Full wwPDB X-ray Structure Validation Report ⓘ

Aug 22, 2023 – 06:14 AM EDT

PDB ID	:	2Q41
Title	:	Ensemble refinement of the protein crystal structure of spermidine synthase from Arabidopsis thaliana gene At1g23820
Authors	:	Levin, E.J.; Kondrashov, D.A.; Wesenberg, G.E.; Phillips Jr., G.N.; Center for Eukaryotic Structural Genomics (CESG)
Deposited on	:	2007-05-31
Resolution	:	2.70 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp
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:

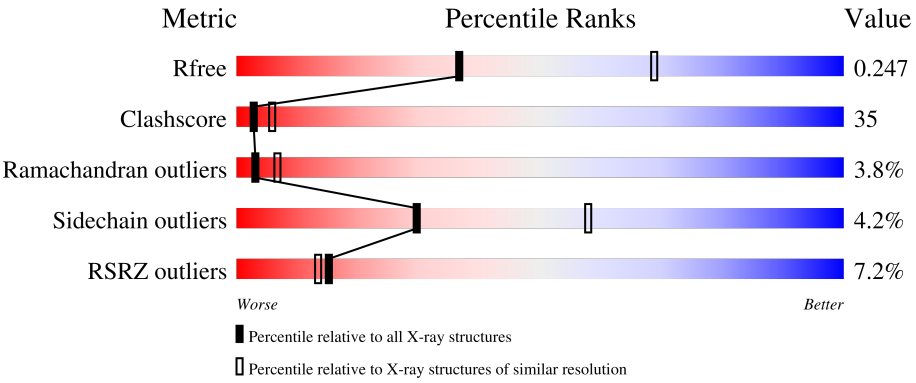
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1-A	334	7% 40% 43% · 13%
1	1-B	334	3% 47% 36% · 15%
1	1-C	334	11% 40% 43% · 13%
1	1-D	334	4% 43% 38% · 15%
1	2-A	334	7% 35% 48% · 13%

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Mol	Chain	Length	Quality of chain
1	2-B	334	3% 39% 43% 15%
1	2-C	334	11% 39% 44% 13%
1	2-D	334	4% 47% 35% 15%
1	3-A	334	7% 38% 44% 13%
1	3-B	334	3% 36% 44% 5% 15%
1	3-C	334	11% 33% 47% 6% 13%
1	3-D	334	4% 45% 39% 15%
1	4-A	334	7% 36% 46% 5% 13%
1	4-B	334	3% 41% 40% 5% 15%
1	4-C	334	11% 38% 43% 5% 13%
1	4-D	334	4% 40% 42% 15%
1	5-A	334	7% 34% 47% 6% 13%
1	5-B	334	3% 48% 33% 15%
1	5-C	334	11% 42% 41% 13%
1	5-D	334	4% 42% 38% 5% 15%
1	6-A	334	7% 33% 48% 6% 13%
1	6-B	334	3% 38% 43% 15%
1	6-C	334	11% 36% 46% 5% 13%
1	6-D	334	4% 41% 41% 15%
1	7-A	334	7% 28% 51% 7% 13%
1	7-B	334	3% 42% 39% 15%
1	7-C	334	11% 37% 46% 13%
1	7-D	334	4% 38% 44% 15%
1	8-A	334	7% 38% 44% 5% 13%
1	8-B	334	3% 38% 41% 5% 15%

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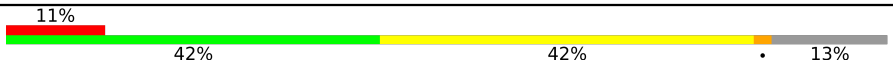
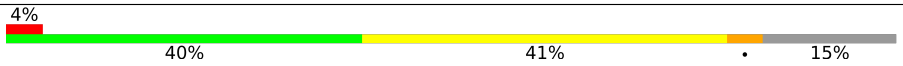
Mol	Chain	Length	Quality of chain
1	8-C	334	
1	8-D	334	

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 75520 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Spermidine synthase 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	1-A	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	2-A	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	3-A	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	4-A	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	5-A	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	6-A	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	7-A	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	8-A	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	1-B	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	2-B	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	3-B	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	4-B	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	5-B	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	6-B	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	7-B	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	8-B	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	1-C	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	2-C	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	3-C	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	4-C	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	5-C	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	6-C	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	7-C	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	8-C	290	Total	C	N	O	S	Se	0	0	0
			2234	1433	361	426	7	7			
1	1-D	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	2-D	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	3-D	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	4-D	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	5-D	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	6-D	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	7-D	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			
1	8-D	285	Total	C	N	O	S	Se	0	0	0
			2198	1417	354	412	8	7			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	SER	-	expression tag	UNP Q9ZUB3
A	26	MSE	MET	modified residue	UNP Q9ZUB3
A	51	MSE	MET	modified residue	UNP Q9ZUB3
A	54	MSE	MET	modified residue	UNP Q9ZUB3
A	109	MSE	MET	modified residue	UNP Q9ZUB3
A	149	MSE	MET	modified residue	UNP Q9ZUB3
A	155	MSE	MET	modified residue	UNP Q9ZUB3

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Chain	Residue	Modelled	Actual	Comment	Reference
A	242	MSE	MET	modified residue	UNP Q9ZUB3
A	278	MSE	MET	modified residue	UNP Q9ZUB3
B	1	SER	-	expression tag	UNP Q9ZUB3
B	26	MSE	MET	modified residue	UNP Q9ZUB3
B	51	MSE	MET	modified residue	UNP Q9ZUB3
B	54	MSE	MET	modified residue	UNP Q9ZUB3
B	109	MSE	MET	modified residue	UNP Q9ZUB3
B	149	MSE	MET	modified residue	UNP Q9ZUB3
B	155	MSE	MET	modified residue	UNP Q9ZUB3
B	242	MSE	MET	modified residue	UNP Q9ZUB3
B	278	MSE	MET	modified residue	UNP Q9ZUB3
C	1	SER	-	expression tag	UNP Q9ZUB3
C	26	MSE	MET	modified residue	UNP Q9ZUB3
C	51	MSE	MET	modified residue	UNP Q9ZUB3
C	54	MSE	MET	modified residue	UNP Q9ZUB3
C	109	MSE	MET	modified residue	UNP Q9ZUB3
C	149	MSE	MET	modified residue	UNP Q9ZUB3
C	155	MSE	MET	modified residue	UNP Q9ZUB3
C	242	MSE	MET	modified residue	UNP Q9ZUB3
C	278	MSE	MET	modified residue	UNP Q9ZUB3
D	1	SER	-	expression tag	UNP Q9ZUB3
D	26	MSE	MET	modified residue	UNP Q9ZUB3
D	51	MSE	MET	modified residue	UNP Q9ZUB3
D	54	MSE	MET	modified residue	UNP Q9ZUB3
D	109	MSE	MET	modified residue	UNP Q9ZUB3
D	149	MSE	MET	modified residue	UNP Q9ZUB3
D	155	MSE	MET	modified residue	UNP Q9ZUB3
D	242	MSE	MET	modified residue	UNP Q9ZUB3
D	278	MSE	MET	modified residue	UNP Q9ZUB3

- Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	1-A	130	Total O 130 130	0	0
2	2-A	137	Total O 137 137	0	0
2	3-A	135	Total O 135 135	0	0
2	4-A	134	Total O 134 134	0	0
2	5-A	134	Total O 134 134	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	6-A	135	Total O 135 135	0	0
2	7-A	128	Total O 128 128	0	0
2	8-A	135	Total O 135 135	0	0
2	1-B	177	Total O 177 177	0	0
2	2-B	179	Total O 179 179	0	0
2	3-B	175	Total O 175 175	0	0
2	4-B	173	Total O 173 173	0	0
2	5-B	171	Total O 171 171	0	0
2	6-B	176	Total O 176 176	0	0
2	7-B	177	Total O 177 177	0	0
2	8-B	173	Total O 173 173	0	0
2	1-C	135	Total O 135 135	0	0
2	2-C	129	Total O 129 129	0	0
2	3-C	132	Total O 132 132	0	0
2	4-C	135	Total O 135 135	0	0
2	5-C	138	Total O 138 138	0	0
2	6-C	132	Total O 132 132	0	0
2	7-C	133	Total O 133 133	0	0
2	8-C	133	Total O 133 133	0	0
2	1-D	134	Total O 134 134	0	0
2	2-D	131	Total O 131 131	0	0

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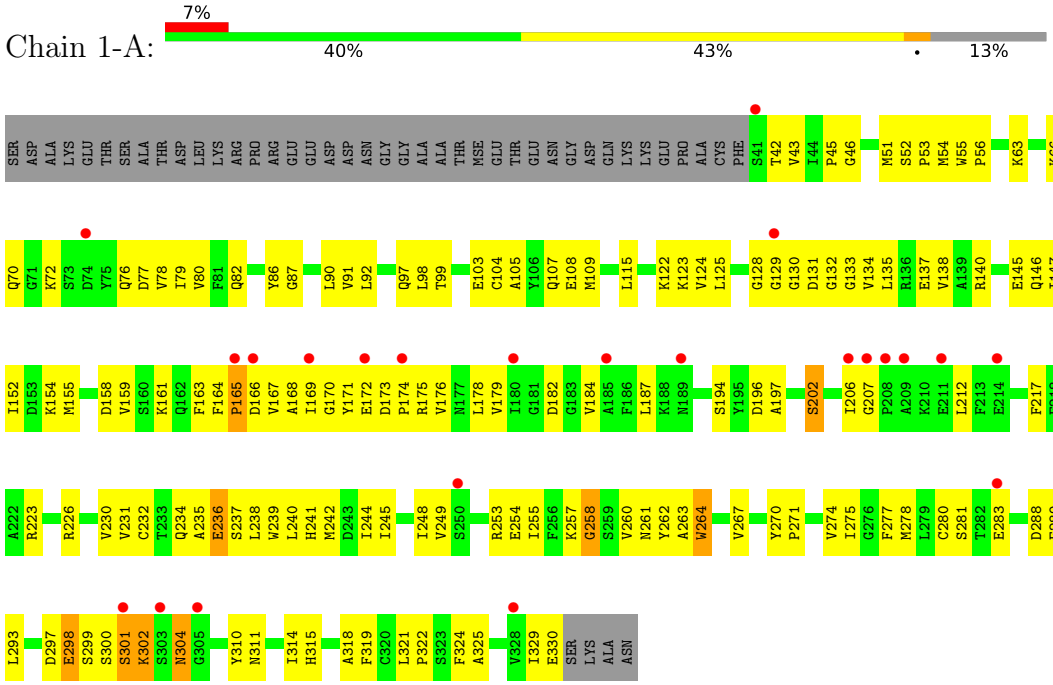
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	3-D	134	Total O 134 134	0	0
2	4-D	134	Total O 134 134	0	0
2	5-D	133	Total O 133 133	0	0
2	6-D	133	Total O 133 133	0	0
2	7-D	138	Total O 138 138	0	0
2	8-D	135	Total O 135 135	0	0

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 electron 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 dot above a residue indicates a poor fit to the electron density (RSRZ > 2). 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.

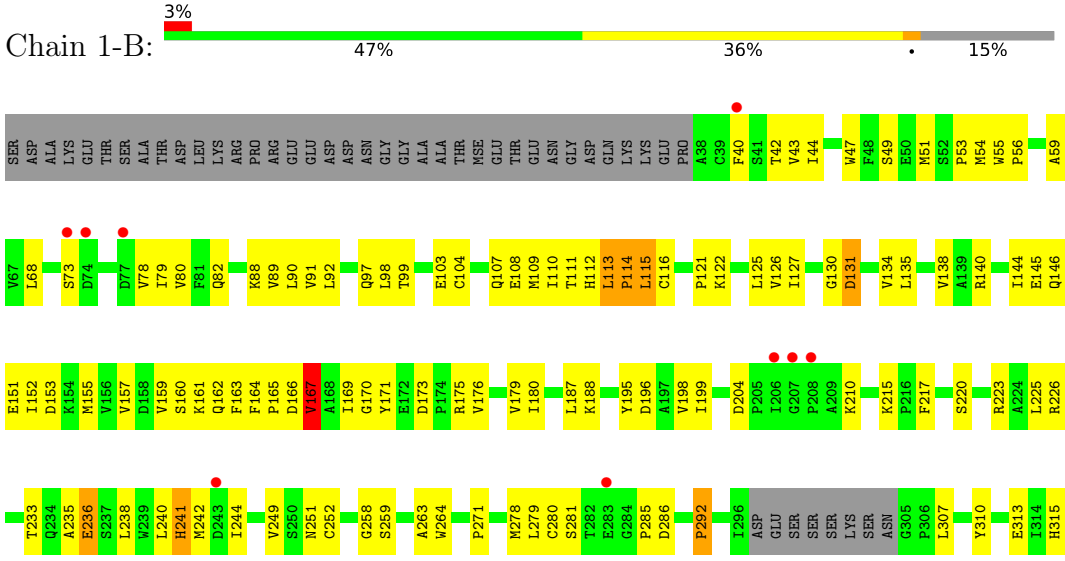
• Molecule 1: Spermidine synthase 1

Chain 1-A:



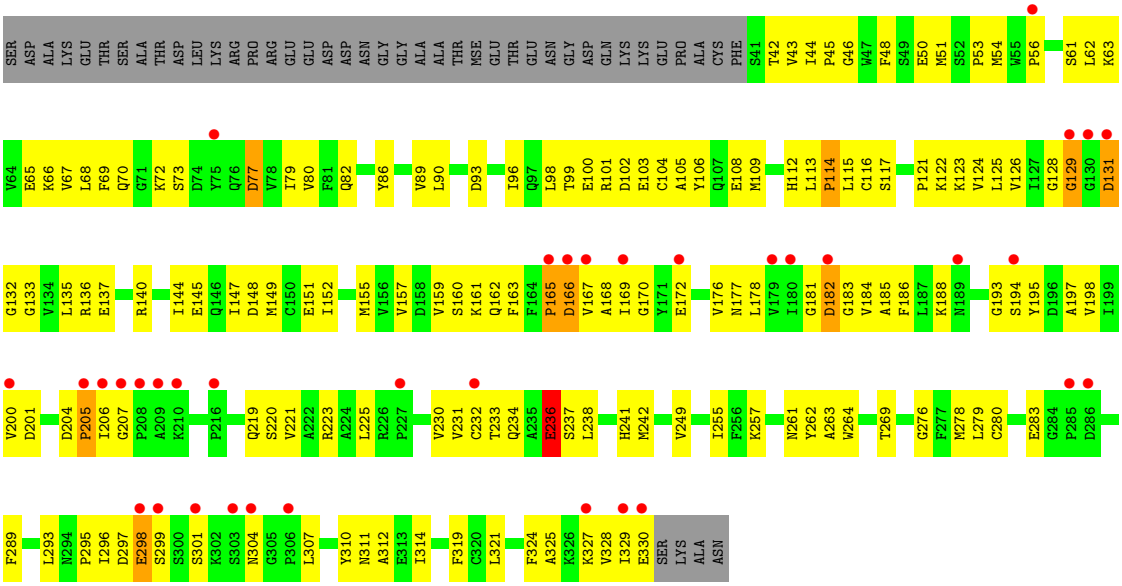
• Molecule 1: Spermidine synthase 1

Chain 1-B:



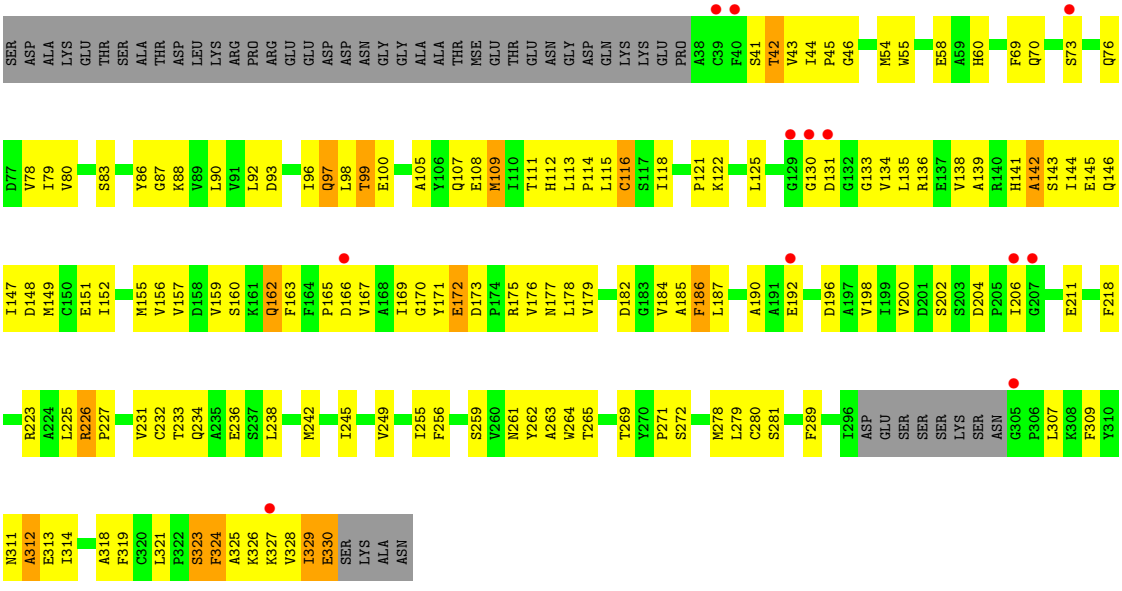
• Molecule 1: Spermidine synthase 1

Chain 1-C:



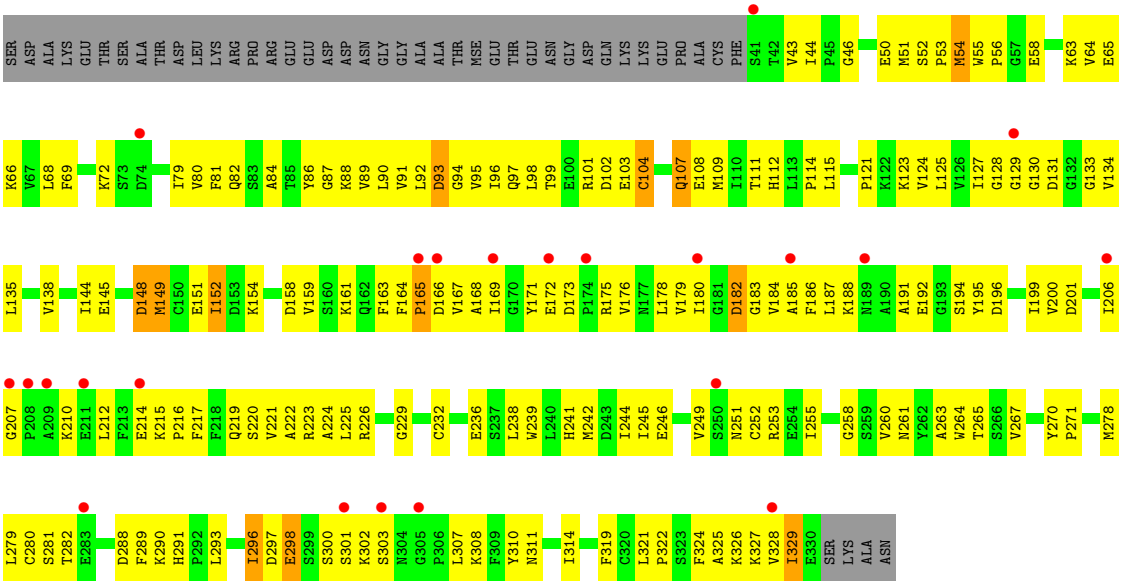
• Molecule 1: Spermidine synthase 1

Chain 1-D:



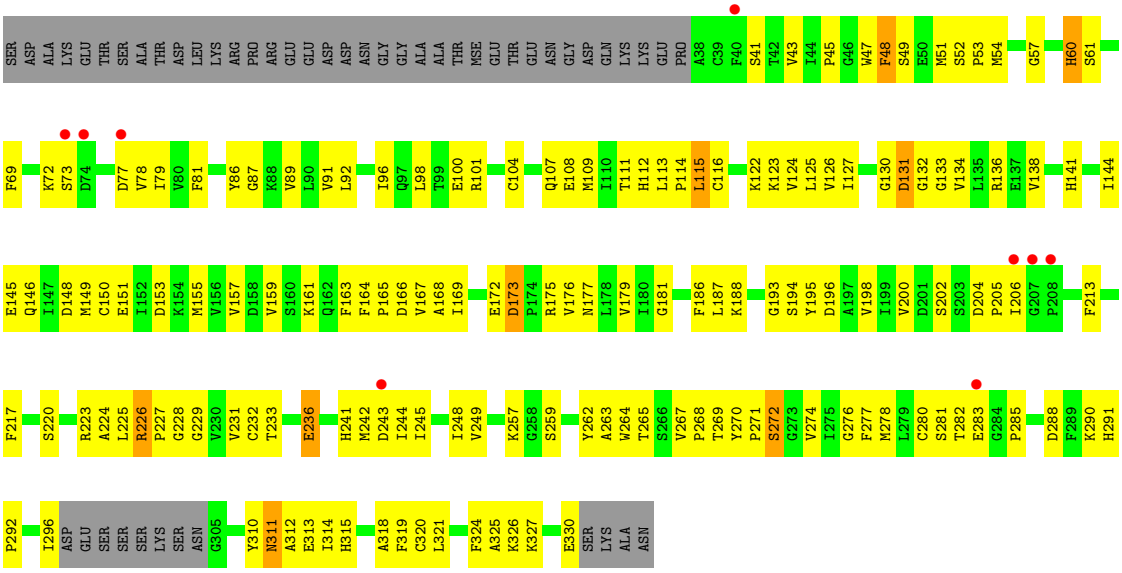
• Molecule 1: Spermidine synthase 1

Chain 2-A:



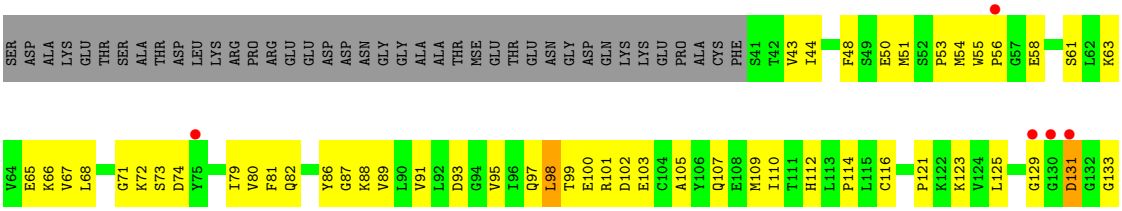
• Molecule 1: Spermidine synthase 1

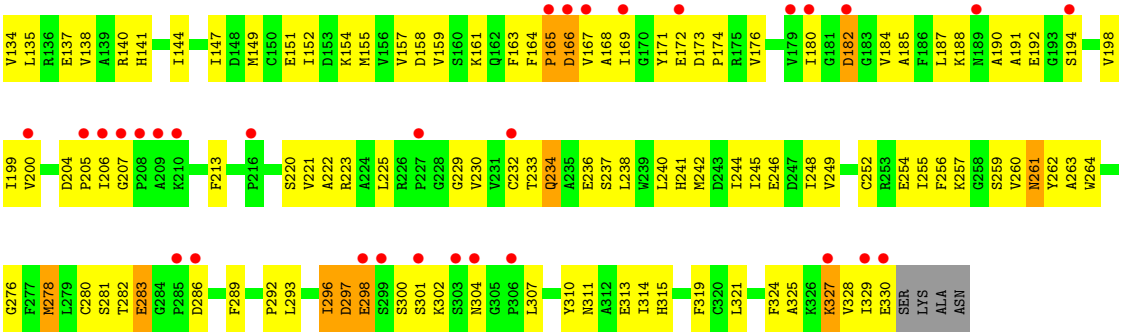
Chain 2-B:



• Molecule 1: Spermidine synthase 1

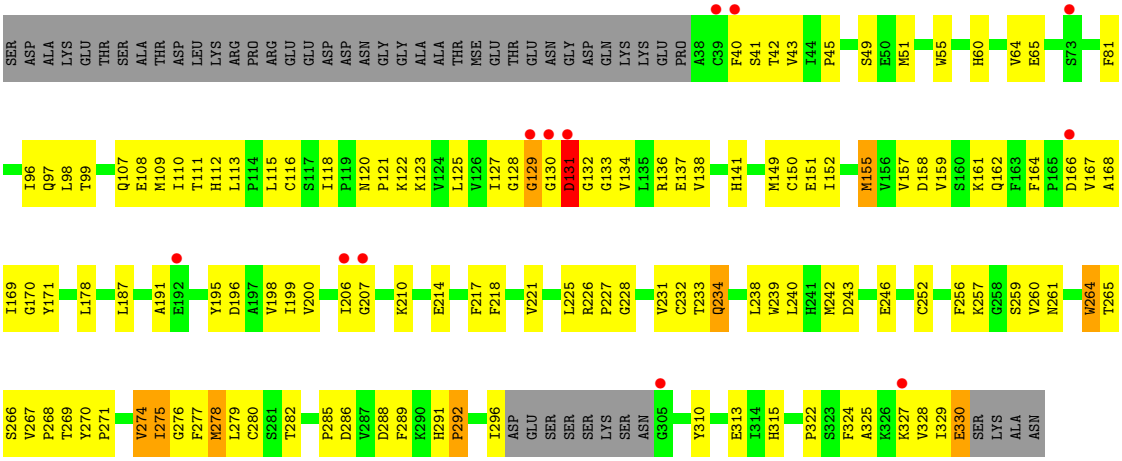
Chain 2-C:





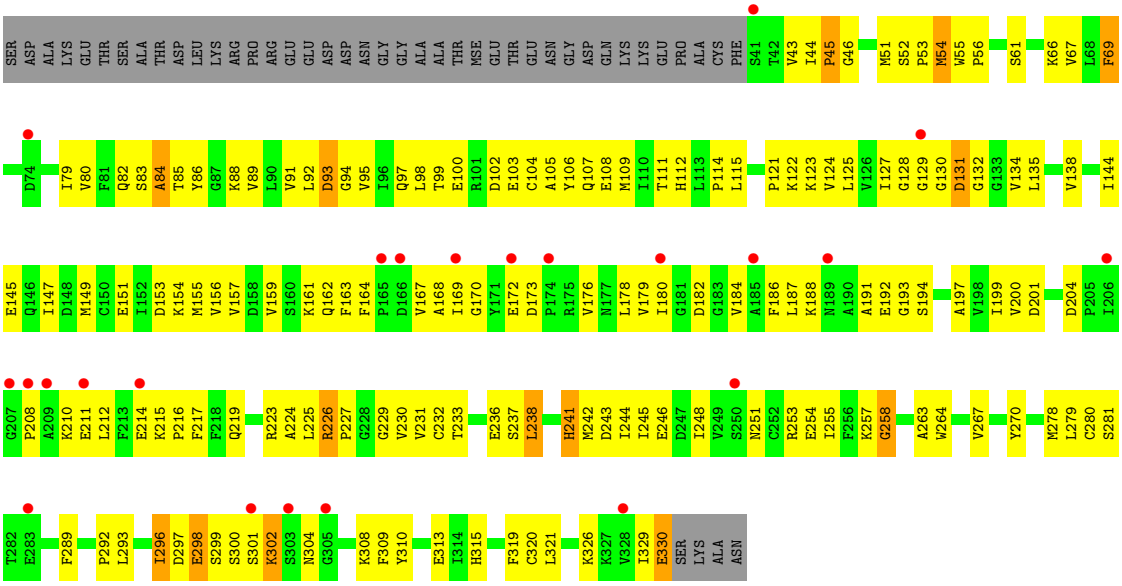
• Molecule 1: Spermidine synthase 1

Chain 2-D:



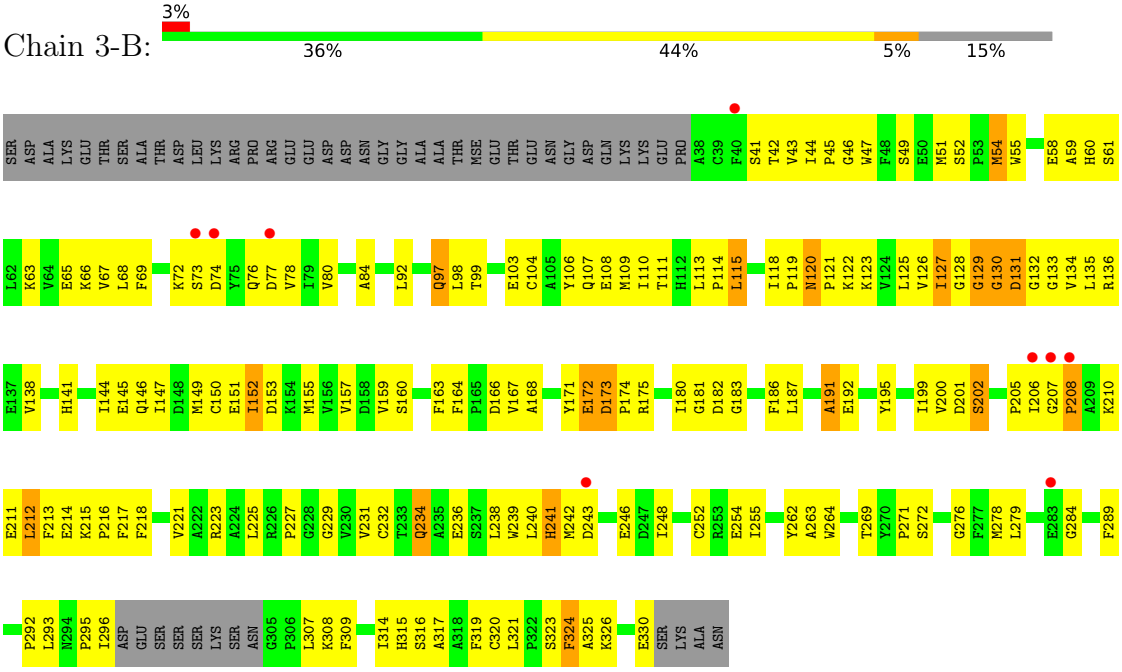
• Molecule 1: Spermidine synthase 1

Chain 3-A:



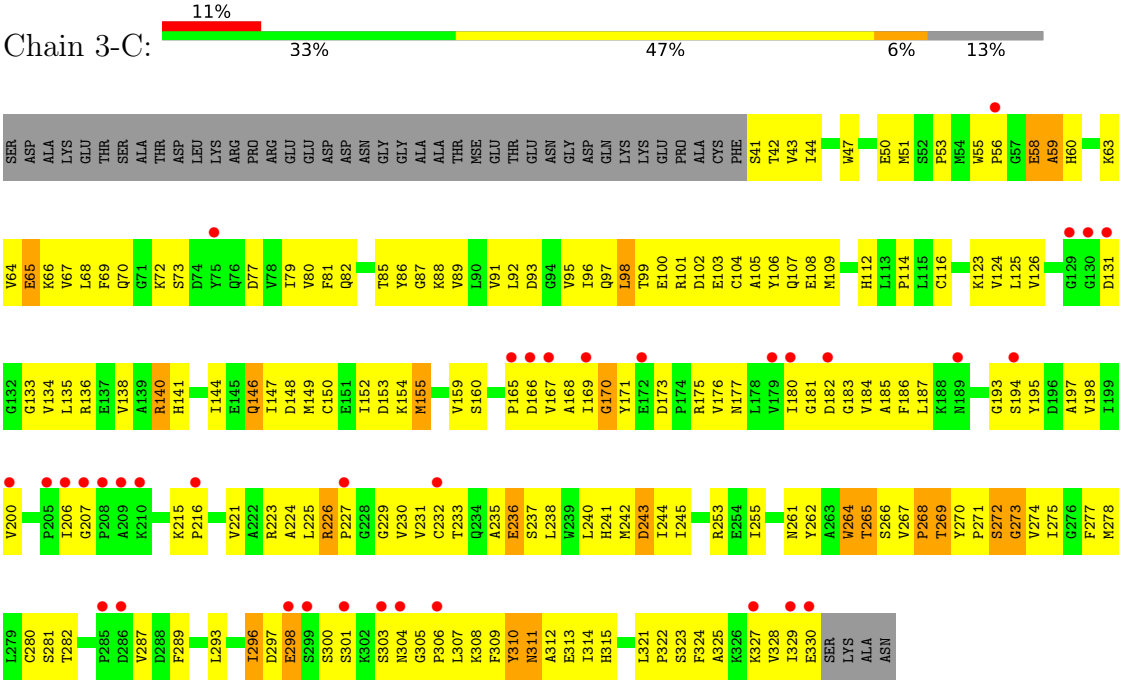
• Molecule 1: Spermidine synthase 1

Chain 3-B:



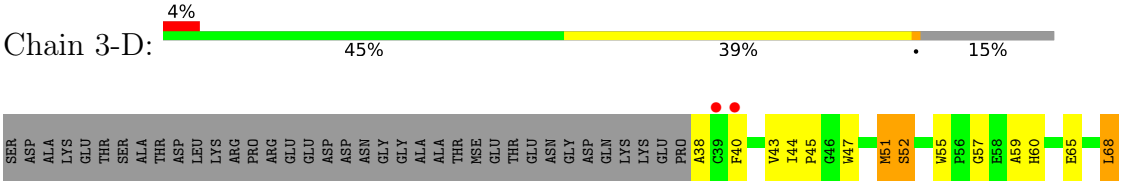
• Molecule 1: Spermidine synthase 1

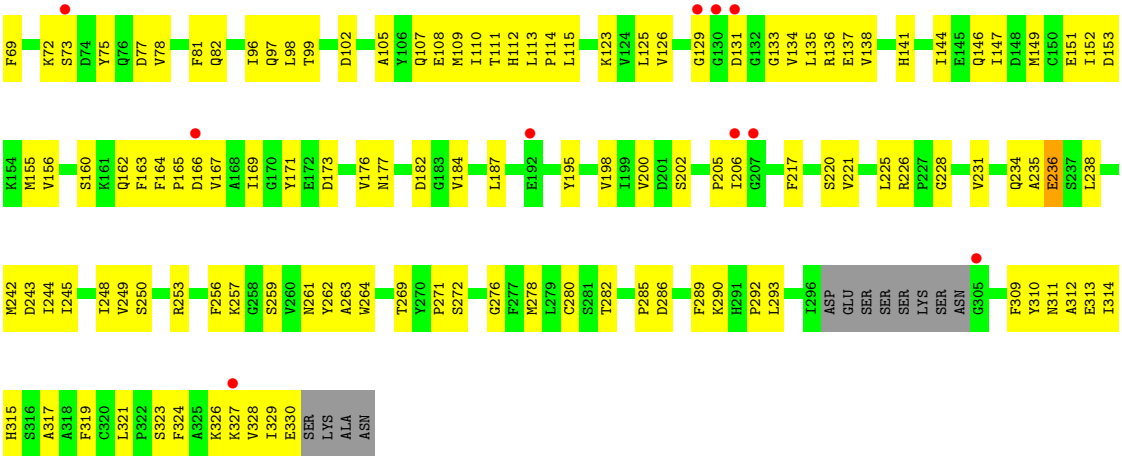
Chain 3-C:



• Molecule 1: Spermidine synthase 1

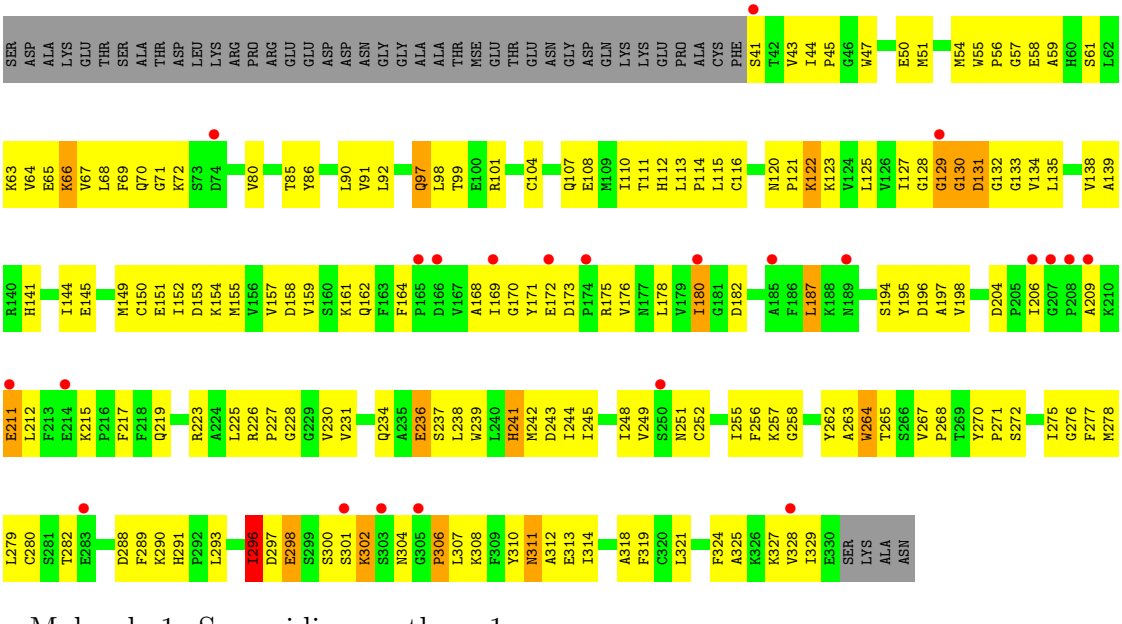
Chain 3-D:





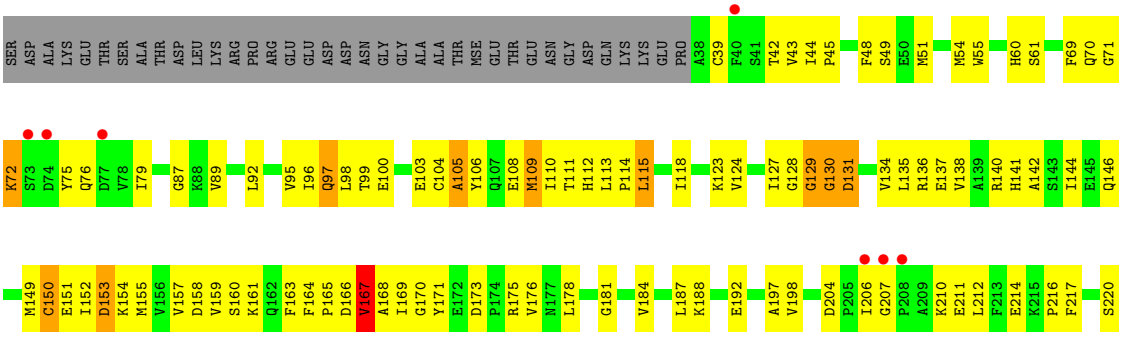
• Molecule 1: Spermidine synthase 1

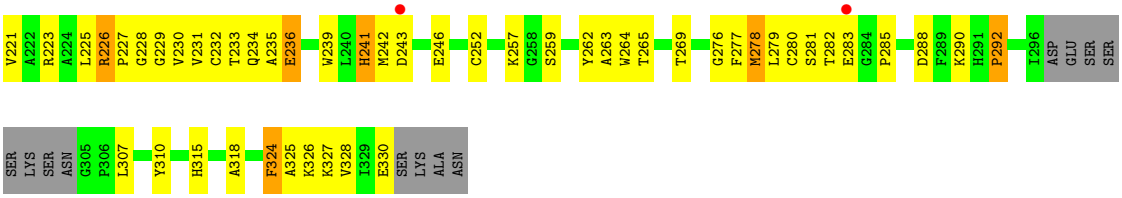
Chain 4-A:



• Molecule 1: Spermidine synthase 1

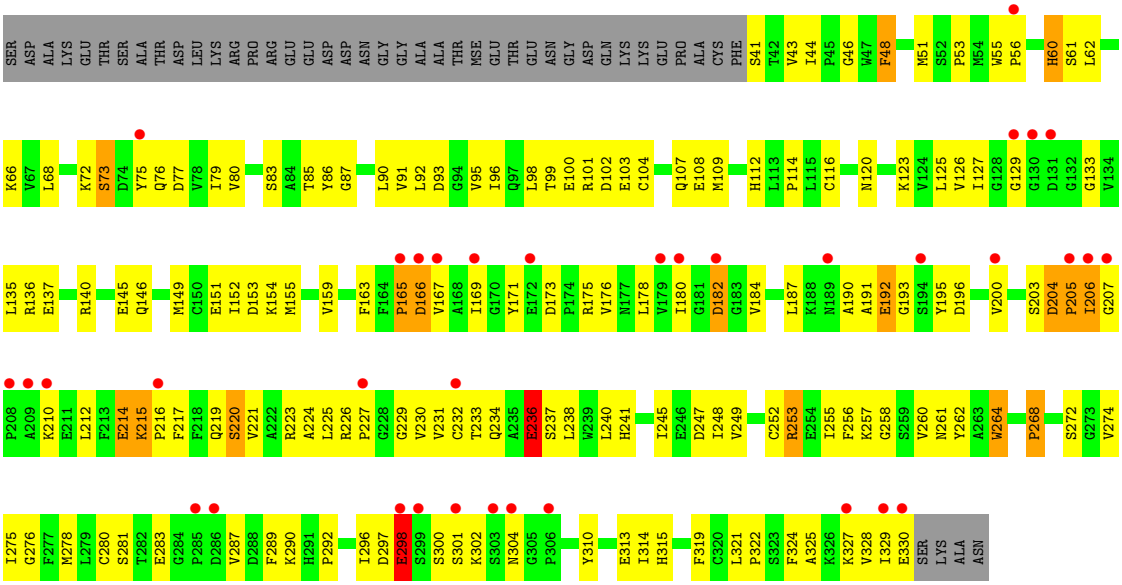
Chain 4-B:





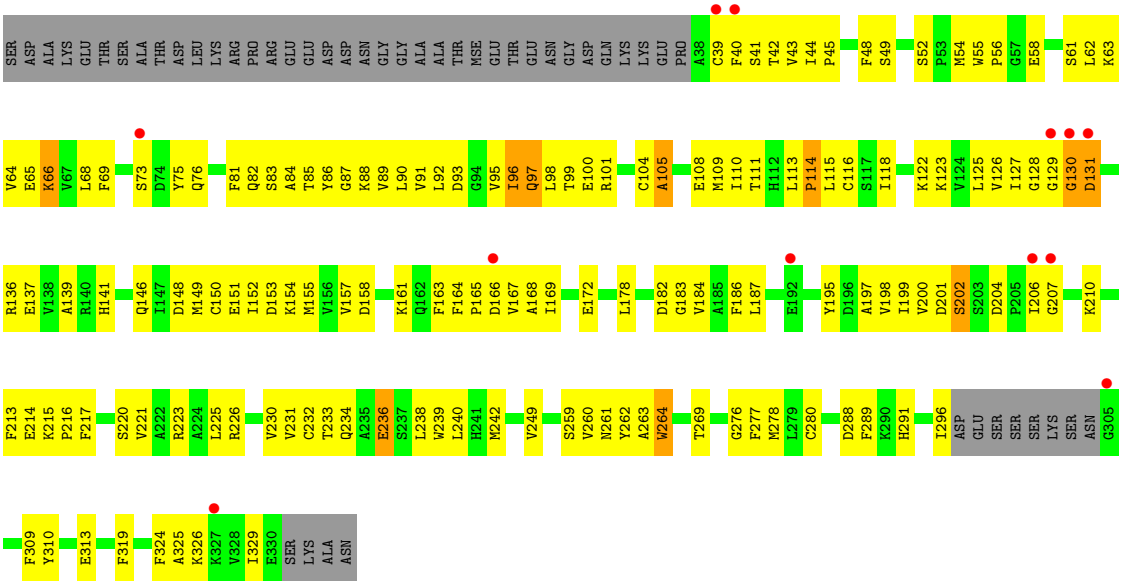
• Molecule 1: Spermidine synthase 1

Chain 4-C:



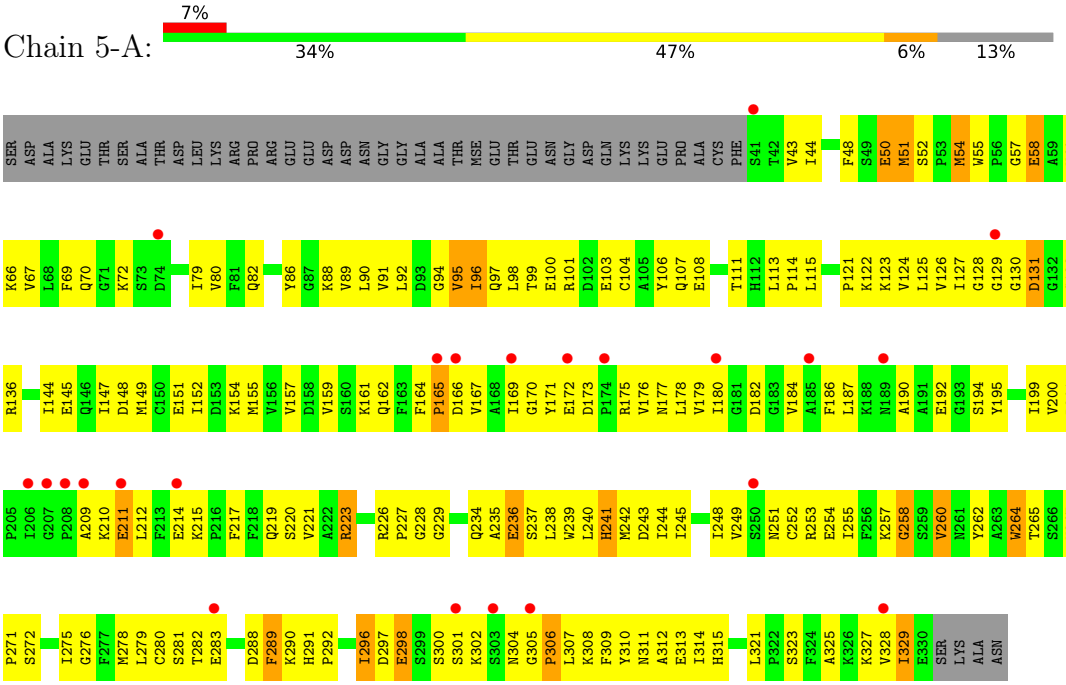
• Molecule 1: Spermidine synthase 1

Chain 4-D:



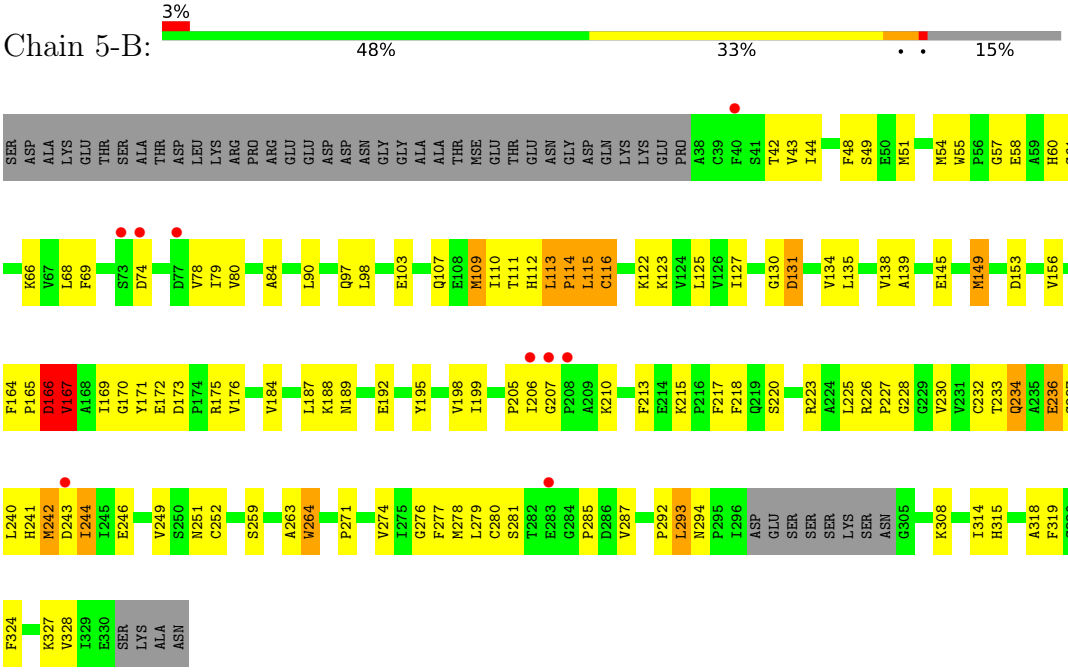
• Molecule 1: Spermidine synthase 1

Chain 5-A:



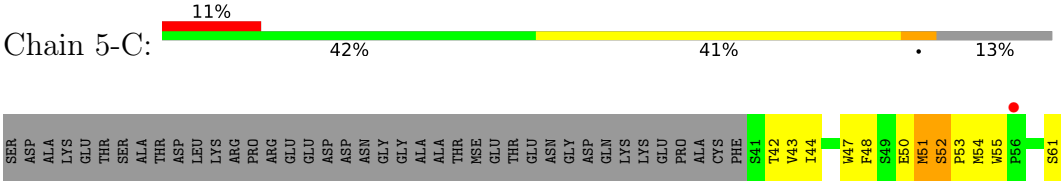
• Molecule 1: Spermidine synthase 1

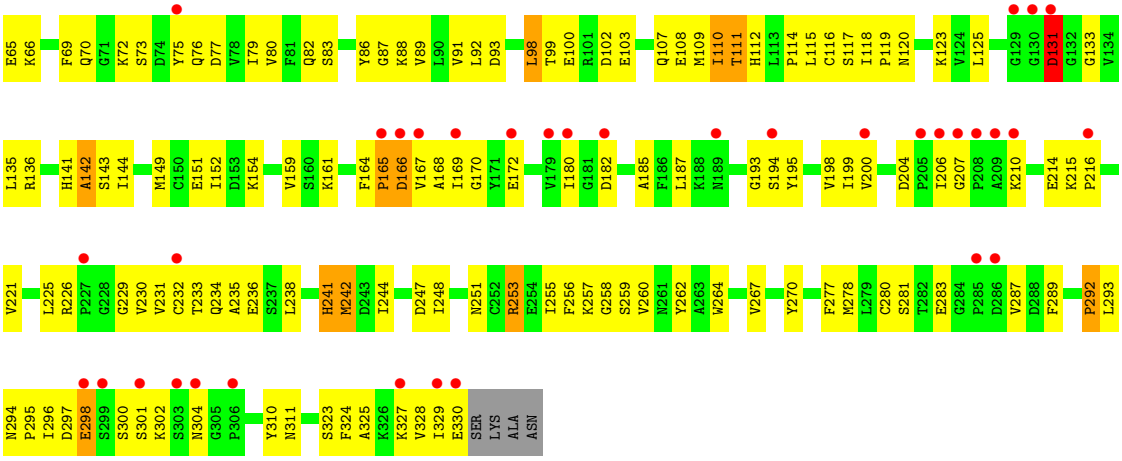
Chain 5-B:



• Molecule 1: Spermidine synthase 1

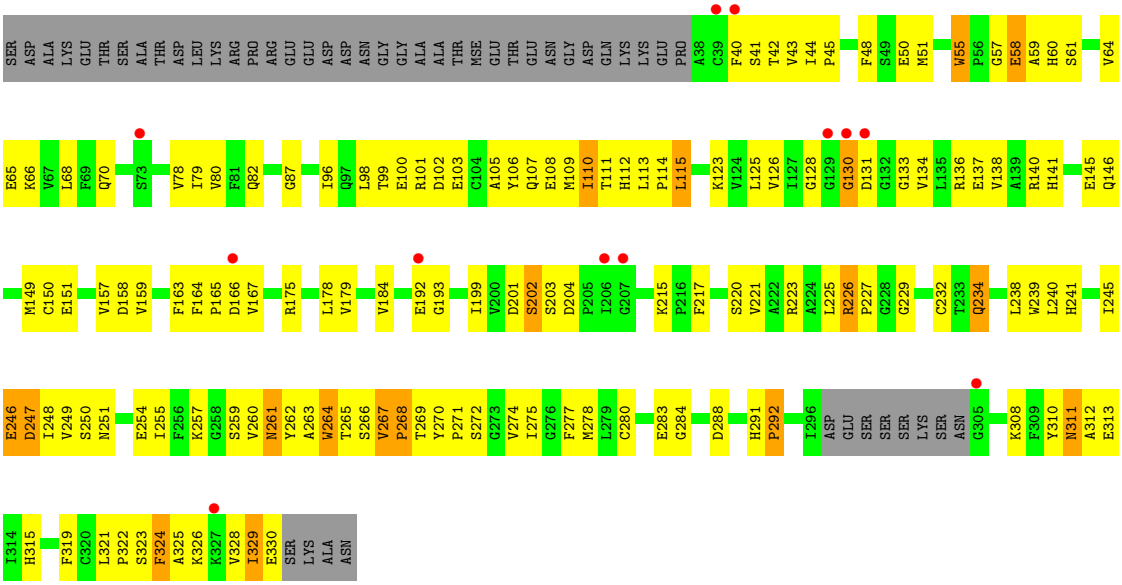
Chain 5-C:





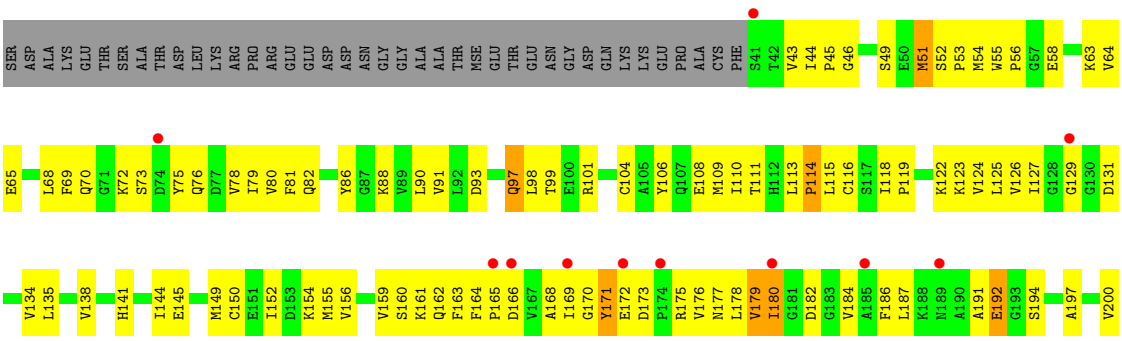
• Molecule 1: Spermidine synthase 1

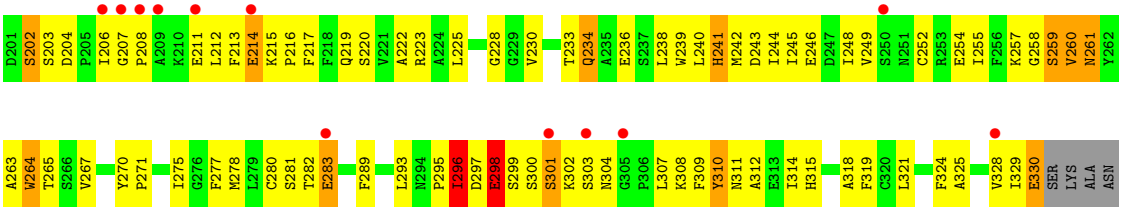
Chain 5-D:



• Molecule 1: Spermidine synthase 1

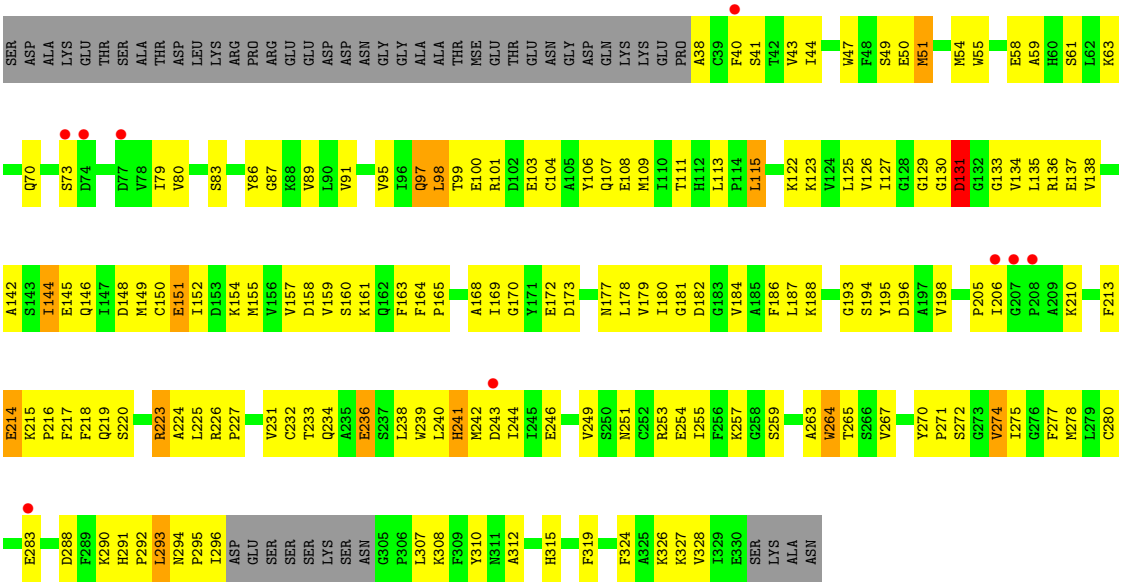
Chain 6-A:





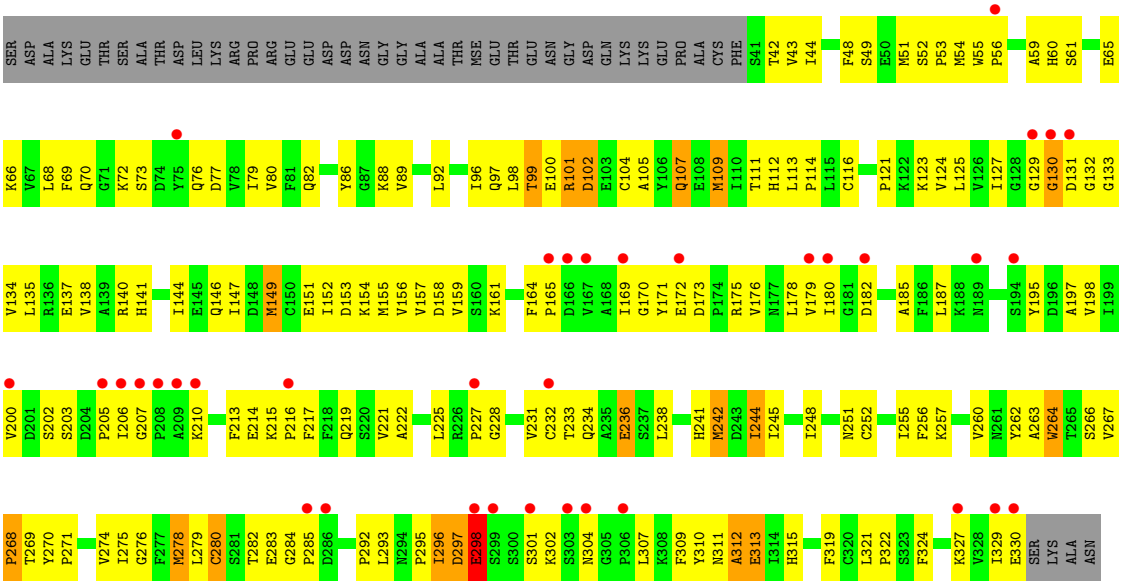
• Molecule 1: Spermidine synthase 1

Chain 6-B:



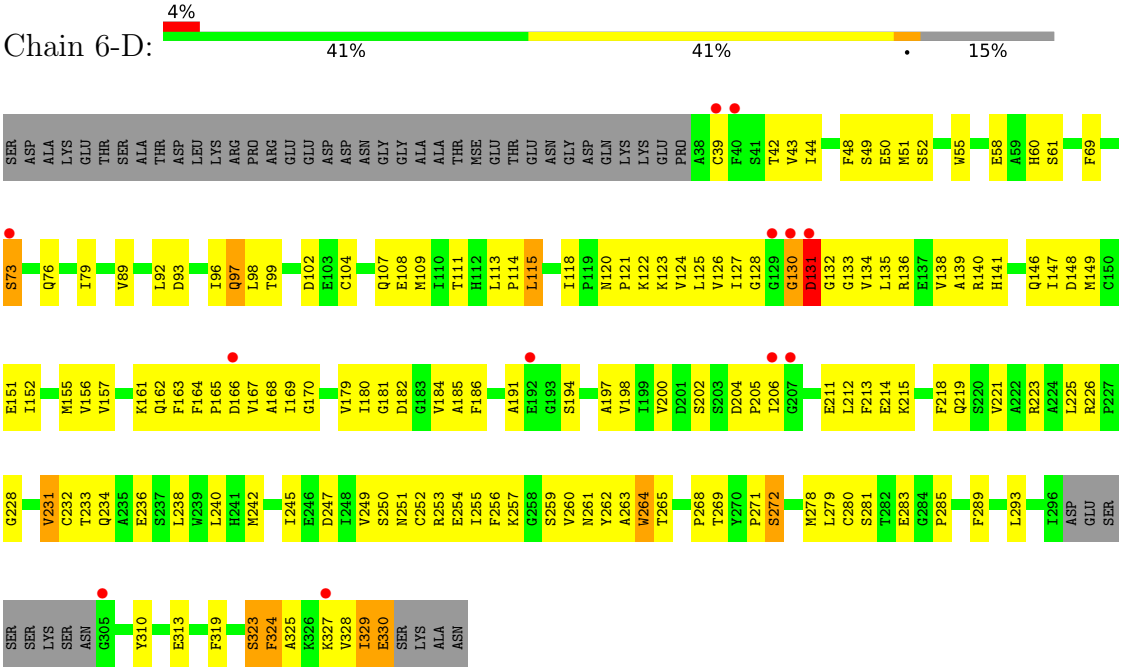
• Molecule 1: Spermidine synthase 1

Chain 6-C:



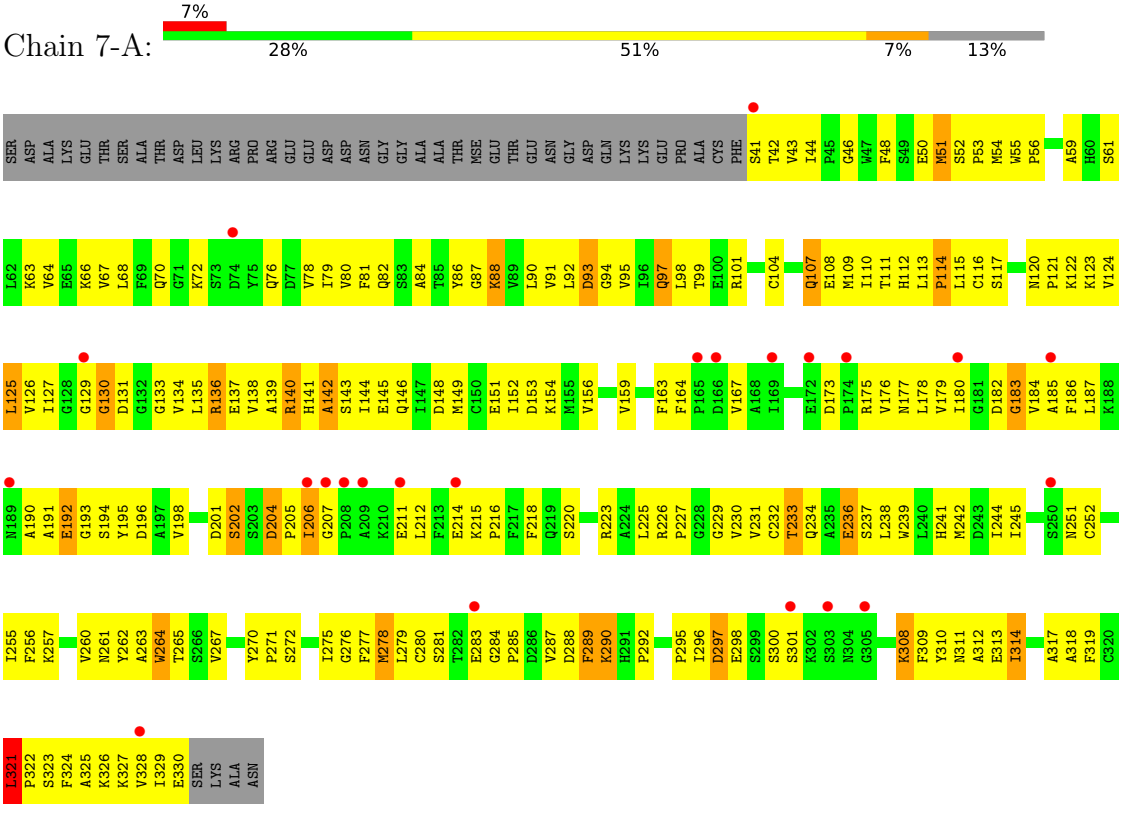
• Molecule 1: Spermidine synthase 1

Chain 6-D:



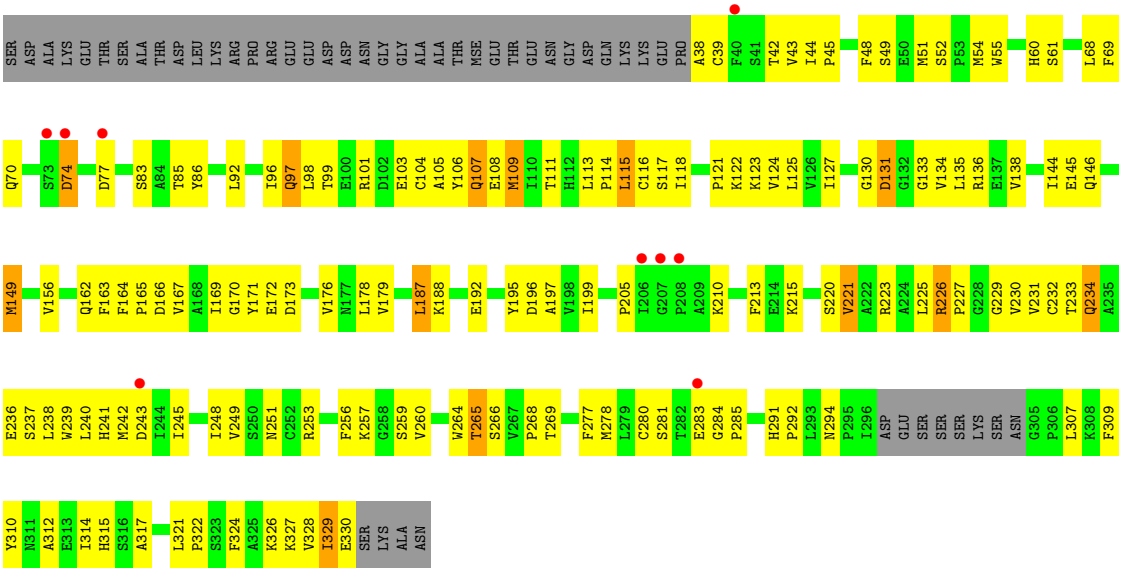
• Molecule 1: Spermidine synthase 1

Chain 7-A:

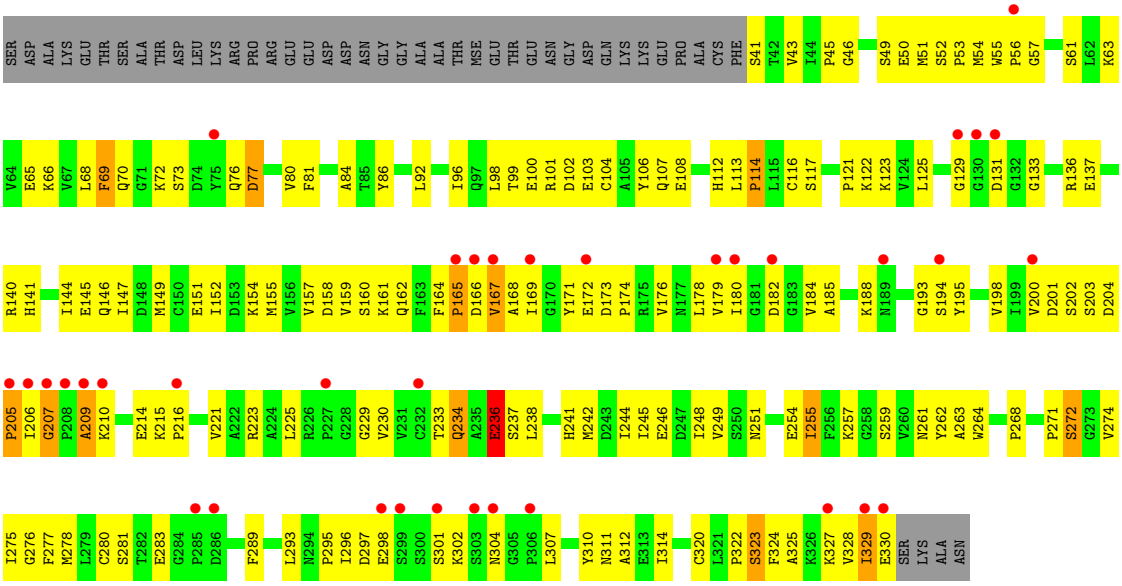


• Molecule 1: Spermidine synthase 1

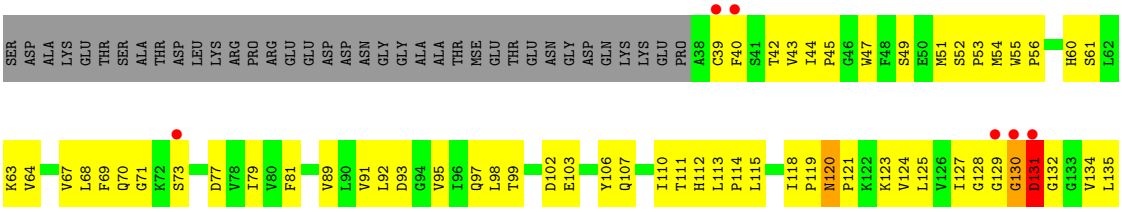
Chain 7-B:

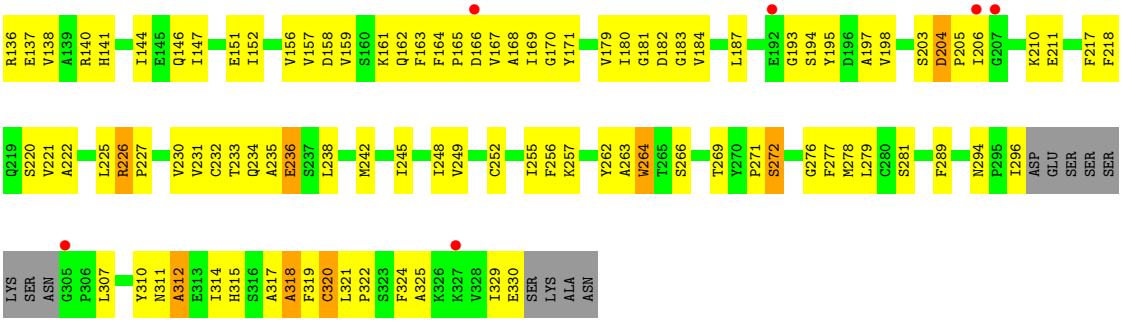


• Molecule 1: Spermidine synthase 1



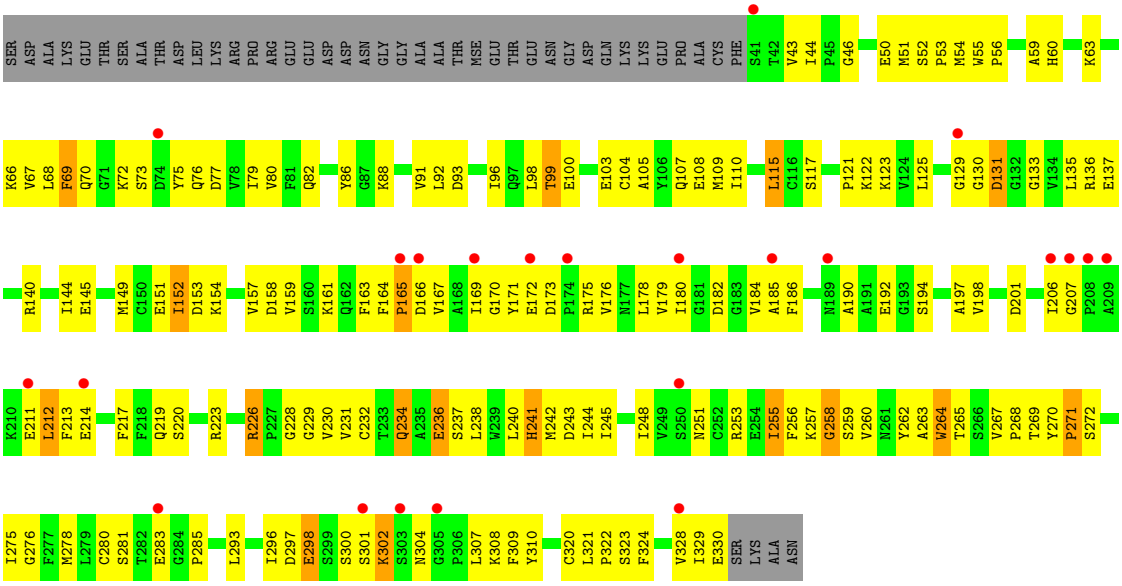
• Molecule 1: Spermidine synthase 1





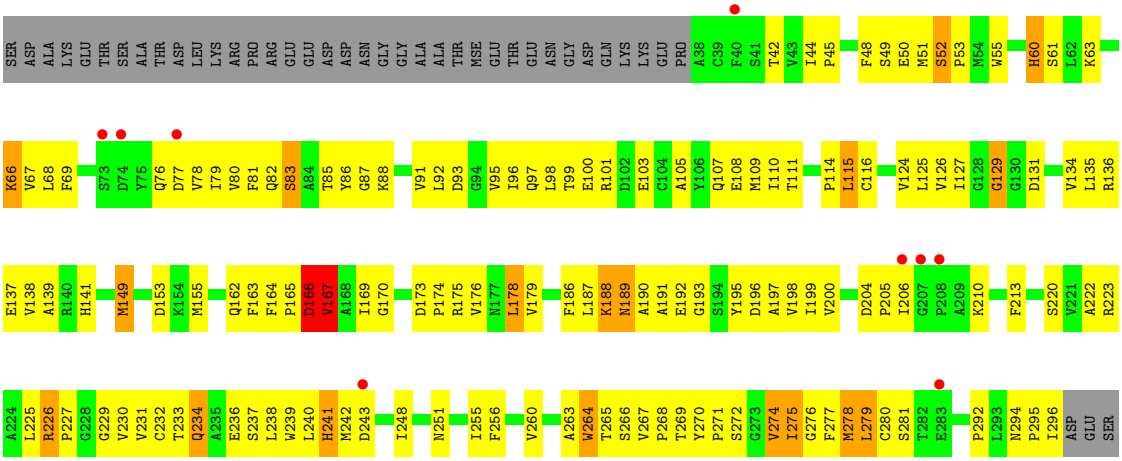
• Molecule 1: Spermidine synthase 1

Chain 8-A:



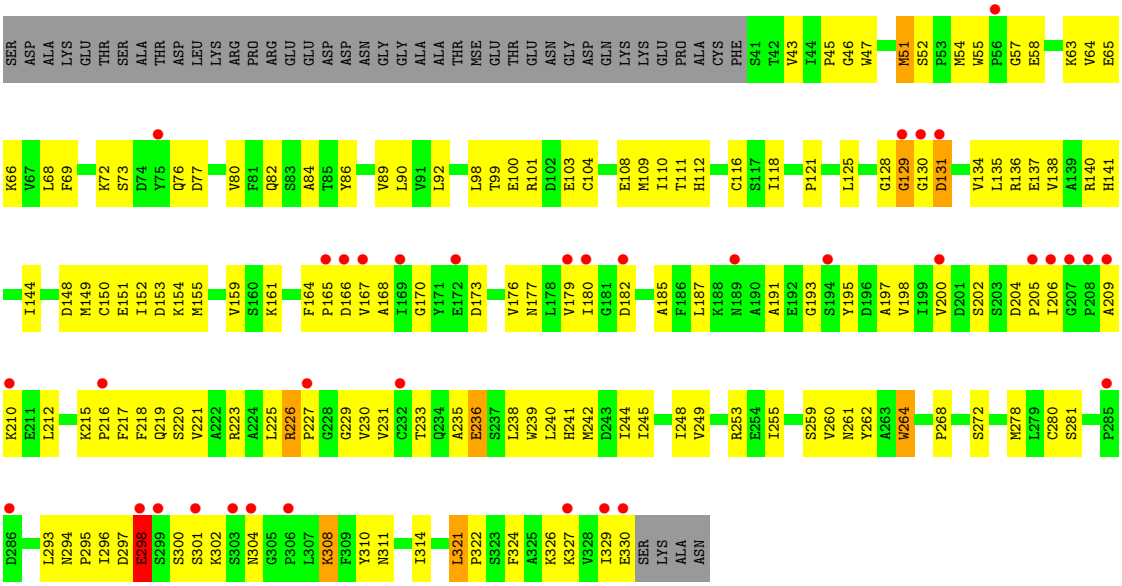
• Molecule 1: Spermidine synthase 1

Chain 8-B:



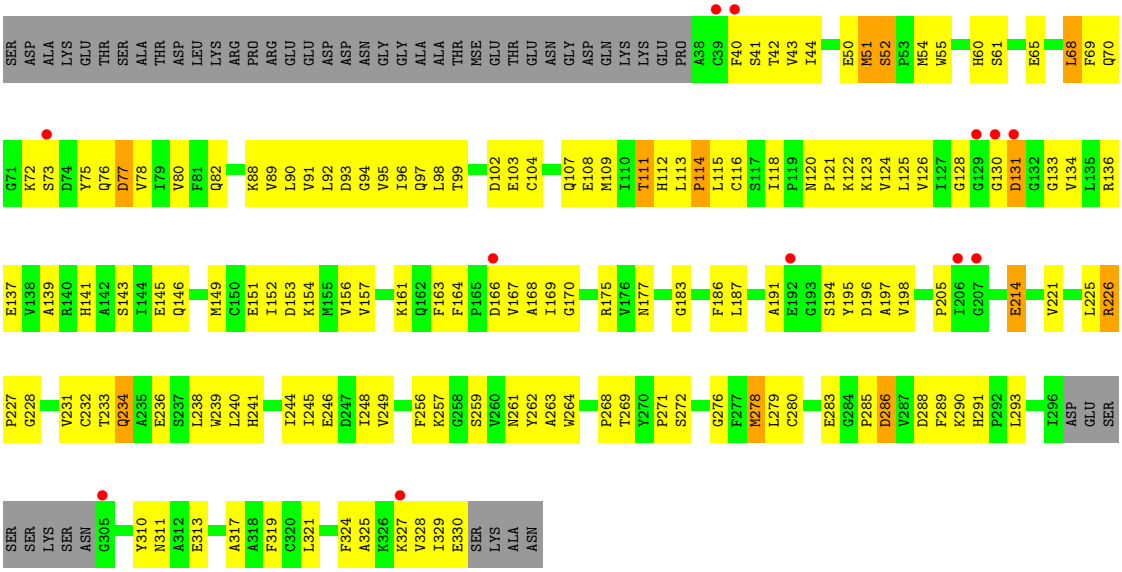
• Molecule 1: Spermidine synthase 1

Chain 8-C:



• Molecule 1: Spermidine synthase 1

Chain 8-D:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	88.81Å 95.21Å 89.16Å 90.00° 104.96° 90.00°	Depositor
Resolution (Å)	26.29 – 2.70 26.28 – 2.66	Depositor EDS
% Data completeness (in resolution range)	95.5 (26.29-2.70) 94.0 (26.28-2.66)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.37 (at 2.64Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.164 , 0.249 0.167 , 0.247	Depositor DCC
R_{free} test set	3788 reflections (9.55%)	wwPDB-VP
Wilson B-factor (Å^2)	36.7	Xtriage
Anisotropy	0.700	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 77.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.018 for l,-k,h	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	75520	wwPDB-VP
Average B, all atoms (Å^2)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.07% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1-A	0.37	0/2282	0.61	0/3089
1	1-B	0.39	0/2246	0.61	0/3040
1	1-C	0.37	0/2282	0.62	0/3089
1	1-D	0.39	0/2246	0.61	0/3040
1	2-A	0.36	0/2282	0.60	0/3089
1	2-B	0.39	0/2246	0.62	0/3040
1	2-C	0.37	0/2282	0.62	0/3089
1	2-D	0.39	0/2246	0.62	0/3040
1	3-A	0.37	0/2282	0.61	0/3089
1	3-B	0.40	0/2246	0.62	0/3040
1	3-C	0.38	0/2282	0.61	0/3089
1	3-D	0.39	0/2246	0.62	0/3040
1	4-A	0.38	0/2282	0.59	0/3089
1	4-B	0.41	0/2246	0.63	1/3040 (0.0%)
1	4-C	0.38	0/2282	0.62	0/3089
1	4-D	0.38	0/2246	0.61	0/3040
1	5-A	0.39	0/2282	0.63	0/3089
1	5-B	0.43	0/2246	0.65	1/3040 (0.0%)
1	5-C	0.40	0/2282	0.64	0/3089
1	5-D	0.41	0/2246	0.65	0/3040
1	6-A	0.40	0/2282	0.63	0/3089
1	6-B	0.41	0/2246	0.63	0/3040
1	6-C	0.39	0/2282	0.64	0/3089
1	6-D	0.40	0/2246	0.65	0/3040
1	7-A	0.38	0/2282	0.63	0/3089
1	7-B	0.40	0/2246	0.62	0/3040
1	7-C	0.41	0/2282	0.64	0/3089
1	7-D	0.41	0/2246	0.64	0/3040
1	8-A	0.39	0/2282	0.63	0/3089
1	8-B	0.41	0/2246	0.63	0/3040
1	8-C	0.41	0/2282	0.66	0/3089
1	8-D	0.41	0/2246	0.64	0/3040
All	All	0.39	0/72448	0.63	2/98064 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4-B	109	MSE	CA-CB-CG	-6.46	102.32	113.30
1	5-B	109	MSE	CB-CA-C	5.31	121.01	110.40

There are no chirality outliers.

There are no planarity outliers.

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	2234	0	2199	160	0
1	1-B	2198	0	2168	122	0
1	1-C	2234	0	2199	148	0
1	1-D	2198	0	2168	142	0
1	2-A	2234	0	2199	181	0
1	2-B	2198	0	2168	140	0
1	2-C	2234	0	2199	167	0
1	2-D	2198	0	2168	128	0
1	3-A	2234	0	2199	152	0
1	3-B	2198	0	2168	180	0
1	3-C	2234	0	2199	213	0
1	3-D	2198	0	2168	126	0
1	4-A	2234	0	2199	204	0
1	4-B	2198	0	2168	154	0
1	4-C	2234	0	2199	172	0
1	4-D	2198	0	2168	155	0
1	5-A	2234	0	2199	188	0
1	5-B	2198	0	2168	115	0
1	5-C	2234	0	2199	150	0
1	5-D	2198	0	2168	149	0
1	6-A	2234	0	2199	209	0
1	6-B	2198	0	2168	148	0
1	6-C	2234	0	2199	200	0
1	6-D	2198	0	2168	140	0
1	7-A	2234	0	2199	227	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	7-B	2198	0	2168	136	0
1	7-C	2234	0	2199	161	0
1	7-D	2198	0	2168	156	0
1	8-A	2234	0	2199	162	0
1	8-B	2198	0	2168	169	0
1	8-C	2234	0	2199	146	0
1	8-D	2198	0	2168	167	0
2	1-A	130	0	0	4	0
2	1-B	177	0	0	10	0
2	1-C	135	0	0	9	0
2	1-D	134	0	0	6	0
2	2-A	137	0	0	5	0
2	2-B	179	0	0	13	0
2	2-C	129	0	0	9	0
2	2-D	131	0	0	8	0
2	3-A	135	0	0	6	0
2	3-B	175	0	0	10	0
2	3-C	132	0	0	16	0
2	3-D	134	0	0	4	0
2	4-A	134	0	0	10	0
2	4-B	173	0	0	11	0
2	4-C	135	0	0	15	0
2	4-D	134	0	0	6	0
2	5-A	134	0	0	7	0
2	5-B	171	0	0	14	0
2	5-C	138	0	0	7	0
2	5-D	133	0	0	16	0
2	6-A	135	0	0	7	0
2	6-B	176	0	0	12	0
2	6-C	132	0	0	7	0
2	6-D	133	0	0	9	0
2	7-A	128	0	0	13	0
2	7-B	177	0	0	12	0
2	7-C	133	0	0	9	0
2	7-D	138	0	0	13	0
2	8-A	135	0	0	7	0
2	8-B	173	0	0	16	0
2	8-C	133	0	0	7	0
2	8-D	135	0	0	14	0
All	All	75520	0	69872	4966	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 35.

All (4966) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:124:VAL:HG22	1:C:197:ALA:HB3	1.25	1.18
1:A:135:LEU:HD22	1:A:149:MSE:HE2	1.28	1.14
1:A:241:HIS:HB3	2:A:427:HOH:O	1.45	1.13
1:A:238:LEU:HA	1:A:242:MSE:HE3	1.37	1.06
1:C:198:VAL:HB	1:C:231:VAL:HG22	1.34	1.04
1:A:234:GLN:HE22	1:A:275:ILE:HD11	1.22	1.04
1:C:301:SER:HB3	1:C:304:ASN:HD22	1.19	1.02
1:B:51:MSE:HE1	1:C:44:ILE:HD12	1.39	1.02
1:B:73:SER:HB3	1:B:155:MSE:SE	2.09	1.02
1:C:249:VAL:HA	1:C:278:MSE:HE2	1.36	1.02
1:C:140:ARG:HH12	1:C:301:SER:HB2	1.22	1.01
1:B:260:VAL:HG13	1:B:278:MSE:HE1	1.40	1.01
1:A:80:VAL:HG21	1:A:159:VAL:HG11	1.40	1.00
1:A:259:SER:H	1:A:281:SER:HB3	1.22	1.00
1:A:253:ARG:HH22	1:A:330:GLU:HB3	1.25	1.00
1:C:301:SER:HB3	1:C:304:ASN:HD22	1.26	0.99
1:B:187:LEU:HD21	1:B:221:VAL:HG22	1.44	0.98
1:A:241:HIS:HB3	2:A:428:HOH:O	1.60	0.98
1:D:249:VAL:HA	1:D:278:MSE:HE1	1.40	0.98
1:C:54:MSE:HE2	1:C:204:ASP:HB3	1.46	0.98
1:A:127:ILE:HB	1:A:200:VAL:HG22	1.46	0.97
1:C:301:SER:HB3	1:C:304:ASN:HD22	1.27	0.97
1:B:230:VAL:HG11	1:B:287:VAL:HG11	1.46	0.97
1:B:187:LEU:HD21	1:B:221:VAL:HG22	1.48	0.96
1:A:105:ALA:O	1:A:109:MSE:HG2	1.64	0.96
1:C:242:MSE:HA	1:C:242:MSE:HE2	1.45	0.96
1:A:151:GLU:HG3	1:A:152:ILE:H	1.31	0.95
1:C:198:VAL:HB	1:C:231:VAL:HG22	1.48	0.95
1:A:44:ILE:HD12	1:D:51:MSE:HE1	1.48	0.95
1:A:127:ILE:HD12	1:A:200:VAL:HG22	1.48	0.95
1:C:89:VAL:HG22	1:C:99:THR:HG23	1.46	0.95
1:A:127:ILE:HD12	1:A:200:VAL:HG22	1.43	0.94
1:B:227:PRO:HG2	2:B:469:HOH:O	1.66	0.94
1:B:227:PRO:HG2	2:B:469:HOH:O	1.66	0.94
1:A:135:LEU:HD22	1:A:149:MSE:HE2	1.47	0.93
1:C:301:SER:HB3	1:C:304:ASN:HD22	1.32	0.93
1:C:253:ARG:HH22	1:C:330:GLU:HB2	1.32	0.93
1:A:206:ILE:HG23	1:A:207:GLY:H	1.33	0.92
1:A:241:HIS:HB3	2:A:428:HOH:O	1.68	0.92
1:C:200:VAL:HB	1:C:233:THR:HG22	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:MSE:HE2	1:A:242:MSE:HA	1.50	0.92
1:A:72:LYS:HB3	1:C:51:MSE:HB2	1.51	0.91
1:D:249:VAL:HG21	1:D:329:ILE:HG23	1.51	0.91
1:A:222:ALA:HA	1:A:225:LEU:HD12	1.53	0.91
1:B:311:ASN:HD22	1:B:314:ILE:HG12	1.34	0.91
1:A:245:ILE:HA	1:A:248:ILE:HD12	1.52	0.91
1:B:79:ILE:HB	1:B:91:VAL:HB	1.51	0.90
1:B:51:MSE:HE1	1:C:44:ILE:HD12	1.54	0.90
1:A:152:ILE:HD12	1:A:182:ASP:HA	1.50	0.90
1:D:257:LYS:HB2	1:D:283:GLU:HB2	1.54	0.90
1:B:320:CYS:O	1:B:321:LEU:HD23	1.72	0.90
1:A:222:ALA:HA	1:A:225:LEU:HD12	1.54	0.89
1:A:242:MSE:HE2	1:A:242:MSE:HA	1.54	0.89
1:C:127:ILE:HD13	1:C:200:VAL:HG22	1.53	0.89
1:B:196:ASP:OD1	1:B:226:ARG:HD3	1.73	0.89
1:A:242:MSE:HE2	1:A:242:MSE:HA	1.52	0.89
1:C:301:SER:HB3	1:C:304:ASN:HD22	1.38	0.88
1:B:112:HIS:O	1:B:116:CYS:HB2	1.74	0.88
1:D:43:VAL:HG23	1:D:44:ILE:HG13	1.56	0.88
1:B:49:SER:HB2	1:B:51:MSE:HE2	1.56	0.88
1:A:125:LEU:HB3	1:A:198:VAL:HG22	1.56	0.88
1:A:99:THR:HG22	1:A:101:ARG:H	1.39	0.88
1:A:43:VAL:HG13	1:D:43:VAL:HA	1.54	0.88
1:A:238:LEU:HA	1:A:242:MSE:HE3	1.54	0.88
1:C:225:LEU:HD11	1:C:231:VAL:HG23	1.54	0.88
1:C:225:LEU:HD11	1:C:231:VAL:HG13	1.55	0.87
1:A:234:GLN:HE22	1:A:275:ILE:HD11	1.38	0.87
1:A:257:LYS:HB2	1:A:283:GLU:HB2	1.56	0.87
1:A:51:MSE:HG2	2:A:395:HOH:O	1.75	0.86
1:A:68:LEU:HD12	1:A:80:VAL:HG12	1.55	0.86
1:D:200:VAL:HB	1:D:233:THR:HG23	1.56	0.86
1:B:109:MSE:HE1	1:B:310:TYR:HD2	1.40	0.86
1:D:238:LEU:HD22	1:D:325:ALA:HB1	1.56	0.86
1:D:257:LYS:HB2	1:D:283:GLU:HB2	1.56	0.86
1:B:225:LEU:HD22	1:B:229:GLY:HA3	1.56	0.86
1:D:248:ILE:HG22	1:D:278:MSE:HE2	1.57	0.86
1:D:205:PRO:HB2	1:D:210:LYS:HA	1.57	0.86
1:C:301:SER:HB3	1:C:304:ASN:HD22	1.39	0.86
1:B:227:PRO:HG2	2:B:470:HOH:O	1.75	0.86
1:C:242:MSE:HA	1:C:245:ILE:HD12	1.57	0.85
1:A:154:LYS:HB2	1:A:180:ILE:HD13	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:241:HIS:HB2	1:A:244:ILE:HD12	1.57	0.85
1:A:236:GLU:HB3	1:A:241:HIS:CD2	2.11	0.85
1:A:44:ILE:HB	1:D:43:VAL:HG12	1.58	0.85
1:D:198:VAL:HB	1:D:231:VAL:HG22	1.58	0.85
1:C:200:VAL:HB	1:C:233:THR:HG22	1.58	0.85
1:A:55:TRP:HD1	1:A:58:GLU:HG3	1.41	0.85
1:B:122:LYS:HD2	1:B:145:GLU:HG3	1.59	0.85
1:D:161:LYS:HA	1:D:168:ALA:HB2	1.56	0.85
1:C:301:SER:HB3	1:C:304:ASN:HD22	1.40	0.85
1:A:238:LEU:HD11	1:A:321:LEU:HD22	1.56	0.85
1:C:242:MSE:HA	1:C:242:MSE:HE2	1.56	0.85
1:A:292:PRO:HD3	1:A:315:HIS:CD2	2.12	0.85
1:A:122:LYS:HE3	2:A:388:HOH:O	1.77	0.85
1:D:225:LEU:HD11	1:D:231:VAL:HG23	1.59	0.85
1:B:113:LEU:HD23	1:B:279:LEU:HD21	1.59	0.85
1:D:82:GLN:HE22	1:D:87:GLY:HA2	1.40	0.84
1:A:154:LYS:HB2	1:A:180:ILE:HD13	1.59	0.84
1:A:77:ASP:HB2	1:A:93:ASP:HA	1.56	0.84
1:C:292:PRO:HB2	1:C:295:PRO:HB3	1.59	0.84
1:A:299:SER:HA	1:A:302:LYS:HG3	1.60	0.84
1:A:196:ASP:HA	1:A:226:ARG:NH2	1.93	0.84
1:D:130:GLY:HA3	1:D:151:GLU:OE1	1.78	0.84
1:B:136:ARG:HE	1:B:167:VAL:HG12	1.41	0.84
1:A:252:CYS:HB3	1:A:280:CYS:SG	2.18	0.84
1:D:43:VAL:HG23	1:D:44:ILE:HG13	1.57	0.84
1:C:73:SER:HB3	1:C:155:MSE:HG3	1.60	0.84
1:C:148:ASP:HA	1:C:177:ASN:HB3	1.57	0.83
1:A:242:MSE:HB2	2:A:362:HOH:O	1.78	0.83
1:D:267:VAL:HG21	1:D:275:ILE:HB	1.58	0.83
1:A:236:GLU:HB3	1:A:241:HIS:CD2	2.14	0.83
1:D:146:GLN:NE2	1:D:177:ASN:HB2	1.93	0.83
1:B:257:LYS:HB2	1:B:283:GLU:HB2	1.59	0.83
1:A:232:CYS:HA	1:A:278:MSE:O	1.78	0.83
1:A:154:LYS:HB2	1:A:180:ILE:HD13	1.61	0.82
1:C:257:LYS:HB3	1:C:283:GLU:HB3	1.59	0.82
1:D:311:ASN:O	1:D:314:ILE:HG22	1.79	0.82
1:D:234:GLN:NE2	1:D:236:GLU:H	1.75	0.82
1:C:278:MSE:HE1	1:C:280:CYS:HB2	1.59	0.82
1:D:311:ASN:HD21	1:D:313:GLU:HB2	1.42	0.82
1:C:109:MSE:HE1	1:C:314:ILE:HG23	1.62	0.82
1:B:257:LYS:HB2	1:B:283:GLU:HB2	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LEU:HD21	1:A:199:ILE:HD11	1.60	0.82
1:D:106:TYR:O	1:D:109:MSE:HB2	1.80	0.82
1:D:69:PHE:HE2	1:D:78:VAL:HB	1.43	0.82
1:A:236:GLU:HB3	1:A:241:HIS:CD2	2.14	0.82
1:C:65:GLU:HB3	1:C:82:GLN:HB3	1.60	0.82
1:D:146:GLN:HE21	1:D:177:ASN:HB2	1.43	0.82
1:A:55:TRP:HB2	1:A:58:GLU:OE1	1.80	0.82
1:B:242:MSE:HA	1:B:242:MSE:HE3	1.61	0.82
1:B:208:PRO:HD3	2:B:460:HOH:O	1.79	0.81
1:D:319:PHE:O	1:D:321:LEU:HG	1.79	0.81
1:D:238:LEU:HD22	1:D:325:ALA:HB1	1.62	0.81
1:D:249:VAL:HG22	1:D:278:MSE:SE	2.31	0.81
1:D:109:MSE:HE3	1:D:265:THR:HB	1.62	0.81
1:A:70:GLN:HE22	1:C:70:GLN:HE22	1.25	0.81
1:A:53:PRO:O	1:A:56:PRO:HD3	1.81	0.81
1:C:219:GLN:HE22	1:C:255:ILE:HD12	1.45	0.81
1:C:66:LYS:HB3	1:C:82:GLN:HB3	1.61	0.81
1:C:238:LEU:HD23	1:C:245:ILE:HD13	1.62	0.81
1:C:232:CYS:HA	1:C:278:MSE:O	1.80	0.81
1:A:67:VAL:HG21	1:C:64:VAL:HG11	1.63	0.81
1:C:140:ARG:NH1	1:C:301:SER:HB2	1.96	0.81
1:D:249:VAL:HA	1:D:278:MSE:HE1	1.60	0.81
1:B:196:ASP:OD1	1:B:226:ARG:HD3	1.80	0.81
1:B:135:LEU:HD11	1:B:149:MSE:HG3	1.61	0.80
1:C:311:ASN:ND2	1:C:314:ILE:H	1.77	0.80
1:D:82:GLN:NE2	1:D:87:GLY:HA2	1.95	0.80
1:D:125:LEU:HB3	1:D:198:VAL:HG22	1.63	0.80
1:C:86:TYR:HB3	1:C:99:THR:HG21	1.63	0.80
1:B:198:VAL:HG23	1:B:225:LEU:HD21	1.61	0.80
1:C:151:GLU:OE2	1:C:157:VAL:HG22	1.82	0.80
1:C:131:ASP:O	1:C:167:VAL:HG12	1.80	0.80
1:C:249:VAL:HA	1:C:278:MSE:HE1	1.64	0.80
1:D:152:ILE:HD12	1:D:182:ASP:HA	1.64	0.80
1:C:198:VAL:HB	1:C:231:VAL:HG12	1.63	0.80
1:C:158:ASP:OD2	1:D:45:PRO:HB3	1.80	0.80
1:B:223:ARG:HG2	1:B:223:ARG:HH11	1.47	0.80
1:A:72:LYS:HZ1	1:C:53:PRO:HD3	1.47	0.80
1:B:149:MSE:SE	1:B:178:LEU:HD13	2.32	0.80
1:D:263:ALA:HB1	1:D:318:ALA:HB1	1.64	0.79
1:C:324:PHE:HA	1:C:327:LYS:HE3	1.65	0.79
1:A:94:GLY:O	1:A:95:VAL:HG23	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:257:LYS:HB2	1:D:283:GLU:HB2	1.65	0.79
1:A:69:PHE:HZ	1:A:155:MSE:HE1	1.48	0.79
1:D:234:GLN:HE21	1:D:236:GLU:H	1.26	0.79
1:A:135:LEU:HD13	1:A:149:MSE:SE	2.33	0.79
1:D:146:GLN:NE2	1:D:177:ASN:HB2	1.97	0.79
1:A:252:CYS:O	1:A:260:VAL:HG11	1.82	0.79
1:A:179:VAL:HG12	1:A:179:VAL:O	1.82	0.79
1:C:257:LYS:HB3	1:C:283:GLU:HB3	1.64	0.79
1:A:135:LEU:HD22	1:A:149:MSE:HE2	1.64	0.79
1:A:297:ASP:O	1:A:298:GLU:HB2	1.83	0.78
1:B:134:VAL:HG12	1:B:138:VAL:HG23	1.64	0.78
1:C:148:ASP:OD1	1:C:177:ASN:HB3	1.83	0.78
1:A:267:VAL:HG11	1:A:270:TYR:CD2	2.19	0.78
1:D:109:MSE:HE3	1:D:265:THR:CB	2.14	0.78
1:C:193:GLY:H	1:C:224:ALA:HA	1.49	0.78
1:B:238:LEU:HD22	1:B:242:MSE:HE1	1.64	0.78
1:D:136:ARG:HE	1:D:167:VAL:HB	1.48	0.78
1:A:234:GLN:HE22	1:A:275:ILE:HD11	1.48	0.78
1:C:215:LYS:H	1:C:216:PRO:CD	1.97	0.78
1:C:182:ASP:OD1	1:C:184:VAL:HG22	1.83	0.78
1:A:292:PRO:HB2	1:A:295:PRO:HD3	1.66	0.78
1:D:115:LEU:HD21	1:D:138:VAL:HG13	1.64	0.78
1:B:109:MSE:HG3	1:B:265:THR:HG21	1.66	0.78
1:C:236:GLU:HB3	1:C:241:HIS:HD2	1.49	0.78
1:C:249:VAL:HA	1:C:278:MSE:HE2	1.66	0.78
1:D:111:THR:O	1:D:115:LEU:HB2	1.83	0.78
1:C:73:SER:HB3	1:C:155:MSE:SE	2.34	0.78
1:D:87:GLY:HA3	1:D:100:GLU:HB2	1.65	0.78
1:D:198:VAL:HB	1:D:231:VAL:HG22	1.65	0.78
1:D:230:VAL:HG12	1:D:281:SER:OG	1.83	0.77
1:B:183:GLY:HA3	2:B:476:HOH:O	1.84	0.77
1:B:242:MSE:O	1:B:246:GLU:HG3	1.84	0.77
1:A:70:GLN:HG3	1:A:79:ILE:HG12	1.66	0.77
1:D:126:VAL:HB	1:D:149:MSE:SE	2.35	0.77
1:B:73:SER:HB2	1:B:155:MSE:HG3	1.66	0.77
1:D:109:MSE:HE2	1:D:310:TYR:HA	1.65	0.77
1:A:111:THR:O	1:A:115:LEU:HD23	1.82	0.77
1:D:151:GLU:HG2	1:D:157:VAL:HG22	1.66	0.77
1:A:107:GLN:NE2	1:A:133:GLY:HA3	2.00	0.77
1:A:236:GLU:HB3	1:A:241:HIS:NE2	2.00	0.77
1:A:238:LEU:HA	1:A:242:MSE:CE	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:169:ILE:HD12	1:B:172:GLU:HG3	1.67	0.77
1:A:107:GLN:NE2	1:A:133:GLY:HA3	2.00	0.77
1:D:196:ASP:OD1	1:D:226:ARG:HD2	1.84	0.77
1:D:225:LEU:HD11	1:D:231:VAL:HG23	1.65	0.77
1:D:249:VAL:HA	1:D:278:MSE:HE2	1.67	0.77
1:A:238:LEU:HA	1:A:242:MSE:HE3	1.66	0.77
1:D:146:GLN:HE21	1:D:177:ASN:HB2	1.50	0.77
1:A:178:LEU:HD12	1:A:179:VAL:H	1.47	0.77
1:A:132:GLY:HA2	1:A:149:MSE:HE1	1.65	0.76
1:A:105:ALA:O	1:A:109:MSE:HB2	1.86	0.76
1:B:192:GLU:HA	1:B:223:ARG:HH12	1.50	0.76
1:D:109:MSE:C	1:D:111:THR:H	1.88	0.76
1:A:223:ARG:HD2	2:A:360:HOH:O	1.85	0.76
1:A:267:VAL:HG11	1:A:270:TYR:CD2	2.21	0.76
1:A:115:LEU:HD21	1:A:199:ILE:HD11	1.66	0.76
1:D:109:MSE:CE	1:D:310:TYR:HA	2.15	0.76
1:D:128:GLY:HA2	2:D:551:HOH:O	1.83	0.76
1:C:86:TYR:HB3	1:C:99:THR:HG21	1.68	0.76
1:C:80:VAL:HG21	1:C:159:VAL:HG11	1.67	0.76
1:B:206:ILE:HG22	2:B:360:HOH:O	1.86	0.76
1:A:314:ILE:HD12	1:D:320:CYS:SG	2.25	0.76
1:D:238:LEU:HD22	1:D:242:MSE:HE1	1.67	0.76
1:C:129:GLY:HA2	1:C:149:MSE:SE	2.36	0.76
1:A:241:HIS:CB	1:A:244:ILE:HD12	2.16	0.76
1:C:324:PHE:HA	1:C:327:LYS:HE3	1.67	0.76
1:A:260:VAL:HB	1:A:280:CYS:SG	2.26	0.75
1:A:98:LEU:HD13	1:A:103:GLU:OE1	1.86	0.75
1:D:99:THR:HG21	1:D:269:THR:HG21	1.66	0.75
1:B:243:ASP:HB2	2:B:433:HOH:O	1.85	0.75
1:D:111:THR:O	1:D:115:LEU:HB2	1.86	0.75
1:C:127:ILE:H	1:C:127:ILE:HD12	1.51	0.75
1:C:131:ASP:O	1:C:167:VAL:HG12	1.86	0.75
1:C:242:MSE:HE1	1:C:329:ILE:HD11	1.67	0.75
1:D:43:VAL:HG23	1:D:44:ILE:HG13	1.68	0.75
1:A:51:MSE:HE3	1:C:71:GLY:HA3	1.68	0.75
1:A:111:THR:O	1:A:115:LEU:HD23	1.87	0.75
1:A:86:TYR:HD2	1:A:99:THR:HG21	1.50	0.75
1:B:135:LEU:HD11	1:B:149:MSE:HG3	1.69	0.75
1:B:292:PRO:HD3	1:B:315:HIS:CD2	2.20	0.75
1:C:86:TYR:HD2	1:C:99:THR:HG21	1.52	0.75
1:C:99:THR:HB	1:C:102:ASP:OD1	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:VAL:H	1:C:162:GLN:HE22	1.35	0.75
1:B:51:MSE:HE1	1:C:44:ILE:HD12	1.67	0.75
1:A:63:LYS:HB3	1:A:84:ALA:HB2	1.68	0.75
1:D:238:LEU:HD22	1:D:325:ALA:HB1	1.67	0.75
1:D:43:VAL:HG23	1:D:44:ILE:HG13	1.68	0.75
1:A:88:LYS:HB3	1:A:164:PHE:CE1	2.22	0.75
1:D:77:ASP:N	1:D:93:ASP:OD1	2.18	0.75
1:D:130:GLY:HA3	1:D:156:VAL:HG11	1.69	0.75
1:C:327:LYS:HB2	2:C:491:HOH:O	1.87	0.74
1:D:238:LEU:HD23	1:D:245:ILE:HD13	1.67	0.74
1:D:198:VAL:O	1:D:231:VAL:HA	1.86	0.74
1:A:296:ILE:H	1:A:296:ILE:HD12	1.50	0.74
1:A:249:VAL:HA	1:A:278:MSE:HE1	1.69	0.74
1:A:260:VAL:HB	1:A:278:MSE:HE1	1.69	0.74
1:B:131:ASP:O	1:B:167:VAL:HB	1.87	0.74
1:A:321:LEU:HD13	1:A:329:ILE:HD12	1.68	0.74
1:D:275:ILE:HG13	1:D:276:GLY:H	1.51	0.74
1:A:104:CYS:HB3	1:A:308:LYS:HE2	1.68	0.74
1:A:178:LEU:HG	1:A:180:ILE:HG13	1.68	0.74
1:B:104:CYS:O	1:B:108:GLU:HB2	1.87	0.74
1:B:241:HIS:HB3	2:B:374:HOH:O	1.87	0.74
1:A:178:LEU:HD12	1:A:179:VAL:H	1.51	0.74
1:C:223:ARG:HA	2:C:477:HOH:O	1.86	0.74
1:C:242:MSE:HA	1:C:242:MSE:CE	2.17	0.74
1:C:296:ILE:HG23	1:C:300:SER:HB2	1.70	0.74
1:C:242:MSE:HA	1:C:242:MSE:CE	2.18	0.74
1:B:129:GLY:HA2	1:B:201:ASP:OD1	1.85	0.74
1:C:105:ALA:O	1:C:109:MSE:HB2	1.87	0.74
1:A:44:ILE:HD12	1:D:51:MSE:HE1	1.68	0.74
1:A:178:LEU:HD12	1:A:179:VAL:H	1.51	0.74
1:A:223:ARG:HD2	2:A:360:HOH:O	1.87	0.74
1:D:99:THR:HG23	1:D:269:THR:HG21	1.69	0.74
1:C:135:LEU:HD13	1:C:149:MSE:HE2	1.69	0.74
1:A:228:GLY:HA2	1:A:282:THR:O	1.87	0.74
1:D:125:LEU:HB3	1:D:198:VAL:HG22	1.69	0.74
1:A:152:ILE:HD12	1:A:182:ASP:HA	1.67	0.74
1:C:129:GLY:HA3	1:C:151:GLU:HB2	1.68	0.74
1:B:230:VAL:CG1	1:B:287:VAL:HG11	2.18	0.74
1:B:109:MSE:HE3	1:B:109:MSE:HA	1.70	0.74
1:A:296:ILE:HG23	1:A:300:SER:HB2	1.69	0.74
1:A:223:ARG:HD2	2:A:360:HOH:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:126:VAL:HG12	1:B:126:VAL:O	1.86	0.73
1:B:173:ASP:CG	1:B:175:ARG:HH21	1.90	0.73
1:B:111:THR:O	1:B:115:LEU:HB2	1.89	0.73
1:C:79:ILE:HB	1:C:91:VAL:HB	1.70	0.73
1:B:223:ARG:HD2	2:B:481:HOH:O	1.87	0.73
1:B:173:ASP:HB3	1:B:176:VAL:HG23	1.68	0.73
1:A:161:LYS:HA	1:A:168:ALA:HB2	1.70	0.73
1:A:41:SER:OG	1:D:42:THR:HG21	1.88	0.73
1:D:197:ALA:HA	1:D:230:VAL:O	1.89	0.73
1:D:99:THR:CG2	1:D:269:THR:HG21	2.18	0.73
1:D:198:VAL:HG23	1:D:225:LEU:HD21	1.70	0.73
1:B:292:PRO:HD3	1:B:315:HIS:CD2	2.23	0.73
1:B:92:LEU:HB2	1:B:97:GLN:NE2	2.04	0.73
1:A:263:ALA:HB2	1:A:319:PHE:CE1	2.24	0.73
1:D:42:THR:HA	1:D:49:SER:HB2	1.70	0.73
1:A:214:GLU:HB3	1:A:216:PRO:HD2	1.69	0.73
1:A:230:VAL:HA	1:A:280:CYS:O	1.87	0.73
1:A:154:LYS:HB2	1:A:180:ILE:HD13	1.68	0.73
1:D:264:TRP:HA	1:D:276:GLY:HA2	1.70	0.73
1:B:109:MSE:HE3	1:B:113:LEU:HD11	1.71	0.73
1:D:73:SER:HB3	1:D:155:MSE:SE	2.39	0.73
1:C:99:THR:HB	1:C:102:ASP:OD1	1.88	0.73
1:C:324:PHE:HA	1:C:327:LYS:HE3	1.71	0.73
1:B:196:ASP:HA	1:B:226:ARG:HH11	1.54	0.73
1:C:99:THR:HG22	1:C:101:ARG:H	1.52	0.73
1:A:132:GLY:HA2	1:A:149:MSE:HE1	1.69	0.73
1:B:42:THR:HG21	1:C:42:THR:H	1.52	0.73
1:B:192:GLU:HG3	1:B:223:ARG:HH11	1.52	0.73
1:A:51:MSE:HE2	1:C:72:LYS:H	1.54	0.73
1:D:128:GLY:HA2	2:D:551:HOH:O	1.87	0.73
1:C:92:LEU:HB2	1:C:97:GLN:HG3	1.69	0.72
1:A:249:VAL:HG13	1:A:278:MSE:HE1	1.71	0.72
1:C:131:ASP:O	1:C:167:VAL:HG12	1.90	0.72
1:B:109:MSE:HG3	1:B:265:THR:HG21	1.71	0.72
1:B:290:LYS:HD2	2:B:485:HOH:O	1.89	0.72
1:A:173:ASP:HB3	1:A:176:VAL:HG23	1.71	0.72
1:C:73:SER:HB2	2:C:339:HOH:O	1.89	0.72
1:A:104:CYS:HB3	1:A:308:LYS:HE2	1.69	0.72
1:A:249:VAL:HG22	1:A:278:MSE:SE	2.39	0.72
1:C:129:GLY:HA2	1:C:151:GLU:HG2	1.71	0.72
1:C:53:PRO:O	1:C:56:PRO:HD3	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:241:HIS:ND1	2:C:525:HOH:O	2.22	0.72
1:D:226:ARG:HD3	1:D:226:ARG:H	1.53	0.72
1:B:44:ILE:HD13	1:C:51:MSE:HE3	1.72	0.72
1:B:326:LYS:O	1:B:330:GLU:HG2	1.89	0.72
1:B:79:ILE:HB	1:B:91:VAL:HB	1.70	0.72
1:D:51:MSE:SE	1:D:51:MSE:N	2.72	0.72
1:C:241:HIS:ND1	2:C:525:HOH:O	2.23	0.72
1:A:173:ASP:HB3	1:A:176:VAL:HG23	1.72	0.72
1:B:51:MSE:HE1	1:C:47:TRP:CZ2	2.25	0.72
1:D:149:MSE:HE3	1:D:150:CYS:H	1.54	0.72
1:A:245:ILE:O	1:A:249:VAL:HG23	1.88	0.72
1:C:135:LEU:HD22	1:C:149:MSE:HE1	1.72	0.72
1:B:210:LYS:O	1:B:210:LYS:HD3	1.89	0.72
1:A:308:LYS:O	1:D:324:PHE:HB3	1.88	0.71
1:C:66:LYS:O	1:C:81:PHE:HB2	1.89	0.71
1:D:99:THR:HG21	1:D:269:THR:HG21	1.70	0.71
1:A:242:MSE:HE2	1:A:245:ILE:HD12	1.71	0.71
1:A:238:LEU:HA	1:A:242:MSE:CE	2.20	0.71
1:A:261:ASN:HD22	1:A:289:PHE:HD2	1.36	0.71
1:D:270:TYR:HD2	1:D:275:ILE:HB	1.55	0.71
1:A:108:GLU:HB2	1:A:109:MSE:HE3	1.70	0.71
1:D:83:SER:HB3	1:D:87:GLY:O	1.89	0.71
1:C:86:TYR:HD2	1:C:99:THR:HG21	1.55	0.71
1:D:242:MSE:HE1	2:D:513:HOH:O	1.89	0.71
1:B:44:ILE:HD13	1:C:51:MSE:HE3	1.72	0.71
1:B:272:SER:HA	1:C:268:PRO:HB3	1.72	0.71
1:B:42:THR:HA	1:B:49:SER:HB2	1.72	0.71
1:C:262:TYR:OH	1:C:276:GLY:HA3	1.90	0.71
1:A:267:VAL:HG11	1:A:270:TYR:CD2	2.25	0.71
1:C:266:SER:HA	1:C:273:GLY:O	1.90	0.71
1:D:127:ILE:HG23	1:D:150:CYS:HB2	1.71	0.71
1:B:57:GLY:HA2	1:C:63:LYS:HB3	1.70	0.71
1:B:43:VAL:HA	1:C:43:VAL:HG13	1.71	0.71
1:B:188:LYS:HE2	2:B:432:HOH:O	1.91	0.71
1:C:214:GLU:HB3	1:C:216:PRO:HD2	1.71	0.71
1:C:260:VAL:HG22	1:C:280:CYS:SG	2.31	0.71
1:B:210:LYS:O	1:B:210:LYS:HD3	1.91	0.71
1:A:151:GLU:CG	1:A:152:ILE:H	2.03	0.71
1:D:146:GLN:HE21	1:D:177:ASN:HB2	1.55	0.71
1:D:149:MSE:HB3	1:D:178:LEU:HA	1.73	0.71
1:C:169:ILE:HG13	1:C:172:GLU:OE2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:157:VAL:HG11	1:C:178:LEU:HD21	1.73	0.71
1:C:296:ILE:HG21	1:C:307:LEU:HD21	1.71	0.71
1:D:146:GLN:NE2	1:D:177:ASN:HB2	2.05	0.71
1:B:157:VAL:O	1:B:161:LYS:HB2	1.91	0.71
1:D:184:VAL:HG22	1:D:217:PHE:HD1	1.56	0.71
1:A:125:LEU:HD23	1:A:198:VAL:HG22	1.71	0.71
1:A:173:ASP:HB3	1:A:176:VAL:HG23	1.73	0.71
1:A:135:LEU:HD22	1:A:149:MSE:HE2	1.72	0.70
1:B:43:VAL:HA	1:C:43:VAL:HG13	1.72	0.70
1:A:296:ILE:HG23	1:A:300:SER:HB2	1.73	0.70
1:A:252:CYS:SG	1:A:278:MSE:SE	2.99	0.70
1:B:234:GLN:HA	1:B:277:PHE:HD1	1.54	0.70
1:B:238:LEU:HD22	1:B:242:MSE:HE1	1.73	0.70
1:A:238:LEU:HB2	1:A:242:MSE:HE3	1.73	0.70
1:A:51:MSE:HB2	1:C:72:LYS:HB3	1.71	0.70
1:B:135:LEU:HD11	1:B:149:MSE:HG3	1.73	0.70
1:A:308:LYS:O	1:D:324:PHE:HB3	1.90	0.70
1:D:140:ARG:HB3	1:D:296:ILE:HD11	1.71	0.70
1:C:248:ILE:HA	1:C:251:ASN:HD22	1.56	0.70
1:B:322:PRO:HG2	1:B:325:ALA:HB3	1.72	0.70
1:D:43:VAL:HG23	1:D:44:ILE:HG13	1.73	0.70
1:A:106:TYR:O	1:A:110:ILE:HG22	1.90	0.70
1:A:204:ASP:HB3	1:A:205:PRO:HD2	1.71	0.70
1:A:187:LEU:HD21	1:A:221:VAL:HA	1.73	0.70
1:C:154:LYS:HB2	1:C:180:ILE:HD13	1.71	0.70
1:C:249:VAL:HA	1:C:278:MSE:CE	2.16	0.70
1:C:67:VAL:HG13	1:C:70:GLN:HE21	1.54	0.70
1:D:266:SER:O	1:D:268:PRO:HD3	1.92	0.70
1:B:54:MSE:SE	2:B:366:HOH:O	2.58	0.70
1:D:198:VAL:HB	1:D:231:VAL:CG2	2.21	0.70
1:B:109:MSE:HE3	1:B:310:TYR:CD2	2.27	0.70
1:C:232:CYS:HA	1:C:278:MSE:O	1.92	0.70
1:D:202:SER:HB2	1:D:234:GLN:HB3	1.73	0.70
1:A:135:LEU:HB2	1:A:149:MSE:HE1	1.71	0.70
1:D:136:ARG:HG2	2:D:357:HOH:O	1.92	0.70
1:A:262:TYR:CZ	1:A:276:GLY:HA3	2.27	0.70
1:C:83:SER:HB3	1:C:87:GLY:O	1.92	0.70
1:B:198:VAL:HG23	1:B:225:LEU:HD21	1.73	0.70
1:C:109:MSE:HE1	1:C:310:TYR:CD2	2.27	0.70
1:C:321:LEU:HD12	1:C:321:LEU:H	1.57	0.70
1:B:73:SER:CB	1:B:155:MSE:HG3	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:135:LEU:HD13	1:C:149:MSE:HE2	1.73	0.70
1:A:69:PHE:CZ	1:A:155:MSE:HE1	2.27	0.70
1:C:92:LEU:HD11	1:C:130:GLY:HA2	1.74	0.70
1:B:130:GLY:O	1:B:131:ASP:HB2	1.90	0.70
1:B:243:ASP:HB2	2:B:433:HOH:O	1.92	0.70
1:D:214:GLU:HG3	2:D:409:HOH:O	1.90	0.70
1:D:99:THR:CG2	1:D:269:THR:HG21	2.21	0.70
1:D:308:LYS:NZ	1:D:308:LYS:HB3	2.07	0.69
1:C:152:ILE:HG23	1:C:153:ASP:H	1.57	0.69
1:C:86:TYR:HB3	1:C:99:THR:CG2	2.21	0.69
1:C:86:TYR:HB3	1:C:99:THR:OG1	1.92	0.69
1:C:88:LYS:O	1:C:99:THR:HA	1.92	0.69
1:A:238:LEU:HA	1:A:242:MSE:CE	2.22	0.69
1:C:72:LYS:HE2	1:C:77:ASP:OD1	1.91	0.69
1:A:79:ILE:HG13	2:A:453:HOH:O	1.91	0.69
1:B:135:LEU:HD11	1:B:149:MSE:HG3	1.72	0.69
1:A:262:TYR:HA	1:A:277:PHE:O	1.92	0.69
1:A:66:LYS:HG2	1:A:82:GLN:HB3	1.71	0.69
1:B:42:THR:HA	1:B:49:SER:HB2	1.73	0.69
1:C:253:ARG:HA	1:C:260:VAL:HG21	1.75	0.69
1:D:80:VAL:HG21	1:D:159:VAL:HG11	1.75	0.69
1:C:236:GLU:HB3	1:C:241:HIS:HD2	1.55	0.69
1:C:307:LEU:N	1:C:307:LEU:HD12	2.06	0.69
1:D:249:VAL:HA	1:D:278:MSE:CE	2.22	0.69
1:C:239:TRP:O	1:C:240:LEU:HD23	1.91	0.69
1:D:109:MSE:SE	1:D:113:LEU:HD11	2.42	0.69
1:A:301:SER:HB3	1:A:304:ASN:OD1	1.92	0.69
1:C:86:TYR:HD2	1:C:99:THR:HG21	1.58	0.69
1:C:200:VAL:HB	1:C:233:THR:HG22	1.75	0.69
1:B:307:LEU:HD13	1:B:310:TYR:HD1	1.56	0.69
1:A:86:TYR:HB3	1:A:99:THR:HG21	1.73	0.69
1:B:134:VAL:O	1:B:138:VAL:HG23	1.92	0.69
1:C:107:GLN:NE2	1:C:133:GLY:HA3	2.08	0.69
1:B:241:HIS:HD2	2:B:375:HOH:O	1.74	0.69
1:B:311:ASN:HD21	1:B:313:GLU:HB2	1.55	0.69
1:A:232:CYS:HA	1:A:278:MSE:O	1.92	0.69
1:B:129:GLY:O	1:B:131:ASP:N	2.25	0.69
1:C:70:GLN:HG3	1:C:79:ILE:HG12	1.74	0.69
1:A:178:LEU:HD12	1:A:179:VAL:N	2.07	0.69
1:A:236:GLU:HB3	1:A:241:HIS:CD2	2.27	0.69
1:B:44:ILE:HD13	1:C:51:MSE:HE3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:200:VAL:HB	1:C:233:THR:HG22	1.75	0.69
1:C:311:ASN:O	1:C:314:ILE:HG22	1.93	0.69
1:B:157:VAL:HG12	1:B:161:LYS:HE3	1.75	0.69
1:C:311:ASN:ND2	1:C:314:ILE:HD13	2.07	0.69
1:A:296:ILE:HD13	1:A:297:ASP:H	1.57	0.69
1:A:135:LEU:HD21	1:A:176:VAL:HG21	1.74	0.69
1:A:125:LEU:HD21	1:A:187:LEU:HD11	1.73	0.69
1:C:249:VAL:HG22	1:C:278:MSE:HE1	1.75	0.69
1:A:51:MSE:HE3	1:C:72:LYS:H	1.58	0.68
1:A:86:TYR:HB3	1:A:99:THR:CG2	2.23	0.68
1:B:109:MSE:HE3	1:B:113:LEU:HD11	1.73	0.68
1:C:215:LYS:HB2	1:C:216:PRO:HD3	1.75	0.68
1:A:173:ASP:HB3	1:A:176:VAL:HG23	1.74	0.68
1:A:220:SER:O	1:A:223:ARG:HG2	1.93	0.68
1:A:327:LYS:HG3	1:A:328:VAL:H	1.58	0.68
1:B:67:VAL:HG22	1:B:81:PHE:HB3	1.76	0.68
1:D:327:LYS:O	1:D:330:GLU:HG3	1.93	0.68
1:A:127:ILE:HD12	1:A:127:ILE:O	1.92	0.68
1:C:87:GLY:HA3	1:C:100:GLU:HB2	1.73	0.68
1:D:104:CYS:O	1:D:108:GLU:HG3	1.93	0.68
1:C:235:ALA:O	1:C:236:GLU:HB2	1.91	0.68
1:C:296:ILE:HB	1:C:307:LEU:HD21	1.74	0.68
1:C:249:VAL:HA	1:C:278:MSE:CE	2.24	0.68
1:A:149:MSE:HG3	1:A:178:LEU:HD13	1.75	0.68
1:A:267:VAL:HG11	1:A:270:TYR:CD2	2.28	0.68
1:D:130:GLY:HA2	2:D:553:HOH:O	1.94	0.68
1:C:297:ASP:HB3	2:C:350:HOH:O	1.93	0.68
1:B:110:ILE:HG12	1:B:199:ILE:HG23	1.75	0.68
1:D:99:THR:CG2	1:D:269:THR:HG21	2.24	0.68
1:C:68:LEU:HB2	1:C:80:VAL:HG12	1.76	0.68
1:C:296:ILE:HG23	1:C:300:SER:HB2	1.75	0.68
1:B:292:PRO:HD3	1:B:315:HIS:CD2	2.29	0.68
1:D:192:GLU:HG2	1:D:223:ARG:HH11	1.59	0.68
1:B:198:VAL:HG23	1:B:225:LEU:HD21	1.75	0.68
1:B:238:LEU:HD11	1:B:321:LEU:HD13	1.73	0.68
1:A:236:GLU:HB3	1:A:241:HIS:CD2	2.27	0.68
1:D:107:GLN:O	1:D:111:THR:HG23	1.93	0.68
1:A:66:LYS:HG2	1:A:82:GLN:HB3	1.74	0.68
1:C:232:CYS:HA	1:C:278:MSE:O	1.94	0.68
1:C:219:GLN:NE2	1:C:255:ILE:HD12	2.09	0.68
1:D:238:LEU:HD12	1:D:264:TRP:CE3	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:67:VAL:HG11	1:D:70:GLN:HG3	1.76	0.68
1:A:178:LEU:HD12	1:A:179:VAL:H	1.58	0.68
1:A:242:MSE:HA	1:A:242:MSE:CE	2.24	0.68
1:C:131:ASP:O	1:C:167:VAL:HG12	1.94	0.68
1:D:200:VAL:HB	1:D:233:THR:OG1	1.93	0.68
1:A:200:VAL:HB	1:A:233:THR:HG22	1.75	0.68
1:B:109:MSE:HE3	1:B:310:TYR:HD2	1.56	0.68
1:D:128:GLY:HA3	1:D:201:ASP:HB3	1.75	0.68
1:B:198:VAL:HG23	1:B:225:LEU:HD21	1.76	0.68
1:B:295:PRO:HA	2:B:444:HOH:O	1.94	0.68
1:A:237:SER:H	1:A:241:HIS:HD2	1.42	0.68
1:A:267:VAL:HG11	1:A:270:TYR:CD2	2.28	0.68
1:A:173:ASP:HB3	1:A:176:VAL:HG23	1.75	0.68
1:A:43:VAL:H	1:C:162:GLN:NE2	1.92	0.68
1:A:43:VAL:N	1:C:162:GLN:HE22	1.92	0.67
1:B:207:GLY:HA3	2:B:460:HOH:O	1.92	0.67
1:D:153:ASP:OD2	1:D:155:MSE:HB2	1.92	0.67
1:B:127:ILE:HD11	1:B:187:LEU:CD2	2.24	0.67
1:A:162:GLN:O	1:A:162:GLN:HG2	1.94	0.67
1:C:99:THR:O	1:C:103:GLU:HB3	1.94	0.67
1:B:80:VAL:HG21	1:B:159:VAL:HG11	1.75	0.67
1:B:92:LEU:HD12	1:B:97:GLN:HG2	1.75	0.67
1:C:99:THR:HB	1:C:102:ASP:OD1	1.95	0.67
1:C:296:ILE:HG22	1:C:307:LEU:HD11	1.75	0.67
1:A:52:SER:HB3	1:A:55:TRP:CE2	2.29	0.67
1:A:238:LEU:HA	1:A:242:MSE:HE3	1.75	0.67
1:D:198:VAL:HG23	1:D:225:LEU:HD21	1.76	0.67
1:A:234:GLN:NE2	1:A:275:ILE:HD11	2.04	0.67
1:B:166:ASP:O	1:B:167:VAL:HG13	1.94	0.67
1:C:118:ILE:HD11	1:C:121:PRO:HB3	1.76	0.67
1:D:187:LEU:HD21	1:D:221:VAL:HG22	1.75	0.67
1:A:70:GLN:HB3	1:C:48:PHE:HD1	1.59	0.67
1:D:76:GLN:HB2	1:D:93:ASP:OD2	1.94	0.67
1:A:76:GLN:NE2	1:A:156:VAL:HG21	2.08	0.67
1:C:313:GLU:HB2	2:C:404:HOH:O	1.94	0.67
1:D:68:LEU:HD12	1:D:68:LEU:N	2.10	0.67
1:A:51:MSE:N	1:A:51:MSE:SE	2.78	0.67
1:C:161:LYS:HA	1:C:168:ALA:HB1	1.74	0.67
1:B:241:HIS:HD2	2:B:378:HOH:O	1.78	0.67
1:B:263:ALA:HB2	1:B:319:PHE:CD1	2.30	0.67
1:D:261:ASN:HD22	1:D:289:PHE:HD2	1.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:MSE:HE1	1:A:310:TYR:HB2	1.76	0.67
1:C:109:MSE:HE1	1:C:310:TYR:HD2	1.60	0.67
1:A:173:ASP:HB3	1:A:176:VAL:HG23	1.77	0.67
1:B:162:GLN:HG3	2:B:411:HOH:O	1.93	0.67
1:D:236:GLU:HB3	1:D:241:HIS:HB2	1.76	0.67
1:A:245:ILE:HA	1:A:248:ILE:HD12	1.75	0.67
1:B:292:PRO:HD3	1:B:315:HIS:CD2	2.29	0.67
1:B:279:LEU:HD22	1:B:279:LEU:H	1.60	0.67
1:D:51:MSE:HA	1:D:55:TRP:HE1	1.60	0.67
1:A:220:SER:O	1:A:223:ARG:HG2	1.95	0.66
1:B:166:ASP:O	1:B:167:VAL:HG13	1.95	0.66
1:B:210:LYS:O	1:B:210:LYS:HD3	1.94	0.66
1:B:104:CYS:O	1:B:108:GLU:HB2	1.94	0.66
1:B:223:ARG:HH21	1:B:224:ALA:HA	1.59	0.66
1:D:130:GLY:HA2	2:D:553:HOH:O	1.95	0.66
1:D:261:ASN:HD22	1:D:289:PHE:HD2	1.43	0.66
1:D:90:LEU:HB3	1:D:98:LEU:HG	1.76	0.66
1:A:72:LYS:H	1:C:51:MSE:HE2	1.60	0.66
1:D:111:THR:CG2	1:D:134:VAL:HG13	2.26	0.66
1:B:278:MSE:HE3	1:B:280:CYS:SG	2.36	0.66
1:D:120:ASN:HD21	1:D:122:LYS:HE3	1.60	0.66
1:A:299:SER:C	1:A:301:SER:H	1.97	0.66
1:C:311:ASN:OD1	1:C:312:ALA:N	2.29	0.66
1:D:198:VAL:HB	1:D:231:VAL:CG2	2.23	0.66
1:A:130:GLY:HA2	1:A:171:TYR:OH	1.96	0.66
1:B:51:MSE:HG2	1:B:59:ALA:HB2	1.76	0.66
1:C:136:ARG:NH1	1:C:167:VAL:HG22	2.10	0.66
1:B:109:MSE:HE1	1:B:310:TYR:CD2	2.26	0.66
1:C:154:LYS:O	1:C:154:LYS:HD3	1.95	0.66
1:B:139:ALA:HB1	1:B:175:ARG:NH2	2.09	0.66
1:C:152:ILE:HA	1:C:181:GLY:N	2.11	0.66
1:A:51:MSE:HE2	1:C:72:LYS:O	1.95	0.66
1:B:223:ARG:HD2	2:B:477:HOH:O	1.95	0.66
1:A:161:LYS:HA	1:A:168:ALA:CB	2.25	0.66
1:D:195:TYR:HB2	1:D:225:LEU:HD23	1.78	0.66
1:C:152:ILE:HD12	1:C:182:ASP:HA	1.78	0.66
1:B:40:PHE:CD1	1:C:42:THR:HG21	2.31	0.66
1:D:92:LEU:HD12	1:D:97:GLN:HG2	1.76	0.66
1:B:98:LEU:HD13	1:B:103:GLU:OE2	1.95	0.66
1:D:238:LEU:HD22	1:D:325:ALA:HB1	1.78	0.66
1:A:178:LEU:HD12	1:A:179:VAL:H	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:152:ILE:HA	1:C:181:GLY:H	1.60	0.66
1:B:173:ASP:HB3	1:B:176:VAL:HG23	1.77	0.66
1:B:163:PHE:C	1:B:165:PRO:HD3	2.15	0.66
1:A:317:ALA:O	1:A:319:PHE:N	2.29	0.66
1:A:165:PRO:HG2	1:A:166:ASP:H	1.60	0.66
1:A:63:LYS:HB3	1:A:84:ALA:CB	2.26	0.66
1:C:257:LYS:HB2	1:C:283:GLU:OE2	1.96	0.66
1:D:228:GLY:HA3	1:D:285:PRO:HD2	1.78	0.66
1:A:66:LYS:HG2	1:A:82:GLN:HB3	1.77	0.66
1:A:239:TRP:HD1	1:A:274:VAL:HG21	1.61	0.66
1:C:292:PRO:HB3	1:C:315:HIS:ND1	2.10	0.66
1:D:231:VAL:HG21	1:D:256:PHE:CZ	2.31	0.66
1:A:52:SER:HB3	1:A:55:TRP:CE2	2.31	0.65
1:A:196:ASP:HA	1:A:226:ARG:HH21	1.59	0.65
1:C:242:MSE:HG2	2:C:397:HOH:O	1.94	0.65
1:A:178:LEU:HD12	1:A:179:VAL:H	1.61	0.65
1:D:184:VAL:HG22	1:D:217:PHE:CD1	2.31	0.65
1:C:76:GLN:NE2	1:C:92:LEU:HB3	2.11	0.65
1:A:241:HIS:ND1	2:A:425:HOH:O	2.29	0.65
1:D:190:ALA:HA	2:D:401:HOH:O	1.96	0.65
1:A:329:ILE:HG22	1:A:329:ILE:O	1.96	0.65
1:D:270:TYR:CD2	1:D:275:ILE:HB	2.31	0.65
1:C:105:ALA:HB1	1:C:267:VAL:HG22	1.78	0.65
1:C:296:ILE:HG23	1:C:300:SER:HB2	1.79	0.65
1:B:290:LYS:HG2	1:B:291:HIS:CE1	2.31	0.65
1:B:68:LEU:HB3	1:B:163:PHE:CE1	2.31	0.65
1:D:162:GLN:HG2	1:D:162:GLN:O	1.95	0.65
1:C:86:TYR:HB3	1:C:99:THR:CG2	2.26	0.65
1:B:242:MSE:HA	1:B:242:MSE:CE	2.26	0.65
1:C:142:ALA:O	1:C:144:ILE:N	2.29	0.65
1:B:150:CYS:O	1:B:151:GLU:HB2	1.97	0.65
1:A:261:ASN:HD22	1:A:289:PHE:HD2	1.42	0.65
1:C:129:GLY:HA3	1:C:151:GLU:HB2	1.79	0.65
1:C:161:LYS:HG3	1:C:168:ALA:HB1	1.77	0.65
1:C:232:CYS:HA	1:C:278:MSE:O	1.97	0.65
1:A:169:ILE:HD12	1:A:172:GLU:OE2	1.97	0.65
1:B:231:VAL:HG22	1:B:232:CYS:N	2.10	0.65
1:D:123:LYS:HE3	1:D:146:GLN:OE1	1.97	0.65
1:B:152:ILE:HA	1:B:180:ILE:HG23	1.78	0.65
1:A:136:ARG:HH11	1:A:137:GLU:HG2	1.61	0.65
1:A:109:MSE:HE2	1:A:265:THR:OG1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:MSE:SE	1:B:206:ILE:HB	2.47	0.65
1:D:104:CYS:O	1:D:108:GLU:HB2	1.96	0.65
1:A:104:CYS:O	1:A:108:GLU:HG3	1.96	0.65
1:D:193:GLY:O	1:D:226:ARG:HB3	1.96	0.65
1:B:234:GLN:HA	1:B:277:PHE:CD1	2.31	0.65
1:C:141:HIS:ND1	2:C:341:HOH:O	2.29	0.65
1:A:161:LYS:HA	1:A:168:ALA:HB2	1.79	0.65
1:D:162:GLN:HG2	1:D:162:GLN:O	1.96	0.65
1:C:210:LYS:O	1:C:214:GLU:HG2	1.97	0.65
1:D:202:SER:OG	1:D:234:GLN:HB3	1.96	0.65
1:A:267:VAL:HG11	1:A:270:TYR:CD2	2.32	0.65
1:C:228:GLY:HA3	1:C:285:PRO:HD2	1.78	0.65
1:A:53:PRO:O	1:A:56:PRO:HD3	1.97	0.65
1:B:98:LEU:C	1:B:98:LEU:HD12	2.17	0.65
1:B:168:ALA:HA	1:B:171:TYR:HD2	1.62	0.65
1:C:236:GLU:HB3	1:C:241:HIS:CD2	2.31	0.65
1:A:238:LEU:HD11	1:A:321:LEU:HD22	1.79	0.65
1:D:48:PHE:O	1:D:61:SER:HA	1.97	0.65
1:D:162:GLN:HG2	1:D:162:GLN:O	1.95	0.65
1:A:109:MSE:HE1	1:A:310:TYR:HB2	1.79	0.65
1:A:297:ASP:O	1:A:298:GLU:HB2	1.97	0.65
1:A:109:MSE:HE2	1:A:265:THR:CB	2.27	0.65
1:B:326:LYS:O	1:B:330:GLU:HG2	1.97	0.65
1:B:234:GLN:OE1	1:B:236:GLU:N	2.23	0.65
1:D:69:PHE:HB2	1:D:163:PHE:CZ	2.31	0.65
1:B:42:THR:HA	1:B:49:SER:HB2	1.77	0.65
1:B:92:LEU:HD12	1:B:97:GLN:HE21	1.60	0.65
1:D:128:GLY:HA2	2:D:551:HOH:O	1.96	0.65
1:A:329:ILE:O	1:A:330:GLU:HB2	1.96	0.65
1:D:152:ILE:HA	1:D:181:GLY:H	1.61	0.65
1:B:243:ASP:HA	1:B:246:GLU:CD	2.17	0.65
1:D:109:MSE:HE1	1:D:310:TYR:N	2.11	0.65
1:A:51:MSE:CE	1:C:72:LYS:H	2.09	0.65
1:B:114:PRO:HB3	1:B:232:CYS:HB2	1.78	0.65
1:D:198:VAL:HG23	1:D:225:LEU:HD21	1.79	0.64
1:B:126:VAL:O	1:B:149:MSE:HG2	1.96	0.64
1:D:99:THR:CG2	1:D:269:THR:HG21	2.27	0.64
1:B:265:THR:HG22	1:B:277:PHE:HE2	1.62	0.64
1:C:221:VAL:CG1	1:C:231:VAL:HG21	2.27	0.64
1:A:215:LYS:HD3	1:A:255:ILE:HD11	1.79	0.64
1:D:106:TYR:OH	1:D:234:GLN:HG3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:LEU:HD12	1:A:179:VAL:N	2.10	0.64
1:B:210:LYS:O	1:B:210:LYS:HD3	1.97	0.64
1:B:271:PRO:HB3	2:B:447:HOH:O	1.97	0.64
1:B:112:HIS:O	1:B:116:CYS:HB2	1.98	0.64
1:A:223:ARG:HD2	2:A:360:HOH:O	1.97	0.64
1:A:107:GLN:HE22	1:A:133:GLY:HA3	1.60	0.64
1:A:179:VAL:HG11	1:A:186:PHE:HD2	1.62	0.64
1:B:39:CYS:SG	1:C:41:SER:HB3	2.38	0.64
1:A:42:THR:HA	1:C:162:GLN:OE1	1.97	0.64
1:A:99:THR:O	1:A:103:GLU:HB3	1.98	0.64
1:B:263:ALA:HB2	1:B:319:PHE:CD1	2.31	0.64
1:A:78:VAL:O	1:A:79:ILE:HG13	1.97	0.64
1:C:162:GLN:HG3	2:C:467:HOH:O	1.97	0.64
1:C:249:VAL:HG22	1:C:278:MSE:SE	2.46	0.64
1:D:118:ILE:HD11	1:D:121:PRO:HB3	1.79	0.64
1:D:218:PHE:O	1:D:255:ILE:HG21	1.96	0.64
1:A:187:LEU:HD11	1:A:224:ALA:CB	2.27	0.64
1:B:292:PRO:HD3	1:B:315:HIS:CD2	2.32	0.64
1:D:265:THR:OG1	2:D:563:HOH:O	2.14	0.64
1:D:243:ASP:OD1	1:D:244:ILE:HG13	1.98	0.64
1:A:238:LEU:HA	1:A:245:ILE:HD12	1.79	0.64
1:D:122:LYS:HE2	1:D:122:LYS:HA	1.78	0.64
1:B:234:GLN:OE1	1:B:236:GLU:N	2.28	0.64
1:A:136:ARG:HD3	1:A:166:ASP:O	1.98	0.64
1:B:149:MSE:HB3	1:B:178:LEU:HD12	1.80	0.64
1:C:265:THR:OG1	1:C:267:VAL:HG23	1.98	0.64
1:A:68:LEU:HB2	1:A:80:VAL:O	1.98	0.64
1:C:227:PRO:HB3	1:C:284:GLY:HA3	1.79	0.64
1:D:109:MSE:HE3	1:D:109:MSE:HA	1.80	0.64
1:B:61:SER:O	1:C:58:GLU:HB2	1.98	0.64
1:A:265:THR:HG22	1:A:275:ILE:HG22	1.80	0.64
1:A:136:ARG:HD3	1:A:166:ASP:O	1.98	0.64
1:A:260:VAL:HG12	1:A:280:CYS:SG	2.38	0.64
1:C:296:ILE:CG2	1:C:307:LEU:HD11	2.27	0.64
1:A:226:ARG:HB2	1:A:227:PRO:HD2	1.79	0.64
1:C:152:ILE:HD12	1:C:182:ASP:HA	1.78	0.64
1:A:311:ASN:ND2	1:A:314:ILE:HD13	2.13	0.64
1:A:314:ILE:HD11	1:D:321:LEU:O	1.97	0.64
1:C:235:ALA:O	1:C:236:GLU:HB2	1.96	0.64
1:B:249:VAL:HA	1:B:278:MSE:HE2	1.80	0.64
1:B:327:LYS:HA	1:B:330:GLU:OE2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:191:ALA:HB3	1:A:194:SER:HB3	1.80	0.64
1:C:99:THR:OG1	1:C:269:THR:HG21	1.98	0.64
1:C:136:ARG:NH1	1:C:166:ASP:HB3	2.13	0.64
1:C:109:MSE:HE3	1:C:109:MSE:HA	1.78	0.64
1:A:308:LYS:O	1:D:324:PHE:HB3	1.98	0.64
1:A:182:ASP:OD2	1:A:184:VAL:HG22	1.98	0.64
1:C:97:GLN:HA	1:C:97:GLN:NE2	2.13	0.64
1:C:97:GLN:HA	1:C:97:GLN:HE21	1.63	0.64
1:A:72:LYS:HB3	1:C:51:MSE:HB2	1.80	0.64
1:A:116:CYS:SG	1:A:295:PRO:HA	2.38	0.64
1:D:135:LEU:HD11	1:D:149:MSE:SE	2.49	0.63
1:A:135:LEU:CD2	1:A:149:MSE:HE2	2.28	0.63
1:C:87:GLY:O	1:C:89:VAL:HG23	1.99	0.63
1:C:223:ARG:HA	2:C:477:HOH:O	1.98	0.63
1:C:123:LYS:HA	1:C:146:GLN:O	1.98	0.63
1:A:54:MSE:HE1	1:A:244:ILE:CD1	2.28	0.63
1:C:161:LYS:HA	1:C:168:ALA:CB	2.28	0.63
1:A:73:SER:HA	1:A:155:MSE:CE	2.27	0.63
1:A:242:MSE:HE2	1:A:325:ALA:HA	1.80	0.63
1:C:252:CYS:SG	1:C:278:MSE:HE2	2.38	0.63
1:A:72:LYS:HB3	1:C:51:MSE:HB2	1.79	0.63
1:C:73:SER:HB2	2:C:339:HOH:O	1.98	0.63
1:D:265:THR:O	1:D:274:VAL:HA	1.97	0.63
1:B:68:LEU:HB3	1:B:163:PHE:CE1	2.33	0.63
1:B:152:ILE:HG13	1:B:182:ASP:HA	1.80	0.63
1:C:215:LYS:H	1:C:216:PRO:HD3	1.64	0.63
1:C:232:CYS:HB2	1:C:279:LEU:HD13	1.80	0.63
1:A:231:VAL:HG12	1:A:280:CYS:HB2	1.80	0.63
1:C:134:VAL:O	1:C:138:VAL:HG23	1.97	0.63
1:B:98:LEU:HD13	1:B:103:GLU:OE2	1.98	0.63
1:B:113:LEU:HA	1:B:315:HIS:CE1	2.33	0.63
1:D:132:GLY:HA3	1:D:167:VAL:O	1.99	0.63
1:C:50:GLU:O	1:C:50:GLU:HG2	1.99	0.63
1:A:162:GLN:HE22	1:C:43:VAL:N	1.97	0.63
1:B:123:LYS:HB3	1:B:195:TYR:HA	1.80	0.63
1:C:68:LEU:HB2	1:C:80:VAL:O	1.98	0.63
1:A:297:ASP:O	1:A:298:GLU:HB2	1.99	0.63
1:D:134:VAL:O	1:D:138:VAL:HG23	1.98	0.63
1:D:163:PHE:C	1:D:165:PRO:HD3	2.19	0.63
1:D:192:GLU:HB2	1:D:223:ARG:HH11	1.63	0.63
1:A:182:ASP:OD1	1:A:184:VAL:HG22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:ARG:HD3	2:A:360:HOH:O	1.97	0.63
1:B:43:VAL:HG12	1:C:44:ILE:HB	1.80	0.63
1:B:215:LYS:HB2	1:B:216:PRO:HD3	1.79	0.63
1:A:214:GLU:HA	1:A:251:ASN:ND2	2.14	0.63
1:A:193:GLY:HA2	1:A:225:LEU:O	1.98	0.63
1:B:126:VAL:HG22	1:B:199:ILE:HD12	1.80	0.63
1:C:236:GLU:HB3	1:C:241:HIS:CD2	2.33	0.63
1:C:301:SER:HB3	1:C:304:ASN:HB2	1.79	0.63
1:D:122:LYS:HA	1:D:144:ILE:HA	1.81	0.63
1:C:107:GLN:HE21	1:C:133:GLY:HA3	1.63	0.63
1:C:329:ILE:O	1:C:330:GLU:HB2	1.98	0.63
1:C:96:ILE:HG21	1:C:269:THR:HG21	1.80	0.63
1:A:152:ILE:HG23	1:A:152:ILE:O	1.98	0.63
1:A:223:ARG:HD2	2:A:360:HOH:O	1.99	0.63
1:C:73:SER:CB	1:C:155:MSE:HG3	2.29	0.63
1:A:153:ASP:OD1	1:A:155:MSE:HB2	1.99	0.63
1:A:223:ARG:HD3	2:A:360:HOH:O	1.98	0.63
1:B:149:MSE:O	1:B:150:CYS:HB2	1.98	0.63
1:C:61:SER:O	1:C:62:LEU:HD23	1.99	0.63
1:A:127:ILE:HD11	1:A:187:LEU:HD11	1.81	0.63
1:A:311:ASN:O	1:A:315:HIS:HB2	1.99	0.63
1:B:83:SER:HB3	1:B:87:GLY:O	1.99	0.63
1:B:169:ILE:HD12	1:B:172:GLU:CG	2.29	0.63
1:C:147:ILE:O	1:C:176:VAL:HA	1.99	0.63
1:C:249:VAL:HA	1:C:278:MSE:CE	2.29	0.63
1:C:301:SER:HB3	1:C:304:ASN:HD22	1.64	0.63
1:D:111:THR:O	1:D:115:LEU:HB2	1.99	0.63
1:B:262:TYR:OH	1:B:276:GLY:HA3	1.98	0.63
1:C:292:PRO:CB	1:C:295:PRO:HB3	2.27	0.63
1:C:88:LYS:H	1:C:100:GLU:HG3	1.64	0.63
1:C:112:HIS:O	1:C:116:CYS:HB2	1.98	0.63
1:A:178:LEU:HD12	1:A:179:VAL:N	2.12	0.63
1:B:54:MSE:SE	1:B:204:ASP:HB3	2.49	0.63
1:B:109:MSE:O	1:B:113:LEU:HG	1.98	0.63
1:A:51:MSE:HE3	1:D:44:ILE:HD13	1.81	0.63
1:A:46:GLY:HA3	1:A:63:LYS:NZ	2.14	0.63
1:B:182:ASP:OD2	1:B:184:VAL:HG12	1.98	0.63
1:D:87:GLY:HA3	1:D:100:GLU:HB2	1.80	0.62
1:D:151:GLU:HG2	1:D:157:VAL:HG22	1.80	0.62
1:D:125:LEU:HG	1:D:127:ILE:HG13	1.80	0.62
1:B:123:LYS:NZ	1:B:146:GLN:NE2	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:200:VAL:HB	1:A:233:THR:HG22	1.81	0.62
1:B:292:PRO:HB3	1:B:315:HIS:CE1	2.33	0.62
1:D:198:VAL:HG23	1:D:225:LEU:HD21	1.80	0.62
1:A:260:VAL:CB	1:A:278:MSE:HE1	2.29	0.62
1:C:311:ASN:O	1:C:314:ILE:HG22	1.99	0.62
1:C:297:ASP:OD1	1:C:298:GLU:N	2.32	0.62
1:D:68:LEU:HB2	1:D:80:VAL:O	1.99	0.62
1:C:129:GLY:CA	1:C:151:GLU:HB2	2.29	0.62
1:A:121:PRO:HA	2:A:386:HOH:O	2.00	0.62
1:D:278:MSE:HE2	1:D:278:MSE:HA	1.78	0.62
1:C:180:ILE:N	1:C:180:ILE:HD12	2.15	0.62
1:A:259:SER:N	1:A:281:SER:HB3	2.04	0.62
1:A:86:TYR:HB3	1:A:99:THR:CG2	2.30	0.62
1:A:295:PRO:HB2	1:A:310:TYR:HE1	1.64	0.62
1:B:173:ASP:HB3	1:B:176:VAL:HG23	1.80	0.62
1:C:238:LEU:HA	1:C:242:MSE:HE3	1.81	0.62
1:B:107:GLN:NE2	1:B:133:GLY:HA3	2.14	0.62
1:B:166:ASP:O	1:B:167:VAL:HG13	2.00	0.62
1:D:245:ILE:C	1:D:247:ASP:H	2.01	0.62
1:B:130:GLY:HA2	1:B:171:TYR:OH	1.99	0.62
1:A:43:VAL:HG13	1:D:43:VAL:HA	1.81	0.62
1:B:108:GLU:OE1	1:B:307:LEU:HB3	1.99	0.62
1:A:51:MSE:CE	1:C:71:GLY:HA3	2.30	0.62
1:C:152:ILE:HD12	1:C:182:ASP:HA	1.81	0.62
1:C:200:VAL:HB	1:C:233:THR:HG22	1.80	0.62
1:A:226:ARG:NH1	2:A:414:HOH:O	2.32	0.62
1:C:180:ILE:HD12	1:C:180:ILE:H	1.64	0.62
1:D:99:THR:CG2	1:D:269:THR:HG21	2.29	0.62
1:D:163:PHE:C	1:D:165:PRO:HD3	2.20	0.62
1:A:99:THR:HG22	1:A:101:ARG:H	1.62	0.62
1:A:154:LYS:HB2	1:A:180:ILE:HD13	1.81	0.62
1:A:179:VAL:HG21	1:A:186:PHE:CE2	2.34	0.62
1:A:219:GLN:OE1	1:A:255:ILE:HD12	1.99	0.62
1:C:86:TYR:CB	1:C:99:THR:HG21	2.30	0.62
1:D:253:ARG:NH1	1:D:330:GLU:HB2	2.15	0.62
1:D:130:GLY:HA2	2:D:553:HOH:O	1.98	0.62
1:C:236:GLU:HB3	1:C:241:HIS:CD2	2.31	0.62
1:D:146:GLN:HE21	1:D:177:ASN:CB	2.12	0.62
1:B:320:CYS:SG	1:C:314:ILE:HD12	2.40	0.62
1:C:261:ASN:HD22	1:C:289:PHE:HD2	1.47	0.62
1:B:130:GLY:HA3	1:B:156:VAL:CG1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:311:ASN:ND2	1:D:313:GLU:HB2	2.14	0.62
1:A:236:GLU:HB3	1:A:241:HIS:CD2	2.34	0.62
1:B:42:THR:HA	1:B:49:SER:HB2	1.80	0.62
1:D:271:PRO:O	1:D:272:SER:HB3	1.99	0.62
1:D:124:VAL:HG22	1:D:197:ALA:HB3	1.80	0.62
1:A:135:LEU:HD22	1:A:149:MSE:CE	2.28	0.62
1:C:99:THR:O	1:C:103:GLU:HB3	1.99	0.62
1:B:48:PHE:CZ	1:B:91:VAL:HG11	2.35	0.62
1:B:127:ILE:CD1	1:B:187:LEU:HD22	2.30	0.62
1:C:272:SER:O	1:C:274:VAL:N	2.32	0.62
1:B:236:GLU:HB3	1:B:241:HIS:CE1	2.33	0.62
1:C:203:SER:O	1:C:204:ASP:HB2	2.00	0.62
1:C:297:ASP:OD1	1:C:298:GLU:N	2.33	0.62
1:A:44:ILE:HD12	1:D:51:MSE:CE	2.25	0.62
1:A:108:GLU:HB3	1:A:310:TYR:HB3	1.80	0.62
1:B:109:MSE:CE	1:B:310:TYR:HD2	2.12	0.62
1:A:260:VAL:HB	1:A:278:MSE:CE	2.29	0.62
1:C:226:ARG:HB2	1:C:227:PRO:CD	2.30	0.62
1:B:43:VAL:HG23	1:B:44:ILE:HG13	1.81	0.62
1:D:151:GLU:HG2	1:D:157:VAL:HG23	1.81	0.62
1:C:73:SER:HB2	2:C:339:HOH:O	2.00	0.62
1:A:214:GLU:HA	1:A:251:ASN:HD22	1.65	0.62
1:D:69:PHE:CE2	1:D:78:VAL:HB	2.31	0.62
1:A:80:VAL:HG21	1:A:159:VAL:HB	1.82	0.62
1:C:85:THR:O	1:C:101:ARG:HD2	1.99	0.62
1:D:242:MSE:HE3	1:D:325:ALA:HA	1.81	0.62
1:A:55:TRP:HH2	1:A:95:VAL:HG22	1.65	0.62
1:D:70:GLN:HE22	1:D:79:ILE:HD11	1.64	0.62
1:A:72:LYS:HB3	1:C:51:MSE:HB2	1.82	0.62
1:B:275:ILE:HD13	2:B:347:HOH:O	2.00	0.62
1:C:104:CYS:O	1:C:108:GLU:HB2	2.00	0.62
1:C:109:MSE:HE1	1:C:314:ILE:CG2	2.30	0.62
1:D:55:TRP:HB3	1:D:240:LEU:HD13	1.81	0.62
1:D:118:ILE:HD11	1:D:121:PRO:HB3	1.82	0.62
1:A:86:TYR:HB3	1:A:99:THR:CG2	2.29	0.62
1:A:86:TYR:HB3	1:A:99:THR:HG21	1.81	0.62
1:A:238:LEU:HD23	1:A:245:ILE:HD13	1.82	0.62
1:B:68:LEU:HB3	1:B:163:PHE:CE1	2.35	0.62
1:C:110:ILE:O	1:C:110:ILE:HG23	1.99	0.62
1:D:120:ASN:HD21	1:D:122:LYS:HE3	1.65	0.62
1:A:80:VAL:HG21	1:A:159:VAL:HG12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:ILE:HD12	1:A:182:ASP:HA	1.81	0.62
1:B:125:LEU:HG	1:B:127:ILE:HG13	1.81	0.62
1:B:137:GLU:O	1:B:140:ARG:HB3	2.00	0.62
1:C:83:SER:HB2	1:C:89:VAL:HG23	1.82	0.62
1:C:112:HIS:HB3	1:C:116:CYS:SG	2.39	0.62
1:C:152:ILE:HG23	1:C:153:ASP:N	2.14	0.62
1:A:87:GLY:N	2:A:453:HOH:O	2.33	0.62
1:B:98:LEU:HD13	1:B:103:GLU:OE2	2.00	0.62
1:B:127:ILE:HD11	1:B:187:LEU:CD2	2.30	0.62
1:A:261:ASN:HD22	1:A:289:PHE:HD2	1.48	0.61
1:C:236:GLU:HB3	1:C:241:HIS:HD2	1.66	0.61
1:B:169:ILE:HD12	1:B:172:GLU:CG	2.29	0.61
1:C:95:VAL:HB	1:C:97:GLN:NE2	2.15	0.61
1:A:228:GLY:HA2	1:A:282:THR:O	1.99	0.61
1:C:249:VAL:HA	1:C:278:MSE:CE	2.30	0.61
1:D:99:THR:HG23	1:D:269:THR:HG21	1.82	0.61
1:A:126:VAL:HB	1:A:149:MSE:CG	2.30	0.61
1:D:99:THR:HG23	1:D:269:THR:HG21	1.82	0.61
1:B:152:ILE:HD12	1:B:181:GLY:O	2.00	0.61
1:C:154:LYS:HB2	1:C:180:ILE:HD13	1.81	0.61
1:A:86:TYR:CD2	1:A:99:THR:HG21	2.33	0.61
1:B:248:ILE:CG2	1:B:278:MSE:HG3	2.29	0.61
1:B:193:GLY:HA2	1:B:225:LEU:O	2.00	0.61
1:B:231:VAL:HG22	1:B:232:CYS:N	2.15	0.61
1:A:44:ILE:HD12	1:D:51:MSE:HE1	1.83	0.61
1:A:55:TRP:CD1	1:A:58:GLU:HG3	2.30	0.61
1:A:215:LYS:HG2	1:A:255:ILE:HG12	1.82	0.61
1:A:135:LEU:HB2	1:A:149:MSE:CE	2.29	0.61
1:D:271:PRO:O	1:D:272:SER:HB2	2.00	0.61
1:A:121:PRO:HA	1:A:196:ASP:OD1	2.00	0.61
1:B:241:HIS:HD2	2:B:375:HOH:O	1.82	0.61
1:A:123:LYS:HD3	1:A:194:SER:O	2.01	0.61
1:B:242:MSE:HG3	1:B:328:VAL:HG11	1.82	0.61
1:D:151:GLU:HG2	1:D:157:VAL:HG23	1.80	0.61
1:A:79:ILE:HB	1:A:91:VAL:HB	1.81	0.61
1:B:242:MSE:O	1:B:246:GLU:HG3	2.00	0.61
1:D:55:TRP:HB3	1:D:240:LEU:HD13	1.81	0.61
1:B:242:MSE:HB2	2:B:479:HOH:O	1.99	0.61
1:C:296:ILE:HG22	1:C:307:LEU:HD11	1.80	0.61
1:C:271:PRO:O	1:C:272:SER:HB3	1.99	0.61
1:C:161:LYS:HA	1:C:168:ALA:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:53:PRO:O	1:A:56:PRO:HD3	2.00	0.61
1:C:154:LYS:HB2	1:C:180:ILE:HG12	1.82	0.61
1:D:83:SER:HB3	1:D:89:VAL:HG21	1.83	0.61
1:A:279:LEU:HB3	1:A:289:PHE:CD2	2.35	0.61
1:D:226:ARG:HD3	1:D:226:ARG:N	2.15	0.61
1:C:127:ILE:HD11	1:C:187:LEU:HD13	1.81	0.61
1:C:236:GLU:HB3	1:C:241:HIS:CD2	2.34	0.61
1:A:227:PRO:HB2	1:A:285:PRO:HD3	1.81	0.61
1:C:295:PRO:HG3	1:C:312:ALA:HB2	1.83	0.61
1:A:46:GLY:HA3	1:A:63:LYS:NZ	2.14	0.61
1:A:212:LEU:HA	1:A:217:PHE:CD2	2.35	0.61
1:B:249:VAL:HG11	1:B:329:ILE:HG23	1.83	0.61
1:C:73:SER:HB2	2:C:339:HOH:O	2.01	0.61
1:D:131:ASP:O	1:D:167:VAL:HB	2.00	0.61
1:B:134:VAL:O	1:B:138:VAL:HG23	2.00	0.61
1:B:206:ILE:HG22	2:B:359:HOH:O	2.00	0.61
1:B:271:PRO:O	1:B:272:SER:HB3	2.01	0.61
1:C:129:GLY:H	1:C:151:GLU:HB2	1.66	0.61
1:D:228:GLY:HA3	1:D:285:PRO:HD2	1.82	0.61
1:D:327:LYS:HD3	2:D:340:HOH:O	2.00	0.61
1:B:248:ILE:HG21	1:B:278:MSE:HG3	1.82	0.61
1:C:236:GLU:HB2	1:C:245:ILE:HG13	1.81	0.61
1:D:92:LEU:HB2	1:D:97:GLN:HE21	1.65	0.61
1:A:123:LYS:HD3	1:A:194:SER:O	2.01	0.61
1:B:98:LEU:C	1:B:98:LEU:HD12	2.20	0.61
1:C:131:ASP:HA	1:C:160:SER:HB3	1.82	0.61
1:D:198:VAL:HG23	1:D:225:LEU:HD21	1.82	0.61
1:A:310:TYR:HA	1:A:314:ILE:HG21	1.83	0.61
1:C:242:MSE:CE	1:C:329:ILE:HD11	2.31	0.61
1:D:261:ASN:HD22	1:D:289:PHE:HD2	1.49	0.61
1:A:52:SER:HB3	1:A:55:TRP:CE2	2.36	0.61
1:A:78:VAL:HB	1:A:155:MSE:SE	2.51	0.61
1:A:67:VAL:HG21	1:C:64:VAL:HG11	1.82	0.61
1:C:105:ALA:CB	1:C:267:VAL:HG22	2.30	0.61
1:B:48:PHE:HE2	1:B:96:ILE:HD11	1.65	0.61
1:C:123:LYS:HE3	1:C:195:TYR:CE1	2.35	0.61
1:A:104:CYS:CB	1:A:308:LYS:HE2	2.30	0.61
1:A:124:VAL:HG13	1:A:197:ALA:HB3	1.82	0.61
1:C:321:LEU:HD13	1:C:329:ILE:HD12	1.83	0.61
1:D:179:VAL:HG12	1:D:181:GLY:H	1.65	0.61
1:A:51:MSE:SE	1:C:72:LYS:H	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:ILE:CG2	1:B:278:MSE:HG3	2.31	0.61
1:C:200:VAL:HB	1:C:233:THR:HG22	1.83	0.61
1:C:79:ILE:HB	1:C:91:VAL:HB	1.82	0.61
1:D:54:MSE:SE	1:D:204:ASP:HB3	2.50	0.61
1:D:109:MSE:HE3	1:D:309:PHE:CD2	2.36	0.61
1:D:310:TYR:CZ	1:D:315:HIS:HB2	2.36	0.61
1:B:248:ILE:HG22	1:B:278:MSE:HG3	1.83	0.61
1:B:263:ALA:HB2	1:B:319:PHE:CE1	2.36	0.61
1:C:296:ILE:CG2	1:C:307:LEU:HD21	2.31	0.60
1:D:231:VAL:HG21	1:D:256:PHE:CZ	2.36	0.60
1:C:230:VAL:HA	1:C:280:CYS:O	2.01	0.60
1:A:242:MSE:HE2	1:A:245:ILE:HD12	1.82	0.60
1:A:135:LEU:H	1:A:135:LEU:HD12	1.65	0.60
1:C:327:LYS:HG3	1:C:328:VAL:N	2.15	0.60
1:B:151:GLU:O	1:B:180:ILE:HA	2.01	0.60
1:A:129:GLY:HA2	1:A:201:ASP:OD2	2.01	0.60
1:D:128:GLY:HA3	2:D:553:HOH:O	2.00	0.60
1:A:98:LEU:HB2	1:A:103:GLU:CB	2.29	0.60
1:C:86:TYR:HB3	1:C:99:THR:HG23	1.82	0.60
1:C:99:THR:HG22	1:C:101:ARG:H	1.65	0.60
1:C:311:ASN:HD22	1:C:314:ILE:HB	1.64	0.60
1:A:44:ILE:N	1:A:44:ILE:HD12	2.16	0.60
1:A:58:GLU:HA	1:D:61:SER:O	2.01	0.60
1:D:109:MSE:HE1	1:D:310:TYR:HB2	1.80	0.60
1:A:52:SER:HB3	1:A:55:TRP:CE2	2.36	0.60
1:A:187:LEU:HB3	1:A:220:SER:OG	2.00	0.60
1:B:123:LYS:HE3	1:B:146:GLN:NE2	2.15	0.60
1:B:259:SER:O	1:B:280:CYS:HA	2.00	0.60
1:B:260:VAL:HG13	1:B:280:CYS:SG	2.41	0.60
1:D:261:ASN:HD22	1:D:289:PHE:HD2	1.49	0.60
1:A:220:SER:O	1:A:223:ARG:HG2	2.01	0.60
1:D:238:LEU:HD12	1:D:264:TRP:CE3	2.35	0.60
1:A:242:MSE:O	1:A:246:GLU:HG3	2.02	0.60
1:B:135:LEU:HD11	1:B:149:MSE:SE	2.51	0.60
1:D:107:GLN:O	1:D:111:THR:HG23	2.01	0.60
1:D:151:GLU:HG2	1:D:157:VAL:HG23	1.82	0.60
1:D:233:THR:HB	1:D:278:MSE:HB2	1.82	0.60
1:D:89:VAL:HG22	1:D:99:THR:HG22	1.81	0.60
1:B:127:ILE:HD11	1:B:187:LEU:CD2	2.30	0.60
1:B:187:LEU:HB3	1:B:220:SER:OG	2.01	0.60
1:A:50:GLU:OE2	1:A:96:ILE:HB	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:MSE:HE2	1:B:278:MSE:HA	1.83	0.60
1:C:257:LYS:HE2	2:C:368:HOH:O	2.01	0.60
1:C:297:ASP:OD1	1:C:298:GLU:N	2.32	0.60
1:B:238:LEU:CD2	1:B:242:MSE:HE1	2.30	0.60
1:C:112:HIS:HB3	1:C:116:CYS:SG	2.40	0.60
1:A:242:MSE:CE	1:A:245:ILE:HD12	2.31	0.60
1:A:200:VAL:HB	1:A:233:THR:CG2	2.30	0.60
1:D:261:ASN:HD22	1:D:289:PHE:HD2	1.49	0.60
1:C:76:GLN:OE1	1:C:92:LEU:HB3	2.01	0.60
1:B:329:ILE:HG22	1:B:329:ILE:O	2.00	0.60
1:A:249:VAL:HA	1:A:278:MSE:HE1	1.83	0.60
1:A:161:LYS:HA	1:A:168:ALA:HB2	1.84	0.60
1:D:115:LEU:HD21	1:D:138:VAL:HG13	1.83	0.60
1:B:205:PRO:HD3	1:B:213:PHE:CZ	2.35	0.60
1:A:263:ALA:HB2	1:A:319:PHE:CE1	2.37	0.60
1:C:131:ASP:O	1:C:167:VAL:HG12	2.01	0.60
1:A:245:ILE:HA	1:A:248:ILE:HD12	1.82	0.60
1:B:48:PHE:CE1	1:B:91:VAL:HG21	2.37	0.60
1:D:111:THR:HG22	1:D:134:VAL:HG13	1.84	0.60
1:B:98:LEU:HD13	1:B:103:GLU:CD	2.22	0.60
1:C:265:THR:O	1:C:274:VAL:HA	2.01	0.60
1:D:235:ALA:HB2	1:D:278:MSE:HG2	1.82	0.60
1:B:124:VAL:HG22	1:B:197:ALA:HB3	1.83	0.60
1:D:200:VAL:HG12	1:D:202:SER:HB3	1.81	0.60
1:D:226:ARG:HG2	1:D:226:ARG:HH21	1.67	0.60
1:B:48:PHE:HZ	1:B:91:VAL:HG11	1.65	0.60
1:D:157:VAL:HG13	1:D:171:TYR:CZ	2.36	0.60
1:C:221:VAL:CG1	1:C:231:VAL:HG11	2.32	0.60
1:C:271:PRO:O	1:C:272:SER:HB2	2.02	0.60
1:D:115:LEU:HD23	1:D:141:HIS:CD2	2.37	0.60
1:C:153:ASP:OD2	1:C:156:VAL:HG23	2.00	0.60
1:D:52:SER:C	1:D:54:MSE:H	2.04	0.60
1:A:178:LEU:HD12	1:A:179:VAL:N	2.15	0.60
1:A:319:PHE:O	1:A:321:LEU:HG	2.02	0.60
1:A:131:ASP:O	1:A:167:VAL:HG12	2.01	0.60
1:B:132:GLY:HA3	1:B:167:VAL:O	2.02	0.60
1:C:237:SER:H	1:C:241:HIS:HD2	1.50	0.60
1:D:149:MSE:HB3	1:D:178:LEU:HA	1.84	0.60
1:A:237:SER:H	1:A:241:HIS:CD2	2.20	0.60
1:B:98:LEU:C	1:B:98:LEU:HD12	2.21	0.60
1:B:130:GLY:O	1:B:131:ASP:HB2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:223:ARG:HD2	2:B:477:HOH:O	2.02	0.60
1:A:238:LEU:HD23	1:A:242:MSE:HE1	1.84	0.60
1:B:118:ILE:HB	1:B:119:PRO:HD2	1.83	0.60
1:D:259:SER:O	1:D:280:CYS:HA	2.02	0.60
1:A:54:MSE:SE	1:A:204:ASP:HB3	2.52	0.60
1:C:238:LEU:HD21	1:C:262:TYR:CE2	2.36	0.60
1:D:257:LYS:NZ	2:D:510:HOH:O	2.35	0.60
1:A:68:LEU:HG	1:A:81:PHE:HA	1.83	0.60
1:B:215:LYS:HB2	1:B:216:PRO:HD3	1.84	0.60
1:D:135:LEU:HD22	1:D:147:ILE:HG21	1.83	0.60
1:A:79:ILE:O	1:A:90:LEU:HD12	2.02	0.60
1:A:182:ASP:O	1:A:184:VAL:N	2.35	0.60
1:A:99:THR:O	1:A:103:GLU:HB3	2.01	0.60
1:B:157:VAL:O	1:B:161:LYS:HG3	2.02	0.59
1:C:66:LYS:HG2	1:C:82:GLN:HB3	1.82	0.59
1:D:313:GLU:CD	1:D:313:GLU:H	2.04	0.59
1:C:283:GLU:N	1:C:283:GLU:OE1	2.34	0.59
1:B:206:ILE:HG23	1:B:207:GLY:N	2.17	0.59
1:C:301:SER:HB3	1:C:304:ASN:ND2	2.13	0.59
1:D:225:LEU:HD11	1:D:231:VAL:CG2	2.32	0.59
1:A:327:LYS:HG3	1:A:328:VAL:N	2.16	0.59
1:A:159:VAL:HG13	1:A:163:PHE:HD2	1.67	0.59
1:A:72:LYS:NZ	1:C:53:PRO:HD3	2.15	0.59
1:C:187:LEU:CD2	1:C:221:VAL:HG22	2.32	0.59
1:A:111:THR:OG1	1:A:134:VAL:HG13	2.01	0.59
1:A:321:LEU:HD13	1:A:329:ILE:HD12	1.83	0.59
1:C:123:LYS:HG3	1:C:146:GLN:HB3	1.83	0.59
1:B:111:THR:OG1	1:B:134:VAL:HG13	2.02	0.59
1:C:296:ILE:HG23	1:C:300:SER:HB2	1.84	0.59
1:B:111:THR:O	1:B:115:LEU:HB2	2.02	0.59
1:B:149:MSE:O	1:B:179:VAL:HG22	2.01	0.59
1:A:122:LYS:N	1:A:196:ASP:OD1	2.30	0.59
1:B:192:GLU:HG3	1:B:223:ARG:HG2	1.83	0.59
1:D:241:HIS:CG	2:D:413:HOH:O	2.55	0.59
1:C:69:PHE:HE2	1:D:45:PRO:HD3	1.67	0.59
1:A:206:ILE:HG23	1:A:207:GLY:N	2.17	0.59
1:A:219:GLN:OE1	1:A:255:ILE:HD12	2.02	0.59
1:D:109:MSE:HE3	1:D:309:PHE:HD2	1.66	0.59
1:A:67:VAL:HG21	1:C:64:VAL:HG11	1.83	0.59
1:D:145:GLU:O	1:D:175:ARG:HB3	2.01	0.59
1:B:157:VAL:CG1	1:B:161:LYS:HE3	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:236:GLU:HB3	1:C:241:HIS:CD2	2.38	0.59
1:A:51:MSE:HE1	1:D:44:ILE:HG21	1.83	0.59
1:C:59:ALA:HA	2:C:373:HOH:O	2.01	0.59
1:C:135:LEU:HD22	1:C:149:MSE:SE	2.51	0.59
1:D:99:THR:HG21	1:D:269:THR:HG21	1.85	0.59
1:D:215:LYS:HZ3	1:D:251:ASN:ND2	1.99	0.59
1:D:69:PHE:HB2	1:D:163:PHE:CE2	2.37	0.59
1:B:164:PHE:O	1:B:167:VAL:HG22	2.01	0.59
1:A:252:CYS:HB3	1:A:280:CYS:SG	2.42	0.59
1:C:206:ILE:HG23	1:C:207:GLY:N	2.17	0.59
1:D:123:LYS:HE3	1:D:146:GLN:OE1	2.02	0.59
1:A:211:GLU:OE1	1:A:212:LEU:HG	2.03	0.59
1:D:80:VAL:HG21	1:D:159:VAL:CG1	2.33	0.59
1:D:109:MSE:HE1	1:D:113:LEU:HD11	1.83	0.59
1:D:89:VAL:HG22	1:D:99:THR:HG22	1.84	0.59
1:A:42:THR:HA	1:C:162:GLN:HE22	1.67	0.59
1:B:231:VAL:O	1:B:231:VAL:HG13	2.03	0.59
1:C:220:SER:HA	1:C:223:ARG:HG2	1.83	0.59
1:C:264:TRP:HA	1:C:275:ILE:O	2.03	0.59
1:D:217:PHE:O	1:D:221:VAL:HG23	2.02	0.59
1:D:109:MSE:HB3	1:D:277:PHE:CE2	2.38	0.59
1:C:97:GLN:HE21	1:C:97:GLN:CA	2.16	0.59
1:A:308:LYS:O	1:D:324:PHE:HB3	2.02	0.59
1:B:108:GLU:CD	1:B:307:LEU:HB3	2.23	0.59
1:C:327:LYS:HG3	1:C:328:VAL:N	2.18	0.59
1:A:82:GLN:HE21	1:A:87:GLY:HA2	1.68	0.59
1:A:87:GLY:N	2:A:459:HOH:O	2.35	0.59
1:A:109:MSE:HE2	1:A:265:THR:HB	1.84	0.59
1:A:253:ARG:HG2	1:A:260:VAL:HG21	1.83	0.59
1:B:227:PRO:HG2	2:B:473:HOH:O	2.01	0.59
1:B:114:PRO:HG2	1:B:115:LEU:H	1.68	0.59
1:B:259:SER:O	1:B:280:CYS:HA	2.02	0.59
1:C:54:MSE:HE1	1:C:236:GLU:HG3	1.84	0.59
1:D:113:LEU:HD23	1:D:315:HIS:ND1	2.18	0.59
1:D:149:MSE:HE1	2:D:552:HOH:O	2.03	0.59
1:D:233:THR:HG22	1:D:234:GLN:H	1.67	0.59
1:C:54:MSE:HE2	1:C:205:PRO:HD2	1.85	0.59
1:D:152:ILE:HG13	2:D:346:HOH:O	2.03	0.59
1:A:135:LEU:HB2	1:A:149:MSE:HE2	1.85	0.59
1:D:263:ALA:HA	1:D:318:ALA:O	2.03	0.59
1:C:198:VAL:HB	1:C:231:VAL:CG1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:238:LEU:HD21	1:C:262:TYR:CE2	2.38	0.59
1:A:44:ILE:N	1:A:44:ILE:HD12	2.18	0.59
1:B:322:PRO:HG2	1:B:325:ALA:CB	2.33	0.59
1:B:196:ASP:OD1	1:B:226:ARG:HD3	2.02	0.59
1:C:135:LEU:HD13	1:C:149:MSE:HE2	1.85	0.59
1:C:263:ALA:HB2	1:C:319:PHE:CE1	2.38	0.59
1:C:227:PRO:HA	1:C:282:THR:OG1	2.02	0.59
1:D:107:GLN:NE2	1:D:133:GLY:HA3	2.17	0.59
1:A:324:PHE:CD1	1:A:325:ALA:N	2.71	0.59
1:B:122:LYS:HD3	1:B:145:GLU:OE2	2.03	0.58
1:D:68:LEU:HD12	1:D:68:LEU:H	1.65	0.58
1:A:132:GLY:HA2	1:A:149:MSE:HE1	1.84	0.58
1:C:53:PRO:O	1:C:56:PRO:HD3	2.03	0.58
1:C:129:GLY:HA2	1:C:149:MSE:SE	2.53	0.58
1:A:51:MSE:HB3	2:C:363:HOH:O	2.02	0.58
1:B:109:MSE:HE2	1:B:113:LEU:HG	1.85	0.58
1:C:238:LEU:HD21	1:C:262:TYR:CE2	2.39	0.58
1:C:327:LYS:HG3	1:C:328:VAL:H	1.68	0.58
1:B:240:LEU:HD11	1:B:272:SER:HB2	1.84	0.58
1:D:164:PHE:O	1:D:167:VAL:HG22	2.04	0.58
1:D:75:TYR:HB2	1:D:153:ASP:OD2	2.02	0.58
1:B:123:LYS:HD3	1:B:194:SER:O	2.03	0.58
1:C:161:LYS:HA	1:C:168:ALA:CB	2.34	0.58
1:A:299:SER:HA	1:A:302:LYS:CG	2.31	0.58
1:D:248:ILE:HG22	1:D:278:MSE:CE	2.33	0.58
1:D:108:GLU:HB3	1:D:109:MSE:HE2	1.86	0.58
1:B:233:THR:HG22	1:B:278:MSE:HB2	1.85	0.58
1:D:105:ALA:O	1:D:109:MSE:HG2	2.04	0.58
1:D:111:THR:O	1:D:115:LEU:HB2	2.02	0.58
1:C:293:LEU:HD12	1:C:293:LEU:N	2.18	0.58
1:C:161:LYS:HA	1:C:168:ALA:HB1	1.84	0.58
1:D:93:ASP:N	2:D:353:HOH:O	2.36	0.58
1:B:54:MSE:SE	2:B:369:HOH:O	2.71	0.58
1:C:48:PHE:O	1:C:61:SER:HA	2.03	0.58
1:C:140:ARG:HB3	1:C:140:ARG:HH11	1.68	0.58
1:A:108:GLU:CD	1:A:307:LEU:HD22	2.24	0.58
1:A:55:TRP:HB3	1:A:240:LEU:HD13	1.85	0.58
1:B:51:MSE:SE	2:B:351:HOH:O	2.70	0.58
1:C:107:GLN:NE2	1:C:133:GLY:HA3	2.18	0.58
1:D:40:PHE:O	1:D:42:THR:HG22	2.04	0.58
1:D:149:MSE:HE2	1:D:151:GLU:CG	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:169:ILE:HD12	1:B:172:GLU:HG3	1.86	0.58
1:A:262:TYR:HA	1:A:277:PHE:O	2.04	0.58
1:C:248:ILE:HG21	1:C:278:MSE:HG3	1.86	0.58
1:B:109:MSE:HE3	1:B:309:PHE:HD2	1.68	0.58
1:C:68:LEU:HD12	1:C:80:VAL:HG12	1.85	0.58
1:B:123:LYS:HB3	1:B:195:TYR:HA	1.86	0.58
1:B:45:PRO:HA	1:C:41:SER:HB3	1.85	0.58
1:C:249:VAL:HA	1:C:278:MSE:HE2	1.85	0.58
1:A:86:TYR:HD2	1:A:99:THR:HG21	1.69	0.58
1:A:238:LEU:HD23	1:A:242:MSE:HE1	1.86	0.58
1:B:43:VAL:HA	1:C:43:VAL:HG13	1.86	0.58
1:A:107:GLN:HG2	1:A:133:GLY:C	2.24	0.58
1:B:236:GLU:HB3	1:B:241:HIS:ND1	2.19	0.58
1:A:98:LEU:HD13	1:A:103:GLU:OE1	2.03	0.58
1:C:311:ASN:ND2	1:C:314:ILE:N	2.50	0.58
1:B:184:VAL:HG11	1:B:211:GLU:OE1	2.03	0.58
1:A:135:LEU:HD11	1:A:176:VAL:HG22	1.85	0.58
1:B:70:GLN:HG3	1:B:79:ILE:HG12	1.86	0.58
1:C:109:MSE:CE	1:C:310:TYR:HD2	2.16	0.58
1:A:99:THR:HG22	1:A:101:ARG:N	2.15	0.58
1:C:264:TRP:HA	1:C:275:ILE:O	2.04	0.58
1:D:109:MSE:HG2	1:D:265:THR:HG21	1.84	0.58
1:D:112:HIS:O	1:D:116:CYS:HB2	2.03	0.58
1:A:248:ILE:HG22	1:A:278:MSE:HG3	1.84	0.58
1:A:307:LEU:HD13	1:A:310:TYR:HB3	1.84	0.58
1:B:39:CYS:HB2	1:B:70:GLN:HE22	1.69	0.58
1:C:322:PRO:HG2	1:C:325:ALA:HB3	1.85	0.58
1:C:50:GLU:HG2	1:C:55:TRP:HZ2	1.68	0.58
1:C:238:LEU:HD23	1:C:242:MSE:HE3	1.85	0.58
1:D:217:PHE:O	1:D:221:VAL:HG23	2.04	0.58
1:A:311:ASN:CG	1:A:314:ILE:HG22	2.23	0.58
1:D:242:MSE:HE1	1:D:329:ILE:HD11	1.85	0.58
1:D:257:LYS:NZ	2:D:510:HOH:O	2.37	0.58
1:C:50:GLU:OE1	1:C:96:ILE:HD12	2.03	0.58
1:C:244:ILE:HG22	1:C:248:ILE:HG13	1.86	0.58
1:D:52:SER:OG	1:D:54:MSE:HG2	2.04	0.58
1:B:235:ALA:HB2	1:B:278:MSE:HG2	1.85	0.58
1:A:91:VAL:CG1	1:A:95:VAL:H	2.16	0.58
1:B:130:GLY:HA3	1:B:156:VAL:HG11	1.86	0.58
1:B:130:GLY:HA2	1:B:171:TYR:OH	2.04	0.58
1:B:238:LEU:HD11	1:B:321:LEU:HD13	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:53:PRO:O	1:C:56:PRO:HD3	2.04	0.58
1:B:196:ASP:OD1	1:B:226:ARG:HD3	2.03	0.58
1:C:98:LEU:HD21	1:C:131:ASP:HB3	1.85	0.58
1:D:94:GLY:O	1:D:95:VAL:HG23	2.02	0.58
1:D:164:PHE:HB2	1:D:167:VAL:HG22	1.85	0.58
1:B:104:CYS:O	1:B:108:GLU:HB2	2.04	0.58
1:B:227:PRO:O	1:B:284:GLY:HA3	2.04	0.58
1:B:129:GLY:O	1:B:131:ASP:N	2.37	0.58
1:C:76:GLN:OE1	1:C:92:LEU:HB3	2.04	0.58
1:B:198:VAL:O	1:B:231:VAL:HA	2.03	0.58
1:D:164:PHE:HB2	1:D:167:VAL:HG22	1.85	0.58
1:A:68:LEU:HD11	1:A:88:LYS:HD2	1.86	0.58
1:C:259:SER:O	1:C:280:CYS:HA	2.04	0.58
1:D:69:PHE:CG	1:D:70:GLN:N	2.70	0.58
1:A:236:GLU:HB3	1:A:241:HIS:HD2	1.65	0.58
1:B:42:THR:HA	1:B:49:SER:CB	2.33	0.58
1:C:75:TYR:O	1:C:76:GLN:HB3	2.04	0.58
1:C:184:VAL:HG12	1:C:212:LEU:HD21	1.86	0.58
1:A:243:ASP:OD2	1:A:244:ILE:HG13	2.03	0.58
1:B:51:MSE:HE3	2:C:530:HOH:O	2.04	0.58
1:B:188:LYS:HE2	2:B:432:HOH:O	2.04	0.58
1:B:278:MSE:O	1:B:279:LEU:C	2.42	0.58
1:D:126:VAL:CG1	1:D:149:MSE:SE	3.02	0.58
1:D:161:LYS:HA	1:D:168:ALA:HB2	1.86	0.57
1:A:162:GLN:HE22	1:C:43:VAL:H	1.51	0.57
1:C:52:SER:OG	1:C:54:MSE:HB2	2.04	0.57
1:B:168:ALA:C	1:B:170:GLY:H	2.07	0.57
1:C:98:LEU:HD11	1:C:164:PHE:CE2	2.39	0.57
1:D:51:MSE:HA	1:D:55:TRP:NE1	2.18	0.57
1:C:70:GLN:NE2	2:C:365:HOH:O	2.37	0.57
1:A:92:LEU:O	1:A:94:GLY:N	2.37	0.57
1:A:151:GLU:HG3	1:A:152:ILE:N	2.10	0.57
1:A:236:GLU:HB3	1:A:241:HIS:HD2	1.68	0.57
1:D:163:PHE:C	1:D:165:PRO:HD3	2.24	0.57
1:D:110:ILE:HG13	1:D:232:CYS:SG	2.44	0.57
1:A:59:ALA:HB3	1:D:61:SER:HB2	1.86	0.57
1:A:80:VAL:HG21	1:A:159:VAL:HG12	1.85	0.57
1:A:220:SER:O	1:A:223:ARG:HG2	2.04	0.57
1:A:329:ILE:HG22	1:A:329:ILE:O	2.03	0.57
1:C:123:LYS:HG3	1:C:146:GLN:CB	2.34	0.57
1:D:173:ASP:HB3	1:D:176:VAL:HG23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:244:ILE:O	1:A:248:ILE:HG13	2.04	0.57
1:B:231:VAL:CG1	1:B:280:CYS:HB2	2.34	0.57
1:A:70:GLN:HE22	1:C:70:GLN:HE22	1.51	0.57
1:B:98:LEU:HD12	1:B:98:LEU:O	2.04	0.57
1:A:51:MSE:HB2	1:C:72:LYS:HB3	1.86	0.57
1:C:135:LEU:HD23	1:C:170:GLY:O	2.04	0.57
1:D:43:VAL:C	1:D:44:ILE:HG13	2.25	0.57
1:A:63:LYS:HB3	1:A:84:ALA:CB	2.35	0.57
1:A:63:LYS:HB3	1:A:84:ALA:HB2	1.87	0.57
1:A:86:TYR:HD2	1:A:99:THR:HG21	1.69	0.57
1:C:297:ASP:HA	2:C:488:HOH:O	2.04	0.57
1:D:110:ILE:HG23	1:D:111:THR:HG23	1.86	0.57
1:A:108:GLU:HG2	1:A:307:LEU:HD22	1.85	0.57
1:C:127:ILE:HD12	1:C:127:ILE:N	2.19	0.57
1:C:261:ASN:HD22	1:C:289:PHE:HD2	1.52	0.57
1:B:130:GLY:O	1:B:131:ASP:HB2	2.04	0.57
1:C:70:GLN:NE2	2:C:363:HOH:O	2.34	0.57
1:D:128:GLY:HA2	2:D:551:HOH:O	2.04	0.57
1:B:242:MSE:HE3	1:B:245:ILE:HB	1.86	0.57
1:D:205:PRO:CB	1:D:210:LYS:HA	2.33	0.57
1:C:99:THR:HG22	1:C:101:ARG:N	2.20	0.57
1:C:126:VAL:O	1:C:149:MSE:HA	2.04	0.57
1:B:130:GLY:O	1:B:131:ASP:CB	2.52	0.57
1:D:114:PRO:HG2	1:D:115:LEU:CD1	2.35	0.57
1:C:292:PRO:O	1:C:295:PRO:HD3	2.03	0.57
1:D:252:CYS:SG	1:D:278:MSE:HE2	2.45	0.57
1:B:54:MSE:HE2	1:B:204:ASP:HB3	1.87	0.57
1:C:219:GLN:HB2	1:C:255:ILE:HD12	1.87	0.57
1:D:111:THR:HG22	1:D:134:VAL:HG13	1.86	0.57
1:A:241:HIS:HB3	1:A:244:ILE:HD12	1.85	0.57
1:A:127:ILE:HB	1:A:200:VAL:CG2	2.29	0.57
1:B:121:PRO:C	1:B:122:LYS:HD2	2.25	0.57
1:A:130:GLY:HA2	1:A:151:GLU:OE2	2.05	0.57
1:B:153:ASP:OD2	1:B:156:VAL:HG23	2.04	0.57
1:D:109:MSE:C	1:D:111:THR:N	2.57	0.57
1:D:227:PRO:HB3	1:D:284:GLY:HA3	1.85	0.57
1:A:43:VAL:HG13	1:D:43:VAL:HA	1.86	0.57
1:B:326:LYS:HE2	1:B:330:GLU:OE1	2.04	0.57
1:D:98:LEU:HD12	1:D:98:LEU:C	2.24	0.57
1:A:149:MSE:HG3	1:A:178:LEU:HD13	1.87	0.57
1:B:98:LEU:C	1:B:98:LEU:HD12	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:TRP:CH2	1:A:95:VAL:HG22	2.39	0.57
1:B:243:ASP:O	1:B:244:ILE:HG13	2.05	0.57
1:C:112:HIS:O	1:C:116:CYS:HB2	2.04	0.57
1:B:44:ILE:CD1	1:C:51:MSE:HE3	2.35	0.57
1:B:326:LYS:HE2	2:B:367:HOH:O	2.04	0.57
1:D:111:THR:HG21	1:D:134:VAL:HG13	1.87	0.57
1:A:271:PRO:O	1:A:272:SER:HB3	2.04	0.57
1:B:163:PHE:C	1:B:165:PRO:HD3	2.24	0.57
1:B:116:CYS:HB3	1:B:294:ASN:O	2.05	0.57
1:D:98:LEU:HD12	1:D:98:LEU:C	2.25	0.57
1:D:290:LYS:HD2	1:D:291:HIS:CE1	2.40	0.57
1:B:98:LEU:C	1:B:98:LEU:HD12	2.25	0.57
1:D:198:VAL:HG23	1:D:225:LEU:HD21	1.85	0.57
1:D:51:MSE:O	1:D:52:SER:HB2	2.05	0.57
1:B:184:VAL:HG11	1:B:211:GLU:CD	2.25	0.57
1:B:103:GLU:HB3	1:B:107:GLN:NE2	2.18	0.57
1:C:88:LYS:H	1:C:100:GLU:HG3	1.69	0.57
1:D:134:VAL:O	1:D:138:VAL:HG23	2.04	0.57
1:A:82:GLN:OE1	1:A:88:LYS:HG3	2.04	0.57
1:A:240:LEU:HD11	1:A:271:PRO:HB2	1.86	0.57
1:B:127:ILE:HD11	1:B:187:LEU:CD2	2.35	0.57
1:B:326:LYS:HE2	2:C:351:HOH:O	2.05	0.57
1:A:238:LEU:CA	1:A:242:MSE:HE3	2.32	0.57
1:C:99:THR:O	1:C:103:GLU:HB3	2.04	0.57
1:B:123:LYS:NZ	1:B:146:GLN:HE22	2.03	0.57
1:D:293:LEU:N	1:D:293:LEU:HD23	2.20	0.57
1:A:194:SER:O	1:A:195:TYR:CG	2.58	0.57
1:A:325:ALA:O	1:A:329:ILE:HB	2.05	0.57
1:B:109:MSE:O	1:B:113:LEU:HB2	2.05	0.57
1:A:329:ILE:HG22	1:A:329:ILE:O	2.05	0.57
1:B:97:GLN:O	1:B:98:LEU:HB3	2.05	0.57
1:A:129:GLY:C	1:A:131:ASP:H	2.07	0.57
1:B:187:LEU:HB3	1:B:220:SER:OG	2.05	0.57
1:D:164:PHE:HB2	1:D:167:VAL:HG22	1.85	0.57
1:B:269:THR:HB	2:B:462:HOH:O	2.04	0.57
1:A:86:TYR:HD2	1:A:99:THR:HG21	1.70	0.57
1:A:260:VAL:HB	1:A:278:MSE:CE	2.35	0.57
1:D:279:LEU:HD12	1:D:289:PHE:CD1	2.40	0.57
1:B:172:GLU:O	1:B:173:ASP:C	2.43	0.57
1:A:215:LYS:HG3	1:A:251:ASN:ND2	2.20	0.57
1:C:135:LEU:HB2	1:C:149:MSE:HE3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:114:PRO:HG2	1:D:115:LEU:H	1.70	0.57
1:C:108:GLU:OE1	1:C:310:TYR:HB3	2.05	0.57
1:A:104:CYS:CB	1:A:308:LYS:HE2	2.33	0.57
1:A:179:VAL:HG11	1:A:186:PHE:CD2	2.40	0.57
1:C:182:ASP:OD2	1:C:185:ALA:HB2	2.04	0.57
1:D:146:GLN:HG2	1:D:148:ASP:OD1	2.05	0.57
1:A:59:ALA:HB3	1:D:61:SER:HB2	1.86	0.57
1:A:151:GLU:O	1:A:180:ILE:HA	2.05	0.57
1:A:183:GLY:O	1:A:186:PHE:HB3	2.05	0.57
1:D:146:GLN:HE21	1:D:177:ASN:CB	2.16	0.57
1:A:90:LEU:HB3	1:A:98:LEU:HG	1.86	0.56
1:A:128:GLY:HA2	1:A:151:GLU:OE1	2.04	0.56
1:A:105:ALA:O	1:A:109:MSE:CG	2.48	0.56
1:B:192:GLU:HA	1:B:223:ARG:NH1	2.20	0.56
1:B:113:LEU:HA	1:B:315:HIS:CE1	2.40	0.56
1:D:136:ARG:HH21	1:D:167:VAL:HG12	1.70	0.56
1:D:223:ARG:NH1	2:D:402:HOH:O	2.38	0.56
1:C:264:TRP:CZ2	1:C:322:PRO:HD3	2.40	0.56
1:D:91:VAL:HA	1:D:95:VAL:O	2.05	0.56
1:D:184:VAL:HG22	1:D:217:PHE:CD1	2.40	0.56
1:C:166:ASP:HB3	2:C:452:HOH:O	2.05	0.56
1:D:259:SER:O	1:D:280:CYS:HA	2.05	0.56
1:A:297:ASP:O	1:A:298:GLU:HB2	2.04	0.56
1:C:242:MSE:HA	1:C:242:MSE:HE2	1.87	0.56
1:A:212:LEU:HA	1:A:217:PHE:CD2	2.40	0.56
1:C:69:PHE:CE1	1:C:159:VAL:HG21	2.40	0.56
1:B:66:LYS:HD3	1:B:66:LYS:C	2.26	0.56
1:D:261:ASN:HD22	1:D:289:PHE:HD2	1.52	0.56
1:A:206:ILE:HG23	1:A:207:GLY:N	2.21	0.56
1:B:130:GLY:O	1:B:131:ASP:HB2	2.04	0.56
1:D:206:ILE:O	1:D:206:ILE:HG13	2.04	0.56
1:A:103:GLU:HA	2:A:368:HOH:O	2.05	0.56
1:A:236:GLU:HB3	1:A:241:HIS:CD2	2.39	0.56
1:B:161:LYS:HA	1:B:168:ALA:HB1	1.87	0.56
1:B:188:LYS:HE2	2:B:432:HOH:O	2.05	0.56
1:D:109:MSE:HG2	1:D:277:PHE:CE2	2.40	0.56
1:D:260:VAL:HA	1:D:280:CYS:SG	2.45	0.56
1:A:253:ARG:HH22	1:A:330:GLU:CB	2.18	0.56
1:B:123:LYS:HZ1	1:B:146:GLN:NE2	2.04	0.56
1:C:98:LEU:HG	1:C:99:THR:N	2.20	0.56
1:D:262:TYR:OH	1:D:276:GLY:HA3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:GLY:C	1:A:131:ASP:H	2.08	0.56
1:B:151:GLU:HG3	1:B:153:ASP:H	1.71	0.56
1:D:163:PHE:C	1:D:165:PRO:HD3	2.25	0.56
1:A:144:ILE:HB	1:A:175:ARG:NH1	2.19	0.56
1:B:236:GLU:HB3	1:B:241:HIS:ND1	2.20	0.56
1:C:119:PRO:HD2	1:C:226:ARG:HH22	1.70	0.56
1:A:179:VAL:HG21	1:A:186:PHE:HE2	1.70	0.56
1:A:215:LYS:HD3	1:A:254:GLU:OE1	2.05	0.56
1:B:103:GLU:O	1:B:107:GLN:HG3	2.05	0.56
1:B:292:PRO:HD3	1:B:315:HIS:CD2	2.39	0.56
1:D:120:ASN:ND2	1:D:122:LYS:HE3	2.20	0.56
1:A:206:ILE:HG23	1:A:207:GLY:N	2.12	0.56
1:B:130:GLY:HA3	1:B:156:VAL:CG1	2.35	0.56
1:C:86:TYR:HD2	1:C:99:THR:HG21	1.70	0.56
1:A:109:MSE:CE	1:A:310:TYR:HB2	2.35	0.56
1:A:254:GLU:O	1:A:255:ILE:HD13	2.05	0.56
1:D:69:PHE:HB2	1:D:163:PHE:CZ	2.40	0.56
1:B:218:PHE:O	1:B:255:ILE:HG21	2.06	0.56
1:C:86:TYR:CD2	1:C:99:THR:HG21	2.40	0.56
1:C:253:ARG:HH12	1:C:330:GLU:HB2	1.71	0.56
1:D:243:ASP:OD1	1:D:244:ILE:N	2.39	0.56
1:D:98:LEU:HD12	1:D:98:LEU:C	2.25	0.56
1:A:107:GLN:HG2	1:A:133:GLY:C	2.25	0.56
1:A:145:GLU:O	1:A:175:ARG:HG2	2.06	0.56
1:B:98:LEU:C	1:B:98:LEU:HD12	2.26	0.56
1:C:99:THR:HB	1:C:102:ASP:OD1	2.05	0.56
1:C:324:PHE:O	1:C:328:VAL:HG23	2.06	0.56
1:C:100:GLU:HA	1:C:103:GLU:OE2	2.05	0.56
1:B:54:MSE:HE1	1:B:206:ILE:HB	1.87	0.56
1:B:129:GLY:O	1:B:130:GLY:C	2.43	0.56
1:A:296:ILE:HD13	1:A:297:ASP:N	2.19	0.56
1:C:327:LYS:HG3	1:C:328:VAL:H	1.71	0.56
1:A:90:LEU:HB3	1:A:98:LEU:HG	1.88	0.56
1:A:241:HIS:O	1:A:245:ILE:HG13	2.05	0.56
1:A:259:SER:O	1:A:280:CYS:HA	2.06	0.56
1:C:125:LEU:HB2	1:C:195:TYR:CZ	2.40	0.56
1:D:161:LYS:HA	1:D:168:ALA:HB2	1.88	0.56
1:A:50:GLU:O	1:A:50:GLU:HG2	2.06	0.56
1:C:237:SER:H	1:C:241:HIS:HD2	1.54	0.56
1:A:258:GLY:HA3	1:A:281:SER:OG	2.04	0.56
1:C:155:MSE:O	1:C:159:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:134:VAL:O	1:D:138:VAL:HG23	2.05	0.56
1:A:47:TRP:CE2	1:A:63:LYS:HD3	2.40	0.56
1:B:242:MSE:HG3	1:B:246:GLU:OE1	2.06	0.56
1:B:234:GLN:HE22	1:B:236:GLU:HA	1.69	0.56
1:D:96:ILE:HG21	1:D:269:THR:CG2	2.36	0.56
1:A:43:VAL:HG12	1:A:44:ILE:N	2.21	0.56
1:A:123:LYS:HD3	1:A:194:SER:O	2.05	0.56
1:A:211:GLU:HA	1:A:214:GLU:HG2	1.86	0.56
1:A:229:GLY:O	1:A:281:SER:HA	2.06	0.56
1:A:254:GLU:O	1:A:255:ILE:HD13	2.05	0.56
1:A:99:THR:HG22	1:A:101:ARG:N	2.20	0.56
1:A:212:LEU:HA	1:A:217:PHE:CD2	2.40	0.56
1:A:237:SER:H	1:A:241:HIS:CD2	2.23	0.56
1:A:265:THR:HG22	1:A:275:ILE:HG22	1.88	0.56
1:C:141:HIS:O	1:C:144:ILE:HG12	2.05	0.56
1:C:86:TYR:CD2	1:C:101:ARG:HD3	2.41	0.56
1:A:145:GLU:O	1:A:175:ARG:HG2	2.06	0.56
1:A:253:ARG:NH2	1:A:330:GLU:HB3	2.08	0.56
1:B:99:THR:HG23	1:B:269:THR:HG21	1.88	0.56
1:B:124:VAL:HG13	1:B:197:ALA:O	2.06	0.56
1:A:292:PRO:HB3	1:A:315:HIS:CE1	2.41	0.56
1:D:98:LEU:HD12	1:D:98:LEU:C	2.26	0.56
1:D:323:SER:O	1:D:325:ALA:N	2.39	0.56
1:B:149:MSE:CE	1:B:171:TYR:HE1	2.19	0.56
1:D:151:GLU:OE2	1:D:157:VAL:HG22	2.06	0.56
1:A:72:LYS:HZ2	1:C:52:SER:HA	1.71	0.56
1:A:229:GLY:O	1:A:281:SER:HA	2.06	0.56
1:B:237:SER:HA	2:B:355:HOH:O	2.06	0.56
1:A:182:ASP:OD2	1:A:184:VAL:HG22	2.06	0.56
1:B:240:LEU:HG	1:B:272:SER:HB2	1.88	0.56
1:C:86:TYR:HD2	1:C:99:THR:HG21	1.70	0.56
1:B:263:ALA:HA	1:B:318:ALA:O	2.06	0.56
1:A:79:ILE:HB	1:A:91:VAL:HB	1.87	0.56
1:D:225:LEU:HD22	1:D:229:GLY:HA3	1.86	0.56
1:B:288:ASP:HB3	2:B:395:HOH:O	2.05	0.56
1:C:307:LEU:HD23	1:C:310:TYR:HB3	1.88	0.56
1:C:155:MSE:O	1:C:159:VAL:HG23	2.06	0.56
1:D:98:LEU:HD12	1:D:98:LEU:C	2.25	0.56
1:C:187:LEU:HD21	1:C:221:VAL:HG22	1.88	0.56
1:C:329:ILE:O	1:C:330:GLU:HB2	2.06	0.56
1:D:131:ASP:O	1:D:167:VAL:HB	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:LEU:HD11	1:C:88:LYS:HG2	1.88	0.56
1:C:100:GLU:HA	1:C:103:GLU:OE2	2.06	0.56
1:C:129:GLY:N	1:C:151:GLU:HB2	2.21	0.56
1:D:73:SER:HB3	1:D:76:GLN:O	2.06	0.56
1:A:229:GLY:O	1:A:281:SER:HA	2.06	0.56
1:C:187:LEU:HD21	1:C:221:VAL:HG22	1.87	0.56
1:D:184:VAL:HG13	2:D:408:HOH:O	2.06	0.56
1:A:126:VAL:HB	1:A:149:MSE:HG3	1.88	0.56
1:C:96:ILE:HG21	1:C:269:THR:CG2	2.36	0.56
1:D:118:ILE:HD11	1:D:121:PRO:HB3	1.88	0.56
1:A:232:CYS:SG	1:A:277:PHE:CD1	2.99	0.56
1:B:210:LYS:NZ	2:B:475:HOH:O	2.39	0.56
1:D:184:VAL:HA	2:D:410:HOH:O	2.05	0.56
1:C:182:ASP:OD2	1:C:185:ALA:HB2	2.06	0.56
1:D:196:ASP:OD1	1:D:226:ARG:NH2	2.39	0.56
1:D:205:PRO:HG3	1:D:244:ILE:HG21	1.87	0.56
1:B:80:VAL:HG21	1:B:159:VAL:CG1	2.36	0.55
1:C:131:ASP:HB2	1:C:167:VAL:HG11	1.88	0.55
1:B:153:ASP:OD1	1:B:155:MSE:HB3	2.06	0.55
1:B:205:PRO:HA	1:B:210:LYS:HA	1.89	0.55
1:C:311:ASN:ND2	1:C:314:ILE:HB	2.21	0.55
1:D:107:GLN:NE2	1:D:133:GLY:HA3	2.21	0.55
1:B:153:ASP:OD2	1:B:155:MSE:HB3	2.06	0.55
1:B:51:MSE:HG3	1:B:59:ALA:CB	2.36	0.55
1:D:252:CYS:HB2	1:D:278:MSE:HE3	1.86	0.55
1:B:45:PRO:HA	1:C:41:SER:OG	2.06	0.55
1:A:242:MSE:HA	1:A:242:MSE:CE	2.32	0.55
1:A:257:LYS:HB2	1:A:283:GLU:HB2	1.88	0.55
1:C:217:PHE:O	1:C:221:VAL:HG23	2.06	0.55
1:B:311:ASN:OD1	1:B:312:ALA:N	2.39	0.55
1:C:68:LEU:HG	1:C:81:PHE:HA	1.87	0.55
1:A:169:ILE:HD12	1:A:172:GLU:OE2	2.06	0.55
1:B:44:ILE:HD13	1:C:51:MSE:CE	2.37	0.55
1:A:72:LYS:HB3	1:C:51:MSE:CB	2.32	0.55
1:D:262:TYR:HA	1:D:277:PHE:O	2.06	0.55
1:C:200:VAL:O	1:C:233:THR:HA	2.06	0.55
1:D:151:GLU:HG2	1:D:157:VAL:CG2	2.36	0.55
1:D:247:ASP:O	1:D:251:ASN:HB2	2.06	0.55
1:D:328:VAL:O	1:D:330:GLU:N	2.38	0.55
1:A:233:THR:O	1:A:277:PHE:HA	2.06	0.55
1:A:296:ILE:HG22	1:A:297:ASP:N	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:69:PHE:CZ	1:D:71:GLY:HA3	2.42	0.55
1:B:40:PHE:HD1	1:C:42:THR:HG21	1.72	0.55
1:A:46:GLY:HA3	1:A:63:LYS:NZ	2.21	0.55
1:B:317:ALA:O	1:B:320:CYS:HB3	2.05	0.55
1:C:124:VAL:HG22	1:C:197:ALA:HB3	1.88	0.55
1:C:73:SER:HB2	2:C:340:HOH:O	2.06	0.55
1:C:193:GLY:H	1:C:224:ALA:CA	2.19	0.55
1:C:236:GLU:HB3	1:C:241:HIS:CD2	2.41	0.55
1:D:98:LEU:HD12	1:D:98:LEU:C	2.26	0.55
1:B:105:ALA:O	1:B:109:MSE:HB2	2.05	0.55
1:D:64:VAL:HG22	1:D:81:PHE:CE1	2.41	0.55
1:C:129:GLY:HA2	1:C:149:MSE:SE	2.56	0.55
1:A:51:MSE:HE3	1:C:71:GLY:CA	2.36	0.55
1:C:296:ILE:HD12	1:C:307:LEU:HD11	1.87	0.55
1:A:83:SER:O	1:A:85:THR:N	2.39	0.55
1:A:51:MSE:HE1	2:C:408:HOH:O	2.06	0.55
1:B:69:PHE:O	1:B:79:ILE:HA	2.07	0.55
1:D:40:PHE:O	1:D:42:THR:N	2.39	0.55
1:B:154:LYS:HE3	1:B:158:ASP:OD2	2.06	0.55
1:D:123:LYS:HE3	1:D:146:GLN:NE2	2.22	0.55
1:A:238:LEU:HD23	1:A:245:ILE:HD13	1.87	0.55
1:B:292:PRO:HD3	1:B:315:HIS:NE2	2.21	0.55
1:B:188:LYS:HE2	2:B:432:HOH:O	2.07	0.55
1:C:86:TYR:CD2	1:C:99:THR:HG21	2.40	0.55
1:C:299:SER:HB2	2:C:422:HOH:O	2.06	0.55
1:A:210:LYS:O	1:A:214:GLU:HG2	2.07	0.55
1:A:193:GLY:HA2	1:A:225:LEU:O	2.07	0.55
1:B:145:GLU:O	1:B:175:ARG:HG2	2.06	0.55
1:C:238:LEU:HD23	1:C:245:ILE:HD13	1.87	0.55
1:C:238:LEU:HD21	1:C:262:TYR:CE2	2.41	0.55
1:D:109:MSE:CE	1:D:309:PHE:HD2	2.19	0.55
1:D:260:VAL:HG13	1:D:280:CYS:SG	2.46	0.55
1:A:121:PRO:O	1:A:144:ILE:HD13	2.06	0.55
1:A:321:LEU:HD13	1:A:329:ILE:HD12	1.88	0.55
1:B:231:VAL:HG22	1:B:232:CYS:N	2.21	0.55
2:B:486:HOH:O	1:C:313:GLU:HB3	2.06	0.55
1:A:53:PRO:O	1:A:56:PRO:HD3	2.06	0.55
1:B:292:PRO:HB3	1:B:315:HIS:CE1	2.41	0.55
1:C:205:PRO:HG3	1:C:244:ILE:HD13	1.88	0.55
1:C:86:TYR:HB3	1:C:99:THR:HG23	1.89	0.55
1:A:104:CYS:O	1:A:108:GLU:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:101:ARG:NH2	1:C:240:LEU:HD23	2.22	0.55
1:C:329:ILE:O	1:C:330:GLU:HB2	2.06	0.55
1:D:153:ASP:OD2	1:D:155:MSE:HB3	2.06	0.55
1:A:61:SER:O	1:D:58:GLU:HA	2.06	0.55
1:B:215:LYS:HG2	1:B:251:ASN:HB3	1.88	0.55
1:A:170:GLY:C	1:A:172:GLU:H	2.10	0.55
1:A:283:GLU:O	1:A:283:GLU:HG2	2.07	0.55
1:C:257:LYS:HE2	2:C:368:HOH:O	2.06	0.55
1:D:111:THR:HG22	1:D:134:VAL:HG13	1.89	0.55
1:D:330:GLU:N	1:D:330:GLU:OE1	2.39	0.55
1:A:98:LEU:HB2	1:A:103:GLU:HB2	1.88	0.55
1:C:311:ASN:HD21	1:C:314:ILE:HD13	1.72	0.55
1:D:115:LEU:HD23	1:D:141:HIS:CD2	2.41	0.55
1:B:92:LEU:HD12	1:B:97:GLN:HG2	1.88	0.55
1:B:323:SER:C	1:B:325:ALA:H	2.10	0.55
1:A:90:LEU:HD23	1:A:91:VAL:N	2.21	0.55
1:C:313:GLU:HB2	2:C:407:HOH:O	2.05	0.55
1:A:110:ILE:HB	1:A:277:PHE:CZ	2.41	0.55
1:A:172:GLU:HG2	2:A:349:HOH:O	2.07	0.55
1:B:293:LEU:HD23	1:B:294:ASN:N	2.21	0.55
1:D:238:LEU:HD22	1:D:325:ALA:CB	2.36	0.55
1:A:136:ARG:HH21	1:A:167:VAL:HG13	1.70	0.55
1:C:154:LYS:O	1:C:158:ASP:HB2	2.07	0.55
1:D:203:SER:O	1:D:204:ASP:C	2.45	0.55
1:D:96:ILE:HG21	1:D:269:THR:CG2	2.37	0.55
1:A:164:PHE:HB3	1:A:167:VAL:HB	1.88	0.55
1:A:219:GLN:OE1	1:A:255:ILE:HD12	2.06	0.55
1:C:124:VAL:HG23	1:C:197:ALA:HB3	1.88	0.55
1:D:131:ASP:O	1:D:167:VAL:HG23	2.07	0.55
1:B:152:ILE:HG12	1:B:152:ILE:O	2.05	0.55
1:C:136:ARG:NH2	1:C:167:VAL:HG13	2.21	0.55
1:D:312:ALA:O	1:D:315:HIS:HB3	2.06	0.55
1:D:87:GLY:O	1:D:89:VAL:HG23	2.07	0.55
1:D:288:ASP:OD2	1:D:291:HIS:HB2	2.07	0.55
1:A:171:TYR:CD1	1:A:178:LEU:HD22	2.42	0.55
1:A:242:MSE:C	1:A:244:ILE:H	2.10	0.55
1:A:76:GLN:CD	1:A:92:LEU:HD22	2.27	0.55
1:B:69:PHE:HB3	1:B:80:VAL:HB	1.89	0.55
1:C:135:LEU:HB3	1:C:170:GLY:HA3	1.88	0.55
1:D:241:HIS:CG	1:D:244:ILE:HD12	2.42	0.55
1:D:96:ILE:HG21	1:D:269:THR:CG2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:182:ASP:OD2	1:C:185:ALA:HB2	2.06	0.55
1:D:125:LEU:HD21	1:D:127:ILE:HD11	1.89	0.55
1:A:132:GLY:HA2	1:A:149:MSE:CE	2.36	0.55
1:D:96:ILE:HG21	1:D:269:THR:CG2	2.37	0.55
1:B:106:TYR:CZ	1:B:110:ILE:HD12	2.42	0.55
1:D:101:ARG:HG2	1:D:101:ARG:O	2.07	0.55
1:B:329:ILE:O	1:B:329:ILE:CG2	2.55	0.55
1:C:73:SER:HB2	2:C:340:HOH:O	2.07	0.55
1:C:149:MSE:HG2	1:C:178:LEU:HD13	1.89	0.55
1:C:90:LEU:HB3	1:C:98:LEU:HG	1.88	0.55
1:D:164:PHE:HB2	1:D:167:VAL:HG22	1.88	0.55
1:A:45:PRO:HA	1:C:68:LEU:O	2.07	0.55
1:A:311:ASN:HD21	1:A:314:ILE:HD13	1.70	0.55
1:B:68:LEU:HB3	1:B:163:PHE:CE1	2.42	0.55
1:B:98:LEU:HD12	1:B:98:LEU:O	2.07	0.55
1:D:88:LYS:HG3	1:D:100:GLU:OE1	2.07	0.55
1:D:151:GLU:OE2	1:D:156:VAL:HB	2.07	0.55
1:B:96:ILE:HG21	1:B:269:THR:CG2	2.37	0.55
1:C:187:LEU:HA	1:C:190:ALA:HB2	1.88	0.55
1:B:78:VAL:HG11	1:B:159:VAL:HG21	1.89	0.55
1:D:129:GLY:HA3	1:D:156:VAL:HG11	1.88	0.55
1:A:122:LYS:N	1:A:196:ASP:OD2	2.40	0.55
1:A:123:LYS:HD3	1:A:194:SER:O	2.07	0.55
1:B:42:THR:HA	1:B:49:SER:CB	2.36	0.55
1:A:53:PRO:O	1:A:56:PRO:HD3	2.07	0.55
1:B:234:GLN:NE2	1:B:236:GLU:H	2.05	0.55
1:D:136:ARG:HG2	1:D:136:ARG:HH11	1.72	0.55
1:C:311:ASN:O	1:C:314:ILE:HG22	2.07	0.55
1:C:87:GLY:O	1:C:89:VAL:HG23	2.06	0.54
1:D:96:ILE:HG21	1:D:269:THR:CG2	2.37	0.54
1:D:120:ASN:HD21	1:D:122:LYS:HE3	1.72	0.54
1:A:236:GLU:HB3	1:A:241:HIS:CD2	2.41	0.54
1:A:215:LYS:HG2	1:A:255:ILE:HG12	1.89	0.54
1:C:159:VAL:HG22	1:D:45:PRO:HG2	1.88	0.54
1:C:204:ASP:OD1	1:C:205:PRO:HD2	2.06	0.54
1:C:54:MSE:HE2	1:C:204:ASP:OD2	2.07	0.54
1:A:122:LYS:HE2	1:A:145:GLU:OE1	2.08	0.54
1:A:234:GLN:HE22	1:A:275:ILE:CD1	2.18	0.54
1:A:296:ILE:H	1:A:296:ILE:HD12	1.71	0.54
1:B:150:CYS:HA	1:B:179:VAL:O	2.07	0.54
1:B:239:TRP:O	1:C:101:ARG:NH2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:ASP:OD1	1:A:177:ASN:HB3	2.07	0.54
1:D:107:GLN:NE2	1:D:133:GLY:HA3	2.22	0.54
1:C:86:TYR:HB3	1:C:99:THR:CG2	2.37	0.54
1:A:109:MSE:CE	1:A:310:TYR:HB2	2.37	0.54
1:B:326:LYS:HG2	1:B:330:GLU:CD	2.27	0.54
1:B:129:GLY:HA3	1:B:149:MSE:SE	2.58	0.54
1:B:292:PRO:HD3	1:B:315:HIS:CD2	2.43	0.54
1:D:197:ALA:HA	1:D:230:VAL:O	2.06	0.54
1:C:66:LYS:HD3	1:C:68:LEU:HD23	1.89	0.54
1:C:237:SER:H	1:C:241:HIS:HD2	1.54	0.54
1:B:292:PRO:HD3	1:B:315:HIS:CD2	2.42	0.54
1:D:118:ILE:CD1	1:D:121:PRO:HB3	2.37	0.54
1:B:327:LYS:HD3	1:B:327:LYS:O	2.06	0.54
1:C:123:LYS:HD3	1:C:194:SER:O	2.08	0.54
1:A:98:LEU:HD11	1:A:164:PHE:CE1	2.41	0.54
1:A:134:VAL:O	1:A:138:VAL:HG23	2.06	0.54
1:A:123:LYS:HG3	1:A:195:TYR:CD1	2.42	0.54
1:A:72:LYS:O	1:C:51:MSE:HG2	2.06	0.54
1:A:182:ASP:OD2	1:A:184:VAL:HG22	2.07	0.54
1:C:257:LYS:HE2	2:C:370:HOH:O	2.07	0.54
1:A:55:TRP:HB3	1:A:240:LEU:HD13	1.89	0.54
1:B:130:GLY:O	1:B:131:ASP:CB	2.56	0.54
1:B:148:ASP:OD1	1:B:177:ASN:HB3	2.07	0.54
1:D:257:LYS:CB	1:D:283:GLU:HB2	2.33	0.54
1:D:125:LEU:HD12	1:D:126:VAL:H	1.70	0.54
1:D:227:PRO:C	1:D:285:PRO:HD2	2.27	0.54
1:B:90:LEU:HB3	1:B:98:LEU:HG	1.89	0.54
1:A:109:MSE:CE	1:A:265:THR:HB	2.38	0.54
1:B:164:PHE:N	1:B:165:PRO:HD3	2.22	0.54
1:B:200:VAL:HG12	1:B:202:SER:H	1.71	0.54
1:B:232:CYS:HA	1:B:278:MSE:O	2.07	0.54
1:C:72:LYS:O	1:C:155:MSE:HE1	2.07	0.54
1:C:329:ILE:O	1:C:329:ILE:HG22	2.07	0.54
1:D:321:LEU:O	1:D:326:LYS:HE3	2.07	0.54
1:A:41:SER:HA	1:D:40:PHE:HD1	1.72	0.54
1:A:152:ILE:HD12	1:A:182:ASP:HA	1.89	0.54
1:C:165:PRO:C	1:C:167:VAL:H	2.11	0.54
1:D:112:HIS:NE2	1:D:137:GLU:HB3	2.23	0.54
1:B:192:GLU:HB2	1:B:223:ARG:NH1	2.22	0.54
1:D:131:ASP:O	1:D:167:VAL:HB	2.08	0.54
1:A:272:SER:HA	1:D:268:PRO:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:67:VAL:HA	1:B:81:PHE:CB	2.38	0.54
1:D:154:LYS:HA	1:D:157:VAL:HG23	1.90	0.54
1:C:77:ASP:HB3	1:C:93:ASP:HA	1.90	0.54
1:A:236:GLU:HB3	1:A:241:HIS:HD2	1.73	0.54
1:D:65:GLU:HA	1:D:65:GLU:OE1	2.07	0.54
1:A:92:LEU:O	1:A:94:GLY:N	2.40	0.54
1:A:184:VAL:O	1:A:188:LYS:HG3	2.08	0.54
1:D:69:PHE:HB2	1:D:163:PHE:CE2	2.43	0.54
1:A:169:ILE:HD12	1:A:172:GLU:OE2	2.08	0.54
1:A:329:ILE:HG22	1:A:329:ILE:O	2.07	0.54
1:B:128:GLY:O	1:B:130:GLY:N	2.40	0.54
1:B:307:LEU:HD13	1:B:310:TYR:HD1	1.72	0.54
1:C:329:ILE:O	1:C:330:GLU:HB2	2.07	0.54
1:A:152:ILE:HD12	1:A:182:ASP:HA	1.89	0.54
1:A:104:CYS:HB3	1:A:308:LYS:CE	2.37	0.54
1:A:115:LEU:HB3	1:A:141:HIS:CE1	2.43	0.54
1:C:278:MSE:HE1	1:C:280:CYS:CB	2.36	0.54
1:A:260:VAL:HB	1:A:278:MSE:SE	2.57	0.54
1:B:173:ASP:HB3	1:B:176:VAL:HG23	1.90	0.54
1:C:99:THR:O	1:C:103:GLU:HB3	2.07	0.54
1:D:196:ASP:OD1	1:D:226:ARG:CD	2.55	0.54
1:A:79:ILE:HB	1:A:91:VAL:HB	1.89	0.54
1:C:297:ASP:O	1:C:298:GLU:HB2	2.07	0.54
1:A:121:PRO:O	1:A:144:ILE:HD13	2.07	0.54
1:A:219:GLN:OE1	1:A:255:ILE:HD12	2.07	0.54
1:C:259:SER:N	1:C:281:SER:OG	2.41	0.54
1:D:328:VAL:O	1:D:330:GLU:HG3	2.08	0.54
1:A:145:GLU:O	1:A:175:ARG:HG2	2.07	0.54
1:B:262:TYR:OH	1:B:276:GLY:HA3	2.06	0.54
1:D:250:SER:O	1:D:254:GLU:HG3	2.08	0.54
1:A:108:GLU:OE1	1:A:309:PHE:HB3	2.08	0.54
1:D:64:VAL:HG22	1:D:81:PHE:CD1	2.42	0.54
1:B:86:TYR:CD2	1:B:101:ARG:HB3	2.42	0.54
1:C:54:MSE:HE2	1:C:204:ASP:HB3	1.90	0.54
1:C:134:VAL:O	1:C:138:VAL:HG23	2.07	0.54
1:D:96:ILE:HG21	1:D:269:THR:HG22	1.90	0.54
1:D:263:ALA:HB2	1:D:319:PHE:CE1	2.42	0.54
1:C:329:ILE:O	1:C:329:ILE:HG22	2.07	0.54
1:D:200:VAL:HG12	1:D:202:SER:HB3	1.89	0.54
1:B:72:LYS:O	1:B:155:MSE:HE1	2.08	0.54
1:B:263:ALA:HA	1:B:318:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:135:LEU:HD13	1:C:149:MSE:CE	2.37	0.54
1:D:198:VAL:CB	1:D:231:VAL:HG22	2.36	0.54
1:A:297:ASP:OD1	1:A:300:SER:HB2	2.08	0.54
1:C:169:ILE:HG13	1:C:172:GLU:OE1	2.08	0.54
1:B:98:LEU:HD21	1:B:131:ASP:CG	2.28	0.54
1:C:179:VAL:HG12	1:C:180:ILE:N	2.22	0.54
1:D:127:ILE:HD13	1:D:183:GLY:HA3	1.90	0.54
1:D:130:GLY:HA3	1:D:156:VAL:CG1	2.37	0.54
1:A:187:LEU:HD21	1:A:221:VAL:HA	1.89	0.54
1:B:262:TYR:OH	1:B:276:GLY:HA3	2.08	0.54
1:D:107:GLN:NE2	1:D:133:GLY:HA3	2.23	0.54
1:C:150:CYS:SG	1:C:183:GLY:HA2	2.48	0.54
1:B:127:ILE:CD1	1:B:187:LEU:HD22	2.38	0.54
1:D:109:MSE:HE1	1:D:310:TYR:CA	2.38	0.54
1:A:219:GLN:OE1	1:A:255:ILE:HD12	2.08	0.54
1:D:57:GLY:O	1:D:58:GLU:HB3	2.08	0.54
1:D:108:GLU:OE1	1:D:310:TYR:N	2.40	0.54
1:D:251:ASN:O	1:D:255:ILE:HG12	2.08	0.54
1:D:271:PRO:O	1:D:272:SER:OG	2.21	0.54
1:B:148:ASP:CG	1:B:177:ASN:HD22	2.11	0.54
1:C:146:GLN:HA	1:C:175:ARG:HB3	1.90	0.54
1:D:123:LYS:HE3	1:D:146:GLN:HE22	1.72	0.54
1:A:136:ARG:NH1	1:A:137:GLU:HG2	2.23	0.54
1:A:193:GLY:HA2	1:A:225:LEU:C	2.29	0.54
1:A:227:PRO:HB2	1:A:285:PRO:CD	2.38	0.54
1:A:135:LEU:HD21	1:A:176:VAL:HG21	1.90	0.54
1:B:114:PRO:HG2	1:B:115:LEU:H	1.73	0.54
1:D:311:ASN:O	1:D:314:ILE:N	2.40	0.54
1:A:80:VAL:HA	1:A:89:VAL:O	2.08	0.54
1:B:69:PHE:O	1:B:79:ILE:HA	2.08	0.54
1:B:198:VAL:O	1:B:231:VAL:HA	2.08	0.54
1:C:184:VAL:O	1:C:188:LYS:HB2	2.07	0.54
1:A:83:SER:HB2	1:A:89:VAL:HG21	1.88	0.54
1:A:127:ILE:CB	1:A:200:VAL:HG22	2.31	0.54
1:B:279:LEU:HG	1:B:319:PHE:HZ	1.73	0.54
1:A:104:CYS:HB3	1:A:308:LYS:CE	2.37	0.54
1:A:308:LYS:O	1:D:324:PHE:HB3	2.07	0.54
1:B:63:LYS:HB3	1:B:84:ALA:HB3	1.90	0.54
1:B:110:ILE:HD12	1:B:277:PHE:CE1	2.42	0.54
1:B:125:LEU:HB2	1:B:195:TYR:CE1	2.43	0.54
1:A:191:ALA:O	1:A:192:GLU:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:ILE:HG23	1:B:206:ILE:O	2.07	0.54
1:A:260:VAL:HB	1:A:278:MSE:CE	2.36	0.54
1:B:326:LYS:NZ	1:B:326:LYS:HB3	2.22	0.54
1:B:50:GLU:OE1	1:B:271:PRO:HD3	2.08	0.54
1:B:66:LYS:O	1:B:82:GLN:N	2.39	0.54
1:B:125:LEU:HD12	1:B:126:VAL:H	1.73	0.54
1:D:125:LEU:CD2	1:D:187:LEU:HD13	2.38	0.54
1:B:134:VAL:O	1:B:138:VAL:HG23	2.08	0.54
1:A:85:THR:OG1	1:D:57:GLY:HA3	2.08	0.54
1:D:108:GLU:HB3	1:D:310:TYR:HB2	1.89	0.54
1:B:142:ALA:HB3	2:B:401:HOH:O	2.08	0.54
1:D:110:ILE:HG13	1:D:232:CYS:SG	2.48	0.54
1:A:215:LYS:N	1:A:216:PRO:CD	2.71	0.54
1:C:86:TYR:HB3	1:C:99:THR:CG2	2.35	0.54
1:B:322:PRO:O	1:B:326:LYS:HG3	2.07	0.54
1:C:214:GLU:HB3	1:C:216:PRO:HD2	1.89	0.54
1:B:83:SER:HB3	1:B:87:GLY:O	2.08	0.54
1:B:125:LEU:HD12	1:B:126:VAL:N	2.23	0.54
1:C:233:THR:OG1	1:C:278:MSE:HB2	2.08	0.54
1:B:210:LYS:NZ	2:B:474:HOH:O	2.36	0.53
1:D:161:LYS:HA	1:D:168:ALA:CB	2.38	0.53
1:C:50:GLU:OE2	1:C:96:ILE:HB	2.08	0.53
1:D:311:ASN:OD1	1:D:314:ILE:HB	2.08	0.53
1:B:92:LEU:HB2	1:B:97:GLN:HE22	1.71	0.53
1:B:242:MSE:CE	1:B:325:ALA:HA	2.39	0.53
1:C:154:LYS:HD2	1:C:180:ILE:HG21	1.91	0.53
1:A:178:LEU:HD12	1:A:179:VAL:N	2.23	0.53
1:B:110:ILE:O	1:B:114:PRO:CD	2.57	0.53
1:B:215:LYS:HG2	1:B:251:ASN:HB3	1.90	0.53
1:C:62:LEU:N	1:C:62:LEU:HD12	2.23	0.53
1:D:108:GLU:OE2	1:D:307:LEU:HA	2.08	0.53
1:A:164:PHE:CB	1:A:167:VAL:HB	2.38	0.53
1:C:99:THR:O	1:C:103:GLU:HB3	2.08	0.53
1:D:98:LEU:HD12	1:D:98:LEU:C	2.29	0.53
1:B:48:PHE:CE2	1:B:96:ILE:HD11	2.42	0.53
1:B:152:ILE:HG22	2:B:409:HOH:O	2.09	0.53
1:C:125:LEU:HD12	1:C:126:VAL:H	1.72	0.53
1:D:253:ARG:HH12	1:D:330:GLU:HB2	1.72	0.53
1:A:236:GLU:HB3	1:A:241:HIS:HD2	1.70	0.53
1:C:261:ASN:HD22	1:C:289:PHE:HD2	1.57	0.53
1:A:238:LEU:HD13	1:A:322:PRO:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:123:LYS:HD3	1:D:194:SER:O	2.08	0.53
1:D:178:LEU:HD12	1:D:179:VAL:H	1.72	0.53
1:A:52:SER:HB3	1:A:55:TRP:NE1	2.23	0.53
1:A:231:VAL:HG12	1:A:280:CYS:HB2	1.90	0.53
1:B:69:PHE:HB2	1:B:163:PHE:CE2	2.44	0.53
1:B:154:LYS:HG2	1:B:158:ASP:OD2	2.09	0.53
1:B:130:GLY:O	1:B:131:ASP:CB	2.56	0.53
1:C:256:PHE:HB3	1:C:281:SER:O	2.08	0.53
1:A:104:CYS:O	1:A:108:GLU:HG3	2.08	0.53
1:A:211:GLU:HA	1:A:214:GLU:HG2	1.91	0.53
1:B:44:ILE:HB	1:B:47:TRP:HB2	1.91	0.53
1:B:104:CYS:O	1:B:108:GLU:HB2	2.08	0.53
1:D:233:THR:HG22	1:D:234:GLN:N	2.24	0.53
1:A:153:ASP:CG	1:A:156:VAL:HG23	2.29	0.53
1:B:38:ALA:N	1:B:70:GLN:HE22	2.07	0.53
1:C:200:VAL:CG2	1:C:233:THR:HG22	2.38	0.53
1:D:80:VAL:HG21	1:D:159:VAL:HG13	1.90	0.53
1:D:240:LEU:HD11	1:D:271:PRO:HB2	1.91	0.53
1:A:51:MSE:SE	1:C:72:LYS:O	2.77	0.53
1:C:236:GLU:HB3	1:C:241:HIS:HD2	1.74	0.53
1:D:262:TYR:HB2	1:D:278:MSE:SE	2.59	0.53
1:B:50:GLU:N	1:B:51:MSE:HE2	2.24	0.53
1:B:54:MSE:HB2	1:B:55:TRP:CE3	2.43	0.53
1:C:65:GLU:OE1	1:C:65:GLU:HA	2.08	0.53
1:C:132:GLY:CA	1:C:149:MSE:HE1	2.38	0.53
1:A:243:ASP:OD2	1:A:244:ILE:HG13	2.09	0.53
1:B:48:PHE:O	1:B:61:SER:HA	2.09	0.53
1:B:66:LYS:HD2	1:B:68:LEU:HD23	1.90	0.53
1:B:243:ASP:HB2	2:B:433:HOH:O	2.08	0.53
1:A:68:LEU:O	1:A:69:PHE:HB2	2.08	0.53
1:A:267:VAL:HG11	1:A:270:TYR:CD2	2.43	0.53
1:B:135:LEU:HD21	1:B:149:MSE:HG2	1.91	0.53
1:B:242:MSE:HG2	1:B:328:VAL:HG21	1.89	0.53
1:D:135:LEU:HB2	1:D:170:GLY:HA3	1.90	0.53
1:A:55:TRP:CZ3	1:A:271:PRO:HG3	2.44	0.53
1:A:326:LYS:C	1:A:328:VAL:H	2.10	0.53
1:D:131:ASP:HA	1:D:160:SER:HB3	1.91	0.53
1:A:67:VAL:O	1:C:46:GLY:HA2	2.07	0.53
1:C:99:THR:O	1:C:103:GLU:HB3	2.08	0.53
1:A:267:VAL:HG11	1:A:270:TYR:CE2	2.43	0.53
1:D:109:MSE:O	1:D:111:THR:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:VAL:HG12	1:A:44:ILE:N	2.23	0.53
1:A:178:LEU:CG	1:A:180:ILE:HG13	2.37	0.53
1:B:236:GLU:HB3	1:B:241:HIS:ND1	2.23	0.53
1:A:223:ARG:HD3	2:A:360:HOH:O	2.08	0.53
1:C:55:TRP:CZ3	1:C:271:PRO:HG3	2.44	0.53
1:A:53:PRO:O	1:A:56:PRO:HD3	2.09	0.53
1:A:55:TRP:CD2	1:A:271:PRO:HG3	2.43	0.53
1:C:98:LEU:HD21	1:C:131:ASP:HB3	1.91	0.53
1:C:297:ASP:HA	2:C:488:HOH:O	2.09	0.53
1:B:77:ASP:O	1:B:92:LEU:HA	2.09	0.53
1:B:87:GLY:HA3	1:B:100:GLU:HB2	1.90	0.53
1:C:55:TRP:HH2	1:C:95:VAL:HG22	1.73	0.53
1:C:256:PHE:HB2	1:C:260:VAL:HG21	1.89	0.53
1:A:173:ASP:HB3	1:A:176:VAL:HG23	1.89	0.53
1:A:212:LEU:HA	1:A:217:PHE:CD2	2.43	0.53
1:C:131:ASP:HA	1:C:160:SER:CB	2.38	0.53
1:C:66:LYS:HD3	2:C:447:HOH:O	2.08	0.53
1:C:297:ASP:HB3	2:C:352:HOH:O	2.07	0.53
1:D:118:ILE:HD13	1:D:230:VAL:HG22	1.91	0.53
1:C:99:THR:O	1:C:103:GLU:HB3	2.08	0.53
1:A:108:GLU:OE1	1:A:307:LEU:HB3	2.08	0.53
1:C:225:LEU:HD11	1:C:231:VAL:HG23	1.90	0.53
1:C:236:GLU:HB2	1:C:245:ILE:CG1	2.38	0.53
1:D:42:THR:HA	1:D:49:SER:CB	2.39	0.53
1:A:66:LYS:O	1:A:82:GLN:N	2.37	0.53
1:C:66:LYS:HD3	2:C:447:HOH:O	2.08	0.53
1:C:151:GLU:HG2	1:C:157:VAL:HG23	1.91	0.53
1:A:125:LEU:HD23	1:A:198:VAL:HG22	1.91	0.53
1:C:114:PRO:O	1:C:117:SER:HB2	2.09	0.53
1:D:232:CYS:HA	1:D:278:MSE:O	2.08	0.53
1:B:168:ALA:HA	1:B:171:TYR:CD2	2.44	0.53
1:C:82:GLN:HE22	1:C:88:LYS:H	1.57	0.53
1:D:69:PHE:HB2	1:D:163:PHE:CZ	2.43	0.53
1:D:105:ALA:O	1:D:109:MSE:HG2	2.09	0.53
1:B:139:ALA:HB1	1:B:175:ARG:NH2	2.23	0.53
1:C:135:LEU:O	1:C:170:GLY:HA3	2.08	0.53
1:C:241:HIS:HB3	2:C:525:HOH:O	2.09	0.53
1:A:68:LEU:HD22	1:A:88:LYS:HZ3	1.74	0.53
1:D:96:ILE:HG21	1:D:269:THR:HG22	1.91	0.53
1:D:99:THR:HG23	1:D:269:THR:HG21	1.90	0.53
1:A:239:TRP:CD1	1:A:274:VAL:HG21	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:193:GLY:HA2	1:B:225:LEU:O	2.09	0.53
1:A:231:VAL:HG22	1:A:232:CYS:N	2.24	0.53
1:B:114:PRO:HB3	1:B:279:LEU:CD1	2.39	0.53
1:B:129:GLY:HA3	1:B:149:MSE:SE	2.58	0.53
1:B:187:LEU:HD21	1:B:221:VAL:CG2	2.30	0.53
1:D:200:VAL:HG12	1:D:202:SER:HB3	1.89	0.53
1:A:128:GLY:O	1:A:130:GLY:N	2.42	0.53
1:C:135:LEU:HD13	1:C:149:MSE:CE	2.38	0.53
1:D:111:THR:O	1:D:115:LEU:HD13	2.08	0.53
1:B:58:GLU:HA	1:C:61:SER:O	2.09	0.53
1:C:297:ASP:HB3	2:C:351:HOH:O	2.09	0.53
1:A:78:VAL:HG12	1:A:80:VAL:CG2	2.39	0.53
1:A:261:ASN:N	1:A:261:ASN:ND2	2.56	0.53
1:A:263:ALA:HB2	1:A:319:PHE:CE1	2.44	0.53
1:B:184:VAL:O	1:B:188:LYS:HG3	2.09	0.53
1:C:228:GLY:CA	1:C:285:PRO:HD2	2.39	0.53
1:C:160:SER:O	1:C:168:ALA:HB2	2.09	0.53
1:C:215:LYS:HE2	1:C:251:ASN:HA	1.90	0.53
1:D:140:ARG:CB	1:D:296:ILE:HD11	2.38	0.53
1:A:137:GLU:OE1	1:A:140:ARG:HD2	2.09	0.53
1:A:157:VAL:HG12	1:A:161:LYS:HE3	1.91	0.53
1:C:218:PHE:HE1	1:C:233:THR:HG21	1.73	0.53
1:D:196:ASP:OD1	1:D:226:ARG:CZ	2.57	0.53
1:B:244:ILE:HG13	2:B:433:HOH:O	2.08	0.53
1:C:185:ALA:O	1:C:188:LYS:HB2	2.09	0.53
1:C:238:LEU:HD21	1:C:262:TYR:CE2	2.44	0.53
1:B:172:GLU:O	1:B:173:ASP:C	2.47	0.53
1:C:297:ASP:OD1	1:C:298:GLU:N	2.38	0.53
1:D:200:VAL:O	1:D:233:THR:HG23	2.08	0.53
1:D:264:TRP:CH2	1:D:322:PRO:HD3	2.44	0.53
1:A:121:PRO:O	1:A:144:ILE:HD13	2.09	0.53
1:B:123:LYS:O	1:B:124:VAL:HG23	2.09	0.53
1:B:142:ALA:CB	2:B:401:HOH:O	2.56	0.53
1:D:125:LEU:CD2	1:D:187:LEU:HD13	2.39	0.53
1:D:159:VAL:HG13	1:D:163:PHE:CD2	2.44	0.53
1:C:155:MSE:O	1:C:159:VAL:HG23	2.09	0.53
1:D:252:CYS:HB2	1:D:278:MSE:CE	2.39	0.53
1:A:41:SER:HA	1:D:39:CYS:O	2.08	0.53
1:A:88:LYS:HD2	1:A:163:PHE:O	2.09	0.53
1:B:242:MSE:HE3	1:B:325:ALA:HA	1.91	0.53
1:A:322:PRO:HB3	1:D:309:PHE:CD1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:259:SER:O	1:D:280:CYS:HA	2.09	0.53
1:C:257:LYS:HE2	2:C:364:HOH:O	2.08	0.53
1:A:66:LYS:HG2	1:A:82:GLN:HB3	1.90	0.53
1:B:127:ILE:O	1:B:200:VAL:HA	2.09	0.53
1:C:311:ASN:HD21	1:C:314:ILE:N	2.06	0.53
1:B:149:MSE:HB2	1:B:178:LEU:HA	1.91	0.53
1:B:238:LEU:O	1:B:242:MSE:HE2	2.09	0.53
1:A:121:PRO:O	1:A:144:ILE:HD13	2.08	0.53
1:B:49:SER:CB	1:B:51:MSE:HE2	2.33	0.53
1:B:242:MSE:HE3	1:B:242:MSE:HA	1.90	0.53
1:C:68:LEU:HG	1:C:81:PHE:HA	1.91	0.53
1:D:51:MSE:O	1:D:52:SER:HB2	2.09	0.53
1:A:43:VAL:H	1:C:162:GLN:NE2	2.04	0.52
1:A:70:GLN:HG3	1:A:79:ILE:HG12	1.91	0.52
1:C:206:ILE:HG23	1:C:207:GLY:N	2.24	0.52
1:B:48:PHE:C	1:B:48:PHE:HD2	2.12	0.52
1:B:127:ILE:N	1:B:127:ILE:HD12	2.24	0.52
1:B:228:GLY:CA	1:B:285:PRO:HD2	2.39	0.52
1:C:297:ASP:HB3	2:C:349:HOH:O	2.08	0.52
1:B:231:VAL:CG2	1:B:232:CYS:N	2.72	0.52
1:A:134:VAL:O	1:A:138:VAL:HG23	2.09	0.52
1:B:227:PRO:HG2	2:B:467:HOH:O	2.09	0.52
1:C:307:LEU:HD12	1:C:307:LEU:H	1.73	0.52
1:A:86:TYR:HB3	1:A:99:THR:HG23	1.91	0.52
1:A:242:MSE:HE2	1:A:242:MSE:HA	1.91	0.52
1:D:126:VAL:CB	1:D:149:MSE:SE	3.04	0.52
1:A:238:LEU:HD11	1:A:321:LEU:HD22	1.90	0.52
1:C:238:LEU:HD11	1:C:321:LEU:HD22	1.91	0.52
1:B:51:MSE:HG2	1:B:59:ALA:HB2	1.91	0.52
1:B:192:GLU:HG3	1:B:223:ARG:NH1	2.23	0.52
1:A:90:LEU:HD23	1:A:90:LEU:C	2.29	0.52
1:C:253:ARG:HA	1:C:260:VAL:HG21	1.90	0.52
1:C:270:TYR:CD2	1:C:275:ILE:HB	2.44	0.52
1:A:111:THR:OG1	1:A:138:VAL:HG23	2.10	0.52
1:A:260:VAL:CG2	1:A:278:MSE:HE1	2.40	0.52
1:A:105:ALA:O	1:A:109:MSE:HG2	2.09	0.52
1:A:164:PHE:HB3	1:A:167:VAL:HB	1.91	0.52
1:B:309:PHE:CE1	1:C:322:PRO:HB3	2.44	0.52
1:C:63:LYS:HB3	1:C:84:ALA:HB3	1.91	0.52
1:A:131:ASP:HB2	1:A:167:VAL:HG11	1.91	0.52
1:D:313:GLU:CD	1:D:313:GLU:N	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:GLU:CG	1:A:152:ILE:N	2.71	0.52
1:B:228:GLY:HA3	1:B:285:PRO:HD2	1.90	0.52
1:D:217:PHE:O	1:D:221:VAL:HG23	2.10	0.52
1:D:231:VAL:HG21	1:D:256:PHE:CZ	2.44	0.52
1:A:219:GLN:OE1	1:A:255:ILE:HD12	2.09	0.52
1:C:206:ILE:HG23	1:C:207:GLY:H	1.74	0.52
1:D:109:MSE:CE	1:D:310:TYR:HB2	2.38	0.52
1:D:262:TYR:OH	1:D:276:GLY:HA3	2.10	0.52
1:D:98:LEU:HD12	1:D:98:LEU:C	2.30	0.52
1:B:85:THR:OG1	1:C:57:GLY:HA3	2.10	0.52
1:A:271:PRO:HG2	2:A:378:HOH:O	2.09	0.52
1:B:42:THR:HA	1:B:49:SER:HB2	1.92	0.52
1:C:261:ASN:HD22	1:C:289:PHE:HD2	1.56	0.52
1:D:88:LYS:HB2	1:D:100:GLU:HG3	1.92	0.52
1:A:164:PHE:HB3	1:A:167:VAL:CG2	2.40	0.52
1:B:73:SER:CB	1:B:155:MSE:SE	2.98	0.52
1:B:271:PRO:O	1:B:272:SER:HB3	2.08	0.52
1:C:65:GLU:HB3	1:C:82:GLN:O	2.10	0.52
1:A:313:GLU:HB2	1:D:326:LYS:NZ	2.25	0.52
1:B:126:VAL:O	1:B:126:VAL:CG1	2.57	0.52
1:C:272:SER:C	1:C:274:VAL:H	2.13	0.52
1:D:293:LEU:HD23	1:D:293:LEU:H	1.75	0.52
1:A:86:TYR:O	1:A:99:THR:HG23	2.09	0.52
1:A:104:CYS:O	1:A:108:GLU:HB2	2.10	0.52
1:A:328:VAL:HG12	1:A:328:VAL:O	2.10	0.52
1:C:109:MSE:HE1	1:C:314:ILE:HG23	1.92	0.52
1:D:54:MSE:HE2	1:D:204:ASP:OD1	2.10	0.52
1:B:113:LEU:HB3	1:B:114:PRO:CD	2.38	0.52
1:B:173:ASP:HB3	1:B:176:VAL:HG23	1.91	0.52
1:D:109:MSE:CE	1:D:113:LEU:HD11	2.38	0.52
1:D:245:ILE:C	1:D:247:ASP:N	2.62	0.52
1:D:264:TRP:N	1:D:318:ALA:O	2.40	0.52
1:C:297:ASP:HB3	2:C:352:HOH:O	2.10	0.52
1:A:149:MSE:CG	1:A:178:LEU:HD13	2.38	0.52
1:A:329:ILE:O	1:A:330:GLU:HB2	2.08	0.52
1:B:42:THR:O	1:C:43:VAL:HG13	2.09	0.52
1:D:329:ILE:HG22	1:D:329:ILE:O	2.09	0.52
1:C:206:ILE:HG23	1:C:207:GLY:N	2.24	0.52
1:A:108:GLU:HB3	1:A:112:HIS:HD2	1.74	0.52
1:C:58:GLU:O	1:C:59:ALA:HB2	2.10	0.52
1:A:72:LYS:HB2	1:A:72:LYS:NZ	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:228:GLY:CA	1:B:285:PRO:HD2	2.40	0.52
1:D:68:LEU:HD21	1:D:88:LYS:NZ	2.23	0.52
1:B:51:MSE:HG3	2:B:377:HOH:O	2.08	0.52
1:C:219:GLN:OE1	1:C:255:ILE:HD12	2.08	0.52
1:D:109:MSE:HE3	1:D:265:THR:OG1	2.09	0.52
1:B:227:PRO:HG2	2:B:471:HOH:O	2.08	0.52
1:D:123:LYS:HD3	1:D:194:SER:O	2.09	0.52
1:D:132:GLY:HA3	1:D:167:VAL:O	2.10	0.52
1:A:242:MSE:CE	1:A:245:ILE:HD12	2.40	0.52
1:B:166:ASP:O	1:B:167:VAL:HG13	2.10	0.52
1:A:140:ARG:HA	1:A:304:ASN:OD1	2.09	0.52
1:B:122:LYS:HD3	1:B:145:GLU:OE2	2.08	0.52
1:B:125:LEU:HB2	1:B:195:TYR:CE1	2.44	0.52
1:B:130:GLY:O	1:B:131:ASP:CB	2.57	0.52
1:C:48:PHE:O	1:C:61:SER:HA	2.10	0.52
1:C:86:TYR:HB3	1:C:99:THR:CG2	2.40	0.52
1:D:40:PHE:O	1:D:42:THR:N	2.42	0.52
1:D:243:ASP:HA	1:D:246:GLU:OE1	2.09	0.52
1:A:237:SER:HA	2:A:430:HOH:O	2.08	0.52
1:A:298:GLU:HG2	1:A:305:GLY:O	2.10	0.52
1:A:126:VAL:HB	1:A:149:MSE:HG2	1.92	0.52
1:C:66:LYS:HD3	1:C:68:LEU:CD2	2.39	0.52
1:A:111:THR:C	1:A:114:PRO:HD2	2.29	0.52
1:B:123:LYS:O	1:B:124:VAL:HG23	2.09	0.52
1:B:231:VAL:HG11	1:B:256:PHE:CZ	2.45	0.52
1:A:197:ALA:HA	1:A:230:VAL:O	2.09	0.52
1:B:44:ILE:HD13	1:C:51:MSE:CE	2.39	0.52
1:D:96:ILE:HG21	1:D:269:THR:HG22	1.92	0.52
1:B:54:MSE:SE	1:B:54:MSE:H	2.43	0.52
1:A:215:LYS:N	1:A:251:ASN:HD22	2.08	0.52
1:C:200:VAL:CG2	1:C:233:THR:HG22	2.39	0.52
1:D:263:ALA:HB2	1:D:319:PHE:CE1	2.44	0.52
1:A:288:ASP:O	1:A:290:LYS:N	2.43	0.52
1:B:263:ALA:HB2	1:B:319:PHE:CE1	2.45	0.52
1:C:116:CYS:SG	1:C:294:ASN:O	2.64	0.52
1:A:215:LYS:H	1:A:216:PRO:HD3	1.75	0.52
1:B:98:LEU:HD11	1:B:131:ASP:OD2	2.09	0.52
1:B:98:LEU:C	1:B:98:LEU:HD12	2.30	0.52
1:B:234:GLN:HE22	1:B:236:GLU:N	2.08	0.52
1:C:232:CYS:HA	1:C:278:MSE:O	2.10	0.52
1:C:72:LYS:HE2	1:C:77:ASP:OD2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:PHE:HZ	1:A:155:MSE:HE2	1.74	0.52
1:B:228:GLY:HA3	1:B:285:PRO:HD2	1.92	0.52
1:D:200:VAL:HB	1:D:233:THR:HG23	1.91	0.52
1:A:104:CYS:O	1:A:108:GLU:HG3	2.10	0.52
1:B:121:PRO:O	1:B:122:LYS:HD2	2.09	0.52
1:C:195:TYR:O	1:C:226:ARG:HG2	2.10	0.52
1:C:155:MSE:O	1:C:159:VAL:HG23	2.10	0.52
1:A:68:LEU:CD1	1:A:80:VAL:HG12	2.36	0.52
1:A:166:ASP:O	1:A:169:ILE:HG22	2.10	0.52
1:B:234:GLN:HE22	1:B:236:GLU:H	1.58	0.52
1:D:76:GLN:CD	1:D:92:LEU:HD22	2.29	0.52
1:A:257:LYS:HB2	2:A:574:HOH:O	2.09	0.52
1:C:65:GLU:OE1	1:C:65:GLU:HA	2.10	0.52
1:C:187:LEU:HD21	1:C:221:VAL:HA	1.92	0.52
1:D:91:VAL:HA	1:D:95:VAL:O	2.09	0.52
1:B:103:GLU:HB3	1:B:107:GLN:NE2	2.25	0.52
1:A:99:THR:HB	1:A:102:ASP:OD1	2.10	0.52
1:B:308:LYS:O	1:C:323:SER:HB2	2.10	0.52
1:A:70:GLN:HE21	1:A:71:GLY:N	2.07	0.52
1:C:100:GLU:HA	1:C:103:GLU:OE2	2.10	0.52
1:C:152:ILE:HG12	1:C:152:ILE:O	2.09	0.52
1:B:123:LYS:O	1:B:195:TYR:HD1	1.92	0.52
1:C:123:LYS:HD3	1:C:194:SER:O	2.10	0.52
1:C:165:PRO:C	1:C:167:VAL:H	2.12	0.52
1:C:182:ASP:OD2	1:C:185:ALA:HB2	2.09	0.52
1:D:263:ALA:HB2	1:D:319:PHE:CE1	2.45	0.52
1:B:234:GLN:NE2	1:B:236:GLU:N	2.57	0.52
1:C:256:PHE:HD1	1:C:282:THR:HG22	1.74	0.52
1:C:307:LEU:N	1:C:307:LEU:CD1	2.73	0.52
1:B:116:CYS:HB3	1:B:294:ASN:O	2.10	0.52
1:C:68:LEU:O	1:C:69:PHE:HB2	2.10	0.52
1:C:223:ARG:HA	2:C:477:HOH:O	2.10	0.52
1:D:161:LYS:HA	1:D:168:ALA:CB	2.39	0.52
1:D:262:TYR:HA	1:D:277:PHE:O	2.10	0.52
1:B:112:HIS:NE2	1:B:307:LEU:HD11	2.25	0.52
1:C:169:ILE:O	1:C:172:GLU:HB2	2.10	0.52
1:D:147:ILE:HB	1:D:176:VAL:HA	1.92	0.52
1:B:263:ALA:HB2	1:B:319:PHE:CE1	2.45	0.52
1:A:151:GLU:O	1:A:180:ILE:HA	2.09	0.52
1:C:99:THR:HB	1:C:102:ASP:OD1	2.10	0.52
1:D:136:ARG:HG2	1:D:136:ARG:HH11	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:125:LEU:CD2	1:C:187:LEU:HD13	2.40	0.52
1:C:235:ALA:O	1:C:236:GLU:HB2	2.10	0.52
1:D:109:MSE:HB3	1:D:277:PHE:CZ	2.45	0.52
1:A:261:ASN:OD1	1:A:290:LYS:HE3	2.09	0.52
1:A:324:PHE:O	1:A:327:LYS:HG2	2.10	0.52
1:B:178:LEU:HD12	1:B:179:VAL:H	1.74	0.52
1:D:198:VAL:H	1:D:231:VAL:HG22	1.75	0.52
1:D:126:VAL:HG12	1:D:149:MSE:SE	2.59	0.52
1:C:295:PRO:HG3	1:C:312:ALA:HB2	1.92	0.51
1:B:166:ASP:HB2	2:B:372:HOH:O	2.10	0.51
1:B:223:ARG:NH1	2:B:483:HOH:O	2.42	0.51
1:D:64:VAL:HG22	1:D:81:PHE:CD1	2.45	0.51
1:B:202:SER:OG	1:B:234:GLN:HB3	2.10	0.51
1:C:167:VAL:HG23	2:C:452:HOH:O	2.09	0.51
1:C:170:GLY:HA2	2:C:460:HOH:O	2.09	0.51
1:D:310:TYR:CD1	1:D:311:ASN:N	2.79	0.51
1:B:226:ARG:HG2	1:B:227:PRO:O	2.10	0.51
1:C:80:VAL:HG21	1:C:159:VAL:HG11	1.92	0.51
1:C:166:ASP:O	1:C:169:ILE:HG22	2.10	0.51
1:D:238:LEU:HD12	1:D:264:TRP:CE3	2.44	0.51
1:A:249:VAL:HA	1:A:278:MSE:CE	2.39	0.51
1:B:43:VAL:HG23	1:B:44:ILE:HG13	1.91	0.51
1:D:60:HIS:CE1	1:D:272:SER:H	2.28	0.51
1:B:122:LYS:HD2	1:B:145:GLU:CG	2.37	0.51
1:B:122:LYS:HA	1:B:144:ILE:HA	1.92	0.51
1:C:205:PRO:HB3	1:C:213:PHE:CD1	2.45	0.51
1:A:68:LEU:HB3	1:A:163:PHE:CE1	2.44	0.51
1:B:312:ALA:O	1:B:315:HIS:HB3	2.09	0.51
1:D:312:ALA:O	1:D:315:HIS:HB3	2.10	0.51
1:D:40:PHE:O	1:D:42:THR:N	2.42	0.51
1:A:128:GLY:O	1:A:130:GLY:N	2.44	0.51
1:C:122:LYS:HB3	1:C:145:GLU:HG3	1.92	0.51
1:B:200:VAL:HG11	1:B:212:LEU:HD13	1.91	0.51
1:C:87:GLY:O	1:C:88:LYS:C	2.49	0.51
1:D:96:ILE:HG21	1:D:269:THR:HG22	1.93	0.51
1:A:215:LYS:HD3	1:A:254:GLU:OE1	2.10	0.51
1:B:249:VAL:HG22	1:B:278:MSE:SE	2.59	0.51
1:A:297:ASP:CG	1:A:298:GLU:H	2.13	0.51
1:B:87:GLY:HA3	1:B:100:GLU:HB2	1.92	0.51
1:B:249:VAL:HA	1:B:278:MSE:CE	2.40	0.51
1:C:157:VAL:O	1:C:161:LYS:HG3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:211:GLU:C	1:D:213:PHE:H	2.13	0.51
1:A:206:ILE:HD11	2:A:448:HOH:O	2.11	0.51
1:D:226:ARG:NH2	1:D:227:PRO:O	2.44	0.51
1:D:99:THR:HG21	1:D:269:THR:HG21	1.90	0.51
1:D:327:LYS:HD3	2:D:342:HOH:O	2.11	0.51
1:B:48:PHE:C	1:B:48:PHE:CD2	2.83	0.51
1:C:53:PRO:O	1:C:56:PRO:HD3	2.10	0.51
1:A:129:GLY:O	1:A:131:ASP:N	2.43	0.51
1:A:310:TYR:CD1	1:A:311:ASN:N	2.78	0.51
1:C:154:LYS:HB2	1:C:180:ILE:CG2	2.39	0.51
1:C:180:ILE:HD12	1:C:180:ILE:H	1.74	0.51
1:A:260:VAL:HA	1:A:280:CYS:HA	1.92	0.51
1:C:141:HIS:O	1:C:142:ALA:C	2.49	0.51
1:C:292:PRO:HB2	1:C:295:PRO:CB	2.38	0.51
1:A:54:MSE:HE2	1:A:54:MSE:HA	1.91	0.51
1:C:232:CYS:HB2	1:C:279:LEU:CD1	2.40	0.51
1:A:259:SER:O	1:A:280:CYS:HA	2.10	0.51
1:A:260:VAL:HB	1:A:278:MSE:HE2	1.90	0.51
1:B:264:TRP:HA	1:B:276:GLY:HA2	1.92	0.51
1:D:257:LYS:CB	1:D:283:GLU:HB2	2.39	0.51
1:A:51:MSE:HE3	1:D:44:ILE:HD13	1.91	0.51
1:B:42:THR:HG23	1:C:43:VAL:HG22	1.92	0.51
1:B:51:MSE:CE	1:C:44:ILE:HD12	2.39	0.51
1:B:140:ARG:HE	1:B:307:LEU:HD21	1.76	0.51
1:B:249:VAL:HG11	1:B:329:ILE:CG2	2.40	0.51
1:C:70:GLN:HG2	1:C:79:ILE:HG23	1.92	0.51
1:B:131:ASP:OD1	1:B:167:VAL:HG21	2.09	0.51
1:B:223:ARG:HG2	1:B:223:ARG:NH1	2.19	0.51
1:B:239:TRP:HB2	1:B:272:SER:OG	2.10	0.51
1:B:71:GLY:O	1:B:72:LYS:HB2	2.09	0.51
1:B:187:LEU:HD21	1:B:221:VAL:CG2	2.30	0.51
1:C:192:GLU:HA	1:C:224:ALA:HA	1.91	0.51
1:D:42:THR:HA	1:D:49:SER:HB2	1.92	0.51
1:D:113:LEU:N	1:D:114:PRO:HD2	2.26	0.51
1:A:130:GLY:O	1:A:131:ASP:HB3	2.10	0.51
1:A:240:LEU:HD11	1:A:271:PRO:HB2	1.91	0.51
1:D:115:LEU:HD23	1:D:141:HIS:CD2	2.45	0.51
1:A:324:PHE:CG	1:A:325:ALA:N	2.78	0.51
1:C:149:MSE:HE2	1:C:171:TYR:HE1	1.75	0.51
1:C:210:LYS:O	1:C:210:LYS:HD3	2.11	0.51
1:A:320:CYS:SG	1:D:317:ALA:HB2	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:136:ARG:NH1	1:C:166:ASP:HB3	2.26	0.51
1:D:73:SER:HB3	1:D:155:MSE:SE	2.61	0.51
1:A:161:LYS:HA	1:A:168:ALA:HB2	1.91	0.51
1:C:79:ILE:HB	1:C:91:VAL:HB	1.91	0.51
1:B:241:HIS:HB3	2:B:376:HOH:O	2.09	0.51
1:C:272:SER:O	1:C:274:VAL:HG22	2.11	0.51
1:A:72:LYS:H	1:C:51:MSE:SE	2.44	0.51
1:C:264:TRP:CZ2	1:C:322:PRO:HD3	2.45	0.51
1:D:108:GLU:CB	1:D:109:MSE:HE2	2.41	0.51
1:C:99:THR:CG2	1:C:102:ASP:H	2.23	0.51
1:A:311:ASN:OD1	1:A:314:ILE:HG22	2.11	0.51
1:B:43:VAL:HG23	1:B:44:ILE:HG13	1.92	0.51
1:D:73:SER:HA	1:D:155:MSE:CE	2.40	0.51
1:A:54:MSE:SE	1:A:205:PRO:HG3	2.60	0.51
1:C:103:GLU:O	1:C:107:GLN:HG3	2.09	0.51
1:C:262:TYR:OH	1:C:276:GLY:HA3	2.11	0.51
1:A:242:MSE:CE	1:A:245:ILE:HD12	2.41	0.51
1:A:297:ASP:O	1:A:298:GLU:HB2	2.11	0.51
1:C:129:GLY:HA3	1:C:151:GLU:HB2	1.93	0.51
1:C:256:PHE:HD1	1:C:282:THR:HA	1.75	0.51
1:A:320:CYS:SG	1:D:317:ALA:HB2	2.51	0.51
1:B:153:ASP:CG	1:B:155:MSE:HB2	2.30	0.51
1:B:252:CYS:SG	1:B:278:MSE:HE2	2.50	0.51
1:C:70:GLN:NE2	2:C:360:HOH:O	2.43	0.51
1:A:125:LEU:HD23	1:A:198:VAL:HG13	1.92	0.51
1:A:238:LEU:HA	1:A:245:ILE:CD1	2.39	0.51
1:B:257:LYS:HE3	1:B:283:GLU:HB2	1.91	0.51
1:C:72:LYS:HE2	1:C:77:ASP:OD1	2.10	0.51
1:C:136:ARG:NH2	1:C:167:VAL:HG13	2.26	0.51
1:A:244:ILE:O	1:A:248:ILE:HG13	2.10	0.51
1:A:261:ASN:HD21	1:A:289:PHE:HD2	1.57	0.51
1:B:51:MSE:N	1:B:51:MSE:CE	2.74	0.51
1:C:134:VAL:HG12	1:C:138:VAL:HG23	1.91	0.51
1:C:171:TYR:CE1	1:C:178:LEU:HD22	2.46	0.51
1:C:198:VAL:HG21	1:C:221:VAL:HG13	1.93	0.51
1:B:126:VAL:HG22	1:B:199:ILE:HD12	1.92	0.51
1:B:127:ILE:HD11	1:B:187:LEU:HD21	1.91	0.51
1:B:324:PHE:HD2	1:C:308:LYS:O	1.94	0.51
1:C:129:GLY:CA	1:C:151:GLU:HB2	2.40	0.51
1:D:228:GLY:N	1:D:285:PRO:HD2	2.25	0.51
1:C:121:PRO:O	1:C:144:ILE:HD13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:182:ASP:OD1	1:C:184:VAL:HG22	2.11	0.51
1:D:185:ALA:O	1:D:186:PHE:C	2.49	0.51
1:A:154:LYS:HB2	1:A:180:ILE:CD1	2.36	0.51
1:D:109:MSE:HE3	1:D:310:TYR:HA	1.93	0.51
1:B:43:VAL:HG23	1:B:44:ILE:HG13	1.92	0.51
1:B:48:PHE:O	1:B:61:SER:HA	2.11	0.51
1:B:113:LEU:HD23	1:B:315:HIS:CE1	2.46	0.51
1:B:228:GLY:N	1:B:282:THR:OG1	2.44	0.51
1:C:329:ILE:O	1:C:329:ILE:HG22	2.11	0.51
1:A:129:GLY:N	1:A:149:MSE:SE	2.94	0.51
1:A:209:ALA:HB1	1:A:212:LEU:HD11	1.92	0.51
1:A:246:GLU:OE1	1:A:328:VAL:HG13	2.11	0.51
1:C:238:LEU:HD11	1:C:321:LEU:CD2	2.41	0.51
1:C:121:PRO:O	1:C:144:ILE:HD13	2.11	0.51
1:A:154:LYS:HB2	1:A:180:ILE:CD1	2.36	0.51
1:B:98:LEU:C	1:B:98:LEU:HD12	2.31	0.51
1:C:131:ASP:HB2	1:C:167:VAL:HG11	1.93	0.51
1:C:329:ILE:O	1:C:329:ILE:HG22	2.09	0.51
1:D:259:SER:O	1:D:280:CYS:HA	2.11	0.51
1:B:79:ILE:HD12	1:B:79:ILE:H	1.76	0.51
1:C:129:GLY:N	1:C:149:MSE:SE	2.94	0.51
1:D:109:MSE:HG2	1:D:265:THR:CB	2.41	0.51
1:B:130:GLY:O	1:B:131:ASP:HB2	2.11	0.51
1:D:227:PRO:O	1:D:285:PRO:HD2	2.11	0.51
1:B:129:GLY:O	1:B:130:GLY:C	2.48	0.51
1:B:205:PRO:HB3	1:B:213:PHE:CE1	2.45	0.51
1:A:127:ILE:HD13	1:A:217:PHE:HZ	1.75	0.51
1:B:296:ILE:HD12	1:B:307:LEU:HD11	1.92	0.51
1:C:89:VAL:HA	1:C:98:LEU:O	2.11	0.51
1:C:169:ILE:HA	1:C:172:GLU:OE1	2.11	0.51
1:D:76:GLN:OE1	1:D:92:LEU:HD22	2.11	0.51
1:B:187:LEU:HG	1:B:221:VAL:HG23	1.93	0.51
1:A:231:VAL:CG1	1:A:280:CYS:HB2	2.41	0.51
1:B:105:ALA:O	1:B:109:MSE:HG2	2.11	0.51
1:B:153:ASP:OD1	1:B:155:MSE:HB3	2.10	0.51
1:A:264:TRP:HD1	1:A:318:ALA:O	1.94	0.51
2:B:490:HOH:O	1:C:51:MSE:HE1	2.11	0.51
1:D:151:GLU:OE1	1:D:152:ILE:N	2.44	0.51
1:D:256:PHE:HD1	1:D:282:THR:HG22	1.76	0.51
1:B:43:VAL:HG22	1:B:49:SER:OG	2.11	0.51
1:B:206:ILE:HG23	1:B:207:GLY:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:109:MSE:HE2	1:D:310:TYR:CA	2.40	0.51
1:A:155:MSE:O	1:A:158:ASP:HB2	2.11	0.51
1:A:173:ASP:HB3	1:A:176:VAL:HG23	1.92	0.51
1:B:187:LEU:HD23	1:B:217:PHE:CE1	2.45	0.51
1:A:69:PHE:HZ	1:A:155:MSE:SE	2.44	0.51
1:A:191:ALA:HB3	1:A:194:SER:HB3	1.93	0.51
1:B:96:ILE:HG21	1:B:269:THR:CG2	2.41	0.51
1:D:111:THR:HG22	1:D:134:VAL:HG13	1.93	0.51
1:A:76:GLN:OE1	1:A:92:LEU:HD22	2.11	0.51
1:C:137:GLU:OE1	1:C:140:ARG:HD2	2.11	0.51
1:D:52:SER:C	1:D:54:MSE:N	2.64	0.51
1:A:46:GLY:HA3	1:A:63:LYS:NZ	2.25	0.51
1:C:158:ASP:OD1	1:D:45:PRO:HB3	2.10	0.51
1:C:242:MSE:O	1:C:246:GLU:HB2	2.11	0.51
1:D:92:LEU:HD12	1:D:97:GLN:HG2	1.93	0.51
1:C:66:LYS:HG2	1:C:82:GLN:HB2	1.93	0.51
1:D:257:LYS:HD3	2:D:417:HOH:O	2.11	0.51
1:C:179:VAL:HG12	1:C:180:ILE:H	1.76	0.51
1:D:51:MSE:O	1:D:52:SER:CB	2.58	0.51
1:D:246:GLU:CD	1:D:328:VAL:HG11	2.30	0.51
1:A:164:PHE:HB3	1:A:167:VAL:HB	1.93	0.50
1:A:252:CYS:HB3	1:A:280:CYS:SG	2.51	0.50
1:A:263:ALA:HB2	1:A:319:PHE:CZ	2.45	0.50
1:C:123:LYS:HG2	1:C:195:TYR:HD1	1.75	0.50
1:A:91:VAL:HG13	1:A:95:VAL:H	1.76	0.50
1:A:257:LYS:NZ	2:A:566:HOH:O	2.43	0.50
1:A:327:LYS:HG3	1:A:328:VAL:HG23	1.92	0.50
1:C:329:ILE:O	1:C:329:ILE:HG22	2.11	0.50
1:D:55:TRP:HH2	1:D:204:ASP:OD1	1.94	0.50
1:D:149:MSE:HE2	1:D:151:GLU:HG2	1.92	0.50
1:B:312:ALA:O	1:B:315:HIS:HB3	2.11	0.50
1:C:227:PRO:CB	1:C:284:GLY:HA3	2.40	0.50
1:A:46:GLY:HA3	1:A:63:LYS:NZ	2.26	0.50
1:C:323:SER:O	1:C:327:LYS:HG2	2.12	0.50
1:A:103:GLU:O	1:A:107:GLN:HG3	2.11	0.50
1:B:197:ALA:HA	1:B:230:VAL:O	2.11	0.50
1:B:229:GLY:O	1:B:281:SER:HA	2.11	0.50
1:C:240:LEU:HD11	1:C:272:SER:HB3	1.93	0.50
1:D:105:ALA:O	1:D:109:MSE:HB2	2.11	0.50
1:D:265:THR:CG2	1:D:275:ILE:HG22	2.40	0.50
1:A:80:VAL:HG21	1:A:159:VAL:HG12	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:68:LEU:HG	1:D:163:PHE:CE1	2.46	0.50
1:A:159:VAL:HG13	1:A:163:PHE:CD2	2.46	0.50
1:A:265:THR:HG22	1:A:275:ILE:HG22	1.92	0.50
1:B:105:ALA:HA	1:B:309:PHE:CG	2.46	0.50
1:A:44:ILE:N	1:A:44:ILE:CD1	2.74	0.50
1:A:165:PRO:HG2	1:A:166:ASP:H	1.76	0.50
1:B:61:SER:O	1:C:58:GLU:HA	2.11	0.50
1:B:240:LEU:CG	1:B:272:SER:HB2	2.41	0.50
1:C:217:PHE:O	1:C:220:SER:HB3	2.11	0.50
1:A:270:TYR:HB3	1:A:271:PRO:HD2	1.93	0.50
1:D:109:MSE:HG2	1:D:265:THR:CG2	2.41	0.50
1:A:54:MSE:O	1:A:56:PRO:HD3	2.12	0.50
1:D:125:LEU:HD12	1:D:126:VAL:H	1.77	0.50
1:A:310:TYR:CD1	1:A:311:ASN:N	2.79	0.50
1:A:323:SER:O	1:A:327:LYS:HG2	2.12	0.50
1:C:118:ILE:HB	1:C:119:PRO:HD2	1.94	0.50
1:C:210:LYS:O	1:C:214:GLU:HG2	2.11	0.50
1:B:236:GLU:HB3	1:B:241:HIS:HB2	1.92	0.50
1:A:136:ARG:HH21	1:A:167:VAL:CG1	2.24	0.50
1:D:151:GLU:HG2	1:D:157:VAL:CG2	2.41	0.50
1:A:328:VAL:C	1:A:330:GLU:H	2.15	0.50
1:C:253:ARG:HA	1:C:260:VAL:HG21	1.93	0.50
1:D:111:THR:CG2	1:D:134:VAL:HG13	2.41	0.50
1:A:99:THR:HB	1:A:102:ASP:OD1	2.12	0.50
1:A:212:LEU:HA	1:A:217:PHE:CD2	2.47	0.50
1:A:242:MSE:O	1:A:245:ILE:HB	2.11	0.50
1:D:275:ILE:HG13	1:D:276:GLY:N	2.25	0.50
1:A:109:MSE:SE	1:A:309:PHE:CD1	3.13	0.50
1:B:65:GLU:HG2	1:B:84:ALA:HA	1.92	0.50
1:B:144:ILE:HG21	1:B:147:ILE:HG12	1.94	0.50
1:A:135:LEU:HD11	1:A:149:MSE:SE	2.62	0.50
1:C:287:VAL:HG11	1:C:289:PHE:CZ	2.46	0.50
1:D:75:TYR:CD2	1:D:153:ASP:HB2	2.47	0.50
1:D:97:GLN:O	1:D:98:LEU:HB3	2.12	0.50
1:B:239:TRP:HD1	1:B:274:VAL:HG21	1.75	0.50
1:D:149:MSE:HE2	1:D:151:GLU:HG3	1.92	0.50
1:D:261:ASN:HB3	2:D:518:HOH:O	2.11	0.50
1:B:51:MSE:HE3	1:B:51:MSE:H	1.76	0.50
1:C:215:LYS:N	1:C:216:PRO:CD	2.74	0.50
1:B:121:PRO:O	1:B:144:ILE:HD13	2.12	0.50
1:B:130:GLY:O	1:B:131:ASP:CB	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:238:LEU:O	1:C:242:MSE:HE3	2.11	0.50
1:B:169:ILE:CG2	1:B:170:GLY:N	2.74	0.50
1:D:88:LYS:H	1:D:100:GLU:CG	2.25	0.50
1:D:328:VAL:C	1:D:330:GLU:H	2.14	0.50
1:B:269:THR:HB	2:B:466:HOH:O	2.11	0.50
1:C:51:MSE:HG2	2:C:405:HOH:O	2.11	0.50
1:C:99:THR:HG22	1:C:101:ARG:N	2.27	0.50
1:C:109:MSE:CE	1:C:314:ILE:CG2	2.90	0.50
1:C:165:PRO:HG2	1:C:166:ASP:H	1.77	0.50
1:B:214:GLU:HB2	2:B:429:HOH:O	2.12	0.50
1:C:126:VAL:O	1:C:149:MSE:HA	2.12	0.50
1:A:279:LEU:HB3	1:A:289:PHE:CD2	2.45	0.50
1:B:278:MSE:SE	1:B:278:MSE:C	3.00	0.50
1:C:123:LYS:HE3	1:C:195:TYR:HE1	1.75	0.50
1:A:186:PHE:O	1:A:190:ALA:HB2	2.12	0.50
1:D:80:VAL:CG2	1:D:159:VAL:HG11	2.40	0.50
1:D:322:PRO:O	1:D:324:PHE:N	2.44	0.50
1:A:267:VAL:HG11	1:A:270:TYR:CE2	2.47	0.50
1:A:310:TYR:CD1	1:A:311:ASN:N	2.79	0.50
1:B:233:THR:HG22	1:B:278:MSE:HB2	1.93	0.50
1:A:76:GLN:OE1	1:A:92:LEU:HB3	2.10	0.50
1:A:109:MSE:HE1	1:A:310:TYR:CB	2.40	0.50
1:B:179:VAL:HG23	1:B:179:VAL:O	2.12	0.50
1:D:114:PRO:HB3	1:D:232:CYS:HB2	1.93	0.50
1:C:54:MSE:HE2	1:C:205:PRO:HD2	1.92	0.50
1:C:220:SER:HA	1:C:223:ARG:HG2	1.93	0.50
1:D:43:VAL:O	1:D:44:ILE:HG13	2.11	0.50
1:D:139:ALA:HB1	1:D:175:ARG:NH2	2.26	0.50
1:A:182:ASP:CG	1:A:183:GLY:H	2.15	0.50
1:A:252:CYS:SG	1:A:278:MSE:HG2	2.52	0.50
1:C:165:PRO:C	1:C:167:VAL:H	2.14	0.50
1:C:328:VAL:HG12	1:C:328:VAL:O	2.12	0.50
1:D:75:TYR:CD2	1:D:153:ASP:HB2	2.47	0.50
1:D:263:ALA:HB2	1:D:319:PHE:CE1	2.46	0.50
1:B:241:HIS:HB3	2:B:433:HOH:O	2.12	0.50
1:D:154:LYS:HG2	1:D:158:ASP:OD2	2.11	0.50
1:D:242:MSE:HE1	1:D:325:ALA:HB2	1.93	0.50
1:C:294:ASN:ND2	2:C:347:HOH:O	2.45	0.50
1:D:60:HIS:CE1	1:D:271:PRO:HA	2.46	0.50
1:B:51:MSE:CE	1:B:51:MSE:H	2.24	0.50
1:C:173:ASP:OD1	1:C:175:ARG:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:295:PRO:HG3	1:C:312:ALA:HB2	1.93	0.50
1:D:263:ALA:HB2	1:D:319:PHE:CE1	2.46	0.50
1:B:98:LEU:HD12	1:B:98:LEU:O	2.12	0.50
1:D:123:LYS:HE3	1:D:146:GLN:OE1	2.10	0.50
1:A:144:ILE:HB	1:A:175:ARG:NH1	2.26	0.50
1:A:219:GLN:OE1	1:A:255:ILE:HD12	2.11	0.50
1:C:118:ILE:C	1:C:118:ILE:HD12	2.32	0.50
1:C:226:ARG:CB	1:C:227:PRO:CD	2.90	0.50
1:C:235:ALA:HB2	1:C:278:MSE:HG2	1.94	0.50
1:C:310:TYR:HA	1:C:314:ILE:HG21	1.94	0.50
1:A:212:LEU:HA	1:A:217:PHE:CD2	2.47	0.50
1:C:225:LEU:HD11	1:C:231:VAL:HG22	1.94	0.50
1:D:54:MSE:HE1	1:D:204:ASP:CB	2.41	0.50
1:A:145:GLU:O	1:A:175:ARG:HG2	2.11	0.50
1:A:187:LEU:HG	1:A:220:SER:O	2.12	0.50
1:A:219:GLN:OE1	1:A:255:ILE:HG23	2.11	0.50
1:A:301:SER:C	1:A:303:SER:H	2.14	0.50
1:A:56:PRO:HG2	1:D:85:THR:HG21	1.94	0.50
1:B:164:PHE:HB3	1:B:167:VAL:CG2	2.42	0.50
1:A:113:LEU:HD23	1:A:315:HIS:ND1	2.26	0.50
1:B:154:LYS:HG2	1:B:158:ASP:OD2	2.12	0.50
1:B:243:ASP:HB2	2:B:433:HOH:O	2.11	0.50
1:C:104:CYS:SG	1:C:309:PHE:HB2	2.51	0.50
1:C:227:PRO:HB3	1:C:284:GLY:CA	2.42	0.50
1:C:292:PRO:HB3	1:C:315:HIS:NE2	2.26	0.50
1:D:93:ASP:N	2:D:354:HOH:O	2.45	0.50
1:A:86:TYR:HB3	1:A:99:THR:HG21	1.92	0.50
1:C:114:PRO:O	1:C:117:SER:HB2	2.12	0.50
1:A:68:LEU:HB2	1:A:80:VAL:HG12	1.94	0.50
1:A:229:GLY:O	1:A:281:SER:HA	2.11	0.50
1:B:124:VAL:HG13	1:B:197:ALA:HB3	1.94	0.50
1:C:238:LEU:HD21	1:C:262:TYR:CE2	2.47	0.50
1:C:321:LEU:HD22	1:C:329:ILE:HD12	1.93	0.50
1:D:131:ASP:CG	2:D:552:HOH:O	2.50	0.50
1:D:136:ARG:HG2	1:D:136:ARG:HH11	1.76	0.50
1:D:257:LYS:NZ	2:D:510:HOH:O	2.45	0.50
1:D:118:ILE:CD1	1:D:121:PRO:HB3	2.42	0.50
1:D:128:GLY:O	1:D:129:GLY:C	2.50	0.50
1:C:233:THR:O	1:C:277:PHE:HA	2.11	0.50
1:D:206:ILE:O	1:D:206:ILE:HG13	2.12	0.50
1:A:311:ASN:O	1:A:314:ILE:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:226:ARG:HG2	1:B:227:PRO:N	2.24	0.50
1:C:165:PRO:C	1:C:167:VAL:N	2.65	0.50
1:C:292:PRO:HB3	1:C:315:HIS:CE1	2.47	0.50
1:A:209:ALA:HB1	1:A:212:LEU:CD1	2.42	0.50
1:D:110:ILE:HD13	1:D:201:ASP:HA	1.93	0.50
1:A:261:ASN:HA	2:A:386:HOH:O	2.12	0.50
1:B:106:TYR:CD1	1:B:275:ILE:HG21	2.47	0.50
1:C:49:SER:HB2	1:C:51:MSE:HE1	1.93	0.50
1:D:310:TYR:CD1	1:D:310:TYR:C	2.85	0.50
1:B:48:PHE:O	1:B:61:SER:HA	2.12	0.50
1:B:205:PRO:HB3	1:B:213:PHE:CE1	2.47	0.50
1:D:104:CYS:O	1:D:108:GLU:HG3	2.12	0.50
1:D:111:THR:HG22	1:D:134:VAL:HG13	1.92	0.50
1:A:68:LEU:HB2	1:A:80:VAL:HG12	1.94	0.50
1:A:179:VAL:HG11	1:A:186:PHE:HE2	1.76	0.50
1:D:151:GLU:OE1	1:D:152:ILE:N	2.44	0.50
1:D:113:LEU:N	1:D:114:PRO:CD	2.75	0.50
1:D:141:HIS:NE2	1:D:296:ILE:HD11	2.27	0.50
1:A:283:GLU:HG3	2:A:574:HOH:O	2.10	0.50
1:D:159:VAL:HG13	1:D:163:PHE:HD2	1.76	0.50
1:A:171:TYR:CE1	1:A:178:LEU:HD22	2.47	0.50
1:C:221:VAL:HG13	1:C:231:VAL:HG21	1.93	0.50
1:C:262:TYR:HD2	1:C:321:LEU:HD11	1.77	0.50
1:A:80:VAL:HG21	1:A:159:VAL:HG12	1.94	0.50
1:B:125:LEU:HB2	1:B:195:TYR:CE1	2.47	0.50
1:C:257:LYS:HB3	1:C:283:GLU:HB3	1.93	0.50
1:A:46:GLY:HA3	1:A:63:LYS:HZ1	1.76	0.50
1:C:293:LEU:HD23	1:C:293:LEU:O	2.12	0.50
1:D:113:LEU:N	1:D:114:PRO:HD2	2.27	0.50
1:B:164:PHE:HB3	1:B:167:VAL:CG2	2.42	0.49
1:B:196:ASP:HA	1:B:226:ARG:NH1	2.24	0.49
1:D:76:GLN:HB2	1:D:93:ASP:OD1	2.12	0.49
1:A:232:CYS:HA	1:A:278:MSE:O	2.11	0.49
1:B:265:THR:HG22	1:B:277:PHE:HE2	1.77	0.49
1:B:238:LEU:O	1:B:242:MSE:HE2	2.12	0.49
1:B:271:PRO:HB3	2:B:448:HOH:O	2.12	0.49
1:C:303:SER:C	1:C:305:GLY:H	2.15	0.49
1:D:109:MSE:HE1	1:D:310:TYR:CB	2.42	0.49
1:A:51:MSE:O	1:A:52:SER:HB2	2.11	0.49
1:A:86:TYR:CE2	1:A:101:ARG:HD3	2.47	0.49
1:B:149:MSE:O	1:B:149:MSE:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:218:PHE:O	1:D:255:ILE:HG21	2.12	0.49
1:B:275:ILE:CG2	1:B:275:ILE:O	2.60	0.49
1:C:73:SER:HB2	2:C:340:HOH:O	2.11	0.49
1:C:155:MSE:O	1:C:159:VAL:HG23	2.12	0.49
1:C:324:PHE:O	1:C:327:LYS:HG2	2.12	0.49
1:D:90:LEU:HD21	1:D:92:LEU:HD21	1.93	0.49
1:A:146:GLN:HG3	1:A:175:ARG:O	2.12	0.49
1:C:161:LYS:HG3	1:C:168:ALA:CB	2.39	0.49
1:C:327:LYS:HG3	1:C:328:VAL:H	1.77	0.49
1:D:182:ASP:O	1:D:185:ALA:HB3	2.12	0.49
1:D:200:VAL:HB	1:D:233:THR:HG23	1.92	0.49
1:A:66:LYS:O	1:A:81:PHE:HB2	2.12	0.49
1:A:98:LEU:HB2	1:A:103:GLU:HB3	1.94	0.49
1:A:267:VAL:HG11	1:A:270:TYR:CE2	2.47	0.49
1:B:111:THR:CG2	1:B:134:VAL:HG13	2.42	0.49
1:B:123:LYS:HZ3	1:B:146:GLN:HE22	1.60	0.49
1:B:127:ILE:HD11	1:B:187:LEU:HD22	1.94	0.49
1:C:106:TYR:CE1	1:C:275:ILE:HG21	2.47	0.49
1:C:267:VAL:HB	1:C:270:TYR:HD2	1.76	0.49
1:B:89:VAL:HG13	1:B:99:THR:HG22	1.93	0.49
1:A:145:GLU:O	1:A:175:ARG:HG2	2.12	0.49
1:C:230:VAL:HA	1:C:280:CYS:O	2.12	0.49
1:D:238:LEU:HD21	1:D:329:ILE:HD11	1.95	0.49
1:A:307:LEU:HD12	1:A:307:LEU:N	2.26	0.49
1:A:123:LYS:HG2	1:A:146:GLN:HB3	1.93	0.49
1:A:129:GLY:HA2	1:A:201:ASP:OD2	2.12	0.49
1:C:107:GLN:HE22	1:C:136:ARG:HH21	1.61	0.49
1:C:242:MSE:O	1:C:246:GLU:HG3	2.12	0.49
1:C:173:ASP:HB3	1:C:176:VAL:HG23	1.94	0.49
1:C:239:TRP:C	1:C:240:LEU:HD23	2.33	0.49
1:A:182:ASP:CG	1:A:183:GLY:N	2.65	0.49
1:A:244:ILE:O	1:A:248:ILE:HG13	2.12	0.49
1:B:126:VAL:O	1:B:127:ILE:C	2.50	0.49
1:C:103:GLU:HB2	1:C:107:GLN:NE2	2.28	0.49
1:A:80:VAL:HG21	1:A:159:VAL:CB	2.42	0.49
1:A:125:LEU:HD23	1:A:198:VAL:CG1	2.42	0.49
1:B:123:LYS:HE3	1:B:146:GLN:NE2	2.27	0.49
1:B:184:VAL:HA	1:B:217:PHE:CE1	2.46	0.49
1:C:54:MSE:HE1	1:C:244:ILE:HD11	1.94	0.49
1:C:278:MSE:C	1:C:278:MSE:SE	3.01	0.49
1:D:73:SER:HA	1:D:155:MSE:HE3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:269:THR:HG22	1:D:269:THR:O	2.12	0.49
1:C:257:LYS:HE2	2:C:367:HOH:O	2.11	0.49
1:D:195:TYR:O	1:D:225:LEU:HA	2.12	0.49
1:C:121:PRO:O	1:C:144:ILE:HD13	2.12	0.49
1:A:159:VAL:HG13	1:A:163:PHE:CE2	2.47	0.49
1:B:259:SER:O	1:B:280:CYS:HA	2.12	0.49
1:C:66:LYS:HD3	2:C:447:HOH:O	2.12	0.49
1:D:70:GLN:HE21	1:D:79:ILE:HD11	1.77	0.49
1:A:65:GLU:HB3	1:A:82:GLN:O	2.12	0.49
1:B:52:SER:C	1:B:54:MSE:H	2.16	0.49
1:B:187:LEU:HB3	1:B:220:SER:OG	2.13	0.49
1:C:182:ASP:OD1	1:C:184:VAL:HG22	2.13	0.49
1:B:324:PHE:HD2	1:C:308:LYS:O	1.95	0.49
1:C:85:THR:O	1:C:101:ARG:HD2	2.11	0.49
1:A:108:GLU:CG	1:A:307:LEU:HD22	2.42	0.49
1:A:132:GLY:CA	1:A:135:LEU:HD13	2.43	0.49
1:C:328:VAL:C	1:C:330:GLU:H	2.16	0.49
1:B:134:VAL:O	1:B:138:VAL:HG23	2.11	0.49
1:C:164:PHE:HB3	1:C:167:VAL:HB	1.93	0.49
1:B:214:GLU:HB2	2:B:429:HOH:O	2.12	0.49
1:C:125:LEU:HB2	1:C:195:TYR:CE1	2.47	0.49
1:B:109:MSE:HG2	1:B:265:THR:HB	1.94	0.49
1:C:76:GLN:HG3	1:C:92:LEU:HD22	1.95	0.49
1:D:77:ASP:O	1:D:92:LEU:HA	2.12	0.49
1:D:211:GLU:O	1:D:211:GLU:HG2	2.12	0.49
1:A:151:GLU:O	1:A:180:ILE:HA	2.12	0.49
1:B:97:GLN:O	1:B:98:LEU:HB3	2.11	0.49
1:C:151:GLU:O	1:C:180:ILE:HA	2.13	0.49
1:D:238:LEU:HD21	1:D:262:TYR:CE1	2.47	0.49
1:A:241:HIS:HB3	1:A:244:ILE:HB	1.94	0.49
1:C:109:MSE:HE1	1:C:314:ILE:HG22	1.94	0.49
1:A:267:VAL:HG11	1:A:270:TYR:CE2	2.48	0.49
1:C:223:ARG:HG3	1:C:224:ALA:N	2.28	0.49
1:D:257:LYS:HG3	2:D:414:HOH:O	2.12	0.49
1:A:242:MSE:SE	1:A:245:ILE:HB	2.63	0.49
1:D:50:GLU:OE2	1:D:96:ILE:HB	2.12	0.49
1:B:123:LYS:HE3	1:B:146:GLN:NE2	2.28	0.49
1:A:141:HIS:O	1:A:143:SER:N	2.41	0.49
1:C:296:ILE:HB	1:C:307:LEU:HD11	1.95	0.49
1:D:167:VAL:C	1:D:169:ILE:H	2.15	0.49
1:A:264:TRP:HA	1:A:275:ILE:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:210:LYS:HD3	1:B:210:LYS:C	2.33	0.49
1:D:164:PHE:O	1:D:167:VAL:HG22	2.13	0.49
1:A:242:MSE:HA	1:A:242:MSE:CE	2.31	0.49
1:C:237:SER:H	1:C:241:HIS:HD2	1.60	0.49
1:B:113:LEU:HA	1:B:315:HIS:HE1	1.78	0.49
1:D:149:MSE:HE3	1:D:150:CYS:N	2.27	0.49
1:C:301:SER:CB	1:C:304:ASN:HD22	2.21	0.49
1:D:164:PHE:N	1:D:165:PRO:HD3	2.28	0.49
1:A:44:ILE:N	1:A:44:ILE:CD1	2.76	0.49
1:B:134:VAL:HG12	1:B:138:VAL:CG2	2.39	0.49
1:B:144:ILE:HG22	1:B:175:ARG:HD2	1.95	0.49
1:D:114:PRO:HG2	1:D:115:LEU:HD12	1.94	0.49
1:B:326:LYS:C	1:B:328:VAL:H	2.16	0.49
1:C:104:CYS:SG	1:C:105:ALA:N	2.86	0.49
1:C:222:ALA:HA	1:C:225:LEU:HB2	1.95	0.49
1:D:250:SER:O	1:D:254:GLU:HG3	2.12	0.49
1:A:79:ILE:HB	1:A:91:VAL:HB	1.94	0.49
1:B:77:ASP:O	1:B:92:LEU:HA	2.12	0.49
1:C:193:GLY:HA2	1:C:225:LEU:O	2.13	0.49
1:B:44:ILE:O	1:B:47:TRP:HB2	2.13	0.49
1:B:108:GLU:HG2	1:B:307:LEU:HD13	1.94	0.49
1:D:41:SER:O	1:D:42:THR:HB	2.13	0.49
1:D:192:GLU:HB2	1:D:223:ARG:NH1	2.28	0.49
1:D:269:THR:HG22	1:D:269:THR:O	2.12	0.49
1:D:311:ASN:O	1:D:313:GLU:N	2.46	0.49
1:A:129:GLY:HA2	1:A:201:ASP:OD2	2.13	0.49
1:D:257:LYS:HG3	2:D:414:HOH:O	2.12	0.49
1:C:296:ILE:HG22	2:C:344:HOH:O	2.11	0.49
1:B:269:THR:HB	2:B:460:HOH:O	2.12	0.49
1:C:152:ILE:HD12	1:C:182:ASP:HB2	1.94	0.49
1:C:180:ILE:HD12	1:C:180:ILE:N	2.27	0.49
1:C:187:LEU:HA	1:C:190:ALA:HB2	1.93	0.49
1:A:91:VAL:O	1:A:92:LEU:HD23	2.13	0.49
1:B:113:LEU:HB3	1:B:114:PRO:HD3	1.94	0.49
1:C:51:MSE:SE	1:C:51:MSE:N	2.94	0.49
1:C:98:LEU:HD22	1:C:131:ASP:OD2	2.11	0.49
1:B:283:GLU:HB3	2:B:441:HOH:O	2.12	0.49
1:C:97:GLN:O	1:C:98:LEU:HB3	2.13	0.49
1:D:215:LYS:HD2	1:D:255:ILE:HD11	1.94	0.49
1:C:131:ASP:HB2	1:C:167:VAL:HG11	1.94	0.49
1:C:293:LEU:HD23	1:C:293:LEU:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:52:SER:HB2	1:B:53:PRO:CD	2.42	0.49
1:C:197:ALA:HA	1:C:230:VAL:O	2.13	0.49
1:D:327:LYS:O	1:D:330:GLU:HG3	2.12	0.49
1:A:131:ASP:O	1:A:167:VAL:HG12	2.12	0.49
1:A:301:SER:O	1:A:303:SER:N	2.46	0.49
1:A:307:LEU:HD12	1:A:307:LEU:N	2.27	0.49
1:B:111:THR:HG23	1:B:138:VAL:HG22	1.94	0.49
1:C:54:MSE:HE2	1:C:204:ASP:CB	2.33	0.49
1:C:129:GLY:N	1:C:151:GLU:HB2	2.27	0.49
1:C:151:GLU:O	1:C:180:ILE:HA	2.12	0.49
1:C:327:LYS:HG3	1:C:328:VAL:N	2.27	0.49
1:A:127:ILE:HD12	1:A:200:VAL:CG2	2.43	0.49
1:A:159:VAL:O	1:A:163:PHE:HD2	1.96	0.49
1:B:128:GLY:O	1:B:130:GLY:N	2.46	0.49
1:B:153:ASP:OD2	1:B:155:MSE:HB2	2.11	0.49
1:B:98:LEU:HD21	1:B:131:ASP:OD1	2.13	0.49
1:B:160:SER:HA	1:B:164:PHE:HD2	1.76	0.49
1:A:86:TYR:CD2	1:A:101:ARG:HD3	2.47	0.49
1:A:187:LEU:HD21	1:A:221:VAL:HG22	1.94	0.49
1:B:293:LEU:HD23	1:B:294:ASN:N	2.28	0.49
1:A:310:TYR:CD1	1:A:310:TYR:C	2.86	0.49
1:C:104:CYS:HB3	2:C:380:HOH:O	2.13	0.49
1:C:210:LYS:O	1:C:214:GLU:HG2	2.12	0.49
1:D:185:ALA:O	1:D:186:PHE:C	2.50	0.49
1:A:218:PHE:HB2	1:A:255:ILE:HG21	1.95	0.49
1:B:317:ALA:HB2	1:C:320:CYS:SG	2.53	0.49
1:D:129:GLY:O	1:D:156:VAL:HG11	2.12	0.49
1:A:293:LEU:HD23	1:A:293:LEU:O	2.13	0.49
1:C:68:LEU:HD12	1:C:80:VAL:HG12	1.95	0.49
1:C:76:GLN:HG3	1:C:92:LEU:HD22	1.94	0.49
1:A:182:ASP:OD2	1:A:184:VAL:HG22	2.13	0.49
1:A:238:LEU:CD2	1:A:242:MSE:HE1	2.42	0.49
1:B:152:ILE:HG12	1:B:152:ILE:O	2.13	0.49
1:A:50:GLU:O	1:A:55:TRP:NE1	2.40	0.49
1:A:292:PRO:HB3	1:A:315:HIS:CE1	2.47	0.49
1:C:147:ILE:HD12	1:C:175:ARG:HB2	1.95	0.49
1:D:97:GLN:HA	1:D:97:GLN:NE2	2.28	0.49
1:B:151:GLU:HG3	1:B:152:ILE:N	2.27	0.49
1:A:43:VAL:HG13	1:D:43:VAL:HA	1.94	0.49
1:B:54:MSE:HB2	1:B:55:TRP:CE3	2.48	0.49
1:B:164:PHE:HB3	1:B:167:VAL:CG2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:GLU:HB3	1:B:216:PRO:HD2	1.95	0.49
1:B:215:LYS:HE2	1:B:251:ASN:OD1	2.13	0.49
1:C:256:PHE:CD1	1:C:282:THR:HG22	2.48	0.49
1:C:263:ALA:HB2	1:C:319:PHE:CE1	2.48	0.49
1:C:297:ASP:OD1	1:C:298:GLU:N	2.33	0.49
1:A:92:LEU:O	1:A:95:VAL:N	2.43	0.49
1:B:210:LYS:HD3	1:B:210:LYS:C	2.32	0.49
1:C:107:GLN:HE22	1:C:136:ARG:NH2	2.11	0.49
1:B:109:MSE:HE3	1:B:309:PHE:CD2	2.46	0.49
1:C:296:ILE:HG22	1:C:297:ASP:N	2.28	0.49
1:B:271:PRO:HG2	2:B:348:HOH:O	2.12	0.49
1:C:88:LYS:HD3	1:C:163:PHE:O	2.13	0.49
1:D:279:LEU:HD12	1:D:289:PHE:CE1	2.48	0.49
1:A:184:VAL:HG12	1:A:217:PHE:CD1	2.48	0.49
1:B:326:LYS:HG2	1:B:330:GLU:OE1	2.13	0.49
1:A:90:LEU:HB2	1:A:164:PHE:CZ	2.47	0.49
1:B:127:ILE:HD11	1:B:187:LEU:HD22	1.94	0.49
1:C:230:VAL:HA	1:C:280:CYS:O	2.12	0.49
1:B:66:LYS:HE3	1:B:68:LEU:HD23	1.95	0.49
1:D:106:TYR:O	1:D:109:MSE:CB	2.58	0.49
1:D:138:VAL:C	1:D:140:ARG:H	2.15	0.49
1:D:200:VAL:CB	1:D:233:THR:HG23	2.34	0.49
1:A:287:VAL:HA	2:A:379:HOH:O	2.12	0.49
1:B:225:LEU:HD22	1:B:229:GLY:CA	2.34	0.49
1:D:124:VAL:HG12	1:D:125:LEU:N	2.27	0.49
1:A:244:ILE:O	1:A:248:ILE:HG13	2.13	0.48
1:C:128:GLY:C	1:C:149:MSE:SE	3.01	0.48
1:D:184:VAL:HG21	1:D:211:GLU:OE1	2.13	0.48
1:B:217:PHE:O	1:B:220:SER:HB3	2.13	0.48
1:D:313:GLU:CD	1:D:313:GLU:H	2.16	0.48
1:A:129:GLY:C	1:A:131:ASP:H	2.17	0.48
1:A:125:LEU:HD13	1:A:195:TYR:CZ	2.47	0.48
1:A:225:LEU:HD11	1:A:231:VAL:HB	1.94	0.48
1:A:129:GLY:HA3	1:A:149:MSE:HE1	1.94	0.48
1:A:212:LEU:HA	1:A:217:PHE:CD2	2.48	0.48
1:B:113:LEU:HD11	1:B:319:PHE:CZ	2.48	0.48
1:C:198:VAL:HG21	1:C:221:VAL:HG13	1.94	0.48
1:A:46:GLY:O	1:A:63:LYS:HD2	2.13	0.48
1:A:211:GLU:HA	1:A:214:GLU:CG	2.43	0.48
1:A:124:VAL:HG23	1:A:144:ILE:HD12	1.95	0.48
1:C:322:PRO:O	1:C:323:SER:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:230:VAL:O	1:D:231:VAL:HG23	2.12	0.48
1:B:49:SER:HB2	1:B:51:MSE:HE2	1.94	0.48
1:B:66:LYS:HD3	1:B:67:VAL:N	2.28	0.48
1:B:162:GLN:NE2	2:B:453:HOH:O	2.45	0.48
1:C:135:LEU:HD13	1:C:149:MSE:HE2	1.94	0.48
1:D:54:MSE:HB2	1:D:55:TRP:CE3	2.48	0.48
1:D:269:THR:HG22	1:D:269:THR:O	2.13	0.48
1:A:232:CYS:HA	1:A:278:MSE:O	2.13	0.48
1:B:242:MSE:HE3	1:B:324:PHE:HE1	1.78	0.48
1:C:155:MSE:O	1:C:159:VAL:HG23	2.13	0.48
1:D:54:MSE:HE1	1:D:204:ASP:HB3	1.95	0.48
1:B:248:ILE:HG22	1:B:249:VAL:N	2.28	0.48
1:A:199:ILE:HA	1:A:232:CYS:O	2.14	0.48
1:C:296:ILE:CG2	2:C:344:HOH:O	2.61	0.48
1:A:127:ILE:HG22	1:A:150:CYS:HB3	1.94	0.48
1:B:109:MSE:HE2	1:B:113:LEU:HG	1.95	0.48
1:C:112:HIS:O	1:C:116:CYS:HB2	2.12	0.48
1:C:159:VAL:HG22	1:D:45:PRO:CG	2.43	0.48
1:A:89:VAL:HG13	1:A:96:ILE:HG23	1.95	0.48
1:B:246:GLU:HB2	1:B:328:VAL:CG1	2.43	0.48
1:C:98:LEU:HD12	1:C:103:GLU:HB2	1.95	0.48
1:A:131:ASP:HA	1:A:160:SER:HB3	1.95	0.48
1:B:179:VAL:HG21	1:B:186:PHE:CE2	2.48	0.48
1:C:301:SER:HB3	1:C:304:ASN:ND2	2.05	0.48
1:D:111:THR:O	1:D:115:LEU:HB2	2.11	0.48
1:A:271:PRO:O	1:A:272:SER:CB	2.60	0.48
1:A:276:GLY:O	1:A:277:PHE:CG	2.66	0.48
1:B:97:GLN:O	1:B:98:LEU:HB3	2.13	0.48
1:B:232:CYS:HA	1:B:278:MSE:O	2.13	0.48
1:D:99:THR:OG1	1:D:102:ASP:OD1	2.28	0.48
1:B:267:VAL:HG11	1:B:270:TYR:CE2	2.48	0.48
1:D:290:LYS:HD2	1:D:291:HIS:HE1	1.76	0.48
1:A:76:GLN:OE1	1:A:92:LEU:HB3	2.13	0.48
1:D:259:SER:HB3	1:D:281:SER:OG	2.13	0.48
1:A:324:PHE:O	1:A:327:LYS:HG2	2.12	0.48
1:C:65:GLU:O	1:C:66:LYS:HE2	2.13	0.48
1:D:64:VAL:HG22	1:D:81:PHE:CE1	2.48	0.48
1:D:233:THR:HG22	1:D:234:GLN:N	2.28	0.48
1:D:252:CYS:SG	1:D:278:MSE:SE	3.21	0.48
1:A:238:LEU:HD11	1:A:264:TRP:CD2	2.48	0.48
1:B:225:LEU:HB3	1:B:229:GLY:HA3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:86:TYR:CD2	1:C:101:ARG:HD3	2.48	0.48
1:D:242:MSE:HE1	1:D:329:ILE:HD11	1.94	0.48
1:A:245:ILE:O	1:A:249:VAL:HG23	2.12	0.48
1:B:44:ILE:HD13	1:C:51:MSE:HE3	1.95	0.48
1:B:228:GLY:HA3	1:B:285:PRO:HD2	1.95	0.48
1:A:124:VAL:HG23	1:A:144:ILE:HD12	1.95	0.48
1:A:147:ILE:HB	1:A:176:VAL:HA	1.94	0.48
1:B:90:LEU:HB3	1:B:98:LEU:HG	1.94	0.48
1:B:97:GLN:O	1:B:98:LEU:HB3	2.13	0.48
1:B:271:PRO:HG2	2:B:348:HOH:O	2.13	0.48
1:D:111:THR:HG22	1:D:134:VAL:HG13	1.95	0.48
1:A:170:GLY:O	1:A:172:GLU:N	2.46	0.48
1:A:220:SER:O	1:A:223:ARG:HG2	2.13	0.48
1:C:107:GLN:NE2	1:C:136:ARG:HH21	2.10	0.48
1:B:55:TRP:CE3	1:B:271:PRO:HG3	2.48	0.48
1:C:230:VAL:HA	1:C:280:CYS:O	2.13	0.48
1:A:258:GLY:HA3	1:A:281:SER:OG	2.13	0.48
1:A:214:GLU:HB3	1:A:216:PRO:HD2	1.95	0.48
1:C:86:TYR:CD2	1:C:99:THR:HG21	2.42	0.48
1:C:286:ASP:HA	2:C:399:HOH:O	2.12	0.48
1:C:296:ILE:O	1:C:297:ASP:C	2.51	0.48
1:A:125:LEU:HD13	1:A:186:PHE:CE1	2.48	0.48
1:C:147:ILE:O	1:C:177:ASN:N	2.45	0.48
1:A:90:LEU:HB3	1:A:98:LEU:HG	1.95	0.48
1:A:164:PHE:HB3	1:A:167:VAL:HB	1.95	0.48
1:A:249:VAL:O	1:A:253:ARG:HG2	2.14	0.48
1:D:217:PHE:O	1:D:220:SER:HB3	2.13	0.48
1:B:86:TYR:CD2	1:B:101:ARG:HB3	2.48	0.48
1:A:198:VAL:O	1:A:231:VAL:HA	2.14	0.48
1:B:260:VAL:HA	1:B:280:CYS:SG	2.53	0.48
1:C:129:GLY:HA2	1:C:149:MSE:HE3	1.95	0.48
1:C:248:ILE:CG2	1:C:278:MSE:HG3	2.43	0.48
1:B:198:VAL:HG23	1:B:225:LEU:HD21	1.94	0.48
1:C:165:PRO:C	1:C:167:VAL:H	2.16	0.48
1:C:293:LEU:HD23	1:C:293:LEU:O	2.14	0.48
1:A:159:VAL:HG13	1:A:163:PHE:HE2	1.79	0.48
1:C:137:GLU:O	1:C:140:ARG:HB3	2.13	0.48
1:A:88:LYS:HB2	1:A:100:GLU:HG3	1.95	0.48
1:A:253:ARG:HH22	1:A:330:GLU:HB2	1.77	0.48
1:C:293:LEU:HD23	1:C:293:LEU:O	2.13	0.48
1:D:245:ILE:O	1:D:249:VAL:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:HIS:ND1	1:B:141:HIS:HE1	2.11	0.48
1:A:66:LYS:HG2	1:A:82:GLN:CB	2.43	0.48
1:A:131:ASP:O	1:A:167:VAL:HG12	2.13	0.48
1:C:193:GLY:HA2	1:C:225:LEU:O	2.13	0.48
1:C:235:ALA:HB3	1:C:277:PHE:N	2.28	0.48
1:A:301:SER:O	1:A:303:SER:N	2.46	0.48
1:B:150:CYS:O	1:B:151:GLU:CB	2.61	0.48
1:D:204:ASP:HB3	1:D:205:PRO:HD2	1.96	0.48
1:A:54:MSE:HE2	1:A:54:MSE:HA	1.94	0.48
1:C:86:TYR:CE2	1:C:101:ARG:HD3	2.48	0.48
1:D:92:LEU:HB2	1:D:97:GLN:NE2	2.28	0.48
1:D:112:HIS:NE2	1:D:137:GLU:OE1	2.47	0.48
1:D:141:HIS:CE1	1:D:296:ILE:HD12	2.49	0.48
1:D:183:GLY:O	1:D:187:LEU:HD23	2.14	0.48
1:D:60:HIS:CG	2:D:364:HOH:O	2.66	0.48
1:D:68:LEU:HD23	1:D:163:PHE:CD1	2.49	0.48
1:D:139:ALA:C	1:D:141:HIS:H	2.15	0.48
1:A:263:ALA:HB2	1:A:319:PHE:CE1	2.49	0.48
1:B:164:PHE:O	1:B:167:VAL:HG23	2.14	0.48
1:C:238:LEU:HD11	1:C:321:LEU:HD22	1.95	0.48
1:D:226:ARG:HG2	1:D:227:PRO:N	2.23	0.48
1:A:149:MSE:HG3	1:A:178:LEU:HD13	1.95	0.48
1:A:196:ASP:HA	1:A:226:ARG:HH21	1.79	0.48
1:B:163:PHE:C	1:B:165:PRO:HD3	2.34	0.48
1:A:243:ASP:HA	1:A:246:GLU:OE1	2.13	0.48
1:D:225:LEU:HD11	1:D:231:VAL:HG22	1.94	0.48
1:A:197:ALA:HA	1:A:230:VAL:O	2.13	0.48
1:A:241:HIS:HB3	2:A:429:HOH:O	2.13	0.48
1:B:115:LEU:HB3	1:B:141:HIS:NE2	2.28	0.48
1:C:196:ASP:OD1	1:C:226:ARG:HD3	2.13	0.48
1:A:121:PRO:HA	2:A:385:HOH:O	2.13	0.48
1:B:228:GLY:HA3	1:B:285:PRO:HD2	1.95	0.48
1:D:310:TYR:CE2	1:D:315:HIS:HB2	2.48	0.48
1:A:214:GLU:HB3	1:A:216:PRO:HD2	1.95	0.48
1:B:241:HIS:HB3	1:B:244:ILE:HD12	1.94	0.48
1:D:60:HIS:CD2	2:D:362:HOH:O	2.66	0.48
1:A:72:LYS:H	1:C:51:MSE:SE	2.46	0.48
1:A:242:MSE:O	1:A:245:ILE:HB	2.13	0.48
1:C:53:PRO:O	1:C:56:PRO:HD3	2.14	0.48
1:C:65:GLU:OE1	1:C:65:GLU:HA	2.12	0.48
1:D:157:VAL:O	1:D:161:LYS:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:PRO:HB2	2:B:344:HOH:O	2.14	0.48
1:B:114:PRO:HB3	1:B:279:LEU:HD12	1.96	0.48
1:C:99:THR:HG22	1:C:101:ARG:N	2.27	0.48
1:C:165:PRO:C	1:C:167:VAL:H	2.17	0.48
1:C:225:LEU:HD11	1:C:231:VAL:CG2	2.37	0.48
1:D:114:PRO:HG2	1:D:115:LEU:H	1.79	0.48
1:D:128:GLY:N	1:D:149:MSE:HE1	2.29	0.48
1:A:90:LEU:HB3	1:A:98:LEU:HG	1.96	0.48
1:D:171:TYR:C	1:D:173:ASP:H	2.16	0.48
1:C:161:LYS:HA	1:C:168:ALA:HB1	1.95	0.48
1:D:99:THR:HG23	1:D:269:THR:HG21	1.95	0.48
1:B:45:PRO:HG3	1:C:43:VAL:HG21	1.95	0.48
1:B:150:CYS:SG	1:B:183:GLY:HA2	2.53	0.48
1:B:236:GLU:HB3	1:B:241:HIS:ND1	2.28	0.48
1:A:111:THR:OG1	1:A:134:VAL:HG13	2.14	0.48
1:B:278:MSE:SE	1:B:280:CYS:SG	3.22	0.48
1:D:54:MSE:HE3	1:D:54:MSE:HB3	1.82	0.48
1:D:198:VAL:O	1:D:231:VAL:HG22	2.13	0.48
1:A:311:ASN:O	1:A:314:ILE:N	2.47	0.48
1:B:109:MSE:HE1	1:B:318:ALA:HB2	1.96	0.48
1:C:47:TRP:CZ2	1:C:63:LYS:HB2	2.49	0.48
1:C:51:MSE:O	1:C:52:SER:HB2	2.13	0.48
1:C:110:ILE:HG12	1:C:199:ILE:HG23	1.96	0.48
1:B:193:GLY:HA2	1:B:226:ARG:HA	1.95	0.48
1:C:154:LYS:HB2	1:C:180:ILE:HD13	1.94	0.48
1:C:225:LEU:HD13	1:C:282:THR:HG23	1.96	0.48
1:C:236:GLU:HB2	1:C:245:ILE:HD11	1.96	0.48
1:A:41:SER:HG	1:D:42:THR:HG21	1.76	0.48
1:A:79:ILE:HD12	2:A:449:HOH:O	2.13	0.48
1:A:244:ILE:O	1:A:248:ILE:HG13	2.13	0.48
1:B:213:PHE:O	1:B:251:ASN:ND2	2.47	0.48
1:B:134:VAL:O	1:B:138:VAL:HG23	2.13	0.48
1:B:236:GLU:HB3	1:B:241:HIS:ND1	2.29	0.48
1:D:98:LEU:HD12	1:D:98:LEU:O	2.13	0.48
1:B:45:PRO:HB2	2:B:344:HOH:O	2.13	0.48
1:B:195:TYR:HB2	1:B:224:ALA:O	2.14	0.48
1:A:108:GLU:HB2	1:A:109:MSE:CE	2.39	0.48
1:C:109:MSE:CE	1:C:314:ILE:HG23	2.40	0.48
1:C:173:ASP:OD1	1:C:175:ARG:HB2	2.14	0.48
1:D:112:HIS:O	1:D:113:LEU:C	2.51	0.48
1:B:163:PHE:O	1:B:165:PRO:HD3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:VAL:HG12	1:A:161:LYS:HE3	1.96	0.48
1:A:240:LEU:HG	1:A:272:SER:HB3	1.95	0.48
1:C:287:VAL:HG11	1:C:289:PHE:CE1	2.49	0.48
1:D:149:MSE:HG2	1:D:178:LEU:HD13	1.94	0.48
1:D:231:VAL:HG21	1:D:256:PHE:CZ	2.48	0.48
1:D:252:CYS:CB	1:D:278:MSE:HE3	2.44	0.48
1:D:257:LYS:HG2	1:D:283:GLU:OE1	2.12	0.48
1:B:205:PRO:HB3	1:B:213:PHE:CD1	2.49	0.48
1:C:182:ASP:OD2	1:C:184:VAL:HG22	2.13	0.48
1:A:50:GLU:CD	1:A:96:ILE:HG13	2.34	0.48
1:A:104:CYS:O	1:A:108:GLU:HG3	2.13	0.48
1:A:270:TYR:HB3	2:A:380:HOH:O	2.12	0.48
1:B:205:PRO:HB2	1:B:210:LYS:HG2	1.95	0.48
1:C:321:LEU:HD12	1:C:321:LEU:N	2.26	0.48
1:A:76:GLN:HG3	1:A:78:VAL:HG22	1.95	0.48
1:B:78:VAL:HA	1:B:92:LEU:HD23	1.95	0.48
1:B:196:ASP:OD1	1:B:226:ARG:HD3	2.14	0.48
1:D:142:ALA:HB2	2:D:376:HOH:O	2.12	0.48
1:A:239:TRP:CD2	1:D:268:PRO:HG2	2.49	0.48
1:B:257:LYS:CB	1:B:283:GLU:HB2	2.37	0.48
1:D:108:GLU:OE1	1:D:310:TYR:N	2.47	0.48
1:D:167:VAL:C	1:D:169:ILE:H	2.16	0.48
1:B:127:ILE:HB	1:B:200:VAL:HG22	1.96	0.48
1:C:308:LYS:NZ	2:C:372:HOH:O	2.47	0.48
1:A:132:GLY:O	1:A:135:LEU:HD13	2.14	0.48
1:B:192:GLU:HB2	1:B:223:ARG:NH1	2.28	0.48
1:C:234:GLN:OE1	1:C:236:GLU:N	2.44	0.48
1:B:80:VAL:HG21	1:B:159:VAL:CG1	2.44	0.48
1:C:236:GLU:HB2	1:C:245:ILE:CD1	2.44	0.48
1:C:238:LEU:HD11	1:C:321:LEU:HD22	1.94	0.48
1:A:98:LEU:HD12	1:A:98:LEU:C	2.34	0.48
1:A:159:VAL:HG13	1:A:163:PHE:CE2	2.48	0.48
1:A:226:ARG:HD2	1:A:227:PRO:O	2.13	0.48
1:A:231:VAL:CG1	1:A:280:CYS:HB2	2.43	0.48
1:D:279:LEU:O	1:D:289:PHE:CE2	2.67	0.48
1:A:228:GLY:HA3	1:A:285:PRO:HD2	1.96	0.48
1:B:162:GLN:OE1	2:B:453:HOH:O	2.20	0.48
1:B:163:PHE:O	1:B:165:PRO:HD3	2.13	0.48
1:B:234:GLN:O	1:B:234:GLN:NE2	2.45	0.48
1:C:98:LEU:HD23	1:C:131:ASP:OD2	2.14	0.48
1:D:228:GLY:HA3	1:D:285:PRO:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:279:LEU:HD12	1:D:289:PHE:CD1	2.49	0.48
1:A:76:GLN:OE1	1:A:92:LEU:HD13	2.13	0.48
1:B:217:PHE:O	1:B:220:SER:HB3	2.14	0.48
1:C:50:GLU:OE1	1:C:96:ILE:HD12	2.14	0.48
1:D:88:LYS:H	1:D:100:GLU:HG3	1.79	0.48
1:C:165:PRO:HA	1:C:168:ALA:HB3	1.96	0.48
1:C:311:ASN:HD21	1:C:314:ILE:H	1.53	0.48
1:C:159:VAL:CG2	1:D:45:PRO:HG2	2.44	0.48
1:D:66:LYS:O	1:D:81:PHE:HB2	2.14	0.48
1:B:110:ILE:CG2	1:B:111:THR:N	2.77	0.48
1:D:308:LYS:HB3	1:D:308:LYS:HZ3	1.78	0.48
1:B:249:VAL:HG22	1:B:278:MSE:SE	2.64	0.48
1:B:263:ALA:HB2	1:B:319:PHE:CE1	2.48	0.48
1:A:122:LYS:O	1:A:144:ILE:HG23	2.13	0.48
1:A:152:ILE:HG23	1:A:153:ASP:N	2.29	0.48
1:C:167:VAL:C	1:C:169:ILE:H	2.17	0.48
1:D:119:PRO:HG3	2:D:412:HOH:O	2.14	0.48
1:A:237:SER:H	1:A:241:HIS:CD2	2.32	0.48
1:B:270:TYR:O	1:B:271:PRO:C	2.51	0.48
1:B:97:GLN:O	1:B:98:LEU:HB3	2.14	0.47
1:C:193:GLY:HA2	1:C:225:LEU:O	2.13	0.47
1:D:245:ILE:O	1:D:249:VAL:HG23	2.14	0.47
1:D:151:GLU:HG2	1:D:157:VAL:CG2	2.44	0.47
1:D:269:THR:O	1:D:269:THR:HG22	2.13	0.47
1:B:66:LYS:O	1:B:68:LEU:N	2.47	0.47
1:B:113:LEU:HA	1:B:315:HIS:CE1	2.49	0.47
1:C:184:VAL:HG23	1:C:185:ALA:N	2.29	0.47
1:A:55:TRP:CD1	1:A:55:TRP:O	2.67	0.47
1:A:125:LEU:CD2	1:A:187:LEU:HD11	2.44	0.47
1:B:112:HIS:NE2	1:B:137:GLU:OE1	2.42	0.47
1:D:223:ARG:HG3	1:D:223:ARG:HH11	1.79	0.47
1:B:113:LEU:CD1	1:B:279:LEU:HG	2.44	0.47
1:D:245:ILE:O	1:D:247:ASP:N	2.47	0.47
1:A:108:GLU:OE1	1:A:309:PHE:N	2.45	0.47
1:A:162:GLN:NE2	1:C:42:THR:HB	2.29	0.47
1:C:158:ASP:HA	1:C:161:LYS:HE3	1.95	0.47
1:A:95:VAL:O	1:A:97:GLN:NE2	2.47	0.47
1:A:321:LEU:CD1	1:A:326:LYS:HG3	2.44	0.47
1:B:83:SER:OG	1:B:86:TYR:N	2.43	0.47
1:B:99:THR:HG23	1:B:269:THR:HG21	1.96	0.47
1:B:106:TYR:O	1:B:109:MSE:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:135:LEU:HD11	1:B:149:MSE:HG3	1.96	0.47
1:C:154:LYS:HD3	1:C:154:LYS:C	2.34	0.47
1:C:236:GLU:HG3	1:C:241:HIS:CD2	2.49	0.47
1:D:263:ALA:O	1:D:277:PHE:N	2.47	0.47
1:D:329:ILE:O	1:D:330:GLU:HB2	2.13	0.47
1:A:296:ILE:HB	1:A:307:LEU:HD11	1.96	0.47
1:A:51:MSE:HE3	1:C:72:LYS:N	2.25	0.47
1:A:165:PRO:HG2	1:A:166:ASP:H	1.78	0.47
1:B:57:GLY:HA2	1:C:63:LYS:HB3	1.95	0.47
1:B:173:ASP:HB3	1:B:176:VAL:CG2	2.44	0.47
1:B:257:LYS:HE3	1:B:283:GLU:HB2	1.96	0.47
1:A:161:LYS:NZ	2:A:343:HOH:O	2.40	0.47
1:A:238:LEU:HD12	1:A:238:LEU:C	2.35	0.47
1:B:164:PHE:O	1:B:167:VAL:HG23	2.14	0.47
1:A:238:LEU:HD22	1:A:242:MSE:HE1	1.95	0.47
1:D:322:PRO:O	1:D:325:ALA:N	2.46	0.47
1:A:126:VAL:O	1:A:149:MSE:HA	2.14	0.47
1:A:206:ILE:HG23	1:A:207:GLY:N	2.29	0.47
1:A:310:TYR:HE2	1:A:315:HIS:HD1	1.61	0.47
1:B:51:MSE:HG3	1:B:59:ALA:HB2	1.96	0.47
1:C:206:ILE:HG23	1:C:207:GLY:N	2.29	0.47
1:D:99:THR:OG1	1:D:102:ASP:OD1	2.28	0.47
1:A:241:HIS:HB3	1:A:244:ILE:HB	1.96	0.47
1:D:124:VAL:HG13	1:D:197:ALA:O	2.14	0.47
1:A:121:PRO:O	1:A:144:ILE:HD13	2.15	0.47
1:B:109:MSE:CE	1:B:310:TYR:HB2	2.45	0.47
1:C:99:THR:HG22	1:C:101:ARG:H	1.79	0.47
1:D:112:HIS:O	1:D:116:CYS:HB2	2.13	0.47
1:B:140:ARG:NH2	1:B:307:LEU:HD23	2.28	0.47
1:C:194:SER:HB2	2:C:479:HOH:O	2.14	0.47
1:D:259:SER:O	1:D:280:CYS:HA	2.14	0.47
1:A:88:LYS:HB3	1:A:164:PHE:CE1	2.49	0.47
1:A:215:LYS:N	1:A:216:PRO:CD	2.77	0.47
1:A:51:MSE:HE3	2:A:395:HOH:O	2.15	0.47
1:C:68:LEU:HB3	1:C:163:PHE:CE1	2.49	0.47
1:C:313:GLU:HG3	2:C:490:HOH:O	2.13	0.47
1:B:80:VAL:HA	1:B:89:VAL:O	2.15	0.47
1:C:92:LEU:HD11	1:C:130:GLY:CA	2.43	0.47
1:C:124:VAL:HG22	1:C:197:ALA:CB	2.19	0.47
1:C:147:ILE:HB	1:C:176:VAL:HG22	1.97	0.47
1:A:260:VAL:HG23	1:A:278:MSE:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:111:THR:OG1	1:D:137:GLU:HB3	2.14	0.47
1:A:238:LEU:HD12	1:A:264:TRP:CE3	2.49	0.47
1:A:133:GLY:O	1:A:137:GLU:HG2	2.14	0.47
1:B:210:LYS:HD3	1:B:210:LYS:C	2.34	0.47
1:C:73:SER:HB3	1:C:155:MSE:SE	2.64	0.47
1:D:178:LEU:HD12	1:D:179:VAL:N	2.30	0.47
1:A:263:ALA:HB2	1:A:319:PHE:CE1	2.49	0.47
1:B:61:SER:O	1:C:58:GLU:HA	2.14	0.47
1:B:112:HIS:O	1:B:116:CYS:HB2	2.15	0.47
1:C:198:VAL:HG23	1:C:225:LEU:HD21	1.95	0.47
1:D:157:VAL:O	1:D:161:LYS:HG3	2.15	0.47
1:C:154:LYS:HB2	1:C:180:ILE:CG1	2.43	0.47
1:D:52:SER:HB3	1:D:55:TRP:CE2	2.49	0.47
1:D:111:THR:HG22	1:D:134:VAL:HG13	1.96	0.47
1:B:252:CYS:HB3	1:B:280:CYS:SG	2.53	0.47
1:B:324:PHE:CD1	1:B:324:PHE:C	2.87	0.47
1:A:109:MSE:SE	1:A:318:ALA:HB2	2.64	0.47
1:A:150:CYS:SG	1:A:179:VAL:HB	2.55	0.47
1:C:72:LYS:HE2	1:C:77:ASP:OD1	2.13	0.47
1:A:264:TRP:CZ2	1:A:322:PRO:HD3	2.49	0.47
1:D:198:VAL:CB	1:D:231:VAL:HG22	2.40	0.47
1:B:125:LEU:HB2	1:B:195:TYR:CE1	2.49	0.47
1:D:125:LEU:HB3	1:D:198:VAL:HG22	1.95	0.47
1:A:257:LYS:HG3	1:A:283:GLU:HB2	1.96	0.47
1:D:54:MSE:HB2	1:D:55:TRP:CE3	2.49	0.47
1:A:115:LEU:HD11	1:A:124:VAL:HG21	1.97	0.47
1:C:222:ALA:HA	1:C:282:THR:CG2	2.44	0.47
1:C:311:ASN:CG	1:C:314:ILE:HD13	2.34	0.47
1:D:256:PHE:HD1	1:D:282:THR:CG2	2.26	0.47
1:B:98:LEU:HD12	1:B:98:LEU:O	2.15	0.47
1:C:236:GLU:O	1:C:275:ILE:HD12	2.14	0.47
1:A:165:PRO:HG2	1:A:166:ASP:H	1.79	0.47
1:B:54:MSE:SE	2:B:567:HOH:O	2.82	0.47
1:B:110:ILE:O	1:B:114:PRO:HD2	2.14	0.47
1:B:192:GLU:HG3	1:B:223:ARG:HG2	1.96	0.47
1:C:79:ILE:HB	1:C:91:VAL:HB	1.97	0.47
1:A:79:ILE:HB	1:A:91:VAL:HB	1.96	0.47
1:B:172:GLU:O	1:B:173:ASP:C	2.52	0.47
1:B:42:THR:HA	1:B:49:SER:CB	2.44	0.47
1:B:43:VAL:HG23	1:B:44:ILE:HG13	1.96	0.47
1:A:301:SER:HB3	1:A:304:ASN:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:231:VAL:CG2	1:B:232:CYS:N	2.77	0.47
1:A:78:VAL:HG12	1:A:79:ILE:N	2.30	0.47
1:A:299:SER:C	1:A:301:SER:N	2.66	0.47
1:B:160:SER:HA	1:B:164:PHE:HD2	1.79	0.47
1:C:181:GLY:O	1:C:182:ASP:C	2.52	0.47
1:A:154:LYS:HG2	1:A:158:ASP:OD2	2.14	0.47
1:A:253:ARG:CG	1:A:260:VAL:HG21	2.45	0.47
1:A:310:TYR:CD1	1:A:310:TYR:C	2.87	0.47
1:C:169:ILE:HA	1:C:172:GLU:OE1	2.15	0.47
1:D:136:ARG:HG2	1:D:136:ARG:HH11	1.79	0.47
1:C:206:ILE:HG23	1:C:207:GLY:N	2.29	0.47
1:D:111:THR:CG2	1:D:134:VAL:HG13	2.44	0.47
1:D:99:THR:OG1	1:D:100:GLU:N	2.46	0.47
1:A:162:GLN:OE1	1:C:42:THR:HB	2.13	0.47
1:A:169:ILE:O	1:A:172:GLU:HB2	2.15	0.47
1:A:257:LYS:HB2	1:A:283:GLU:HG3	1.95	0.47
1:A:44:ILE:HD12	1:D:51:MSE:HE1	1.96	0.47
1:A:310:TYR:HE2	1:A:315:HIS:ND1	2.11	0.47
1:B:44:ILE:HD13	1:C:51:MSE:CE	2.45	0.47
1:D:42:THR:HA	1:D:49:SER:HB2	1.96	0.47
1:D:198:VAL:O	1:D:231:VAL:HG13	2.15	0.47
1:A:54:MSE:HE2	1:A:54:MSE:HA	1.97	0.47
1:A:107:GLN:O	1:A:110:ILE:HG22	2.14	0.47
1:A:206:ILE:HG23	1:A:207:GLY:N	2.29	0.47
1:D:108:GLU:HG2	1:D:137:GLU:HG3	1.96	0.47
1:C:135:LEU:HB3	1:C:170:GLY:HA3	1.96	0.47
1:C:169:ILE:HA	1:C:172:GLU:OE2	2.13	0.47
1:C:263:ALA:HB2	1:C:319:PHE:CE1	2.49	0.47
1:D:69:PHE:O	1:D:79:ILE:HA	2.14	0.47
1:B:136:ARG:NE	1:B:167:VAL:HG12	2.20	0.47
1:C:121:PRO:O	1:C:144:ILE:HD13	2.15	0.47
1:D:64:VAL:HG12	1:D:65:GLU:N	2.30	0.47
1:D:111:THR:CG2	1:D:134:VAL:HG13	2.44	0.47
1:A:326:LYS:HE3	1:D:313:GLU:OE1	2.15	0.47
1:B:199:ILE:HA	1:B:232:CYS:O	2.14	0.47
1:B:308:LYS:C	1:C:323:SER:HB2	2.35	0.47
1:C:104:CYS:HB2	1:C:308:LYS:HB2	1.97	0.47
1:C:141:HIS:HB2	1:C:144:ILE:HG12	1.96	0.47
1:C:169:ILE:C	1:C:171:TYR:H	2.17	0.47
1:C:242:MSE:HA	1:C:242:MSE:HE2	1.97	0.47
1:C:262:TYR:HA	1:C:277:PHE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:68:LEU:CD1	1:D:81:PHE:HA	2.45	0.47
1:D:111:THR:OG1	1:D:137:GLU:HB3	2.14	0.47
1:D:136:ARG:HE	1:D:167:VAL:CB	2.20	0.47
1:A:90:LEU:HD22	1:A:97:GLN:CB	2.44	0.47
1:A:125:LEU:HD21	1:A:187:LEU:HD11	1.97	0.47
1:A:127:ILE:HD12	1:A:127:ILE:C	2.35	0.47
1:B:327:LYS:HD3	1:B:327:LYS:C	2.35	0.47
1:C:248:ILE:HG22	1:C:248:ILE:O	2.13	0.47
1:C:322:PRO:HG2	1:C:325:ALA:CB	2.45	0.47
1:D:139:ALA:C	1:D:141:HIS:H	2.17	0.47
1:A:122:LYS:O	1:A:144:ILE:HG23	2.15	0.47
1:A:64:VAL:HG12	1:A:65:GLU:N	2.29	0.47
1:A:296:ILE:HG21	1:A:301:SER:OG	2.14	0.47
1:B:164:PHE:N	1:B:165:PRO:HD3	2.30	0.47
1:D:55:TRP:O	1:D:58:GLU:HG2	2.15	0.47
1:D:182:ASP:OD2	1:D:184:VAL:HB	2.15	0.47
1:A:104:CYS:O	1:A:108:GLU:HG3	2.14	0.47
1:A:187:LEU:O	1:A:190:ALA:HB3	2.15	0.47
1:A:295:PRO:CB	1:A:310:TYR:HE1	2.26	0.47
1:C:72:LYS:HE2	1:C:77:ASP:CG	2.35	0.47
1:D:69:PHE:O	1:D:79:ILE:HA	2.14	0.47
1:A:121:PRO:HA	2:A:386:HOH:O	2.15	0.47
1:B:91:VAL:HA	1:B:95:VAL:O	2.14	0.47
1:B:103:GLU:O	1:B:107:GLN:HG3	2.15	0.47
1:B:111:THR:O	1:B:115:LEU:HB2	2.14	0.47
1:B:307:LEU:HD13	1:B:310:TYR:HD1	1.79	0.47
1:C:116:CYS:SG	1:C:295:PRO:HA	2.55	0.47
1:C:161:LYS:HA	1:C:168:ALA:HB2	1.96	0.47
1:C:223:ARG:HA	2:C:477:HOH:O	2.15	0.47
1:D:241:HIS:HB3	1:D:244:ILE:HB	1.96	0.47
1:D:313:GLU:CD	1:D:313:GLU:H	2.17	0.47
1:B:249:VAL:HG21	1:B:329:ILE:HG21	1.97	0.47
1:D:107:GLN:CD	1:D:133:GLY:HA3	2.35	0.47
1:B:81:PHE:CE2	1:B:89:VAL:HB	2.50	0.47
1:B:242:MSE:HA	1:B:242:MSE:HE3	1.96	0.47
1:B:272:SER:OG	1:B:274:VAL:HG22	2.14	0.47
1:B:274:VAL:HG13	2:C:398:HOH:O	2.15	0.47
1:B:321:LEU:O	1:C:314:ILE:HD11	2.14	0.47
1:C:50:GLU:HG2	1:C:55:TRP:HZ2	1.79	0.47
1:D:123:LYS:HB3	1:D:195:TYR:HA	1.96	0.47
1:A:298:GLU:OE1	1:A:302:LYS:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:MSE:SE	1:B:54:MSE:N	2.98	0.47
1:C:68:LEU:O	1:C:69:PHE:HB2	2.14	0.47
1:C:323:SER:C	1:C:325:ALA:H	2.17	0.47
1:D:107:GLN:CD	1:D:133:GLY:HA3	2.34	0.47
1:A:149:MSE:CG	1:A:178:LEU:HD13	2.44	0.47
1:B:106:TYR:OH	1:B:234:GLN:HG3	2.15	0.47
1:B:278:MSE:SE	1:B:279:LEU:N	2.98	0.47
1:C:123:LYS:HG2	1:C:195:TYR:CD1	2.50	0.47
1:A:129:GLY:H	1:A:149:MSE:SE	2.48	0.47
1:B:78:VAL:O	1:B:79:ILE:HG13	2.14	0.47
1:C:165:PRO:HG2	1:C:166:ASP:H	1.80	0.47
1:C:169:ILE:HA	1:C:172:GLU:OE2	2.14	0.47
1:D:78:VAL:C	1:D:79:ILE:HG13	2.35	0.47
1:D:136:ARG:HG2	2:D:356:HOH:O	2.15	0.47
1:D:326:LYS:NZ	2:D:351:HOH:O	2.48	0.47
1:A:76:GLN:OE1	1:A:92:LEU:HB3	2.15	0.47
1:C:49:SER:HB3	1:C:61:SER:OG	2.15	0.47
1:C:229:GLY:O	1:C:281:SER:HA	2.15	0.47
1:D:262:TYR:HD2	1:D:278:MSE:HE3	1.80	0.47
1:D:328:VAL:HG13	2:D:415:HOH:O	2.15	0.47
1:B:121:PRO:O	1:B:144:ILE:HD13	2.15	0.47
1:A:92:LEU:O	1:A:93:ASP:C	2.53	0.47
1:A:111:THR:OG1	1:A:134:VAL:HG13	2.14	0.47
1:A:206:ILE:HG23	1:A:207:GLY:H	1.80	0.47
1:A:293:LEU:HD23	1:A:293:LEU:O	2.15	0.47
1:C:261:ASN:HD21	1:C:289:PHE:HB2	1.78	0.47
1:B:192:GLU:HG3	1:B:223:ARG:HG2	1.96	0.47
1:C:58:GLU:CD	1:C:58:GLU:N	2.68	0.47
1:C:152:ILE:HD12	1:C:182:ASP:HB2	1.97	0.47
1:D:250:SER:HA	1:D:253:ARG:HD2	1.97	0.47
1:A:120:ASN:O	1:A:122:LYS:HE2	2.15	0.47
1:C:104:CYS:O	1:C:108:GLU:HB2	2.14	0.47
1:C:245:ILE:O	1:C:249:VAL:HG23	2.15	0.47
1:D:234:GLN:HE21	1:D:236:GLU:N	2.04	0.47
1:D:313:GLU:N	1:D:313:GLU:CD	2.68	0.47
1:A:94:GLY:O	1:A:95:VAL:CG2	2.60	0.47
1:A:239:TRP:O	1:D:101:ARG:NH2	2.48	0.47
1:D:110:ILE:CD1	1:D:201:ASP:HA	2.44	0.47
1:A:69:PHE:HE1	1:A:78:VAL:HB	1.80	0.47
1:A:109:MSE:HG3	1:A:265:THR:OG1	2.13	0.47
1:A:170:GLY:C	1:A:172:GLU:N	2.69	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:VAL:O	1:D:44:ILE:HG13	2.14	0.47
1:D:92:LEU:HD12	1:D:97:GLN:HG2	1.97	0.47
1:A:68:LEU:HB2	1:A:80:VAL:HG12	1.97	0.47
1:A:92:LEU:O	1:A:94:GLY:N	2.48	0.47
1:A:191:ALA:HB3	1:A:194:SER:HB3	1.97	0.47
1:A:227:PRO:HB2	1:A:284:GLY:HA3	1.97	0.47
1:C:151:GLU:HG2	1:C:157:VAL:CG2	2.44	0.47
1:C:164:PHE:HB3	1:C:167:VAL:HB	1.97	0.47
1:D:296:ILE:HG23	1:D:307:LEU:HD11	1.96	0.47
1:C:198:VAL:O	1:C:231:VAL:HA	2.14	0.47
1:D:60:HIS:CD2	2:D:364:HOH:O	2.68	0.47
1:A:72:LYS:HA	1:A:77:ASP:HA	1.96	0.47
1:D:139:ALA:C	1:D:175:ARG:HH12	2.17	0.47
1:A:92:LEU:O	1:A:95:VAL:N	2.48	0.47
1:B:125:LEU:HA	1:B:148:ASP:O	2.15	0.47
1:A:106:TYR:HE2	1:A:201:ASP:OD2	1.97	0.47
1:C:165:PRO:O	1:C:167:VAL:N	2.48	0.47
1:D:90:LEU:HB3	1:D:98:LEU:CD1	2.45	0.47
1:C:324:PHE:CD1	1:C:325:ALA:N	2.83	0.47
1:B:63:LYS:NZ	2:B:534:HOH:O	2.37	0.47
1:B:155:MSE:O	1:B:159:VAL:HG23	2.15	0.47
1:C:97:GLN:NE2	1:C:97:GLN:CA	2.77	0.47
1:A:139:ALA:O	1:A:141:HIS:N	2.48	0.47
1:B:85:THR:HG21	1:C:56:PRO:O	2.14	0.47
1:B:231:VAL:HG12	1:B:280:CYS:O	2.15	0.47
1:B:327:LYS:O	1:B:327:LYS:HG2	2.15	0.47
1:C:68:LEU:HB2	1:C:80:VAL:HG12	1.98	0.47
1:A:134:VAL:O	1:A:138:VAL:HG23	2.15	0.46
1:A:310:TYR:CD1	1:A:311:ASN:N	2.83	0.46
1:D:60:HIS:CD2	2:D:360:HOH:O	2.69	0.46
1:D:164:PHE:O	1:D:167:VAL:HG22	2.15	0.46
1:D:274:VAL:HG23	1:D:274:VAL:O	2.15	0.46
1:C:66:LYS:HG2	1:C:67:VAL:N	2.30	0.46
1:C:82:GLN:NE2	1:C:88:LYS:N	2.63	0.46
1:C:125:LEU:HB2	1:C:195:TYR:CE1	2.50	0.46
1:D:51:MSE:O	1:D:52:SER:CB	2.63	0.46
1:B:235:ALA:HB2	1:B:278:MSE:HB2	1.96	0.46
1:C:55:TRP:HH2	1:C:95:VAL:HG13	1.80	0.46
1:A:215:LYS:HG2	1:A:255:ILE:CG1	2.44	0.46
1:C:82:GLN:HE22	1:C:88:LYS:HE3	1.78	0.46
1:A:108:GLU:CD	1:A:307:LEU:HB3	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:89:VAL:HG13	1:C:96:ILE:HG23	1.96	0.46
1:C:307:LEU:H	1:C:307:LEU:CD1	2.28	0.46
1:A:279:LEU:HB3	1:A:289:PHE:CD2	2.50	0.46
1:A:288:ASP:OD1	1:A:290:LYS:HB2	2.16	0.46
1:A:324:PHE:CE1	1:A:325:ALA:HB2	2.50	0.46
1:B:269:THR:O	1:B:269:THR:HG22	2.14	0.46
1:C:206:ILE:HG23	1:C:207:GLY:N	2.29	0.46
1:C:238:LEU:HD23	1:C:245:ILE:HD13	1.96	0.46
1:A:96:ILE:HD12	1:A:269:THR:HG23	1.97	0.46
1:D:191:ALA:HB3	1:D:194:SER:HB3	1.97	0.46
1:D:241:HIS:ND1	1:D:244:ILE:HD12	2.30	0.46
1:A:80:VAL:HG21	1:A:159:VAL:CG1	2.44	0.46
1:A:97:GLN:NE2	1:A:97:GLN:HA	2.30	0.46
1:A:124:VAL:HG13	1:A:197:ALA:HB3	1.96	0.46
1:A:173:ASP:HB3	1:A:176:VAL:CG2	2.44	0.46
1:D:60:HIS:CD2	2:D:364:HOH:O	2.68	0.46
1:C:245:ILE:HA	1:C:248:ILE:HD12	1.97	0.46
1:C:150:CYS:SG	1:C:181:GLY:O	2.74	0.46
1:D:60:HIS:CD2	2:D:360:HOH:O	2.68	0.46
1:B:146:GLN:HA	1:B:175:ARG:HB3	1.97	0.46
1:C:136:ARG:HH12	1:C:167:VAL:HG22	1.80	0.46
1:C:154:LYS:HB2	1:C:180:ILE:HG21	1.97	0.46
1:D:98:LEU:HD12	1:D:98:LEU:O	2.14	0.46
1:D:136:ARG:HG2	1:D:136:ARG:HH11	1.80	0.46
1:D:114:PRO:HG2	1:D:115:LEU:H	1.79	0.46
1:C:66:LYS:HE2	1:C:68:LEU:HA	1.97	0.46
1:A:52:SER:HB3	1:A:55:TRP:CE2	2.49	0.46
1:D:118:ILE:HD11	1:D:121:PRO:HB3	1.96	0.46
1:B:129:GLY:HA3	2:B:575:HOH:O	2.15	0.46
1:B:240:LEU:HD21	1:B:272:SER:HB2	1.97	0.46
1:D:73:SER:C	1:D:75:TYR:H	2.17	0.46
1:B:157:VAL:HG13	1:B:171:TYR:CZ	2.50	0.46
1:C:165:PRO:HG2	1:C:166:ASP:H	1.81	0.46
1:D:263:ALA:HB2	1:D:319:PHE:CE1	2.50	0.46
1:B:113:LEU:N	1:B:114:PRO:HD2	2.29	0.46
1:B:243:ASP:HA	1:B:246:GLU:OE1	2.15	0.46
1:C:197:ALA:HA	1:C:230:VAL:O	2.14	0.46
1:C:307:LEU:N	1:C:307:LEU:HD12	2.30	0.46
1:D:111:THR:HG21	1:D:134:VAL:HA	1.97	0.46
1:D:205:PRO:HG3	1:D:244:ILE:HD13	1.97	0.46
1:B:108:GLU:OE1	1:B:310:TYR:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:313:GLU:CD	1:D:313:GLU:H	2.18	0.46
1:B:113:LEU:HD11	1:B:319:PHE:HZ	1.80	0.46
1:D:259:SER:O	1:D:280:CYS:HA	2.16	0.46
1:B:133:GLY:O	1:B:137:GLU:HG2	2.15	0.46
1:C:132:GLY:HA3	1:C:149:MSE:HE1	1.96	0.46
1:C:310:TYR:C	1:C:310:TYR:CD1	2.89	0.46
1:A:79:ILE:CG2	1:A:80:VAL:N	2.78	0.46
1:B:195:TYR:O	1:B:225:LEU:HD23	2.15	0.46
1:B:68:LEU:H	1:B:81:PHE:HA	1.79	0.46
1:B:206:ILE:HG23	1:B:206:ILE:O	2.15	0.46
1:D:69:PHE:HB2	1:D:163:PHE:CZ	2.50	0.46
1:D:310:TYR:CD1	1:D:310:TYR:C	2.89	0.46
1:A:299:SER:O	1:A:301:SER:N	2.49	0.46
1:C:225:LEU:HB3	1:C:229:GLY:HA3	1.96	0.46
1:C:313:GLU:HG3	2:C:490:HOH:O	2.14	0.46
1:D:158:ASP:O	1:D:161:LYS:HB2	2.16	0.46
1:A:92:LEU:O	1:A:95:VAL:N	2.44	0.46
1:C:268:PRO:O	1:C:270:TYR:N	2.49	0.46
1:A:51:MSE:CG	2:A:395:HOH:O	2.48	0.46
1:A:135:LEU:HD12	1:A:135:LEU:N	2.31	0.46
1:A:290:LYS:HD3	2:A:373:HOH:O	2.15	0.46
1:C:127:ILE:HG12	1:C:217:PHE:CZ	2.51	0.46
1:C:173:ASP:HB3	1:C:176:VAL:HG23	1.97	0.46
1:C:252:CYS:HB3	1:C:280:CYS:SG	2.56	0.46
1:D:86:TYR:O	1:D:100:GLU:HB2	2.15	0.46
1:D:90:LEU:HB3	1:D:98:LEU:CG	2.44	0.46
1:D:107:GLN:CD	1:D:133:GLY:HA3	2.36	0.46
1:A:80:VAL:CG2	1:A:159:VAL:HG11	2.30	0.46
1:A:310:TYR:CG	1:A:311:ASN:N	2.83	0.46
1:C:283:GLU:H	1:C:283:GLU:CD	2.19	0.46
1:C:100:GLU:HA	1:C:103:GLU:OE2	2.15	0.46
1:C:262:TYR:HA	1:C:277:PHE:O	2.16	0.46
1:D:169:ILE:HG23	1:D:170:GLY:N	2.30	0.46
1:A:86:TYR:O	1:A:99:THR:HG23	2.16	0.46
1:A:115:LEU:HD12	1:A:115:LEU:HA	1.80	0.46
1:D:111:THR:CG2	1:D:134:VAL:HG13	2.45	0.46
1:D:141:HIS:O	1:D:143:SER:N	2.48	0.46
1:B:86:TYR:CD2	1:B:101:ARG:HB3	2.50	0.46
1:C:222:ALA:HA	1:C:282:THR:HG21	1.96	0.46
1:B:200:VAL:C	1:B:202:SER:H	2.17	0.46
1:C:303:SER:C	1:C:305:GLY:N	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:GLY:O	1:A:277:PHE:CG	2.68	0.46
1:C:152:ILE:HG13	1:C:182:ASP:N	2.31	0.46
1:D:76:GLN:CD	1:D:92:LEU:HD22	2.36	0.46
1:D:242:MSE:CE	1:D:325:ALA:HA	2.43	0.46
1:C:109:MSE:HE2	1:C:113:LEU:HG	1.96	0.46
1:A:298:GLU:O	1:A:301:SER:O	2.32	0.46
1:C:151:GLU:O	1:C:180:ILE:HA	2.14	0.46
1:C:154:LYS:HD3	1:C:158:ASP:HB2	1.97	0.46
1:D:187:LEU:HB3	1:D:220:SER:OG	2.14	0.46
1:A:153:ASP:C	1:A:153:ASP:OD1	2.53	0.46
1:B:233:THR:HG23	2:B:471:HOH:O	2.14	0.46
1:B:82:GLN:HE22	1:B:88:LYS:HG3	1.81	0.46
1:A:225:LEU:HB2	1:A:282:THR:HG21	1.98	0.46
1:C:169:ILE:O	1:C:172:GLU:HB2	2.15	0.46
1:D:274:VAL:C	1:D:275:ILE:O	2.53	0.46
1:B:42:THR:HG23	1:C:42:THR:O	2.14	0.46
1:A:243:ASP:OD2	1:A:244:ILE:HG13	2.16	0.46
1:B:149:MSE:HE1	1:B:171:TYR:HE1	1.80	0.46
1:B:257:LYS:CB	1:B:283:GLU:HB2	2.40	0.46
1:A:297:ASP:CG	1:A:298:GLU:N	2.68	0.46
1:C:236:GLU:O	1:C:276:GLY:HA3	2.15	0.46
1:B:170:GLY:C	1:B:172:GLU:H	2.19	0.46
1:C:161:LYS:HA	1:C:168:ALA:CB	2.45	0.46
1:D:112:HIS:ND1	1:D:141:HIS:HE1	2.12	0.46
1:D:114:PRO:HG2	1:D:115:LEU:H	1.80	0.46
1:A:223:ARG:CD	2:A:360:HOH:O	2.61	0.46
1:B:96:ILE:HG21	1:B:269:THR:CG2	2.46	0.46
1:B:198:VAL:O	1:B:231:VAL:HA	2.15	0.46
1:D:262:TYR:OH	1:D:276:GLY:HA3	2.16	0.46
1:A:292:PRO:HB3	1:A:315:HIS:ND1	2.30	0.46
1:A:310:TYR:CD1	1:A:310:TYR:C	2.88	0.46
1:B:109:MSE:O	1:B:113:LEU:HB2	2.16	0.46
1:D:122:LYS:HD3	1:D:145:GLU:OE2	2.15	0.46
1:D:249:VAL:HG21	1:D:329:ILE:HG23	1.98	0.46
1:B:148:ASP:OD1	1:B:177:ASN:HB3	2.16	0.46
1:B:228:GLY:N	1:B:282:THR:OG1	2.49	0.46
1:B:324:PHE:CD1	1:B:325:ALA:N	2.83	0.46
1:D:112:HIS:O	1:D:116:CYS:HB2	2.15	0.46
1:D:128:GLY:HA2	2:D:551:HOH:O	2.16	0.46
1:B:113:LEU:HD23	1:B:315:HIS:ND1	2.31	0.46
1:D:113:LEU:N	1:D:114:PRO:HD2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:LEU:HD23	1:A:176:VAL:HG21	1.97	0.46
1:B:136:ARG:HH21	1:B:167:VAL:HG12	1.80	0.46
1:D:54:MSE:SE	1:D:206:ILE:HB	2.65	0.46
1:D:233:THR:O	1:D:277:PHE:HA	2.14	0.46
1:D:68:LEU:HG	1:D:163:PHE:HE1	1.81	0.46
1:D:265:THR:OG1	1:D:266:SER:N	2.49	0.46
1:A:46:GLY:HA3	1:A:63:LYS:HZ1	1.81	0.46
1:C:112:HIS:CE1	1:C:141:HIS:HE2	2.34	0.46
1:B:85:THR:HG1	1:C:57:GLY:HA3	1.80	0.46
1:C:125:LEU:HB2	1:C:195:TYR:CE1	2.51	0.46
1:C:263:ALA:O	1:C:276:GLY:HA2	2.16	0.46
1:A:125:LEU:HD13	1:A:186:PHE:CE1	2.51	0.46
1:A:257:LYS:NZ	2:A:566:HOH:O	2.49	0.46
1:B:113:LEU:HB3	1:B:279:LEU:HD11	1.96	0.46
1:C:198:VAL:HG21	1:C:221:VAL:HG13	1.98	0.46
1:D:115:LEU:HD23	1:D:141:HIS:CD2	2.50	0.46
1:A:236:GLU:HB2	1:A:245:ILE:CG1	2.45	0.46
1:B:249:VAL:HG22	1:B:278:MSE:CE	2.45	0.46
1:B:320:CYS:HB3	1:C:313:GLU:HB3	1.97	0.46
1:D:115:LEU:HB3	1:D:141:HIS:NE2	2.30	0.46
1:D:269:THR:HG22	1:D:269:THR:O	2.15	0.46
1:A:70:GLN:NE2	1:A:71:GLY:N	2.63	0.46
1:A:99:THR:HG22	1:A:101:ARG:N	2.31	0.46
1:A:323:SER:C	1:A:325:ALA:H	2.18	0.46
1:A:58:GLU:HA	1:D:61:SER:O	2.15	0.46
1:A:228:GLY:N	1:A:282:THR:OG1	2.49	0.46
1:C:324:PHE:HA	1:C:327:LYS:CE	2.41	0.46
1:A:206:ILE:HG13	1:A:207:GLY:N	2.31	0.46
1:B:249:VAL:HG22	1:B:278:MSE:SE	2.66	0.46
1:D:97:GLN:HA	1:D:97:GLN:NE2	2.31	0.46
1:D:187:LEU:HD21	1:D:221:VAL:HG22	1.97	0.46
1:A:43:VAL:HG13	1:D:43:VAL:CA	2.45	0.46
1:A:236:GLU:O	1:A:275:ILE:HD12	2.15	0.46
1:C:125:LEU:HD12	1:C:148:ASP:O	2.15	0.46
1:D:279:LEU:HG	1:D:319:PHE:HZ	1.80	0.46
1:C:129:GLY:CA	1:C:151:GLU:HB2	2.44	0.46
1:C:134:VAL:O	1:C:138:VAL:HG23	2.16	0.46
1:D:200:VAL:HB	1:D:233:THR:CG2	2.46	0.46
1:A:135:LEU:HD21	1:A:176:VAL:HG11	1.96	0.46
1:A:226:ARG:HD2	1:A:227:PRO:O	2.16	0.46
1:D:314:ILE:HA	1:D:317:ALA:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:227:PRO:HB3	1:C:283:GLU:O	2.15	0.46
1:A:88:LYS:N	1:A:100:GLU:OE1	2.49	0.46
1:B:48:PHE:O	1:B:61:SER:HA	2.15	0.46
1:B:91:VAL:HA	1:B:95:VAL:O	2.16	0.46
1:D:245:ILE:O	1:D:249:VAL:HG23	2.16	0.46
1:A:238:LEU:O	1:A:242:MSE:HE3	2.15	0.46
1:A:314:ILE:HA	1:D:320:CYS:SG	2.56	0.46
1:B:164:PHE:N	1:B:165:PRO:HD3	2.30	0.46
1:B:324:PHE:CD1	1:B:324:PHE:C	2.89	0.46
1:C:185:ALA:O	1:C:188:LYS:HB2	2.14	0.46
1:D:294:ASN:HB2	2:D:425:HOH:O	2.16	0.46
1:A:301:SER:O	1:A:302:LYS:C	2.53	0.46
1:B:141:HIS:CE1	1:B:296:ILE:HD12	2.51	0.46
1:C:45:PRO:O	1:C:47:TRP:HD1	1.99	0.46
1:C:154:LYS:HB2	1:C:180:ILE:HD13	1.98	0.46
1:B:40:PHE:HA	1:C:42:THR:HG23	1.98	0.46
1:B:108:GLU:OE1	1:B:310:TYR:N	2.49	0.46
1:C:100:GLU:HA	1:C:103:GLU:OE2	2.16	0.46
1:A:260:VAL:HB	1:A:278:MSE:HE2	1.97	0.46
1:B:72:LYS:HA	1:B:77:ASP:HA	1.97	0.46
1:B:211:GLU:HA	1:B:214:GLU:OE1	2.14	0.46
1:D:68:LEU:H	1:D:68:LEU:CD1	2.29	0.46
1:A:311:ASN:H	1:A:314:ILE:HG22	1.81	0.46
1:D:90:LEU:HD23	1:D:98:LEU:HG	1.97	0.46
1:B:164:PHE:O	1:B:167:VAL:HG23	2.16	0.46
1:B:167:VAL:C	1:B:169:ILE:N	2.70	0.46
1:C:278:MSE:HE2	1:C:278:MSE:HA	1.98	0.46
1:D:110:ILE:HA	1:D:232:CYS:SG	2.56	0.46
1:D:263:ALA:HB2	1:D:319:PHE:CD1	2.51	0.46
1:B:150:CYS:HG	1:B:181:GLY:C	2.19	0.46
1:C:202:SER:O	1:C:234:GLN:HB3	2.16	0.46
1:C:227:PRO:C	1:C:285:PRO:HD2	2.36	0.46
1:D:113:LEU:N	1:D:114:PRO:HD2	2.31	0.46
1:A:110:ILE:HG21	1:A:134:VAL:HG22	1.98	0.46
1:A:113:LEU:N	1:A:114:PRO:CD	2.77	0.46
1:A:295:PRO:HG3	1:A:312:ALA:HB2	1.98	0.46
1:A:313:GLU:HG3	2:D:351:HOH:O	2.16	0.46
1:B:77:ASP:O	1:B:92:LEU:HA	2.15	0.46
1:A:50:GLU:OE2	1:A:96:ILE:HG13	2.16	0.46
1:A:135:LEU:HD21	1:A:176:VAL:HG11	1.98	0.46
1:A:309:PHE:CD1	1:A:309:PHE:O	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:215:LYS:HG2	1:B:251:ASN:HB3	1.97	0.45
1:B:329:ILE:O	1:B:330:GLU:C	2.55	0.45
1:C:230:VAL:HA	1:C:280:CYS:O	2.15	0.45
1:C:283:GLU:OE1	1:C:283:GLU:N	2.43	0.45
1:D:141:HIS:C	1:D:143:SER:H	2.20	0.45
1:B:49:SER:HA	1:B:60:HIS:O	2.16	0.45
1:C:98:LEU:HD12	1:C:103:GLU:HB3	1.99	0.45
1:D:120:ASN:ND2	1:D:122:LYS:HE3	2.31	0.45
1:C:47:TRP:CE2	1:C:63:LYS:HD3	2.50	0.45
1:C:65:GLU:OE1	1:C:65:GLU:HA	2.16	0.45
1:D:146:GLN:HE21	1:D:177:ASN:CB	2.26	0.45
1:A:86:TYR:HB3	1:A:99:THR:CG2	2.46	0.45
1:A:243:ASP:CG	1:A:244:ILE:H	2.19	0.45
1:A:279:LEU:HB3	1:A:289:PHE:CE2	2.52	0.45
1:D:54:MSE:HB2	1:D:55:TRP:CE3	2.51	0.45
1:A:210:LYS:C	1:A:212:LEU:H	2.20	0.45
1:C:214:GLU:HB3	1:C:216:PRO:HD2	1.99	0.45
1:A:43:VAL:CG1	1:A:44:ILE:N	2.79	0.45
1:A:154:LYS:HG3	1:A:180:ILE:HD13	1.98	0.45
1:B:136:ARG:HG3	1:B:136:ARG:HH11	1.81	0.45
1:B:223:ARG:HE	1:B:223:ARG:C	2.18	0.45
1:C:274:VAL:HG23	1:C:274:VAL:O	2.17	0.45
1:D:215:LYS:NZ	1:D:251:ASN:ND2	2.64	0.45
1:D:228:GLY:HA3	1:D:285:PRO:HD2	1.97	0.45
1:A:107:GLN:CD	1:A:133:GLY:HA3	2.37	0.45
1:A:126:VAL:HG12	1:A:127:ILE:N	2.31	0.45
1:A:163:PHE:HE1	1:C:45:PRO:HB3	1.82	0.45
1:B:236:GLU:HB3	1:B:241:HIS:ND1	2.31	0.45
1:C:230:VAL:HA	1:C:280:CYS:O	2.15	0.45
1:D:89:VAL:HG22	1:D:99:THR:HG22	1.97	0.45
1:C:229:GLY:O	1:C:281:SER:HA	2.16	0.45
1:C:248:ILE:HG21	1:C:278:MSE:HG3	1.98	0.45
1:D:323:SER:O	1:D:326:LYS:N	2.49	0.45
1:C:324:PHE:CD1	1:C:325:ALA:N	2.84	0.45
1:D:155:MSE:HG3	1:D:159:VAL:HG23	1.98	0.45
1:D:60:HIS:CE1	1:D:271:PRO:HA	2.51	0.45
1:A:123:LYS:HG3	1:A:195:TYR:HD1	1.80	0.45
1:A:125:LEU:HB2	1:A:195:TYR:CE1	2.51	0.45
1:A:313:GLU:HG3	2:D:350:HOH:O	2.15	0.45
1:A:324:PHE:O	1:A:328:VAL:HG23	2.16	0.45
1:C:90:LEU:HB3	1:C:98:LEU:HG	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:164:PHE:N	1:D:165:PRO:HD3	2.31	0.45
1:D:201:ASP:O	1:D:202:SER:O	2.34	0.45
1:A:148:ASP:OD1	1:A:177:ASN:HB3	2.15	0.45
1:A:192:GLU:HG2	2:A:424:HOH:O	2.15	0.45
1:A:307:LEU:HD12	1:A:307:LEU:N	2.31	0.45
1:A:313:GLU:HG3	2:D:351:HOH:O	2.15	0.45
1:B:139:ALA:HB1	1:B:175:ARG:HH21	1.81	0.45
1:C:264:TRP:CZ2	1:C:322:PRO:HD3	2.51	0.45
1:D:51:MSE:CA	1:D:55:TRP:HE1	2.29	0.45
1:A:159:VAL:HG13	1:A:163:PHE:HE2	1.81	0.45
1:A:223:ARG:HG3	1:A:223:ARG:HH11	1.80	0.45
1:A:54:MSE:CE	1:A:206:ILE:HD13	2.45	0.45
1:A:115:LEU:CD2	1:A:199:ILE:HD11	2.43	0.45
1:C:328:VAL:C	1:C:330:GLU:H	2.19	0.45
1:A:253:ARG:HH22	1:A:330:GLU:HB3	1.80	0.45
1:C:68:LEU:HB2	1:C:80:VAL:CG1	2.44	0.45
1:D:38:ALA:C	1:D:40:PHE:H	2.20	0.45
1:A:125:LEU:HD13	1:A:195:TYR:OH	2.16	0.45
1:B:111:THR:HG22	1:B:115:LEU:HD22	1.97	0.45
1:C:180:ILE:HD11	2:C:389:HOH:O	2.16	0.45
1:D:249:VAL:HG22	1:D:278:MSE:SE	2.67	0.45
1:A:125:LEU:HD13	1:A:186:PHE:CE1	2.52	0.45
1:A:109:MSE:HE3	1:A:314:ILE:HG13	1.98	0.45
1:D:249:VAL:HG11	1:D:329:ILE:HG23	1.97	0.45
1:A:59:ALA:O	1:D:61:SER:HB2	2.17	0.45
1:A:129:GLY:HA3	1:A:149:MSE:HE1	1.98	0.45
1:B:239:TRP:CD2	1:C:268:PRO:HG2	2.51	0.45
1:C:104:CYS:O	1:C:108:GLU:HG3	2.17	0.45
1:D:52:SER:HB3	1:D:55:TRP:CE2	2.50	0.45
1:A:135:LEU:CD2	1:A:149:MSE:HE2	2.20	0.45
1:B:327:LYS:O	1:B:327:LYS:HG2	2.16	0.45
1:C:128:GLY:O	1:C:129:GLY:C	2.54	0.45
1:A:131:ASP:HB2	1:A:167:VAL:CG1	2.46	0.45
1:B:54:MSE:HB3	1:B:55:TRP:CE3	2.51	0.45
1:C:328:VAL:C	1:C:330:GLU:H	2.20	0.45
1:B:113:LEU:HB2	1:B:114:PRO:CD	2.46	0.45
1:C:103:GLU:HB2	1:C:107:GLN:NE2	2.31	0.45
1:B:55:TRP:HB2	1:B:58:GLU:HG2	1.99	0.45
1:D:125:LEU:HB2	1:D:195:TYR:CE1	2.50	0.45
1:A:162:GLN:HE22	1:C:43:VAL:N	2.14	0.45
1:A:301:SER:O	1:A:302:LYS:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:248:ILE:O	1:C:278:MSE:HE2	2.17	0.45
1:D:151:GLU:HG2	1:D:157:VAL:CG2	2.46	0.45
1:A:253:ARG:HG3	1:A:253:ARG:HH11	1.81	0.45
1:C:151:GLU:O	1:C:180:ILE:HA	2.16	0.45
1:D:239:TRP:O	1:D:240:LEU:HD23	2.16	0.45
1:A:242:MSE:O	1:A:244:ILE:N	2.49	0.45
1:B:291:HIS:HA	1:B:292:PRO:HD2	1.84	0.45
1:C:292:PRO:C	1:C:293:LEU:HD12	2.36	0.45
1:A:133:GLY:C	1:A:135:LEU:N	2.69	0.45
1:C:149:MSE:HE2	1:C:171:TYR:CE1	2.51	0.45
1:C:151:GLU:OE1	1:C:152:ILE:N	2.49	0.45
1:D:321:LEU:HB3	1:D:322:PRO:HD2	1.98	0.45
1:B:163:PHE:C	1:B:165:PRO:HD3	2.37	0.45
1:A:154:LYS:HG2	1:A:158:ASP:OD2	2.16	0.45
1:A:163:PHE:HE1	1:C:45:PRO:HB3	1.82	0.45
1:B:240:LEU:HB2	1:B:241:HIS:CE1	2.52	0.45
1:C:152:ILE:HG12	1:C:152:ILE:O	2.17	0.45
1:C:279:LEU:HB3	1:C:289:PHE:CD1	2.52	0.45
1:B:109:MSE:HG3	1:B:265:THR:HG21	1.98	0.45
1:B:205:PRO:HB3	1:B:213:PHE:CD1	2.52	0.45
1:C:86:TYR:CD2	1:C:101:ARG:HD3	2.51	0.45
1:C:173:ASP:HB3	1:C:176:VAL:HG23	1.99	0.45
1:C:236:GLU:HG3	1:C:241:HIS:CD2	2.52	0.45
1:C:301:SER:CB	1:C:304:ASN:HD22	2.20	0.45
1:A:329:ILE:O	1:A:330:GLU:HB2	2.17	0.45
1:B:113:LEU:O	1:B:315:HIS:HE1	1.99	0.45
1:B:200:VAL:HG12	1:B:202:SER:H	1.81	0.45
1:B:223:ARG:NH2	2:B:369:HOH:O	2.50	0.45
1:A:215:LYS:HG2	1:A:255:ILE:CG1	2.46	0.45
1:B:161:LYS:HE2	2:B:412:HOH:O	2.16	0.45
1:C:215:LYS:N	1:C:216:PRO:CD	2.71	0.45
1:A:211:GLU:O	1:A:217:PHE:HB2	2.16	0.45
1:D:257:LYS:HB2	1:D:283:GLU:CB	2.39	0.45
1:A:129:GLY:HA3	1:A:171:TYR:OH	2.17	0.45
1:A:171:TYR:HE1	1:A:178:LEU:HD13	1.81	0.45
1:B:217:PHE:O	1:B:220:SER:HB3	2.17	0.45
1:D:52:SER:HB3	1:D:55:TRP:CE2	2.51	0.45
1:A:202:SER:O	1:A:234:GLN:NE2	2.49	0.45
1:A:308:LYS:O	1:D:324:PHE:HB3	2.17	0.45
1:C:328:VAL:C	1:C:330:GLU:N	2.70	0.45
1:D:138:VAL:O	1:D:141:HIS:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:235:ALA:HB2	1:D:278:MSE:HG2	1.98	0.45
1:B:239:TRP:CD2	1:C:268:PRO:HG2	2.52	0.45
1:D:99:THR:OG1	1:D:102:ASP:OD1	2.28	0.45
1:A:169:ILE:O	1:A:172:GLU:HB2	2.16	0.45
1:B:108:GLU:HG2	1:B:307:LEU:HD22	1.99	0.45
1:B:151:GLU:HG3	1:B:153:ASP:H	1.81	0.45
1:D:49:SER:HB2	1:D:51:MSE:HE2	1.99	0.45
1:B:52:SER:OG	1:B:54:MSE:SE	2.84	0.45
1:C:221:VAL:HG12	1:C:225:LEU:HD12	1.98	0.45
1:D:68:LEU:N	1:D:68:LEU:CD1	2.80	0.45
1:A:198:VAL:O	1:A:231:VAL:HG23	2.16	0.45
1:B:269:THR:O	1:B:269:THR:HG22	2.17	0.45
1:D:83:SER:OG	1:D:86:TYR:HB2	2.17	0.45
1:B:169:ILE:CG2	1:B:170:GLY:N	2.80	0.45
1:C:98:LEU:HD21	1:C:164:PHE:CE2	2.51	0.45
1:A:135:LEU:HD22	1:A:149:MSE:SE	2.67	0.45
1:B:233:THR:O	1:B:277:PHE:HA	2.17	0.45
1:C:222:ALA:HA	1:C:225:LEU:HD12	1.97	0.45
1:A:215:LYS:N	1:A:216:PRO:CD	2.79	0.45
1:B:240:LEU:HD23	1:C:101:ARG:NH2	2.31	0.45
1:D:324:PHE:CD1	1:D:324:PHE:C	2.90	0.45
1:A:236:GLU:HB3	1:A:241:HIS:NE2	2.31	0.45
1:D:65:GLU:HB3	1:D:82:GLN:O	2.16	0.45
1:C:53:PRO:O	1:C:56:PRO:HD3	2.16	0.45
1:D:171:TYR:O	1:D:173:ASP:N	2.48	0.45
1:A:54:MSE:HE1	1:A:206:ILE:HD13	1.98	0.45
1:A:215:LYS:HB2	1:A:251:ASN:ND2	2.32	0.45
1:D:111:THR:OG1	1:D:137:GLU:HB3	2.16	0.45
1:A:200:VAL:HG21	1:A:217:PHE:HZ	1.82	0.45
1:A:296:ILE:HD13	1:A:307:LEU:HD11	1.97	0.45
1:D:149:MSE:HG2	1:D:178:LEU:HD13	1.97	0.45
1:C:110:ILE:HG12	1:C:199:ILE:CG2	2.46	0.45
1:B:257:LYS:HE3	1:B:283:GLU:HB2	1.98	0.45
1:B:259:SER:O	1:B:280:CYS:HA	2.17	0.45
1:A:42:THR:HA	1:C:162:GLN:NE2	2.31	0.45
1:A:251:ASN:O	1:A:255:ILE:HG12	2.17	0.45
1:B:44:ILE:HD11	1:C:49:SER:CB	2.46	0.45
1:A:267:VAL:HG11	1:A:270:TYR:CD2	2.52	0.45
1:B:51:MSE:HA	1:B:55:TRP:HE1	1.81	0.45
1:B:109:MSE:HE2	1:B:310:TYR:HB2	1.98	0.45
1:B:240:LEU:CD2	1:B:272:SER:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:264:TRP:CZ2	1:C:322:PRO:HD3	2.52	0.45
1:D:232:CYS:HA	1:D:278:MSE:O	2.17	0.45
1:A:68:LEU:O	1:A:69:PHE:CB	2.64	0.45
1:A:82:GLN:HE22	1:A:87:GLY:HA2	1.82	0.45
1:B:324:PHE:CD1	1:B:324:PHE:C	2.90	0.45
1:A:101:ARG:NH2	1:D:239:TRP:O	2.49	0.45
1:B:225:LEU:HD22	1:B:229:GLY:HA3	1.99	0.45
1:C:54:MSE:HG3	2:C:480:HOH:O	2.15	0.45
1:A:208:PRO:C	1:A:210:LYS:H	2.20	0.45
1:A:215:LYS:HB2	1:A:251:ASN:ND2	2.32	0.45
1:A:257:LYS:NZ	2:A:566:HOH:O	2.50	0.45
1:A:329:ILE:O	1:A:329:ILE:HG22	2.16	0.45
1:B:47:TRP:HZ3	1:C:58:GLU:HA	1.81	0.45
1:C:55:TRP:HB2	1:C:240:LEU:HD13	1.97	0.45
1:D:256:PHE:HD1	1:D:282:THR:HG22	1.82	0.45
1:D:323:SER:OG	1:D:324:PHE:N	2.50	0.45
1:A:278:MSE:HE2	1:A:278:MSE:HA	1.98	0.45
1:B:136:ARG:HE	1:B:167:VAL:HA	1.82	0.45
1:C:85:THR:HG1	1:C:86:TYR:HD1	1.65	0.45
1:D:65:GLU:HB3	1:D:82:GLN:O	2.16	0.45
1:D:116:CYS:SG	1:D:296:ILE:HG13	2.56	0.45
1:B:51:MSE:SE	2:B:377:HOH:O	2.85	0.45
1:B:252:CYS:HB3	1:B:280:CYS:SG	2.57	0.45
1:A:45:PRO:HA	1:C:68:LEU:O	2.17	0.45
1:C:88:LYS:HB2	1:C:164:PHE:CE2	2.51	0.45
1:A:64:VAL:HG13	1:A:81:PHE:CD1	2.52	0.45
1:C:63:LYS:HB3	1:C:84:ALA:HB3	1.98	0.45
1:C:136:ARG:NH1	1:C:166:ASP:O	2.49	0.45
1:D:54:MSE:HE2	1:D:204:ASP:OD1	2.17	0.45
1:D:164:PHE:O	1:D:167:VAL:HG22	2.16	0.45
1:A:131:ASP:O	1:A:167:VAL:HG12	2.17	0.45
1:B:190:ALA:O	1:B:191:ALA:C	2.55	0.45
1:B:237:SER:HA	2:B:355:HOH:O	2.15	0.45
1:C:221:VAL:CG1	1:C:231:VAL:HG21	2.47	0.45
1:D:226:ARG:HG2	1:D:227:PRO:N	2.32	0.45
1:D:236:GLU:CB	1:D:241:HIS:HB2	2.44	0.45
1:A:98:LEU:HD12	1:A:98:LEU:C	2.37	0.45
1:A:231:VAL:CG1	1:A:280:CYS:HB2	2.46	0.45
1:A:267:VAL:HB	1:A:270:TYR:HD2	1.82	0.45
1:B:89:VAL:HG13	1:B:99:THR:HG22	1.97	0.45
1:D:231:VAL:HG21	1:D:256:PHE:CZ	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:SER:HB3	1:A:55:TRP:CE2	2.52	0.45
1:B:44:ILE:HG21	1:C:51:MSE:CE	2.47	0.45
1:C:154:LYS:O	1:C:154:LYS:HG2	2.17	0.45
1:A:57:GLY:O	1:D:62:LEU:HA	2.17	0.45
1:C:283:GLU:N	1:C:283:GLU:OE1	2.48	0.45
1:A:70:GLN:HG3	1:A:79:ILE:HG12	1.98	0.45
1:A:123:LYS:HG2	1:A:195:TYR:CD1	2.52	0.45
1:B:69:PHE:HB3	1:B:80:VAL:HB	1.98	0.45
1:B:324:PHE:CD1	1:B:324:PHE:C	2.91	0.45
1:A:68:LEU:CD2	1:A:88:LYS:HZ3	2.29	0.45
1:A:73:SER:HA	1:A:155:MSE:SE	2.67	0.45
1:B:169:ILE:O	1:B:169:ILE:HG13	2.16	0.45
1:B:271:PRO:HG2	2:B:348:HOH:O	2.16	0.45
1:C:225:LEU:HD11	1:C:231:VAL:CG2	2.47	0.45
1:D:313:GLU:CD	1:D:313:GLU:H	2.19	0.45
1:A:298:GLU:C	1:A:300:SER:H	2.20	0.45
1:A:171:TYR:CD1	1:A:178:LEU:HD22	2.52	0.45
1:A:255:ILE:HG22	1:A:256:PHE:N	2.31	0.45
1:B:167:VAL:C	1:B:169:ILE:N	2.70	0.45
1:B:267:VAL:HG11	1:B:270:TYR:CD2	2.50	0.45
1:A:54:MSE:HE2	1:A:54:MSE:HA	1.99	0.45
1:A:238:LEU:CA	1:A:242:MSE:HE3	2.42	0.45
1:C:125:LEU:HB2	1:C:195:TYR:CZ	2.52	0.45
1:B:173:ASP:O	1:B:175:ARG:N	2.50	0.45
1:C:238:LEU:O	1:C:242:MSE:HE3	2.17	0.45
1:A:66:LYS:HB2	1:A:66:LYS:NZ	2.32	0.45
1:B:87:GLY:HA3	1:B:100:GLU:HB2	1.99	0.45
1:A:55:TRP:CB	1:A:240:LEU:HD13	2.47	0.45
1:C:225:LEU:HD11	1:C:231:VAL:HG22	1.99	0.45
1:B:49:SER:HA	1:B:61:SER:HA	1.99	0.45
1:B:50:GLU:CA	1:B:51:MSE:HE2	2.46	0.45
1:B:135:LEU:HD23	1:B:135:LEU:HA	1.81	0.45
1:D:157:VAL:O	1:D:161:LYS:HG3	2.17	0.45
1:B:328:VAL:C	1:B:330:GLU:H	2.21	0.45
1:B:50:GLU:C	1:B:51:MSE:HG3	2.37	0.45
1:B:79:ILE:HD12	1:B:79:ILE:H	1.81	0.45
1:B:108:GLU:HG2	1:B:137:GLU:CD	2.38	0.45
1:B:204:ASP:O	1:B:206:ILE:N	2.50	0.45
1:B:125:LEU:HB2	1:B:195:TYR:CE1	2.52	0.44
1:B:244:ILE:HG13	2:B:433:HOH:O	2.17	0.44
1:B:259:SER:O	1:B:280:CYS:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:125:LEU:CD2	1:C:187:LEU:HD13	2.47	0.44
2:A:376:HOH:O	1:D:327:LYS:HD3	2.17	0.44
1:B:119:PRO:O	1:B:120:ASN:C	2.54	0.44
1:B:157:VAL:HG13	1:B:171:TYR:CZ	2.52	0.44
1:B:309:PHE:CE1	1:C:322:PRO:HB3	2.52	0.44
1:D:99:THR:OG1	1:D:102:ASP:OD1	2.30	0.44
1:A:132:GLY:C	1:A:135:LEU:HD13	2.36	0.44
1:A:144:ILE:HG22	1:A:175:ARG:HD2	1.98	0.44
1:B:288:ASP:HB3	2:B:395:HOH:O	2.16	0.44
1:C:184:VAL:HG12	1:C:212:LEU:CD2	2.46	0.44
1:C:238:LEU:HD11	1:C:321:LEU:HD22	1.98	0.44
1:B:206:ILE:HG23	1:B:207:GLY:N	2.32	0.44
1:A:51:MSE:HE3	1:D:44:ILE:CD1	2.47	0.44
1:A:197:ALA:HA	1:A:230:VAL:O	2.16	0.44
1:C:107:GLN:HG2	1:C:133:GLY:O	2.17	0.44
1:C:137:GLU:OE1	1:C:140:ARG:NE	2.50	0.44
1:A:79:ILE:HG22	1:A:80:VAL:N	2.31	0.44
1:B:69:PHE:HB2	1:B:163:PHE:CE2	2.52	0.44
1:B:169:ILE:HD12	1:B:172:GLU:HB2	1.99	0.44
1:C:324:PHE:CD1	1:C:325:ALA:N	2.85	0.44
1:D:135:LEU:HD22	1:D:147:ILE:HG21	1.98	0.44
1:B:275:ILE:HA	1:B:275:ILE:HD12	1.74	0.44
1:C:46:GLY:HA3	1:C:63:LYS:NZ	2.33	0.44
1:D:271:PRO:O	1:D:272:SER:OG	2.27	0.44
1:A:46:GLY:O	1:A:63:LYS:HD2	2.17	0.44
1:A:293:LEU:HD23	1:A:293:LEU:C	2.38	0.44
1:C:223:ARG:HA	2:C:477:HOH:O	2.16	0.44
1:B:51:MSE:SE	2:C:530:HOH:O	2.85	0.44
1:B:123:LYS:HZ3	1:B:146:GLN:NE2	2.15	0.44
1:B:132:GLY:O	1:B:135:LEU:HB2	2.18	0.44
1:C:82:GLN:HE22	1:C:88:LYS:N	2.15	0.44
1:D:129:GLY:CA	1:D:156:VAL:HG11	2.48	0.44
1:A:248:ILE:CG2	1:A:278:MSE:HG3	2.48	0.44
1:C:258:GLY:HA3	1:C:281:SER:OG	2.17	0.44
1:D:202:SER:HB2	1:D:213:PHE:CE1	2.51	0.44
1:B:61:SER:O	1:C:59:ALA:N	2.45	0.44
1:B:205:PRO:HB2	1:B:210:LYS:HG3	1.98	0.44
1:B:234:GLN:HE22	1:B:236:GLU:CA	2.30	0.44
1:B:310:TYR:CD1	1:B:310:TYR:C	2.90	0.44
1:C:214:GLU:CB	1:C:216:PRO:HD2	2.42	0.44
1:C:283:GLU:CD	1:C:283:GLU:N	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:297:ASP:HB3	2:C:350:HOH:O	2.17	0.44
1:D:69:PHE:HZ	1:D:155:MSE:SE	2.50	0.44
1:C:241:HIS:HB3	1:C:244:ILE:HB	1.98	0.44
1:B:233:THR:O	1:B:277:PHE:HA	2.17	0.44
1:D:238:LEU:HD22	1:D:325:ALA:CB	2.39	0.44
1:A:288:ASP:CG	1:A:291:HIS:HD1	2.21	0.44
1:B:173:ASP:HB3	1:B:176:VAL:CG2	2.42	0.44
1:D:90:LEU:HB3	1:D:98:LEU:HG	1.98	0.44
1:D:141:HIS:O	1:D:144:ILE:HG12	2.18	0.44
1:A:98:LEU:HD22	1:A:103:GLU:OE1	2.17	0.44
1:A:324:PHE:CD1	1:A:325:ALA:N	2.86	0.44
1:B:205:PRO:HB3	1:B:213:PHE:CE1	2.52	0.44
1:D:169:ILE:HG23	1:D:170:GLY:N	2.33	0.44
1:A:83:SER:O	1:A:84:ALA:C	2.56	0.44
1:A:99:THR:O	1:A:103:GLU:HB3	2.17	0.44
1:B:191:ALA:O	1:B:223:ARG:NH2	2.50	0.44
1:B:296:ILE:HD12	1:B:307:LEU:HD11	2.00	0.44
1:C:140:ARG:NH2	1:C:304:ASN:HB2	2.32	0.44
1:A:135:LEU:H	1:A:135:LEU:CD1	2.28	0.44
1:B:70:GLN:HA	1:B:79:ILE:HG12	2.00	0.44
1:A:43:VAL:HG12	1:A:44:ILE:N	2.32	0.44
1:C:50:GLU:C	1:C:51:MSE:SE	3.05	0.44
1:C:99:THR:HG22	1:C:102:ASP:OD1	2.17	0.44
1:C:198:VAL:HG23	1:C:225:LEU:HD21	1.98	0.44
1:C:233:THR:OG1	1:C:278:MSE:HB2	2.16	0.44
1:A:70:GLN:HE22	1:C:79:ILE:HD13	1.82	0.44
1:A:329:ILE:O	1:A:330:GLU:HB2	2.17	0.44
1:C:68:LEU:CD1	1:C:88:LYS:HD3	2.47	0.44
1:C:296:ILE:HG22	2:C:344:HOH:O	2.16	0.44
1:A:108:GLU:HB3	1:A:112:HIS:HD2	1.82	0.44
1:A:129:GLY:C	1:A:131:ASP:N	2.71	0.44
1:A:298:GLU:C	1:A:300:SER:N	2.70	0.44
1:C:76:GLN:OE1	1:C:92:LEU:HD13	2.16	0.44
1:C:123:LYS:HD3	1:C:194:SER:O	2.17	0.44
1:C:165:PRO:HG2	2:C:452:HOH:O	2.18	0.44
1:C:328:VAL:O	1:C:330:GLU:N	2.51	0.44
1:D:118:ILE:HG13	1:D:121:PRO:HD3	2.00	0.44
1:C:259:SER:O	1:C:280:CYS:HA	2.17	0.44
1:D:245:ILE:O	1:D:249:VAL:HG23	2.17	0.44
1:A:98:LEU:HD12	1:A:98:LEU:C	2.37	0.44
1:A:243:ASP:OD2	1:A:244:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:70:GLN:HE21	1:C:70:GLN:HB2	1.65	0.44
1:C:230:VAL:HA	1:C:280:CYS:O	2.17	0.44
1:D:310:TYR:CG	1:D:311:ASN:N	2.86	0.44
1:A:72:LYS:HB3	1:C:51:MSE:HB2	2.00	0.44
1:B:214:GLU:HB2	2:B:429:HOH:O	2.17	0.44
1:C:193:GLY:N	1:C:224:ALA:HA	2.27	0.44
1:D:91:VAL:HG13	1:D:95:VAL:C	2.38	0.44
1:D:125:LEU:HD12	1:D:126:VAL:N	2.32	0.44
1:B:189:ASN:ND2	2:B:347:HOH:O	2.45	0.44
1:C:236:GLU:HG3	1:C:241:HIS:NE2	2.33	0.44
1:D:264:TRP:CZ2	1:D:322:PRO:HD3	2.52	0.44
1:A:68:LEU:HD22	1:A:88:LYS:NZ	2.32	0.44
1:A:73:SER:HA	1:A:155:MSE:HE3	2.00	0.44
1:A:78:VAL:HG12	1:A:80:VAL:HG22	2.00	0.44
1:A:119:PRO:HD3	1:A:293:LEU:CD2	2.48	0.44
1:A:241:HIS:HB3	1:A:244:ILE:HD12	1.98	0.44
1:C:80:VAL:HG21	1:C:159:VAL:CG1	2.47	0.44
1:C:164:PHE:HA	1:C:165:PRO:HD2	1.88	0.44
1:D:151:GLU:OE1	1:D:152:ILE:N	2.41	0.44
1:A:78:VAL:HG12	1:A:79:ILE:N	2.33	0.44
1:A:122:LYS:HE2	1:A:145:GLU:HG3	2.00	0.44
1:A:252:CYS:CB	1:A:278:MSE:SE	3.15	0.44
1:B:238:LEU:HD23	1:B:245:ILE:HD13	1.98	0.44
1:C:200:VAL:CB	1:C:233:THR:HG22	2.39	0.44
1:D:182:ASP:CG	1:D:183:GLY:H	2.21	0.44
1:D:236:GLU:HB3	2:D:413:HOH:O	2.18	0.44
1:C:296:ILE:HG23	1:C:300:SER:CB	2.41	0.44
1:B:149:MSE:O	1:B:179:VAL:HB	2.18	0.44
1:C:63:LYS:O	1:C:63:LYS:HG3	2.16	0.44
1:A:124:VAL:O	1:A:147:ILE:HA	2.17	0.44
1:B:231:VAL:HG22	1:B:232:CYS:H	1.81	0.44
1:B:314:ILE:HG13	1:C:322:PRO:HA	2.00	0.44
1:C:86:TYR:O	1:C:99:THR:HG22	2.17	0.44
1:A:171:TYR:HA	1:A:176:VAL:HG11	2.00	0.44
1:C:75:TYR:O	1:C:76:GLN:HB3	2.16	0.44
1:D:103:GLU:HG2	2:D:345:HOH:O	2.18	0.44
1:D:248:ILE:HG22	1:D:278:MSE:HG3	2.00	0.44
1:A:123:LYS:HD3	1:A:194:SER:O	2.16	0.44
1:A:202:SER:HB2	1:A:213:PHE:CE1	2.53	0.44
1:B:125:LEU:HD12	1:B:126:VAL:H	1.83	0.44
1:A:76:GLN:HG2	1:A:153:ASP:OD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:LYS:O	1:A:330:GLU:N	2.51	0.44
1:A:43:VAL:CG1	1:A:44:ILE:N	2.80	0.44
1:A:267:VAL:HG11	1:A:270:TYR:CE2	2.53	0.44
1:C:164:PHE:HA	1:C:165:PRO:HD2	1.81	0.44
1:D:43:VAL:C	1:D:44:ILE:HG13	2.37	0.44
1:D:69:PHE:CD2	1:D:70:GLN:N	2.86	0.44
1:D:76:GLN:HB2	1:D:93:ASP:OD1	2.17	0.44
1:D:161:LYS:HE2	2:D:357:HOH:O	2.16	0.44
1:D:228:GLY:CA	1:D:285:PRO:HD2	2.47	0.44
1:A:51:MSE:SE	1:C:72:LYS:H	2.51	0.44
1:B:113:LEU:CD2	1:B:279:LEU:HD21	2.39	0.44
1:C:297:ASP:OD1	1:C:298:GLU:N	2.51	0.44
1:D:60:HIS:CE1	1:D:271:PRO:HA	2.52	0.44
1:A:238:LEU:HD23	1:A:242:MSE:HE1	1.99	0.44
1:B:223:ARG:HD2	2:B:483:HOH:O	2.17	0.44
1:C:187:LEU:HD21	1:C:221:VAL:HG22	1.99	0.44
1:C:301:SER:HB3	1:C:304:ASN:HB2	1.98	0.44
1:C:238:LEU:HD21	1:C:262:TYR:CE2	2.52	0.44
1:D:44:ILE:HG23	1:D:45:PRO:HD2	1.99	0.44
1:A:90:LEU:HD21	1:A:92:LEU:HG	1.99	0.44
1:A:157:VAL:CG1	1:A:161:LYS:HE3	2.47	0.44
1:B:75:TYR:CE2	1:B:152:ILE:HG13	2.52	0.44
1:B:114:PRO:HB3	1:B:232:CYS:HB2	1.98	0.44
1:B:149:MSE:HE2	1:B:171:TYR:CE1	2.53	0.44
1:C:165:PRO:HD2	2:C:452:HOH:O	2.17	0.44
1:C:249:VAL:HG22	1:C:278:MSE:SE	2.68	0.44
1:A:301:SER:HB3	1:A:304:ASN:CG	2.37	0.44
1:C:257:LYS:HA	1:C:257:LYS:HD2	1.81	0.44
1:C:310:TYR:CD1	1:C:311:ASN:N	2.85	0.44
1:D:60:HIS:CD2	2:D:362:HOH:O	2.71	0.44
1:D:98:LEU:HD11	1:D:164:PHE:CE2	2.53	0.44
1:B:122:LYS:O	1:B:144:ILE:HG23	2.17	0.44
1:B:168:ALA:C	1:B:170:GLY:N	2.69	0.44
1:B:218:PHE:O	1:B:255:ILE:HG21	2.17	0.44
1:D:240:LEU:HD11	1:D:271:PRO:HB2	2.00	0.44
1:A:107:GLN:HG2	1:A:134:VAL:N	2.32	0.44
1:C:112:HIS:CE1	1:C:141:HIS:HE2	2.36	0.44
1:C:234:GLN:OE1	1:C:236:GLU:N	2.49	0.44
1:D:271:PRO:O	1:D:272:SER:CB	2.65	0.44
1:A:154:LYS:HG2	1:A:158:ASP:OD2	2.17	0.44
1:C:86:TYR:CD2	1:C:101:ARG:HD3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:165:PRO:HG2	1:C:166:ASP:H	1.81	0.44
1:C:245:ILE:O	1:C:249:VAL:HG23	2.18	0.44
1:C:310:TYR:CD1	1:C:311:ASN:N	2.85	0.44
1:A:104:CYS:O	1:A:108:GLU:HB2	2.17	0.44
1:A:64:VAL:HG11	1:C:67:VAL:HG21	1.99	0.44
1:A:81:PHE:O	1:A:88:LYS:HA	2.17	0.44
1:B:78:VAL:O	1:B:79:ILE:HG13	2.17	0.44
1:C:200:VAL:CB	1:C:233:THR:HG22	2.47	0.44
1:D:60:HIS:CG	2:D:360:HOH:O	2.71	0.44
1:D:116:CYS:SG	1:D:296:ILE:HG13	2.58	0.44
1:D:164:PHE:HB2	1:D:167:VAL:CG2	2.48	0.44
1:A:108:GLU:OE1	1:A:309:PHE:HB3	2.17	0.44
1:B:231:VAL:CG2	1:B:232:CYS:H	2.31	0.44
1:C:60:HIS:HE2	1:C:271:PRO:HA	1.82	0.44
1:C:86:TYR:HB3	1:C:99:THR:HG23	2.00	0.44
1:C:136:ARG:CZ	1:C:167:VAL:HG13	2.47	0.44
1:C:238:LEU:HD23	1:C:245:ILE:HD13	1.99	0.44
1:C:145:GLU:HG2	2:C:463:HOH:O	2.17	0.44
1:D:210:LYS:O	1:D:214:GLU:HG3	2.17	0.44
1:D:109:MSE:CE	1:D:265:THR:OG1	2.66	0.44
1:A:130:GLY:HA3	1:A:151:GLU:HG2	1.98	0.44
1:A:140:ARG:CD	1:A:296:ILE:HG21	2.48	0.44
1:A:238:LEU:CD1	1:A:322:PRO:HD2	2.48	0.44
1:C:193:GLY:HA2	1:C:225:LEU:C	2.38	0.44
1:D:162:GLN:NE2	2:D:389:HOH:O	2.50	0.44
1:A:245:ILE:O	1:A:248:ILE:HB	2.18	0.44
1:B:190:ALA:O	1:B:223:ARG:NH2	2.50	0.44
1:B:222:ALA:HB2	1:B:256:PHE:CE1	2.52	0.44
1:C:104:CYS:O	1:C:108:GLU:HG3	2.18	0.44
1:C:210:LYS:HE2	2:C:396:HOH:O	2.17	0.44
1:D:60:HIS:CE1	1:D:271:PRO:HA	2.52	0.44
1:A:311:ASN:CG	1:A:314:ILE:HD13	2.37	0.44
1:A:324:PHE:CE1	1:A:325:ALA:HB2	2.52	0.44
1:D:109:MSE:HG2	1:D:265:THR:HB	2.00	0.44
1:D:109:MSE:SE	1:D:309:PHE:HD2	2.51	0.44
1:A:125:LEU:HD12	1:A:148:ASP:OD2	2.17	0.44
1:D:200:VAL:HB	1:D:233:THR:CB	2.48	0.44
1:C:141:HIS:HB2	1:C:144:ILE:CG1	2.48	0.44
1:C:230:VAL:HG11	1:C:287:VAL:HG11	1.99	0.44
1:D:187:LEU:HD21	1:D:221:VAL:HG22	1.99	0.44
1:A:110:ILE:HG13	1:A:277:PHE:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:GLN:HE22	1:A:275:ILE:CD1	2.26	0.44
1:B:206:ILE:HG23	1:B:207:GLY:N	2.33	0.44
1:C:287:VAL:HG11	1:C:289:PHE:CZ	2.52	0.44
1:D:138:VAL:C	1:D:140:ARG:H	2.21	0.44
1:A:73:SER:CA	1:A:155:MSE:SE	3.16	0.44
1:A:328:VAL:C	1:A:330:GLU:H	2.21	0.44
1:C:130:GLY:HA2	1:C:156:VAL:HG11	1.99	0.44
1:C:222:ALA:O	1:C:225:LEU:HB2	2.18	0.44
1:D:271:PRO:O	1:D:272:SER:CB	2.65	0.44
1:A:142:ALA:HB3	2:A:417:HOH:O	2.18	0.44
1:A:237:SER:H	1:A:241:HIS:HD2	1.66	0.44
1:C:328:VAL:C	1:C:330:GLU:H	2.20	0.44
1:D:245:ILE:O	1:D:249:VAL:HG23	2.18	0.44
1:A:115:LEU:C	1:A:117:SER:H	2.21	0.44
1:B:149:MSE:O	1:B:178:LEU:HA	2.18	0.44
1:B:238:LEU:O	1:B:242:MSE:SE	2.86	0.44
1:D:198:VAL:HG23	1:D:225:LEU:CD2	2.44	0.44
1:A:122:LYS:HE2	1:A:145:GLU:CD	2.39	0.44
1:A:202:SER:O	1:A:234:GLN:NE2	2.51	0.44
1:B:155:MSE:HE1	2:B:454:HOH:O	2.17	0.44
1:B:259:SER:O	1:B:281:SER:N	2.48	0.44
1:D:196:ASP:OD1	1:D:226:ARG:HD2	2.18	0.44
1:D:113:LEU:HA	1:D:315:HIS:CE1	2.52	0.44
1:B:164:PHE:HB2	1:B:167:VAL:HG22	1.99	0.44
1:A:59:ALA:HB3	1:D:61:SER:HB2	2.00	0.44
1:A:122:LYS:HG2	1:A:145:GLU:CD	2.39	0.44
1:B:184:VAL:O	1:B:188:LYS:HB2	2.17	0.44
1:D:44:ILE:HG23	1:D:45:PRO:HD2	1.99	0.44
1:A:50:GLU:C	1:A:51:MSE:SE	3.06	0.44
1:B:130:GLY:HA3	1:B:156:VAL:HG12	1.99	0.44
1:A:238:LEU:O	1:A:242:MSE:HG2	2.18	0.44
1:A:312:ALA:O	1:A:315:HIS:HB3	2.18	0.44
1:B:264:TRP:CZ3	1:B:274:VAL:HG11	2.52	0.44
1:C:275:ILE:HG13	1:C:276:GLY:N	2.32	0.44
1:D:114:PRO:HG2	1:D:115:LEU:H	1.83	0.44
1:D:164:PHE:HB2	1:D:167:VAL:CG2	2.48	0.44
1:A:129:GLY:O	1:A:131:ASP:N	2.51	0.44
1:B:99:THR:O	1:B:103:GLU:HG3	2.18	0.44
1:B:162:GLN:NE2	2:B:364:HOH:O	2.43	0.44
1:C:173:ASP:HB3	1:C:176:VAL:HG23	2.00	0.44
1:C:275:ILE:HD12	1:C:275:ILE:HA	1.88	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:68:LEU:HB3	1:D:163:PHE:CE1	2.53	0.44
1:A:186:PHE:O	1:A:190:ALA:HB2	2.18	0.44
1:A:270:TYR:HD2	1:A:275:ILE:HB	1.82	0.44
1:A:293:LEU:HD23	1:A:293:LEU:C	2.38	0.44
1:B:125:LEU:O	1:B:198:VAL:HA	2.18	0.44
1:B:163:PHE:C	1:B:164:PHE:HD2	2.20	0.44
1:B:165:PRO:C	1:B:167:VAL:H	2.21	0.44
1:B:278:MSE:O	1:B:279:LEU:O	2.35	0.44
1:B:307:LEU:HD13	1:B:310:TYR:CD1	2.51	0.44
1:D:125:LEU:HB2	1:D:195:TYR:CE1	2.52	0.44
1:D:248:ILE:CG2	1:D:278:MSE:HG3	2.48	0.44
1:A:97:GLN:O	1:A:98:LEU:HB3	2.18	0.43
1:D:323:SER:O	1:D:324:PHE:C	2.54	0.43
1:A:215:LYS:N	1:A:216:PRO:CD	2.81	0.43
1:A:129:GLY:C	1:A:131:ASP:N	2.72	0.43
1:B:49:SER:HA	1:B:61:SER:HA	1.98	0.43
1:B:130:GLY:HA3	1:B:151:GLU:CG	2.48	0.43
1:B:152:ILE:CG1	1:B:182:ASP:HA	2.47	0.43
1:C:79:ILE:HG22	1:C:80:VAL:N	2.33	0.43
1:C:193:GLY:HA2	1:C:226:ARG:N	2.33	0.43
1:C:266:SER:O	1:C:268:PRO:HD3	2.17	0.43
1:D:69:PHE:HE2	1:D:78:VAL:HB	1.82	0.43
1:A:155:MSE:HG2	2:A:344:HOH:O	2.18	0.43
1:A:264:TRP:CD1	1:A:321:LEU:HD23	2.53	0.43
1:B:51:MSE:CE	1:C:44:ILE:HD12	2.38	0.43
1:C:149:MSE:O	1:C:178:LEU:HD12	2.18	0.43
1:C:171:TYR:CD1	1:C:178:LEU:HD22	2.52	0.43
1:D:93:ASP:N	2:D:352:HOH:O	2.50	0.43
1:B:237:SER:HA	2:B:356:HOH:O	2.17	0.43
1:C:111:THR:O	1:C:115:LEU:HG	2.18	0.43
1:D:108:GLU:HB3	1:D:310:TYR:HB2	1.99	0.43
1:B:51:MSE:HE2	1:B:51:MSE:N	2.33	0.43
1:D:132:GLY:HA3	1:D:167:VAL:O	2.18	0.43
1:A:182:ASP:CG	2:A:354:HOH:O	2.56	0.43
1:C:86:TYR:CD2	1:C:99:THR:HG21	2.51	0.43
1:C:329:ILE:O	1:C:329:ILE:HG22	2.17	0.43
1:D:91:VAL:HG13	1:D:95:VAL:O	2.17	0.43
1:A:91:VAL:HG12	1:A:92:LEU:N	2.33	0.43
1:C:226:ARG:HB2	1:C:227:PRO:HD3	2.00	0.43
1:D:233:THR:HG22	1:D:234:GLN:O	2.18	0.43
1:C:159:VAL:HG13	1:C:163:PHE:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:114:PRO:HB3	1:D:232:CYS:HB2	2.00	0.43
1:D:271:PRO:O	1:D:272:SER:OG	2.29	0.43
1:A:103:GLU:HG3	1:A:104:CYS:N	2.33	0.43
1:A:164:PHE:HB2	1:A:167:VAL:HB	2.00	0.43
1:C:173:ASP:HA	1:C:174:PRO:HD3	1.91	0.43
1:B:200:VAL:HG21	1:B:217:PHE:HZ	1.84	0.43
1:B:223:ARG:NH1	1:B:223:ARG:CG	2.81	0.43
1:C:154:LYS:HD2	1:C:180:ILE:HG12	1.99	0.43
1:C:221:VAL:HG11	1:C:231:VAL:HG11	1.99	0.43
1:A:126:VAL:HG11	1:A:149:MSE:HE1	2.00	0.43
1:C:62:LEU:HD12	1:C:89:VAL:HG21	2.00	0.43
1:D:111:THR:OG1	1:D:112:HIS:N	2.51	0.43
1:D:264:TRP:CZ3	1:D:274:VAL:HG11	2.52	0.43
1:D:321:LEU:HD13	1:D:329:ILE:HD12	2.00	0.43
1:A:134:VAL:O	1:A:138:VAL:HG23	2.18	0.43
1:B:58:GLU:HA	1:C:61:SER:O	2.17	0.43
1:B:131:ASP:HA	1:B:160:SER:HB3	1.99	0.43
1:A:184:VAL:HG23	1:A:185:ALA:N	2.33	0.43
1:A:191:ALA:O	1:A:192:GLU:C	2.56	0.43
1:A:296:ILE:CG2	1:A:297:ASP:N	2.81	0.43
1:B:111:THR:HG23	1:B:138:VAL:HG22	2.00	0.43
1:B:266:SER:O	1:B:268:PRO:HD3	2.18	0.43
2:B:487:HOH:O	1:C:274:VAL:HG13	2.17	0.43
1:C:122:LYS:HB3	1:C:145:GLU:HG3	2.00	0.43
1:C:225:LEU:HD22	1:C:229:GLY:HA3	2.00	0.43
1:B:48:PHE:HE2	1:B:96:ILE:HD11	1.82	0.43
1:B:169:ILE:HG23	1:B:170:GLY:N	2.33	0.43
1:D:279:LEU:HD12	1:D:289:PHE:CE1	2.53	0.43
1:A:239:TRP:HD1	1:A:274:VAL:CG2	2.29	0.43
1:D:139:ALA:HB1	1:D:175:ARG:HH22	1.82	0.43
1:A:168:ALA:HA	1:A:171:TYR:CE2	2.53	0.43
1:A:191:ALA:HB3	1:A:194:SER:HB3	2.00	0.43
1:A:214:GLU:HB3	1:A:216:PRO:HD2	2.00	0.43
1:A:313:GLU:HB2	1:D:326:LYS:HZ1	1.83	0.43
1:B:69:PHE:HB3	1:B:80:VAL:HB	2.00	0.43
1:B:103:GLU:O	1:B:107:GLN:HG3	2.18	0.43
1:B:181:GLY:O	1:B:182:ASP:C	2.56	0.43
1:B:236:GLU:HB3	1:B:241:HIS:CE1	2.53	0.43
1:D:271:PRO:O	1:D:272:SER:OG	2.29	0.43
1:A:226:ARG:HB2	1:A:227:PRO:HD2	1.99	0.43
1:B:111:THR:O	1:B:115:LEU:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:LEU:HB2	1:C:80:VAL:O	2.17	0.43
1:C:221:VAL:HG12	1:C:225:LEU:HD12	2.00	0.43
1:C:264:TRP:HA	1:C:276:GLY:HA2	2.00	0.43
1:C:274:VAL:HG13	2:C:396:HOH:O	2.18	0.43
1:C:289:PHE:HB3	1:C:319:PHE:CZ	2.54	0.43
1:D:68:LEU:HD21	1:D:88:LYS:HZ3	1.82	0.43
1:D:82:GLN:NE2	1:D:83:SER:O	2.47	0.43
1:A:86:TYR:O	1:A:99:THR:HG23	2.18	0.43
1:C:245:ILE:HA	1:C:248:ILE:HD12	2.00	0.43
1:A:66:LYS:HG2	1:A:67:VAL:N	2.33	0.43
1:D:136:ARG:HG2	1:D:136:ARG:HH11	1.83	0.43
1:A:46:GLY:O	1:A:63:LYS:HD2	2.18	0.43
1:A:91:VAL:O	1:A:92:LEU:HD23	2.17	0.43
1:D:244:ILE:O	1:D:248:ILE:HG13	2.18	0.43
1:C:176:VAL:HG12	1:C:177:ASN:N	2.32	0.43
1:D:149:MSE:HG2	1:D:178:LEU:HD13	1.99	0.43
1:A:178:LEU:HD12	1:A:179:VAL:N	2.30	0.43
1:A:197:ALA:HA	1:A:230:VAL:O	2.18	0.43
1:B:289:PHE:HB3	1:B:319:PHE:CZ	2.54	0.43
1:C:324:PHE:CD1	1:C:324:PHE:O	2.71	0.43
1:A:301:SER:O	1:A:304:ASN:N	2.46	0.43
1:B:99:THR:HG23	1:B:269:THR:HG21	2.01	0.43
1:B:212:LEU:HD22	1:B:217:PHE:CZ	2.53	0.43
1:A:323:SER:HB2	1:D:308:LYS:O	2.18	0.43
1:C:200:VAL:CB	1:C:233:THR:HG22	2.45	0.43
1:C:242:MSE:HE1	1:C:329:ILE:CD1	2.44	0.43
1:D:59:ALA:C	1:D:61:SER:H	2.20	0.43
1:D:145:GLU:O	1:D:175:ARG:HG2	2.18	0.43
1:D:248:ILE:CG2	1:D:278:MSE:HG3	2.48	0.43
1:A:68:LEU:H	1:A:81:PHE:HA	1.83	0.43
1:A:110:ILE:HG23	1:A:111:THR:N	2.33	0.43
1:C:123:LYS:HD2	2:C:479:HOH:O	2.18	0.43
1:C:310:TYR:CD1	1:C:311:ASN:N	2.86	0.43
1:D:191:ALA:HB3	1:D:194:SER:HB3	1.99	0.43
1:B:115:LEU:C	1:B:117:SER:H	2.22	0.43
1:A:67:VAL:CG2	1:C:64:VAL:HG11	2.39	0.43
1:A:258:GLY:HA3	1:A:281:SER:OG	2.17	0.43
1:A:234:GLN:HA	1:A:277:PHE:CD1	2.53	0.43
1:D:311:ASN:O	1:D:312:ALA:C	2.56	0.43
1:A:123:LYS:HG2	1:A:195:TYR:CD1	2.53	0.43
1:A:242:MSE:HE2	1:A:245:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:179:VAL:HG21	1:B:186:PHE:HE2	1.84	0.43
1:B:228:GLY:N	1:B:285:PRO:HD2	2.33	0.43
1:C:135:LEU:HD12	1:C:135:LEU:HA	1.88	0.43
1:C:164:PHE:HA	1:C:165:PRO:HD2	1.84	0.43
1:A:44:ILE:O	1:A:45:PRO:O	2.36	0.43
1:A:231:VAL:CG1	1:A:280:CYS:HB2	2.48	0.43
1:C:123:LYS:NZ	1:C:146:GLN:HG2	2.33	0.43
1:C:173:ASP:O	1:C:176:VAL:HG23	2.18	0.43
1:D:328:VAL:HG13	2:D:411:HOH:O	2.18	0.43
1:A:45:PRO:HA	1:C:68:LEU:O	2.18	0.43
1:D:148:ASP:OD2	1:D:195:TYR:HE1	2.01	0.43
1:A:262:TYR:OH	1:A:276:GLY:HA3	2.19	0.43
1:B:113:LEU:N	1:B:114:PRO:HD2	2.33	0.43
1:C:117:SER:O	1:C:118:ILE:HG23	2.18	0.43
1:D:106:TYR:CD1	1:D:275:ILE:HG21	2.54	0.43
1:D:311:ASN:OD1	1:D:312:ALA:N	2.51	0.43
1:A:113:LEU:N	1:A:114:PRO:CD	2.80	0.43
1:B:118:ILE:HG21	1:B:230:VAL:HG13	2.00	0.43
1:C:131:ASP:HB2	1:C:167:VAL:CG1	2.48	0.43
1:D:99:THR:CG2	1:D:269:THR:HG21	2.42	0.43
1:D:233:THR:O	1:D:277:PHE:HA	2.18	0.43
1:A:211:GLU:C	1:A:213:PHE:H	2.22	0.43
1:A:296:ILE:HG23	1:A:300:SER:HB2	2.00	0.43
1:C:140:ARG:NH1	1:C:301:SER:HB2	2.33	0.43
1:C:294:ASN:CG	1:C:294:ASN:O	2.55	0.43
1:D:278:MSE:HE2	1:D:278:MSE:HA	2.01	0.43
1:B:43:VAL:C	1:B:44:ILE:HG13	2.39	0.43
1:A:98:LEU:HD12	1:A:98:LEU:O	2.17	0.43
1:B:53:PRO:HD3	2:B:379:HOH:O	2.19	0.43
1:B:141:HIS:CE1	1:B:296:ILE:HD11	2.53	0.43
1:B:135:LEU:HD11	1:B:149:MSE:CG	2.42	0.43
1:C:152:ILE:HG23	1:C:153:ASP:N	2.34	0.43
1:A:86:TYR:HD2	1:A:99:THR:HG21	1.83	0.43
1:B:109:MSE:HG2	1:B:310:TYR:HB2	2.01	0.43
1:A:50:GLU:OE1	1:A:95:VAL:HA	2.18	0.43
1:C:103:GLU:O	1:C:107:GLN:HG3	2.18	0.43
1:A:252:CYS:HB3	1:A:280:CYS:HG	1.77	0.43
1:A:299:SER:C	1:A:301:SER:H	2.21	0.43
1:C:266:SER:O	1:C:267:VAL:HG23	2.18	0.43
1:D:69:PHE:O	1:D:79:ILE:HA	2.17	0.43
1:D:324:PHE:CD1	1:D:324:PHE:C	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:PRO:C	1:A:285:PRO:HD2	2.39	0.43
1:A:281:SER:CB	1:A:287:VAL:HB	2.49	0.43
1:D:60:HIS:HE1	1:D:269:THR:C	2.21	0.43
1:B:48:PHE:CE2	1:B:96:ILE:HD11	2.53	0.43
1:B:67:VAL:HA	1:B:81:PHE:HA	2.00	0.43
1:C:253:ARG:NH2	1:C:330:GLU:HB2	2.15	0.43
1:A:125:LEU:O	1:A:125:LEU:HD23	2.19	0.43
1:A:293:LEU:HD23	1:A:293:LEU:C	2.39	0.43
1:C:60:HIS:NE2	1:C:271:PRO:HA	2.33	0.43
1:C:238:LEU:HD11	1:C:321:LEU:HD22	2.00	0.43
1:C:306:PRO:HB2	2:C:547:HOH:O	2.19	0.43
1:C:311:ASN:OD1	1:C:313:GLU:N	2.33	0.43
1:A:98:LEU:HD12	1:A:98:LEU:C	2.39	0.43
1:A:206:ILE:HG13	1:A:206:ILE:O	2.17	0.43
1:A:262:TYR:OH	1:A:276:GLY:HA3	2.18	0.43
1:A:270:TYR:HB3	1:A:271:PRO:HD2	2.01	0.43
1:C:290:LYS:NZ	2:C:349:HOH:O	2.52	0.43
1:D:48:PHE:HB2	1:D:64:VAL:CG2	2.47	0.43
1:D:65:GLU:O	1:D:66:LYS:HB2	2.18	0.43
1:A:106:TYR:HE2	1:A:201:ASP:OD2	2.01	0.43
1:A:244:ILE:HG22	1:A:248:ILE:HD11	2.01	0.43
1:B:113:LEU:HD12	1:B:279:LEU:HG	1.99	0.43
1:B:163:PHE:O	1:B:165:PRO:HD3	2.19	0.43
1:D:60:HIS:HE1	1:D:272:SER:H	1.65	0.43
1:D:246:GLU:HB2	1:D:328:VAL:HG11	2.00	0.43
1:A:161:LYS:HA	1:A:168:ALA:HB1	2.00	0.43
1:B:218:PHE:C	1:B:255:ILE:HG21	2.39	0.43
1:C:295:PRO:HB3	1:C:310:TYR:OH	2.18	0.43
1:D:218:PHE:CE2	1:D:252:CYS:SG	3.12	0.43
1:A:50:GLU:HG3	1:A:95:VAL:HA	2.01	0.43
1:A:328:VAL:O	1:A:328:VAL:HG12	2.18	0.43
1:B:134:VAL:O	1:B:138:VAL:HG23	2.18	0.43
1:D:203:SER:HA	1:D:234:GLN:OE1	2.19	0.43
1:D:310:TYR:CD1	1:D:310:TYR:C	2.91	0.43
1:C:204:ASP:C	1:C:206:ILE:H	2.22	0.43
1:A:184:VAL:O	1:A:188:LYS:HG3	2.18	0.43
1:A:236:GLU:HB3	1:A:241:HIS:HB2	2.01	0.43
1:A:238:LEU:HD11	1:A:321:LEU:HD22	2.00	0.43
1:B:263:ALA:O	1:B:277:PHE:N	2.50	0.43
1:B:99:THR:HG21	1:B:269:THR:HG21	2.01	0.43
1:B:136:ARG:HB3	1:B:136:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:150:CYS:SG	1:B:186:PHE:HB2	2.59	0.43
1:C:243:ASP:CG	1:C:244:ILE:H	2.22	0.43
1:B:103:GLU:OE1	1:B:167:VAL:HG11	2.18	0.43
1:C:200:VAL:HB	1:C:233:THR:HG22	2.00	0.43
1:C:231:VAL:HG21	1:C:256:PHE:CZ	2.53	0.43
1:D:114:PRO:HG2	1:D:115:LEU:HD13	1.99	0.43
1:A:288:ASP:OD1	1:A:290:LYS:HB2	2.19	0.43
1:B:205:PRO:HB3	1:B:213:PHE:CD1	2.54	0.43
1:C:49:SER:HB2	1:C:51:MSE:SE	2.68	0.43
1:D:60:HIS:CE1	1:D:271:PRO:HA	2.54	0.43
1:A:140:ARG:HD3	1:A:296:ILE:HG21	1.99	0.43
1:D:128:GLY:C	1:D:130:GLY:N	2.72	0.43
1:B:173:ASP:OD2	1:B:175:ARG:NH2	2.49	0.43
1:A:107:GLN:HB3	1:A:137:GLU:HG3	2.00	0.43
1:A:249:VAL:HA	1:A:278:MSE:CE	2.47	0.43
1:B:113:LEU:N	1:B:114:PRO:HD2	2.34	0.43
1:B:151:GLU:O	1:B:180:ILE:HA	2.19	0.43
1:C:89:VAL:HG12	1:C:90:LEU:N	2.33	0.43
1:C:128:GLY:N	1:C:149:MSE:SE	3.02	0.43
1:D:198:VAL:HG23	1:D:225:LEU:CD2	2.47	0.43
1:A:54:MSE:HB3	1:A:55:TRP:CE3	2.54	0.43
1:A:109:MSE:SE	1:A:309:PHE:CE1	3.22	0.43
1:C:60:HIS:HE2	1:C:270:TYR:C	2.22	0.43
1:D:144:ILE:HG21	1:D:147:ILE:HG12	2.01	0.43
1:A:129:GLY:O	1:A:131:ASP:N	2.52	0.43
1:A:141:HIS:HB2	1:A:144:ILE:HG12	2.00	0.43
1:C:48:PHE:O	1:C:61:SER:HA	2.18	0.43
1:C:151:GLU:HG3	1:C:153:ASP:H	1.84	0.43
1:D:111:THR:HA	1:D:199:ILE:HD13	2.00	0.43
1:D:115:LEU:HD12	1:D:115:LEU:N	2.34	0.43
1:A:226:ARG:NH1	2:A:412:HOH:O	2.52	0.43
1:B:184:VAL:HA	1:B:217:PHE:CD1	2.54	0.43
1:C:48:PHE:O	1:C:61:SER:HA	2.19	0.43
1:C:242:MSE:SE	1:C:329:ILE:HG13	2.69	0.43
1:D:115:LEU:HD23	1:D:141:HIS:CD2	2.54	0.43
1:D:288:ASP:OD2	1:D:291:HIS:ND1	2.52	0.43
1:B:51:MSE:HG3	1:B:59:ALA:HB1	2.01	0.43
1:D:125:LEU:HD21	1:D:127:ILE:HD11	2.01	0.43
1:D:221:VAL:HG11	1:D:231:VAL:HG13	2.01	0.43
1:D:232:CYS:HA	1:D:278:MSE:O	2.18	0.43
1:C:162:GLN:CG	2:C:467:HOH:O	2.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:GLU:HA	2:D:370:HOH:O	2.19	0.43
1:D:218:PHE:C	1:D:255:ILE:HG21	2.40	0.43
1:B:173:ASP:HB3	1:B:176:VAL:HG23	2.01	0.43
1:B:188:LYS:HD3	2:B:421:HOH:O	2.18	0.43
1:D:154:LYS:HA	1:D:157:VAL:CG2	2.48	0.43
1:B:135:LEU:HD21	1:B:149:MSE:CG	2.49	0.43
1:A:310:TYR:CD1	1:A:311:ASN:N	2.87	0.43
1:B:270:TYR:O	1:B:271:PRO:C	2.57	0.43
1:D:130:GLY:CA	2:D:553:HOH:O	2.60	0.43
1:D:242:MSE:HE1	1:D:324:PHE:O	2.19	0.43
1:D:242:MSE:HE1	1:D:325:ALA:HA	2.00	0.43
1:A:122:LYS:HE2	1:A:145:GLU:OE1	2.18	0.43
1:D:236:GLU:HB3	2:D:409:HOH:O	2.19	0.43
1:D:262:TYR:CZ	1:D:276:GLY:HA3	2.54	0.43
1:B:109:MSE:HE2	1:B:113:LEU:CG	2.49	0.43
1:C:173:ASP:HB3	1:C:176:VAL:CG2	2.49	0.43
1:D:56:PRO:HG2	2:D:347:HOH:O	2.19	0.43
1:A:54:MSE:HB3	1:A:55:TRP:CE3	2.54	0.43
1:A:329:ILE:HG23	1:A:329:ILE:O	2.19	0.43
1:C:76:GLN:HB2	1:C:93:ASP:CG	2.39	0.43
1:C:259:SER:O	1:C:280:CYS:HA	2.18	0.43
1:D:291:HIS:HA	1:D:292:PRO:HD2	1.93	0.43
1:A:324:PHE:CD1	1:A:324:PHE:C	2.92	0.43
1:B:231:VAL:CG2	1:B:232:CYS:N	2.82	0.43
1:B:251:ASN:O	1:B:254:GLU:N	2.46	0.43
1:A:109:MSE:SE	1:A:310:TYR:HD2	2.52	0.43
1:B:122:LYS:HD3	1:B:145:GLU:OE2	2.19	0.43
1:B:179:VAL:HG21	1:B:186:PHE:CE2	2.53	0.43
1:D:88:LYS:HB2	1:D:164:PHE:HE2	1.84	0.43
1:C:69:PHE:CD1	1:C:69:PHE:C	2.91	0.42
1:C:98:LEU:HD22	1:C:131:ASP:OD1	2.18	0.42
1:C:112:HIS:HB3	1:C:116:CYS:SG	2.58	0.42
1:C:152:ILE:HD12	1:C:182:ASP:CA	2.49	0.42
1:A:223:ARG:HG3	1:A:223:ARG:HH11	1.84	0.42
1:A:301:SER:C	1:A:303:SER:N	2.72	0.42
1:B:200:VAL:HG12	1:B:202:SER:N	2.34	0.42
1:D:291:HIS:HA	1:D:292:PRO:HD2	1.87	0.42
1:B:323:SER:O	1:B:325:ALA:N	2.52	0.42
1:A:242:MSE:SE	1:A:325:ALA:HA	2.69	0.42
1:A:324:PHE:CD1	1:A:325:ALA:N	2.87	0.42
1:B:236:GLU:O	1:B:276:GLY:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:263:ALA:HA	1:B:318:ALA:O	2.18	0.42
1:A:235:ALA:HB2	1:A:278:MSE:HG2	2.00	0.42
1:D:102:ASP:OD2	1:D:269:THR:HG23	2.18	0.42
1:B:257:LYS:HE3	1:B:283:GLU:HB2	2.00	0.42
1:C:173:ASP:HA	1:C:174:PRO:HD3	1.86	0.42
1:C:203:SER:H	1:C:209:ALA:CB	2.32	0.42
1:A:310:TYR:CD1	1:A:310:TYR:C	2.92	0.42
1:B:63:LYS:HB2	1:C:57:GLY:HA2	2.01	0.42
1:B:309:PHE:CZ	1:C:322:PRO:HB3	2.54	0.42
1:C:72:LYS:HA	1:C:77:ASP:HA	2.01	0.42
1:C:80:VAL:HG21	1:C:159:VAL:HG12	2.00	0.42
1:A:43:VAL:HG13	1:D:43:VAL:C	2.38	0.42
1:A:67:VAL:O	1:C:46:GLY:HA2	2.18	0.42
1:B:167:VAL:C	1:B:169:ILE:N	2.72	0.42
1:B:169:ILE:CG2	1:B:170:GLY:N	2.82	0.42
1:A:184:VAL:HG23	1:A:185:ALA:N	2.34	0.42
1:B:267:VAL:HG11	1:B:270:TYR:CE2	2.54	0.42
1:C:234:GLN:NE2	1:C:234:GLN:C	2.72	0.42
1:C:112:HIS:O	1:C:116:CYS:HB2	2.18	0.42
1:C:185:ALA:C	1:C:187:LEU:H	2.22	0.42
1:A:132:GLY:CA	1:A:149:MSE:HE1	2.47	0.42
1:B:210:LYS:NZ	1:B:214:GLU:OE2	2.52	0.42
1:B:310:TYR:CD1	1:B:310:TYR:C	2.91	0.42
1:C:129:GLY:HA3	1:C:151:GLU:HB2	2.00	0.42
1:C:166:ASP:HA	1:C:169:ILE:CG2	2.48	0.42
1:D:48:PHE:HE2	1:D:96:ILE:HG12	1.83	0.42
1:D:182:ASP:OD2	1:D:184:VAL:HB	2.19	0.42
1:D:217:PHE:O	1:D:220:SER:HB3	2.19	0.42
1:D:326:LYS:NZ	2:D:350:HOH:O	2.52	0.42
1:B:184:VAL:HG23	1:B:217:PHE:HD1	1.84	0.42
1:A:249:VAL:O	1:A:252:CYS:HB2	2.18	0.42
1:A:298:GLU:C	1:A:300:SER:N	2.72	0.42
1:B:240:LEU:O	2:B:481:HOH:O	2.21	0.42
1:C:55:TRP:CE3	1:C:271:PRO:HG3	2.54	0.42
1:C:324:PHE:O	1:C:327:LYS:HG2	2.19	0.42
1:D:124:VAL:HG22	1:D:197:ALA:HB3	2.01	0.42
1:D:169:ILE:HG23	1:D:170:GLY:N	2.34	0.42
1:A:68:LEU:HD13	1:A:163:PHE:CD1	2.53	0.42
1:A:70:GLN:HE22	1:C:70:GLN:NE2	2.04	0.42
1:A:92:LEU:O	1:A:93:ASP:C	2.58	0.42
1:A:211:GLU:HA	1:A:214:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:212:LEU:HD12	1:A:212:LEU:H	1.83	0.42
1:B:45:PRO:HD3	1:C:43:VAL:HG21	2.01	0.42
1:A:55:TRP:HB3	1:A:240:LEU:HD13	2.01	0.42
1:A:98:LEU:HD12	1:A:98:LEU:C	2.40	0.42
1:C:129:GLY:O	1:C:131:ASP:N	2.44	0.42
1:A:131:ASP:OD2	1:A:132:GLY:N	2.53	0.42
1:B:313:GLU:CD	1:B:313:GLU:H	2.23	0.42
1:C:198:VAL:HG23	1:C:225:LEU:HD21	2.00	0.42
1:D:114:PRO:HG2	1:D:115:LEU:H	1.83	0.42
1:D:162:GLN:NE2	2:D:385:HOH:O	2.52	0.42
1:A:52:SER:OG	1:A:54:MSE:HB2	2.20	0.42
1:A:226:ARG:HG2	1:A:226:ARG:HH21	1.84	0.42
1:B:205:PRO:HB3	1:B:213:PHE:CD1	2.54	0.42
1:D:105:ALA:HA	1:D:309:PHE:CG	2.54	0.42
1:B:134:VAL:O	1:B:138:VAL:N	2.37	0.42
1:B:228:GLY:N	1:B:285:PRO:HD2	2.34	0.42
1:C:240:LEU:HD11	1:C:272:SER:HB3	2.00	0.42
1:D:88:LYS:HG2	1:D:163:PHE:O	2.19	0.42
1:D:269:THR:O	1:D:269:THR:HG22	2.19	0.42
1:A:70:GLN:HE22	1:C:70:GLN:NE2	2.16	0.42
1:C:116:CYS:SG	1:C:295:PRO:HA	2.59	0.42
1:D:65:GLU:HB3	1:D:82:GLN:O	2.18	0.42
1:D:111:THR:O	1:D:114:PRO:HG2	2.20	0.42
1:D:125:LEU:HD12	1:D:126:VAL:H	1.85	0.42
1:A:144:ILE:O	1:A:175:ARG:HD2	2.19	0.42
1:A:160:SER:O	1:A:164:PHE:HD2	2.02	0.42
1:A:208:PRO:CG	2:A:401:HOH:O	2.67	0.42
1:D:279:LEU:HD12	1:D:289:PHE:CE1	2.55	0.42
1:A:48:PHE:O	1:A:61:SER:HA	2.19	0.42
1:C:193:GLY:HA2	1:C:225:LEU:O	2.19	0.42
1:D:42:THR:HB	1:D:47:TRP:O	2.19	0.42
1:D:52:SER:O	1:D:54:MSE:N	2.52	0.42
1:A:125:LEU:HD12	1:A:148:ASP:HB2	2.01	0.42
1:C:169:ILE:HG12	2:C:460:HOH:O	2.19	0.42
1:C:289:PHE:HB3	1:C:319:PHE:CZ	2.55	0.42
1:C:324:PHE:CD1	1:C:325:ALA:N	2.87	0.42
1:D:88:LYS:O	1:D:99:THR:HA	2.18	0.42
1:C:157:VAL:HG13	1:C:171:TYR:CZ	2.54	0.42
1:C:252:CYS:SG	1:C:278:MSE:HE3	2.59	0.42
1:D:265:THR:HG23	1:D:267:VAL:HG23	2.02	0.42
1:A:164:PHE:HB3	1:A:167:VAL:CG2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:263:ALA:HB2	1:A:319:PHE:CE1	2.54	0.42
1:B:238:LEU:HD22	1:B:242:MSE:SE	2.69	0.42
1:B:240:LEU:CD1	1:B:272:SER:HB2	2.47	0.42
1:D:65:GLU:HB3	1:D:82:GLN:O	2.19	0.42
1:D:135:LEU:HD12	1:D:171:TYR:CD1	2.55	0.42
1:D:152:ILE:CG2	1:D:153:ASP:N	2.82	0.42
1:A:99:THR:CG2	1:A:101:ARG:H	2.32	0.42
1:A:157:VAL:HG12	1:A:161:LYS:HE3	2.02	0.42
1:D:111:THR:OG1	1:D:137:GLU:HB3	2.20	0.42
1:D:129:GLY:O	1:D:130:GLY:O	2.37	0.42
1:D:169:ILE:HA	1:D:172:GLU:OE1	2.20	0.42
1:A:288:ASP:C	1:A:290:LYS:N	2.73	0.42
1:C:125:LEU:HB2	1:C:195:TYR:CE1	2.54	0.42
1:C:267:VAL:HG11	1:C:270:TYR:CD2	2.54	0.42
1:D:225:LEU:HD22	1:D:229:GLY:CA	2.50	0.42
1:A:75:TYR:CZ	1:A:152:ILE:HG12	2.54	0.42
1:A:310:TYR:CD1	1:A:311:ASN:N	2.88	0.42
1:C:121:PRO:O	1:C:144:ILE:HD13	2.20	0.42
1:D:48:PHE:HE2	1:D:50:GLU:HB2	1.84	0.42
1:D:162:GLN:NE2	2:D:387:HOH:O	2.52	0.42
1:D:259:SER:O	1:D:280:CYS:HA	2.19	0.42
1:A:55:TRP:HZ3	1:A:204:ASP:OD2	2.02	0.42
1:C:238:LEU:HA	1:C:242:MSE:CE	2.49	0.42
1:D:131:ASP:C	1:D:167:VAL:HB	2.40	0.42
1:D:138:VAL:HG12	1:D:144:ILE:HG13	2.01	0.42
1:A:69:PHE:CE2	1:B:45:PRO:HD3	2.54	0.42
1:B:264:TRP:CZ3	1:B:274:VAL:HG11	2.54	0.42
1:C:129:GLY:N	1:C:151:GLU:HB2	2.34	0.42
1:C:219:GLN:HB2	1:C:255:ILE:HD12	2.01	0.42
1:A:261:ASN:ND2	1:A:289:PHE:HD2	2.15	0.42
1:B:140:ARG:NE	1:B:307:LEU:HD21	2.35	0.42
1:B:223:ARG:NH1	2:B:480:HOH:O	2.52	0.42
1:C:114:PRO:HG2	1:C:115:LEU:H	1.83	0.42
1:C:257:LYS:HE2	2:C:368:HOH:O	2.19	0.42
1:A:223:ARG:HG3	1:A:224:ALA:N	2.35	0.42
1:B:43:VAL:CA	1:C:43:VAL:HG13	2.46	0.42
1:B:52:SER:C	1:B:54:MSE:N	2.73	0.42
1:B:124:VAL:HG23	1:B:144:ILE:HD12	2.00	0.42
1:C:232:CYS:HA	1:C:278:MSE:O	2.20	0.42
1:A:43:VAL:HG12	1:A:44:ILE:O	2.19	0.42
1:A:80:VAL:HG21	1:A:159:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:103:GLU:OE1	1:C:167:VAL:HG21	2.20	0.42
1:D:45:PRO:O	1:D:47:TRP:HD1	2.02	0.42
1:D:131:ASP:HA	1:D:160:SER:CB	2.50	0.42
1:A:169:ILE:HG23	1:A:170:GLY:N	2.34	0.42
1:B:95:VAL:HG21	1:B:204:ASP:OD2	2.19	0.42
1:B:326:LYS:O	1:B:327:LYS:C	2.57	0.42
1:C:225:LEU:HD22	1:C:229:GLY:HA3	2.01	0.42
1:B:122:LYS:HD3	1:B:145:GLU:OE2	2.19	0.42
1:B:165:PRO:C	1:B:167:VAL:H	2.23	0.42
1:C:43:VAL:CG1	1:C:44:ILE:N	2.82	0.42
1:A:262:TYR:CD1	1:A:262:TYR:C	2.93	0.42
1:B:107:GLN:HG2	1:B:133:GLY:C	2.40	0.42
1:B:326:LYS:O	1:B:330:GLU:HG2	2.20	0.42
1:C:146:GLN:HG2	1:C:147:ILE:N	2.34	0.42
1:C:215:LYS:N	1:C:216:PRO:CD	2.82	0.42
1:C:236:GLU:O	1:C:276:GLY:N	2.53	0.42
1:C:310:TYR:CD1	1:C:311:ASN:N	2.88	0.42
1:C:322:PRO:O	1:C:324:PHE:N	2.52	0.42
1:D:47:TRP:CE2	1:D:63:LYS:HB2	2.54	0.42
1:A:73:SER:C	1:A:75:TYR:H	2.21	0.42
1:C:148:ASP:OD1	1:C:177:ASN:HB3	2.20	0.42
1:C:198:VAL:HG11	1:C:221:VAL:HG13	2.01	0.42
1:C:226:ARG:HG3	1:C:227:PRO:N	2.35	0.42
1:D:109:MSE:SE	1:D:310:TYR:HD2	2.53	0.42
1:D:321:LEU:HD13	1:D:329:ILE:HD12	2.01	0.42
1:B:310:TYR:CD1	1:B:310:TYR:C	2.92	0.42
1:A:310:TYR:HA	1:A:314:ILE:HG21	2.02	0.42
1:B:249:VAL:HG22	1:B:278:MSE:HE3	2.02	0.42
1:D:96:ILE:HG21	1:D:269:THR:HG22	2.02	0.42
1:D:310:TYR:CD1	1:D:310:TYR:C	2.93	0.42
1:A:92:LEU:O	1:A:93:ASP:C	2.57	0.42
1:A:264:TRP:CD1	1:A:321:LEU:HD23	2.54	0.42
1:A:47:TRP:HZ3	1:D:58:GLU:N	2.18	0.42
1:A:90:LEU:HD22	1:A:97:GLN:HB3	2.01	0.42
1:A:151:GLU:HG2	1:A:157:VAL:CG2	2.50	0.42
1:B:105:ALA:O	1:B:108:GLU:N	2.53	0.42
1:B:131:ASP:N	1:B:171:TYR:OH	2.53	0.42
1:B:167:VAL:C	1:B:169:ILE:N	2.72	0.42
1:C:107:GLN:NE2	1:C:133:GLY:HA3	2.35	0.42
1:A:103:GLU:HB2	1:A:107:GLN:NE2	2.35	0.42
1:A:226:ARG:HB2	1:A:227:PRO:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:133:GLY:O	1:C:136:ARG:HB3	2.19	0.42
1:A:173:ASP:HB3	1:A:176:VAL:CG2	2.47	0.42
1:D:97:GLN:OE1	1:D:97:GLN:HA	2.20	0.42
1:D:221:VAL:CG1	1:D:231:VAL:HG21	2.50	0.42
1:D:311:ASN:O	1:D:314:ILE:N	2.52	0.42
1:A:77:ASP:HB2	1:A:93:ASP:CA	2.39	0.42
1:A:88:LYS:N	1:A:100:GLU:OE1	2.45	0.42
1:A:122:LYS:HE2	1:A:145:GLU:OE1	2.19	0.42
1:A:232:CYS:HA	1:A:278:MSE:O	2.20	0.42
1:C:52:SER:HB3	1:C:55:TRP:CE2	2.55	0.42
1:D:239:TRP:O	1:D:240:LEU:HD23	2.20	0.42
1:A:171:TYR:CD1	1:A:178:LEU:HD22	2.55	0.42
1:C:279:LEU:HB3	1:C:289:PHE:CG	2.54	0.42
1:A:279:LEU:HB3	1:A:289:PHE:CE2	2.55	0.42
1:A:297:ASP:CG	1:A:298:GLU:N	2.72	0.42
1:C:73:SER:CB	1:C:155:MSE:SE	3.12	0.42
1:C:87:GLY:O	1:C:88:LYS:C	2.56	0.42
1:C:141:HIS:HB2	1:C:144:ILE:HG12	2.01	0.42
1:C:252:CYS:HB2	1:C:278:MSE:HE3	2.01	0.42
1:D:288:ASP:OD1	1:D:291:HIS:N	2.52	0.42
1:C:297:ASP:OD1	1:C:298:GLU:N	2.35	0.42
1:A:43:VAL:O	1:A:45:PRO:HD3	2.19	0.42
1:A:277:PHE:HB3	1:A:279:LEU:HD22	2.02	0.42
1:B:118:ILE:HD13	1:B:230:VAL:HG22	2.02	0.42
1:C:129:GLY:CA	1:C:151:GLU:HB2	2.49	0.42
1:D:52:SER:HB3	1:D:55:TRP:CE2	2.55	0.42
1:D:63:LYS:HG2	1:D:84:ALA:HB2	2.02	0.42
1:A:57:GLY:O	1:A:58:GLU:O	2.37	0.42
1:A:245:ILE:O	1:A:249:VAL:HG23	2.19	0.42
1:A:297:ASP:H	1:A:300:SER:HB3	1.84	0.42
1:D:264:TRP:CZ3	1:D:274:VAL:HG21	2.55	0.42
1:A:99:THR:HG22	1:A:101:ARG:N	2.35	0.42
1:B:267:VAL:HG11	1:B:270:TYR:CD2	2.54	0.42
1:C:123:LYS:HG2	1:C:195:TYR:CE1	2.55	0.42
1:D:126:VAL:HG11	1:D:149:MSE:CE	2.50	0.42
1:A:70:GLN:HE21	1:A:79:ILE:HD11	1.85	0.42
1:B:74:ASP:OD2	1:B:74:ASP:N	2.52	0.42
1:B:136:ARG:HD3	1:B:167:VAL:HA	2.01	0.42
1:B:236:GLU:HB3	1:B:237:SER:H	1.69	0.42
1:B:307:LEU:CD1	1:B:310:TYR:HD1	2.28	0.42
1:D:112:HIS:O	1:D:113:LEU:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:120:ASN:HA	1:D:121:PRO:HD2	1.97	0.42
1:D:158:ASP:O	1:D:161:LYS:HB2	2.20	0.42
1:A:130:GLY:O	1:A:131:ASP:HB3	2.19	0.42
1:A:323:SER:OG	1:D:311:ASN:HB3	2.20	0.42
1:B:87:GLY:HA3	1:B:100:GLU:HB2	2.01	0.42
1:B:266:SER:O	1:B:267:VAL:CG2	2.67	0.42
1:C:151:GLU:HG3	1:C:153:ASP:H	1.84	0.42
1:D:72:LYS:HG3	1:D:77:ASP:OD1	2.19	0.42
1:D:324:PHE:CG	1:D:325:ALA:N	2.87	0.42
1:D:329:ILE:O	1:D:330:GLU:HB2	2.19	0.42
1:A:187:LEU:HD21	1:A:221:VAL:HG22	2.01	0.42
1:A:241:HIS:HB3	1:A:244:ILE:HB	2.02	0.42
1:A:46:GLY:O	1:A:63:LYS:HD2	2.20	0.42
1:D:256:PHE:CD1	1:D:282:THR:HG22	2.53	0.42
1:B:123:LYS:O	1:B:195:TYR:HA	2.19	0.42
1:B:293:LEU:C	1:B:295:PRO:HD3	2.40	0.42
1:C:72:LYS:HD2	1:C:77:ASP:OD1	2.19	0.42
1:C:148:ASP:HA	1:C:177:ASN:CB	2.38	0.42
1:C:289:PHE:O	1:C:315:HIS:HE1	2.02	0.42
1:D:97:GLN:HA	1:D:97:GLN:HE21	1.82	0.42
1:D:244:ILE:O	1:D:248:ILE:HG13	2.20	0.42
1:A:43:VAL:C	1:A:44:ILE:HD12	2.40	0.42
1:A:211:GLU:OE1	1:A:211:GLU:N	2.49	0.42
1:A:293:LEU:HD23	1:A:293:LEU:C	2.40	0.42
1:B:169:ILE:HD12	1:B:169:ILE:HA	1.91	0.42
1:C:61:SER:O	1:C:62:LEU:HD23	2.19	0.42
1:C:137:GLU:CD	1:C:140:ARG:HE	2.23	0.42
1:D:39:CYS:C	1:D:41:SER:H	2.22	0.42
1:D:161:LYS:HA	1:D:168:ALA:CB	2.50	0.42
1:A:257:LYS:HE2	1:A:283:GLU:OE2	2.20	0.42
1:C:229:GLY:O	1:C:281:SER:HA	2.19	0.42
1:C:251:ASN:O	1:C:255:ILE:HG12	2.20	0.42
1:D:113:LEU:N	1:D:114:PRO:HD2	2.33	0.42
1:D:313:GLU:N	1:D:313:GLU:CD	2.73	0.42
1:A:244:ILE:O	1:A:248:ILE:HG13	2.20	0.42
1:C:238:LEU:HD21	1:C:262:TYR:CE2	2.55	0.42
1:D:260:VAL:HG13	1:D:280:CYS:SG	2.60	0.42
1:A:314:ILE:HD13	1:D:321:LEU:O	2.20	0.42
1:B:101:ARG:O	1:B:101:ARG:HG2	2.18	0.42
1:D:43:VAL:CG2	1:D:44:ILE:HG13	2.40	0.42
1:A:169:ILE:O	1:A:172:GLU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:80:VAL:O	1:D:80:VAL:HG12	2.20	0.42
1:D:169:ILE:HG23	1:D:170:GLY:N	2.34	0.42
1:A:253:ARG:HH22	1:A:330:GLU:HB2	1.84	0.42
1:B:242:MSE:CG	1:B:328:VAL:HG21	2.50	0.42
1:C:152:ILE:HD12	1:C:182:ASP:HA	2.02	0.42
1:C:262:TYR:OH	1:C:276:GLY:HA3	2.20	0.42
1:C:310:TYR:CD1	1:C:311:ASN:N	2.88	0.42
1:D:131:ASP:HA	1:D:160:SER:HB3	2.01	0.42
1:A:293:LEU:HD23	1:A:293:LEU:C	2.40	0.42
1:B:96:ILE:HG21	1:B:269:THR:HG22	2.01	0.42
1:C:50:GLU:OE2	1:C:95:VAL:HA	2.19	0.42
1:D:149:MSE:HE2	1:D:151:GLU:HB2	2.02	0.42
1:A:169:ILE:HG23	1:A:170:GLY:N	2.34	0.42
1:B:115:LEU:HD23	1:B:141:HIS:CD2	2.54	0.42
1:C:95:VAL:O	1:C:97:GLN:HG2	2.20	0.42
1:C:107:GLN:CD	1:C:133:GLY:HA3	2.40	0.42
1:C:125:LEU:HD23	1:C:198:VAL:HG22	2.02	0.42
1:C:182:ASP:OD1	1:C:184:VAL:HG22	2.19	0.42
1:C:200:VAL:CG2	1:C:233:THR:HG22	2.50	0.42
1:C:215:LYS:HB2	1:C:216:PRO:HD3	2.02	0.42
1:A:47:TRP:HE3	1:A:61:SER:OG	2.01	0.42
1:A:257:LYS:NZ	2:A:566:HOH:O	2.52	0.42
1:D:118:ILE:HD11	1:D:197:ALA:HB2	2.00	0.42
1:A:291:HIS:HA	1:A:292:PRO:HD2	1.86	0.42
1:C:151:GLU:OE1	1:C:152:ILE:N	2.51	0.42
1:D:267:VAL:HB	1:D:270:TYR:HB2	2.01	0.42
1:A:223:ARG:HG3	1:A:223:ARG:HH11	1.85	0.42
1:A:51:MSE:O	1:C:72:LYS:HD2	2.19	0.42
1:A:55:TRP:O	1:A:55:TRP:CD1	2.73	0.42
1:A:72:LYS:HE2	2:A:396:HOH:O	2.20	0.42
1:B:229:GLY:O	1:B:281:SER:HA	2.20	0.42
1:D:53:PRO:O	1:D:56:PRO:HD3	2.20	0.42
1:B:67:VAL:HG22	1:B:81:PHE:CB	2.49	0.42
1:B:85:THR:O	1:B:101:ARG:HD2	2.20	0.42
1:B:238:LEU:HD13	1:B:325:ALA:HB1	2.02	0.42
1:D:131:ASP:O	1:D:167:VAL:HB	2.20	0.42
1:A:291:HIS:O	1:A:292:PRO:C	2.57	0.42
1:C:65:GLU:OE1	1:C:65:GLU:HA	2.19	0.42
1:D:113:LEU:N	1:D:114:PRO:HD2	2.35	0.42
1:A:86:TYR:HD2	1:A:99:THR:HG21	1.85	0.42
1:A:134:VAL:HG12	1:A:138:VAL:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:TRP:CZ2	1:C:51:MSE:SE	3.23	0.42
1:A:44:ILE:HG23	1:A:45:PRO:HD2	2.01	0.42
1:A:279:LEU:HB3	1:A:289:PHE:CD1	2.55	0.42
1:C:104:CYS:CB	1:C:308:LYS:HB2	2.49	0.42
1:C:108:GLU:OE1	1:C:307:LEU:HB3	2.19	0.42
1:C:123:LYS:HE3	1:C:195:TYR:CE1	2.55	0.42
1:C:223:ARG:C	1:C:225:LEU:H	2.24	0.42
1:D:126:VAL:HB	1:D:149:MSE:SE	2.70	0.42
1:B:113:LEU:HD23	1:B:315:HIS:ND1	2.34	0.42
1:D:329:ILE:O	1:D:329:ILE:HG22	2.19	0.42
1:A:113:LEU:HD23	1:A:315:HIS:CE1	2.55	0.42
1:A:223:ARG:HG3	1:A:223:ARG:HH11	1.85	0.42
1:A:236:GLU:HB3	1:A:241:HIS:NE2	2.34	0.42
1:A:301:SER:O	1:A:302:LYS:C	2.57	0.42
1:B:162:GLN:NE2	2:B:364:HOH:O	2.45	0.42
1:B:243:ASP:N	2:B:433:HOH:O	2.52	0.42
1:C:234:GLN:OE1	1:C:235:ALA:N	2.53	0.42
1:D:241:HIS:ND1	2:D:411:HOH:O	2.37	0.42
1:A:304:ASN:HB3	2:A:374:HOH:O	2.19	0.42
1:B:125:LEU:HB2	1:B:195:TYR:CD1	2.55	0.42
1:B:152:ILE:HA	1:B:180:ILE:CG2	2.47	0.42
1:C:111:THR:HG21	1:C:137:GLU:HB3	2.01	0.42
1:C:275:ILE:HG13	1:C:276:GLY:H	1.84	0.42
1:A:50:GLU:OE2	1:A:95:VAL:HG13	2.19	0.42
1:A:279:LEU:O	1:A:280:CYS:SG	2.75	0.42
1:B:107:GLN:HG2	1:B:134:VAL:N	2.35	0.42
1:D:184:VAL:HG13	2:D:410:HOH:O	2.20	0.42
1:A:96:ILE:CG2	1:A:269:THR:HG21	2.49	0.42
1:C:66:LYS:HG2	1:C:82:GLN:HB3	2.01	0.42
1:C:125:LEU:HB2	1:C:195:TYR:CE1	2.55	0.42
1:D:122:LYS:HG2	1:D:143:SER:O	2.20	0.42
1:D:279:LEU:HB3	1:D:289:PHE:CD2	2.55	0.42
1:A:51:MSE:HB2	1:C:72:LYS:HB3	2.02	0.41
1:A:235:ALA:HB3	1:A:262:TYR:HE2	1.85	0.41
1:B:42:THR:HA	1:B:49:SER:CB	2.50	0.41
1:C:169:ILE:HA	1:C:172:GLU:CD	2.41	0.41
1:D:83:SER:OG	1:D:86:TYR:N	2.41	0.41
1:D:186:PHE:C	1:D:186:PHE:CD1	2.93	0.41
1:C:297:ASP:CG	1:C:300:SER:HG	2.22	0.41
1:D:96:ILE:HG21	1:D:269:THR:HG21	2.01	0.41
1:A:83:SER:HB2	1:A:89:VAL:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:GLY:O	1:C:281:SER:HA	2.18	0.41
1:D:250:SER:O	1:D:253:ARG:HB2	2.20	0.41
1:A:55:TRP:HA	1:A:56:PRO:HD2	1.93	0.41
1:A:308:LYS:O	1:D:324:PHE:HD2	2.02	0.41
1:B:229:GLY:O	1:B:281:SER:HA	2.20	0.41
1:C:127:ILE:H	1:C:127:ILE:CD1	2.26	0.41
1:A:264:TRP:HA	1:A:275:ILE:O	2.19	0.41
1:D:48:PHE:H	1:D:64:VAL:HG23	1.85	0.41
1:D:103:GLU:O	1:D:107:GLN:HB2	2.20	0.41
1:C:200:VAL:HG11	1:C:217:PHE:CE2	2.55	0.41
1:D:186:PHE:C	1:D:186:PHE:CD1	2.94	0.41
1:A:279:LEU:HD23	1:A:319:PHE:CE1	2.54	0.41
1:C:272:SER:O	2:C:337:HOH:O	2.22	0.41
1:A:115:LEU:C	1:A:117:SER:N	2.73	0.41
1:A:262:TYR:OH	1:A:276:GLY:HA3	2.19	0.41
1:A:238:LEU:HA	1:A:242:MSE:HE1	1.99	0.41
1:B:104:CYS:O	1:B:108:GLU:HB2	2.20	0.41
1:B:140:ARG:HH21	1:B:307:LEU:HD23	1.85	0.41
1:B:229:GLY:O	1:B:281:SER:HA	2.21	0.41
1:D:130:GLY:O	1:D:160:SER:OG	2.34	0.41
1:D:135:LEU:O	1:D:136:ARG:C	2.58	0.41
1:A:179:VAL:HG11	1:A:186:PHE:CE2	2.54	0.41
1:A:229:GLY:O	1:A:281:SER:HA	2.19	0.41
1:B:149:MSE:SE	1:B:151:GLU:HB2	2.70	0.41
1:C:82:GLN:NE2	1:C:88:LYS:HG3	2.35	0.41
1:A:230:VAL:HA	1:A:280:CYS:O	2.19	0.41
1:A:279:LEU:HB3	1:A:289:PHE:CE1	2.56	0.41
1:B:47:TRP:CZ2	1:B:63:LYS:HE2	2.55	0.41
1:B:206:ILE:CG2	1:B:207:GLY:N	2.83	0.41
1:A:129:GLY:C	1:A:131:ASP:N	2.73	0.41
1:A:311:ASN:O	1:A:313:GLU:N	2.53	0.41
1:D:167:VAL:C	1:D:169:ILE:N	2.74	0.41
1:D:242:MSE:HE1	1:D:325:ALA:CB	2.50	0.41
1:A:121:PRO:HG2	1:A:144:ILE:HD11	2.02	0.41
1:A:170:GLY:C	1:A:172:GLU:N	2.72	0.41
1:C:258:GLY:HA3	1:C:281:SER:OG	2.20	0.41
1:A:55:TRP:O	1:A:55:TRP:CD1	2.73	0.41
1:A:176:VAL:HG12	1:A:177:ASN:N	2.35	0.41
1:A:234:GLN:NE2	1:A:275:ILE:HD11	2.21	0.41
1:B:86:TYR:O	1:B:99:THR:HB	2.20	0.41
1:A:95:VAL:HG13	2:A:376:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:TRP:HA	1:A:275:ILE:O	2.19	0.41
1:B:76:GLN:HB2	1:B:93:ASP:CG	2.41	0.41
1:B:271:PRO:O	1:B:272:SER:CB	2.66	0.41
1:C:46:GLY:HA3	1:C:63:LYS:HZ1	1.85	0.41
1:C:209:ALA:O	1:C:212:LEU:HD13	2.20	0.41
1:D:241:HIS:O	1:D:245:ILE:HG13	2.20	0.41
1:A:135:LEU:HD21	1:A:176:VAL:HG11	2.02	0.41
1:A:146:GLN:HA	1:A:175:ARG:O	2.21	0.41
1:A:149:MSE:HE3	1:A:171:TYR:CE1	2.55	0.41
1:B:53:PRO:O	1:B:56:PRO:HD3	2.20	0.41
1:C:113:LEU:N	1:C:114:PRO:HD2	2.36	0.41
1:D:69:PHE:HE2	1:D:78:VAL:HB	1.84	0.41
1:D:324:PHE:C	1:D:324:PHE:CD1	2.94	0.41
1:A:79:ILE:HG22	1:A:80:VAL:N	2.34	0.41
1:A:127:ILE:HD12	1:A:200:VAL:HG22	2.02	0.41
1:B:51:MSE:SE	1:C:44:ILE:HD12	2.70	0.41
1:B:78:VAL:HG11	1:B:159:VAL:HG21	2.01	0.41
1:C:82:GLN:NE2	1:C:88:LYS:N	2.68	0.41
1:D:206:ILE:HG23	1:D:207:GLY:N	2.35	0.41
1:A:156:VAL:HG12	1:A:157:VAL:N	2.34	0.41
1:A:113:LEU:HD23	1:A:113:LEU:HA	1.94	0.41
1:B:104:CYS:O	1:B:108:GLU:HB2	2.21	0.41
1:B:169:ILE:CG2	1:B:170:GLY:N	2.83	0.41
1:C:215:LYS:N	1:C:216:PRO:HD3	2.32	0.41
1:D:76:GLN:OE1	1:D:92:LEU:HD22	2.20	0.41
1:B:127:ILE:HD11	1:B:187:LEU:HD23	1.98	0.41
1:A:49:SER:HB2	1:A:51:MSE:SE	2.70	0.41
1:B:308:LYS:O	1:C:324:PHE:HB3	2.20	0.41
1:C:200:VAL:HB	1:C:233:THR:CG2	2.34	0.41
1:C:202:SER:HB2	1:C:213:PHE:CE1	2.55	0.41
1:D:128:GLY:C	1:D:130:GLY:N	2.71	0.41
1:A:121:PRO:HA	2:A:382:HOH:O	2.18	0.41
1:C:184:VAL:CG2	1:C:185:ALA:N	2.84	0.41
1:D:164:PHE:HB2	1:D:167:VAL:CG2	2.50	0.41
1:A:192:GLU:HG2	2:A:425:HOH:O	2.20	0.41
1:B:173:ASP:OD1	1:B:175:ARG:NH2	2.50	0.41
1:C:89:VAL:HG12	1:C:90:LEU:N	2.35	0.41
1:D:103:GLU:HA	2:D:372:HOH:O	2.20	0.41
1:D:107:GLN:NE2	2:D:373:HOH:O	2.52	0.41
1:A:161:LYS:HA	1:A:168:ALA:CB	2.46	0.41
1:C:70:GLN:HG2	1:C:79:ILE:HG12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:106:TYR:HE2	1:C:201:ASP:OD1	2.03	0.41
1:A:214:GLU:CB	1:A:216:PRO:HD2	2.50	0.41
1:B:114:PRO:HG2	1:B:115:LEU:H	1.86	0.41
1:B:132:GLY:HA3	1:B:167:VAL:O	2.20	0.41
1:B:150:CYS:SG	1:B:181:GLY:O	2.78	0.41
1:C:50:GLU:HG2	1:C:55:TRP:CZ2	2.55	0.41
1:C:112:HIS:HB3	1:C:116:CYS:SG	2.61	0.41
1:C:147:ILE:O	1:C:176:VAL:HA	2.20	0.41
1:B:106:TYR:CZ	1:B:110:ILE:HD12	2.55	0.41
1:B:134:VAL:O	1:B:138:VAL:HG23	2.20	0.41
1:B:323:SER:C	1:B:325:ALA:N	2.72	0.41
1:C:82:GLN:HE22	1:C:88:LYS:HG3	1.85	0.41
1:C:324:PHE:O	1:C:324:PHE:HD1	2.04	0.41
1:D:72:LYS:HD2	1:D:77:ASP:OD1	2.19	0.41
1:A:72:LYS:HB2	1:A:72:LYS:HZ3	1.85	0.41
1:C:191:ALA:O	1:C:192:GLU:C	2.59	0.41
1:A:98:LEU:HD12	1:A:98:LEU:C	2.40	0.41
1:B:109:MSE:SE	1:B:314:ILE:CG2	3.18	0.41
1:C:50:GLU:CG	1:C:55:TRP:HZ2	2.31	0.41
1:C:79:ILE:HG22	1:C:80:VAL:N	2.35	0.41
1:D:110:ILE:HG12	1:D:199:ILE:HG23	2.03	0.41
1:A:70:GLN:HG3	1:A:79:ILE:HA	2.02	0.41
1:A:116:CYS:SG	1:A:295:PRO:HA	2.60	0.41
1:A:233:THR:O	1:A:277:PHE:HD1	2.03	0.41
1:A:257:LYS:HE3	1:A:257:LYS:HB3	1.92	0.41
1:B:324:PHE:CD1	1:B:324:PHE:C	2.94	0.41
1:C:215:LYS:HE3	1:C:251:ASN:OD1	2.20	0.41
1:A:239:TRP:HB2	1:A:272:SER:OG	2.20	0.41
1:B:130:GLY:HA3	1:B:156:VAL:HG11	2.01	0.41
1:B:199:ILE:HA	1:B:232:CYS:O	2.20	0.41
1:C:106:TYR:HE2	1:C:201:ASP:OD2	2.02	0.41
1:D:184:VAL:HG22	1:D:217:PHE:HD1	1.84	0.41
1:B:248:ILE:HG22	1:B:278:MSE:HG3	2.02	0.41
1:D:54:MSE:O	1:D:241:HIS:NE2	2.53	0.41
1:D:128:GLY:HA3	1:D:149:MSE:HE1	2.02	0.41
1:A:197:ALA:HA	1:A:230:VAL:O	2.20	0.41
1:D:55:TRP:O	1:D:58:GLU:HG2	2.19	0.41
1:D:108:GLU:OE2	1:D:307:LEU:HD23	2.21	0.41
1:D:121:PRO:O	1:D:144:ILE:HD13	2.20	0.41
1:A:86:TYR:CE2	1:A:101:ARG:HD3	2.55	0.41
1:A:288:ASP:OD2	1:A:291:HIS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:236:GLU:O	1:B:276:GLY:N	2.52	0.41
1:B:72:LYS:HB2	1:B:77:ASP:OD1	2.20	0.41
1:B:155:MSE:O	1:B:159:VAL:HG23	2.19	0.41
1:D:108:GLU:OE1	1:D:310:TYR:N	2.53	0.41
1:A:267:VAL:CG1	1:A:270:TYR:CD2	2.99	0.41
1:B:123:LYS:HE3	1:B:146:GLN:CD	2.41	0.41
1:B:161:LYS:HA	1:B:168:ALA:HB1	2.02	0.41
1:B:216:PRO:HD2	2:B:429:HOH:O	2.19	0.41
1:B:290:LYS:HE2	2:B:484:HOH:O	2.20	0.41
1:C:173:ASP:OD1	1:C:175:ARG:N	2.46	0.41
1:C:223:ARG:HG3	1:C:224:ALA:N	2.36	0.41
1:C:237:SER:H	1:C:241:HIS:HD2	1.69	0.41
1:A:311:ASN:O	1:A:313:GLU:N	2.53	0.41
1:A:97:GLN:O	1:A:98:LEU:HB3	2.18	0.41
1:A:242:MSE:C	1:A:244:ILE:N	2.72	0.41
1:A:264:TRP:HD1	1:A:318:ALA:O	2.03	0.41
1:B:169:ILE:HA	1:B:172:GLU:HG2	2.03	0.41
1:C:127:ILE:O	1:C:127:ILE:HG22	2.21	0.41
1:C:283:GLU:N	1:C:283:GLU:OE2	2.44	0.41
1:A:218:PHE:HB3	1:A:256:PHE:HE1	1.86	0.41
1:D:317:ALA:O	1:D:319:PHE:N	2.54	0.41
1:C:135:LEU:HD12	1:C:135:LEU:HA	1.89	0.41
1:C:238:LEU:HD22	1:C:242:MSE:HE1	2.02	0.41
1:D:50:GLU:C	1:D:51:MSE:SE	3.09	0.41
1:D:118:ILE:HD11	1:D:121:PRO:HB3	2.03	0.41
1:A:135:LEU:HD23	1:A:170:GLY:C	2.41	0.41
1:B:163:PHE:O	1:B:165:PRO:HD3	2.21	0.41
1:D:109:MSE:SE	1:D:309:PHE:CD2	3.24	0.41
1:D:159:VAL:O	1:D:163:PHE:HB2	2.20	0.41
1:D:223:ARG:NH2	2:D:526:HOH:O	2.53	0.41
1:A:206:ILE:CG2	1:A:207:GLY:N	2.83	0.41
1:B:123:LYS:HE3	1:B:146:GLN:NE2	2.35	0.41
1:B:179:VAL:HG21	1:B:186:PHE:CE2	2.56	0.41
1:B:245:ILE:O	1:B:248:ILE:HB	2.21	0.41
1:B:269:THR:HG22	1:B:269:THR:O	2.20	0.41
1:C:82:GLN:HE22	1:C:88:LYS:H	1.68	0.41
1:C:164:PHE:HB3	1:C:167:VAL:CG2	2.50	0.41
1:C:182:ASP:OD2	1:C:184:VAL:HG22	2.21	0.41
1:C:200:VAL:HB	1:C:233:THR:CG2	2.48	0.41
1:C:206:ILE:HG23	1:C:207:GLY:H	1.86	0.41
1:C:310:TYR:CD1	1:C:311:ASN:N	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:MSE:HG2	1:A:109:MSE:H	1.66	0.41
1:B:164:PHE:HB2	1:B:167:VAL:CG2	2.51	0.41
1:B:191:ALA:O	1:B:223:ARG:NH1	2.54	0.41
1:B:205:PRO:HD3	1:B:213:PHE:CZ	2.56	0.41
1:B:215:LYS:HE3	1:B:254:GLU:HB2	2.03	0.41
1:C:225:LEU:HD11	1:C:231:VAL:CG1	2.39	0.41
1:A:231:VAL:O	1:A:231:VAL:HG13	2.20	0.41
1:B:239:TRP:CD2	1:C:268:PRO:HG2	2.56	0.41
1:C:204:ASP:CG	1:C:205:PRO:HD2	2.40	0.41
1:C:310:TYR:HA	1:C:314:ILE:HG21	2.01	0.41
1:A:80:VAL:HG21	1:A:159:VAL:CG1	2.49	0.41
1:A:127:ILE:HD13	1:A:217:PHE:CZ	2.55	0.41
1:B:172:GLU:O	1:B:173:ASP:C	2.58	0.41
1:B:264:TRP:HA	1:B:276:GLY:HA2	2.02	0.41
1:D:60:HIS:HE1	1:D:272:SER:N	2.19	0.41
1:A:215:LYS:H	1:A:216:PRO:CD	2.33	0.41
1:C:86:TYR:CD2	1:C:101:ARG:HD3	2.56	0.41
1:D:231:VAL:HG23	1:D:280:CYS:HB2	2.01	0.41
1:D:257:LYS:HD3	2:D:417:HOH:O	2.21	0.41
1:A:329:ILE:O	1:A:329:ILE:CG2	2.66	0.41
1:B:135:LEU:HA	1:B:135:LEU:HD23	1.82	0.41
1:B:275:ILE:O	1:B:275:ILE:HG23	2.19	0.41
1:B:66:LYS:HG3	2:B:383:HOH:O	2.20	0.41
1:B:146:GLN:HA	1:B:175:ARG:HB3	2.03	0.41
1:D:186:PHE:O	1:D:190:ALA:HB2	2.20	0.41
1:D:232:CYS:HA	1:D:278:MSE:O	2.20	0.41
1:D:261:ASN:HB3	1:D:319:PHE:CE1	2.56	0.41
1:D:60:HIS:CE1	1:D:271:PRO:HA	2.56	0.41
1:D:210:LYS:O	1:D:214:GLU:HG3	2.20	0.41
1:A:98:LEU:C	1:A:98:LEU:HD12	2.41	0.41
1:A:125:LEU:HD13	1:A:186:PHE:HE1	1.85	0.41
1:A:310:TYR:CD1	1:A:310:TYR:C	2.94	0.41
1:C:267:VAL:HG11	1:C:270:TYR:CE2	2.56	0.41
1:D:108:GLU:HB3	1:D:310:TYR:CB	2.50	0.41
1:D:123:LYS:HG3	1:D:146:GLN:HB3	2.03	0.41
1:A:154:LYS:HG3	1:A:180:ILE:HD13	2.02	0.41
1:A:151:GLU:O	1:A:180:ILE:HA	2.20	0.41
1:A:214:GLU:HA	1:A:251:ASN:HD22	1.83	0.41
1:B:74:ASP:OD1	1:B:74:ASP:O	2.38	0.41
1:B:113:LEU:HG	1:B:279:LEU:HD21	2.03	0.41
1:B:264:TRP:H	1:B:264:TRP:HD1	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:50:GLU:HG2	1:C:55:TRP:CZ2	2.52	0.41
1:A:154:LYS:C	1:A:156:VAL:N	2.74	0.41
1:A:249:VAL:HA	1:A:278:MSE:HE2	2.02	0.41
1:A:307:LEU:HD12	1:A:307:LEU:H	1.85	0.41
1:B:157:VAL:O	1:B:161:LYS:HG3	2.21	0.41
1:C:178:LEU:HD12	1:C:179:VAL:H	1.85	0.41
1:A:72:LYS:NZ	1:C:52:SER:HA	2.35	0.41
1:B:173:ASP:HB2	2:B:361:HOH:O	2.20	0.41
1:B:253:ARG:HG3	2:B:371:HOH:O	2.21	0.41
1:D:151:GLU:OE1	1:D:152:ILE:N	2.54	0.41
1:D:225:LEU:HD11	1:D:231:VAL:CG2	2.38	0.41
1:B:49:SER:CB	1:B:51:MSE:HE2	2.50	0.41
1:B:114:PRO:HB3	1:B:279:LEU:CD1	2.50	0.41
1:C:66:LYS:HD3	2:C:447:HOH:O	2.20	0.41
1:A:124:VAL:O	1:A:147:ILE:HA	2.21	0.41
1:C:132:GLY:O	1:C:135:LEU:HB3	2.21	0.41
1:D:76:GLN:HB2	1:D:93:ASP:CG	2.41	0.41
1:A:99:THR:HG22	1:A:101:ARG:H	1.86	0.41
1:A:108:GLU:HB3	1:A:112:HIS:HD2	1.86	0.41
1:A:244:ILE:O	1:A:244:ILE:HG22	2.21	0.41
1:C:73:SER:CA	1:C:155:MSE:SE	3.19	0.41
1:C:192:GLU:HA	1:C:223:ARG:O	2.21	0.41
1:A:121:PRO:O	1:A:144:ILE:HD13	2.20	0.41
1:B:241:HIS:HD2	2:B:376:HOH:O	2.04	0.41
1:C:140:ARG:NH2	1:C:305:GLY:O	2.53	0.41
1:C:310:TYR:CD1	1:C:310:TYR:C	2.94	0.41
1:D:167:VAL:C	1:D:169:ILE:N	2.74	0.41
1:D:182:ASP:OD2	1:D:184:VAL:HB	2.21	0.41
1:A:279:LEU:HD22	1:A:279:LEU:H	1.85	0.41
1:B:103:GLU:CD	1:B:167:VAL:HG11	2.40	0.41
1:B:259:SER:O	1:B:280:CYS:HA	2.21	0.41
1:D:186:PHE:CD1	1:D:186:PHE:C	2.93	0.41
1:A:258:GLY:HA3	1:A:281:SER:OG	2.19	0.41
1:B:109:MSE:CE	1:B:318:ALA:HB2	2.51	0.41
1:B:230:VAL:HG12	1:B:281:SER:HB3	2.03	0.41
1:B:308:LYS:O	1:C:323:SER:HB2	2.21	0.41
1:C:63:LYS:O	1:C:63:LYS:HG3	2.21	0.41
1:C:200:VAL:CG2	1:C:233:THR:HG22	2.51	0.41
1:A:118:ILE:HG13	1:A:118:ILE:O	2.21	0.41
1:C:80:VAL:HA	1:C:89:VAL:O	2.21	0.41
1:C:329:ILE:O	1:C:330:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:123:LYS:HD3	1:D:194:SER:O	2.21	0.41
1:D:163:PHE:O	1:D:165:PRO:HD3	2.21	0.41
1:A:195:TYR:O	1:A:226:ARG:HG3	2.19	0.41
1:B:124:VAL:HG22	1:B:197:ALA:HB3	2.03	0.41
1:A:170:GLY:C	1:A:172:GLU:N	2.73	0.41
1:B:136:ARG:NH1	1:B:137:GLU:OE2	2.53	0.41
1:A:69:PHE:CD1	1:A:69:PHE:C	2.93	0.41
1:A:242:MSE:HE2	1:A:242:MSE:CA	2.36	0.41
1:A:267:VAL:CG1	1:A:270:TYR:CD2	3.04	0.41
1:A:301:SER:O	1:A:302:LYS:C	2.58	0.41
1:D:148:ASP:OD1	1:D:177:ASN:ND2	2.44	0.41
1:D:169:ILE:HA	1:D:172:GLU:OE1	2.21	0.41
1:A:125:LEU:HA	1:A:148:ASP:O	2.21	0.41
1:A:249:VAL:O	1:A:253:ARG:HG3	2.20	0.41
1:A:290:LYS:HD3	2:A:373:HOH:O	2.21	0.41
1:A:327:LYS:HB3	1:A:327:LYS:HE2	1.89	0.41
1:B:41:SER:C	1:B:51:MSE:HE3	2.41	0.41
1:B:288:ASP:OD1	1:B:290:LYS:N	2.51	0.41
1:B:324:PHE:CD1	1:B:324:PHE:C	2.94	0.41
1:C:107:GLN:CD	1:C:133:GLY:HA3	2.41	0.41
1:C:161:LYS:HA	1:C:168:ALA:HB2	2.02	0.41
1:C:236:GLU:HB3	1:C:241:HIS:CD2	2.56	0.41
1:D:98:LEU:HD12	1:D:98:LEU:O	2.21	0.41
1:D:109:MSE:CG	1:D:277:PHE:CE2	3.03	0.41
1:D:134:VAL:O	1:D:138:VAL:HG23	2.21	0.41
1:D:149:MSE:HB3	1:D:178:LEU:HA	2.03	0.41
1:D:256:PHE:CD1	1:D:282:THR:CG2	3.04	0.41
1:A:214:GLU:CB	1:A:216:PRO:HD2	2.51	0.41
1:C:147:ILE:HB	1:C:175:ARG:O	2.21	0.41
1:D:110:ILE:HG23	1:D:111:THR:N	2.35	0.41
1:D:217:PHE:O	1:D:220:SER:HB3	2.20	0.41
1:D:310:TYR:CD1	1:D:310:TYR:C	2.94	0.41
1:A:50:GLU:O	1:A:50:GLU:HG2	2.21	0.41
1:A:85:THR:HG21	1:D:56:PRO:O	2.21	0.41
1:A:132:GLY:HA2	1:A:135:LEU:HD13	2.02	0.41
1:A:144:ILE:HB	1:A:175:ARG:NH1	2.36	0.41
1:A:278:MSE:O	1:A:279:LEU:C	2.59	0.41
1:B:43:VAL:C	1:B:44:ILE:HG13	2.42	0.41
1:B:109:MSE:HE2	1:B:109:MSE:HB3	2.00	0.41
1:B:155:MSE:O	1:B:159:VAL:HG23	2.20	0.41
1:C:60:HIS:CE1	2:C:373:HOH:O	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:206:ILE:CG2	1:C:207:GLY:N	2.84	0.41
1:D:83:SER:HG	1:D:86:TYR:H	1.69	0.41
1:D:206:ILE:HG23	1:D:207:GLY:N	2.35	0.41
1:D:215:LYS:N	1:D:216:PRO:CD	2.84	0.41
1:A:48:PHE:O	1:A:61:SER:HA	2.20	0.41
1:A:86:TYR:O	1:A:99:THR:HG23	2.21	0.41
1:A:133:GLY:O	1:A:134:VAL:C	2.59	0.41
1:A:192:GLU:HB2	1:A:223:ARG:HH12	1.86	0.41
1:A:308:LYS:HD3	1:A:308:LYS:N	2.36	0.41
1:B:51:MSE:CG	2:B:377:HOH:O	2.68	0.41
1:B:232:CYS:HA	1:B:278:MSE:O	2.21	0.41
1:C:301:SER:CB	1:C:304:ASN:HD22	2.14	0.41
1:D:79:ILE:HD12	2:D:495:HOH:O	2.21	0.41
1:D:150:CYS:HA	1:D:179:VAL:O	2.20	0.41
1:A:49:SER:O	1:A:51:MSE:SE	2.89	0.41
1:A:259:SER:O	1:A:281:SER:N	2.53	0.41
1:B:38:ALA:C	1:B:40:PHE:H	2.24	0.41
1:B:97:GLN:O	1:B:98:LEU:CB	2.69	0.41
1:B:178:LEU:HD12	1:B:179:VAL:N	2.36	0.41
1:C:102:ASP:OD2	1:C:268:PRO:HD2	2.21	0.41
1:C:124:VAL:O	1:C:147:ILE:HA	2.20	0.41
1:C:125:LEU:HD22	1:C:195:TYR:CE2	2.55	0.41
1:D:92:LEU:HD21	1:D:156:VAL:CG2	2.50	0.41
1:A:67:VAL:O	1:C:46:GLY:HA2	2.20	0.41
1:A:76:GLN:HG3	1:A:78:VAL:HG22	2.03	0.41
1:A:267:VAL:CG1	1:A:270:TYR:CD2	3.01	0.41
1:B:98:LEU:HB2	1:B:103:GLU:HG2	2.02	0.41
1:C:113:LEU:N	1:C:114:PRO:HD2	2.36	0.41
1:C:137:GLU:CD	1:C:140:ARG:HE	2.24	0.41
1:C:238:LEU:HD22	1:C:242:MSE:HE1	2.03	0.41
1:D:193:GLY:HA2	1:D:225:LEU:O	2.21	0.41
1:A:270:TYR:HA	1:A:271:PRO:HD2	1.89	0.41
1:B:110:ILE:HG13	1:B:232:CYS:SG	2.61	0.41
1:B:323:SER:O	1:B:326:LYS:N	2.51	0.41
1:B:326:LYS:HG2	1:B:330:GLU:HB2	2.03	0.41
1:C:150:CYS:HA	1:C:179:VAL:O	2.20	0.41
1:D:76:GLN:OE1	1:D:92:LEU:HB3	2.21	0.41
1:D:113:LEU:N	1:D:114:PRO:CD	2.83	0.41
1:D:183:GLY:HA2	1:D:186:PHE:HB3	2.02	0.41
1:C:236:GLU:O	1:C:276:GLY:N	2.54	0.41
1:A:154:LYS:CB	1:A:180:ILE:HD13	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:238:LEU:CD1	1:A:322:PRO:HD2	2.51	0.41
1:B:107:GLN:OE1	1:B:133:GLY:HA3	2.21	0.41
1:B:145:GLU:O	1:B:175:ARG:HG2	2.21	0.41
1:B:229:GLY:O	1:B:281:SER:HA	2.21	0.41
1:C:80:VAL:HG21	1:C:159:VAL:HG11	2.03	0.41
1:C:254:GLU:O	1:C:255:ILE:HD13	2.21	0.41
1:D:127:ILE:N	1:D:199:ILE:O	2.54	0.41
1:A:69:PHE:CD1	1:A:69:PHE:C	2.94	0.41
1:B:46:GLY:N	1:C:41:SER:OG	2.43	0.41
1:C:165:PRO:C	1:C:167:VAL:N	2.73	0.41
1:A:122:LYS:NZ	2:A:417:HOH:O	2.51	0.41
1:A:171:TYR:CE1	1:A:178:LEU:HD22	2.56	0.41
1:A:296:ILE:CG2	1:A:300:SER:HB2	2.51	0.41
1:B:217:PHE:O	1:B:220:SER:HB3	2.21	0.41
1:C:48:PHE:HE2	1:C:96:ILE:HD11	1.85	0.41
1:C:220:SER:HA	1:C:223:ARG:HG2	2.03	0.41
1:A:69:PHE:CZ	1:A:155:MSE:SE	3.24	0.41
1:B:213:PHE:HA	1:B:218:PHE:HE2	1.86	0.41
1:C:69:PHE:O	1:C:80:VAL:HG23	2.21	0.41
1:D:130:GLY:HA2	2:D:553:HOH:O	2.21	0.41
1:A:98:LEU:HD21	1:A:131:ASP:HB3	2.03	0.41
1:A:54:MSE:O	1:A:241:HIS:HE1	2.04	0.41
1:C:236:GLU:HB3	1:C:241:HIS:CD2	2.56	0.41
1:D:163:PHE:O	1:D:165:PRO:HD3	2.21	0.41
1:D:51:MSE:CB	2:D:352:HOH:O	2.68	0.41
1:D:54:MSE:HB3	1:D:241:HIS:CE1	2.55	0.41
1:B:252:CYS:SG	1:B:278:MSE:HE2	2.62	0.40
1:C:123:LYS:HD3	1:C:194:SER:O	2.21	0.40
1:C:133:GLY:O	1:C:136:ARG:HB3	2.21	0.40
1:A:311:ASN:H	1:A:314:ILE:HG22	1.86	0.40
1:C:82:GLN:HE21	1:C:82:GLN:HA	1.86	0.40
1:C:110:ILE:HG12	1:C:199:ILE:HG23	2.04	0.40
1:C:164:PHE:HB3	1:C:167:VAL:HB	2.03	0.40
1:C:205:PRO:HB3	1:C:213:PHE:CD1	2.56	0.40
1:D:113:LEU:HD23	1:D:315:HIS:ND1	2.36	0.40
1:D:196:ASP:OD1	1:D:226:ARG:HD3	2.21	0.40
1:A:43:VAL:HG13	1:D:43:VAL:HA	2.03	0.40
1:C:87:GLY:N	2:C:565:HOH:O	2.50	0.40
1:C:265:THR:OG1	1:C:267:VAL:CG2	2.68	0.40
1:A:47:TRP:CE3	1:A:61:SER:OG	2.72	0.40
1:A:268:PRO:HG2	1:D:239:TRP:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:187:LEU:HD21	1:C:221:VAL:HA	2.03	0.40
1:A:108:GLU:OE1	1:A:309:PHE:N	2.55	0.40
1:A:154:LYS:CB	1:A:180:ILE:HD13	2.51	0.40
1:C:206:ILE:HG23	1:C:207:GLY:N	2.36	0.40
1:D:157:VAL:HG11	1:D:178:LEU:HD21	2.02	0.40
1:D:215:LYS:HG3	2:D:407:HOH:O	2.20	0.40
1:D:223:ARG:HH11	1:D:223:ARG:HG2	1.86	0.40
1:C:283:GLU:HG2	1:C:283:GLU:O	2.21	0.40
1:D:259:SER:O	1:D:281:SER:N	2.48	0.40
1:A:70:GLN:HE21	1:A:79:ILE:CD1	2.34	0.40
1:B:54:MSE:HB2	1:B:55:TRP:CE3	2.56	0.40
1:B:291:HIS:HA	1:B:292:PRO:HD2	1.79	0.40
1:C:254:GLU:O	1:C:255:ILE:HG12	2.21	0.40
1:C:271:PRO:O	1:C:272:SER:CB	2.66	0.40
1:D:69:PHE:CE2	1:D:159:VAL:HG21	2.56	0.40
1:D:222:ALA:HB2	1:D:256:PHE:CE1	2.56	0.40
1:A:226:ARG:NH1	2:A:413:HOH:O	2.54	0.40
1:A:324:PHE:CD1	1:A:324:PHE:C	2.94	0.40
1:A:328:VAL:C	1:A:330:GLU:N	2.74	0.40
1:B:78:VAL:HG22	1:B:92:LEU:CD2	2.51	0.40
1:B:88:LYS:O	1:B:99:THR:HA	2.22	0.40
1:C:110:ILE:HG23	1:C:111:THR:N	2.35	0.40
1:D:183:GLY:O	1:D:187:LEU:N	2.42	0.40
1:A:206:ILE:CG2	1:A:207:GLY:N	2.83	0.40
1:B:47:TRP:HZ2	2:B:377:HOH:O	2.04	0.40
1:C:80:VAL:HG21	1:C:159:VAL:HG12	2.04	0.40
1:C:269:THR:H	1:C:269:THR:HG1	1.62	0.40
1:D:159:VAL:HG13	1:D:163:PHE:CD2	2.57	0.40
1:A:55:TRP:HB2	1:A:58:GLU:CG	2.51	0.40
1:B:291:HIS:HA	1:B:292:PRO:HD2	1.80	0.40
1:D:328:VAL:HG23	1:D:329:ILE:HG13	2.02	0.40
1:A:61:SER:HB2	1:D:59:ALA:HB3	2.03	0.40
1:A:121:PRO:HA	2:A:386:HOH:O	2.21	0.40
1:A:153:ASP:OD1	1:A:155:MSE:HB3	2.21	0.40
1:B:44:ILE:HB	1:B:47:TRP:HB2	2.03	0.40
1:B:241:HIS:CD2	2:B:376:HOH:O	2.73	0.40
1:C:262:TYR:HD1	1:C:278:MSE:SE	2.54	0.40
1:C:329:ILE:O	1:C:329:ILE:HG22	2.21	0.40
1:D:114:PRO:HG2	1:D:115:LEU:H	1.86	0.40
1:A:112:HIS:HB3	1:A:116:CYS:SG	2.61	0.40
1:A:310:TYR:O	1:A:311:ASN:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:MSE:HB2	1:B:55:TRP:CE3	2.56	0.40
1:C:137:GLU:OE1	1:C:140:ARG:NE	2.52	0.40
1:D:152:ILE:HG23	1:D:153:ASP:N	2.36	0.40
1:D:223:ARG:NH2	2:D:526:HOH:O	2.54	0.40
1:D:270:TYR:HD2	1:D:275:ILE:HD13	1.85	0.40
1:A:125:LEU:HD13	1:A:186:PHE:CE1	2.56	0.40
1:A:239:TRP:CD2	1:D:268:PRO:HG2	2.56	0.40
1:B:98:LEU:HD12	1:B:98:LEU:O	2.21	0.40
1:D:180:ILE:O	1:D:180:ILE:HG22	2.21	0.40
1:D:219:GLN:O	1:D:223:ARG:HB2	2.21	0.40
1:A:279:LEU:HB3	1:A:289:PHE:CE2	2.56	0.40
1:D:182:ASP:HA	2:D:502:HOH:O	2.21	0.40
1:D:248:ILE:HG22	1:D:278:MSE:SE	2.72	0.40
1:A:238:LEU:O	1:A:242:MSE:HE3	2.20	0.40
1:B:45:PRO:HD3	1:C:43:VAL:HG21	2.02	0.40
1:C:100:GLU:HA	1:C:103:GLU:OE2	2.21	0.40
1:A:304:ASN:C	1:A:304:ASN:HD22	2.25	0.40
1:C:61:SER:C	1:C:62:LEU:HD12	2.42	0.40
1:C:296:ILE:CG2	1:C:307:LEU:HD11	2.48	0.40
1:A:79:ILE:HG22	1:A:80:VAL:N	2.36	0.40
1:B:120:ASN:O	1:B:122:LYS:HD2	2.22	0.40
1:B:320:CYS:C	1:B:321:LEU:HD23	2.39	0.40
1:C:51:MSE:HA	1:C:59:ALA:HB2	2.03	0.40
1:C:309:PHE:O	1:C:310:TYR:O	2.39	0.40
1:A:249:VAL:HA	1:A:278:MSE:SE	2.72	0.40
1:A:296:ILE:HG23	1:A:300:SER:HB2	2.02	0.40
1:B:105:ALA:O	1:B:106:TYR:C	2.59	0.40
1:B:257:LYS:HE3	1:B:283:GLU:CB	2.51	0.40
1:C:76:GLN:HB2	1:C:93:ASP:OD1	2.22	0.40
1:C:123:LYS:HD2	1:C:146:GLN:OE1	2.21	0.40
1:C:310:TYR:CD1	1:C:310:TYR:C	2.95	0.40
1:D:127:ILE:HG21	1:D:183:GLY:HA3	2.03	0.40
1:D:200:VAL:C	1:D:202:SER:H	2.24	0.40
1:C:65:GLU:OE2	1:C:82:GLN:HG2	2.22	0.40
1:C:247:ASP:O	1:C:251:ASN:ND2	2.54	0.40
1:C:43:VAL:HG12	1:C:44:ILE:O	2.22	0.40
1:C:278:MSE:SE	1:C:279:LEU:N	3.05	0.40
1:D:214:GLU:HG3	2:D:407:HOH:O	2.21	0.40
1:D:245:ILE:HD13	1:D:262:TYR:OH	2.21	0.40
1:A:230:VAL:CA	1:A:280:CYS:O	2.64	0.40
1:A:298:GLU:O	1:A:300:SER:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:323:SER:O	1:A:326:LYS:HB3	2.20	0.40
1:D:40:PHE:O	1:D:42:THR:N	2.53	0.40
1:D:107:GLN:O	1:D:111:THR:HG23	2.21	0.40
1:D:198:VAL:N	1:D:231:VAL:HG22	2.36	0.40
1:A:72:LYS:HB3	1:C:51:MSE:CB	2.48	0.40
1:B:187:LEU:O	1:B:189:ASN:N	2.54	0.40
1:B:313:GLU:OE1	1:C:326:LYS:HE3	2.21	0.40
1:C:110:ILE:CG2	1:C:111:THR:N	2.84	0.40
1:D:288:ASP:C	1:D:290:LYS:H	2.23	0.40
1:A:173:ASP:HA	1:A:174:PRO:HD3	1.92	0.40
1:B:110:ILE:HG23	1:B:111:THR:N	2.35	0.40
1:C:128:GLY:O	1:C:129:GLY:C	2.60	0.40
1:C:137:GLU:CD	1:C:140:ARG:HE	2.24	0.40
1:C:242:MSE:HE2	1:C:325:ALA:HA	2.02	0.40
1:D:162:GLN:HE21	1:D:163:PHE:N	2.19	0.40
1:C:43:VAL:CG1	1:C:44:ILE:N	2.85	0.40
1:C:80:VAL:HG21	1:C:159:VAL:CG1	2.51	0.40
1:C:131:ASP:HB2	1:C:167:VAL:HG11	2.04	0.40
1:D:110:ILE:HB	1:D:277:PHE:HE1	1.87	0.40
1:A:169:ILE:O	1:A:172:GLU:HB2	2.21	0.40
1:B:319:PHE:O	1:B:321:LEU:HG	2.22	0.40
1:C:123:LYS:HD3	1:C:194:SER:O	2.21	0.40
1:C:169:ILE:O	1:C:171:TYR:N	2.54	0.40
1:A:209:ALA:HA	1:A:211:GLU:OE1	2.22	0.40
1:A:256:PHE:CG	1:A:280:CYS:HB3	2.56	0.40
1:A:264:TRP:HA	1:A:275:ILE:O	2.22	0.40
1:A:288:ASP:OD2	1:A:291:HIS:HB2	2.22	0.40
1:A:327:LYS:HE2	1:A:327:LYS:HB3	1.92	0.40
1:B:242:MSE:O	1:B:246:GLU:N	2.54	0.40
1:C:301:SER:HB3	1:C:304:ASN:ND2	2.16	0.40
1:A:170:GLY:O	1:A:172:GLU:N	2.54	0.40
1:A:288:ASP:C	1:A:290:LYS:H	2.25	0.40
1:A:289:PHE:O	1:A:315:HIS:NE2	2.51	0.40
1:D:260:VAL:HG12	1:D:278:MSE:HE1	2.04	0.40
1:A:98:LEU:HD12	1:A:98:LEU:C	2.42	0.40
1:A:311:ASN:HB3	1:D:323:SER:OG	2.22	0.40
1:C:82:GLN:OE1	1:C:88:LYS:HG2	2.21	0.40
1:B:172:GLU:OE2	2:B:414:HOH:O	2.22	0.40
1:B:178:LEU:HD12	1:B:179:VAL:N	2.35	0.40
1:B:284:GLY:O	1:B:285:PRO:C	2.59	0.40
1:D:257:LYS:NZ	2:D:510:HOH:O	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:SER:HA	1:B:60:HIS:O	2.21	0.40
1:B:98:LEU:HD11	1:B:164:PHE:CE1	2.56	0.40
1:B:115:LEU:HD23	1:B:141:HIS:CD2	2.56	0.40
1:B:173:ASP:HA	1:B:174:PRO:HD3	1.97	0.40
1:C:129:GLY:H	1:C:151:GLU:HB2	1.85	0.40
1:D:125:LEU:HD12	1:D:126:VAL:N	2.34	0.40
1:D:238:LEU:HD21	1:D:329:ILE:HD11	2.03	0.40
1:A:239:TRP:O	1:A:240:LEU:HD23	2.21	0.40
1:C:105:ALA:O	1:C:109:MSE:HG2	2.20	0.40
1:C:183:GLY:HA2	1:C:186:PHE:HB2	2.04	0.40
1:D:159:VAL:HG13	1:D:163:PHE:HD2	1.86	0.40
1:D:329:ILE:O	1:D:330:GLU:C	2.60	0.40
1:A:72:LYS:O	1:C:51:MSE:HE2	2.22	0.40
1:A:246:GLU:OE2	1:A:328:VAL:HG11	2.22	0.40
1:B:327:LYS:HD3	1:B:327:LYS:C	2.41	0.40
1:C:82:GLN:NE2	1:C:82:GLN:HA	2.37	0.40
1:D:218:PHE:O	1:D:221:VAL:N	2.55	0.40
1:A:88:LYS:O	1:A:99:THR:HA	2.22	0.40
1:B:54:MSE:HG3	1:B:55:TRP:CZ3	2.57	0.40
1:B:160:SER:HB3	1:B:167:VAL:HG21	2.04	0.40
1:A:64:VAL:HG12	1:A:65:GLU:N	2.36	0.40
1:A:139:ALA:HA	1:A:175:ARG:NH2	2.35	0.40
1:A:301:SER:HB3	1:A:304:ASN:OD1	2.21	0.40
1:B:236:GLU:HB3	1:B:237:SER:H	1.73	0.40
1:C:52:SER:HA	1:C:53:PRO:HD3	1.94	0.40
1:C:215:LYS:N	1:C:216:PRO:CD	2.84	0.40
1:C:244:ILE:HG22	1:C:248:ILE:HD12	2.02	0.40
1:A:76:GLN:HB2	1:A:93:ASP:CG	2.42	0.40
1:B:127:ILE:HD11	1:B:187:LEU:CD2	2.52	0.40
1:C:52:SER:HB3	1:C:55:TRP:CE2	2.57	0.40
1:C:152:ILE:CG2	1:C:153:ASP:N	2.84	0.40
1:C:329:ILE:O	1:C:329:ILE:HG22	2.22	0.40
1:D:161:LYS:HA	1:D:168:ALA:HB2	2.03	0.40
1:A:184:VAL:CG2	1:A:185:ALA:N	2.85	0.40
1:B:231:VAL:CG1	1:B:280:CYS:HB2	2.52	0.40
1:D:157:VAL:HG13	1:D:171:TYR:CZ	2.56	0.40
1:D:179:VAL:CG1	1:D:180:ILE:N	2.84	0.40
1:A:69:PHE:CD1	1:A:69:PHE:C	2.95	0.40
1:A:157:VAL:CG1	1:A:161:LYS:HE3	2.50	0.40
1:A:170:GLY:O	1:A:172:GLU:N	2.54	0.40
1:A:182:ASP:O	1:A:185:ALA:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:ASP:CG	1:A:244:ILE:H	2.24	0.40
1:A:263:ALA:O	1:A:276:GLY:HA2	2.22	0.40
1:B:200:VAL:O	1:B:200:VAL:HG12	2.22	0.40
1:B:292:PRO:HB3	1:B:315:HIS:CE1	2.57	0.40
1:C:311:ASN:H	1:C:314:ILE:HG22	1.87	0.40
1:D:164:PHE:HB2	1:D:167:VAL:CG2	2.51	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 X-ray entries followed by that with respect to entries of similar resolution.

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	288/334 (86%)	244 (85%)	33 (12%)	11 (4%)	3 7
1	1-B	281/334 (84%)	241 (86%)	33 (12%)	7 (2%)	5 14
1	1-C	288/334 (86%)	249 (86%)	29 (10%)	10 (4%)	3 8
1	1-D	281/334 (84%)	227 (81%)	44 (16%)	10 (4%)	3 7
1	2-A	288/334 (86%)	243 (84%)	32 (11%)	13 (4%)	2 5
1	2-B	281/334 (84%)	245 (87%)	31 (11%)	5 (2%)	8 21
1	2-C	288/334 (86%)	242 (84%)	33 (12%)	13 (4%)	2 5
1	2-D	281/334 (84%)	246 (88%)	28 (10%)	7 (2%)	5 14
1	3-A	288/334 (86%)	243 (84%)	31 (11%)	14 (5%)	2 4
1	3-B	281/334 (84%)	217 (77%)	47 (17%)	17 (6%)	1 2
1	3-C	288/334 (86%)	229 (80%)	46 (16%)	13 (4%)	2 5
1	3-D	281/334 (84%)	244 (87%)	33 (12%)	4 (1%)	11 28
1	4-A	288/334 (86%)	242 (84%)	31 (11%)	15 (5%)	2 3
1	4-B	281/334 (84%)	243 (86%)	28 (10%)	10 (4%)	3 7
1	4-C	288/334 (86%)	243 (84%)	30 (10%)	15 (5%)	2 3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	4-D	281/334 (84%)	233 (83%)	40 (14%)	8 (3%)	5 11
1	5-A	288/334 (86%)	232 (81%)	44 (15%)	12 (4%)	3 5
1	5-B	281/334 (84%)	242 (86%)	33 (12%)	6 (2%)	7 18
1	5-C	288/334 (86%)	233 (81%)	42 (15%)	13 (4%)	2 5
1	5-D	281/334 (84%)	225 (80%)	42 (15%)	14 (5%)	2 4
1	6-A	288/334 (86%)	241 (84%)	31 (11%)	16 (6%)	2 3
1	6-B	281/334 (84%)	234 (83%)	35 (12%)	12 (4%)	2 5
1	6-C	288/334 (86%)	238 (83%)	36 (12%)	14 (5%)	2 4
1	6-D	281/334 (84%)	234 (83%)	35 (12%)	12 (4%)	2 5
1	7-A	288/334 (86%)	234 (81%)	39 (14%)	15 (5%)	2 3
1	7-B	281/334 (84%)	247 (88%)	32 (11%)	2 (1%)	22 46
1	7-C	288/334 (86%)	248 (86%)	25 (9%)	15 (5%)	2 3
1	7-D	281/334 (84%)	235 (84%)	36 (13%)	10 (4%)	3 7
1	8-A	288/334 (86%)	249 (86%)	27 (9%)	12 (4%)	3 5
1	8-B	281/334 (84%)	229 (82%)	41 (15%)	11 (4%)	3 6
1	8-C	288/334 (86%)	242 (84%)	37 (13%)	9 (3%)	4 9
1	8-D	281/334 (84%)	240 (85%)	36 (13%)	5 (2%)	8 21
All	All	9104/10688 (85%)	7634 (84%)	1120 (12%)	350 (4%)	3 7

All (350) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1-A	69	PHE
1	1-A	298	GLU
1	1-B	167	VAL
1	1-B	236	GLU
1	1-C	165	PRO
1	1-C	236	GLU
1	1-D	172	GLU
1	1-D	312	ALA
1	2-A	93	ASP
1	2-B	236	GLU
1	2-C	191	ALA
1	2-C	297	ASP
1	2-D	131	ASP
1	2-D	191	ALA

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Mol	Chain	Res	Type
1	3-A	45	PRO
1	3-A	84	ALA
1	3-A	93	ASP
1	3-B	130	GLY
1	3-B	191	ALA
1	3-C	310	TYR
1	4-A	298	GLU
1	4-A	302	LYS
1	4-A	312	ALA
1	4-B	129	GLY
1	4-B	130	GLY
1	4-B	150	CYS
1	4-B	167	VAL
1	4-B	236	GLU
1	4-C	73	SER
1	4-C	192	GLU
1	4-C	206	ILE
1	4-C	214	GLU
1	4-C	215	LYS
1	4-C	236	GLU
1	4-D	202	SER
1	5-A	58	GLU
1	5-A	131	ASP
1	5-B	236	GLU
1	5-B	244	ILE
1	5-C	142	ALA
1	5-C	143	SER
1	5-D	323	SER
1	6-A	165	PRO
1	6-A	202	SER
1	6-B	151	GLU
1	6-B	194	SER
1	6-B	236	GLU
1	6-C	131	ASP
1	6-C	203	SER
1	6-C	236	GLU
1	6-D	131	ASP
1	6-D	329	ILE
1	7-A	93	ASP
1	7-A	183	GLY
1	7-A	318	ALA
1	7-B	131	ASP

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Mol	Chain	Res	Type
1	7-C	165	PRO
1	7-C	236	GLU
1	7-C	323	SER
1	7-D	131	ASP
1	8-A	131	ASP
1	8-A	298	GLU
1	8-A	302	LYS
1	8-B	236	GLU
1	8-C	226	ARG
1	8-D	52	SER
1	8-D	131	ASP
1	1-A	129	GLY
1	1-A	149	MSE
1	1-A	165	PRO
1	1-A	236	GLU
1	1-A	302	LYS
1	1-B	73	SER
1	1-B	131	ASP
1	1-C	298	GLU
1	1-D	142	ALA
1	1-D	323	SER
1	1-D	324	PHE
1	1-D	329	ILE
1	2-A	298	GLU
1	2-A	302	LYS
1	2-A	329	ILE
1	2-B	131	ASP
1	2-B	310	TYR
1	2-C	131	ASP
1	2-C	296	ILE
1	2-C	302	LYS
1	2-D	129	GLY
1	2-D	275	ILE
1	3-A	46	GLY
1	3-A	130	GLY
1	3-A	192	GLU
1	3-A	298	GLU
1	3-B	67	VAL
1	3-B	127	ILE
1	3-B	129	GLY
1	3-B	212	LEU
1	3-C	269	THR

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Mol	Chain	Res	Type
1	3-C	273	GLY
1	3-C	298	GLU
1	4-A	129	GLY
1	4-B	72	LYS
1	4-B	131	ASP
1	4-C	165	PRO
1	4-C	182	ASP
1	4-C	298	GLU
1	4-C	302	LYS
1	4-D	130	GLY
1	5-A	95	VAL
1	5-A	128	GLY
1	5-A	165	PRO
1	5-A	312	ALA
1	5-B	131	ASP
1	5-B	167	VAL
1	5-C	110	ILE
1	5-C	131	ASP
1	5-C	298	GLU
1	5-C	302	LYS
1	5-D	41	SER
1	5-D	110	ILE
1	5-D	130	GLY
1	5-D	202	SER
1	6-A	180	ILE
1	6-A	203	SER
1	6-A	243	ASP
1	6-A	258	GLY
1	6-A	283	GLU
1	6-A	298	GLU
1	6-A	301	SER
1	6-A	302	LYS
1	6-B	41	SER
1	6-B	129	GLY
1	6-B	131	ASP
1	6-B	241	HIS
1	6-C	298	GLU
1	6-D	39	CYS
1	6-D	73	SER
1	6-D	130	GLY
1	6-D	212	LEU
1	7-A	140	ARG

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Mol	Chain	Res	Type
1	7-A	142	ALA
1	7-A	206	ILE
1	7-A	236	GLU
1	7-A	283	GLU
1	7-A	297	ASP
1	7-C	69	PHE
1	7-C	298	GLU
1	7-D	130	GLY
1	7-D	236	GLU
1	7-D	272	SER
1	8-A	165	PRO
1	8-B	131	ASP
1	8-B	255	ILE
1	8-B	279	LEU
1	8-C	131	ASP
1	8-C	298	GLU
1	1-C	166	ASP
1	1-C	182	ASP
1	1-D	236	GLU
1	2-C	93	ASP
1	2-D	41	SER
1	3-A	69	PHE
1	3-A	302	LYS
1	3-B	131	ASP
1	3-B	172	GLU
1	3-B	173	ASP
1	3-B	208	PRO
1	3-B	324	PHE
1	3-C	272	SER
1	3-D	52	SER
1	3-D	236	GLU
1	3-D	292	PRO
1	4-A	131	ASP
1	4-A	236	GLU
1	4-B	328	VAL
1	4-D	114	PRO
1	4-D	131	ASP
1	4-D	236	GLU
1	5-A	236	GLU
1	5-A	289	PHE
1	5-C	111	THR
1	5-D	268	PRO

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Mol	Chain	Res	Type
1	5-D	329	ILE
1	6-A	114	PRO
1	6-A	171	TYR
1	6-A	214	GLU
1	6-C	101	ARG
1	6-C	302	LYS
1	6-D	139	ALA
1	7-A	114	PRO
1	7-A	202	SER
1	7-C	272	SER
1	7-C	302	LYS
1	7-D	73	SER
1	7-D	312	ALA
1	7-D	318	ALA
1	8-A	69	PHE
1	8-A	271	PRO
1	8-B	166	ASP
1	8-C	129	GLY
1	8-C	302	LYS
1	8-D	41	SER
1	1-A	300	SER
1	1-C	114	PRO
1	1-D	186	PHE
1	2-A	152	ILE
1	2-A	182	ASP
1	2-B	173	ASP
1	2-C	105	ALA
1	2-C	298	GLU
1	3-A	128	GLY
1	3-B	120	ASN
1	3-B	174	PRO
1	3-C	186	PHE
1	4-A	114	PRO
1	4-A	258	GLY
1	4-C	166	ASP
1	4-C	204	ASP
1	4-D	66	LYS
1	4-D	96	ILE
1	5-C	120	ASN
1	5-C	165	PRO
1	5-C	166	ASP
1	5-D	58	GLU

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Mol	Chain	Res	Type
1	5-D	246	GLU
1	6-B	295	PRO
1	6-C	296	ILE
1	6-D	236	GLU
1	7-A	321	LEU
1	7-C	114	PRO
1	7-C	209	ALA
1	7-C	255	ILE
1	8-A	236	GLU
1	8-B	167	VAL
1	8-B	188	LYS
1	8-C	191	ALA
1	8-D	114	PRO
1	1-A	202	SER
1	1-B	292	PRO
1	1-C	131	ASP
1	1-C	160	SER
1	1-D	42	THR
1	2-A	192	GLU
1	2-C	114	PRO
1	2-C	166	ASP
1	2-D	292	PRO
1	3-B	41	SER
1	3-C	59	ALA
1	3-C	243	ASP
1	3-C	296	ILE
1	3-D	290	LYS
1	4-A	180	ILE
1	4-A	272	SER
1	4-A	306	PRO
1	4-A	311	ASN
1	4-B	105	ALA
1	4-C	120	ASN
1	4-D	105	ALA
1	5-A	114	PRO
1	5-B	166	ASP
1	5-C	52	SER
1	5-D	66	LYS
1	5-D	203	SER
1	6-A	192	GLU
1	6-B	327	LYS
1	6-C	114	PRO

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Mol	Chain	Res	Type
1	6-C	297	ASP
1	6-D	272	SER
1	6-D	323	SER
1	7-C	202	SER
1	7-D	120	ASN
1	8-A	255	ILE
1	8-A	268	PRO
1	8-B	268	PRO
1	8-C	202	SER
1	8-D	286	ASP
1	1-A	301	SER
1	1-B	114	PRO
1	1-D	46	GLY
1	2-A	69	PHE
1	2-A	130	GLY
1	2-C	182	ASP
1	3-A	131	ASP
1	3-B	180	ILE
1	3-B	202	SER
1	3-C	255	ILE
1	3-C	268	PRO
1	4-A	318	ALA
1	4-B	292	PRO
1	5-A	306	PRO
1	5-B	114	PRO
1	5-D	45	PRO
1	6-B	98	LEU
1	6-B	142	ALA
1	6-C	102	ASP
1	6-C	312	ALA
1	6-D	327	LYS
1	7-A	289	PHE
1	7-C	207	GLY
1	7-D	204	ASP
1	8-A	212	LEU
1	8-A	258	GLY
1	8-C	69	PHE
1	1-B	258	GLY
1	2-A	114	PRO
1	2-A	258	GLY
1	2-C	165	PRO
1	3-A	296	ILE

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Mol	Chain	Res	Type
1	4-C	205	PRO
1	5-D	167	VAL
1	6-C	268	PRO
1	7-C	205	PRO
1	8-A	152	ILE
1	1-C	129	GLY
1	2-C	244	ILE
1	3-A	114	PRO
1	3-B	152	ILE
1	3-C	114	PRO
1	4-C	114	PRO
1	5-A	96	ILE
1	5-D	292	PRO
1	6-A	179	VAL
1	6-B	144	ILE
1	6-C	244	ILE
1	7-A	120	ASN
1	7-A	130	GLY
1	1-C	205	PRO
1	2-A	296	ILE
1	2-B	268	PRO
1	3-C	170	GLY
1	4-A	130	GLY
1	4-A	296	ILE
1	5-A	258	GLY
1	6-D	206	ILE
1	7-C	329	ILE
1	7-D	206	ILE
1	8-B	129	GLY
1	1-A	258	GLY
1	2-D	274	VAL
1	3-A	258	GLY
1	5-C	114	PRO
1	5-C	292	PRO
1	6-A	296	ILE
1	7-B	329	ILE
1	7-C	167	VAL
1	8-B	52	SER
1	8-B	275	ILE
1	8-C	130	GLY
1	2-A	165	PRO
1	6-C	130	GLY

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 X-ray entries followed by that with respect to entries of similar resolution.

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	249/276 (90%)	245 (98%)	4 (2%)	62	85
1	1-B	243/276 (88%)	234 (96%)	9 (4%)	34	63
1	1-C	249/276 (90%)	244 (98%)	5 (2%)	55	81
1	1-D	243/276 (88%)	233 (96%)	10 (4%)	30	59
1	2-A	249/276 (90%)	242 (97%)	7 (3%)	43	73
1	2-B	243/276 (88%)	235 (97%)	8 (3%)	38	67
1	2-C	249/276 (90%)	240 (96%)	9 (4%)	35	64
1	2-D	243/276 (88%)	234 (96%)	9 (4%)	34	63
1	3-A	249/276 (90%)	240 (96%)	9 (4%)	35	64
1	3-B	243/276 (88%)	232 (96%)	11 (4%)	27	55
1	3-C	249/276 (90%)	237 (95%)	12 (5%)	25	53
1	3-D	243/276 (88%)	235 (97%)	8 (3%)	38	67
1	4-A	249/276 (90%)	237 (95%)	12 (5%)	25	53
1	4-B	243/276 (88%)	231 (95%)	12 (5%)	25	52
1	4-C	249/276 (90%)	239 (96%)	10 (4%)	31	60
1	4-D	243/276 (88%)	238 (98%)	5 (2%)	53	80
1	5-A	249/276 (90%)	234 (94%)	15 (6%)	19	42
1	5-B	243/276 (88%)	228 (94%)	15 (6%)	18	40
1	5-C	249/276 (90%)	240 (96%)	9 (4%)	35	64
1	5-D	243/276 (88%)	228 (94%)	15 (6%)	18	40
1	6-A	249/276 (90%)	236 (95%)	13 (5%)	23	49
1	6-B	243/276 (88%)	231 (95%)	12 (5%)	25	52
1	6-C	249/276 (90%)	238 (96%)	11 (4%)	28	56
1	6-D	243/276 (88%)	233 (96%)	10 (4%)	30	59
1	7-A	249/276 (90%)	231 (93%)	18 (7%)	14	34
1	7-B	243/276 (88%)	227 (93%)	16 (7%)	16	38

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	7-C	249/276 (90%)	244 (98%)	5 (2%)	55 81
1	7-D	243/276 (88%)	236 (97%)	7 (3%)	42 71
1	8-A	249/276 (90%)	241 (97%)	8 (3%)	39 68
1	8-B	243/276 (88%)	227 (93%)	16 (7%)	16 38
1	8-C	249/276 (90%)	241 (97%)	8 (3%)	39 68
1	8-D	243/276 (88%)	231 (95%)	12 (5%)	25 52
All	All	7872/8832 (89%)	7542 (96%)	330 (4%)	30 58

All (330) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1-A	115	LEU
1	1-A	260	VAL
1	1-A	264	TRP
1	1-A	304	ASN
1	1-B	60	HIS
1	1-B	113	LEU
1	1-B	115	LEU
1	1-B	162	GLN
1	1-B	167	VAL
1	1-B	233	THR
1	1-B	241	HIS
1	1-B	264	TRP
1	1-B	286	ASP
1	1-C	77	ASP
1	1-C	204	ASP
1	1-C	234	GLN
1	1-C	236	GLU
1	1-C	264	TRP
1	1-D	97	GLN
1	1-D	99	THR
1	1-D	109	MSE
1	1-D	116	CYS
1	1-D	162	GLN
1	1-D	166	ASP
1	1-D	226	ARG
1	1-D	234	GLN
1	1-D	264	TRP
1	1-D	330	GLU
1	2-A	54	MSE

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Mol	Chain	Res	Type
1	2-A	97	GLN
1	2-A	104	CYS
1	2-A	107	GLN
1	2-A	148	ASP
1	2-A	149	MSE
1	2-A	264	TRP
1	2-B	48	PHE
1	2-B	60	HIS
1	2-B	115	LEU
1	2-B	226	ARG
1	2-B	233	THR
1	2-B	264	TRP
1	2-B	272	SER
1	2-B	311	ASN
1	2-C	74	ASP
1	2-C	98	LEU
1	2-C	234	GLN
1	2-C	261	ASN
1	2-C	264	TRP
1	2-C	278	MSE
1	2-C	283	GLU
1	2-C	293	LEU
1	2-C	327	LYS
1	2-D	97	GLN
1	2-D	131	ASP
1	2-D	155	MSE
1	2-D	166	ASP
1	2-D	234	GLN
1	2-D	264	TRP
1	2-D	278	MSE
1	2-D	286	ASP
1	2-D	330	GLU
1	3-A	54	MSE
1	3-A	97	GLN
1	3-A	107	GLN
1	3-A	115	LEU
1	3-A	204	ASP
1	3-A	226	ARG
1	3-A	238	LEU
1	3-A	241	HIS
1	3-A	330	GLU
1	3-B	54	MSE

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Mol	Chain	Res	Type
1	3-B	60	HIS
1	3-B	74	ASP
1	3-B	76	GLN
1	3-B	97	GLN
1	3-B	115	LEU
1	3-B	166	ASP
1	3-B	234	GLN
1	3-B	241	HIS
1	3-B	264	TRP
1	3-B	316	SER
1	3-C	58	GLU
1	3-C	65	GLU
1	3-C	93	ASP
1	3-C	98	LEU
1	3-C	140	ARG
1	3-C	146	GLN
1	3-C	155	MSE
1	3-C	226	ARG
1	3-C	236	GLU
1	3-C	264	TRP
1	3-C	265	THR
1	3-C	311	ASN
1	3-D	51	MSE
1	3-D	68	LEU
1	3-D	162	GLN
1	3-D	166	ASP
1	3-D	226	ARG
1	3-D	234	GLN
1	3-D	264	TRP
1	3-D	286	ASP
1	4-A	66	LYS
1	4-A	97	GLN
1	4-A	115	LEU
1	4-A	122	LYS
1	4-A	187	LEU
1	4-A	204	ASP
1	4-A	211	GLU
1	4-A	239	TRP
1	4-A	241	HIS
1	4-A	264	TRP
1	4-A	296	ILE
1	4-A	306	PRO

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Mol	Chain	Res	Type
1	4-B	60	HIS
1	4-B	76	GLN
1	4-B	97	GLN
1	4-B	115	LEU
1	4-B	153	ASP
1	4-B	167	VAL
1	4-B	226	ARG
1	4-B	233	THR
1	4-B	241	HIS
1	4-B	264	TRP
1	4-B	278	MSE
1	4-B	324	PHE
1	4-C	48	PHE
1	4-C	60	HIS
1	4-C	220	SER
1	4-C	234	GLN
1	4-C	236	GLU
1	4-C	247	ASP
1	4-C	253	ARG
1	4-C	264	TRP
1	4-C	268	PRO
1	4-C	298	GLU
1	4-D	97	GLN
1	4-D	131	ASP
1	4-D	166	ASP
1	4-D	226	ARG
1	4-D	264	TRP
1	5-A	50	GLU
1	5-A	51	MSE
1	5-A	54	MSE
1	5-A	60	HIS
1	5-A	97	GLN
1	5-A	211	GLU
1	5-A	223	ARG
1	5-A	234	GLN
1	5-A	241	HIS
1	5-A	260	VAL
1	5-A	264	TRP
1	5-A	296	ILE
1	5-A	298	GLU
1	5-A	306	PRO
1	5-A	329	ILE

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Mol	Chain	Res	Type
1	5-B	60	HIS
1	5-B	113	LEU
1	5-B	115	LEU
1	5-B	116	CYS
1	5-B	149	MSE
1	5-B	166	ASP
1	5-B	167	VAL
1	5-B	220	SER
1	5-B	226	ARG
1	5-B	234	GLN
1	5-B	240	LEU
1	5-B	242	MSE
1	5-B	264	TRP
1	5-B	293	LEU
1	5-B	327	LYS
1	5-C	51	MSE
1	5-C	98	LEU
1	5-C	109	MSE
1	5-C	131	ASP
1	5-C	241	HIS
1	5-C	242	MSE
1	5-C	253	ARG
1	5-C	264	TRP
1	5-C	293	LEU
1	5-D	55	TRP
1	5-D	115	LEU
1	5-D	131	ASP
1	5-D	158	ASP
1	5-D	166	ASP
1	5-D	226	ARG
1	5-D	234	GLN
1	5-D	247	ASP
1	5-D	261	ASN
1	5-D	264	TRP
1	5-D	267	VAL
1	5-D	268	PRO
1	5-D	311	ASN
1	5-D	324	PHE
1	5-D	330	GLU
1	6-A	51	MSE
1	6-A	97	GLN
1	6-A	204	ASP

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Mol	Chain	Res	Type
1	6-A	234	GLN
1	6-A	241	HIS
1	6-A	259	SER
1	6-A	260	VAL
1	6-A	261	ASN
1	6-A	264	TRP
1	6-A	296	ILE
1	6-A	298	GLU
1	6-A	310	TYR
1	6-A	330	GLU
1	6-B	51	MSE
1	6-B	73	SER
1	6-B	97	GLN
1	6-B	115	LEU
1	6-B	131	ASP
1	6-B	214	GLU
1	6-B	219	GLN
1	6-B	223	ARG
1	6-B	253	ARG
1	6-B	264	TRP
1	6-B	274	VAL
1	6-B	293	LEU
1	6-C	60	HIS
1	6-C	99	THR
1	6-C	107	GLN
1	6-C	109	MSE
1	6-C	149	MSE
1	6-C	242	MSE
1	6-C	264	TRP
1	6-C	278	MSE
1	6-C	280	CYS
1	6-C	298	GLU
1	6-C	313	GLU
1	6-D	97	GLN
1	6-D	115	LEU
1	6-D	131	ASP
1	6-D	166	ASP
1	6-D	226	ARG
1	6-D	231	VAL
1	6-D	264	TRP
1	6-D	293	LEU
1	6-D	324	PHE

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Mol	Chain	Res	Type
1	6-D	330	GLU
1	7-A	51	MSE
1	7-A	88	LYS
1	7-A	97	GLN
1	7-A	107	GLN
1	7-A	115	LEU
1	7-A	117	SER
1	7-A	125	LEU
1	7-A	136	ARG
1	7-A	192	GLU
1	7-A	204	ASP
1	7-A	233	THR
1	7-A	264	TRP
1	7-A	265	THR
1	7-A	278	MSE
1	7-A	290	LYS
1	7-A	308	LYS
1	7-A	314	ILE
1	7-A	321	LEU
1	7-B	52	SER
1	7-B	60	HIS
1	7-B	74	ASP
1	7-B	97	GLN
1	7-B	107	GLN
1	7-B	109	MSE
1	7-B	115	LEU
1	7-B	149	MSE
1	7-B	166	ASP
1	7-B	187	LEU
1	7-B	221	VAL
1	7-B	226	ARG
1	7-B	234	GLN
1	7-B	264	TRP
1	7-B	265	THR
1	7-B	314	ILE
1	7-C	77	ASP
1	7-C	204	ASP
1	7-C	234	GLN
1	7-C	236	GLU
1	7-C	297	ASP
1	7-D	93	ASP
1	7-D	131	ASP

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Mol	Chain	Res	Type
1	7-D	166	ASP
1	7-D	226	ARG
1	7-D	264	TRP
1	7-D	266	SER
1	7-D	320	CYS
1	8-A	60	HIS
1	8-A	99	THR
1	8-A	115	LEU
1	8-A	226	ARG
1	8-A	234	GLN
1	8-A	241	HIS
1	8-A	264	TRP
1	8-A	265	THR
1	8-B	60	HIS
1	8-B	66	LYS
1	8-B	83	SER
1	8-B	115	LEU
1	8-B	149	MSE
1	8-B	166	ASP
1	8-B	167	VAL
1	8-B	178	LEU
1	8-B	189	ASN
1	8-B	220	SER
1	8-B	226	ARG
1	8-B	234	GLN
1	8-B	241	HIS
1	8-B	264	TRP
1	8-B	274	VAL
1	8-B	278	MSE
1	8-C	51	MSE
1	8-C	109	MSE
1	8-C	236	GLU
1	8-C	261	ASN
1	8-C	264	TRP
1	8-C	298	GLU
1	8-C	308	LYS
1	8-C	321	LEU
1	8-D	51	MSE
1	8-D	68	LEU
1	8-D	77	ASP
1	8-D	111	THR
1	8-D	166	ASP

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Mol	Chain	Res	Type
1	8-D	214	GLU
1	8-D	226	ARG
1	8-D	234	GLN
1	8-D	264	TRP
1	8-D	278	MSE
1	8-D	286	ASP
1	8-D	293	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (163) such sidechains are listed below:

Mol	Chain	Res	Type
1	1-A	70	GLN
1	1-A	82	GLN
1	1-A	97	GLN
1	1-A	241	HIS
1	1-B	82	GLN
1	1-B	120	ASN
1	1-B	146	GLN
1	1-B	234	GLN
1	1-C	70	GLN
1	1-C	82	GLN
1	1-C	107	GLN
1	1-C	162	GLN
1	1-C	241	HIS
1	1-C	261	ASN
1	1-C	304	ASN
1	1-D	60	HIS
1	1-D	70	GLN
1	1-D	120	ASN
1	1-D	146	GLN
1	1-D	162	GLN
1	1-D	234	GLN
1	1-D	261	ASN
1	2-A	70	GLN
1	2-A	82	GLN
1	2-A	97	GLN
1	2-A	107	GLN
1	2-A	241	HIS
1	2-A	251	ASN
1	2-A	261	ASN
1	2-B	120	ASN
1	2-B	146	GLN

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Mol	Chain	Res	Type
1	2-B	162	GLN
1	2-C	70	GLN
1	2-C	82	GLN
1	2-C	97	GLN
1	2-C	241	HIS
1	2-C	304	ASN
1	2-D	60	HIS
1	2-D	97	GLN
1	2-D	120	ASN
1	2-D	146	GLN
1	2-D	162	GLN
1	2-D	261	ASN
1	3-A	97	GLN
1	3-A	146	GLN
1	3-A	241	HIS
1	3-A	251	ASN
1	3-B	146	GLN
1	3-C	82	GLN
1	3-C	234	GLN
1	3-C	241	HIS
1	3-C	261	ASN
1	3-C	304	ASN
1	3-C	315	HIS
1	3-D	97	GLN
1	3-D	146	GLN
1	3-D	162	GLN
1	3-D	234	GLN
1	3-D	261	ASN
1	3-D	291	HIS
1	4-A	70	GLN
1	4-A	97	GLN
1	4-A	162	GLN
1	4-A	251	ASN
1	4-A	261	ASN
1	4-A	304	ASN
1	4-B	70	GLN
1	4-B	120	ASN
1	4-B	141	HIS
1	4-B	146	GLN
1	4-B	162	GLN
1	4-B	234	GLN
1	4-B	241	HIS

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Mol	Chain	Res	Type
1	4-C	107	GLN
1	4-C	219	GLN
1	4-C	241	HIS
1	4-C	261	ASN
1	4-C	304	ASN
1	4-D	60	HIS
1	4-D	97	GLN
1	4-D	162	GLN
1	4-D	234	GLN
1	4-D	261	ASN
1	5-A	70	GLN
1	5-A	76	GLN
1	5-A	97	GLN
1	5-A	241	HIS
1	5-A	251	ASN
1	5-B	76	GLN
1	5-B	97	GLN
1	5-B	107	GLN
1	5-B	120	ASN
1	5-C	70	GLN
1	5-C	82	GLN
1	5-C	251	ASN
1	5-C	261	ASN
1	5-C	304	ASN
1	5-D	60	HIS
1	5-D	70	GLN
1	5-D	97	GLN
1	5-D	177	ASN
1	5-D	251	ASN
1	5-D	311	ASN
1	6-A	70	GLN
1	6-A	162	GLN
1	6-A	261	ASN
1	6-B	70	GLN
1	6-B	82	GLN
1	6-B	97	GLN
1	6-B	146	GLN
1	6-B	177	ASN
1	6-B	234	GLN
1	6-C	76	GLN
1	6-C	97	GLN
1	6-C	146	GLN

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Mol	Chain	Res	Type
1	6-C	241	HIS
1	6-C	261	ASN
1	6-C	304	ASN
1	6-D	60	HIS
1	6-D	70	GLN
1	6-D	120	ASN
1	6-D	146	GLN
1	6-D	162	GLN
1	6-D	251	ASN
1	6-D	261	ASN
1	7-A	70	GLN
1	7-A	82	GLN
1	7-A	97	GLN
1	7-A	234	GLN
1	7-A	241	HIS
1	7-B	97	GLN
1	7-B	120	ASN
1	7-B	146	GLN
1	7-C	82	GLN
1	7-C	107	GLN
1	7-C	146	GLN
1	7-C	162	GLN
1	7-C	241	HIS
1	7-C	261	ASN
1	7-C	304	ASN
1	7-D	60	HIS
1	7-D	97	GLN
1	7-D	141	HIS
1	7-D	162	GLN
1	8-A	70	GLN
1	8-A	97	GLN
1	8-A	146	GLN
1	8-A	251	ASN
1	8-A	261	ASN
1	8-B	120	ASN
1	8-B	146	GLN
1	8-C	70	GLN
1	8-C	82	GLN
1	8-C	241	HIS
1	8-C	304	ASN
1	8-D	60	HIS
1	8-D	97	GLN

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Mol	Chain	Res	Type
1	8-D	120	ASN
1	8-D	146	GLN
1	8-D	162	GLN
1	8-D	189	ASN
1	8-D	261	ASN
1	8-D	291	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	1-A	283/334 (84%)	0.23	23 (8%) 12 10	12, 35, 82, 101	283 (100%)
1	1-B	278/334 (83%)	-0.12	9 (3%) 47 48	10, 30, 62, 100	278 (100%)
1	1-C	283/334 (84%)	0.33	36 (12%) 3 3	15, 35, 80, 112	283 (100%)
1	1-D	278/334 (83%)	0.06	12 (4%) 35 33	11, 31, 70, 104	278 (100%)
1	2-A	283/334 (84%)	0.23	23 (8%) 12 10	12, 35, 82, 101	283 (100%)
1	2-B	278/334 (83%)	-0.12	9 (3%) 47 48	10, 30, 62, 100	278 (100%)
1	2-C	283/334 (84%)	0.33	36 (12%) 3 3	15, 35, 80, 112	283 (100%)
1	2-D	278/334 (83%)	0.06	12 (4%) 35 33	11, 31, 70, 104	278 (100%)
1	3-A	283/334 (84%)	0.23	23 (8%) 12 10	12, 35, 82, 101	283 (100%)
1	3-B	278/334 (83%)	-0.12	9 (3%) 47 48	10, 30, 62, 100	278 (100%)
1	3-C	283/334 (84%)	0.33	36 (12%) 3 3	15, 35, 80, 112	283 (100%)
1	3-D	278/334 (83%)	0.06	12 (4%) 35 33	11, 31, 70, 104	278 (100%)
1	4-A	283/334 (84%)	0.23	23 (8%) 12 10	12, 35, 82, 101	283 (100%)
1	4-B	278/334 (83%)	-0.12	9 (3%) 47 48	10, 30, 62, 100	278 (100%)
1	4-C	283/334 (84%)	0.33	36 (12%) 3 3	15, 35, 80, 112	283 (100%)
1	4-D	278/334 (83%)	0.06	12 (4%) 35 33	11, 31, 70, 104	278 (100%)
1	5-A	283/334 (84%)	0.23	23 (8%) 12 10	12, 35, 82, 101	283 (100%)
1	5-B	278/334 (83%)	-0.12	9 (3%) 47 48	10, 30, 62, 100	278 (100%)
1	5-C	283/334 (84%)	0.33	36 (12%) 3 3	15, 35, 80, 112	283 (100%)
1	5-D	278/334 (83%)	0.06	12 (4%) 35 33	11, 31, 70, 104	278 (100%)
1	6-A	283/334 (84%)	0.23	23 (8%) 12 10	12, 35, 82, 101	283 (100%)
1	6-B	278/334 (83%)	-0.12	9 (3%) 47 48	10, 30, 62, 100	278 (100%)
1	6-C	283/334 (84%)	0.33	36 (12%) 3 3	15, 35, 80, 112	283 (100%)
1	6-D	278/334 (83%)	0.06	12 (4%) 35 33	11, 31, 70, 104	278 (100%)

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	7-A	283/334 (84%)	0.23	23 (8%) 12 10	12, 35, 82, 101	283 (100%)
1	7-B	278/334 (83%)	-0.12	9 (3%) 47 48	10, 30, 62, 100	278 (100%)
1	7-C	283/334 (84%)	0.33	36 (12%) 3 3	15, 35, 80, 112	283 (100%)
1	7-D	278/334 (83%)	0.06	12 (4%) 35 33	11, 31, 70, 104	278 (100%)
1	8-A	283/334 (84%)	0.23	23 (8%) 12 10	12, 35, 82, 101	283 (100%)
1	8-B	278/334 (83%)	-0.12	9 (3%) 47 48	10, 30, 62, 100	278 (100%)
1	8-C	283/334 (84%)	0.33	36 (12%) 3 3	15, 35, 80, 112	283 (100%)
1	8-D	278/334 (83%)	0.06	12 (4%) 35 33	11, 31, 70, 104	278 (100%)
All	All	8976/10688 (83%)	0.13	640 (7%) 15 14	10, 33, 75, 112	8976 (100%)

All (640) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1-C	207	GLY	10.5
1	2-C	207	GLY	10.5
1	3-C	207	GLY	10.5
1	4-C	207	GLY	10.5
1	5-C	207	GLY	10.5
1	6-C	207	GLY	10.5
1	7-C	207	GLY	10.5
1	8-C	207	GLY	10.5
1	1-A	206	ILE	6.2
1	2-A	206	ILE	6.2
1	3-A	206	ILE	6.2
1	4-A	206	ILE	6.2
1	5-A	206	ILE	6.2
1	6-A	206	ILE	6.2
1	7-A	206	ILE	6.2
1	8-A	206	ILE	6.2
1	1-C	166	ASP	5.8
1	2-C	166	ASP	5.8
1	3-C	166	ASP	5.8
1	4-C	166	ASP	5.8
1	5-C	166	ASP	5.8
1	6-C	166	ASP	5.8
1	7-C	166	ASP	5.8
1	8-C	166	ASP	5.8
1	1-C	301	SER	5.7
1	2-C	301	SER	5.7

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Mol	Chain	Res	Type	RSRZ
1	3-C	301	SER	5.7
1	4-C	301	SER	5.7
1	5-C	301	SER	5.7
1	6-C	301	SER	5.7
1	7-C	301	SER	5.7
1	8-C	301	SER	5.7
1	1-A	166	ASP	5.5
1	2-A	166	ASP	5.5
1	3-A	166	ASP	5.5
1	4-A	166	ASP	5.5
1	5-A	166	ASP	5.5
1	6-A	166	ASP	5.5
1	7-A	166	ASP	5.5
1	8-A	166	ASP	5.5
1	1-C	206	ILE	5.4
1	2-C	206	ILE	5.4
1	3-C	206	ILE	5.4
1	4-C	206	ILE	5.4
1	5-C	206	ILE	5.4
1	6-C	206	ILE	5.4
1	7-C	206	ILE	5.4
1	8-C	206	ILE	5.4
1	1-C	205	PRO	5.0
1	2-C	205	PRO	5.0
1	3-C	205	PRO	5.0
1	4-C	205	PRO	5.0
1	5-C	205	PRO	5.0
1	6-C	205	PRO	5.0
1	7-C	205	PRO	5.0
1	8-C	205	PRO	5.0
1	1-C	208	PRO	4.5
1	2-C	208	PRO	4.5
1	3-C	208	PRO	4.5
1	4-C	208	PRO	4.5
1	5-C	208	PRO	4.5
1	6-C	208	PRO	4.5
1	7-C	208	PRO	4.5
1	8-C	208	PRO	4.5
1	1-C	298	GLU	4.2
1	2-C	298	GLU	4.2
1	3-C	298	GLU	4.2
1	4-C	298	GLU	4.2

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Mol	Chain	Res	Type	RSRZ
1	5-C	298	GLU	4.2
1	6-C	298	GLU	4.2
1	7-C	298	GLU	4.2
1	8-C	298	GLU	4.2
1	1-C	169	ILE	4.2
1	2-C	169	ILE	4.2
1	3-C	169	ILE	4.2
1	4-C	169	ILE	4.2
1	5-C	169	ILE	4.2
1	6-C	169	ILE	4.2
1	7-C	169	ILE	4.2
1	8-C	169	ILE	4.2
1	1-C	227	PRO	4.0
1	2-C	227	PRO	4.0
1	3-C	227	PRO	4.0
1	4-C	227	PRO	4.0
1	5-C	227	PRO	4.0
1	6-C	227	PRO	4.0
1	7-C	227	PRO	4.0
1	8-C	227	PRO	4.0
1	1-D	39	CYS	4.0
1	2-D	39	CYS	4.0
1	3-D	39	CYS	4.0
1	4-D	39	CYS	4.0
1	5-D	39	CYS	4.0
1	6-D	39	CYS	4.0
1	7-D	39	CYS	4.0
1	8-D	39	CYS	4.0
1	1-D	129	GLY	3.9
1	2-D	129	GLY	3.9
1	3-D	129	GLY	3.9
1	4-D	129	GLY	3.9
1	5-D	129	GLY	3.9
1	6-D	129	GLY	3.9
1	7-D	129	GLY	3.9
1	8-D	129	GLY	3.9
1	1-C	129	GLY	3.7
1	2-C	129	GLY	3.7
1	3-C	129	GLY	3.7
1	4-C	129	GLY	3.7
1	5-C	129	GLY	3.7
1	6-C	129	GLY	3.7

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Mol	Chain	Res	Type	RSRZ
1	7-C	129	GLY	3.7
1	8-C	129	GLY	3.7
1	1-B	243	ASP	3.6
1	2-B	243	ASP	3.6
1	3-B	243	ASP	3.6
1	4-B	243	ASP	3.6
1	5-B	243	ASP	3.6
1	6-B	243	ASP	3.6
1	7-B	243	ASP	3.6
1	8-B	243	ASP	3.6
1	1-B	40	PHE	3.5
1	2-B	40	PHE	3.5
1	3-B	40	PHE	3.5
1	4-B	40	PHE	3.5
1	5-B	40	PHE	3.5
1	6-B	40	PHE	3.5
1	7-B	40	PHE	3.5
1	8-B	40	PHE	3.5
1	1-A	209	ALA	3.4
1	2-A	209	ALA	3.4
1	3-A	209	ALA	3.4
1	4-A	209	ALA	3.4
1	5-A	209	ALA	3.4
1	6-A	209	ALA	3.4
1	7-A	209	ALA	3.4
1	8-A	209	ALA	3.4
1	1-D	166	ASP	3.4
1	2-D	166	ASP	3.4
1	3-D	166	ASP	3.4
1	4-D	166	ASP	3.4
1	5-D	166	ASP	3.4
1	6-D	166	ASP	3.4
1	7-D	166	ASP	3.4
1	8-D	166	ASP	3.4
1	1-D	131	ASP	3.4
1	2-D	131	ASP	3.4
1	3-D	131	ASP	3.4
1	4-D	131	ASP	3.4
1	5-D	131	ASP	3.4
1	6-D	131	ASP	3.4
1	7-D	131	ASP	3.4
1	8-D	131	ASP	3.4

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Mol	Chain	Res	Type	RSRZ
1	1-A	208	PRO	3.3
1	2-A	208	PRO	3.3
1	3-A	208	PRO	3.3
1	4-A	208	PRO	3.3
1	5-A	208	PRO	3.3
1	6-A	208	PRO	3.3
1	7-A	208	PRO	3.3
1	8-A	208	PRO	3.3
1	1-A	169	ILE	3.2
1	2-A	169	ILE	3.2
1	3-A	169	ILE	3.2
1	4-A	169	ILE	3.2
1	5-A	169	ILE	3.2
1	6-A	169	ILE	3.2
1	7-A	169	ILE	3.2
1	8-A	169	ILE	3.2
1	1-C	209	ALA	3.2
1	2-C	209	ALA	3.2
1	3-C	209	ALA	3.2
1	4-C	209	ALA	3.2
1	5-C	209	ALA	3.2
1	6-C	209	ALA	3.2
1	7-C	209	ALA	3.2
1	8-C	209	ALA	3.2
1	1-D	40	PHE	3.2
1	2-D	40	PHE	3.2
1	3-D	40	PHE	3.2
1	4-D	40	PHE	3.2
1	5-D	40	PHE	3.2
1	6-D	40	PHE	3.2
1	7-D	40	PHE	3.2
1	8-D	40	PHE	3.2
1	1-C	286	ASP	3.1
1	2-C	286	ASP	3.1
1	3-C	286	ASP	3.1
1	4-C	286	ASP	3.1
1	5-C	286	ASP	3.1
1	6-C	286	ASP	3.1
1	7-C	286	ASP	3.1
1	8-C	286	ASP	3.1
1	1-A	207	GLY	3.1
1	2-A	207	GLY	3.1

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Mol	Chain	Res	Type	RSRZ
1	3-A	207	GLY	3.1
1	4-A	207	GLY	3.1
1	5-A	207	GLY	3.1
1	6-A	207	GLY	3.1
1	7-A	207	GLY	3.1
1	8-A	207	GLY	3.1
1	1-B	206	ILE	3.1
1	2-B	206	ILE	3.1
1	3-B	206	ILE	3.1
1	4-B	206	ILE	3.1
1	5-B	206	ILE	3.1
1	6-B	206	ILE	3.1
1	7-B	206	ILE	3.1
1	8-B	206	ILE	3.1
1	1-C	303	SER	3.0
1	2-C	303	SER	3.0
1	3-C	303	SER	3.0
1	4-C	303	SER	3.0
1	5-C	303	SER	3.0
1	6-C	303	SER	3.0
1	7-C	303	SER	3.0
1	8-C	303	SER	3.0
1	1-C	200	VAL	3.0
1	2-C	200	VAL	3.0
1	3-C	200	VAL	3.0
1	4-C	200	VAL	3.0
1	5-C	200	VAL	3.0
1	6-C	200	VAL	3.0
1	7-C	200	VAL	3.0
1	8-C	200	VAL	3.0
1	1-A	189	ASN	3.0
1	2-A	189	ASN	3.0
1	3-A	189	ASN	3.0
1	4-A	189	ASN	3.0
1	5-A	189	ASN	3.0
1	6-A	189	ASN	3.0
1	7-A	189	ASN	3.0
1	8-A	189	ASN	3.0
1	1-C	216	PRO	3.0
1	2-C	216	PRO	3.0
1	3-C	216	PRO	3.0
1	4-C	216	PRO	3.0

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Mol	Chain	Res	Type	RSRZ
1	5-C	216	PRO	3.0
1	6-C	216	PRO	3.0
1	7-C	216	PRO	3.0
1	8-C	216	PRO	3.0
1	1-B	74	ASP	3.0
1	2-B	74	ASP	3.0
1	3-B	74	ASP	3.0
1	4-B	74	ASP	3.0
1	5-B	74	ASP	3.0
1	6-B	74	ASP	3.0
1	7-B	74	ASP	3.0
1	8-B	74	ASP	3.0
1	1-C	327	LYS	3.0
1	2-C	327	LYS	3.0
1	3-C	327	LYS	3.0
1	4-C	327	LYS	3.0
1	5-C	327	LYS	3.0
1	6-C	327	LYS	3.0
1	7-C	327	LYS	3.0
1	8-C	327	LYS	3.0
1	1-D	206	ILE	3.0
1	2-D	206	ILE	3.0
1	3-D	206	ILE	3.0
1	4-D	206	ILE	3.0
1	5-D	206	ILE	3.0
1	6-D	206	ILE	3.0
1	7-D	206	ILE	3.0
1	8-D	206	ILE	3.0
1	1-C	189	ASN	2.9
1	2-C	189	ASN	2.9
1	3-C	189	ASN	2.9
1	4-C	189	ASN	2.9
1	5-C	189	ASN	2.9
1	6-C	189	ASN	2.9
1	7-C	189	ASN	2.9
1	8-C	189	ASN	2.9
1	1-A	283	GLU	2.9
1	2-A	283	GLU	2.9
1	3-A	283	GLU	2.9
1	4-A	283	GLU	2.9
1	5-A	283	GLU	2.9
1	6-A	283	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
1	7-A	283	GLU	2.9
1	8-A	283	GLU	2.9
1	1-C	167	VAL	2.9
1	2-C	167	VAL	2.9
1	3-C	167	VAL	2.9
1	4-C	167	VAL	2.9
1	5-C	167	VAL	2.9
1	6-C	167	VAL	2.9
1	7-C	167	VAL	2.9
1	8-C	167	VAL	2.9
1	1-C	306	PRO	2.8
1	2-C	306	PRO	2.8
1	3-C	306	PRO	2.8
1	4-C	306	PRO	2.8
1	5-C	306	PRO	2.8
1	6-C	306	PRO	2.8
1	7-C	306	PRO	2.8
1	8-C	306	PRO	2.8
1	1-B	208	PRO	2.8
1	2-B	208	PRO	2.8
1	3-B	208	PRO	2.8
1	4-B	208	PRO	2.8
1	5-B	208	PRO	2.8
1	6-B	208	PRO	2.8
1	7-B	208	PRO	2.8
1	8-B	208	PRO	2.8
1	1-C	130	GLY	2.8
1	2-C	130	GLY	2.8
1	3-C	130	GLY	2.8
1	4-C	130	GLY	2.8
1	5-C	130	GLY	2.8
1	6-C	130	GLY	2.8
1	7-C	130	GLY	2.8
1	8-C	130	GLY	2.8
1	1-A	185	ALA	2.7
1	2-A	185	ALA	2.7
1	3-A	185	ALA	2.7
1	4-A	185	ALA	2.7
1	5-A	185	ALA	2.7
1	6-A	185	ALA	2.7
1	7-A	185	ALA	2.7
1	8-A	185	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
1	1-C	165	PRO	2.7
1	2-C	165	PRO	2.7
1	3-C	165	PRO	2.7
1	4-C	165	PRO	2.7
1	5-C	165	PRO	2.7
1	6-C	165	PRO	2.7
1	7-C	165	PRO	2.7
1	8-C	165	PRO	2.7
1	1-C	304	ASN	2.7
1	2-C	304	ASN	2.7
1	3-C	304	ASN	2.7
1	4-C	304	ASN	2.7
1	5-C	304	ASN	2.7
1	6-C	304	ASN	2.7
1	7-C	304	ASN	2.7
1	8-C	304	ASN	2.7
1	1-A	172	GLU	2.6
1	2-A	172	GLU	2.6
1	3-A	172	GLU	2.6
1	4-A	172	GLU	2.6
1	5-A	172	GLU	2.6
1	6-A	172	GLU	2.6
1	7-A	172	GLU	2.6
1	8-A	172	GLU	2.6
1	1-A	129	GLY	2.6
1	1-D	130	GLY	2.6
1	2-A	129	GLY	2.6
1	2-D	130	GLY	2.6
1	3-A	129	GLY	2.6
1	3-D	130	GLY	2.6
1	4-A	129	GLY	2.6
1	4-D	130	GLY	2.6
1	5-A	129	GLY	2.6
1	5-D	130	GLY	2.6
1	6-A	129	GLY	2.6
1	6-D	130	GLY	2.6
1	7-A	129	GLY	2.6
1	7-D	130	GLY	2.6
1	8-A	129	GLY	2.6
1	8-D	130	GLY	2.6
1	1-C	210	LYS	2.6
1	2-C	210	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	3-C	210	LYS	2.6
1	4-C	210	LYS	2.6
1	5-C	210	LYS	2.6
1	6-C	210	LYS	2.6
1	7-C	210	LYS	2.6
1	8-C	210	LYS	2.6
1	1-A	174	PRO	2.6
1	2-A	174	PRO	2.6
1	3-A	174	PRO	2.6
1	4-A	174	PRO	2.6
1	5-A	174	PRO	2.6
1	6-A	174	PRO	2.6
1	7-A	174	PRO	2.6
1	8-A	174	PRO	2.6
1	1-C	329	ILE	2.5
1	2-C	329	ILE	2.5
1	3-C	329	ILE	2.5
1	4-C	329	ILE	2.5
1	5-C	329	ILE	2.5
1	6-C	329	ILE	2.5
1	7-C	329	ILE	2.5
1	8-C	329	ILE	2.5
1	1-A	74	ASP	2.5
1	2-A	74	ASP	2.5
1	3-A	74	ASP	2.5
1	4-A	74	ASP	2.5
1	5-A	74	ASP	2.5
1	6-A	74	ASP	2.5
1	7-A	74	ASP	2.5
1	8-A	74	ASP	2.5
1	1-A	303	SER	2.5
1	2-A	303	SER	2.5
1	3-A	303	SER	2.5
1	4-A	303	SER	2.5
1	5-A	303	SER	2.5
1	6-A	303	SER	2.5
1	7-A	303	SER	2.5
1	8-A	303	SER	2.5
1	1-D	305	GLY	2.4
1	2-D	305	GLY	2.4
1	3-D	305	GLY	2.4
1	4-D	305	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	5-D	305	GLY	2.4
1	6-D	305	GLY	2.4
1	7-D	305	GLY	2.4
1	8-D	305	GLY	2.4
1	1-A	250	SER	2.4
1	2-A	250	SER	2.4
1	3-A	250	SER	2.4
1	4-A	250	SER	2.4
1	5-A	250	SER	2.4
1	6-A	250	SER	2.4
1	7-A	250	SER	2.4
1	8-A	250	SER	2.4
1	1-A	41	SER	2.4
1	1-B	77	ASP	2.4
1	2-A	41	SER	2.4
1	2-B	77	ASP	2.4
1	3-A	41	SER	2.4
1	3-B	77	ASP	2.4
1	4-A	41	SER	2.4
1	4-B	77	ASP	2.4
1	5-A	41	SER	2.4
1	5-B	77	ASP	2.4
1	6-A	41	SER	2.4
1	6-B	77	ASP	2.4
1	7-A	41	SER	2.4
1	7-B	77	ASP	2.4
1	8-A	41	SER	2.4
1	8-B	77	ASP	2.4
1	1-A	211	GLU	2.4
1	2-A	211	GLU	2.4
1	3-A	211	GLU	2.4
1	4-A	211	GLU	2.4
1	5-A	211	GLU	2.4
1	6-A	211	GLU	2.4
1	7-A	211	GLU	2.4
1	8-A	211	GLU	2.4
1	1-A	165	PRO	2.3
1	2-A	165	PRO	2.3
1	3-A	165	PRO	2.3
1	4-A	165	PRO	2.3
1	5-A	165	PRO	2.3
1	6-A	165	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
1	7-A	165	PRO	2.3
1	8-A	165	PRO	2.3
1	1-C	180	ILE	2.3
1	2-C	180	ILE	2.3
1	3-C	180	ILE	2.3
1	4-C	180	ILE	2.3
1	5-C	180	ILE	2.3
1	6-C	180	ILE	2.3
1	7-C	180	ILE	2.3
1	8-C	180	ILE	2.3
1	1-C	179	VAL	2.3
1	2-C	179	VAL	2.3
1	3-C	179	VAL	2.3
1	4-C	179	VAL	2.3
1	5-C	179	VAL	2.3
1	6-C	179	VAL	2.3
1	7-C	179	VAL	2.3
1	8-C	179	VAL	2.3
1	1-C	131	ASP	2.3
1	2-C	131	ASP	2.3
1	3-C	131	ASP	2.3
1	4-C	131	ASP	2.3
1	5-C	131	ASP	2.3
1	6-C	131	ASP	2.3
1	7-C	131	ASP	2.3
1	8-C	131	ASP	2.3
1	1-C	330	GLU	2.3
1	2-C	330	GLU	2.3
1	3-C	330	GLU	2.3
1	4-C	330	GLU	2.3
1	5-C	330	GLU	2.3
1	6-C	330	GLU	2.3
1	7-C	330	GLU	2.3
1	8-C	330	GLU	2.3
1	1-A	301	SER	2.3
1	2-A	301	SER	2.3
1	3-A	301	SER	2.3
1	4-A	301	SER	2.3
1	5-A	301	SER	2.3
1	6-A	301	SER	2.3
1	7-A	301	SER	2.3
1	8-A	301	SER	2.3

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Mol	Chain	Res	Type	RSRZ
1	1-D	192	GLU	2.3
1	2-D	192	GLU	2.3
1	3-D	192	GLU	2.3
1	4-D	192	GLU	2.3
1	5-D	192	GLU	2.3
1	6-D	192	GLU	2.3
1	7-D	192	GLU	2.3
1	8-D	192	GLU	2.3
1	1-B	207	GLY	2.3
1	2-B	207	GLY	2.3
1	3-B	207	GLY	2.3
1	4-B	207	GLY	2.3
1	5-B	207	GLY	2.3
1	6-B	207	GLY	2.3
1	7-B	207	GLY	2.3
1	8-B	207	GLY	2.3
1	1-D	327	LYS	2.3
1	2-D	327	LYS	2.3
1	3-D	327	LYS	2.3
1	4-D	327	LYS	2.3
1	5-D	327	LYS	2.3
1	6-D	327	LYS	2.3
1	7-D	327	LYS	2.3
1	8-D	327	LYS	2.3
1	1-C	285	PRO	2.2
1	2-C	285	PRO	2.2
1	3-C	285	PRO	2.2
1	4-C	285	PRO	2.2
1	5-C	285	PRO	2.2
1	6-C	285	PRO	2.2
1	7-C	285	PRO	2.2
1	8-C	285	PRO	2.2
1	1-C	299	SER	2.2
1	2-C	299	SER	2.2
1	3-C	299	SER	2.2
1	4-C	299	SER	2.2
1	5-C	299	SER	2.2
1	6-C	299	SER	2.2
1	7-C	299	SER	2.2
1	8-C	299	SER	2.2
1	1-A	328	VAL	2.1
1	2-A	328	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	3-A	328	VAL	2.1
1	4-A	328	VAL	2.1
1	5-A	328	VAL	2.1
1	6-A	328	VAL	2.1
1	7-A	328	VAL	2.1
1	8-A	328	VAL	2.1
1	1-C	194	SER	2.1
1	2-C	194	SER	2.1
1	3-C	194	SER	2.1
1	4-C	194	SER	2.1
1	5-C	194	SER	2.1
1	6-C	194	SER	2.1
1	7-C	194	SER	2.1
1	8-C	194	SER	2.1
1	1-C	75	TYR	2.1
1	2-C	75	TYR	2.1
1	3-C	75	TYR	2.1
1	4-C	75	TYR	2.1
1	5-C	75	TYR	2.1
1	6-C	75	TYR	2.1
1	7-C	75	TYR	2.1
1	8-C	75	TYR	2.1
1	1-B	73	SER	2.1
1	2-B	73	SER	2.1
1	3-B	73	SER	2.1
1	4-B	73	SER	2.1
1	5-B	73	SER	2.1
1	6-B	73	SER	2.1
1	7-B	73	SER	2.1
1	8-B	73	SER	2.1
1	1-A	305	GLY	2.1
1	2-A	305	GLY	2.1
1	3-A	305	GLY	2.1
1	4-A	305	GLY	2.1
1	5-A	305	GLY	2.1
1	6-A	305	GLY	2.1
1	7-A	305	GLY	2.1
1	8-A	305	GLY	2.1
1	1-D	73	SER	2.1
1	2-D	73	SER	2.1
1	3-D	73	SER	2.1
1	4-D	73	SER	2.1

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Mol	Chain	Res	Type	RSRZ
1	5-D	73	SER	2.1
1	6-D	73	SER	2.1
1	7-D	73	SER	2.1
1	8-D	73	SER	2.1
1	1-A	180	ILE	2.1
1	2-A	180	ILE	2.1
1	3-A	180	ILE	2.1
1	4-A	180	ILE	2.1
1	5-A	180	ILE	2.1
1	6-A	180	ILE	2.1
1	7-A	180	ILE	2.1
1	8-A	180	ILE	2.1
1	1-B	283	GLU	2.1
1	2-B	283	GLU	2.1
1	3-B	283	GLU	2.1
1	4-B	283	GLU	2.1
1	5-B	283	GLU	2.1
1	6-B	283	GLU	2.1
1	7-B	283	GLU	2.1
1	8-B	283	GLU	2.1
1	1-A	214	GLU	2.1
1	2-A	214	GLU	2.1
1	3-A	214	GLU	2.1
1	4-A	214	GLU	2.1
1	5-A	214	GLU	2.1
1	6-A	214	GLU	2.1
1	7-A	214	GLU	2.1
1	8-A	214	GLU	2.1
1	1-C	232	CYS	2.1
1	2-C	232	CYS	2.1
1	3-C	232	CYS	2.1
1	4-C	232	CYS	2.1
1	5-C	232	CYS	2.1
1	6-C	232	CYS	2.1
1	7-C	232	CYS	2.1
1	8-C	232	CYS	2.1
1	1-C	182	ASP	2.1
1	2-C	182	ASP	2.1
1	3-C	182	ASP	2.1
1	4-C	182	ASP	2.1
1	5-C	182	ASP	2.1
1	6-C	182	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
1	7-C	182	ASP	2.1
1	8-C	182	ASP	2.1
1	1-D	207	GLY	2.0
1	2-D	207	GLY	2.0
1	3-D	207	GLY	2.0
1	4-D	207	GLY	2.0
1	5-D	207	GLY	2.0
1	6-D	207	GLY	2.0
1	7-D	207	GLY	2.0
1	8-D	207	GLY	2.0
1	1-C	172	GLU	2.0
1	2-C	172	GLU	2.0
1	3-C	172	GLU	2.0
1	4-C	172	GLU	2.0
1	5-C	172	GLU	2.0
1	6-C	172	GLU	2.0
1	7-C	172	GLU	2.0
1	8-C	172	GLU	2.0
1	1-C	56	PRO	2.0
1	2-C	56	PRO	2.0
1	3-C	56	PRO	2.0
1	4-C	56	PRO	2.0
1	5-C	56	PRO	2.0
1	6-C	56	PRO	2.0
1	7-C	56	PRO	2.0
1	8-C	56	PRO	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

There are no ligands in this entry.

6.5 Other polymers (i)

There are no such residues in this entry.