1:C:750:SER:OG	2.27	0.51
1:B:141:LEU:HD12	1:B:142:GLY:H	1.76	0.51
1:A:767:LEU:HA	1:A:770:ILE:HG22	1.91	0.51
1:B:287:ASP:OD2	1:B:288:ALA:N	2.43	0.51
1:A:1105:THR:HG23	1:A:1111:GLU:H	1.76	0.51
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.93	0.51
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.92	0.51
1:B:741:TYR:HD1	1:B:1004:LEU:HD22	1.76	0.51
1:B:141:LEU:HD12	1:B:246:ILE:HG12	1.92	0.51
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.92	0.51
1:C:759:PHE:HA	1:C:762:GLN:HE21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:314:GLN:HE22	1:C:594:GLY:HA3	1.76	0.51
1:B:433:VAL:HA	1:B:512:VAL:HG12	1.92	0.51
1:A:1012:LEU:HB3	1:C:1013:ILE:HG21	1.93	0.51
1:A:714:ILE:HD13	1:A:1075:PHE:HD2	1.76	0.51
1:C:69:HIS:O	1:C:77:LYS:N	2.44	0.51
1:C:998:THR:HA	1:C:1001:LEU:HG	1.92	0.51
1:A:790:LYS:HE2	1:C:704:SER:HB2	1.92	0.51
1:B:277:LEU:HD22	1:B:285:ILE:HD13	1.93	0.51
1:B:394:ASN:HB2	1:B:516:GLU:HB2	1.92	0.51
1:A:120:VAL:HB	1:A:127:VAL:HB	1.93	0.51
1:B:332:ILE:HA	1:B:524:VAL:HG22	1.93	0.51
1:C:984:LEU:HB3	1:C:988:GLU:HG2	1.92	0.51
1:A:727:LEU:HD21	1:A:1028:LYS:HD2	1.93	0.51
1:C:108:THR:OG1	1:C:234:ASN:O	2.29	0.51
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.93	0.51
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.44	0.51
1:A:310:LYS:HG3	1:A:600:PRO:HA	1.92	0.51
1:A:731:MET:HB3	1:A:774:GLN:HE22	1.76	0.51
1:A:1030:SER:HA	1:A:1034:LEU:HD23	1.93	0.51
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.93	0.51
1:C:1031:GLU:HG3	1:C:1042:PHE:HE1	1.75	0.51
1:A:1010:GLN:OE1	1:A:1014:ARG:NH1	2.40	0.51
1:B:733:LYS:NZ	1:B:862:PRO:O	2.44	0.51
1:B:759:PHE:HA	1:B:762:GLN:HG3	1.93	0.51
1:A:108:THR:OG1	1:A:234:ASN:O	2.28	0.51
1:A:1010:GLN:HA	1:A:1013:ILE:HG13	1.93	0.51
1:C:328:ARG:NH2	1:C:580:GLN:OE1	2.44	0.51
1:C:813:SER:OG	1:C:868:GLU:OE2	2.28	0.51
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.93	0.51
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.75	0.51
1:C:886:TRP:HH2	1:C:904:TYR:HB3	1.76	0.51
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.92	0.51
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.43	0.51
1:A:930:ALA:HA	1:A:933:LYS:HE2	1.93	0.51
1:B:357:ARG:HH12	1:B:394:ASN:HA	1.76	0.51
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.92	0.51
1:B:915:VAL:O	1:B:919:ASN:ND2	2.38	0.51
1:C:191:GLU:HG2	1:C:223:LEU:HD21	1.91	0.51
1:C:825:LYS:HE2	1:C:945:LEU:HD23	1.93	0.51
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.93	0.51
1:A:770:ILE:O	1:A:774:GLN:CB	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:564:GLN:HA	1:A:577:ARG:HE	1.76	0.51
1:B:159:VAL:HG12	1:B:160:TYR:CD2	2.46	0.51
1:C:763:LEU:HD22	1:C:1008:VAL:HG21	1.91	0.51
1:A:782:PHE:HB3	1:A:873:TYR:HD2	1.75	0.51
1:C:567:ARG:NH1	1:C:573:THR:OG1	2.43	0.51
1:A:337:PRO:HB2	1:A:340:GLU:HG2	1.92	0.51
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.93	0.51
1:C:314:GLN:HA	1:C:314:GLN:HE21	1.73	0.51
1:B:796:ASP:N	1:B:796:ASP:OD2	2.44	0.51
1:C:214:ARG:HD2	1:C:215:GLY:H	1.75	0.51
1:C:393:THR:HA	1:C:522:ALA:HA	1.92	0.51
1:B:733:LYS:HE3	1:B:771:ALA:HB1	1.93	0.51
1:C:708:SER:HB3	1:C:711:SER:HB3	1.93	0.51
1:C:458:LYS:HB3	1:C:474:GLN:HB3	1.93	0.51
1:C:996:LEU:HD11	1:C:1000:ARG:HE	1.75	0.51
1:A:109:THR:OG1	1:A:111:ASP:OD1	2.28	0.51
1:A:1123:SER:OG	1:B:914:ASN:ND2	2.44	0.51
1:C:727:LEU:HD11	1:C:1028:LYS:HD2	1.91	0.51
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.44	0.51
1:B:676:THR:HA	1:B:690:GLN:HG2	1.92	0.51
1:B:957:GLN:HE21	1:B:957:GLN:HA	1.75	0.51
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.93	0.51
1:A:289:VAL:HG11	1:A:300:LYS:HD2	1.91	0.51
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.51
1:C:206:LYS:HE3	1:C:208:THR:HB	1.92	0.51
1:A:201:PHE:HB3	1:A:229:LEU:HB3	1.93	0.51
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.93	0.51
1:B:429:PHE:HZ	1:B:512:VAL:HB	1.76	0.51
1:B:1091:ARG:NH2	1:B:1120:THR:O	2.44	0.51
1:A:957:GLN:HG3	1:B:765:ARG:HH12	1.74	0.51
1:B:985:ASP:OD1	1:B:987:PRO:HD2	2.10	0.51
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.93	0.51
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.93	0.51
1:A:476:GLY:H	1:A:487:ASN:HB3	1.76	0.51
1:A:763:LEU:HD22	1:A:1008:VAL:HG11	1.93	0.51
1:C:1009:THR:O	1:C:1013:ILE:HG13	2.10	0.51
1:A:567:ARG:HD3	1:A:571:ASP:HA	1.93	0.51
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.28	0.51
1:A:825:LYS:HE3	1:A:939:SER:HA	1.93	0.51
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.92	0.51
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:950:ASP:O	1:B:954:GLN:HG3	2.11	0.51
1:B:954:GLN:HB2	1:B:1014:ARG:HH21	1.75	0.51
1:B:48:LEU:HB3	1:B:276:LEU:HD11	1.93	0.51
1:C:206:LYS:NZ	1:C:221:SER:OG	2.40	0.51
1:B:106:PHE:HB2	1:B:117:LEU:HB2	1.93	0.51
1:B:1033:VAL:HG22	1:B:1051:SER:HB2	1.92	0.51
1:B:733:LYS:HE3	1:B:771:ALA:HB1	1.92	0.51
1:B:1090:PRO:HG2	1:C:913:GLN:HE22	1.76	0.51
1:B:738:CYS:HB2	1:B:763:LEU:HD11	1.93	0.51
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.92	0.51
1:A:1129:VAL:HG12	1:B:917:TYR:HB3	1.93	0.51
1:C:299:THR:HG22	1:C:597:VAL:HG11	1.92	0.51
1:A:43:PHE:H	1:C:566:GLY:HA2	1.76	0.50
1:A:749:CYS:HA	1:A:752:LEU:HD12	1.92	0.50
1:B:103:GLY:HA3	1:B:120:VAL:HA	1.92	0.50
1:B:185:ASN:ND2	1:B:211:ASN:OD1	2.38	0.50
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.93	0.50
1:C:949:GLN:O	1:C:953:ASN:ND2	2.44	0.50
1:B:563:GLN:O	1:B:577:ARG:NH1	2.43	0.50
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.94	0.50
1:C:819:GLU:HA	1:C:822:LEU:HG	1.93	0.50
1:A:969:ASN:OD1	1:B:755:GLN:NE2	2.43	0.50
1:B:48:LEU:O	1:B:304:LYS:NZ	2.43	0.50
1:B:762:GLN:OE1	1:B:765:ARG:NH2	2.44	0.50
1:B:748:GLU:OE1	1:B:748:GLU:N	2.44	0.50
1:C:731:MET:HB2	1:C:955:ASN:HD21	1.76	0.50
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.93	0.50
1:A:379:CYS:SG	1:C:487:ASN:ND2	2.73	0.50
1:C:1014:ARG:HA	1:C:1017:GLU:HG3	1.94	0.50
1:A:560:LEU:HB2	1:A:563:GLN:HG2	1.92	0.50
1:C:777:ASN:O	1:C:781:VAL:HG12	2.11	0.50
1:A:1012:LEU:HD12	1:C:1013:ILE:HG21	1.93	0.50
1:C:962:LEU:HD21	1:C:1007:TYR:CG	2.46	0.50
1:A:566:GLY:HA2	1:B:43:PHE:H	1.74	0.50
1:A:666:ILE:HG12	1:A:671:CYS:HA	1.91	0.50
1:B:182:LYS:HD3	1:B:187:LYS:HD2	1.93	0.50
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.36	0.50
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.93	0.50
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.92	0.50
1:C:560:LEU:O	1:C:577:ARG:NH2	2.43	0.50
1:C:743:CYS:HB2	1:C:977:LEU:HD22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.44	0.50
1:B:741:TYR:HE2	1:B:966:LEU:HG	1.75	0.50
1:C:874:THR:HG21	1:C:1055:SER:HB3	1.93	0.50
1:C:1100:THR:OG1	1:C:1101:HIS:N	2.43	0.50
1:A:551:VAL:HB	1:A:588:THR:HG23	1.91	0.50
1:C:1028:LYS:NZ	1:C:1042:PHE:O	2.43	0.50
1:C:896:ILE:HD12	1:C:897:PRO:HD2	1.92	0.50
1:C:741:TYR:OH	1:C:962:LEU:O	2.24	0.50
1:A:755:GLN:NE2	1:C:969:ASN:OD1	2.44	0.50
1:A:770:ILE:O	1:A:774:GLN:HB2	2.11	0.50
1:B:296:LEU:HB2	1:B:608:VAL:HG21	1.93	0.50
1:A:734:THR:HG21	1:A:959:LEU:HD11	1.93	0.50
1:C:357:ARG:HD2	1:C:396:TYR:HE1	1.76	0.50
1:A:914:ASN:HD21	1:C:1121:PHE:HE1	1.59	0.50
1:C:948:LEU:HD21	1:C:1059:GLY:HA3	1.92	0.50
1:A:53:ASP:OD2	1:A:54:LEU:N	2.41	0.50
1:B:83:VAL:HG22	1:B:239:GLN:HG2	1.93	0.50
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.42	0.50
1:C:189:LEU:HD22	1:C:210:ILE:HD13	1.91	0.50
1:A:100:ILE:HG23	1:A:247:SER:HB3	1.94	0.50
1:B:287:ASP:OD1	1:B:288:ALA:N	2.44	0.50
1:C:21:ARG:HA	1:C:79:PHE:HB3	1.93	0.50
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.75	0.50
1:C:189:LEU:HD22	1:C:210:ILE:HD13	1.93	0.50
1:A:719:THR:HG23	1:A:1070:ALA:HB2	1.94	0.50
1:A:784:GLN:HA	1:A:784:GLN:NE2	2.26	0.50
1:B:770:ILE:O	1:B:774:GLN:CB	2.59	0.50
1:C:1009:THR:O	1:C:1013:ILE:HG23	2.11	0.50
1:C:311:GLY:HA2	1:C:664:ILE:HG12	1.93	0.50
1:C:858:LEU:HD13	1:C:959:LEU:HB3	1.93	0.50
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.92	0.50
1:A:1009:THR:O	1:A:1013:ILE:HG13	2.12	0.50
1:B:152:TRP:HB3	1:B:179:LEU:HD12	1.92	0.50
1:B:784:GLN:HG3	1:B:1034:LEU:HD11	1.93	0.50
1:C:984:LEU:HD11	1:C:988:GLU:HB2	1.93	0.50
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.93	0.50
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.93	0.50
1:C:990:GLU:HA	1:C:993:ILE:HG22	1.93	0.50
1:A:48:LEU:HD23	1:A:276:LEU:HD21	1.92	0.50
1:A:1086:LYS:HA	1:A:1125:ASN:HA	1.94	0.50
1:B:206:LYS:HB2	1:B:223:LEU:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:296:LEU:O	1:A:299:THR:OG1	2.29	0.50
1:B:271:GLN:HG2	1:B:272:PRO:HD2	1.92	0.50
1:C:296:LEU:O	1:C:299:THR:OG1	2.22	0.50
1:A:273:ARG:HE	1:A:292:ALA:HB3	1.75	0.50
1:C:946:GLY:HA2	1:C:949:GLN:HB2	1.94	0.50
1:B:858:LEU:HD21	1:B:962:LEU:HD22	1.94	0.50
1:B:759:PHE:HD2	1:B:1001:LEU:HD11	1.77	0.50
1:C:126:VAL:HG21	1:C:226:LEU:HD21	1.92	0.50
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.93	0.50
1:C:1010:GLN:OE1	1:C:1014:ARG:NH2	2.35	0.50
1:A:733:LYS:HE3	1:A:771:ALA:HB1	1.92	0.50
1:A:552:LEU:HB3	1:A:585:LEU:HD22	1.93	0.50
1:B:44:ARG:HE	1:B:279:TYR:HE2	1.59	0.50
1:B:985:ASP:OD1	1:B:987:PRO:HD2	2.12	0.50
1:A:92:PHE:HB2	1:A:192:PHE:HB2	1.94	0.50
1:A:949:GLN:HA	1:A:952:VAL:HG22	1.93	0.50
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.92	0.50
1:C:21:ARG:HA	1:C:79:PHE:HB3	1.93	0.50
1:B:1010:GLN:HA	1:B:1013:ILE:HD12	1.91	0.50
1:C:567:ARG:HH22	1:C:571:ASP:HB3	1.76	0.50
1:A:901:GLN:OE1	1:A:905:ARG:NE	2.44	0.50
1:A:87:ASN:OD1	1:A:87:ASN:N	2.44	0.50
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.58	0.50
1:B:954:GLN:HG3	1:B:1014:ARG:HD3	1.94	0.50
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.93	0.50
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.93	0.50
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.94	0.50
1:C:971:GLY:O	1:C:995:ARG:NH1	2.44	0.50
1:A:1004:LEU:HD12	1:A:1007:TYR:HB3	1.94	0.50
1:C:773:GLU:HA	1:C:776:LYS:HE3	1.92	0.50
1:C:177:MET:HB2	1:C:190:ARG:HH21	1.77	0.50
1:B:310:LYS:HG3	1:B:600:PRO:HA	1.93	0.50
1:C:543:PHE:HD2	1:C:576:VAL:HG21	1.77	0.50
1:C:741:TYR:HE2	1:C:1004:LEU:HB2	1.77	0.50
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.77	0.50
1:C:598:ILE:HG23	1:C:664:ILE:HD11	1.93	0.50
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.94	0.50
1:B:784:GLN:HG3	1:B:1034:LEU:HD21	1.93	0.50
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.76	0.50
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.93	0.50
1:C:222:ALA:HB2	1:C:285:ILE:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:954:GLN:OE1	1:B:1014:ARG:NH1	2.45	0.50
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.44	0.50
1:C:906:PHE:HA	1:C:909:ILE:HG12	1.94	0.50
1:C:726:ILE:HD12	1:C:1061:VAL:HG22	1.92	0.50
1:A:120:VAL:HB	1:A:127:VAL:HB	1.93	0.50
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.92	0.50
1:C:345:THR:O	1:C:509:ARG:NH2	2.44	0.50
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.50
1:B:979:ASP:O	1:B:983:ARG:HG2	2.11	0.50
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.45	0.50
1:B:37:TYR:OH	1:B:54:LEU:O	2.28	0.50
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.45	0.50
1:C:807:PRO:HA	1:C:816:SER:HA	1.94	0.50
1:A:777:ASN:O	1:A:781:VAL:HG12	2.12	0.50
1:C:33:THR:OG1	1:C:219:GLY:O	2.29	0.50
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.44	0.50
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.93	0.50
1:A:1129:VAL:HG12	1:B:917:TYR:HB3	1.94	0.50
1:C:591:SER:HB3	1:C:615:VAL:HG12	1.94	0.50
1:A:702:GLU:HA	1:B:788:ILE:HB	1.94	0.50
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.50
1:A:328:ARG:HD3	1:A:543:PHE:HE2	1.77	0.50
1:A:329:PHE:HD2	1:A:528:LYS:HB3	1.77	0.50
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.94	0.50
1:B:318:PHE:N	1:B:593:GLY:O	2.45	0.50
1:C:560:LEU:HB2	1:C:563:GLN:HG2	1.94	0.50
1:C:616:ASN:OD1	1:C:644:GLN:NE2	2.45	0.50
1:C:918:GLU:OE2	1:C:918:GLU:N	2.45	0.50
1:A:777:ASN:O	1:A:781:VAL:HG12	2.12	0.50
1:B:353:TRP:HE1	1:B:355:ARG:HE	1.59	0.50
1:A:317:ASN:ND2	1:B:737:ASP:OD2	2.45	0.50
1:A:328:ARG:HD3	1:A:543:PHE:HE2	1.77	0.50
1:C:189:LEU:HD22	1:C:210:ILE:HD13	1.92	0.50
1:C:708:SER:HB3	1:C:711:SER:HB3	1.93	0.50
1:A:379:CYS:SG	1:C:487:ASN:ND2	2.76	0.50
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.44	0.50
1:C:737:ASP:HB3	1:C:740:MET:HG2	1.92	0.50
1:C:784:GLN:HA	1:C:784:GLN:HE21	1.76	0.50
1:B:733:LYS:NZ	1:B:861:LEU:O	2.42	0.50
1:A:702:GLU:HA	1:B:788:ILE:HB	1.94	0.50
1:B:37:TYR:OH	1:B:54:LEU:O	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:807:PRO:HA	1:C:816:SER:HA	1.92	0.50
1:A:699:LEU:HB2	1:B:788:ILE:HD11	1.92	0.50
1:B:457:ARG:NH1	1:B:459:SER:OG	2.44	0.50
1:B:102:ARG:HB3	1:B:121:ASN:HB3	1.93	0.50
1:C:866:THR:OG1	1:C:867:ASP:N	2.44	0.50
1:A:193:VAL:HG13	1:A:270:LEU:HD21	1.93	0.50
1:B:666:ILE:HD11	1:B:672:ALA:HB2	1.94	0.50
1:B:134:GLN:OE1	1:B:162:SER:OG	2.30	0.50
1:C:994:ASP:HA	1:C:997:ILE:HG12	1.93	0.50
1:A:913:GLN:HE22	1:C:1090:PRO:HD2	1.77	0.50
1:A:738:CYS:HB3	1:A:763:LEU:HD11	1.93	0.50
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.94	0.50
1:C:310:LYS:HG2	1:C:664:ILE:HD11	1.93	0.50
1:A:567:ARG:HD3	1:A:571:ASP:HA	1.94	0.50
1:A:1128:VAL:HG11	1:B:918:GLU:HG3	1.93	0.50
1:B:330:PRO:HB3	1:B:580:GLN:HA	1.94	0.50
1:C:82:PRO:O	1:C:239:GLN:NE2	2.45	0.50
1:B:389:ASP:OD1	1:B:389:ASP:N	2.40	0.50
1:B:748:GLU:N	1:B:748:GLU:OE2	2.44	0.50
1:C:708:SER:HB3	1:C:711:SER:HB3	1.94	0.50
1:B:314:GLN:HE22	1:B:594:GLY:HA3	1.77	0.50
1:B:822:LEU:HD13	1:B:945:LEU:HD21	1.94	0.50
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.93	0.50
1:B:37:TYR:OH	1:B:54:LEU:O	2.23	0.50
1:A:777:ASN:O	1:A:781:VAL:HG12	2.11	0.50
1:B:302:THR:HG21	1:B:315:THR:HA	1.94	0.50
1:C:108:THR:O	1:C:237:ARG:NH2	2.45	0.50
1:B:389:ASP:OD2	1:B:389:ASP:N	2.42	0.50
1:B:737:ASP:OD1	1:B:737:ASP:N	2.31	0.50
1:C:48:LEU:HB3	1:C:276:LEU:HD11	1.93	0.50
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.94	0.50
1:A:985:ASP:OD1	1:A:987:PRO:HD2	2.11	0.50
1:B:108:THR:O	1:B:237:ARG:NH2	2.45	0.50
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.93	0.50
1:B:965:GLN:OE1	1:C:758:SER:OG	2.24	0.50
1:A:676:THR:HA	1:A:690:GLN:HG2	1.93	0.50
1:A:92:PHE:HE2	1:A:94:SER:HB2	1.77	0.50
1:B:1118:ASP:OD1	1:B:1118:ASP:N	2.44	0.50
1:A:452:LEU:HD23	1:A:492:LEU:HB3	1.92	0.50
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.94	0.50
1:A:774:GLN:NE2	1:A:1018:ILE:HD12	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:113:LYS:HG3	1:C:114:THR:HG23	1.93	0.50
1:C:710:ASN:OD1	1:C:710:ASN:N	2.38	0.50
1:A:946:GLY:HA2	1:A:949:GLN:HB3	1.94	0.50
1:B:189:LEU:HD22	1:B:210:ILE:HD13	1.93	0.50
1:B:442:ASP:OD1	1:B:509:ARG:NH2	2.42	0.50
1:A:963:VAL:HG21	1:C:570:ALA:HB1	1.94	0.50
1:A:40:ASP:OD2	1:A:41:LYS:N	2.34	0.50
1:A:108:THR:OG1	1:A:234:ASN:O	2.30	0.50
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.94	0.50
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.94	0.50
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.34	0.49
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.30	0.49
1:A:302:THR:HG21	1:A:315:THR:HG22	1.93	0.49
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.93	0.49
1:B:646:ARG:HH22	1:C:850:ILE:HG21	1.76	0.49
1:B:666:ILE:HD11	1:B:672:ALA:HB2	1.94	0.49
1:A:328:ARG:HD3	1:A:543:PHE:HE2	1.75	0.49
1:B:296:LEU:HD11	1:B:308:VAL:HG11	1.93	0.49
1:C:141:LEU:HD13	1:C:154:GLU:HG3	1.95	0.49
1:C:1084:ASP:OD2	1:C:1086:LYS:NZ	2.45	0.49
1:A:212:LEU:HD13	1:A:217:PRO:HD3	1.94	0.49
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.94	0.49
1:B:355:ARG:HH12	1:B:464:PHE:HE1	1.59	0.49
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.94	0.49
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.77	0.49
1:A:702:GLU:HA	1:B:788:ILE:HB	1.93	0.49
1:C:851:CYS:HA	1:C:854:LYS:HG2	1.94	0.49
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.77	0.49
1:B:957:GLN:NE2	1:C:762:GLN:OE1	2.41	0.49
1:C:708:SER:HB3	1:C:711:SER:HB3	1.94	0.49
1:C:767:LEU:HA	1:C:770:ILE:HG12	1.93	0.49
1:A:89:GLY:HA3	1:A:270:LEU:HD12	1.94	0.49
1:A:702:GLU:HA	1:B:788:ILE:HB	1.94	0.49
1:B:599:THR:HG22	1:B:608:VAL:HA	1.94	0.49
1:B:746:SER:OG	1:B:748:GLU:OE1	2.30	0.49
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.45	0.49
1:C:906:PHE:HA	1:C:909:ILE:HG12	1.93	0.49
1:A:777:ASN:O	1:A:781:VAL:HG12	2.12	0.49
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	1.92	0.49
1:A:611:LEU:HD12	1:A:650:LEU:HD13	1.94	0.49
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.76	0.49
1:A:574:ASP:HA	1:A:587:ILE:HB	1.93	0.49
1:B:777:ASN:OD1	1:B:777:ASN:N	2.45	0.49
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.94	0.49
1:C:64:TRP:HE1	1:C:214:ARG:NH1	2.10	0.49
1:C:1015:ALA:HA	1:C:1018:ILE:HG22	1.94	0.49
1:A:1010:GLN:HB3	1:A:1014:ARG:HH22	1.77	0.49
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.30	0.49
1:C:767:LEU:HA	1:C:770:ILE:HG12	1.94	0.49
1:C:1091:ARG:NH2	1:C:1120:THR:O	2.46	0.49
1:A:100:ILE:HG23	1:A:247:SER:HB3	1.95	0.49
1:A:777:ASN:O	1:A:781:VAL:HG12	2.12	0.49
1:C:50:SER:OG	1:C:304:LYS:NZ	2.45	0.49
1:B:42:VAL:HG11	1:B:44:ARG:HH21	1.77	0.49
1:A:568:ASP:OD2	1:A:569:ILE:N	2.36	0.49
1:B:57:PRO:HG3	1:B:273:ARG:HG3	1.92	0.49
1:B:296:LEU:HB2	1:B:608:VAL:HG21	1.94	0.49
1:B:302:THR:HG21	1:B:315:THR:HA	1.93	0.49
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.94	0.49
1:B:1090:PRO:HG2	1:C:913:GLN:HE22	1.77	0.49
1:B:796:ASP:N	1:B:796:ASP:OD2	2.45	0.49
1:A:565:PHE:HE1	1:A:567:ARG:HH12	1.60	0.49
1:A:767:LEU:HA	1:A:770:ILE:HG22	1.94	0.49
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.95	0.49
1:C:65:PHE:C	1:C:66:HIS:HD1	2.15	0.49
1:B:353:TRP:HE1	1:B:355:ARG:HH21	1.59	0.49
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.11	0.49
1:B:190:ARG:HE	1:B:192:PHE:HZ	1.60	0.49
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.76	0.49
1:C:578:ASP:OD2	1:C:581:THR:OG1	2.28	0.49
1:A:864:LEU:HD22	1:A:865:LEU:HD22	1.95	0.49
1:B:159:VAL:HG12	1:B:160:TYR:CD2	2.47	0.49
1:B:172:SER:OG	1:B:173:GLN:N	2.46	0.49
1:B:362:VAL:HB	1:B:524:VAL:HG12	1.94	0.49
1:C:87:ASN:OD1	1:C:87:ASN:N	2.45	0.49
1:B:807:PRO:HA	1:B:816:SER:HA	1.94	0.49
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.93	0.49
1:C:422:ASN:HD21	1:C:453:TYR:HB2	1.76	0.49
1:A:454:ARG:NH2	1:A:469:SER:O	2.45	0.49
1:B:1041:ASP:HB3	1:C:1030:SER:HB2	1.95	0.49
1:A:295:PRO:HG2	1:A:608:VAL:HG11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:742:ILE:O	1:A:1000:ARG:NH1	2.45	0.49
1:B:756:TYR:OH	1:B:994:ASP:OD2	2.29	0.49
1:C:141:LEU:HB2	1:C:246:ILE:HD13	1.95	0.49
1:C:273:ARG:NH1	1:C:290:ASP:OD2	2.44	0.49
1:C:99:ASN:O	1:C:102:ARG:NH1	2.44	0.49
1:B:598:ILE:HD11	1:B:611:LEU:HD12	1.94	0.49
1:B:1096:VAL:HG13	1:B:1103:PHE:HB2	1.95	0.49
1:C:31:SER:HB3	1:C:34:ARG:HB2	1.94	0.49
1:C:879:ALA:O	1:C:883:THR:OG1	2.28	0.49
1:B:53:ASP:HB3	1:B:55:PHE:HE1	1.78	0.49
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.77	0.49
1:B:33:THR:OG1	1:B:219:GLY:O	2.26	0.49
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.95	0.49
1:C:205:SER:HB2	1:C:226:LEU:HB2	1.94	0.49
1:B:727:LEU:HG	1:B:1025:ALA:HB2	1.93	0.49
1:C:66:HIS:HA	1:C:264:ALA:HA	1.95	0.49
1:C:884:SER:OG	1:C:887:THR:OG1	2.29	0.49
1:C:708:SER:HB3	1:C:711:SER:HB3	1.95	0.49
1:C:1010:GLN:OE1	1:C:1014:ARG:NH2	2.46	0.49
1:B:782:PHE:HB3	1:B:873:TYR:HD2	1.78	0.49
1:A:782:PHE:HB3	1:A:873:TYR:HD1	1.76	0.49
1:A:902:MET:HE1	1:A:905:ARG:HD2	1.94	0.49
1:B:974:SER:H	1:B:980:ILE:HD11	1.77	0.49
1:A:452:LEU:HD23	1:A:492:LEU:HB3	1.94	0.49
1:A:946:GLY:HA2	1:A:949:GLN:HB2	1.95	0.49
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	1.95	0.49
1:A:1013:ILE:HD12	1:B:1012:LEU:HD12	1.94	0.49
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.49
1:C:82:PRO:O	1:C:239:GLN:NE2	2.46	0.49
1:C:902:MET:HB2	1:C:916:LEU:HD21	1.94	0.49
1:B:737:ASP:OD1	1:B:737:ASP:N	2.45	0.49
1:C:763:LEU:HD12	1:C:1008:VAL:HG11	1.95	0.49
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.94	0.49
1:B:707:TYR:HB2	1:C:792:PRO:HG2	1.93	0.49
1:A:120:VAL:HB	1:A:127:VAL:HB	1.94	0.49
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.30	0.49
1:B:357:ARG:HH22	1:B:359:SER:H	1.59	0.49
1:C:969:ASN:ND2	1:C:972:ALA:O	2.46	0.49
1:B:596:SER:HB2	1:B:611:LEU:HB3	1.93	0.49
1:A:339:GLY:HA2	1:A:342:PHE:CD1	2.48	0.49
1:A:965:GLN:O	1:A:968:SER:OG	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.93	0.49
1:B:1084:ASP:OD2	1:B:1086:LYS:NZ	2.45	0.49
1:C:287:ASP:OD2	1:C:288:ALA:N	2.45	0.49
1:C:564:GLN:N	1:C:564:GLN:OE1	2.46	0.49
1:C:108:THR:O	1:C:237:ARG:NH1	2.38	0.49
1:A:1030:SER:HB2	1:C:1041:ASP:HB3	1.95	0.49
1:A:205:SER:O	1:A:224:GLU:N	2.46	0.49
1:C:1050:MET:HG2	1:C:1065:VAL:HG22	1.93	0.49
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.94	0.49
1:C:66:HIS:HA	1:C:264:ALA:HA	1.93	0.49
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.93	0.49
1:C:733:LYS:HE3	1:C:771:ALA:HB1	1.94	0.49
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.42	0.49
1:A:328:ARG:HD3	1:A:543:PHE:HE2	1.76	0.49
1:A:645:THR:HG23	1:A:647:ALA:H	1.78	0.49
1:B:104:TRP:HB2	1:B:106:PHE:HE1	1.78	0.49
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.77	0.49
1:A:726:ILE:HG13	1:A:1061:VAL:HG23	1.95	0.49
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.93	0.49
1:C:31:SER:HB2	1:C:34:ARG:HB2	1.94	0.49
1:A:777:ASN:O	1:A:781:VAL:HG12	2.13	0.49
1:C:1049:LEU:HB2	1:C:1065:VAL:HG23	1.95	0.49
1:A:278:LYS:NZ	1:A:287:ASP:OD2	2.37	0.49
1:C:117:LEU:HB2	1:C:233:ILE:HD11	1.94	0.49
1:B:746:SER:OG	1:B:748:GLU:OE1	2.30	0.49
1:B:120:VAL:HG12	1:B:241:LEU:HD11	1.93	0.49
1:A:473:TYR:H	1:A:491:PRO:HD3	1.77	0.49
1:B:311:GLY:HA2	1:B:664:ILE:HD12	1.93	0.49
1:B:878:LEU:O	1:B:882:ILE:HG12	2.12	0.49
1:C:563:GLN:O	1:C:577:ARG:NH1	2.46	0.49
1:C:645:THR:HG23	1:C:647:ALA:H	1.76	0.49
1:A:857:GLY:HA2	1:C:592:PHE:HZ	1.76	0.49
1:B:722:VAL:HG12	1:B:930:ALA:HB1	1.94	0.49
1:B:1096:VAL:HG13	1:B:1103:PHE:HB2	1.95	0.49
1:C:665:PRO:HA	1:C:671:CYS:HB2	1.94	0.49
1:B:773:GLU:OE1	1:B:774:GLN:NE2	2.44	0.49
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.94	0.49
1:A:717:ASN:OD1	1:A:718:PHE:N	2.46	0.49
1:A:970:PHE:HB3	1:B:755:GLN:HE21	1.77	0.49
1:B:738:CYS:SG	1:B:739:THR:N	2.85	0.49
1:B:784:GLN:HE21	1:B:784:GLN:HA	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.12	0.49
1:B:1091:ARG:NH1	1:B:1120:THR:O	2.43	0.49
1:B:58:PHE:HD2	1:B:290:ASP:HB2	1.78	0.49
1:A:401:VAL:HG22	1:A:509:ARG:HG2	1.93	0.49
1:B:731:MET:H	1:B:774:GLN:NE2	2.10	0.49
1:A:564:GLN:HE22	1:B:41:LYS:HG3	1.77	0.49
1:B:433:VAL:HA	1:B:512:VAL:HG12	1.95	0.49
1:C:309:GLU:N	1:C:309:GLU:OE1	2.45	0.49
1:C:742:ILE:HG21	1:C:753:LEU:HD22	1.94	0.49
1:A:965:GLN:HA	1:A:965:GLN:NE2	2.26	0.49
1:B:598:ILE:HD11	1:B:611:LEU:HD12	1.94	0.49
1:B:797:PHE:HE2	1:B:802:PHE:HB2	1.77	0.49
1:C:777:ASN:O	1:C:781:VAL:HG12	2.13	0.49
1:B:120:VAL:HG12	1:B:241:LEU:HD11	1.95	0.49
1:C:758:SER:O	1:C:761:THR:OG1	2.23	0.49
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.46	0.49
1:C:314:GLN:HE22	1:C:595:VAL:N	2.11	0.49
1:C:452:LEU:HD23	1:C:492:LEU:HB3	1.94	0.49
1:A:311:GLY:HA2	1:A:664:ILE:HD12	1.94	0.49
1:A:777:ASN:O	1:A:781:VAL:HG12	2.12	0.49
1:C:312:ILE:HD11	1:C:596:SER:HB3	1.95	0.49
1:B:1086:LYS:HE2	1:B:1122:VAL:HG21	1.94	0.49
1:B:733:LYS:HD2	1:B:771:ALA:HB1	1.94	0.49
1:C:87:ASN:OD1	1:C:87:ASN:N	2.43	0.49
1:A:21:ARG:HD3	1:A:79:PHE:HD2	1.78	0.49
1:A:1019:ARG:NE	1:C:1017:GLU:OE1	2.46	0.49
1:B:985:ASP:OD2	1:B:987:PRO:HD2	2.13	0.49
1:A:777:ASN:O	1:A:781:VAL:HG12	2.12	0.49
1:A:898:PHE:N	1:C:707:TYR:OH	2.44	0.49
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.95	0.49
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.95	0.49
1:A:731:MET:H	1:A:774:GLN:HE21	1.60	0.49
1:A:905:ARG:NH1	1:A:1036:GLN:HB2	2.28	0.49
1:B:55:PHE:HB2	1:B:273:ARG:HB2	1.95	0.49
1:B:376:THR:HB	1:B:435:ALA:HB3	1.94	0.49
1:C:310:LYS:HG3	1:C:600:PRO:HA	1.94	0.49
1:B:1039:ARG:HB3	1:C:1031:GLU:OE1	2.12	0.49
1:C:946:GLY:HA2	1:C:949:GLN:HB2	1.93	0.49
1:A:552:LEU:HB3	1:A:585:LEU:HD23	1.94	0.49
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.27	0.49
1:C:1019:ARG:O	1:C:1023:ASN:ND2	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.95	0.49
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.94	0.49
1:B:26:PRO:HA	1:B:65:PHE:HE1	1.78	0.49
1:C:206:LYS:HE2	1:C:208:THR:HB	1.93	0.49
1:A:205:SER:O	1:A:224:GLU:N	2.45	0.49
1:A:1040:VAL:O	1:B:1030:SER:OG	2.31	0.49
1:B:423:TYR:OH	1:B:514:SER:OG	2.29	0.49
1:B:296:LEU:HB3	1:B:608:VAL:HG21	1.95	0.49
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.46	0.49
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.95	0.49
1:B:287:ASP:OD1	1:B:288:ALA:N	2.46	0.49
1:B:457:ARG:NH2	1:B:459:SER:OG	2.45	0.49
1:A:535:LYS:NZ	1:A:554:GLU:OE1	2.36	0.49
1:C:1052:PHE:HB2	1:C:1063:LEU:HB2	1.93	0.49
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.95	0.49
1:B:53:ASP:OD2	1:B:54:LEU:N	2.42	0.49
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.95	0.49
1:A:733:LYS:NZ	1:A:862:PRO:O	2.45	0.49
1:A:857:GLY:HA2	1:C:592:PHE:HZ	1.78	0.49
1:A:767:LEU:HA	1:A:770:ILE:HG22	1.94	0.49
1:B:1091:ARG:NH1	1:B:1120:THR:O	2.46	0.49
1:C:802:PHE:HE1	1:C:927:PHE:HE1	1.61	0.49
1:A:788:ILE:HD11	1:C:699:LEU:HB3	1.95	0.49
1:C:298:GLU:O	1:C:302:THR:OG1	2.25	0.49
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.94	0.49
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.93	0.49
1:A:903:ALA:HB1	1:A:913:GLN:HG2	1.95	0.49
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	1.94	0.49
1:B:271:GLN:HG2	1:B:273:ARG:HH21	1.77	0.49
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.94	0.49
1:A:755:GLN:O	1:C:968:SER:OG	2.25	0.49
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.77	0.49
1:B:914:ASN:N	1:B:914:ASN:OD1	2.43	0.49
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.77	0.49
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.94	0.49
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.26	0.49
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.95	0.49
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.95	0.49
1:C:1027:THR:HG22	1:C:1042:PHE:HZ	1.78	0.49
1:B:189:LEU:HD13	1:B:210:ILE:HD11	1.95	0.49
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:69:HIS:O	1:C:77:LYS:N	2.46	0.49
1:A:735:SER:OG	1:A:859:THR:OG1	2.27	0.49
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.95	0.49
1:B:957:GLN:HE21	1:C:765:ARG:HE	1.59	0.49
1:A:473:TYR:H	1:A:491:PRO:HD3	1.76	0.49
1:B:287:ASP:OD1	1:B:288:ALA:N	2.46	0.49
1:A:1129:VAL:HG22	1:B:917:TYR:HB3	1.94	0.49
1:C:189:LEU:HD22	1:C:210:ILE:HD13	1.95	0.49
1:C:578:ASP:OD2	1:C:581:THR:OG1	2.30	0.49
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.95	0.49
1:C:971:GLY:O	1:C:995:ARG:NH1	2.46	0.49
1:B:666:ILE:HD11	1:B:672:ALA:HB2	1.95	0.49
1:A:717:ASN:OD1	1:A:718:PHE:N	2.46	0.49
1:C:521:PRO:HG3	1:C:564:GLN:HE21	1.78	0.49
1:A:592:PHE:HZ	1:B:857:GLY:HA2	1.78	0.49
1:B:977:LEU:HD21	1:B:996:LEU:HD23	1.94	0.49
1:A:1040:VAL:N	1:B:1031:GLU:OE2	2.46	0.49
1:B:1030:SER:HA	1:B:1034:LEU:HD12	1.95	0.49
1:C:329:PHE:HD2	1:C:528:LYS:HB3	1.78	0.49
1:A:92:PHE:HB2	1:A:192:PHE:HB2	1.95	0.49
1:A:765:ARG:NH2	1:C:957:GLN:OE1	2.46	0.49
1:B:328:ARG:HH12	1:B:533:LEU:HD22	1.78	0.49
1:A:1012:LEU:HB3	1:C:1013:ILE:HG21	1.94	0.49
1:C:333:THR:OG1	1:C:360:ASN:OD1	2.30	0.49
1:C:769:GLY:HA2	1:C:772:VAL:HG12	1.95	0.49
1:C:965:GLN:O	1:C:968:SER:OG	2.31	0.49
1:C:108:THR:OG1	1:C:234:ASN:O	2.31	0.49
1:A:31:SER:HB3	1:A:34:ARG:HB2	1.95	0.49
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.95	0.49
1:B:392:PHE:HD2	1:B:515:PHE:HD1	1.59	0.49
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.95	0.49
1:A:765:ARG:HD2	1:C:957:GLN:OE1	2.13	0.49
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.94	0.49
1:A:1033:VAL:HG22	1:A:1051:SER:HB2	1.95	0.49
1:B:760:CYS:HA	1:B:763:LEU:HG	1.95	0.49
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.95	0.49
1:A:902:MET:HB2	1:A:916:LEU:HD21	1.94	0.49
1:B:96:GLU:OE1	1:B:100:ILE:N	2.46	0.49
1:B:310:LYS:HG2	1:B:664:ILE:HD11	1.94	0.49
1:C:222:ALA:HB2	1:C:285:ILE:HB	1.95	0.49
1:B:866:THR:H	1:B:869:MET:HE3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:560:LEU:HB2	1:C:563:GLN:HG2	1.93	0.48
1:C:1014:ARG:HA	1:C:1017:GLU:HG3	1.96	0.48
1:B:1028:LYS:NZ	1:B:1032:CYS:SG	2.79	0.48
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.95	0.48
1:C:813:SER:OG	1:C:868:GLU:OE2	2.27	0.48
1:C:1081:ILE:HG13	1:C:1115:ILE:HD13	1.93	0.48
1:A:813:SER:OG	1:A:868:GLU:OE2	2.25	0.48
1:A:825:LYS:HD3	1:A:942:ALA:HA	1.94	0.48
1:B:392:PHE:HD2	1:B:517:LEU:HD13	1.78	0.48
1:C:65:PHE:O	1:C:66:HIS:ND1	2.39	0.48
1:C:905:ARG:NH1	1:C:1049:LEU:O	2.46	0.48
1:A:825:LYS:NZ	1:A:938:LEU:O	2.40	0.48
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.95	0.48
1:A:984:LEU:HB2	1:A:989:ALA:HB2	1.96	0.48
1:B:898:PHE:HA	1:B:901:GLN:HB3	1.95	0.48
1:B:1107:ARG:HH22	1:C:904:TYR:HB2	1.77	0.48
1:A:707:TYR:HE2	1:B:897:PRO:HA	1.78	0.48
1:B:96:GLU:OE1	1:B:100:ILE:N	2.46	0.48
1:B:598:ILE:HB	1:B:609:ALA:HB3	1.94	0.48
1:B:774:GLN:HA	1:B:777:ASN:HD21	1.78	0.48
1:B:1052:PHE:HB2	1:B:1063:LEU:HB2	1.95	0.48
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.95	0.48
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.95	0.48
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.45	0.48
1:B:406:GLU:HB3	1:B:410:ILE:HD12	1.95	0.48
1:C:741:TYR:HD1	1:C:742:ILE:HD13	1.78	0.48
1:C:807:PRO:HA	1:C:816:SER:HA	1.95	0.48
1:C:1081:ILE:HG23	1:C:1135:ASN:HB2	1.94	0.48
1:B:49:HIS:CE1	1:B:51:THR:HG22	2.48	0.48
1:C:905:ARG:HH11	1:C:1050:MET:HE2	1.78	0.48
1:C:454:ARG:NH1	1:C:467:ASP:OD2	2.46	0.48
1:B:617:CYS:N	1:B:649:CYS:SG	2.82	0.48
1:A:881:THR:HG23	1:A:882:ILE:HD13	1.96	0.48
1:B:773:GLU:OE1	1:B:1019:ARG:NH2	2.39	0.48
1:B:773:GLU:OE1	1:B:777:ASN:ND2	2.46	0.48
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.95	0.48
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.93	0.48
1:A:930:ALA:HA	1:A:933:LYS:HE2	1.95	0.48
1:B:203:ILE:HG23	1:B:227:VAL:H	1.77	0.48
1:A:825:LYS:HD3	1:A:942:ALA:HA	1.95	0.48
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:THR:OG1	1:A:219:GLY:O	2.29	0.48
1:A:881:THR:HG23	1:A:882:ILE:HD13	1.94	0.48
1:B:357:ARG:NH2	1:C:230:PRO:O	2.46	0.48
1:A:302:THR:HG21	1:A:315:THR:HG22	1.96	0.48
1:B:551:VAL:N	1:B:588:THR:O	2.41	0.48
1:B:52:GLN:OE1	1:B:274:THR:OG1	2.29	0.48
1:B:735:SER:HA	1:B:767:LEU:HG	1.95	0.48
1:B:858:LEU:HD21	1:B:962:LEU:HD23	1.94	0.48
1:C:31:SER:HB2	1:C:34:ARG:HB2	1.95	0.48
1:C:310:LYS:HG2	1:C:664:ILE:HD11	1.94	0.48
1:C:1015:ALA:HA	1:C:1018:ILE:HG22	1.95	0.48
1:B:665:PRO:HB2	1:C:864:LEU:HD11	1.96	0.48
1:B:316:SER:OG	1:B:317:ASN:N	2.46	0.48
1:A:645:THR:HG23	1:A:647:ALA:H	1.79	0.48
1:A:15:CYS:HA	1:A:137:ASN:HB2	1.95	0.48
1:B:318:PHE:HE2	1:B:615:VAL:HG21	1.78	0.48
1:B:971:GLY:H	1:C:755:GLN:HE22	1.60	0.48
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.41	0.48
1:C:1015:ALA:HA	1:C:1018:ILE:HG22	1.94	0.48
1:A:43:PHE:H	1:C:566:GLY:HA2	1.79	0.48
1:B:733:LYS:HE3	1:B:771:ALA:HB1	1.94	0.48
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.94	0.48
1:A:1043:CYS:O	1:A:1064:HIS:ND1	2.46	0.48
1:A:107:GLY:H	1:A:235:ILE:HG23	1.78	0.48
1:C:742:ILE:HG12	1:C:997:ILE:HG22	1.96	0.48
1:C:978:ASN:O	1:C:982:SER:OG	2.28	0.48
1:A:914:ASN:OD1	1:A:914:ASN:N	2.46	0.48
1:C:552:LEU:HB3	1:C:585:LEU:HD23	1.96	0.48
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.47	0.48
1:B:873:TYR:O	1:B:877:LEU:HB2	2.14	0.48
1:C:299:THR:HG22	1:C:597:VAL:HG11	1.96	0.48
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.95	0.48
1:B:443:SER:HB3	1:B:499:PRO:HG3	1.96	0.48
1:B:68:ILE:HG12	1:B:78:ARG:HB2	1.96	0.48
1:C:960:ASN:HA	1:C:963:VAL:HG22	1.95	0.48
1:B:108:THR:OG1	1:B:234:ASN:O	2.30	0.48
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.60	0.48
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.96	0.48
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.96	0.48
1:B:642:VAL:HG13	1:B:651:ILE:HG22	1.95	0.48
1:C:472:ILE:HA	1:C:491:PRO:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:737:ASP:OD1	1:C:740:MET:HB3	2.14	0.48
1:A:676:THR:HA	1:A:690:GLN:HG2	1.94	0.48
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.95	0.48
1:C:99:ASN:O	1:C:102:ARG:NH2	2.45	0.48
1:C:710:ASN:OD1	1:C:710:ASN:N	2.41	0.48
1:B:912:THR:HG22	1:B:914:ASN:H	1.78	0.48
1:C:326:ILE:HD11	1:C:534:VAL:HB	1.96	0.48
1:B:24:LEU:HD12	1:B:80:ALA:HB2	1.95	0.48
1:B:864:LEU:HG	1:B:865:LEU:HD23	1.95	0.48
1:C:293:LEU:HD23	1:C:294:ASP:HB3	1.95	0.48
1:B:898:PHE:HA	1:B:901:GLN:HB3	1.94	0.48
1:A:58:PHE:HB2	1:A:293:LEU:HD21	1.93	0.48
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.96	0.48
1:B:851:CYS:HA	1:B:854:LYS:HE2	1.95	0.48
1:C:1100:THR:OG1	1:C:1101:HIS:N	2.47	0.48
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.96	0.48
1:C:578:ASP:OD2	1:C:581:THR:N	2.45	0.48
1:A:1043:CYS:O	1:A:1064:HIS:ND1	2.45	0.48
1:A:287:ASP:OD1	1:A:288:ALA:N	2.45	0.48
1:C:886:TRP:HH2	1:C:904:TYR:HB3	1.78	0.48
1:A:476:GLY:H	1:A:487:ASN:HB3	1.79	0.48
1:A:869:MET:HG2	1:C:699:LEU:HD11	1.96	0.48
1:A:767:LEU:HA	1:A:770:ILE:HG12	1.96	0.48
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.96	0.48
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.94	0.48
1:A:961:THR:HA	1:A:964:LYS:HD2	1.93	0.48
1:B:40:ASP:OD2	1:B:41:LYS:N	2.46	0.48
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.96	0.48
1:B:442:ASP:OD1	1:B:509:ARG:NH2	2.44	0.48
1:C:777:ASN:O	1:C:781:VAL:HG12	2.13	0.48
1:B:287:ASP:OD1	1:B:288:ALA:N	2.47	0.48
1:C:224:GLU:N	1:C:224:GLU:OE1	2.46	0.48
1:C:763:LEU:HD22	1:C:1008:VAL:HG21	1.94	0.48
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.96	0.48
1:A:770:ILE:HD12	1:A:1015:ALA:HB2	1.96	0.48
1:C:108:THR:OG1	1:C:234:ASN:O	2.31	0.48
1:A:108:THR:O	1:A:237:ARG:NH1	2.46	0.48
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.48
1:A:1116:THR:HG22	1:A:1138:TYR:HD2	1.78	0.48
1:A:102:ARG:NH1	1:A:121:ASN:O	2.44	0.48
1:C:819:GLU:HA	1:C:822:LEU:HG	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1010:GLN:OE1	1:A:1014:ARG:NH1	2.47	0.48
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.96	0.48
1:B:1118:ASP:OD2	1:B:1118:ASP:N	2.44	0.48
1:C:886:TRP:HB3	1:C:1035:GLY:HA2	1.96	0.48
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.38	0.48
1:B:722:VAL:HG12	1:B:930:ALA:HB1	1.95	0.48
1:C:1102:TRP:HB2	1:C:1135:ASN:HD22	1.78	0.48
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.95	0.48
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.95	0.48
1:C:185:ASN:ND2	1:C:212:LEU:O	2.46	0.48
1:C:328:ARG:HH22	1:C:532:ASN:HA	1.78	0.48
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.95	0.48
1:B:394:ASN:HB2	1:B:516:GLU:HB2	1.96	0.48
1:C:17:ASN:HB2	1:C:21:ARG:HD3	1.95	0.48
1:C:983:ARG:HG3	1:C:984:LEU:HD22	1.94	0.48
1:A:1010:GLN:HE22	1:A:1014:ARG:HD3	1.79	0.48
1:B:954:GLN:HA	1:B:957:GLN:HG3	1.95	0.48
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.96	0.48
1:B:977:LEU:HD21	1:B:996:LEU:HD23	1.96	0.48
1:B:310:LYS:HG2	1:B:664:ILE:HD11	1.94	0.48
1:B:1084:ASP:OD2	1:B:1086:LYS:NZ	2.46	0.48
1:B:1123:SER:OG	1:C:914:ASN:OD1	2.27	0.48
1:A:699:LEU:HD11	1:B:869:MET:HB3	1.95	0.48
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.96	0.48
1:A:777:ASN:O	1:A:781:VAL:HG12	2.13	0.48
1:B:977:LEU:HD21	1:B:996:LEU:HD23	1.95	0.48
1:C:473:TYR:H	1:C:491:PRO:HG2	1.79	0.48
1:A:296:LEU:O	1:A:299:THR:OG1	2.30	0.48
1:A:971:GLY:O	1:A:995:ARG:NH1	2.47	0.48
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.96	0.48
1:A:719:THR:HG23	1:A:1070:ALA:HB2	1.95	0.48
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.94	0.48
1:A:731:MET:HB3	1:A:774:GLN:HE22	1.79	0.48
1:B:642:VAL:HG13	1:B:651:ILE:HG22	1.95	0.48
1:B:725:GLU:OE1	1:B:1064:HIS:NE2	2.46	0.48
1:B:14:GLN:N	1:B:255:SER:OG	2.42	0.48
1:B:189:LEU:HD22	1:B:210:ILE:HD13	1.95	0.48
1:B:901:GLN:HE21	1:B:905:ARG:HE	1.60	0.48
1:A:1086:LYS:HA	1:A:1125:ASN:HA	1.95	0.48
1:B:18:PHE:HB2	1:B:21:ARG:HB2	1.96	0.48
1:B:117:LEU:HD13	1:B:235:ILE:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:182:LYS:HD3	1:B:187:LYS:HD2	1.94	0.48
1:C:729:VAL:HG12	1:C:1059:GLY:HA2	1.95	0.48
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	1.96	0.48
1:A:53:ASP:OD2	1:A:195:LYS:NZ	2.43	0.48
1:C:906:PHE:HA	1:C:909:ILE:HG12	1.95	0.48
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.95	0.48
1:B:737:ASP:OD1	1:B:740:MET:HB2	2.14	0.48
1:A:611:LEU:HB2	1:A:650:LEU:HD13	1.94	0.48
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.79	0.48
1:B:878:LEU:O	1:B:882:ILE:HG12	2.13	0.48
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.41	0.48
1:B:287:ASP:OD2	1:B:288:ALA:N	2.47	0.48
1:B:1009:THR:O	1:B:1013:ILE:HG13	2.13	0.48
1:B:96:GLU:OE1	1:B:100:ILE:N	2.47	0.48
1:B:736:VAL:HG22	1:B:858:LEU:HG	1.95	0.48
1:C:172:SER:OG	1:C:173:GLN:N	2.45	0.48
1:A:777:ASN:OD1	1:A:1019:ARG:NH2	2.47	0.48
1:A:802:PHE:HD1	1:A:805:ILE:HD11	1.78	0.48
1:B:896:ILE:HD12	1:B:897:PRO:HD2	1.96	0.48
1:C:40:ASP:OD2	1:C:41:LYS:N	2.44	0.48
1:B:104:TRP:HB2	1:B:106:PHE:CE1	2.49	0.48
1:C:916:LEU:O	1:C:920:GLN:HB2	2.14	0.48
1:C:870:ILE:HD12	1:C:1055:SER:HB2	1.95	0.48
1:B:126:VAL:HB	1:B:172:SER:HB3	1.95	0.48
1:C:777:ASN:O	1:C:781:VAL:HG12	2.13	0.48
1:A:733:LYS:NZ	1:A:862:PRO:O	2.46	0.48
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.42	0.48
1:A:1040:VAL:HG11	1:B:1035:GLY:HA3	1.96	0.48
1:B:152:TRP:HB3	1:B:179:LEU:HD12	1.96	0.48
1:C:311:GLY:HA2	1:C:664:ILE:HD12	1.96	0.48
1:C:763:LEU:HD13	1:C:1008:VAL:HG11	1.95	0.48
1:B:332:ILE:HG12	1:B:524:VAL:HG22	1.96	0.48
1:A:273:ARG:HH22	1:A:293:LEU:HB2	1.78	0.48
1:A:905:ARG:HH12	1:A:1036:GLN:HB2	1.79	0.48
1:B:421:TYR:HE2	1:B:457:ARG:H	1.61	0.48
1:C:650:LEU:HD21	1:C:653:ALA:HB3	1.96	0.48
1:B:355:ARG:HH22	1:B:464:PHE:HE2	1.62	0.48
1:C:898:PHE:HA	1:C:901:GLN:HB2	1.96	0.48
1:A:200:TYR:HD1	1:A:202:LYS:HE3	1.78	0.48
1:C:819:GLU:HA	1:C:822:LEU:HD12	1.96	0.48
1:A:784:GLN:HG3	1:A:1034:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:172:SER:OG	1:B:173:GLN:N	2.47	0.48
1:C:742:ILE:HG21	1:C:753:LEU:HD22	1.95	0.48
1:A:58:PHE:HB2	1:A:293:LEU:HD21	1.96	0.48
1:C:193:VAL:HG13	1:C:223:LEU:HD22	1.96	0.48
1:C:879:ALA:HA	1:C:882:ILE:HG22	1.94	0.48
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.94	0.48
1:B:722:VAL:HG12	1:B:930:ALA:HB1	1.95	0.48
1:B:858:LEU:HD23	1:B:959:LEU:HD12	1.94	0.48
1:A:707:TYR:HB3	1:B:792:PRO:HG3	1.96	0.48
1:C:287:ASP:OD1	1:C:288:ALA:N	2.47	0.48
1:A:393:THR:HA	1:A:522:ALA:HA	1.95	0.48
1:A:914:ASN:HD21	1:C:1121:PHE:HE1	1.62	0.48
1:C:299:THR:HG22	1:C:597:VAL:HG11	1.96	0.48
1:B:18:PHE:HB2	1:B:21:ARG:HB2	1.95	0.48
1:B:106:PHE:HB3	1:B:235:ILE:HD13	1.96	0.48
1:C:597:VAL:HG23	1:C:608:VAL:HG13	1.96	0.48
1:B:394:ASN:HB2	1:B:516:GLU:HB2	1.96	0.48
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.96	0.48
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.94	0.48
1:A:777:ASN:O	1:A:781:VAL:HG12	2.14	0.48
1:B:287:ASP:OD1	1:B:288:ALA:N	2.47	0.48
1:A:1031:GLU:OE2	1:C:1039:ARG:NE	2.47	0.48
1:B:332:ILE:HA	1:B:524:VAL:HG22	1.96	0.48
1:C:99:ASN:OD1	1:C:190:ARG:NE	2.46	0.48
1:A:731:MET:H	1:A:774:GLN:HE21	1.60	0.48
1:C:759:PHE:HD2	1:C:1001:LEU:HD11	1.79	0.48
1:C:1081:ILE:HG13	1:C:1115:ILE:HD13	1.95	0.48
1:B:957:GLN:O	1:B:961:THR:HG23	2.14	0.48
1:C:717:ASN:OD1	1:C:718:PHE:N	2.46	0.48
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.95	0.48
1:A:776:LYS:NZ	1:A:780:GLU:OE2	2.42	0.48
1:C:1083:HIS:HB3	1:C:1088:HIS:CE1	2.46	0.48
1:A:1041:ASP:HB3	1:B:1030:SER:HB2	1.96	0.48
1:C:454:ARG:NH1	1:C:467:ASP:OD2	2.46	0.48
1:A:319:ARG:HH22	1:B:740:MET:HB2	1.78	0.48
1:A:1043:CYS:O	1:A:1064:HIS:ND1	2.47	0.48
1:B:108:THR:OG1	1:B:234:ASN:O	2.32	0.48
1:A:123:ALA:HB1	1:A:179:LEU:HD11	1.96	0.48
1:B:108:THR:OG1	1:B:234:ASN:O	2.31	0.48
1:C:866:THR:OG1	1:C:867:ASP:N	2.47	0.48
1:C:1015:ALA:HA	1:C:1018:ILE:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.96	0.48
1:C:334:ASN:OD1	1:C:335:LEU:N	2.43	0.48
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.95	0.48
1:B:1049:LEU:HB2	1:B:1065:VAL:HG13	1.95	0.48
1:A:731:MET:HG2	1:A:955:ASN:OD1	2.14	0.48
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.79	0.48
1:B:311:GLY:HA2	1:B:664:ILE:HD12	1.94	0.48
1:C:334:ASN:OD1	1:C:335:LEU:N	2.43	0.48
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.96	0.48
1:A:310:LYS:HG2	1:A:664:ILE:HD11	1.96	0.48
1:A:562:PHE:HD2	1:B:41:LYS:HZ2	1.59	0.48
1:C:1102:TRP:HB2	1:C:1135:ASN:HD22	1.78	0.48
1:A:717:ASN:OD1	1:A:718:PHE:N	2.47	0.48
1:B:951:VAL:HA	1:B:954:GLN:HG3	1.95	0.48
1:C:108:THR:OG1	1:C:234:ASN:O	2.32	0.48
1:C:1086:LYS:HD2	1:C:1122:VAL:HB	1.95	0.48
1:B:101:ILE:HB	1:B:190:ARG:HH22	1.78	0.48
1:B:204:TYR:HD1	1:B:225:PRO:HA	1.79	0.48
1:B:825:LYS:HZ2	1:B:942:ALA:HA	1.79	0.48
1:B:53:ASP:OD2	1:B:54:LEU:N	2.41	0.48
1:C:310:LYS:HG3	1:C:600:PRO:HA	1.96	0.48
1:C:984:LEU:HD12	1:C:985:ASP:H	1.77	0.48
1:C:454:ARG:NH1	1:C:467:ASP:OD2	2.47	0.48
1:A:666:ILE:HG12	1:A:671:CYS:HA	1.96	0.48
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.31	0.48
1:B:699:LEU:HB2	1:C:788:ILE:HD11	1.96	0.48
1:C:310:LYS:HG2	1:C:664:ILE:HD11	1.96	0.48
1:C:737:ASP:HB3	1:C:740:MET:HG2	1.96	0.48
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.96	0.48
1:C:1120:THR:OG1	1:C:1121:PHE:N	2.46	0.48
1:A:699:LEU:HB2	1:B:788:ILE:HD11	1.95	0.48
1:B:957:GLN:HB3	1:C:765:ARG:HH12	1.79	0.48
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.95	0.48
1:B:404:GLY:HA3	1:B:504:GLY:HA2	1.96	0.48
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.95	0.48
1:A:825:LYS:HD2	1:A:945:LEU:HD22	1.95	0.48
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.95	0.47
1:A:552:LEU:HB3	1:A:585:LEU:HD23	1.95	0.47
1:B:108:THR:O	1:B:237:ARG:NH2	2.46	0.47
1:A:193:VAL:HG23	1:A:270:LEU:HD21	1.96	0.47
1:A:205:SER:N	1:A:224:GLU:O	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:ASN:OD1	1:B:523:THR:OG1	2.30	0.47
1:C:966:LEU:O	1:C:975:SER:OG	2.31	0.47
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.96	0.47
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.95	0.47
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.96	0.47
1:A:592:PHE:HZ	1:B:857:GLY:HA2	1.77	0.47
1:A:767:LEU:HA	1:A:770:ILE:HG12	1.95	0.47
1:B:120:VAL:HG22	1:B:241:LEU:HD11	1.95	0.47
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.49	0.47
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.95	0.47
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.31	0.47
1:A:1012:LEU:HG	1:C:1013:ILE:HG13	1.95	0.47
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.40	0.47
1:C:731:MET:HB2	1:C:955:ASN:HD21	1.79	0.47
1:A:717:ASN:OD1	1:A:718:PHE:N	2.47	0.47
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.95	0.47
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.34	0.47
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.96	0.47
1:A:206:LYS:HB2	1:A:223:LEU:HA	1.95	0.47
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.95	0.47
1:A:81:ASN:OD1	1:A:239:GLN:NE2	2.46	0.47
1:B:92:PHE:HE2	1:B:94:SER:HB2	1.79	0.47
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.47	0.47
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.47	0.47
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.97	0.47
1:A:731:MET:HE2	1:A:1018:ILE:HG13	1.96	0.47
1:B:898:PHE:HA	1:B:901:GLN:HB3	1.95	0.47
1:B:1118:ASP:OD1	1:B:1118:ASP:N	2.38	0.47
1:B:990:GLU:HA	1:B:993:ILE:HD12	1.95	0.47
1:B:37:TYR:OH	1:B:54:LEU:O	2.21	0.47
1:B:731:MET:SD	1:B:774:GLN:NE2	2.87	0.47
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.97	0.47
1:A:904:TYR:HB2	1:C:1107:ARG:NH1	2.28	0.47
1:A:104:TRP:HD1	1:A:240:THR:HG23	1.79	0.47
1:A:866:THR:OG1	1:A:869:MET:SD	2.66	0.47
1:B:796:ASP:N	1:B:796:ASP:OD2	2.47	0.47
1:C:884:SER:OG	1:C:894:LEU:N	2.47	0.47
1:C:784:GLN:HE21	1:C:1029:MET:HG3	1.79	0.47
1:A:596:SER:HB2	1:A:611:LEU:HB3	1.96	0.47
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.41	0.47
1:A:611:LEU:HD12	1:A:650:LEU:HD13	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:332:ILE:HA	1:B:524:VAL:HG22	1.97	0.47
1:B:357:ARG:NH2	1:B:394:ASN:OD1	2.48	0.47
1:C:912:THR:HG23	1:C:914:ASN:HB2	1.95	0.47
1:A:566:GLY:HA2	1:B:43:PHE:H	1.78	0.47
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.95	0.47
1:A:43:PHE:H	1:C:566:GLY:HA2	1.79	0.47
1:B:1040:VAL:HG21	1:C:1035:GLY:HA3	1.97	0.47
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.79	0.47
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.96	0.47
1:A:212:LEU:HD13	1:A:217:PRO:HD3	1.96	0.47
1:B:293:LEU:HD23	1:B:294:ASP:HB2	1.96	0.47
1:A:100:ILE:HG23	1:A:247:SER:HB3	1.96	0.47
1:A:1019:ARG:NH1	1:A:1023:ASN:OD1	2.47	0.47
1:B:551:VAL:HB	1:B:588:THR:HB	1.97	0.47
1:B:1084:ASP:OD2	1:B:1086:LYS:NZ	2.47	0.47
1:C:538:CYS:HB2	1:C:590:CYS:HB3	1.53	0.47
1:A:765:ARG:HD3	1:C:957:GLN:HE22	1.79	0.47
1:B:92:PHE:HE1	1:B:94:SER:HB2	1.79	0.47
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.95	0.47
1:C:553:THR:O	1:C:586:ASP:N	2.44	0.47
1:B:387:LEU:HD23	1:B:390:LEU:HD12	1.95	0.47
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.97	0.47
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.96	0.47
1:A:881:THR:HG23	1:A:882:ILE:HD13	1.95	0.47
1:B:24:LEU:HD11	1:B:78:ARG:HB3	1.96	0.47
1:B:108:THR:OG1	1:B:234:ASN:O	2.32	0.47
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.96	0.47
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.96	0.47
1:B:1039:ARG:HB3	1:C:1031:GLU:OE1	2.14	0.47
1:A:767:LEU:HA	1:A:770:ILE:HG12	1.96	0.47
1:A:201:PHE:HD2	1:A:229:LEU:HD23	1.78	0.47
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.95	0.47
1:A:717:ASN:OD1	1:A:718:PHE:N	2.46	0.47
1:B:912:THR:HG22	1:B:914:ASN:H	1.80	0.47
1:B:971:GLY:O	1:B:995:ARG:NH2	2.47	0.47
1:C:131:CYS:HB2	1:C:133:PHE:CE1	2.48	0.47
1:A:1041:ASP:OD2	1:B:1030:SER:HB2	2.13	0.47
1:A:767:LEU:HD13	1:A:770:ILE:HD12	1.95	0.47
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.95	0.47
1:A:741:TYR:HD1	1:A:1004:LEU:HD22	1.77	0.47
1:B:663:ASP:N	1:B:671:CYS:SG	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:746:SER:OG	1:B:748:GLU:OE1	2.30	0.47
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.14	0.47
1:A:567:ARG:HD3	1:A:571:ASP:HA	1.96	0.47
1:C:99:ASN:O	1:C:102:ARG:NH1	2.47	0.47
1:C:1009:THR:O	1:C:1013:ILE:HG13	2.14	0.47
1:B:57:PRO:HG3	1:B:273:ARG:HG3	1.96	0.47
1:A:983:ARG:HG3	1:A:984:LEU:HD23	1.95	0.47
1:A:984:LEU:HB3	1:A:988:GLU:HG2	1.96	0.47
1:A:1049:LEU:HD12	1:A:1065:VAL:HG12	1.95	0.47
1:A:1129:VAL:HG22	1:B:917:TYR:HB3	1.96	0.47
1:B:299:THR:HG22	1:B:597:VAL:HG11	1.95	0.47
1:A:37:TYR:OH	1:A:53:ASP:OD2	2.28	0.47
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.96	0.47
1:C:901:GLN:HE22	1:C:905:ARG:CZ	2.28	0.47
1:B:53:ASP:OD2	1:B:54:LEU:N	2.43	0.47
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.14	0.47
1:B:361:CYS:HB3	1:B:524:VAL:O	2.15	0.47
1:B:763:LEU:HD22	1:B:1008:VAL:HG21	1.95	0.47
1:B:214:ARG:NH1	1:B:215:GLY:H	2.13	0.47
1:B:663:ASP:N	1:B:671:CYS:SG	2.86	0.47
1:B:741:TYR:HE1	1:B:1004:LEU:HB2	1.79	0.47
1:C:866:THR:OG1	1:C:867:ASP:N	2.47	0.47
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.96	0.47
1:B:456:PHE:HE2	1:B:475:ALA:HA	1.79	0.47
1:A:1047:TYR:HB2	1:A:1067:TYR:HB3	1.95	0.47
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.14	0.47
1:B:159:VAL:HG12	1:B:160:TYR:CD2	2.50	0.47
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.47	0.47
1:B:106:PHE:HB2	1:B:117:LEU:HB3	1.95	0.47
1:B:1014:ARG:HA	1:B:1017:GLU:HG3	1.96	0.47
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.47	0.47
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.97	0.47
1:A:19:THR:HG23	1:A:256:SER:HB2	1.97	0.47
1:C:576:VAL:HG22	1:C:587:ILE:HD11	1.97	0.47
1:B:295:PRO:HA	1:B:298:GLU:OE1	2.14	0.47
1:C:326:ILE:HD11	1:C:534:VAL:HB	1.97	0.47
1:A:206:LYS:HE2	1:A:208:THR:HB	1.95	0.47
1:A:909:ILE:HG13	1:A:911:VAL:HG23	1.96	0.47
1:C:314:GLN:OE1	1:C:315:THR:N	2.47	0.47
1:B:48:LEU:O	1:B:304:LYS:NZ	2.47	0.47
1:B:749:CYS:O	1:B:753:LEU:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:930:ALA:HA	1:A:933:LYS:HE2	1.97	0.47
1:A:702:GLU:HA	1:B:788:ILE:HB	1.96	0.47
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	1.95	0.47
1:B:642:VAL:HG22	1:B:651:ILE:HG22	1.96	0.47
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.95	0.47
1:C:554:GLU:HA	1:C:585:LEU:HA	1.96	0.47
1:B:314:GLN:NE2	1:B:316:SER:O	2.47	0.47
1:A:955:ASN:HD22	1:A:955:ASN:HA	1.53	0.47
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.27	0.47
1:B:37:TYR:OH	1:B:53:ASP:OD2	2.32	0.47
1:B:1094:VAL:HG13	1:B:1107:ARG:HH21	1.79	0.47
1:A:108:THR:O	1:A:237:ARG:NH1	2.48	0.47
1:A:726:ILE:HD11	1:A:948:LEU:HD11	1.95	0.47
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.97	0.47
1:A:1049:LEU:HB2	1:A:1065:VAL:HG12	1.96	0.47
1:A:702:GLU:HG2	1:B:790:LYS:NZ	2.29	0.47
1:A:717:ASN:OD1	1:A:718:PHE:N	2.48	0.47
1:B:206:LYS:HB2	1:B:223:LEU:HA	1.96	0.47
1:C:140:PHE:HZ	1:C:255:SER:HB2	1.79	0.47
1:B:1039:ARG:NE	1:C:1031:GLU:OE2	2.35	0.47
1:B:44:ARG:NH2	1:B:279:TYR:OH	2.47	0.47
1:B:276:LEU:HD12	1:B:301:CYS:HA	1.95	0.47
1:B:864:LEU:HG	1:B:865:LEU:HD22	1.96	0.47
1:C:484:LYS:HD2	1:C:490:PHE:HB2	1.96	0.47
1:C:560:LEU:HD22	1:C:563:GLN:HG3	1.95	0.47
1:A:1030:SER:HB2	1:C:1041:ASP:HB3	1.97	0.47
1:C:37:TYR:OH	1:C:195:LYS:NZ	2.41	0.47
1:A:759:PHE:HA	1:A:762:GLN:HG3	1.97	0.47
1:B:44:ARG:NH1	1:B:279:TYR:OH	2.47	0.47
1:B:1116:THR:OG1	1:B:1118:ASP:OD2	2.33	0.47
1:A:345:THR:O	1:A:509:ARG:NH2	2.48	0.47
1:A:1037:SER:OG	1:A:1043:CYS:SG	2.63	0.47
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.96	0.47
1:C:906:PHE:HB3	1:C:911:VAL:HB	1.96	0.47
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.97	0.47
1:A:826:VAL:HG23	1:A:945:LEU:HD22	1.95	0.47
1:C:192:PHE:HB3	1:C:203:ILE:HD11	1.96	0.47
1:A:103:GLY:HA3	1:A:119:ILE:O	2.14	0.47
1:B:332:ILE:HG12	1:B:524:VAL:HG13	1.96	0.47
1:C:1102:TRP:HB2	1:C:1135:ASN:HD22	1.79	0.47
1:A:57:PRO:HG3	1:A:273:ARG:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:717:ASN:OD1	1:A:718:PHE:N	2.48	0.47
1:A:1028:LYS:O	1:A:1032:CYS:HB2	2.14	0.47
1:B:361:CYS:H	1:B:522:ALA:HB1	1.80	0.47
1:B:430:THR:HG21	1:C:983:ARG:HE	1.80	0.47
1:A:289:VAL:HG11	1:A:300:LYS:HD2	1.96	0.47
1:B:777:ASN:O	1:B:781:VAL:HG12	2.15	0.47
1:B:973:ILE:HB	1:B:980:ILE:HD11	1.96	0.47
1:A:35:GLY:HA3	1:A:56:LEU:HB3	1.95	0.47
1:B:741:TYR:HE2	1:B:1004:LEU:HB2	1.80	0.47
1:C:56:LEU:HD22	1:C:91:TYR:HD1	1.79	0.47
1:B:108:THR:OG1	1:B:234:ASN:O	2.32	0.47
1:C:825:LYS:NZ	1:C:938:LEU:O	2.35	0.47
1:A:971:GLY:H	1:B:755:GLN:NE2	2.09	0.47
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.95	0.47
1:C:33:THR:OG1	1:C:219:GLY:O	2.31	0.47
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.96	0.47
1:A:904:TYR:HB2	1:C:1107:ARG:HH12	1.79	0.47
1:B:287:ASP:OD2	1:B:288:ALA:N	2.47	0.47
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.79	0.47
1:A:915:VAL:O	1:A:919:ASN:HB2	2.14	0.47
1:B:396:TYR:HB2	1:B:514:SER:HB2	1.97	0.47
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.97	0.47
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.96	0.47
1:A:347:PHE:HB2	1:A:401:VAL:HG23	1.97	0.47
1:B:189:LEU:HD12	1:B:189:LEU:HA	1.82	0.47
1:B:394:ASN:HD21	1:B:516:GLU:HB2	1.80	0.47
1:C:975:SER:O	1:C:1000:ARG:NH2	2.48	0.47
1:A:105:ILE:HB	1:A:241:LEU:HD21	1.97	0.47
1:A:212:LEU:HD13	1:A:217:PRO:HD3	1.97	0.47
1:A:295:PRO:HA	1:A:298:GLU:HG3	1.96	0.47
1:A:611:LEU:HD12	1:A:650:LEU:HD13	1.95	0.47
1:B:591:SER:HB3	1:B:615:VAL:HG23	1.97	0.47
1:C:726:ILE:HG13	1:C:1061:VAL:HG23	1.97	0.47
1:A:108:THR:OG1	1:A:234:ASN:O	2.29	0.47
1:A:946:GLY:HA2	1:A:949:GLN:HB3	1.97	0.47
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.96	0.47
1:C:84:LEU:HD22	1:C:267:VAL:HG11	1.97	0.47
1:C:616:ASN:OD1	1:C:644:GLN:NE2	2.39	0.47
1:A:765:ARG:HD2	1:C:957:GLN:HE22	1.79	0.47
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	1.96	0.47
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1015:ALA:HA	1:C:1018:ILE:HG22	1.95	0.47
1:A:777:ASN:O	1:A:781:VAL:HG12	2.14	0.47
1:C:214:ARG:HD2	1:C:215:GLY:N	2.30	0.47
1:C:552:LEU:HB3	1:C:585:LEU:HD12	1.97	0.47
1:A:320:VAL:HG13	1:A:590:CYS:HB3	1.97	0.47
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.33	0.47
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.97	0.47
1:C:311:GLY:HA2	1:C:664:ILE:HD12	1.97	0.47
1:C:457:ARG:NH1	1:C:459:SER:OG	2.45	0.47
1:A:950:ASP:N	1:A:950:ASP:OD1	2.43	0.47
1:B:108:THR:OG1	1:B:234:ASN:O	2.33	0.47
1:B:748:GLU:OE2	1:B:748:GLU:N	2.46	0.47
1:B:101:ILE:HA	1:B:246:ILE:HG21	1.96	0.47
1:C:710:ASN:OD1	1:C:710:ASN:N	2.43	0.47
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.47	0.47
1:B:201:PHE:HB3	1:B:229:LEU:HB2	1.97	0.47
1:C:40:ASP:OD1	1:C:41:LYS:N	2.39	0.47
1:C:710:ASN:OD1	1:C:710:ASN:N	2.42	0.47
1:C:1049:LEU:HB2	1:C:1065:VAL:HG23	1.96	0.47
1:A:189:LEU:HD22	1:A:210:ILE:HD13	1.95	0.47
1:A:711:SER:OG	1:B:895:GLN:NE2	2.48	0.47
1:C:778:THR:O	1:C:782:PHE:HB2	2.14	0.47
1:A:913:GLN:HE22	1:C:1090:PRO:HG2	1.79	0.47
1:B:713:ALA:HB2	1:C:895:GLN:HE21	1.80	0.47
1:C:759:PHE:O	1:C:763:LEU:HG	2.15	0.47
1:A:897:PRO:HD2	1:C:712:ILE:HD13	1.96	0.47
1:A:1013:ILE:HG21	1:B:1012:LEU:HB3	1.97	0.47
1:C:117:LEU:HD13	1:C:235:ILE:HD11	1.96	0.47
1:A:197:ILE:HB	1:A:202:LYS:HZ1	1.78	0.47
1:A:473:TYR:H	1:A:491:PRO:HD3	1.79	0.47
1:A:950:ASP:O	1:A:954:GLN:HG2	2.14	0.47
1:B:748:GLU:N	1:B:748:GLU:OE2	2.46	0.47
1:C:85:PRO:O	1:C:269:TYR:OH	2.28	0.47
1:C:866:THR:OG1	1:C:867:ASP:N	2.48	0.47
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.96	0.47
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.96	0.47
1:C:946:GLY:HA2	1:C:949:GLN:HB3	1.97	0.47
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.14	0.47
1:A:964:LYS:O	1:A:967:SER:OG	2.32	0.47
1:B:319:ARG:HH22	1:C:745:ASP:H	1.62	0.47
1:B:774:GLN:HE22	1:B:1018:ILE:HG21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:973:ILE:HG13	1:B:992:GLN:HE21	1.79	0.47
1:B:38:TYR:HE2	1:B:224:GLU:HG2	1.80	0.47
1:A:699:LEU:HD23	1:A:699:LEU:HA	1.83	0.47
1:B:188:ASN:OD1	1:B:207:HIS:NE2	2.38	0.47
1:B:206:LYS:HB2	1:B:223:LEU:HA	1.97	0.47
1:B:314:GLN:HE22	1:B:594:GLY:HA3	1.80	0.47
1:B:360:ASN:OD1	1:B:523:THR:OG1	2.28	0.47
1:B:809:PRO:O	1:B:814:LYS:NZ	2.47	0.47
1:B:1013:ILE:HG21	1:C:1012:LEU:HB3	1.95	0.47
1:C:177:MET:SD	1:C:207:HIS:ND1	2.87	0.47
1:C:350:VAL:HG22	1:C:401:VAL:H	1.79	0.47
1:C:484:LYS:HE3	1:C:489:TYR:HA	1.96	0.47
1:A:774:GLN:HE22	1:A:1018:ILE:HG12	1.80	0.47
1:C:722:VAL:HG12	1:C:930:ALA:HB1	1.96	0.47
1:B:969:ASN:HA	1:B:975:SER:HB3	1.97	0.47
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.97	0.47
1:C:214:ARG:NH2	1:C:266:TYR:OH	2.45	0.47
1:C:309:GLU:N	1:C:309:GLU:OE1	2.48	0.47
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.96	0.47
1:B:856:ASN:HD22	1:B:858:LEU:HD13	1.79	0.47
1:C:299:THR:HG22	1:C:597:VAL:HG11	1.96	0.47
1:A:726:ILE:HG13	1:A:948:LEU:HD13	1.97	0.47
1:B:361:CYS:HB3	1:B:524:VAL:O	2.15	0.47
1:B:377:PHE:HE1	1:B:432:CYS:HB3	1.80	0.47
1:C:906:PHE:HB3	1:C:911:VAL:HB	1.97	0.47
1:B:516:GLU:OE2	1:C:200:TYR:OH	2.27	0.47
1:B:717:ASN:OD1	1:B:718:PHE:N	2.47	0.47
1:C:329:PHE:HZ	1:C:544:ASN:H	1.63	0.47
1:A:857:GLY:HA2	1:C:592:PHE:CZ	2.50	0.47
1:A:1012:LEU:HB3	1:C:1013:ILE:HD13	1.96	0.47
1:B:49:HIS:CE1	1:B:51:THR:HG22	2.50	0.47
1:A:37:TYR:OH	1:A:53:ASP:OD2	2.28	0.47
1:B:91:TYR:HE1	1:B:93:ALA:HB2	1.79	0.47
1:C:345:THR:O	1:C:509:ARG:NH2	2.48	0.47
1:C:866:THR:H	1:C:869:MET:HG3	1.80	0.47
1:A:314:GLN:HE22	1:A:594:GLY:HA3	1.80	0.47
1:C:722:VAL:HG22	1:C:1065:VAL:HG22	1.96	0.47
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.97	0.47
1:A:866:THR:HG22	1:A:869:MET:SD	2.54	0.47
1:B:201:PHE:HB3	1:B:229:LEU:HB2	1.97	0.47
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:319:ARG:NH2	1:C:745:ASP:OD1	2.47	0.47
1:C:201:PHE:HE1	1:C:203:ILE:HD11	1.79	0.47
1:C:83:VAL:HG22	1:C:239:GLN:HG2	1.97	0.47
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.95	0.47
1:C:1014:ARG:O	1:C:1018:ILE:HG12	2.15	0.47
1:C:1043:CYS:HB2	1:C:1048:HIS:HD2	1.80	0.47
1:A:370:ASN:O	1:C:487:ASN:ND2	2.46	0.47
1:A:702:GLU:HA	1:B:788:ILE:HB	1.97	0.47
1:A:955:ASN:HD22	1:A:955:ASN:N	2.11	0.47
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.96	0.47
1:B:995:ARG:NH2	1:C:756:TYR:OH	2.48	0.47
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.97	0.47
1:B:387:LEU:HD22	1:B:390:LEU:HD11	1.97	0.47
1:A:120:VAL:HB	1:A:127:VAL:HB	1.96	0.47
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.97	0.47
1:A:864:LEU:HD23	1:C:697:MET:HE1	1.97	0.47
1:C:214:ARG:HE	1:C:215:GLY:H	1.63	0.47
1:B:158:ARG:O	1:B:158:ARG:NE	2.48	0.47
1:B:858:LEU:HD23	1:B:959:LEU:HD22	1.96	0.47
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.97	0.47
1:A:37:TYR:OH	1:A:54:LEU:O	2.32	0.47
1:A:452:LEU:HD23	1:A:492:LEU:HB3	1.96	0.47
1:A:596:SER:OG	1:A:613:GLN:NE2	2.48	0.47
1:C:91:TYR:OH	1:C:191:GLU:OE1	2.33	0.47
1:A:733:LYS:HE3	1:A:771:ALA:HB1	1.95	0.47
1:B:108:THR:O	1:B:237:ARG:NH2	2.48	0.47
1:C:878:LEU:O	1:C:882:ILE:HG13	2.15	0.47
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.29	0.47
1:A:984:LEU:HD23	1:A:988:GLU:HG3	1.96	0.47
1:C:106:PHE:HB3	1:C:235:ILE:HD13	1.96	0.47
1:A:120:VAL:HB	1:A:127:VAL:HB	1.97	0.47
1:A:909:ILE:HG13	1:A:911:VAL:HG23	1.96	0.47
1:B:84:LEU:HD22	1:B:267:VAL:HG11	1.96	0.47
1:B:733:LYS:HG3	1:B:861:LEU:HB2	1.96	0.47
1:A:676:THR:HA	1:A:690:GLN:HG2	1.96	0.47
1:A:914:ASN:ND2	1:A:1111:GLU:OE2	2.47	0.47
1:B:729:VAL:O	1:B:777:ASN:ND2	2.48	0.47
1:C:763:LEU:HD11	1:C:1008:VAL:HG21	1.97	0.47
1:A:717:ASN:OD1	1:A:718:PHE:N	2.48	0.47
1:A:18:PHE:HB2	1:A:21:ARG:HB2	1.96	0.47
1:A:596:SER:OG	1:A:613:GLN:NE2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:PHE:CE1	1:A:89:GLY:HA2	2.50	0.47
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.48	0.47
1:C:807:PRO:HA	1:C:816:SER:HA	1.97	0.47
1:A:104:TRP:H	1:A:119:ILE:HB	1.79	0.47
1:B:139:PRO:HG2	1:B:245:HIS:CE1	2.50	0.47
1:B:1106:GLN:NE2	1:B:1111:GLU:OE1	2.48	0.47
1:B:185:ASN:ND2	1:B:211:ASN:OD1	2.48	0.47
1:A:879:ALA:O	1:A:883:THR:OG1	2.29	0.47
1:B:170:TYR:HE1	1:B:227:VAL:HG11	1.80	0.47
1:B:733:LYS:HE3	1:B:771:ALA:HB1	1.95	0.47
1:A:865:LEU:HB3	1:A:870:ILE:HD11	1.96	0.47
1:B:457:ARG:NH1	1:B:459:SER:OG	2.47	0.47
1:B:717:ASN:OD1	1:B:718:PHE:N	2.47	0.47
1:C:66:HIS:HA	1:C:264:ALA:HA	1.96	0.47
1:C:193:VAL:HB	1:C:204:TYR:HB2	1.97	0.47
1:A:983:ARG:HG3	1:A:984:LEU:HD23	1.95	0.47
1:B:212:LEU:HD12	1:B:217:PRO:HD3	1.96	0.47
1:B:971:GLY:H	1:C:755:GLN:NE2	2.13	0.47
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	1.97	0.47
1:C:205:SER:N	1:C:224:GLU:O	2.37	0.47
1:A:676:THR:HA	1:A:690:GLN:HG2	1.97	0.47
1:C:866:THR:OG1	1:C:867:ASP:N	2.48	0.47
1:A:205:SER:N	1:A:224:GLU:O	2.45	0.47
1:B:1006:THR:HG22	1:C:1005:GLN:NE2	2.30	0.47
1:C:866:THR:OG1	1:C:867:ASP:N	2.48	0.47
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	1.96	0.46
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.96	0.46
1:B:1107:ARG:HH21	1:C:896:ILE:HD11	1.80	0.46
1:C:310:LYS:HG2	1:C:664:ILE:HD11	1.97	0.46
1:C:802:PHE:HB3	1:C:805:ILE:HG22	1.97	0.46
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.97	0.46
1:A:374:PHE:HB2	1:A:377:PHE:HE1	1.80	0.46
1:C:329:PHE:H	1:C:529:LYS:HE2	1.80	0.46
1:C:710:ASN:OD1	1:C:710:ASN:N	2.39	0.46
1:A:865:LEU:HD13	1:A:869:MET:HE2	1.97	0.46
1:A:965:GLN:HE22	1:B:758:SER:HG	1.61	0.46
1:A:1096:VAL:HG13	1:A:1103:PHE:HB2	1.95	0.46
1:C:128:ILE:HD13	1:C:170:TYR:CD1	2.50	0.46
1:C:84:LEU:HD22	1:C:267:VAL:HG11	1.96	0.46
1:C:126:VAL:H	1:C:172:SER:HB3	1.80	0.46
1:B:189:LEU:HD12	1:B:189:LEU:HA	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.34	0.46
1:A:37:TYR:OH	1:A:54:LEU:O	2.34	0.46
1:A:201:PHE:HB3	1:A:229:LEU:HB2	1.96	0.46
1:C:334:ASN:OD1	1:C:335:LEU:N	2.44	0.46
1:C:1102:TRP:HB2	1:C:1135:ASN:HD22	1.80	0.46
1:B:749:CYS:O	1:B:753:LEU:HB3	2.15	0.46
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.97	0.46
1:C:424:LYS:NZ	1:C:463:PRO:HG3	2.30	0.46
1:A:914:ASN:OD1	1:A:914:ASN:N	2.48	0.46
1:B:513:LEU:HB3	1:B:515:PHE:HE2	1.80	0.46
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.97	0.46
1:C:563:GLN:O	1:C:577:ARG:NH2	2.35	0.46
1:C:1116:THR:OG1	1:C:1118:ASP:OD2	2.26	0.46
1:A:727:LEU:HD11	1:A:1028:LYS:HD2	1.97	0.46
1:A:551:VAL:HG13	1:A:588:THR:HG23	1.97	0.46
1:A:128:ILE:HG21	1:A:229:LEU:HD21	1.96	0.46
1:B:1054:GLN:HB2	1:B:1061:VAL:HB	1.96	0.46
1:C:106:PHE:HB2	1:C:117:LEU:HB3	1.97	0.46
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.97	0.46
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.34	0.46
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.95	0.46
1:A:1054:GLN:HB2	1:A:1061:VAL:HG13	1.96	0.46
1:C:708:SER:HB3	1:C:711:SER:HB3	1.97	0.46
1:B:970:PHE:HA	1:C:756:TYR:HD1	1.80	0.46
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.97	0.46
1:C:737:ASP:OD1	1:C:740:MET:HB2	2.15	0.46
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.40	0.46
1:A:717:ASN:OD1	1:A:718:PHE:N	2.47	0.46
1:B:912:THR:HG22	1:B:914:ASN:H	1.80	0.46
1:C:866:THR:OG1	1:C:867:ASP:N	2.48	0.46
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.97	0.46
1:B:805:ILE:HB	1:B:1054:GLN:HE22	1.80	0.46
1:A:992:GLN:OE1	1:A:992:GLN:N	2.48	0.46
1:B:457:ARG:NH1	1:B:459:SER:OG	2.47	0.46
1:B:598:ILE:HD11	1:B:611:LEU:HD12	1.98	0.46
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.46
1:A:41:LYS:NZ	1:C:562:PHE:O	2.30	0.46
1:A:299:THR:HG22	1:A:597:VAL:HG11	1.97	0.46
1:A:310:LYS:HG2	1:A:664:ILE:HD11	1.97	0.46
1:B:914:ASN:N	1:B:914:ASN:OD1	2.48	0.46
1:C:719:THR:HG23	1:C:1070:ALA:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:LYS:HD2	1:A:207:HIS:N	2.30	0.46
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.98	0.46
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.46
1:C:826:VAL:HB	1:C:1057:PRO:HG2	1.97	0.46
1:A:720:ILE:HG13	1:A:923:ILE:HG23	1.97	0.46
1:A:781:VAL:HG23	1:A:1026:ALA:HA	1.96	0.46
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.33	0.46
1:C:328:ARG:HH11	1:C:533:LEU:HD13	1.80	0.46
1:C:761:THR:O	1:C:765:ARG:HG2	2.15	0.46
1:C:929:SER:O	1:C:933:LYS:HD3	2.15	0.46
1:C:1028:LYS:O	1:C:1032:CYS:HB2	2.15	0.46
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.46
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.96	0.46
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.46
1:C:289:VAL:HG11	1:C:300:LYS:HD2	1.96	0.46
1:B:777:ASN:O	1:B:781:VAL:HG12	2.15	0.46
1:C:48:LEU:HB3	1:C:276:LEU:HD11	1.96	0.46
1:B:898:PHE:HA	1:B:901:GLN:HB3	1.98	0.46
1:C:601:GLY:O	1:C:604:THR:OG1	2.33	0.46
1:C:718:PHE:HE1	1:C:919:ASN:HD22	1.64	0.46
1:B:18:PHE:HB2	1:B:21:ARG:HB2	1.97	0.46
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.43	0.46
1:C:601:GLY:O	1:C:604:THR:OG1	2.32	0.46
1:A:205:SER:HB2	1:A:226:LEU:HD22	1.98	0.46
1:B:276:LEU:HD22	1:B:301:CYS:HA	1.97	0.46
1:B:108:THR:OG1	1:B:234:ASN:O	2.33	0.46
1:B:182:LYS:HD3	1:B:187:LYS:HD2	1.97	0.46
1:B:336:CYS:HB2	1:B:358:ILE:HG21	1.98	0.46
1:C:105:ILE:HG13	1:C:241:LEU:HD21	1.96	0.46
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	1.98	0.46
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.97	0.46
1:C:287:ASP:OD2	1:C:288:ALA:N	2.48	0.46
1:C:1116:THR:HG22	1:C:1138:TYR:HB3	1.96	0.46
1:A:729:VAL:HG22	1:A:1059:GLY:HA2	1.97	0.46
1:A:813:SER:OG	1:A:868:GLU:OE2	2.26	0.46
1:B:37:TYR:OH	1:B:54:LEU:O	2.28	0.46
1:C:777:ASN:O	1:C:781:VAL:HG12	2.15	0.46
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.97	0.46
1:C:81:ASN:OD1	1:C:81:ASN:N	2.49	0.46
1:C:96:GLU:OE1	1:C:100:ILE:N	2.49	0.46
1:C:717:ASN:OD1	1:C:718:PHE:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:GLN:N	1:A:255:SER:HG	2.13	0.46
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.80	0.46
1:A:230:PRO:HB2	1:C:357:ARG:HH12	1.80	0.46
1:A:983:ARG:HG3	1:A:984:LEU:HD23	1.98	0.46
1:B:1084:ASP:OD2	1:B:1086:LYS:NZ	2.49	0.46
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.41	0.46
1:C:328:ARG:NH2	1:C:580:GLN:OE1	2.48	0.46
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.98	0.46
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.97	0.46
1:A:1041:ASP:HB3	1:B:1030:SER:HB2	1.98	0.46
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.96	0.46
1:A:909:ILE:HG13	1:A:911:VAL:HG23	1.97	0.46
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.81	0.46
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.96	0.46
1:A:1084:ASP:OD2	1:A:1086:LYS:NZ	2.48	0.46
1:C:108:THR:OG1	1:C:234:ASN:O	2.33	0.46
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.80	0.46
1:C:751:ASN:HA	1:C:754:LEU:HG	1.97	0.46
1:C:295:PRO:HA	1:C:298:GLU:HB2	1.97	0.46
1:A:642:VAL:HG23	1:A:651:ILE:HG22	1.97	0.46
1:A:717:ASN:OD1	1:A:718:PHE:N	2.48	0.46
1:C:957:GLN:HE21	1:C:957:GLN:HA	1.81	0.46
1:C:578:ASP:OD2	1:C:581:THR:OG1	2.29	0.46
1:B:18:PHE:HB2	1:B:21:ARG:HB2	1.96	0.46
1:A:43:PHE:H	1:C:566:GLY:HA2	1.80	0.46
1:B:454:ARG:HG2	1:B:454:ARG:HH11	1.81	0.46
1:B:361:CYS:H	1:B:522:ALA:HB1	1.80	0.46
1:A:247:SER:OG	1:A:259:THR:O	2.33	0.46
1:C:470:THR:HB	1:C:492:LEU:HD22	1.97	0.46
1:C:473:TYR:H	1:C:491:PRO:HG2	1.81	0.46
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.98	0.46
1:B:741:TYR:CE2	1:B:1004:LEU:HB2	2.50	0.46
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.51	0.46
1:B:190:ARG:HB3	1:B:192:PHE:HE2	1.81	0.46
1:B:68:ILE:HG12	1:B:78:ARG:HB2	1.97	0.46
1:C:53:ASP:OD1	1:C:54:LEU:N	2.41	0.46
1:A:731:MET:H	1:A:774:GLN:NE2	2.13	0.46
1:C:728:PRO:HD3	1:C:947:LYS:HG3	1.98	0.46
1:A:729:VAL:O	1:A:777:ASN:ND2	2.48	0.46
1:B:92:PHE:HB3	1:B:192:PHE:HB2	1.98	0.46
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:884:SER:OG	1:C:887:THR:OG1	2.32	0.46
1:C:1015:ALA:HA	1:C:1018:ILE:HG22	1.97	0.46
1:A:108:THR:OG1	1:A:234:ASN:O	2.33	0.46
1:A:734:THR:HG21	1:A:959:LEU:HD11	1.97	0.46
1:B:617:CYS:N	1:B:649:CYS:SG	2.82	0.46
1:B:18:PHE:HB2	1:B:21:ARG:HB2	1.98	0.46
1:B:992:GLN:N	1:B:992:GLN:OE1	2.48	0.46
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.98	0.46
1:C:393:THR:HA	1:C:522:ALA:HA	1.98	0.46
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.98	0.46
1:A:1052:PHE:HB2	1:A:1063:LEU:HB2	1.98	0.46
1:C:777:ASN:O	1:C:781:VAL:HG12	2.15	0.46
1:A:1013:ILE:HD12	1:B:1012:LEU:HG	1.96	0.46
1:A:1019:ARG:NH1	1:C:1017:GLU:OE2	2.49	0.46
1:B:126:VAL:HB	1:B:172:SER:HB3	1.97	0.46
1:A:205:SER:N	1:A:224:GLU:O	2.34	0.46
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.97	0.46
1:A:645:THR:HG23	1:A:647:ALA:H	1.81	0.46
1:B:455:LEU:N	1:B:493:GLN:OE1	2.44	0.46
1:C:438:SER:HB3	1:C:509:ARG:HG3	1.97	0.46
1:C:1002:GLN:O	1:C:1005:GLN:NE2	2.49	0.46
1:B:361:CYS:HB3	1:B:524:VAL:O	2.15	0.46
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.15	0.46
1:A:43:PHE:HB3	1:C:566:GLY:HA2	1.98	0.46
1:B:54:LEU:HD23	1:B:195:LYS:HG3	1.97	0.46
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.46
1:A:120:VAL:HB	1:A:127:VAL:HB	1.97	0.46
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.62	0.46
1:B:709:ASN:ND2	1:C:796:ASP:OD2	2.42	0.46
1:C:388:ASN:HB2	1:C:526:GLY:HA2	1.97	0.46
1:C:597:VAL:HG13	1:C:608:VAL:HG13	1.98	0.46
1:A:389:ASP:OD1	1:A:389:ASP:N	2.42	0.46
1:A:41:LYS:O	1:C:563:GLN:NE2	2.44	0.46
1:A:247:SER:OG	1:A:259:THR:O	2.33	0.46
1:A:761:THR:O	1:A:765:ARG:HG2	2.16	0.46
1:A:909:ILE:O	1:A:1108:ASN:ND2	2.49	0.46
1:C:736:VAL:HG21	1:C:1007:TYR:HE2	1.81	0.46
1:A:452:LEU:HD23	1:A:492:LEU:HB3	1.97	0.46
1:C:733:LYS:HE3	1:C:771:ALA:HB1	1.98	0.46
1:C:1031:GLU:HB3	1:C:1037:SER:HB2	1.97	0.46
1:B:906:PHE:HB3	1:B:911:VAL:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:126:VAL:H	1:C:172:SER:HB3	1.80	0.46
1:B:43:PHE:HE1	1:B:283:GLY:HA3	1.80	0.46
1:A:1028:LYS:O	1:A:1032:CYS:HB2	2.16	0.46
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.96	0.46
1:B:423:TYR:OH	1:B:514:SER:OG	2.32	0.46
1:B:214:ARG:HE	1:B:215:GLY:N	2.08	0.46
1:A:946:GLY:HA2	1:A:949:GLN:HB2	1.96	0.46
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.46
1:B:770:ILE:HD11	1:B:1012:LEU:HD22	1.97	0.46
1:B:53:ASP:HB3	1:B:55:PHE:HE2	1.80	0.46
1:B:190:ARG:HB3	1:B:192:PHE:HE2	1.81	0.46
1:B:610:VAL:HG13	1:B:651:ILE:HB	1.96	0.46
1:B:717:ASN:OD1	1:B:718:PHE:N	2.47	0.46
1:A:43:PHE:HE1	1:A:283:GLY:HA3	1.81	0.46
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.49	0.46
1:B:319:ARG:NH2	1:C:745:ASP:H	2.14	0.46
1:A:48:LEU:HB3	1:A:276:LEU:HD11	1.97	0.46
1:C:92:PHE:CE1	1:C:265:TYR:HB2	2.51	0.46
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.97	0.46
1:A:917:TYR:HB3	1:C:1129:VAL:HG22	1.96	0.46
1:A:949:GLN:HA	1:A:952:VAL:HG22	1.98	0.46
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.46
1:B:394:ASN:HB2	1:B:516:GLU:HB2	1.97	0.46
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.97	0.46
1:B:44:ARG:HE	1:B:279:TYR:HE2	1.63	0.46
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.50	0.46
1:B:193:VAL:HB	1:B:204:TYR:HD2	1.80	0.46
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.97	0.46
1:A:717:ASN:OD1	1:A:718:PHE:N	2.48	0.46
1:B:573:THR:HG22	1:B:587:ILE:HG13	1.98	0.46
1:B:710:ASN:OD1	1:B:710:ASN:N	2.44	0.46
1:B:774:GLN:HE21	1:B:774:GLN:HA	1.81	0.46
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.97	0.46
1:C:206:LYS:HB3	1:C:223:LEU:HD13	1.98	0.46
1:C:296:LEU:HB3	1:C:608:VAL:HG21	1.97	0.46
1:C:538:CYS:HB3	1:C:590:CYS:HB3	1.64	0.46
1:A:950:ASP:O	1:A:954:GLN:HG3	2.15	0.46
1:B:206:LYS:HE2	1:B:208:THR:HB	1.96	0.46
1:B:1123:SER:OG	1:C:914:ASN:ND2	2.48	0.46
1:C:909:ILE:O	1:C:1108:ASN:ND2	2.49	0.46
1:C:642:VAL:HG23	1:C:651:ILE:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.40	0.46
1:C:742:ILE:O	1:C:1000:ARG:NH1	2.47	0.46
1:C:96:GLU:OE1	1:C:99:ASN:ND2	2.37	0.46
1:C:345:THR:HG22	1:C:346:ARG:HG2	1.98	0.46
1:A:426:PRO:HG2	1:A:429:PHE:HB2	1.97	0.46
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.95	0.46
1:C:351:TYR:HE1	1:C:453:TYR:HA	1.80	0.46
1:A:31:SER:HB2	1:A:34:ARG:HB2	1.97	0.46
1:B:14:GLN:N	1:B:255:SER:HG	2.14	0.46
1:B:104:TRP:HB2	1:B:106:PHE:HE1	1.80	0.46
1:B:871:ALA:HA	1:B:874:THR:HG22	1.97	0.46
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.81	0.46
1:A:93:ALA:HB3	1:A:266:TYR:HB2	1.98	0.46
1:C:955:ASN:OD1	1:C:1014:ARG:NH1	2.49	0.46
1:B:96:GLU:OE1	1:B:100:ILE:N	2.47	0.46
1:B:1100:THR:OG1	1:B:1101:HIS:N	2.48	0.46
1:A:290:ASP:HB3	1:A:293:LEU:HD23	1.98	0.46
1:C:804:GLN:NE2	1:C:935:GLN:OE1	2.38	0.46
1:A:879:ALA:O	1:A:883:THR:OG1	2.32	0.46
1:B:189:LEU:HD12	1:B:189:LEU:HA	1.83	0.46
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.98	0.46
1:C:396:TYR:HB2	1:C:514:SER:HB3	1.98	0.46
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.46
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.97	0.46
1:A:452:LEU:HD23	1:A:492:LEU:HB3	1.97	0.46
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.98	0.46
1:B:1010:GLN:O	1:B:1014:ARG:HG2	2.15	0.46
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.98	0.46
1:A:1096:VAL:HG13	1:A:1103:PHE:HB2	1.97	0.46
1:B:128:ILE:HG21	1:B:229:LEU:HD21	1.98	0.46
1:A:807:PRO:HA	1:A:816:SER:HA	1.98	0.46
1:A:913:GLN:HE21	1:C:1089:PHE:HB3	1.81	0.46
1:A:1033:VAL:HG22	1:A:1051:SER:HB2	1.97	0.46
1:C:733:LYS:HE3	1:C:771:ALA:HB1	1.97	0.46
1:A:291:CYS:HB2	1:A:298:GLU:HA	1.98	0.46
1:B:971:GLY:H	1:C:755:GLN:HE22	1.62	0.46
1:A:983:ARG:HD3	1:A:984:LEU:HD23	1.98	0.46
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.34	0.46
1:C:977:LEU:HD11	1:C:993:ILE:HD12	1.97	0.46
1:B:57:PRO:HG3	1:B:273:ARG:HG3	1.97	0.46
1:C:344:ALA:HB3	1:C:347:PHE:HE2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:751:ASN:HA	1:C:754:LEU:HG	1.98	0.46
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	1.98	0.46
1:A:707:TYR:HD2	1:B:883:THR:HG23	1.81	0.46
1:A:813:SER:OG	1:A:815:ARG:NH1	2.49	0.46
1:C:984:LEU:HD12	1:C:989:ALA:HA	1.98	0.46
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.46
1:A:770:ILE:O	1:A:774:GLN:HB2	2.16	0.46
1:A:598:ILE:HB	1:A:609:ALA:HB3	1.98	0.46
1:A:201:PHE:HB3	1:A:229:LEU:HB2	1.98	0.46
1:B:669:GLY:N	1:C:864:LEU:O	2.47	0.46
1:A:37:TYR:OH	1:A:53:ASP:OD2	2.33	0.46
1:A:273:ARG:HH22	1:A:293:LEU:HB2	1.81	0.46
1:A:314:GLN:NE2	1:A:613:GLN:OE1	2.43	0.46
1:A:1028:LYS:NZ	1:A:1042:PHE:O	2.46	0.46
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.46
1:C:33:THR:OG1	1:C:219:GLY:O	2.29	0.46
1:C:185:ASN:ND2	1:C:212:LEU:O	2.48	0.46
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.79	0.46
1:C:950:ASP:O	1:C:954:GLN:HG3	2.16	0.46
1:B:429:PHE:CZ	1:B:512:VAL:HB	2.51	0.46
1:B:934:ILE:HD12	1:B:934:ILE:HA	1.83	0.46
1:B:1010:GLN:HA	1:B:1013:ILE:HD12	1.98	0.46
1:C:91:TYR:HD1	1:C:193:VAL:HG12	1.81	0.46
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	1.96	0.46
1:A:323:THR:OG1	1:A:537:LYS:NZ	2.33	0.46
1:A:1089:PHE:HB3	1:B:913:GLN:HE21	1.81	0.46
1:A:289:VAL:HG11	1:A:300:LYS:HD2	1.97	0.46
1:B:84:LEU:HD22	1:B:267:VAL:HG11	1.97	0.46
1:B:759:PHE:HA	1:B:762:GLN:HE21	1.81	0.46
1:A:741:TYR:HD1	1:A:742:ILE:HD13	1.80	0.46
1:B:37:TYR:OH	1:B:53:ASP:OD2	2.34	0.46
1:B:188:ASN:OD1	1:B:207:HIS:NE2	2.46	0.46
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.46
1:B:776:LYS:O	1:B:780:GLU:HG3	2.16	0.46
1:B:108:THR:OG1	1:B:234:ASN:O	2.33	0.46
1:A:954:GLN:HA	1:A:957:GLN:HG3	1.98	0.46
1:B:777:ASN:O	1:B:781:VAL:HG12	2.15	0.46
1:B:1091:ARG:NH1	1:B:1120:THR:O	2.46	0.46
1:B:663:ASP:N	1:B:671:CYS:SG	2.89	0.46
1:C:108:THR:OG1	1:C:234:ASN:O	2.34	0.46
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:THR:HB	1:A:114:THR:HG21	1.98	0.46
1:C:596:SER:HB2	1:C:611:LEU:HB3	1.97	0.46
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.28	0.46
1:C:666:ILE:HG12	1:C:671:CYS:HA	1.98	0.46
1:C:676:THR:HA	1:C:690:GLN:HG2	1.97	0.46
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.15	0.46
1:A:733:LYS:NZ	1:A:862:PRO:O	2.49	0.46
1:C:289:VAL:HG11	1:C:300:LYS:HD2	1.97	0.46
1:C:452:LEU:HD23	1:C:492:LEU:HB3	1.98	0.46
1:A:527:PRO:HG2	1:A:529:LYS:HZ1	1.81	0.46
1:C:950:ASP:O	1:C:954:GLN:HG3	2.16	0.46
1:B:356:LYS:H	1:B:356:LYS:HG2	1.64	0.46
1:C:708:SER:HB3	1:C:711:SER:HB3	1.98	0.46
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.98	0.46
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.15	0.46
1:B:224:GLU:N	1:B:224:GLU:OE1	2.49	0.46
1:A:452:LEU:HD23	1:A:492:LEU:HB3	1.97	0.46
1:C:554:GLU:HA	1:C:585:LEU:HA	1.98	0.46
1:A:564:GLN:NE2	1:B:41:LYS:HE2	2.31	0.46
1:A:599:THR:HG22	1:A:608:VAL:HA	1.98	0.46
1:A:914:ASN:OD1	1:A:914:ASN:N	2.46	0.46
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.98	0.46
1:B:172:SER:OG	1:B:173:GLN:N	2.49	0.46
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.46
1:C:733:LYS:HE3	1:C:771:ALA:HB1	1.98	0.46
1:B:878:LEU:O	1:B:882:ILE:HG12	2.16	0.46
1:C:722:VAL:HG12	1:C:930:ALA:HB1	1.98	0.46
1:A:707:TYR:HD2	1:B:883:THR:HG23	1.81	0.46
1:C:38:TYR:HE2	1:C:224:GLU:HG3	1.81	0.46
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.63	0.46
1:B:901:GLN:HE21	1:B:905:ARG:NE	2.13	0.46
1:B:742:ILE:HG13	1:B:753:LEU:HD22	1.98	0.46
1:C:994:ASP:O	1:C:998:THR:HG23	2.16	0.46
1:A:742:ILE:HG21	1:A:997:ILE:HG22	1.98	0.46
1:C:733:LYS:HB2	1:C:861:LEU:HB2	1.98	0.46
1:C:298:GLU:O	1:C:302:THR:HG23	2.16	0.46
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.41	0.46
1:B:1090:PRO:HA	1:B:1120:THR:HG22	1.97	0.46
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.97	0.46
1:B:708:SER:OG	1:B:710:ASN:OD1	2.32	0.46
1:C:91:TYR:HD1	1:C:193:VAL:HG12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:699:LEU:HA	1:B:699:LEU:HD23	1.72	0.46
1:A:53:ASP:HB3	1:A:55:PHE:CE2	2.50	0.46
1:A:293:LEU:HD23	1:A:294:ASP:HB2	1.98	0.46
1:C:807:PRO:HA	1:C:816:SER:HA	1.98	0.46
1:A:717:ASN:OD1	1:A:718:PHE:N	2.49	0.46
1:B:1040:VAL:HG21	1:C:1035:GLY:HA3	1.97	0.46
1:A:206:LYS:HD2	1:A:207:HIS:N	2.31	0.46
1:A:212:LEU:HD13	1:A:217:PRO:HD3	1.98	0.46
1:C:40:ASP:OD2	1:C:41:LYS:N	2.42	0.46
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.42	0.46
1:A:951:VAL:O	1:A:955:ASN:ND2	2.49	0.45
1:C:866:THR:HG22	1:C:869:MET:HG3	1.97	0.45
1:B:699:LEU:HD23	1:B:699:LEU:HA	1.72	0.45
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.45
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.98	0.45
1:A:216:LEU:HD21	1:A:266:TYR:HE2	1.81	0.45
1:A:708:SER:HB3	1:A:711:SER:HB3	1.98	0.45
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	1.97	0.45
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.15	0.45
1:A:897:PRO:HG2	1:A:900:MET:HG2	1.98	0.45
1:B:296:LEU:HB2	1:B:608:VAL:HG21	1.98	0.45
1:A:1110:TYR:CZ	1:A:1112:PRO:HG3	2.51	0.45
1:B:725:GLU:OE1	1:B:1028:LYS:NZ	2.37	0.45
1:C:425:LEU:HD22	1:C:512:VAL:HG11	1.98	0.45
1:C:782:PHE:HD1	1:C:782:PHE:HA	1.65	0.45
1:B:92:PHE:HE2	1:B:94:SER:HB2	1.80	0.45
1:B:319:ARG:HG2	1:B:321:GLN:HE22	1.80	0.45
1:B:1102:TRP:HB2	1:B:1135:ASN:HD22	1.81	0.45
1:A:318:PHE:HZ	1:A:615:VAL:HG21	1.80	0.45
1:B:108:THR:O	1:B:237:ARG:NH2	2.49	0.45
1:B:759:PHE:HA	1:B:762:GLN:HG3	1.98	0.45
1:C:807:PRO:HA	1:C:816:SER:HA	1.97	0.45
1:A:1013:ILE:HD13	1:B:1012:LEU:HG	1.97	0.45
1:C:1015:ALA:HA	1:C:1018:ILE:HG22	1.98	0.45
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.98	0.45
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.82	0.45
1:B:742:ILE:HG13	1:B:753:LEU:HD22	1.99	0.45
1:A:702:GLU:HA	1:B:788:ILE:HB	1.98	0.45
1:B:597:VAL:HG13	1:B:608:VAL:HG13	1.98	0.45
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.98	0.45
1:C:767:LEU:HA	1:C:770:ILE:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.34	0.45
1:A:247:SER:OG	1:A:259:THR:O	2.32	0.45
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.97	0.45
1:A:1049:LEU:HB2	1:A:1065:VAL:HG23	1.97	0.45
1:B:676:THR:HA	1:B:690:GLN:HG2	1.97	0.45
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.42	0.45
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.97	0.45
1:B:214:ARG:NH1	1:B:215:GLY:H	2.13	0.45
1:B:42:VAL:HG21	1:B:44:ARG:HH21	1.81	0.45
1:B:977:LEU:HD21	1:B:996:LEU:HD23	1.98	0.45
1:C:189:LEU:HD22	1:C:210:ILE:HD13	1.96	0.45
1:A:473:TYR:H	1:A:491:PRO:HD3	1.80	0.45
1:B:655:HIS:HA	1:B:694:ALA:HB3	1.99	0.45
1:B:956:ALA:O	1:B:960:ASN:HB2	2.15	0.45
1:C:200:TYR:HE1	1:C:230:PRO:HB3	1.81	0.45
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.98	0.45
1:A:287:ASP:OD2	1:A:288:ALA:N	2.49	0.45
1:C:858:LEU:HD13	1:C:959:LEU:HD22	1.97	0.45
1:A:906:PHE:HB3	1:A:911:VAL:HB	1.98	0.45
1:A:755:GLN:NE2	1:C:971:GLY:H	2.14	0.45
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.45
1:B:276:LEU:HD12	1:B:301:CYS:HA	1.98	0.45
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.39	0.45
1:A:55:PHE:O	1:A:271:GLN:N	2.36	0.45
1:B:726:ILE:HD12	1:B:1061:VAL:HG22	1.98	0.45
1:B:742:ILE:HG13	1:B:753:LEU:HD22	1.99	0.45
1:C:426:PRO:HG2	1:C:429:PHE:HB2	1.98	0.45
1:C:821:LEU:O	1:C:825:LYS:HB2	2.16	0.45
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.45
1:C:805:ILE:HD12	1:C:805:ILE:HA	1.83	0.45
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.42	0.45
1:A:1041:ASP:OD1	1:B:1030:SER:HB2	2.17	0.45
1:C:898:PHE:HA	1:C:901:GLN:HB2	1.98	0.45
1:B:24:LEU:HD12	1:B:80:ALA:HB2	1.99	0.45
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.43	0.45
1:B:26:PRO:HA	1:B:65:PHE:HE1	1.82	0.45
1:B:96:GLU:OE1	1:B:100:ILE:N	2.47	0.45
1:B:530:SER:HA	1:B:580:GLN:HE22	1.82	0.45
1:B:105:ILE:HB	1:B:239:GLN:HB2	1.98	0.45
1:B:124:THR:OG1	1:B:125:ASN:N	2.50	0.45
1:B:934:ILE:HD12	1:B:934:ILE:HA	1.76	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:867:ASP:HA	1:C:870:ILE:HG22	1.99	0.45
1:B:296:LEU:HB2	1:B:608:VAL:HG21	1.98	0.45
1:C:393:THR:HA	1:C:522:ALA:HA	1.98	0.45
1:A:393:THR:HA	1:A:522:ALA:HA	1.97	0.45
1:A:717:ASN:OD1	1:A:718:PHE:N	2.49	0.45
1:B:452:LEU:HD13	1:B:492:LEU:HD11	1.97	0.45
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.34	0.45
1:A:1115:ILE:HG22	1:A:1137:VAL:HG13	1.98	0.45
1:B:901:GLN:HE21	1:B:905:ARG:NE	2.15	0.45
1:C:118:LEU:HD22	1:C:129:LYS:HG2	1.98	0.45
1:A:676:THR:HA	1:A:690:GLN:HG2	1.98	0.45
1:A:1128:VAL:HG11	1:B:918:GLU:HG3	1.98	0.45
1:C:858:LEU:HD21	1:C:962:LEU:HD23	1.98	0.45
1:C:802:PHE:HE2	1:C:927:PHE:HE1	1.65	0.45
1:A:1037:SER:OG	1:A:1043:CYS:SG	2.66	0.45
1:B:214:ARG:NH1	1:B:215:GLY:H	2.15	0.45
1:B:1115:ILE:HG22	1:B:1137:VAL:HG13	1.97	0.45
1:C:329:PHE:HD2	1:C:528:LYS:HB3	1.82	0.45
1:C:396:TYR:HB2	1:C:514:SER:HB3	1.97	0.45
1:C:578:ASP:OD2	1:C:581:THR:OG1	2.31	0.45
1:B:226:LEU:HG	1:B:227:VAL:HG13	1.97	0.45
1:C:58:PHE:HB2	1:C:293:LEU:HD22	1.99	0.45
1:A:565:PHE:HB3	1:A:576:VAL:HG23	1.97	0.45
1:A:969:ASN:HD21	1:A:972:ALA:N	2.15	0.45
1:B:1103:PHE:CD2	1:B:1112:PRO:HB3	2.51	0.45
1:B:58:PHE:HB2	1:B:293:LEU:HD22	1.99	0.45
1:B:909:ILE:HD13	1:B:1049:LEU:HD21	1.98	0.45
1:B:96:GLU:OE1	1:B:100:ILE:N	2.47	0.45
1:B:777:ASN:O	1:B:781:VAL:HG12	2.16	0.45
1:C:710:ASN:OD1	1:C:710:ASN:N	2.41	0.45
1:A:212:LEU:HD13	1:A:217:PRO:HD3	1.99	0.45
1:C:769:GLY:HA2	1:C:772:VAL:HG12	1.98	0.45
1:A:919:ASN:HD22	1:A:922:LEU:HD23	1.82	0.45
1:B:50:SER:HB2	1:B:276:LEU:HD12	1.98	0.45
1:B:1038:LYS:HD3	1:B:1038:LYS:HA	1.62	0.45
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.38	0.45
1:B:777:ASN:O	1:B:781:VAL:HG12	2.17	0.45
1:B:273:ARG:HA	1:B:273:ARG:HD3	1.77	0.45
1:C:650:LEU:HD21	1:C:653:ALA:HB3	1.99	0.45
1:A:717:ASN:OD1	1:A:718:PHE:N	2.48	0.45
1:B:950:ASP:O	1:B:954:GLN:HG2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:131:CYS:HB2	1:C:133:PHE:CE1	2.50	0.45
1:C:975:SER:O	1:C:1000:ARG:NH2	2.49	0.45
1:A:913:GLN:HE22	1:C:1090:PRO:HG2	1.82	0.45
1:A:965:GLN:O	1:A:968:SER:OG	2.31	0.45
1:C:388:ASN:HB2	1:C:526:GLY:HA2	1.98	0.45
1:A:708:SER:HB3	1:A:711:SER:HB3	1.97	0.45
1:B:92:PHE:HE2	1:B:94:SER:HB2	1.81	0.45
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.81	0.45
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.36	0.45
1:B:312:ILE:HD13	1:B:598:ILE:HD13	1.98	0.45
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.97	0.45
1:B:591:SER:HB2	1:B:615:VAL:HG23	1.97	0.45
1:B:1114:ILE:HD12	1:B:1115:ILE:H	1.81	0.45
1:B:66:HIS:HA	1:B:264:ALA:HA	1.99	0.45
1:A:302:THR:HG21	1:A:315:THR:HA	1.98	0.45
1:A:600:PRO:HD3	1:A:692:ILE:HD11	1.98	0.45
1:A:971:GLY:O	1:A:995:ARG:NH1	2.48	0.45
1:B:361:CYS:HB3	1:B:524:VAL:O	2.16	0.45
1:B:201:PHE:HB3	1:B:229:LEU:HB2	1.99	0.45
1:C:720:ILE:HD12	1:C:923:ILE:HG23	1.98	0.45
1:A:717:ASN:OD1	1:A:718:PHE:N	2.48	0.45
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.45
1:B:770:ILE:HA	1:B:773:GLU:HG3	1.97	0.45
1:C:476:GLY:H	1:C:487:ASN:HB3	1.81	0.45
1:A:717:ASN:OD1	1:A:718:PHE:N	2.49	0.45
1:A:1012:LEU:HB3	1:C:1013:ILE:HG21	1.98	0.45
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.43	0.45
1:A:902:MET:HE1	1:A:905:ARG:HD2	1.99	0.45
1:A:904:TYR:HB2	1:C:1107:ARG:NH1	2.32	0.45
1:A:564:GLN:HE22	1:B:41:LYS:HE2	1.82	0.45
1:A:985:ASP:O	1:A:989:ALA:CB	2.64	0.45
1:B:878:LEU:O	1:B:882:ILE:HG12	2.17	0.45
1:B:866:THR:O	1:B:870:ILE:HG12	2.16	0.45
1:B:774:GLN:HA	1:B:777:ASN:HD21	1.82	0.45
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.45
1:B:1031:GLU:HG3	1:B:1037:SER:HB2	1.99	0.45
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.98	0.45
1:B:452:LEU:HB3	1:B:492:LEU:HD11	1.98	0.45
1:A:910:GLY:O	1:A:1106:GLN:NE2	2.49	0.45
1:A:1123:SER:OG	1:B:914:ASN:ND2	2.50	0.45
1:B:361:CYS:HB3	1:B:524:VAL:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:770:ILE:O	1:B:774:GLN:HB3	2.16	0.45
1:B:425:LEU:HD21	1:B:512:VAL:HG11	1.99	0.45
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	1.97	0.45
1:B:759:PHE:HA	1:B:762:GLN:OE1	2.16	0.45
1:B:767:LEU:HA	1:B:770:ILE:HG12	1.99	0.45
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.16	0.45
1:C:1106:GLN:OE1	1:C:1106:GLN:N	2.49	0.45
1:A:271:GLN:HG2	1:A:272:PRO:HD2	1.99	0.45
1:A:1105:THR:HG23	1:A:1111:GLU:H	1.81	0.45
1:B:458:LYS:NZ	1:B:473:TYR:HB3	2.32	0.45
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.43	0.45
1:C:1047:TYR:HB2	1:C:1067:TYR:HB3	1.98	0.45
1:A:273:ARG:HH21	1:A:292:ALA:HB3	1.81	0.45
1:A:1129:VAL:HG22	1:B:917:TYR:HB3	1.98	0.45
1:B:577:ARG:NE	1:B:583:GLU:O	2.50	0.45
1:B:990:GLU:HA	1:B:993:ILE:HD12	1.99	0.45
1:A:825:LYS:HD3	1:A:942:ALA:HA	1.99	0.45
1:B:759:PHE:HA	1:B:762:GLN:NE2	2.32	0.45
1:B:1118:ASP:OD1	1:B:1118:ASP:N	2.36	0.45
1:A:913:GLN:NE2	1:C:1090:PRO:HD2	2.32	0.45
1:B:985:ASP:OD2	1:B:987:PRO:HD2	2.17	0.45
1:C:807:PRO:HA	1:C:816:SER:HA	1.98	0.45
1:B:878:LEU:O	1:B:882:ILE:HG12	2.17	0.45
1:A:287:ASP:OD1	1:A:288:ALA:N	2.49	0.45
1:C:984:LEU:HD12	1:C:988:GLU:HG3	1.99	0.45
1:A:1012:LEU:HG	1:C:1013:ILE:HD13	1.99	0.45
1:A:1049:LEU:HD12	1:A:1065:VAL:HG12	1.98	0.45
1:B:559:PHE:HB3	1:B:577:ARG:HH22	1.81	0.45
1:C:660:TYR:O	1:C:698:SER:OG	2.34	0.45
1:A:564:GLN:N	1:A:564:GLN:OE1	2.47	0.45
1:A:570:ALA:HB1	1:B:963:VAL:HG21	1.97	0.45
1:B:717:ASN:OD1	1:B:718:PHE:N	2.49	0.45
1:C:770:ILE:O	1:C:774:GLN:HB3	2.17	0.45
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.34	0.45
1:A:1128:VAL:HG11	1:B:918:GLU:HG3	1.99	0.45
1:B:314:GLN:OE1	1:B:315:THR:N	2.49	0.45
1:B:616:ASN:OD1	1:B:644:GLN:NE2	2.49	0.45
1:B:780:GLU:OE1	1:B:1019:ARG:NH2	2.39	0.45
1:A:212:LEU:HD13	1:A:217:PRO:HD3	1.97	0.45
1:C:889:GLY:HA3	1:C:1034:LEU:HD11	1.99	0.45
1:B:759:PHE:HA	1:B:762:GLN:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:THR:HG22	1:A:189:LEU:HD22	1.98	0.45
1:B:133:PHE:HB3	1:B:160:TYR:HE1	1.81	0.45
1:C:473:TYR:H	1:C:491:PRO:HD3	1.80	0.45
1:C:168:PHE:HD1	1:C:169:GLU:N	2.15	0.45
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.98	0.45
1:B:37:TYR:OH	1:B:54:LEU:O	2.28	0.45
1:C:84:LEU:HD22	1:C:267:VAL:HG11	1.99	0.45
1:B:815:ARG:HD3	1:B:823:PHE:CD2	2.51	0.45
1:C:37:TYR:OH	1:C:195:LYS:NZ	2.49	0.45
1:A:31:SER:HB3	1:A:34:ARG:HB2	1.98	0.45
1:A:733:LYS:NZ	1:A:862:PRO:O	2.45	0.45
1:B:782:PHE:HB3	1:B:873:TYR:HD2	1.81	0.45
1:B:592:PHE:HZ	1:C:857:GLY:HA2	1.81	0.45
1:B:592:PHE:CZ	1:C:857:GLY:HA2	2.50	0.45
1:C:38:TYR:HE2	1:C:224:GLU:HG2	1.81	0.45
1:B:733:LYS:HE3	1:B:771:ALA:HB1	1.97	0.45
1:B:1019:ARG:NH1	1:B:1023:ASN:OD1	2.49	0.45
1:B:332:ILE:HA	1:B:524:VAL:HG22	1.99	0.45
1:C:117:LEU:HD13	1:C:235:ILE:HD11	1.97	0.45
1:C:333:THR:OG1	1:C:360:ASN:OD1	2.34	0.45
1:A:1052:PHE:HB2	1:A:1063:LEU:HB2	1.99	0.45
1:B:159:VAL:HG12	1:B:160:TYR:HD2	1.82	0.45
1:A:755:GLN:HE22	1:C:971:GLY:HA2	1.82	0.45
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.42	0.45
1:B:310:LYS:HG3	1:B:600:PRO:HA	1.99	0.45
1:C:276:LEU:HG	1:C:306:PHE:HE1	1.82	0.45
1:C:552:LEU:HB3	1:C:585:LEU:HD23	1.97	0.45
1:C:717:ASN:OD1	1:C:718:PHE:N	2.49	0.45
1:C:906:PHE:HB3	1:C:911:VAL:HB	1.99	0.45
1:A:707:TYR:HB3	1:B:792:PRO:HG3	1.99	0.45
1:C:770:ILE:HD12	1:C:1015:ALA:HB2	1.99	0.45
1:C:888:PHE:HE2	1:C:1034:LEU:HD22	1.82	0.45
1:A:776:LYS:HZ1	1:A:1019:ARG:HH22	1.63	0.45
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	1.99	0.45
1:B:864:LEU:HG	1:B:865:LEU:HD22	1.98	0.45
1:B:1115:ILE:HG22	1:B:1137:VAL:HG13	1.99	0.45
1:A:323:THR:OG1	1:A:537:LYS:NZ	2.49	0.45
1:B:642:VAL:HG13	1:B:651:ILE:HG22	1.98	0.45
1:C:878:LEU:O	1:C:882:ILE:HG12	2.17	0.45
1:A:564:GLN:HA	1:A:577:ARG:HE	1.82	0.45
1:A:393:THR:HA	1:A:522:ALA:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1091:ARG:NH2	1:B:1120:THR:O	2.50	0.45
1:C:90:VAL:HG21	1:C:238:PHE:CE2	2.52	0.45
1:A:418:ILE:O	1:A:422:ASN:HB2	2.17	0.45
1:A:1041:ASP:HB3	1:B:1030:SER:HB2	1.97	0.45
1:B:1027:THR:HG22	1:B:1042:PHE:HZ	1.82	0.45
1:C:106:PHE:HD2	1:C:117:LEU:HD23	1.81	0.45
1:C:962:LEU:HD22	1:C:1007:TYR:CD2	2.52	0.45
1:A:48:LEU:O	1:A:304:LYS:NZ	2.35	0.45
1:C:172:SER:OG	1:C:173:GLN:N	2.49	0.45
1:C:598:ILE:HB	1:C:609:ALA:HB3	1.98	0.45
1:C:898:PHE:HA	1:C:901:GLN:HB2	1.99	0.45
1:A:984:LEU:HD12	1:A:989:ALA:HA	1.99	0.45
1:B:204:TYR:HA	1:B:225:PRO:HA	1.98	0.45
1:B:540:ASN:OD1	1:B:540:ASN:N	2.43	0.45
1:C:1029:MET:HE1	1:C:1033:VAL:HG21	1.99	0.45
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.35	0.45
1:B:189:LEU:HD22	1:B:210:ILE:HD13	1.99	0.45
1:B:214:ARG:HD3	1:B:215:GLY:H	1.82	0.45
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.50	0.45
1:C:316:SER:OG	1:C:317:ASN:N	2.50	0.45
1:C:826:VAL:HG22	1:C:945:LEU:HD13	1.97	0.45
1:A:807:PRO:HA	1:A:816:SER:HA	1.99	0.45
1:B:64:TRP:HE1	1:B:214:ARG:HH21	1.65	0.45
1:B:189:LEU:HD12	1:B:189:LEU:HA	1.77	0.45
1:B:878:LEU:O	1:B:882:ILE:HD12	2.17	0.45
1:A:328:ARG:NH1	1:A:531:THR:O	2.50	0.45
1:A:866:THR:O	1:A:870:ILE:HG12	2.16	0.45
1:A:990:GLU:HA	1:A:993:ILE:HG22	1.98	0.45
1:B:66:HIS:HA	1:B:264:ALA:HA	1.97	0.45
1:A:719:THR:HG23	1:A:1070:ALA:HB2	1.97	0.45
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.45
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.99	0.45
1:C:402:ILE:HG21	1:C:418:ILE:HD13	1.98	0.45
1:B:318:PHE:HE1	1:B:615:VAL:HG21	1.82	0.45
1:C:96:GLU:OE1	1:C:100:ILE:N	2.50	0.45
1:C:805:ILE:HD12	1:C:1054:GLN:HE21	1.82	0.45
1:B:931:ILE:HA	1:B:934:ILE:HG22	1.98	0.45
1:A:355:ARG:HH22	1:A:464:PHE:HB3	1.82	0.45
1:B:617:CYS:N	1:B:649:CYS:SG	2.83	0.45
1:B:701:VAL:HG13	1:C:787:GLN:HG2	1.99	0.45
1:A:951:VAL:HA	1:A:954:GLN:HE21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:974:SER:OG	1:B:979:ASP:OD1	2.34	0.45
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.98	0.45
1:B:642:VAL:HG13	1:B:651:ILE:HG22	1.99	0.45
1:B:1106:GLN:NE2	1:B:1111:GLU:OE2	2.45	0.45
1:C:39:PRO:HG3	1:C:51:THR:HG21	1.99	0.45
1:C:418:ILE:O	1:C:422:ASN:HB2	2.16	0.45
1:C:777:ASN:O	1:C:781:VAL:HG12	2.16	0.45
1:C:983:ARG:NE	1:C:984:LEU:HD23	2.32	0.45
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.16	0.45
1:B:497:PHE:CE2	1:B:507:PRO:HB3	2.52	0.45
1:C:426:PRO:HG2	1:C:429:PHE:HB2	1.98	0.45
1:A:31:SER:HB3	1:A:34:ARG:HB2	1.98	0.45
1:A:339:GLY:HA2	1:A:342:PHE:HD1	1.81	0.45
1:A:699:LEU:HB2	1:B:788:ILE:HD11	1.97	0.45
1:A:741:TYR:HD2	1:A:1004:LEU:HD22	1.81	0.45
1:B:330:PRO:HB3	1:B:580:GLN:HA	1.99	0.45
1:B:969:ASN:OD1	1:B:972:ALA:N	2.50	0.45
1:C:56:LEU:HD22	1:C:91:TYR:HD1	1.81	0.45
1:C:610:VAL:HG13	1:C:651:ILE:HG13	1.99	0.45
1:A:273:ARG:HD2	1:A:292:ALA:HB3	1.98	0.45
1:A:532:ASN:OD1	1:A:533:LEU:N	2.50	0.45
1:C:912:THR:HG22	1:C:1106:GLN:HG2	1.98	0.45
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.17	0.45
1:B:457:ARG:NH1	1:B:459:SER:OG	2.49	0.45
1:A:345:THR:HG22	1:A:346:ARG:HG2	1.99	0.45
1:B:722:VAL:HG12	1:B:930:ALA:HB1	1.99	0.45
1:B:777:ASN:O	1:B:781:VAL:HG12	2.17	0.45
1:B:883:THR:O	1:B:901:GLN:NE2	2.50	0.45
1:C:328:ARG:HD3	1:C:533:LEU:HB2	1.99	0.45
1:A:205:SER:N	1:A:224:GLU:O	2.37	0.45
1:A:476:GLY:H	1:A:487:ASN:HB3	1.82	0.45
1:A:866:THR:O	1:A:870:ILE:HG12	2.16	0.45
1:A:984:LEU:HD12	1:A:989:ALA:HA	1.99	0.45
1:B:909:ILE:HA	1:B:1038:LYS:NZ	2.32	0.45
1:A:774:GLN:HA	1:A:777:ASN:ND2	2.31	0.45
1:B:214:ARG:HD3	1:B:215:GLY:H	1.82	0.45
1:A:903:ALA:HB1	1:A:913:GLN:HG2	1.98	0.45
1:B:332:ILE:HA	1:B:524:VAL:HG22	1.99	0.45
1:A:887:THR:HG21	1:A:894:LEU:HB2	1.98	0.45
1:B:442:ASP:OD2	1:B:509:ARG:NE	2.50	0.45
1:B:381:GLY:HA3	1:C:983:ARG:NH1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:667:GLY:HA2	1:B:864:LEU:HA	1.98	0.45
1:B:189:LEU:HG	1:B:210:ILE:HD13	1.99	0.45
1:C:31:SER:HB3	1:C:34:ARG:HB2	1.99	0.45
1:A:168:PHE:HD2	1:A:231:ILE:HG13	1.81	0.45
1:A:807:PRO:HA	1:A:816:SER:HA	1.99	0.45
1:B:746:SER:OG	1:B:748:GLU:OE1	2.35	0.45
1:B:773:GLU:OE1	1:B:1019:ARG:NH2	2.50	0.45
1:C:784:GLN:HG2	1:C:785:VAL:HG13	1.98	0.45
1:A:547:THR:OG1	1:B:978:ASN:ND2	2.48	0.45
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.99	0.45
1:A:329:PHE:HD2	1:A:528:LYS:HB3	1.82	0.45
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.82	0.45
1:B:188:ASN:OD1	1:B:207:HIS:NE2	2.38	0.45
1:A:957:GLN:HG2	1:B:765:ARG:HH12	1.82	0.45
1:C:1047:TYR:HD2	1:C:1067:TYR:HD2	1.65	0.45
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.39	0.45
1:A:109:THR:HA	1:A:237:ARG:HH12	1.82	0.45
1:A:347:PHE:H	1:A:509:ARG:HH12	1.64	0.45
1:A:717:ASN:HB3	1:A:1071:GLN:HG3	1.98	0.45
1:B:733:LYS:HE2	1:B:861:LEU:HB2	1.99	0.45
1:C:1102:TRP:HB2	1:C:1135:ASN:HD22	1.82	0.45
1:A:869:MET:HG2	1:C:699:LEU:HD21	1.98	0.45
1:B:822:LEU:HD23	1:B:1056:ALA:HB2	1.99	0.45
1:C:393:THR:HA	1:C:522:ALA:HA	1.97	0.45
1:B:204:TYR:CZ	1:B:225:PRO:HB3	2.52	0.45
1:A:193:VAL:HG13	1:A:270:LEU:HD21	1.99	0.45
1:B:805:ILE:HB	1:B:1054:GLN:HE22	1.82	0.45
1:B:295:PRO:HG2	1:B:608:VAL:HG11	1.98	0.45
1:B:456:PHE:HD2	1:B:475:ALA:HB1	1.82	0.45
1:A:741:TYR:CD2	1:A:1004:LEU:HD22	2.52	0.45
1:C:578:ASP:OD2	1:C:581:THR:OG1	2.33	0.45
1:A:792:PRO:HG3	1:C:707:TYR:HB3	1.98	0.45
1:A:825:LYS:HD3	1:A:942:ALA:HA	1.98	0.45
1:A:993:ILE:O	1:A:997:ILE:HG12	2.16	0.45
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.45
1:B:722:VAL:HG12	1:B:930:ALA:HB1	1.98	0.45
1:A:717:ASN:OD1	1:A:718:PHE:N	2.48	0.45
1:C:777:ASN:O	1:C:781:VAL:HG12	2.16	0.45
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.99	0.45
1:A:314:GLN:HE22	1:A:595:VAL:N	2.15	0.45
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:567:ARG:HG3	1:B:572:THR:O	2.17	0.45
1:A:312:ILE:HD11	1:A:598:ILE:HG23	1.98	0.45
1:B:224:GLU:N	1:B:224:GLU:OE1	2.50	0.45
1:B:717:ASN:OD1	1:B:718:PHE:N	2.49	0.45
1:C:58:PHE:CD2	1:C:290:ASP:HB2	2.50	0.45
1:B:298:GLU:O	1:B:302:THR:HG23	2.17	0.45
1:B:995:ARG:NH2	1:C:994:ASP:OD2	2.50	0.45
1:B:1046:GLY:HA2	1:C:890:ALA:HA	1.99	0.45
1:B:1105:THR:HG23	1:B:1111:GLU:H	1.81	0.45
1:C:295:PRO:HA	1:C:298:GLU:OE1	2.17	0.45
1:A:770:ILE:O	1:A:774:GLN:HB2	2.17	0.45
1:A:909:ILE:HG13	1:A:911:VAL:HG23	1.98	0.45
1:B:376:THR:HB	1:B:435:ALA:HB3	1.98	0.45
1:B:528:LYS:HD2	1:B:529:LYS:H	1.82	0.45
1:A:702:GLU:HA	1:B:788:ILE:HB	1.98	0.45
1:A:106:PHE:HB2	1:A:117:LEU:HB3	1.99	0.45
1:C:318:PHE:N	1:C:593:GLY:O	2.47	0.45
1:A:92:PHE:CE2	1:A:94:SER:HB2	2.52	0.45
1:A:722:VAL:HG22	1:A:930:ALA:HB1	1.99	0.45
1:C:120:VAL:HB	1:C:127:VAL:HB	1.98	0.45
1:C:197:ILE:HB	1:C:202:LYS:NZ	2.32	0.45
1:C:807:PRO:HA	1:C:816:SER:HA	1.99	0.45
1:C:1038:LYS:HE2	1:C:1038:LYS:HB2	1.82	0.45
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.44	0.45
1:A:983:ARG:NH2	1:C:412:PRO:O	2.50	0.45
1:B:591:SER:HB2	1:B:615:VAL:HG23	1.98	0.45
1:B:159:VAL:HG12	1:B:160:TYR:CD1	2.51	0.45
1:B:878:LEU:O	1:B:882:ILE:HG12	2.18	0.45
1:C:567:ARG:HH21	1:C:571:ASP:HB3	1.82	0.45
1:C:731:MET:HB3	1:C:774:GLN:HE22	1.82	0.45
1:A:1096:VAL:HG13	1:A:1103:PHE:HB2	1.98	0.45
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.45
1:B:55:PHE:HB2	1:B:273:ARG:HB2	1.98	0.45
1:B:666:ILE:HD12	1:B:670:ILE:HG22	1.98	0.45
1:A:581:THR:OG1	1:A:583:GLU:OE2	2.28	0.45
1:B:96:GLU:OE1	1:B:100:ILE:N	2.49	0.45
1:C:906:PHE:HB3	1:C:911:VAL:HB	1.98	0.45
1:B:770:ILE:HD12	1:B:774:GLN:HE21	1.82	0.45
1:B:1039:ARG:NE	1:C:1031:GLU:OE1	2.32	0.45
1:C:35:GLY:HA3	1:C:56:LEU:HB3	1.99	0.45
1:C:1002:GLN:HA	1:C:1005:GLN:HE21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:769:GLY:HA2	1:C:772:VAL:HG12	1.99	0.45
1:A:946:GLY:HA2	1:A:949:GLN:HB3	1.99	0.44
1:B:1040:VAL:HG11	1:C:1034:LEU:HD22	1.99	0.44
1:B:1118:ASP:OD1	1:B:1118:ASP:N	2.35	0.44
1:C:555:SER:HB3	1:C:584:ILE:HG22	1.99	0.44
1:A:33:THR:OG1	1:A:219:GLY:O	2.29	0.44
1:C:418:ILE:O	1:C:422:ASN:HB2	2.17	0.44
1:A:759:PHE:O	1:A:763:LEU:HG	2.17	0.44
1:B:742:ILE:O	1:B:1000:ARG:NH1	2.50	0.44
1:B:762:GLN:HA	1:B:765:ARG:HG2	1.98	0.44
1:B:57:PRO:HG3	1:B:273:ARG:HG3	1.99	0.44
1:C:118:LEU:HD22	1:C:159:VAL:HG11	1.99	0.44
1:B:394:ASN:HB3	1:B:516:GLU:HG2	1.99	0.44
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.99	0.44
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.81	0.44
1:C:718:PHE:HE1	1:C:923:ILE:HD11	1.81	0.44
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.35	0.44
1:B:914:ASN:N	1:B:914:ASN:OD1	2.50	0.44
1:C:393:THR:HA	1:C:522:ALA:HA	1.99	0.44
1:C:756:TYR:HB3	1:C:759:PHE:HE2	1.82	0.44
1:A:985:ASP:N	1:A:988:GLU:OE1	2.39	0.44
1:B:710:ASN:OD1	1:B:710:ASN:N	2.45	0.44
1:C:33:THR:HB	1:C:220:PHE:HD1	1.81	0.44
1:C:717:ASN:OD1	1:C:718:PHE:N	2.49	0.44
1:A:336:CYS:HB2	1:A:338:PHE:CE1	2.52	0.44
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.98	0.44
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.17	0.44
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.40	0.44
1:C:33:THR:HB	1:C:220:PHE:HD1	1.82	0.44
1:C:106:PHE:HB3	1:C:235:ILE:HD13	1.99	0.44
1:C:295:PRO:HG2	1:C:608:VAL:HG11	1.99	0.44
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.44
1:C:870:ILE:O	1:C:874:THR:HG23	2.16	0.44
1:B:85:PRO:O	1:B:269:TYR:OH	2.26	0.44
1:B:296:LEU:HG	1:B:300:LYS:HE3	1.99	0.44
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.99	0.44
1:C:769:GLY:HA2	1:C:772:VAL:HG12	1.98	0.44
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.98	0.44
1:B:992:GLN:OE1	1:B:995:ARG:NH2	2.32	0.44
1:A:934:ILE:HA	1:A:934:ILE:HD12	1.83	0.44
1:C:37:TYR:OH	1:C:195:LYS:NZ	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:767:LEU:HA	1:C:770:ILE:HG22	1.98	0.44
1:A:598:ILE:HG21	1:A:672:ALA:HB3	1.99	0.44
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.44
1:B:702:GLU:HG3	1:C:790:LYS:HE3	1.99	0.44
1:C:206:LYS:HB2	1:C:223:LEU:HA	1.99	0.44
1:A:956:ALA:O	1:A:960:ASN:HB2	2.17	0.44
1:B:82:PRO:HG2	1:B:84:LEU:HD11	1.99	0.44
1:B:330:PRO:HD3	1:B:579:PRO:HB2	1.99	0.44
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.99	0.44
1:A:591:SER:HB2	1:A:615:VAL:HG12	1.98	0.44
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	2.00	0.44
1:A:816:SER:N	1:A:819:GLU:OE2	2.40	0.44
1:A:273:ARG:HD3	1:A:292:ALA:HB3	1.97	0.44
1:B:168:PHE:HD2	1:B:169:GLU:N	2.16	0.44
1:B:877:LEU:O	1:B:881:THR:HG23	2.17	0.44
1:B:1002:GLN:O	1:B:1005:GLN:NE2	2.50	0.44
1:C:452:LEU:HD23	1:C:492:LEU:HB3	1.99	0.44
1:A:328:ARG:HD3	1:A:543:PHE:HE1	1.82	0.44
1:A:773:GLU:OE2	1:A:1019:ARG:NE	2.50	0.44
1:B:96:GLU:OE1	1:B:100:ILE:N	2.49	0.44
1:B:203:ILE:HG23	1:B:226:LEU:HB3	1.99	0.44
1:B:676:THR:HA	1:B:690:GLN:HG2	1.99	0.44
1:C:708:SER:HB3	1:C:711:SER:HB3	1.99	0.44
1:B:783:ALA:HB2	1:B:873:TYR:CE2	2.52	0.44
1:A:394:ASN:HB2	1:A:516:GLU:HB3	1.99	0.44
1:A:774:GLN:HA	1:A:777:ASN:OD1	2.17	0.44
1:B:40:ASP:OD1	1:B:42:VAL:HG12	2.17	0.44
1:A:567:ARG:HD3	1:A:571:ASP:HA	1.99	0.44
1:A:769:GLY:HA2	1:A:772:VAL:HG12	1.99	0.44
1:A:949:GLN:HA	1:A:952:VAL:HG22	1.99	0.44
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.44
1:B:596:SER:HB3	1:B:611:LEU:HB3	1.99	0.44
1:B:620:VAL:HG11	1:B:642:VAL:HG11	2.00	0.44
1:B:774:GLN:HE22	1:B:1018:ILE:HG21	1.81	0.44
1:A:1086:LYS:HA	1:A:1125:ASN:HA	1.99	0.44
1:B:35:GLY:HA3	1:B:56:LEU:HB3	1.98	0.44
1:C:819:GLU:HA	1:C:822:LEU:HG	1.99	0.44
1:A:1041:ASP:HB3	1:B:1030:SER:HB2	1.98	0.44
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.52	0.44
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.45	0.44
1:B:743:CYS:HB3	1:B:977:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.98	0.44
1:C:741:TYR:CE2	1:C:1004:LEU:HB2	2.52	0.44
1:A:717:ASN:OD1	1:A:718:PHE:N	2.49	0.44
1:C:201:PHE:CE1	1:C:203:ILE:HD11	2.53	0.44
1:C:1005:GLN:O	1:C:1009:THR:HG23	2.17	0.44
1:A:65:PHE:HE1	1:A:84:LEU:HD11	1.83	0.44
1:B:33:THR:OG1	1:B:219:GLY:O	2.32	0.44
1:B:1103:PHE:CD2	1:B:1112:PRO:HB3	2.52	0.44
1:C:323:THR:OG1	1:C:324:GLU:OE2	2.28	0.44
1:B:430:THR:HG22	1:C:983:ARG:HD3	1.98	0.44
1:A:418:ILE:O	1:A:422:ASN:HB2	2.18	0.44
1:B:158:ARG:O	1:B:158:ARG:NH1	2.51	0.44
1:C:328:ARG:HD2	1:C:533:LEU:HB2	1.99	0.44
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	1.99	0.44
1:B:1103:PHE:CD1	1:B:1112:PRO:HB3	2.52	0.44
1:C:212:LEU:HD22	1:C:217:PRO:HD3	1.99	0.44
1:B:87:ASN:OD1	1:B:88:ASP:N	2.50	0.44
1:B:992:GLN:HB3	1:B:995:ARG:HH21	1.82	0.44
1:B:204:TYR:HD1	1:B:225:PRO:HA	1.82	0.44
1:B:864:LEU:HG	1:B:865:LEU:HD22	2.00	0.44
1:C:200:TYR:O	1:C:202:LYS:NZ	2.50	0.44
1:C:310:LYS:HZ3	1:C:664:ILE:HG22	1.82	0.44
1:C:763:LEU:HD12	1:C:1008:VAL:HG11	1.98	0.44
1:C:888:PHE:HE1	1:C:1034:LEU:HD22	1.82	0.44
1:A:295:PRO:HG2	1:A:608:VAL:HG11	2.00	0.44
1:A:931:ILE:HA	1:A:934:ILE:HG22	1.99	0.44
1:C:599:THR:HG22	1:C:608:VAL:HA	1.99	0.44
1:B:14:GLN:N	1:B:255:SER:OG	2.44	0.44
1:A:1121:PHE:HE1	1:B:914:ASN:HD21	1.66	0.44
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.44
1:C:1139:ASP:HB3	1:C:1142:GLN:HG2	1.99	0.44
1:A:226:LEU:HD12	1:A:226:LEU:HA	1.89	0.44
1:B:898:PHE:HA	1:B:901:GLN:HB3	1.98	0.44
1:A:418:ILE:O	1:A:422:ASN:HB2	2.18	0.44
1:A:865:LEU:HA	1:A:869:MET:HE1	1.98	0.44
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.17	0.44
1:C:552:LEU:HB3	1:C:585:LEU:HD23	2.00	0.44
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.98	0.44
1:A:375:SER:HB2	1:A:436:TRP:HA	1.98	0.44
1:A:1049:LEU:HB2	1:A:1065:VAL:HG12	1.99	0.44
1:C:785:VAL:HG22	1:C:787:GLN:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:970:PHE:N	1:B:755:GLN:HE22	2.15	0.44
1:C:334:ASN:OD1	1:C:335:LEU:N	2.43	0.44
1:C:206:LYS:HD2	1:C:207:HIS:N	2.33	0.44
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.98	0.44
1:C:299:THR:HG22	1:C:315:THR:HG21	1.98	0.44
1:C:396:TYR:HB2	1:C:514:SER:HB3	1.99	0.44
1:C:1081:ILE:HG13	1:C:1115:ILE:HD13	1.99	0.44
1:A:676:THR:HA	1:A:690:GLN:HG2	1.98	0.44
1:A:738:CYS:O	1:A:742:ILE:HG12	2.17	0.44
1:A:742:ILE:O	1:A:1000:ARG:NH1	2.50	0.44
1:B:764:ASN:O	1:B:768:THR:HG23	2.18	0.44
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	1.99	0.44
1:B:1027:THR:HG22	1:B:1042:PHE:HZ	1.83	0.44
1:C:866:THR:OG1	1:C:867:ASP:N	2.50	0.44
1:C:994:ASP:O	1:C:998:THR:HG23	2.18	0.44
1:A:866:THR:H	1:A:869:MET:HE2	1.83	0.44
1:C:906:PHE:HA	1:C:909:ILE:HG12	1.99	0.44
1:B:291:CYS:HB3	1:B:301:CYS:HB3	1.71	0.44
1:C:316:SER:OG	1:C:317:ASN:N	2.50	0.44
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.43	0.44
1:A:197:ILE:HB	1:A:202:LYS:HZ1	1.81	0.44
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.30	0.44
1:A:784:GLN:HG2	1:A:1034:LEU:HD21	2.00	0.44
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.18	0.44
1:A:676:THR:HA	1:A:690:GLN:HG2	1.98	0.44
1:B:457:ARG:NH2	1:B:459:SER:OG	2.50	0.44
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	1.98	0.44
1:A:914:ASN:OD1	1:C:1123:SER:OG	2.35	0.44
1:C:1002:GLN:HA	1:C:1005:GLN:HE21	1.81	0.44
1:C:726:ILE:HD12	1:C:1061:VAL:HG22	1.99	0.44
1:B:577:ARG:NH1	1:B:582:LEU:HA	2.32	0.44
1:B:361:CYS:HB3	1:B:524:VAL:O	2.17	0.44
1:C:564:GLN:OE1	1:C:564:GLN:N	2.44	0.44
1:A:909:ILE:HG13	1:A:911:VAL:HG23	1.98	0.44
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	1.99	0.44
1:C:758:SER:O	1:C:761:THR:OG1	2.36	0.44
1:A:299:THR:HG22	1:A:597:VAL:HG11	1.99	0.44
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.53	0.44
1:A:1116:THR:HG22	1:A:1138:TYR:HD2	1.83	0.44
1:C:931:ILE:HA	1:C:934:ILE:HG22	1.98	0.44
1:A:426:PRO:HG2	1:A:429:PHE:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:772:VAL:HG22	1:A:776:LYS:HE3	2.00	0.44
1:A:977:LEU:HD11	1:A:1000:ARG:HH12	1.83	0.44
1:C:774:GLN:HA	1:C:777:ASN:HD21	1.82	0.44
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.36	0.44
1:A:375:SER:HB2	1:A:436:TRP:HA	1.99	0.44
1:B:809:PRO:HA	1:B:814:LYS:HE2	1.98	0.44
1:C:597:VAL:HG13	1:C:608:VAL:HG13	1.98	0.44
1:A:676:THR:HA	1:A:690:GLN:HG2	1.99	0.44
1:A:726:ILE:O	1:A:947:LYS:NZ	2.46	0.44
1:A:752:LEU:HA	1:A:755:GLN:NE2	2.32	0.44
1:C:762:GLN:OE1	1:C:765:ARG:NH2	2.50	0.44
1:B:889:GLY:HA3	1:B:1034:LEU:HD21	1.98	0.44
1:A:239:GLN:HE21	1:A:240:THR:H	1.64	0.44
1:B:877:LEU:HD12	1:B:877:LEU:HA	1.85	0.44
1:B:229:LEU:HG	1:B:231:ILE:HG13	2.00	0.44
1:A:592:PHE:CZ	1:B:857:GLY:HA2	2.53	0.44
1:A:756:TYR:HB3	1:A:759:PHE:HE2	1.83	0.44
1:C:396:TYR:HB2	1:C:514:SER:HB2	1.99	0.44
1:A:227:VAL:HG22	1:A:229:LEU:HD12	2.00	0.44
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.16	0.44
1:A:699:LEU:HB3	1:B:788:ILE:HD11	2.00	0.44
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.44
1:C:933:LYS:HE2	1:C:933:LYS:HB2	1.85	0.44
1:A:205:SER:HB3	1:A:226:LEU:HD22	1.99	0.44
1:A:106:PHE:HD1	1:A:235:ILE:HD13	1.83	0.44
1:A:866:THR:OG1	1:A:867:ASP:N	2.51	0.44
1:A:985:ASP:OD1	1:A:987:PRO:HD2	2.18	0.44
1:C:316:SER:OG	1:C:317:ASN:N	2.51	0.44
1:C:326:ILE:HD12	1:C:539:VAL:HG21	1.99	0.44
1:A:57:PRO:HG3	1:A:273:ARG:HE	1.83	0.44
1:A:904:TYR:HB2	1:C:1107:ARG:HH12	1.82	0.44
1:B:985:ASP:N	1:B:988:GLU:OE2	2.47	0.44
1:A:825:LYS:NZ	1:A:938:LEU:O	2.40	0.44
1:A:881:THR:HG23	1:A:882:ILE:HD13	1.98	0.44
1:B:906:PHE:HB3	1:B:911:VAL:HB	1.99	0.44
1:A:914:ASN:HD21	1:C:1121:PHE:HE1	1.64	0.44
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	2.00	0.44
1:C:33:THR:HB	1:C:220:PHE:HD1	1.83	0.44
1:C:807:PRO:HA	1:C:816:SER:HA	1.99	0.44
1:C:1003:SER:HA	1:C:1006:THR:HG23	1.99	0.44
1:A:909:ILE:O	1:A:1108:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:741:TYR:HE1	1:C:962:LEU:HD11	1.83	0.44
1:C:807:PRO:HA	1:C:816:SER:HA	1.98	0.44
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.18	0.44
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.44
1:B:1086:LYS:HG3	1:B:1122:VAL:HG13	2.00	0.44
1:A:825:LYS:HD3	1:A:942:ALA:HA	2.00	0.44
1:C:775:ASP:O	1:C:778:THR:OG1	2.33	0.44
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.34	0.44
1:B:713:ALA:HB2	1:C:895:GLN:HE21	1.83	0.44
1:C:119:ILE:HD13	1:C:128:ILE:HG22	2.00	0.44
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.83	0.44
1:A:965:GLN:O	1:A:968:SER:OG	2.35	0.44
1:B:296:LEU:HB2	1:B:608:VAL:HG21	2.00	0.44
1:B:699:LEU:HB2	1:C:788:ILE:HD11	1.99	0.44
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.83	0.44
1:B:777:ASN:O	1:B:781:VAL:HG12	2.18	0.44
1:C:769:GLY:HA2	1:C:772:VAL:HG12	2.00	0.44
1:C:403:ARG:HG2	1:C:497:PHE:HE1	1.82	0.44
1:A:102:ARG:NH1	1:A:121:ASN:O	2.51	0.44
1:C:733:LYS:HE3	1:C:771:ALA:HB1	1.98	0.44
1:A:42:VAL:HG11	1:A:44:ARG:HH21	1.81	0.44
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	2.00	0.44
1:A:1054:GLN:N	1:A:1061:VAL:O	2.50	0.44
1:C:83:VAL:HG22	1:C:239:GLN:HG2	2.00	0.44
1:A:957:GLN:HE21	1:B:765:ARG:HE	1.65	0.44
1:A:1030:SER:HB2	1:C:1041:ASP:HB3	1.99	0.44
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.44
1:B:452:LEU:HB3	1:B:492:LEU:HD11	2.00	0.44
1:C:717:ASN:OD1	1:C:718:PHE:N	2.47	0.44
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.18	0.44
1:B:850:ILE:HG23	1:B:860:VAL:HB	1.99	0.44
1:B:969:ASN:OD1	1:C:755:GLN:HG2	2.18	0.44
1:C:37:TYR:OH	1:C:54:LEU:O	2.34	0.44
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.44
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.98	0.44
1:C:869:MET:HB2	1:C:869:MET:HE2	1.89	0.44
1:A:913:GLN:HE22	1:C:1090:PRO:HD2	1.83	0.44
1:B:774:GLN:HA	1:B:777:ASN:HD21	1.83	0.44
1:B:1010:GLN:OE1	1:B:1014:ARG:NH1	2.50	0.44
1:A:866:THR:O	1:A:870:ILE:HG12	2.17	0.44
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:819:GLU:HA	1:C:822:LEU:HG	1.98	0.44
1:B:401:VAL:HG22	1:B:509:ARG:HG2	1.99	0.44
1:B:784:GLN:HA	1:B:784:GLN:NE2	2.32	0.44
1:C:141:LEU:HD13	1:C:154:GLU:HG3	2.00	0.44
1:B:360:ASN:OD1	1:B:523:THR:OG1	2.25	0.44
1:B:966:LEU:HD23	1:B:966:LEU:HA	1.78	0.44
1:C:659:SER:HB3	1:C:698:SER:HB2	1.99	0.44
1:B:563:GLN:NE2	1:C:282:ASN:O	2.46	0.44
1:C:426:PRO:HG2	1:C:429:PHE:HB2	1.99	0.44
1:C:927:PHE:O	1:C:931:ILE:HG13	2.17	0.44
1:A:990:GLU:N	1:A:990:GLU:OE2	2.50	0.44
1:A:596:SER:HB2	1:A:611:LEU:HD22	1.99	0.44
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.44
1:C:203:ILE:HD13	1:C:227:VAL:HG13	2.00	0.44
1:B:295:PRO:HG2	1:B:608:VAL:HG11	1.98	0.44
1:A:984:LEU:HD11	1:A:988:GLU:HB2	2.00	0.44
1:B:273:ARG:NH2	1:B:290:ASP:OD2	2.48	0.44
1:C:426:PRO:HG2	1:C:429:PHE:HB2	2.00	0.44
1:A:774:GLN:HE22	1:A:1018:ILE:HG21	1.82	0.44
1:A:993:ILE:HD13	1:A:993:ILE:HG21	1.83	0.44
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	2.00	0.44
1:B:766:ALA:O	1:B:770:ILE:HG12	2.17	0.44
1:C:204:TYR:HA	1:C:225:PRO:HA	2.00	0.44
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.44
1:A:733:LYS:NZ	1:A:863:PRO:HA	2.32	0.44
1:A:1086:LYS:HA	1:A:1125:ASN:HA	1.99	0.44
1:B:106:PHE:HB2	1:B:117:LEU:HB2	2.00	0.44
1:C:201:PHE:HE1	1:C:203:ILE:HD11	1.83	0.44
1:C:1051:SER:HB3	1:C:1064:HIS:ND1	2.33	0.44
1:A:742:ILE:HG21	1:A:997:ILE:HG22	2.00	0.44
1:B:1100:THR:OG1	1:B:1101:HIS:N	2.50	0.44
1:C:676:THR:HA	1:C:690:GLN:HG2	1.99	0.44
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.52	0.44
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.83	0.44
1:A:51:THR:HG22	1:A:277:LEU:HD11	1.99	0.44
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.82	0.44
1:A:418:ILE:O	1:A:422:ASN:HB2	2.18	0.44
1:C:1002:GLN:O	1:C:1005:GLN:NE2	2.51	0.44
1:A:858:LEU:HD13	1:A:959:LEU:HB2	2.00	0.44
1:B:1054:GLN:HB2	1:B:1061:VAL:HG13	1.99	0.44
1:C:456:PHE:HE2	1:C:489:TYR:HD2	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	2.00	0.44
1:C:788:ILE:HD12	1:C:876:ALA:HB2	1.98	0.44
1:A:554:GLU:HA	1:A:585:LEU:HA	2.00	0.44
1:B:484:LYS:HD2	1:B:490:PHE:HB2	1.99	0.44
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.83	0.44
1:C:108:THR:OG1	1:C:234:ASN:O	2.36	0.44
1:A:225:PRO:HB2	1:C:562:PHE:HZ	1.83	0.44
1:A:1051:SER:HB3	1:A:1064:HIS:HD1	1.82	0.44
1:A:1086:LYS:HG3	1:A:1122:VAL:HG13	2.00	0.44
1:B:662:CYS:HB2	1:B:697:MET:SD	2.58	0.44
1:B:825:LYS:HZ2	1:B:942:ALA:HA	1.82	0.44
1:B:456:PHE:CE2	1:B:475:ALA:HA	2.52	0.44
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.99	0.44
1:B:777:ASN:O	1:B:781:VAL:HG12	2.18	0.44
1:C:741:TYR:CE2	1:C:1004:LEU:HD13	2.52	0.44
1:A:17:ASN:HB2	1:A:21:ARG:HD3	2.00	0.44
1:A:35:GLY:HA3	1:A:56:LEU:HB3	2.00	0.44
1:A:759:PHE:O	1:A:763:LEU:HG	2.17	0.44
1:A:989:ALA:O	1:A:993:ILE:HG13	2.18	0.44
1:A:645:THR:OG1	1:A:648:GLY:O	2.33	0.44
1:B:1002:GLN:NE2	1:C:1005:GLN:OE1	2.49	0.44
1:C:552:LEU:HD12	1:C:585:LEU:HD13	1.99	0.44
1:C:1153:ASP:HA	1:C:1156:PHE:CD2	2.52	0.44
1:A:296:LEU:HB2	1:A:608:VAL:HG21	1.99	0.44
1:A:866:THR:HG22	1:A:869:MET:SD	2.58	0.44
1:B:1105:THR:HG23	1:B:1111:GLU:H	1.83	0.44
1:C:770:ILE:O	1:C:774:GLN:HB2	2.18	0.44
1:A:273:ARG:HE	1:A:292:ALA:HB3	1.83	0.44
1:B:777:ASN:HA	1:B:780:GLU:OE1	2.18	0.44
1:B:782:PHE:HB3	1:B:873:TYR:HD2	1.83	0.44
1:C:963:VAL:HA	1:C:966:LEU:HD23	2.00	0.44
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	2.00	0.44
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.25	0.44
1:A:819:GLU:HA	1:A:822:LEU:HB2	1.99	0.44
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.18	0.44
1:B:1017:GLU:OE1	1:C:1019:ARG:NH1	2.51	0.44
1:C:18:PHE:HB2	1:C:21:ARG:HB2	1.98	0.44
1:C:1028:LYS:O	1:C:1032:CYS:HB2	2.17	0.44
1:C:552:LEU:HD22	1:C:585:LEU:HD13	1.99	0.44
1:C:1049:LEU:HB2	1:C:1065:VAL:HG23	2.00	0.44
1:B:92:PHE:HE2	1:B:94:SER:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:THR:HG23	1:C:256:SER:HB2	2.00	0.44
1:A:866:THR:O	1:A:870:ILE:HG23	2.18	0.44
1:C:117:LEU:HD13	1:C:235:ILE:HD11	2.00	0.44
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.99	0.44
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.42	0.44
1:B:901:GLN:HE21	1:B:905:ARG:NE	2.16	0.44
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.99	0.44
1:C:206:LYS:HB2	1:C:223:LEU:HA	2.00	0.44
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.51	0.44
1:A:58:PHE:HD1	1:A:290:ASP:HB2	1.83	0.44
1:A:761:THR:O	1:A:765:ARG:HG2	2.18	0.44
1:C:277:LEU:HD22	1:C:285:ILE:HD13	1.98	0.44
1:B:1039:ARG:HB3	1:C:1031:GLU:OE1	2.17	0.44
1:B:296:LEU:HB2	1:B:608:VAL:HG21	1.98	0.44
1:B:774:GLN:HA	1:B:777:ASN:HD21	1.82	0.44
1:C:458:LYS:HE3	1:C:474:GLN:NE2	2.32	0.44
1:A:741:TYR:CE2	1:A:1004:LEU:HD13	2.53	0.44
1:A:964:LYS:HE2	1:A:964:LYS:HB2	1.82	0.44
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.83	0.44
1:B:287:ASP:OD1	1:B:288:ALA:N	2.50	0.44
1:B:566:GLY:N	1:B:575:ALA:O	2.43	0.44
1:C:901:GLN:HE22	1:C:905:ARG:NH2	2.16	0.44
1:A:532:ASN:OD1	1:A:533:LEU:N	2.51	0.44
1:B:68:ILE:HA	1:B:262:ALA:HA	1.99	0.44
1:B:361:CYS:HB3	1:B:524:VAL:O	2.18	0.44
1:C:320:VAL:HG23	1:C:590:CYS:HB3	1.99	0.44
1:A:722:VAL:HG12	1:A:930:ALA:HB1	1.98	0.44
1:B:616:ASN:OD1	1:B:644:GLN:NE2	2.50	0.44
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.98	0.44
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.81	0.44
1:A:41:LYS:HG2	1:C:562:PHE:CE2	2.53	0.44
1:B:717:ASN:OD1	1:B:718:PHE:N	2.50	0.44
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.83	0.44
1:C:769:GLY:HA2	1:C:772:VAL:HG22	2.00	0.44
1:B:108:THR:OG1	1:B:234:ASN:O	2.35	0.44
1:B:357:ARG:NH2	1:B:394:ASN:OD1	2.48	0.44
1:C:189:LEU:HD12	1:C:189:LEU:HA	1.83	0.44
1:B:92:PHE:HE1	1:B:94:SER:HB2	1.83	0.44
1:C:596:SER:HB2	1:C:611:LEU:HD23	1.99	0.44
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.53	0.44
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:914:ASN:N	1:B:914:ASN:OD1	2.50	0.44
1:C:962:LEU:HD12	1:C:962:LEU:HA	1.81	0.44
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.83	0.44
1:A:702:GLU:HA	1:B:788:ILE:HB	2.00	0.44
1:C:727:LEU:HD11	1:C:1028:LYS:HD2	2.00	0.44
1:A:865:LEU:HB3	1:A:870:ILE:HD11	2.00	0.44
1:C:998:THR:HA	1:C:1001:LEU:HG	2.00	0.44
1:A:811:LYS:HG3	1:A:812:PRO:HD2	1.99	0.44
1:A:102:ARG:O	1:A:121:ASN:N	2.43	0.44
1:B:195:LYS:HB3	1:B:195:LYS:HE3	1.78	0.44
1:A:39:PRO:HG3	1:A:51:THR:HG21	2.00	0.44
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.53	0.44
1:C:931:ILE:HA	1:C:934:ILE:HG22	2.00	0.44
1:A:1031:GLU:OE1	1:C:1039:ARG:HB3	2.17	0.44
1:B:823:PHE:CD2	1:B:1057:PRO:HD3	2.51	0.44
1:A:717:ASN:OD1	1:A:718:PHE:N	2.50	0.44
1:C:998:THR:HA	1:C:1001:LEU:HG	2.00	0.44
1:B:766:ALA:O	1:B:770:ILE:HG12	2.18	0.44
1:C:782:PHE:HD1	1:C:782:PHE:HA	1.66	0.44
1:C:791:THR:HG21	1:C:806:LEU:HD11	1.99	0.44
1:A:201:PHE:CE2	1:A:203:ILE:HD11	2.53	0.44
1:A:770:ILE:HD12	1:A:770:ILE:HA	1.85	0.44
1:B:53:ASP:OD1	1:B:195:LYS:NZ	2.51	0.44
1:B:567:ARG:NH1	1:B:571:ASP:OD1	2.51	0.44
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.31	0.44
1:C:418:ILE:O	1:C:422:ASN:HB2	2.18	0.44
1:C:784:GLN:HA	1:C:784:GLN:NE2	2.32	0.44
1:C:870:ILE:HD12	1:C:870:ILE:HA	1.66	0.44
1:C:884:SER:HG	1:C:887:THR:HG1	1.66	0.44
1:A:727:LEU:HD21	1:A:1028:LYS:HD2	2.00	0.44
1:A:1089:PHE:HZ	1:A:1129:VAL:HG11	1.83	0.44
1:B:737:ASP:OD2	1:B:737:ASP:N	2.43	0.44
1:B:182:LYS:HD3	1:B:187:LYS:HD2	1.99	0.44
1:B:965:GLN:HE22	1:C:758:SER:H	1.65	0.44
1:B:1115:ILE:HG22	1:B:1137:VAL:HG13	2.00	0.44
1:C:126:VAL:H	1:C:172:SER:HB3	1.81	0.44
1:C:807:PRO:HA	1:C:816:SER:HA	1.99	0.44
1:A:901:GLN:OE1	1:A:905:ARG:NE	2.51	0.43
1:A:1116:THR:HG22	1:A:1138:TYR:HD2	1.83	0.43
1:C:597:VAL:HG13	1:C:608:VAL:HG13	1.99	0.43
1:A:1086:LYS:HE2	1:A:1122:VAL:HG11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:576:VAL:HG23	1:A:587:ILE:HD11	2.00	0.43
1:C:759:PHE:O	1:C:763:LEU:HG	2.17	0.43
1:A:55:PHE:HB3	1:A:275:PHE:HE2	1.83	0.43
1:B:1102:TRP:HE1	1:B:1135:ASN:HD22	1.66	0.43
1:A:755:GLN:O	1:C:968:SER:OG	2.25	0.43
1:B:762:GLN:HA	1:B:765:ARG:NH1	2.33	0.43
1:C:37:TYR:OH	1:C:54:LEU:O	2.31	0.43
1:C:38:TYR:HE2	1:C:224:GLU:HG3	1.83	0.43
1:B:825:LYS:O	1:B:949:GLN:NE2	2.51	0.43
1:B:66:HIS:HA	1:B:264:ALA:HA	2.00	0.43
1:B:521:PRO:HD3	1:B:564:GLN:OE1	2.17	0.43
1:C:727:LEU:HD11	1:C:1028:LYS:HD2	1.99	0.43
1:B:454:ARG:HD2	1:B:457:ARG:HG2	1.99	0.43
1:B:662:CYS:HB2	1:B:697:MET:SD	2.58	0.43
1:C:96:GLU:OE1	1:C:100:ILE:N	2.51	0.43
1:C:105:ILE:HB	1:C:239:GLN:HB2	2.00	0.43
1:C:188:ASN:OD1	1:C:207:HIS:NE2	2.48	0.43
1:C:807:PRO:HA	1:C:816:SER:HA	2.00	0.43
1:B:105:ILE:HB	1:B:239:GLN:HB2	2.00	0.43
1:C:949:GLN:HA	1:C:952:VAL:HG22	2.00	0.43
1:C:1005:GLN:O	1:C:1009:THR:HG23	2.18	0.43
1:A:32:PHE:CD2	1:A:33:THR:HG23	2.52	0.43
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.52	0.43
1:C:819:GLU:HA	1:C:822:LEU:HG	1.99	0.43
1:C:960:ASN:HB3	1:C:964:LYS:NZ	2.33	0.43
1:A:756:TYR:HE1	1:A:997:ILE:HD12	1.83	0.43
1:B:783:ALA:HB2	1:B:873:TYR:CZ	2.53	0.43
1:B:906:PHE:HB3	1:B:911:VAL:HB	2.00	0.43
1:C:866:THR:O	1:C:870:ILE:HG12	2.18	0.43
1:A:784:GLN:HG3	1:A:1034:LEU:HD21	2.00	0.43
1:A:1041:ASP:HB3	1:B:1030:SER:HB2	1.99	0.43
1:B:1031:GLU:HG3	1:B:1042:PHE:HE2	1.83	0.43
1:C:994:ASP:HA	1:C:997:ILE:HG12	2.00	0.43
1:B:152:TRP:CG	1:B:179:LEU:HB2	2.53	0.43
1:B:206:LYS:HZ2	1:B:206:LYS:HG3	1.74	0.43
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.45	0.43
1:A:295:PRO:HA	1:A:298:GLU:HG2	1.99	0.43
1:A:905:ARG:HD3	1:A:1049:LEU:O	2.18	0.43
1:B:1054:GLN:N	1:B:1061:VAL:O	2.51	0.43
1:A:949:GLN:HA	1:A:952:VAL:HG22	2.00	0.43
1:B:729:VAL:O	1:B:777:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:130:VAL:HB	1:C:168:PHE:HB3	2.00	0.43
1:C:564:GLN:HG3	1:C:565:PHE:CD2	2.53	0.43
1:A:955:ASN:N	1:A:955:ASN:ND2	2.65	0.43
1:B:44:ARG:HD2	1:B:279:TYR:HE2	1.83	0.43
1:A:328:ARG:HD3	1:A:543:PHE:HE1	1.83	0.43
1:B:360:ASN:OD1	1:B:523:THR:OG1	2.28	0.43
1:B:699:LEU:HB2	1:C:788:ILE:HD11	2.00	0.43
1:B:443:SER:HB3	1:B:499:PRO:HG3	2.00	0.43
1:B:866:THR:O	1:B:870:ILE:HG12	2.17	0.43
1:A:326:ILE:HD11	1:A:534:VAL:HB	1.99	0.43
1:A:731:MET:HB3	1:A:774:GLN:HE22	1.83	0.43
1:B:312:ILE:HD13	1:B:598:ILE:HD13	2.00	0.43
1:B:773:GLU:OE2	1:B:1019:ARG:NE	2.51	0.43
1:B:877:LEU:O	1:B:881:THR:HG23	2.18	0.43
1:B:931:ILE:HA	1:B:934:ILE:HG22	2.00	0.43
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.43
1:A:1081:ILE:HG12	1:A:1095:PHE:CE2	2.53	0.43
1:B:39:PRO:HG3	1:B:51:THR:HG21	2.00	0.43
1:B:1091:ARG:NH2	1:B:1120:THR:O	2.51	0.43
1:C:273:ARG:HA	1:C:273:ARG:HD3	1.76	0.43
1:A:592:PHE:CZ	1:B:857:GLY:HA2	2.53	0.43
1:B:40:ASP:HB3	1:B:42:VAL:HG12	2.00	0.43
1:B:985:ASP:O	1:B:989:ALA:CB	2.66	0.43
1:C:347:PHE:CG	1:C:399:SER:HB3	2.52	0.43
1:B:717:ASN:OD1	1:B:718:PHE:N	2.47	0.43
1:B:1046:GLY:HA2	1:C:890:ALA:HA	2.00	0.43
1:B:1103:PHE:CD2	1:B:1112:PRO:HB3	2.53	0.43
1:A:326:ILE:HD11	1:A:534:VAL:HB	2.00	0.43
1:B:796:ASP:OD1	1:B:796:ASP:N	2.51	0.43
1:A:712:ILE:HD13	1:B:897:PRO:HD2	2.01	0.43
1:B:182:LYS:HD3	1:B:187:LYS:HD2	1.99	0.43
1:B:188:ASN:OD1	1:B:207:HIS:NE2	2.38	0.43
1:A:130:VAL:HB	1:A:168:PHE:HB3	1.99	0.43
1:A:418:ILE:O	1:A:422:ASN:HB2	2.19	0.43
1:B:717:ASN:OD1	1:B:718:PHE:N	2.47	0.43
1:A:55:PHE:O	1:A:271:GLN:N	2.42	0.43
1:B:774:GLN:HA	1:B:777:ASN:HD21	1.82	0.43
1:B:330:PRO:HB3	1:B:580:GLN:HA	1.99	0.43
1:A:1128:VAL:HG11	1:B:918:GLU:HG3	2.00	0.43
1:B:962:LEU:HD22	1:B:1007:TYR:CG	2.53	0.43
1:C:66:HIS:HA	1:C:264:ALA:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:564:GLN:HA	1:B:577:ARG:HD2	2.00	0.43
1:B:993:ILE:O	1:B:997:ILE:HG12	2.18	0.43
1:C:193:VAL:HG23	1:C:223:LEU:HD22	1.99	0.43
1:B:26:PRO:HA	1:B:65:PHE:HE1	1.83	0.43
1:B:767:LEU:HD13	1:B:770:ILE:HD11	2.00	0.43
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.18	0.43
1:C:1155:TYR:O	1:C:1159:HIS:ND1	2.33	0.43
1:A:17:ASN:HB2	1:A:21:ARG:HD3	1.98	0.43
1:A:532:ASN:OD1	1:A:533:LEU:N	2.51	0.43
1:A:722:VAL:HG23	1:A:934:ILE:HD11	1.99	0.43
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.43
1:A:807:PRO:HA	1:A:816:SER:HA	2.00	0.43
1:B:570:ALA:HB1	1:C:963:VAL:HG21	2.01	0.43
1:C:994:ASP:O	1:C:998:THR:HG23	2.18	0.43
1:C:296:LEU:HB2	1:C:608:VAL:HG21	1.99	0.43
1:A:1129:VAL:HG22	1:B:917:TYR:HB3	1.99	0.43
1:B:130:VAL:HB	1:B:168:PHE:HB3	1.99	0.43
1:C:206:LYS:HD2	1:C:207:HIS:N	2.32	0.43
1:C:1010:GLN:OE1	1:C:1014:ARG:NH2	2.46	0.43
1:B:425:LEU:HD21	1:B:512:VAL:HG11	2.00	0.43
1:B:598:ILE:HG23	1:B:609:ALA:HB3	2.00	0.43
1:C:452:LEU:HD23	1:C:492:LEU:HB3	2.01	0.43
1:B:856:ASN:HD22	1:B:858:LEU:HD13	1.83	0.43
1:C:737:ASP:O	1:C:741:TYR:HB2	2.18	0.43
1:C:1024:LEU:HD11	1:C:1028:LYS:HE2	1.99	0.43
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.30	0.43
1:C:906:PHE:HA	1:C:909:ILE:HG12	2.00	0.43
1:A:1051:SER:HA	1:A:1064:HIS:HA	2.00	0.43
1:B:708:SER:HB3	1:B:711:SER:HB3	2.01	0.43
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	2.00	0.43
1:B:318:PHE:N	1:B:593:GLY:O	2.47	0.43
1:B:992:GLN:N	1:B:992:GLN:OE1	2.51	0.43
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.18	0.43
1:B:396:TYR:HB2	1:B:514:SER:HB2	2.01	0.43
1:A:905:ARG:NH1	1:A:1049:LEU:O	2.51	0.43
1:C:96:GLU:OE1	1:C:100:ILE:N	2.51	0.43
1:C:994:ASP:HA	1:C:997:ILE:HG12	2.00	0.43
1:B:699:LEU:HD21	1:C:869:MET:HE3	2.00	0.43
1:B:882:ILE:HD12	1:B:882:ILE:HA	1.72	0.43
1:A:969:ASN:HD21	1:A:972:ALA:C	2.22	0.43
1:B:769:GLY:HA2	1:B:772:VAL:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1028:LYS:HZ3	1:B:1028:LYS:HG2	1.59	0.43
1:A:326:ILE:HD12	1:A:539:VAL:HG21	1.99	0.43
1:B:361:CYS:HB3	1:B:524:VAL:O	2.18	0.43
1:B:1010:GLN:O	1:B:1013:ILE:HG13	2.19	0.43
1:B:69:HIS:O	1:B:77:LYS:N	2.51	0.43
1:B:311:GLY:HA2	1:B:664:ILE:HD12	2.01	0.43
1:B:725:GLU:OE2	1:B:1028:LYS:NZ	2.30	0.43
1:C:596:SER:OG	1:C:613:GLN:NE2	2.51	0.43
1:B:767:LEU:HA	1:B:770:ILE:HG12	2.00	0.43
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	1.99	0.43
1:C:35:GLY:HA3	1:C:56:LEU:HB3	2.01	0.43
1:A:212:LEU:HD13	1:A:217:PRO:HD3	2.01	0.43
1:B:931:ILE:HA	1:B:934:ILE:HG22	2.00	0.43
1:A:707:TYR:HE2	1:B:797:PHE:HE1	1.67	0.43
1:A:864:LEU:HA	1:C:667:GLY:HA2	2.00	0.43
1:A:881:THR:HG23	1:A:882:ILE:HD13	1.99	0.43
1:C:329:PHE:HZ	1:C:544:ASN:H	1.67	0.43
1:C:964:LYS:HE2	1:C:964:LYS:HB2	1.80	0.43
1:A:205:SER:HB3	1:A:226:LEU:HD13	2.00	0.43
1:B:97:LYS:HG2	1:B:186:PHE:HA	2.01	0.43
1:B:129:LYS:HG2	1:B:169:GLU:HG3	2.00	0.43
1:B:710:ASN:OD1	1:B:710:ASN:N	2.44	0.43
1:A:476:GLY:H	1:A:487:ASN:HB3	1.83	0.43
1:A:396:TYR:HB2	1:A:514:SER:HB3	1.99	0.43
1:A:1012:LEU:HB3	1:C:1013:ILE:HG21	2.01	0.43
1:B:877:LEU:O	1:B:881:THR:HG23	2.19	0.43
1:C:310:LYS:HG3	1:C:600:PRO:HA	2.00	0.43
1:B:361:CYS:HB3	1:B:524:VAL:O	2.18	0.43
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	2.00	0.43
1:C:93:ALA:HB3	1:C:266:TYR:HB2	2.00	0.43
1:B:777:ASN:O	1:B:781:VAL:HG12	2.19	0.43
1:A:28:TYR:HB3	1:A:61:ASN:HB3	2.00	0.43
1:B:957:GLN:O	1:B:961:THR:HG23	2.19	0.43
1:C:717:ASN:OD1	1:C:718:PHE:N	2.49	0.43
1:C:1045:LYS:HE3	1:C:1045:LYS:HB3	1.84	0.43
1:A:708:SER:HB3	1:A:711:SER:HB3	2.01	0.43
1:A:865:LEU:HB3	1:A:870:ILE:HD11	2.00	0.43
1:B:914:ASN:N	1:B:914:ASN:OD1	2.51	0.43
1:B:966:LEU:HD12	1:B:966:LEU:HA	1.85	0.43
1:B:995:ARG:HH22	1:C:994:ASP:HB2	1.84	0.43
1:B:1115:ILE:HG22	1:B:1137:VAL:HG23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:825:LYS:HD3	1:C:942:ALA:HA	2.00	0.43
1:A:938:LEU:HD13	1:A:938:LEU:HA	1.87	0.43
1:A:990:GLU:HA	1:A:993:ILE:HG12	2.00	0.43
1:B:1119:ASN:OD1	1:B:1119:ASN:N	2.47	0.43
1:A:104:TRP:H	1:A:119:ILE:HB	1.84	0.43
1:A:277:LEU:HB3	1:A:285:ILE:HD12	1.99	0.43
1:B:760:CYS:HA	1:B:763:LEU:HG	2.00	0.43
1:C:451:TYR:HB2	1:C:495:TYR:CE2	2.53	0.43
1:B:276:LEU:HD13	1:B:301:CYS:HB2	2.00	0.43
1:C:216:LEU:HD21	1:C:266:TYR:HE2	1.84	0.43
1:B:190:ARG:HB3	1:B:192:PHE:CE1	2.54	0.43
1:B:1013:ILE:HG21	1:C:1012:LEU:HB3	1.99	0.43
1:A:91:TYR:HD2	1:A:193:VAL:HG12	1.83	0.43
1:C:276:LEU:HD22	1:C:306:PHE:CE2	2.53	0.43
1:A:664:ILE:O	1:A:671:CYS:HB2	2.18	0.43
1:B:562:PHE:HD2	1:C:41:LYS:HD2	1.83	0.43
1:A:426:PRO:HG2	1:A:429:PHE:HB2	1.99	0.43
1:B:1049:LEU:HB2	1:B:1065:VAL:HG13	1.99	0.43
1:A:1039:ARG:HH11	1:C:1039:ARG:HH12	1.67	0.43
1:B:95:THR:HG22	1:B:189:LEU:HD11	2.00	0.43
1:B:708:SER:HB3	1:B:711:SER:HB3	2.00	0.43
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.43
1:C:393:THR:HA	1:C:522:ALA:HA	2.01	0.43
1:C:578:ASP:OD2	1:C:581:THR:OG1	2.34	0.43
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.43
1:B:707:TYR:HD2	1:C:792:PRO:HG3	1.83	0.43
1:B:1084:ASP:OD1	1:B:1086:LYS:HG2	2.19	0.43
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.54	0.43
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.19	0.43
1:B:1110:TYR:CZ	1:B:1112:PRO:HG3	2.54	0.43
1:C:898:PHE:HA	1:C:901:GLN:HB2	2.01	0.43
1:B:48:LEU:HB3	1:B:276:LEU:HD21	2.00	0.43
1:A:229:LEU:HD12	1:A:231:ILE:HD11	2.00	0.43
1:C:818:ILE:O	1:C:822:LEU:HG	2.19	0.43
1:C:866:THR:HG22	1:C:869:MET:SD	2.59	0.43
1:C:1002:GLN:HA	1:C:1005:GLN:HE21	1.84	0.43
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.53	0.43
1:B:318:PHE:HE2	1:B:615:VAL:HG21	1.83	0.43
1:B:957:GLN:CD	1:C:765:ARG:HH12	2.22	0.43
1:C:360:ASN:ND2	1:C:523:THR:OG1	2.51	0.43
1:C:866:THR:O	1:C:870:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:908:GLY:O	1:C:1038:LYS:NZ	2.40	0.43
1:B:901:GLN:HE21	1:B:905:ARG:NE	2.15	0.43
1:C:998:THR:HA	1:C:1001:LEU:HG	2.01	0.43
1:A:858:LEU:HD13	1:A:959:LEU:HD12	2.01	0.43
1:C:141:LEU:HB2	1:C:246:ILE:HD13	2.00	0.43
1:C:1084:ASP:OD2	1:C:1086:LYS:NZ	2.50	0.43
1:A:197:ILE:HB	1:A:202:LYS:HZ1	1.82	0.43
1:A:931:ILE:HA	1:A:934:ILE:HG22	2.00	0.43
1:A:1041:ASP:HB3	1:B:1030:SER:HB2	2.00	0.43
1:C:93:ALA:HB3	1:C:266:TYR:HB2	2.01	0.43
1:C:314:GLN:HE21	1:C:316:SER:H	1.65	0.43
1:C:758:SER:O	1:C:761:THR:OG1	2.35	0.43
1:A:403:ARG:HG2	1:A:497:PHE:HE1	1.83	0.43
1:B:702:GLU:HA	1:C:788:ILE:HG13	2.00	0.43
1:C:172:SER:OG	1:C:173:GLN:N	2.52	0.43
1:C:521:PRO:HG3	1:C:564:GLN:HE22	1.84	0.43
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.19	0.43
1:A:908:GLY:O	1:A:1038:LYS:NZ	2.39	0.43
1:B:897:PRO:HG2	1:B:900:MET:HG2	2.01	0.43
1:C:191:GLU:OE2	1:C:191:GLU:N	2.50	0.43
1:A:609:ALA:HB2	1:A:692:ILE:HG21	2.00	0.43
1:B:1096:VAL:HG23	1:B:1103:PHE:HB2	2.00	0.43
1:C:650:LEU:HD21	1:C:653:ALA:HB3	2.01	0.43
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.54	0.43
1:B:699:LEU:HD23	1:B:699:LEU:HA	1.88	0.43
1:B:985:ASP:OD2	1:B:987:PRO:HD2	2.19	0.43
1:B:470:THR:HB	1:B:492:LEU:HD22	1.99	0.43
1:A:312:ILE:HD13	1:A:312:ILE:HA	1.81	0.43
1:B:497:PHE:CE2	1:B:507:PRO:HB3	2.53	0.43
1:B:724:THR:O	1:B:724:THR:OG1	2.37	0.43
1:C:101:ILE:HB	1:C:190:ARG:HH22	1.83	0.43
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.43
1:B:722:VAL:HG12	1:B:930:ALA:HB1	1.99	0.43
1:B:870:ILE:O	1:B:874:THR:HG23	2.19	0.43
1:C:878:LEU:O	1:C:882:ILE:HG12	2.19	0.43
1:C:961:THR:HA	1:C:964:LYS:HE2	2.00	0.43
1:C:975:SER:O	1:C:1000:ARG:NH2	2.51	0.43
1:A:316:SER:OG	1:A:317:ASN:N	2.52	0.43
1:B:96:GLU:OE1	1:B:100:ILE:N	2.51	0.43
1:B:877:LEU:O	1:B:881:THR:HG23	2.19	0.43
1:C:31:SER:HB2	1:C:34:ARG:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1010:GLN:HB3	1:C:1014:ARG:HH21	1.83	0.43
1:C:1081:ILE:HG13	1:C:1115:ILE:HD13	1.99	0.43
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	2.00	0.43
1:A:273:ARG:HH22	1:A:293:LEU:HB2	1.83	0.43
1:A:741:TYR:HD1	1:A:742:ILE:HD13	1.83	0.43
1:B:761:THR:O	1:B:765:ARG:HG2	2.19	0.43
1:B:946:GLY:HA2	1:B:949:GLN:HB2	2.00	0.43
1:C:1047:TYR:HD2	1:C:1067:TYR:HD2	1.67	0.43
1:A:717:ASN:HB3	1:A:1071:GLN:HG3	2.01	0.43
1:B:969:ASN:OD1	1:B:972:ALA:N	2.52	0.43
1:C:642:VAL:HG23	1:C:651:ILE:HG22	2.00	0.43
1:C:555:SER:HB3	1:C:586:ASP:HB2	2.00	0.43
1:A:815:ARG:HG3	1:A:819:GLU:HB3	1.99	0.43
1:B:931:ILE:HA	1:B:934:ILE:HG22	2.00	0.43
1:A:552:LEU:HB3	1:A:585:LEU:HD23	2.01	0.43
1:C:452:LEU:HD23	1:C:492:LEU:HB3	1.99	0.43
1:B:556:ASN:O	1:B:558:LYS:NZ	2.51	0.43
1:B:870:ILE:O	1:B:874:THR:HG23	2.19	0.43
1:B:738:CYS:O	1:B:742:ILE:HG12	2.18	0.43
1:C:328:ARG:HD3	1:C:328:ARG:N	2.33	0.43
1:A:731:MET:HB3	1:A:774:GLN:NE2	2.33	0.43
1:C:1050:MET:HG2	1:C:1065:VAL:HG22	2.00	0.43
1:A:766:ALA:O	1:A:770:ILE:HG13	2.19	0.43
1:A:949:GLN:HA	1:A:952:VAL:HG22	2.00	0.43
1:B:401:VAL:HG22	1:B:509:ARG:HG2	2.00	0.43
1:B:946:GLY:HA2	1:B:949:GLN:HB2	1.99	0.43
1:C:418:ILE:O	1:C:422:ASN:HB2	2.18	0.43
1:B:993:ILE:O	1:B:997:ILE:HG12	2.19	0.43
1:B:1054:GLN:HE21	1:B:1063:LEU:HD11	1.83	0.43
1:C:729:VAL:H	1:C:1059:GLY:HA2	1.84	0.43
1:B:312:ILE:HD13	1:B:598:ILE:HG13	2.01	0.43
1:B:57:PRO:HG3	1:B:273:ARG:HG3	2.01	0.43
1:B:722:VAL:HG12	1:B:930:ALA:HB1	2.00	0.43
1:C:581:THR:OG1	1:C:583:GLU:OE1	2.25	0.43
1:C:864:LEU:HD22	1:C:865:LEU:HD22	2.01	0.43
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.52	0.43
1:C:1049:LEU:HD12	1:C:1065:VAL:HG12	2.00	0.43
1:A:949:GLN:HA	1:A:952:VAL:HG22	2.01	0.43
1:B:717:ASN:OD1	1:B:718:PHE:N	2.48	0.43
1:B:771:ALA:HA	1:B:774:GLN:HG3	2.00	0.43
1:A:737:ASP:OD2	1:A:740:MET:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:291:CYS:O	1:B:297:SER:OG	2.35	0.43
1:B:964:LYS:O	1:B:967:SER:OG	2.36	0.43
1:B:1084:ASP:OD2	1:B:1086:LYS:NZ	2.51	0.43
1:C:784:GLN:HA	1:C:784:GLN:NE2	2.33	0.43
1:A:768:THR:O	1:A:772:VAL:HG13	2.19	0.43
1:A:861:LEU:HD13	1:A:862:PRO:HD2	2.00	0.43
1:B:746:SER:OG	1:B:748:GLU:OE1	2.37	0.43
1:C:993:ILE:O	1:C:997:ILE:HG13	2.18	0.43
1:A:1054:GLN:HB2	1:A:1061:VAL:HG22	2.00	0.43
1:C:298:GLU:O	1:C:302:THR:HG23	2.18	0.43
1:C:1091:ARG:HH12	1:C:1121:PHE:HB3	1.83	0.43
1:A:731:MET:HE2	1:A:1018:ILE:HG21	2.01	0.43
1:A:770:ILE:O	1:A:774:GLN:CB	2.63	0.43
1:B:1033:VAL:HG22	1:B:1051:SER:HB2	2.00	0.43
1:B:1076:THR:O	1:B:1097:SER:N	2.52	0.43
1:A:702:GLU:HA	1:B:788:ILE:HB	2.00	0.43
1:A:296:LEU:HD11	1:A:606:ASN:OD1	2.18	0.43
1:A:418:ILE:O	1:A:422:ASN:HB2	2.19	0.43
1:B:443:SER:HB3	1:B:499:PRO:HG3	2.01	0.43
1:B:877:LEU:O	1:B:881:THR:HG23	2.19	0.43
1:B:763:LEU:HD22	1:B:1008:VAL:HG21	2.01	0.43
1:A:717:ASN:OD1	1:A:718:PHE:N	2.50	0.43
1:B:783:ALA:HB2	1:B:873:TYR:CE2	2.53	0.43
1:C:193:VAL:HB	1:C:204:TYR:HB2	2.01	0.43
1:A:17:ASN:HB2	1:A:21:ARG:HD3	2.01	0.43
1:A:51:THR:HG22	1:A:277:LEU:HD11	2.01	0.43
1:C:756:TYR:HB3	1:C:759:PHE:CE1	2.53	0.43
1:A:452:LEU:HD23	1:A:492:LEU:HB3	1.99	0.43
1:A:737:ASP:OD1	1:A:740:MET:HB3	2.19	0.43
1:C:418:ILE:O	1:C:422:ASN:HB2	2.19	0.43
1:C:89:GLY:HA3	1:C:270:LEU:HD12	2.01	0.43
1:B:182:LYS:HD3	1:B:187:LYS:HD2	2.01	0.43
1:C:33:THR:OG1	1:C:219:GLY:O	2.32	0.43
1:C:761:THR:O	1:C:765:ARG:HG2	2.17	0.43
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.00	0.43
1:A:543:PHE:O	1:A:545:GLY:N	2.47	0.43
1:A:344:ALA:O	1:A:509:ARG:NH2	2.51	0.43
1:B:424:LYS:HD2	1:B:463:PRO:HG3	2.01	0.43
1:C:897:PRO:HG2	1:C:900:MET:HB2	2.00	0.43
1:C:934:ILE:HG13	1:C:938:LEU:HD23	2.00	0.43
1:A:711:SER:OG	1:B:895:GLN:OE1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:930:ALA:HA	1:A:933:LYS:HE2	2.01	0.43
1:B:535:LYS:NZ	1:B:554:GLU:OE2	2.51	0.43
1:C:117:LEU:HB2	1:C:233:ILE:HD11	1.99	0.43
1:C:396:TYR:HB2	1:C:514:SER:HB3	2.01	0.43
1:A:547:THR:OG1	1:B:978:ASN:OD1	2.32	0.43
1:C:33:THR:HB	1:C:220:PHE:HD1	1.84	0.43
1:C:188:ASN:OD1	1:C:207:HIS:NE2	2.47	0.43
1:A:206:LYS:NZ	1:A:208:THR:HB	2.34	0.43
1:A:726:ILE:HD11	1:A:948:LEU:HD11	2.00	0.43
1:A:856:ASN:HD22	1:A:963:VAL:HB	1.84	0.43
1:B:168:PHE:HD2	1:B:169:GLU:N	2.17	0.43
1:C:906:PHE:HB3	1:C:911:VAL:HB	2.01	0.43
1:A:878:LEU:O	1:A:882:ILE:HG12	2.19	0.43
1:C:581:THR:OG1	1:C:583:GLU:OE1	2.34	0.43
1:B:983:ARG:NH1	1:B:984:LEU:HB2	2.33	0.43
1:A:42:VAL:HG21	1:A:44:ARG:HH21	1.83	0.43
1:A:296:LEU:HB2	1:A:608:VAL:HG21	2.01	0.43
1:A:756:TYR:HB2	1:A:759:PHE:CE2	2.54	0.43
1:A:1081:ILE:HG23	1:A:1135:ASN:HB3	2.01	0.43
1:B:332:ILE:HG12	1:B:524:VAL:HG13	2.01	0.43
1:B:784:GLN:HA	1:B:784:GLN:NE2	2.33	0.43
1:B:866:THR:O	1:B:870:ILE:HG12	2.19	0.43
1:B:1010:GLN:OE1	1:B:1014:ARG:NH2	2.50	0.43
1:C:782:PHE:CE2	1:C:870:ILE:HD11	2.53	0.43
1:C:822:LEU:HD13	1:C:1061:VAL:HG21	1.99	0.43
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	2.00	0.43
1:A:205:SER:HB3	1:A:226:LEU:HD22	2.00	0.43
1:C:784:GLN:HA	1:C:784:GLN:NE2	2.34	0.43
1:A:532:ASN:OD1	1:A:533:LEU:N	2.51	0.43
1:C:617:CYS:H	1:C:644:GLN:HE22	1.65	0.43
1:C:192:PHE:HB3	1:C:194:PHE:CE1	2.54	0.43
1:C:759:PHE:O	1:C:763:LEU:HG	2.19	0.43
1:C:805:ILE:HD12	1:C:805:ILE:HA	1.86	0.43
1:A:736:VAL:HG22	1:A:858:LEU:HD22	2.00	0.43
1:A:911:VAL:HA	1:A:1106:GLN:HE22	1.84	0.43
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.19	0.43
1:B:870:ILE:O	1:B:874:THR:HG23	2.19	0.43
1:C:759:PHE:HA	1:C:762:GLN:OE1	2.19	0.43
1:B:914:ASN:N	1:B:914:ASN:OD1	2.52	0.43
1:C:310:LYS:NZ	1:C:663:ASP:OD2	2.45	0.43
1:C:878:LEU:O	1:C:882:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:949:GLN:HA	1:C:949:GLN:NE2	2.34	0.43
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.54	0.43
1:C:738:CYS:HB2	1:C:760:CYS:HB3	1.83	0.43
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.45	0.43
1:C:86:PHE:CE1	1:C:89:GLY:HA2	2.54	0.43
1:C:870:ILE:O	1:C:874:THR:HG23	2.19	0.43
1:A:726:ILE:HD13	1:A:945:LEU:HD23	2.00	0.43
1:A:916:LEU:O	1:A:920:GLN:HB2	2.18	0.43
1:C:309:GLU:N	1:C:309:GLU:OE1	2.52	0.43
1:A:17:ASN:HB2	1:A:21:ARG:HD3	2.01	0.43
1:A:38:TYR:HD2	1:A:225:PRO:HD3	1.84	0.43
1:A:328:ARG:HD3	1:A:543:PHE:HE2	1.84	0.43
1:B:850:ILE:HG22	1:B:854:LYS:HE2	2.00	0.43
1:A:866:THR:O	1:A:870:ILE:HG12	2.19	0.43
1:C:33:THR:OG1	1:C:219:GLY:O	2.37	0.43
1:C:17:ASN:HB2	1:C:21:ARG:HD3	2.01	0.43
1:C:35:GLY:HA3	1:C:56:LEU:HB3	2.00	0.43
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.37	0.43
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	2.00	0.43
1:B:392:PHE:HD1	1:B:517:LEU:HD13	1.84	0.43
1:C:338:PHE:HB3	1:C:364:ASP:HB3	2.01	0.43
1:B:361:CYS:HB3	1:B:524:VAL:O	2.19	0.43
1:B:412:PRO:HG3	1:B:429:PHE:HD1	1.84	0.43
1:C:866:THR:HG22	1:C:869:MET:HG3	1.99	0.43
1:B:53:ASP:OD2	1:B:54:LEU:N	2.41	0.43
1:B:927:PHE:HE1	1:B:1065:VAL:HG11	1.84	0.43
1:A:229:LEU:HD12	1:A:231:ILE:HD11	2.01	0.43
1:A:818:ILE:O	1:A:822:LEU:HD12	2.19	0.43
1:B:37:TYR:OH	1:B:54:LEU:O	2.31	0.43
1:A:197:ILE:HB	1:A:202:LYS:NZ	2.34	0.43
1:A:906:PHE:HB3	1:A:911:VAL:HB	2.01	0.43
1:B:105:ILE:HB	1:B:239:GLN:HB2	2.00	0.43
1:B:954:GLN:HE21	1:B:1014:ARG:HH11	1.67	0.43
1:C:291:CYS:HB2	1:C:298:GLU:HA	2.01	0.43
1:B:954:GLN:HB2	1:B:1014:ARG:NH1	2.34	0.43
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.43
1:A:393:THR:HA	1:A:522:ALA:HA	2.01	0.43
1:B:37:TYR:OH	1:B:54:LEU:O	2.28	0.43
1:B:1086:LYS:HE2	1:B:1122:VAL:HG11	2.01	0.43
1:C:105:ILE:HG22	1:C:110:LEU:HD22	2.01	0.43
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:992:GLN:N	1:B:992:GLN:OE1	2.52	0.43
1:B:1006:THR:HG22	1:C:1005:GLN:HE21	1.83	0.43
1:A:737:ASP:OD1	1:A:740:MET:HB3	2.19	0.43
1:B:726:ILE:HD12	1:B:1061:VAL:HG22	2.01	0.43
1:B:870:ILE:O	1:B:874:THR:HG23	2.19	0.43
1:A:205:SER:HB2	1:A:226:LEU:HD12	2.00	0.43
1:A:1105:THR:HG23	1:A:1111:GLU:H	1.84	0.43
1:B:1084:ASP:OD2	1:B:1086:LYS:NZ	2.50	0.43
1:A:768:THR:O	1:A:772:VAL:HG13	2.18	0.43
1:A:965:GLN:O	1:A:968:SER:OG	2.37	0.43
1:B:591:SER:HB3	1:B:615:VAL:HG23	2.00	0.43
1:B:733:LYS:HE3	1:B:733:LYS:HB3	1.91	0.43
1:A:87:ASN:OD1	1:A:87:ASN:N	2.50	0.43
1:A:1141:LEU:HD22	1:B:1141:LEU:HD22	2.01	0.43
1:B:985:ASP:OD2	1:B:987:PRO:HD2	2.19	0.43
1:A:777:ASN:HB2	1:A:1019:ARG:HH21	1.84	0.43
1:C:200:TYR:HE1	1:C:230:PRO:HB3	1.84	0.43
1:B:993:ILE:O	1:B:997:ILE:HG12	2.19	0.43
1:A:104:TRP:HB2	1:A:106:PHE:CE2	2.50	0.43
1:A:984:LEU:HD12	1:A:985:ASP:H	1.84	0.43
1:B:24:LEU:HD12	1:B:80:ALA:HB2	2.01	0.43
1:B:993:ILE:O	1:B:997:ILE:HG12	2.19	0.43
1:C:104:TRP:HB2	1:C:106:PHE:CE2	2.54	0.43
1:A:109:THR:OG1	1:A:111:ASP:OD1	2.26	0.43
1:A:774:GLN:HE22	1:A:1018:ILE:HG21	1.84	0.43
1:C:731:MET:H	1:C:774:GLN:HE21	1.67	0.43
1:A:44:ARG:HD2	1:A:279:TYR:HE2	1.84	0.43
1:A:796:ASP:OD1	1:C:709:ASN:ND2	2.52	0.43
1:A:1040:VAL:HG11	1:B:1035:GLY:HA3	2.01	0.43
1:B:1118:ASP:OD1	1:B:1118:ASP:N	2.38	0.43
1:A:970:PHE:HB3	1:B:755:GLN:NE2	2.33	0.43
1:A:773:GLU:OE1	1:A:1019:ARG:NE	2.52	0.43
1:B:130:VAL:HB	1:B:168:PHE:HB3	2.00	0.43
1:C:295:PRO:HG2	1:C:608:VAL:HG11	2.01	0.43
1:C:362:VAL:HG21	1:C:524:VAL:HB	2.01	0.43
1:B:314:GLN:HE22	1:B:595:VAL:H	1.67	0.43
1:B:314:GLN:HE22	1:B:595:VAL:N	2.16	0.43
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.40	0.43
1:A:224:GLU:HA	1:A:225:PRO:HD3	1.95	0.43
1:A:328:ARG:NH2	1:A:580:GLN:OE1	2.51	0.43
1:B:342:PHE:HE1	1:B:511:VAL:HG11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1123:SER:HB3	1:C:914:ASN:HD21	1.84	0.43
1:C:915:VAL:O	1:C:919:ASN:HB2	2.18	0.43
1:A:768:THR:O	1:A:772:VAL:HG13	2.19	0.43
1:B:946:GLY:HA2	1:B:949:GLN:HB3	2.00	0.43
1:B:314:GLN:NE2	1:B:316:SER:O	2.52	0.43
1:C:337:PRO:HG3	1:C:356:LYS:HD3	2.01	0.43
1:C:484:LYS:HE3	1:C:489:TYR:HA	2.00	0.43
1:C:971:GLY:O	1:C:995:ARG:NH2	2.44	0.43
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.00	0.43
1:A:438:SER:HB3	1:A:509:ARG:HG3	2.01	0.43
1:C:777:ASN:O	1:C:781:VAL:HG12	2.19	0.43
1:C:870:ILE:O	1:C:874:THR:HG23	2.19	0.43
1:B:66:HIS:HA	1:B:264:ALA:HA	2.01	0.42
1:B:381:GLY:HA3	1:C:983:ARG:HH12	1.84	0.42
1:C:906:PHE:HB3	1:C:911:VAL:HB	2.00	0.42
1:C:984:LEU:HB3	1:C:988:GLU:HG2	2.01	0.42
1:A:869:MET:HB2	1:A:869:MET:HE2	1.84	0.42
1:C:1001:LEU:HD23	1:C:1001:LEU:HA	1.90	0.42
1:C:737:ASP:OD1	1:C:740:MET:HB2	2.19	0.42
1:B:484:LYS:HD2	1:B:490:PHE:HB2	2.00	0.42
1:C:878:LEU:HD21	1:C:1054:GLN:HE22	1.83	0.42
1:A:418:ILE:O	1:A:422:ASN:HB2	2.20	0.42
1:A:642:VAL:HG13	1:A:651:ILE:HG22	2.00	0.42
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.84	0.42
1:C:1081:ILE:HG13	1:C:1115:ILE:HD13	2.00	0.42
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.42	0.42
1:B:280:ASN:OD1	1:B:284:THR:N	2.52	0.42
1:B:1118:ASP:OD1	1:B:1118:ASP:N	2.41	0.42
1:C:784:GLN:HA	1:C:784:GLN:NE2	2.34	0.42
1:A:193:VAL:HG23	1:A:270:LEU:HD21	2.01	0.42
1:A:331:ASN:OD1	1:A:580:GLN:NE2	2.52	0.42
1:A:596:SER:HB2	1:A:611:LEU:HB3	2.00	0.42
1:C:870:ILE:O	1:C:874:THR:HG23	2.18	0.42
1:A:702:GLU:HA	1:B:788:ILE:HB	2.01	0.42
1:C:37:TYR:OH	1:C:53:ASP:OD1	2.33	0.42
1:B:707:TYR:CD2	1:C:792:PRO:HG3	2.54	0.42
1:C:126:VAL:H	1:C:172:SER:HB3	1.84	0.42
1:C:731:MET:HG2	1:C:774:GLN:NE2	2.34	0.42
1:C:870:ILE:O	1:C:874:THR:HG23	2.19	0.42
1:C:1083:HIS:CB	1:C:1088:HIS:HE1	2.27	0.42
1:A:323:THR:HB	1:A:537:LYS:HZ3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:LEU:HD13	1:B:492:LEU:HD11	2.01	0.42
1:B:710:ASN:OD1	1:B:710:ASN:N	2.45	0.42
1:C:717:ASN:OD1	1:C:718:PHE:N	2.50	0.42
1:C:1041:ASP:HB2	1:C:1045:LYS:HD2	2.01	0.42
1:B:979:ASP:HA	1:B:982:SER:HG	1.84	0.42
1:C:106:PHE:HD2	1:C:117:LEU:HD13	1.83	0.42
1:C:554:GLU:HA	1:C:585:LEU:HA	2.01	0.42
1:C:966:LEU:HG	1:C:1000:ARG:NH1	2.34	0.42
1:A:1013:ILE:HD13	1:B:1012:LEU:HG	2.01	0.42
1:B:933:LYS:HB2	1:B:933:LYS:HE2	1.88	0.42
1:C:1080:ALA:HA	1:C:1095:PHE:HE2	1.84	0.42
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.19	0.42
1:B:1091:ARG:NH2	1:B:1120:THR:O	2.52	0.42
1:C:96:GLU:OE1	1:C:100:ILE:N	2.52	0.42
1:C:323:THR:OG1	1:C:324:GLU:OE2	2.27	0.42
1:C:776:LYS:O	1:C:780:GLU:HG2	2.20	0.42
1:A:86:PHE:HD1	1:A:90:VAL:HG23	1.84	0.42
1:A:378:LYS:HG3	1:A:433:VAL:HB	2.01	0.42
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.43	0.42
1:C:650:LEU:HD23	1:C:650:LEU:HA	1.89	0.42
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.43	0.42
1:A:857:GLY:HA2	1:C:592:PHE:HZ	1.84	0.42
1:B:14:GLN:HA	1:B:138:ASP:HB3	2.01	0.42
1:B:295:PRO:HG2	1:B:608:VAL:HG11	2.00	0.42
1:B:361:CYS:H	1:B:522:ALA:HB1	1.84	0.42
1:C:316:SER:OG	1:C:317:ASN:N	2.52	0.42
1:C:874:THR:HG21	1:C:1055:SER:HB3	2.01	0.42
1:A:742:ILE:HD12	1:A:742:ILE:HA	1.92	0.42
1:A:819:GLU:HA	1:A:822:LEU:HB2	2.01	0.42
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.18	0.42
1:B:139:PRO:HG2	1:B:245:HIS:HD1	1.82	0.42
1:B:1041:ASP:HB3	1:C:1030:SER:HB3	2.01	0.42
1:C:457:ARG:NH1	1:C:459:SER:OG	2.52	0.42
1:A:212:LEU:HD13	1:A:217:PRO:HD3	2.00	0.42
1:B:92:PHE:HB3	1:B:192:PHE:HB2	2.00	0.42
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	2.00	0.42
1:B:1028:LYS:NZ	1:B:1042:PHE:O	2.52	0.42
1:A:792:PRO:HG3	1:C:707:TYR:HB3	2.00	0.42
1:B:68:ILE:HG12	1:B:78:ARG:HB2	2.01	0.42
1:C:887:THR:HG21	1:C:894:LEU:HB2	2.01	0.42
1:B:140:PHE:HE2	1:B:247:SER:HG	1.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:321:GLN:OE1	1:B:321:GLN:N	2.51	0.42
1:B:756:TYR:CE2	1:B:997:ILE:HD12	2.54	0.42
1:C:758:SER:OG	1:C:762:GLN:NE2	2.52	0.42
1:C:206:LYS:HB2	1:C:223:LEU:HA	2.01	0.42
1:A:316:SER:OG	1:A:317:ASN:N	2.51	0.42
1:A:473:TYR:H	1:A:491:PRO:HD3	1.84	0.42
1:B:229:LEU:HD12	1:B:231:ILE:HD11	2.01	0.42
1:A:676:THR:HA	1:A:690:GLN:HG2	2.01	0.42
1:B:708:SER:HB3	1:B:711:SER:HB3	2.01	0.42
1:B:738:CYS:HB3	1:B:760:CYS:HB3	1.84	0.42
1:B:878:LEU:O	1:B:882:ILE:HG12	2.19	0.42
1:C:128:ILE:HG12	1:C:229:LEU:HD11	2.00	0.42
1:B:44:ARG:HE	1:B:279:TYR:HE2	1.67	0.42
1:B:103:GLY:HA3	1:B:119:ILE:O	2.19	0.42
1:C:128:ILE:HD13	1:C:170:TYR:HD1	1.84	0.42
1:A:761:THR:O	1:A:765:ARG:HG2	2.19	0.42
1:B:617:CYS:N	1:B:649:CYS:SG	2.85	0.42
1:B:763:LEU:HD22	1:B:1008:VAL:HG11	2.01	0.42
1:C:776:LYS:O	1:C:780:GLU:HG2	2.18	0.42
1:C:316:SER:OG	1:C:317:ASN:N	2.52	0.42
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.84	0.42
1:A:226:LEU:HD12	1:A:226:LEU:HA	1.87	0.42
1:B:189:LEU:HD12	1:B:189:LEU:HA	1.69	0.42
1:B:307:THR:HG23	1:B:602:THR:HB	2.00	0.42
1:B:596:SER:HB2	1:B:611:LEU:HB3	2.00	0.42
1:B:1106:GLN:NE2	1:B:1111:GLU:OE1	2.52	0.42
1:A:906:PHE:HB3	1:A:911:VAL:HB	2.01	0.42
1:B:761:THR:O	1:B:765:ARG:HG2	2.19	0.42
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.41	0.42
1:B:332:ILE:HG12	1:B:524:VAL:HG13	2.01	0.42
1:A:711:SER:OG	1:B:895:GLN:OE1	2.37	0.42
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.43	0.42
1:B:776:LYS:O	1:B:780:GLU:HG3	2.19	0.42
1:C:31:SER:HB3	1:C:34:ARG:HB2	2.00	0.42
1:C:103:GLY:HA3	1:C:119:ILE:O	2.19	0.42
1:A:726:ILE:HD12	1:A:726:ILE:HA	1.84	0.42
1:B:206:LYS:HB2	1:B:223:LEU:HA	2.01	0.42
1:B:707:TYR:HD2	1:C:792:PRO:HG3	1.84	0.42
1:B:1110:TYR:CZ	1:B:1112:PRO:HG3	2.54	0.42
1:A:294:ASP:N	1:A:294:ASP:OD2	2.52	0.42
1:A:676:THR:HA	1:A:690:GLN:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:777:ASN:O	1:B:781:VAL:HG12	2.20	0.42
1:B:783:ALA:HB2	1:B:873:TYR:CE1	2.53	0.42
1:A:931:ILE:HA	1:A:934:ILE:HG22	2.02	0.42
1:B:91:TYR:HE1	1:B:93:ALA:HB2	1.84	0.42
1:A:108:THR:O	1:A:237:ARG:NH1	2.52	0.42
1:B:1028:LYS:HG2	1:B:1042:PHE:CE1	2.55	0.42
1:C:734:THR:HG21	1:C:959:LEU:HD21	2.01	0.42
1:B:96:GLU:OE1	1:B:100:ILE:N	2.52	0.42
1:B:201:PHE:HD1	1:B:229:LEU:HD12	1.85	0.42
1:B:353:TRP:HE1	1:B:355:ARG:HH21	1.67	0.42
1:A:676:THR:HA	1:A:690:GLN:HG2	2.01	0.42
1:A:869:MET:HG2	1:C:699:LEU:HD11	2.00	0.42
1:A:1014:ARG:HA	1:A:1017:GLU:HG2	2.01	0.42
1:A:99:ASN:O	1:A:102:ARG:NH2	2.51	0.42
1:B:776:LYS:O	1:B:780:GLU:HG3	2.19	0.42
1:B:949:GLN:HA	1:B:952:VAL:HG22	2.01	0.42
1:C:741:TYR:OH	1:C:962:LEU:O	2.22	0.42
1:A:37:TYR:OH	1:A:53:ASP:OD1	2.31	0.42
1:B:117:LEU:HD13	1:B:235:ILE:HD11	2.02	0.42
1:B:296:LEU:HB2	1:B:608:VAL:HG21	2.00	0.42
1:B:1118:ASP:OD1	1:B:1118:ASP:N	2.36	0.42
1:A:58:PHE:HD1	1:A:290:ASP:HB2	1.85	0.42
1:A:866:THR:O	1:A:870:ILE:HG12	2.18	0.42
1:A:977:LEU:H	1:A:977:LEU:HG	1.42	0.42
1:C:38:TYR:HE2	1:C:224:GLU:HG3	1.83	0.42
1:A:1128:VAL:HG11	1:B:918:GLU:HG3	2.01	0.42
1:B:611:LEU:HD12	1:B:650:LEU:HD13	2.00	0.42
1:C:106:PHE:HD2	1:C:117:LEU:HD22	1.84	0.42
1:A:194:PHE:HD1	1:A:203:ILE:HD11	1.84	0.42
1:B:1116:THR:HG22	1:B:1138:TYR:HD2	1.83	0.42
1:A:33:THR:OG1	1:A:219:GLY:O	2.28	0.42
1:A:326:ILE:HD12	1:A:534:VAL:HG12	2.01	0.42
1:C:193:VAL:HG22	1:C:204:TYR:HB2	2.02	0.42
1:A:866:THR:O	1:A:870:ILE:HG12	2.19	0.42
1:A:1012:LEU:HB2	1:C:1013:ILE:HD13	2.02	0.42
1:B:562:PHE:HD2	1:C:41:LYS:HD2	1.84	0.42
1:C:714:ILE:HD13	1:C:714:ILE:HA	1.87	0.42
1:C:1005:GLN:O	1:C:1009:THR:HG23	2.19	0.42
1:B:589:PRO:HG2	1:C:855:PHE:HB3	2.00	0.42
1:A:856:ASN:OD1	1:A:856:ASN:N	2.44	0.42
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:877:LEU:O	1:B:881:THR:HG23	2.19	0.42
1:C:273:ARG:HD3	1:C:273:ARG:HA	1.90	0.42
1:C:323:THR:HG21	1:C:537:LYS:HE2	2.01	0.42
1:A:86:PHE:HE1	1:A:89:GLY:HA2	1.83	0.42
1:B:931:ILE:HA	1:B:934:ILE:HG22	2.01	0.42
1:A:534:VAL:HG11	1:A:537:LYS:HE3	2.01	0.42
1:A:1028:LYS:O	1:A:1032:CYS:HB2	2.19	0.42
1:B:37:TYR:OH	1:B:54:LEU:O	2.25	0.42
1:C:782:PHE:HD1	1:C:782:PHE:HA	1.74	0.42
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	1.99	0.42
1:C:33:THR:HB	1:C:220:PHE:HD1	1.84	0.42
1:A:965:GLN:O	1:A:968:SER:OG	2.36	0.42
1:C:986:PRO:O	1:C:990:GLU:HG3	2.19	0.42
1:C:1001:LEU:O	1:C:1005:GLN:HG3	2.20	0.42
1:A:532:ASN:OD1	1:A:533:LEU:N	2.52	0.42
1:C:377:PHE:HE2	1:C:434:ILE:HG13	1.83	0.42
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.31	0.42
1:A:933:LYS:HE2	1:A:933:LYS:HB2	1.89	0.42
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.52	0.42
1:C:37:TYR:OH	1:C:53:ASP:OD2	2.34	0.42
1:A:189:LEU:HD22	1:A:210:ILE:HD13	2.01	0.42
1:C:741:TYR:CD2	1:C:1004:LEU:HD12	2.54	0.42
1:C:869:MET:HB2	1:C:869:MET:HE2	1.81	0.42
1:B:192:PHE:HB3	1:B:194:PHE:HE1	1.83	0.42
1:A:819:GLU:HA	1:A:822:LEU:HB2	2.01	0.42
1:A:1110:TYR:CZ	1:A:1112:PRO:HG3	2.54	0.42
1:B:1110:TYR:CZ	1:B:1112:PRO:HG3	2.54	0.42
1:C:31:SER:HB2	1:C:34:ARG:HB2	2.01	0.42
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.84	0.42
1:C:17:ASN:HB2	1:C:21:ARG:HD3	2.01	0.42
1:C:193:VAL:HG23	1:C:270:LEU:HD21	2.01	0.42
1:C:782:PHE:HD1	1:C:782:PHE:HA	1.72	0.42
1:C:977:LEU:HD12	1:C:977:LEU:HA	1.68	0.42
1:C:989:ALA:O	1:C:993:ILE:HG12	2.20	0.42
1:C:994:ASP:O	1:C:998:THR:HG23	2.19	0.42
1:A:946:GLY:HA2	1:A:949:GLN:HB3	2.01	0.42
1:A:1129:VAL:HG13	1:A:1132:ILE:HB	2.00	0.42
1:B:1051:SER:HG	1:B:1064:HIS:CE1	2.33	0.42
1:C:39:PRO:HG3	1:C:51:THR:HG21	2.00	0.42
1:C:774:GLN:HE22	1:C:1018:ILE:HG12	1.85	0.42
1:C:777:ASN:O	1:C:781:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:802:PHE:HE1	1:C:882:ILE:HD12	1.83	0.42
1:C:1001:LEU:HD23	1:C:1001:LEU:HA	1.87	0.42
1:A:316:SER:OG	1:A:317:ASN:N	2.52	0.42
1:C:906:PHE:HA	1:C:909:ILE:HG12	2.02	0.42
1:C:983:ARG:HG2	1:C:984:LEU:HD23	2.01	0.42
1:C:1010:GLN:HE22	1:C:1014:ARG:HE	1.66	0.42
1:B:951:VAL:HA	1:B:954:GLN:HG3	2.01	0.42
1:C:418:ILE:O	1:C:422:ASN:HB2	2.19	0.42
1:C:886:TRP:HH2	1:C:904:TYR:HB3	1.84	0.42
1:C:33:THR:OG1	1:C:219:GLY:O	2.29	0.42
1:A:563:GLN:O	1:A:577:ARG:NH1	2.44	0.42
1:B:410:ILE:HD12	1:B:410:ILE:HA	1.82	0.42
1:C:40:ASP:OD1	1:C:41:LYS:N	2.53	0.42
1:A:738:CYS:SG	1:A:739:THR:N	2.93	0.42
1:C:96:GLU:OE1	1:C:100:ILE:N	2.52	0.42
1:A:476:GLY:H	1:A:487:ASN:HB3	1.84	0.42
1:B:776:LYS:NZ	1:B:780:GLU:OE2	2.52	0.42
1:A:775:ASP:O	1:A:778:THR:OG1	2.30	0.42
1:B:743:CYS:HB3	1:B:977:LEU:HD12	2.02	0.42
1:B:968:SER:OG	1:C:755:GLN:O	2.37	0.42
1:C:1010:GLN:HG3	1:C:1014:ARG:HH21	1.84	0.42
1:C:1119:ASN:OD1	1:C:1119:ASN:N	2.53	0.42
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.01	0.42
1:B:993:ILE:O	1:B:997:ILE:HG12	2.19	0.42
1:C:984:LEU:HD12	1:C:992:GLN:HE21	1.84	0.42
1:B:330:PRO:HB3	1:B:580:GLN:HG3	2.01	0.42
1:B:722:VAL:HG12	1:B:930:ALA:HB1	2.00	0.42
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	2.02	0.42
1:A:729:VAL:HG13	1:A:1059:GLY:HA2	2.02	0.42
1:A:1002:GLN:HA	1:A:1005:GLN:HG3	1.99	0.42
1:B:92:PHE:HB3	1:B:192:PHE:HB2	2.01	0.42
1:B:806:LEU:HD13	1:B:807:PRO:HD2	2.02	0.42
1:B:777:ASN:HA	1:B:780:GLU:OE2	2.19	0.42
1:C:212:LEU:HD22	1:C:217:PRO:HD3	2.01	0.42
1:C:870:ILE:O	1:C:874:THR:HG23	2.20	0.42
1:A:35:GLY:HA3	1:A:56:LEU:HB3	2.01	0.42
1:A:869:MET:HG2	1:C:699:LEU:HD11	2.02	0.42
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.53	0.42
1:C:33:THR:HB	1:C:220:PHE:HD1	1.84	0.42
1:A:33:THR:OG1	1:A:219:GLY:O	2.34	0.42
1:A:1110:TYR:CZ	1:A:1112:PRO:HG3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:770:ILE:O	1:B:774:GLN:HB2	2.19	0.42
1:B:960:ASN:HA	1:B:963:VAL:HG22	2.02	0.42
1:A:185:ASN:ND2	1:A:212:LEU:O	2.52	0.42
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.84	0.42
1:A:32:PHE:HE2	1:A:218:GLN:HE21	1.68	0.42
1:A:53:ASP:OD2	1:A:195:LYS:NZ	2.51	0.42
1:A:344:ALA:O	1:A:509:ARG:NH1	2.53	0.42
1:B:226:LEU:HD12	1:B:226:LEU:HA	1.90	0.42
1:C:717:ASN:OD1	1:C:718:PHE:N	2.48	0.42
1:C:729:VAL:HG21	1:C:1060:VAL:HG13	2.01	0.42
1:A:857:GLY:HA2	1:C:592:PHE:HZ	1.84	0.42
1:B:1086:LYS:HE2	1:B:1122:VAL:HG11	2.01	0.42
1:C:948:LEU:HD11	1:C:1059:GLY:HA3	2.00	0.42
1:A:141:LEU:HD13	1:A:154:GLU:HG3	2.00	0.42
1:A:206:LYS:HZ3	1:A:221:SER:HB2	1.84	0.42
1:B:730:SER:O	1:B:1058:HIS:HB3	2.20	0.42
1:A:702:GLU:HA	1:B:788:ILE:HB	2.02	0.42
1:A:740:MET:SD	1:C:319:ARG:NH1	2.93	0.42
1:A:851:CYS:HA	1:A:854:LYS:HE3	2.01	0.42
1:C:296:LEU:O	1:C:299:THR:OG1	2.34	0.42
1:C:886:TRP:CH2	1:C:904:TYR:HB3	2.55	0.42
1:C:737:ASP:O	1:C:741:TYR:CB	2.67	0.42
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.25	0.42
1:A:1016:ALA:HA	1:A:1019:ARG:HH12	1.85	0.42
1:C:931:ILE:HA	1:C:934:ILE:HG22	2.02	0.42
1:B:774:GLN:HA	1:B:774:GLN:NE2	2.34	0.42
1:B:108:THR:OG1	1:B:234:ASN:O	2.37	0.42
1:B:777:ASN:HA	1:B:780:GLU:HG2	2.02	0.42
1:B:934:ILE:HD12	1:B:934:ILE:HA	1.85	0.42
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.19	0.42
1:B:280:ASN:OD1	1:B:284:THR:N	2.53	0.42
1:B:946:GLY:HA2	1:B:949:GLN:HB2	2.01	0.42
1:A:769:GLY:O	1:A:773:GLU:HG3	2.20	0.42
1:B:88:ASP:OD2	1:B:271:GLN:NE2	2.52	0.42
1:B:139:PRO:HG2	1:B:245:HIS:HD1	1.85	0.42
1:B:401:VAL:HG22	1:B:509:ARG:HG2	2.02	0.42
1:B:934:ILE:HA	1:B:934:ILE:HD12	1.73	0.42
1:A:323:THR:OG1	1:A:324:GLU:OE2	2.19	0.42
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	2.01	0.42
1:B:38:TYR:HE2	1:B:224:GLU:HG3	1.84	0.42
1:B:357:ARG:NH2	1:B:394:ASN:OD1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:784:GLN:HG3	1:B:1034:LEU:HD11	2.02	0.42
1:B:994:ASP:O	1:B:998:THR:HG23	2.19	0.42
1:C:731:MET:HB2	1:C:955:ASN:HD21	1.85	0.42
1:A:214:ARG:HD3	1:A:214:ARG:HA	1.93	0.42
1:A:226:LEU:HG	1:A:227:VAL:HG12	2.01	0.42
1:A:825:LYS:HD2	1:A:945:LEU:HD23	2.02	0.42
1:C:96:GLU:OE1	1:C:100:ILE:N	2.53	0.42
1:C:777:ASN:O	1:C:781:VAL:HG12	2.20	0.42
1:C:870:ILE:O	1:C:874:THR:HG23	2.20	0.42
1:C:17:ASN:HB2	1:C:21:ARG:HD3	2.01	0.42
1:B:957:GLN:O	1:B:961:THR:HG23	2.19	0.42
1:B:1102:TRP:HB2	1:B:1135:ASN:HD22	1.85	0.42
1:B:104:TRP:HB2	1:B:106:PHE:CE2	2.55	0.42
1:B:901:GLN:HE21	1:B:905:ARG:NE	2.14	0.42
1:B:1119:ASN:OD1	1:B:1119:ASN:N	2.50	0.42
1:A:438:SER:HB3	1:A:509:ARG:HG3	2.02	0.42
1:A:897:PRO:HG2	1:A:900:MET:HG2	2.02	0.42
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.84	0.42
1:B:1110:TYR:CZ	1:B:1112:PRO:HG3	2.54	0.42
1:B:182:LYS:HD3	1:B:187:LYS:HD2	2.02	0.42
1:B:330:PRO:HG2	1:B:523:THR:HA	2.02	0.42
1:B:699:LEU:HB2	1:C:788:ILE:HD11	2.01	0.42
1:B:957:GLN:HG3	1:C:765:ARG:NH1	2.35	0.42
1:A:753:LEU:HD12	1:A:753:LEU:HA	1.87	0.42
1:A:759:PHE:HA	1:A:762:GLN:HG3	2.01	0.42
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.19	0.42
1:B:226:LEU:HD12	1:B:226:LEU:HA	1.88	0.42
1:C:938:LEU:HD13	1:C:938:LEU:HA	1.85	0.42
1:A:230:PRO:HB2	1:C:357:ARG:NH1	2.34	0.42
1:A:702:GLU:HA	1:B:788:ILE:HB	2.01	0.42
1:A:1015:ALA:HA	1:A:1018:ILE:HG22	2.01	0.42
1:A:1128:VAL:HG11	1:B:918:GLU:HG3	2.02	0.42
1:B:643:PHE:CE2	1:B:645:THR:HG22	2.55	0.42
1:C:452:LEU:HB3	1:C:492:LEU:HD11	2.00	0.42
1:A:105:ILE:HB	1:A:241:LEU:HD21	2.02	0.42
1:B:870:ILE:O	1:B:874:THR:HG23	2.19	0.42
1:B:139:PRO:O	1:B:245:HIS:ND1	2.53	0.42
1:B:578:ASP:OD2	1:B:581:THR:OG1	2.34	0.42
1:B:951:VAL:HA	1:B:954:GLN:HE21	1.84	0.42
1:C:56:LEU:HD22	1:C:91:TYR:HD1	1.84	0.42
1:A:329:PHE:HD1	1:A:528:LYS:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:870:ILE:HD12	1:B:870:ILE:HA	1.93	0.42
1:A:32:PHE:CD2	1:A:33:THR:HG23	2.55	0.42
1:B:82:PRO:HG2	1:B:84:LEU:HD11	2.01	0.42
1:B:774:GLN:HA	1:B:777:ASN:HD21	1.84	0.42
1:A:320:VAL:HG22	1:A:590:CYS:HB3	2.02	0.42
1:A:825:LYS:NZ	1:A:938:LEU:O	2.38	0.42
1:B:776:LYS:NZ	1:B:780:GLU:OE2	2.43	0.42
1:B:909:ILE:HA	1:B:1038:LYS:NZ	2.35	0.42
1:C:805:ILE:O	1:C:1054:GLN:NE2	2.53	0.42
1:A:452:LEU:HD23	1:A:492:LEU:HB3	2.01	0.42
1:A:676:THR:HA	1:A:690:GLN:HG2	2.02	0.42
1:C:1118:ASP:OD1	1:C:1118:ASP:N	2.38	0.42
1:A:881:THR:HG23	1:A:882:ILE:HD13	2.01	0.42
1:B:722:VAL:HG12	1:B:930:ALA:HB1	2.01	0.42
1:C:188:ASN:OD1	1:C:207:HIS:NE2	2.51	0.42
1:A:296:LEU:HB3	1:A:608:VAL:HG21	2.02	0.42
1:B:722:VAL:HG12	1:B:930:ALA:HB1	2.01	0.42
1:B:877:LEU:O	1:B:881:THR:HG23	2.19	0.42
1:B:108:THR:OG1	1:B:234:ASN:O	2.38	0.42
1:B:336:CYS:HA	1:B:337:PRO:HD3	1.90	0.42
1:B:741:TYR:HD1	1:B:1004:LEU:HD11	1.84	0.42
1:C:178:ASP:H	1:C:207:HIS:HE1	1.68	0.42
1:B:330:PRO:HD3	1:B:579:PRO:HB2	2.02	0.42
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.43	0.42
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.26	0.42
1:A:881:THR:HG23	1:A:882:ILE:HD13	2.01	0.42
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.19	0.42
1:C:200:TYR:CE1	1:C:230:PRO:HB3	2.54	0.42
1:C:568:ASP:OD2	1:C:569:ILE:N	2.47	0.42
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.55	0.42
1:B:394:ASN:HB2	1:B:516:GLU:HB2	2.00	0.42
1:C:347:PHE:HB2	1:C:401:VAL:HG23	2.01	0.42
1:C:731:MET:HG3	1:C:955:ASN:HD21	1.85	0.42
1:B:1103:PHE:CD2	1:B:1112:PRO:HB3	2.54	0.42
1:C:357:ARG:NE	1:C:394:ASN:OD1	2.53	0.42
1:C:452:LEU:HD13	1:C:492:LEU:HD21	2.01	0.42
1:A:105:ILE:HB	1:A:241:LEU:HD21	2.00	0.42
1:A:443:SER:HB3	1:A:499:PRO:HD3	2.01	0.42
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.85	0.42
1:C:975:SER:O	1:C:1000:ARG:NH2	2.52	0.42
1:C:1080:ALA:HA	1:C:1095:PHE:HE2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.22	0.42
1:A:205:SER:HB3	1:A:226:LEU:HB2	2.02	0.42
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	2.00	0.42
1:C:106:PHE:HB3	1:C:235:ILE:HD13	2.02	0.42
1:B:783:ALA:HB2	1:B:873:TYR:CE2	2.53	0.42
1:B:55:PHE:HB2	1:B:273:ARG:HB2	2.02	0.42
1:B:1091:ARG:NH1	1:B:1120:THR:O	2.51	0.42
1:C:714:ILE:HD13	1:C:714:ILE:HA	1.86	0.42
1:C:989:ALA:O	1:C:993:ILE:HG12	2.20	0.42
1:C:1002:GLN:O	1:C:1005:GLN:NE2	2.53	0.42
1:A:707:TYR:HB3	1:B:792:PRO:HG3	2.00	0.42
1:B:42:VAL:HG11	1:B:44:ARG:NH2	2.34	0.42
1:C:898:PHE:HA	1:C:901:GLN:HB2	2.01	0.42
1:B:733:LYS:HE3	1:B:771:ALA:HB1	2.01	0.42
1:C:474:GLN:HG3	1:C:479:PRO:HA	2.02	0.42
1:A:957:GLN:O	1:A:961:THR:HG23	2.20	0.42
1:B:1040:VAL:HG21	1:C:1035:GLY:HA3	2.02	0.42
1:B:182:LYS:HD3	1:B:187:LYS:HD2	2.01	0.42
1:B:303:LEU:HD11	1:B:313:TYR:CD2	2.54	0.42
1:B:777:ASN:O	1:B:781:VAL:HG12	2.19	0.42
1:A:813:SER:OG	1:A:868:GLU:OE2	2.27	0.42
1:C:1119:ASN:OD1	1:C:1119:ASN:N	2.50	0.42
1:C:994:ASP:O	1:C:998:THR:HG23	2.19	0.42
1:B:809:PRO:HA	1:B:814:LYS:HE3	2.01	0.42
1:C:870:ILE:O	1:C:874:THR:HG23	2.19	0.42
1:B:901:GLN:HE21	1:B:905:ARG:NE	2.15	0.42
1:B:934:ILE:HA	1:B:934:ILE:HD12	1.69	0.42
1:A:393:THR:HA	1:A:522:ALA:HA	2.01	0.42
1:B:120:VAL:HG12	1:B:241:LEU:HD11	2.02	0.42
1:B:193:VAL:HG13	1:B:270:LEU:HD11	2.00	0.42
1:B:733:LYS:NZ	1:B:863:PRO:HA	2.34	0.42
1:C:276:LEU:HD12	1:C:301:CYS:HA	2.02	0.42
1:A:296:LEU:HB2	1:A:608:VAL:HG21	2.00	0.42
1:A:1054:GLN:HB2	1:A:1061:VAL:HG22	2.01	0.42
1:A:323:THR:HG1	1:A:537:LYS:HZ3	1.65	0.42
1:A:726:ILE:HD13	1:A:1061:VAL:HG12	2.01	0.42
1:A:897:PRO:HG2	1:A:900:MET:HG2	2.02	0.42
1:B:334:ASN:HD21	1:B:358:ILE:HD12	1.85	0.42
1:B:908:GLY:C	1:B:1038:LYS:HZ3	2.23	0.42
1:B:291:CYS:O	1:B:297:SER:OG	2.38	0.42
1:B:784:GLN:HA	1:B:784:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:992:GLN:HA	1:C:995:ARG:HG2	2.02	0.42
1:A:141:LEU:HD21	1:A:154:GLU:HG2	2.02	0.42
1:A:418:ILE:O	1:A:422:ASN:HB2	2.19	0.42
1:A:1014:ARG:O	1:A:1018:ILE:HG12	2.20	0.42
1:A:1118:ASP:OD2	1:A:1118:ASP:N	2.40	0.42
1:B:814:LYS:HE2	1:B:814:LYS:HB2	1.92	0.42
1:B:193:VAL:HG13	1:B:270:LEU:HD11	2.02	0.42
1:B:91:TYR:HD1	1:B:193:VAL:HG22	1.85	0.42
1:C:1080:ALA:HA	1:C:1095:PHE:HE2	1.83	0.42
1:B:869:MET:HB2	1:B:869:MET:HE2	1.83	0.42
1:B:1039:ARG:NE	1:C:1031:GLU:OE2	2.47	0.42
1:C:676:THR:HA	1:C:690:GLN:HG2	2.01	0.42
1:A:1013:ILE:HG21	1:B:1012:LEU:HG	2.01	0.42
1:A:1039:ARG:NH2	1:B:1031:GLU:OE2	2.45	0.42
1:C:710:ASN:OD1	1:C:710:ASN:N	2.42	0.42
1:C:185:ASN:ND2	1:C:211:ASN:OD1	2.51	0.42
1:C:909:ILE:HA	1:C:1038:LYS:HE3	2.02	0.42
1:C:1080:ALA:HA	1:C:1095:PHE:HE2	1.84	0.42
1:C:717:ASN:OD1	1:C:718:PHE:N	2.49	0.42
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.42	0.42
1:B:53:ASP:OD2	1:B:195:LYS:NZ	2.50	0.42
1:B:280:ASN:OD1	1:B:284:THR:N	2.53	0.42
1:B:591:SER:HB3	1:B:615:VAL:HG23	2.02	0.42
1:A:731:MET:HB3	1:A:774:GLN:HE21	1.85	0.42
1:C:37:TYR:OH	1:C:195:LYS:NZ	2.47	0.42
1:C:717:ASN:OD1	1:C:718:PHE:N	2.49	0.42
1:A:699:LEU:HB2	1:B:788:ILE:HD11	2.02	0.42
1:A:897:PRO:HG2	1:A:900:MET:HG2	2.01	0.42
1:A:914:ASN:ND2	1:C:1089:PHE:HD2	2.17	0.42
1:B:292:ALA:HA	1:B:298:GLU:OE1	2.20	0.42
1:C:1005:GLN:O	1:C:1009:THR:HG23	2.20	0.42
1:A:190:ARG:NH1	1:A:207:HIS:HB2	2.33	0.42
1:A:765:ARG:HD3	1:C:957:GLN:NE2	2.35	0.42
1:A:957:GLN:O	1:A:961:THR:HG23	2.20	0.42
1:C:107:GLY:H	1:C:235:ILE:HG23	1.85	0.42
1:C:195:LYS:HE3	1:C:202:LYS:HE2	2.01	0.42
1:C:758:SER:O	1:C:761:THR:OG1	2.38	0.42
1:A:1086:LYS:HA	1:A:1125:ASN:HA	2.02	0.42
1:B:378:LYS:HE3	1:B:407:VAL:HG13	2.02	0.42
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.83	0.42
1:C:990:GLU:HA	1:C:993:ILE:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:699:LEU:HD11	1:B:869:MET:HB3	2.01	0.42
1:B:104:TRP:HB2	1:B:106:PHE:CE2	2.55	0.42
1:C:58:PHE:HB2	1:C:293:LEU:HD22	2.01	0.42
1:C:1028:LYS:O	1:C:1032:CYS:HB2	2.20	0.42
1:A:564:GLN:HA	1:A:577:ARG:HD2	2.02	0.42
1:A:667:GLY:HA2	1:B:864:LEU:HA	2.01	0.42
1:C:85:PRO:HG2	1:C:269:TYR:HE2	1.85	0.42
1:A:80:ALA:C	1:A:81:ASN:HD22	2.22	0.42
1:A:287:ASP:OD2	1:A:288:ALA:N	2.52	0.42
1:A:1006:THR:HG22	1:B:1005:GLN:NE2	2.34	0.42
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.85	0.42
1:B:954:GLN:NE2	1:B:1014:ARG:HH11	2.18	0.42
1:C:714:ILE:HD13	1:C:714:ILE:HA	1.87	0.42
1:A:543:PHE:O	1:A:545:GLY:N	2.49	0.42
1:A:55:PHE:O	1:A:271:GLN:N	2.38	0.42
1:A:985:ASP:O	1:A:989:ALA:HB2	2.20	0.42
1:A:1141:LEU:HD22	1:B:1141:LEU:HD22	2.02	0.42
1:C:56:LEU:HD12	1:C:57:PRO:HD2	2.01	0.42
1:C:1102:TRP:HB2	1:C:1135:ASN:HD22	1.84	0.42
1:B:563:GLN:O	1:B:577:ARG:NH1	2.49	0.42
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.85	0.42
1:B:361:CYS:H	1:B:522:ALA:HB1	1.85	0.42
1:C:347:PHE:CG	1:C:399:SER:HB3	2.55	0.42
1:A:1116:THR:HG22	1:A:1138:TYR:HD2	1.84	0.42
1:B:725:GLU:OE1	1:B:1064:HIS:NE2	2.53	0.42
1:C:189:LEU:HD22	1:C:191:GLU:HG3	2.01	0.42
1:A:874:THR:O	1:A:878:LEU:HD22	2.20	0.42
1:C:708:SER:HB3	1:C:711:SER:HB3	2.02	0.42
1:A:293:LEU:HD12	1:A:294:ASP:HB2	2.00	0.42
1:B:864:LEU:HG	1:B:865:LEU:HD22	2.02	0.42
1:C:201:PHE:HB3	1:C:229:LEU:HB2	2.02	0.42
1:B:408:ARG:HE	1:B:408:ARG:HB3	1.55	0.42
1:C:289:VAL:HG11	1:C:300:LYS:HD2	2.02	0.42
1:A:303:LEU:HD21	1:A:313:TYR:CD2	2.55	0.42
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.54	0.42
1:B:708:SER:OG	1:B:710:ASN:OD1	2.37	0.42
1:C:33:THR:OG1	1:C:219:GLY:O	2.25	0.42
1:C:1110:TYR:CZ	1:C:1112:PRO:HG3	2.55	0.42
1:A:741:TYR:HD1	1:A:742:ILE:HD13	1.85	0.42
1:B:909:ILE:HA	1:B:1038:LYS:HZ1	1.84	0.42
1:B:948:LEU:HA	1:B:951:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:289:VAL:HG11	1:A:300:LYS:HD2	2.01	0.42
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.41	0.42
1:B:748:GLU:OE1	1:B:748:GLU:N	2.51	0.42
1:A:357:ARG:HG3	1:A:396:TYR:HE1	1.84	0.42
1:B:1005:GLN:HA	1:B:1008:VAL:HG12	2.02	0.42
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	2.01	0.42
1:B:425:LEU:HD21	1:B:512:VAL:HG11	2.02	0.42
1:A:107:GLY:H	1:A:235:ILE:HG23	1.84	0.42
1:A:600:PRO:HD3	1:A:692:ILE:HD11	2.00	0.42
1:A:774:GLN:HE22	1:A:1018:ILE:HG21	1.85	0.42
1:B:424:LYS:HD2	1:B:463:PRO:HG3	2.01	0.42
1:B:1110:TYR:CZ	1:B:1112:PRO:HG3	2.55	0.42
1:A:295:PRO:HG2	1:A:608:VAL:HG11	2.02	0.42
1:A:881:THR:HG23	1:A:882:ILE:HD13	2.02	0.42
1:C:273:ARG:HH21	1:C:292:ALA:HB3	1.84	0.42
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.19	0.41
1:B:731:MET:HG2	1:B:774:GLN:HE21	1.84	0.41
1:A:914:ASN:OD1	1:C:1123:SER:OG	2.27	0.41
1:B:173:GLN:HG2	1:B:174:PRO:HD2	2.02	0.41
1:B:965:GLN:O	1:B:968:SER:OG	2.38	0.41
1:B:971:GLY:HA3	1:B:995:ARG:HH12	1.85	0.41
1:A:783:ALA:HB2	1:A:873:TYR:CE2	2.55	0.41
1:B:360:ASN:OD1	1:B:523:THR:OG1	2.27	0.41
1:B:805:ILE:HD12	1:B:878:LEU:HG	2.02	0.41
1:A:48:LEU:HB3	1:A:276:LEU:HD11	2.02	0.41
1:A:81:ASN:O	1:A:239:GLN:NE2	2.51	0.41
1:A:1013:ILE:HG22	1:C:1013:ILE:HD12	2.01	0.41
1:A:981:LEU:HD21	1:A:993:ILE:HD11	2.01	0.41
1:C:1004:LEU:O	1:C:1008:VAL:HG13	2.19	0.41
1:B:1024:LEU:HD11	1:B:1028:LYS:HE3	2.02	0.41
1:C:737:ASP:OD1	1:C:737:ASP:N	2.38	0.41
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.44	0.41
1:A:969:ASN:ND2	1:B:755:GLN:HG2	2.27	0.41
1:A:543:PHE:O	1:A:545:GLY:N	2.49	0.41
1:A:1052:PHE:HB2	1:A:1063:LEU:HB2	2.02	0.41
1:B:336:CYS:HB2	1:B:363:ALA:HA	2.01	0.41
1:B:729:VAL:HG12	1:B:1059:GLY:HA2	2.02	0.41
1:B:361:CYS:HB3	1:B:524:VAL:O	2.20	0.41
1:B:458:LYS:HZ3	1:B:474:GLN:H	1.68	0.41
1:B:484:LYS:HD2	1:B:490:PHE:HB2	2.02	0.41
1:A:51:THR:OG1	1:A:52:GLN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:986:PRO:O	1:C:990:GLU:HG3	2.20	0.41
1:B:105:ILE:HB	1:B:239:GLN:HB2	2.02	0.41
1:C:1019:ARG:O	1:C:1023:ASN:ND2	2.35	0.41
1:B:332:ILE:HA	1:B:524:VAL:HG22	2.02	0.41
1:B:877:LEU:O	1:B:881:THR:HG23	2.20	0.41
1:A:92:PHE:CE1	1:A:94:SER:HB2	2.55	0.41
1:A:756:TYR:HB3	1:A:759:PHE:HE2	1.85	0.41
1:A:1135:ASN:OD1	1:A:1136:THR:N	2.43	0.41
1:A:383:SER:HB2	1:A:386:LYS:HE2	2.01	0.41
1:A:731:MET:HB3	1:A:774:GLN:NE2	2.35	0.41
1:A:741:TYR:HE2	1:A:1004:LEU:HD13	1.85	0.41
1:B:1145:LEU:HB3	1:C:1148:PHE:HE2	1.85	0.41
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.83	0.41
1:A:767:LEU:HA	1:A:770:ILE:HD12	2.02	0.41
1:B:663:ASP:N	1:B:671:CYS:SG	2.92	0.41
1:C:1135:ASN:OD1	1:C:1136:THR:N	2.43	0.41
1:A:312:ILE:HD13	1:A:598:ILE:HD11	2.01	0.41
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.84	0.41
1:A:741:TYR:CD1	1:A:1004:LEU:HD22	2.54	0.41
1:B:29:THR:HB	1:B:64:TRP:HB2	2.01	0.41
1:B:92:PHE:HE1	1:B:265:TYR:HB2	1.85	0.41
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.83	0.41
1:A:731:MET:HG3	1:A:955:ASN:ND2	2.35	0.41
1:C:902:MET:HB2	1:C:916:LEU:HD11	2.01	0.41
1:B:14:GLN:HA	1:B:138:ASP:HB3	2.02	0.41
1:B:993:ILE:O	1:B:997:ILE:HG12	2.20	0.41
1:A:870:ILE:O	1:A:874:THR:HG23	2.20	0.41
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.19	0.41
1:B:193:VAL:HB	1:B:204:TYR:HB2	2.02	0.41
1:B:206:LYS:HD2	1:B:207:HIS:H	1.84	0.41
1:B:955:ASN:O	1:B:959:LEU:HD22	2.19	0.41
1:C:422:ASN:HD21	1:C:454:ARG:HB3	1.85	0.41
1:C:598:ILE:HB	1:C:609:ALA:HB3	2.02	0.41
1:B:92:PHE:HB3	1:B:192:PHE:HB2	2.02	0.41
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	2.01	0.41
1:C:957:GLN:HE21	1:C:957:GLN:CA	2.31	0.41
1:B:1051:SER:HB3	1:B:1064:HIS:HD1	1.86	0.41
1:A:225:PRO:HB2	1:C:562:PHE:CZ	2.55	0.41
1:B:1110:TYR:CZ	1:B:1112:PRO:HG3	2.55	0.41
1:C:91:TYR:HD1	1:C:193:VAL:HG12	1.85	0.41
1:C:777:ASN:O	1:C:781:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1002:GLN:HA	1:C:1005:GLN:HE21	1.84	0.41
1:A:314:GLN:NE2	1:A:594:GLY:HA3	2.35	0.41
1:A:598:ILE:HD13	1:A:598:ILE:HA	1.88	0.41
1:A:53:ASP:OD1	1:A:54:LEU:N	2.53	0.41
1:A:560:LEU:HB2	1:A:563:GLN:HG3	2.01	0.41
1:A:985:ASP:O	1:A:989:ALA:CB	2.68	0.41
1:B:206:LYS:HD2	1:B:207:HIS:N	2.35	0.41
1:B:1129:VAL:HG22	1:C:917:TYR:HB3	2.01	0.41
1:A:775:ASP:O	1:A:778:THR:OG1	2.29	0.41
1:A:1102:TRP:HB2	1:A:1135:ASN:HD22	1.85	0.41
1:B:53:ASP:OD1	1:B:54:LEU:N	2.53	0.41
1:C:1106:GLN:OE1	1:C:1106:GLN:N	2.52	0.41
1:B:878:LEU:O	1:B:882:ILE:HG12	2.19	0.41
1:C:316:SER:OG	1:C:317:ASN:N	2.53	0.41
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.85	0.41
1:C:978:ASN:O	1:C:982:SER:OG	2.26	0.41
1:A:142:GLY:HA3	1:A:156:GLU:HB2	2.01	0.41
1:B:319:ARG:NE	1:C:740:MET:SD	2.92	0.41
1:C:906:PHE:HB3	1:C:911:VAL:HB	2.02	0.41
1:A:457:ARG:NH2	1:A:467:ASP:OD2	2.50	0.41
1:B:1110:TYR:CZ	1:B:1112:PRO:HG3	2.55	0.41
1:A:326:ILE:HD11	1:A:534:VAL:HB	2.02	0.41
1:A:726:ILE:HG22	1:A:1061:VAL:HG12	2.02	0.41
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.02	0.41
1:A:761:THR:O	1:A:765:ARG:HG2	2.20	0.41
1:B:659:SER:HB3	1:B:698:SER:HB2	2.02	0.41
1:C:53:ASP:OD2	1:C:195:LYS:NZ	2.53	0.41
1:C:770:ILE:HD13	1:C:770:ILE:HG21	1.84	0.41
1:A:89:GLY:HA3	1:A:270:LEU:HD12	2.00	0.41
1:A:212:LEU:HD13	1:A:217:PRO:HD3	2.00	0.41
1:A:347:PHE:HB2	1:A:401:VAL:HG23	2.01	0.41
1:A:666:ILE:HG12	1:A:671:CYS:HA	2.02	0.41
1:B:276:LEU:HD12	1:B:301:CYS:HA	2.01	0.41
1:B:726:ILE:HD12	1:B:1061:VAL:HG22	2.01	0.41
1:B:743:CYS:HB3	1:B:977:LEU:HD12	2.03	0.41
1:C:130:VAL:HB	1:C:168:PHE:HB3	2.02	0.41
1:C:767:LEU:HA	1:C:770:ILE:HG12	2.02	0.41
1:C:992:GLN:OE1	1:C:992:GLN:N	2.38	0.41
1:A:825:LYS:NZ	1:A:938:LEU:O	2.41	0.41
1:C:599:THR:HG22	1:C:608:VAL:HA	2.02	0.41
1:C:963:VAL:HA	1:C:966:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:ILE:HD12	1:C:217:PRO:HG3	2.01	0.41
1:C:805:ILE:HD12	1:C:878:LEU:HD11	2.02	0.41
1:B:1033:VAL:HG22	1:B:1051:SER:HB2	2.01	0.41
1:B:104:TRP:HB2	1:B:106:PHE:CE1	2.55	0.41
1:C:316:SER:OG	1:C:317:ASN:N	2.54	0.41
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.84	0.41
1:A:320:VAL:HG13	1:A:590:CYS:HB3	2.03	0.41
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.01	0.41
1:A:969:ASN:OD1	1:A:969:ASN:N	2.53	0.41
1:A:978:ASN:O	1:A:982:SER:OG	2.36	0.41
1:C:117:LEU:HB2	1:C:233:ILE:HD11	2.02	0.41
1:A:418:ILE:O	1:A:422:ASN:HB2	2.19	0.41
1:B:457:ARG:NE	1:B:459:SER:O	2.53	0.41
1:B:970:PHE:O	1:B:995:ARG:NH2	2.53	0.41
1:C:865:LEU:HD13	1:C:869:MET:HE2	2.02	0.41
1:A:33:THR:OG1	1:A:219:GLY:O	2.31	0.41
1:A:83:VAL:HG11	1:A:237:ARG:HD2	2.02	0.41
1:C:141:LEU:HB2	1:C:246:ILE:HD13	2.02	0.41
1:C:344:ALA:O	1:C:509:ARG:NH1	2.53	0.41
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.20	0.41
1:C:1014:ARG:HE	1:C:1014:ARG:HB2	1.72	0.41
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.41	0.41
1:C:53:ASP:OD1	1:C:195:LYS:NZ	2.47	0.41
1:A:857:GLY:HA2	1:C:592:PHE:HZ	1.85	0.41
1:A:1038:LYS:HE2	1:A:1038:LYS:HB2	1.83	0.41
1:B:777:ASN:O	1:B:781:VAL:HG12	2.21	0.41
1:C:53:ASP:HB3	1:C:55:PHE:HE2	1.85	0.41
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.85	0.41
1:A:776:LYS:NZ	1:A:780:GLU:OE1	2.47	0.41
1:B:741:TYR:CE1	1:B:1004:LEU:HB2	2.54	0.41
1:C:726:ILE:HD11	1:C:948:LEU:HD11	2.02	0.41
1:C:874:THR:HG21	1:C:1055:SER:HB3	2.01	0.41
1:A:344:ALA:HB3	1:A:347:PHE:HE1	1.85	0.41
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.37	0.41
1:B:44:ARG:HD2	1:B:279:TYR:HE2	1.86	0.41
1:B:317:ASN:HD22	1:B:317:ASN:HA	1.66	0.41
1:C:644:GLN:NE2	1:C:645:THR:O	2.45	0.41
1:C:870:ILE:O	1:C:874:THR:HG23	2.20	0.41
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.26	0.41
1:A:102:ARG:NH1	1:A:121:ASN:O	2.51	0.41
1:A:756:TYR:HE2	1:A:997:ILE:HD12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:914:ASN:N	1:B:914:ASN:OD1	2.53	0.41
1:B:1009:THR:O	1:B:1013:ILE:HG13	2.19	0.41
1:C:901:GLN:HE22	1:C:905:ARG:HH21	1.68	0.41
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.20	0.41
1:B:710:ASN:OD1	1:B:710:ASN:N	2.46	0.41
1:B:762:GLN:HA	1:B:765:ARG:NH1	2.36	0.41
1:B:878:LEU:O	1:B:882:ILE:HG12	2.20	0.41
1:A:790:LYS:HE3	1:C:702:GLU:HG3	2.01	0.41
1:A:931:ILE:HA	1:A:934:ILE:HG22	2.02	0.41
1:C:287:ASP:HB3	1:C:306:PHE:HE1	1.84	0.41
1:C:302:THR:HG21	1:C:315:THR:HA	2.02	0.41
1:B:332:ILE:HG12	1:B:524:VAL:HG13	2.03	0.41
1:A:1023:ASN:O	1:A:1027:THR:OG1	2.31	0.41
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.34	0.41
1:B:206:LYS:HB2	1:B:223:LEU:HA	2.02	0.41
1:C:89:GLY:HA3	1:C:270:LEU:HD12	2.01	0.41
1:A:1050:MET:HG2	1:A:1065:VAL:HB	2.02	0.41
1:A:312:ILE:HD11	1:A:596:SER:HB3	2.03	0.41
1:A:902:MET:HB2	1:A:916:LEU:HD11	2.02	0.41
1:C:906:PHE:HB3	1:C:911:VAL:HB	2.02	0.41
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	2.01	0.41
1:B:37:TYR:OH	1:B:53:ASP:OD1	2.38	0.41
1:B:357:ARG:HE	1:B:394:ASN:ND2	2.18	0.41
1:B:809:PRO:HA	1:B:814:LYS:HE3	2.03	0.41
1:B:993:ILE:O	1:B:997:ILE:HG12	2.20	0.41
1:C:426:PRO:HG2	1:C:429:PHE:HB2	2.03	0.41
1:A:578:ASP:OD2	1:A:581:THR:OG1	2.32	0.41
1:B:332:ILE:HG12	1:B:524:VAL:HG13	2.01	0.41
1:B:1051:SER:HG	1:B:1064:HIS:CE1	2.33	0.41
1:B:1128:VAL:H	1:B:1128:VAL:HG12	1.62	0.41
1:A:224:GLU:HA	1:A:225:PRO:HD3	1.97	0.41
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.85	0.41
1:C:1024:LEU:HD11	1:C:1028:LYS:HE2	2.02	0.41
1:C:1081:ILE:HG12	1:C:1095:PHE:CE2	2.56	0.41
1:A:543:PHE:O	1:A:545:GLY:N	2.48	0.41
1:B:456:PHE:CE2	1:B:475:ALA:HA	2.56	0.41
1:B:985:ASP:O	1:B:989:ALA:HB2	2.21	0.41
1:B:1084:ASP:OD1	1:B:1086:LYS:HG2	2.21	0.41
1:C:104:TRP:CD1	1:C:240:THR:HA	2.55	0.41
1:C:537:LYS:HG3	1:C:539:VAL:HG13	2.02	0.41
1:C:947:LYS:HE2	1:C:947:LYS:HB2	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:365:TYR:HD1	1:A:368:LEU:HD12	1.85	0.41
1:C:869:MET:HB2	1:C:869:MET:HE2	1.78	0.41
1:B:376:THR:HB	1:B:435:ALA:HB3	2.03	0.41
1:B:1103:PHE:CD2	1:B:1112:PRO:HB3	2.54	0.41
1:C:370:ASN:HD22	1:C:384:PRO:HD2	1.86	0.41
1:A:295:PRO:O	1:A:299:THR:HG23	2.21	0.41
1:C:787:GLN:OE1	1:C:787:GLN:N	2.54	0.41
1:A:766:ALA:O	1:A:770:ILE:HG13	2.20	0.41
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	2.03	0.41
1:B:1107:ARG:NH1	1:C:904:TYR:HB2	2.35	0.41
1:A:203:ILE:HD13	1:A:227:VAL:HG13	2.01	0.41
1:B:38:TYR:HE2	1:B:224:GLU:HG2	1.86	0.41
1:C:720:ILE:HD11	1:C:923:ILE:HD12	2.01	0.41
1:B:35:GLY:HA3	1:B:56:LEU:HB3	2.03	0.41
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.56	0.41
1:A:1129:VAL:HG13	1:A:1132:ILE:HB	2.02	0.41
1:B:323:THR:OG1	1:B:324:GLU:OE2	2.34	0.41
1:B:361:CYS:HB3	1:B:524:VAL:O	2.20	0.41
1:C:818:ILE:O	1:C:822:LEU:HG	2.20	0.41
1:A:365:TYR:O	1:A:369:TYR:HB2	2.20	0.41
1:A:699:LEU:HB2	1:B:788:ILE:HD11	2.02	0.41
1:B:666:ILE:HD11	1:B:672:ALA:HB2	2.03	0.41
1:C:328:ARG:NH2	1:C:533:LEU:H	2.18	0.41
1:B:108:THR:OG1	1:B:234:ASN:O	2.38	0.41
1:B:280:ASN:OD1	1:B:284:THR:N	2.54	0.41
1:C:200:TYR:CE1	1:C:230:PRO:HB3	2.54	0.41
1:A:344:ALA:HB3	1:A:347:PHE:HE1	1.85	0.41
1:A:569:ILE:H	1:A:569:ILE:HG13	1.72	0.41
1:B:783:ALA:HB2	1:B:873:TYR:CE2	2.55	0.41
1:B:1002:GLN:O	1:B:1006:THR:HG23	2.21	0.41
1:A:581:THR:OG1	1:A:583:GLU:OE2	2.38	0.41
1:B:318:PHE:N	1:B:593:GLY:O	2.53	0.41
1:C:931:ILE:HA	1:C:934:ILE:HG22	2.01	0.41
1:A:204:TYR:HD2	1:A:225:PRO:HA	1.85	0.41
1:A:589:PRO:HG2	1:B:855:PHE:O	2.21	0.41
1:C:873:TYR:O	1:C:877:LEU:HG	2.20	0.41
1:C:1025:ALA:O	1:C:1029:MET:HB2	2.21	0.41
1:A:1116:THR:HG22	1:A:1138:TYR:HD2	1.85	0.41
1:A:1129:VAL:HG13	1:A:1132:ILE:HB	2.02	0.41
1:B:26:PRO:HA	1:B:65:PHE:HE1	1.86	0.41
1:C:108:THR:HA	1:C:236:THR:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:52:GLN:NE2	1:B:273:ARG:O	2.54	0.41
1:C:103:GLY:HA3	1:C:120:VAL:HA	2.01	0.41
1:C:715:PRO:HA	1:C:1072:GLU:HA	2.02	0.41
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.21	0.41
1:C:990:GLU:HA	1:C:993:ILE:HG22	2.03	0.41
1:A:598:ILE:HA	1:A:598:ILE:HD13	1.85	0.41
1:B:48:LEU:HB3	1:B:276:LEU:HD21	2.02	0.41
1:B:86:PHE:HB2	1:B:238:PHE:HD1	1.84	0.41
1:B:484:LYS:HD2	1:B:490:PHE:HB2	2.03	0.41
1:C:189:LEU:HD12	1:C:189:LEU:HA	1.93	0.41
1:A:212:LEU:HD13	1:A:217:PRO:HD3	2.02	0.41
1:A:742:ILE:O	1:A:1000:ARG:NH1	2.53	0.41
1:C:287:ASP:HB3	1:C:306:PHE:HE1	1.86	0.41
1:C:699:LEU:HD23	1:C:699:LEU:HA	1.91	0.41
1:A:1005:GLN:HA	1:A:1008:VAL:HG12	2.03	0.41
1:B:182:LYS:HD3	1:B:187:LYS:HD2	2.03	0.41
1:B:901:GLN:OE1	1:B:905:ARG:NE	2.54	0.41
1:B:1084:ASP:OD1	1:B:1086:LYS:HG2	2.21	0.41
1:A:96:GLU:OE1	1:A:99:ASN:ND2	2.39	0.41
1:A:205:SER:N	1:A:224:GLU:O	2.39	0.41
1:B:296:LEU:HG	1:B:300:LYS:HE3	2.03	0.41
1:B:756:TYR:HB3	1:B:759:PHE:HE2	1.85	0.41
1:C:53:ASP:OD1	1:C:54:LEU:N	2.54	0.41
1:A:813:SER:OG	1:A:868:GLU:OE2	2.30	0.41
1:B:774:GLN:HA	1:B:777:ASN:OD1	2.20	0.41
1:C:999:GLY:O	1:C:1002:GLN:HG3	2.20	0.41
1:A:326:ILE:HD12	1:A:539:VAL:HG21	2.03	0.41
1:B:430:THR:HG22	1:C:983:ARG:CZ	2.50	0.41
1:B:598:ILE:HB	1:B:609:ALA:HB3	2.01	0.41
1:B:874:THR:HG21	1:B:1055:SER:HB2	2.02	0.41
1:B:1086:LYS:HA	1:B:1125:ASN:HA	2.02	0.41
1:B:567:ARG:HH12	1:C:42:VAL:HG21	1.86	0.41
1:C:351:TYR:HD2	1:C:468:ILE:HG22	1.86	0.41
1:C:778:THR:O	1:C:782:PHE:HB2	2.20	0.41
1:A:727:LEU:HD12	1:A:1025:ALA:HB2	2.02	0.41
1:A:737:ASP:OD1	1:C:317:ASN:ND2	2.52	0.41
1:B:108:THR:OG1	1:B:234:ASN:O	2.39	0.41
1:B:564:GLN:HA	1:B:577:ARG:HD2	2.03	0.41
1:B:113:LYS:HG3	1:B:114:THR:HG23	2.03	0.41
1:B:189:LEU:HD12	1:B:189:LEU:HA	1.83	0.41
1:B:295:PRO:HG2	1:B:608:VAL:HG11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.85	0.41
1:A:141:LEU:HD13	1:A:154:GLU:HG3	2.03	0.41
1:B:68:ILE:HG12	1:B:78:ARG:HB2	2.02	0.41
1:B:877:LEU:O	1:B:881:THR:HG23	2.21	0.41
1:C:878:LEU:O	1:C:882:ILE:HG22	2.21	0.41
1:B:159:VAL:HG12	1:B:160:TYR:CD2	2.56	0.41
1:C:85:PRO:HG2	1:C:269:TYR:HE1	1.85	0.41
1:C:819:GLU:HA	1:C:822:LEU:HG	2.02	0.41
1:C:131:CYS:HB2	1:C:133:PHE:CE1	2.56	0.41
1:C:1004:LEU:O	1:C:1008:VAL:HG13	2.21	0.41
1:A:858:LEU:HD13	1:A:959:LEU:HD12	2.01	0.41
1:B:330:PRO:HD3	1:B:579:PRO:HB2	2.02	0.41
1:C:454:ARG:NH2	1:C:469:SER:O	2.51	0.41
1:C:777:ASN:HB3	1:C:1022:ALA:HB1	2.02	0.41
1:A:611:LEU:HD22	1:A:666:ILE:HG23	2.02	0.41
1:B:699:LEU:HD11	1:C:869:MET:HG2	2.03	0.41
1:A:666:ILE:HD13	1:A:666:ILE:HA	1.86	0.41
1:B:396:TYR:HB2	1:B:514:SER:HB2	2.02	0.41
1:A:374:PHE:HB2	1:A:436:TRP:HB3	2.02	0.41
1:C:206:LYS:HB3	1:C:223:LEU:HD22	2.03	0.41
1:C:870:ILE:O	1:C:874:THR:HG23	2.20	0.41
1:A:1049:LEU:HB2	1:A:1065:VAL:HG12	2.02	0.41
1:B:613:GLN:H	1:B:613:GLN:HG2	1.69	0.41
1:B:874:THR:O	1:B:878:LEU:HD23	2.21	0.41
1:B:1091:ARG:NH1	1:B:1120:THR:O	2.52	0.41
1:B:882:ILE:HD12	1:B:882:ILE:HA	1.84	0.41
1:C:426:PRO:HG2	1:C:429:PHE:HB2	2.03	0.41
1:C:537:LYS:HG3	1:C:539:VAL:HG13	2.01	0.41
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.21	0.41
1:B:1103:PHE:CD2	1:B:1112:PRO:HB3	2.55	0.41
1:C:212:LEU:HD22	1:C:217:PRO:HD3	2.03	0.41
1:C:295:PRO:HG2	1:C:608:VAL:HG11	2.02	0.41
1:A:1001:LEU:O	1:A:1005:GLN:HG3	2.21	0.41
1:A:1035:GLY:HA3	1:C:1040:VAL:HG21	2.02	0.41
1:B:101:ILE:HA	1:B:246:ILE:HG21	2.02	0.41
1:C:34:ARG:HD3	1:C:34:ARG:HA	1.84	0.41
1:C:564:GLN:HG2	1:C:565:PHE:CD2	2.56	0.41
1:A:52:GLN:OE1	1:A:274:THR:OG1	2.23	0.41
1:A:870:ILE:O	1:A:874:THR:HG23	2.20	0.41
1:C:731:MET:H	1:C:774:GLN:NE2	2.19	0.41
1:A:105:ILE:HB	1:A:241:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:699:LEU:HB2	1:B:788:ILE:HD11	2.03	0.41
1:C:189:LEU:HD13	1:C:189:LEU:HA	1.89	0.41
1:A:329:PHE:HD2	1:A:528:LYS:HB3	1.85	0.41
1:C:108:THR:OG1	1:C:234:ASN:O	2.38	0.41
1:A:202:LYS:HB3	1:A:204:TYR:CE2	2.56	0.41
1:A:212:LEU:HD13	1:A:217:PRO:HD3	2.02	0.41
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.03	0.41
1:C:819:GLU:OE2	1:C:1055:SER:N	2.48	0.41
1:A:452:LEU:HD23	1:A:492:LEU:HB3	2.03	0.41
1:B:362:VAL:HG21	1:B:526:GLY:H	1.84	0.41
1:B:541:PHE:CZ	1:B:587:ILE:HD12	2.55	0.41
1:C:931:ILE:HA	1:C:934:ILE:HG22	2.02	0.41
1:C:975:SER:O	1:C:1000:ARG:NH2	2.54	0.41
1:B:289:VAL:HG11	1:B:300:LYS:HD2	2.01	0.41
1:B:1002:GLN:O	1:B:1006:THR:HG23	2.21	0.41
1:C:902:MET:HB3	1:C:916:LEU:HD21	2.02	0.41
1:A:765:ARG:HD3	1:C:957:GLN:NE2	2.35	0.41
1:B:659:SER:HB3	1:B:698:SER:HB2	2.03	0.41
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.53	0.41
1:A:212:LEU:HD22	1:A:217:PRO:HD3	2.03	0.41
1:C:271:GLN:HE22	1:C:273:ARG:NH1	2.18	0.41
1:C:273:ARG:NE	1:C:290:ASP:OD2	2.52	0.41
1:C:330:PRO:HB3	1:C:580:GLN:HA	2.02	0.41
1:A:295:PRO:HG2	1:A:608:VAL:HG11	2.02	0.41
1:A:1110:TYR:CZ	1:A:1112:PRO:HG3	2.56	0.41
1:B:35:GLY:HA3	1:B:56:LEU:HB3	2.03	0.41
1:A:212:LEU:HD13	1:A:217:PRO:HD3	2.01	0.41
1:A:328:ARG:NH1	1:A:531:THR:O	2.54	0.41
1:B:36:VAL:HG21	1:B:220:PHE:CE1	2.56	0.41
1:B:443:SER:HB3	1:B:499:PRO:HG3	2.02	0.41
1:B:726:ILE:HD12	1:B:1061:VAL:HG22	2.03	0.41
1:C:537:LYS:HG3	1:C:539:VAL:HG13	2.03	0.41
1:C:994:ASP:O	1:C:998:THR:HG23	2.20	0.41
1:C:714:ILE:HD13	1:C:714:ILE:HA	1.90	0.41
1:A:562:PHE:HZ	1:B:38:TYR:HD1	1.69	0.41
1:A:780:GLU:OE1	1:A:1019:ARG:NH2	2.53	0.41
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.56	0.41
1:B:933:LYS:HB2	1:B:933:LYS:HE2	1.88	0.41
1:C:906:PHE:CD2	1:C:916:LEU:HG	2.56	0.41
1:C:1086:LYS:HG3	1:C:1122:VAL:HG13	2.03	0.41
1:A:38:TYR:HE2	1:A:224:GLU:HG2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:901:GLN:HE21	1:B:905:ARG:NE	2.19	0.41
1:C:231:ILE:HG22	1:C:233:ILE:HG23	2.03	0.41
1:B:702:GLU:HA	1:C:788:ILE:HB	2.02	0.41
1:C:52:GLN:OE1	1:C:274:THR:OG1	2.38	0.41
1:A:598:ILE:HG23	1:A:664:ILE:HD11	2.02	0.41
1:A:888:PHE:HE1	1:A:1034:LEU:HA	1.85	0.41
1:B:48:LEU:HB3	1:B:276:LEU:HD11	2.02	0.41
1:A:1081:ILE:HG12	1:A:1095:PHE:CE2	2.56	0.41
1:C:578:ASP:OD2	1:C:581:THR:OG1	2.36	0.41
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.20	0.41
1:A:994:ASP:O	1:A:998:THR:HG23	2.21	0.41
1:B:194:PHE:HB3	1:B:201:PHE:CZ	2.56	0.41
1:B:298:GLU:HB3	1:B:315:THR:HB	2.01	0.41
1:A:41:LYS:NZ	1:C:562:PHE:O	2.31	0.41
1:C:141:LEU:HB2	1:C:246:ILE:HD13	2.02	0.41
1:C:273:ARG:HD3	1:C:273:ARG:HA	1.91	0.41
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.85	0.41
1:C:977:LEU:O	1:C:981:LEU:HG	2.21	0.41
1:B:361:CYS:HB3	1:B:524:VAL:O	2.20	0.41
1:C:31:SER:HB2	1:C:34:ARG:HB2	2.03	0.41
1:B:216:LEU:HD21	1:B:266:TYR:HE2	1.86	0.41
1:B:314:GLN:OE1	1:B:315:THR:N	2.53	0.41
1:C:802:PHE:HE1	1:C:882:ILE:HD12	1.86	0.41
1:C:1005:GLN:O	1:C:1009:THR:HG23	2.21	0.41
1:B:566:GLY:HA2	1:C:43:PHE:HB3	2.03	0.41
1:C:326:ILE:HD12	1:C:539:VAL:HG11	2.03	0.41
1:A:117:LEU:HB2	1:A:233:ILE:HD11	2.02	0.41
1:A:355:ARG:HD2	1:A:396:TYR:HB3	2.03	0.41
1:B:743:CYS:HB3	1:B:977:LEU:HD12	2.03	0.41
1:B:1107:ARG:HD2	1:C:904:TYR:OH	2.21	0.41
1:C:66:HIS:HA	1:C:264:ALA:HA	2.02	0.41
1:B:26:PRO:HA	1:B:65:PHE:HE1	1.86	0.41
1:C:334:ASN:OD1	1:C:335:LEU:N	2.44	0.41
1:C:362:VAL:HG21	1:C:524:VAL:HB	2.02	0.41
1:A:897:PRO:HD2	1:C:712:ILE:HD13	2.03	0.41
1:B:443:SER:HB3	1:B:499:PRO:HG3	2.01	0.41
1:B:702:GLU:HA	1:C:788:ILE:HB	2.01	0.41
1:B:882:ILE:HD13	1:B:898:PHE:HE2	1.86	0.41
1:C:870:ILE:O	1:C:874:THR:HG23	2.21	0.41
1:A:532:ASN:OD1	1:A:533:LEU:N	2.54	0.41
1:A:858:LEU:HD13	1:A:959:LEU:HD12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:GLN:OE1	1:B:315:THR:N	2.54	0.41
1:C:40:ASP:OD1	1:C:41:LYS:N	2.52	0.41
1:C:1008:VAL:O	1:C:1012:LEU:HD22	2.20	0.41
1:B:960:ASN:O	1:B:963:VAL:HG12	2.21	0.41
1:C:129:LYS:HG2	1:C:133:PHE:HZ	1.86	0.41
1:A:592:PHE:CZ	1:B:857:GLY:HA2	2.55	0.41
1:A:946:GLY:HA2	1:A:949:GLN:HB3	2.03	0.41
1:A:1030:SER:HA	1:A:1034:LEU:HD23	2.03	0.41
1:B:172:SER:OG	1:B:173:GLN:N	2.53	0.41
1:C:329:PHE:HD2	1:C:528:LYS:HB3	1.85	0.41
1:A:92:PHE:HE2	1:A:94:SER:HB2	1.86	0.41
1:B:104:TRP:HE3	1:B:106:PHE:HE1	1.69	0.41
1:B:738:CYS:HB2	1:B:760:CYS:HB3	1.74	0.41
1:A:318:PHE:HZ	1:A:615:VAL:HG21	1.86	0.41
1:C:365:TYR:HD1	1:C:368:LEU:HD12	1.86	0.41
1:C:774:GLN:HA	1:C:777:ASN:ND2	2.36	0.41
1:A:992:GLN:OE1	1:A:995:ARG:NH1	2.53	0.41
1:C:770:ILE:HD12	1:C:1015:ALA:HB2	2.01	0.41
1:C:742:ILE:HD11	1:C:1001:LEU:HD23	2.02	0.41
1:C:805:ILE:HD12	1:C:805:ILE:HA	1.81	0.41
1:A:913:GLN:HE21	1:C:1089:PHE:HB3	1.85	0.41
1:A:1110:TYR:CZ	1:A:1112:PRO:HG3	2.56	0.41
1:B:783:ALA:HB2	1:B:873:TYR:CE2	2.56	0.41
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.42	0.41
1:A:1010:GLN:HB3	1:A:1014:ARG:HH22	1.85	0.41
1:B:423:TYR:OH	1:B:514:SER:OG	2.36	0.41
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.41	0.41
1:C:362:VAL:HG21	1:C:524:VAL:HB	2.02	0.41
1:C:870:ILE:O	1:C:874:THR:HG23	2.21	0.41
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	2.03	0.41
1:C:1028:LYS:HE2	1:C:1028:LYS:HB2	1.86	0.41
1:B:53:ASP:HB3	1:B:55:PHE:HE2	1.86	0.41
1:C:212:LEU:HD13	1:C:217:PRO:HD3	2.03	0.41
1:A:90:VAL:HG11	1:A:238:PHE:CE2	2.56	0.41
1:B:51:THR:HG23	1:B:55:PHE:HZ	1.84	0.41
1:B:131:CYS:HB2	1:B:133:PHE:HE2	1.85	0.41
1:B:410:ILE:HG23	1:B:425:LEU:HD11	2.02	0.41
1:B:697:MET:HE1	1:C:864:LEU:HD23	2.03	0.41
1:C:599:THR:HG22	1:C:608:VAL:HA	2.02	0.41
1:C:1049:LEU:HB2	1:C:1065:VAL:HG23	2.03	0.41
1:A:357:ARG:HG3	1:A:396:TYR:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1119:ASN:OD1	1:B:1119:ASN:N	2.54	0.41
1:C:96:GLU:OE1	1:C:99:ASN:ND2	2.43	0.41
1:A:949:GLN:HA	1:A:952:VAL:HG22	2.02	0.41
1:B:374:PHE:HB2	1:B:377:PHE:CE1	2.56	0.41
1:B:490:PHE:HA	1:B:491:PRO:HD3	1.97	0.41
1:B:874:THR:O	1:B:878:LEU:HD23	2.20	0.41
1:A:825:LYS:HD2	1:A:945:LEU:HD12	2.03	0.41
1:B:96:GLU:OE1	1:B:100:ILE:N	2.54	0.41
1:B:291:CYS:O	1:B:297:SER:OG	2.37	0.41
1:B:374:PHE:HB2	1:B:377:PHE:CE1	2.56	0.41
1:B:393:THR:HG21	1:B:518:LEU:HB2	2.02	0.41
1:B:870:ILE:O	1:B:874:THR:HG23	2.21	0.41
1:C:543:PHE:HD2	1:C:576:VAL:HG11	1.86	0.41
1:C:737:ASP:OD1	1:C:740:MET:HB3	2.21	0.41
1:A:931:ILE:HA	1:A:934:ILE:HG22	2.02	0.41
1:B:278:LYS:HB2	1:B:306:PHE:CE1	2.56	0.41
1:B:1092:GLU:OE2	1:B:1107:ARG:NH1	2.54	0.41
1:C:1104:VAL:HG23	1:C:1115:ILE:HG12	2.02	0.41
1:A:534:VAL:HG11	1:A:537:LYS:HE3	2.02	0.41
1:B:131:CYS:HB2	1:B:133:PHE:HE1	1.86	0.41
1:B:870:ILE:O	1:B:874:THR:HG23	2.21	0.41
1:B:877:LEU:O	1:B:881:THR:HG23	2.21	0.41
1:C:91:TYR:OH	1:C:191:GLU:OE2	2.35	0.41
1:A:383:SER:HA	1:C:487:ASN:ND2	2.36	0.41
1:B:1005:GLN:HA	1:B:1008:VAL:HG22	2.03	0.41
1:C:422:ASN:HD21	1:C:453:TYR:HB2	1.86	0.41
1:A:598:ILE:HD13	1:A:598:ILE:HA	1.76	0.41
1:A:656:VAL:HG12	1:A:658:ASN:H	1.86	0.41
1:A:961:THR:HA	1:A:964:LYS:HE3	2.03	0.41
1:C:426:PRO:HG2	1:C:429:PHE:HB2	2.03	0.41
1:A:302:THR:HG21	1:A:315:THR:HG22	2.02	0.41
1:B:280:ASN:OD1	1:B:284:THR:N	2.54	0.41
1:C:741:TYR:CD2	1:C:1004:LEU:HD22	2.56	0.41
1:C:971:GLY:HA3	1:C:995:ARG:HE	1.86	0.41
1:A:90:VAL:HG11	1:A:238:PHE:CE2	2.56	0.41
1:B:113:LYS:HG3	1:B:114:THR:HG23	2.03	0.41
1:B:314:GLN:HE22	1:B:595:VAL:N	2.18	0.41
1:A:92:PHE:HE1	1:A:94:SER:HB2	1.86	0.41
1:B:972:ALA:HA	1:B:995:ARG:HH21	1.85	0.41
1:B:1015:ALA:HA	1:B:1018:ILE:HG22	2.03	0.41
1:C:738:CYS:O	1:C:742:ILE:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:800:PHE:HD1	1:C:927:PHE:HD1	1.68	0.41
1:C:988:GLU:OE1	1:C:988:GLU:N	2.43	0.41
1:A:57:PRO:HG3	1:A:273:ARG:HE	1.86	0.41
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.03	0.41
1:A:668:ALA:H	1:B:864:LEU:HA	1.86	0.41
1:B:1002:GLN:O	1:B:1006:THR:HG23	2.21	0.41
1:C:278:LYS:HE2	1:C:287:ASP:HB3	2.03	0.41
1:C:741:TYR:HE2	1:C:1004:LEU:HD13	1.86	0.41
1:A:18:PHE:HB2	1:A:21:ARG:HB2	2.02	0.41
1:A:201:PHE:HB2	1:A:229:LEU:O	2.21	0.41
1:B:774:GLN:HA	1:B:777:ASN:ND2	2.36	0.41
1:B:969:ASN:HB3	1:C:755:GLN:NE2	2.36	0.41
1:B:1091:ARG:NH1	1:B:1118:ASP:O	2.52	0.41
1:A:703:ASN:HB3	1:B:787:GLN:HE21	1.85	0.41
1:B:730:SER:HB3	1:B:777:ASN:HD21	1.85	0.41
1:C:278:LYS:HD3	1:C:287:ASP:HB3	2.03	0.41
1:A:308:VAL:N	1:A:602:THR:OG1	2.47	0.41
1:A:881:THR:HG23	1:A:882:ILE:HD13	2.03	0.41
1:B:614:GLY:N	1:B:647:ALA:O	2.38	0.41
1:C:742:ILE:HG21	1:C:997:ILE:HG22	2.03	0.41
1:A:278:LYS:HD3	1:A:306:PHE:HD2	1.86	0.41
1:A:905:ARG:HB3	1:A:1049:LEU:HD22	2.02	0.41
1:C:954:GLN:HG3	1:C:1014:ARG:CZ	2.51	0.41
1:B:717:ASN:OD1	1:B:718:PHE:N	2.50	0.41
1:A:994:ASP:HA	1:A:997:ILE:HG12	2.02	0.41
1:B:909:ILE:HD13	1:B:1049:LEU:HD21	2.03	0.41
1:B:968:SER:OG	1:C:755:GLN:O	2.39	0.41
1:A:950:ASP:O	1:A:954:GLN:HG2	2.21	0.41
1:A:656:VAL:HG12	1:A:658:ASN:H	1.86	0.41
1:B:954:GLN:HG3	1:B:1014:ARG:NH1	2.36	0.41
1:C:273:ARG:HD3	1:C:292:ALA:HB3	2.02	0.41
1:A:1086:LYS:HG3	1:A:1122:VAL:HG13	2.03	0.41
1:B:429:PHE:HZ	1:B:512:VAL:HB	1.85	0.41
1:B:452:LEU:HD13	1:B:492:LEU:HD11	2.03	0.41
1:B:709:ASN:ND2	1:C:796:ASP:OD2	2.47	0.41
1:B:1028:LYS:O	1:B:1032:CYS:HB2	2.21	0.41
1:B:1135:ASN:OD1	1:B:1136:THR:N	2.43	0.41
1:A:777:ASN:HA	1:A:780:GLU:OE2	2.21	0.41
1:A:202:LYS:HB3	1:A:204:TYR:CE2	2.56	0.41
1:A:344:ALA:HB3	1:A:347:PHE:HE1	1.86	0.41
1:A:571:ASP:OD1	1:B:964:LYS:NZ	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:692:ILE:HD12	1:A:692:ILE:HA	1.93	0.41
1:A:951:VAL:HA	1:A:954:GLN:HG3	2.03	0.41
1:C:870:ILE:O	1:C:874:THR:HG23	2.21	0.41
1:B:752:LEU:HD23	1:B:752:LEU:HA	1.84	0.41
1:B:761:THR:O	1:B:765:ARG:HG2	2.21	0.41
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	2.03	0.41
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.21	0.41
1:B:126:VAL:HB	1:B:172:SER:HB3	2.02	0.41
1:B:878:LEU:O	1:B:882:ILE:HG12	2.21	0.41
1:B:906:PHE:HB3	1:B:911:VAL:HB	2.03	0.41
1:C:107:GLY:H	1:C:235:ILE:HG23	1.86	0.41
1:A:293:LEU:HD12	1:A:294:ASP:HB2	2.03	0.41
1:B:190:ARG:HB3	1:B:192:PHE:CZ	2.55	0.41
1:C:117:LEU:HD13	1:C:235:ILE:HD11	2.03	0.41
1:C:750:SER:O	1:C:754:LEU:HD22	2.21	0.41
1:A:206:LYS:HB2	1:A:223:LEU:HA	2.02	0.41
1:A:756:TYR:CE2	1:A:997:ILE:HD12	2.56	0.41
1:A:212:LEU:HD13	1:A:217:PRO:HD3	2.03	0.41
1:B:719:THR:HG23	1:B:1070:ALA:HB2	2.03	0.41
1:B:1102:TRP:HB2	1:B:1135:ASN:HD22	1.86	0.41
1:A:90:VAL:HG11	1:A:238:PHE:CE1	2.56	0.41
1:A:711:SER:HB3	1:B:895:GLN:HE21	1.86	0.41
1:A:1106:GLN:OE1	1:A:1106:GLN:N	2.51	0.41
1:B:738:CYS:HB3	1:B:760:CYS:HB3	1.88	0.41
1:A:1050:MET:HG2	1:A:1065:VAL:HB	2.02	0.41
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.56	0.41
1:C:200:TYR:CE1	1:C:230:PRO:HB3	2.56	0.41
1:A:759:PHE:CD2	1:A:1001:LEU:HD11	2.56	0.41
1:B:53:ASP:OD2	1:B:54:LEU:N	2.44	0.41
1:C:560:LEU:HB2	1:C:563:GLN:HG2	2.03	0.41
1:C:759:PHE:HD2	1:C:762:GLN:HE21	1.69	0.41
1:B:661:GLU:N	1:B:661:GLU:OE1	2.54	0.41
1:B:758:SER:HB2	1:B:761:THR:OG1	2.21	0.41
1:C:774:GLN:HA	1:C:777:ASN:HD21	1.85	0.41
1:A:206:LYS:NZ	1:A:208:THR:HB	2.36	0.41
1:B:783:ALA:HB2	1:B:873:TYR:CZ	2.56	0.41
1:B:960:ASN:O	1:B:964:LYS:HG2	2.21	0.41
1:C:214:ARG:HA	1:C:214:ARG:HD2	1.92	0.41
1:B:120:VAL:HG22	1:B:241:LEU:HD11	2.03	0.41
1:B:654:GLU:N	1:B:654:GLU:OE2	2.54	0.41
1:C:391:CYS:HB3	1:C:522:ALA:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.21	0.41
1:B:666:ILE:HD11	1:B:672:ALA:HB2	2.03	0.40
1:B:826:VAL:HA	1:B:949:GLN:NE2	2.36	0.40
1:B:950:ASP:O	1:B:954:GLN:HG2	2.21	0.40
1:A:738:CYS:HB2	1:A:753:LEU:HD21	2.03	0.40
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.21	0.40
1:C:204:TYR:HD1	1:C:225:PRO:HA	1.86	0.40
1:C:311:GLY:HA2	1:C:664:ILE:HD12	2.02	0.40
1:A:592:PHE:CZ	1:B:857:GLY:HA2	2.56	0.40
1:B:380:TYR:HE1	1:B:430:THR:HA	1.86	0.40
1:B:361:CYS:H	1:B:522:ALA:HB1	1.86	0.40
1:A:55:PHE:O	1:A:271:GLN:N	2.37	0.40
1:A:1024:LEU:HD11	1:A:1028:LYS:HE2	2.02	0.40
1:B:377:PHE:CE1	1:B:379:CYS:HB2	2.56	0.40
1:A:204:TYR:HD1	1:A:225:PRO:HA	1.85	0.40
1:A:443:SER:HB3	1:A:499:PRO:HD3	2.02	0.40
1:A:755:GLN:HE22	1:C:971:GLY:HA2	1.86	0.40
1:A:1155:TYR:O	1:A:1159:HIS:ND1	2.33	0.40
1:B:392:PHE:CD2	1:B:515:PHE:HB3	2.56	0.40
1:C:614:GLY:N	1:C:647:ALA:O	2.44	0.40
1:B:93:ALA:HB3	1:B:266:TYR:HB2	2.03	0.40
1:B:741:TYR:HD2	1:B:1004:LEU:HD12	1.86	0.40
1:B:971:GLY:O	1:B:995:ARG:NH1	2.54	0.40
1:C:484:LYS:HE3	1:C:489:TYR:HA	2.03	0.40
1:C:962:LEU:HD12	1:C:962:LEU:HA	1.88	0.40
1:C:86:PHE:CE1	1:C:89:GLY:HA2	2.57	0.40
1:B:790:LYS:N	1:B:790:LYS:HD2	2.36	0.40
1:B:898:PHE:HA	1:B:901:GLN:HB3	2.03	0.40
1:B:979:ASP:HA	1:B:982:SER:HG	1.86	0.40
1:C:905:ARG:HB3	1:C:1049:LEU:HD22	2.02	0.40
1:A:733:LYS:HB2	1:A:733:LYS:HE2	1.84	0.40
1:B:971:GLY:H	1:C:755:GLN:HE21	1.67	0.40
1:A:106:PHE:HD2	1:A:235:ILE:HD13	1.86	0.40
1:A:596:SER:HB2	1:A:611:LEU:HB3	2.03	0.40
1:C:58:PHE:HD2	1:C:290:ASP:HB2	1.86	0.40
1:C:825:LYS:NZ	1:C:938:LEU:O	2.34	0.40
1:C:854:LYS:HD2	1:C:854:LYS:O	2.21	0.40
1:A:33:THR:OG1	1:A:219:GLY:O	2.26	0.40
1:A:914:ASN:OD1	1:C:1123:SER:OG	2.38	0.40
1:B:105:ILE:HG22	1:B:110:LEU:HD22	2.02	0.40
1:B:729:VAL:O	1:B:777:ASN:ND2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1102:TRP:HB2	1:B:1135:ASN:HD22	1.87	0.40
1:C:560:LEU:HB2	1:C:563:GLN:HG2	2.03	0.40
1:C:975:SER:O	1:C:1000:ARG:NH2	2.54	0.40
1:A:731:MET:HG3	1:A:955:ASN:HD21	1.86	0.40
1:B:823:PHE:HD1	1:B:1057:PRO:HD3	1.86	0.40
1:B:826:VAL:HB	1:B:1057:PRO:HG2	2.02	0.40
1:C:1114:ILE:HD12	1:C:1114:ILE:HA	1.85	0.40
1:B:442:ASP:OD1	1:B:509:ARG:NH2	2.54	0.40
1:C:201:PHE:HB3	1:C:229:LEU:HB2	2.03	0.40
1:C:791:THR:HA	1:C:792:PRO:HD3	1.96	0.40
1:A:86:PHE:HD1	1:A:90:VAL:HG13	1.86	0.40
1:A:438:SER:HB3	1:A:509:ARG:HG3	2.03	0.40
1:B:733:LYS:HB2	1:B:733:LYS:HE2	1.85	0.40
1:C:878:LEU:O	1:C:882:ILE:HG22	2.21	0.40
1:B:152:TRP:CG	1:B:179:LEU:HD12	2.56	0.40
1:B:869:MET:H	1:B:869:MET:HG2	1.68	0.40
1:B:878:LEU:HD13	1:B:878:LEU:HA	1.94	0.40
1:B:1030:SER:OG	1:B:1031:GLU:OE1	2.38	0.40
1:B:1103:PHE:CD1	1:B:1112:PRO:HB3	2.56	0.40
1:C:139:PRO:HB2	1:C:241:LEU:HD11	2.04	0.40
1:C:729:VAL:HG22	1:C:777:ASN:HD22	1.86	0.40
1:C:950:ASP:OD1	1:C:954:GLN:NE2	2.54	0.40
1:A:316:SER:OG	1:A:317:ASN:N	2.53	0.40
1:A:319:ARG:NH2	1:B:740:MET:HG2	2.37	0.40
1:A:881:THR:HG23	1:A:882:ILE:HD13	2.03	0.40
1:A:1104:VAL:HG23	1:A:1115:ILE:HG12	2.03	0.40
1:B:172:SER:OG	1:B:173:GLN:N	2.55	0.40
1:A:347:PHE:HB2	1:A:401:VAL:HG23	2.04	0.40
1:B:280:ASN:OD1	1:B:284:THR:N	2.54	0.40
1:B:594:GLY:HA3	1:B:613:GLN:HE21	1.86	0.40
1:B:761:THR:O	1:B:765:ARG:HB3	2.22	0.40
1:B:995:ARG:NH1	1:C:994:ASP:OD1	2.54	0.40
1:A:769:GLY:HA2	1:A:772:VAL:HG12	2.03	0.40
1:C:92:PHE:HE2	1:C:94:SER:HB2	1.86	0.40
1:C:426:PRO:HG2	1:C:429:PHE:HB2	2.03	0.40
1:C:1080:ALA:HA	1:C:1095:PHE:HE2	1.86	0.40
1:C:1086:LYS:HG3	1:C:1122:VAL:HG13	2.02	0.40
1:A:295:PRO:HG2	1:A:608:VAL:HG11	2.03	0.40
1:B:552:LEU:HD12	1:B:585:LEU:HD13	2.04	0.40
1:C:946:GLY:HA2	1:C:949:GLN:HB3	2.04	0.40
1:B:1128:VAL:HG22	1:C:918:GLU:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:962:LEU:HD21	1:C:1007:TYR:CG	2.57	0.40
1:B:738:CYS:HB2	1:B:763:LEU:HD11	2.02	0.40
1:B:1129:VAL:HG22	1:C:917:TYR:HB3	2.03	0.40
1:A:1104:VAL:HG23	1:A:1115:ILE:HG12	2.02	0.40
1:B:318:PHE:N	1:B:593:GLY:O	2.54	0.40
1:B:906:PHE:HA	1:B:909:ILE:HG12	2.02	0.40
1:C:1086:LYS:HG3	1:C:1122:VAL:HG13	2.02	0.40
1:A:86:PHE:CE1	1:A:89:GLY:HA2	2.56	0.40
1:A:1002:GLN:O	1:A:1006:THR:HG23	2.21	0.40
1:B:55:PHE:HE1	1:B:275:PHE:H	1.69	0.40
1:C:53:ASP:OD2	1:C:195:LYS:NZ	2.53	0.40
1:C:200:TYR:CE2	1:C:230:PRO:HB3	2.56	0.40
1:A:48:LEU:O	1:A:304:LYS:NZ	2.49	0.40
1:A:597:VAL:HG23	1:A:608:VAL:HG13	2.03	0.40
1:B:558:LYS:HE2	1:B:558:LYS:HB2	1.89	0.40
1:C:741:TYR:CE1	1:C:966:LEU:HD21	2.56	0.40
1:C:33:THR:HA	1:C:58:PHE:HD1	1.86	0.40
1:C:201:PHE:HB3	1:C:229:LEU:HB3	2.02	0.40
1:A:212:LEU:HD22	1:A:217:PRO:HD3	2.03	0.40
1:B:574:ASP:O	1:B:587:ILE:HB	2.21	0.40
1:B:725:GLU:OE2	1:B:1064:HIS:NE2	2.45	0.40
1:C:222:ALA:HB2	1:C:285:ILE:HB	2.04	0.40
1:C:342:PHE:HE1	1:C:511:VAL:HG11	1.86	0.40
1:C:782:PHE:HD1	1:C:782:PHE:HA	1.67	0.40
1:A:32:PHE:HE1	1:A:218:GLN:HE21	1.69	0.40
1:A:1045:LYS:HE3	1:A:1045:LYS:HB3	1.88	0.40
1:C:870:ILE:O	1:C:874:THR:HG23	2.22	0.40
1:B:767:LEU:HA	1:B:770:ILE:HG12	2.03	0.40
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.56	0.40
1:C:1005:GLN:O	1:C:1009:THR:HG23	2.21	0.40
1:C:1001:LEU:HA	1:C:1001:LEU:HD23	1.85	0.40
1:A:601:GLY:O	1:A:604:THR:OG1	2.37	0.40
1:B:106:PHE:CD1	1:B:238:PHE:HB2	2.57	0.40
1:B:211:ASN:OD1	1:B:211:ASN:N	2.54	0.40
1:C:984:LEU:HB2	1:C:989:ALA:HB2	2.03	0.40
1:C:172:SER:OG	1:C:173:GLN:N	2.54	0.40
1:C:777:ASN:O	1:C:781:VAL:HG12	2.22	0.40
1:C:1002:GLN:O	1:C:1005:GLN:NE2	2.54	0.40
1:C:1002:GLN:O	1:C:1006:THR:HG23	2.21	0.40
1:C:914:ASN:ND2	1:C:1111:GLU:OE2	2.52	0.40
1:B:742:ILE:HD12	1:B:997:ILE:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:955:ASN:HD22	1:C:955:ASN:HA	1.60	0.40
1:B:131:CYS:HB2	1:B:133:PHE:CE1	2.57	0.40
1:B:591:SER:HB3	1:B:615:VAL:HG23	2.02	0.40
1:C:769:GLY:HA2	1:C:772:VAL:HG22	2.03	0.40
1:B:994:ASP:O	1:B:998:THR:HG23	2.22	0.40
1:C:276:LEU:HD22	1:C:306:PHE:CE2	2.57	0.40
1:A:317:ASN:ND2	1:B:737:ASP:OD1	2.54	0.40
1:A:913:GLN:HE21	1:C:1089:PHE:HB3	1.86	0.40
1:A:1049:LEU:HB2	1:A:1065:VAL:HG12	2.03	0.40
1:B:182:LYS:HD3	1:B:187:LYS:HD2	2.02	0.40
1:B:722:VAL:HG12	1:B:930:ALA:HB1	2.04	0.40
1:A:273:ARG:HD3	1:A:273:ARG:HA	1.89	0.40
1:A:666:ILE:HG12	1:A:671:CYS:HA	2.02	0.40
1:A:918:GLU:OE1	1:A:918:GLU:N	2.55	0.40
1:B:83:VAL:HG22	1:B:239:GLN:HE21	1.85	0.40
1:A:730:SER:HB2	1:A:774:GLN:NE2	2.35	0.40
1:A:914:ASN:O	1:A:918:GLU:HG2	2.21	0.40
1:A:938:LEU:HD13	1:A:938:LEU:HA	1.91	0.40
1:B:280:ASN:OD1	1:B:284:THR:N	2.54	0.40
1:C:393:THR:HB	1:C:516:GLU:HB3	2.03	0.40
1:C:782:PHE:HE2	1:C:1060:VAL:HB	1.86	0.40
1:A:906:PHE:CE2	1:A:916:LEU:HD13	2.56	0.40
1:C:18:PHE:HB2	1:C:21:ARG:HB2	2.03	0.40
1:C:712:ILE:HG21	1:C:1077:THR:HB	2.02	0.40
1:C:825:LYS:HD2	1:C:942:ALA:HA	2.02	0.40
1:A:1012:LEU:HB3	1:C:1013:ILE:HG21	2.03	0.40
1:A:1052:PHE:N	1:A:1063:LEU:O	2.42	0.40
1:B:1040:VAL:HG21	1:C:1035:GLY:HA3	2.03	0.40
1:A:344:ALA:HB3	1:A:347:PHE:HE1	1.86	0.40
1:B:38:TYR:HA	1:B:39:PRO:HD3	1.94	0.40
1:B:697:MET:HE2	1:B:697:MET:HB2	1.99	0.40
1:C:714:ILE:HD13	1:C:714:ILE:HA	1.92	0.40
1:C:777:ASN:O	1:C:781:VAL:HG12	2.21	0.40
1:B:33:THR:HB	1:B:220:PHE:HD1	1.86	0.40
1:B:452:LEU:HD13	1:B:492:LEU:HD21	2.03	0.40
1:B:1139:ASP:HB3	1:B:1142:GLN:HG2	2.02	0.40
1:C:131:CYS:HB2	1:C:133:PHE:CE1	2.56	0.40
1:C:884:SER:OG	1:C:894:LEU:N	2.54	0.40
1:A:1018:ILE:HD13	1:A:1018:ILE:HA	1.88	0.40
1:B:577:ARG:HD3	1:B:578:ASP:H	1.87	0.40
1:C:1001:LEU:O	1:C:1005:GLN:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1081:ILE:HG13	1:C:1115:ILE:HD13	2.04	0.40
1:B:18:PHE:HB2	1:B:21:ARG:HB2	2.03	0.40
1:B:741:TYR:CD2	1:B:1004:LEU:HD22	2.56	0.40
1:A:699:LEU:HB3	1:B:788:ILE:HD11	2.03	0.40
1:A:278:LYS:NZ	1:A:306:PHE:HB3	2.37	0.40
1:A:825:LYS:HD3	1:A:942:ALA:HA	2.03	0.40
1:B:66:HIS:HA	1:B:264:ALA:HA	2.03	0.40
1:B:597:VAL:HG13	1:B:608:VAL:HG13	2.03	0.40
1:C:99:ASN:HB3	1:C:102:ARG:HH12	1.85	0.40
1:A:35:GLY:HA3	1:A:56:LEU:HB3	2.03	0.40
1:A:914:ASN:ND2	1:C:1089:PHE:HE2	2.19	0.40
1:B:738:CYS:HB3	1:B:760:CYS:HB3	1.61	0.40
1:B:1004:LEU:O	1:B:1008:VAL:HG23	2.21	0.40
1:C:316:SER:OG	1:C:317:ASN:N	2.54	0.40
1:A:17:ASN:HB2	1:A:21:ARG:HD3	2.04	0.40
1:C:1116:THR:OG1	1:C:1118:ASP:OD1	2.30	0.40
1:C:1119:ASN:O	1:C:1119:ASN:ND2	2.53	0.40
1:B:858:LEU:HD23	1:B:959:LEU:HD12	2.03	0.40
1:C:807:PRO:HA	1:C:816:SER:HA	2.03	0.40
1:C:884:SER:OG	1:C:887:THR:OG1	2.36	0.40
1:C:335:LEU:HB3	1:C:364:ASP:HB2	2.02	0.40
1:B:92:PHE:HE2	1:B:94:SER:HB2	1.86	0.40
1:A:566:GLY:HA2	1:B:43:PHE:H	1.85	0.40
1:A:906:PHE:HD2	1:A:909:ILE:HD11	1.87	0.40
1:B:969:ASN:OD1	1:B:972:ALA:N	2.55	0.40
1:C:770:ILE:HD13	1:C:770:ILE:HG21	1.87	0.40
1:B:726:ILE:HD12	1:B:1061:VAL:HG22	2.02	0.40
1:C:1008:VAL:O	1:C:1012:LEU:HD22	2.21	0.40
1:C:1014:ARG:O	1:C:1018:ILE:HG12	2.21	0.40
1:B:403:ARG:HG2	1:B:497:PHE:HE1	1.87	0.40
1:B:528:LYS:HD2	1:B:529:LYS:N	2.36	0.40
1:B:953:ASN:O	1:B:957:GLN:NE2	2.47	0.40
1:C:946:GLY:HA2	1:C:949:GLN:HB3	2.02	0.40
1:A:206:LYS:HD2	1:A:207:HIS:N	2.36	0.40
1:A:902:MET:HB2	1:A:916:LEU:HD11	2.03	0.40
1:B:1107:ARG:NH2	1:C:904:TYR:HB2	2.37	0.40
1:C:38:TYR:HE2	1:C:224:GLU:HG2	1.87	0.40
1:A:238:PHE:HZ	1:A:267:VAL:HG21	1.87	0.40
1:A:961:THR:HA	1:A:964:LYS:HZ2	1.87	0.40
1:B:360:ASN:OD1	1:B:523:THR:OG1	2.27	0.40
1:A:103:GLY:HA3	1:A:119:ILE:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1013:ILE:HG13	1:C:1012:LEU:HG	2.02	0.40
1:B:88:ASP:OD2	1:B:271:GLN:NE2	2.54	0.40
1:B:172:SER:OG	1:B:173:GLN:N	2.54	0.40
1:B:1156:PHE:HE2	1:C:1152:LEU:HD22	1.86	0.40
1:A:247:SER:OG	1:A:259:THR:O	2.40	0.40
1:A:957:GLN:HE22	1:B:765:ARG:CZ	2.34	0.40
1:A:1054:GLN:HB2	1:A:1061:VAL:HG13	2.04	0.40
1:B:130:VAL:HB	1:B:168:PHE:HB3	2.02	0.40
1:C:990:GLU:HA	1:C:993:ILE:HG12	2.03	0.40
1:B:296:LEU:HD11	1:B:308:VAL:HG11	2.03	0.40
1:B:562:PHE:O	1:C:41:LYS:NZ	2.37	0.40
1:B:756:TYR:HB3	1:B:759:PHE:CE2	2.55	0.40
1:C:316:SER:OG	1:C:317:ASN:N	2.55	0.40
1:A:1013:ILE:HG21	1:B:1012:LEU:HG	2.02	0.40
1:C:193:VAL:HB	1:C:204:TYR:HD2	1.87	0.40
1:C:273:ARG:HD3	1:C:273:ARG:HA	1.74	0.40
1:C:310:LYS:HG3	1:C:600:PRO:HA	2.02	0.40
1:A:604:THR:OG1	1:A:605:SER:N	2.54	0.40
1:A:737:ASP:HB3	1:C:317:ASN:ND2	2.37	0.40
1:B:783:ALA:HB2	1:B:873:TYR:CZ	2.57	0.40
1:C:1024:LEU:HD11	1:C:1028:LYS:HE2	2.03	0.40
1:A:897:PRO:HG2	1:A:900:MET:HG2	2.02	0.40
1:B:878:LEU:O	1:B:882:ILE:HG12	2.21	0.40
1:C:403:ARG:HG2	1:C:497:PHE:HE1	1.87	0.40
1:B:206:LYS:HD2	1:B:207:HIS:N	2.37	0.40
1:A:200:TYR:CE1	1:A:230:PRO:HB3	2.56	0.40
1:A:326:ILE:HD11	1:A:534:VAL:HB	2.03	0.40
1:A:543:PHE:O	1:A:545:GLY:N	2.50	0.40
1:A:670:ILE:HD13	1:A:696:THR:HA	2.04	0.40
1:A:377:PHE:CE2	1:A:434:ILE:HG12	2.57	0.40
1:B:727:LEU:HD11	1:B:1024:LEU:HD22	2.03	0.40
1:A:1116:THR:OG1	1:A:1118:ASP:OD1	2.29	0.40
1:B:291:CYS:HB2	1:B:298:GLU:HA	2.03	0.40
1:B:328:ARG:HH12	1:B:533:LEU:HD13	1.86	0.40
1:C:200:TYR:CE1	1:C:230:PRO:HB3	2.56	0.40
1:C:878:LEU:O	1:C:882:ILE:HG22	2.21	0.40
1:C:877:LEU:O	1:C:881:THR:HG23	2.21	0.40
1:A:296:LEU:HB2	1:A:608:VAL:HG21	2.03	0.40
1:B:355:ARG:HD3	1:B:396:TYR:HB3	2.03	0.40
1:C:865:LEU:HD11	1:C:873:TYR:HE2	1.86	0.40
1:A:438:SER:HB3	1:A:509:ARG:HG3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:517:LEU:HD22	1:C:983:ARG:HH21	1.87	0.40
1:B:763:LEU:HD22	1:B:1008:VAL:HG11	2.03	0.40
1:B:905:ARG:NH1	1:B:1049:LEU:O	2.54	0.40
1:B:1086:LYS:HA	1:B:1125:ASN:HA	2.03	0.40
1:C:716:THR:N	1:C:1071:GLN:O	2.48	0.40
1:A:50:SER:HB2	1:A:304:LYS:NZ	2.37	0.40
1:B:104:TRP:HB2	1:B:106:PHE:CE1	2.57	0.40
1:C:993:ILE:O	1:C:997:ILE:HG12	2.22	0.40
1:A:426:PRO:HG2	1:A:429:PHE:HB2	2.03	0.40
1:A:1013:ILE:HG21	1:B:1012:LEU:HB3	2.02	0.40
1:A:1035:GLY:HA3	1:C:1040:VAL:HG11	2.04	0.40
1:B:192:PHE:HB3	1:B:194:PHE:CE2	2.56	0.40
1:A:1129:VAL:HG13	1:A:1132:ILE:HB	2.03	0.40
1:A:930:ALA:O	1:A:934:ILE:HG12	2.21	0.40
1:B:276:LEU:HD12	1:B:301:CYS:HA	2.04	0.40
1:B:1030:SER:O	1:B:1034:LEU:HB3	2.21	0.40
1:C:992:GLN:O	1:C:996:LEU:HD22	2.21	0.40
1:A:141:LEU:HD13	1:A:154:GLU:HG3	2.04	0.40
1:B:797:PHE:HD1	1:B:802:PHE:CD2	2.40	0.40
1:C:37:TYR:OH	1:C:195:LYS:NZ	2.46	0.40
1:B:374:PHE:HB2	1:B:377:PHE:CE1	2.57	0.40
1:B:878:LEU:HD21	1:B:1053:PRO:O	2.22	0.40
1:C:53:ASP:HB3	1:C:55:PHE:HE2	1.87	0.40
1:C:777:ASN:O	1:C:781:VAL:HG12	2.21	0.40
1:C:1001:LEU:HD23	1:C:1001:LEU:HA	1.84	0.40
1:C:1002:GLN:HA	1:C:1005:GLN:HG3	2.03	0.40
1:A:781:VAL:HG23	1:A:1029:MET:HG2	2.03	0.40
1:B:127:VAL:HG12	1:B:129:LYS:HE3	2.03	0.40
1:B:707:TYR:HB2	1:C:792:PRO:HG2	2.04	0.40
1:C:870:ILE:HD12	1:C:873:TYR:HD2	1.86	0.40
1:A:92:PHE:CE2	1:A:94:SER:HB2	2.57	0.40
1:A:567:ARG:HG2	1:A:573:THR:HA	2.04	0.40
1:A:783:ALA:HB2	1:A:873:TYR:CE1	2.56	0.40
1:A:1013:ILE:HD13	1:B:1012:LEU:HB2	2.03	0.40
1:B:783:ALA:HB2	1:B:873:TYR:CZ	2.56	0.40
1:A:533:LEU:HD21	1:A:585:LEU:HD11	2.04	0.40
1:B:104:TRP:HB2	1:B:106:PHE:CE1	2.53	0.40
1:B:1103:PHE:CD2	1:B:1112:PRO:HB3	2.57	0.40
1:C:870:ILE:O	1:C:874:THR:HG23	2.20	0.40
1:A:1096:VAL:HG13	1:A:1103:PHE:HB2	2.03	0.40
1:C:106:PHE:HB2	1:C:117:LEU:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1096:VAL:HG13	1:A:1103:PHE:HB2	2.02	0.40
1:B:971:GLY:H	1:C:755:GLN:NE2	2.19	0.40
1:C:643:PHE:CE2	1:C:645:THR:HG22	2.57	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%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	1-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	1-C	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48	77
1	2-A	1067/1230 (87%)	1025 (96%)	41 (4%)	1 (0%)	48	77
1	2-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	2-C	1067/1230 (87%)	1018 (95%)	48 (4%)	1 (0%)	48	77
1	3-A	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	3-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	3-C	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	4-A	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	4-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	4-C	1067/1230 (87%)	1018 (95%)	48 (4%)	1 (0%)	48	77
1	5-A	1067/1230 (87%)	1028 (96%)	38 (4%)	1 (0%)	48	77
1	5-B	1067/1230 (87%)	1020 (96%)	47 (4%)	0	100	100
1	5-C	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	6-A	1067/1230 (87%)	1025 (96%)	41 (4%)	1 (0%)	48	77
1	6-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	6-C	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	7-A	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48	77
1	7-B	1067/1230 (87%)	1020 (96%)	47 (4%)	0	100	100
1	7-C	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48	77
1	8-A	1067/1230 (87%)	1025 (96%)	41 (4%)	1 (0%)	48	77
1	8-B	1067/1230 (87%)	1020 (96%)	47 (4%)	0	100	100
1	8-C	1067/1230 (87%)	1025 (96%)	41 (4%)	1 (0%)	48	77
1	9-A	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48	77
1	9-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	9-C	1067/1230 (87%)	1018 (95%)	48 (4%)	1 (0%)	48	77
1	10-A	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	10-B	1067/1230 (87%)	1018 (95%)	49 (5%)	0	100	100
1	10-C	1067/1230 (87%)	1018 (95%)	48 (4%)	1 (0%)	48	77
1	11-A	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48	77
1	11-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	11-C	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	12-A	1067/1230 (87%)	1025 (96%)	41 (4%)	1 (0%)	48	77
1	12-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	12-C	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	13-A	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	13-B	1067/1230 (87%)	1020 (96%)	47 (4%)	0	100	100
1	13-C	1067/1230 (87%)	1016 (95%)	49 (5%)	2 (0%)	44	73
1	14-A	1067/1230 (87%)	1028 (96%)	38 (4%)	1 (0%)	48	77
1	14-B	1067/1230 (87%)	1018 (95%)	49 (5%)	0	100	100
1	14-C	1067/1230 (87%)	1016 (95%)	50 (5%)	1 (0%)	48	77
1	15-A	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48	77
1	15-B	1067/1230 (87%)	1022 (96%)	45 (4%)	0	100	100
1	15-C	1067/1230 (87%)	1017 (95%)	49 (5%)	1 (0%)	48	77
1	16-A	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77
1	16-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100	100
1	16-C	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48	77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	17-A	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48 77
1	17-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100 100
1	17-C	1067/1230 (87%)	1026 (96%)	40 (4%)	1 (0%)	48 77
1	18-A	1067/1230 (87%)	1024 (96%)	41 (4%)	2 (0%)	44 73
1	18-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100 100
1	18-C	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48 77
1	19-A	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48 77
1	19-B	1067/1230 (87%)	1020 (96%)	47 (4%)	0	100 100
1	19-C	1067/1230 (87%)	1017 (95%)	49 (5%)	1 (0%)	48 77
1	20-A	1067/1230 (87%)	1027 (96%)	39 (4%)	1 (0%)	48 77
1	20-B	1067/1230 (87%)	1019 (96%)	48 (4%)	0	100 100
1	20-C	1067/1230 (87%)	1017 (95%)	49 (5%)	1 (0%)	48 77
All	All	64020/73800 (87%)	61354 (96%)	2624 (4%)	42 (0%)	50 77

All (42) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	18-A	984	LEU
1	1-A	544	ASN
1	1-C	544	ASN
1	2-A	544	ASN
1	3-A	544	ASN
1	3-C	544	ASN
1	4-A	544	ASN
1	6-A	544	ASN
1	7-A	544	ASN
1	8-A	544	ASN
1	8-C	544	ASN
1	9-A	544	ASN
1	10-A	544	ASN
1	11-A	544	ASN
1	11-C	544	ASN
1	12-A	544	ASN
1	12-C	544	ASN
1	13-A	544	ASN
1	14-A	544	ASN
1	15-A	544	ASN
1	16-A	544	ASN

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Mol	Chain	Res	Type
1	17-C	544	ASN
1	18-A	544	ASN
1	20-A	544	ASN
1	2-C	532	ASN
1	4-C	532	ASN
1	5-A	544	ASN
1	5-C	544	ASN
1	6-C	544	ASN
1	7-C	544	ASN
1	9-C	532	ASN
1	10-C	532	ASN
1	13-C	532	ASN
1	14-C	532	ASN
1	15-C	532	ASN
1	16-C	544	ASN
1	17-A	544	ASN
1	18-C	544	ASN
1	19-A	544	ASN
1	19-C	532	ASN
1	20-C	532	ASN
1	13-C	150	LYS

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%)	921 (98%)	23 (2%)	44 77
1	1-B	944/1067 (88%)	915 (97%)	29 (3%)	35 69
1	1-C	944/1067 (88%)	926 (98%)	18 (2%)	52 82
1	2-A	944/1067 (88%)	922 (98%)	22 (2%)	45 78
1	2-B	944/1067 (88%)	926 (98%)	18 (2%)	52 82
1	2-C	944/1067 (88%)	926 (98%)	18 (2%)	52 82
1	3-A	944/1067 (88%)	927 (98%)	17 (2%)	54 83
1	3-B	944/1067 (88%)	920 (98%)	24 (2%)	42 75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3-C	944/1067 (88%)	919 (97%)	25 (3%)	41	75
1	4-A	944/1067 (88%)	929 (98%)	15 (2%)	58	85
1	4-B	944/1067 (88%)	923 (98%)	21 (2%)	47	79
1	4-C	944/1067 (88%)	920 (98%)	24 (2%)	42	75
1	5-A	944/1067 (88%)	926 (98%)	18 (2%)	52	82
1	5-B	944/1067 (88%)	923 (98%)	21 (2%)	47	79
1	5-C	944/1067 (88%)	922 (98%)	22 (2%)	45	78
1	6-A	944/1067 (88%)	929 (98%)	15 (2%)	58	85
1	6-B	944/1067 (88%)	909 (96%)	35 (4%)	29	63
1	6-C	944/1067 (88%)	928 (98%)	16 (2%)	56	84
1	7-A	944/1067 (88%)	926 (98%)	18 (2%)	52	82
1	7-B	944/1067 (88%)	923 (98%)	21 (2%)	47	79
1	7-C	944/1067 (88%)	915 (97%)	29 (3%)	35	69
1	8-A	944/1067 (88%)	921 (98%)	23 (2%)	44	77
1	8-B	944/1067 (88%)	920 (98%)	24 (2%)	42	75
1	8-C	944/1067 (88%)	926 (98%)	18 (2%)	52	82
1	9-A	944/1067 (88%)	924 (98%)	20 (2%)	48	80
1	9-B	944/1067 (88%)	926 (98%)	18 (2%)	52	82
1	9-C	944/1067 (88%)	925 (98%)	19 (2%)	50	81
1	10-A	944/1067 (88%)	924 (98%)	20 (2%)	48	80
1	10-B	944/1067 (88%)	922 (98%)	22 (2%)	45	78
1	10-C	944/1067 (88%)	923 (98%)	21 (2%)	47	79
1	11-A	944/1067 (88%)	922 (98%)	22 (2%)	45	78
1	11-B	944/1067 (88%)	920 (98%)	24 (2%)	42	75
1	11-C	944/1067 (88%)	921 (98%)	23 (2%)	44	77
1	12-A	944/1067 (88%)	922 (98%)	22 (2%)	45	78
1	12-B	944/1067 (88%)	921 (98%)	23 (2%)	44	77
1	12-C	944/1067 (88%)	922 (98%)	22 (2%)	45	78
1	13-A	944/1067 (88%)	924 (98%)	20 (2%)	48	80
1	13-B	944/1067 (88%)	917 (97%)	27 (3%)	37	71
1	13-C	944/1067 (88%)	927 (98%)	17 (2%)	54	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	14-A	944/1067 (88%)	922 (98%)	22 (2%)	45 78
1	14-B	944/1067 (88%)	925 (98%)	19 (2%)	50 81
1	14-C	944/1067 (88%)	932 (99%)	12 (1%)	65 88
1	15-A	944/1067 (88%)	917 (97%)	27 (3%)	37 71
1	15-B	944/1067 (88%)	920 (98%)	24 (2%)	42 75
1	15-C	944/1067 (88%)	920 (98%)	24 (2%)	42 75
1	16-A	944/1067 (88%)	918 (97%)	26 (3%)	38 72
1	16-B	944/1067 (88%)	922 (98%)	22 (2%)	45 78
1	16-C	944/1067 (88%)	918 (97%)	26 (3%)	38 72
1	17-A	944/1067 (88%)	920 (98%)	24 (2%)	42 75
1	17-B	944/1067 (88%)	914 (97%)	30 (3%)	34 68
1	17-C	944/1067 (88%)	924 (98%)	20 (2%)	48 80
1	18-A	944/1067 (88%)	920 (98%)	24 (2%)	42 75
1	18-B	944/1067 (88%)	924 (98%)	20 (2%)	48 80
1	18-C	944/1067 (88%)	925 (98%)	19 (2%)	50 81
1	19-A	944/1067 (88%)	933 (99%)	11 (1%)	67 89
1	19-B	944/1067 (88%)	928 (98%)	16 (2%)	56 84
1	19-C	944/1067 (88%)	925 (98%)	19 (2%)	50 81
1	20-A	944/1067 (88%)	917 (97%)	27 (3%)	37 71
1	20-B	944/1067 (88%)	920 (98%)	24 (2%)	42 75
1	20-C	944/1067 (88%)	921 (98%)	23 (2%)	44 77
All	All	56640/64020 (88%)	55347 (98%)	1293 (2%)	46 78

All (1293) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1-A	44	ARG
1	1-A	104	TRP
1	1-A	140	PHE
1	1-A	153	MET
1	1-A	194	PHE
1	1-A	200	TYR
1	1-A	201	PHE
1	1-A	265	TYR
1	1-A	318	PHE

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Mol	Chain	Res	Type
1	1-A	319	ARG
1	1-A	568	ASP
1	1-A	675	GLN
1	1-A	721	SER
1	1-A	730	SER
1	1-A	759	PHE
1	1-A	773	GLU
1	1-A	774	GLN
1	1-A	775	ASP
1	1-A	914	ASN
1	1-A	919	ASN
1	1-A	945	LEU
1	1-A	955	ASN
1	1-A	1041	ASP
1	1-B	45	SER
1	1-B	59	PHE
1	1-B	86	PHE
1	1-B	153	MET
1	1-B	160	TYR
1	1-B	238	PHE
1	1-B	245	HIS
1	1-B	306	PHE
1	1-B	318	PHE
1	1-B	436	TRP
1	1-B	592	PHE
1	1-B	613	GLN
1	1-B	675	GLN
1	1-B	732	THR
1	1-B	735	SER
1	1-B	738	CYS
1	1-B	775	ASP
1	1-B	777	ASN
1	1-B	796	ASP
1	1-B	898	PHE
1	1-B	919	ASN
1	1-B	938	LEU
1	1-B	962	LEU
1	1-B	978	ASN
1	1-B	1030	SER
1	1-B	1038	LYS
1	1-B	1106	GLN
1	1-B	1127	ASP

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Mol	Chain	Res	Type
1	1-B	1138	TYR
1	1-C	30	ASN
1	1-C	170	TYR
1	1-C	200	TYR
1	1-C	238	PHE
1	1-C	318	PHE
1	1-C	562	PHE
1	1-C	711	SER
1	1-C	763	LEU
1	1-C	773	GLU
1	1-C	782	PHE
1	1-C	817	PHE
1	1-C	869	MET
1	1-C	895	GLN
1	1-C	904	TYR
1	1-C	933	LYS
1	1-C	953	ASN
1	1-C	974	SER
1	1-C	1001	LEU
1	2-A	153	MET
1	2-A	221	SER
1	2-A	305	SER
1	2-A	316	SER
1	2-A	377	PHE
1	2-A	386	LYS
1	2-A	464	PHE
1	2-A	558	LYS
1	2-A	721	SER
1	2-A	730	SER
1	2-A	735	SER
1	2-A	737	ASP
1	2-A	759	PHE
1	2-A	777	ASN
1	2-A	823	PHE
1	2-A	856	ASN
1	2-A	914	ASN
1	2-A	919	ASN
1	2-A	945	LEU
1	2-A	965	GLN
1	2-A	967	SER
1	2-A	1017	GLU
1	2-B	53	ASP

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Mol	Chain	Res	Type
1	2-B	153	MET
1	2-B	194	PHE
1	2-B	224	GLU
1	2-B	265	TYR
1	2-B	389	ASP
1	2-B	592	PHE
1	2-B	730	SER
1	2-B	738	CYS
1	2-B	817	PHE
1	2-B	856	ASN
1	2-B	861	LEU
1	2-B	865	LEU
1	2-B	978	ASN
1	2-B	990	GLU
1	2-B	1042	PHE
1	2-B	1101	HIS
1	2-B	1118	ASP
1	2-C	129	LYS
1	2-C	140	PHE
1	2-C	200	TYR
1	2-C	201	PHE
1	2-C	206	LYS
1	2-C	318	PHE
1	2-C	342	PHE
1	2-C	377	PHE
1	2-C	449	TYR
1	2-C	707	TYR
1	2-C	741	TYR
1	2-C	775	ASP
1	2-C	777	ASN
1	2-C	904	TYR
1	2-C	914	ASN
1	2-C	954	GLN
1	2-C	975	SER
1	2-C	1119	ASN
1	3-A	153	MET
1	3-A	200	TYR
1	3-A	314	GLN
1	3-A	321	GLN
1	3-A	721	SER
1	3-A	727	LEU
1	3-A	730	SER

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Mol	Chain	Res	Type
1	3-A	767	LEU
1	3-A	775	ASP
1	3-A	776	LYS
1	3-A	823	PHE
1	3-A	938	LEU
1	3-A	955	ASN
1	3-A	1010	GLN
1	3-A	1017	GLU
1	3-A	1038	LYS
1	3-A	1041	ASP
1	3-B	104	TRP
1	3-B	133	PHE
1	3-B	152	TRP
1	3-B	153	MET
1	3-B	168	PHE
1	3-B	202	LYS
1	3-B	245	HIS
1	3-B	318	PHE
1	3-B	319	ARG
1	3-B	592	PHE
1	3-B	738	CYS
1	3-B	777	ASN
1	3-B	796	ASP
1	3-B	806	LEU
1	3-B	817	PHE
1	3-B	820	ASP
1	3-B	861	LEU
1	3-B	865	LEU
1	3-B	898	PHE
1	3-B	904	TYR
1	3-B	947	LYS
1	3-B	954	GLN
1	3-B	990	GLU
1	3-B	1030	SER
1	3-C	40	ASP
1	3-C	52	GLN
1	3-C	53	ASP
1	3-C	118	LEU
1	3-C	269	TYR
1	3-C	306	PHE
1	3-C	318	PHE
1	3-C	558	LYS

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Mol	Chain	Res	Type
1	3-C	759	PHE
1	3-C	773	GLU
1	3-C	775	ASP
1	3-C	776	LYS
1	3-C	779	GLN
1	3-C	800	PHE
1	3-C	947	LYS
1	3-C	953	ASN
1	3-C	954	GLN
1	3-C	966	LEU
1	3-C	974	SER
1	3-C	990	GLU
1	3-C	1001	LEU
1	3-C	1002	GLN
1	3-C	1017	GLU
1	3-C	1019	ARG
1	3-C	1106	GLN
1	4-A	88	ASP
1	4-A	198	ASP
1	4-A	305	SER
1	4-A	318	PHE
1	4-A	408	ARG
1	4-A	456	PHE
1	4-A	568	ASP
1	4-A	585	LEU
1	4-A	721	SER
1	4-A	763	LEU
1	4-A	950	ASP
1	4-A	957	GLN
1	4-A	983	ARG
1	4-A	1041	ASP
1	4-A	1050	MET
1	4-B	91	TYR
1	4-B	140	PHE
1	4-B	153	MET
1	4-B	168	PHE
1	4-B	205	SER
1	4-B	306	PHE
1	4-B	316	SER
1	4-B	380	TYR
1	4-B	408	ARG
1	4-B	421	TYR

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Mol	Chain	Res	Type
1	4-B	423	TYR
1	4-B	456	PHE
1	4-B	464	PHE
1	4-B	571	ASP
1	4-B	707	TYR
1	4-B	754	LEU
1	4-B	762	GLN
1	4-B	861	LEU
1	4-B	865	LEU
1	4-B	898	PHE
1	4-B	1050	MET
1	4-C	52	GLN
1	4-C	53	ASP
1	4-C	54	LEU
1	4-C	116	SER
1	4-C	204	TYR
1	4-C	265	TYR
1	4-C	271	GLN
1	4-C	351	TYR
1	4-C	495	TYR
1	4-C	546	LEU
1	4-C	673	SER
1	4-C	730	SER
1	4-C	763	LEU
1	4-C	773	GLU
1	4-C	775	ASP
1	4-C	790	LYS
1	4-C	817	PHE
1	4-C	901	GLN
1	4-C	907	ASN
1	4-C	940	SER
1	4-C	957	GLN
1	4-C	967	SER
1	4-C	1002	GLN
1	4-C	1118	ASP
1	5-A	269	TYR
1	5-A	306	PHE
1	5-A	318	PHE
1	5-A	329	PHE
1	5-A	558	LYS
1	5-A	586	ASP
1	5-A	721	SER

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Mol	Chain	Res	Type
1	5-A	730	SER
1	5-A	762	GLN
1	5-A	776	LYS
1	5-A	780	GLU
1	5-A	782	PHE
1	5-A	823	PHE
1	5-A	933	LYS
1	5-A	985	ASP
1	5-A	995	ARG
1	5-A	1019	ARG
1	5-A	1041	ASP
1	5-B	43	PHE
1	5-B	104	TRP
1	5-B	153	MET
1	5-B	201	PHE
1	5-B	271	GLN
1	5-B	318	PHE
1	5-B	613	GLN
1	5-B	671	CYS
1	5-B	697	MET
1	5-B	731	MET
1	5-B	738	CYS
1	5-B	756	TYR
1	5-B	774	GLN
1	5-B	779	GLN
1	5-B	817	PHE
1	5-B	895	GLN
1	5-B	904	TYR
1	5-B	907	ASN
1	5-B	964	LYS
1	5-B	1010	GLN
1	5-B	1118	ASP
1	5-C	30	ASN
1	5-C	37	TYR
1	5-C	53	ASP
1	5-C	66	HIS
1	5-C	81	ASN
1	5-C	201	PHE
1	5-C	269	TYR
1	5-C	543	PHE
1	5-C	567	ARG
1	5-C	707	TYR

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Mol	Chain	Res	Type
1	5-C	730	SER
1	5-C	762	GLN
1	5-C	773	GLU
1	5-C	776	LYS
1	5-C	802	PHE
1	5-C	917	TYR
1	5-C	955	ASN
1	5-C	1002	GLN
1	5-C	1017	GLU
1	5-C	1019	ARG
1	5-C	1055	SER
1	5-C	1118	ASP
1	6-A	104	TRP
1	6-A	153	MET
1	6-A	196	ASN
1	6-A	318	PHE
1	6-A	730	SER
1	6-A	777	ASN
1	6-A	782	PHE
1	6-A	796	ASP
1	6-A	919	ASN
1	6-A	938	LEU
1	6-A	947	LYS
1	6-A	954	GLN
1	6-A	960	ASN
1	6-A	975	SER
1	6-A	1148	PHE
1	6-B	53	ASP
1	6-B	104	TRP
1	6-B	168	PHE
1	6-B	224	GLU
1	6-B	306	PHE
1	6-B	313	TYR
1	6-B	380	TYR
1	6-B	389	ASP
1	6-B	392	PHE
1	6-B	408	ARG
1	6-B	449	TYR
1	6-B	541	PHE
1	6-B	586	ASP
1	6-B	643	PHE
1	6-B	707	TYR

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Mol	Chain	Res	Type
1	6-B	727	LEU
1	6-B	730	SER
1	6-B	731	MET
1	6-B	735	SER
1	6-B	737	ASP
1	6-B	738	CYS
1	6-B	748	GLU
1	6-B	774	GLN
1	6-B	815	ARG
1	6-B	823	PHE
1	6-B	865	LEU
1	6-B	904	TYR
1	6-B	907	ASN
1	6-B	974	SER
1	6-B	990	GLU
1	6-B	1002	GLN
1	6-B	1012	LEU
1	6-B	1019	ARG
1	6-B	1030	SER
1	6-B	1050	MET
1	6-C	104	TRP
1	6-C	140	PHE
1	6-C	202	LYS
1	6-C	273	ARG
1	6-C	309	GLU
1	6-C	730	SER
1	6-C	806	LEU
1	6-C	817	PHE
1	6-C	866	THR
1	6-C	869	MET
1	6-C	895	GLN
1	6-C	938	LEU
1	6-C	940	SER
1	6-C	964	LYS
1	6-C	967	SER
1	6-C	1005	GLN
1	7-A	50	SER
1	7-A	92	PHE
1	7-A	152	TRP
1	7-A	221	SER
1	7-A	318	PHE
1	7-A	564	GLN

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Mol	Chain	Res	Type
1	7-A	730	SER
1	7-A	759	PHE
1	7-A	763	LEU
1	7-A	773	GLU
1	7-A	779	GLN
1	7-A	914	ASN
1	7-A	947	LYS
1	7-A	955	ASN
1	7-A	964	LYS
1	7-A	967	SER
1	7-A	983	ARG
1	7-A	1002	GLN
1	7-B	104	TRP
1	7-B	152	TRP
1	7-B	196	ASN
1	7-B	201	PHE
1	7-B	357	ARG
1	7-B	403	ARG
1	7-B	408	ARG
1	7-B	421	TYR
1	7-B	436	TRP
1	7-B	464	PHE
1	7-B	552	LEU
1	7-B	707	TYR
1	7-B	763	LEU
1	7-B	777	ASN
1	7-B	856	ASN
1	7-B	914	ASN
1	7-B	938	LEU
1	7-B	954	GLN
1	7-B	957	GLN
1	7-B	1010	GLN
1	7-B	1037	SER
1	7-C	52	GLN
1	7-C	53	ASP
1	7-C	153	MET
1	7-C	175	PHE
1	7-C	265	TYR
1	7-C	318	PHE
1	7-C	319	ARG
1	7-C	558	LYS
1	7-C	710	ASN

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Mol	Chain	Res	Type
1	7-C	718	PHE
1	7-C	730	SER
1	7-C	738	CYS
1	7-C	756	TYR
1	7-C	759	PHE
1	7-C	760	CYS
1	7-C	763	LEU
1	7-C	782	PHE
1	7-C	796	ASP
1	7-C	817	PHE
1	7-C	823	PHE
1	7-C	869	MET
1	7-C	888	PHE
1	7-C	967	SER
1	7-C	981	LEU
1	7-C	985	ASP
1	7-C	994	ASP
1	7-C	1050	MET
1	7-C	1055	SER
1	7-C	1086	LYS
1	8-A	104	TRP
1	8-A	194	PHE
1	8-A	238	PHE
1	8-A	273	ARG
1	8-A	306	PHE
1	8-A	318	PHE
1	8-A	558	LYS
1	8-A	568	ASP
1	8-A	759	PHE
1	8-A	763	LEU
1	8-A	774	GLN
1	8-A	775	ASP
1	8-A	776	LYS
1	8-A	823	PHE
1	8-A	947	LYS
1	8-A	955	ASN
1	8-A	964	LYS
1	8-A	967	SER
1	8-A	974	SER
1	8-A	977	LEU
1	8-A	990	GLU
1	8-A	996	LEU

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Mol	Chain	Res	Type
1	8-A	1148	PHE
1	8-B	54	LEU
1	8-B	86	PHE
1	8-B	104	TRP
1	8-B	201	PHE
1	8-B	306	PHE
1	8-B	377	PHE
1	8-B	380	TYR
1	8-B	408	ARG
1	8-B	449	TYR
1	8-B	537	LYS
1	8-B	592	PHE
1	8-B	731	MET
1	8-B	738	CYS
1	8-B	817	PHE
1	8-B	820	ASP
1	8-B	865	LEU
1	8-B	898	PHE
1	8-B	940	SER
1	8-B	957	GLN
1	8-B	964	LYS
1	8-B	990	GLU
1	8-B	1010	GLN
1	8-B	1014	ARG
1	8-B	1050	MET
1	8-C	53	ASP
1	8-C	104	TRP
1	8-C	152	TRP
1	8-C	194	PHE
1	8-C	306	PHE
1	8-C	318	PHE
1	8-C	558	LYS
1	8-C	662	CYS
1	8-C	730	SER
1	8-C	759	PHE
1	8-C	782	PHE
1	8-C	817	PHE
1	8-C	875	SER
1	8-C	914	ASN
1	8-C	940	SER
1	8-C	964	LYS
1	8-C	974	SER

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Mol	Chain	Res	Type
1	8-C	1019	ARG
1	9-A	50	SER
1	9-A	52	GLN
1	9-A	92	PHE
1	9-A	170	TYR
1	9-A	221	SER
1	9-A	273	ARG
1	9-A	318	PHE
1	9-A	392	PHE
1	9-A	408	ARG
1	9-A	423	TYR
1	9-A	568	ASP
1	9-A	658	ASN
1	9-A	741	TYR
1	9-A	776	LYS
1	9-A	777	ASN
1	9-A	916	LEU
1	9-A	919	ASN
1	9-A	955	ASN
1	9-A	965	GLN
1	9-A	1041	ASP
1	9-B	53	ASP
1	9-B	168	PHE
1	9-B	392	PHE
1	9-B	456	PHE
1	9-B	721	SER
1	9-B	730	SER
1	9-B	738	CYS
1	9-B	754	LEU
1	9-B	823	PHE
1	9-B	864	LEU
1	9-B	865	LEU
1	9-B	869	MET
1	9-B	938	LEU
1	9-B	940	SER
1	9-B	957	GLN
1	9-B	964	LYS
1	9-B	979	ASP
1	9-B	1107	ARG
1	9-C	153	MET
1	9-C	201	PHE
1	9-C	223	LEU

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Mol	Chain	Res	Type
1	9-C	273	ARG
1	9-C	317	ASN
1	9-C	318	PHE
1	9-C	423	TYR
1	9-C	558	LYS
1	9-C	571	ASP
1	9-C	580	GLN
1	9-C	658	ASN
1	9-C	730	SER
1	9-C	741	TYR
1	9-C	756	TYR
1	9-C	782	PHE
1	9-C	948	LEU
1	9-C	964	LYS
1	9-C	983	ARG
1	9-C	1055	SER
1	10-A	34	ARG
1	10-A	133	PHE
1	10-A	135	PHE
1	10-A	177	MET
1	10-A	206	LYS
1	10-A	305	SER
1	10-A	318	PHE
1	10-A	365	TYR
1	10-A	374	PHE
1	10-A	436	TRP
1	10-A	558	LYS
1	10-A	711	SER
1	10-A	759	PHE
1	10-A	856	ASN
1	10-A	914	ASN
1	10-A	919	ASN
1	10-A	947	LYS
1	10-A	959	LEU
1	10-A	964	LYS
1	10-A	1050	MET
1	10-B	140	PHE
1	10-B	194	PHE
1	10-B	287	ASP
1	10-B	305	SER
1	10-B	306	PHE
1	10-B	540	ASN

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Mol	Chain	Res	Type
1	10-B	738	CYS
1	10-B	762	GLN
1	10-B	764	ASN
1	10-B	775	ASP
1	10-B	780	GLU
1	10-B	817	PHE
1	10-B	869	MET
1	10-B	898	PHE
1	10-B	904	TYR
1	10-B	914	ASN
1	10-B	919	ASN
1	10-B	945	LEU
1	10-B	970	PHE
1	10-B	995	ARG
1	10-B	1055	SER
1	10-B	1108	ASN
1	10-C	92	PHE
1	10-C	140	PHE
1	10-C	153	MET
1	10-C	168	PHE
1	10-C	201	PHE
1	10-C	318	PHE
1	10-C	536	ASN
1	10-C	543	PHE
1	10-C	650	LEU
1	10-C	663	ASP
1	10-C	707	TYR
1	10-C	762	GLN
1	10-C	773	GLU
1	10-C	782	PHE
1	10-C	901	GLN
1	10-C	949	GLN
1	10-C	953	ASN
1	10-C	966	LEU
1	10-C	974	SER
1	10-C	1014	ARG
1	10-C	1019	ARG
1	11-A	44	ARG
1	11-A	140	PHE
1	11-A	265	TYR
1	11-A	269	TYR
1	11-A	303	LEU

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Mol	Chain	Res	Type
1	11-A	306	PHE
1	11-A	318	PHE
1	11-A	324	GLU
1	11-A	707	TYR
1	11-A	721	SER
1	11-A	730	SER
1	11-A	759	PHE
1	11-A	763	LEU
1	11-A	776	LYS
1	11-A	777	ASN
1	11-A	822	LEU
1	11-A	823	PHE
1	11-A	919	ASN
1	11-A	959	LEU
1	11-A	1017	GLU
1	11-A	1019	ARG
1	11-A	1050	MET
1	11-B	104	TRP
1	11-B	153	MET
1	11-B	271	GLN
1	11-B	291	CYS
1	11-B	306	PHE
1	11-B	392	PHE
1	11-B	456	PHE
1	11-B	508	TYR
1	11-B	731	MET
1	11-B	737	ASP
1	11-B	741	TYR
1	11-B	796	ASP
1	11-B	817	PHE
1	11-B	861	LEU
1	11-B	865	LEU
1	11-B	898	PHE
1	11-B	945	LEU
1	11-B	947	LYS
1	11-B	955	ASN
1	11-B	1012	LEU
1	11-B	1050	MET
1	11-B	1086	LYS
1	11-B	1127	ASP
1	11-B	1138	TYR
1	11-C	50	SER

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Mol	Chain	Res	Type
1	11-C	52	GLN
1	11-C	81	ASN
1	11-C	194	PHE
1	11-C	201	PHE
1	11-C	223	LEU
1	11-C	306	PHE
1	11-C	318	PHE
1	11-C	319	ARG
1	11-C	558	LYS
1	11-C	721	SER
1	11-C	730	SER
1	11-C	775	ASP
1	11-C	776	LYS
1	11-C	886	TRP
1	11-C	888	PHE
1	11-C	904	TYR
1	11-C	914	ASN
1	11-C	933	LYS
1	11-C	938	LEU
1	11-C	967	SER
1	11-C	1055	SER
1	11-C	1138	TYR
1	12-A	53	ASP
1	12-A	153	MET
1	12-A	170	TYR
1	12-A	194	PHE
1	12-A	265	TYR
1	12-A	306	PHE
1	12-A	318	PHE
1	12-A	558	LYS
1	12-A	658	ASN
1	12-A	737	ASP
1	12-A	751	ASN
1	12-A	901	GLN
1	12-A	904	TYR
1	12-A	947	LYS
1	12-A	950	ASP
1	12-A	964	LYS
1	12-A	977	LEU
1	12-A	978	ASN
1	12-A	983	ARG
1	12-A	1019	ARG

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Mol	Chain	Res	Type
1	12-A	1041	ASP
1	12-A	1086	LYS
1	12-B	53	ASP
1	12-B	104	TRP
1	12-B	194	PHE
1	12-B	306	PHE
1	12-B	318	PHE
1	12-B	592	PHE
1	12-B	707	TYR
1	12-B	735	SER
1	12-B	738	CYS
1	12-B	741	TYR
1	12-B	762	GLN
1	12-B	775	ASP
1	12-B	777	ASN
1	12-B	817	PHE
1	12-B	823	PHE
1	12-B	898	PHE
1	12-B	955	ASN
1	12-B	964	LYS
1	12-B	1041	ASP
1	12-B	1050	MET
1	12-B	1055	SER
1	12-B	1118	ASP
1	12-B	1138	TYR
1	12-C	52	GLN
1	12-C	104	TRP
1	12-C	168	PHE
1	12-C	265	TYR
1	12-C	306	PHE
1	12-C	318	PHE
1	12-C	558	LYS
1	12-C	662	CYS
1	12-C	730	SER
1	12-C	750	SER
1	12-C	763	LEU
1	12-C	773	GLU
1	12-C	886	TRP
1	12-C	904	TYR
1	12-C	917	TYR
1	12-C	933	LYS
1	12-C	967	SER

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Mol	Chain	Res	Type
1	12-C	969	ASN
1	12-C	990	GLU
1	12-C	1017	GLU
1	12-C	1037	SER
1	12-C	1055	SER
1	13-A	92	PHE
1	13-A	104	TRP
1	13-A	140	PHE
1	13-A	194	PHE
1	13-A	265	TYR
1	13-A	324	GLU
1	13-A	643	PHE
1	13-A	721	SER
1	13-A	730	SER
1	13-A	756	TYR
1	13-A	763	LEU
1	13-A	767	LEU
1	13-A	776	LYS
1	13-A	954	GLN
1	13-A	957	GLN
1	13-A	967	SER
1	13-A	969	ASN
1	13-A	974	SER
1	13-A	1002	GLN
1	13-A	1118	ASP
1	13-B	50	SER
1	13-B	86	PHE
1	13-B	92	PHE
1	13-B	104	TRP
1	13-B	153	MET
1	13-B	168	PHE
1	13-B	201	PHE
1	13-B	296	LEU
1	13-B	316	SER
1	13-B	317	ASN
1	13-B	558	LYS
1	13-B	730	SER
1	13-B	731	MET
1	13-B	751	ASN
1	13-B	764	ASN
1	13-B	820	ASP
1	13-B	823	PHE

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Mol	Chain	Res	Type
1	13-B	914	ASN
1	13-B	954	GLN
1	13-B	978	ASN
1	13-B	1014	ARG
1	13-B	1019	ARG
1	13-B	1030	SER
1	13-B	1042	PHE
1	13-B	1050	MET
1	13-B	1118	ASP
1	13-B	1142	GLN
1	13-C	140	PHE
1	13-C	153	MET
1	13-C	168	PHE
1	13-C	201	PHE
1	13-C	562	PHE
1	13-C	730	SER
1	13-C	773	GLU
1	13-C	779	GLN
1	13-C	782	PHE
1	13-C	823	PHE
1	13-C	878	LEU
1	13-C	950	ASP
1	13-C	990	GLU
1	13-C	1002	GLN
1	13-C	1007	TYR
1	13-C	1041	ASP
1	13-C	1118	ASP
1	14-A	53	ASP
1	14-A	118	LEU
1	14-A	193	VAL
1	14-A	221	SER
1	14-A	224	GLU
1	14-A	304	LYS
1	14-A	318	PHE
1	14-A	365	TYR
1	14-A	389	ASP
1	14-A	464	PHE
1	14-A	558	LYS
1	14-A	568	ASP
1	14-A	643	PHE
1	14-A	721	SER
1	14-A	763	LEU

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Mol	Chain	Res	Type
1	14-A	775	ASP
1	14-A	823	PHE
1	14-A	914	ASN
1	14-A	957	GLN
1	14-A	967	SER
1	14-A	974	SER
1	14-A	1041	ASP
1	14-B	153	MET
1	14-B	168	PHE
1	14-B	201	PHE
1	14-B	214	ARG
1	14-B	357	ARG
1	14-B	380	TYR
1	14-B	643	PHE
1	14-B	707	TYR
1	14-B	738	CYS
1	14-B	817	PHE
1	14-B	864	LEU
1	14-B	901	GLN
1	14-B	940	SER
1	14-B	990	GLU
1	14-B	1019	ARG
1	14-B	1030	SER
1	14-B	1050	MET
1	14-B	1086	LYS
1	14-B	1108	ASN
1	14-C	200	TYR
1	14-C	309	GLU
1	14-C	318	PHE
1	14-C	423	TYR
1	14-C	466	ARG
1	14-C	776	LYS
1	14-C	823	PHE
1	14-C	901	GLN
1	14-C	938	LEU
1	14-C	1001	LEU
1	14-C	1002	GLN
1	14-C	1055	SER
1	15-A	79	PHE
1	15-A	81	ASN
1	15-A	92	PHE
1	15-A	104	TRP

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Mol	Chain	Res	Type
1	15-A	169	GLU
1	15-A	201	PHE
1	15-A	206	LYS
1	15-A	224	GLU
1	15-A	293	LEU
1	15-A	318	PHE
1	15-A	568	ASP
1	15-A	571	ASP
1	15-A	643	PHE
1	15-A	660	TYR
1	15-A	730	SER
1	15-A	735	SER
1	15-A	796	ASP
1	15-A	884	SER
1	15-A	886	TRP
1	15-A	904	TYR
1	15-A	914	ASN
1	15-A	933	LYS
1	15-A	940	SER
1	15-A	947	LYS
1	15-A	955	ASN
1	15-A	967	SER
1	15-A	1002	GLN
1	15-B	66	HIS
1	15-B	92	PHE
1	15-B	104	TRP
1	15-B	133	PHE
1	15-B	153	MET
1	15-B	168	PHE
1	15-B	238	PHE
1	15-B	273	ARG
1	15-B	456	PHE
1	15-B	546	LEU
1	15-B	558	LYS
1	15-B	592	PHE
1	15-B	596	SER
1	15-B	738	CYS
1	15-B	817	PHE
1	15-B	861	LEU
1	15-B	914	ASN
1	15-B	938	LEU
1	15-B	945	LEU

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Mol	Chain	Res	Type
1	15-B	957	GLN
1	15-B	990	GLU
1	15-B	1007	TYR
1	15-B	1012	LEU
1	15-B	1019	ARG
1	15-C	31	SER
1	15-C	140	PHE
1	15-C	194	PHE
1	15-C	200	TYR
1	15-C	206	LYS
1	15-C	221	SER
1	15-C	273	ARG
1	15-C	306	PHE
1	15-C	316	SER
1	15-C	318	PHE
1	15-C	559	PHE
1	15-C	673	SER
1	15-C	738	CYS
1	15-C	767	LEU
1	15-C	773	GLU
1	15-C	776	LYS
1	15-C	782	PHE
1	15-C	813	SER
1	15-C	823	PHE
1	15-C	912	THR
1	15-C	974	SER
1	15-C	990	GLU
1	15-C	1019	ARG
1	15-C	1066	THR
1	16-A	53	ASP
1	16-A	113	LYS
1	16-A	194	PHE
1	16-A	198	ASP
1	16-A	201	PHE
1	16-A	305	SER
1	16-A	318	PHE
1	16-A	568	ASP
1	16-A	643	PHE
1	16-A	721	SER
1	16-A	730	SER
1	16-A	735	SER
1	16-A	762	GLN

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Mol	Chain	Res	Type
1	16-A	773	GLU
1	16-A	777	ASN
1	16-A	884	SER
1	16-A	950	ASP
1	16-A	959	LEU
1	16-A	967	SER
1	16-A	975	SER
1	16-A	978	ASN
1	16-A	1017	GLU
1	16-A	1041	ASP
1	16-A	1050	MET
1	16-A	1123	SER
1	16-A	1146	ASP
1	16-B	53	ASP
1	16-B	129	LYS
1	16-B	153	MET
1	16-B	276	LEU
1	16-B	296	LEU
1	16-B	305	SER
1	16-B	318	PHE
1	16-B	592	PHE
1	16-B	707	TYR
1	16-B	735	SER
1	16-B	738	CYS
1	16-B	755	GLN
1	16-B	762	GLN
1	16-B	777	ASN
1	16-B	817	PHE
1	16-B	861	LEU
1	16-B	865	LEU
1	16-B	954	GLN
1	16-B	1030	SER
1	16-B	1038	LYS
1	16-B	1041	ASP
1	16-B	1106	GLN
1	16-C	113	LYS
1	16-C	153	MET
1	16-C	201	PHE
1	16-C	306	PHE
1	16-C	314	GLN
1	16-C	318	PHE
1	16-C	533	LEU

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Mol	Chain	Res	Type
1	16-C	562	PHE
1	16-C	643	PHE
1	16-C	663	ASP
1	16-C	730	SER
1	16-C	737	ASP
1	16-C	773	GLU
1	16-C	782	PHE
1	16-C	817	PHE
1	16-C	861	LEU
1	16-C	904	TYR
1	16-C	933	LYS
1	16-C	940	SER
1	16-C	966	LEU
1	16-C	990	GLU
1	16-C	1001	LEU
1	16-C	1005	GLN
1	16-C	1037	SER
1	16-C	1055	SER
1	16-C	1118	ASP
1	17-A	34	ARG
1	17-A	200	TYR
1	17-A	201	PHE
1	17-A	291	CYS
1	17-A	305	SER
1	17-A	306	PHE
1	17-A	334	ASN
1	17-A	536	ASN
1	17-A	558	LYS
1	17-A	562	PHE
1	17-A	568	ASP
1	17-A	663	ASP
1	17-A	730	SER
1	17-A	755	GLN
1	17-A	759	PHE
1	17-A	763	LEU
1	17-A	796	ASP
1	17-A	823	PHE
1	17-A	869	MET
1	17-A	916	LEU
1	17-A	955	ASN
1	17-A	1017	GLU
1	17-A	1041	ASP

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Mol	Chain	Res	Type
1	17-A	1118	ASP
1	17-B	91	TYR
1	17-B	104	TRP
1	17-B	140	PHE
1	17-B	152	TRP
1	17-B	194	PHE
1	17-B	201	PHE
1	17-B	306	PHE
1	17-B	392	PHE
1	17-B	408	ARG
1	17-B	436	TRP
1	17-B	449	TYR
1	17-B	456	PHE
1	17-B	567	ARG
1	17-B	731	MET
1	17-B	733	LYS
1	17-B	749	CYS
1	17-B	760	CYS
1	17-B	762	GLN
1	17-B	765	ARG
1	17-B	774	GLN
1	17-B	796	ASP
1	17-B	817	PHE
1	17-B	820	ASP
1	17-B	823	PHE
1	17-B	865	LEU
1	17-B	898	PHE
1	17-B	960	ASN
1	17-B	994	ASP
1	17-B	1007	TYR
1	17-B	1050	MET
1	17-C	40	ASP
1	17-C	52	GLN
1	17-C	92	PHE
1	17-C	153	MET
1	17-C	201	PHE
1	17-C	245	HIS
1	17-C	306	PHE
1	17-C	318	PHE
1	17-C	319	ARG
1	17-C	558	LYS
1	17-C	612	TYR

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Mol	Chain	Res	Type
1	17-C	663	ASP
1	17-C	721	SER
1	17-C	730	SER
1	17-C	775	ASP
1	17-C	933	LYS
1	17-C	940	SER
1	17-C	967	SER
1	17-C	974	SER
1	17-C	995	ARG
1	18-A	30	ASN
1	18-A	50	SER
1	18-A	160	TYR
1	18-A	177	MET
1	18-A	194	PHE
1	18-A	200	TYR
1	18-A	221	SER
1	18-A	224	GLU
1	18-A	237	ARG
1	18-A	265	TYR
1	18-A	313	TYR
1	18-A	318	PHE
1	18-A	436	TRP
1	18-A	558	LYS
1	18-A	565	PHE
1	18-A	654	GLU
1	18-A	755	GLN
1	18-A	823	PHE
1	18-A	905	ARG
1	18-A	919	ASN
1	18-A	965	GLN
1	18-A	975	SER
1	18-A	985	ASP
1	18-A	1041	ASP
1	18-B	50	SER
1	18-B	92	PHE
1	18-B	198	ASP
1	18-B	304	LYS
1	18-B	318	PHE
1	18-B	380	TYR
1	18-B	392	PHE
1	18-B	592	PHE
1	18-B	612	TYR

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Mol	Chain	Res	Type
1	18-B	730	SER
1	18-B	731	MET
1	18-B	735	SER
1	18-B	741	TYR
1	18-B	775	ASP
1	18-B	776	LYS
1	18-B	817	PHE
1	18-B	964	LYS
1	18-B	1030	SER
1	18-B	1037	SER
1	18-B	1086	LYS
1	18-C	49	HIS
1	18-C	52	GLN
1	18-C	152	TRP
1	18-C	201	PHE
1	18-C	265	TYR
1	18-C	304	LYS
1	18-C	318	PHE
1	18-C	533	LEU
1	18-C	707	TYR
1	18-C	750	SER
1	18-C	775	ASP
1	18-C	782	PHE
1	18-C	940	SER
1	18-C	954	GLN
1	18-C	957	GLN
1	18-C	974	SER
1	18-C	975	SER
1	18-C	1002	GLN
1	18-C	1055	SER
1	19-A	53	ASP
1	19-A	305	SER
1	19-A	306	PHE
1	19-A	643	PHE
1	19-A	658	ASN
1	19-A	735	SER
1	19-A	755	GLN
1	19-A	759	PHE
1	19-A	796	ASP
1	19-A	867	ASP
1	19-A	888	PHE
1	19-B	104	TRP

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Mol	Chain	Res	Type
1	19-B	194	PHE
1	19-B	201	PHE
1	19-B	269	TYR
1	19-B	306	PHE
1	19-B	316	SER
1	19-B	318	PHE
1	19-B	697	MET
1	19-B	707	TYR
1	19-B	817	PHE
1	19-B	861	LEU
1	19-B	865	LEU
1	19-B	904	TYR
1	19-B	975	SER
1	19-B	1007	TYR
1	19-B	1148	PHE
1	19-C	95	THR
1	19-C	104	TRP
1	19-C	168	PHE
1	19-C	296	LEU
1	19-C	535	LYS
1	19-C	650	LEU
1	19-C	673	SER
1	19-C	737	ASP
1	19-C	756	TYR
1	19-C	773	GLU
1	19-C	825	LYS
1	19-C	866	THR
1	19-C	894	LEU
1	19-C	901	GLN
1	19-C	954	GLN
1	19-C	955	ASN
1	19-C	983	ARG
1	19-C	1041	ASP
1	19-C	1111	GLU
1	20-A	50	SER
1	20-A	134	GLN
1	20-A	152	TRP
1	20-A	153	MET
1	20-A	206	LYS
1	20-A	221	SER
1	20-A	369	TYR
1	20-A	386	LYS

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Mol	Chain	Res	Type
1	20-A	568	ASP
1	20-A	571	ASP
1	20-A	751	ASN
1	20-A	762	GLN
1	20-A	763	LEU
1	20-A	773	GLU
1	20-A	776	LYS
1	20-A	861	LEU
1	20-A	867	ASP
1	20-A	884	SER
1	20-A	888	PHE
1	20-A	904	TYR
1	20-A	914	ASN
1	20-A	933	LYS
1	20-A	940	SER
1	20-A	950	ASP
1	20-A	965	GLN
1	20-A	966	LEU
1	20-A	990	GLU
1	20-B	152	TRP
1	20-B	153	MET
1	20-B	160	TYR
1	20-B	173	GLN
1	20-B	201	PHE
1	20-B	697	MET
1	20-B	754	LEU
1	20-B	774	GLN
1	20-B	775	ASP
1	20-B	782	PHE
1	20-B	806	LEU
1	20-B	813	SER
1	20-B	817	PHE
1	20-B	861	LEU
1	20-B	865	LEU
1	20-B	898	PHE
1	20-B	940	SER
1	20-B	955	ASN
1	20-B	957	GLN
1	20-B	979	ASP
1	20-B	1019	ARG
1	20-B	1030	SER
1	20-B	1037	SER

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Mol	Chain	Res	Type
1	20-B	1148	PHE
1	20-C	140	PHE
1	20-C	200	TYR
1	20-C	201	PHE
1	20-C	436	TRP
1	20-C	515	PHE
1	20-C	529	LYS
1	20-C	538	CYS
1	20-C	541	PHE
1	20-C	558	LYS
1	20-C	776	LYS
1	20-C	825	LYS
1	20-C	854	LYS
1	20-C	901	GLN
1	20-C	907	ASN
1	20-C	940	SER
1	20-C	983	ARG
1	20-C	985	ASP
1	20-C	995	ARG
1	20-C	1005	GLN
1	20-C	1010	GLN
1	20-C	1014	ARG
1	20-C	1019	ARG
1	20-C	1050	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (170) such sidechains are listed below:

Mol	Chain	Res	Type
1	1-A	137	ASN
1	1-A	774	GLN
1	1-A	913	GLN
1	1-B	613	GLN
1	1-B	913	GLN
1	1-B	1054	GLN
1	1-C	314	GLN
1	2-A	314	GLN
1	2-A	774	GLN
1	2-A	784	GLN
1	2-A	1005	GLN
1	2-B	317	ASN
1	2-B	913	GLN
1	2-B	1054	GLN

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Mol	Chain	Res	Type
1	2-C	1005	GLN
1	3-A	755	GLN
1	3-A	913	GLN
1	3-B	52	GLN
1	3-B	913	GLN
1	3-C	314	GLN
1	3-C	969	ASN
1	3-C	992	GLN
1	3-C	1005	GLN
1	4-A	774	GLN
1	4-A	1011	GLN
1	4-C	487	ASN
1	4-C	901	GLN
1	4-C	955	ASN
1	4-C	957	GLN
1	5-A	784	GLN
1	5-A	913	GLN
1	5-A	1002	GLN
1	5-A	1106	GLN
1	5-B	751	ASN
1	5-B	774	GLN
1	5-B	784	GLN
1	5-B	901	GLN
1	5-B	914	ASN
1	5-B	1005	GLN
1	5-B	1054	GLN
1	6-A	955	ASN
1	6-A	969	ASN
1	6-B	613	GLN
1	6-B	755	GLN
1	6-C	314	GLN
1	6-C	613	GLN
1	6-C	784	GLN
1	6-C	787	GLN
1	7-A	314	GLN
1	7-A	613	GLN
1	7-B	784	GLN
1	7-B	901	GLN
1	7-B	949	GLN
1	7-B	955	ASN
1	7-B	957	GLN
1	7-B	1005	GLN

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Mol	Chain	Res	Type
1	7-C	314	GLN
1	7-C	1002	GLN
1	7-C	1005	GLN
1	8-B	613	GLN
1	8-B	901	GLN
1	8-B	913	GLN
1	8-B	1011	GLN
1	8-C	784	GLN
1	8-C	1005	GLN
1	9-A	784	GLN
1	9-A	913	GLN
1	9-A	992	GLN
1	9-B	314	GLN
1	9-B	613	GLN
1	9-B	895	GLN
1	9-C	388	ASN
1	9-C	644	GLN
1	9-C	774	GLN
1	9-C	777	ASN
1	9-C	1088	HIS
1	10-A	137	ASN
1	10-A	755	GLN
1	10-A	1011	GLN
1	10-B	450	ASN
1	10-B	613	GLN
1	10-B	1048	HIS
1	10-C	14	GLN
1	10-C	271	GLN
1	10-C	613	GLN
1	10-C	965	GLN
1	11-B	784	GLN
1	12-A	755	GLN
1	12-A	913	GLN
1	12-A	1005	GLN
1	12-B	777	ASN
1	12-B	784	GLN
1	12-B	914	ASN
1	12-B	954	GLN
1	12-C	314	GLN
1	12-C	755	GLN
1	12-C	1002	GLN
1	13-B	613	GLN

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Continued from previous page...

Mol	Chain	Res	Type
1	13-B	755	GLN
1	13-B	901	GLN
1	13-C	784	GLN
1	13-C	1005	GLN
1	14-A	755	GLN
1	14-A	949	GLN
1	14-A	953	ASN
1	14-A	955	ASN
1	14-B	314	GLN
1	14-B	613	GLN
1	14-B	913	GLN
1	14-C	388	ASN
1	14-C	755	GLN
1	14-C	777	ASN
1	14-C	969	ASN
1	14-C	1002	GLN
1	15-A	777	ASN
1	15-A	1005	GLN
1	15-B	613	GLN
1	15-B	804	GLN
1	15-B	935	GLN
1	15-B	957	GLN
1	15-C	239	GLN
1	15-C	913	GLN
1	15-C	1005	GLN
1	16-A	314	GLN
1	16-A	613	GLN
1	16-A	774	GLN
1	16-B	239	GLN
1	16-B	762	GLN
1	16-B	913	GLN
1	16-B	914	ASN
1	16-C	49	HIS
1	16-C	755	GLN
1	16-C	777	ASN
1	17-A	314	GLN
1	17-A	613	GLN
1	17-B	755	GLN
1	17-B	774	GLN
1	17-B	1054	GLN
1	17-C	314	GLN
1	17-C	784	GLN

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Mol	Chain	Res	Type
1	18-A	913	GLN
1	18-B	81	ASN
1	18-B	125	ASN
1	18-B	239	GLN
1	18-B	613	GLN
1	18-B	774	GLN
1	18-B	784	GLN
1	18-B	913	GLN
1	18-B	965	GLN
1	18-B	1005	GLN
1	18-C	762	GLN
1	18-C	784	GLN
1	18-C	1005	GLN
1	19-A	774	GLN
1	19-A	777	ASN
1	19-A	895	GLN
1	19-A	955	ASN
1	19-B	755	GLN
1	19-B	774	GLN
1	19-B	957	GLN
1	19-C	137	ASN
1	19-C	784	GLN
1	19-C	1005	GLN
1	19-C	1010	GLN
1	20-B	173	GLN
1	20-B	314	GLN
1	20-B	613	GLN
1	20-B	969	ASN
1	20-C	360	ASN
1	20-C	755	GLN

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 (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

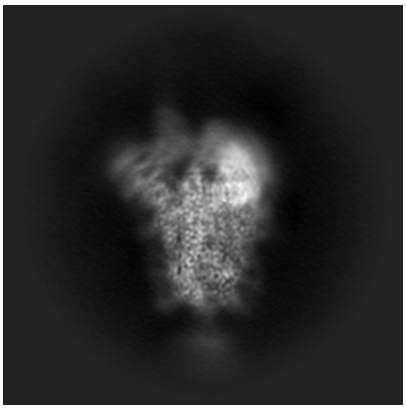
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-51279. These allow visual inspection of the internal detail of the map and identification of artifacts.

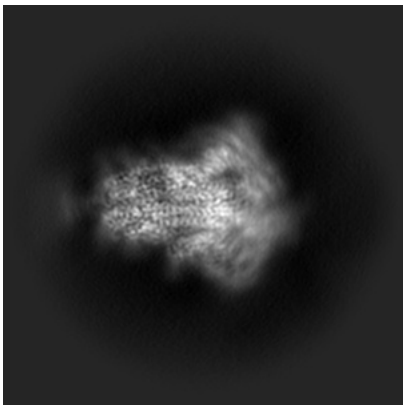
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

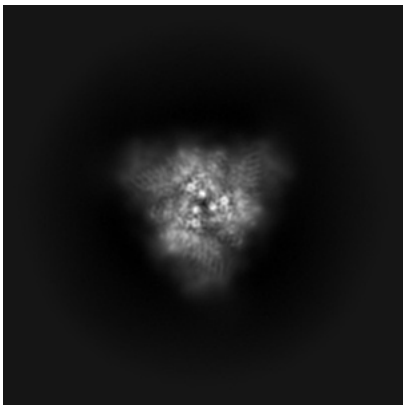
6.1.1 Primary map



X

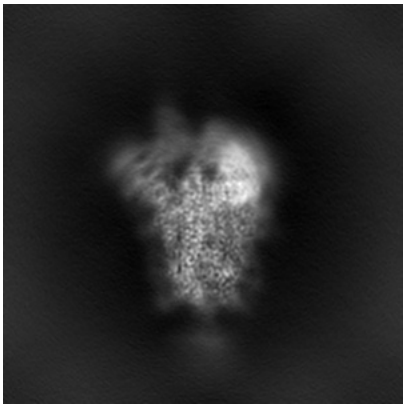


Y

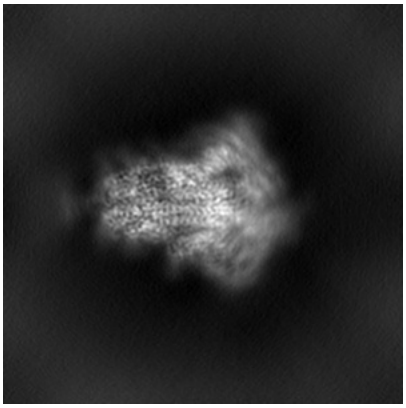


Z

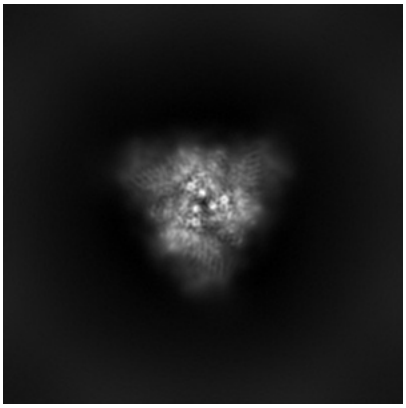
6.1.2 Raw map



X



Y

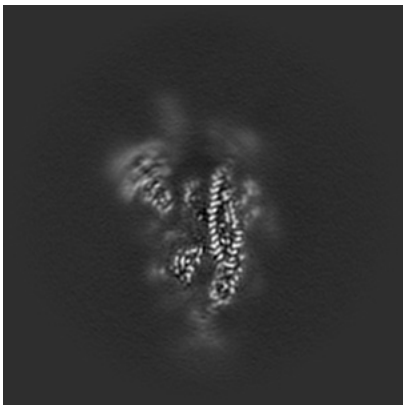


Z

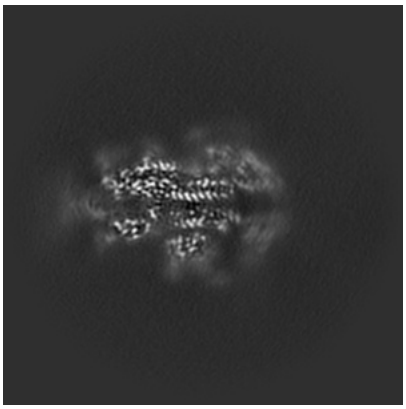
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

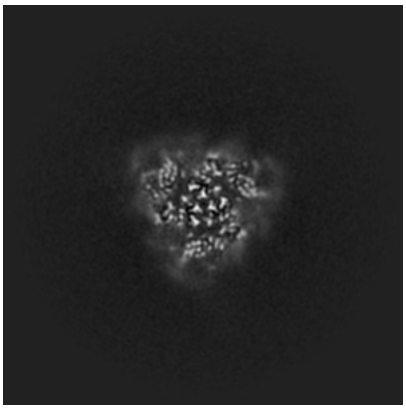
6.2.1 Primary map



X Index: 112

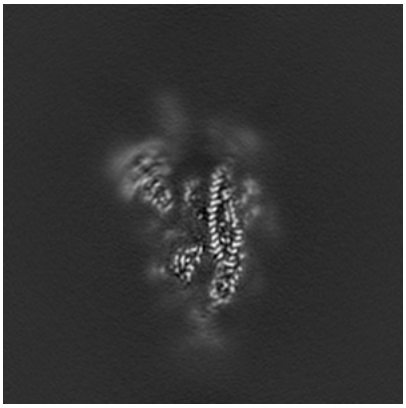


Y Index: 112

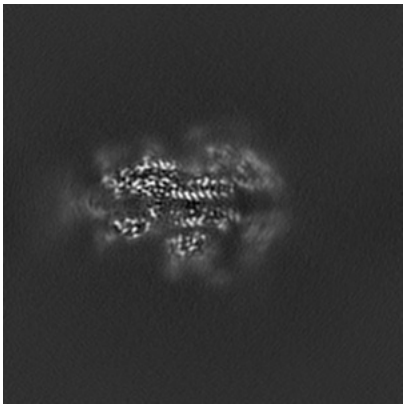


Z Index: 112

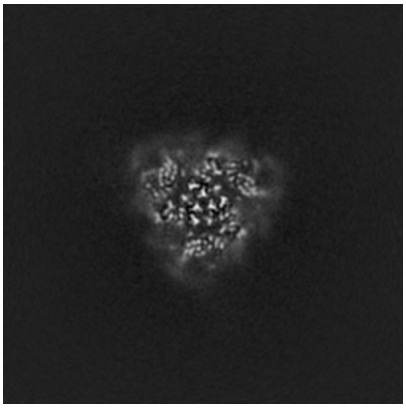
6.2.2 Raw map



X Index: 112



Y Index: 112

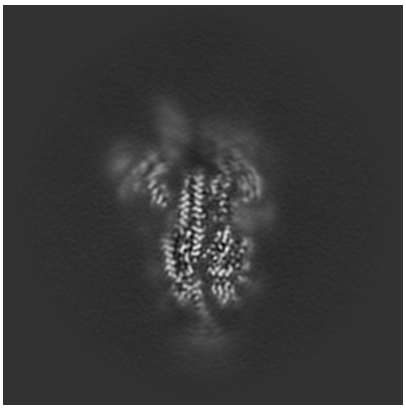


Z Index: 112

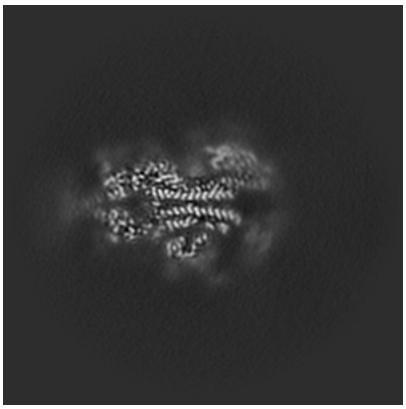
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

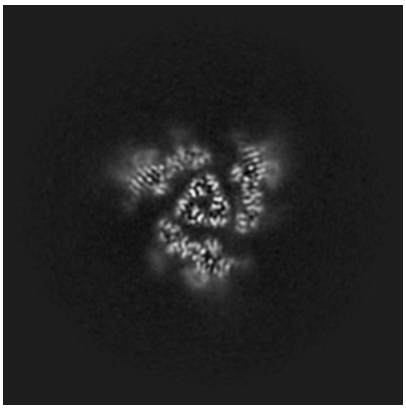
6.3.1 Primary map



X Index: 107

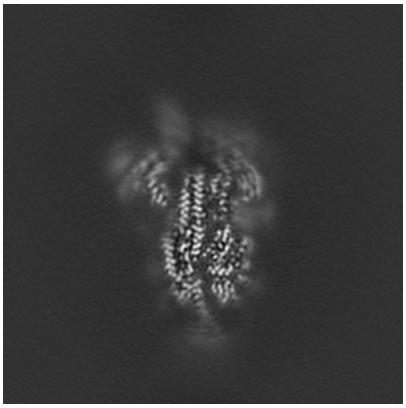


Y Index: 110

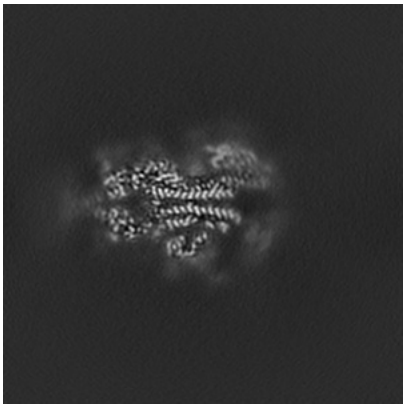


Z Index: 122

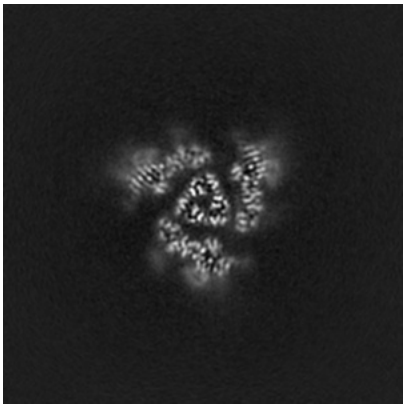
6.3.2 Raw map



X Index: 107



Y Index: 110

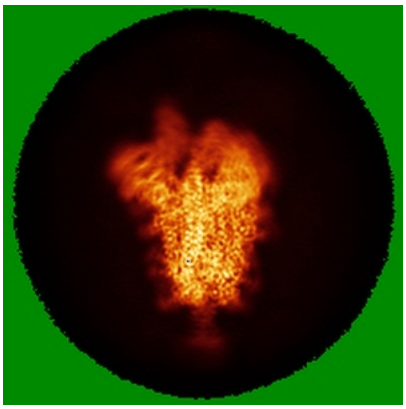


Z Index: 122

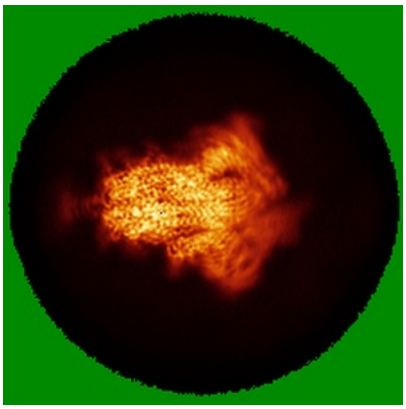
The images above show the largest variance slices of the map in three orthogonal directions.

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

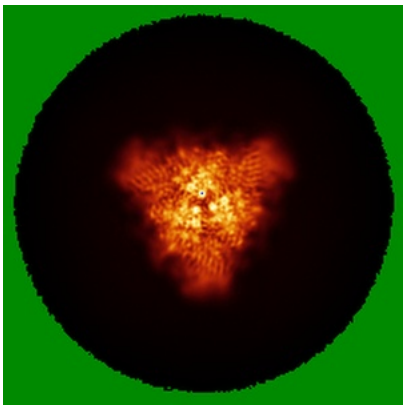
6.4.1 Primary map



X

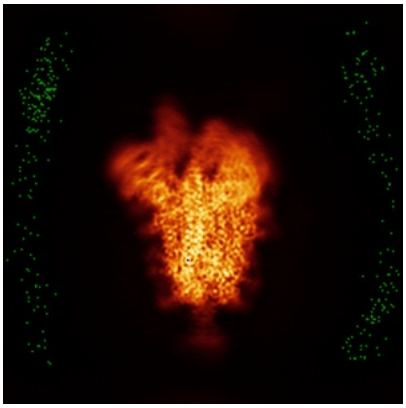


Y

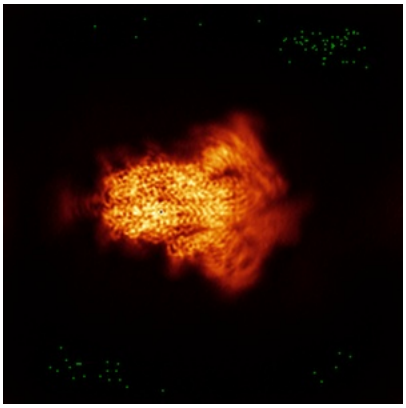


Z

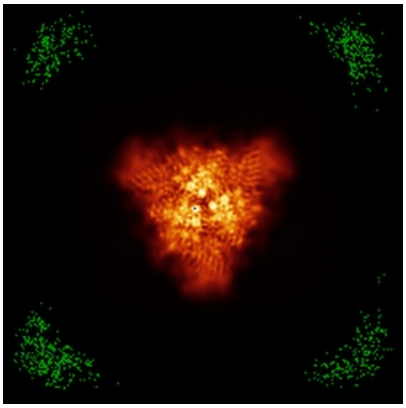
6.4.2 Raw map



X



Y

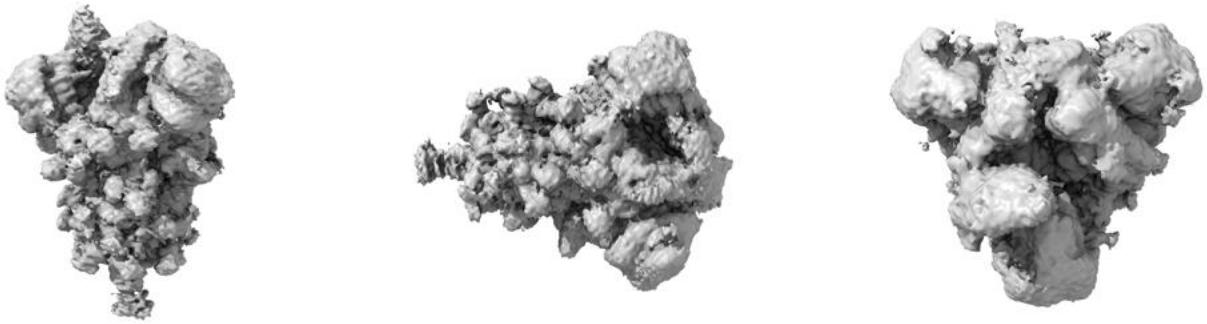


Z

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)

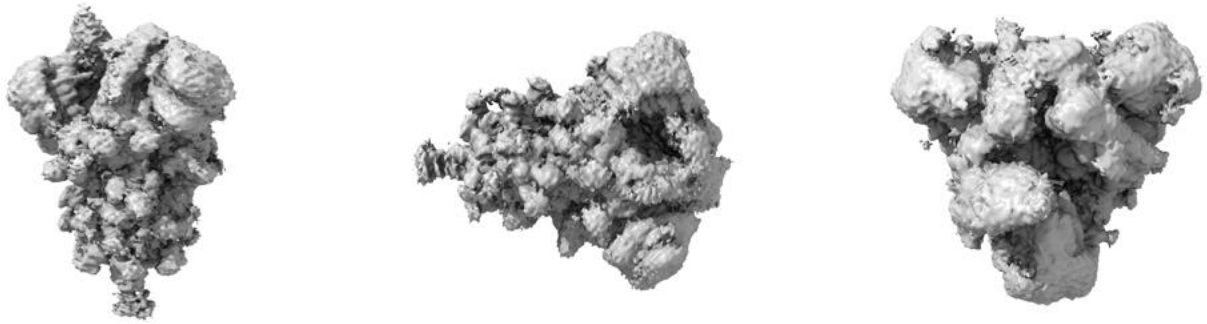
6.5.1 Primary map



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.

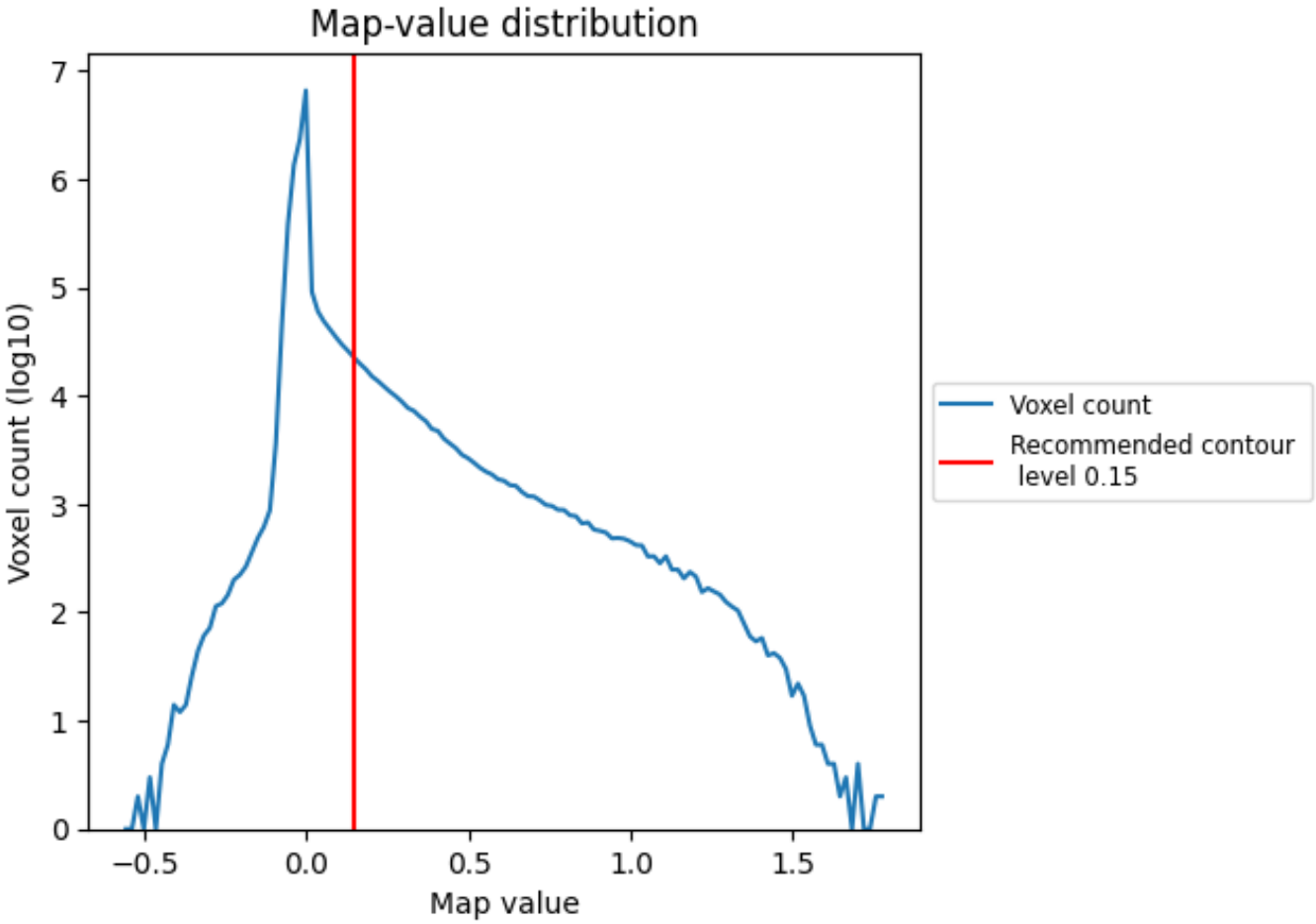
6.6 Mask visualisation (i)

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

7 Map analysis

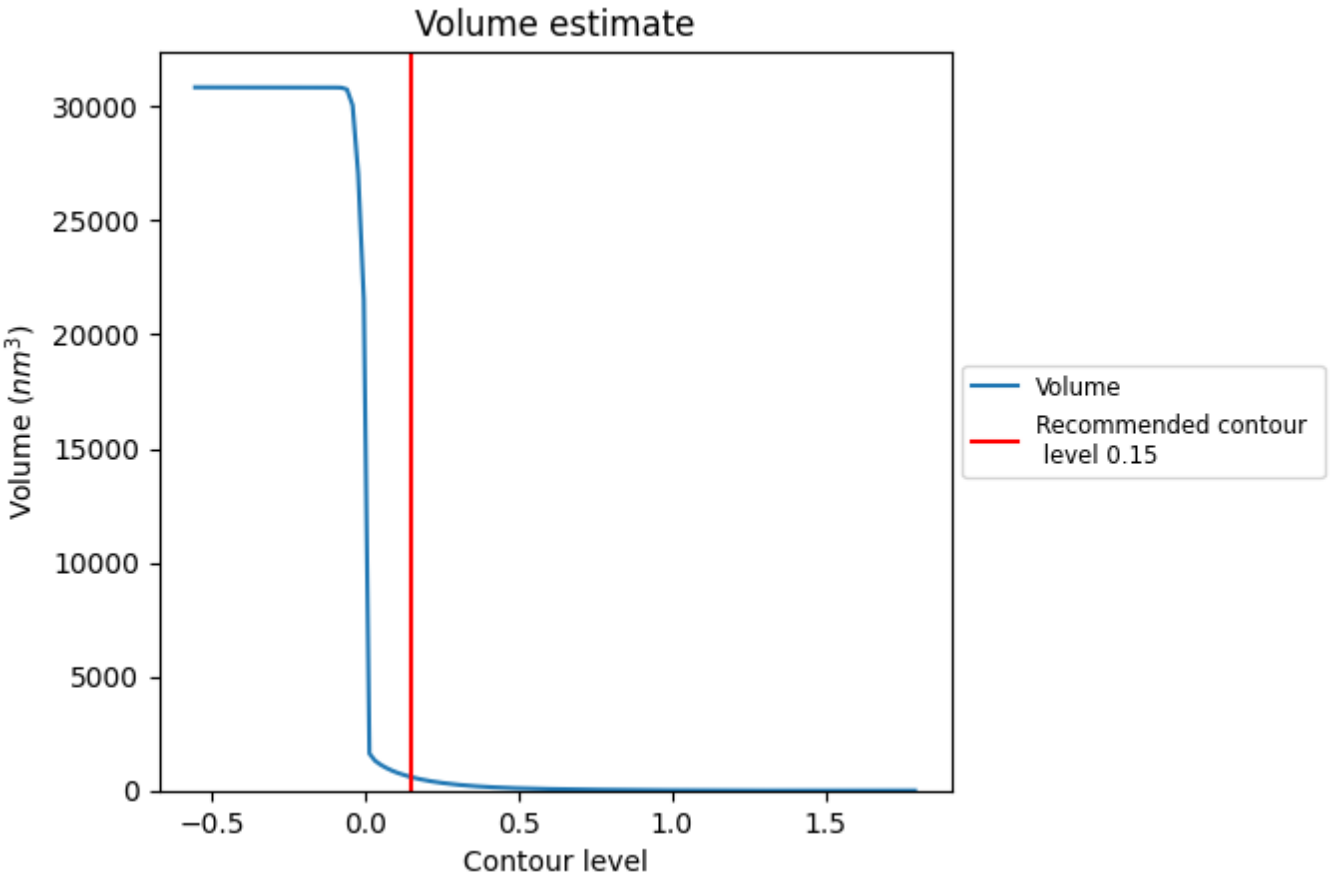
This section contains the results of statistical analysis of the map.

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.

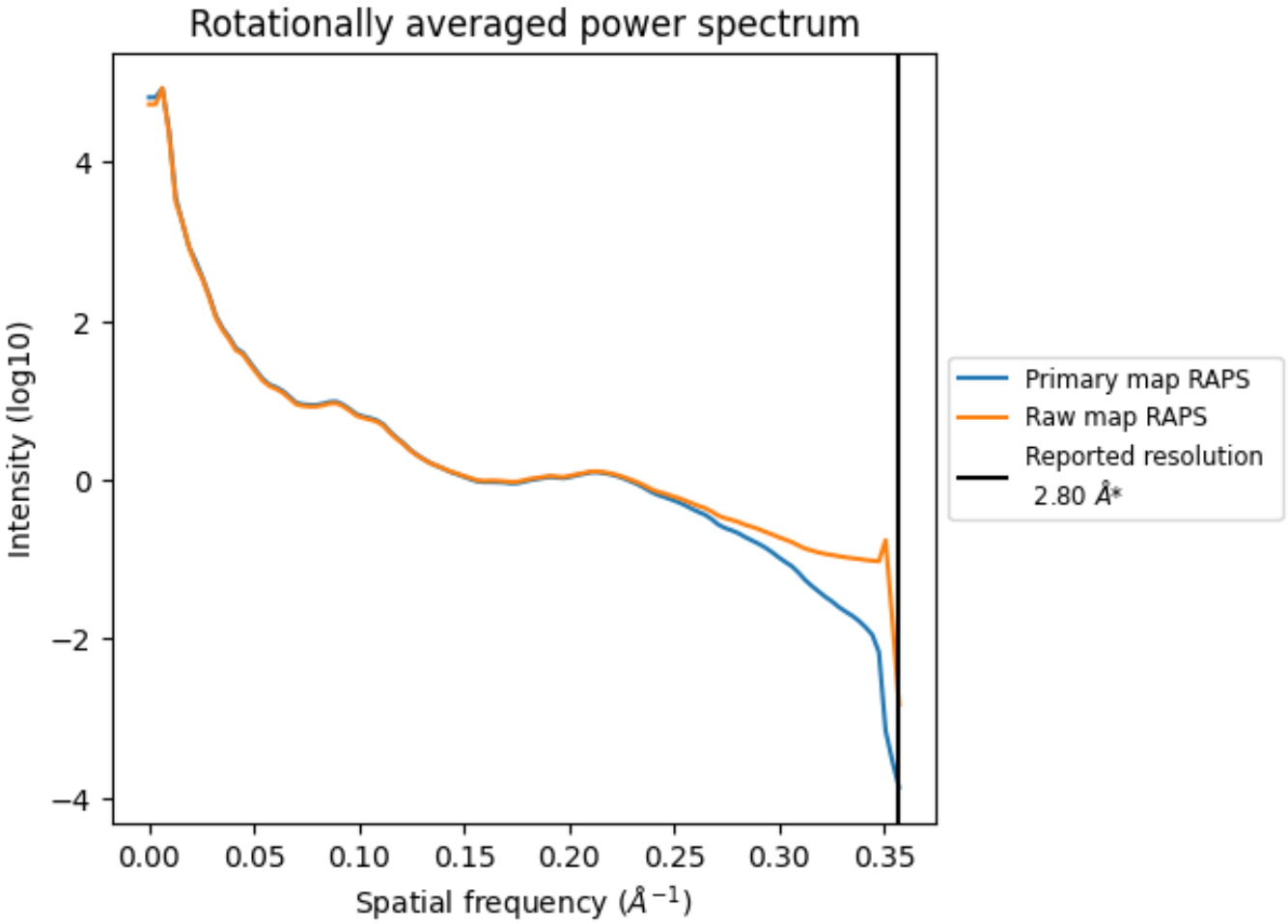
7.2 Volume estimate



The volume at the recommended contour level is 588 nm^3; this corresponds to an approximate mass of 531 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)

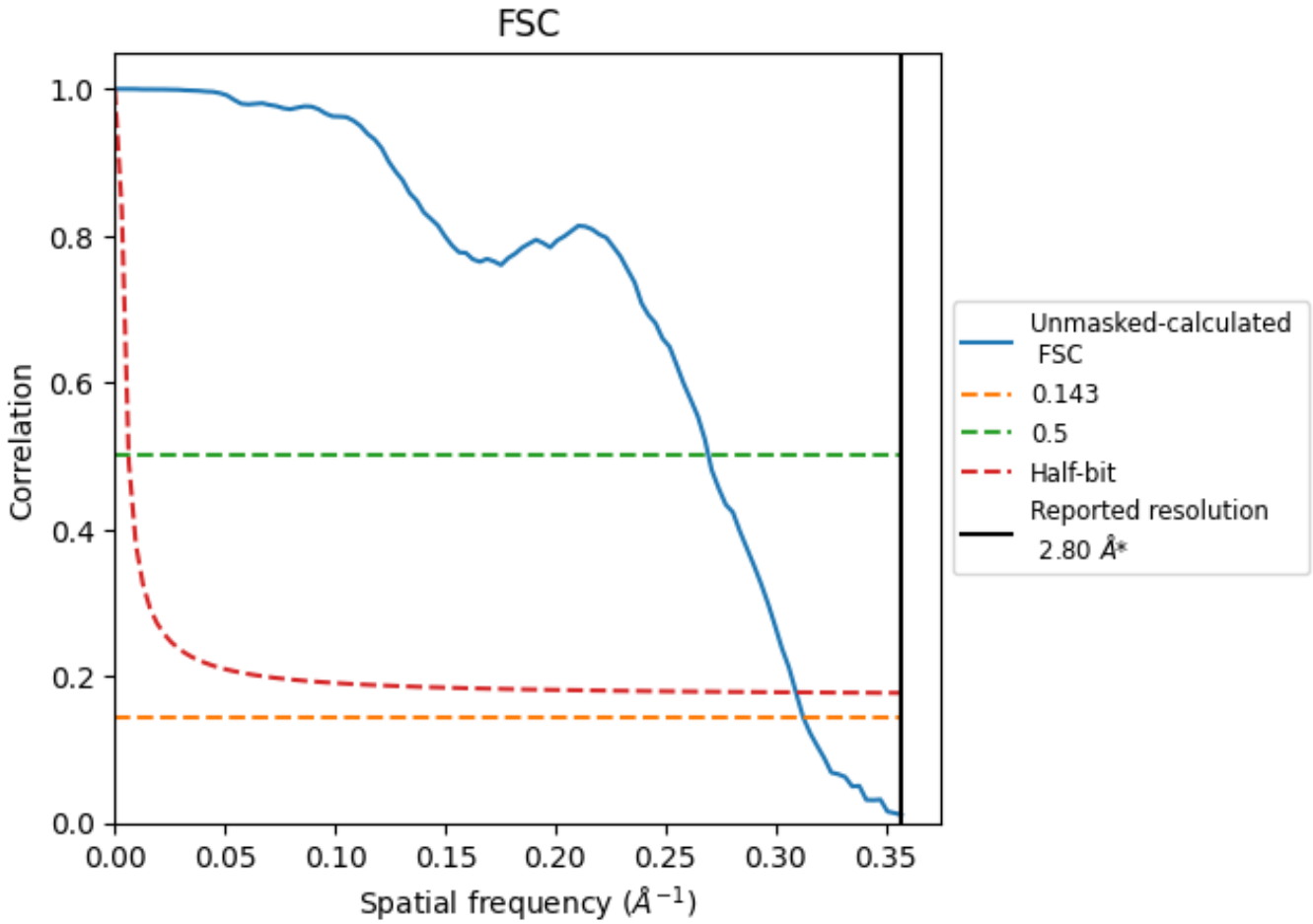


*Reported resolution corresponds to spatial frequency of 0.357 Å^{-1}

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)

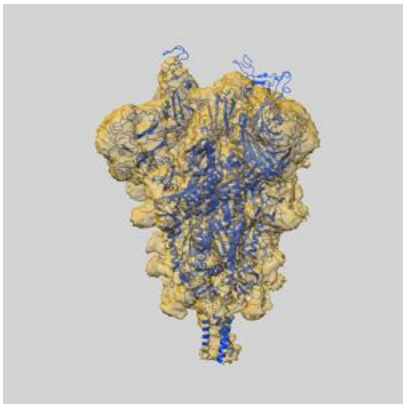
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.80	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.20	3.71	3.23

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

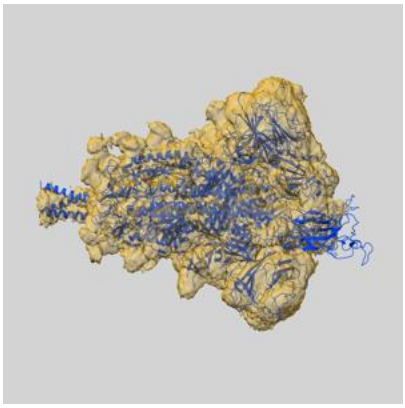
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-51279 and PDB model 9GDX. Per-residue inclusion information can be found in section 3 on page 12.

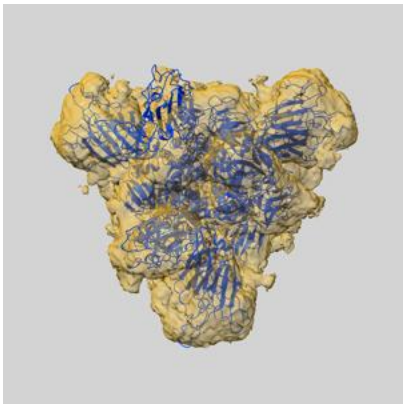
9.1 Map-model overlay



X



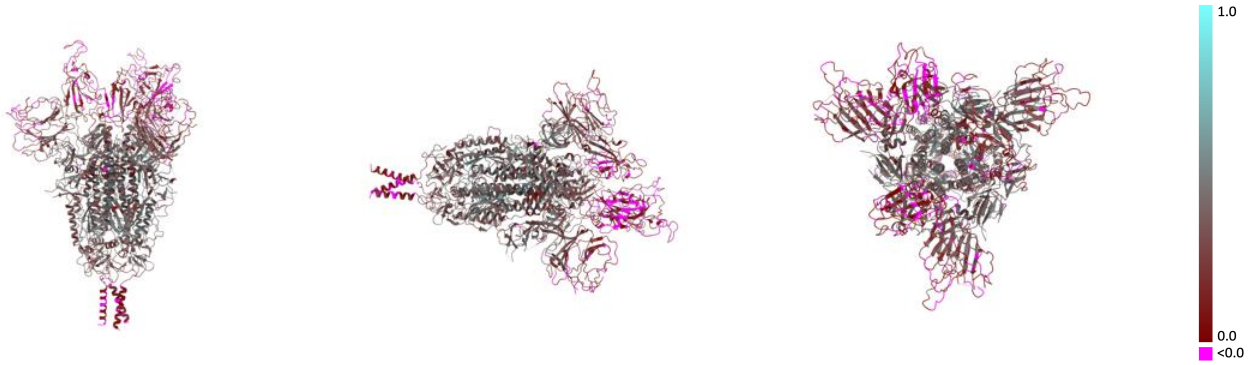
Y



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.

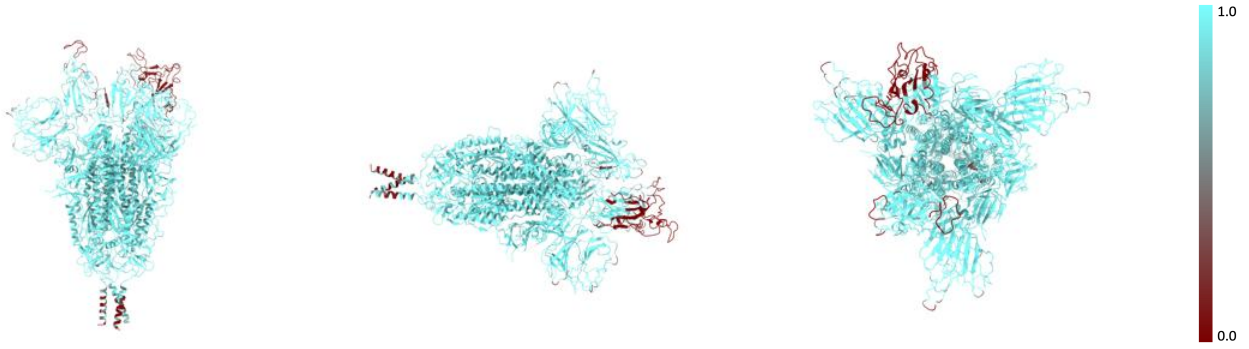
9.2 Q-score mapped to coordinate model (i)



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.

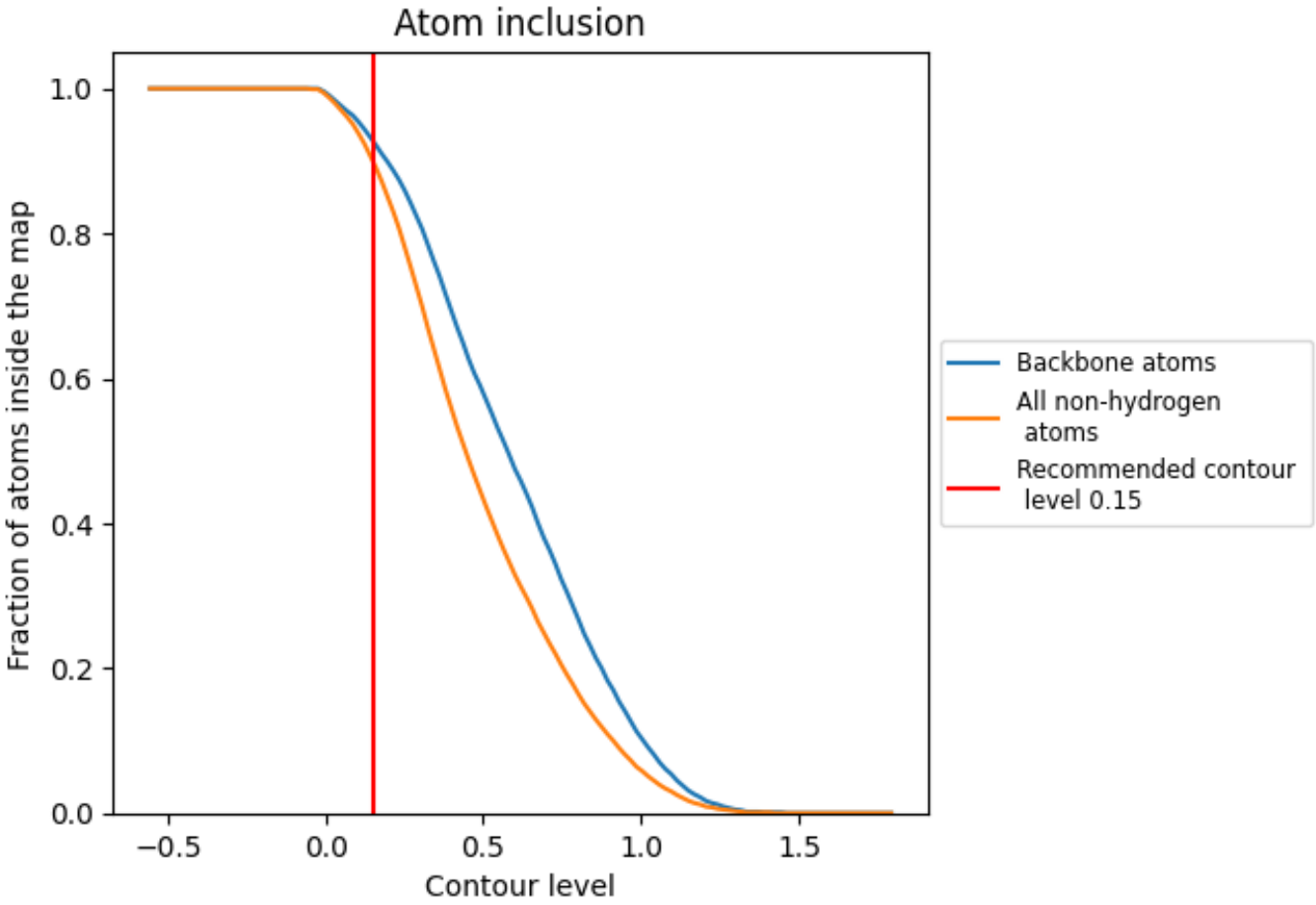
9.3 Atom inclusion mapped to coordinate model (i)



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, 93% of all backbone atoms, 90% 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	0.9000	0.2850
A	0.9220	0.2820
B	0.9440	0.2910
C	0.8350	0.2830