



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 06:38 PM UTC

PDB ID : 1TZO / pdb_00001tzo
Title : Crystal Structure of the Anthrax Toxin Protective Antigen Heptameric Pre-pore
Authors : Lacy, D.B.; Wigelsworth, D.J.; Melnyk, R.A.; Collier, R.J.
Deposited on : 2004-07-10
Resolution : 3.60 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:

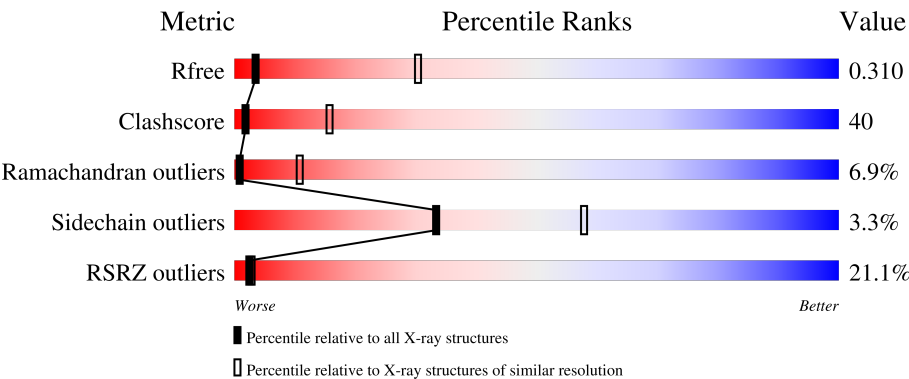
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

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 3.60 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}	180053	1747 (3.70-3.50)
Clashscore	190562	1827 (3.70-3.50)
Ramachandran outliers	187476	1773 (3.70-3.50)
Sidechain outliers	187428	1772 (3.70-3.50)
RSRZ outliers	180081	1745 (3.70-3.50)

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 $\leq 5\%$. 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	A	562	12% 38% 54% 5% ..
1	B	562	36% 38% 54% 6% ..
1	C	562	18% 39% 54% 6% ..
1	D	562	40% 39% 52% 6% ..
1	E	562	13% 38% 54% 5% ..

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Mol	Chain	Length	Quality of chain
1	F	562	12%39%54%5% ..
1	G	562	17%40%53%5% ..
1	H	562	20%39%54%5% ..
1	I	562	22%38%54%5% ..
1	J	562	20%38%54%5% ..
1	K	562	18%38%54%6% ..
1	L	562	22%38%55%5% ..
1	M	562	17%39%54%5% ..
1	O	562	23%39%53%6% ..

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 61138 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 Protective antigen.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	B	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	C	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	D	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	E	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	F	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	G	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	H	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	I	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	J	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	K	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	L	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	M	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				
1	O	553	Total	C	N	O	S		0	0	0
			4365	2730	753	876	6				

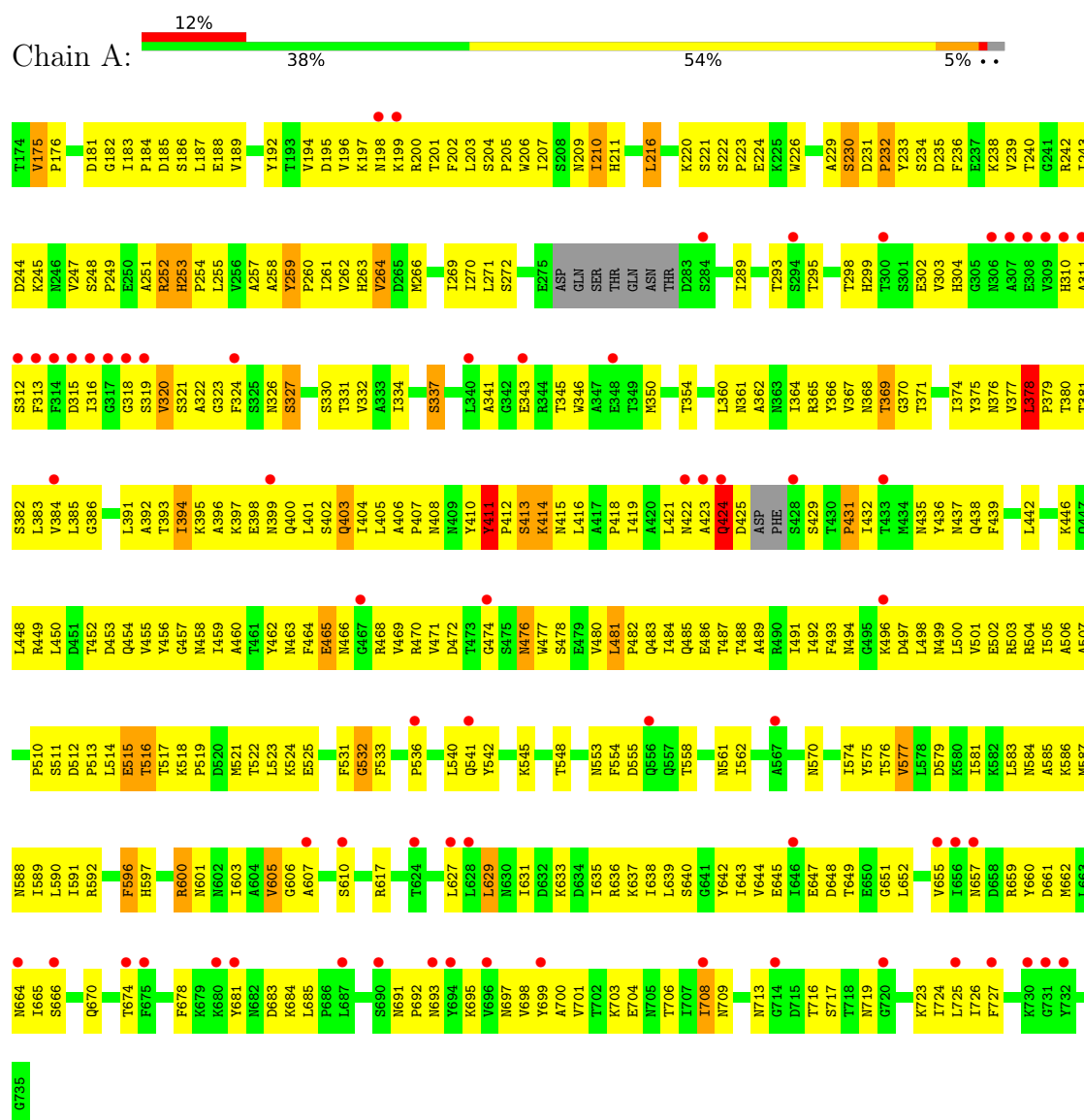
- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total 2	Ca 2	0	0
2	B	2	Total 2	Ca 2	0	0
2	C	2	Total 2	Ca 2	0	0
2	D	2	Total 2	Ca 2	0	0
2	E	2	Total 2	Ca 2	0	0
2	F	2	Total 2	Ca 2	0	0
2	G	2	Total 2	Ca 2	0	0
2	H	2	Total 2	Ca 2	0	0
2	I	2	Total 2	Ca 2	0	0
2	J	2	Total 2	Ca 2	0	0
2	K	2	Total 2	Ca 2	0	0
2	L	2	Total 2	Ca 2	0	0
2	M	2	Total 2	Ca 2	0	0
2	O	2	Total 2	Ca 2	0	0

3 Residue-property plots

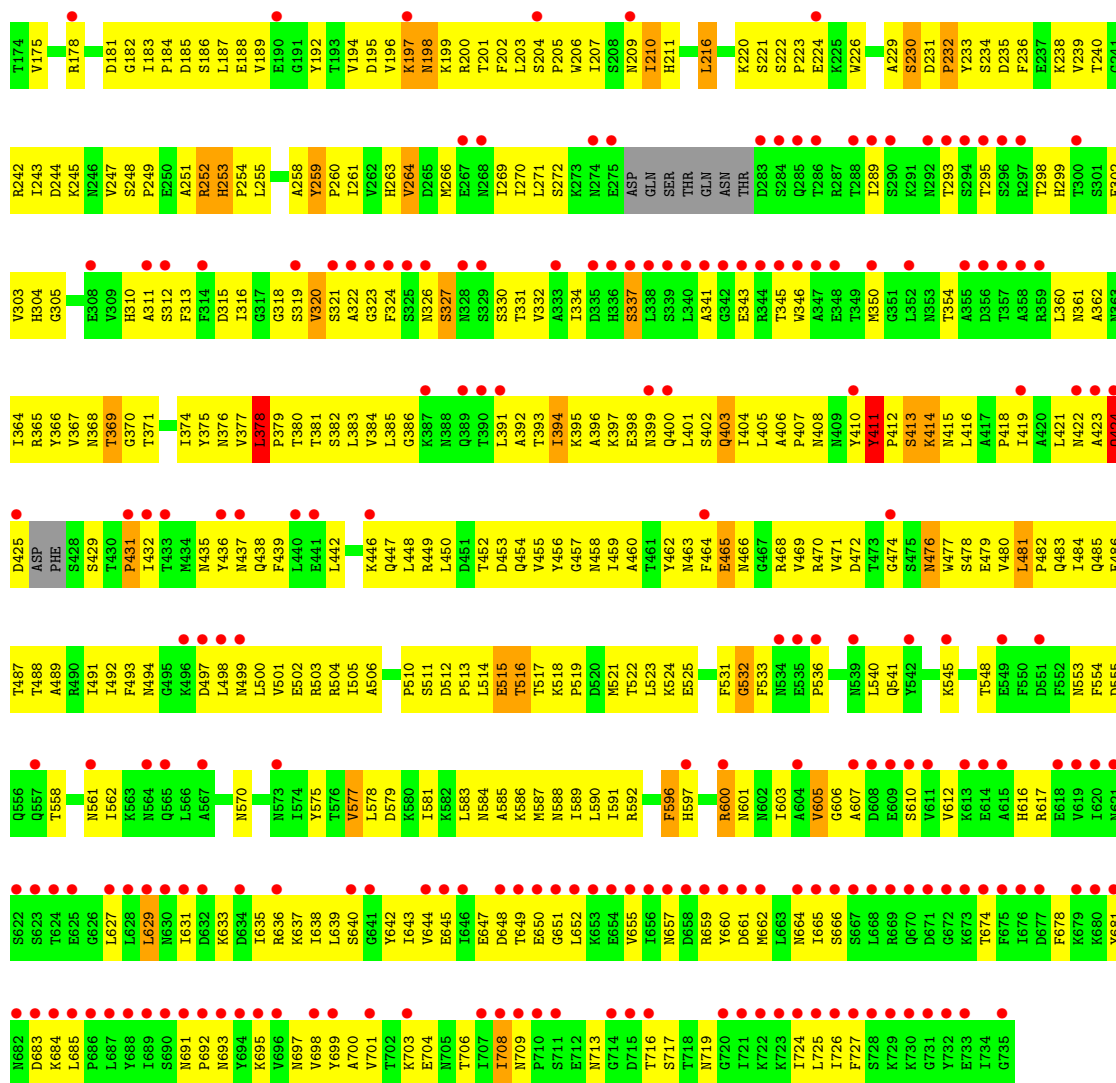
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Protective antigen

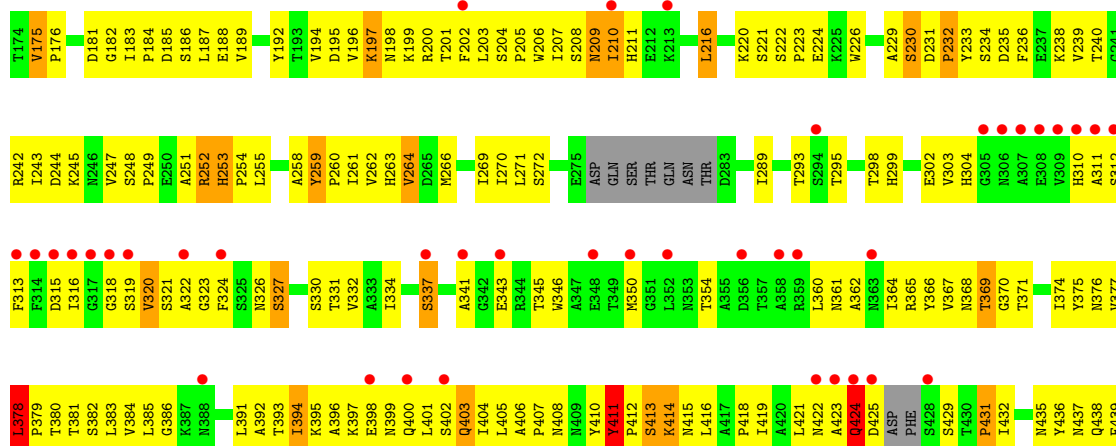


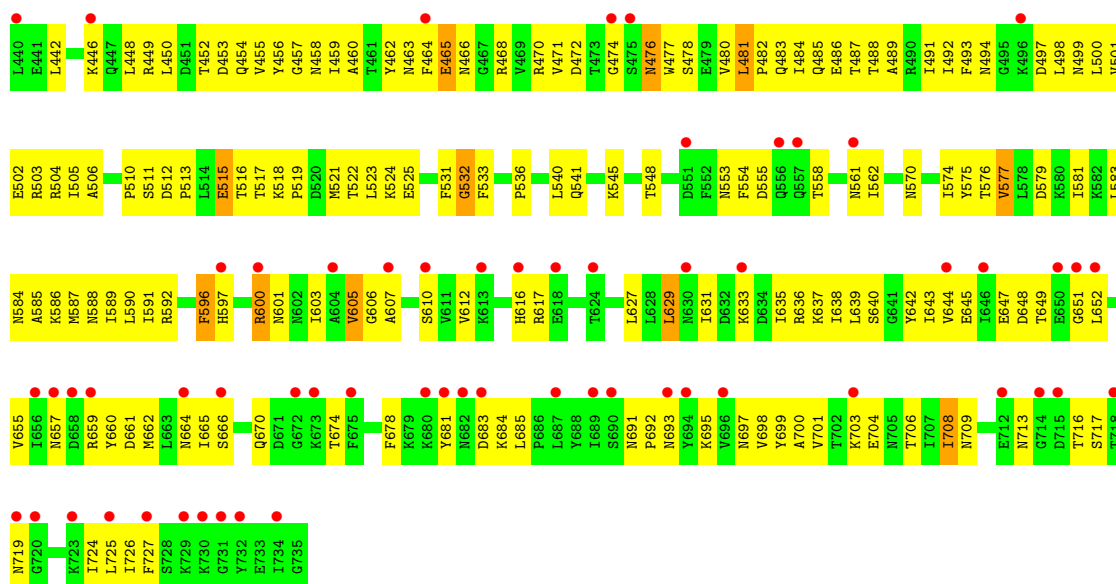
• Molecule 1: Protective antigen



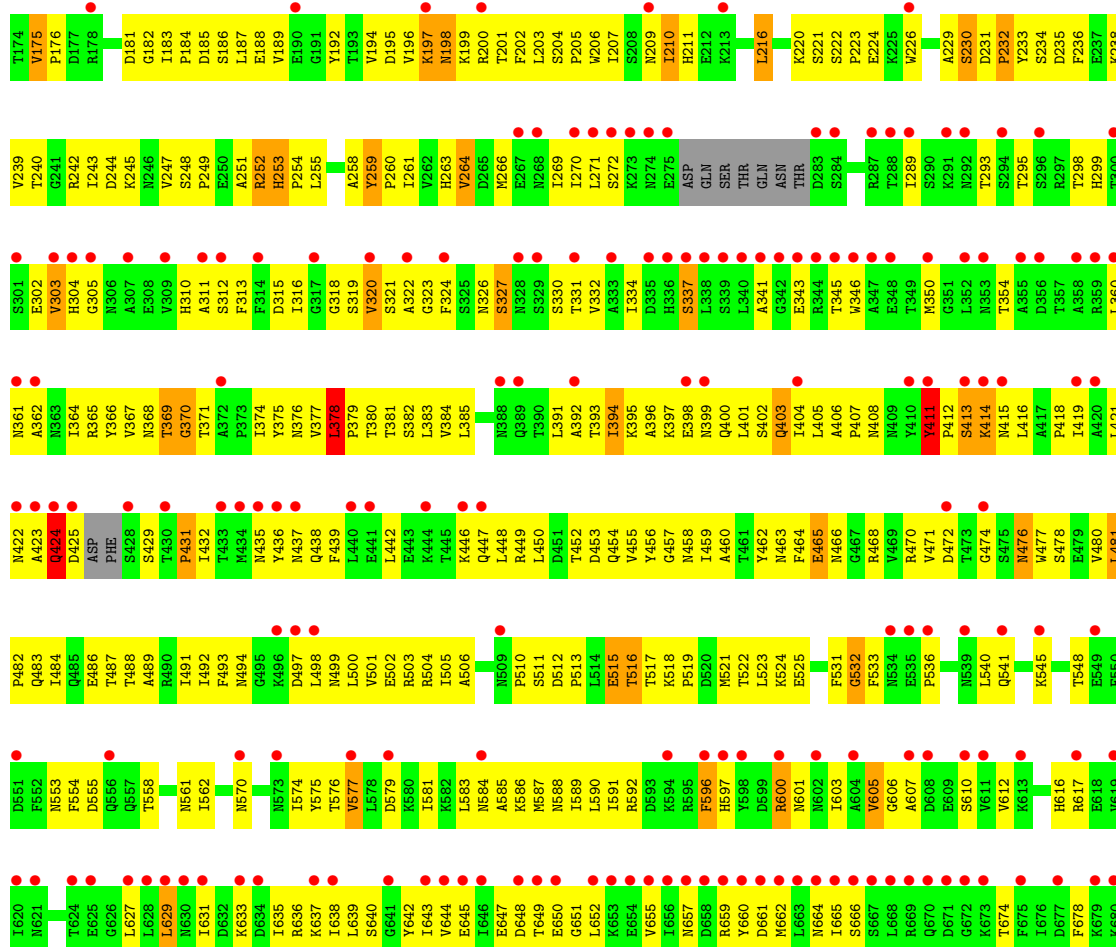


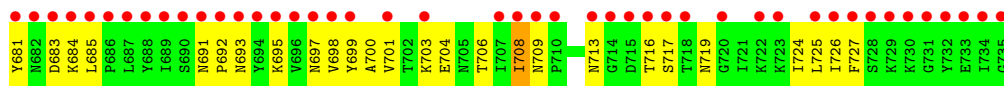
• Molecule 1: Protective antigen



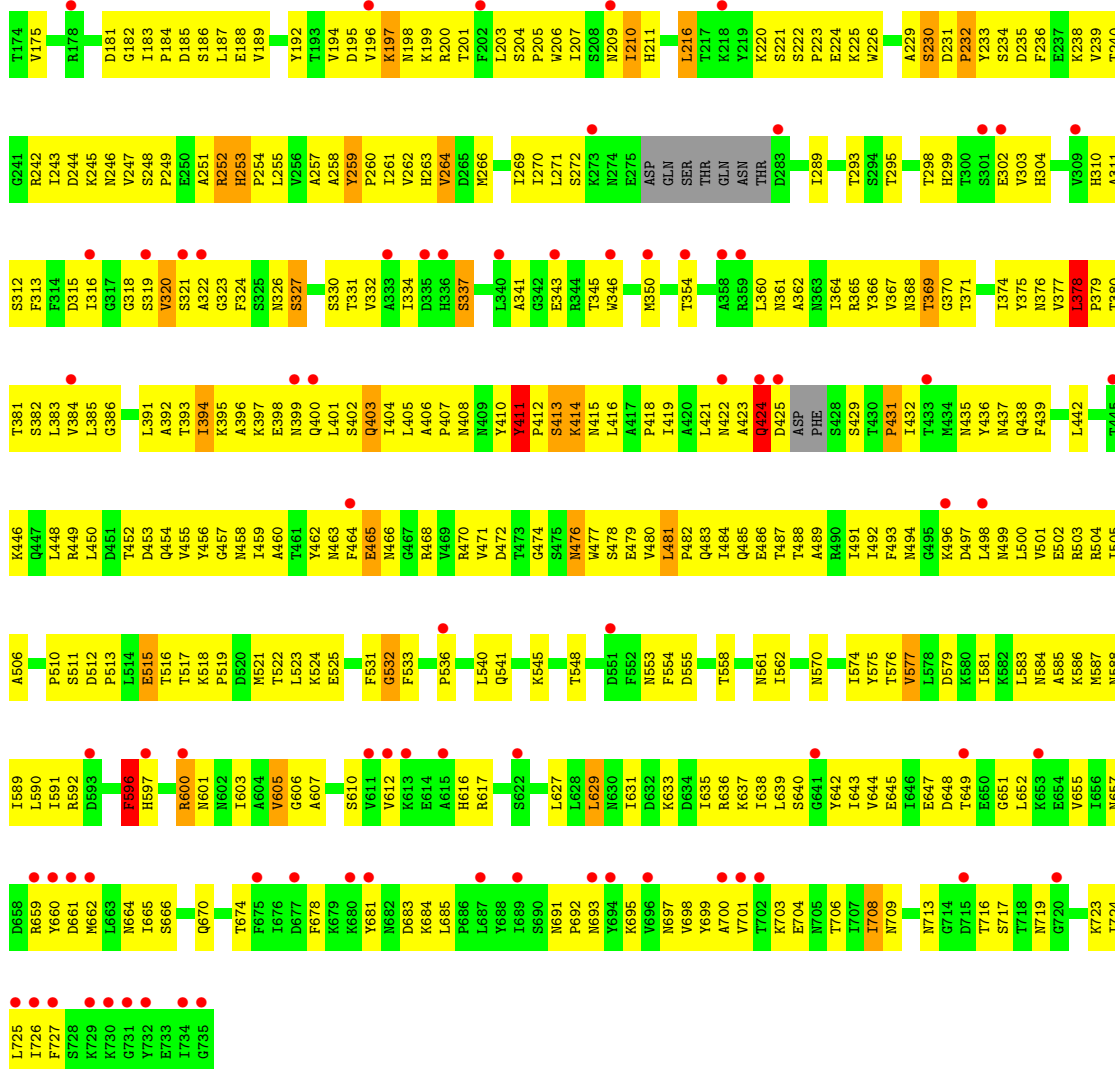


• Molecule 1: Protective antigen

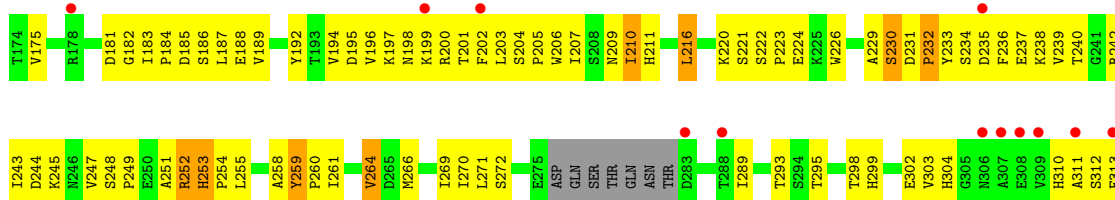


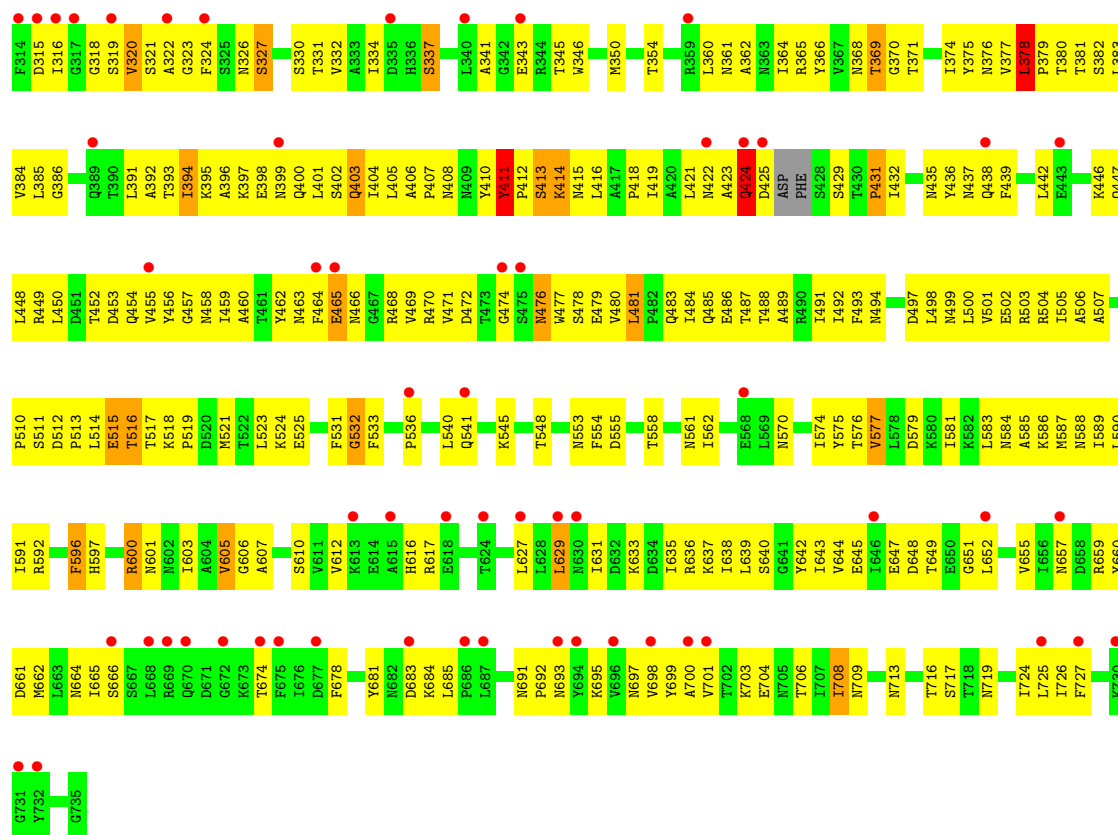


● Molecule 1: Protective antigen

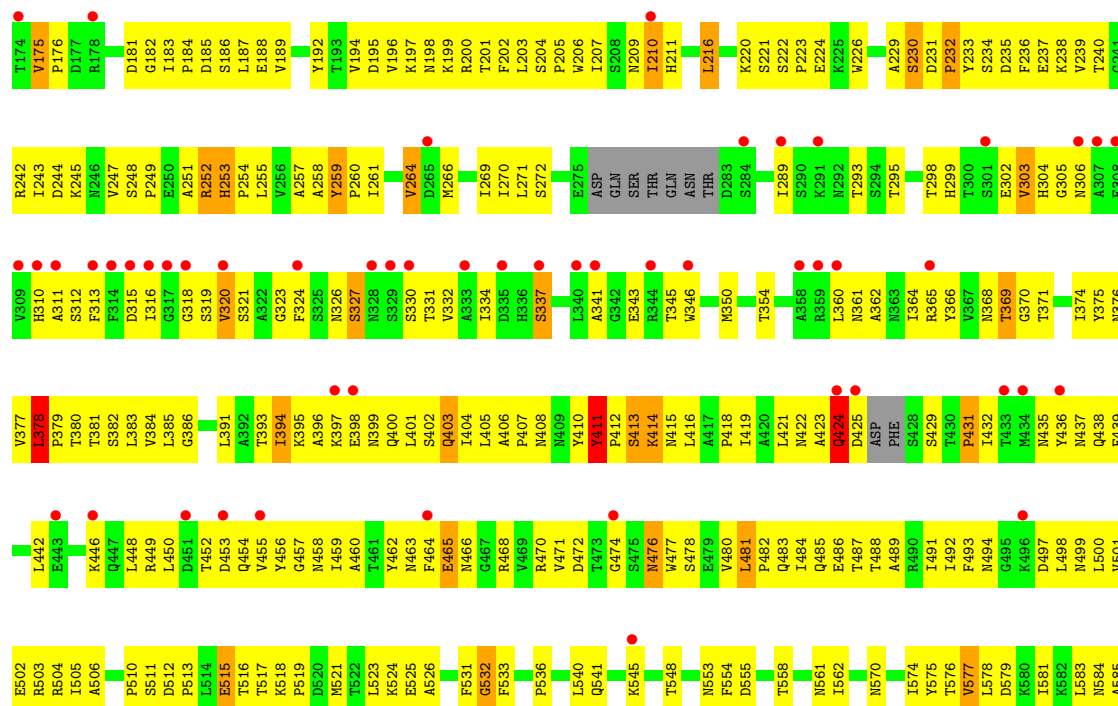
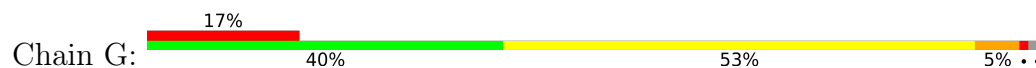


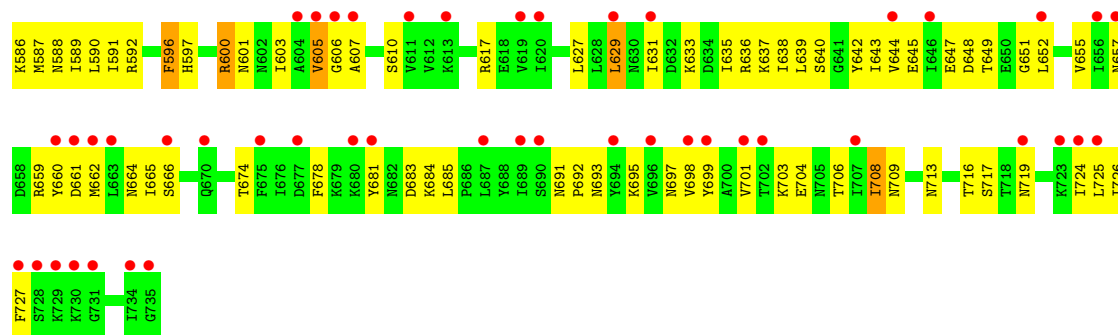
● Molecule 1: Protective antigen



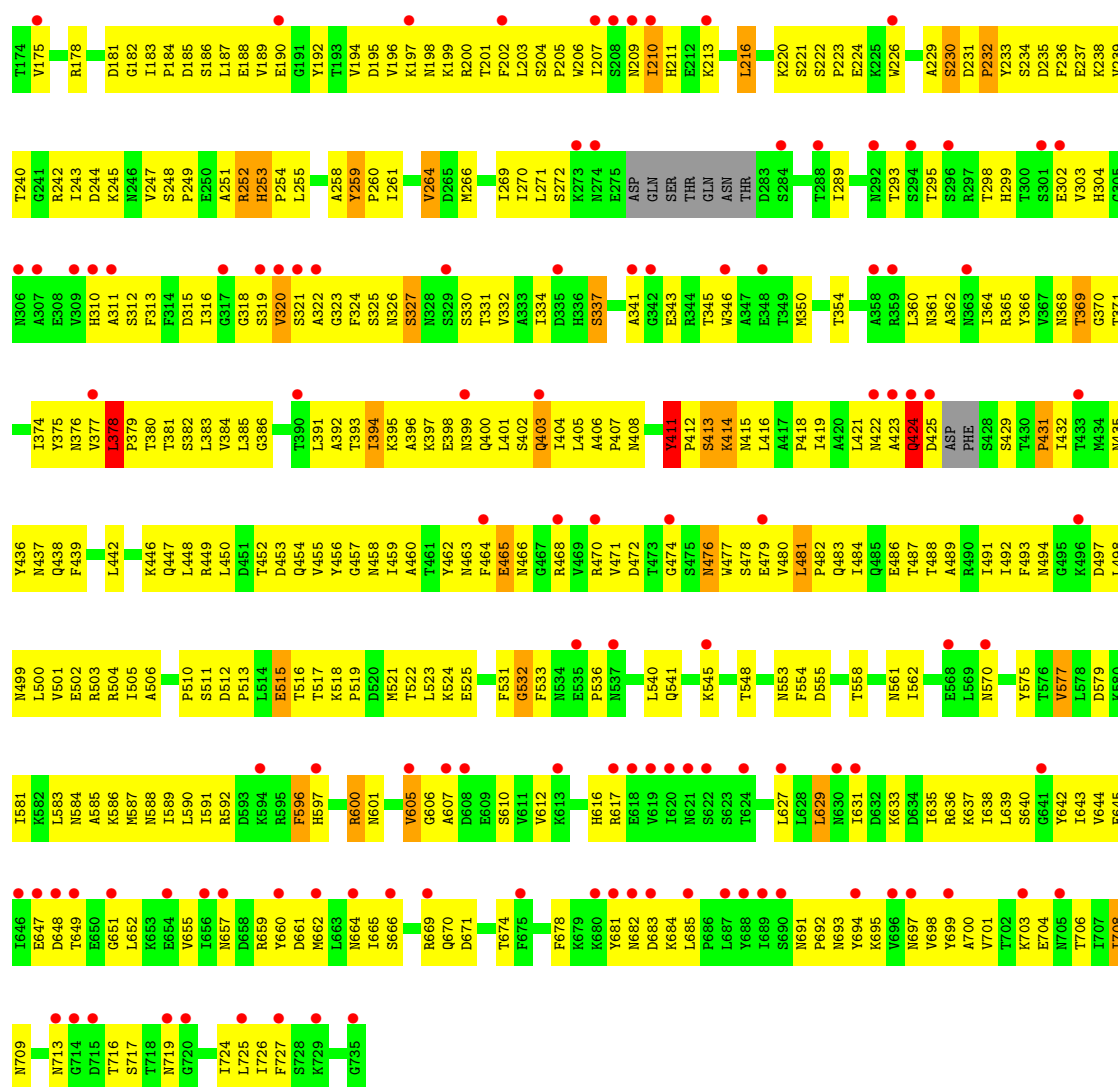


● Molecule 1: Protective antigen



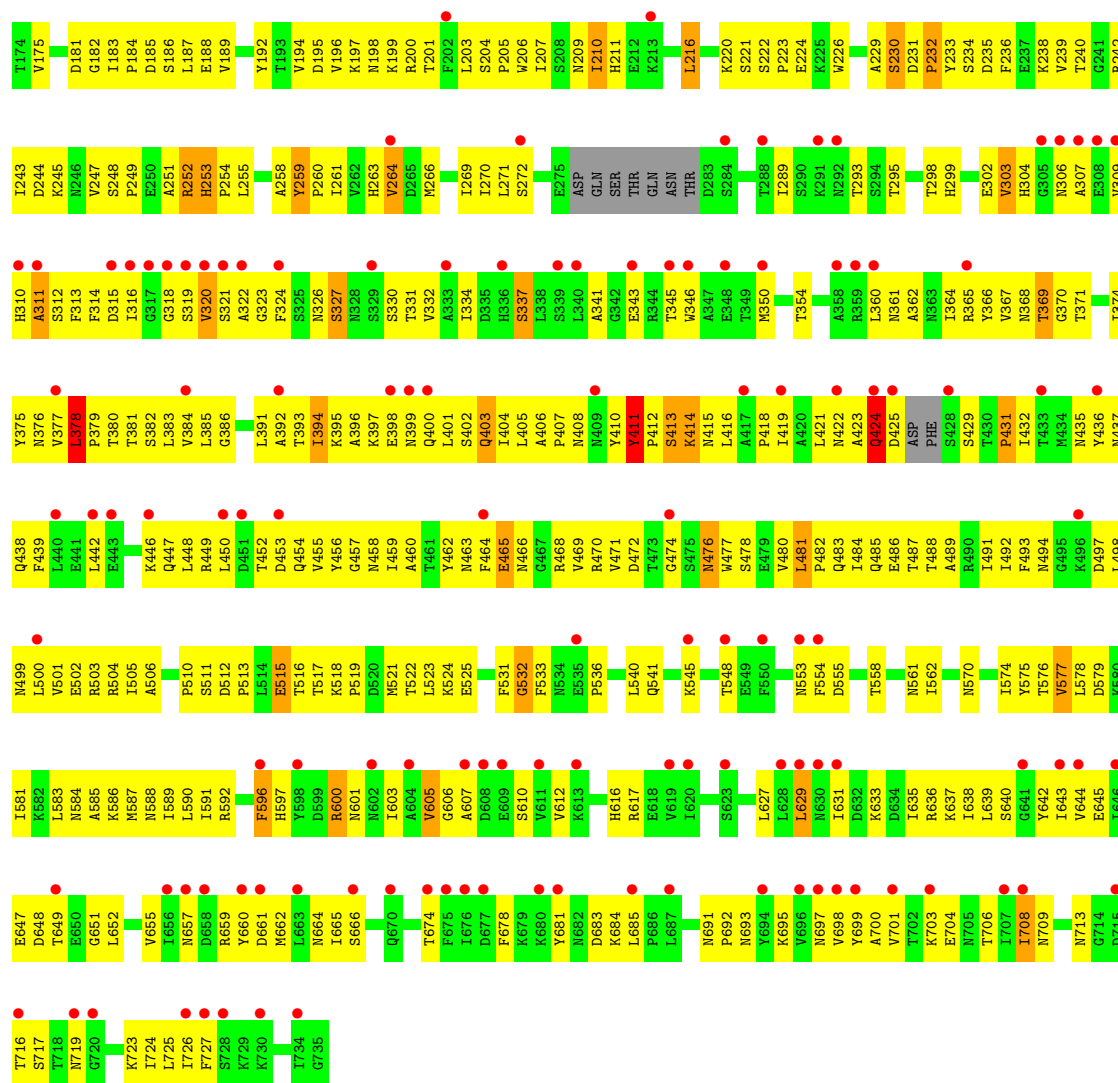


• Molecule 1: Protective antigen

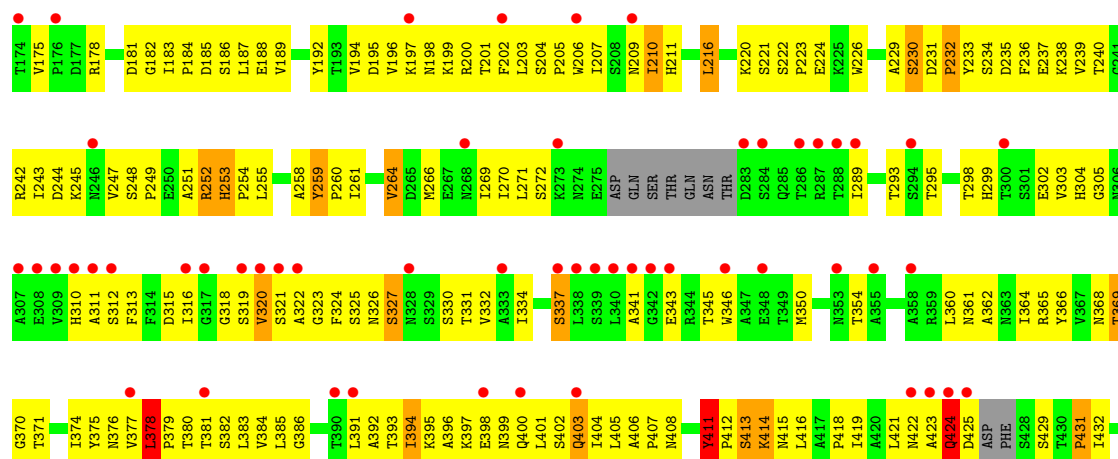


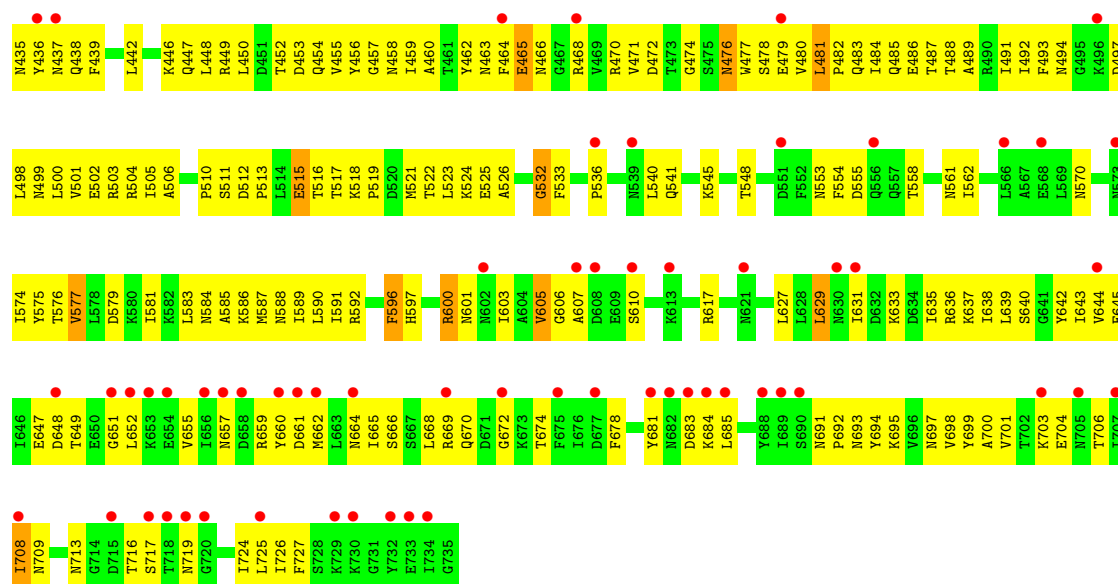
• Molecule 1: Protective antigen



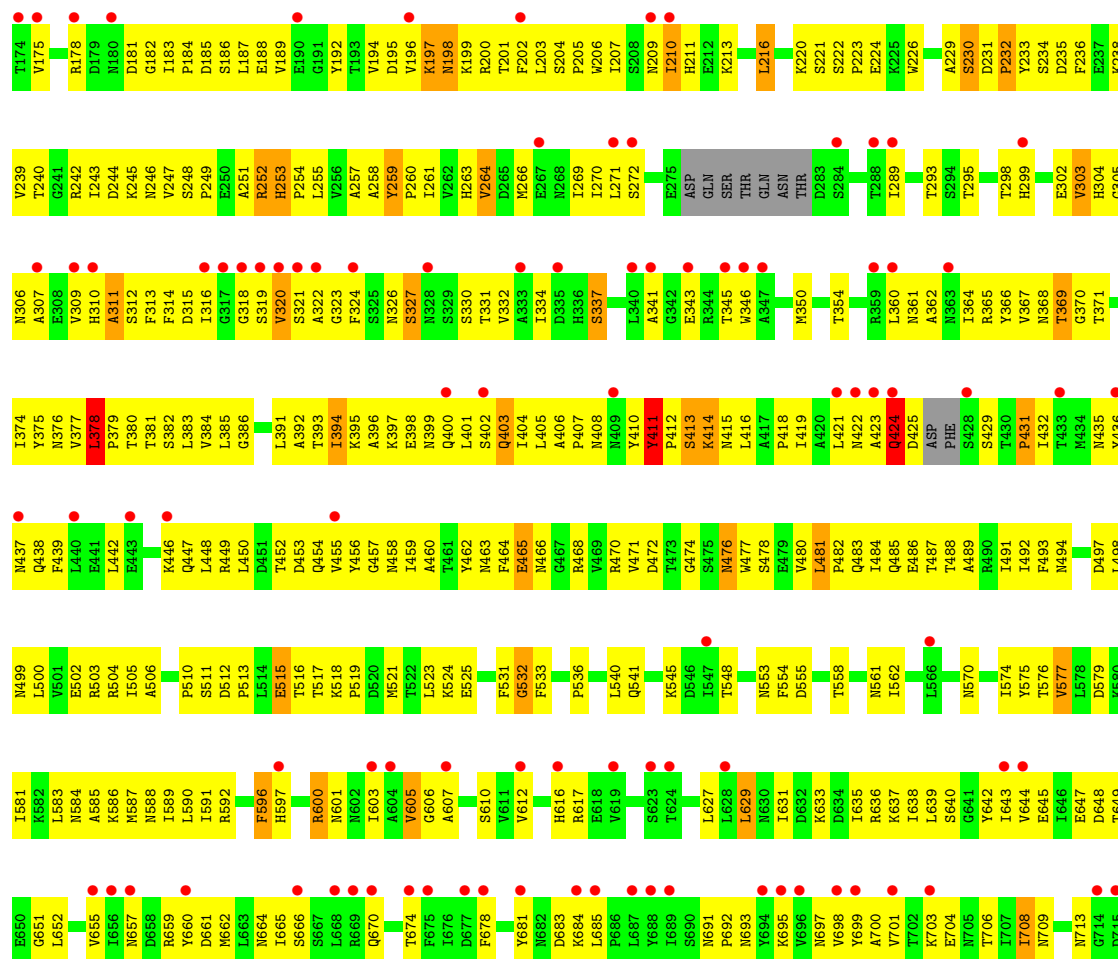


• Molecule 1: Protective antigen



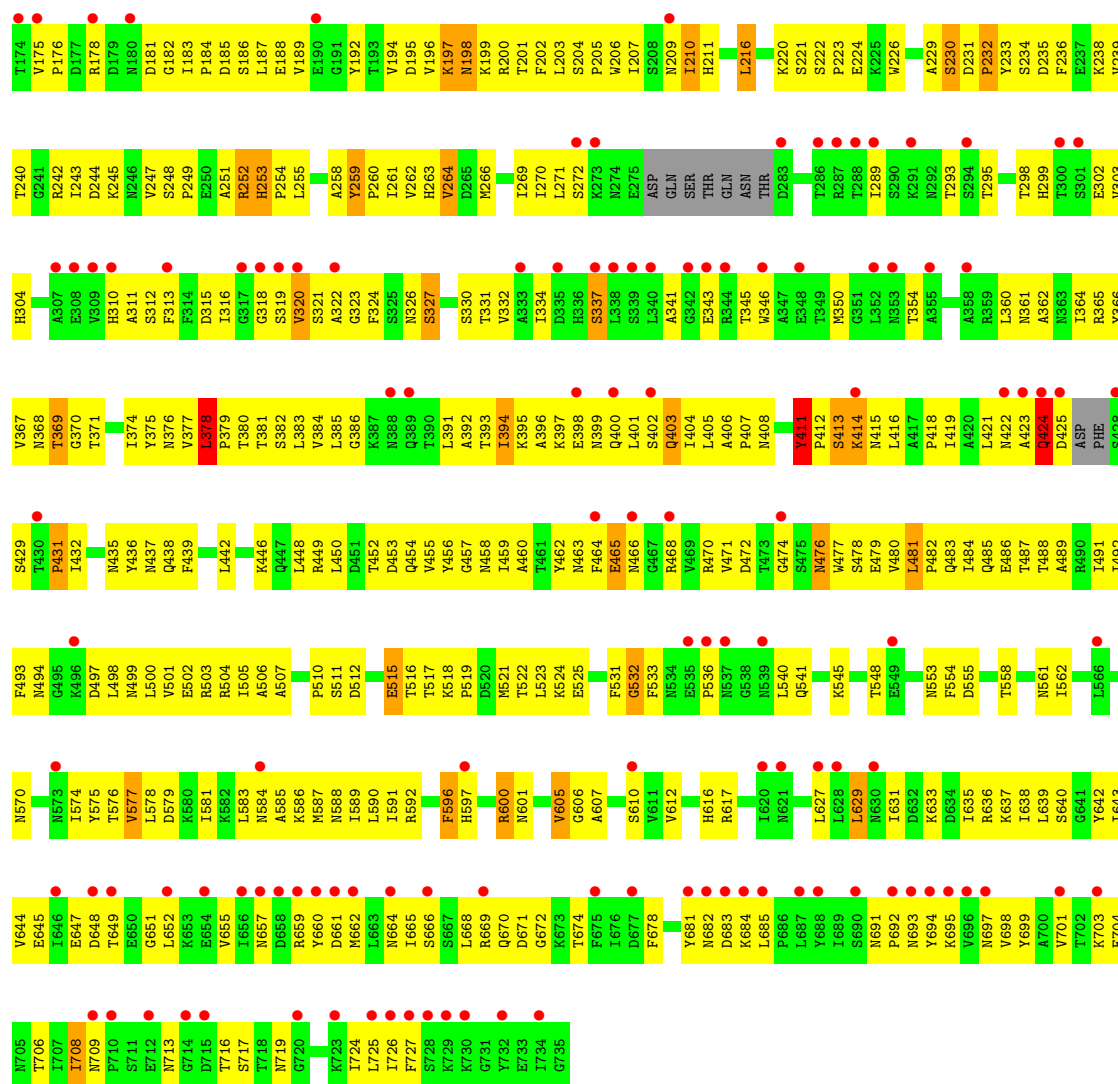


• Molecule 1: Protective antigen

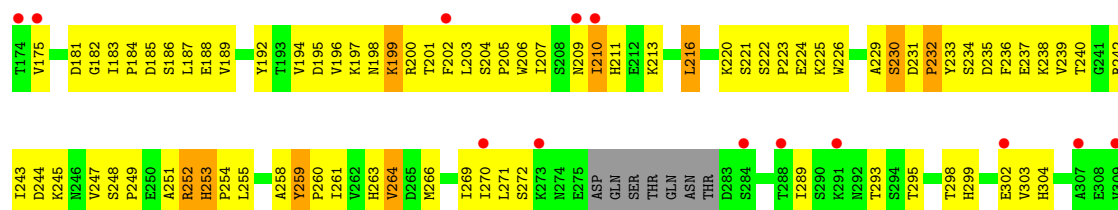




● Molecule 1: Protective antigen

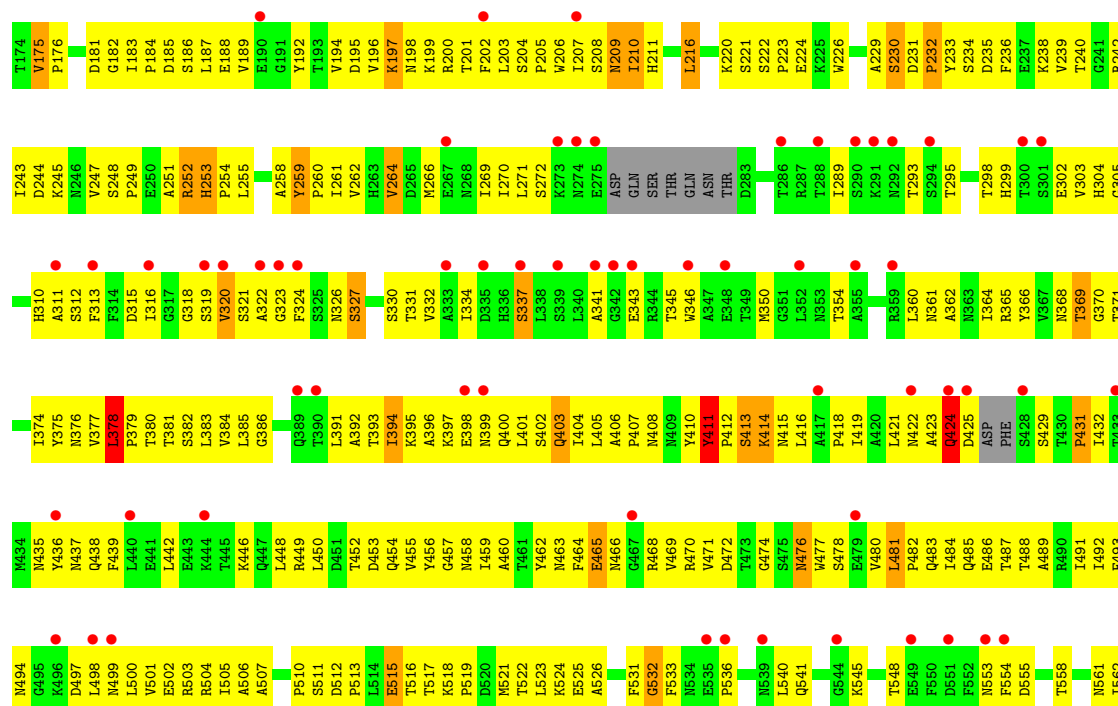


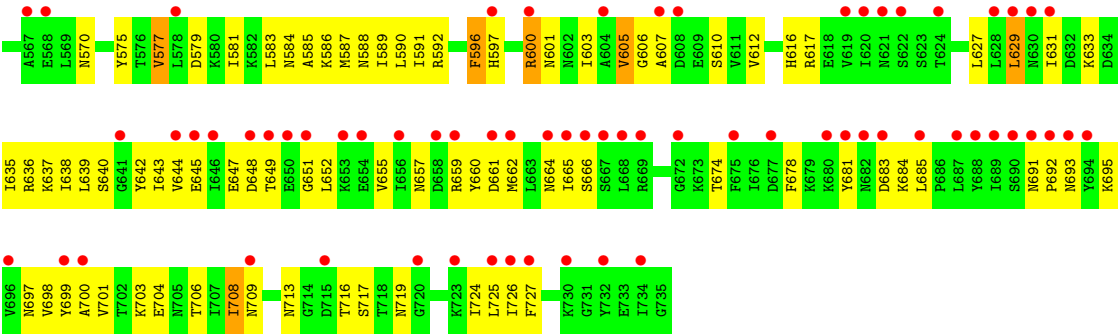
● Molecule 1: Protective antigen





● Molecule 1: Protective antigen





4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	149.61Å 167.03Å 168.20Å 77.56° 75.74° 76.01°	Depositor
Resolution (Å)	30.00 – 3.60 30.00 – 3.60	Depositor EDS
% Data completeness (in resolution range)	93.2 (30.00-3.60) 93.0 (30.00-3.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.25 (at 3.56Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.314 , 0.317 0.307 , 0.310	Depositor DCC
R_{free} test set	8182 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	74.3	Xtriage
Anisotropy	0.164	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 86.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.019 for -h,-l,-k	Xtriage
F_o, F_c correlation	0.83	EDS
Total number of atoms	61138	wwPDB-VP
Average B, all atoms (Å ²)	93.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.06% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ 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](#)

Bond lengths and bond angles in the following residue types are not validated in this section:
CA

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	A	0.37	0/4439	0.92	17/6018 (0.3%)
1	B	0.36	0/4439	0.92	16/6018 (0.3%)
1	C	0.36	0/4439	0.92	17/6018 (0.3%)
1	D	0.36	0/4439	0.92	16/6018 (0.3%)
1	E	0.36	0/4439	0.92	18/6018 (0.3%)
1	F	0.36	0/4439	0.92	16/6018 (0.3%)
1	G	0.36	0/4439	0.92	16/6018 (0.3%)
1	H	0.36	0/4439	0.91	16/6018 (0.3%)
1	I	0.36	0/4439	0.92	16/6018 (0.3%)
1	J	0.36	0/4439	0.92	16/6018 (0.3%)
1	K	0.36	0/4439	0.92	16/6018 (0.3%)
1	L	0.36	0/4439	0.92	17/6018 (0.3%)
1	M	0.36	0/4439	0.92	17/6018 (0.3%)
1	O	0.36	0/4439	0.92	17/6018 (0.3%)
All	All	0.36	0/62146	0.92	231/84252 (0.3%)

There are no bond length outliers.

All (231) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	424	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	L	424	GLN	OE1-CD-NE2	-9.82	112.78	122.60
1	D	424	GLN	OE1-CD-NE2	-9.80	112.80	122.60
1	E	424	GLN	OE1-CD-NE2	-9.80	112.80	122.60
1	I	424	GLN	OE1-CD-NE2	-9.80	112.80	122.60
1	B	424	GLN	OE1-CD-NE2	-9.79	112.81	122.60
1	G	424	GLN	OE1-CD-NE2	-9.79	112.81	122.60
1	K	424	GLN	OE1-CD-NE2	-9.78	112.82	122.60
1	A	424	GLN	OE1-CD-NE2	-9.77	112.83	122.60
1	C	424	GLN	OE1-CD-NE2	-9.77	112.83	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	424	GLN	OE1-CD-NE2	-9.76	112.84	122.60
1	H	424	GLN	OE1-CD-NE2	-9.76	112.84	122.60
1	M	424	GLN	OE1-CD-NE2	-9.76	112.84	122.60
1	J	424	GLN	OE1-CD-NE2	-9.75	112.85	122.60
1	B	253	HIS	CA-C-N	7.27	128.93	119.84
1	B	253	HIS	C-N-CA	7.27	128.93	119.84
1	M	253	HIS	CA-C-N	7.26	128.91	119.84
1	M	253	HIS	C-N-CA	7.26	128.91	119.84
1	G	253	HIS	CA-C-N	7.25	128.91	119.84
1	G	253	HIS	C-N-CA	7.25	128.91	119.84
1	I	253	HIS	CA-C-N	7.25	128.90	119.84
1	I	253	HIS	C-N-CA	7.25	128.90	119.84
1	E	253	HIS	CA-C-N	7.25	128.90	119.84
1	E	253	HIS	C-N-CA	7.25	128.90	119.84
1	J	253	HIS	CA-C-N	7.24	128.89	119.84
1	J	253	HIS	C-N-CA	7.24	128.89	119.84
1	D	253	HIS	CA-C-N	7.23	128.88	119.84
1	D	253	HIS	C-N-CA	7.23	128.88	119.84
1	L	253	HIS	CA-C-N	7.23	128.88	119.84
1	L	253	HIS	C-N-CA	7.23	128.88	119.84
1	O	253	HIS	CA-C-N	7.23	128.87	119.84
1	O	253	HIS	C-N-CA	7.23	128.87	119.84
1	H	253	HIS	CA-C-N	7.22	128.86	119.84
1	H	253	HIS	C-N-CA	7.22	128.86	119.84
1	A	253	HIS	CA-C-N	7.21	128.85	119.84
1	A	253	HIS	C-N-CA	7.21	128.85	119.84
1	F	253	HIS	CA-C-N	7.21	128.85	119.84
1	F	253	HIS	C-N-CA	7.21	128.85	119.84
1	K	253	HIS	CA-C-N	7.21	128.85	119.84
1	K	253	HIS	C-N-CA	7.21	128.85	119.84
1	C	253	HIS	CA-C-N	7.21	128.85	119.84
1	C	253	HIS	C-N-CA	7.21	128.85	119.84
1	L	424	GLN	CG-CD-NE2	6.69	126.44	116.40
1	B	424	GLN	CG-CD-NE2	6.69	126.44	116.40
1	F	424	GLN	CG-CD-NE2	6.68	126.43	116.40
1	C	424	GLN	CG-CD-NE2	6.68	126.41	116.40
1	D	424	GLN	CG-CD-NE2	6.67	126.41	116.40
1	I	424	GLN	CG-CD-NE2	6.67	126.41	116.40
1	A	424	GLN	CG-CD-NE2	6.67	126.41	116.40
1	E	424	GLN	CG-CD-NE2	6.67	126.40	116.40
1	G	424	GLN	CG-CD-NE2	6.67	126.40	116.40
1	O	424	GLN	CG-CD-NE2	6.67	126.40	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	424	GLN	CG-CD-NE2	6.67	126.40	116.40
1	J	424	GLN	CG-CD-NE2	6.66	126.39	116.40
1	K	424	GLN	CG-CD-NE2	6.65	126.38	116.40
1	M	424	GLN	CG-CD-NE2	6.64	126.36	116.40
1	G	375	TYR	N-CA-C	6.05	120.83	113.38
1	I	175	VAL	CA-C-N	6.05	127.00	119.98
1	I	175	VAL	C-N-CA	6.05	127.00	119.98
1	C	375	TYR	N-CA-C	6.04	120.81	113.38
1	E	175	VAL	CA-C-N	6.04	126.99	119.98
1	E	175	VAL	C-N-CA	6.04	126.99	119.98
1	F	375	TYR	N-CA-C	6.04	120.80	113.38
1	L	375	TYR	N-CA-C	6.03	120.80	113.38
1	B	375	TYR	N-CA-C	6.03	120.79	113.38
1	O	375	TYR	N-CA-C	6.02	120.79	113.38
1	J	175	VAL	CA-C-N	6.02	126.96	119.98
1	J	175	VAL	C-N-CA	6.02	126.96	119.98
1	D	375	TYR	N-CA-C	6.02	120.78	113.38
1	J	375	TYR	N-CA-C	6.02	120.78	113.38
1	A	375	TYR	N-CA-C	6.01	120.78	113.38
1	D	175	VAL	CA-C-N	6.01	126.95	119.98
1	D	175	VAL	C-N-CA	6.01	126.95	119.98
1	I	375	TYR	N-CA-C	6.01	120.78	113.38
1	F	175	VAL	CA-C-N	6.01	126.95	119.98
1	F	175	VAL	C-N-CA	6.01	126.95	119.98
1	M	375	TYR	N-CA-C	6.01	120.77	113.38
1	C	175	VAL	CA-C-N	6.01	126.95	119.98
1	C	175	VAL	C-N-CA	6.01	126.95	119.98
1	G	175	VAL	CA-C-N	6.01	126.95	119.98
1	G	175	VAL	C-N-CA	6.01	126.95	119.98
1	K	375	TYR	N-CA-C	6.01	120.77	113.38
1	L	175	VAL	CA-C-N	6.01	126.95	119.98
1	L	175	VAL	C-N-CA	6.01	126.95	119.98
1	A	175	VAL	CA-C-N	6.00	126.94	119.98
1	A	175	VAL	C-N-CA	6.00	126.94	119.98
1	E	375	TYR	N-CA-C	6.00	120.76	113.38
1	H	175	VAL	CA-C-N	6.00	126.94	119.98
1	H	175	VAL	C-N-CA	6.00	126.94	119.98
1	K	175	VAL	CA-C-N	5.99	126.93	119.98
1	K	175	VAL	C-N-CA	5.99	126.93	119.98
1	M	175	VAL	CA-C-N	5.99	126.93	119.98
1	M	175	VAL	C-N-CA	5.99	126.93	119.98
1	B	175	VAL	CA-C-N	5.98	126.92	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	175	VAL	C-N-CA	5.98	126.92	119.98
1	H	375	TYR	N-CA-C	5.98	120.73	113.38
1	O	175	VAL	CA-C-N	5.96	126.89	119.98
1	O	175	VAL	C-N-CA	5.96	126.89	119.98
1	E	516	THR	N-CA-C	-5.60	106.30	113.02
1	E	264	VAL	N-CA-C	5.60	115.94	108.11
1	A	264	VAL	N-CA-C	5.59	115.94	108.11
1	O	264	VAL	N-CA-C	5.59	115.93	108.11
1	H	264	VAL	N-CA-C	5.59	115.93	108.11
1	C	264	VAL	N-CA-C	5.58	115.93	108.11
1	F	264	VAL	N-CA-C	5.58	115.93	108.11
1	K	264	VAL	N-CA-C	5.58	115.93	108.11
1	M	516	THR	N-CA-C	-5.58	106.32	113.02
1	M	264	VAL	N-CA-C	5.58	115.92	108.11
1	O	516	THR	N-CA-C	-5.57	106.33	113.02
1	D	264	VAL	N-CA-C	5.57	115.91	108.11
1	I	264	VAL	N-CA-C	5.57	115.90	108.11
1	B	264	VAL	N-CA-C	5.56	115.90	108.11
1	G	264	VAL	N-CA-C	5.56	115.90	108.11
1	D	516	THR	N-CA-C	-5.56	106.35	113.02
1	J	264	VAL	N-CA-C	5.56	115.89	108.11
1	F	516	THR	N-CA-C	-5.55	106.35	113.02
1	J	516	THR	N-CA-C	-5.55	106.36	113.02
1	L	264	VAL	N-CA-C	5.55	115.88	108.11
1	C	516	THR	N-CA-C	-5.55	106.36	113.02
1	A	516	THR	N-CA-C	-5.55	106.36	113.02
1	H	516	THR	N-CA-C	-5.55	106.36	113.02
1	B	516	THR	N-CA-C	-5.55	106.36	113.02
1	I	516	THR	N-CA-C	-5.54	106.37	113.02
1	K	516	THR	N-CA-C	-5.54	106.38	113.02
1	L	516	THR	N-CA-C	-5.53	106.38	113.02
1	G	516	THR	N-CA-C	-5.53	106.38	113.02
1	G	411	TYR	CA-C-N	-5.45	113.02	119.84
1	G	411	TYR	C-N-CA	-5.45	113.02	119.84
1	M	411	TYR	CA-C-N	-5.44	113.04	119.84
1	M	411	TYR	C-N-CA	-5.44	113.04	119.84
1	H	411	TYR	CA-C-N	-5.43	113.05	119.84
1	H	411	TYR	C-N-CA	-5.43	113.05	119.84
1	K	411	TYR	CA-C-N	-5.43	113.05	119.84
1	K	411	TYR	C-N-CA	-5.43	113.05	119.84
1	D	411	TYR	CA-C-N	-5.41	113.08	119.84
1	D	411	TYR	C-N-CA	-5.41	113.08	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	411	TYR	CA-C-N	-5.40	113.09	119.84
1	A	411	TYR	C-N-CA	-5.40	113.09	119.84
1	J	411	TYR	CA-C-N	-5.40	113.09	119.84
1	J	411	TYR	C-N-CA	-5.40	113.09	119.84
1	O	411	TYR	CA-C-N	-5.40	113.09	119.84
1	O	411	TYR	C-N-CA	-5.40	113.09	119.84
1	E	411	TYR	CA-C-N	-5.39	113.10	119.84
1	E	411	TYR	C-N-CA	-5.39	113.10	119.84
1	I	411	TYR	CA-C-N	-5.39	113.10	119.84
1	I	411	TYR	C-N-CA	-5.39	113.10	119.84
1	L	411	TYR	CA-C-N	-5.39	113.11	119.84
1	L	411	TYR	C-N-CA	-5.39	113.11	119.84
1	C	411	TYR	CA-C-N	-5.39	113.11	119.84
1	C	411	TYR	C-N-CA	-5.39	113.11	119.84
1	F	411	TYR	CA-C-N	-5.38	113.12	119.84
1	F	411	TYR	C-N-CA	-5.38	113.12	119.84
1	B	411	TYR	CA-C-N	-5.36	113.14	119.84
1	B	411	TYR	C-N-CA	-5.36	113.14	119.84
1	F	402	SER	N-CA-C	-5.22	106.82	114.39
1	A	402	SER	N-CA-C	-5.22	106.82	114.39
1	O	402	SER	N-CA-C	-5.22	106.82	114.39
1	C	402	SER	N-CA-C	-5.20	106.85	114.39
1	D	402	SER	N-CA-C	-5.20	106.86	114.39
1	G	402	SER	N-CA-C	-5.20	106.86	114.39
1	L	402	SER	N-CA-C	-5.19	106.86	114.39
1	M	402	SER	N-CA-C	-5.19	106.86	114.39
1	E	402	SER	N-CA-C	-5.19	106.87	114.39
1	B	402	SER	N-CA-C	-5.18	106.87	114.39
1	I	402	SER	N-CA-C	-5.18	106.87	114.39
1	H	402	SER	N-CA-C	-5.18	106.88	114.39
1	K	402	SER	N-CA-C	-5.18	106.88	114.39
1	J	402	SER	N-CA-C	-5.18	106.88	114.39
1	G	378	LEU	CA-C-N	5.15	125.16	119.90
1	G	378	LEU	C-N-CA	5.15	125.16	119.90
1	A	378	LEU	CA-C-N	5.15	125.15	119.90
1	A	378	LEU	C-N-CA	5.15	125.15	119.90
1	F	378	LEU	CA-C-N	5.14	125.14	119.90
1	F	378	LEU	C-N-CA	5.14	125.14	119.90
1	I	378	LEU	CA-C-N	5.14	125.14	119.90
1	I	378	LEU	C-N-CA	5.14	125.14	119.90
1	M	210	ILE	N-CA-C	5.14	117.51	111.09
1	B	378	LEU	CA-C-N	5.13	125.13	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	378	LEU	C-N-CA	5.13	125.13	119.90
1	L	210	ILE	N-CA-C	5.13	117.50	111.09
1	K	489	ALA	N-CA-C	-5.12	100.95	109.46
1	C	210	ILE	N-CA-C	5.12	117.49	111.09
1	D	378	LEU	CA-C-N	5.12	125.12	119.90
1	D	378	LEU	C-N-CA	5.12	125.12	119.90
1	B	489	ALA	N-CA-C	-5.12	100.96	109.46
1	K	378	LEU	CA-C-N	5.12	125.12	119.90
1	K	378	LEU	C-N-CA	5.12	125.12	119.90
1	L	378	LEU	CA-C-N	5.12	125.12	119.90
1	L	378	LEU	C-N-CA	5.12	125.12	119.90
1	J	378	LEU	CA-C-N	5.12	125.12	119.90
1	J	378	LEU	C-N-CA	5.12	125.12	119.90
1	F	489	ALA	N-CA-C	-5.11	100.97	109.46
1	H	489	ALA	N-CA-C	-5.11	100.97	109.46
1	M	489	ALA	N-CA-C	-5.11	100.97	109.46
1	G	210	ILE	N-CA-C	5.11	117.47	111.09
1	I	489	ALA	N-CA-C	-5.11	100.98	109.46
1	J	489	ALA	N-CA-C	-5.10	100.99	109.46
1	L	489	ALA	N-CA-C	-5.10	100.99	109.46
1	C	378	LEU	CA-C-N	5.10	125.10	119.90
1	C	378	LEU	C-N-CA	5.10	125.10	119.90
1	D	489	ALA	N-CA-C	-5.10	101.00	109.46
1	C	489	ALA	N-CA-C	-5.10	101.00	109.46
1	E	378	LEU	CA-C-N	5.10	125.10	119.90
1	E	378	LEU	C-N-CA	5.10	125.10	119.90
1	O	489	ALA	N-CA-C	-5.10	101.00	109.46
1	A	489	ALA	N-CA-C	-5.10	101.00	109.46
1	O	210	ILE	N-CA-C	5.10	117.46	111.09
1	B	210	ILE	N-CA-C	5.09	117.46	111.09
1	F	210	ILE	N-CA-C	5.09	117.46	111.09
1	K	210	ILE	N-CA-C	5.09	117.46	111.09
1	D	210	ILE	N-CA-C	5.09	117.45	111.09
1	E	489	ALA	N-CA-C	-5.09	101.01	109.46
1	G	489	ALA	N-CA-C	-5.09	101.01	109.46
1	I	210	ILE	N-CA-C	5.09	117.45	111.09
1	O	378	LEU	CA-C-N	5.09	125.09	119.90
1	O	378	LEU	C-N-CA	5.09	125.09	119.90
1	H	210	ILE	N-CA-C	5.08	117.45	111.09
1	E	210	ILE	N-CA-C	5.08	117.44	111.09
1	H	378	LEU	CA-C-N	5.08	125.08	119.90
1	H	378	LEU	C-N-CA	5.08	125.08	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	210	ILE	N-CA-C	5.07	117.43	111.09
1	J	210	ILE	N-CA-C	5.07	117.42	111.09
1	M	378	LEU	CA-C-N	5.06	125.06	119.90
1	M	378	LEU	C-N-CA	5.06	125.06	119.90
1	M	199	LYS	N-CA-C	-5.02	107.14	114.12
1	L	262	VAL	N-CA-C	5.02	115.14	108.11
1	O	262	VAL	N-CA-C	5.02	115.14	108.11
1	E	262	VAL	N-CA-C	5.02	115.14	108.11
1	E	596	PHE	N-CA-C	5.02	117.89	110.46
1	A	262	VAL	N-CA-C	5.01	115.13	108.11
1	C	262	VAL	N-CA-C	5.01	115.12	108.11

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	A	4365	0	4318	361	0
1	B	4365	0	4318	361	9
1	C	4365	0	4318	355	5
1	D	4365	0	4318	354	6
1	E	4365	0	4318	357	3
1	F	4365	0	4318	363	0
1	G	4365	0	4318	358	1
1	H	4365	0	4318	381	10
1	I	4365	0	4318	391	0
1	J	4365	0	4318	386	3
1	K	4365	0	4318	380	4
1	L	4365	0	4318	373	10
1	M	4365	0	4318	375	5
1	O	4365	0	4318	362	10
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0
2	I	2	0	0	0	0
2	J	2	0	0	0	0
2	K	2	0	0	0	0
2	L	2	0	0	0	0
2	M	2	0	0	0	0
2	O	2	0	0	0	0
All	All	61138	0	60452	4815	33

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 40.

All (4815) 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:H:319:SER:N	1:I:414:LYS:HG3	1.61	1.15
1:H:319:SER:H	1:I:414:LYS:HG3	0.99	1.11
1:H:642:TYR:HB2	1:H:665:ILE:HD11	1.43	1.01
1:M:642:TYR:HB2	1:M:665:ILE:HD11	1.43	1.01
1:J:642:TYR:HB2	1:J:665:ILE:HD11	1.43	1.01
1:D:642:TYR:HB2	1:D:665:ILE:HD11	1.43	1.00
1:K:642:TYR:HB2	1:K:665:ILE:HD11	1.43	1.00
1:L:517:THR:HG23	1:M:199:LYS:O	1.60	1.00
1:E:642:TYR:HB2	1:E:665:ILE:HD11	1.43	0.99
1:C:642:TYR:HB2	1:C:665:ILE:HD11	1.43	0.99
1:J:517:THR:HG23	1:K:199:LYS:O	1.63	0.99
1:L:319:SER:H	1:M:414:LYS:HG3	1.24	0.99
1:L:642:TYR:HB2	1:L:665:ILE:HD11	1.43	0.99
1:A:642:TYR:HB2	1:A:665:ILE:HD11	1.43	0.99
1:G:642:TYR:HB2	1:G:665:ILE:HD11	1.43	0.98
1:O:642:TYR:HB2	1:O:665:ILE:HD11	1.43	0.98
1:F:642:TYR:HB2	1:F:665:ILE:HD11	1.43	0.98
1:B:642:TYR:HB2	1:B:665:ILE:HD11	1.43	0.97
1:I:483:GLN:HE22	1:J:245:LYS:H	1.10	0.97
1:I:642:TYR:HB2	1:I:665:ILE:HD11	1.43	0.97
1:J:319:SER:H	1:K:414:LYS:HG3	1.27	0.97
1:H:318:GLY:HA2	1:I:410:TYR:CE1	1.98	0.96
1:J:318:GLY:HA2	1:K:410:TYR:CE1	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:521:MET:HA	1:L:521:MET:HE3	1.48	0.95
1:E:521:MET:HA	1:E:521:MET:HE3	1.48	0.95
1:C:521:MET:HA	1:C:521:MET:HE3	1.48	0.95
1:K:521:MET:HA	1:K:521:MET:HE3	1.48	0.95
1:M:521:MET:HA	1:M:521:MET:HE3	1.48	0.95
1:O:521:MET:HA	1:O:521:MET:HE3	1.48	0.95
1:F:521:MET:HA	1:F:521:MET:HE3	1.48	0.94
1:A:521:MET:HA	1:A:521:MET:HE3	1.48	0.93
1:D:521:MET:HA	1:D:521:MET:HE3	1.48	0.93
1:J:521:MET:HE3	1:J:521:MET:HA	1.48	0.93
1:G:414:LYS:HG3	1:M:319:SER:H	1.32	0.92
1:G:303:VAL:CG2	1:H:670:GLN:HG2	2.00	0.92
1:I:521:MET:HA	1:I:521:MET:HE3	1.48	0.92
1:J:318:GLY:HA2	1:K:410:TYR:HE1	1.33	0.92
1:H:521:MET:HA	1:H:521:MET:HE3	1.48	0.92
1:B:521:MET:HE3	1:B:521:MET:HA	1.48	0.91
1:G:521:MET:HA	1:G:521:MET:HE3	1.48	0.91
1:H:318:GLY:CA	1:I:410:TYR:HE1	1.84	0.91
1:G:466:ASN:O	1:M:226:TRP:HB2	1.69	0.90
1:B:517:THR:HG23	1:C:199:LYS:O	1.71	0.90
1:F:512:ASP:OD1	1:O:245:LYS:HE3	1.72	0.90
1:K:189:VAL:HG13	1:L:199:LYS:CG	2.01	0.90
1:K:303:VAL:CG2	1:L:670:GLN:HG2	2.02	0.89
1:G:189:VAL:HG13	1:H:199:LYS:CG	2.02	0.89
1:F:226:TRP:HB2	1:O:466:ASN:O	1.72	0.89
1:C:183:ILE:HG12	1:C:203:LEU:HD21	1.55	0.89
1:G:517:THR:HG23	1:H:199:LYS:O	1.72	0.89
1:G:468:ARG:HH12	1:M:232:PRO:HA	1.37	0.89
1:E:183:ILE:HG12	1:E:203:LEU:HD21	1.55	0.89
1:B:183:ILE:HG12	1:B:203:LEU:HD21	1.55	0.88
1:J:319:SER:N	1:K:414:LYS:HG3	1.87	0.88
1:I:183:ILE:HG12	1:I:203:LEU:HD21	1.55	0.88
1:K:483:GLN:HE22	1:L:245:LYS:H	1.18	0.88
1:O:183:ILE:HG12	1:O:203:LEU:HD21	1.55	0.88
1:D:517:THR:HG23	1:E:199:LYS:O	1.74	0.87
1:K:183:ILE:HG12	1:K:203:LEU:HD21	1.55	0.87
1:L:189:VAL:HG13	1:M:199:LYS:CG	2.04	0.87
1:M:183:ILE:HG12	1:M:203:LEU:HD21	1.55	0.87
1:A:245:LYS:HE3	1:O:512:ASP:OD1	1.74	0.87
1:F:183:ILE:HG12	1:F:203:LEU:HD21	1.55	0.87
1:C:521:MET:HE1	1:C:525:GLU:HG2	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:521:MET:HE1	1:E:525:GLU:HG2	1.57	0.87
1:M:521:MET:HE1	1:M:525:GLU:HG2	1.57	0.87
1:A:226:TRP:HB2	1:B:466:ASN:O	1.75	0.86
1:K:521:MET:HE1	1:K:525:GLU:HG2	1.57	0.86
1:L:521:MET:HE1	1:L:525:GLU:HG2	1.57	0.86
1:J:318:GLY:CA	1:K:410:TYR:HE1	1.87	0.86
1:J:521:MET:HE1	1:J:525:GLU:HG2	1.57	0.86
1:D:183:ILE:HG12	1:D:203:LEU:HD21	1.55	0.86
1:G:183:ILE:HG12	1:G:203:LEU:HD21	1.55	0.86
1:F:513:PRO:HB2	1:O:240:THR:O	1.75	0.86
1:D:521:MET:HE1	1:D:525:GLU:HG2	1.57	0.86
1:J:183:ILE:HG12	1:J:203:LEU:HD21	1.55	0.86
1:A:183:ILE:HG12	1:A:203:LEU:HD21	1.55	0.86
1:H:183:ILE:HG12	1:H:203:LEU:HD21	1.55	0.86
1:A:606:GLY:HA2	1:A:638:ILE:HD12	1.58	0.86
1:C:606:GLY:HA2	1:C:638:ILE:HD12	1.58	0.85
1:F:521:MET:HE1	1:F:525:GLU:HG2	1.57	0.85
1:H:606:GLY:HA2	1:H:638:ILE:HD12	1.58	0.85
1:L:183:ILE:HG12	1:L:203:LEU:HD21	1.55	0.85
1:E:606:GLY:HA2	1:E:638:ILE:HD12	1.58	0.85
1:I:521:MET:HE1	1:I:525:GLU:HG2	1.57	0.85
1:F:606:GLY:HA2	1:F:638:ILE:HD12	1.58	0.85
1:H:318:GLY:CA	1:I:410:TYR:CE1	2.57	0.85
1:I:517:THR:HG23	1:J:199:LYS:O	1.76	0.85
1:B:521:MET:HE1	1:B:525:GLU:HG2	1.57	0.85
1:L:606:GLY:HA2	1:L:638:ILE:HD12	1.58	0.85
1:F:319:SER:H	1:O:414:LYS:HG3	1.41	0.84
1:G:521:MET:HE1	1:G:525:GLU:HG2	1.57	0.84
1:J:606:GLY:HA2	1:J:638:ILE:HD12	1.58	0.84
1:B:606:GLY:HA2	1:B:638:ILE:HD12	1.58	0.84
1:O:521:MET:HE1	1:O:525:GLU:HG2	1.57	0.84
1:H:521:MET:HE1	1:H:525:GLU:HG2	1.57	0.84
1:I:606:GLY:HA2	1:I:638:ILE:HD12	1.58	0.84
1:L:196:VAL:HG12	1:L:201:THR:HG22	1.60	0.84
1:L:319:SER:N	1:M:414:LYS:HG3	1.93	0.84
1:A:521:MET:HE1	1:A:525:GLU:HG2	1.57	0.84
1:C:366:TYR:HB2	1:C:411:TYR:HB2	1.60	0.84
1:I:196:VAL:HG12	1:I:201:THR:HG22	1.60	0.84
1:E:319:SER:H	1:F:414:LYS:HG3	1.42	0.83
1:G:196:VAL:HG12	1:G:201:THR:HG22	1.60	0.83
1:K:606:GLY:HA2	1:K:638:ILE:HD12	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:366:TYR:HB2	1:A:411:TYR:HB2	1.60	0.83
1:G:303:VAL:HG23	1:H:670:GLN:HG2	1.58	0.83
1:J:196:VAL:HG12	1:J:201:THR:HG22	1.60	0.83
1:O:606:GLY:HA2	1:O:638:ILE:HD12	1.58	0.83
1:D:366:TYR:HB2	1:D:411:TYR:HB2	1.60	0.83
1:J:366:TYR:HB2	1:J:411:TYR:HB2	1.60	0.83
1:K:196:VAL:HG12	1:K:201:THR:HG22	1.60	0.83
1:B:366:TYR:HB2	1:B:411:TYR:HB2	1.60	0.83
1:I:366:TYR:HB2	1:I:411:TYR:HB2	1.60	0.83
1:C:483:GLN:HE22	1:D:245:LYS:H	1.25	0.83
1:E:196:VAL:HG12	1:E:201:THR:HG22	1.60	0.83
1:D:606:GLY:HA2	1:D:638:ILE:HD12	1.58	0.83
1:G:483:GLN:HE22	1:H:245:LYS:H	1.26	0.83
1:I:184:PRO:HD2	1:I:187:LEU:HD12	1.61	0.83
1:J:184:PRO:HD2	1:J:187:LEU:HD12	1.61	0.83
1:M:606:GLY:HA2	1:M:638:ILE:HD12	1.58	0.83
1:B:196:VAL:HG12	1:B:201:THR:HG22	1.60	0.83
1:G:606:GLY:HA2	1:G:638:ILE:HD12	1.58	0.83
1:H:319:SER:CA	1:I:414:LYS:HG3	2.09	0.83
1:K:403:GLN:NE2	1:K:403:GLN:H	1.77	0.83
1:M:196:VAL:HG12	1:M:201:THR:HG22	1.60	0.83
1:O:196:VAL:HG12	1:O:201:THR:HG22	1.60	0.83
1:A:184:PRO:HD2	1:A:187:LEU:HD12	1.61	0.83
1:C:403:GLN:NE2	1:C:403:GLN:H	1.77	0.83
1:O:366:TYR:HB2	1:O:411:TYR:HB2	1.60	0.83
1:E:366:TYR:HB2	1:E:411:TYR:HB2	1.60	0.82
1:H:184:PRO:HD2	1:H:187:LEU:HD12	1.61	0.82
1:L:224:GLU:OE2	1:M:201:THR:N	2.11	0.82
1:B:184:PRO:HD2	1:B:187:LEU:HD12	1.61	0.82
1:C:184:PRO:HD2	1:C:187:LEU:HD12	1.61	0.82
1:D:196:VAL:HG12	1:D:201:THR:HG22	1.60	0.82
1:F:403:GLN:NE2	1:F:403:GLN:H	1.77	0.82
1:A:403:GLN:NE2	1:A:403:GLN:H	1.77	0.82
1:E:403:GLN:NE2	1:E:403:GLN:H	1.77	0.82
1:F:196:VAL:HG12	1:F:201:THR:HG22	1.60	0.82
1:I:403:GLN:NE2	1:I:403:GLN:H	1.77	0.82
1:K:223:PRO:HD2	1:K:517:THR:HG22	1.62	0.82
1:J:403:GLN:NE2	1:J:403:GLN:H	1.77	0.82
1:M:223:PRO:HD2	1:M:517:THR:HG22	1.62	0.82
1:M:403:GLN:NE2	1:M:403:GLN:H	1.77	0.82
1:K:184:PRO:HD2	1:K:187:LEU:HD12	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:184:PRO:HD2	1:O:187:LEU:HD12	1.61	0.82
1:C:196:VAL:HG12	1:C:201:THR:HG22	1.60	0.82
1:E:223:PRO:HD2	1:E:517:THR:HG22	1.62	0.82
1:K:303:VAL:HG23	1:L:670:GLN:HG2	1.59	0.82
1:L:184:PRO:HD2	1:L:187:LEU:HD12	1.61	0.82
1:L:403:GLN:NE2	1:L:403:GLN:H	1.77	0.82
1:C:223:PRO:HD2	1:C:517:THR:HG22	1.62	0.82
1:D:403:GLN:NE2	1:D:403:GLN:H	1.77	0.82
1:G:366:TYR:HB2	1:G:411:TYR:HB2	1.60	0.82
1:G:403:GLN:NE2	1:G:403:GLN:H	1.77	0.82
1:H:196:VAL:HG12	1:H:201:THR:HG22	1.60	0.82
1:H:366:TYR:HB2	1:H:411:TYR:HB2	1.60	0.81
1:J:224:GLU:OE2	1:K:201:THR:N	2.12	0.81
1:K:366:TYR:HB2	1:K:411:TYR:HB2	1.60	0.81
1:B:403:GLN:NE2	1:B:403:GLN:H	1.77	0.81
1:E:232:PRO:HA	1:F:468:ARG:HH12	1.44	0.81
1:G:466:ASN:O	1:M:226:TRP:CB	2.29	0.81
1:H:223:PRO:HD2	1:H:517:THR:HG22	1.62	0.81
1:I:223:PRO:HD2	1:I:517:THR:HG22	1.62	0.81
1:J:483:GLN:HE22	1:K:245:LYS:H	1.29	0.81
1:A:403:GLN:H	1:A:403:GLN:HE21	1.29	0.81
1:G:223:PRO:HD2	1:G:517:THR:HG22	1.62	0.81
1:D:223:PRO:HD2	1:D:517:THR:HG22	1.62	0.81
1:G:184:PRO:HD2	1:G:187:LEU:HD12	1.61	0.81
1:L:403:GLN:H	1:L:403:GLN:HE21	1.29	0.81
1:A:196:VAL:HG12	1:A:201:THR:HG22	1.60	0.81
1:A:223:PRO:HD2	1:A:517:THR:HG22	1.62	0.81
1:F:366:TYR:HB2	1:F:411:TYR:HB2	1.60	0.81
1:H:403:GLN:NE2	1:H:403:GLN:H	1.77	0.81
1:O:403:GLN:NE2	1:O:403:GLN:H	1.77	0.81
1:O:403:GLN:H	1:O:403:GLN:HE21	1.29	0.81
1:C:403:GLN:H	1:C:403:GLN:HE21	1.29	0.81
1:E:184:PRO:HD2	1:E:187:LEU:HD12	1.61	0.81
1:F:184:PRO:HD2	1:F:187:LEU:HD12	1.61	0.81
1:J:189:VAL:HG13	1:K:199:LYS:CG	2.11	0.81
1:L:266:MET:HA	1:L:364:ILE:HG22	1.63	0.81
1:D:184:PRO:HD2	1:D:187:LEU:HD12	1.61	0.81
1:M:366:TYR:HB2	1:M:411:TYR:HB2	1.60	0.81
1:C:240:THR:HG23	1:C:242:ARG:H	1.46	0.81
1:D:266:MET:HA	1:D:364:ILE:HG22	1.63	0.81
1:F:223:PRO:HD2	1:F:517:THR:HG22	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:240:THR:HG23	1:G:242:ARG:H	1.46	0.81
1:G:403:GLN:H	1:G:403:GLN:HE21	1.29	0.81
1:K:517:THR:HG23	1:L:199:LYS:O	1.81	0.81
1:I:240:THR:HG23	1:I:242:ARG:H	1.46	0.80
1:L:223:PRO:HD2	1:L:517:THR:HG22	1.62	0.80
1:C:266:MET:HA	1:C:364:ILE:HG22	1.63	0.80
1:H:240:THR:HG23	1:H:242:ARG:H	1.46	0.80
1:B:223:PRO:HD2	1:B:517:THR:HG22	1.62	0.80
1:L:240:THR:HG23	1:L:242:ARG:H	1.46	0.80
1:L:366:TYR:HB2	1:L:411:TYR:HB2	1.60	0.80
1:M:240:THR:HG23	1:M:242:ARG:H	1.46	0.80
1:A:240:THR:HG23	1:A:242:ARG:H	1.46	0.80
1:O:266:MET:HA	1:O:364:ILE:HG22	1.63	0.80
1:K:403:GLN:H	1:K:403:GLN:HE21	1.29	0.80
1:M:266:MET:HA	1:M:364:ILE:HG22	1.63	0.80
1:O:223:PRO:HD2	1:O:517:THR:HG22	1.62	0.80
1:E:226:TRP:HB2	1:F:466:ASN:O	1.82	0.80
1:K:266:MET:HA	1:K:364:ILE:HG22	1.63	0.80
1:M:403:GLN:H	1:M:403:GLN:HE21	1.29	0.80
1:E:240:THR:HG23	1:E:242:ARG:H	1.46	0.80
1:E:266:MET:HA	1:E:364:ILE:HG22	1.63	0.80
1:M:184:PRO:HD2	1:M:187:LEU:HD12	1.61	0.80
1:B:240:THR:HG23	1:B:242:ARG:H	1.46	0.80
1:F:240:THR:HG23	1:F:242:ARG:H	1.46	0.80
1:F:403:GLN:H	1:F:403:GLN:HE21	1.29	0.79
1:J:178:ARG:NH1	1:K:200:ARG:HB3	1.97	0.79
1:B:266:MET:HA	1:B:364:ILE:HG22	1.63	0.79
1:J:223:PRO:HD2	1:J:517:THR:HG22	1.62	0.79
1:D:240:THR:HG23	1:D:242:ARG:H	1.46	0.79
1:D:403:GLN:H	1:D:403:GLN:HE21	1.29	0.79
1:L:483:GLN:HE22	1:M:245:LYS:H	1.25	0.79
1:A:266:MET:HA	1:A:364:ILE:HG22	1.63	0.79
1:F:266:MET:HA	1:F:364:ILE:HG22	1.63	0.79
1:A:524:LYS:HD2	1:A:579:ASP:HB3	1.65	0.79
1:E:236:PHE:O	1:E:240:THR:HG22	1.83	0.79
1:E:403:GLN:H	1:E:403:GLN:HE21	1.29	0.79
1:G:266:MET:HA	1:G:364:ILE:HG22	1.63	0.79
1:I:524:LYS:HD2	1:I:579:ASP:HB3	1.65	0.79
1:O:240:THR:HG23	1:O:242:ARG:H	1.46	0.78
1:G:378:LEU:HD13	1:G:401:LEU:HD21	1.66	0.78
1:F:524:LYS:HD2	1:F:579:ASP:HB3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:403:GLN:H	1:H:403:GLN:HE21	1.29	0.78
1:A:378:LEU:HD13	1:A:401:LEU:HD21	1.66	0.78
1:D:236:PHE:O	1:D:240:THR:HG22	1.83	0.78
1:F:378:LEU:HD13	1:F:401:LEU:HD21	1.66	0.78
1:G:524:LYS:HD2	1:G:579:ASP:HB3	1.65	0.78
1:I:266:MET:HA	1:I:364:ILE:HG22	1.63	0.78
1:O:378:LEU:HD13	1:O:401:LEU:HD21	1.66	0.78
1:C:378:LEU:HD13	1:C:401:LEU:HD21	1.66	0.78
1:E:524:LYS:HD2	1:E:579:ASP:HB3	1.65	0.78
1:H:266:MET:HA	1:H:364:ILE:HG22	1.63	0.78
1:K:236:PHE:O	1:K:240:THR:HG22	1.83	0.78
1:K:240:THR:HG23	1:K:242:ARG:H	1.46	0.78
1:F:236:PHE:O	1:F:240:THR:HG22	1.83	0.78
1:H:236:PHE:O	1:H:240:THR:HG22	1.83	0.78
1:C:236:PHE:O	1:C:240:THR:HG22	1.83	0.78
1:G:236:PHE:O	1:G:240:THR:HG22	1.83	0.78
1:J:236:PHE:O	1:J:240:THR:HG22	1.83	0.78
1:L:524:LYS:HD2	1:L:579:ASP:HB3	1.65	0.78
1:B:236:PHE:O	1:B:240:THR:HG22	1.83	0.78
1:I:403:GLN:H	1:I:403:GLN:HE21	1.29	0.78
1:J:266:MET:HA	1:J:364:ILE:HG22	1.63	0.78
1:K:378:LEU:HD13	1:K:401:LEU:HD21	1.66	0.78
1:B:403:GLN:H	1:B:403:GLN:HE21	1.29	0.77
1:J:524:LYS:HD2	1:J:579:ASP:HB3	1.65	0.77
1:G:245:LYS:H	1:M:483:GLN:HE22	1.30	0.77
1:M:524:LYS:HD2	1:M:579:ASP:HB3	1.65	0.77
1:I:423:ALA:O	1:I:424:GLN:HB3	1.85	0.77
1:M:236:PHE:O	1:M:240:THR:HG22	1.83	0.77
1:C:517:THR:HG23	1:D:199:LYS:O	1.84	0.77
1:M:423:ALA:O	1:M:424:GLN:HB3	1.85	0.77
1:O:524:LYS:HD2	1:O:579:ASP:HB3	1.65	0.77
1:A:236:PHE:O	1:A:240:THR:HG22	1.83	0.77
1:B:524:LYS:HD2	1:B:579:ASP:HB3	1.65	0.77
1:I:236:PHE:O	1:I:240:THR:HG22	1.83	0.77
1:J:240:THR:HG23	1:J:242:ARG:H	1.46	0.77
1:J:403:GLN:H	1:J:403:GLN:HE21	1.29	0.77
1:D:524:LYS:HD2	1:D:579:ASP:HB3	1.65	0.77
1:E:423:ALA:O	1:E:424:GLN:HB3	1.85	0.77
1:E:645:GLU:HB3	1:E:655:VAL:HG22	1.67	0.77
1:H:319:SER:H	1:I:414:LYS:CG	1.91	0.77
1:B:378:LEU:HD13	1:B:401:LEU:HD21	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:645:GLU:HB3	1:J:655:VAL:HG22	1.67	0.77
1:C:423:ALA:O	1:C:424:GLN:HB3	1.85	0.77
1:H:645:GLU:HB3	1:H:655:VAL:HG22	1.67	0.77
1:A:423:ALA:O	1:A:424:GLN:HB3	1.85	0.77
1:C:226:TRP:HB2	1:D:466:ASN:O	1.84	0.77
1:F:645:GLU:HB3	1:F:655:VAL:HG22	1.67	0.77
1:H:524:LYS:HD2	1:H:579:ASP:HB3	1.65	0.77
1:L:236:PHE:O	1:L:240:THR:HG22	1.83	0.77
1:L:318:GLY:HA2	1:M:410:TYR:CE1	2.20	0.77
1:C:524:LYS:HD2	1:C:579:ASP:HB3	1.65	0.76
1:J:378:LEU:HD13	1:J:401:LEU:HD21	1.66	0.76
1:L:423:ALA:O	1:L:424:GLN:HB3	1.85	0.76
1:O:236:PHE:O	1:O:240:THR:HG22	1.83	0.76
1:B:264:VAL:HG21	1:B:381:THR:HG21	1.68	0.76
1:B:318:GLY:HA2	1:C:410:TYR:HE1	1.51	0.76
1:H:264:VAL:HG21	1:H:381:THR:HG21	1.68	0.76
1:J:423:ALA:O	1:J:424:GLN:HB3	1.85	0.76
1:L:378:LEU:HD13	1:L:401:LEU:HD21	1.65	0.76
1:O:645:GLU:HB3	1:O:655:VAL:HG22	1.67	0.76
1:F:423:ALA:O	1:F:424:GLN:HB3	1.85	0.76
1:I:303:VAL:CG2	1:J:670:GLN:HG2	2.15	0.76
1:O:423:ALA:O	1:O:424:GLN:HB3	1.85	0.76
1:A:240:THR:O	1:O:513:PRO:HB2	1.85	0.76
1:C:645:GLU:HB3	1:C:655:VAL:HG22	1.67	0.76
1:J:264:VAL:HG21	1:J:381:THR:HG21	1.68	0.76
1:L:645:GLU:HB3	1:L:655:VAL:HG22	1.67	0.76
1:M:378:LEU:HD13	1:M:401:LEU:HD21	1.66	0.76
1:M:645:GLU:HB3	1:M:655:VAL:HG22	1.67	0.76
1:I:378:LEU:HD13	1:I:401:LEU:HD21	1.66	0.76
1:D:264:VAL:HG21	1:D:381:THR:HG21	1.68	0.76
1:G:645:GLU:HB3	1:G:655:VAL:HG22	1.67	0.76
1:K:423:ALA:O	1:K:424:GLN:HB3	1.85	0.76
1:A:264:VAL:HG21	1:A:381:THR:HG21	1.68	0.76
1:G:264:VAL:HG21	1:G:381:THR:HG21	1.68	0.76
1:H:378:LEU:HD13	1:H:401:LEU:HD21	1.66	0.76
1:K:524:LYS:HD2	1:K:579:ASP:HB3	1.65	0.76
1:O:264:VAL:HG21	1:O:381:THR:HG21	1.68	0.76
1:A:410:TYR:HE1	1:O:318:GLY:HA2	1.50	0.76
1:D:378:LEU:HD13	1:D:401:LEU:HD21	1.66	0.76
1:E:378:LEU:HD13	1:E:401:LEU:HD21	1.66	0.76
1:I:645:GLU:HB3	1:I:655:VAL:HG22	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:243:ILE:HG12	1:M:244:ASP:N	2.01	0.76
1:H:517:THR:HG23	1:I:199:LYS:O	1.86	0.75
1:J:318:GLY:CA	1:K:410:TYR:CE1	2.65	0.75
1:C:264:VAL:HG21	1:C:381:THR:HG21	1.68	0.75
1:D:423:ALA:O	1:D:424:GLN:HB3	1.85	0.75
1:E:324:PHE:HE1	1:E:588:ASN:HB3	1.52	0.75
1:A:243:ILE:HG12	1:A:244:ASP:N	2.01	0.75
1:F:243:ILE:HG12	1:F:244:ASP:N	2.01	0.75
1:F:264:VAL:HG21	1:F:381:THR:HG21	1.68	0.75
1:I:264:VAL:HG21	1:I:381:THR:HG21	1.68	0.75
1:A:645:GLU:HB3	1:A:655:VAL:HG22	1.67	0.75
1:A:513:PRO:HB2	1:B:240:THR:O	1.84	0.75
1:D:324:PHE:HE1	1:D:588:ASN:HB3	1.52	0.75
1:B:645:GLU:HB3	1:B:655:VAL:HG22	1.67	0.75
1:C:243:ILE:HG12	1:C:244:ASP:N	2.01	0.75
1:D:645:GLU:HB3	1:D:655:VAL:HG22	1.67	0.75
1:K:189:VAL:HG13	1:L:199:LYS:HG3	1.68	0.75
1:K:324:PHE:HE1	1:K:588:ASN:HB3	1.52	0.75
1:H:423:ALA:O	1:H:424:GLN:HB3	1.85	0.75
1:B:324:PHE:HE1	1:B:588:ASN:HB3	1.52	0.75
1:E:636:ARG:HA	1:E:639:LEU:HD23	1.69	0.75
1:G:243:ILE:HG12	1:G:244:ASP:N	2.01	0.75
1:L:264:VAL:HG21	1:L:381:THR:HG21	1.68	0.75
1:M:264:VAL:HG21	1:M:381:THR:HG21	1.68	0.75
1:B:423:ALA:O	1:B:424:GLN:HB3	1.85	0.74
1:K:645:GLU:HB3	1:K:655:VAL:HG22	1.67	0.74
1:M:636:ARG:HA	1:M:639:LEU:HD23	1.69	0.74
1:E:264:VAL:HG21	1:E:381:THR:HG21	1.68	0.74
1:F:636:ARG:HA	1:F:639:LEU:HD23	1.69	0.74
1:G:423:ALA:O	1:G:424:GLN:HB3	1.85	0.74
1:J:636:ARG:HA	1:J:639:LEU:HD23	1.69	0.74
1:K:243:ILE:HG12	1:K:244:ASP:N	2.01	0.74
1:C:361:ASN:HD21	1:C:423:ALA:HB2	1.53	0.74
1:L:636:ARG:HA	1:L:639:LEU:HD23	1.69	0.74
1:B:243:ILE:HG12	1:B:244:ASP:N	2.01	0.74
1:C:324:PHE:HE1	1:C:588:ASN:HB3	1.52	0.74
1:G:361:ASN:HD21	1:G:423:ALA:HB2	1.53	0.74
1:J:361:ASN:HD21	1:J:423:ALA:HB2	1.53	0.74
1:B:636:ARG:HA	1:B:639:LEU:HD23	1.69	0.74
1:C:636:ARG:HA	1:C:639:LEU:HD23	1.69	0.74
1:J:243:ILE:HG12	1:J:244:ASP:N	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:361:ASN:HD21	1:L:423:ALA:HB2	1.53	0.74
1:O:243:ILE:HG12	1:O:244:ASP:N	2.01	0.74
1:D:243:ILE:HG12	1:D:244:ASP:N	2.01	0.74
1:E:361:ASN:HD21	1:E:423:ALA:HB2	1.53	0.74
1:I:636:ARG:HA	1:I:639:LEU:HD23	1.69	0.74
1:A:361:ASN:HD21	1:A:423:ALA:HB2	1.53	0.74
1:A:324:PHE:HE1	1:A:588:ASN:HB3	1.52	0.74
1:A:636:ARG:HA	1:A:639:LEU:HD23	1.69	0.74
1:I:243:ILE:HG12	1:I:244:ASP:N	2.01	0.74
1:K:636:ARG:HA	1:K:639:LEU:HD23	1.69	0.74
1:L:243:ILE:HG12	1:L:244:ASP:N	2.01	0.74
1:E:243:ILE:HG12	1:E:244:ASP:N	2.01	0.74
1:K:264:VAL:HG21	1:K:381:THR:HG21	1.68	0.74
1:F:324:PHE:HE1	1:F:588:ASN:HB3	1.52	0.73
1:F:361:ASN:HD21	1:F:423:ALA:HB2	1.53	0.73
1:O:324:PHE:HE1	1:O:588:ASN:HB3	1.52	0.73
1:D:636:ARG:HA	1:D:639:LEU:HD23	1.69	0.73
1:M:324:PHE:HE1	1:M:588:ASN:HB3	1.52	0.73
1:J:324:PHE:HE1	1:J:588:ASN:HB3	1.52	0.73
1:G:636:ARG:HA	1:G:639:LEU:HD23	1.69	0.73
1:H:324:PHE:HE1	1:H:588:ASN:HB3	1.52	0.73
1:I:361:ASN:HD21	1:I:423:ALA:HB2	1.53	0.73
1:H:243:ILE:HG12	1:H:244:ASP:N	2.01	0.73
1:M:361:ASN:HD21	1:M:423:ALA:HB2	1.53	0.73
1:A:458:ASN:HD22	1:A:476:ASN:HB2	1.54	0.73
1:C:458:ASN:HD22	1:C:476:ASN:HB2	1.54	0.73
1:F:458:ASN:HD22	1:F:476:ASN:HB2	1.54	0.73
1:G:324:PHE:HE1	1:G:588:ASN:HB3	1.52	0.73
1:I:458:ASN:HD22	1:I:476:ASN:HB2	1.54	0.73
1:J:458:ASN:HD22	1:J:476:ASN:HB2	1.54	0.73
1:A:466:ASN:O	1:O:226:TRP:HB2	1.89	0.72
1:F:492:ILE:HB	1:F:590:LEU:HD13	1.71	0.72
1:I:324:PHE:HE1	1:I:588:ASN:HB3	1.52	0.72
1:M:492:ILE:HB	1:M:590:LEU:HD13	1.71	0.72
1:O:361:ASN:HD21	1:O:423:ALA:HB2	1.53	0.72
1:B:492:ILE:HB	1:B:590:LEU:HD13	1.71	0.72
1:G:492:ILE:HB	1:G:590:LEU:HD13	1.71	0.72
1:H:361:ASN:HD21	1:H:423:ALA:HB2	1.53	0.72
1:L:492:ILE:HB	1:L:590:LEU:HD13	1.71	0.72
1:M:365:ARG:NH2	1:M:418:PRO:HG3	2.05	0.72
1:C:365:ARG:NH2	1:C:418:PRO:HG3	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:492:ILE:HB	1:C:590:LEU:HD13	1.71	0.72
1:F:226:TRP:CB	1:O:466:ASN:O	2.37	0.72
1:H:319:SER:HA	1:I:414:LYS:CB	2.19	0.72
1:H:365:ARG:NH2	1:H:418:PRO:HG3	2.05	0.72
1:D:492:ILE:HB	1:D:590:LEU:HD13	1.71	0.72
1:E:365:ARG:NH2	1:E:418:PRO:HG3	2.05	0.72
1:I:492:ILE:HB	1:I:590:LEU:HD13	1.71	0.72
1:J:319:SER:CA	1:K:414:LYS:HG3	2.20	0.72
1:O:458:ASN:HD22	1:O:476:ASN:HB2	1.54	0.72
1:O:636:ARG:HA	1:O:639:LEU:HD23	1.69	0.72
1:B:458:ASN:HD22	1:B:476:ASN:HB2	1.54	0.72
1:D:365:ARG:NH2	1:D:418:PRO:HG3	2.05	0.72
1:B:361:ASN:HD21	1:B:423:ALA:HB2	1.53	0.72
1:K:365:ARG:NH2	1:K:418:PRO:HG3	2.05	0.72
1:K:458:ASN:HD22	1:K:476:ASN:HB2	1.54	0.72
1:L:324:PHE:HE1	1:L:588:ASN:HB3	1.52	0.72
1:D:458:ASN:HD22	1:D:476:ASN:HB2	1.54	0.72
1:F:365:ARG:NH2	1:F:418:PRO:HG3	2.04	0.72
1:H:636:ARG:HA	1:H:639:LEU:HD23	1.69	0.72
1:D:361:ASN:HD21	1:D:423:ALA:HB2	1.53	0.72
1:A:410:TYR:CE1	1:O:318:GLY:HA2	2.25	0.72
1:H:232:PRO:HA	1:I:468:ARG:HH12	1.55	0.72
1:K:361:ASN:HD21	1:K:423:ALA:HB2	1.53	0.72
1:E:458:ASN:HD22	1:E:476:ASN:HB2	1.54	0.71
1:F:319:SER:N	1:O:414:LYS:HG3	2.05	0.71
1:G:458:ASN:HD22	1:G:476:ASN:HB2	1.54	0.71
1:O:258:ALA:HA	1:O:371:THR:OG1	1.90	0.71
1:B:365:ARG:NH2	1:B:418:PRO:HG3	2.05	0.71
1:E:492:ILE:HB	1:E:590:LEU:HD13	1.71	0.71
1:M:458:ASN:HD22	1:M:476:ASN:HB2	1.54	0.71
1:D:258:ALA:HA	1:D:371:THR:OG1	1.91	0.71
1:I:365:ARG:NH2	1:I:418:PRO:HG3	2.05	0.71
1:J:258:ALA:HA	1:J:371:THR:OG1	1.90	0.71
1:L:365:ARG:NH2	1:L:418:PRO:HG3	2.05	0.71
1:M:384:VAL:HG11	1:M:449:ARG:HH21	1.56	0.71
1:A:365:ARG:NH2	1:A:418:PRO:HG3	2.04	0.71
1:F:384:VAL:HG11	1:F:449:ARG:HH21	1.56	0.71
1:H:492:ILE:HB	1:H:590:LEU:HD13	1.71	0.71
1:M:258:ALA:HA	1:M:371:THR:OG1	1.91	0.71
1:J:365:ARG:NH2	1:J:418:PRO:HG3	2.05	0.71
1:C:258:ALA:HA	1:C:371:THR:OG1	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:384:VAL:HG11	1:D:449:ARG:HH21	1.56	0.71
1:E:258:ALA:HA	1:E:371:THR:OG1	1.91	0.71
1:J:492:ILE:HB	1:J:590:LEU:HD13	1.71	0.71
1:A:258:ALA:HA	1:A:371:THR:OG1	1.91	0.71
1:A:295:THR:OG1	1:A:332:VAL:HG12	1.91	0.71
1:A:492:ILE:HB	1:A:590:LEU:HD13	1.71	0.71
1:G:295:THR:OG1	1:G:332:VAL:HG12	1.91	0.71
1:G:365:ARG:NH2	1:G:418:PRO:HG3	2.04	0.71
1:H:458:ASN:HD22	1:H:476:ASN:HB2	1.54	0.71
1:K:295:THR:OG1	1:K:332:VAL:HG12	1.91	0.71
1:O:365:ARG:NH2	1:O:418:PRO:HG3	2.05	0.71
1:B:258:ALA:HA	1:B:371:THR:OG1	1.91	0.71
1:B:584:ASN:H	1:B:587:MET:CE	2.04	0.71
1:C:384:VAL:HG11	1:C:449:ARG:HH21	1.56	0.71
1:F:258:ALA:HA	1:F:371:THR:OG1	1.91	0.71
1:F:295:THR:OG1	1:F:332:VAL:HG12	1.91	0.71
1:G:258:ALA:HA	1:G:371:THR:OG1	1.91	0.71
1:K:584:ASN:H	1:K:587:MET:CE	2.04	0.71
1:M:295:THR:OG1	1:M:332:VAL:HG12	1.91	0.71
1:I:584:ASN:H	1:I:587:MET:CE	2.04	0.71
1:K:492:ILE:HB	1:K:590:LEU:HD13	1.71	0.71
1:B:384:VAL:HG11	1:B:449:ARG:HH21	1.56	0.70
1:H:258:ALA:HA	1:H:371:THR:OG1	1.90	0.70
1:J:295:THR:OG1	1:J:332:VAL:HG12	1.91	0.70
1:J:584:ASN:H	1:J:587:MET:CE	2.04	0.70
1:D:238:LYS:HB3	1:D:252:ARG:O	1.92	0.70
1:E:295:THR:OG1	1:E:332:VAL:HG12	1.91	0.70
1:K:189:VAL:CG1	1:L:199:LYS:CG	2.69	0.70
1:L:384:VAL:HG11	1:L:449:ARG:HH21	1.56	0.70
1:M:584:ASN:H	1:M:587:MET:CE	2.04	0.70
1:O:492:ILE:HB	1:O:590:LEU:HD13	1.71	0.70
1:O:584:ASN:H	1:O:587:MET:CE	2.04	0.70
1:E:253:HIS:HE1	1:E:255:LEU:HG	1.57	0.70
1:E:384:VAL:HG11	1:E:449:ARG:HH21	1.55	0.70
1:D:584:ASN:H	1:D:587:MET:CE	2.04	0.70
1:G:384:VAL:HG11	1:G:449:ARG:HH21	1.56	0.70
1:I:295:THR:OG1	1:I:332:VAL:HG12	1.91	0.70
1:O:238:LYS:HB3	1:O:252:ARG:O	1.92	0.70
1:F:584:ASN:H	1:F:587:MET:CE	2.04	0.70
1:H:384:VAL:HG11	1:H:449:ARG:HH21	1.56	0.70
1:D:295:THR:OG1	1:D:332:VAL:HG12	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:584:ASN:H	1:E:587:MET:CE	2.04	0.70
1:H:295:THR:OG1	1:H:332:VAL:HG12	1.91	0.70
1:L:458:ASN:HD22	1:L:476:ASN:HB2	1.54	0.70
1:O:295:THR:OG1	1:O:332:VAL:HG12	1.91	0.70
1:H:253:HIS:HE1	1:H:255:LEU:HG	1.57	0.70
1:J:253:HIS:HE1	1:J:255:LEU:HG	1.57	0.70
1:K:258:ALA:HA	1:K:371:THR:OG1	1.91	0.70
1:G:245:LYS:HE2	1:M:515:GLU:OE1	1.92	0.70
1:M:238:LYS:HB3	1:M:252:ARG:O	1.92	0.70
1:H:584:ASN:H	1:H:587:MET:CE	2.04	0.70
1:I:258:ALA:HA	1:I:371:THR:OG1	1.91	0.70
1:J:238:LYS:HB3	1:J:252:ARG:O	1.92	0.70
1:K:384:VAL:HG11	1:K:449:ARG:HH21	1.56	0.70
1:L:584:ASN:H	1:L:587:MET:CE	2.04	0.70
1:O:253:HIS:HE1	1:O:255:LEU:HG	1.57	0.70
1:A:384:VAL:HG11	1:A:449:ARG:HH21	1.56	0.70
1:A:512:ASP:OD1	1:B:245:LYS:HE3	1.92	0.70
1:H:479:GLU:OE1	1:I:470:ARG:HG3	1.91	0.70
1:B:238:LYS:HB3	1:B:252:ARG:O	1.92	0.69
1:I:384:VAL:HG11	1:I:449:ARG:HH21	1.56	0.69
1:L:238:LYS:HB3	1:L:252:ARG:O	1.92	0.69
1:L:258:ALA:HA	1:L:371:THR:OG1	1.91	0.69
1:O:384:VAL:HG11	1:O:449:ARG:HH21	1.56	0.69
1:B:253:HIS:HE1	1:B:255:LEU:HG	1.57	0.69
1:D:483:GLN:HE22	1:E:245:LYS:H	1.39	0.69
1:E:517:THR:HG23	1:F:199:LYS:O	1.91	0.69
1:I:253:HIS:HE1	1:I:255:LEU:HG	1.57	0.69
1:L:253:HIS:HE1	1:L:255:LEU:HG	1.57	0.69
1:L:295:THR:OG1	1:L:332:VAL:HG12	1.91	0.69
1:M:269:ILE:HD11	1:M:334:ILE:HD13	1.75	0.69
1:A:253:HIS:HE1	1:A:255:LEU:HG	1.57	0.69
1:C:238:LYS:HB3	1:C:252:ARG:O	1.92	0.69
1:D:305:GLY:HA2	1:E:670:GLN:HG3	1.74	0.69
1:F:253:HIS:HE1	1:F:255:LEU:HG	1.57	0.69
1:H:319:SER:HA	1:I:414:LYS:CG	2.21	0.69
1:A:226:TRP:CB	1:B:466:ASN:O	2.40	0.69
1:A:269:ILE:HD11	1:A:334:ILE:HD13	1.75	0.69
1:B:269:ILE:HD11	1:B:334:ILE:HD13	1.75	0.69
1:B:295:THR:OG1	1:B:332:VAL:HG12	1.91	0.69
1:C:253:HIS:HE1	1:C:255:LEU:HG	1.57	0.69
1:D:269:ILE:HD11	1:D:334:ILE:HD13	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:584:ASN:H	1:G:587:MET:CE	2.04	0.69
1:A:584:ASN:H	1:A:587:MET:CE	2.04	0.69
1:C:269:ILE:HD11	1:C:334:ILE:HD13	1.75	0.69
1:G:253:HIS:HE1	1:G:255:LEU:HG	1.57	0.69
1:K:269:ILE:HD11	1:K:334:ILE:HD13	1.75	0.69
1:C:584:ASN:H	1:C:587:MET:CE	2.04	0.69
1:G:238:LYS:HB3	1:G:252:ARG:O	1.92	0.69
1:I:189:VAL:HG13	1:J:199:LYS:CG	2.22	0.69
1:K:238:LYS:HB3	1:K:252:ARG:O	1.92	0.69
1:C:295:THR:OG1	1:C:332:VAL:HG12	1.91	0.69
1:C:423:ALA:O	1:C:424:GLN:CB	2.41	0.69
1:G:305:GLY:O	1:H:671:ASP:OD2	2.10	0.69
1:M:253:HIS:HE1	1:M:255:LEU:HG	1.57	0.69
1:C:411:TYR:HB3	1:C:412:PRO:CD	2.23	0.69
1:E:269:ILE:HD11	1:E:334:ILE:HD13	1.75	0.69
1:F:238:LYS:HB3	1:F:252:ARG:O	1.92	0.69
1:G:189:VAL:HG13	1:H:199:LYS:HB2	1.74	0.69
1:G:189:VAL:HG13	1:H:199:LYS:CB	2.21	0.69
1:H:269:ILE:HD11	1:H:334:ILE:HD13	1.75	0.69
1:H:411:TYR:HB3	1:H:412:PRO:CD	2.23	0.69
1:I:238:LYS:HB3	1:I:252:ARG:O	1.92	0.69
1:I:411:TYR:HB3	1:I:412:PRO:CD	2.23	0.69
1:I:423:ALA:O	1:I:424:GLN:CB	2.41	0.69
1:J:423:ALA:O	1:J:424:GLN:CB	2.41	0.69
1:L:269:ILE:HD11	1:L:334:ILE:HD13	1.75	0.69
1:M:423:ALA:O	1:M:424:GLN:CB	2.41	0.69
1:J:319:SER:HA	1:K:414:LYS:HG3	1.73	0.69
1:J:384:VAL:HG11	1:J:449:ARG:HH21	1.56	0.69
1:K:411:TYR:HB3	1:K:412:PRO:CD	2.23	0.69
1:K:423:ALA:O	1:K:424:GLN:CB	2.41	0.69
1:O:423:ALA:O	1:O:424:GLN:CB	2.41	0.69
1:E:319:SER:N	1:F:414:LYS:HG3	2.08	0.69
1:G:411:TYR:HB3	1:G:412:PRO:CD	2.23	0.68
1:H:238:LYS:HB3	1:H:252:ARG:O	1.92	0.68
1:A:238:LYS:HB3	1:A:252:ARG:O	1.92	0.68
1:E:238:LYS:HB3	1:E:252:ARG:O	1.92	0.68
1:E:226:TRP:CB	1:F:466:ASN:O	2.41	0.68
1:O:411:TYR:HB3	1:O:412:PRO:CD	2.23	0.68
1:B:411:TYR:HB3	1:B:412:PRO:CD	2.23	0.68
1:D:253:HIS:HE1	1:D:255:LEU:HG	1.57	0.68
1:D:423:ALA:O	1:D:424:GLN:CB	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:311:ALA:HA	1:J:668:LEU:HD23	1.75	0.68
1:K:253:HIS:HE1	1:K:255:LEU:HG	1.57	0.68
1:M:411:TYR:HB3	1:M:412:PRO:CD	2.23	0.68
1:A:189:VAL:HG13	1:B:199:LYS:HB2	1.74	0.68
1:A:411:TYR:HB3	1:A:412:PRO:CD	2.23	0.68
1:G:414:LYS:HG3	1:M:319:SER:N	2.07	0.68
1:A:423:ALA:O	1:A:424:GLN:CB	2.41	0.68
1:H:423:ALA:O	1:H:424:GLN:CB	2.41	0.68
1:G:423:ALA:O	1:G:424:GLN:CB	2.41	0.68
1:L:411:TYR:HB3	1:L:412:PRO:CD	2.23	0.68
1:B:423:ALA:O	1:B:424:GLN:CB	2.41	0.68
1:F:411:TYR:HB3	1:F:412:PRO:CD	2.23	0.68
1:C:368:ASN:HB2	1:C:405:LEU:HG	1.76	0.68
1:F:423:ALA:O	1:F:424:GLN:CB	2.41	0.68
1:I:189:VAL:HG13	1:J:199:LYS:HB2	1.76	0.68
1:I:269:ILE:HD11	1:I:334:ILE:HD13	1.75	0.68
1:H:368:ASN:HB2	1:H:405:LEU:HG	1.76	0.68
1:J:411:TYR:HB3	1:J:412:PRO:CD	2.23	0.68
1:C:533:PHE:HB3	1:C:540:LEU:HD11	1.77	0.67
1:G:533:PHE:HB3	1:G:540:LEU:HD11	1.77	0.67
1:M:299:HIS:HB2	1:M:500:LEU:HD13	1.77	0.67
1:O:269:ILE:HD11	1:O:334:ILE:HD13	1.75	0.67
1:E:368:ASN:HB2	1:E:405:LEU:HG	1.76	0.67
1:F:368:ASN:HB2	1:F:405:LEU:HG	1.76	0.67
1:G:368:ASN:HB2	1:G:405:LEU:HG	1.76	0.67
1:L:318:GLY:HA2	1:M:410:TYR:HE1	1.58	0.67
1:A:368:ASN:HB2	1:A:405:LEU:HG	1.76	0.67
1:F:269:ILE:HD11	1:F:334:ILE:HD13	1.75	0.67
1:G:299:HIS:HB2	1:G:500:LEU:HD13	1.77	0.67
1:I:533:PHE:HB3	1:I:540:LEU:HD11	1.77	0.67
1:J:269:ILE:HD11	1:J:334:ILE:HD13	1.75	0.67
1:M:533:PHE:HB3	1:M:540:LEU:HD11	1.77	0.67
1:D:411:TYR:HB3	1:D:412:PRO:CD	2.23	0.67
1:E:299:HIS:HB2	1:E:500:LEU:HD13	1.77	0.67
1:H:299:HIS:HB2	1:H:500:LEU:HD13	1.77	0.67
1:I:411:TYR:HB3	1:I:412:PRO:HD3	1.77	0.67
1:B:305:GLY:HA2	1:C:670:GLN:HG3	1.75	0.67
1:D:368:ASN:HB2	1:D:405:LEU:HG	1.76	0.67
1:J:479:GLU:OE1	1:K:470:ARG:HG3	1.94	0.67
1:L:423:ALA:O	1:L:424:GLN:CB	2.41	0.67
1:M:411:TYR:HB3	1:M:412:PRO:HD3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:368:ASN:HB2	1:O:405:LEU:HG	1.76	0.67
1:D:299:HIS:HB2	1:D:500:LEU:HD13	1.77	0.67
1:E:533:PHE:HB3	1:E:540:LEU:HD11	1.77	0.67
1:F:411:TYR:HB3	1:F:412:PRO:HD3	1.77	0.67
1:G:269:ILE:HD11	1:G:334:ILE:HD13	1.75	0.67
1:H:411:TYR:HB3	1:H:412:PRO:HD3	1.77	0.67
1:K:533:PHE:HB3	1:K:540:LEU:HD11	1.77	0.67
1:L:368:ASN:HB2	1:L:405:LEU:HG	1.76	0.67
1:A:411:TYR:HB3	1:A:412:PRO:HD3	1.77	0.67
1:E:411:TYR:HB3	1:E:412:PRO:CD	2.23	0.67
1:D:318:GLY:HA2	1:E:410:TYR:HE1	1.58	0.67
1:F:232:PRO:HA	1:O:468:ARG:HH12	1.59	0.67
1:M:368:ASN:HB2	1:M:405:LEU:HG	1.76	0.67
1:B:318:GLY:HA2	1:C:410:TYR:CE1	2.28	0.67
1:I:483:GLN:HE22	1:J:245:LYS:N	1.88	0.67
1:A:533:PHE:HB3	1:A:540:LEU:HD11	1.77	0.67
1:B:299:HIS:HB2	1:B:500:LEU:HD13	1.77	0.67
1:H:512:ASP:OD1	1:I:245:LYS:HE3	1.95	0.67
1:K:306:ASN:HA	1:L:669:ARG:CG	2.25	0.67
1:I:368:ASN:HB2	1:I:405:LEU:HG	1.76	0.66
1:K:368:ASN:HB2	1:K:405:LEU:HG	1.76	0.66
1:L:411:TYR:HB3	1:L:412:PRO:HD3	1.77	0.66
1:B:368:ASN:HB2	1:B:405:LEU:HG	1.76	0.66
1:C:299:HIS:HB2	1:C:500:LEU:HD13	1.77	0.66
1:L:224:GLU:OE2	1:M:201:THR:HG23	1.95	0.66
1:L:299:HIS:HB2	1:L:500:LEU:HD13	1.77	0.66
1:E:512:ASP:OD1	1:F:245:LYS:HE3	1.94	0.66
1:G:189:VAL:CG1	1:H:199:LYS:CG	2.74	0.66
1:H:318:GLY:HA3	1:I:410:TYR:CE1	2.31	0.66
1:H:533:PHE:HB3	1:H:540:LEU:HD11	1.76	0.66
1:F:299:HIS:HB2	1:F:500:LEU:HD13	1.77	0.66
1:K:188:GLU:HG3	1:K:221:SER:OG	1.96	0.66
1:K:299:HIS:HB2	1:K:500:LEU:HD13	1.77	0.66
1:L:533:PHE:HB3	1:L:540:LEU:HD11	1.77	0.66
1:O:533:PHE:HB3	1:O:540:LEU:HD11	1.77	0.66
1:J:189:VAL:HG13	1:K:199:LYS:HG3	1.78	0.66
1:J:368:ASN:HB2	1:J:405:LEU:HG	1.76	0.66
1:J:533:PHE:HB3	1:J:540:LEU:HD11	1.77	0.66
1:M:269:ILE:HG22	1:M:362:ALA:HB2	1.78	0.66
1:B:533:PHE:HB3	1:B:540:LEU:HD11	1.77	0.66
1:I:269:ILE:HG22	1:I:362:ALA:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:299:HIS:HB2	1:J:500:LEU:HD13	1.77	0.66
1:O:188:GLU:HG3	1:O:221:SER:OG	1.96	0.66
1:A:368:ASN:ND2	1:A:407:PRO:HA	2.11	0.66
1:C:368:ASN:ND2	1:C:407:PRO:HA	2.11	0.66
1:E:269:ILE:HG22	1:E:362:ALA:HB2	1.78	0.66
1:A:483:GLN:HE22	1:B:245:LYS:H	1.41	0.66
1:D:188:GLU:HG3	1:D:221:SER:OG	1.96	0.66
1:J:411:TYR:HB3	1:J:412:PRO:HD3	1.77	0.66
1:A:517:THR:HG23	1:B:199:LYS:O	1.95	0.66
1:B:368:ASN:ND2	1:B:407:PRO:HA	2.11	0.66
1:D:269:ILE:HG22	1:D:362:ALA:HB2	1.78	0.66
1:D:533:PHE:HB3	1:D:540:LEU:HD11	1.77	0.66
1:E:423:ALA:O	1:E:424:GLN:CB	2.41	0.66
1:G:411:TYR:HB3	1:G:412:PRO:HD3	1.77	0.66
1:I:299:HIS:HB2	1:I:500:LEU:HD13	1.77	0.66
1:O:642:TYR:CB	1:O:665:ILE:HD11	2.24	0.66
1:F:269:ILE:HG22	1:F:362:ALA:HB2	1.78	0.65
1:G:188:GLU:HG3	1:G:221:SER:OG	1.96	0.65
1:I:188:GLU:HG3	1:I:221:SER:OG	1.96	0.65
1:L:269:ILE:HG22	1:L:362:ALA:HB2	1.78	0.65
1:E:411:TYR:HB3	1:E:412:PRO:HD3	1.77	0.65
1:O:269:ILE:HG22	1:O:362:ALA:HB2	1.78	0.65
1:O:299:HIS:HB2	1:O:500:LEU:HD13	1.77	0.65
1:A:299:HIS:HB2	1:A:500:LEU:HD13	1.77	0.65
1:D:411:TYR:HB3	1:D:412:PRO:HD3	1.77	0.65
1:H:200:ARG:HG2	1:H:200:ARG:HH11	1.62	0.65
1:H:226:TRP:HB2	1:I:466:ASN:O	1.97	0.65
1:H:319:SER:HA	1:I:414:LYS:HG3	1.77	0.65
1:K:305:GLY:O	1:L:671:ASP:OD2	2.14	0.65
1:O:368:ASN:ND2	1:O:407:PRO:HA	2.11	0.65
1:B:188:GLU:HG3	1:B:221:SER:OG	1.96	0.65
1:B:411:TYR:HB3	1:B:412:PRO:HD3	1.77	0.65
1:C:269:ILE:HG22	1:C:362:ALA:HB2	1.78	0.65
1:E:558:THR:O	1:E:562:ILE:HG13	1.97	0.65
1:F:533:PHE:HB3	1:F:540:LEU:HD11	1.77	0.65
1:J:200:ARG:HG2	1:J:200:ARG:HH11	1.61	0.65
1:E:368:ASN:ND2	1:E:407:PRO:HA	2.11	0.65
1:H:558:THR:O	1:H:562:ILE:HG13	1.97	0.65
1:I:368:ASN:ND2	1:I:407:PRO:HA	2.11	0.65
1:K:558:THR:O	1:K:562:ILE:HG13	1.97	0.65
1:A:188:GLU:HG3	1:A:221:SER:OG	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:368:ASN:ND2	1:F:407:PRO:HA	2.11	0.65
1:H:642:TYR:CB	1:H:665:ILE:HD11	2.24	0.65
1:I:558:THR:O	1:I:562:ILE:HG13	1.97	0.65
1:K:368:ASN:ND2	1:K:407:PRO:HA	2.11	0.65
1:L:188:GLU:HG3	1:L:221:SER:OG	1.96	0.65
1:E:188:GLU:HG3	1:E:221:SER:OG	1.96	0.65
1:F:188:GLU:HG3	1:F:221:SER:OG	1.96	0.65
1:H:269:ILE:HG22	1:H:362:ALA:HB2	1.78	0.65
1:K:411:TYR:HB3	1:K:412:PRO:HD3	1.77	0.65
1:M:558:THR:O	1:M:562:ILE:HG13	1.97	0.65
1:C:411:TYR:HB3	1:C:412:PRO:HD3	1.77	0.65
1:L:189:VAL:CG1	1:M:199:LYS:CG	2.75	0.65
1:L:368:ASN:ND2	1:L:407:PRO:HA	2.11	0.65
1:O:381:THR:HB	1:O:452:THR:HG23	1.79	0.65
1:O:558:THR:O	1:O:562:ILE:HG13	1.97	0.65
1:B:483:GLN:HE22	1:C:245:LYS:H	1.45	0.65
1:C:188:GLU:HG3	1:C:221:SER:OG	1.96	0.65
1:D:259:TYR:H	1:D:259:TYR:HD2	1.45	0.65
1:E:483:GLN:HE22	1:F:245:LYS:H	1.44	0.65
1:J:558:THR:O	1:J:562:ILE:HG13	1.97	0.65
1:M:368:ASN:ND2	1:M:407:PRO:HA	2.11	0.65
1:A:410:TYR:HE1	1:O:318:GLY:CA	2.10	0.65
1:E:381:THR:HB	1:E:452:THR:HG23	1.79	0.65
1:H:189:VAL:HG13	1:I:199:LYS:CG	2.26	0.65
1:H:381:THR:HB	1:H:452:THR:HG23	1.79	0.65
1:L:249:PRO:O	1:L:252:ARG:HB2	1.98	0.65
1:L:558:THR:O	1:L:562:ILE:HG13	1.97	0.65
1:M:642:TYR:CB	1:M:665:ILE:HD11	2.24	0.65
1:A:249:PRO:O	1:A:252:ARG:HB2	1.97	0.64
1:F:200:ARG:HG2	1:F:200:ARG:HH11	1.61	0.64
1:G:200:ARG:HG2	1:G:200:ARG:HH11	1.61	0.64
1:G:368:ASN:ND2	1:G:407:PRO:HA	2.11	0.64
1:J:368:ASN:ND2	1:J:407:PRO:HA	2.11	0.64
1:O:411:TYR:HB3	1:O:412:PRO:HD3	1.77	0.64
1:D:368:ASN:ND2	1:D:407:PRO:HA	2.11	0.64
1:E:260:PRO:HD3	1:E:477:TRP:CZ3	2.33	0.64
1:K:259:TYR:H	1:K:259:TYR:HD2	1.45	0.64
1:M:200:ARG:HG2	1:M:200:ARG:HH11	1.62	0.64
1:A:269:ILE:HG22	1:A:362:ALA:HB2	1.78	0.64
1:A:558:THR:O	1:A:562:ILE:HG13	1.97	0.64
1:F:249:PRO:O	1:F:252:ARG:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:269:ILE:HG22	1:G:362:ALA:HB2	1.78	0.64
1:G:558:THR:O	1:G:562:ILE:HG13	1.97	0.64
1:J:188:GLU:HG3	1:J:221:SER:OG	1.96	0.64
1:K:381:THR:HB	1:K:452:THR:HG23	1.79	0.64
1:L:260:PRO:HD3	1:L:477:TRP:CZ3	2.33	0.64
1:L:381:THR:HB	1:L:452:THR:HG23	1.79	0.64
1:O:200:ARG:HG2	1:O:200:ARG:HH11	1.62	0.64
1:O:260:PRO:HD3	1:O:477:TRP:CZ3	2.33	0.64
1:A:200:ARG:HG2	1:A:200:ARG:HH11	1.61	0.64
1:B:200:ARG:HG2	1:B:200:ARG:HH11	1.61	0.64
1:C:226:TRP:CB	1:D:466:ASN:O	2.46	0.64
1:C:259:TYR:H	1:C:259:TYR:HD2	1.45	0.64
1:D:249:PRO:O	1:D:252:ARG:HB2	1.97	0.64
1:H:259:TYR:H	1:H:259:TYR:HD2	1.45	0.64
1:I:249:PRO:O	1:I:252:ARG:HB2	1.98	0.64
1:I:260:PRO:HD3	1:I:477:TRP:CZ3	2.33	0.64
1:M:188:GLU:HG3	1:M:221:SER:OG	1.96	0.64
1:O:259:TYR:H	1:O:259:TYR:HD2	1.45	0.64
1:C:249:PRO:O	1:C:252:ARG:HB2	1.97	0.64
1:F:558:THR:O	1:F:562:ILE:HG13	1.97	0.64
1:G:249:PRO:O	1:G:252:ARG:HB2	1.97	0.64
1:G:260:PRO:HD3	1:G:477:TRP:CZ3	2.33	0.64
1:H:188:GLU:HG3	1:H:221:SER:OG	1.96	0.64
1:I:259:TYR:H	1:I:259:TYR:HD2	1.45	0.64
1:J:269:ILE:HG22	1:J:362:ALA:HB2	1.78	0.64
1:K:200:ARG:HG2	1:K:200:ARG:HH11	1.62	0.64
1:L:318:GLY:CA	1:M:410:TYR:HE1	2.10	0.64
1:A:381:THR:HB	1:A:452:THR:HG23	1.79	0.64
1:B:249:PRO:O	1:B:252:ARG:HB2	1.97	0.64
1:B:269:ILE:HG22	1:B:362:ALA:HB2	1.78	0.64
1:D:558:THR:O	1:D:562:ILE:HG13	1.97	0.64
1:E:200:ARG:HG2	1:E:200:ARG:HH11	1.61	0.64
1:F:259:TYR:H	1:F:259:TYR:HD2	1.45	0.64
1:H:249:PRO:O	1:H:252:ARG:HB2	1.97	0.64
1:I:200:ARG:HH11	1:I:200:ARG:HG2	1.62	0.64
1:M:260:PRO:HD3	1:M:477:TRP:CZ3	2.33	0.64
1:A:260:PRO:HD3	1:A:477:TRP:CZ3	2.33	0.64
1:D:207:ILE:HG21	1:D:210:ILE:HG12	1.80	0.64
1:D:381:THR:HB	1:D:452:THR:HG23	1.79	0.64
1:E:207:ILE:HG21	1:E:210:ILE:HG12	1.80	0.64
1:F:318:GLY:HA2	1:O:410:TYR:CE1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:381:THR:HB	1:F:452:THR:HG23	1.79	0.64
1:G:189:VAL:CG1	1:H:199:LYS:HB2	2.28	0.64
1:I:642:TYR:CB	1:I:665:ILE:HD11	2.24	0.64
1:J:249:PRO:O	1:J:252:ARG:HB2	1.97	0.64
1:K:249:PRO:O	1:K:252:ARG:HB2	1.97	0.64
1:M:249:PRO:O	1:M:252:ARG:HB2	1.97	0.64
1:O:207:ILE:HG21	1:O:210:ILE:HG12	1.80	0.64
1:A:670:GLN:HG3	1:O:305:GLY:HA2	1.79	0.64
1:E:249:PRO:O	1:E:252:ARG:HB2	1.98	0.64
1:F:513:PRO:HG2	1:O:239:VAL:O	1.98	0.64
1:H:260:PRO:HD3	1:H:477:TRP:CZ3	2.33	0.64
1:H:368:ASN:ND2	1:H:407:PRO:HA	2.11	0.64
1:B:231:ASP:HB2	1:B:232:PRO:HD2	1.80	0.64
1:B:260:PRO:HD3	1:B:477:TRP:CZ3	2.33	0.64
1:B:558:THR:O	1:B:562:ILE:HG13	1.97	0.64
1:C:231:ASP:HB2	1:C:232:PRO:HD2	1.80	0.64
1:F:260:PRO:HD3	1:F:477:TRP:CZ3	2.33	0.64
1:G:231:ASP:HB2	1:G:232:PRO:HD2	1.80	0.64
1:H:178:ARG:NH1	1:I:200:ARG:HB3	2.13	0.64
1:L:200:ARG:HG2	1:L:200:ARG:HH11	1.61	0.64
1:B:207:ILE:HG21	1:B:210:ILE:HG12	1.80	0.64
1:E:231:ASP:HB2	1:E:232:PRO:HD2	1.80	0.64
1:J:324:PHE:CE1	1:J:588:ASN:HB3	2.33	0.64
1:K:269:ILE:HG22	1:K:362:ALA:HB2	1.78	0.64
1:M:381:THR:HB	1:M:452:THR:HG23	1.80	0.64
1:O:249:PRO:O	1:O:252:ARG:HB2	1.98	0.64
1:A:259:TYR:H	1:A:259:TYR:HD2	1.45	0.63
1:B:642:TYR:CB	1:B:665:ILE:HD11	2.24	0.63
1:C:200:ARG:HG2	1:C:200:ARG:HH11	1.61	0.63
1:C:232:PRO:HA	1:D:468:ARG:HH12	1.63	0.63
1:E:324:PHE:CE1	1:E:588:ASN:HB3	2.33	0.63
1:L:454:GLN:HA	1:L:456:TYR:CE2	2.34	0.63
1:D:200:ARG:HG2	1:D:200:ARG:HH11	1.61	0.63
1:D:260:PRO:HD3	1:D:477:TRP:CZ3	2.33	0.63
1:F:231:ASP:HB2	1:F:232:PRO:HD2	1.80	0.63
1:I:324:PHE:CE1	1:I:588:ASN:HB3	2.33	0.63
1:J:231:ASP:HB2	1:J:232:PRO:HD2	1.80	0.63
1:J:260:PRO:HD3	1:J:477:TRP:CZ3	2.33	0.63
1:K:260:PRO:HD3	1:K:477:TRP:CZ3	2.33	0.63
1:K:642:TYR:CB	1:K:665:ILE:HD11	2.24	0.63
1:L:231:ASP:HB2	1:L:232:PRO:HD2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:207:ILE:HG21	1:M:210:ILE:HG12	1.80	0.63
1:M:231:ASP:HB2	1:M:232:PRO:HD2	1.80	0.63
1:O:324:PHE:CE1	1:O:588:ASN:HB3	2.33	0.63
1:A:454:GLN:HA	1:A:456:TYR:CE2	2.34	0.63
1:E:259:TYR:H	1:E:259:TYR:HD2	1.45	0.63
1:H:454:GLN:HA	1:H:456:TYR:CE2	2.33	0.63
1:K:454:GLN:HA	1:K:456:TYR:CE2	2.34	0.63
1:B:381:THR:HB	1:B:452:THR:HG23	1.80	0.63
1:C:454:GLN:HA	1:C:456:TYR:CE2	2.34	0.63
1:H:319:SER:HA	1:I:414:LYS:HB3	1.79	0.63
1:J:454:GLN:HA	1:J:456:TYR:CE2	2.33	0.63
1:C:260:PRO:HD3	1:C:477:TRP:CZ3	2.33	0.63
1:O:454:GLN:HA	1:O:456:TYR:CE2	2.34	0.63
1:A:414:LYS:HG3	1:O:319:SER:H	1.63	0.63
1:D:231:ASP:HB2	1:D:232:PRO:HD2	1.80	0.63
1:F:207:ILE:HG21	1:F:210:ILE:HG12	1.80	0.63
1:G:189:VAL:HG13	1:H:199:LYS:HG3	1.80	0.63
1:A:513:PRO:HG2	1:B:239:VAL:O	1.98	0.63
1:C:324:PHE:CE1	1:C:588:ASN:HB3	2.33	0.63
1:C:558:THR:O	1:C:562:ILE:HG13	1.97	0.63
1:G:199:LYS:O	1:M:517:THR:HG23	1.99	0.63
1:G:207:ILE:HG21	1:G:210:ILE:HG12	1.80	0.63
1:G:259:TYR:H	1:G:259:TYR:HD2	1.45	0.63
1:H:324:PHE:CE1	1:H:588:ASN:HB3	2.33	0.63
1:E:454:GLN:HA	1:E:456:TYR:CE2	2.34	0.63
1:G:381:THR:HB	1:G:452:THR:HG23	1.79	0.63
1:I:381:THR:HB	1:I:452:THR:HG23	1.80	0.63
1:I:454:GLN:HA	1:I:456:TYR:CE2	2.34	0.63
1:J:232:PRO:HA	1:K:468:ARG:HH12	1.63	0.63
1:O:231:ASP:HB2	1:O:232:PRO:HD2	1.80	0.63
1:C:381:THR:HB	1:C:452:THR:HG23	1.79	0.63
1:K:207:ILE:HG21	1:K:210:ILE:HG12	1.80	0.63
1:A:207:ILE:HG21	1:A:210:ILE:HG12	1.80	0.62
1:B:259:TYR:H	1:B:259:TYR:HD2	1.45	0.62
1:C:207:ILE:HG21	1:C:210:ILE:HG12	1.80	0.62
1:D:454:GLN:HA	1:D:456:TYR:CE2	2.34	0.62
1:A:231:ASP:HB2	1:A:232:PRO:HD2	1.80	0.62
1:B:454:GLN:HA	1:B:456:TYR:CE2	2.34	0.62
1:H:196:VAL:CG1	1:H:201:THR:HG22	2.29	0.62
1:H:207:ILE:HG21	1:H:210:ILE:HG12	1.80	0.62
1:L:259:TYR:HD2	1:L:259:TYR:H	1.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:324:PHE:CE1	1:A:588:ASN:HB3	2.33	0.62
1:G:196:VAL:CG1	1:G:201:THR:HG22	2.29	0.62
1:G:454:GLN:HA	1:G:456:TYR:CE2	2.34	0.62
1:A:424:GLN:O	1:A:425:ASP:HB2	2.00	0.62
1:J:207:ILE:HG21	1:J:210:ILE:HG12	1.80	0.62
1:L:189:VAL:CG1	1:M:199:LYS:HG2	2.29	0.62
1:E:424:GLN:O	1:E:425:ASP:HB2	2.00	0.62
1:H:231:ASP:HB2	1:H:232:PRO:HD2	1.80	0.62
1:K:231:ASP:HB2	1:K:232:PRO:HD2	1.80	0.62
1:L:207:ILE:HG21	1:L:210:ILE:HG12	1.80	0.62
1:A:642:TYR:CB	1:A:665:ILE:HD11	2.24	0.62
1:H:483:GLN:HE22	1:I:245:LYS:H	1.47	0.62
1:I:231:ASP:HB2	1:I:232:PRO:HD2	1.80	0.62
1:J:424:GLN:O	1:J:425:ASP:HB2	2.00	0.62
1:A:232:PRO:HD3	1:A:480:VAL:HG11	1.82	0.62
1:B:324:PHE:CE1	1:B:588:ASN:HB3	2.33	0.62
1:C:289:ILE:HG13	1:C:289:ILE:O	2.00	0.62
1:F:454:GLN:HA	1:F:456:TYR:CE2	2.34	0.62
1:K:224:GLU:OE2	1:L:201:THR:HG23	1.99	0.62
1:K:324:PHE:CE1	1:K:588:ASN:HB3	2.33	0.62
1:M:424:GLN:O	1:M:425:ASP:HB2	2.00	0.62
1:H:424:GLN:O	1:H:425:ASP:HB2	2.00	0.62
1:I:232:PRO:HD3	1:I:480:VAL:HG11	1.82	0.62
1:J:381:THR:HB	1:J:452:THR:HG23	1.79	0.62
1:K:189:VAL:CG1	1:L:199:LYS:HG2	2.30	0.62
1:G:424:GLN:O	1:G:425:ASP:HB2	2.00	0.62
1:L:189:VAL:HG13	1:M:199:LYS:HG3	1.79	0.62
1:M:259:TYR:H	1:M:259:TYR:HD2	1.45	0.62
1:C:642:TYR:CB	1:C:665:ILE:HD11	2.24	0.62
1:D:232:PRO:HD3	1:D:480:VAL:HG11	1.82	0.62
1:H:289:ILE:HG13	1:H:289:ILE:O	2.00	0.62
1:I:207:ILE:HG21	1:I:210:ILE:HG12	1.80	0.62
1:I:289:ILE:O	1:I:289:ILE:HG13	2.00	0.62
1:J:232:PRO:HD3	1:J:480:VAL:HG11	1.82	0.62
1:B:232:PRO:HD3	1:B:480:VAL:HG11	1.82	0.61
1:B:289:ILE:HG13	1:B:289:ILE:O	2.00	0.61
1:G:642:TYR:CB	1:G:665:ILE:HD11	2.24	0.61
1:M:232:PRO:HD3	1:M:480:VAL:HG11	1.82	0.61
1:M:454:GLN:HA	1:M:456:TYR:CE2	2.34	0.61
1:O:289:ILE:O	1:O:289:ILE:HG13	2.00	0.61
1:K:196:VAL:CG1	1:K:201:THR:HG22	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:196:VAL:CG1	1:M:201:THR:HG22	2.29	0.61
1:O:196:VAL:CG1	1:O:201:THR:HG22	2.29	0.61
1:O:200:ARG:H	1:O:200:ARG:HD2	1.66	0.61
1:D:424:GLN:O	1:D:425:ASP:HB2	2.00	0.61
1:F:189:VAL:HG13	1:O:199:LYS:HB2	1.82	0.61
1:I:196:VAL:CG1	1:I:201:THR:HG22	2.29	0.61
1:I:555:ASP:OD2	1:I:588:ASN:HB2	2.00	0.61
1:J:259:TYR:H	1:J:259:TYR:HD2	1.45	0.61
1:A:232:PRO:HA	1:B:468:ARG:HH12	1.64	0.61
1:F:289:ILE:O	1:F:289:ILE:HG13	2.00	0.61
1:L:189:VAL:HG13	1:M:199:LYS:CB	2.30	0.61
1:L:424:GLN:O	1:L:425:ASP:HB2	2.00	0.61
1:B:424:GLN:O	1:B:425:ASP:HB2	2.00	0.61
1:C:232:PRO:HD3	1:C:480:VAL:HG11	1.82	0.61
1:D:200:ARG:H	1:D:200:ARG:HD2	1.66	0.61
1:D:555:ASP:OD2	1:D:588:ASN:HB2	2.00	0.61
1:E:200:ARG:H	1:E:200:ARG:HD2	1.66	0.61
1:G:289:ILE:O	1:G:289:ILE:HG13	2.00	0.61
1:E:196:VAL:CG1	1:E:201:THR:HG22	2.29	0.61
1:G:200:ARG:H	1:G:200:ARG:HD2	1.66	0.61
1:H:200:ARG:H	1:H:200:ARG:HD2	1.65	0.61
1:I:424:GLN:O	1:I:425:ASP:HB2	2.00	0.61
1:J:555:ASP:OD2	1:J:588:ASN:HB2	2.00	0.61
1:A:289:ILE:O	1:A:289:ILE:HG13	2.00	0.61
1:B:555:ASP:OD2	1:B:588:ASN:HB2	2.00	0.61
1:D:324:PHE:CE1	1:D:588:ASN:HB3	2.33	0.61
1:F:424:GLN:O	1:F:425:ASP:HB2	2.00	0.61
1:J:289:ILE:HG13	1:J:289:ILE:O	2.00	0.61
1:J:319:SER:HA	1:K:414:LYS:CG	2.30	0.61
1:J:642:TYR:CB	1:J:665:ILE:HD11	2.24	0.61
1:L:289:ILE:O	1:L:289:ILE:HG13	2.00	0.61
1:A:642:TYR:HB2	1:A:665:ILE:CD1	2.27	0.61
1:C:424:GLN:O	1:C:425:ASP:HB2	2.00	0.61
1:E:555:ASP:OD2	1:E:588:ASN:HB2	2.00	0.61
1:G:189:VAL:CG1	1:H:199:LYS:HG2	2.30	0.61
1:J:196:VAL:CG1	1:J:201:THR:HG22	2.30	0.61
1:M:555:ASP:OD2	1:M:588:ASN:HB2	2.00	0.61
1:O:424:GLN:O	1:O:425:ASP:HB2	2.00	0.61
1:K:289:ILE:HG13	1:K:289:ILE:O	2.00	0.61
1:L:196:VAL:CG1	1:L:201:THR:HG22	2.29	0.61
1:L:232:PRO:HA	1:M:468:ARG:HH12	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:200:ARG:H	1:M:200:ARG:HD2	1.66	0.61
1:K:200:ARG:H	1:K:200:ARG:HD2	1.66	0.61
1:K:424:GLN:O	1:K:425:ASP:HB2	2.00	0.61
1:L:555:ASP:OD2	1:L:588:ASN:HB2	2.00	0.61
1:L:642:TYR:CB	1:L:665:ILE:HD11	2.24	0.61
1:C:548:THR:HA	1:C:575:TYR:CE1	2.36	0.60
1:L:324:PHE:CE1	1:L:588:ASN:HB3	2.33	0.60
1:O:555:ASP:OD2	1:O:588:ASN:HB2	2.00	0.60
1:A:548:THR:HA	1:A:575:TYR:CE1	2.37	0.60
1:A:555:ASP:OD2	1:A:588:ASN:HB2	2.00	0.60
1:D:196:VAL:CG1	1:D:201:THR:HG22	2.29	0.60
1:E:289:ILE:HG13	1:E:289:ILE:O	2.00	0.60
1:F:232:PRO:HD3	1:F:480:VAL:HG11	1.82	0.60
1:F:324:PHE:CE1	1:F:588:ASN:HB3	2.33	0.60
1:F:555:ASP:OD2	1:F:588:ASN:HB2	2.00	0.60
1:M:289:ILE:HG13	1:M:289:ILE:O	2.00	0.60
1:A:200:ARG:H	1:A:200:ARG:HD2	1.66	0.60
1:B:196:VAL:CG1	1:B:201:THR:HG22	2.30	0.60
1:E:232:PRO:HD3	1:E:480:VAL:HG11	1.82	0.60
1:G:306:ASN:HA	1:H:669:ARG:CG	2.31	0.60
1:I:226:TRP:HB2	1:J:466:ASN:O	2.01	0.60
1:J:200:ARG:H	1:J:200:ARG:HD2	1.66	0.60
1:K:548:THR:HA	1:K:575:TYR:CE1	2.37	0.60
1:B:318:GLY:CA	1:C:410:TYR:HE1	2.12	0.60
1:D:548:THR:HA	1:D:575:TYR:CE1	2.36	0.60
1:F:200:ARG:H	1:F:200:ARG:HD2	1.65	0.60
1:F:318:GLY:CA	1:O:410:TYR:HE1	2.14	0.60
1:F:548:THR:HA	1:F:575:TYR:CE1	2.36	0.60
1:G:324:PHE:CE1	1:G:588:ASN:HB3	2.33	0.60
1:H:555:ASP:OD2	1:H:588:ASN:HB2	2.00	0.60
1:K:555:ASP:OD2	1:K:588:ASN:HB2	2.00	0.60
1:M:548:THR:HA	1:M:575:TYR:CE1	2.36	0.60
1:O:232:PRO:HD3	1:O:480:VAL:HG11	1.82	0.60
1:B:548:THR:HA	1:B:575:TYR:CE1	2.36	0.60
1:C:200:ARG:HD2	1:C:200:ARG:H	1.66	0.60
1:D:642:TYR:CB	1:D:665:ILE:HD11	2.24	0.60
1:E:548:THR:HA	1:E:575:TYR:CE1	2.36	0.60
1:G:232:PRO:HD3	1:G:480:VAL:HG11	1.82	0.60
1:G:548:THR:HA	1:G:575:TYR:CE1	2.36	0.60
1:I:548:THR:HA	1:I:575:TYR:CE1	2.36	0.60
1:K:483:GLN:HE22	1:L:245:LYS:N	1.96	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:324:PHE:CE1	1:M:588:ASN:HB3	2.33	0.60
1:A:196:VAL:CG1	1:A:201:THR:HG22	2.29	0.60
1:B:365:ARG:HH11	1:B:414:LYS:HD3	1.67	0.60
1:D:316:ILE:HD12	1:E:496:LYS:HD3	1.84	0.60
1:G:555:ASP:OD2	1:G:588:ASN:HB2	2.00	0.60
1:K:642:TYR:HB2	1:K:665:ILE:CD1	2.27	0.60
1:D:305:GLY:HA2	1:E:670:GLN:HE21	1.66	0.60
1:D:365:ARG:HH11	1:D:414:LYS:HD3	1.67	0.60
1:I:189:VAL:HG13	1:J:199:LYS:CB	2.31	0.60
1:I:189:VAL:CG1	1:J:199:LYS:HB2	2.32	0.60
1:H:232:PRO:HD3	1:H:480:VAL:HG11	1.82	0.60
1:H:548:THR:HA	1:H:575:TYR:CE1	2.36	0.60
1:K:189:VAL:HG13	1:L:199:LYS:CB	2.31	0.60
1:B:229:ALA:O	1:B:230:SER:HB2	2.02	0.60
1:C:555:ASP:OD2	1:C:588:ASN:HB2	2.00	0.60
1:E:642:TYR:CB	1:E:665:ILE:HD11	2.24	0.60
1:I:200:ARG:H	1:I:200:ARG:HD2	1.66	0.60
1:L:232:PRO:HD3	1:L:480:VAL:HG11	1.82	0.60
1:M:365:ARG:HH11	1:M:414:LYS:HD3	1.67	0.60
1:E:404:ILE:HD12	1:E:404:ILE:N	2.17	0.60
1:F:483:GLN:NE2	1:O:469:VAL:HG21	2.17	0.60
1:G:365:ARG:HH11	1:G:414:LYS:HD3	1.67	0.60
1:G:404:ILE:N	1:G:404:ILE:HD12	2.17	0.60
1:J:229:ALA:O	1:J:230:SER:HB2	2.02	0.60
1:L:178:ARG:NH1	1:M:200:ARG:HB3	2.17	0.60
1:L:548:THR:HA	1:L:575:TYR:CE1	2.36	0.60
1:A:404:ILE:N	1:A:404:ILE:HD12	2.17	0.59
1:D:303:VAL:HG23	1:E:670:GLN:HG2	1.82	0.59
1:H:404:ILE:HD12	1:H:404:ILE:N	2.17	0.59
1:I:642:TYR:HB2	1:I:665:ILE:CD1	2.27	0.59
1:J:548:THR:HA	1:J:575:TYR:CE1	2.36	0.59
1:K:232:PRO:HD3	1:K:480:VAL:HG11	1.82	0.59
1:O:365:ARG:HH11	1:O:414:LYS:HD3	1.67	0.59
1:D:289:ILE:O	1:D:289:ILE:HG13	2.00	0.59
1:I:404:ILE:N	1:I:404:ILE:HD12	2.17	0.59
1:K:365:ARG:HH11	1:K:414:LYS:HD3	1.67	0.59
1:K:404:ILE:HD12	1:K:404:ILE:N	2.17	0.59
1:E:229:ALA:O	1:E:230:SER:HB2	2.02	0.59
1:G:229:ALA:O	1:G:230:SER:HB2	2.02	0.59
1:I:307:ALA:O	1:J:669:ARG:HA	2.03	0.59
1:L:455:VAL:O	1:L:455:VAL:HG13	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:404:ILE:N	1:O:404:ILE:HD12	2.17	0.59
1:K:455:VAL:HG13	1:K:455:VAL:O	2.03	0.59
1:L:318:GLY:CA	1:M:410:TYR:CE1	2.85	0.59
1:L:404:ILE:N	1:L:404:ILE:HD12	2.17	0.59
1:A:200:ARG:HD2	1:A:200:ARG:N	2.18	0.59
1:B:200:ARG:H	1:B:200:ARG:HD2	1.66	0.59
1:B:200:ARG:HD2	1:B:200:ARG:N	2.18	0.59
1:D:365:ARG:NH1	1:D:414:LYS:HD3	2.18	0.59
1:D:455:VAL:O	1:D:455:VAL:HG13	2.03	0.59
1:E:200:ARG:HD2	1:E:200:ARG:N	2.18	0.59
1:F:196:VAL:CG1	1:F:201:THR:HG22	2.30	0.59
1:F:645:GLU:HG3	1:F:697:ASN:HB2	1.85	0.59
1:H:515:GLU:OE1	1:I:245:LYS:HE2	2.03	0.59
1:I:298:THR:HB	1:I:601:ASN:HB3	1.85	0.59
1:J:404:ILE:N	1:J:404:ILE:HD12	2.17	0.59
1:K:200:ARG:HD2	1:K:200:ARG:N	2.18	0.59
1:L:200:ARG:H	1:L:200:ARG:HD2	1.66	0.59
1:M:404:ILE:HD12	1:M:404:ILE:N	2.17	0.59
1:O:548:THR:HA	1:O:575:TYR:CE1	2.36	0.59
1:A:365:ARG:NH1	1:A:414:LYS:HD3	2.18	0.59
1:A:645:GLU:HG3	1:A:697:ASN:HB2	1.85	0.59
1:B:404:ILE:HD12	1:B:404:ILE:N	2.17	0.59
1:F:455:VAL:HG13	1:F:455:VAL:O	2.03	0.59
1:H:455:VAL:HG13	1:H:455:VAL:O	2.03	0.59
1:J:224:GLU:OE2	1:K:201:THR:HG23	2.02	0.59
1:J:312:SER:HA	1:J:315:ASP:OD2	2.03	0.59
1:K:645:GLU:HG3	1:K:697:ASN:HB2	1.85	0.59
1:M:326:ASN:O	1:M:327:SER:HB2	2.03	0.59
1:O:200:ARG:HD2	1:O:200:ARG:N	2.18	0.59
1:O:298:THR:HB	1:O:601:ASN:HB3	1.85	0.59
1:O:488:THR:HB	1:O:504:ARG:HB3	1.85	0.59
1:D:229:ALA:O	1:D:230:SER:HB2	2.02	0.59
1:G:382:SER:CB	1:G:393:THR:HG22	2.33	0.59
1:I:365:ARG:HH11	1:I:414:LYS:HD3	1.67	0.59
1:I:645:GLU:HG3	1:I:697:ASN:HB2	1.85	0.59
1:J:298:THR:HB	1:J:601:ASN:HB3	1.85	0.59
1:K:312:SER:HA	1:K:315:ASP:OD2	2.03	0.59
1:L:229:ALA:O	1:L:230:SER:HB2	2.02	0.59
1:M:312:SER:HA	1:M:315:ASP:OD2	2.03	0.59
1:O:455:VAL:O	1:O:455:VAL:HG13	2.03	0.59
1:A:326:ASN:O	1:A:327:SER:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:515:GLU:OE1	1:B:245:LYS:HE2	2.03	0.59
1:C:645:GLU:HG3	1:C:697:ASN:HB2	1.85	0.59
1:F:200:ARG:HD2	1:F:200:ARG:N	2.18	0.59
1:F:243:ILE:HG12	1:F:244:ASP:H	1.68	0.59
1:F:488:THR:HB	1:F:504:ARG:HB3	1.85	0.59
1:G:365:ARG:NH1	1:G:414:LYS:HD3	2.18	0.59
1:I:229:ALA:O	1:I:230:SER:HB2	2.02	0.59
1:J:365:ARG:HH11	1:J:414:LYS:HD3	1.67	0.59
1:L:365:ARG:HH11	1:L:414:LYS:HD3	1.67	0.59
1:A:382:SER:CB	1:A:393:THR:HG22	2.33	0.59
1:C:488:THR:HB	1:C:504:ARG:HB3	1.85	0.59
1:D:200:ARG:HD2	1:D:200:ARG:N	2.18	0.59
1:E:318:GLY:HA2	1:F:410:TYR:CE1	2.38	0.59
1:E:455:VAL:HG13	1:E:455:VAL:O	2.03	0.59
1:F:260:PRO:HD3	1:F:477:TRP:CH2	2.38	0.59
1:G:260:PRO:HD3	1:G:477:TRP:CH2	2.38	0.59
1:G:298:THR:HB	1:G:601:ASN:HB3	1.85	0.59
1:G:488:THR:HB	1:G:504:ARG:HB3	1.85	0.59
1:H:298:THR:HB	1:H:601:ASN:HB3	1.85	0.59
1:H:382:SER:CB	1:H:393:THR:HG22	2.33	0.59
1:J:260:PRO:HD3	1:J:477:TRP:CH2	2.38	0.59
1:J:596:PHE:N	1:J:596:PHE:CD1	2.71	0.59
1:J:645:GLU:HG3	1:J:697:ASN:HB2	1.85	0.59
1:L:382:SER:CB	1:L:393:THR:HG22	2.33	0.59
1:O:187:LEU:CD2	1:O:205:PRO:HB3	2.33	0.59
1:A:596:PHE:CD1	1:A:596:PHE:N	2.71	0.59
1:B:232:PRO:HG2	1:B:233:TYR:CE1	2.38	0.59
1:D:326:ASN:O	1:D:327:SER:HB2	2.03	0.59
1:E:232:PRO:HG2	1:E:233:TYR:CE1	2.38	0.59
1:E:365:ARG:HH11	1:E:414:LYS:HD3	1.67	0.59
1:E:488:THR:HB	1:E:504:ARG:HB3	1.85	0.59
1:F:232:PRO:HG2	1:F:233:TYR:CE1	2.38	0.59
1:F:486:GLU:OE1	1:F:586:LYS:HE2	2.03	0.59
1:F:515:GLU:OE1	1:O:245:LYS:HE2	2.02	0.59
1:F:642:TYR:CB	1:F:665:ILE:HD11	2.24	0.59
1:G:232:PRO:HG2	1:G:233:TYR:CE1	2.38	0.59
1:H:312:SER:HA	1:H:315:ASP:OD2	2.03	0.59
1:O:645:GLU:HG3	1:O:697:ASN:HB2	1.85	0.59
1:A:488:THR:HB	1:A:504:ARG:HB3	1.85	0.58
1:B:365:ARG:NH1	1:B:414:LYS:HD3	2.18	0.58
1:B:411:TYR:HD2	1:B:412:PRO:HD3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:488:THR:HB	1:D:504:ARG:HB3	1.85	0.58
1:F:326:ASN:O	1:F:327:SER:HB2	2.03	0.58
1:G:326:ASN:O	1:G:327:SER:HB2	2.03	0.58
1:I:312:SER:HA	1:I:315:ASP:OD2	2.03	0.58
1:I:455:VAL:O	1:I:455:VAL:HG13	2.03	0.58
1:J:365:ARG:NH1	1:J:414:LYS:HD3	2.18	0.58
1:K:187:LEU:CD2	1:K:205:PRO:HB3	2.33	0.58
1:M:229:ALA:O	1:M:230:SER:HB2	2.03	0.58
1:M:260:PRO:HD3	1:M:477:TRP:CH2	2.38	0.58
1:A:187:LEU:CD2	1:A:205:PRO:HB3	2.33	0.58
1:A:229:ALA:O	1:A:230:SER:HB2	2.02	0.58
1:A:455:VAL:O	1:A:455:VAL:HG13	2.03	0.58
1:B:455:VAL:O	1:B:455:VAL:HG13	2.03	0.58
1:B:488:THR:HB	1:B:504:ARG:HB3	1.85	0.58
1:C:232:PRO:HG2	1:C:233:TYR:CE1	2.38	0.58
1:C:260:PRO:HD3	1:C:477:TRP:CH2	2.38	0.58
1:C:382:SER:CB	1:C:393:THR:HG22	2.33	0.58
1:E:187:LEU:CD2	1:E:205:PRO:HB3	2.33	0.58
1:E:243:ILE:HG12	1:E:244:ASP:H	1.68	0.58
1:F:298:THR:HB	1:F:601:ASN:HB3	1.85	0.58
1:G:200:ARG:HD2	1:G:200:ARG:N	2.18	0.58
1:G:642:TYR:HB2	1:G:665:ILE:CD1	2.27	0.58
1:H:187:LEU:CD2	1:H:205:PRO:HB3	2.33	0.58
1:H:243:ILE:HG12	1:H:244:ASP:H	1.68	0.58
1:H:310:HIS:H	1:H:310:HIS:HD1	1.51	0.58
1:H:365:ARG:HH11	1:H:414:LYS:HD3	1.67	0.58
1:H:486:GLU:OE1	1:H:586:LYS:HE2	2.03	0.58
1:I:243:ILE:HG12	1:I:244:ASP:H	1.68	0.58
1:I:365:ARG:NH1	1:I:414:LYS:HD3	2.18	0.58
1:L:200:ARG:HD2	1:L:200:ARG:N	2.18	0.58
1:O:260:PRO:HD3	1:O:477:TRP:CH2	2.38	0.58
1:O:326:ASN:O	1:O:327:SER:HB2	2.03	0.58
1:A:298:THR:HB	1:A:601:ASN:HB3	1.85	0.58
1:A:365:ARG:HH11	1:A:414:LYS:HD3	1.67	0.58
1:A:411:TYR:HD2	1:A:412:PRO:HD3	1.68	0.58
1:D:382:SER:CB	1:D:393:THR:HG22	2.33	0.58
1:D:404:ILE:N	1:D:404:ILE:HD12	2.17	0.58
1:E:382:SER:CB	1:E:393:THR:HG22	2.33	0.58
1:E:486:GLU:OE1	1:E:586:LYS:HE2	2.03	0.58
1:F:229:ALA:O	1:F:230:SER:HB2	2.02	0.58
1:G:410:TYR:CE1	1:M:318:GLY:HA2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:318:GLY:HA3	1:I:410:TYR:HE1	1.61	0.58
1:H:642:TYR:HB2	1:H:665:ILE:CD1	2.27	0.58
1:I:187:LEU:CD2	1:I:205:PRO:HB3	2.34	0.58
1:J:189:VAL:CG1	1:K:199:LYS:CG	2.80	0.58
1:J:455:VAL:O	1:J:455:VAL:HG13	2.03	0.58
1:K:260:PRO:HD3	1:K:477:TRP:CH2	2.38	0.58
1:K:365:ARG:NH1	1:K:414:LYS:HD3	2.18	0.58
1:K:488:THR:HB	1:K:504:ARG:HB3	1.85	0.58
1:L:365:ARG:NH1	1:L:414:LYS:HD3	2.18	0.58
1:L:486:GLU:OE1	1:L:586:LYS:HE2	2.03	0.58
1:M:645:GLU:HG3	1:M:697:ASN:HB2	1.85	0.58
1:O:382:SER:CB	1:O:393:THR:HG22	2.33	0.58
1:A:312:SER:HA	1:A:315:ASP:OD2	2.03	0.58
1:A:486:GLU:OE1	1:A:586:LYS:HE2	2.03	0.58
1:B:312:SER:HA	1:B:315:ASP:OD2	2.03	0.58
1:B:382:SER:CB	1:B:393:THR:HG22	2.33	0.58
1:C:312:SER:HA	1:C:315:ASP:OD2	2.03	0.58
1:F:404:ILE:HD12	1:F:404:ILE:N	2.17	0.58
1:F:629:LEU:HD12	1:F:629:LEU:N	2.19	0.58
1:G:187:LEU:CD2	1:G:205:PRO:HB3	2.34	0.58
1:G:312:SER:HA	1:G:315:ASP:OD2	2.03	0.58
1:J:382:SER:CB	1:J:393:THR:HG22	2.33	0.58
1:K:243:ILE:HG12	1:K:244:ASP:H	1.68	0.58
1:K:596:PHE:N	1:K:596:PHE:CD1	2.71	0.58
1:M:629:LEU:N	1:M:629:LEU:HD12	2.19	0.58
1:O:411:TYR:HD2	1:O:412:PRO:HD3	1.68	0.58
1:A:260:PRO:HD3	1:A:477:TRP:CH2	2.38	0.58
1:C:365:ARG:HH11	1:C:414:LYS:HD3	1.67	0.58
1:C:642:TYR:HB2	1:C:665:ILE:CD1	2.27	0.58
1:E:645:GLU:HG3	1:E:697:ASN:HB2	1.85	0.58
1:F:365:ARG:NH1	1:F:414:LYS:HD3	2.18	0.58
1:G:245:LYS:HE3	1:M:512:ASP:OD1	2.03	0.58
1:G:486:GLU:OE1	1:G:586:LYS:HE2	2.03	0.58
1:G:645:GLU:HG3	1:G:697:ASN:HB2	1.85	0.58
1:H:200:ARG:HD2	1:H:200:ARG:N	2.18	0.58
1:I:260:PRO:HD3	1:I:477:TRP:CH2	2.38	0.58
1:I:411:TYR:HD2	1:I:412:PRO:HD3	1.68	0.58
1:K:298:THR:HB	1:K:601:ASN:HB3	1.85	0.58
1:K:486:GLU:OE1	1:K:586:LYS:HE2	2.03	0.58
1:L:189:VAL:HG13	1:M:199:LYS:HB2	1.85	0.58
1:L:260:PRO:HD3	1:L:477:TRP:CH2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:200:ARG:HD2	1:M:200:ARG:N	2.18	0.58
1:O:232:PRO:HG2	1:O:233:TYR:CE1	2.38	0.58
1:O:243:ILE:HG12	1:O:244:ASP:H	1.68	0.58
1:C:196:VAL:CG1	1:C:201:THR:HG22	2.29	0.58
1:C:596:PHE:N	1:C:596:PHE:CD1	2.71	0.58
1:C:629:LEU:HD12	1:C:629:LEU:N	2.19	0.58
1:D:187:LEU:CD2	1:D:205:PRO:HB3	2.33	0.58
1:D:243:ILE:HG12	1:D:244:ASP:H	1.68	0.58
1:G:243:ILE:HG12	1:G:244:ASP:H	1.68	0.58
1:H:596:PHE:N	1:H:596:PHE:CD1	2.71	0.58
1:L:312:SER:HA	1:L:315:ASP:OD2	2.03	0.58
1:L:629:LEU:HD12	1:L:629:LEU:N	2.19	0.58
1:M:269:ILE:CD1	1:M:334:ILE:HD13	2.34	0.58
1:B:260:PRO:HD3	1:B:477:TRP:CH2	2.38	0.58
1:E:243:ILE:HD11	1:E:247:VAL:HG21	1.86	0.58
1:E:365:ARG:NH1	1:E:414:LYS:HD3	2.18	0.58
1:I:200:ARG:HD2	1:I:200:ARG:N	2.18	0.58
1:K:232:PRO:HG2	1:K:233:TYR:CE1	2.38	0.58
1:K:411:TYR:HD2	1:K:412:PRO:HD3	1.68	0.58
1:L:326:ASN:O	1:L:327:SER:HB2	2.03	0.58
1:M:232:PRO:HG2	1:M:233:TYR:CE1	2.38	0.58
1:O:312:SER:HA	1:O:315:ASP:OD2	2.03	0.58
1:A:232:PRO:HG2	1:A:233:TYR:CE1	2.38	0.58
1:B:486:GLU:OE1	1:B:586:LYS:HE2	2.03	0.58
1:C:187:LEU:CD2	1:C:205:PRO:HB3	2.33	0.58
1:C:229:ALA:O	1:C:230:SER:HB2	2.02	0.58
1:D:312:SER:HA	1:D:315:ASP:OD2	2.03	0.58
1:D:411:TYR:HD2	1:D:412:PRO:HD3	1.68	0.58
1:E:411:TYR:HD2	1:E:412:PRO:HD3	1.68	0.58
1:F:365:ARG:HH11	1:F:414:LYS:HD3	1.67	0.58
1:H:243:ILE:HD11	1:H:247:VAL:HG21	1.86	0.58
1:H:411:TYR:HD2	1:H:412:PRO:HD3	1.68	0.58
1:H:629:LEU:N	1:H:629:LEU:HD12	2.19	0.58
1:H:645:GLU:HG3	1:H:697:ASN:HB2	1.85	0.58
1:K:382:SER:CB	1:K:393:THR:HG22	2.33	0.58
1:L:232:PRO:HG2	1:L:233:TYR:CE1	2.38	0.58
1:L:635:ILE:O	1:L:638:ILE:HG12	2.04	0.58
1:L:645:GLU:HG3	1:L:697:ASN:HB2	1.85	0.58
1:M:411:TYR:HD2	1:M:412:PRO:HD3	1.69	0.58
1:O:229:ALA:O	1:O:230:SER:HB2	2.02	0.58
1:O:629:LEU:HD12	1:O:629:LEU:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:ILE:C	1:A:318:GLY:H	2.12	0.58
1:B:298:THR:HB	1:B:601:ASN:HB3	1.85	0.58
1:B:596:PHE:N	1:B:596:PHE:CD1	2.71	0.58
1:C:200:ARG:HD2	1:C:200:ARG:N	2.18	0.58
1:D:298:THR:HB	1:D:601:ASN:HB3	1.85	0.58
1:D:635:ILE:O	1:D:638:ILE:HG12	2.04	0.58
1:E:260:PRO:HD3	1:E:477:TRP:CH2	2.38	0.58
1:E:269:ILE:CD1	1:E:334:ILE:HD13	2.34	0.58
1:F:243:ILE:HD11	1:F:247:VAL:HG21	1.86	0.58
1:F:635:ILE:O	1:F:638:ILE:HG12	2.04	0.58
1:G:635:ILE:O	1:G:638:ILE:HG12	2.04	0.58
1:K:635:ILE:O	1:K:638:ILE:HG12	2.04	0.58
1:L:642:TYR:HB2	1:L:665:ILE:CD1	2.27	0.58
1:M:187:LEU:CD2	1:M:205:PRO:HB3	2.33	0.58
1:A:243:ILE:HD11	1:A:247:VAL:HG21	1.86	0.58
1:B:316:ILE:C	1:B:318:GLY:H	2.12	0.58
1:C:243:ILE:HD11	1:C:247:VAL:HG21	1.86	0.58
1:C:316:ILE:C	1:C:318:GLY:H	2.12	0.58
1:D:316:ILE:C	1:D:318:GLY:H	2.12	0.58
1:E:442:LEU:HD13	1:E:448:LEU:HD21	1.86	0.58
1:F:596:PHE:N	1:F:596:PHE:CD1	2.71	0.58
1:H:224:GLU:OE2	1:I:201:THR:N	2.36	0.58
1:H:232:PRO:HG2	1:H:233:TYR:CE1	2.38	0.58
1:H:412:PRO:O	1:H:413:SER:C	2.47	0.58
1:H:488:THR:HB	1:H:504:ARG:HB3	1.85	0.58
1:H:635:ILE:O	1:H:638:ILE:HG12	2.04	0.58
1:I:382:SER:CB	1:I:393:THR:HG22	2.33	0.58
1:J:187:LEU:CD2	1:J:205:PRO:HB3	2.34	0.58
1:J:232:PRO:HG2	1:J:233:TYR:CE1	2.38	0.58
1:L:596:PHE:N	1:L:596:PHE:CD1	2.71	0.58
1:M:243:ILE:HG12	1:M:244:ASP:H	1.68	0.58
1:M:243:ILE:HD11	1:M:247:VAL:HG21	1.86	0.58
1:M:382:SER:CB	1:M:393:THR:HG22	2.33	0.58
1:M:486:GLU:OE1	1:M:586:LYS:HE2	2.03	0.58
1:O:243:ILE:HD11	1:O:247:VAL:HG21	1.86	0.58
1:O:365:ARG:NH1	1:O:414:LYS:HD3	2.18	0.58
1:B:326:ASN:O	1:B:327:SER:HB2	2.03	0.57
1:B:629:LEU:N	1:B:629:LEU:HD12	2.19	0.57
1:C:365:ARG:NH1	1:C:414:LYS:HD3	2.18	0.57
1:D:260:PRO:HD3	1:D:477:TRP:CH2	2.38	0.57
1:E:312:SER:HA	1:E:315:ASP:OD2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:326:ASN:O	1:E:327:SER:HB2	2.03	0.57
1:E:479:GLU:OE1	1:F:470:ARG:HG3	2.03	0.57
1:F:382:SER:CB	1:F:393:THR:HG22	2.33	0.57
1:G:269:ILE:CD1	1:G:334:ILE:HD13	2.34	0.57
1:I:243:ILE:HD11	1:I:247:VAL:HG21	1.86	0.57
1:I:316:ILE:C	1:I:318:GLY:H	2.12	0.57
1:J:412:PRO:O	1:J:413:SER:C	2.47	0.57
1:K:326:ASN:O	1:K:327:SER:HB2	2.03	0.57
1:L:298:THR:HB	1:L:601:ASN:HB3	1.85	0.57
1:O:442:LEU:HD13	1:O:448:LEU:HD21	1.86	0.57
1:O:596:PHE:N	1:O:596:PHE:CD1	2.71	0.57
1:B:412:PRO:O	1:B:413:SER:C	2.47	0.57
1:D:269:ILE:CD1	1:D:334:ILE:HD13	2.34	0.57
1:F:312:SER:HA	1:F:315:ASP:OD2	2.03	0.57
1:G:455:VAL:O	1:G:455:VAL:HG13	2.03	0.57
1:G:596:PHE:N	1:G:596:PHE:CD1	2.71	0.57
1:H:269:ILE:CD1	1:H:334:ILE:HD13	2.34	0.57
1:I:232:PRO:HG2	1:I:233:TYR:CE1	2.38	0.57
1:I:486:GLU:OE1	1:I:586:LYS:HE2	2.03	0.57
1:J:269:ILE:CD1	1:J:334:ILE:HD13	2.34	0.57
1:J:486:GLU:OE1	1:J:586:LYS:HE2	2.03	0.57
1:L:187:LEU:CD2	1:L:205:PRO:HB3	2.33	0.57
1:L:488:THR:HB	1:L:504:ARG:HB3	1.85	0.57
1:O:316:ILE:C	1:O:318:GLY:H	2.12	0.57
1:B:187:LEU:CD2	1:B:205:PRO:HB3	2.33	0.57
1:B:645:GLU:HG3	1:B:697:ASN:HB2	1.85	0.57
1:C:404:ILE:HD12	1:C:404:ILE:N	2.17	0.57
1:D:629:LEU:HD12	1:D:629:LEU:N	2.19	0.57
1:F:269:ILE:CD1	1:F:334:ILE:HD13	2.34	0.57
1:G:466:ASN:O	1:M:226:TRP:CG	2.58	0.57
1:G:629:LEU:HD12	1:G:629:LEU:N	2.19	0.57
1:H:326:ASN:O	1:H:327:SER:HB2	2.03	0.57
1:H:365:ARG:NH1	1:H:414:LYS:HD3	2.18	0.57
1:I:596:PHE:CD1	1:I:596:PHE:N	2.71	0.57
1:J:316:ILE:C	1:J:318:GLY:H	2.12	0.57
1:J:629:LEU:N	1:J:629:LEU:HD12	2.19	0.57
1:K:243:ILE:HD11	1:K:247:VAL:HG21	1.86	0.57
1:A:442:LEU:HD13	1:A:448:LEU:HD21	1.86	0.57
1:C:455:VAL:HG13	1:C:455:VAL:O	2.03	0.57
1:C:486:GLU:OE1	1:C:586:LYS:HE2	2.03	0.57
1:D:412:PRO:O	1:D:413:SER:C	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:411:TYR:HD2	1:J:412:PRO:HD3	1.69	0.57
1:O:635:ILE:O	1:O:638:ILE:HG12	2.04	0.57
1:C:633:LYS:O	1:C:637:LYS:HG3	2.05	0.57
1:E:629:LEU:N	1:E:629:LEU:HD12	2.19	0.57
1:E:633:LYS:O	1:E:637:LYS:HG3	2.05	0.57
1:F:187:LEU:CD2	1:F:205:PRO:HB3	2.33	0.57
1:G:243:ILE:HD11	1:G:247:VAL:HG21	1.86	0.57
1:G:442:LEU:HD13	1:G:448:LEU:HD21	1.86	0.57
1:H:316:ILE:C	1:H:318:GLY:H	2.12	0.57
1:H:633:LYS:O	1:H:637:LYS:HG3	2.05	0.57
1:I:326:ASN:O	1:I:327:SER:HB2	2.03	0.57
1:J:243:ILE:HG12	1:J:244:ASP:H	1.68	0.57
1:K:229:ALA:O	1:K:230:SER:HB2	2.03	0.57
1:K:316:ILE:C	1:K:318:GLY:H	2.12	0.57
1:L:442:LEU:HD13	1:L:448:LEU:HD21	1.86	0.57
1:M:298:THR:HB	1:M:601:ASN:HB3	1.85	0.57
1:M:365:ARG:NH1	1:M:414:LYS:HD3	2.18	0.57
1:A:366:TYR:O	1:A:411:TYR:N	2.28	0.57
1:C:635:ILE:O	1:C:638:ILE:HG12	2.04	0.57
1:D:232:PRO:HG2	1:D:233:TYR:CE1	2.38	0.57
1:D:645:GLU:HG3	1:D:697:ASN:HB2	1.85	0.57
1:E:298:THR:HB	1:E:601:ASN:HB3	1.85	0.57
1:E:596:PHE:N	1:E:596:PHE:CD1	2.71	0.57
1:F:316:ILE:C	1:F:318:GLY:H	2.12	0.57
1:I:269:ILE:CD1	1:I:334:ILE:HD13	2.34	0.57
1:J:200:ARG:HD2	1:J:200:ARG:N	2.18	0.57
1:J:326:ASN:O	1:J:327:SER:HB2	2.03	0.57
1:K:269:ILE:CD1	1:K:334:ILE:HD13	2.34	0.57
1:M:488:THR:HB	1:M:504:ARG:HB3	1.85	0.57
1:O:412:PRO:O	1:O:413:SER:C	2.47	0.57
1:O:486:GLU:OE1	1:O:586:LYS:HE2	2.03	0.57
1:A:629:LEU:HD12	1:A:629:LEU:N	2.19	0.57
1:D:596:PHE:N	1:D:596:PHE:CD1	2.71	0.57
1:D:633:LYS:O	1:D:637:LYS:HG3	2.05	0.57
1:I:629:LEU:HD12	1:I:629:LEU:N	2.19	0.57
1:J:310:HIS:HD1	1:J:310:HIS:H	1.51	0.57
1:M:412:PRO:O	1:M:413:SER:C	2.47	0.57
1:M:455:VAL:HG13	1:M:455:VAL:O	2.03	0.57
1:D:266:MET:CA	1:D:364:ILE:HG22	2.35	0.57
1:G:633:LYS:O	1:G:637:LYS:HG3	2.05	0.57
1:H:644:VAL:HG21	1:H:678:PHE:HD1	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:442:LEU:HD13	1:I:448:LEU:HD21	1.86	0.57
1:I:488:THR:HB	1:I:504:ARG:HB3	1.85	0.57
1:J:442:LEU:HD13	1:J:448:LEU:HD21	1.86	0.57
1:K:629:LEU:HD12	1:K:629:LEU:N	2.19	0.57
1:C:266:MET:CA	1:C:364:ILE:HG22	2.35	0.57
1:C:298:THR:HB	1:C:601:ASN:HB3	1.85	0.57
1:D:442:LEU:HD13	1:D:448:LEU:HD21	1.86	0.57
1:D:642:TYR:HB2	1:D:665:ILE:CD1	2.27	0.57
1:D:644:VAL:HG21	1:D:678:PHE:HD1	1.70	0.57
1:G:411:TYR:HD2	1:G:412:PRO:HD3	1.68	0.57
1:I:644:VAL:HG21	1:I:678:PHE:HD1	1.70	0.57
1:J:488:THR:HB	1:J:504:ARG:HB3	1.85	0.57
1:K:633:LYS:O	1:K:637:LYS:HG3	2.05	0.57
1:L:243:ILE:HD11	1:L:247:VAL:HG21	1.86	0.57
1:L:269:ILE:CD1	1:L:334:ILE:HD13	2.34	0.57
1:M:316:ILE:C	1:M:318:GLY:H	2.12	0.57
1:M:642:TYR:HB2	1:M:665:ILE:CD1	2.27	0.57
1:A:266:MET:CA	1:A:364:ILE:HG22	2.35	0.57
1:A:635:ILE:O	1:A:638:ILE:HG12	2.04	0.57
1:C:326:ASN:O	1:C:327:SER:HB2	2.03	0.57
1:C:412:PRO:O	1:C:413:SER:C	2.47	0.57
1:F:411:TYR:HD2	1:F:412:PRO:HD3	1.68	0.57
1:F:633:LYS:O	1:F:637:LYS:HG3	2.05	0.57
1:G:266:MET:CA	1:G:364:ILE:HG22	2.35	0.57
1:H:260:PRO:HD3	1:H:477:TRP:CH2	2.38	0.57
1:I:635:ILE:O	1:I:638:ILE:HG12	2.04	0.57
1:L:266:MET:CA	1:L:364:ILE:HG22	2.35	0.57
1:M:596:PHE:N	1:M:596:PHE:CD1	2.71	0.57
1:B:512:ASP:OD1	1:C:245:LYS:HE3	2.04	0.56
1:C:243:ILE:HG12	1:C:244:ASP:H	1.68	0.56
1:C:411:TYR:HD2	1:C:412:PRO:HD3	1.68	0.56
1:D:486:GLU:OE1	1:D:586:LYS:HE2	2.03	0.56
1:H:229:ALA:O	1:H:230:SER:HB2	2.02	0.56
1:H:442:LEU:HD13	1:H:448:LEU:HD21	1.86	0.56
1:I:724:ILE:O	1:I:726:ILE:HD13	2.06	0.56
1:J:243:ILE:HD11	1:J:247:VAL:HG21	1.86	0.56
1:L:412:PRO:O	1:L:413:SER:C	2.47	0.56
1:A:243:ILE:HG12	1:A:244:ASP:H	1.68	0.56
1:A:644:VAL:HG21	1:A:678:PHE:HD1	1.70	0.56
1:E:316:ILE:C	1:E:318:GLY:H	2.12	0.56
1:F:442:LEU:HD13	1:F:448:LEU:HD21	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:635:ILE:O	1:J:638:ILE:HG12	2.04	0.56
1:L:411:TYR:HD2	1:L:412:PRO:HD3	1.69	0.56
1:O:644:VAL:HG21	1:O:678:PHE:HD1	1.70	0.56
1:A:412:PRO:O	1:A:413:SER:C	2.47	0.56
1:B:269:ILE:CD1	1:B:334:ILE:HD13	2.34	0.56
1:B:305:GLY:HA2	1:C:670:GLN:CG	2.34	0.56
1:C:724:ILE:O	1:C:726:ILE:HD13	2.06	0.56
1:D:521:MET:HA	1:D:521:MET:CE	2.31	0.56
1:E:635:ILE:O	1:E:638:ILE:HG12	2.04	0.56
1:E:644:VAL:HG21	1:E:678:PHE:HD1	1.70	0.56
1:F:412:PRO:O	1:F:413:SER:C	2.47	0.56
1:F:487:THR:O	1:F:518:LYS:NZ	2.39	0.56
1:K:442:LEU:HD13	1:K:448:LEU:HD21	1.86	0.56
1:K:724:ILE:O	1:K:726:ILE:HD13	2.06	0.56
1:L:633:LYS:O	1:L:637:LYS:HG3	2.05	0.56
1:L:724:ILE:O	1:L:726:ILE:HD13	2.06	0.56
1:M:442:LEU:HD13	1:M:448:LEU:HD21	1.86	0.56
1:M:644:VAL:HG21	1:M:678:PHE:HD1	1.70	0.56
1:O:269:ILE:CD1	1:O:334:ILE:HD13	2.34	0.56
1:O:724:ILE:O	1:O:726:ILE:HD13	2.06	0.56
1:A:319:SER:H	1:B:414:LYS:HG3	1.71	0.56
1:A:487:THR:O	1:A:518:LYS:NZ	2.39	0.56
1:B:635:ILE:O	1:B:638:ILE:HG12	2.04	0.56
1:C:189:VAL:HG13	1:D:199:LYS:HB2	1.85	0.56
1:C:269:ILE:CD1	1:C:334:ILE:HD13	2.34	0.56
1:D:243:ILE:HD11	1:D:247:VAL:HG21	1.86	0.56
1:I:412:PRO:O	1:I:413:SER:C	2.47	0.56
1:K:306:ASN:HA	1:L:669:ARG:HG2	1.88	0.56
1:K:412:PRO:O	1:K:413:SER:C	2.47	0.56
1:A:633:LYS:O	1:A:637:LYS:HG3	2.05	0.56
1:B:487:THR:O	1:B:518:LYS:NZ	2.39	0.56
1:D:487:THR:O	1:D:518:LYS:NZ	2.39	0.56
1:J:189:VAL:CG1	1:K:199:LYS:HG2	2.35	0.56
1:M:635:ILE:O	1:M:638:ILE:HG12	2.04	0.56
1:A:269:ILE:CD1	1:A:334:ILE:HD13	2.34	0.56
1:A:724:ILE:O	1:A:726:ILE:HD13	2.06	0.56
1:B:633:LYS:O	1:B:637:LYS:HG3	2.05	0.56
1:C:302:GLU:HG3	1:C:323:GLY:HA2	1.88	0.56
1:E:266:MET:CA	1:E:364:ILE:HG22	2.35	0.56
1:E:412:PRO:O	1:E:413:SER:C	2.47	0.56
1:F:517:THR:HG23	1:O:199:LYS:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:316:ILE:C	1:L:318:GLY:H	2.12	0.56
1:B:442:LEU:HD13	1:B:448:LEU:HD21	1.86	0.56
1:D:302:GLU:HG3	1:D:323:GLY:HA2	1.88	0.56
1:F:266:MET:CA	1:F:364:ILE:HG22	2.35	0.56
1:F:642:TYR:HB2	1:F:665:ILE:CD1	2.27	0.56
1:G:302:GLU:HG3	1:G:323:GLY:HA2	1.88	0.56
1:G:487:THR:O	1:G:518:LYS:NZ	2.39	0.56
1:I:487:THR:O	1:I:518:LYS:NZ	2.39	0.56
1:I:633:LYS:O	1:I:637:LYS:HG3	2.05	0.56
1:J:633:LYS:O	1:J:637:LYS:HG3	2.05	0.56
1:L:243:ILE:HG12	1:L:244:ASP:H	1.68	0.56
1:L:584:ASN:O	1:L:587:MET:HB2	2.06	0.56
1:M:724:ILE:O	1:M:726:ILE:HD13	2.05	0.56
1:O:266:MET:CA	1:O:364:ILE:HG22	2.35	0.56
1:D:429:SER:O	1:D:431:PRO:HD3	2.06	0.56
1:G:724:ILE:O	1:G:726:ILE:HD13	2.06	0.56
1:J:724:ILE:O	1:J:726:ILE:HD13	2.05	0.56
1:K:266:MET:CA	1:K:364:ILE:HG22	2.35	0.56
1:K:366:TYR:O	1:K:411:TYR:N	2.28	0.56
1:L:487:THR:O	1:L:518:LYS:NZ	2.39	0.56
1:O:633:LYS:O	1:O:637:LYS:HG3	2.05	0.56
1:B:319:SER:H	1:C:414:LYS:HG3	1.71	0.56
1:B:497:ASP:C	1:B:499:ASN:H	2.14	0.56
1:B:644:VAL:HG21	1:B:678:PHE:HD1	1.70	0.56
1:F:724:ILE:O	1:F:726:ILE:HD13	2.06	0.56
1:H:724:ILE:O	1:H:726:ILE:HD13	2.06	0.56
1:I:497:ASP:C	1:I:499:ASN:H	2.14	0.56
1:I:521:MET:HA	1:I:521:MET:CE	2.31	0.56
1:L:302:GLU:HG3	1:L:323:GLY:HA2	1.88	0.56
1:O:429:SER:O	1:O:431:PRO:HD3	2.06	0.56
1:B:243:ILE:HD11	1:B:247:VAL:HG21	1.86	0.56
1:B:724:ILE:O	1:B:726:ILE:HD13	2.06	0.56
1:E:497:ASP:C	1:E:499:ASN:H	2.14	0.56
1:G:316:ILE:C	1:G:318:GLY:H	2.12	0.56
1:G:497:ASP:C	1:G:499:ASN:H	2.14	0.56
1:H:429:SER:O	1:H:431:PRO:HD3	2.06	0.56
1:H:487:THR:O	1:H:518:LYS:NZ	2.39	0.56
1:J:302:GLU:HG3	1:J:323:GLY:HA2	1.88	0.56
1:L:429:SER:O	1:L:431:PRO:HD3	2.06	0.56
1:M:584:ASN:O	1:M:587:MET:HB2	2.06	0.56
1:O:642:TYR:HB2	1:O:665:ILE:CD1	2.27	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:366:TYR:O	1:C:411:TYR:N	2.28	0.55
1:C:442:LEU:HD13	1:C:448:LEU:HD21	1.86	0.55
1:E:642:TYR:HB2	1:E:665:ILE:CD1	2.27	0.55
1:F:429:SER:O	1:F:431:PRO:HD3	2.06	0.55
1:K:429:SER:O	1:K:431:PRO:HD3	2.06	0.55
1:K:487:THR:O	1:K:518:LYS:NZ	2.39	0.55
1:M:429:SER:O	1:M:431:PRO:HD3	2.06	0.55
1:O:497:ASP:C	1:O:499:ASN:H	2.14	0.55
1:O:584:ASN:O	1:O:587:MET:HB2	2.06	0.55
1:A:189:VAL:CG1	1:B:199:LYS:HB2	2.36	0.55
1:A:584:ASN:O	1:A:587:MET:HB2	2.06	0.55
1:E:584:ASN:O	1:E:587:MET:HB2	2.06	0.55
1:J:487:THR:O	1:J:518:LYS:NZ	2.39	0.55
1:J:584:ASN:O	1:J:587:MET:HB2	2.06	0.55
1:K:584:ASN:O	1:K:587:MET:HB2	2.06	0.55
1:M:487:THR:O	1:M:518:LYS:NZ	2.39	0.55
1:M:497:ASP:C	1:M:499:ASN:H	2.14	0.55
1:M:633:LYS:O	1:M:637:LYS:HG3	2.05	0.55
1:F:584:ASN:O	1:F:587:MET:HB2	2.06	0.55
1:I:429:SER:O	1:I:431:PRO:HD3	2.06	0.55
1:J:429:SER:O	1:J:431:PRO:HD3	2.06	0.55
1:K:644:VAL:HG21	1:K:678:PHE:HD1	1.70	0.55
1:B:243:ILE:HG12	1:B:244:ASP:H	1.68	0.55
1:C:271:LEU:HD21	1:C:360:LEU:HD13	1.89	0.55
1:C:497:ASP:C	1:C:499:ASN:H	2.14	0.55
1:C:584:ASN:O	1:C:587:MET:HB2	2.06	0.55
1:E:271:LEU:HD21	1:E:360:LEU:HD13	1.89	0.55
1:E:724:ILE:O	1:E:726:ILE:HD13	2.06	0.55
1:F:644:VAL:HG21	1:F:678:PHE:HD1	1.70	0.55
1:G:412:PRO:O	1:G:413:SER:C	2.47	0.55
1:H:266:MET:CA	1:H:364:ILE:HG22	2.35	0.55
1:H:497:ASP:C	1:H:499:ASN:H	2.14	0.55
1:I:584:ASN:O	1:I:587:MET:HB2	2.06	0.55
1:O:302:GLU:HG3	1:O:323:GLY:HA2	1.88	0.55
1:A:360:LEU:HD12	1:A:361:ASN:H	1.72	0.55
1:B:429:SER:O	1:B:431:PRO:HD3	2.06	0.55
1:C:487:THR:O	1:C:518:LYS:NZ	2.39	0.55
1:H:521:MET:HA	1:H:521:MET:CE	2.31	0.55
1:L:644:VAL:HG21	1:L:678:PHE:HD1	1.70	0.55
1:A:497:ASP:C	1:A:499:ASN:H	2.14	0.55
1:B:360:LEU:HD12	1:B:361:ASN:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:584:ASN:O	1:B:587:MET:HB2	2.06	0.55
1:D:497:ASP:C	1:D:499:ASN:H	2.14	0.55
1:E:487:THR:O	1:E:518:LYS:NZ	2.39	0.55
1:G:366:TYR:O	1:G:411:TYR:N	2.27	0.55
1:G:584:ASN:O	1:G:587:MET:HB2	2.06	0.55
1:H:189:VAL:HG13	1:I:199:LYS:HG3	1.89	0.55
1:H:302:GLU:HG3	1:H:323:GLY:HA2	1.88	0.55
1:J:360:LEU:HD12	1:J:361:ASN:H	1.72	0.55
1:M:302:GLU:HG3	1:M:323:GLY:HA2	1.88	0.55
1:A:271:LEU:HD21	1:A:360:LEU:HD13	1.89	0.55
1:E:429:SER:O	1:E:431:PRO:HD3	2.06	0.55
1:G:521:MET:HA	1:G:521:MET:CE	2.31	0.55
1:H:271:LEU:HD21	1:H:360:LEU:HD13	1.89	0.55
1:J:497:ASP:C	1:J:499:ASN:H	2.14	0.55
1:C:429:SER:O	1:C:431:PRO:HD3	2.06	0.55
1:G:644:VAL:HG21	1:G:678:PHE:HD1	1.70	0.55
1:I:360:LEU:HD12	1:I:361:ASN:H	1.72	0.55
1:A:302:GLU:HG3	1:A:323:GLY:HA2	1.88	0.55
1:B:271:LEU:HD21	1:B:360:LEU:HD13	1.89	0.55
1:C:360:LEU:HD12	1:C:361:ASN:H	1.72	0.55
1:C:644:VAL:HG21	1:C:678:PHE:HD1	1.70	0.55
1:D:516:THR:HB	1:E:196:VAL:HG11	1.88	0.55
1:D:584:ASN:O	1:D:587:MET:HB2	2.06	0.55
1:G:360:LEU:HD12	1:G:361:ASN:H	1.72	0.55
1:G:513:PRO:HB2	1:H:240:THR:O	2.07	0.55
1:I:302:GLU:HG3	1:I:323:GLY:HA2	1.88	0.55
1:K:189:VAL:CG1	1:L:199:LYS:HB2	2.37	0.55
1:O:360:LEU:HD12	1:O:361:ASN:H	1.72	0.55
1:A:330:SER:OG	1:A:450:LEU:HB2	2.07	0.55
1:A:429:SER:O	1:A:431:PRO:HD3	2.06	0.55
1:B:302:GLU:HG3	1:B:323:GLY:HA2	1.88	0.55
1:D:271:LEU:HD21	1:D:360:LEU:HD13	1.89	0.55
1:F:271:LEU:HD21	1:F:360:LEU:HD13	1.89	0.55
1:F:330:SER:OG	1:F:450:LEU:HB2	2.07	0.55
1:G:271:LEU:HD21	1:G:360:LEU:HD13	1.89	0.55
1:H:360:LEU:HD12	1:H:361:ASN:H	1.72	0.55
1:J:479:GLU:OE1	1:K:470:ARG:HA	2.07	0.55
1:J:644:VAL:HG21	1:J:678:PHE:HD1	1.70	0.55
1:O:487:THR:O	1:O:518:LYS:NZ	2.39	0.55
1:A:493:PHE:HA	1:A:591:ILE:O	2.07	0.54
1:B:479:GLU:OE1	1:C:470:ARG:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:330:SER:OG	1:C:450:LEU:HB2	2.07	0.54
1:G:429:SER:O	1:G:431:PRO:HD3	2.06	0.54
1:G:493:PHE:HA	1:G:591:ILE:O	2.07	0.54
1:H:584:ASN:O	1:H:587:MET:HB2	2.06	0.54
1:I:493:PHE:HA	1:I:591:ILE:O	2.07	0.54
1:K:181:ASP:OD1	1:K:182:GLY:N	2.41	0.54
1:K:302:GLU:HG3	1:K:323:GLY:HA2	1.88	0.54
1:K:497:ASP:C	1:K:499:ASN:H	2.14	0.54
1:L:330:SER:OG	1:L:450:LEU:HB2	2.07	0.54
1:D:360:LEU:HD12	1:D:361:ASN:H	1.72	0.54
1:E:330:SER:OG	1:E:450:LEU:HB2	2.07	0.54
1:H:330:SER:OG	1:H:450:LEU:HB2	2.07	0.54
1:J:330:SER:OG	1:J:450:LEU:HB2	2.07	0.54
1:A:181:ASP:OD1	1:A:182:GLY:N	2.41	0.54
1:A:521:MET:HE2	1:A:525:GLU:HB3	1.90	0.54
1:B:181:ASP:OD1	1:B:182:GLY:N	2.41	0.54
1:C:251:ALA:HB1	1:C:258:ALA:HB2	1.90	0.54
1:G:199:LYS:HB2	1:M:189:VAL:CG1	2.38	0.54
1:I:311:ALA:HB2	1:J:636:ARG:NH1	2.23	0.54
1:K:493:PHE:HA	1:K:591:ILE:O	2.07	0.54
1:D:493:PHE:HA	1:D:591:ILE:O	2.07	0.54
1:F:302:GLU:HG3	1:F:323:GLY:HA2	1.88	0.54
1:F:497:ASP:C	1:F:499:ASN:H	2.14	0.54
1:I:181:ASP:OD1	1:I:182:GLY:N	2.41	0.54
1:I:314:PHE:CE2	1:J:672:GLY:HA2	2.43	0.54
1:J:229:ALA:O	1:J:230:SER:CB	2.55	0.54
1:L:497:ASP:C	1:L:499:ASN:H	2.14	0.54
1:O:271:LEU:HD21	1:O:360:LEU:HD13	1.89	0.54
1:A:229:ALA:O	1:A:230:SER:CB	2.55	0.54
1:B:521:MET:HE2	1:B:525:GLU:HB3	1.90	0.54
1:D:521:MET:HE2	1:D:525:GLU:HB3	1.90	0.54
1:E:181:ASP:OD1	1:E:182:GLY:N	2.41	0.54
1:E:364:ILE:O	1:E:364:ILE:HD12	2.08	0.54
1:H:181:ASP:OD1	1:H:182:GLY:N	2.41	0.54
1:I:521:MET:HE2	1:I:525:GLU:HB3	1.90	0.54
1:L:271:LEU:HD21	1:L:360:LEU:HD13	1.89	0.54
1:O:229:ALA:O	1:O:230:SER:CB	2.55	0.54
1:B:229:ALA:O	1:B:230:SER:CB	2.55	0.54
1:B:662:MET:HE2	1:B:681:TYR:HB3	1.90	0.54
1:D:251:ALA:HB1	1:D:258:ALA:HB2	1.90	0.54
1:E:302:GLU:HG3	1:E:323:GLY:HA2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:229:ALA:O	1:F:230:SER:CB	2.55	0.54
1:F:364:ILE:HD12	1:F:364:ILE:O	2.08	0.54
1:I:229:ALA:O	1:I:230:SER:CB	2.56	0.54
1:I:477:TRP:HB3	1:I:481:LEU:HD12	1.90	0.54
1:J:242:ARG:HB3	1:J:462:TYR:CE2	2.43	0.54
1:J:271:LEU:HD21	1:J:360:LEU:HD13	1.89	0.54
1:O:330:SER:OG	1:O:450:LEU:HB2	2.07	0.54
1:B:332:VAL:HG23	1:B:448:LEU:H	1.73	0.54
1:C:364:ILE:HD12	1:C:364:ILE:O	2.08	0.54
1:C:493:PHE:HA	1:C:591:ILE:O	2.07	0.54
1:D:181:ASP:OD1	1:D:182:GLY:N	2.41	0.54
1:D:229:ALA:O	1:D:230:SER:CB	2.55	0.54
1:D:364:ILE:HD12	1:D:364:ILE:O	2.08	0.54
1:E:493:PHE:HA	1:E:591:ILE:O	2.07	0.54
1:F:662:MET:HE2	1:F:681:TYR:HB3	1.90	0.54
1:G:181:ASP:OD1	1:G:182:GLY:N	2.41	0.54
1:G:330:SER:OG	1:G:450:LEU:HB2	2.07	0.54
1:H:662:MET:HE2	1:H:681:TYR:HB3	1.90	0.54
1:J:493:PHE:HA	1:J:591:ILE:O	2.07	0.54
1:L:229:ALA:O	1:L:230:SER:CB	2.55	0.54
1:L:360:LEU:HD12	1:L:361:ASN:H	1.72	0.54
1:L:364:ILE:HD12	1:L:364:ILE:O	2.08	0.54
1:M:477:TRP:HB3	1:M:481:LEU:HD12	1.90	0.54
1:O:181:ASP:OD1	1:O:182:GLY:N	2.41	0.54
1:O:251:ALA:HB1	1:O:258:ALA:HB2	1.90	0.54
1:O:477:TRP:HB3	1:O:481:LEU:HD12	1.90	0.54
1:A:364:ILE:HD12	1:A:364:ILE:O	2.08	0.54
1:D:242:ARG:HB3	1:D:462:TYR:CE2	2.43	0.54
1:E:251:ALA:HB1	1:E:258:ALA:HB2	1.90	0.54
1:F:181:ASP:OD1	1:F:182:GLY:N	2.41	0.54
1:F:318:GLY:HA2	1:O:410:TYR:HE1	1.69	0.54
1:F:332:VAL:HG23	1:F:448:LEU:H	1.73	0.54
1:G:199:LYS:CG	1:M:189:VAL:HG13	2.37	0.54
1:G:364:ILE:HD12	1:G:364:ILE:O	2.08	0.54
1:H:364:ILE:O	1:H:364:ILE:HD12	2.08	0.54
1:H:477:TRP:HB3	1:H:481:LEU:HD12	1.90	0.54
1:I:259:TYR:CD2	1:I:259:TYR:N	2.76	0.54
1:I:309:VAL:O	1:J:668:LEU:HB3	2.07	0.54
1:K:271:LEU:HD21	1:K:360:LEU:HD13	1.89	0.54
1:K:330:SER:OG	1:K:450:LEU:HB2	2.07	0.54
1:L:181:ASP:OD1	1:L:182:GLY:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:242:ARG:HB3	1:M:462:TYR:CE2	2.43	0.54
1:M:330:SER:OG	1:M:450:LEU:HB2	2.07	0.54
1:M:493:PHE:HA	1:M:591:ILE:O	2.07	0.54
1:O:364:ILE:HD12	1:O:364:ILE:O	2.08	0.54
1:O:493:PHE:HA	1:O:591:ILE:O	2.07	0.54
1:A:477:TRP:HB3	1:A:481:LEU:HD12	1.90	0.54
1:B:251:ALA:HB1	1:B:258:ALA:HB2	1.90	0.54
1:C:181:ASP:OD1	1:C:182:GLY:N	2.41	0.54
1:C:332:VAL:HG23	1:C:448:LEU:H	1.73	0.54
1:C:505:ILE:HD12	1:C:505:ILE:N	2.23	0.54
1:C:659:ARG:HA	1:C:716:THR:O	2.08	0.54
1:E:360:LEU:HD12	1:E:361:ASN:H	1.72	0.54
1:F:493:PHE:HA	1:F:591:ILE:O	2.07	0.54
1:H:332:VAL:HG23	1:H:448:LEU:H	1.73	0.54
1:H:515:GLU:HG3	1:H:518:LYS:HD2	1.90	0.54
1:I:330:SER:OG	1:I:450:LEU:HB2	2.07	0.54
1:J:364:ILE:HD12	1:J:364:ILE:O	2.08	0.54
1:J:521:MET:HE2	1:J:525:GLU:HB3	1.90	0.54
1:K:364:ILE:HD12	1:K:364:ILE:O	2.08	0.54
1:K:521:MET:HE2	1:K:525:GLU:HB3	1.90	0.54
1:L:505:ILE:N	1:L:505:ILE:HD12	2.23	0.54
1:A:318:GLY:HA2	1:B:410:TYR:HE1	1.73	0.54
1:A:515:GLU:HG3	1:A:518:LYS:HD2	1.90	0.54
1:A:631:ILE:HD12	1:A:674:THR:HG21	1.90	0.54
1:A:662:MET:HE2	1:A:681:TYR:HB3	1.90	0.54
1:B:259:TYR:CD2	1:B:259:TYR:N	2.76	0.54
1:C:242:ARG:HB3	1:C:462:TYR:CE2	2.43	0.54
1:D:364:ILE:HD12	1:D:419:ILE:HB	1.90	0.54
1:D:505:ILE:N	1:D:505:ILE:HD12	2.23	0.54
1:E:242:ARG:HB3	1:E:462:TYR:CE2	2.43	0.54
1:E:364:ILE:HD12	1:E:419:ILE:HB	1.90	0.54
1:E:659:ARG:HA	1:E:716:THR:O	2.08	0.54
1:G:477:TRP:HB3	1:G:481:LEU:HD12	1.90	0.54
1:G:659:ARG:HA	1:G:716:THR:O	2.08	0.54
1:I:271:LEU:HD21	1:I:360:LEU:HD13	1.89	0.54
1:M:360:LEU:HD12	1:M:361:ASN:H	1.72	0.54
1:O:631:ILE:HD12	1:O:674:THR:HG21	1.90	0.54
1:A:259:TYR:CD2	1:A:259:TYR:N	2.76	0.53
1:B:364:ILE:HD12	1:B:364:ILE:O	2.08	0.53
1:C:229:ALA:O	1:C:230:SER:CB	2.55	0.53
1:D:662:MET:HE2	1:D:681:TYR:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:ILE:O	1:D:726:ILE:HD13	2.06	0.53
1:E:332:VAL:HG23	1:E:448:LEU:H	1.73	0.53
1:F:360:LEU:HD12	1:F:361:ASN:H	1.72	0.53
1:F:477:TRP:HB3	1:F:481:LEU:HD12	1.90	0.53
1:G:259:TYR:CD2	1:G:259:TYR:N	2.76	0.53
1:H:631:ILE:HD12	1:H:674:THR:HG21	1.90	0.53
1:J:181:ASP:OD1	1:J:182:GLY:N	2.41	0.53
1:J:259:TYR:CD2	1:J:259:TYR:N	2.76	0.53
1:J:659:ARG:HA	1:J:716:THR:O	2.08	0.53
1:K:360:LEU:HD12	1:K:361:ASN:H	1.72	0.53
1:K:505:ILE:HD12	1:K:505:ILE:N	2.23	0.53
1:L:189:VAL:CG1	1:M:199:LYS:HB2	2.38	0.53
1:O:258:ALA:HA	1:O:371:THR:HG1	1.72	0.53
1:B:364:ILE:HD12	1:B:419:ILE:HB	1.90	0.53
1:B:515:GLU:HG3	1:B:518:LYS:HD2	1.91	0.53
1:C:521:MET:HE2	1:C:525:GLU:HB3	1.90	0.53
1:D:330:SER:OG	1:D:450:LEU:HB2	2.07	0.53
1:D:332:VAL:HG23	1:D:448:LEU:H	1.73	0.53
1:E:229:ALA:O	1:E:230:SER:CB	2.55	0.53
1:F:242:ARG:HB3	1:F:462:TYR:CE2	2.43	0.53
1:G:242:ARG:HB3	1:G:462:TYR:CE2	2.43	0.53
1:G:662:MET:HE2	1:G:681:TYR:HB3	1.90	0.53
1:H:207:ILE:CG2	1:H:210:ILE:HG12	2.39	0.53
1:H:226:TRP:CB	1:I:466:ASN:O	2.56	0.53
1:H:229:ALA:O	1:H:230:SER:CB	2.56	0.53
1:H:521:MET:HE2	1:H:525:GLU:HB3	1.90	0.53
1:K:229:ALA:O	1:K:230:SER:CB	2.56	0.53
1:K:364:ILE:HD12	1:K:419:ILE:HB	1.90	0.53
1:K:617:ARG:HG2	1:K:617:ARG:O	2.09	0.53
1:L:242:ARG:HB3	1:L:462:TYR:CE2	2.43	0.53
1:L:366:TYR:O	1:L:411:TYR:N	2.28	0.53
1:M:259:TYR:N	1:M:259:TYR:CD2	2.76	0.53
1:M:505:ILE:HD12	1:M:505:ILE:N	2.23	0.53
1:M:521:MET:HE2	1:M:525:GLU:HB3	1.90	0.53
1:O:207:ILE:CG2	1:O:210:ILE:HG12	2.38	0.53
1:A:245:LYS:HE2	1:O:515:GLU:OE1	2.08	0.53
1:A:512:ASP:HB3	1:A:515:GLU:HB2	1.91	0.53
1:A:633:LYS:O	1:A:636:ARG:HG2	2.09	0.53
1:B:659:ARG:HA	1:B:716:THR:O	2.08	0.53
1:F:385:LEU:HB2	1:F:391:LEU:HD11	1.91	0.53
1:G:251:ALA:HB1	1:G:258:ALA:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:505:ILE:N	1:G:505:ILE:HD12	2.23	0.53
1:G:633:LYS:O	1:G:636:ARG:HG2	2.09	0.53
1:H:512:ASP:HB3	1:H:515:GLU:HB2	1.91	0.53
1:H:633:LYS:O	1:H:636:ARG:HG2	2.09	0.53
1:I:505:ILE:HD12	1:I:505:ILE:N	2.23	0.53
1:I:617:ARG:O	1:I:617:ARG:HG2	2.09	0.53
1:I:659:ARG:HA	1:I:716:THR:O	2.08	0.53
1:J:364:ILE:HD12	1:J:419:ILE:HB	1.90	0.53
1:K:242:ARG:HB3	1:K:462:TYR:CE2	2.43	0.53
1:K:521:MET:HA	1:K:521:MET:CE	2.31	0.53
1:M:515:GLU:HG3	1:M:518:LYS:HD2	1.91	0.53
1:M:662:MET:HE2	1:M:681:TYR:HB3	1.90	0.53
1:O:659:ARG:HA	1:O:716:THR:O	2.08	0.53
1:A:207:ILE:CG2	1:A:210:ILE:HG12	2.39	0.53
1:B:242:ARG:HB3	1:B:462:TYR:CE2	2.43	0.53
1:B:617:ARG:HG2	1:B:617:ARG:O	2.09	0.53
1:D:631:ILE:HD12	1:D:674:THR:HG21	1.90	0.53
1:E:318:GLY:HA2	1:F:410:TYR:HE1	1.72	0.53
1:F:259:TYR:CD2	1:F:259:TYR:N	2.76	0.53
1:G:229:ALA:O	1:G:230:SER:CB	2.55	0.53
1:G:385:LEU:HB2	1:G:391:LEU:HD11	1.91	0.53
1:H:493:PHE:HA	1:H:591:ILE:O	2.07	0.53
1:H:659:ARG:HA	1:H:716:THR:O	2.08	0.53
1:I:207:ILE:CG2	1:I:210:ILE:HG12	2.39	0.53
1:J:207:ILE:CG2	1:J:210:ILE:HG12	2.39	0.53
1:J:642:TYR:HB2	1:J:665:ILE:CD1	2.27	0.53
1:M:251:ALA:HB1	1:M:258:ALA:HB2	1.90	0.53
1:M:271:LEU:HD21	1:M:360:LEU:HD13	1.89	0.53
1:M:332:VAL:HG23	1:M:448:LEU:H	1.73	0.53
1:O:505:ILE:N	1:O:505:ILE:HD12	2.23	0.53
1:A:183:ILE:HG22	1:A:188:GLU:HB2	1.91	0.53
1:A:242:ARG:HB3	1:A:462:TYR:CE2	2.43	0.53
1:A:670:GLN:CG	1:O:305:GLY:HA2	2.39	0.53
1:B:200:ARG:HG2	1:B:200:ARG:NH1	2.24	0.53
1:C:617:ARG:HG2	1:C:617:ARG:O	2.09	0.53
1:C:662:MET:HE2	1:C:681:TYR:HB3	1.90	0.53
1:F:207:ILE:CG2	1:F:210:ILE:HG12	2.39	0.53
1:F:261:ILE:O	1:F:369:THR:HG23	2.09	0.53
1:F:633:LYS:O	1:F:636:ARG:HG2	2.09	0.53
1:G:207:ILE:CG2	1:G:210:ILE:HG12	2.39	0.53
1:G:261:ILE:O	1:G:369:THR:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:477:TRP:HB3	1:J:481:LEU:HD12	1.90	0.53
1:J:631:ILE:HD12	1:J:674:THR:HG21	1.90	0.53
1:L:251:ALA:HB1	1:L:258:ALA:HB2	1.90	0.53
1:L:259:TYR:HA	1:L:477:TRP:CH2	2.44	0.53
1:L:631:ILE:HD12	1:L:674:THR:HG21	1.90	0.53
1:M:617:ARG:HG2	1:M:617:ARG:O	2.09	0.53
1:A:259:TYR:HA	1:A:477:TRP:CH2	2.44	0.53
1:A:617:ARG:O	1:A:617:ARG:HG2	2.08	0.53
1:B:207:ILE:CG2	1:B:210:ILE:HG12	2.39	0.53
1:C:259:TYR:HA	1:C:477:TRP:CH2	2.44	0.53
1:C:364:ILE:HD12	1:C:419:ILE:HB	1.90	0.53
1:D:200:ARG:HG2	1:D:200:ARG:NH1	2.24	0.53
1:E:200:ARG:HG2	1:E:200:ARG:NH1	2.24	0.53
1:E:505:ILE:HD12	1:E:505:ILE:N	2.23	0.53
1:E:521:MET:HE2	1:E:525:GLU:HB3	1.90	0.53
1:F:364:ILE:HD12	1:F:419:ILE:HB	1.90	0.53
1:G:521:MET:HE2	1:G:525:GLU:HB3	1.90	0.53
1:H:242:ARG:HB3	1:H:462:TYR:CE2	2.43	0.53
1:I:242:ARG:HB3	1:I:462:TYR:CE2	2.43	0.53
1:J:259:TYR:HA	1:J:477:TRP:CH2	2.44	0.53
1:J:633:LYS:O	1:J:636:ARG:HG2	2.09	0.53
1:K:251:ALA:HB1	1:K:258:ALA:HB2	1.90	0.53
1:K:385:LEU:HB2	1:K:391:LEU:HD11	1.91	0.53
1:K:633:LYS:O	1:K:636:ARG:HG2	2.09	0.53
1:L:659:ARG:HA	1:L:716:THR:O	2.08	0.53
1:M:181:ASP:OD1	1:M:182:GLY:N	2.41	0.53
1:M:261:ILE:O	1:M:369:THR:HG23	2.09	0.53
1:O:385:LEU:HB2	1:O:391:LEU:HD11	1.91	0.53
1:O:512:ASP:HB3	1:O:515:GLU:HB2	1.91	0.53
1:A:200:ARG:HG2	1:A:200:ARG:NH1	2.24	0.53
1:B:183:ILE:HG22	1:B:188:GLU:HB2	1.91	0.53
1:B:261:ILE:O	1:B:369:THR:HG23	2.09	0.53
1:B:266:MET:CA	1:B:364:ILE:HG22	2.35	0.53
1:C:385:LEU:HB2	1:C:391:LEU:HD11	1.91	0.53
1:D:411:TYR:CD2	1:D:412:PRO:HD3	2.44	0.53
1:D:512:ASP:OD1	1:E:245:LYS:HE3	2.09	0.53
1:D:633:LYS:O	1:D:636:ARG:HG2	2.09	0.53
1:F:183:ILE:HG22	1:F:188:GLU:HB2	1.91	0.53
1:F:512:ASP:HB3	1:F:515:GLU:HB2	1.91	0.53
1:H:251:ALA:HB1	1:H:258:ALA:HB2	1.90	0.53
1:H:505:ILE:HD12	1:H:505:ILE:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:364:ILE:HD12	1:I:364:ILE:O	2.08	0.53
1:J:183:ILE:HG22	1:J:188:GLU:HB2	1.91	0.53
1:L:521:MET:HE2	1:L:525:GLU:HB3	1.90	0.53
1:L:633:LYS:O	1:L:636:ARG:HG2	2.09	0.53
1:L:662:MET:HE2	1:L:681:TYR:HB3	1.90	0.53
1:M:229:ALA:O	1:M:230:SER:CB	2.55	0.53
1:M:364:ILE:HD12	1:M:364:ILE:O	2.08	0.53
1:M:659:ARG:HA	1:M:716:THR:O	2.08	0.53
1:O:183:ILE:HG22	1:O:188:GLU:HB2	1.91	0.53
1:O:411:TYR:CD2	1:O:412:PRO:HD3	2.44	0.53
1:A:659:ARG:HA	1:A:716:THR:O	2.09	0.53
1:B:642:TYR:HB2	1:B:665:ILE:CD1	2.27	0.53
1:C:206:TRP:HA	1:C:206:TRP:CE3	2.44	0.53
1:D:261:ILE:O	1:D:369:THR:HG23	2.09	0.53
1:E:261:ILE:O	1:E:369:THR:HG23	2.09	0.53
1:E:512:ASP:HB3	1:E:515:GLU:HB2	1.91	0.53
1:E:662:MET:HE2	1:E:681:TYR:HB3	1.90	0.53
1:F:515:GLU:HG3	1:F:518:LYS:HD2	1.90	0.53
1:F:659:ARG:HA	1:F:716:THR:O	2.08	0.53
1:G:199:LYS:HB2	1:M:189:VAL:HG13	1.91	0.53
1:G:512:ASP:HB3	1:G:515:GLU:HB2	1.91	0.53
1:J:251:ALA:HB1	1:J:258:ALA:HB2	1.90	0.53
1:J:266:MET:CA	1:J:364:ILE:HG22	2.35	0.53
1:J:512:ASP:HB3	1:J:515:GLU:HB2	1.91	0.53
1:K:259:TYR:HA	1:K:477:TRP:CH2	2.44	0.53
1:K:477:TRP:HB3	1:K:481:LEU:HD12	1.90	0.53
1:A:364:ILE:HD12	1:A:419:ILE:HB	1.90	0.53
1:B:493:PHE:HA	1:B:591:ILE:O	2.07	0.53
1:D:515:GLU:HG3	1:D:518:LYS:HD2	1.90	0.53
1:E:631:ILE:HD12	1:E:674:THR:HG21	1.90	0.53
1:F:251:ALA:HB1	1:F:258:ALA:HB2	1.90	0.53
1:G:332:VAL:HG23	1:G:448:LEU:H	1.73	0.53
1:H:261:ILE:O	1:H:369:THR:HG23	2.09	0.53
1:H:617:ARG:HG2	1:H:617:ARG:O	2.09	0.53
1:I:515:GLU:HG3	1:I:518:LYS:HD2	1.90	0.53
1:J:305:GLY:HA2	1:K:670:GLN:CG	2.39	0.53
1:L:332:VAL:HG23	1:L:448:LEU:H	1.73	0.53
1:O:206:TRP:HA	1:O:206:TRP:CE3	2.44	0.53
1:O:261:ILE:O	1:O:369:THR:HG23	2.09	0.53
1:O:521:MET:HE2	1:O:525:GLU:HB3	1.90	0.53
1:A:251:ALA:HB1	1:A:258:ALA:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:385:LEU:HB2	1:A:391:LEU:HD11	1.91	0.53
1:B:631:ILE:HD12	1:B:674:THR:HG21	1.90	0.53
1:E:259:TYR:HA	1:E:477:TRP:CH2	2.44	0.53
1:F:206:TRP:HA	1:F:206:TRP:CE3	2.44	0.53
1:F:505:ILE:HD12	1:F:505:ILE:N	2.23	0.53
1:G:240:THR:O	1:M:513:PRO:HB2	2.09	0.53
1:H:183:ILE:HG22	1:H:188:GLU:HB2	1.91	0.53
1:H:364:ILE:HD12	1:H:419:ILE:HB	1.90	0.53
1:H:411:TYR:CD2	1:H:412:PRO:HD3	2.44	0.53
1:I:200:ARG:HG2	1:I:200:ARG:NH1	2.24	0.53
1:I:332:VAL:HG23	1:I:448:LEU:H	1.73	0.53
1:I:662:MET:HE2	1:I:681:TYR:HB3	1.90	0.53
1:J:332:VAL:HG23	1:J:448:LEU:H	1.73	0.53
1:L:411:TYR:CD2	1:L:412:PRO:HD3	2.44	0.53
1:L:493:PHE:HA	1:L:591:ILE:O	2.07	0.53
1:M:411:TYR:CD2	1:M:412:PRO:HD3	2.44	0.53
1:O:332:VAL:HG23	1:O:448:LEU:H	1.73	0.53
1:B:330:SER:OG	1:B:450:LEU:HB2	2.07	0.52
1:B:505:ILE:N	1:B:505:ILE:HD12	2.23	0.52
1:C:631:ILE:HD12	1:C:674:THR:HG21	1.90	0.52
1:D:659:ARG:HA	1:D:716:THR:O	2.08	0.52
1:F:259:TYR:HA	1:F:477:TRP:CH2	2.44	0.52
1:F:631:ILE:HD12	1:F:674:THR:HG21	1.90	0.52
1:G:413:SER:O	1:G:415:ASN:N	2.43	0.52
1:H:416:LEU:O	1:H:418:PRO:HD3	2.09	0.52
1:J:662:MET:HE2	1:J:681:TYR:HB3	1.90	0.52
1:K:206:TRP:HA	1:K:206:TRP:CE3	2.44	0.52
1:K:416:LEU:O	1:K:418:PRO:HD3	2.09	0.52
1:K:600:ARG:HG2	1:K:600:ARG:HH11	1.74	0.52
1:L:259:TYR:CD2	1:L:259:TYR:N	2.76	0.52
1:L:261:ILE:O	1:L:369:THR:HG23	2.09	0.52
1:M:259:TYR:HA	1:M:477:TRP:CH2	2.44	0.52
1:M:416:LEU:O	1:M:418:PRO:HD3	2.09	0.52
1:O:200:ARG:HG2	1:O:200:ARG:NH1	2.24	0.52
1:O:242:ARG:HB3	1:O:462:TYR:CE2	2.43	0.52
1:O:633:LYS:O	1:O:636:ARG:HG2	2.09	0.52
1:A:332:VAL:HG23	1:A:448:LEU:H	1.73	0.52
1:B:365:ARG:CZ	1:B:418:PRO:HG3	2.40	0.52
1:D:207:ILE:CG2	1:D:210:ILE:HG12	2.39	0.52
1:D:259:TYR:CD2	1:D:259:TYR:N	2.76	0.52
1:F:521:MET:HE2	1:F:525:GLU:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:515:GLU:HG3	1:G:518:LYS:HD2	1.90	0.52
1:H:413:SER:O	1:H:415:ASN:N	2.43	0.52
1:I:364:ILE:HD12	1:I:419:ILE:HB	1.90	0.52
1:I:416:LEU:O	1:I:418:PRO:HD3	2.09	0.52
1:I:631:ILE:HD12	1:I:674:THR:HG21	1.90	0.52
1:K:332:VAL:HG23	1:K:448:LEU:H	1.73	0.52
1:K:515:GLU:HG3	1:K:518:LYS:HD2	1.90	0.52
1:L:206:TRP:HA	1:L:206:TRP:CE3	2.44	0.52
1:M:364:ILE:HD12	1:M:419:ILE:HB	1.90	0.52
1:M:512:ASP:HB3	1:M:515:GLU:HB2	1.90	0.52
1:M:600:ARG:HG2	1:M:600:ARG:HH11	1.74	0.52
1:M:633:LYS:O	1:M:636:ARG:HG2	2.09	0.52
1:O:515:GLU:HG3	1:O:518:LYS:HD2	1.90	0.52
1:A:505:ILE:N	1:A:505:ILE:HD12	2.23	0.52
1:B:411:TYR:CD2	1:B:412:PRO:HD3	2.44	0.52
1:C:183:ILE:HG22	1:C:188:GLU:HB2	1.91	0.52
1:C:207:ILE:CG2	1:C:210:ILE:HG12	2.39	0.52
1:D:183:ILE:HG22	1:D:188:GLU:HB2	1.91	0.52
1:D:385:LEU:HB2	1:D:391:LEU:HD11	1.91	0.52
1:E:411:TYR:CD2	1:E:412:PRO:HD3	2.44	0.52
1:E:413:SER:O	1:E:415:ASN:N	2.43	0.52
1:F:413:SER:O	1:F:415:ASN:N	2.43	0.52
1:F:416:LEU:O	1:F:418:PRO:HD3	2.09	0.52
1:F:617:ARG:O	1:F:617:ARG:HG2	2.09	0.52
1:I:251:ALA:HB1	1:I:258:ALA:HB2	1.90	0.52
1:I:512:ASP:HB3	1:I:515:GLU:HB2	1.91	0.52
1:I:633:LYS:O	1:I:636:ARG:HG2	2.09	0.52
1:J:600:ARG:HG2	1:J:600:ARG:HH11	1.74	0.52
1:K:189:VAL:HG13	1:L:199:LYS:HB2	1.91	0.52
1:K:261:ILE:O	1:K:369:THR:HG23	2.09	0.52
1:L:477:TRP:HB3	1:L:481:LEU:HD12	1.90	0.52
1:O:617:ARG:O	1:O:617:ARG:HG2	2.09	0.52
1:B:416:LEU:O	1:B:418:PRO:HD3	2.09	0.52
1:B:477:TRP:HB3	1:B:481:LEU:HD12	1.90	0.52
1:C:477:TRP:HB3	1:C:481:LEU:HD12	1.90	0.52
1:D:512:ASP:HB3	1:D:515:GLU:HB2	1.90	0.52
1:D:617:ARG:O	1:D:617:ARG:HG2	2.09	0.52
1:E:206:TRP:CE3	1:E:206:TRP:HA	2.44	0.52
1:F:395:LYS:O	1:F:396:ALA:C	2.53	0.52
1:I:600:ARG:HG2	1:I:600:ARG:HH11	1.74	0.52
1:J:505:ILE:N	1:J:505:ILE:HD12	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:617:ARG:O	1:J:617:ARG:HG2	2.09	0.52
1:K:411:TYR:CD2	1:K:412:PRO:HD3	2.44	0.52
1:O:662:MET:HE2	1:O:681:TYR:HB3	1.90	0.52
1:A:199:LYS:O	1:O:517:THR:HG23	2.10	0.52
1:A:261:ILE:O	1:A:369:THR:HG23	2.09	0.52
1:C:521:MET:HA	1:C:521:MET:CE	2.31	0.52
1:E:416:LEU:O	1:E:418:PRO:HD3	2.09	0.52
1:E:477:TRP:HB3	1:E:481:LEU:HD12	1.90	0.52
1:E:515:GLU:HG3	1:E:518:LYS:HD2	1.90	0.52
1:F:366:TYR:O	1:F:411:TYR:N	2.28	0.52
1:F:411:TYR:CD2	1:F:412:PRO:HD3	2.44	0.52
1:G:200:ARG:HG2	1:G:200:ARG:NH1	2.24	0.52
1:G:617:ARG:O	1:G:617:ARG:HG2	2.09	0.52
1:H:259:TYR:HA	1:H:477:TRP:CH2	2.44	0.52
1:H:541:GLN:HB2	1:H:545:LYS:O	2.10	0.52
1:I:385:LEU:HB2	1:I:391:LEU:HD11	1.91	0.52
1:I:413:SER:O	1:I:415:ASN:N	2.43	0.52
1:M:207:ILE:CG2	1:M:210:ILE:HG12	2.39	0.52
1:O:600:ARG:HG2	1:O:600:ARG:HH11	1.74	0.52
1:A:411:TYR:CD2	1:A:412:PRO:HD3	2.44	0.52
1:B:259:TYR:HA	1:B:477:TRP:CH2	2.44	0.52
1:B:636:ARG:HH21	1:B:674:THR:HG23	1.75	0.52
1:C:261:ILE:O	1:C:369:THR:HG23	2.09	0.52
1:C:513:PRO:HB2	1:D:240:THR:O	2.10	0.52
1:C:600:ARG:HH11	1:C:600:ARG:HG2	1.74	0.52
1:D:259:TYR:HA	1:D:477:TRP:CH2	2.44	0.52
1:G:224:GLU:OE2	1:H:201:THR:HG23	2.10	0.52
1:G:541:GLN:HB2	1:G:545:LYS:O	2.10	0.52
1:H:206:TRP:CE3	1:H:206:TRP:HA	2.44	0.52
1:H:259:TYR:N	1:H:259:TYR:CD2	2.76	0.52
1:H:337:SER:HA	1:H:661:ASP:HB2	1.92	0.52
1:J:261:ILE:O	1:J:369:THR:HG23	2.09	0.52
1:J:395:LYS:O	1:J:396:ALA:C	2.53	0.52
1:J:541:GLN:HB2	1:J:545:LYS:O	2.10	0.52
1:K:183:ILE:HG22	1:K:188:GLU:HB2	1.91	0.52
1:L:183:ILE:HG22	1:L:188:GLU:HB2	1.91	0.52
1:L:364:ILE:HD12	1:L:419:ILE:HB	1.90	0.52
1:L:512:ASP:HB3	1:L:515:GLU:HB2	1.91	0.52
1:M:200:ARG:HG2	1:M:200:ARG:NH1	2.24	0.52
1:M:631:ILE:HD12	1:M:674:THR:HG21	1.90	0.52
1:A:337:SER:HA	1:A:661:ASP:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:636:ARG:HH21	1:A:674:THR:HG23	1.75	0.52
1:B:385:LEU:HB2	1:B:391:LEU:HD11	1.91	0.52
1:C:416:LEU:O	1:C:418:PRO:HD3	2.09	0.52
1:C:512:ASP:HB3	1:C:515:GLU:HB2	1.91	0.52
1:C:515:GLU:HG3	1:C:518:LYS:HD2	1.90	0.52
1:D:206:TRP:HA	1:D:206:TRP:CE3	2.44	0.52
1:E:617:ARG:HG2	1:E:617:ARG:O	2.09	0.52
1:F:318:GLY:CA	1:O:410:TYR:CE1	2.93	0.52
1:F:541:GLN:HB2	1:F:545:LYS:O	2.10	0.52
1:G:259:TYR:HA	1:G:477:TRP:CH2	2.44	0.52
1:I:206:TRP:HA	1:I:206:TRP:CE3	2.44	0.52
1:I:259:TYR:HA	1:I:477:TRP:CH2	2.44	0.52
1:I:636:ARG:HH21	1:I:674:THR:HG23	1.75	0.52
1:K:207:ILE:CG2	1:K:210:ILE:HG12	2.39	0.52
1:K:259:TYR:N	1:K:259:TYR:CD2	2.76	0.52
1:K:413:SER:O	1:K:415:ASN:N	2.43	0.52
1:K:662:MET:HE2	1:K:681:TYR:HB3	1.90	0.52
1:L:337:SER:HA	1:L:661:ASP:HB2	1.92	0.52
1:L:617:ARG:O	1:L:617:ARG:HG2	2.09	0.52
1:M:636:ARG:HH21	1:M:674:THR:HG23	1.75	0.52
1:O:365:ARG:CZ	1:O:418:PRO:HG3	2.40	0.52
1:A:600:ARG:HG2	1:A:600:ARG:HH11	1.74	0.52
1:C:633:LYS:O	1:C:636:ARG:HG2	2.09	0.52
1:D:600:ARG:HG2	1:D:600:ARG:HH11	1.74	0.52
1:E:494:ASN:OD1	1:E:592:ARG:HA	2.10	0.52
1:F:521:MET:HA	1:F:521:MET:CE	2.31	0.52
1:G:395:LYS:O	1:G:396:ALA:C	2.53	0.52
1:G:411:TYR:CD2	1:G:412:PRO:HD3	2.44	0.52
1:H:200:ARG:HG2	1:H:200:ARG:NH1	2.24	0.52
1:J:385:LEU:HB2	1:J:391:LEU:HD11	1.91	0.52
1:K:659:ARG:HA	1:K:716:THR:O	2.08	0.52
1:L:207:ILE:CG2	1:L:210:ILE:HG12	2.39	0.52
1:L:600:ARG:HG2	1:L:600:ARG:HH11	1.74	0.52
1:O:259:TYR:HA	1:O:477:TRP:CH2	2.44	0.52
1:O:364:ILE:HD12	1:O:419:ILE:HB	1.90	0.52
1:O:472:ASP:C	1:O:474:GLY:H	2.18	0.52
1:C:541:GLN:HB2	1:C:545:LYS:O	2.10	0.52
1:D:477:TRP:HB3	1:D:481:LEU:HD12	1.90	0.52
1:D:605:VAL:CG1	1:D:704:GLU:HB3	2.40	0.52
1:E:207:ILE:CG2	1:E:210:ILE:HG12	2.39	0.52
1:E:633:LYS:O	1:E:636:ARG:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:337:SER:HA	1:G:661:ASP:HB2	1.92	0.52
1:I:183:ILE:HG22	1:I:188:GLU:HB2	1.91	0.52
1:I:605:VAL:CG1	1:I:704:GLU:HB3	2.40	0.52
1:J:413:SER:O	1:J:415:ASN:N	2.43	0.52
1:J:416:LEU:O	1:J:418:PRO:HD3	2.09	0.52
1:J:515:GLU:HG3	1:J:518:LYS:HD2	1.90	0.52
1:L:385:LEU:HB2	1:L:391:LEU:HD11	1.91	0.52
1:L:515:GLU:HG3	1:L:518:LYS:HD2	1.90	0.52
1:M:413:SER:O	1:M:415:ASN:N	2.43	0.52
1:O:413:SER:O	1:O:415:ASN:N	2.43	0.52
1:A:395:LYS:O	1:A:396:ALA:C	2.53	0.52
1:B:494:ASN:OD1	1:B:592:ARG:HA	2.10	0.52
1:B:512:ASP:HB3	1:B:515:GLU:HB2	1.90	0.52
1:B:521:MET:HA	1:B:521:MET:CE	2.31	0.52
1:C:411:TYR:CD2	1:C:412:PRO:HD3	2.44	0.52
1:C:636:ARG:HH21	1:C:674:THR:HG23	1.75	0.52
1:E:259:TYR:N	1:E:259:TYR:CD2	2.76	0.52
1:G:364:ILE:HD12	1:G:419:ILE:HB	1.90	0.52
1:G:416:LEU:O	1:G:418:PRO:HD3	2.09	0.52
1:H:636:ARG:HH21	1:H:674:THR:HG23	1.75	0.52
1:I:261:ILE:O	1:I:369:THR:HG23	2.09	0.52
1:I:523:LEU:HA	1:I:583:LEU:HD11	1.92	0.52
1:J:365:ARG:CZ	1:J:418:PRO:HG3	2.40	0.52
1:J:366:TYR:O	1:J:411:TYR:N	2.27	0.52
1:K:439:PHE:CD1	1:K:439:PHE:C	2.88	0.52
1:K:631:ILE:HD12	1:K:674:THR:HG21	1.90	0.52
1:L:395:LYS:O	1:L:396:ALA:C	2.53	0.52
1:O:523:LEU:HA	1:O:583:LEU:HD11	1.92	0.52
1:O:636:ARG:HH21	1:O:674:THR:HG23	1.75	0.52
1:A:523:LEU:HA	1:A:583:LEU:HD11	1.92	0.51
1:A:541:GLN:HB2	1:A:545:LYS:O	2.10	0.51
1:B:523:LEU:HA	1:B:583:LEU:HD11	1.92	0.51
1:B:584:ASN:H	1:B:587:MET:HE3	1.75	0.51
1:C:472:ASP:C	1:C:474:GLY:H	2.18	0.51
1:E:600:ARG:HG2	1:E:600:ARG:HH11	1.74	0.51
1:E:636:ARG:HH21	1:E:674:THR:HG23	1.75	0.51
1:G:183:ILE:HG22	1:G:188:GLU:HB2	1.91	0.51
1:G:472:ASP:C	1:G:474:GLY:H	2.18	0.51
1:G:631:ILE:HD12	1:G:674:THR:HG21	1.90	0.51
1:H:494:ASN:OD1	1:H:592:ARG:HA	2.10	0.51
1:J:206:TRP:HA	1:J:206:TRP:CE3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:305:GLY:HA2	1:K:670:GLN:HG3	1.92	0.51
1:L:413:SER:O	1:L:415:ASN:N	2.43	0.51
1:L:416:LEU:O	1:L:418:PRO:HD3	2.09	0.51
1:L:642:TYR:CE2	1:L:666:SER:HB3	2.46	0.51
1:M:385:LEU:HB2	1:M:391:LEU:HD11	1.91	0.51
1:B:395:LYS:O	1:B:396:ALA:C	2.53	0.51
1:C:605:VAL:CG1	1:C:704:GLU:HB3	2.40	0.51
1:D:305:GLY:HA2	1:E:670:GLN:NE2	2.25	0.51
1:D:541:GLN:HB2	1:D:545:LYS:O	2.10	0.51
1:E:365:ARG:CZ	1:E:418:PRO:HG3	2.40	0.51
1:E:395:LYS:O	1:E:396:ALA:C	2.53	0.51
1:G:365:ARG:CZ	1:G:418:PRO:HG3	2.40	0.51
1:G:600:ARG:HG2	1:G:600:ARG:HH11	1.74	0.51
1:I:337:SER:HA	1:I:661:ASP:HB2	1.92	0.51
1:I:439:PHE:CD1	1:I:439:PHE:C	2.89	0.51
1:J:318:GLY:HA3	1:K:410:TYR:HE1	1.74	0.51
1:J:411:TYR:CD2	1:J:412:PRO:HD3	2.44	0.51
1:J:523:LEU:HA	1:J:583:LEU:HD11	1.92	0.51
1:K:337:SER:HA	1:K:661:ASP:HB2	1.92	0.51
1:K:541:GLN:HB2	1:K:545:LYS:O	2.10	0.51
1:L:494:ASN:OD1	1:L:592:ARG:HA	2.10	0.51
1:M:337:SER:HA	1:M:661:ASP:HB2	1.92	0.51
1:M:395:LYS:O	1:M:396:ALA:C	2.53	0.51
1:A:206:TRP:HA	1:A:206:TRP:CE3	2.44	0.51
1:A:365:ARG:CZ	1:A:418:PRO:HG3	2.40	0.51
1:A:401:LEU:C	1:A:401:LEU:HD12	2.36	0.51
1:A:413:SER:O	1:A:415:ASN:N	2.43	0.51
1:A:416:LEU:O	1:A:418:PRO:HD3	2.09	0.51
1:A:472:ASP:C	1:A:474:GLY:H	2.18	0.51
1:B:337:SER:HA	1:B:661:ASP:HB2	1.92	0.51
1:B:633:LYS:O	1:B:636:ARG:HG2	2.09	0.51
1:C:401:LEU:C	1:C:401:LEU:HD12	2.36	0.51
1:E:385:LEU:HB2	1:E:391:LEU:HD11	1.91	0.51
1:E:466:ASN:OD1	1:E:468:ARG:N	2.44	0.51
1:F:605:VAL:CG1	1:F:704:GLU:HB3	2.40	0.51
1:G:642:TYR:CE2	1:G:666:SER:HB3	2.46	0.51
1:H:523:LEU:HA	1:H:583:LEU:HD11	1.92	0.51
1:I:505:ILE:HG22	1:I:506:ALA:N	2.26	0.51
1:J:439:PHE:C	1:J:439:PHE:CD1	2.88	0.51
1:K:472:ASP:C	1:K:474:GLY:H	2.18	0.51
1:K:605:VAL:CG1	1:K:704:GLU:HB3	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:365:ARG:CZ	1:L:418:PRO:HG3	2.40	0.51
1:L:605:VAL:CG1	1:L:704:GLU:HB3	2.40	0.51
1:M:183:ILE:HG22	1:M:188:GLU:HB2	1.91	0.51
1:M:206:TRP:CE3	1:M:206:TRP:HA	2.44	0.51
1:M:494:ASN:OD1	1:M:592:ARG:HA	2.10	0.51
1:M:605:VAL:CG1	1:M:704:GLU:HB3	2.40	0.51
1:O:259:TYR:CD2	1:O:259:TYR:N	2.76	0.51
1:O:541:GLN:HB2	1:O:545:LYS:O	2.10	0.51
1:O:605:VAL:CG1	1:O:704:GLU:HB3	2.40	0.51
1:B:206:TRP:CE3	1:B:206:TRP:HA	2.44	0.51
1:C:337:SER:HA	1:C:661:ASP:HB2	1.92	0.51
1:D:337:SER:HA	1:D:661:ASP:HB2	1.92	0.51
1:D:439:PHE:CD1	1:D:439:PHE:C	2.89	0.51
1:E:505:ILE:HG22	1:E:506:ALA:N	2.26	0.51
1:E:605:VAL:CG1	1:E:704:GLU:HB3	2.40	0.51
1:F:523:LEU:HA	1:F:583:LEU:HD11	1.92	0.51
1:H:366:TYR:O	1:H:411:TYR:N	2.27	0.51
1:I:224:GLU:OE2	1:J:201:THR:HG23	2.11	0.51
1:I:541:GLN:HB2	1:I:545:LYS:O	2.10	0.51
1:J:466:ASN:OD1	1:J:468:ARG:N	2.44	0.51
1:J:636:ARG:HH21	1:J:674:THR:HG23	1.75	0.51
1:K:494:ASN:OD1	1:K:592:ARG:HA	2.10	0.51
1:K:512:ASP:HB3	1:K:515:GLU:HB2	1.90	0.51
1:K:584:ASN:H	1:K:587:MET:HE3	1.75	0.51
1:M:266:MET:CA	1:M:364:ILE:HG22	2.35	0.51
1:M:466:ASN:OD1	1:M:468:ARG:N	2.44	0.51
1:O:416:LEU:O	1:O:418:PRO:HD3	2.09	0.51
1:A:521:MET:HA	1:A:521:MET:CE	2.31	0.51
1:A:605:VAL:CG1	1:A:704:GLU:HB3	2.40	0.51
1:B:413:SER:O	1:B:415:ASN:N	2.43	0.51
1:B:605:VAL:CG1	1:B:704:GLU:HB3	2.40	0.51
1:D:183:ILE:HD13	1:D:192:TYR:CZ	2.46	0.51
1:D:318:GLY:HA2	1:E:410:TYR:CE1	2.43	0.51
1:D:416:LEU:O	1:D:418:PRO:HD3	2.09	0.51
1:E:183:ILE:HD13	1:E:192:TYR:CZ	2.46	0.51
1:F:200:ARG:HG2	1:F:200:ARG:NH1	2.24	0.51
1:F:600:ARG:HG2	1:F:600:ARG:HH11	1.74	0.51
1:F:636:ARG:HH21	1:F:674:THR:HG23	1.75	0.51
1:G:636:ARG:HH21	1:G:674:THR:HG23	1.75	0.51
1:H:365:ARG:CZ	1:H:418:PRO:HG3	2.40	0.51
1:H:385:LEU:HB2	1:H:391:LEU:HD11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:403:GLN:HE21	1:H:403:GLN:N	2.04	0.51
1:I:365:ARG:CZ	1:I:418:PRO:HG3	2.40	0.51
1:J:494:ASN:OD1	1:J:592:ARG:HA	2.10	0.51
1:L:648:ASP:HB2	1:L:652:LEU:HD12	1.93	0.51
1:M:365:ARG:CZ	1:M:418:PRO:HG3	2.40	0.51
1:B:259:TYR:HD2	1:B:259:TYR:N	2.09	0.51
1:B:541:GLN:HB2	1:B:545:LYS:O	2.10	0.51
1:B:597:HIS:HB2	1:B:606:GLY:O	2.11	0.51
1:C:365:ARG:CZ	1:C:418:PRO:HG3	2.40	0.51
1:C:466:ASN:OD1	1:C:468:ARG:N	2.44	0.51
1:E:597:HIS:HB2	1:E:606:GLY:O	2.11	0.51
1:E:642:TYR:CE2	1:E:666:SER:HB3	2.45	0.51
1:F:494:ASN:OD1	1:F:592:ARG:HA	2.10	0.51
1:F:642:TYR:CE2	1:F:666:SER:HB3	2.45	0.51
1:G:183:ILE:HD13	1:G:192:TYR:CZ	2.46	0.51
1:H:600:ARG:HG2	1:H:600:ARG:HH11	1.74	0.51
1:I:266:MET:CA	1:I:364:ILE:HG22	2.35	0.51
1:I:584:ASN:H	1:I:587:MET:HE3	1.75	0.51
1:I:642:TYR:CE2	1:I:666:SER:HB3	2.45	0.51
1:K:183:ILE:HD13	1:K:192:TYR:CZ	2.46	0.51
1:K:365:ARG:CZ	1:K:418:PRO:HG3	2.40	0.51
1:K:401:LEU:C	1:K:401:LEU:HD12	2.36	0.51
1:K:636:ARG:HH21	1:K:674:THR:HG23	1.75	0.51
1:L:259:TYR:HD2	1:L:259:TYR:N	2.09	0.51
1:L:597:HIS:HB2	1:L:606:GLY:O	2.11	0.51
1:L:640:SER:HB2	1:L:706:THR:HG21	1.93	0.51
1:M:183:ILE:HD13	1:M:192:TYR:CZ	2.46	0.51
1:M:541:GLN:HB2	1:M:545:LYS:O	2.10	0.51
1:M:597:HIS:HB2	1:M:606:GLY:O	2.11	0.51
1:B:401:LEU:C	1:B:401:LEU:HD12	2.36	0.51
1:C:395:LYS:O	1:C:396:ALA:C	2.53	0.51
1:C:413:SER:O	1:C:415:ASN:N	2.43	0.51
1:C:494:ASN:OD1	1:C:592:ARG:HA	2.10	0.51
1:C:642:TYR:CE2	1:C:666:SER:HB3	2.46	0.51
1:D:401:LEU:C	1:D:401:LEU:HD12	2.36	0.51
1:D:413:SER:O	1:D:415:ASN:N	2.43	0.51
1:D:505:ILE:HG22	1:D:506:ALA:N	2.26	0.51
1:D:597:HIS:HB2	1:D:606:GLY:O	2.11	0.51
1:E:366:TYR:O	1:E:411:TYR:N	2.28	0.51
1:F:337:SER:HA	1:F:661:ASP:HB2	1.92	0.51
1:F:472:ASP:C	1:F:474:GLY:H	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:479:GLU:OE1	1:O:470:ARG:HG3	2.10	0.51
1:F:505:ILE:HG22	1:F:506:ALA:N	2.26	0.51
1:G:258:ALA:HA	1:G:371:THR:HG1	1.75	0.51
1:G:439:PHE:CD1	1:G:439:PHE:C	2.89	0.51
1:I:395:LYS:O	1:I:396:ALA:C	2.53	0.51
1:I:401:LEU:C	1:I:401:LEU:HD12	2.36	0.51
1:I:411:TYR:CD2	1:I:412:PRO:HD3	2.44	0.51
1:J:183:ILE:HD13	1:J:192:TYR:CZ	2.46	0.51
1:J:259:TYR:HD2	1:J:259:TYR:N	2.09	0.51
1:M:505:ILE:HG22	1:M:506:ALA:N	2.26	0.51
1:O:466:ASN:OD1	1:O:468:ARG:N	2.44	0.51
1:B:466:ASN:OD1	1:B:468:ARG:N	2.44	0.51
1:C:183:ILE:HD13	1:C:192:TYR:CZ	2.46	0.51
1:C:523:LEU:HA	1:C:583:LEU:HD11	1.92	0.51
1:D:642:TYR:CE2	1:D:666:SER:HB3	2.46	0.51
1:E:472:ASP:C	1:E:474:GLY:H	2.18	0.51
1:G:403:GLN:HE21	1:G:403:GLN:N	2.05	0.51
1:H:224:GLU:OE2	1:I:201:THR:HG23	2.10	0.51
1:I:224:GLU:OE2	1:J:201:THR:N	2.44	0.51
1:I:472:ASP:C	1:I:474:GLY:H	2.18	0.51
1:I:494:ASN:OD1	1:I:592:ARG:HA	2.10	0.51
1:J:200:ARG:HG2	1:J:200:ARG:NH1	2.24	0.51
1:K:194:VAL:HG22	1:K:203:LEU:HD13	1.93	0.51
1:L:505:ILE:HG22	1:L:506:ALA:N	2.26	0.51
1:M:401:LEU:C	1:M:401:LEU:HD12	2.36	0.51
1:O:439:PHE:CD1	1:O:439:PHE:C	2.89	0.51
1:O:584:ASN:H	1:O:587:MET:HE3	1.75	0.51
1:B:183:ILE:HD13	1:B:192:TYR:CZ	2.46	0.51
1:B:439:PHE:C	1:B:439:PHE:CD1	2.89	0.51
1:B:600:ARG:HG2	1:B:600:ARG:HH11	1.74	0.51
1:C:259:TYR:N	1:C:259:TYR:CD2	2.76	0.51
1:E:318:GLY:CA	1:F:410:TYR:HE1	2.24	0.51
1:G:206:TRP:HA	1:G:206:TRP:CE3	2.44	0.51
1:G:224:GLU:OE2	1:H:201:THR:N	2.44	0.51
1:G:401:LEU:HD12	1:G:401:LEU:C	2.36	0.51
1:H:505:ILE:HG22	1:H:506:ALA:N	2.26	0.51
1:J:401:LEU:C	1:J:401:LEU:HD12	2.36	0.51
1:J:605:VAL:CG1	1:J:704:GLU:HB3	2.40	0.51
1:L:183:ILE:HD13	1:L:192:TYR:CZ	2.46	0.51
1:L:401:LEU:C	1:L:401:LEU:HD12	2.36	0.51
1:L:479:GLU:OE1	1:M:470:ARG:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:456:TYR:N	1:M:456:TYR:CD2	2.79	0.51
1:M:472:ASP:C	1:M:474:GLY:H	2.18	0.51
1:O:395:LYS:O	1:O:396:ALA:C	2.53	0.51
1:A:642:TYR:CE2	1:A:666:SER:HB3	2.45	0.51
1:C:648:ASP:HB2	1:C:652:LEU:HD12	1.93	0.51
1:D:185:ASP:O	1:D:186:SER:C	2.54	0.51
1:D:494:ASN:OD1	1:D:592:ARG:HA	2.10	0.51
1:E:183:ILE:HG22	1:E:188:GLU:HB2	1.91	0.51
1:E:194:VAL:HG22	1:E:203:LEU:HD13	1.93	0.51
1:F:365:ARG:CZ	1:F:418:PRO:HG3	2.40	0.51
1:G:411:TYR:CB	1:G:412:PRO:CD	2.89	0.51
1:H:401:LEU:C	1:H:401:LEU:HD12	2.36	0.51
1:H:597:HIS:HB2	1:H:606:GLY:O	2.11	0.51
1:H:605:VAL:CG1	1:H:704:GLU:HB3	2.40	0.51
1:H:642:TYR:CE2	1:H:666:SER:HB3	2.45	0.51
1:J:640:SER:HB2	1:J:706:THR:HG21	1.93	0.51
1:M:523:LEU:HA	1:M:583:LEU:HD11	1.92	0.51
1:M:642:TYR:CE2	1:M:666:SER:HB3	2.45	0.51
1:A:185:ASP:O	1:A:186:SER:C	2.54	0.50
1:B:224:GLU:OE2	1:C:201:THR:N	2.39	0.50
1:B:472:ASP:C	1:B:474:GLY:H	2.18	0.50
1:D:523:LEU:HA	1:D:583:LEU:HD11	1.92	0.50
1:D:640:SER:HB2	1:D:706:THR:HG21	1.93	0.50
1:F:185:ASP:O	1:F:186:SER:C	2.54	0.50
1:F:439:PHE:CD1	1:F:439:PHE:C	2.89	0.50
1:F:456:TYR:CD2	1:F:456:TYR:N	2.79	0.50
1:G:494:ASN:OD1	1:G:592:ARG:HA	2.10	0.50
1:H:395:LYS:O	1:H:396:ALA:C	2.53	0.50
1:I:259:TYR:HD2	1:I:259:TYR:N	2.09	0.50
1:I:382:SER:HB3	1:I:393:THR:HG22	1.94	0.50
1:J:337:SER:HA	1:J:661:ASP:HB2	1.92	0.50
1:K:395:LYS:O	1:K:396:ALA:C	2.53	0.50
1:M:439:PHE:C	1:M:439:PHE:CD1	2.89	0.50
1:O:337:SER:HA	1:O:661:ASP:HB2	1.92	0.50
1:O:642:TYR:CE2	1:O:666:SER:HB3	2.46	0.50
1:A:183:ILE:HD13	1:A:192:TYR:CZ	2.46	0.50
1:A:494:ASN:OD1	1:A:592:ARG:HA	2.10	0.50
1:A:505:ILE:HG22	1:A:506:ALA:N	2.26	0.50
1:B:411:TYR:CB	1:B:412:PRO:CD	2.89	0.50
1:B:640:SER:HB2	1:B:706:THR:HG21	1.93	0.50
1:D:270:ILE:CG2	1:D:361:ASN:HB3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:480:VAL:CG2	1:F:468:ARG:HD3	2.41	0.50
1:F:183:ILE:HD13	1:F:192:TYR:CZ	2.46	0.50
1:G:201:THR:HG23	1:M:224:GLU:OE2	2.11	0.50
1:H:185:ASP:O	1:H:186:SER:C	2.54	0.50
1:H:270:ILE:CG2	1:H:361:ASN:HB3	2.42	0.50
1:H:642:TYR:HA	1:H:699:TYR:O	2.12	0.50
1:J:505:ILE:HG22	1:J:506:ALA:N	2.26	0.50
1:J:648:ASP:HB2	1:J:652:LEU:HD12	1.93	0.50
1:K:466:ASN:OD1	1:K:468:ARG:N	2.44	0.50
1:K:648:ASP:HB2	1:K:652:LEU:HD12	1.93	0.50
1:L:200:ARG:HG2	1:L:200:ARG:NH1	2.24	0.50
1:O:183:ILE:HD13	1:O:192:TYR:CZ	2.46	0.50
1:O:401:LEU:HD12	1:O:401:LEU:C	2.36	0.50
1:A:194:VAL:HG22	1:A:203:LEU:HD13	1.93	0.50
1:A:411:TYR:CB	1:A:412:PRO:CD	2.89	0.50
1:B:194:VAL:HG22	1:B:203:LEU:HD13	1.93	0.50
1:C:194:VAL:HG22	1:C:203:LEU:HD13	1.93	0.50
1:C:439:PHE:CD1	1:C:439:PHE:C	2.88	0.50
1:C:505:ILE:HG22	1:C:506:ALA:N	2.26	0.50
1:C:584:ASN:H	1:C:587:MET:HE3	1.75	0.50
1:C:597:HIS:HB2	1:C:606:GLY:O	2.11	0.50
1:E:401:LEU:C	1:E:401:LEU:HD12	2.36	0.50
1:F:640:SER:HB2	1:F:706:THR:HG21	1.93	0.50
1:G:194:VAL:HG22	1:G:203:LEU:HD13	1.93	0.50
1:G:382:SER:HB3	1:G:393:THR:HG22	1.93	0.50
1:G:605:VAL:CG1	1:G:704:GLU:HB3	2.40	0.50
1:H:439:PHE:CD1	1:H:439:PHE:C	2.89	0.50
1:I:648:ASP:HB2	1:I:652:LEU:HD12	1.93	0.50
1:J:382:SER:HB3	1:J:393:THR:HG22	1.93	0.50
1:K:178:ARG:NH1	1:L:200:ARG:HB3	2.26	0.50
1:L:456:TYR:CD2	1:L:456:TYR:N	2.79	0.50
1:L:472:ASP:C	1:L:474:GLY:H	2.18	0.50
1:L:541:GLN:HB2	1:L:545:LYS:O	2.10	0.50
1:M:640:SER:HB2	1:M:706:THR:HG21	1.93	0.50
1:B:642:TYR:CE2	1:B:666:SER:HB3	2.45	0.50
1:D:194:VAL:HG22	1:D:203:LEU:HD13	1.93	0.50
1:D:365:ARG:CZ	1:D:418:PRO:HG3	2.40	0.50
1:D:480:VAL:O	1:D:484:ILE:HD13	2.12	0.50
1:F:597:HIS:HB2	1:F:606:GLY:O	2.11	0.50
1:F:648:ASP:HB2	1:F:652:LEU:HD12	1.93	0.50
1:G:505:ILE:HG22	1:G:506:ALA:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:189:VAL:CG1	1:I:199:LYS:CG	2.90	0.50
1:H:466:ASN:OD1	1:H:468:ARG:N	2.44	0.50
1:J:411:TYR:CB	1:J:412:PRO:CD	2.89	0.50
1:J:597:HIS:HB2	1:J:606:GLY:O	2.11	0.50
1:J:642:TYR:CE2	1:J:666:SER:HB3	2.46	0.50
1:J:717:SER:C	1:J:719:ASN:H	2.20	0.50
1:K:270:ILE:CG2	1:K:361:ASN:HB3	2.42	0.50
1:K:523:LEU:HA	1:K:583:LEU:HD11	1.92	0.50
1:K:597:HIS:HB2	1:K:606:GLY:O	2.11	0.50
1:K:642:TYR:HA	1:K:699:TYR:O	2.12	0.50
1:L:194:VAL:HG22	1:L:203:LEU:HD13	1.93	0.50
1:L:270:ILE:CG2	1:L:361:ASN:HB3	2.42	0.50
1:L:636:ARG:HH21	1:L:674:THR:HG23	1.75	0.50
1:M:270:ILE:CG2	1:M:361:ASN:HB3	2.42	0.50
1:O:194:VAL:HG22	1:O:203:LEU:HD13	1.93	0.50
1:O:494:ASN:OD1	1:O:592:ARG:HA	2.10	0.50
1:O:505:ILE:HG22	1:O:506:ALA:N	2.26	0.50
1:O:521:MET:HA	1:O:521:MET:CE	2.31	0.50
1:A:318:GLY:HA2	1:B:410:TYR:CE1	2.46	0.50
1:A:466:ASN:OD1	1:A:468:ARG:N	2.44	0.50
1:C:717:SER:C	1:C:719:ASN:H	2.20	0.50
1:E:480:VAL:O	1:E:484:ILE:HD13	2.12	0.50
1:F:466:ASN:OD1	1:F:468:ARG:N	2.44	0.50
1:G:584:ASN:H	1:G:587:MET:HE3	1.75	0.50
1:G:648:ASP:HB2	1:G:652:LEU:HD12	1.93	0.50
1:I:194:VAL:HG22	1:I:203:LEU:HD13	1.93	0.50
1:I:309:VAL:N	1:J:668:LEU:O	2.45	0.50
1:I:456:TYR:CD2	1:I:456:TYR:N	2.79	0.50
1:I:597:HIS:HB2	1:I:606:GLY:O	2.11	0.50
1:J:456:TYR:N	1:J:456:TYR:CD2	2.79	0.50
1:K:640:SER:HB2	1:K:706:THR:HG21	1.93	0.50
1:L:185:ASP:O	1:L:186:SER:C	2.54	0.50
1:L:411:TYR:CB	1:L:412:PRO:CD	2.89	0.50
1:M:642:TYR:HA	1:M:699:TYR:O	2.12	0.50
1:M:648:ASP:HB2	1:M:652:LEU:HD12	1.93	0.50
1:O:185:ASP:O	1:O:186:SER:C	2.54	0.50
1:O:642:TYR:HA	1:O:699:TYR:O	2.12	0.50
1:C:270:ILE:CG2	1:C:361:ASN:HB3	2.42	0.50
1:E:439:PHE:C	1:E:439:PHE:CD1	2.89	0.50
1:E:523:LEU:HA	1:E:583:LEU:HD11	1.92	0.50
1:E:640:SER:HB2	1:E:706:THR:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:270:ILE:CG2	1:F:361:ASN:HB3	2.42	0.50
1:G:466:ASN:OD1	1:G:468:ARG:N	2.44	0.50
1:H:717:SER:C	1:H:719:ASN:H	2.20	0.50
1:I:183:ILE:HD13	1:I:192:TYR:CZ	2.46	0.50
1:I:466:ASN:OD1	1:I:468:ARG:N	2.44	0.50
1:J:521:MET:HA	1:J:521:MET:CE	2.31	0.50
1:K:642:TYR:CE2	1:K:666:SER:HB3	2.46	0.50
1:L:480:VAL:O	1:L:484:ILE:HD13	2.12	0.50
1:M:717:SER:C	1:M:719:ASN:H	2.20	0.50
1:O:480:VAL:O	1:O:484:ILE:HD13	2.12	0.50
1:O:640:SER:HB2	1:O:706:THR:HG21	1.93	0.50
1:A:439:PHE:CD1	1:A:439:PHE:C	2.88	0.50
1:C:642:TYR:HA	1:C:699:TYR:O	2.12	0.50
1:D:382:SER:HB3	1:D:393:THR:HG22	1.93	0.50
1:D:411:TYR:CB	1:D:412:PRO:CD	2.89	0.50
1:D:466:ASN:OD1	1:D:468:ARG:N	2.44	0.50
1:D:636:ARG:HH21	1:D:674:THR:HG23	1.75	0.50
1:F:401:LEU:C	1:F:401:LEU:HD12	2.36	0.50
1:H:183:ILE:HD13	1:H:192:TYR:CZ	2.46	0.50
1:H:382:SER:HB3	1:H:393:THR:HG22	1.93	0.50
1:J:319:SER:OG	1:K:414:LYS:HE3	2.12	0.50
1:L:466:ASN:OD1	1:L:468:ARG:N	2.44	0.50
1:L:523:LEU:HA	1:L:583:LEU:HD11	1.92	0.50
1:M:194:VAL:HG22	1:M:203:LEU:HD13	1.93	0.50
1:A:382:SER:HB3	1:A:393:THR:HG22	1.93	0.50
1:A:584:ASN:H	1:A:587:MET:HE3	1.75	0.50
1:B:270:ILE:CG2	1:B:361:ASN:HB3	2.42	0.50
1:B:717:SER:C	1:B:719:ASN:H	2.20	0.50
1:C:411:TYR:CB	1:C:412:PRO:CD	2.89	0.50
1:C:640:SER:HB2	1:C:706:THR:HG21	1.93	0.50
1:D:395:LYS:O	1:D:396:ALA:C	2.53	0.50
1:D:472:ASP:C	1:D:474:GLY:H	2.18	0.50
1:E:717:SER:C	1:E:719:ASN:H	2.20	0.50
1:F:480:VAL:O	1:F:484:ILE:HD13	2.12	0.50
1:G:597:HIS:HB2	1:G:606:GLY:O	2.11	0.50
1:G:642:TYR:HA	1:G:699:TYR:O	2.12	0.50
1:J:480:VAL:O	1:J:484:ILE:HD13	2.12	0.50
1:K:411:TYR:CB	1:K:412:PRO:CD	2.89	0.50
1:L:439:PHE:CD1	1:L:439:PHE:C	2.89	0.50
1:L:642:TYR:HA	1:L:699:TYR:O	2.12	0.50
1:M:185:ASP:O	1:M:186:SER:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:382:SER:HB3	1:M:393:THR:HG22	1.93	0.50
1:M:584:ASN:H	1:M:587:MET:HE3	1.75	0.50
1:O:366:TYR:O	1:O:411:TYR:N	2.27	0.50
1:O:411:TYR:CB	1:O:412:PRO:CD	2.89	0.50
1:O:456:TYR:N	1:O:456:TYR:CD2	2.79	0.50
1:O:597:HIS:HB2	1:O:606:GLY:O	2.11	0.50
1:B:185:ASP:O	1:B:186:SER:C	2.54	0.50
1:B:642:TYR:HA	1:B:699:TYR:O	2.12	0.50
1:E:270:ILE:CG2	1:E:361:ASN:HB3	2.42	0.50
1:E:337:SER:HA	1:E:661:ASP:HB2	1.92	0.50
1:E:521:MET:HA	1:E:521:MET:CE	2.31	0.50
1:E:584:ASN:H	1:E:587:MET:HE3	1.75	0.50
1:E:642:TYR:HA	1:E:699:TYR:O	2.12	0.50
1:F:194:VAL:HG22	1:F:203:LEU:HD13	1.93	0.50
1:G:398:GLU:C	1:G:400:GLN:H	2.20	0.50
1:H:480:VAL:CG2	1:I:468:ARG:HD3	2.42	0.50
1:H:584:ASN:H	1:H:587:MET:HE3	1.75	0.50
1:K:200:ARG:HG2	1:K:200:ARG:NH1	2.24	0.50
1:K:364:ILE:HD12	1:K:364:ILE:C	2.37	0.50
1:K:382:SER:HB3	1:K:393:THR:HG22	1.93	0.50
1:M:366:TYR:O	1:M:411:TYR:N	2.28	0.50
1:A:642:TYR:HA	1:A:699:TYR:O	2.12	0.49
1:B:421:LEU:O	1:B:422:ASN:C	2.55	0.49
1:B:505:ILE:HG22	1:B:506:ALA:N	2.26	0.49
1:C:398:GLU:C	1:C:400:GLN:H	2.20	0.49
1:D:648:ASP:HB2	1:D:652:LEU:HD12	1.93	0.49
1:G:270:ILE:CG2	1:G:361:ASN:HB3	2.42	0.49
1:I:185:ASP:O	1:I:186:SER:C	2.54	0.49
1:I:480:VAL:O	1:I:484:ILE:HD13	2.12	0.49
1:O:382:SER:HB3	1:O:393:THR:HG22	1.93	0.49
1:O:648:ASP:HB2	1:O:652:LEU:HD12	1.93	0.49
1:O:717:SER:C	1:O:719:ASN:H	2.20	0.49
1:A:364:ILE:HD12	1:A:364:ILE:C	2.37	0.49
1:C:480:VAL:O	1:C:484:ILE:HD13	2.12	0.49
1:E:382:SER:HB3	1:E:393:THR:HG22	1.93	0.49
1:F:259:TYR:HD2	1:F:259:TYR:N	2.09	0.49
1:G:185:ASP:O	1:G:186:SER:C	2.54	0.49
1:G:523:LEU:HA	1:G:583:LEU:HD11	1.92	0.49
1:I:364:ILE:HD12	1:I:364:ILE:C	2.37	0.49
1:I:640:SER:HB2	1:I:706:THR:HG21	1.93	0.49
1:J:270:ILE:CG2	1:J:361:ASN:HB3	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:364:ILE:HD12	1:J:364:ILE:C	2.37	0.49
1:J:403:GLN:HE21	1:J:403:GLN:N	2.04	0.49
1:J:421:LEU:O	1:J:422:ASN:C	2.55	0.49
1:L:226:TRP:HB2	1:M:466:ASN:O	2.12	0.49
1:L:717:SER:C	1:L:719:ASN:H	2.20	0.49
1:O:259:TYR:HD2	1:O:259:TYR:N	2.09	0.49
1:A:270:ILE:CG2	1:A:361:ASN:HB3	2.42	0.49
1:A:421:LEU:O	1:A:422:ASN:C	2.55	0.49
1:A:480:VAL:O	1:A:484:ILE:HD13	2.12	0.49
1:A:597:HIS:HB2	1:A:606:GLY:O	2.11	0.49
1:B:364:ILE:HD12	1:B:364:ILE:C	2.37	0.49
1:C:185:ASP:O	1:C:186:SER:C	2.54	0.49
1:D:259:TYR:HD2	1:D:259:TYR:N	2.09	0.49
1:D:364:ILE:HD12	1:D:364:ILE:C	2.37	0.49
1:D:398:GLU:C	1:D:400:GLN:H	2.20	0.49
1:D:459:ILE:HG22	1:D:460:ALA:N	2.28	0.49
1:E:398:GLU:C	1:E:400:GLN:H	2.20	0.49
1:F:717:SER:C	1:F:719:ASN:H	2.20	0.49
1:K:480:VAL:O	1:K:484:ILE:HD13	2.12	0.49
1:O:270:ILE:CG2	1:O:361:ASN:HB3	2.42	0.49
1:A:414:LYS:HG3	1:O:319:SER:N	2.27	0.49
1:A:459:ILE:HG22	1:A:460:ALA:N	2.28	0.49
1:A:648:ASP:HB2	1:A:652:LEU:HD12	1.93	0.49
1:B:401:LEU:HD22	1:B:411:TYR:CE1	2.48	0.49
1:B:648:ASP:HB2	1:B:652:LEU:HD12	1.93	0.49
1:D:421:LEU:O	1:D:422:ASN:C	2.55	0.49
1:D:456:TYR:N	1:D:456:TYR:CD2	2.79	0.49
1:D:584:ASN:H	1:D:587:MET:HE3	1.75	0.49
1:D:717:SER:C	1:D:719:ASN:H	2.20	0.49
1:E:648:ASP:HB2	1:E:652:LEU:HD12	1.93	0.49
1:G:364:ILE:HD12	1:G:364:ILE:C	2.37	0.49
1:G:480:VAL:O	1:G:484:ILE:HD13	2.12	0.49
1:G:717:SER:C	1:G:719:ASN:H	2.20	0.49
1:H:648:ASP:HB2	1:H:652:LEU:HD12	1.93	0.49
1:J:272:SER:N	1:J:350:MET:HE3	2.28	0.49
1:J:459:ILE:HG22	1:J:460:ALA:N	2.28	0.49
1:M:272:SER:N	1:M:350:MET:HE3	2.28	0.49
1:M:411:TYR:CB	1:M:412:PRO:CD	2.89	0.49
1:A:683:ASP:C	1:A:685:LEU:H	2.21	0.49
1:B:398:GLU:C	1:B:400:GLN:H	2.20	0.49
1:D:366:TYR:O	1:D:411:TYR:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:541:GLN:HB2	1:E:545:LYS:O	2.10	0.49
1:F:398:GLU:C	1:F:400:GLN:H	2.20	0.49
1:F:401:LEU:HD22	1:F:411:TYR:CE1	2.48	0.49
1:F:642:TYR:HA	1:F:699:TYR:O	2.12	0.49
1:H:398:GLU:C	1:H:400:GLN:H	2.20	0.49
1:H:401:LEU:HD22	1:H:411:TYR:CE1	2.48	0.49
1:I:270:ILE:CG2	1:I:361:ASN:HB3	2.42	0.49
1:I:411:TYR:CB	1:I:412:PRO:CD	2.89	0.49
1:I:642:TYR:HA	1:I:699:TYR:O	2.11	0.49
1:I:717:SER:C	1:I:719:ASN:H	2.20	0.49
1:J:398:GLU:C	1:J:400:GLN:H	2.21	0.49
1:K:185:ASP:O	1:K:186:SER:C	2.54	0.49
1:A:717:SER:C	1:A:719:ASN:H	2.20	0.49
1:B:366:TYR:O	1:B:411:TYR:N	2.28	0.49
1:C:382:SER:HB3	1:C:393:THR:HG22	1.94	0.49
1:C:401:LEU:HD22	1:C:411:TYR:CE1	2.48	0.49
1:D:642:TYR:HA	1:D:699:TYR:O	2.12	0.49
1:E:698:VAL:HB	1:E:727:PHE:HB3	1.95	0.49
1:F:364:ILE:HD12	1:F:364:ILE:C	2.37	0.49
1:G:410:TYR:HE1	1:M:318:GLY:HA2	1.77	0.49
1:G:513:PRO:HG2	1:H:239:VAL:O	2.12	0.49
1:I:698:VAL:HB	1:I:727:PHE:HB3	1.95	0.49
1:J:472:ASP:C	1:J:474:GLY:H	2.18	0.49
1:J:683:ASP:C	1:J:685:LEU:H	2.21	0.49
1:J:725:LEU:HD23	1:J:725:LEU:C	2.38	0.49
1:K:272:SER:N	1:K:350:MET:HE3	2.28	0.49
1:L:459:ILE:HG22	1:L:460:ALA:N	2.27	0.49
1:M:480:VAL:O	1:M:484:ILE:HD13	2.12	0.49
1:O:725:LEU:HD23	1:O:725:LEU:C	2.38	0.49
1:A:189:VAL:HG13	1:B:199:LYS:CB	2.43	0.49
1:B:226:TRP:HB2	1:C:466:ASN:O	2.12	0.49
1:B:272:SER:N	1:B:350:MET:HE3	2.28	0.49
1:B:480:VAL:O	1:B:484:ILE:HD13	2.12	0.49
1:C:403:GLN:HE21	1:C:403:GLN:N	2.05	0.49
1:C:691:ASN:C	1:C:693:ASN:H	2.21	0.49
1:D:253:HIS:ND1	1:D:253:HIS:C	2.71	0.49
1:D:401:LEU:HD22	1:D:411:TYR:CE1	2.48	0.49
1:E:185:ASP:O	1:E:186:SER:C	2.54	0.49
1:E:253:HIS:C	1:E:253:HIS:ND1	2.71	0.49
1:E:421:LEU:O	1:E:422:ASN:C	2.55	0.49
1:F:421:LEU:O	1:F:422:ASN:C	2.55	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:421:LEU:O	1:G:422:ASN:C	2.55	0.49
1:G:640:SER:HB2	1:G:706:THR:HG21	1.93	0.49
1:H:472:ASP:C	1:H:474:GLY:H	2.18	0.49
1:K:403:GLN:HE21	1:K:403:GLN:N	2.04	0.49
1:K:459:ILE:HG22	1:K:460:ALA:N	2.28	0.49
1:K:480:VAL:O	1:K:480:VAL:HG12	2.13	0.49
1:K:505:ILE:HG22	1:K:506:ALA:N	2.26	0.49
1:K:717:SER:C	1:K:719:ASN:H	2.20	0.49
1:L:725:LEU:HD23	1:L:725:LEU:C	2.38	0.49
1:O:364:ILE:HD12	1:O:364:ILE:C	2.37	0.49
1:A:272:SER:N	1:A:350:MET:HE3	2.28	0.49
1:A:703:LYS:HA	1:A:706:THR:HG22	1.95	0.49
1:A:725:LEU:HD23	1:A:725:LEU:C	2.38	0.49
1:B:293:THR:HG22	1:B:334:ILE:HA	1.95	0.49
1:B:648:ASP:HB2	1:B:652:LEU:HB2	1.95	0.49
1:C:698:VAL:HB	1:C:727:PHE:HB3	1.95	0.49
1:H:643:ILE:HA	1:H:657:ASN:HD21	1.78	0.49
1:I:253:HIS:ND1	1:I:253:HIS:C	2.71	0.49
1:I:683:ASP:C	1:I:685:LEU:H	2.21	0.49
1:J:194:VAL:HG22	1:J:203:LEU:HD13	1.93	0.49
1:J:642:TYR:HA	1:J:699:TYR:O	2.12	0.49
1:J:698:VAL:HB	1:J:727:PHE:HB3	1.95	0.49
1:K:224:GLU:OE2	1:L:201:THR:N	2.46	0.49
1:K:401:LEU:HD22	1:K:411:TYR:CE1	2.48	0.49
1:K:456:TYR:CD2	1:K:456:TYR:N	2.79	0.49
1:K:683:ASP:C	1:K:685:LEU:H	2.21	0.49
1:K:703:LYS:HA	1:K:706:THR:HG22	1.95	0.49
1:L:258:ALA:HA	1:L:371:THR:HG1	1.75	0.49
1:L:364:ILE:HD12	1:L:364:ILE:C	2.37	0.49
1:L:421:LEU:O	1:L:422:ASN:C	2.55	0.49
1:L:698:VAL:HB	1:L:727:PHE:HB3	1.95	0.49
1:L:703:LYS:HA	1:L:706:THR:HG22	1.95	0.49
1:M:403:GLN:HE21	1:M:403:GLN:N	2.04	0.49
1:O:683:ASP:C	1:O:685:LEU:H	2.21	0.49
1:E:683:ASP:C	1:E:685:LEU:H	2.21	0.49
1:E:691:ASN:OD1	1:E:693:ASN:HB2	2.13	0.49
1:F:253:HIS:C	1:F:253:HIS:ND1	2.71	0.49
1:G:638:ILE:HG12	1:G:639:LEU:HD22	1.95	0.49
1:I:272:SER:N	1:I:350:MET:HE3	2.28	0.49
1:I:384:VAL:HG12	1:I:385:LEU:N	2.28	0.49
1:I:725:LEU:HD23	1:I:725:LEU:C	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:584:ASN:H	1:J:587:MET:HE3	1.75	0.49
1:K:698:VAL:HB	1:K:727:PHE:HB3	1.95	0.49
1:L:272:SER:N	1:L:350:MET:HE3	2.28	0.49
1:L:683:ASP:C	1:L:685:LEU:H	2.21	0.49
1:L:691:ASN:OD1	1:L:693:ASN:HB2	2.13	0.49
1:L:691:ASN:C	1:L:693:ASN:H	2.21	0.49
1:M:703:LYS:HA	1:M:706:THR:HG22	1.95	0.49
1:M:725:LEU:HD23	1:M:725:LEU:C	2.38	0.49
1:O:293:THR:HG22	1:O:334:ILE:HA	1.95	0.49
1:O:384:VAL:HG12	1:O:385:LEU:N	2.28	0.49
1:O:421:LEU:O	1:O:422:ASN:C	2.55	0.49
1:A:188:GLU:HA	1:A:192:TYR:CE2	2.48	0.49
1:A:293:THR:HG22	1:A:334:ILE:HA	1.95	0.49
1:A:384:VAL:HG12	1:A:385:LEU:N	2.28	0.49
1:B:204:SER:OG	1:B:205:PRO:HD2	2.13	0.49
1:C:384:VAL:HG12	1:C:385:LEU:N	2.28	0.49
1:C:456:TYR:CD2	1:C:456:TYR:N	2.79	0.49
1:C:515:GLU:OE1	1:D:245:LYS:HE2	2.13	0.49
1:C:683:ASP:C	1:C:685:LEU:H	2.21	0.49
1:E:223:PRO:HD2	1:E:517:THR:CG2	2.40	0.49
1:E:401:LEU:HD22	1:E:411:TYR:CE1	2.48	0.49
1:G:272:SER:N	1:G:350:MET:HE3	2.28	0.49
1:G:691:ASN:C	1:G:693:ASN:H	2.21	0.49
1:G:703:LYS:HA	1:G:706:THR:HG22	1.95	0.49
1:H:691:ASN:OD1	1:H:693:ASN:HB2	2.13	0.49
1:I:293:THR:HG22	1:I:334:ILE:HA	1.95	0.49
1:I:403:GLN:HE21	1:I:403:GLN:N	2.05	0.49
1:I:421:LEU:O	1:I:422:ASN:C	2.55	0.49
1:J:643:ILE:HA	1:J:657:ASN:HD21	1.78	0.49
1:K:421:LEU:O	1:K:422:ASN:C	2.55	0.49
1:M:643:ILE:HA	1:M:657:ASN:HD21	1.78	0.49
1:O:401:LEU:HD22	1:O:411:TYR:CE1	2.48	0.49
1:O:691:ASN:C	1:O:693:ASN:H	2.21	0.49
1:A:698:VAL:HB	1:A:727:PHE:HB3	1.95	0.48
1:B:691:ASN:C	1:B:693:ASN:H	2.21	0.48
1:B:725:LEU:HD23	1:B:725:LEU:C	2.38	0.48
1:C:364:ILE:HD12	1:C:364:ILE:C	2.37	0.48
1:C:421:LEU:O	1:C:422:ASN:C	2.55	0.48
1:C:480:VAL:O	1:C:480:VAL:HG12	2.13	0.48
1:C:643:ILE:HA	1:C:657:ASN:HD21	1.78	0.48
1:C:691:ASN:OD1	1:C:693:ASN:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:643:ILE:HA	1:D:657:ASN:HD21	1.78	0.48
1:D:683:ASP:C	1:D:685:LEU:H	2.21	0.48
1:F:382:SER:HB3	1:F:393:THR:HG22	1.94	0.48
1:F:411:TYR:CB	1:F:412:PRO:CD	2.89	0.48
1:F:459:ILE:HG22	1:F:460:ALA:N	2.28	0.48
1:F:698:VAL:HB	1:F:727:PHE:HB3	1.95	0.48
1:G:401:LEU:HD22	1:G:411:TYR:CE1	2.48	0.48
1:H:259:TYR:HD2	1:H:259:TYR:N	2.09	0.48
1:H:319:SER:OG	1:I:414:LYS:HE3	2.13	0.48
1:H:324:PHE:HE1	1:H:588:ASN:CB	2.25	0.48
1:H:456:TYR:CD2	1:H:456:TYR:N	2.79	0.48
1:I:691:ASN:C	1:I:693:ASN:H	2.21	0.48
1:J:384:VAL:HG12	1:J:385:LEU:N	2.28	0.48
1:J:638:ILE:HG12	1:J:639:LEU:HD22	1.95	0.48
1:K:725:LEU:C	1:K:725:LEU:HD23	2.38	0.48
1:M:253:HIS:C	1:M:253:HIS:ND1	2.71	0.48
1:M:648:ASP:HB2	1:M:652:LEU:HB2	1.95	0.48
1:O:253:HIS:C	1:O:253:HIS:ND1	2.71	0.48
1:O:398:GLU:C	1:O:400:GLN:H	2.20	0.48
1:O:638:ILE:HG12	1:O:639:LEU:HD22	1.95	0.48
1:A:691:ASN:C	1:A:693:ASN:H	2.21	0.48
1:B:382:SER:HB3	1:B:393:THR:HG22	1.93	0.48
1:C:272:SER:N	1:C:350:MET:HE3	2.28	0.48
1:C:725:LEU:C	1:C:725:LEU:HD23	2.38	0.48
1:D:691:ASN:OD1	1:D:693:ASN:HB2	2.13	0.48
1:E:188:GLU:HA	1:E:192:TYR:CE2	2.49	0.48
1:E:225:LYS:NZ	1:E:515:GLU:OE2	2.43	0.48
1:E:403:GLN:HE21	1:E:403:GLN:N	2.05	0.48
1:E:515:GLU:OE1	1:F:245:LYS:HE2	2.13	0.48
1:E:643:ILE:HA	1:E:657:ASN:HD21	1.78	0.48
1:E:648:ASP:HB2	1:E:652:LEU:HB2	1.95	0.48
1:E:691:ASN:C	1:E:693:ASN:H	2.21	0.48
1:F:514:LEU:HD22	1:O:242:ARG:HG2	1.93	0.48
1:F:648:ASP:HB2	1:F:652:LEU:HB2	1.95	0.48
1:F:683:ASP:C	1:F:685:LEU:H	2.21	0.48
1:F:725:LEU:HD23	1:F:725:LEU:C	2.38	0.48
1:G:648:ASP:HB2	1:G:652:LEU:HB2	1.95	0.48
1:G:725:LEU:HD23	1:G:725:LEU:C	2.38	0.48
1:H:480:VAL:O	1:H:484:ILE:HD13	2.12	0.48
1:H:631:ILE:HB	1:H:674:THR:OG1	2.13	0.48
1:H:640:SER:HB2	1:H:706:THR:HG21	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:398:GLU:C	1:I:400:GLN:H	2.20	0.48
1:I:643:ILE:HA	1:I:657:ASN:HD21	1.78	0.48
1:J:401:LEU:HD22	1:J:411:TYR:CE1	2.48	0.48
1:L:319:SER:CA	1:M:414:LYS:HG3	2.43	0.48
1:L:382:SER:HB3	1:L:393:THR:HG22	1.93	0.48
1:O:648:ASP:HB2	1:O:652:LEU:HB2	1.95	0.48
1:O:703:LYS:HA	1:O:706:THR:HG22	1.95	0.48
1:A:204:SER:OG	1:A:205:PRO:HD2	2.14	0.48
1:A:398:GLU:C	1:A:400:GLN:H	2.20	0.48
1:A:456:TYR:CD2	1:A:456:TYR:N	2.79	0.48
1:C:293:THR:HG22	1:C:334:ILE:HA	1.95	0.48
1:C:648:ASP:HB2	1:C:652:LEU:HB2	1.95	0.48
1:D:480:VAL:O	1:D:480:VAL:HG12	2.13	0.48
1:D:631:ILE:HB	1:D:674:THR:OG1	2.14	0.48
1:E:382:SER:HB2	1:E:393:THR:HG22	1.95	0.48
1:E:459:ILE:HG22	1:E:460:ALA:N	2.28	0.48
1:G:459:ILE:HG22	1:G:460:ALA:N	2.28	0.48
1:G:631:ILE:HB	1:G:674:THR:OG1	2.14	0.48
1:H:194:VAL:HG22	1:H:203:LEU:HD13	1.93	0.48
1:H:272:SER:N	1:H:350:MET:HE3	2.28	0.48
1:H:364:ILE:HD12	1:H:364:ILE:C	2.37	0.48
1:H:683:ASP:C	1:H:685:LEU:H	2.21	0.48
1:H:691:ASN:C	1:H:693:ASN:H	2.21	0.48
1:I:631:ILE:HB	1:I:674:THR:OG1	2.14	0.48
1:K:223:PRO:HD2	1:K:517:THR:CG2	2.40	0.48
1:K:293:THR:HG22	1:K:334:ILE:HA	1.95	0.48
1:K:398:GLU:C	1:K:400:GLN:H	2.20	0.48
1:M:188:GLU:HA	1:M:192:TYR:CE2	2.48	0.48
1:M:243:ILE:CG1	1:M:244:ASP:N	2.75	0.48
1:M:364:ILE:HD12	1:M:364:ILE:C	2.37	0.48
1:O:272:SER:N	1:O:350:MET:HE3	2.28	0.48
1:A:638:ILE:HG12	1:A:639:LEU:HD22	1.95	0.48
1:B:258:ALA:HA	1:B:371:THR:HG1	1.75	0.48
1:B:643:ILE:HA	1:B:657:ASN:HD21	1.78	0.48
1:B:683:ASP:C	1:B:685:LEU:H	2.21	0.48
1:C:243:ILE:CG1	1:C:244:ASP:N	2.75	0.48
1:C:394:ILE:HD13	1:C:421:LEU:CD2	2.44	0.48
1:D:226:TRP:HB2	1:E:466:ASN:O	2.13	0.48
1:D:272:SER:N	1:D:350:MET:HE3	2.28	0.48
1:E:272:SER:N	1:E:350:MET:HE3	2.28	0.48
1:E:725:LEU:HD23	1:E:725:LEU:C	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:272:SER:N	1:F:350:MET:HE3	2.28	0.48
1:F:631:ILE:HB	1:F:674:THR:OG1	2.14	0.48
1:F:691:ASN:C	1:F:693:ASN:H	2.21	0.48
1:G:199:LYS:CB	1:M:189:VAL:HG13	2.44	0.48
1:I:691:ASN:OD1	1:I:693:ASN:HB2	2.13	0.48
1:J:185:ASP:O	1:J:186:SER:C	2.54	0.48
1:J:318:GLY:HA3	1:K:410:TYR:CE1	2.47	0.48
1:J:691:ASN:OD1	1:J:693:ASN:HB2	2.13	0.48
1:K:259:TYR:HD2	1:K:259:TYR:N	2.09	0.48
1:L:260:PRO:HB2	1:L:456:TYR:CE1	2.49	0.48
1:L:293:THR:HG22	1:L:334:ILE:HA	1.95	0.48
1:L:398:GLU:C	1:L:400:GLN:H	2.20	0.48
1:L:401:LEU:HD22	1:L:411:TYR:CE1	2.48	0.48
1:M:394:ILE:HD13	1:M:421:LEU:CD2	2.44	0.48
1:M:605:VAL:HG12	1:M:704:GLU:HB3	1.96	0.48
1:A:640:SER:HB2	1:A:706:THR:HG21	1.93	0.48
1:A:648:ASP:HB2	1:A:652:LEU:HB2	1.95	0.48
1:C:584:ASN:HB2	1:C:587:MET:HE3	1.96	0.48
1:D:384:VAL:HG12	1:D:385:LEU:N	2.28	0.48
1:D:698:VAL:HB	1:D:727:PHE:HB3	1.95	0.48
1:E:243:ILE:CG1	1:E:244:ASP:N	2.75	0.48
1:E:293:THR:HG22	1:E:334:ILE:HA	1.95	0.48
1:E:411:TYR:CB	1:E:412:PRO:CD	2.89	0.48
1:F:403:GLN:HE21	1:F:403:GLN:N	2.05	0.48
1:G:324:PHE:HE1	1:G:588:ASN:CB	2.25	0.48
1:G:384:VAL:HG12	1:G:385:LEU:N	2.28	0.48
1:G:683:ASP:C	1:G:685:LEU:H	2.21	0.48
1:H:204:SER:OG	1:H:205:PRO:HD2	2.14	0.48
1:H:253:HIS:C	1:H:253:HIS:ND1	2.71	0.48
1:H:318:GLY:HA2	1:I:410:TYR:CD1	2.45	0.48
1:H:421:LEU:O	1:H:422:ASN:C	2.55	0.48
1:I:243:ILE:CG1	1:I:244:ASP:N	2.75	0.48
1:I:401:LEU:HD22	1:I:411:TYR:CE1	2.48	0.48
1:J:188:GLU:HA	1:J:192:TYR:CE2	2.48	0.48
1:J:293:THR:HG22	1:J:334:ILE:HA	1.95	0.48
1:J:394:ILE:HD13	1:J:421:LEU:CD2	2.44	0.48
1:J:631:ILE:HB	1:J:674:THR:OG1	2.13	0.48
1:K:253:HIS:C	1:K:253:HIS:ND1	2.71	0.48
1:K:384:VAL:HG12	1:K:385:LEU:N	2.28	0.48
1:K:631:ILE:HB	1:K:674:THR:OG1	2.14	0.48
1:K:638:ILE:HG12	1:K:639:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:643:ILE:HA	1:K:657:ASN:HD21	1.78	0.48
1:L:382:SER:HB2	1:L:393:THR:HG22	1.95	0.48
1:L:521:MET:HA	1:L:521:MET:CE	2.31	0.48
1:M:384:VAL:HG12	1:M:385:LEU:N	2.28	0.48
1:M:683:ASP:C	1:M:685:LEU:H	2.21	0.48
1:A:401:LEU:HD22	1:A:411:TYR:CE1	2.48	0.48
1:A:631:ILE:HB	1:A:674:THR:OG1	2.14	0.48
1:C:188:GLU:HA	1:C:192:TYR:CE2	2.48	0.48
1:C:638:ILE:HG12	1:C:639:LEU:HD22	1.95	0.48
1:E:584:ASN:HB2	1:E:587:MET:HE3	1.96	0.48
1:E:631:ILE:HB	1:E:674:THR:OG1	2.14	0.48
1:G:243:ILE:CG1	1:G:244:ASP:N	2.75	0.48
1:G:643:ILE:HA	1:G:657:ASN:HD21	1.78	0.48
1:H:725:LEU:C	1:H:725:LEU:HD23	2.38	0.48
1:I:303:VAL:HG23	1:J:670:GLN:HG2	1.95	0.48
1:I:459:ILE:HG22	1:I:460:ALA:N	2.28	0.48
1:I:648:ASP:HB2	1:I:652:LEU:HB2	1.95	0.48
1:J:253:HIS:C	1:J:253:HIS:ND1	2.71	0.48
1:J:639:LEU:HD22	1:J:639:LEU:N	2.29	0.48
1:K:204:SER:OG	1:K:205:PRO:HD2	2.14	0.48
1:L:253:HIS:ND1	1:L:253:HIS:C	2.71	0.48
1:L:384:VAL:HG12	1:L:385:LEU:N	2.28	0.48
1:L:584:ASN:H	1:L:587:MET:HE3	1.75	0.48
1:M:382:SER:HB2	1:M:393:THR:HG22	1.96	0.48
1:M:477:TRP:HB3	1:M:481:LEU:CD1	2.44	0.48
1:O:584:ASN:HB2	1:O:587:MET:HE3	1.96	0.48
1:A:253:HIS:ND1	1:A:253:HIS:C	2.71	0.48
1:A:477:TRP:HB3	1:A:481:LEU:CD1	2.44	0.48
1:B:188:GLU:HA	1:B:192:TYR:CE2	2.48	0.48
1:B:253:HIS:C	1:B:253:HIS:ND1	2.71	0.48
1:B:260:PRO:HB2	1:B:456:TYR:CE1	2.49	0.48
1:B:691:ASN:OD1	1:B:693:ASN:HB2	2.13	0.48
1:D:584:ASN:HB2	1:D:587:MET:HE3	1.96	0.48
1:E:364:ILE:HD12	1:E:364:ILE:C	2.37	0.48
1:E:480:VAL:O	1:E:480:VAL:HG12	2.13	0.48
1:F:435:ASN:OD1	1:F:438:GLN:HG3	2.14	0.48
1:F:643:ILE:HA	1:F:657:ASN:HD21	1.78	0.48
1:G:584:ASN:HB2	1:G:587:MET:HE3	1.96	0.48
1:G:691:ASN:OD1	1:G:693:ASN:HB2	2.13	0.48
1:H:188:GLU:HA	1:H:192:TYR:CE2	2.48	0.48
1:H:260:PRO:HB2	1:H:456:TYR:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:384:VAL:HG12	1:H:385:LEU:N	2.28	0.48
1:H:458:ASN:ND2	1:H:476:ASN:HB2	2.27	0.48
1:H:459:ILE:HG22	1:H:460:ALA:N	2.28	0.48
1:I:435:ASN:OD1	1:I:438:GLN:HG3	2.14	0.48
1:J:204:SER:OG	1:J:205:PRO:HD2	2.13	0.48
1:J:648:ASP:HB2	1:J:652:LEU:HB2	1.95	0.48
1:L:324:PHE:HE1	1:L:588:ASN:CB	2.25	0.48
1:L:607:ALA:H	1:L:638:ILE:HD12	1.79	0.48
1:L:648:ASP:HB2	1:L:652:LEU:HB2	1.95	0.48
1:M:459:ILE:HG22	1:M:460:ALA:N	2.28	0.48
1:M:691:ASN:C	1:M:693:ASN:H	2.21	0.48
1:O:631:ILE:HB	1:O:674:THR:OG1	2.13	0.48
1:O:639:LEU:HD22	1:O:639:LEU:N	2.29	0.48
1:A:260:PRO:HB2	1:A:456:TYR:CE1	2.49	0.48
1:A:382:SER:HB2	1:A:393:THR:HG22	1.95	0.48
1:A:708:ILE:HD12	1:A:709:ASN:N	2.29	0.48
1:B:456:TYR:N	1:B:456:TYR:CD2	2.79	0.48
1:B:631:ILE:HB	1:B:674:THR:OG1	2.13	0.48
1:B:639:LEU:HD22	1:B:639:LEU:N	2.29	0.48
1:C:200:ARG:HG2	1:C:200:ARG:NH1	2.24	0.48
1:C:435:ASN:OD1	1:C:438:GLN:HG3	2.14	0.48
1:C:459:ILE:HG22	1:C:460:ALA:N	2.28	0.48
1:C:605:VAL:HG12	1:C:704:GLU:HB3	1.96	0.48
1:D:394:ILE:HD13	1:D:421:LEU:CD2	2.44	0.48
1:D:691:ASN:C	1:D:693:ASN:H	2.21	0.48
1:D:725:LEU:HD23	1:D:725:LEU:C	2.38	0.48
1:F:384:VAL:HG12	1:F:385:LEU:N	2.28	0.48
1:F:691:ASN:OD1	1:F:693:ASN:HB2	2.13	0.48
1:G:260:PRO:HB2	1:G:456:TYR:CE1	2.49	0.48
1:G:435:ASN:OD1	1:G:438:GLN:HG3	2.14	0.48
1:G:477:TRP:HB3	1:G:481:LEU:CD1	2.44	0.48
1:H:477:TRP:HB3	1:H:481:LEU:CD1	2.44	0.48
1:I:383:LEU:C	1:I:383:LEU:HD23	2.39	0.48
1:I:638:ILE:HG12	1:I:639:LEU:HD22	1.96	0.48
1:K:605:VAL:HG12	1:K:704:GLU:HB3	1.96	0.48
1:K:691:ASN:OD1	1:K:693:ASN:HB2	2.13	0.48
1:L:480:VAL:O	1:L:480:VAL:HG12	2.13	0.48
1:L:643:ILE:HA	1:L:657:ASN:HD21	1.78	0.48
1:M:226:TRP:CH2	1:M:234:SER:HB3	2.49	0.48
1:M:480:VAL:O	1:M:480:VAL:HG12	2.13	0.48
1:M:638:ILE:HG12	1:M:639:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:691:ASN:OD1	1:M:693:ASN:HB2	2.13	0.48
1:M:698:VAL:HB	1:M:727:PHE:HB3	1.95	0.48
1:O:459:ILE:HG22	1:O:460:ALA:N	2.28	0.48
1:O:691:ASN:OD1	1:O:693:ASN:HB2	2.13	0.48
1:A:383:LEU:C	1:A:383:LEU:HD23	2.39	0.48
1:A:403:GLN:HE21	1:A:403:GLN:N	2.05	0.48
1:A:691:ASN:OD1	1:A:693:ASN:HB2	2.13	0.48
1:B:383:LEU:HD23	1:B:383:LEU:C	2.39	0.48
1:B:459:ILE:HG22	1:B:460:ALA:N	2.28	0.48
1:C:226:TRP:CH2	1:C:234:SER:HB3	2.49	0.48
1:C:253:HIS:C	1:C:253:HIS:ND1	2.71	0.48
1:D:188:GLU:HA	1:D:192:TYR:CE2	2.48	0.48
1:D:204:SER:OG	1:D:205:PRO:HD2	2.14	0.48
1:D:477:TRP:HB3	1:D:481:LEU:CD1	2.44	0.48
1:D:513:PRO:HB2	1:E:240:THR:O	2.13	0.48
1:F:188:GLU:HA	1:F:192:TYR:CE2	2.48	0.48
1:F:204:SER:OG	1:F:205:PRO:HD2	2.14	0.48
1:F:394:ILE:HD13	1:F:421:LEU:CD2	2.44	0.48
1:F:606:GLY:CA	1:F:638:ILE:HD12	2.39	0.48
1:F:638:ILE:HG12	1:F:639:LEU:HD22	1.95	0.48
1:F:708:ILE:HD12	1:F:709:ASN:N	2.29	0.48
1:G:394:ILE:HD13	1:G:421:LEU:CD2	2.44	0.48
1:G:607:ALA:H	1:G:638:ILE:HD12	1.79	0.48
1:H:638:ILE:HG12	1:H:639:LEU:HD22	1.96	0.48
1:J:691:ASN:C	1:J:693:ASN:H	2.21	0.48
1:K:226:TRP:CH2	1:K:234:SER:HB3	2.49	0.48
1:K:260:PRO:HB2	1:K:456:TYR:CE1	2.49	0.48
1:L:204:SER:OG	1:L:205:PRO:HD2	2.14	0.48
1:L:435:ASN:OD1	1:L:438:GLN:HG3	2.14	0.48
1:L:605:VAL:HG12	1:L:704:GLU:HB3	1.96	0.48
1:M:204:SER:OG	1:M:205:PRO:HD2	2.14	0.48
1:M:293:THR:HG22	1:M:334:ILE:HA	1.95	0.48
1:M:421:LEU:O	1:M:422:ASN:C	2.55	0.48
1:M:639:LEU:HD22	1:M:639:LEU:N	2.29	0.48
1:O:188:GLU:HA	1:O:192:TYR:CE2	2.48	0.48
1:O:260:PRO:HB2	1:O:456:TYR:CE1	2.49	0.48
1:O:643:ILE:HA	1:O:657:ASN:HD21	1.78	0.48
1:O:698:VAL:HB	1:O:727:PHE:HB3	1.95	0.48
1:O:708:ILE:HD12	1:O:709:ASN:N	2.29	0.48
1:A:435:ASN:OD1	1:A:438:GLN:HG3	2.14	0.48
1:A:607:ALA:H	1:A:638:ILE:HD12	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:605:VAL:HG12	1:B:704:GLU:HB3	1.96	0.48
1:B:607:ALA:H	1:B:638:ILE:HD12	1.79	0.48
1:B:698:VAL:HB	1:B:727:PHE:HB3	1.95	0.48
1:C:383:LEU:HD23	1:C:383:LEU:C	2.39	0.48
1:C:512:ASP:OD1	1:D:245:LYS:HE3	2.13	0.48
1:D:382:SER:HB2	1:D:393:THR:HG22	1.96	0.48
1:D:648:ASP:HB2	1:D:652:LEU:HB2	1.95	0.48
1:D:703:LYS:HA	1:D:706:THR:HG22	1.95	0.48
1:D:708:ILE:HD12	1:D:709:ASN:N	2.29	0.48
1:E:483:GLN:NE2	1:F:469:VAL:HG21	2.29	0.48
1:F:226:TRP:CH2	1:F:234:SER:HB3	2.49	0.48
1:F:310:HIS:CD2	1:F:312:SER:HB2	2.49	0.48
1:F:324:PHE:HE1	1:F:588:ASN:CB	2.25	0.48
1:F:477:TRP:HB3	1:F:481:LEU:CD1	2.44	0.48
1:F:607:ALA:H	1:F:638:ILE:HD12	1.79	0.48
1:G:253:HIS:C	1:G:253:HIS:ND1	2.71	0.48
1:H:226:TRP:CH2	1:H:234:SER:HB3	2.49	0.48
1:H:293:THR:HG22	1:H:334:ILE:HA	1.95	0.48
1:H:480:VAL:O	1:H:480:VAL:HG12	2.13	0.48
1:H:703:LYS:HA	1:H:706:THR:HG22	1.95	0.48
1:I:188:GLU:HA	1:I:192:TYR:CE2	2.48	0.48
1:I:258:ALA:HA	1:I:371:THR:HG1	1.78	0.48
1:J:260:PRO:HB2	1:J:456:TYR:CE1	2.49	0.48
1:K:394:ILE:HD13	1:K:421:LEU:CD2	2.44	0.48
1:K:708:ILE:HD12	1:K:709:ASN:N	2.29	0.48
1:L:638:ILE:HG12	1:L:639:LEU:HD22	1.95	0.48
1:M:398:GLU:C	1:M:400:GLN:H	2.20	0.48
1:M:584:ASN:HB2	1:M:587:MET:HE3	1.96	0.48
1:M:708:ILE:HD12	1:M:709:ASN:N	2.29	0.48
1:O:382:SER:HB2	1:O:393:THR:HG22	1.95	0.48
1:O:477:TRP:HB3	1:O:481:LEU:CD1	2.44	0.48
1:O:480:VAL:O	1:O:480:VAL:HG12	2.13	0.48
1:O:607:ALA:H	1:O:638:ILE:HD12	1.79	0.48
1:A:310:HIS:CD2	1:A:312:SER:HB2	2.49	0.47
1:C:195:ASP:O	1:C:202:PHE:N	2.43	0.47
1:C:260:PRO:HB2	1:C:456:TYR:CE1	2.49	0.47
1:C:703:LYS:HA	1:C:706:THR:HG22	1.95	0.47
1:C:708:ILE:HD12	1:C:709:ASN:N	2.29	0.47
1:D:260:PRO:HB2	1:D:456:TYR:CE1	2.49	0.47
1:D:293:THR:HG22	1:D:334:ILE:HA	1.95	0.47
1:D:303:VAL:CG2	1:E:670:GLN:HG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:607:ALA:H	1:D:638:ILE:HD12	1.79	0.47
1:E:638:ILE:HG12	1:E:639:LEU:HD22	1.95	0.47
1:F:480:VAL:O	1:F:480:VAL:HG12	2.13	0.47
1:G:204:SER:OG	1:G:205:PRO:HD2	2.14	0.47
1:G:480:VAL:O	1:G:480:VAL:HG12	2.13	0.47
1:G:639:LEU:HD22	1:G:639:LEU:N	2.29	0.47
1:G:698:VAL:HB	1:G:727:PHE:HB3	1.95	0.47
1:H:648:ASP:HB2	1:H:652:LEU:HB2	1.95	0.47
1:J:226:TRP:CH2	1:J:234:SER:HB3	2.49	0.47
1:J:382:SER:HB2	1:J:393:THR:HG22	1.96	0.47
1:K:188:GLU:HA	1:K:192:TYR:CE2	2.48	0.47
1:K:639:LEU:HD22	1:K:639:LEU:N	2.29	0.47
1:L:188:GLU:HA	1:L:192:TYR:CE2	2.49	0.47
1:L:310:HIS:CD2	1:L:312:SER:HB2	2.49	0.47
1:L:631:ILE:HB	1:L:674:THR:OG1	2.13	0.47
1:M:260:PRO:HB2	1:M:456:TYR:CE1	2.49	0.47
1:M:383:LEU:HD23	1:M:383:LEU:C	2.39	0.47
1:O:185:ASP:O	1:O:189:VAL:HG23	2.14	0.47
1:O:204:SER:OG	1:O:205:PRO:HD2	2.14	0.47
1:O:383:LEU:HD23	1:O:383:LEU:C	2.39	0.47
1:A:480:VAL:O	1:A:480:VAL:HG12	2.13	0.47
1:C:254:PRO:C	1:C:255:LEU:HD23	2.40	0.47
1:C:382:SER:HB2	1:C:393:THR:HG22	1.95	0.47
1:D:638:ILE:HG12	1:D:639:LEU:HD22	1.95	0.47
1:E:384:VAL:HG12	1:E:385:LEU:N	2.28	0.47
1:E:703:LYS:HA	1:E:706:THR:HG22	1.95	0.47
1:G:226:TRP:CH2	1:G:234:SER:HB3	2.49	0.47
1:H:394:ILE:HD13	1:H:421:LEU:CD2	2.44	0.47
1:H:605:VAL:HG12	1:H:704:GLU:HB3	1.96	0.47
1:H:607:ALA:H	1:H:638:ILE:HD12	1.79	0.47
1:H:645:GLU:HA	1:H:655:VAL:HA	1.97	0.47
1:H:708:ILE:HD12	1:H:709:ASN:N	2.29	0.47
1:I:459:ILE:HG12	1:I:477:TRP:CD1	2.50	0.47
1:I:480:VAL:O	1:I:480:VAL:HG12	2.13	0.47
1:K:243:ILE:CG1	1:K:244:ASP:N	2.75	0.47
1:K:435:ASN:OD1	1:K:438:GLN:HG3	2.14	0.47
1:K:691:ASN:C	1:K:693:ASN:H	2.21	0.47
1:M:254:PRO:C	1:M:255:LEU:HD23	2.40	0.47
1:M:401:LEU:HD22	1:M:411:TYR:CE1	2.48	0.47
1:B:435:ASN:OD1	1:B:438:GLN:HG3	2.14	0.47
1:B:477:TRP:HB3	1:B:481:LEU:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:645:GLU:HA	1:B:655:VAL:HA	1.96	0.47
1:E:204:SER:OG	1:E:205:PRO:HD2	2.14	0.47
1:E:260:PRO:HB2	1:E:456:TYR:CE1	2.49	0.47
1:E:435:ASN:OD1	1:E:438:GLN:HG3	2.14	0.47
1:E:645:GLU:HA	1:E:655:VAL:HA	1.96	0.47
1:F:382:SER:HB2	1:F:393:THR:HG22	1.96	0.47
1:F:383:LEU:C	1:F:383:LEU:HD23	2.39	0.47
1:G:293:THR:HG22	1:G:334:ILE:HA	1.95	0.47
1:G:313:PHE:HA	1:G:319:SER:HB2	1.97	0.47
1:G:456:TYR:N	1:G:456:TYR:CD2	2.79	0.47
1:G:458:ASN:ND2	1:G:476:ASN:HB2	2.27	0.47
1:H:185:ASP:O	1:H:189:VAL:HG23	2.14	0.47
1:H:310:HIS:CD2	1:H:312:SER:HB2	2.49	0.47
1:I:204:SER:OG	1:I:205:PRO:HD2	2.14	0.47
1:I:226:TRP:CH2	1:I:234:SER:HB3	2.49	0.47
1:I:260:PRO:HB2	1:I:456:TYR:CE1	2.49	0.47
1:I:498:LEU:HD22	1:I:498:LEU:N	2.30	0.47
1:I:584:ASN:HB2	1:I:587:MET:HE3	1.96	0.47
1:I:645:GLU:HA	1:I:655:VAL:HA	1.96	0.47
1:K:185:ASP:O	1:K:189:VAL:HG23	2.14	0.47
1:K:382:SER:HB2	1:K:393:THR:HG22	1.96	0.47
1:K:477:TRP:HB3	1:K:481:LEU:CD1	2.44	0.47
1:O:226:TRP:CH2	1:O:234:SER:HB3	2.49	0.47
1:O:394:ILE:HD13	1:O:421:LEU:CD2	2.44	0.47
1:A:319:SER:O	1:A:321:SER:N	2.48	0.47
1:A:394:ILE:HD13	1:A:421:LEU:CD2	2.44	0.47
1:A:639:LEU:HD22	1:A:639:LEU:N	2.29	0.47
1:A:643:ILE:HA	1:A:657:ASN:HD21	1.78	0.47
1:B:642:TYR:HD1	1:B:699:TYR:O	1.98	0.47
1:C:204:SER:OG	1:C:205:PRO:HD2	2.14	0.47
1:C:477:TRP:HB3	1:C:481:LEU:CD1	2.44	0.47
1:C:607:ALA:H	1:C:638:ILE:HD12	1.79	0.47
1:D:185:ASP:O	1:D:189:VAL:HG23	2.14	0.47
1:D:411:TYR:CD2	1:D:412:PRO:N	2.83	0.47
1:D:498:LEU:HD22	1:D:498:LEU:N	2.30	0.47
1:D:605:VAL:HG12	1:D:704:GLU:HB3	1.96	0.47
1:D:642:TYR:HD1	1:D:699:TYR:O	1.98	0.47
1:D:645:GLU:HA	1:D:655:VAL:HA	1.96	0.47
1:E:411:TYR:CD2	1:E:412:PRO:N	2.83	0.47
1:E:456:TYR:N	1:E:456:TYR:CD2	2.79	0.47
1:E:554:PHE:HB3	1:E:558:THR:HB	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:189:VAL:CG1	1:O:199:LYS:HB2	2.44	0.47
1:F:260:PRO:HB2	1:F:456:TYR:CE1	2.49	0.47
1:F:293:THR:HG22	1:F:334:ILE:HA	1.95	0.47
1:F:584:ASN:HB2	1:F:587:MET:HE3	1.96	0.47
1:G:188:GLU:HA	1:G:192:TYR:CE2	2.48	0.47
1:G:383:LEU:HD23	1:G:383:LEU:C	2.39	0.47
1:G:605:VAL:HG12	1:G:704:GLU:HB3	1.96	0.47
1:H:254:PRO:C	1:H:255:LEU:HD23	2.40	0.47
1:H:642:TYR:HD1	1:H:699:TYR:O	1.98	0.47
1:H:698:VAL:HB	1:H:727:PHE:HB3	1.95	0.47
1:I:639:LEU:HD22	1:I:639:LEU:N	2.29	0.47
1:I:708:ILE:HD12	1:I:709:ASN:N	2.29	0.47
1:J:223:PRO:HD2	1:J:517:THR:CG2	2.40	0.47
1:J:319:SER:HA	1:K:414:LYS:CB	2.44	0.47
1:K:648:ASP:HB2	1:K:652:LEU:HB2	1.95	0.47
1:L:403:GLN:HE21	1:L:403:GLN:N	2.04	0.47
1:L:459:ILE:HG12	1:L:477:TRP:CD1	2.50	0.47
1:L:584:ASN:HB2	1:L:587:MET:HE3	1.96	0.47
1:M:185:ASP:O	1:M:189:VAL:HG23	2.14	0.47
1:O:310:HIS:CD2	1:O:312:SER:HB2	2.49	0.47
1:O:403:GLN:HE21	1:O:403:GLN:N	2.05	0.47
1:A:226:TRP:CH2	1:A:234:SER:HB3	2.49	0.47
1:B:476:ASN:OD1	1:B:478:SER:HB2	2.15	0.47
1:C:459:ILE:HG12	1:C:477:TRP:CD1	2.50	0.47
1:C:631:ILE:HB	1:C:674:THR:OG1	2.13	0.47
1:D:639:LEU:HD22	1:D:639:LEU:N	2.29	0.47
1:E:188:GLU:HG2	1:E:222:SER:C	2.40	0.47
1:E:254:PRO:C	1:E:255:LEU:HD23	2.40	0.47
1:E:383:LEU:HD23	1:E:383:LEU:C	2.39	0.47
1:E:607:ALA:H	1:E:638:ILE:HD12	1.79	0.47
1:F:313:PHE:HA	1:F:319:SER:HB2	1.97	0.47
1:F:411:TYR:CD2	1:F:412:PRO:N	2.83	0.47
1:H:313:PHE:HA	1:H:319:SER:HB2	1.97	0.47
1:H:383:LEU:HD23	1:H:383:LEU:C	2.39	0.47
1:I:185:ASP:O	1:I:189:VAL:HG23	2.14	0.47
1:I:382:SER:HB2	1:I:393:THR:HG22	1.95	0.47
1:J:435:ASN:OD1	1:J:438:GLN:HG3	2.14	0.47
1:J:458:ASN:ND2	1:J:476:ASN:HB2	2.27	0.47
1:J:480:VAL:O	1:J:480:VAL:HG12	2.13	0.47
1:J:703:LYS:HA	1:J:706:THR:HG22	1.95	0.47
1:L:383:LEU:HD23	1:L:383:LEU:C	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:394:ILE:HD13	1:L:421:LEU:CD2	2.44	0.47
1:L:477:TRP:HB3	1:L:481:LEU:CD1	2.44	0.47
1:L:639:LEU:HD22	1:L:639:LEU:N	2.29	0.47
1:M:435:ASN:OD1	1:M:438:GLN:HG3	2.14	0.47
1:M:459:ILE:HG12	1:M:477:TRP:CD1	2.50	0.47
1:M:631:ILE:HB	1:M:674:THR:OG1	2.13	0.47
1:A:313:PHE:HA	1:A:319:SER:HB2	1.97	0.47
1:B:226:TRP:CH2	1:B:234:SER:HB3	2.49	0.47
1:B:480:VAL:O	1:B:480:VAL:HG12	2.13	0.47
1:B:584:ASN:HB2	1:B:587:MET:HE3	1.96	0.47
1:B:644:VAL:HG21	1:B:678:PHE:CD1	2.50	0.47
1:C:185:ASP:O	1:C:189:VAL:HG23	2.14	0.47
1:C:642:TYR:HD1	1:C:699:TYR:O	1.98	0.47
1:D:254:PRO:C	1:D:255:LEU:HD23	2.39	0.47
1:D:554:PHE:HB3	1:D:558:THR:HB	1.97	0.47
1:E:226:TRP:CH2	1:E:234:SER:HB3	2.49	0.47
1:E:477:TRP:HB3	1:E:481:LEU:CD1	2.44	0.47
1:F:380:THR:HG23	1:F:395:LYS:CG	2.44	0.47
1:F:498:LEU:HD22	1:F:498:LEU:N	2.30	0.47
1:F:645:GLU:HA	1:F:655:VAL:HA	1.96	0.47
1:F:703:LYS:HA	1:F:706:THR:HG22	1.95	0.47
1:H:380:THR:HG23	1:H:395:LYS:CG	2.44	0.47
1:I:270:ILE:HG23	1:I:270:ILE:O	2.15	0.47
1:I:380:THR:HG23	1:I:395:LYS:CG	2.45	0.47
1:I:394:ILE:HD13	1:I:421:LEU:CD2	2.44	0.47
1:J:185:ASP:O	1:J:189:VAL:HG23	2.14	0.47
1:J:188:GLU:HG2	1:J:222:SER:C	2.40	0.47
1:J:380:THR:HG23	1:J:395:LYS:CG	2.45	0.47
1:K:383:LEU:HD23	1:K:383:LEU:C	2.39	0.47
1:K:411:TYR:CD2	1:K:412:PRO:N	2.83	0.47
1:K:458:ASN:ND2	1:K:476:ASN:HB2	2.27	0.47
1:K:498:LEU:HD22	1:K:498:LEU:N	2.30	0.47
1:K:607:ALA:H	1:K:638:ILE:HD12	1.79	0.47
1:L:226:TRP:CH2	1:L:234:SER:HB3	2.49	0.47
1:L:498:LEU:HD22	1:L:498:LEU:N	2.30	0.47
1:M:188:GLU:HG2	1:M:222:SER:C	2.40	0.47
1:M:310:HIS:CD2	1:M:312:SER:HB2	2.49	0.47
1:M:498:LEU:N	1:M:498:LEU:HD22	2.30	0.47
1:O:313:PHE:HA	1:O:319:SER:HB2	1.97	0.47
1:O:380:THR:HG23	1:O:395:LYS:CG	2.45	0.47
1:O:435:ASN:OD1	1:O:438:GLN:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:459:ILE:HG12	1:O:477:TRP:CD1	2.50	0.47
1:A:185:ASP:O	1:A:189:VAL:HG23	2.14	0.47
1:A:476:ASN:OD1	1:A:478:SER:HB2	2.15	0.47
1:A:645:GLU:HA	1:A:655:VAL:HA	1.96	0.47
1:B:382:SER:HB2	1:B:393:THR:HG22	1.96	0.47
1:B:384:VAL:HG12	1:B:385:LEU:N	2.28	0.47
1:B:394:ILE:HD13	1:B:421:LEU:CD2	2.44	0.47
1:B:411:TYR:CD2	1:B:412:PRO:N	2.83	0.47
1:B:459:ILE:HG12	1:B:477:TRP:CD1	2.50	0.47
1:B:498:LEU:HD22	1:B:498:LEU:N	2.30	0.47
1:B:708:ILE:HD12	1:B:709:ASN:N	2.29	0.47
1:C:310:HIS:CD2	1:C:312:SER:HB2	2.49	0.47
1:C:380:THR:HG23	1:C:395:LYS:CG	2.44	0.47
1:C:476:ASN:OD1	1:C:478:SER:HB2	2.15	0.47
1:C:521:MET:HG3	1:C:583:LEU:HD12	1.97	0.47
1:C:639:LEU:HD22	1:C:639:LEU:N	2.29	0.47
1:D:310:HIS:CD2	1:D:312:SER:HB2	2.49	0.47
1:D:313:PHE:HA	1:D:319:SER:HB2	1.97	0.47
1:D:383:LEU:HD23	1:D:383:LEU:C	2.39	0.47
1:D:435:ASN:OD1	1:D:438:GLN:HG3	2.14	0.47
1:E:185:ASP:O	1:E:189:VAL:HG23	2.14	0.47
1:E:394:ILE:HD13	1:E:421:LEU:CD2	2.44	0.47
1:E:605:VAL:HG12	1:E:704:GLU:HB3	1.96	0.47
1:F:584:ASN:H	1:F:587:MET:HE3	1.75	0.47
1:F:605:VAL:HG12	1:F:704:GLU:HB3	1.96	0.47
1:F:639:LEU:HD22	1:F:639:LEU:N	2.29	0.47
1:G:259:TYR:HD2	1:G:259:TYR:N	2.09	0.47
1:G:310:HIS:CD2	1:G:312:SER:HB2	2.49	0.47
1:G:319:SER:O	1:G:321:SER:N	2.48	0.47
1:G:380:THR:HG23	1:G:395:LYS:CG	2.45	0.47
1:G:382:SER:HB2	1:G:393:THR:HG22	1.95	0.47
1:H:411:TYR:CB	1:H:412:PRO:CD	2.89	0.47
1:I:310:HIS:CD2	1:I:312:SER:HB2	2.49	0.47
1:I:607:ALA:H	1:I:638:ILE:HD12	1.79	0.47
1:I:703:LYS:HA	1:I:706:THR:HG22	1.95	0.47
1:J:310:HIS:CD2	1:J:312:SER:HB2	2.49	0.47
1:J:459:ILE:HG12	1:J:477:TRP:CD1	2.50	0.47
1:J:605:VAL:HG12	1:J:704:GLU:HB3	1.96	0.47
1:K:254:PRO:C	1:K:255:LEU:HD23	2.40	0.47
1:L:188:GLU:HG2	1:L:222:SER:C	2.40	0.47
1:L:644:VAL:HG21	1:L:678:PHE:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:476:ASN:OD1	1:M:478:SER:HB2	2.15	0.47
1:M:554:PHE:HB3	1:M:558:THR:HB	1.97	0.47
1:M:607:ALA:H	1:M:638:ILE:HD12	1.79	0.47
1:M:642:TYR:HD1	1:M:699:TYR:O	1.98	0.47
1:O:254:PRO:C	1:O:255:LEU:HD23	2.40	0.47
1:O:270:ILE:O	1:O:270:ILE:HG23	2.15	0.47
1:O:476:ASN:OD1	1:O:478:SER:HB2	2.15	0.47
1:O:605:VAL:HG12	1:O:704:GLU:HB3	1.96	0.47
1:O:645:GLU:HA	1:O:655:VAL:HA	1.96	0.47
1:A:253:HIS:CE1	1:A:255:LEU:H	2.33	0.47
1:A:642:TYR:HD1	1:A:699:TYR:O	1.98	0.47
1:C:319:SER:O	1:C:321:SER:N	2.48	0.47
1:D:380:THR:HG23	1:D:395:LYS:CG	2.45	0.47
1:D:459:ILE:HG12	1:D:477:TRP:CD1	2.50	0.47
1:E:476:ASN:OD1	1:E:478:SER:HB2	2.15	0.47
1:F:185:ASP:O	1:F:189:VAL:HG23	2.14	0.47
1:G:270:ILE:O	1:G:270:ILE:HG23	2.15	0.47
1:G:411:TYR:CD2	1:G:412:PRO:N	2.83	0.47
1:G:459:ILE:HG12	1:G:477:TRP:CD1	2.50	0.47
1:G:521:MET:HG3	1:G:583:LEU:HD12	1.97	0.47
1:H:554:PHE:HB3	1:H:558:THR:HB	1.97	0.47
1:J:383:LEU:HD23	1:J:383:LEU:C	2.39	0.47
1:J:708:ILE:HD12	1:J:709:ASN:N	2.29	0.47
1:L:254:PRO:C	1:L:255:LEU:HD23	2.40	0.47
1:L:521:MET:HG3	1:L:583:LEU:HD12	1.97	0.47
1:M:259:TYR:HD2	1:M:259:TYR:N	2.09	0.47
1:M:411:TYR:CD2	1:M:412:PRO:N	2.83	0.47
1:O:411:TYR:CD2	1:O:412:PRO:N	2.83	0.47
1:B:188:GLU:HG2	1:B:222:SER:C	2.40	0.47
1:B:207:ILE:N	1:B:211:HIS:HD2	2.13	0.47
1:B:243:ILE:CG1	1:B:244:ASP:N	2.75	0.47
1:C:498:LEU:HD22	1:C:498:LEU:N	2.30	0.47
1:D:188:GLU:HG2	1:D:222:SER:C	2.40	0.47
1:D:226:TRP:CH2	1:D:234:SER:HB3	2.49	0.47
1:D:660:TYR:CE1	1:D:661:ASP:HB3	2.50	0.47
1:E:207:ILE:N	1:E:211:HIS:HD2	2.13	0.47
1:E:298:THR:HB	1:E:601:ASN:HD22	1.80	0.47
1:E:459:ILE:HG12	1:E:477:TRP:CD1	2.50	0.47
1:E:513:PRO:HB2	1:F:240:THR:O	2.14	0.47
1:E:639:LEU:HD22	1:E:639:LEU:N	2.29	0.47
1:F:254:PRO:C	1:F:255:LEU:HD23	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:422:ASN:HD22	1:G:432:ILE:CG1	2.28	0.47
1:G:476:ASN:OD1	1:G:478:SER:HB2	2.15	0.47
1:G:642:TYR:HD1	1:G:699:TYR:O	1.98	0.47
1:H:269:ILE:HG22	1:H:362:ALA:CB	2.44	0.47
1:H:382:SER:HB2	1:H:393:THR:HG22	1.95	0.47
1:I:188:GLU:HG2	1:I:222:SER:C	2.40	0.47
1:I:189:VAL:CG1	1:J:199:LYS:CG	2.92	0.47
1:J:411:TYR:CD2	1:J:412:PRO:N	2.83	0.47
1:J:645:GLU:HA	1:J:655:VAL:HA	1.96	0.47
1:K:188:GLU:HG2	1:K:222:SER:C	2.40	0.47
1:K:642:TYR:HD1	1:K:699:TYR:O	1.98	0.47
1:L:185:ASP:O	1:L:189:VAL:HG23	2.14	0.47
1:L:380:THR:HG23	1:L:395:LYS:CG	2.45	0.47
1:M:645:GLU:HA	1:M:655:VAL:HA	1.96	0.47
1:O:253:HIS:CE1	1:O:255:LEU:H	2.33	0.47
1:O:642:TYR:HD1	1:O:699:TYR:O	1.98	0.47
1:B:269:ILE:HG22	1:B:362:ALA:CB	2.44	0.47
1:B:310:HIS:CD2	1:B:312:SER:HB2	2.50	0.47
1:B:313:PHE:HA	1:B:319:SER:HB2	1.97	0.47
1:B:380:THR:HG23	1:B:395:LYS:CG	2.45	0.47
1:B:703:LYS:HA	1:B:706:THR:HG22	1.95	0.47
1:C:259:TYR:HD2	1:C:259:TYR:N	2.09	0.47
1:E:313:PHE:HA	1:E:319:SER:HB2	1.97	0.47
1:G:708:ILE:HD12	1:G:709:ASN:N	2.29	0.47
1:H:584:ASN:HB2	1:H:587:MET:HE3	1.96	0.47
1:H:660:TYR:CE1	1:H:661:ASP:HB3	2.50	0.47
1:I:223:PRO:HD2	1:I:517:THR:CG2	2.40	0.47
1:I:411:TYR:CD2	1:I:412:PRO:N	2.83	0.47
1:I:660:TYR:CE1	1:I:661:ASP:HB3	2.50	0.47
1:J:319:SER:O	1:J:321:SER:N	2.48	0.47
1:J:480:VAL:CG2	1:K:468:ARG:HD3	2.46	0.47
1:J:584:ASN:HB2	1:J:587:MET:HE3	1.96	0.47
1:J:607:ALA:H	1:J:638:ILE:HD12	1.79	0.47
1:K:314:PHE:CZ	1:L:672:GLY:HA2	2.50	0.47
1:K:324:PHE:HE1	1:K:588:ASN:CB	2.25	0.47
1:K:459:ILE:HG12	1:K:477:TRP:CD1	2.50	0.47
1:K:476:ASN:OD1	1:K:478:SER:HB2	2.15	0.47
1:K:584:ASN:HB2	1:K:587:MET:HE3	1.96	0.47
1:K:660:TYR:CE1	1:K:661:ASP:HB3	2.50	0.47
1:L:207:ILE:N	1:L:211:HIS:HD2	2.13	0.47
1:L:313:PHE:HA	1:L:319:SER:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:708:ILE:HD12	1:L:709:ASN:N	2.29	0.47
1:M:207:ILE:N	1:M:211:HIS:HD2	2.13	0.47
1:M:253:HIS:CE1	1:M:255:LEU:H	2.33	0.47
1:O:660:TYR:CE1	1:O:661:ASP:HB3	2.50	0.47
1:A:459:ILE:HG12	1:A:477:TRP:CD1	2.50	0.46
1:B:254:PRO:C	1:B:255:LEU:HD23	2.40	0.46
1:B:403:GLN:HE21	1:B:403:GLN:N	2.05	0.46
1:B:660:TYR:CE1	1:B:661:ASP:HB3	2.50	0.46
1:C:189:VAL:CG1	1:D:199:LYS:HB2	2.44	0.46
1:C:411:TYR:CD2	1:C:412:PRO:N	2.83	0.46
1:C:645:GLU:HA	1:C:655:VAL:HA	1.97	0.46
1:D:298:THR:HB	1:D:601:ASN:HD22	1.80	0.46
1:D:319:SER:O	1:D:321:SER:N	2.48	0.46
1:D:422:ASN:HD22	1:D:432:ILE:CG1	2.28	0.46
1:E:232:PRO:CA	1:F:468:ARG:HH12	2.22	0.46
1:E:270:ILE:HG23	1:E:270:ILE:O	2.15	0.46
1:F:458:ASN:ND2	1:F:476:ASN:HB2	2.27	0.46
1:G:306:ASN:HA	1:H:669:ARG:HG2	1.97	0.46
1:G:310:HIS:C	1:G:312:SER:H	2.24	0.46
1:I:207:ILE:N	1:I:211:HIS:HD2	2.13	0.46
1:I:303:VAL:HG21	1:J:670:GLN:HG2	1.95	0.46
1:I:477:TRP:HB3	1:I:481:LEU:CD1	2.44	0.46
1:J:498:LEU:HD22	1:J:498:LEU:N	2.30	0.46
1:J:642:TYR:HD1	1:J:699:TYR:O	1.98	0.46
1:K:306:ASN:HA	1:L:669:ARG:CD	2.44	0.46
1:K:380:THR:HG23	1:K:395:LYS:CG	2.44	0.46
1:L:270:ILE:HG23	1:L:270:ILE:O	2.15	0.46
1:M:319:SER:O	1:M:321:SER:N	2.48	0.46
1:M:422:ASN:HD22	1:M:432:ILE:CG1	2.28	0.46
1:O:188:GLU:HG2	1:O:222:SER:C	2.40	0.46
1:O:458:ASN:ND2	1:O:476:ASN:HB2	2.27	0.46
1:O:554:PHE:HB3	1:O:558:THR:HB	1.97	0.46
1:A:380:THR:HG23	1:A:395:LYS:CG	2.45	0.46
1:A:554:PHE:HB3	1:A:558:THR:HB	1.97	0.46
1:B:260:PRO:HB2	1:B:456:TYR:CD1	2.51	0.46
1:B:319:SER:O	1:B:321:SER:N	2.48	0.46
1:B:638:ILE:HG12	1:B:639:LEU:HD22	1.95	0.46
1:D:305:GLY:HA2	1:E:670:GLN:CG	2.45	0.46
1:E:259:TYR:HD2	1:E:259:TYR:N	2.09	0.46
1:E:269:ILE:HG22	1:E:362:ALA:CB	2.44	0.46
1:E:459:ILE:HG12	1:E:477:TRP:NE1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:498:LEU:N	1:E:498:LEU:HD22	2.30	0.46
1:E:660:TYR:CE1	1:E:661:ASP:HB3	2.50	0.46
1:G:645:GLU:HA	1:G:655:VAL:HA	1.96	0.46
1:G:660:TYR:CE1	1:G:661:ASP:HB3	2.50	0.46
1:H:188:GLU:HG2	1:H:222:SER:C	2.40	0.46
1:H:270:ILE:HG23	1:H:270:ILE:O	2.15	0.46
1:H:411:TYR:CD2	1:H:412:PRO:N	2.83	0.46
1:H:639:LEU:HD22	1:H:639:LEU:N	2.29	0.46
1:I:605:VAL:HG12	1:I:704:GLU:HB3	1.96	0.46
1:J:477:TRP:HB3	1:J:481:LEU:CD1	2.44	0.46
1:J:660:TYR:CE1	1:J:661:ASP:HB3	2.50	0.46
1:K:313:PHE:HA	1:K:319:SER:HB2	1.97	0.46
1:K:645:GLU:HA	1:K:655:VAL:HA	1.97	0.46
1:L:310:HIS:C	1:L:312:SER:H	2.24	0.46
1:L:476:ASN:OD1	1:L:478:SER:HB2	2.15	0.46
1:M:380:THR:HG23	1:M:395:LYS:CG	2.45	0.46
1:A:254:PRO:C	1:A:255:LEU:HD23	2.40	0.46
1:A:260:PRO:HB2	1:A:456:TYR:CD1	2.51	0.46
1:A:269:ILE:HG22	1:A:362:ALA:CB	2.45	0.46
1:A:411:TYR:CD2	1:A:412:PRO:N	2.83	0.46
1:A:422:ASN:HD22	1:A:432:ILE:CG1	2.28	0.46
1:A:463:ASN:ND2	1:A:465:GLU:HB2	2.31	0.46
1:A:498:LEU:HD22	1:A:498:LEU:N	2.30	0.46
1:A:660:TYR:CE1	1:A:661:ASP:HB3	2.50	0.46
1:B:185:ASP:O	1:B:189:VAL:HG23	2.14	0.46
1:B:422:ASN:HD22	1:B:432:ILE:CG1	2.28	0.46
1:F:188:GLU:HG2	1:F:222:SER:C	2.40	0.46
1:F:642:TYR:HD1	1:F:699:TYR:O	1.98	0.46
1:G:207:ILE:N	1:G:211:HIS:HD2	2.13	0.46
1:H:310:HIS:C	1:H:312:SER:H	2.24	0.46
1:H:435:ASN:OD1	1:H:438:GLN:HG3	2.14	0.46
1:I:254:PRO:C	1:I:255:LEU:HD23	2.40	0.46
1:I:422:ASN:HD22	1:I:432:ILE:CG1	2.28	0.46
1:J:254:PRO:C	1:J:255:LEU:HD23	2.40	0.46
1:J:644:VAL:HG21	1:J:678:PHE:CD1	2.50	0.46
1:K:298:THR:HB	1:K:601:ASN:HD22	1.80	0.46
1:M:269:ILE:HG22	1:M:362:ALA:CB	2.44	0.46
1:M:298:THR:HB	1:M:601:ASN:HD22	1.81	0.46
1:O:269:ILE:HG22	1:O:362:ALA:CB	2.44	0.46
1:O:422:ASN:HD22	1:O:432:ILE:CG1	2.28	0.46
1:O:463:ASN:ND2	1:O:465:GLU:HB2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:ILE:N	1:A:211:HIS:HD2	2.13	0.46
1:A:248:SER:OG	1:A:371:THR:HA	2.16	0.46
1:A:270:ILE:HG23	1:A:270:ILE:O	2.15	0.46
1:A:605:VAL:HG12	1:A:704:GLU:HB3	1.96	0.46
1:A:644:VAL:HG21	1:A:678:PHE:CD1	2.50	0.46
1:B:298:THR:HB	1:B:601:ASN:HD22	1.81	0.46
1:B:324:PHE:HE1	1:B:588:ASN:CB	2.25	0.46
1:C:270:ILE:HG23	1:C:270:ILE:O	2.15	0.46
1:D:207:ILE:N	1:D:211:HIS:HD2	2.13	0.46
1:D:270:ILE:HG23	1:D:270:ILE:O	2.15	0.46
1:D:463:ASN:ND2	1:D:465:GLU:HB2	2.31	0.46
1:D:476:ASN:OD1	1:D:478:SER:HB2	2.15	0.46
1:E:260:PRO:HB2	1:E:456:TYR:CD1	2.51	0.46
1:E:378:LEU:HD22	1:E:401:LEU:CD2	2.46	0.46
1:E:708:ILE:HD12	1:E:709:ASN:N	2.29	0.46
1:F:269:ILE:HG22	1:F:362:ALA:CB	2.44	0.46
1:F:422:ASN:HD22	1:F:432:ILE:CG1	2.28	0.46
1:F:476:ASN:OD1	1:F:478:SER:HB2	2.15	0.46
1:G:223:PRO:HD2	1:G:517:THR:CG2	2.40	0.46
1:G:459:ILE:HG12	1:G:477:TRP:NE1	2.30	0.46
1:H:502:GLU:O	1:H:503:ARG:HG2	2.16	0.46
1:I:253:HIS:CE1	1:I:255:LEU:H	2.33	0.46
1:I:463:ASN:ND2	1:I:465:GLU:HB2	2.31	0.46
1:I:606:GLY:CA	1:I:638:ILE:HD12	2.39	0.46
1:I:642:TYR:HD1	1:I:699:TYR:O	1.98	0.46
1:J:313:PHE:HA	1:J:319:SER:HB2	1.97	0.46
1:J:476:ASN:OD1	1:J:478:SER:HB2	2.15	0.46
1:K:207:ILE:N	1:K:211:HIS:HD2	2.13	0.46
1:L:269:ILE:HG22	1:L:362:ALA:CB	2.44	0.46
1:L:411:TYR:CD2	1:L:412:PRO:N	2.83	0.46
1:L:463:ASN:ND2	1:L:465:GLU:HB2	2.30	0.46
1:L:645:GLU:HA	1:L:655:VAL:HA	1.96	0.46
1:M:313:PHE:HA	1:M:319:SER:HB2	1.97	0.46
1:O:310:HIS:C	1:O:312:SER:H	2.23	0.46
1:A:459:ILE:HG12	1:A:477:TRP:NE1	2.31	0.46
1:A:521:MET:HG3	1:A:583:LEU:HD12	1.97	0.46
1:B:378:LEU:HD22	1:B:401:LEU:CD2	2.46	0.46
1:C:463:ASN:ND2	1:C:465:GLU:HB2	2.31	0.46
1:C:612:VAL:O	1:C:616:HIS:ND1	2.46	0.46
1:D:310:HIS:C	1:D:312:SER:H	2.24	0.46
1:E:380:THR:HG23	1:E:395:LYS:CG	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:243:ILE:CG1	1:F:244:ASP:N	2.75	0.46
1:F:459:ILE:HG12	1:F:477:TRP:NE1	2.31	0.46
1:F:554:PHE:HB3	1:F:558:THR:HB	1.97	0.46
1:G:185:ASP:O	1:G:189:VAL:HG23	2.14	0.46
1:H:195:ASP:O	1:H:202:PHE:N	2.43	0.46
1:H:248:SER:OG	1:H:371:THR:HA	2.16	0.46
1:H:260:PRO:HB2	1:H:456:TYR:CD1	2.51	0.46
1:H:459:ILE:HG12	1:H:477:TRP:NE1	2.31	0.46
1:H:498:LEU:HD22	1:H:498:LEU:N	2.30	0.46
1:I:521:MET:HG3	1:I:583:LEU:HD12	1.97	0.46
1:J:310:HIS:C	1:J:312:SER:H	2.24	0.46
1:J:378:LEU:HD22	1:J:401:LEU:CD2	2.46	0.46
1:J:502:GLU:O	1:J:503:ARG:HG2	2.16	0.46
1:K:270:ILE:HG23	1:K:270:ILE:O	2.15	0.46
1:L:319:SER:O	1:L:321:SER:N	2.48	0.46
1:L:378:LEU:HD22	1:L:401:LEU:CD2	2.46	0.46
1:L:502:GLU:O	1:L:503:ARG:HG2	2.16	0.46
1:L:515:GLU:OE1	1:M:245:LYS:HE2	2.16	0.46
1:M:206:TRP:CZ3	1:M:211:HIS:HB3	2.51	0.46
1:M:521:MET:HG3	1:M:583:LEU:HD12	1.97	0.46
1:O:206:TRP:CZ3	1:O:211:HIS:HB3	2.51	0.46
1:A:310:HIS:C	1:A:312:SER:H	2.24	0.46
1:B:472:ASP:C	1:B:474:GLY:N	2.74	0.46
1:C:261:ILE:HG22	1:C:369:THR:HG23	1.98	0.46
1:D:502:GLU:O	1:D:503:ARG:HG2	2.16	0.46
1:E:310:HIS:CD2	1:E:312:SER:HB2	2.49	0.46
1:E:502:GLU:O	1:E:503:ARG:HG2	2.16	0.46
1:F:270:ILE:HG23	1:F:270:ILE:O	2.15	0.46
1:F:472:ASP:C	1:F:474:GLY:N	2.74	0.46
1:G:188:GLU:HG2	1:G:222:SER:C	2.40	0.46
1:G:498:LEU:HD22	1:G:498:LEU:N	2.30	0.46
1:G:515:GLU:OE1	1:H:245:LYS:HE2	2.16	0.46
1:H:223:PRO:HD2	1:H:517:THR:CG2	2.40	0.46
1:H:422:ASN:HD22	1:H:432:ILE:CG1	2.28	0.46
1:I:206:TRP:CZ3	1:I:211:HIS:HB3	2.51	0.46
1:I:260:PRO:HB2	1:I:456:TYR:CD1	2.51	0.46
1:I:313:PHE:HA	1:I:319:SER:HB2	1.97	0.46
1:I:366:TYR:O	1:I:411:TYR:N	2.27	0.46
1:J:463:ASN:ND2	1:J:465:GLU:HB2	2.31	0.46
1:K:310:HIS:CD2	1:K:312:SER:HB2	2.49	0.46
1:K:502:GLU:O	1:K:503:ARG:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:195:ASP:O	1:M:202:PHE:N	2.43	0.46
1:M:459:ILE:HG12	1:M:477:TRP:NE1	2.31	0.46
1:M:463:ASN:ND2	1:M:465:GLU:HB2	2.31	0.46
1:O:502:GLU:O	1:O:503:ARG:HG2	2.16	0.46
1:O:521:MET:HG3	1:O:583:LEU:HD12	1.97	0.46
1:O:644:VAL:HG21	1:O:678:PHE:CD1	2.50	0.46
1:A:458:ASN:ND2	1:A:476:ASN:HB2	2.27	0.46
1:B:206:TRP:CZ3	1:B:211:HIS:HB3	2.51	0.46
1:B:253:HIS:CE1	1:B:255:LEU:H	2.33	0.46
1:B:261:ILE:HG22	1:B:369:THR:HG23	1.98	0.46
1:B:270:ILE:HG23	1:B:270:ILE:O	2.15	0.46
1:B:463:ASN:ND2	1:B:465:GLU:HB2	2.31	0.46
1:B:554:PHE:HB3	1:B:558:THR:HB	1.97	0.46
1:C:188:GLU:HG2	1:C:222:SER:C	2.40	0.46
1:C:207:ILE:N	1:C:211:HIS:HD2	2.13	0.46
1:C:472:ASP:C	1:C:474:GLY:N	2.74	0.46
1:D:378:LEU:HD22	1:D:401:LEU:CD2	2.46	0.46
1:E:472:ASP:C	1:E:474:GLY:N	2.74	0.46
1:F:206:TRP:CZ3	1:F:211:HIS:HB3	2.51	0.46
1:F:319:SER:O	1:F:321:SER:N	2.48	0.46
1:F:459:ILE:HG12	1:F:477:TRP:CD1	2.50	0.46
1:F:660:TYR:CE1	1:F:661:ASP:HB3	2.50	0.46
1:G:502:GLU:O	1:G:503:ARG:HG2	2.16	0.46
1:H:325:SER:OG	1:I:415:ASN:ND2	2.48	0.46
1:H:459:ILE:HG12	1:H:477:TRP:CD1	2.50	0.46
1:I:248:SER:OG	1:I:371:THR:HA	2.16	0.46
1:I:261:ILE:HG22	1:I:369:THR:HG23	1.98	0.46
1:I:298:THR:HB	1:I:601:ASN:HD22	1.81	0.46
1:J:422:ASN:HD22	1:J:432:ILE:CG1	2.28	0.46
1:K:260:PRO:HB2	1:K:456:TYR:CD1	2.51	0.46
1:K:310:HIS:C	1:K:312:SER:H	2.24	0.46
1:L:554:PHE:HB3	1:L:558:THR:HB	1.97	0.46
1:M:253:HIS:CE1	1:M:255:LEU:HG	2.46	0.46
1:A:188:GLU:HG2	1:A:222:SER:C	2.40	0.46
1:A:261:ILE:HG22	1:A:369:THR:HG23	1.98	0.46
1:A:584:ASN:HB2	1:A:587:MET:HE3	1.96	0.46
1:B:459:ILE:HG12	1:B:477:TRP:NE1	2.31	0.46
1:C:660:TYR:CE1	1:C:661:ASP:HB3	2.50	0.46
1:D:175:VAL:HA	1:D:176:PRO:HD3	1.80	0.46
1:F:378:LEU:HD22	1:F:401:LEU:CD2	2.46	0.46
1:G:254:PRO:C	1:G:255:LEU:HD23	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:554:PHE:HB3	1:G:558:THR:HB	1.97	0.46
1:H:243:ILE:CG1	1:H:244:ASP:N	2.75	0.46
1:H:463:ASN:ND2	1:H:465:GLU:HB2	2.30	0.46
1:I:554:PHE:HB3	1:I:558:THR:HB	1.97	0.46
1:J:270:ILE:O	1:J:270:ILE:HG23	2.15	0.46
1:J:521:MET:HG3	1:J:583:LEU:HD12	1.97	0.46
1:K:422:ASN:HD22	1:K:432:ILE:CG1	2.28	0.46
1:L:253:HIS:CE1	1:L:255:LEU:H	2.33	0.46
1:M:502:GLU:O	1:M:503:ARG:HG2	2.16	0.46
1:A:298:THR:HB	1:A:601:ASN:HD22	1.80	0.46
1:A:324:PHE:HE1	1:A:588:ASN:CB	2.25	0.46
1:A:378:LEU:HD22	1:A:401:LEU:CD2	2.46	0.46
1:A:502:GLU:O	1:A:503:ARG:HG2	2.16	0.46
1:C:502:GLU:O	1:C:503:ARG:HG2	2.16	0.46
1:D:261:ILE:HG22	1:D:369:THR:HG23	1.98	0.46
1:E:463:ASN:ND2	1:E:465:GLU:HB2	2.30	0.46
1:F:310:HIS:C	1:F:312:SER:H	2.24	0.46
1:F:364:ILE:CD1	1:F:419:ILE:HB	2.46	0.46
1:F:463:ASN:ND2	1:F:465:GLU:HB2	2.31	0.46
1:G:306:ASN:HA	1:H:669:ARG:HB3	1.97	0.46
1:J:269:ILE:HG22	1:J:362:ALA:CB	2.44	0.46
1:J:459:ILE:HG12	1:J:477:TRP:NE1	2.30	0.46
1:K:554:PHE:HB3	1:K:558:THR:HB	1.97	0.46
1:M:378:LEU:HD22	1:M:401:LEU:CD2	2.46	0.46
1:O:298:THR:HB	1:O:601:ASN:HD22	1.81	0.46
1:O:319:SER:O	1:O:321:SER:N	2.48	0.46
1:O:459:ILE:HG12	1:O:477:TRP:NE1	2.31	0.46
1:B:513:PRO:HB2	1:C:240:THR:O	2.16	0.46
1:C:459:ILE:HG12	1:C:477:TRP:NE1	2.31	0.46
1:D:585:ALA:O	1:D:586:LYS:HB2	2.16	0.46
1:E:253:HIS:CE1	1:E:255:LEU:HG	2.46	0.46
1:E:310:HIS:C	1:E:312:SER:H	2.24	0.46
1:E:364:ILE:CD1	1:E:419:ILE:HB	2.46	0.46
1:E:368:ASN:HD22	1:E:406:ALA:C	2.24	0.46
1:E:422:ASN:HD22	1:E:432:ILE:CG1	2.28	0.46
1:F:502:GLU:O	1:F:503:ARG:HG2	2.16	0.46
1:G:226:TRP:CZ2	1:G:234:SER:HB3	2.51	0.46
1:G:463:ASN:ND2	1:G:465:GLU:HB2	2.31	0.46
1:G:585:ALA:O	1:G:586:LYS:HB2	2.16	0.46
1:H:253:HIS:CE1	1:H:255:LEU:H	2.33	0.46
1:H:476:ASN:OD1	1:H:478:SER:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:226:TRP:CZ2	1:I:234:SER:HB3	2.51	0.46
1:J:585:ALA:O	1:J:586:LYS:HB2	2.16	0.46
1:K:206:TRP:CZ3	1:K:211:HIS:HB3	2.51	0.46
1:K:248:SER:OG	1:K:371:THR:HA	2.16	0.46
1:K:378:LEU:HD22	1:K:401:LEU:CD2	2.46	0.46
1:K:463:ASN:ND2	1:K:465:GLU:HB2	2.31	0.46
1:K:515:GLU:OE1	1:L:245:LYS:HE2	2.15	0.46
1:L:422:ASN:HD22	1:L:432:ILE:CG1	2.28	0.46
1:M:270:ILE:HG23	1:M:270:ILE:O	2.15	0.46
1:M:660:TYR:CE1	1:M:661:ASP:HB3	2.50	0.46
1:O:226:TRP:CZ2	1:O:234:SER:HB3	2.51	0.46
1:A:468:ARG:HH12	1:O:232:PRO:HA	1.81	0.45
1:A:533:PHE:HB3	1:A:540:LEU:CD1	2.46	0.45
1:B:502:GLU:O	1:B:503:ARG:HG2	2.16	0.45
1:C:260:PRO:HB2	1:C:456:TYR:CD1	2.51	0.45
1:C:318:GLY:C	1:C:320:VAL:H	2.24	0.45
1:D:368:ASN:HD22	1:D:406:ALA:C	2.25	0.45
1:E:521:MET:HG3	1:E:583:LEU:HD12	1.97	0.45
1:G:206:TRP:CZ3	1:G:211:HIS:HB3	2.51	0.45
1:H:319:SER:CA	1:I:414:LYS:CG	2.82	0.45
1:H:368:ASN:HD22	1:H:406:ALA:C	2.25	0.45
1:I:459:ILE:HG12	1:I:477:TRP:NE1	2.31	0.45
1:I:502:GLU:O	1:I:503:ARG:HG2	2.16	0.45
1:J:206:TRP:CZ3	1:J:211:HIS:HB3	2.51	0.45
1:J:261:ILE:HG22	1:J:369:THR:HG23	1.98	0.45
1:J:482:PRO:HB3	1:K:246:ASN:HD21	1.81	0.45
1:K:364:ILE:CD1	1:K:419:ILE:HB	2.46	0.45
1:K:472:ASP:C	1:K:474:GLY:N	2.74	0.45
1:L:248:SER:OG	1:L:371:THR:HA	2.16	0.45
1:L:368:ASN:HD22	1:L:406:ALA:C	2.24	0.45
1:M:364:ILE:CD1	1:M:419:ILE:HB	2.46	0.45
1:O:368:ASN:HD22	1:O:406:ALA:C	2.25	0.45
1:O:498:LEU:HD22	1:O:498:LEU:N	2.30	0.45
1:A:226:TRP:CZ2	1:A:234:SER:HB3	2.51	0.45
1:B:248:SER:OG	1:B:371:THR:HA	2.16	0.45
1:B:521:MET:HG3	1:B:583:LEU:HD12	1.97	0.45
1:C:310:HIS:C	1:C:312:SER:H	2.24	0.45
1:C:313:PHE:HA	1:C:319:SER:HB2	1.97	0.45
1:C:554:PHE:HB3	1:C:558:THR:HB	1.97	0.45
1:D:206:TRP:CZ3	1:D:211:HIS:HB3	2.51	0.45
1:D:226:TRP:CZ2	1:D:234:SER:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:248:SER:OG	1:D:371:THR:HA	2.16	0.45
1:D:521:MET:HG3	1:D:583:LEU:HD12	1.97	0.45
1:E:642:TYR:HD1	1:E:699:TYR:O	1.98	0.45
1:G:260:PRO:HB2	1:G:456:TYR:CD1	2.51	0.45
1:G:472:ASP:C	1:G:474:GLY:N	2.74	0.45
1:I:324:PHE:HE1	1:I:588:ASN:CB	2.25	0.45
1:J:189:VAL:HG13	1:K:199:LYS:CB	2.46	0.45
1:J:298:THR:HB	1:J:601:ASN:HD22	1.81	0.45
1:K:306:ASN:HA	1:L:669:ARG:HD3	1.97	0.45
1:L:459:ILE:HG12	1:L:477:TRP:NE1	2.31	0.45
1:L:585:ALA:O	1:L:586:LYS:HB2	2.16	0.45
1:M:260:PRO:HB2	1:M:456:TYR:CD1	2.51	0.45
1:M:585:ALA:O	1:M:586:LYS:HB2	2.16	0.45
1:M:606:GLY:CA	1:M:638:ILE:HD12	2.39	0.45
1:O:207:ILE:N	1:O:211:HIS:HD2	2.13	0.45
1:B:232:PRO:HA	1:C:468:ARG:HH12	1.80	0.45
1:B:606:GLY:CA	1:B:638:ILE:HD12	2.39	0.45
1:C:248:SER:OG	1:C:371:THR:HA	2.16	0.45
1:C:422:ASN:HD22	1:C:432:ILE:CG1	2.28	0.45
1:E:318:GLY:C	1:E:320:VAL:H	2.24	0.45
1:F:226:TRP:CZ2	1:F:234:SER:HB3	2.51	0.45
1:F:253:HIS:CE1	1:F:255:LEU:H	2.33	0.45
1:G:261:ILE:HG22	1:G:369:THR:HG23	1.98	0.45
1:G:364:ILE:CD1	1:G:419:ILE:HB	2.46	0.45
1:H:378:LEU:HD22	1:H:401:LEU:CD2	2.46	0.45
1:H:521:MET:HG3	1:H:583:LEU:HD12	1.97	0.45
1:I:189:VAL:HG13	1:J:199:LYS:HG3	1.98	0.45
1:I:378:LEU:HD22	1:I:401:LEU:CD2	2.46	0.45
1:I:476:ASN:OD1	1:I:478:SER:HB2	2.15	0.45
1:J:260:PRO:HB2	1:J:456:TYR:CD1	2.51	0.45
1:K:585:ALA:O	1:K:586:LYS:HB2	2.16	0.45
1:L:260:PRO:HB2	1:L:456:TYR:CD1	2.51	0.45
1:L:364:ILE:CD1	1:L:419:ILE:HB	2.46	0.45
1:M:458:ASN:HA	1:M:476:ASN:HA	1.99	0.45
1:O:260:PRO:HB2	1:O:456:TYR:CD1	2.51	0.45
1:O:472:ASP:C	1:O:474:GLY:N	2.74	0.45
1:A:259:TYR:HD2	1:A:259:TYR:N	2.09	0.45
1:A:585:ALA:O	1:A:586:LYS:HB2	2.16	0.45
1:D:195:ASP:O	1:D:202:PHE:N	2.43	0.45
1:D:260:PRO:HB2	1:D:456:TYR:CD1	2.51	0.45
1:E:206:TRP:CZ3	1:E:211:HIS:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:SER:OG	1:E:371:THR:HA	2.16	0.45
1:F:207:ILE:N	1:F:211:HIS:HD2	2.13	0.45
1:F:458:ASN:HA	1:F:476:ASN:HA	1.99	0.45
1:F:612:VAL:O	1:F:616:HIS:ND1	2.46	0.45
1:G:248:SER:OG	1:G:371:THR:HA	2.16	0.45
1:G:378:LEU:HD22	1:G:401:LEU:CD2	2.46	0.45
1:H:207:ILE:N	1:H:211:HIS:HD2	2.13	0.45
1:H:364:ILE:CD1	1:H:419:ILE:HB	2.46	0.45
1:I:310:HIS:C	1:I:312:SER:H	2.24	0.45
1:J:207:ILE:N	1:J:211:HIS:HD2	2.13	0.45
1:J:472:ASP:C	1:J:474:GLY:N	2.74	0.45
1:J:554:PHE:HB3	1:J:558:THR:HB	1.97	0.45
1:K:368:ASN:HD22	1:K:406:ALA:C	2.25	0.45
1:L:226:TRP:CZ2	1:L:234:SER:HB3	2.51	0.45
1:M:324:PHE:HE1	1:M:588:ASN:CB	2.25	0.45
1:A:245:LYS:CE	1:O:512:ASP:OD1	2.57	0.45
1:C:206:TRP:CZ3	1:C:211:HIS:HB3	2.51	0.45
1:C:272:SER:CA	1:C:350:MET:HE3	2.47	0.45
1:C:298:THR:HB	1:C:601:ASN:HD22	1.80	0.45
1:D:324:PHE:HE1	1:D:588:ASN:CB	2.25	0.45
1:F:260:PRO:HB2	1:F:456:TYR:CD1	2.51	0.45
1:F:272:SER:CA	1:F:350:MET:HE3	2.47	0.45
1:F:521:MET:HG3	1:F:583:LEU:HD12	1.97	0.45
1:H:585:ALA:O	1:H:586:LYS:HB2	2.16	0.45
1:I:253:HIS:HA	1:I:254:PRO:HD3	1.82	0.45
1:I:311:ALA:HA	1:J:668:LEU:CD2	2.43	0.45
1:J:318:GLY:C	1:J:320:VAL:H	2.24	0.45
1:K:459:ILE:HG12	1:K:477:TRP:NE1	2.31	0.45
1:K:521:MET:HG3	1:K:583:LEU:HD12	1.97	0.45
1:L:206:TRP:CZ3	1:L:211:HIS:HB3	2.51	0.45
1:L:243:ILE:CG1	1:L:244:ASP:N	2.75	0.45
1:L:261:ILE:HG22	1:L:369:THR:HG23	1.98	0.45
1:L:458:ASN:HA	1:L:476:ASN:HA	1.99	0.45
1:L:472:ASP:C	1:L:474:GLY:N	2.74	0.45
1:L:642:TYR:HD1	1:L:699:TYR:O	1.98	0.45
1:B:189:VAL:HG13	1:C:199:LYS:CG	2.46	0.45
1:B:310:HIS:C	1:B:312:SER:H	2.24	0.45
1:B:368:ASN:HD22	1:B:406:ALA:C	2.25	0.45
1:B:458:ASN:ND2	1:B:476:ASN:HB2	2.27	0.45
1:C:585:ALA:O	1:C:586:LYS:HB2	2.16	0.45
1:C:627:LEU:HD11	1:C:727:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:403:GLN:HE21	1:D:403:GLN:N	2.05	0.45
1:E:195:ASP:HB2	1:E:216:LEU:HD11	1.99	0.45
1:E:261:ILE:HG22	1:E:369:THR:HG23	1.98	0.45
1:H:226:TRP:CZ2	1:H:234:SER:HB3	2.51	0.45
1:H:491:ILE:HG12	1:H:589:ILE:HB	1.99	0.45
1:I:458:ASN:HA	1:I:476:ASN:HA	1.99	0.45
1:I:644:VAL:HG21	1:I:678:PHE:CD1	2.50	0.45
1:J:248:SER:OG	1:J:371:THR:HA	2.16	0.45
1:J:368:ASN:HD22	1:J:406:ALA:C	2.25	0.45
1:L:479:GLU:OE1	1:M:470:ARG:HA	2.17	0.45
1:L:660:TYR:CE1	1:L:661:ASP:HB3	2.50	0.45
1:O:240:THR:HG23	1:O:242:ARG:HG3	1.99	0.45
1:O:318:GLY:C	1:O:320:VAL:H	2.24	0.45
1:O:364:ILE:CD1	1:O:419:ILE:HB	2.46	0.45
1:O:378:LEU:HD22	1:O:401:LEU:CD2	2.46	0.45
1:A:240:THR:HG23	1:A:242:ARG:HG3	1.99	0.45
1:A:368:ASN:HD22	1:A:406:ALA:C	2.24	0.45
1:B:195:ASP:O	1:B:202:PHE:N	2.43	0.45
1:B:239:VAL:HG23	1:B:240:THR:N	2.32	0.45
1:B:272:SER:CA	1:B:350:MET:HE3	2.47	0.45
1:D:235:ASP:O	1:D:239:VAL:HG22	2.17	0.45
1:D:253:HIS:CE1	1:D:255:LEU:H	2.33	0.45
1:D:459:ILE:HG12	1:D:477:TRP:NE1	2.31	0.45
1:E:480:VAL:HG22	1:F:468:ARG:HD3	1.99	0.45
1:E:627:LEU:HD11	1:E:727:PHE:CD2	2.52	0.45
1:F:261:ILE:HG22	1:F:369:THR:HG23	1.98	0.45
1:F:318:GLY:C	1:F:320:VAL:H	2.24	0.45
1:G:239:VAL:HG23	1:G:240:THR:N	2.32	0.45
1:H:195:ASP:HB2	1:H:216:LEU:HD11	1.99	0.45
1:H:239:VAL:HG23	1:H:240:THR:N	2.32	0.45
1:H:298:THR:HB	1:H:601:ASN:HD22	1.80	0.45
1:H:483:GLN:NE2	1:I:469:VAL:HG21	2.30	0.45
1:I:319:SER:O	1:I:321:SER:N	2.48	0.45
1:I:364:ILE:CD1	1:I:419:ILE:HB	2.46	0.45
1:J:235:ASP:O	1:J:239:VAL:HG22	2.17	0.45
1:J:272:SER:CA	1:J:350:MET:HE3	2.47	0.45
1:M:368:ASN:HD22	1:M:406:ALA:C	2.24	0.45
1:M:627:LEU:HD11	1:M:727:PHE:CD2	2.52	0.45
1:A:195:ASP:HB2	1:A:216:LEU:HD11	1.99	0.45
1:A:318:GLY:C	1:A:320:VAL:H	2.24	0.45
1:A:364:ILE:CD1	1:A:419:ILE:HB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:318:GLY:C	1:B:320:VAL:H	2.24	0.45
1:B:458:ASN:HA	1:B:476:ASN:HA	1.99	0.45
1:C:364:ILE:CD1	1:C:419:ILE:HB	2.46	0.45
1:D:195:ASP:HB2	1:D:216:LEU:HD11	1.99	0.45
1:E:458:ASN:HA	1:E:476:ASN:HA	1.99	0.45
1:E:533:PHE:HB3	1:E:540:LEU:CD1	2.46	0.45
1:E:585:ALA:O	1:E:586:LYS:HB2	2.16	0.45
1:F:627:LEU:HD11	1:F:727:PHE:CD2	2.52	0.45
1:G:195:ASP:O	1:G:202:PHE:N	2.43	0.45
1:G:269:ILE:HG22	1:G:362:ALA:CB	2.44	0.45
1:G:298:THR:HB	1:G:601:ASN:HD22	1.80	0.45
1:G:458:ASN:HA	1:G:476:ASN:HA	1.99	0.45
1:H:206:TRP:CZ3	1:H:211:HIS:HB3	2.51	0.45
1:I:195:ASP:HB2	1:I:216:LEU:HD11	1.99	0.45
1:J:458:ASN:HA	1:J:476:ASN:HA	1.99	0.45
1:K:195:ASP:HB2	1:K:216:LEU:HD11	1.99	0.45
1:K:226:TRP:CZ2	1:K:234:SER:HB3	2.51	0.45
1:K:261:ILE:HG22	1:K:369:THR:HG23	1.98	0.45
1:L:239:VAL:HG23	1:L:240:THR:N	2.32	0.45
1:L:627:LEU:HD11	1:L:727:PHE:CD2	2.52	0.45
1:M:318:GLY:C	1:M:320:VAL:H	2.24	0.45
1:O:235:ASP:O	1:O:239:VAL:HG22	2.17	0.45
1:O:239:VAL:HG23	1:O:240:THR:N	2.32	0.45
1:O:248:SER:OG	1:O:371:THR:HA	2.16	0.45
1:O:261:ILE:HG22	1:O:369:THR:HG23	1.98	0.45
1:O:272:SER:CA	1:O:350:MET:HE3	2.47	0.45
1:B:189:VAL:HG13	1:C:199:LYS:HB2	1.99	0.45
1:B:231:ASP:HA	1:B:484:ILE:HD11	1.99	0.45
1:B:235:ASP:O	1:B:239:VAL:HG22	2.17	0.45
1:C:226:TRP:CZ2	1:C:234:SER:HB3	2.51	0.45
1:C:231:ASP:HA	1:C:484:ILE:HD11	1.99	0.45
1:D:231:ASP:HA	1:D:484:ILE:HD11	1.99	0.45
1:F:585:ALA:O	1:F:586:LYS:HB2	2.16	0.45
1:G:240:THR:HG23	1:G:242:ARG:HG3	1.99	0.45
1:H:319:SER:O	1:H:321:SER:N	2.48	0.45
1:I:318:GLY:C	1:I:320:VAL:H	2.24	0.45
1:J:226:TRP:CZ2	1:J:234:SER:HB3	2.51	0.45
1:J:364:ILE:CD1	1:J:419:ILE:HB	2.46	0.45
1:J:491:ILE:HG12	1:J:589:ILE:HB	1.99	0.45
1:K:231:ASP:HA	1:K:484:ILE:HD11	1.99	0.45
1:K:318:GLY:C	1:K:320:VAL:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:380:THR:HG23	1:K:395:LYS:HG3	1.99	0.45
1:M:235:ASP:O	1:M:239:VAL:HG22	2.17	0.45
1:M:310:HIS:C	1:M:312:SER:H	2.24	0.45
1:O:606:GLY:CA	1:O:638:ILE:HD12	2.39	0.45
1:O:612:VAL:O	1:O:616:HIS:ND1	2.46	0.45
1:A:469:VAL:HG21	1:O:483:GLN:NE2	2.32	0.45
1:B:364:ILE:CD1	1:B:419:ILE:HB	2.46	0.45
1:B:585:ALA:O	1:B:586:LYS:HB2	2.16	0.45
1:C:195:ASP:HB2	1:C:216:LEU:HD11	1.99	0.45
1:C:235:ASP:O	1:C:239:VAL:HG22	2.17	0.45
1:D:364:ILE:CD1	1:D:419:ILE:HB	2.46	0.45
1:D:458:ASN:HA	1:D:476:ASN:HA	1.99	0.45
1:F:235:ASP:O	1:F:239:VAL:HG22	2.17	0.45
1:F:483:GLN:HE22	1:O:245:LYS:H	1.63	0.45
1:H:261:ILE:HG22	1:H:369:THR:HG23	1.98	0.45
1:I:483:GLN:NE2	1:J:245:LYS:HG2	2.32	0.45
1:J:195:ASP:HB2	1:J:216:LEU:HD11	1.99	0.45
1:K:235:ASP:O	1:K:239:VAL:HG22	2.17	0.45
1:K:533:PHE:HB3	1:K:540:LEU:CD1	2.46	0.45
1:L:318:GLY:C	1:L:320:VAL:H	2.24	0.45
1:A:723:LYS:H	1:A:723:LYS:HG2	1.64	0.44
1:B:240:THR:HG23	1:B:242:ARG:HG3	1.99	0.44
1:B:627:LEU:HD11	1:B:727:PHE:CD2	2.52	0.44
1:C:380:THR:HG23	1:C:395:LYS:HG3	2.00	0.44
1:F:644:VAL:HG21	1:F:678:PHE:CD1	2.50	0.44
1:I:239:VAL:HG23	1:I:240:THR:N	2.32	0.44
1:I:491:ILE:HG12	1:I:589:ILE:HB	1.99	0.44
1:I:585:ALA:O	1:I:586:LYS:HB2	2.16	0.44
1:L:195:ASP:HB2	1:L:216:LEU:HD11	1.99	0.44
1:L:226:TRP:CB	1:M:466:ASN:O	2.65	0.44
1:L:298:THR:HB	1:L:601:ASN:HD22	1.81	0.44
1:L:491:ILE:HG12	1:L:589:ILE:HB	1.99	0.44
1:O:585:ALA:O	1:O:586:LYS:HB2	2.16	0.44
1:O:627:LEU:HD11	1:O:727:PHE:CD2	2.52	0.44
1:B:612:VAL:O	1:B:616:HIS:ND1	2.46	0.44
1:C:253:HIS:CE1	1:C:255:LEU:H	2.33	0.44
1:D:243:ILE:CG1	1:D:244:ASP:N	2.75	0.44
1:E:226:TRP:CZ2	1:E:234:SER:HB3	2.51	0.44
1:F:195:ASP:HB2	1:F:216:LEU:HD11	1.99	0.44
1:F:248:SER:OG	1:F:371:THR:HA	2.16	0.44
1:F:298:THR:HB	1:F:601:ASN:HD22	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:318:GLY:C	1:G:320:VAL:H	2.24	0.44
1:G:627:LEU:HD11	1:G:727:PHE:CD2	2.52	0.44
1:H:240:THR:HG23	1:H:242:ARG:HG3	1.99	0.44
1:H:458:ASN:HA	1:H:476:ASN:HA	1.99	0.44
1:I:306:ASN:HA	1:J:669:ARG:HD3	1.99	0.44
1:J:195:ASP:O	1:J:202:PHE:N	2.43	0.44
1:J:231:ASP:HA	1:J:484:ILE:HD11	1.99	0.44
1:K:239:VAL:HG23	1:K:240:THR:N	2.32	0.44
1:K:272:SER:CA	1:K:350:MET:HE3	2.47	0.44
1:K:307:ALA:O	1:L:669:ARG:HA	2.17	0.44
1:K:491:ILE:HG12	1:K:589:ILE:HB	1.99	0.44
1:L:207:ILE:HB	1:L:211:HIS:CD2	2.53	0.44
1:L:235:ASP:O	1:L:239:VAL:HG22	2.17	0.44
1:L:253:HIS:HA	1:L:254:PRO:HD3	1.83	0.44
1:L:454:GLN:HA	1:L:456:TYR:HE2	1.82	0.44
1:L:584:ASN:H	1:L:587:MET:HE1	1.82	0.44
1:M:248:SER:OG	1:M:371:THR:HA	2.16	0.44
1:A:235:ASP:O	1:A:239:VAL:HG22	2.17	0.44
1:A:466:ASN:O	1:O:226:TRP:CB	2.61	0.44
1:B:491:ILE:HG12	1:B:589:ILE:HB	1.99	0.44
1:C:378:LEU:HD22	1:C:401:LEU:CD2	2.46	0.44
1:D:269:ILE:HG22	1:D:362:ALA:CB	2.44	0.44
1:E:231:ASP:HA	1:E:484:ILE:HD11	1.99	0.44
1:E:253:HIS:CE1	1:E:255:LEU:H	2.33	0.44
1:E:272:SER:CA	1:E:350:MET:HE3	2.47	0.44
1:F:368:ASN:HD22	1:F:406:ALA:C	2.25	0.44
1:F:512:ASP:OD1	1:O:245:LYS:CE	2.56	0.44
1:G:253:HIS:CE1	1:G:255:LEU:H	2.33	0.44
1:G:491:ILE:HG12	1:G:589:ILE:HB	1.99	0.44
1:H:207:ILE:HB	1:H:211:HIS:CD2	2.53	0.44
1:I:240:THR:HG23	1:I:242:ARG:HG3	1.99	0.44
1:I:269:ILE:HG22	1:I:362:ALA:CB	2.44	0.44
1:I:368:ASN:HD22	1:I:406:ALA:C	2.25	0.44
1:I:627:LEU:HD11	1:I:727:PHE:CD2	2.52	0.44
1:J:240:THR:HG23	1:J:242:ARG:HG3	1.99	0.44
1:K:627:LEU:HD11	1:K:727:PHE:CD2	2.52	0.44
1:L:272:SER:CA	1:L:350:MET:HE3	2.47	0.44
1:M:223:PRO:HD2	1:M:517:THR:CG2	2.40	0.44
1:M:239:VAL:HG23	1:M:240:THR:N	2.32	0.44
1:A:207:ILE:HB	1:A:211:HIS:CD2	2.53	0.44
1:A:458:ASN:HA	1:A:476:ASN:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:195:ASP:HB2	1:B:216:LEU:HD11	1.99	0.44
1:B:226:TRP:CZ2	1:B:234:SER:HB3	2.51	0.44
1:B:470:ARG:HG2	1:B:471:VAL:H	1.83	0.44
1:C:239:VAL:HG23	1:C:240:THR:N	2.32	0.44
1:C:368:ASN:HD22	1:C:406:ALA:C	2.25	0.44
1:D:584:ASN:H	1:D:587:MET:HE1	1.82	0.44
1:D:627:LEU:HD11	1:D:727:PHE:CD2	2.52	0.44
1:F:240:THR:HG23	1:F:242:ARG:HG3	1.99	0.44
1:F:491:ILE:HG12	1:F:589:ILE:HB	1.99	0.44
1:G:207:ILE:HB	1:G:211:HIS:CD2	2.53	0.44
1:G:380:THR:HG23	1:G:395:LYS:HG3	2.00	0.44
1:H:272:SER:CA	1:H:350:MET:HE3	2.47	0.44
1:H:318:GLY:C	1:H:320:VAL:H	2.24	0.44
1:H:627:LEU:HD11	1:H:727:PHE:CD2	2.52	0.44
1:J:207:ILE:HB	1:J:211:HIS:CD2	2.53	0.44
1:J:325:SER:OG	1:K:415:ASN:ND2	2.50	0.44
1:J:532:GLY:O	1:J:533:PHE:C	2.61	0.44
1:J:627:LEU:HD11	1:J:727:PHE:CD2	2.52	0.44
1:L:240:THR:HG23	1:L:242:ARG:HG3	1.99	0.44
1:M:226:TRP:CZ2	1:M:234:SER:HB3	2.51	0.44
1:M:231:ASP:HA	1:M:484:ILE:HD11	1.99	0.44
1:M:491:ILE:HG12	1:M:589:ILE:HB	1.99	0.44
1:A:206:TRP:CZ3	1:A:211:HIS:HB3	2.51	0.44
1:A:239:VAL:HG23	1:A:240:THR:N	2.32	0.44
1:A:243:ILE:CG1	1:A:244:ASP:N	2.75	0.44
1:B:558:THR:HG23	1:B:587:MET:CG	2.48	0.44
1:C:223:PRO:HD2	1:C:517:THR:CG2	2.40	0.44
1:D:318:GLY:C	1:D:320:VAL:H	2.24	0.44
1:D:532:GLY:O	1:D:533:PHE:C	2.61	0.44
1:D:612:VAL:O	1:D:616:HIS:ND1	2.46	0.44
1:G:368:ASN:HD22	1:G:406:ALA:C	2.25	0.44
1:G:532:GLY:O	1:G:533:PHE:C	2.61	0.44
1:J:239:VAL:HG23	1:J:240:THR:N	2.32	0.44
1:K:458:ASN:HA	1:K:476:ASN:HA	1.99	0.44
1:K:606:GLY:CA	1:K:638:ILE:HD12	2.39	0.44
1:M:240:THR:HG23	1:M:242:ARG:HG3	1.99	0.44
1:M:380:THR:HG23	1:M:395:LYS:HG3	2.00	0.44
1:M:533:PHE:HB3	1:M:540:LEU:CD1	2.46	0.44
1:O:380:THR:HG23	1:O:395:LYS:HG3	2.00	0.44
1:O:532:GLY:O	1:O:533:PHE:C	2.61	0.44
1:B:516:THR:HB	1:C:196:VAL:HG11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:189:VAL:HG13	1:D:199:LYS:CB	2.48	0.44
1:C:207:ILE:HB	1:C:211:HIS:CD2	2.53	0.44
1:D:470:ARG:HG2	1:D:471:VAL:H	1.83	0.44
1:E:235:ASP:O	1:E:239:VAL:HG22	2.17	0.44
1:E:319:SER:O	1:E:321:SER:N	2.48	0.44
1:E:470:ARG:HG2	1:E:471:VAL:H	1.83	0.44
1:E:589:ILE:HG22	1:E:590:LEU:N	2.33	0.44
1:E:701:VAL:HG12	1:E:706:THR:HB	2.00	0.44
1:F:558:THR:HG23	1:F:587:MET:CG	2.48	0.44
1:F:600:ARG:HG2	1:F:600:ARG:NH1	2.33	0.44
1:G:235:ASP:O	1:G:239:VAL:HG22	2.17	0.44
1:G:306:ASN:HA	1:H:669:ARG:CB	2.47	0.44
1:H:513:PRO:HB2	1:I:240:THR:O	2.17	0.44
1:I:272:SER:CA	1:I:350:MET:HE3	2.47	0.44
1:K:195:ASP:O	1:K:202:PHE:N	2.43	0.44
1:K:558:THR:HG23	1:K:587:MET:CG	2.48	0.44
1:K:701:VAL:HG12	1:K:706:THR:HB	2.00	0.44
1:M:272:SER:CA	1:M:350:MET:HE3	2.47	0.44
1:M:472:ASP:C	1:M:474:GLY:N	2.74	0.44
1:O:491:ILE:HG12	1:O:589:ILE:HB	1.99	0.44
1:O:600:ARG:HG2	1:O:600:ARG:NH1	2.33	0.44
1:A:272:SER:CA	1:A:350:MET:HE3	2.47	0.44
1:A:627:LEU:HD11	1:A:727:PHE:CD2	2.52	0.44
1:B:643:ILE:O	1:B:698:VAL:HA	2.18	0.44
1:C:240:THR:HG23	1:C:242:ARG:HG3	1.99	0.44
1:C:532:GLY:O	1:C:533:PHE:C	2.61	0.44
1:C:644:VAL:HG21	1:C:678:PHE:CD1	2.50	0.44
1:D:272:SER:CA	1:D:350:MET:HE3	2.47	0.44
1:E:532:GLY:O	1:E:533:PHE:C	2.61	0.44
1:E:723:LYS:H	1:E:723:LYS:HG2	1.64	0.44
1:G:644:VAL:HG21	1:G:678:PHE:CD1	2.50	0.44
1:H:644:VAL:HG21	1:H:678:PHE:CD1	2.50	0.44
1:I:532:GLY:O	1:I:533:PHE:C	2.61	0.44
1:I:612:VAL:O	1:I:616:HIS:ND1	2.46	0.44
1:J:643:ILE:O	1:J:698:VAL:HA	2.18	0.44
1:K:240:THR:HG23	1:K:242:ARG:HG3	1.99	0.44
1:L:606:GLY:CA	1:L:638:ILE:HD12	2.39	0.44
1:L:703:LYS:O	1:L:706:THR:HG22	2.18	0.44
1:M:195:ASP:HB2	1:M:216:LEU:HD11	1.99	0.44
1:O:195:ASP:O	1:O:202:PHE:N	2.43	0.44
1:O:195:ASP:HB2	1:O:216:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:558:THR:HG23	1:O:587:MET:CG	2.48	0.44
1:A:245:LYS:H	1:O:483:GLN:HE22	1.64	0.44
1:A:606:GLY:CA	1:A:638:ILE:HD12	2.39	0.44
1:C:491:ILE:HG12	1:C:589:ILE:HB	1.99	0.44
1:C:558:THR:HG23	1:C:587:MET:CG	2.48	0.44
1:C:703:LYS:O	1:C:706:THR:HG22	2.18	0.44
1:D:600:ARG:HG2	1:D:600:ARG:NH1	2.33	0.44
1:E:207:ILE:HB	1:E:211:HIS:CD2	2.53	0.44
1:G:701:VAL:HG12	1:G:706:THR:HB	2.00	0.44
1:H:380:THR:HG23	1:H:395:LYS:HG3	2.00	0.44
1:H:532:GLY:O	1:H:533:PHE:C	2.61	0.44
1:H:558:THR:HG23	1:H:587:MET:CG	2.48	0.44
1:I:600:ARG:HG2	1:I:600:ARG:NH1	2.33	0.44
1:K:311:ALA:HB2	1:L:636:ARG:NH1	2.32	0.44
1:K:644:VAL:HG21	1:K:678:PHE:CD1	2.50	0.44
1:K:703:LYS:O	1:K:706:THR:HG22	2.18	0.44
1:M:584:ASN:H	1:M:587:MET:HE1	1.82	0.44
1:M:600:ARG:HG2	1:M:600:ARG:NH1	2.33	0.44
1:M:703:LYS:O	1:M:706:THR:HG22	2.18	0.44
1:A:239:VAL:O	1:O:513:PRO:HG2	2.17	0.44
1:A:374:ILE:HG23	1:A:457:GLY:H	1.83	0.44
1:A:577:VAL:O	1:A:581:ILE:HG12	2.18	0.44
1:C:458:ASN:HA	1:C:476:ASN:HA	1.99	0.44
1:D:207:ILE:HB	1:D:211:HIS:CD2	2.53	0.44
1:D:458:ASN:ND2	1:D:476:ASN:HB2	2.27	0.44
1:D:491:ILE:HG12	1:D:589:ILE:HB	1.99	0.44
1:D:577:VAL:O	1:D:581:ILE:HG12	2.18	0.44
1:D:703:LYS:O	1:D:706:THR:HG22	2.18	0.44
1:E:240:THR:HG23	1:E:242:ARG:HG3	1.99	0.44
1:E:577:VAL:O	1:E:581:ILE:HG12	2.18	0.44
1:F:207:ILE:HB	1:F:211:HIS:CD2	2.53	0.44
1:F:239:VAL:HG23	1:F:240:THR:N	2.32	0.44
1:H:470:ARG:HG2	1:H:471:VAL:N	2.33	0.44
1:H:472:ASP:C	1:H:474:GLY:N	2.74	0.44
1:I:472:ASP:C	1:I:474:GLY:N	2.74	0.44
1:I:643:ILE:O	1:I:698:VAL:HA	2.18	0.44
1:K:470:ARG:HG2	1:K:471:VAL:H	1.83	0.44
1:M:470:ARG:HG2	1:M:471:VAL:H	1.83	0.44
1:M:521:MET:HA	1:M:521:MET:CE	2.31	0.44
1:M:701:VAL:HG12	1:M:706:THR:HB	2.00	0.44
1:O:324:PHE:HE1	1:O:588:ASN:CB	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:374:ILE:HG23	1:O:457:GLY:H	1.83	0.44
1:A:558:THR:HG23	1:A:587:MET:CG	2.48	0.43
1:C:374:ILE:HG23	1:C:457:GLY:H	1.83	0.43
1:C:577:VAL:O	1:C:581:ILE:HG12	2.18	0.43
1:D:189:VAL:HG13	1:E:199:LYS:HB2	2.00	0.43
1:D:380:THR:HG23	1:D:395:LYS:HG3	2.00	0.43
1:D:643:ILE:O	1:D:698:VAL:HA	2.18	0.43
1:D:701:VAL:HG12	1:D:706:THR:HB	2.00	0.43
1:E:643:ILE:O	1:E:698:VAL:HA	2.18	0.43
1:F:532:GLY:O	1:F:533:PHE:C	2.61	0.43
1:G:253:HIS:CE1	1:G:255:LEU:HG	2.46	0.43
1:G:470:ARG:HG2	1:G:471:VAL:N	2.33	0.43
1:I:374:ILE:HG23	1:I:457:GLY:H	1.83	0.43
1:I:558:THR:HG23	1:I:587:MET:CG	2.48	0.43
1:J:374:ILE:HG23	1:J:457:GLY:H	1.83	0.43
1:J:470:ARG:HG2	1:J:471:VAL:N	2.33	0.43
1:O:223:PRO:HD2	1:O:517:THR:CG2	2.40	0.43
1:A:231:ASP:HA	1:A:484:ILE:HD11	1.99	0.43
1:A:380:THR:HG23	1:A:395:LYS:HG3	2.00	0.43
1:A:436:TYR:O	1:A:437:ASN:C	2.61	0.43
1:B:319:SER:HA	1:C:414:LYS:HG3	1.99	0.43
1:B:600:ARG:HG2	1:B:600:ARG:NH1	2.33	0.43
1:C:253:HIS:HA	1:C:254:PRO:HD3	1.82	0.43
1:D:644:VAL:HG21	1:D:678:PHE:CD1	2.50	0.43
1:E:600:ARG:HG2	1:E:600:ARG:NH1	2.33	0.43
1:G:272:SER:CA	1:G:350:MET:HE3	2.47	0.43
1:G:558:THR:HG23	1:G:587:MET:CG	2.48	0.43
1:H:231:ASP:HA	1:H:484:ILE:HD11	1.99	0.43
1:H:235:ASP:O	1:H:239:VAL:HG22	2.17	0.43
1:H:413:SER:C	1:H:415:ASN:N	2.77	0.43
1:H:589:ILE:HG22	1:H:590:LEU:N	2.33	0.43
1:I:253:HIS:CE1	1:I:255:LEU:HG	2.46	0.43
1:I:470:ARG:HG2	1:I:471:VAL:H	1.83	0.43
1:I:470:ARG:HG2	1:I:471:VAL:N	2.33	0.43
1:I:701:VAL:HG12	1:I:706:THR:HB	2.00	0.43
1:J:226:TRP:HB2	1:K:466:ASN:O	2.18	0.43
1:J:253:HIS:CE1	1:J:255:LEU:H	2.33	0.43
1:J:380:THR:HG23	1:J:395:LYS:HG3	2.00	0.43
1:J:436:TYR:O	1:J:437:ASN:C	2.61	0.43
1:J:558:THR:HG23	1:J:587:MET:CG	2.48	0.43
1:J:606:GLY:CA	1:J:638:ILE:HD12	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:589:ILE:HG22	1:K:590:LEU:N	2.33	0.43
1:K:600:ARG:HG2	1:K:600:ARG:NH1	2.33	0.43
1:K:643:ILE:O	1:K:698:VAL:HA	2.18	0.43
1:L:532:GLY:O	1:L:533:PHE:C	2.61	0.43
1:L:577:VAL:O	1:L:581:ILE:HG12	2.18	0.43
1:M:261:ILE:HG22	1:M:369:THR:HG23	1.98	0.43
1:M:644:VAL:HG21	1:M:678:PHE:CD1	2.50	0.43
1:O:470:ARG:HG2	1:O:471:VAL:H	1.83	0.43
1:O:577:VAL:O	1:O:581:ILE:HG12	2.18	0.43
1:O:703:LYS:O	1:O:706:THR:HG22	2.18	0.43
1:A:532:GLY:O	1:A:533:PHE:C	2.61	0.43
1:B:253:HIS:HA	1:B:254:PRO:HD3	1.82	0.43
1:B:436:TYR:O	1:B:437:ASN:C	2.62	0.43
1:C:189:VAL:HG13	1:D:199:LYS:CG	2.49	0.43
1:D:240:THR:HG23	1:D:242:ARG:HG3	1.99	0.43
1:D:436:TYR:O	1:D:437:ASN:C	2.61	0.43
1:E:491:ILE:HG12	1:E:589:ILE:HB	1.99	0.43
1:E:644:VAL:HG21	1:E:678:PHE:CD1	2.50	0.43
1:F:436:TYR:O	1:F:437:ASN:C	2.61	0.43
1:F:470:ARG:HG2	1:F:471:VAL:H	1.83	0.43
1:F:584:ASN:H	1:F:587:MET:HE1	1.82	0.43
1:F:703:LYS:O	1:F:706:THR:HG22	2.18	0.43
1:G:436:TYR:O	1:G:437:ASN:C	2.62	0.43
1:H:470:ARG:HG2	1:H:471:VAL:H	1.83	0.43
1:H:480:VAL:HG22	1:I:468:ARG:HD3	1.99	0.43
1:I:235:ASP:O	1:I:239:VAL:HG22	2.17	0.43
1:I:533:PHE:HB3	1:I:540:LEU:CD1	2.46	0.43
1:J:533:PHE:HB3	1:J:540:LEU:CD1	2.46	0.43
1:J:577:VAL:O	1:J:581:ILE:HG12	2.18	0.43
1:K:309:VAL:O	1:L:668:LEU:HB3	2.19	0.43
1:L:231:ASP:HA	1:L:484:ILE:HD11	1.99	0.43
1:L:413:SER:C	1:L:415:ASN:N	2.77	0.43
1:L:558:THR:HG23	1:L:587:MET:CG	2.48	0.43
1:M:207:ILE:HB	1:M:211:HIS:CD2	2.53	0.43
1:M:612:VAL:O	1:M:616:HIS:ND1	2.46	0.43
1:M:643:ILE:O	1:M:698:VAL:HA	2.18	0.43
1:A:470:ARG:HG2	1:A:471:VAL:N	2.33	0.43
1:A:701:VAL:HG12	1:A:706:THR:HB	2.00	0.43
1:B:207:ILE:HB	1:B:211:HIS:CD2	2.53	0.43
1:B:374:ILE:HG23	1:B:457:GLY:H	1.83	0.43
1:C:324:PHE:HE1	1:C:588:ASN:CB	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:533:PHE:HB3	1:C:540:LEU:CD1	2.46	0.43
1:D:558:THR:HG23	1:D:587:MET:CG	2.48	0.43
1:E:436:TYR:O	1:E:437:ASN:C	2.61	0.43
1:G:703:LYS:O	1:G:706:THR:HG22	2.18	0.43
1:H:374:ILE:HG23	1:H:457:GLY:H	1.83	0.43
1:J:324:PHE:HE1	1:J:588:ASN:CB	2.24	0.43
1:K:532:GLY:O	1:K:533:PHE:C	2.61	0.43
1:M:470:ARG:HG2	1:M:471:VAL:N	2.33	0.43
1:M:577:VAL:O	1:M:581:ILE:HG12	2.18	0.43
1:M:647:GLU:OE1	1:M:695:LYS:HD3	2.19	0.43
1:O:643:ILE:O	1:O:698:VAL:HA	2.18	0.43
1:O:701:VAL:HG12	1:O:706:THR:HB	2.00	0.43
1:B:368:ASN:ND2	1:B:407:PRO:CA	2.82	0.43
1:B:413:SER:C	1:B:415:ASN:N	2.77	0.43
1:B:577:VAL:O	1:B:581:ILE:HG12	2.18	0.43
1:C:436:TYR:O	1:C:437:ASN:C	2.61	0.43
1:C:600:ARG:HG2	1:C:600:ARG:NH1	2.33	0.43
1:C:643:ILE:O	1:C:698:VAL:HA	2.18	0.43
1:E:647:GLU:OE1	1:E:695:LYS:HD3	2.19	0.43
1:G:271:LEU:CD2	1:G:360:LEU:HD13	2.49	0.43
1:G:374:ILE:HG23	1:G:457:GLY:H	1.83	0.43
1:G:600:ARG:HG2	1:G:600:ARG:NH1	2.33	0.43
1:H:224:GLU:HB2	1:H:517:THR:HG21	2.01	0.43
1:I:207:ILE:HB	1:I:211:HIS:CD2	2.53	0.43
1:K:612:VAL:O	1:K:616:HIS:ND1	2.46	0.43
1:M:413:SER:C	1:M:415:ASN:N	2.77	0.43
1:O:224:GLU:HB2	1:O:517:THR:HG21	2.01	0.43
1:O:458:ASN:HA	1:O:476:ASN:HA	1.99	0.43
1:C:224:GLU:OE2	1:D:201:THR:N	2.48	0.43
1:C:470:ARG:HG2	1:C:471:VAL:N	2.33	0.43
1:D:239:VAL:HG23	1:D:240:THR:N	2.32	0.43
1:D:470:ARG:HG2	1:D:471:VAL:N	2.33	0.43
1:D:482:PRO:HB3	1:E:246:ASN:HD21	1.82	0.43
1:E:239:VAL:HG23	1:E:240:THR:N	2.32	0.43
1:F:374:ILE:HG23	1:F:457:GLY:H	1.83	0.43
1:F:577:VAL:O	1:F:581:ILE:HG12	2.18	0.43
1:F:647:GLU:OE1	1:F:695:LYS:HD3	2.19	0.43
1:F:660:TYR:CD1	1:F:660:TYR:C	2.97	0.43
1:F:701:VAL:HG12	1:F:706:THR:HB	2.00	0.43
1:G:195:ASP:HB2	1:G:216:LEU:HD11	1.99	0.43
1:I:226:TRP:CG	1:J:466:ASN:O	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:701:VAL:HG12	1:J:706:THR:HB	2.00	0.43
1:K:207:ILE:HB	1:K:211:HIS:CD2	2.53	0.43
1:K:224:GLU:HB2	1:K:517:THR:HG21	2.01	0.43
1:K:269:ILE:HG22	1:K:362:ALA:CB	2.44	0.43
1:L:380:THR:HG23	1:L:395:LYS:HG3	2.00	0.43
1:L:643:ILE:O	1:L:698:VAL:HA	2.18	0.43
1:M:454:GLN:HA	1:M:456:TYR:HE2	1.82	0.43
1:M:558:THR:HG23	1:M:587:MET:CG	2.48	0.43
1:O:231:ASP:HA	1:O:484:ILE:HD11	1.99	0.43
1:A:224:GLU:HB2	1:A:517:THR:HG21	2.01	0.43
1:A:407:PRO:O	1:A:408:ASN:C	2.62	0.43
1:C:269:ILE:HG22	1:C:362:ALA:CB	2.44	0.43
1:C:647:GLU:OE1	1:C:695:LYS:HD3	2.19	0.43
1:C:701:VAL:HG12	1:C:706:THR:HB	2.00	0.43
1:E:224:GLU:OE2	1:F:201:THR:N	2.48	0.43
1:E:558:THR:HG23	1:E:587:MET:CG	2.48	0.43
1:F:231:ASP:HA	1:F:484:ILE:HD11	1.99	0.43
1:F:381:THR:HA	1:F:452:THR:HA	2.01	0.43
1:F:480:VAL:HG22	1:O:468:ARG:HD3	2.00	0.43
1:H:253:HIS:HA	1:H:254:PRO:HD3	1.82	0.43
1:H:600:ARG:HG2	1:H:600:ARG:NH1	2.33	0.43
1:H:703:LYS:O	1:H:706:THR:HG22	2.18	0.43
1:I:224:GLU:HB2	1:I:517:THR:HG21	2.01	0.43
1:I:660:TYR:CD1	1:I:660:TYR:C	2.97	0.43
1:J:243:ILE:CG1	1:J:244:ASP:N	2.75	0.43
1:J:703:LYS:O	1:J:706:THR:HG22	2.18	0.43
1:K:647:GLU:OE1	1:K:695:LYS:HD3	2.19	0.43
1:L:589:ILE:HG22	1:L:590:LEU:N	2.33	0.43
1:L:647:GLU:OE1	1:L:695:LYS:HD3	2.19	0.43
1:M:660:TYR:CD1	1:M:660:TYR:C	2.97	0.43
1:O:470:ARG:HG2	1:O:471:VAL:N	2.33	0.43
1:A:223:PRO:HD2	1:A:517:THR:CG2	2.40	0.43
1:A:491:ILE:HG12	1:A:589:ILE:HB	1.99	0.43
1:B:178:ARG:NH1	1:C:200:ARG:HB3	2.34	0.43
1:B:380:THR:HG23	1:B:395:LYS:HG3	2.00	0.43
1:B:532:GLY:O	1:B:533:PHE:C	2.61	0.43
1:C:660:TYR:CD1	1:C:660:TYR:C	2.97	0.43
1:E:407:PRO:O	1:E:408:ASN:C	2.62	0.43
1:E:607:ALA:N	1:E:638:ILE:HD12	2.34	0.43
1:F:253:HIS:CE1	1:F:255:LEU:HG	2.46	0.43
1:F:643:ILE:O	1:F:698:VAL:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:231:ASP:HA	1:G:484:ILE:HD11	1.99	0.43
1:H:453:ASP:CG	1:H:455:VAL:HG12	2.44	0.43
1:J:224:GLU:HB2	1:J:517:THR:HG21	2.01	0.43
1:K:436:TYR:O	1:K:437:ASN:C	2.62	0.43
1:L:470:ARG:HG2	1:L:471:VAL:H	1.83	0.43
1:L:612:VAL:O	1:L:616:HIS:ND1	2.46	0.43
1:O:378:LEU:HG	1:O:379:PRO:HD2	2.01	0.43
1:B:453:ASP:CG	1:B:455:VAL:HG12	2.44	0.43
1:B:470:ARG:HG2	1:B:471:VAL:N	2.33	0.43
1:C:470:ARG:HG2	1:C:471:VAL:H	1.83	0.43
1:D:647:GLU:OE1	1:D:695:LYS:HD3	2.19	0.43
1:E:381:THR:HA	1:E:452:THR:HA	2.01	0.43
1:E:413:SER:C	1:E:415:ASN:N	2.77	0.43
1:E:703:LYS:O	1:E:706:THR:HG22	2.18	0.43
1:F:407:PRO:O	1:F:408:ASN:C	2.62	0.43
1:G:175:VAL:HA	1:G:176:PRO:HD3	1.80	0.43
1:G:306:ASN:HA	1:H:669:ARG:HD3	2.01	0.43
1:H:271:LEU:CD2	1:H:360:LEU:HD13	2.49	0.43
1:H:584:ASN:H	1:H:587:MET:HE1	1.82	0.43
1:H:648:ASP:OD1	1:H:649:THR:N	2.52	0.43
1:I:703:LYS:O	1:I:706:THR:HG22	2.18	0.43
1:J:648:ASP:OD1	1:J:649:THR:N	2.52	0.43
1:K:319:SER:O	1:K:321:SER:N	2.48	0.43
1:K:381:THR:HA	1:K:452:THR:HA	2.01	0.43
1:K:407:PRO:O	1:K:408:ASN:C	2.62	0.43
1:K:453:ASP:CG	1:K:455:VAL:HG12	2.44	0.43
1:K:577:VAL:O	1:K:581:ILE:HG12	2.18	0.43
1:L:578:LEU:HD12	1:L:578:LEU:HA	1.90	0.43
1:M:225:LYS:NZ	1:M:515:GLU:OE2	2.43	0.43
1:O:207:ILE:HB	1:O:211:HIS:CD2	2.53	0.43
1:O:660:TYR:CD1	1:O:660:TYR:C	2.97	0.43
1:A:472:ASP:C	1:A:474:GLY:N	2.74	0.43
1:A:600:ARG:HG2	1:A:600:ARG:NH1	2.33	0.43
1:B:407:PRO:O	1:B:408:ASN:C	2.62	0.43
1:C:453:ASP:CG	1:C:455:VAL:HG12	2.44	0.43
1:D:381:THR:HA	1:D:452:THR:HA	2.01	0.43
1:D:472:ASP:C	1:D:474:GLY:N	2.74	0.43
1:E:380:THR:HG23	1:E:395:LYS:HG3	2.00	0.43
1:E:453:ASP:CG	1:E:455:VAL:HG12	2.44	0.43
1:E:648:ASP:OD1	1:E:649:THR:N	2.52	0.43
1:F:413:SER:C	1:F:415:ASN:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:470:ARG:HG2	1:F:471:VAL:N	2.33	0.43
1:G:643:ILE:O	1:G:698:VAL:HA	2.18	0.43
1:H:436:TYR:O	1:H:437:ASN:C	2.62	0.43
1:H:701:VAL:HG12	1:H:706:THR:HB	2.00	0.43
1:I:380:THR:HG23	1:I:395:LYS:HG3	2.00	0.43
1:J:589:ILE:HG22	1:J:590:LEU:N	2.33	0.43
1:L:374:ILE:HG23	1:L:457:GLY:H	1.83	0.43
1:L:533:PHE:HB3	1:L:540:LEU:CD1	2.46	0.43
1:M:378:LEU:HG	1:M:379:PRO:HD2	2.01	0.43
1:M:648:ASP:OD1	1:M:649:THR:N	2.52	0.43
1:O:243:ILE:CG1	1:O:244:ASP:N	2.75	0.43
1:O:407:PRO:O	1:O:408:ASN:C	2.62	0.43
1:A:231:ASP:N	1:A:484:ILE:HD11	2.34	0.42
1:A:368:ASN:ND2	1:A:407:PRO:CA	2.81	0.42
1:A:378:LEU:HG	1:A:379:PRO:HD2	2.01	0.42
1:A:703:LYS:O	1:A:706:THR:HG22	2.18	0.42
1:B:318:GLY:CA	1:C:410:TYR:CE1	2.97	0.42
1:B:648:ASP:OD1	1:B:649:THR:N	2.52	0.42
1:B:703:LYS:O	1:B:706:THR:HG22	2.18	0.42
1:C:271:LEU:CD2	1:C:360:LEU:HD13	2.49	0.42
1:D:271:LEU:CD2	1:D:360:LEU:HD13	2.49	0.42
1:E:316:ILE:C	1:E:318:GLY:N	2.77	0.42
1:F:231:ASP:N	1:F:484:ILE:HD11	2.34	0.42
1:F:271:LEU:CD2	1:F:360:LEU:HD13	2.49	0.42
1:F:648:ASP:OD1	1:F:649:THR:N	2.52	0.42
1:G:470:ARG:HG2	1:G:471:VAL:H	1.83	0.42
1:H:411:TYR:CD2	1:H:412:PRO:CD	3.02	0.42
1:H:533:PHE:HB3	1:H:540:LEU:CD1	2.46	0.42
1:H:643:ILE:O	1:H:698:VAL:HA	2.18	0.42
1:I:231:ASP:HA	1:I:484:ILE:HD11	1.99	0.42
1:J:368:ASN:ND2	1:J:407:PRO:CA	2.81	0.42
1:J:453:ASP:CG	1:J:455:VAL:HG12	2.44	0.42
1:K:454:GLN:HA	1:K:456:TYR:HE2	1.82	0.42
1:L:381:THR:HA	1:L:452:THR:HA	2.01	0.42
1:M:436:TYR:O	1:M:437:ASN:C	2.62	0.42
1:O:411:TYR:CD2	1:O:412:PRO:CD	3.02	0.42
1:A:381:THR:HA	1:A:452:THR:HA	2.01	0.42
1:A:514:LEU:HD22	1:B:242:ARG:HG2	2.00	0.42
1:A:660:TYR:CD1	1:A:660:TYR:C	2.97	0.42
1:B:381:THR:HA	1:B:452:THR:HA	2.01	0.42
1:B:701:VAL:HG12	1:B:706:THR:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:368:ASN:ND2	1:D:407:PRO:CA	2.82	0.42
1:D:374:ILE:HG23	1:D:457:GLY:H	1.83	0.42
1:D:453:ASP:CG	1:D:455:VAL:HG12	2.44	0.42
1:D:607:ALA:N	1:D:638:ILE:HD12	2.34	0.42
1:D:648:ASP:OD1	1:D:649:THR:N	2.52	0.42
1:E:231:ASP:CA	1:E:484:ILE:HD11	2.49	0.42
1:E:374:ILE:HG23	1:E:457:GLY:H	1.83	0.42
1:F:231:ASP:CA	1:F:484:ILE:HD11	2.49	0.42
1:F:453:ASP:CG	1:F:455:VAL:HG12	2.44	0.42
1:G:589:ILE:HG22	1:G:590:LEU:N	2.33	0.42
1:G:648:ASP:OD1	1:G:649:THR:N	2.52	0.42
1:H:612:VAL:O	1:H:616:HIS:ND1	2.46	0.42
1:H:647:GLU:OE1	1:H:695:LYS:HD3	2.19	0.42
1:J:271:LEU:CD2	1:J:360:LEU:HD13	2.49	0.42
1:J:470:ARG:HG2	1:J:471:VAL:H	1.83	0.42
1:K:411:TYR:CD2	1:K:412:PRO:CD	3.02	0.42
1:K:648:ASP:OD1	1:K:649:THR:N	2.52	0.42
1:L:458:ASN:ND2	1:L:476:ASN:HB2	2.27	0.42
1:L:648:ASP:OD1	1:L:649:THR:N	2.52	0.42
1:L:701:VAL:HG12	1:L:706:THR:HB	2.00	0.42
1:M:458:ASN:ND2	1:M:476:ASN:HB2	2.27	0.42
1:M:607:ALA:N	1:M:638:ILE:HD12	2.34	0.42
1:B:316:ILE:C	1:B:318:GLY:N	2.77	0.42
1:C:589:ILE:HG22	1:C:590:LEU:N	2.33	0.42
1:C:648:ASP:OD1	1:C:649:THR:N	2.52	0.42
1:D:231:ASP:CA	1:D:484:ILE:HD11	2.49	0.42
1:D:407:PRO:O	1:D:408:ASN:C	2.62	0.42
1:E:470:ARG:HG2	1:E:471:VAL:N	2.33	0.42
1:G:201:THR:N	1:M:224:GLU:OE2	2.51	0.42
1:G:606:GLY:HA2	1:G:638:ILE:CD1	2.41	0.42
1:G:647:GLU:OE1	1:G:695:LYS:HD3	2.19	0.42
1:H:606:GLY:CA	1:H:638:ILE:HD12	2.39	0.42
1:J:381:THR:HA	1:J:452:THR:HA	2.01	0.42
1:K:413:SER:C	1:K:415:ASN:N	2.77	0.42
1:L:470:ARG:HG2	1:L:471:VAL:N	2.33	0.42
1:L:660:TYR:CD1	1:L:660:TYR:C	2.97	0.42
1:O:253:HIS:CE1	1:O:255:LEU:HG	2.46	0.42
1:O:453:ASP:CG	1:O:455:VAL:HG12	2.44	0.42
1:A:410:TYR:CE1	1:O:318:GLY:CA	2.93	0.42
1:A:643:ILE:O	1:A:698:VAL:HA	2.18	0.42
1:B:223:PRO:HD2	1:B:517:THR:CG2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:589:ILE:HG22	1:B:590:LEU:N	2.33	0.42
1:C:231:ASP:N	1:C:484:ILE:HD11	2.34	0.42
1:C:584:ASN:H	1:C:587:MET:HE1	1.82	0.42
1:D:394:ILE:HD13	1:D:421:LEU:HD22	2.02	0.42
1:D:413:SER:C	1:D:415:ASN:N	2.77	0.42
1:D:589:ILE:HG22	1:D:590:LEU:N	2.33	0.42
1:E:411:TYR:CD2	1:E:412:PRO:CD	3.03	0.42
1:F:316:ILE:C	1:F:318:GLY:N	2.77	0.42
1:F:378:LEU:HG	1:F:379:PRO:HD2	2.01	0.42
1:F:589:ILE:HG22	1:F:590:LEU:N	2.33	0.42
1:G:231:ASP:N	1:G:484:ILE:HD11	2.34	0.42
1:G:533:PHE:HB3	1:G:540:LEU:CD1	2.46	0.42
1:G:577:VAL:O	1:G:581:ILE:HG12	2.18	0.42
1:H:231:ASP:N	1:H:484:ILE:HD11	2.34	0.42
1:H:378:LEU:HG	1:H:379:PRO:HD2	2.01	0.42
1:H:577:VAL:O	1:H:581:ILE:HG12	2.18	0.42
1:I:226:TRP:CB	1:J:466:ASN:O	2.65	0.42
1:I:378:LEU:HG	1:I:379:PRO:HD2	2.01	0.42
1:J:316:ILE:C	1:J:318:GLY:N	2.77	0.42
1:K:394:ILE:HD13	1:K:421:LEU:HD22	2.02	0.42
1:K:470:ARG:HG2	1:K:471:VAL:N	2.33	0.42
1:M:231:ASP:N	1:M:484:ILE:HD11	2.34	0.42
1:O:381:THR:HA	1:O:452:THR:HA	2.01	0.42
1:A:383:LEU:C	1:A:383:LEU:CD2	2.93	0.42
1:A:470:ARG:HG2	1:A:471:VAL:H	1.83	0.42
1:A:648:ASP:OD1	1:A:649:THR:N	2.52	0.42
1:B:224:GLU:HB2	1:B:517:THR:HG21	2.01	0.42
1:B:607:ALA:N	1:B:638:ILE:HD12	2.34	0.42
1:B:660:TYR:CD1	1:B:660:TYR:C	2.97	0.42
1:C:383:LEU:C	1:C:383:LEU:CD2	2.93	0.42
1:E:383:LEU:C	1:E:383:LEU:CD2	2.93	0.42
1:E:612:VAL:O	1:E:616:HIS:ND1	2.46	0.42
1:F:380:THR:HG23	1:F:395:LYS:HG3	1.99	0.42
1:G:400:GLN:HG3	1:G:401:LEU:N	2.35	0.42
1:G:407:PRO:O	1:G:408:ASN:C	2.62	0.42
1:G:411:TYR:CD2	1:G:412:PRO:CD	3.03	0.42
1:I:383:LEU:C	1:I:383:LEU:CD2	2.93	0.42
1:I:400:GLN:HG3	1:I:401:LEU:N	2.35	0.42
1:I:577:VAL:O	1:I:581:ILE:HG12	2.18	0.42
1:I:607:ALA:N	1:I:638:ILE:HD12	2.34	0.42
1:I:647:GLU:OE1	1:I:695:LYS:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:316:ILE:O	1:J:318:GLY:N	2.53	0.42
1:K:231:ASP:N	1:K:484:ILE:HD11	2.34	0.42
1:K:253:HIS:CE1	1:K:255:LEU:H	2.33	0.42
1:L:383:LEU:C	1:L:383:LEU:CD2	2.93	0.42
1:L:453:ASP:CG	1:L:455:VAL:HG12	2.44	0.42
1:M:589:ILE:HG22	1:M:590:LEU:N	2.33	0.42
1:O:413:SER:C	1:O:415:ASN:N	2.77	0.42
1:O:648:ASP:OD1	1:O:649:THR:N	2.52	0.42
1:A:195:ASP:O	1:A:202:PHE:N	2.43	0.42
1:A:411:TYR:CD2	1:A:412:PRO:CD	3.02	0.42
1:A:589:ILE:HG22	1:A:590:LEU:N	2.33	0.42
1:B:400:GLN:HG3	1:B:401:LEU:N	2.35	0.42
1:C:175:VAL:HA	1:C:176:PRO:HD3	1.80	0.42
1:F:607:ALA:N	1:F:638:ILE:HD12	2.34	0.42
1:G:224:GLU:HB2	1:G:517:THR:HG21	2.01	0.42
1:H:383:LEU:C	1:H:383:LEU:CD2	2.93	0.42
1:I:231:ASP:CA	1:I:484:ILE:HD11	2.50	0.42
1:K:271:LEU:CD2	1:K:360:LEU:HD13	2.49	0.42
1:K:660:TYR:CD1	1:K:660:TYR:C	2.97	0.42
1:O:647:GLU:OE1	1:O:695:LYS:HD3	2.19	0.42
1:A:231:ASP:CA	1:A:484:ILE:HD11	2.50	0.42
1:A:377:VAL:HG13	1:A:398:GLU:HG3	2.02	0.42
1:B:401:LEU:HD12	1:B:401:LEU:O	2.20	0.42
1:C:411:TYR:CD2	1:C:412:PRO:CD	3.02	0.42
1:D:380:THR:HG23	1:D:395:LYS:HB2	2.02	0.42
1:D:660:TYR:CD1	1:D:660:TYR:C	2.97	0.42
1:E:318:GLY:CA	1:F:410:TYR:CE1	3.02	0.42
1:F:394:ILE:HD13	1:F:421:LEU:HD22	2.02	0.42
1:F:401:LEU:HD12	1:F:401:LEU:O	2.20	0.42
1:G:380:THR:HG23	1:G:395:LYS:HB2	2.02	0.42
1:H:394:ILE:HD13	1:H:421:LEU:HD22	2.02	0.42
1:H:407:PRO:O	1:H:408:ASN:C	2.62	0.42
1:H:660:TYR:CD1	1:H:660:TYR:C	2.97	0.42
1:I:271:LEU:CD2	1:I:360:LEU:HD13	2.49	0.42
1:I:453:ASP:CG	1:I:455:VAL:HG12	2.44	0.42
1:I:648:ASP:OD1	1:I:649:THR:N	2.52	0.42
1:J:400:GLN:HG3	1:J:401:LEU:N	2.35	0.42
1:J:515:GLU:OE1	1:K:245:LYS:HE2	2.19	0.42
1:K:401:LEU:HD12	1:K:401:LEU:O	2.20	0.42
1:L:271:LEU:CD2	1:L:360:LEU:HD13	2.49	0.42
1:L:394:ILE:HD13	1:L:421:LEU:HD22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:368:ASN:ND2	1:O:407:PRO:CA	2.81	0.42
1:O:383:LEU:C	1:O:383:LEU:CD2	2.93	0.42
1:A:413:SER:C	1:A:415:ASN:N	2.77	0.42
1:B:383:LEU:C	1:B:383:LEU:CD2	2.93	0.42
1:B:411:TYR:CD2	1:B:412:PRO:CD	3.02	0.42
1:C:187:LEU:HD23	1:C:205:PRO:HB3	2.02	0.42
1:C:377:VAL:HG13	1:C:398:GLU:HG3	2.02	0.42
1:C:380:THR:HG23	1:C:395:LYS:HB2	2.02	0.42
1:C:607:ALA:N	1:C:638:ILE:HD12	2.34	0.42
1:D:316:ILE:O	1:D:318:GLY:N	2.53	0.42
1:E:224:GLU:HB2	1:E:517:THR:HG21	2.01	0.42
1:E:231:ASP:N	1:E:484:ILE:HD11	2.34	0.42
1:E:316:ILE:O	1:E:318:GLY:N	2.53	0.42
1:F:220:LYS:O	1:F:519:PRO:HG2	2.20	0.42
1:F:411:TYR:CD2	1:F:412:PRO:CD	3.03	0.42
1:G:381:THR:HA	1:G:452:THR:HA	2.01	0.42
1:H:400:GLN:HG3	1:H:401:LEU:N	2.35	0.42
1:H:454:GLN:HA	1:H:456:TYR:HE2	1.82	0.42
1:I:380:THR:HG23	1:I:395:LYS:HB2	2.02	0.42
1:I:413:SER:C	1:I:415:ASN:N	2.76	0.42
1:J:411:TYR:CD2	1:J:412:PRO:CD	3.03	0.42
1:J:600:ARG:HG2	1:J:600:ARG:NH1	2.33	0.42
1:J:647:GLU:OE1	1:J:695:LYS:HD3	2.19	0.42
1:K:374:ILE:HG23	1:K:457:GLY:H	1.83	0.42
1:K:378:LEU:HG	1:K:379:PRO:HD2	2.01	0.42
1:L:316:ILE:C	1:L:318:GLY:N	2.77	0.42
1:B:187:LEU:HD23	1:B:205:PRO:HB3	2.02	0.42
1:B:200:ARG:H	1:B:200:ARG:CD	2.33	0.42
1:B:220:LYS:O	1:B:519:PRO:HG2	2.20	0.42
1:B:231:ASP:CA	1:B:484:ILE:HD11	2.49	0.42
1:B:380:THR:HG23	1:B:395:LYS:HB2	2.02	0.42
1:B:481:LEU:O	1:B:482:PRO:C	2.63	0.42
1:C:224:GLU:HB2	1:C:517:THR:HG21	2.01	0.42
1:C:368:ASN:ND2	1:C:407:PRO:CA	2.82	0.42
1:C:453:ASP:OD1	1:C:455:VAL:HG12	2.20	0.42
1:C:454:GLN:HA	1:C:456:TYR:HE2	1.82	0.42
1:D:223:PRO:HD2	1:D:517:THR:CG2	2.40	0.42
1:D:231:ASP:N	1:D:484:ILE:HD11	2.34	0.42
1:E:220:LYS:O	1:E:519:PRO:HG2	2.20	0.42
1:E:380:THR:HG23	1:E:395:LYS:HB2	2.02	0.42
1:E:394:ILE:HD13	1:E:421:LEU:HD22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:377:VAL:HG13	1:F:398:GLU:HG3	2.02	0.42
1:G:220:LYS:O	1:G:519:PRO:HG2	2.20	0.42
1:G:383:LEU:C	1:G:383:LEU:CD2	2.93	0.42
1:G:410:TYR:HE1	1:M:318:GLY:CA	2.33	0.42
1:G:453:ASP:CG	1:G:455:VAL:HG12	2.44	0.42
1:G:660:TYR:CD1	1:G:660:TYR:C	2.97	0.42
1:H:401:LEU:HD12	1:H:401:LEU:O	2.20	0.42
1:H:607:ALA:N	1:H:638:ILE:HD12	2.34	0.42
1:I:394:ILE:HD13	1:I:421:LEU:HD22	2.02	0.42
1:J:231:ASP:N	1:J:484:ILE:HD11	2.34	0.42
1:J:512:ASP:OD1	1:K:245:LYS:HE3	2.19	0.42
1:J:607:ALA:N	1:J:638:ILE:HD12	2.34	0.42
1:K:220:LYS:O	1:K:519:PRO:HG2	2.20	0.42
1:K:226:TRP:HB2	1:L:466:ASN:O	2.20	0.42
1:K:574:ILE:C	1:K:576:THR:N	2.78	0.42
1:L:378:LEU:HG	1:L:379:PRO:HD2	2.01	0.42
1:L:411:TYR:CD2	1:L:412:PRO:CD	3.03	0.42
1:M:224:GLU:HB2	1:M:517:THR:HG21	2.01	0.42
1:M:374:ILE:HG23	1:M:457:GLY:H	1.83	0.42
1:M:377:VAL:HG13	1:M:398:GLU:HG3	2.02	0.42
1:M:381:THR:HA	1:M:452:THR:HA	2.01	0.42
1:M:453:ASP:CG	1:M:455:VAL:HG12	2.44	0.42
1:M:453:ASP:OD1	1:M:455:VAL:HG12	2.20	0.42
1:M:481:LEU:O	1:M:482:PRO:C	2.63	0.42
1:O:231:ASP:N	1:O:484:ILE:HD11	2.34	0.42
1:O:453:ASP:OD1	1:O:455:VAL:HG12	2.20	0.42
1:O:603:ILE:O	1:O:605:VAL:HG23	2.20	0.42
1:A:380:THR:HG23	1:A:395:LYS:HB2	2.02	0.42
1:A:510:PRO:HG2	1:A:511:SER:H	1.85	0.42
1:A:516:THR:HB	1:B:196:VAL:HG11	2.01	0.42
1:A:607:ALA:N	1:A:638:ILE:HD12	2.34	0.42
1:B:533:PHE:HB3	1:B:540:LEU:CD1	2.46	0.42
1:C:346:TRP:CZ2	1:C:446:LYS:HE3	2.55	0.42
1:C:458:ASN:ND2	1:C:476:ASN:HB2	2.27	0.42
1:C:606:GLY:CA	1:C:638:ILE:HD12	2.39	0.42
1:D:189:VAL:HG13	1:E:199:LYS:CG	2.50	0.42
1:D:305:GLY:CA	1:E:670:GLN:HG3	2.46	0.42
1:D:378:LEU:HG	1:D:379:PRO:HD2	2.01	0.42
1:D:383:LEU:C	1:D:383:LEU:CD2	2.93	0.42
1:D:411:TYR:CD2	1:D:412:PRO:CD	3.02	0.42
1:E:271:LEU:CD2	1:E:360:LEU:HD13	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:660:TYR:CD1	1:E:660:TYR:C	2.97	0.42
1:G:199:LYS:CG	1:M:189:VAL:CG1	2.97	0.42
1:G:231:ASP:CA	1:G:484:ILE:HD11	2.49	0.42
1:G:378:LEU:HG	1:G:379:PRO:HD2	2.01	0.42
1:H:381:THR:HA	1:H:452:THR:HA	2.01	0.42
1:I:231:ASP:N	1:I:484:ILE:HD11	2.34	0.42
1:I:346:TRP:CZ2	1:I:446:LYS:HE3	2.55	0.42
1:I:385:LEU:HD12	1:I:386:GLY:N	2.35	0.42
1:I:411:TYR:CD2	1:I:412:PRO:CD	3.03	0.42
1:I:589:ILE:HG22	1:I:590:LEU:N	2.33	0.42
1:J:394:ILE:HD13	1:J:421:LEU:HD22	2.02	0.42
1:J:413:SER:C	1:J:415:ASN:N	2.77	0.42
1:J:660:TYR:CD1	1:J:660:TYR:C	2.97	0.42
1:K:380:THR:HG23	1:K:395:LYS:HB2	2.02	0.42
1:K:400:GLN:HG3	1:K:401:LEU:N	2.35	0.42
1:K:603:ILE:O	1:K:605:VAL:HG23	2.20	0.42
1:L:231:ASP:CA	1:L:484:ILE:HD11	2.49	0.42
1:L:346:TRP:CZ2	1:L:446:LYS:HE3	2.55	0.42
1:M:383:LEU:C	1:M:383:LEU:CD2	2.93	0.42
1:M:411:TYR:CD2	1:M:412:PRO:CD	3.03	0.42
1:O:231:ASP:CA	1:O:484:ILE:HD11	2.49	0.42
1:O:271:LEU:CD2	1:O:360:LEU:HD13	2.49	0.42
1:O:589:ILE:HG22	1:O:590:LEU:N	2.33	0.42
1:A:385:LEU:HD12	1:A:386:GLY:N	2.35	0.41
1:A:603:ILE:O	1:A:605:VAL:HG23	2.20	0.41
1:A:647:GLU:OE1	1:A:695:LYS:HD3	2.19	0.41
1:B:558:THR:HG23	1:B:587:MET:HG2	2.02	0.41
1:C:226:TRP:CG	1:D:466:ASN:O	2.73	0.41
1:C:407:PRO:O	1:C:408:ASN:C	2.62	0.41
1:D:187:LEU:HD23	1:D:205:PRO:HB3	2.02	0.41
1:D:558:THR:HG23	1:D:587:MET:HG2	2.02	0.41
1:D:642:TYR:CD2	1:D:666:SER:HB3	2.55	0.41
1:E:383:LEU:HD23	1:E:384:VAL:N	2.35	0.41
1:F:224:GLU:HB2	1:F:517:THR:HG21	2.01	0.41
1:F:510:PRO:HG2	1:F:511:SER:H	1.85	0.41
1:G:199:LYS:HG3	1:M:189:VAL:HG13	2.02	0.41
1:G:607:ALA:N	1:G:638:ILE:HD12	2.34	0.41
1:H:231:ASP:CA	1:H:484:ILE:HD11	2.49	0.41
1:I:642:TYR:CD2	1:I:666:SER:HB3	2.56	0.41
1:J:377:VAL:HG13	1:J:398:GLU:HG3	2.02	0.41
1:J:453:ASP:OD1	1:J:455:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:231:ASP:CA	1:K:484:ILE:HD11	2.49	0.41
1:K:385:LEU:HD12	1:K:386:GLY:N	2.35	0.41
1:L:231:ASP:N	1:L:484:ILE:HD11	2.34	0.41
1:L:377:VAL:HG13	1:L:398:GLU:HG3	2.02	0.41
1:M:231:ASP:CA	1:M:484:ILE:HD11	2.49	0.41
1:M:492:ILE:HA	1:M:501:VAL:O	2.20	0.41
1:O:383:LEU:HD23	1:O:384:VAL:N	2.35	0.41
1:O:642:TYR:CD2	1:O:666:SER:HB3	2.55	0.41
1:A:253:HIS:CE1	1:A:255:LEU:HG	2.46	0.41
1:A:453:ASP:CG	1:A:455:VAL:HG12	2.44	0.41
1:A:492:ILE:HA	1:A:501:VAL:O	2.20	0.41
1:B:383:LEU:HD23	1:B:384:VAL:N	2.35	0.41
1:B:394:ILE:HD13	1:B:421:LEU:HD22	2.02	0.41
1:C:378:LEU:HG	1:C:379:PRO:HD2	2.01	0.41
1:D:346:TRP:CZ2	1:D:446:LYS:HE3	2.55	0.41
1:E:400:GLN:HG3	1:E:401:LEU:N	2.35	0.41
1:E:558:THR:HG23	1:E:587:MET:HG2	2.02	0.41
1:F:383:LEU:C	1:F:383:LEU:CD2	2.93	0.41
1:G:346:TRP:CZ2	1:G:446:LYS:HE3	2.55	0.41
1:G:510:PRO:HG2	1:G:511:SER:H	1.85	0.41
1:H:377:VAL:HG13	1:H:398:GLU:HG3	2.02	0.41
1:H:380:THR:HG23	1:H:395:LYS:HB2	2.02	0.41
1:I:187:LEU:HD23	1:I:205:PRO:HB3	2.02	0.41
1:I:368:ASN:ND2	1:I:407:PRO:CA	2.81	0.41
1:I:407:PRO:O	1:I:408:ASN:C	2.62	0.41
1:I:453:ASP:OD1	1:I:455:VAL:HG12	2.20	0.41
1:I:515:GLU:OE1	1:J:245:LYS:HE2	2.19	0.41
1:I:603:ILE:O	1:I:605:VAL:HG23	2.20	0.41
1:I:643:ILE:HB	1:I:699:TYR:HB2	2.02	0.41
1:L:224:GLU:HB2	1:L:517:THR:HG21	2.01	0.41
1:L:481:LEU:O	1:L:482:PRO:C	2.63	0.41
1:M:394:ILE:HD13	1:M:421:LEU:HD22	2.02	0.41
1:A:521:MET:CE	1:A:525:GLU:HB3	2.51	0.41
1:A:574:ILE:C	1:A:576:THR:N	2.78	0.41
1:B:454:GLN:HA	1:B:456:TYR:HE2	1.82	0.41
1:B:647:GLU:OE1	1:B:695:LYS:HD3	2.19	0.41
1:C:642:TYR:CD2	1:C:666:SER:HB3	2.55	0.41
1:D:492:ILE:HA	1:D:501:VAL:O	2.21	0.41
1:D:497:ASP:C	1:D:499:ASN:N	2.79	0.41
1:E:346:TRP:CZ2	1:E:446:LYS:HE3	2.55	0.41
1:E:401:LEU:HD12	1:E:401:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:642:TYR:CE1	1:E:700:ALA:HB2	2.56	0.41
1:F:346:TRP:CZ2	1:F:446:LYS:HE3	2.55	0.41
1:F:383:LEU:HD23	1:F:384:VAL:N	2.35	0.41
1:H:497:ASP:C	1:H:499:ASN:N	2.79	0.41
1:J:231:ASP:CA	1:J:484:ILE:HD11	2.50	0.41
1:J:259:TYR:HA	1:J:477:TRP:CZ3	2.56	0.41
1:J:346:TRP:CZ2	1:J:446:LYS:HE3	2.55	0.41
1:J:401:LEU:HD12	1:J:401:LEU:O	2.20	0.41
1:J:558:THR:HG23	1:J:587:MET:HG2	2.02	0.41
1:J:642:TYR:CD2	1:J:666:SER:HB3	2.55	0.41
1:K:377:VAL:HG13	1:K:398:GLU:HG3	2.02	0.41
1:K:642:TYR:CD2	1:K:666:SER:HB3	2.55	0.41
1:L:385:LEU:HD12	1:L:386:GLY:N	2.35	0.41
1:M:199:LYS:HD2	1:M:199:LYS:HA	1.89	0.41
1:M:200:ARG:H	1:M:200:ARG:CD	2.33	0.41
1:M:380:THR:HG23	1:M:395:LYS:HB2	2.02	0.41
1:O:380:THR:HG23	1:O:395:LYS:HB2	2.02	0.41
1:O:454:GLN:HA	1:O:456:TYR:HE2	1.82	0.41
1:A:187:LEU:HD23	1:A:205:PRO:HB3	2.02	0.41
1:A:259:TYR:HA	1:A:477:TRP:CZ3	2.56	0.41
1:A:271:LEU:CD2	1:A:360:LEU:HD13	2.49	0.41
1:A:346:TRP:CZ2	1:A:446:LYS:HE3	2.55	0.41
1:A:400:GLN:HG3	1:A:401:LEU:N	2.35	0.41
1:B:231:ASP:N	1:B:484:ILE:HD11	2.34	0.41
1:B:316:ILE:O	1:B:318:GLY:N	2.53	0.41
1:B:378:LEU:HG	1:B:379:PRO:HD2	2.01	0.41
1:B:385:LEU:HD12	1:B:386:GLY:N	2.35	0.41
1:C:413:SER:C	1:C:415:ASN:N	2.77	0.41
1:D:377:VAL:HG13	1:D:398:GLU:HG3	2.02	0.41
1:D:401:LEU:HD12	1:D:401:LEU:O	2.20	0.41
1:D:510:PRO:HG2	1:D:511:SER:H	1.85	0.41
1:D:643:ILE:HB	1:D:699:TYR:HB2	2.02	0.41
1:E:603:ILE:O	1:E:605:VAL:HG23	2.20	0.41
1:F:259:TYR:HA	1:F:477:TRP:CZ3	2.56	0.41
1:F:385:LEU:HD12	1:F:386:GLY:N	2.35	0.41
1:F:453:ASP:OD1	1:F:455:VAL:HG12	2.20	0.41
1:F:574:ILE:C	1:F:576:THR:N	2.78	0.41
1:G:453:ASP:OD1	1:G:455:VAL:HG12	2.20	0.41
1:H:220:LYS:O	1:H:519:PRO:HG2	2.20	0.41
1:H:385:LEU:HD12	1:H:386:GLY:N	2.35	0.41
1:I:521:MET:CE	1:I:525:GLU:HB3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:220:LYS:O	1:J:519:PRO:HG2	2.20	0.41
1:J:253:HIS:HA	1:J:254:PRO:HD3	1.82	0.41
1:J:380:THR:HG23	1:J:395:LYS:HB2	2.02	0.41
1:J:383:LEU:C	1:J:383:LEU:CD2	2.93	0.41
1:J:606:GLY:HA2	1:J:638:ILE:CD1	2.41	0.41
1:J:643:ILE:HB	1:J:699:TYR:HB2	2.02	0.41
1:K:383:LEU:C	1:K:383:LEU:CD2	2.93	0.41
1:K:558:THR:HG23	1:K:587:MET:HG2	2.02	0.41
1:K:584:ASN:H	1:K:587:MET:HE1	1.82	0.41
1:L:320:VAL:C	1:L:322:ALA:H	2.29	0.41
1:L:400:GLN:HG3	1:L:401:LEU:N	2.35	0.41
1:L:453:ASP:OD1	1:L:455:VAL:HG12	2.20	0.41
1:L:607:ALA:N	1:L:638:ILE:HD12	2.34	0.41
1:M:220:LYS:O	1:M:519:PRO:HG2	2.20	0.41
1:M:383:LEU:HD23	1:M:384:VAL:N	2.35	0.41
1:M:497:ASP:C	1:M:499:ASN:N	2.79	0.41
1:M:532:GLY:O	1:M:533:PHE:C	2.61	0.41
1:M:606:GLY:HA2	1:M:638:ILE:CD1	2.41	0.41
1:O:220:LYS:O	1:O:519:PRO:HG2	2.20	0.41
1:O:385:LEU:HD12	1:O:386:GLY:N	2.35	0.41
1:O:436:TYR:O	1:O:437:ASN:C	2.61	0.41
1:A:364:ILE:C	1:A:364:ILE:CD1	2.94	0.41
1:A:483:GLN:NE2	1:B:469:VAL:HG21	2.36	0.41
1:B:271:LEU:CD2	1:B:360:LEU:HD13	2.49	0.41
1:B:364:ILE:C	1:B:364:ILE:CD1	2.94	0.41
1:C:220:LYS:O	1:C:519:PRO:HG2	2.20	0.41
1:C:231:ASP:CA	1:C:484:ILE:HD11	2.49	0.41
1:C:401:LEU:HD12	1:C:401:LEU:O	2.20	0.41
1:C:558:THR:HG23	1:C:587:MET:HG2	2.02	0.41
1:D:220:LYS:O	1:D:519:PRO:HG2	2.20	0.41
1:D:400:GLN:HG3	1:D:401:LEU:N	2.35	0.41
1:D:493:PHE:HB3	1:D:531:PHE:CE1	2.56	0.41
1:E:259:TYR:HA	1:E:477:TRP:CZ3	2.56	0.41
1:E:377:VAL:HG13	1:E:398:GLU:HG3	2.02	0.41
1:E:453:ASP:OD1	1:E:455:VAL:HG12	2.20	0.41
1:E:492:ILE:HA	1:E:501:VAL:O	2.21	0.41
1:E:606:GLY:CA	1:E:638:ILE:HD12	2.39	0.41
1:E:643:ILE:HB	1:E:699:TYR:HB2	2.02	0.41
1:F:319:SER:CA	1:O:414:LYS:HG3	2.50	0.41
1:F:364:ILE:C	1:F:364:ILE:CD1	2.94	0.41
1:F:493:PHE:HB3	1:F:531:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:558:THR:HG23	1:F:587:MET:HG2	2.02	0.41
1:G:187:LEU:HD23	1:G:205:PRO:HB3	2.02	0.41
1:G:578:LEU:HD12	1:G:578:LEU:HA	1.90	0.41
1:G:643:ILE:HB	1:G:699:TYR:HB2	2.03	0.41
1:H:189:VAL:HG13	1:I:199:LYS:CB	2.50	0.41
1:H:346:TRP:CZ2	1:H:446:LYS:HE3	2.55	0.41
1:I:316:ILE:O	1:I:318:GLY:N	2.53	0.41
1:I:381:THR:HA	1:I:452:THR:HA	2.01	0.41
1:I:458:ASN:ND2	1:I:476:ASN:HB2	2.27	0.41
1:I:642:TYR:CE1	1:I:700:ALA:HB2	2.56	0.41
1:J:603:ILE:O	1:J:605:VAL:HG23	2.20	0.41
1:K:200:ARG:H	1:K:200:ARG:CD	2.33	0.41
1:K:306:ASN:HA	1:L:669:ARG:CB	2.50	0.41
1:K:521:MET:CE	1:K:525:GLU:HB3	2.51	0.41
1:L:368:ASN:ND2	1:L:407:PRO:CA	2.82	0.41
1:L:407:PRO:O	1:L:408:ASN:C	2.62	0.41
1:L:492:ILE:HA	1:L:501:VAL:O	2.20	0.41
1:M:271:LEU:CD2	1:M:360:LEU:HD13	2.49	0.41
1:O:400:GLN:HG3	1:O:401:LEU:N	2.35	0.41
1:O:521:MET:CE	1:O:525:GLU:HB3	2.51	0.41
1:O:642:TYR:CE1	1:O:700:ALA:HB2	2.56	0.41
1:A:453:ASP:OD1	1:A:455:VAL:HG12	2.20	0.41
1:B:319:SER:N	1:C:414:LYS:HG3	2.33	0.41
1:C:381:THR:HA	1:C:452:THR:HA	2.01	0.41
1:C:400:GLN:HG3	1:C:401:LEU:N	2.35	0.41
1:C:493:PHE:HB3	1:C:531:PHE:CE1	2.56	0.41
1:D:224:GLU:HB2	1:D:517:THR:HG21	2.01	0.41
1:D:453:ASP:OD1	1:D:455:VAL:HG12	2.20	0.41
1:D:521:MET:CE	1:D:522:THR:H	2.34	0.41
1:D:642:TYR:CE1	1:D:700:ALA:HB2	2.56	0.41
1:E:481:LEU:O	1:E:482:PRO:C	2.63	0.41
1:E:481:LEU:O	1:E:485:GLN:HG3	2.21	0.41
1:E:493:PHE:HB3	1:E:531:PHE:CE1	2.56	0.41
1:F:481:LEU:O	1:F:485:GLN:HG3	2.21	0.41
1:G:222:SER:HB2	1:G:518:LYS:HA	2.03	0.41
1:G:413:SER:C	1:G:415:ASN:N	2.76	0.41
1:H:521:MET:CE	1:H:525:GLU:HB3	2.51	0.41
1:I:220:LYS:O	1:I:519:PRO:HG2	2.20	0.41
1:I:401:LEU:HD12	1:I:401:LEU:O	2.20	0.41
1:I:436:TYR:O	1:I:437:ASN:C	2.61	0.41
1:I:578:LEU:HD12	1:I:578:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:479:GLU:OE1	1:K:470:ARG:CG	2.65	0.41
1:K:493:PHE:HB3	1:K:531:PHE:CE1	2.56	0.41
1:K:513:PRO:HB2	1:L:240:THR:O	2.20	0.41
1:K:643:ILE:HB	1:K:699:TYR:HB2	2.02	0.41
1:K:723:LYS:H	1:K:723:LYS:HG2	1.64	0.41
1:L:319:SER:HA	1:M:414:LYS:HG3	2.03	0.41
1:L:600:ARG:HG2	1:L:600:ARG:NH1	2.33	0.41
1:M:603:ILE:O	1:M:605:VAL:HG23	2.20	0.41
1:O:401:LEU:HD12	1:O:401:LEU:O	2.20	0.41
1:O:510:PRO:HG2	1:O:511:SER:H	1.85	0.41
1:A:558:THR:HG23	1:A:587:MET:HG2	2.02	0.41
1:B:259:TYR:HA	1:B:477:TRP:CZ3	2.56	0.41
1:B:320:VAL:C	1:B:322:ALA:N	2.79	0.41
1:B:510:PRO:HG2	1:B:511:SER:H	1.85	0.41
1:D:378:LEU:HA	1:D:379:PRO:HD3	1.90	0.41
1:D:391:LEU:O	1:D:392:ALA:HB2	2.21	0.41
1:E:385:LEU:HD12	1:E:386:GLY:N	2.35	0.41
1:E:458:ASN:ND2	1:E:476:ASN:HB2	2.27	0.41
1:F:642:TYR:CD2	1:F:666:SER:HB3	2.56	0.41
1:G:394:ILE:HD13	1:G:421:LEU:HD22	2.02	0.41
1:G:401:LEU:HD12	1:G:401:LEU:O	2.20	0.41
1:G:493:PHE:HB3	1:G:531:PHE:CE1	2.56	0.41
1:H:521:MET:CE	1:H:522:THR:H	2.34	0.41
1:I:222:SER:HB2	1:I:518:LYS:HA	2.03	0.41
1:I:521:MET:CE	1:I:522:THR:H	2.34	0.41
1:J:222:SER:HB2	1:J:518:LYS:HA	2.03	0.41
1:J:378:LEU:HG	1:J:379:PRO:HD2	2.01	0.41
1:J:479:GLU:HG2	1:K:471:VAL:HG23	2.03	0.41
1:J:497:ASP:C	1:J:499:ASN:N	2.79	0.41
1:J:642:TYR:CE1	1:J:700:ALA:HB2	2.56	0.41
1:K:346:TRP:CZ2	1:K:446:LYS:HE3	2.55	0.41
1:K:607:ALA:N	1:K:638:ILE:HD12	2.34	0.41
1:K:642:TYR:CE1	1:K:700:ALA:HB2	2.56	0.41
1:L:195:ASP:O	1:L:202:PHE:N	2.43	0.41
1:L:510:PRO:HG2	1:L:511:SER:H	1.86	0.41
1:M:222:SER:HB2	1:M:518:LYS:HA	2.03	0.41
1:M:391:LEU:O	1:M:392:ALA:HB2	2.21	0.41
1:M:481:LEU:O	1:M:485:GLN:HG3	2.21	0.41
1:M:510:PRO:HG2	1:M:511:SER:H	1.85	0.41
1:O:346:TRP:CZ2	1:O:446:LYS:HE3	2.55	0.41
1:O:492:ILE:HA	1:O:501:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:607:ALA:N	1:O:638:ILE:HD12	2.34	0.41
1:A:316:ILE:O	1:A:318:GLY:N	2.53	0.41
1:A:383:LEU:HD23	1:A:384:VAL:N	2.35	0.41
1:A:481:LEU:O	1:A:482:PRO:C	2.63	0.41
1:B:346:TRP:CZ2	1:B:446:LYS:HE3	2.55	0.41
1:B:492:ILE:HA	1:B:501:VAL:O	2.21	0.41
1:B:642:TYR:CE1	1:B:700:ALA:HB2	2.55	0.41
1:C:263:HIS:CE1	1:C:367:VAL:HG11	2.56	0.41
1:C:391:LEU:O	1:C:392:ALA:HB2	2.21	0.41
1:C:642:TYR:CE1	1:C:700:ALA:HB2	2.56	0.41
1:D:263:HIS:CE1	1:D:367:VAL:HG11	2.56	0.41
1:D:383:LEU:HD23	1:D:384:VAL:N	2.35	0.41
1:D:513:PRO:HG2	1:E:239:VAL:O	2.20	0.41
1:E:521:MET:CE	1:E:525:GLU:HB3	2.51	0.41
1:E:642:TYR:CD2	1:E:666:SER:HB3	2.55	0.41
1:F:400:GLN:HG3	1:F:401:LEU:N	2.35	0.41
1:F:492:ILE:HA	1:F:501:VAL:O	2.20	0.41
1:F:515:GLU:OE1	1:O:245:LYS:CE	2.69	0.41
1:G:481:LEU:O	1:G:482:PRO:C	2.63	0.41
1:H:189:VAL:CG1	1:I:199:LYS:HB2	2.51	0.41
1:H:481:LEU:O	1:H:482:PRO:C	2.63	0.41
1:H:492:ILE:HA	1:H:501:VAL:O	2.21	0.41
1:H:642:TYR:CE1	1:H:700:ALA:HB2	2.56	0.41
1:I:468:ARG:HG3	1:I:468:ARG:HH11	1.86	0.41
1:I:723:LYS:H	1:I:723:LYS:HG2	1.64	0.41
1:J:454:GLN:HA	1:J:456:TYR:HE2	1.82	0.41
1:J:481:LEU:O	1:J:485:GLN:HG3	2.21	0.41
1:K:481:LEU:O	1:K:482:PRO:C	2.63	0.41
1:L:364:ILE:C	1:L:364:ILE:CD1	2.94	0.41
1:L:436:TYR:O	1:L:437:ASN:C	2.61	0.41
1:L:481:LEU:O	1:L:485:GLN:HG3	2.21	0.41
1:L:493:PHE:HB3	1:L:531:PHE:CE1	2.56	0.41
1:L:497:ASP:C	1:L:499:ASN:N	2.79	0.41
1:L:521:MET:CE	1:L:522:THR:H	2.34	0.41
1:L:521:MET:CE	1:L:525:GLU:HB3	2.51	0.41
1:M:187:LEU:HD23	1:M:205:PRO:HB3	2.02	0.41
1:M:316:ILE:C	1:M:318:GLY:N	2.77	0.41
1:M:400:GLN:HG3	1:M:401:LEU:N	2.35	0.41
1:M:521:MET:CE	1:M:525:GLU:HB3	2.51	0.41
1:O:320:VAL:C	1:O:322:ALA:N	2.79	0.41
1:O:391:LEU:O	1:O:392:ALA:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:481:LEU:O	1:O:482:PRO:C	2.63	0.41
1:O:521:MET:CE	1:O:522:THR:H	2.34	0.41
1:O:584:ASN:H	1:O:587:MET:HE1	1.82	0.41
1:A:394:ILE:HD13	1:A:421:LEU:HD22	2.02	0.41
1:A:414:LYS:HG3	1:O:319:SER:HA	2.02	0.41
1:A:481:LEU:O	1:A:485:GLN:HG3	2.21	0.41
1:A:642:TYR:CE1	1:A:700:ALA:HB2	2.56	0.41
1:B:200:ARG:N	1:B:200:ARG:CD	2.84	0.41
1:B:263:HIS:CE1	1:B:367:VAL:HG11	2.56	0.41
1:B:511:SER:O	1:B:513:PRO:HD3	2.21	0.41
1:B:514:LEU:HD22	1:C:242:ARG:HG2	2.03	0.41
1:B:603:ILE:O	1:B:605:VAL:HG23	2.20	0.41
1:B:642:TYR:CD2	1:B:666:SER:HB3	2.55	0.41
1:B:643:ILE:HB	1:B:699:TYR:HB2	2.02	0.41
1:C:394:ILE:HD13	1:C:421:LEU:HD22	2.02	0.41
1:C:574:ILE:C	1:C:576:THR:N	2.78	0.41
1:D:200:ARG:H	1:D:200:ARG:CD	2.33	0.41
1:D:364:ILE:C	1:D:364:ILE:CD1	2.94	0.41
1:D:521:MET:CE	1:D:525:GLU:HB3	2.51	0.41
1:D:606:GLY:CA	1:D:638:ILE:HD12	2.39	0.41
1:E:320:VAL:C	1:E:322:ALA:H	2.29	0.41
1:E:364:ILE:C	1:E:364:ILE:CD1	2.94	0.41
1:E:510:PRO:HG2	1:E:511:SER:H	1.85	0.41
1:F:187:LEU:HD23	1:F:205:PRO:HB3	2.02	0.41
1:F:200:ARG:N	1:F:200:ARG:CD	2.84	0.41
1:F:223:PRO:HD2	1:F:517:THR:CG2	2.40	0.41
1:F:320:VAL:C	1:F:322:ALA:H	2.29	0.41
1:F:391:LEU:O	1:F:392:ALA:HB2	2.21	0.41
1:F:603:ILE:O	1:F:605:VAL:HG23	2.20	0.41
1:G:383:LEU:HD23	1:G:384:VAL:N	2.35	0.41
1:G:385:LEU:HD12	1:G:386:GLY:N	2.35	0.41
1:G:492:ILE:HA	1:G:501:VAL:O	2.20	0.41
1:G:521:MET:CE	1:G:525:GLU:HB3	2.51	0.41
1:G:603:ILE:O	1:G:605:VAL:HG23	2.20	0.41
1:H:189:VAL:HG13	1:I:199:LYS:HB2	2.03	0.41
1:H:222:SER:HB2	1:H:518:LYS:HA	2.03	0.41
1:H:316:ILE:C	1:H:318:GLY:N	2.77	0.41
1:H:364:ILE:C	1:H:364:ILE:CD1	2.94	0.41
1:H:368:ASN:ND2	1:H:407:PRO:CA	2.81	0.41
1:H:391:LEU:O	1:H:392:ALA:HB2	2.21	0.41
1:H:453:ASP:OD1	1:H:455:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:510:PRO:HG2	1:H:511:SER:H	1.85	0.41
1:H:642:TYR:CD2	1:H:666:SER:HB3	2.56	0.41
1:H:643:ILE:HB	1:H:699:TYR:HB2	2.02	0.41
1:I:263:HIS:CE1	1:I:367:VAL:HG11	2.56	0.41
1:I:391:LEU:O	1:I:392:ALA:HB2	2.21	0.41
1:I:492:ILE:HA	1:I:501:VAL:O	2.20	0.41
1:I:497:ASP:O	1:I:499:ASN:N	2.52	0.41
1:I:558:THR:HG23	1:I:587:MET:HG2	2.02	0.41
1:I:584:ASN:H	1:I:587:MET:HE1	1.82	0.41
1:J:320:VAL:C	1:J:322:ALA:N	2.79	0.41
1:J:383:LEU:HD23	1:J:384:VAL:N	2.35	0.41
1:J:407:PRO:O	1:J:408:ASN:C	2.62	0.41
1:J:511:SER:O	1:J:513:PRO:HD3	2.21	0.41
1:J:574:ILE:C	1:J:576:THR:N	2.78	0.41
1:K:320:VAL:C	1:K:322:ALA:N	2.79	0.41
1:K:364:ILE:C	1:K:364:ILE:CD1	2.94	0.41
1:K:481:LEU:O	1:K:485:GLN:HG3	2.21	0.41
1:K:510:PRO:HG2	1:K:511:SER:H	1.85	0.41
1:L:200:ARG:N	1:L:200:ARG:CD	2.84	0.41
1:L:263:HIS:CE1	1:L:367:VAL:HG11	2.56	0.41
1:L:401:LEU:HD12	1:L:401:LEU:O	2.20	0.41
1:L:642:TYR:CD2	1:L:666:SER:HB3	2.55	0.41
1:M:253:HIS:HA	1:M:254:PRO:HD3	1.82	0.41
1:M:346:TRP:CZ2	1:M:446:LYS:HE3	2.55	0.41
1:M:385:LEU:HD12	1:M:386:GLY:N	2.35	0.41
1:M:401:LEU:HD12	1:M:401:LEU:O	2.20	0.41
1:M:468:ARG:HH11	1:M:468:ARG:HG3	1.86	0.41
1:M:525:GLU:O	1:M:526:ALA:C	2.64	0.41
1:O:364:ILE:C	1:O:364:ILE:CD1	2.94	0.41
1:O:377:VAL:HG13	1:O:398:GLU:HG3	2.02	0.41
1:O:481:LEU:O	1:O:485:GLN:HG3	2.21	0.41
1:A:220:LYS:O	1:A:519:PRO:HG2	2.20	0.41
1:A:401:LEU:HD12	1:A:401:LEU:O	2.20	0.41
1:A:497:ASP:C	1:A:499:ASN:N	2.79	0.41
1:A:507:ALA:HB3	1:A:585:ALA:HA	2.04	0.41
1:A:642:TYR:CD2	1:A:666:SER:HB3	2.55	0.41
1:B:380:THR:OG1	1:B:395:LYS:HE2	2.22	0.41
1:C:199:LYS:HD2	1:C:199:LYS:HA	1.89	0.41
1:C:383:LEU:HD23	1:C:384:VAL:N	2.35	0.41
1:C:385:LEU:HD12	1:C:386:GLY:N	2.35	0.41
1:D:533:PHE:HB3	1:D:540:LEU:CD1	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:195:ASP:O	1:F:202:PHE:N	2.43	0.41
1:F:516:THR:HB	1:O:196:VAL:HG11	2.02	0.41
1:F:533:PHE:HB3	1:F:540:LEU:CD1	2.46	0.41
1:F:642:TYR:CE1	1:F:700:ALA:HB2	2.56	0.41
1:G:230:SER:HB2	1:G:484:ILE:HD12	2.03	0.41
1:G:377:VAL:HG13	1:G:398:GLU:HG3	2.02	0.41
1:G:481:LEU:O	1:G:485:GLN:HG3	2.21	0.41
1:G:525:GLU:O	1:G:526:ALA:C	2.64	0.41
1:G:642:TYR:CD2	1:G:666:SER:HB3	2.55	0.41
1:H:383:LEU:HD23	1:H:384:VAL:N	2.35	0.41
1:H:558:THR:HG23	1:H:587:MET:HG2	2.02	0.41
1:I:481:LEU:O	1:I:482:PRO:C	2.63	0.41
1:I:493:PHE:HB3	1:I:531:PHE:CE1	2.56	0.41
1:I:510:PRO:HG2	1:I:511:SER:H	1.85	0.41
1:J:497:ASP:O	1:J:499:ASN:N	2.52	0.41
1:K:187:LEU:HD23	1:K:205:PRO:HB3	2.02	0.41
1:L:266:MET:HB3	1:L:332:VAL:HG11	2.03	0.41
1:L:383:LEU:HD23	1:L:384:VAL:N	2.35	0.41
1:M:234:SER:OG	1:M:237:GLU:HG3	2.21	0.41
1:M:407:PRO:O	1:M:408:ASN:C	2.62	0.41
1:M:558:THR:HG23	1:M:587:MET:HG2	2.02	0.41
1:M:642:TYR:CE1	1:M:700:ALA:HB2	2.56	0.41
1:M:643:ILE:HB	1:M:699:TYR:HB2	2.02	0.41
1:O:493:PHE:HB3	1:O:531:PHE:CE1	2.56	0.41
1:O:533:PHE:HB3	1:O:540:LEU:CD1	2.46	0.41
1:A:230:SER:HB2	1:A:484:ILE:HD12	2.03	0.40
1:A:493:PHE:HB3	1:A:531:PHE:CE1	2.56	0.40
1:A:643:ILE:HB	1:A:699:TYR:HB2	2.03	0.40
1:B:332:VAL:O	1:B:447:GLN:HB2	2.22	0.40
1:B:391:LEU:O	1:B:392:ALA:HB2	2.21	0.40
1:C:364:ILE:C	1:C:364:ILE:CD1	2.94	0.40
1:C:481:LEU:O	1:C:482:PRO:C	2.63	0.40
1:C:510:PRO:HG2	1:C:511:SER:H	1.85	0.40
1:C:521:MET:CE	1:C:522:THR:H	2.34	0.40
1:C:603:ILE:O	1:C:605:VAL:HG23	2.20	0.40
1:D:259:TYR:HA	1:D:477:TRP:CZ3	2.56	0.40
1:D:380:THR:OG1	1:D:395:LYS:HE2	2.22	0.40
1:D:481:LEU:O	1:D:482:PRO:C	2.63	0.40
1:D:603:ILE:O	1:D:605:VAL:HG23	2.20	0.40
1:E:222:SER:HB2	1:E:518:LYS:HA	2.03	0.40
1:E:263:HIS:CE1	1:E:367:VAL:HG11	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:234:SER:OG	1:F:237:GLU:HG3	2.22	0.40
1:G:364:ILE:C	1:G:364:ILE:CD1	2.94	0.40
1:G:468:ARG:HH11	1:G:468:ARG:HG3	1.86	0.40
1:H:259:TYR:HA	1:H:477:TRP:CZ3	2.56	0.40
1:H:320:VAL:C	1:H:322:ALA:N	2.79	0.40
1:H:468:ARG:HH11	1:H:468:ARG:HG3	1.86	0.40
1:H:497:ASP:O	1:H:499:ASN:N	2.52	0.40
1:I:364:ILE:C	1:I:364:ILE:CD1	2.94	0.40
1:I:377:VAL:HG13	1:I:398:GLU:HG3	2.02	0.40
1:I:380:THR:OG1	1:I:395:LYS:HE2	2.21	0.40
1:I:481:LEU:O	1:I:485:GLN:HG3	2.21	0.40
1:I:574:ILE:C	1:I:576:THR:N	2.78	0.40
1:J:364:ILE:C	1:J:364:ILE:CD1	2.94	0.40
1:J:404:ILE:N	1:J:404:ILE:CD1	2.84	0.40
1:J:510:PRO:HG2	1:J:511:SER:H	1.85	0.40
1:K:259:TYR:HA	1:K:477:TRP:CZ3	2.56	0.40
1:K:266:MET:HB3	1:K:332:VAL:HG11	2.03	0.40
1:L:220:LYS:O	1:L:519:PRO:HG2	2.20	0.40
1:L:391:LEU:O	1:L:392:ALA:HB2	2.21	0.40
1:L:574:ILE:C	1:L:576:THR:N	2.78	0.40
1:L:643:ILE:HB	1:L:699:TYR:HB2	2.02	0.40
1:M:364:ILE:C	1:M:364:ILE:CD1	2.94	0.40
1:M:368:ASN:ND2	1:M:407:PRO:CA	2.82	0.40
1:M:574:ILE:C	1:M:576:THR:N	2.78	0.40
1:A:222:SER:HB2	1:A:518:LYS:HA	2.03	0.40
1:A:320:VAL:C	1:A:322:ALA:H	2.29	0.40
1:A:468:ARG:HH11	1:A:468:ARG:HG3	1.86	0.40
1:B:266:MET:HB3	1:B:332:VAL:HG11	2.03	0.40
1:B:453:ASP:OD1	1:B:455:VAL:HG12	2.20	0.40
1:B:521:MET:CE	1:B:522:THR:H	2.34	0.40
1:C:230:SER:HB2	1:C:484:ILE:HD12	2.04	0.40
1:C:259:TYR:HA	1:C:477:TRP:CZ3	2.56	0.40
1:C:492:ILE:HA	1:C:501:VAL:O	2.20	0.40
1:D:320:VAL:C	1:D:322:ALA:N	2.79	0.40
1:D:468:ARG:HG3	1:D:468:ARG:HH11	1.86	0.40
1:E:187:LEU:HD23	1:E:205:PRO:HB3	2.02	0.40
1:E:324:PHE:HE1	1:E:588:ASN:CB	2.25	0.40
1:E:378:LEU:HG	1:E:379:PRO:HD2	2.01	0.40
1:E:391:LEU:O	1:E:392:ALA:HB2	2.21	0.40
1:F:222:SER:HB2	1:F:518:LYS:HA	2.03	0.40
1:F:521:MET:CE	1:F:525:GLU:HB3	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:259:TYR:HA	1:G:477:TRP:CZ3	2.56	0.40
1:G:316:ILE:O	1:G:318:GLY:N	2.53	0.40
1:I:259:TYR:HA	1:I:477:TRP:CZ3	2.56	0.40
1:I:411:TYR:HD2	1:I:412:PRO:CD	2.34	0.40
1:J:234:SER:OG	1:J:237:GLU:HG3	2.22	0.40
1:J:332:VAL:O	1:J:447:GLN:HB2	2.22	0.40
1:J:391:LEU:O	1:J:392:ALA:HB2	2.21	0.40
1:J:481:LEU:O	1:J:482:PRO:C	2.63	0.40
1:J:492:ILE:HA	1:J:501:VAL:O	2.20	0.40
1:J:521:MET:CE	1:J:522:THR:H	2.34	0.40
1:J:548:THR:HA	1:J:575:TYR:CD1	2.57	0.40
1:K:453:ASP:OD1	1:K:455:VAL:HG12	2.20	0.40
1:M:263:HIS:CE1	1:M:367:VAL:HG11	2.56	0.40
1:M:380:THR:OG1	1:M:395:LYS:HE2	2.22	0.40
1:M:411:TYR:HD2	1:M:412:PRO:CD	2.34	0.40
1:M:507:ALA:HB3	1:M:585:ALA:HA	2.04	0.40
1:M:548:THR:HA	1:M:575:TYR:CD1	2.57	0.40
1:O:511:SER:O	1:O:513:PRO:HD3	2.21	0.40
1:A:391:LEU:O	1:A:392:ALA:HB2	2.21	0.40
1:A:521:MET:CE	1:A:522:THR:H	2.34	0.40
1:B:377:VAL:HG13	1:B:398:GLU:HG3	2.02	0.40
1:C:266:MET:HB3	1:C:332:VAL:HG11	2.03	0.40
1:C:404:ILE:N	1:C:404:ILE:CD1	2.84	0.40
1:C:481:LEU:O	1:C:485:GLN:HG3	2.21	0.40
1:D:332:VAL:O	1:D:447:GLN:HB2	2.22	0.40
1:E:229:ALA:HB1	1:E:257:ALA:HA	2.04	0.40
1:E:574:ILE:C	1:E:576:THR:N	2.78	0.40
1:F:468:ARG:HH11	1:F:468:ARG:HG3	1.86	0.40
1:F:511:SER:O	1:F:513:PRO:HD3	2.21	0.40
1:F:574:ILE:C	1:F:576:THR:H	2.30	0.40
1:F:691:ASN:O	1:F:693:ASN:N	2.55	0.40
1:G:229:ALA:HB1	1:G:257:ALA:HA	2.04	0.40
1:G:234:SER:OG	1:G:237:GLU:HG3	2.22	0.40
1:G:574:ILE:C	1:G:576:THR:N	2.78	0.40
1:H:320:VAL:C	1:H:322:ALA:H	2.29	0.40
1:H:332:VAL:O	1:H:447:GLN:HB2	2.22	0.40
1:H:424:GLN:O	1:H:425:ASP:CB	2.69	0.40
1:I:200:ARG:H	1:I:200:ARG:CD	2.33	0.40
1:I:332:VAL:O	1:I:447:GLN:HB2	2.21	0.40
1:I:383:LEU:HD23	1:I:384:VAL:N	2.35	0.40
1:J:320:VAL:C	1:J:322:ALA:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:525:GLU:O	1:J:526:ALA:C	2.64	0.40
1:J:584:ASN:H	1:J:587:MET:HE1	1.82	0.40
1:K:263:HIS:CE1	1:K:367:VAL:HG11	2.56	0.40
1:K:365:ARG:CB	1:K:412:PRO:HD2	2.52	0.40
1:K:468:ARG:HH11	1:K:468:ARG:HG3	1.86	0.40
1:L:187:LEU:HD23	1:L:205:PRO:HB3	2.02	0.40
1:L:197:LYS:O	1:L:198:ASN:O	2.40	0.40
1:L:365:ARG:CB	1:L:412:PRO:HD2	2.52	0.40
1:L:574:ILE:C	1:L:576:THR:H	2.30	0.40
1:M:493:PHE:HB3	1:M:531:PHE:CE1	2.56	0.40
1:M:723:LYS:H	1:M:723:LYS:HG2	1.64	0.40
1:O:488:THR:CB	1:O:504:ARG:HB3	2.51	0.40
1:O:507:ALA:HB3	1:O:585:ALA:HA	2.04	0.40
1:O:548:THR:HA	1:O:575:TYR:CD1	2.57	0.40
1:O:558:THR:HG23	1:O:587:MET:HG2	2.02	0.40
1:O:643:ILE:HB	1:O:699:TYR:HB2	2.02	0.40
1:A:200:ARG:N	1:A:200:ARG:CD	2.84	0.40
1:A:229:ALA:HB1	1:A:257:ALA:HA	2.04	0.40
1:A:253:HIS:HA	1:A:254:PRO:HD3	1.82	0.40
1:A:263:HIS:CE1	1:A:367:VAL:HG11	2.56	0.40
1:A:496:LYS:HG2	1:A:542:TYR:OH	2.22	0.40
1:A:584:ASN:H	1:A:587:MET:HE1	1.82	0.40
1:B:197:LYS:O	1:B:198:ASN:O	2.40	0.40
1:B:481:LEU:O	1:B:485:GLN:HG3	2.21	0.40
1:C:320:VAL:C	1:C:322:ALA:N	2.79	0.40
1:C:468:ARG:HH11	1:C:468:ARG:HG3	1.86	0.40
1:D:230:SER:HB2	1:D:484:ILE:HD12	2.04	0.40
1:D:261:ILE:HB	1:D:370:GLY:N	2.37	0.40
1:D:574:ILE:C	1:D:576:THR:H	2.30	0.40
1:E:320:VAL:C	1:E:322:ALA:N	2.79	0.40
1:F:230:SER:HB2	1:F:484:ILE:HD12	2.03	0.40
1:F:480:VAL:CG2	1:O:468:ARG:HD3	2.52	0.40
1:G:548:THR:HA	1:G:575:TYR:CD1	2.57	0.40
1:H:189:VAL:CG1	1:I:199:LYS:HG2	2.52	0.40
1:H:493:PHE:HB3	1:H:531:PHE:CE1	2.56	0.40
1:H:548:THR:HA	1:H:575:TYR:CD1	2.57	0.40
1:I:320:VAL:C	1:I:322:ALA:N	2.79	0.40
1:I:365:ARG:CB	1:I:412:PRO:HD2	2.52	0.40
1:I:424:GLN:O	1:I:425:ASP:CB	2.69	0.40
1:I:513:PRO:HB2	1:J:240:THR:O	2.20	0.40
1:J:385:LEU:HD12	1:J:386:GLY:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:197:LYS:O	1:K:198:ASN:O	2.40	0.40
1:K:332:VAL:O	1:K:447:GLN:HB2	2.21	0.40
1:K:383:LEU:HD23	1:K:384:VAL:N	2.35	0.40
1:K:391:LEU:O	1:K:392:ALA:HB2	2.21	0.40
1:L:380:THR:OG1	1:L:395:LYS:HE2	2.22	0.40
1:L:468:ARG:HG3	1:L:468:ARG:HH11	1.86	0.40
1:L:558:THR:HG23	1:L:587:MET:HG2	2.02	0.40
1:M:259:TYR:HA	1:M:477:TRP:CZ3	2.56	0.40
1:O:525:GLU:O	1:O:526:ALA:C	2.64	0.40
1:A:175:VAL:HA	1:A:176:PRO:HD3	1.80	0.40
1:A:266:MET:HB3	1:A:332:VAL:HG11	2.03	0.40
1:B:365:ARG:CB	1:B:412:PRO:HD2	2.52	0.40
1:B:493:PHE:HB3	1:B:531:PHE:CE1	2.56	0.40
1:B:578:LEU:HD12	1:B:578:LEU:HA	1.90	0.40
1:C:365:ARG:CB	1:C:412:PRO:HD2	2.52	0.40
1:C:380:THR:OG1	1:C:395:LYS:HE2	2.22	0.40
1:C:497:ASP:C	1:C:499:ASN:N	2.79	0.40
1:D:197:LYS:O	1:D:198:ASN:O	2.40	0.40
1:D:224:GLU:OE2	1:E:201:THR:N	2.49	0.40
1:E:468:ARG:HH11	1:E:468:ARG:HG3	1.86	0.40
1:E:521:MET:CE	1:E:522:THR:H	2.34	0.40
1:F:332:VAL:O	1:F:447:GLN:HB2	2.22	0.40
1:F:507:ALA:HB3	1:F:585:ALA:HA	2.04	0.40
1:F:643:ILE:HB	1:F:699:TYR:HB2	2.02	0.40
1:G:380:THR:OG1	1:G:395:LYS:HE2	2.21	0.40
1:H:187:LEU:HD23	1:H:205:PRO:HB3	2.02	0.40
1:H:234:SER:OG	1:H:237:GLU:HG3	2.21	0.40
1:H:316:ILE:O	1:H:318:GLY:N	2.53	0.40
1:J:380:THR:OG1	1:J:395:LYS:HE2	2.22	0.40
1:K:229:ALA:HB1	1:K:257:ALA:HA	2.04	0.40
1:L:507:ALA:HB3	1:L:585:ALA:HA	2.04	0.40
1:M:365:ARG:CB	1:M:412:PRO:HD2	2.52	0.40
1:M:488:THR:CB	1:M:504:ARG:HB3	2.51	0.40
1:O:175:VAL:HA	1:O:176:PRO:HD3	1.80	0.40
1:O:320:VAL:C	1:O:322:ALA:H	2.29	0.40
1:O:394:ILE:HD13	1:O:421:LEU:HD22	2.02	0.40

All (33) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:197:LYS:NZ	1:H:694:TYR:OH[1_545]	0.73	1.47
1:E:197:LYS:NZ	1:J:694:TYR:OH[1_544]	0.83	1.37
1:L:694:TYR:OH	1:O:197:LYS:NZ[1_556]	0.90	1.30
1:B:659:ARG:CZ	1:M:213:LYS:NZ[1_455]	1.33	0.87
1:L:694:TYR:OH	1:O:197:LYS:CE[1_556]	1.38	0.82
1:D:659:ARG:CZ	1:H:213:LYS:NZ[1_445]	1.40	0.80
1:B:650:GLU:OE1	1:L:176:PRO:CG[1_455]	1.42	0.78
1:C:197:LYS:CE	1:H:694:TYR:OH[1_545]	1.49	0.71
1:L:682:ASN:CA	1:O:209:ASN:ND2[1_556]	1.50	0.70
1:B:659:ARG:NH1	1:M:213:LYS:NZ[1_455]	1.62	0.58
1:K:213:LYS:NZ	1:O:659:ARG:NE[1_656]	1.62	0.58
1:D:659:ARG:NH1	1:H:213:LYS:NZ[1_445]	1.69	0.51
1:K:213:LYS:NZ	1:O:659:ARG:CD[1_656]	1.74	0.46
1:C:197:LYS:NZ	1:H:694:TYR:CZ[1_545]	1.80	0.40
1:C:208:SER:CB	1:H:683:ASP:OD2[1_545]	1.80	0.40
1:L:683:ASP:OD2	1:O:208:SER:CB[1_556]	1.81	0.39
1:L:694:TYR:CZ	1:O:197:LYS:NZ[1_556]	1.81	0.39
1:D:650:GLU:OE1	1:G:176:PRO:CG[1_445]	1.86	0.34
1:C:209:ASN:ND2	1:H:682:ASN:CA[1_545]	1.87	0.33
1:B:659:ARG:NE	1:M:213:LYS:NZ[1_455]	1.89	0.31
1:K:213:LYS:NZ	1:O:659:ARG:CZ[1_656]	1.91	0.29
1:D:685:LEU:CD1	1:H:190:GLU:OE1[1_445]	1.94	0.26
1:D:659:ARG:NH2	1:H:213:LYS:NZ[1_445]	1.96	0.24
1:B:650:GLU:CD	1:L:176:PRO:CG[1_455]	2.02	0.18
1:E:197:LYS:CE	1:J:694:TYR:OH[1_544]	2.05	0.15
1:B:659:ARG:NH2	1:M:213:LYS:NZ[1_455]	2.09	0.11
1:B:650:GLU:OE1	1:L:176:PRO:CD[1_455]	2.10	0.10
1:D:659:ARG:NE	1:H:213:LYS:NZ[1_445]	2.11	0.09
1:L:682:ASN:C	1:O:209:ASN:ND2[1_556]	2.14	0.06
1:B:659:ARG:NH1	1:M:213:LYS:CE[1_455]	2.15	0.05
1:E:197:LYS:NZ	1:J:694:TYR:CZ[1_544]	2.16	0.04
1:K:213:LYS:NZ	1:O:659:ARG:NH1[1_656]	2.16	0.04
1:B:650:GLU:OE2	1:L:176:PRO:CG[1_455]	2.17	0.03

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	A	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	B	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	C	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	D	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	E	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	F	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	G	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	H	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	I	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	J	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	K	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	L	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	M	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
1	O	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	11
All	All	7658/7868 (97%)	5628 (74%)	1498 (20%)	532 (7%)	1	11

All (532) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	198	ASN
1	A	337	SER
1	A	341	ALA
1	A	397	LYS
1	A	424	GLN
1	B	198	ASN
1	B	337	SER
1	B	341	ALA
1	B	397	LYS
1	B	424	GLN
1	C	198	ASN
1	C	337	SER
1	C	341	ALA
1	C	397	LYS
1	C	411	TYR
1	C	424	GLN
1	D	198	ASN

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Mol	Chain	Res	Type
1	D	337	SER
1	D	341	ALA
1	D	397	LYS
1	D	424	GLN
1	E	198	ASN
1	E	337	SER
1	E	341	ALA
1	E	397	LYS
1	E	424	GLN
1	F	198	ASN
1	F	337	SER
1	F	341	ALA
1	F	397	LYS
1	F	424	GLN
1	G	198	ASN
1	G	337	SER
1	G	341	ALA
1	G	397	LYS
1	G	424	GLN
1	H	198	ASN
1	H	337	SER
1	H	341	ALA
1	H	397	LYS
1	H	424	GLN
1	I	198	ASN
1	I	337	SER
1	I	341	ALA
1	I	397	LYS
1	I	424	GLN
1	J	198	ASN
1	J	337	SER
1	J	341	ALA
1	J	397	LYS
1	J	424	GLN
1	K	198	ASN
1	K	337	SER
1	K	341	ALA
1	K	397	LYS
1	K	424	GLN
1	L	198	ASN
1	L	337	SER
1	L	341	ALA

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Mol	Chain	Res	Type
1	L	397	LYS
1	L	411	TYR
1	L	424	GLN
1	M	198	ASN
1	M	337	SER
1	M	341	ALA
1	M	397	LYS
1	M	424	GLN
1	O	198	ASN
1	O	337	SER
1	O	341	ALA
1	O	397	LYS
1	O	424	GLN
1	A	197	LYS
1	A	216	LEU
1	A	230	SER
1	A	311	ALA
1	A	327	SER
1	A	354	THR
1	A	370	GLY
1	A	411	TYR
1	A	414	LYS
1	A	464	PHE
1	A	536	PRO
1	A	570	ASN
1	B	197	LYS
1	B	216	LEU
1	B	230	SER
1	B	311	ALA
1	B	327	SER
1	B	354	THR
1	B	370	GLY
1	B	411	TYR
1	B	414	LYS
1	B	464	PHE
1	B	536	PRO
1	B	570	ASN
1	C	197	LYS
1	C	216	LEU
1	C	230	SER
1	C	311	ALA
1	C	327	SER

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Mol	Chain	Res	Type
1	C	354	THR
1	C	370	GLY
1	C	414	LYS
1	C	464	PHE
1	C	536	PRO
1	C	570	ASN
1	D	197	LYS
1	D	216	LEU
1	D	230	SER
1	D	311	ALA
1	D	327	SER
1	D	354	THR
1	D	370	GLY
1	D	411	TYR
1	D	414	LYS
1	D	464	PHE
1	D	536	PRO
1	D	570	ASN
1	E	197	LYS
1	E	216	LEU
1	E	230	SER
1	E	311	ALA
1	E	327	SER
1	E	354	THR
1	E	370	GLY
1	E	411	TYR
1	E	414	LYS
1	E	464	PHE
1	E	536	PRO
1	E	570	ASN
1	F	197	LYS
1	F	216	LEU
1	F	230	SER
1	F	311	ALA
1	F	327	SER
1	F	354	THR
1	F	370	GLY
1	F	411	TYR
1	F	414	LYS
1	F	464	PHE
1	F	536	PRO
1	F	570	ASN

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Mol	Chain	Res	Type
1	G	197	LYS
1	G	216	LEU
1	G	230	SER
1	G	311	ALA
1	G	327	SER
1	G	354	THR
1	G	370	GLY
1	G	411	TYR
1	G	414	LYS
1	G	464	PHE
1	G	536	PRO
1	G	570	ASN
1	H	197	LYS
1	H	216	LEU
1	H	230	SER
1	H	311	ALA
1	H	327	SER
1	H	354	THR
1	H	370	GLY
1	H	411	TYR
1	H	414	LYS
1	H	464	PHE
1	H	536	PRO
1	H	570	ASN
1	I	197	LYS
1	I	216	LEU
1	I	230	SER
1	I	311	ALA
1	I	327	SER
1	I	354	THR
1	I	370	GLY
1	I	411	TYR
1	I	414	LYS
1	I	464	PHE
1	I	536	PRO
1	I	570	ASN
1	J	197	LYS
1	J	216	LEU
1	J	230	SER
1	J	311	ALA
1	J	327	SER
1	J	354	THR

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Mol	Chain	Res	Type
1	J	370	GLY
1	J	411	TYR
1	J	414	LYS
1	J	464	PHE
1	J	536	PRO
1	J	570	ASN
1	K	197	LYS
1	K	216	LEU
1	K	230	SER
1	K	311	ALA
1	K	327	SER
1	K	354	THR
1	K	370	GLY
1	K	411	TYR
1	K	414	LYS
1	K	464	PHE
1	K	536	PRO
1	K	570	ASN
1	L	197	LYS
1	L	216	LEU
1	L	230	SER
1	L	311	ALA
1	L	327	SER
1	L	354	THR
1	L	370	GLY
1	L	414	LYS
1	L	464	PHE
1	L	536	PRO
1	L	570	ASN
1	M	197	LYS
1	M	216	LEU
1	M	230	SER
1	M	311	ALA
1	M	327	SER
1	M	354	THR
1	M	370	GLY
1	M	411	TYR
1	M	414	LYS
1	M	464	PHE
1	M	536	PRO
1	M	570	ASN
1	O	197	LYS

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Mol	Chain	Res	Type
1	O	216	LEU
1	O	230	SER
1	O	311	ALA
1	O	327	SER
1	O	354	THR
1	O	370	GLY
1	O	411	TYR
1	O	414	LYS
1	O	464	PHE
1	O	536	PRO
1	O	570	ASN
1	A	209	ASN
1	A	399	ASN
1	A	413	SER
1	A	713	ASN
1	B	209	ASN
1	B	399	ASN
1	B	413	SER
1	B	713	ASN
1	C	209	ASN
1	C	399	ASN
1	C	413	SER
1	C	713	ASN
1	D	209	ASN
1	D	399	ASN
1	D	413	SER
1	D	713	ASN
1	E	209	ASN
1	E	399	ASN
1	E	413	SER
1	E	713	ASN
1	F	209	ASN
1	F	399	ASN
1	F	413	SER
1	F	713	ASN
1	G	209	ASN
1	G	399	ASN
1	G	413	SER
1	G	713	ASN
1	H	209	ASN
1	H	399	ASN
1	H	413	SER

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Mol	Chain	Res	Type
1	H	713	ASN
1	I	209	ASN
1	I	399	ASN
1	I	413	SER
1	I	713	ASN
1	J	209	ASN
1	J	399	ASN
1	J	413	SER
1	J	713	ASN
1	K	209	ASN
1	K	399	ASN
1	K	413	SER
1	K	713	ASN
1	L	209	ASN
1	L	399	ASN
1	L	413	SER
1	L	713	ASN
1	M	209	ASN
1	M	399	ASN
1	M	413	SER
1	M	713	ASN
1	O	209	ASN
1	O	399	ASN
1	O	413	SER
1	O	713	ASN
1	A	232	PRO
1	A	431	PRO
1	A	465	GLU
1	A	561	ASN
1	A	610	SER
1	A	664	ASN
1	B	232	PRO
1	B	431	PRO
1	B	465	GLU
1	B	561	ASN
1	B	610	SER
1	B	664	ASN
1	C	232	PRO
1	C	431	PRO
1	C	465	GLU
1	C	561	ASN
1	C	610	SER

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Mol	Chain	Res	Type
1	C	664	ASN
1	D	232	PRO
1	D	431	PRO
1	D	465	GLU
1	D	561	ASN
1	D	610	SER
1	D	664	ASN
1	E	232	PRO
1	E	431	PRO
1	E	465	GLU
1	E	561	ASN
1	E	610	SER
1	E	664	ASN
1	F	232	PRO
1	F	431	PRO
1	F	465	GLU
1	F	561	ASN
1	F	610	SER
1	F	664	ASN
1	G	232	PRO
1	G	343	GLU
1	G	431	PRO
1	G	465	GLU
1	G	561	ASN
1	G	610	SER
1	G	664	ASN
1	H	232	PRO
1	H	431	PRO
1	H	465	GLU
1	H	561	ASN
1	H	610	SER
1	H	664	ASN
1	I	232	PRO
1	I	431	PRO
1	I	465	GLU
1	I	561	ASN
1	I	610	SER
1	I	664	ASN
1	J	232	PRO
1	J	431	PRO
1	J	465	GLU
1	J	561	ASN

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Mol	Chain	Res	Type
1	J	610	SER
1	J	664	ASN
1	K	232	PRO
1	K	431	PRO
1	K	465	GLU
1	K	561	ASN
1	K	610	SER
1	K	664	ASN
1	L	232	PRO
1	L	431	PRO
1	L	465	GLU
1	L	561	ASN
1	L	610	SER
1	L	664	ASN
1	M	232	PRO
1	M	431	PRO
1	M	465	GLU
1	M	561	ASN
1	M	610	SER
1	M	664	ASN
1	O	232	PRO
1	O	431	PRO
1	O	465	GLU
1	O	561	ASN
1	O	610	SER
1	O	664	ASN
1	A	303	VAL
1	A	304	HIS
1	A	343	GLU
1	A	345	THR
1	A	376	ASN
1	A	684	LYS
1	A	692	PRO
1	B	303	VAL
1	B	304	HIS
1	B	343	GLU
1	B	345	THR
1	B	376	ASN
1	B	684	LYS
1	B	692	PRO
1	C	303	VAL
1	C	304	HIS

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Mol	Chain	Res	Type
1	C	343	GLU
1	C	345	THR
1	C	376	ASN
1	C	684	LYS
1	C	692	PRO
1	D	303	VAL
1	D	304	HIS
1	D	343	GLU
1	D	345	THR
1	D	376	ASN
1	D	684	LYS
1	D	692	PRO
1	E	303	VAL
1	E	304	HIS
1	E	343	GLU
1	E	345	THR
1	E	376	ASN
1	E	684	LYS
1	E	692	PRO
1	F	303	VAL
1	F	304	HIS
1	F	343	GLU
1	F	345	THR
1	F	376	ASN
1	F	684	LYS
1	F	692	PRO
1	G	303	VAL
1	G	304	HIS
1	G	345	THR
1	G	376	ASN
1	G	684	LYS
1	G	692	PRO
1	H	303	VAL
1	H	304	HIS
1	H	343	GLU
1	H	345	THR
1	H	376	ASN
1	H	684	LYS
1	H	692	PRO
1	I	303	VAL
1	I	304	HIS
1	I	343	GLU

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Mol	Chain	Res	Type
1	I	345	THR
1	I	376	ASN
1	I	684	LYS
1	I	692	PRO
1	J	303	VAL
1	J	304	HIS
1	J	343	GLU
1	J	345	THR
1	J	376	ASN
1	J	684	LYS
1	J	692	PRO
1	K	303	VAL
1	K	304	HIS
1	K	343	GLU
1	K	345	THR
1	K	376	ASN
1	K	684	LYS
1	K	692	PRO
1	L	303	VAL
1	L	304	HIS
1	L	343	GLU
1	L	345	THR
1	L	376	ASN
1	L	684	LYS
1	L	692	PRO
1	M	303	VAL
1	M	304	HIS
1	M	343	GLU
1	M	345	THR
1	M	376	ASN
1	M	684	LYS
1	M	692	PRO
1	O	303	VAL
1	O	304	HIS
1	O	343	GLU
1	O	345	THR
1	O	376	ASN
1	O	684	LYS
1	O	692	PRO
1	A	320	VAL
1	B	320	VAL
1	C	320	VAL

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Mol	Chain	Res	Type
1	D	320	VAL
1	E	320	VAL
1	F	320	VAL
1	G	320	VAL
1	H	320	VAL
1	I	320	VAL
1	J	320	VAL
1	K	320	VAL
1	L	320	VAL
1	M	320	VAL
1	O	320	VAL
1	A	577	VAL
1	A	651	GLY
1	B	577	VAL
1	B	651	GLY
1	C	577	VAL
1	C	651	GLY
1	D	577	VAL
1	D	651	GLY
1	E	577	VAL
1	E	651	GLY
1	F	577	VAL
1	F	651	GLY
1	G	577	VAL
1	G	651	GLY
1	H	577	VAL
1	H	651	GLY
1	I	651	GLY
1	J	577	VAL
1	J	651	GLY
1	K	577	VAL
1	K	651	GLY
1	L	577	VAL
1	L	651	GLY
1	M	577	VAL
1	M	651	GLY
1	O	577	VAL
1	O	651	GLY
1	A	532	GLY
1	B	532	GLY
1	C	532	GLY
1	D	532	GLY

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Mol	Chain	Res	Type
1	E	532	GLY
1	F	532	GLY
1	G	532	GLY
1	H	532	GLY
1	I	532	GLY
1	I	577	VAL
1	J	532	GLY
1	K	532	GLY
1	L	532	GLY
1	M	532	GLY
1	O	532	GLY

5.3.2 Protein sidechains ⓘ

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	A	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	B	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	C	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	D	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	E	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	F	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	G	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	H	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	I	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	J	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	K	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	L	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	M	492/501 (98%)	476 (97%)	16 (3%)	33	58
1	O	492/501 (98%)	476 (97%)	16 (3%)	33	58
All	All	6888/7014 (98%)	6664 (97%)	224 (3%)	33	58

All (224) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	252	ARG
1	A	259	TYR
1	A	331	THR
1	A	369	THR
1	A	378	LEU
1	A	394	ILE
1	A	403	GLN
1	A	476	ASN
1	A	481	LEU
1	A	515	GLU
1	A	553	ASN
1	A	596	PHE
1	A	600	ARG
1	A	605	VAL
1	A	629	LEU
1	A	708	ILE
1	B	252	ARG
1	B	259	TYR
1	B	331	THR
1	B	369	THR
1	B	378	LEU
1	B	394	ILE
1	B	403	GLN
1	B	476	ASN
1	B	481	LEU
1	B	515	GLU
1	B	553	ASN
1	B	596	PHE
1	B	600	ARG
1	B	605	VAL
1	B	629	LEU
1	B	708	ILE
1	C	252	ARG
1	C	259	TYR
1	C	331	THR
1	C	369	THR
1	C	378	LEU
1	C	394	ILE
1	C	403	GLN
1	C	476	ASN
1	C	481	LEU
1	C	515	GLU

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Mol	Chain	Res	Type
1	C	553	ASN
1	C	596	PHE
1	C	600	ARG
1	C	605	VAL
1	C	629	LEU
1	C	708	ILE
1	D	252	ARG
1	D	259	TYR
1	D	331	THR
1	D	369	THR
1	D	378	LEU
1	D	394	ILE
1	D	403	GLN
1	D	476	ASN
1	D	481	LEU
1	D	515	GLU
1	D	553	ASN
1	D	596	PHE
1	D	600	ARG
1	D	605	VAL
1	D	629	LEU
1	D	708	ILE
1	E	252	ARG
1	E	259	TYR
1	E	331	THR
1	E	369	THR
1	E	378	LEU
1	E	394	ILE
1	E	403	GLN
1	E	476	ASN
1	E	481	LEU
1	E	515	GLU
1	E	553	ASN
1	E	596	PHE
1	E	600	ARG
1	E	605	VAL
1	E	629	LEU
1	E	708	ILE
1	F	252	ARG
1	F	259	TYR
1	F	331	THR
1	F	369	THR

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Mol	Chain	Res	Type
1	F	378	LEU
1	F	394	ILE
1	F	403	GLN
1	F	476	ASN
1	F	481	LEU
1	F	515	GLU
1	F	553	ASN
1	F	596	PHE
1	F	600	ARG
1	F	605	VAL
1	F	629	LEU
1	F	708	ILE
1	G	252	ARG
1	G	259	TYR
1	G	331	THR
1	G	369	THR
1	G	378	LEU
1	G	394	ILE
1	G	403	GLN
1	G	476	ASN
1	G	481	LEU
1	G	515	GLU
1	G	553	ASN
1	G	596	PHE
1	G	600	ARG
1	G	605	VAL
1	G	629	LEU
1	G	708	ILE
1	H	252	ARG
1	H	259	TYR
1	H	331	THR
1	H	369	THR
1	H	378	LEU
1	H	394	ILE
1	H	403	GLN
1	H	476	ASN
1	H	481	LEU
1	H	515	GLU
1	H	553	ASN
1	H	596	PHE
1	H	600	ARG
1	H	605	VAL

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Mol	Chain	Res	Type
1	H	629	LEU
1	H	708	ILE
1	I	252	ARG
1	I	259	TYR
1	I	331	THR
1	I	369	THR
1	I	378	LEU
1	I	394	ILE
1	I	403	GLN
1	I	476	ASN
1	I	481	LEU
1	I	515	GLU
1	I	553	ASN
1	I	596	PHE
1	I	600	ARG
1	I	605	VAL
1	I	629	LEU
1	I	708	ILE
1	J	252	ARG
1	J	259	TYR
1	J	331	THR
1	J	369	THR
1	J	378	LEU
1	J	394	ILE
1	J	403	GLN
1	J	476	ASN
1	J	481	LEU
1	J	515	GLU
1	J	553	ASN
1	J	596	PHE
1	J	600	ARG
1	J	605	VAL
1	J	629	LEU
1	J	708	ILE
1	K	252	ARG
1	K	259	TYR
1	K	331	THR
1	K	369	THR
1	K	378	LEU
1	K	394	ILE
1	K	403	GLN
1	K	476	ASN

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Mol	Chain	Res	Type
1	K	481	LEU
1	K	515	GLU
1	K	553	ASN
1	K	596	PHE
1	K	600	ARG
1	K	605	VAL
1	K	629	LEU
1	K	708	ILE
1	L	252	ARG
1	L	259	TYR
1	L	331	THR
1	L	369	THR
1	L	378	LEU
1	L	394	ILE
1	L	403	GLN
1	L	476	ASN
1	L	481	LEU
1	L	515	GLU
1	L	553	ASN
1	L	596	PHE
1	L	600	ARG
1	L	605	VAL
1	L	629	LEU
1	L	708	ILE
1	M	252	ARG
1	M	259	TYR
1	M	331	THR
1	M	369	THR
1	M	378	LEU
1	M	394	ILE
1	M	403	GLN
1	M	476	ASN
1	M	481	LEU
1	M	515	GLU
1	M	553	ASN
1	M	596	PHE
1	M	600	ARG
1	M	605	VAL
1	M	629	LEU
1	M	708	ILE
1	O	252	ARG
1	O	259	TYR

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Mol	Chain	Res	Type
1	O	331	THR
1	O	369	THR
1	O	378	LEU
1	O	394	ILE
1	O	403	GLN
1	O	476	ASN
1	O	481	LEU
1	O	515	GLU
1	O	553	ASN
1	O	596	PHE
1	O	600	ARG
1	O	605	VAL
1	O	629	LEU
1	O	708	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (325) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	211	HIS
1	A	263	HIS
1	A	328	ASN
1	A	361	ASN
1	A	368	ASN
1	A	403	GLN
1	A	415	ASN
1	A	422	ASN
1	A	437	ASN
1	A	447	GLN
1	A	458	ASN
1	A	463	ASN
1	A	483	GLN
1	A	537	ASN
1	A	539	ASN
1	A	541	GLN
1	A	543	GLN
1	A	561	ASN
1	A	584	ASN
1	A	588	ASN
1	A	601	ASN
1	A	664	ASN
1	A	670	GLN
1	A	693	ASN

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Mol	Chain	Res	Type
1	B	211	HIS
1	B	263	HIS
1	B	328	ASN
1	B	353	ASN
1	B	361	ASN
1	B	368	ASN
1	B	403	GLN
1	B	422	ASN
1	B	437	ASN
1	B	447	GLN
1	B	458	ASN
1	B	463	ASN
1	B	483	GLN
1	B	537	ASN
1	B	539	ASN
1	B	541	GLN
1	B	543	GLN
1	B	561	ASN
1	B	584	ASN
1	B	588	ASN
1	B	601	ASN
1	B	664	ASN
1	B	670	GLN
1	B	693	ASN
1	C	211	HIS
1	C	246	ASN
1	C	263	HIS
1	C	328	ASN
1	C	361	ASN
1	C	368	ASN
1	C	403	GLN
1	C	415	ASN
1	C	422	ASN
1	C	437	ASN
1	C	447	GLN
1	C	458	ASN
1	C	463	ASN
1	C	483	GLN
1	C	537	ASN
1	C	539	ASN
1	C	541	GLN
1	C	543	GLN

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Mol	Chain	Res	Type
1	C	584	ASN
1	C	588	ASN
1	C	601	ASN
1	C	664	ASN
1	C	693	ASN
1	D	211	HIS
1	D	263	HIS
1	D	328	ASN
1	D	361	ASN
1	D	368	ASN
1	D	403	GLN
1	D	422	ASN
1	D	437	ASN
1	D	447	GLN
1	D	458	ASN
1	D	463	ASN
1	D	483	GLN
1	D	537	ASN
1	D	539	ASN
1	D	541	GLN
1	D	543	GLN
1	D	561	ASN
1	D	584	ASN
1	D	588	ASN
1	D	601	ASN
1	D	664	ASN
1	D	693	ASN
1	E	211	HIS
1	E	246	ASN
1	E	263	HIS
1	E	328	ASN
1	E	353	ASN
1	E	361	ASN
1	E	368	ASN
1	E	403	GLN
1	E	422	ASN
1	E	437	ASN
1	E	447	GLN
1	E	458	ASN
1	E	463	ASN
1	E	483	GLN
1	E	537	ASN

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Mol	Chain	Res	Type
1	E	539	ASN
1	E	541	GLN
1	E	543	GLN
1	E	584	ASN
1	E	588	ASN
1	E	601	ASN
1	E	664	ASN
1	E	670	GLN
1	E	693	ASN
1	F	211	HIS
1	F	263	HIS
1	F	328	ASN
1	F	353	ASN
1	F	361	ASN
1	F	363	ASN
1	F	368	ASN
1	F	403	GLN
1	F	415	ASN
1	F	422	ASN
1	F	437	ASN
1	F	447	GLN
1	F	458	ASN
1	F	463	ASN
1	F	483	GLN
1	F	537	ASN
1	F	539	ASN
1	F	541	GLN
1	F	543	GLN
1	F	561	ASN
1	F	584	ASN
1	F	588	ASN
1	F	601	ASN
1	F	664	ASN
1	F	693	ASN
1	G	211	HIS
1	G	263	HIS
1	G	328	ASN
1	G	361	ASN
1	G	368	ASN
1	G	403	GLN
1	G	415	ASN
1	G	422	ASN

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Mol	Chain	Res	Type
1	G	437	ASN
1	G	447	GLN
1	G	458	ASN
1	G	463	ASN
1	G	483	GLN
1	G	537	ASN
1	G	539	ASN
1	G	541	GLN
1	G	543	GLN
1	G	561	ASN
1	G	584	ASN
1	G	588	ASN
1	G	601	ASN
1	G	664	ASN
1	G	693	ASN
1	H	211	HIS
1	H	328	ASN
1	H	361	ASN
1	H	368	ASN
1	H	403	GLN
1	H	415	ASN
1	H	422	ASN
1	H	437	ASN
1	H	447	GLN
1	H	458	ASN
1	H	463	ASN
1	H	483	GLN
1	H	537	ASN
1	H	539	ASN
1	H	541	GLN
1	H	543	GLN
1	H	584	ASN
1	H	588	ASN
1	H	601	ASN
1	H	664	ASN
1	H	670	GLN
1	H	693	ASN
1	I	211	HIS
1	I	328	ASN
1	I	361	ASN
1	I	368	ASN
1	I	403	GLN

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Mol	Chain	Res	Type
1	I	415	ASN
1	I	422	ASN
1	I	437	ASN
1	I	447	GLN
1	I	458	ASN
1	I	463	ASN
1	I	483	GLN
1	I	537	ASN
1	I	539	ASN
1	I	541	GLN
1	I	543	GLN
1	I	584	ASN
1	I	588	ASN
1	I	601	ASN
1	I	664	ASN
1	I	693	ASN
1	J	211	HIS
1	J	263	HIS
1	J	328	ASN
1	J	353	ASN
1	J	361	ASN
1	J	368	ASN
1	J	403	GLN
1	J	422	ASN
1	J	437	ASN
1	J	447	GLN
1	J	458	ASN
1	J	463	ASN
1	J	483	GLN
1	J	537	ASN
1	J	539	ASN
1	J	541	GLN
1	J	543	GLN
1	J	561	ASN
1	J	584	ASN
1	J	588	ASN
1	J	601	ASN
1	J	664	ASN
1	J	693	ASN
1	K	211	HIS
1	K	246	ASN
1	K	263	HIS

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Mol	Chain	Res	Type
1	K	285	GLN
1	K	328	ASN
1	K	361	ASN
1	K	368	ASN
1	K	403	GLN
1	K	415	ASN
1	K	422	ASN
1	K	437	ASN
1	K	447	GLN
1	K	458	ASN
1	K	463	ASN
1	K	483	GLN
1	K	537	ASN
1	K	539	ASN
1	K	541	GLN
1	K	543	GLN
1	K	561	ASN
1	K	584	ASN
1	K	588	ASN
1	K	601	ASN
1	K	664	ASN
1	K	693	ASN
1	L	211	HIS
1	L	263	HIS
1	L	328	ASN
1	L	353	ASN
1	L	361	ASN
1	L	368	ASN
1	L	403	GLN
1	L	415	ASN
1	L	422	ASN
1	L	437	ASN
1	L	447	GLN
1	L	458	ASN
1	L	463	ASN
1	L	483	GLN
1	L	537	ASN
1	L	539	ASN
1	L	541	GLN
1	L	543	GLN
1	L	561	ASN
1	L	584	ASN

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Mol	Chain	Res	Type
1	L	588	ASN
1	L	601	ASN
1	L	664	ASN
1	L	693	ASN
1	M	211	HIS
1	M	246	ASN
1	M	263	HIS
1	M	328	ASN
1	M	361	ASN
1	M	368	ASN
1	M	403	GLN
1	M	415	ASN
1	M	422	ASN
1	M	437	ASN
1	M	447	GLN
1	M	458	ASN
1	M	463	ASN
1	M	483	GLN
1	M	537	ASN
1	M	539	ASN
1	M	541	GLN
1	M	543	GLN
1	M	584	ASN
1	M	588	ASN
1	M	601	ASN
1	M	664	ASN
1	M	693	ASN
1	O	211	HIS
1	O	263	HIS
1	O	328	ASN
1	O	361	ASN
1	O	368	ASN
1	O	403	GLN
1	O	422	ASN
1	O	437	ASN
1	O	447	GLN
1	O	458	ASN
1	O	463	ASN
1	O	483	GLN
1	O	537	ASN
1	O	539	ASN
1	O	541	GLN

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Mol	Chain	Res	Type
1	O	543	GLN
1	O	561	ASN
1	O	584	ASN
1	O	588	ASN
1	O	601	ASN
1	O	664	ASN
1	O	693	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 28 ligands modelled in this entry, 28 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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, 95th 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	A	553/562 (98%)	0.93	66 (11%) 9 8	6, 90, 194, 205	0
1	B	553/562 (98%)	1.72	205 (37%) 1 1	6, 90, 194, 205	0
1	C	553/562 (98%)	1.08	100 (18%) 3 4	6, 90, 194, 205	0
1	D	553/562 (98%)	1.87	222 (40%) 0 1	6, 90, 194, 205	0
1	E	553/562 (98%)	1.00	75 (13%) 7 6	6, 90, 194, 205	0
1	F	553/562 (98%)	1.00	70 (12%) 8 7	6, 90, 194, 205	0
1	G	553/562 (98%)	1.16	98 (17%) 4 4	6, 90, 194, 205	0
1	H	553/562 (98%)	1.22	113 (20%) 3 3	6, 90, 194, 205	0
1	I	553/562 (98%)	1.29	125 (22%) 2 2	6, 90, 194, 205	0
1	J	553/562 (98%)	1.23	115 (20%) 2 3	6, 90, 194, 205	0
1	K	553/562 (98%)	1.13	103 (18%) 3 4	6, 90, 194, 205	0
1	L	553/562 (98%)	1.19	122 (22%) 2 2	6, 90, 194, 205	0
1	M	553/562 (98%)	1.06	93 (16%) 4 5	6, 90, 194, 205	0
1	O	553/562 (98%)	1.33	128 (23%) 2 2	6, 90, 194, 205	0
All	All	7742/7868 (98%)	1.23	1635 (21%) 2 3	6, 90, 194, 205	0

All (1635) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	688	TYR	8.5
1	D	683	ASP	7.9
1	D	322	ALA	7.7
1	H	209	ASN	7.5
1	B	322	ALA	7.2
1	D	399	ASN	7.1
1	I	696	VAL	6.6
1	D	422	ASN	6.5

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Mol	Chain	Res	Type	RSRZ
1	M	681	TYR	6.4
1	D	348	GLU	6.4
1	D	344	ARG	6.2
1	D	715	ASP	6.2
1	O	425	ASP	6.2
1	D	551	ASP	6.1
1	B	666	SER	6.0
1	B	688	TYR	6.0
1	L	664	ASN	6.0
1	D	728	SER	5.9
1	D	666	SER	5.8
1	G	311	ALA	5.8
1	J	307	ALA	5.8
1	B	715	ASP	5.8
1	D	675	PHE	5.8
1	B	683	ASP	5.7
1	D	424	GLN	5.7
1	L	425	ASP	5.7
1	M	209	ASN	5.6
1	B	630	ASN	5.6
1	D	682	ASN	5.6
1	D	727	PHE	5.6
1	M	202	PHE	5.6
1	B	681	TYR	5.6
1	B	682	ASN	5.5
1	J	322	ALA	5.5
1	L	319	SER	5.5
1	D	687	LEU	5.5
1	I	681	TYR	5.4
1	B	675	PHE	5.4
1	A	307	ALA	5.4
1	B	730	LYS	5.3
1	D	343	GLU	5.3
1	D	337	SER	5.3
1	B	691	ASN	5.3
1	J	319	SER	5.3
1	B	725	LEU	5.3
1	M	644	VAL	5.3
1	C	424	GLN	5.3
1	B	693	ASN	5.3
1	B	348	GLU	5.2
1	H	317	GLY	5.2

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Mol	Chain	Res	Type	RSRZ
1	L	424	GLN	5.2
1	D	677	ASP	5.2
1	K	696	VAL	5.2
1	B	733	GLU	5.2
1	D	667	SER	5.2
1	O	275	GLU	5.2
1	G	333	ALA	5.1
1	C	319	SER	5.1
1	H	322	ALA	5.1
1	B	337	SER	5.1
1	F	666	SER	5.1
1	O	725	LEU	5.0
1	M	656	ILE	5.0
1	D	732	TYR	5.0
1	O	311	ALA	5.0
1	C	316	ILE	4.9
1	I	656	ILE	4.9
1	O	322	ALA	4.9
1	B	732	TYR	4.9
1	D	681	TYR	4.9
1	O	319	SER	4.9
1	G	696	VAL	4.9
1	K	322	ALA	4.8
1	F	424	GLN	4.8
1	B	355	ALA	4.8
1	F	309	VAL	4.8
1	B	664	ASN	4.8
1	K	209	ASN	4.8
1	D	335	ASP	4.8
1	I	318	GLY	4.8
1	I	644	VAL	4.8
1	O	348	GLU	4.8
1	J	688	TYR	4.8
1	J	320	VAL	4.8
1	B	341	ALA	4.7
1	D	648	ASP	4.7
1	B	536	PRO	4.7
1	L	317	GLY	4.7
1	M	701	VAL	4.7
1	L	662	MET	4.7
1	B	654	GLU	4.7
1	B	400	GLN	4.7

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Mol	Chain	Res	Type	RSRZ
1	I	698	VAL	4.7
1	O	323	GLY	4.7
1	B	422	ASN	4.7
1	J	664	ASN	4.7
1	D	621	ASN	4.7
1	B	692	PRO	4.6
1	D	352	LEU	4.6
1	A	309	VAL	4.6
1	F	307	ALA	4.6
1	G	433	THR	4.6
1	B	684	LYS	4.6
1	K	437	ASN	4.6
1	B	720	GLY	4.6
1	D	577	VAL	4.5
1	G	604	ALA	4.5
1	H	424	GLN	4.5
1	E	336	HIS	4.5
1	D	725	LEU	4.5
1	M	350	MET	4.5
1	C	309	VAL	4.5
1	O	691	ASN	4.5
1	D	689	ILE	4.5
1	H	319	SER	4.4
1	A	317	GLY	4.4
1	C	307	ALA	4.4
1	I	631	ILE	4.4
1	K	687	LEU	4.4
1	B	346	TRP	4.4
1	D	729	LYS	4.4
1	O	424	GLN	4.4
1	D	288	THR	4.4
1	C	343	GLU	4.4
1	I	675	PHE	4.4
1	A	311	ALA	4.4
1	B	551	ASP	4.4
1	H	720	GLY	4.4
1	D	607	ALA	4.3
1	A	424	GLN	4.3
1	K	644	VAL	4.3
1	O	688	TYR	4.3
1	I	604	ALA	4.3
1	E	335	ASP	4.3

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Mol	Chain	Res	Type	RSRZ
1	H	464	PHE	4.3
1	O	730	LYS	4.3
1	F	687	LEU	4.3
1	B	709	ASN	4.3
1	J	720	GLY	4.3
1	D	610	SER	4.3
1	D	360	LEU	4.3
1	D	644	VAL	4.3
1	D	660	TYR	4.3
1	B	685	LEU	4.2
1	B	677	ASP	4.2
1	H	683	ASP	4.2
1	O	732	TYR	4.2
1	B	294	SER	4.2
1	I	319	SER	4.2
1	B	285	GLN	4.2
1	H	496	LYS	4.2
1	B	689	ILE	4.2
1	B	425	ASP	4.2
1	B	284	SER	4.2
1	H	294	SER	4.2
1	K	424	GLN	4.2
1	D	630	ASN	4.2
1	D	664	ASN	4.2
1	O	675	PHE	4.2
1	D	649	THR	4.2
1	D	423	ALA	4.2
1	O	422	ASN	4.1
1	D	658	ASP	4.1
1	D	679	LYS	4.1
1	O	628	LEU	4.1
1	B	283	ASP	4.1
1	O	335	ASP	4.1
1	B	650	GLU	4.1
1	I	443	GLU	4.1
1	J	317	GLY	4.1
1	B	344	ARG	4.1
1	C	311	ALA	4.1
1	D	608	ASP	4.1
1	K	309	VAL	4.1
1	B	710	PRO	4.1
1	I	643	ILE	4.1

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Mol	Chain	Res	Type	RSRZ
1	G	677	ASP	4.0
1	B	694	TYR	4.0
1	C	312	SER	4.0
1	D	693	ASN	4.0
1	D	358	ALA	4.0
1	H	474	GLY	4.0
1	H	274	ASN	4.0
1	M	666	SER	4.0
1	B	628	LEU	4.0
1	H	688	TYR	4.0
1	B	620	ILE	4.0
1	D	294	SER	4.0
1	B	658	ASP	4.0
1	D	694	TYR	4.0
1	B	727	PHE	3.9
1	D	720	GLY	3.9
1	O	551	ASP	3.9
1	L	536	PRO	3.9
1	E	693	ASN	3.9
1	J	719	ASN	3.9
1	D	680	LYS	3.9
1	E	715	ASP	3.9
1	O	622	SER	3.9
1	D	342	GLY	3.9
1	B	631	ILE	3.9
1	D	669	ARG	3.9
1	K	727	PHE	3.9
1	O	301	SER	3.9
1	M	333	ALA	3.9
1	K	726	ILE	3.9
1	G	605	VAL	3.9
1	B	656	ILE	3.8
1	H	202	PHE	3.8
1	D	361	ASN	3.8
1	J	424	GLN	3.8
1	B	660	TYR	3.8
1	D	650	GLU	3.8
1	O	693	ASN	3.8
1	H	715	ASP	3.8
1	B	672	GLY	3.8
1	D	659	ARG	3.8
1	K	656	ILE	3.8

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Mol	Chain	Res	Type	RSRZ
1	A	422	ASN	3.8
1	J	689	ILE	3.8
1	D	579	ASP	3.8
1	G	619	VAL	3.8
1	O	680	LYS	3.8
1	E	681	TYR	3.8
1	O	619	VAL	3.8
1	D	662	MET	3.7
1	D	474	GLY	3.7
1	E	615	ALA	3.7
1	B	433	THR	3.7
1	J	309	VAL	3.7
1	B	662	MET	3.7
1	D	355	ALA	3.7
1	H	348	GLU	3.7
1	B	321	SER	3.7
1	B	424	GLN	3.7
1	J	610	SER	3.7
1	D	341	ALA	3.7
1	I	307	ALA	3.7
1	H	535	GLU	3.7
1	G	675	PHE	3.7
1	H	648	ASP	3.7
1	J	725	LEU	3.7
1	D	437	ASN	3.6
1	K	317	GLY	3.6
1	D	496	LYS	3.6
1	E	424	GLN	3.6
1	D	645	GLU	3.6
1	L	308	GLU	3.6
1	F	677	ASP	3.6
1	O	677	ASP	3.6
1	B	336	HIS	3.6
1	D	317	GLY	3.6
1	A	399	ASN	3.6
1	C	308	GLU	3.6
1	K	715	ASP	3.6
1	L	715	ASP	3.6
1	O	286	THR	3.6
1	E	209	ASN	3.6
1	C	725	LEU	3.6
1	I	629	LEU	3.6

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Mol	Chain	Res	Type	RSRZ
1	D	346	TRP	3.6
1	D	311	ALA	3.6
1	G	425	ASP	3.6
1	G	731	GLY	3.6
1	K	698	VAL	3.6
1	D	646	ILE	3.6
1	D	730	LYS	3.6
1	C	313	PHE	3.6
1	C	318	GLY	3.6
1	I	336	HIS	3.6
1	H	697	ASN	3.6
1	L	422	ASN	3.6
1	D	350	MET	3.6
1	G	681	TYR	3.6
1	A	496	LYS	3.6
1	L	398	GLU	3.6
1	O	650	GLU	3.6
1	O	288	THR	3.6
1	B	610	SER	3.6
1	B	723	LYS	3.5
1	B	659	ARG	3.5
1	J	310	HIS	3.5
1	B	729	LYS	3.5
1	B	359	ARG	3.5
1	E	660	TYR	3.5
1	I	628	LEU	3.5
1	O	694	TYR	3.5
1	D	735	GLY	3.5
1	B	690	SER	3.5
1	G	656	ILE	3.5
1	D	597	HIS	3.5
1	D	657	ASN	3.5
1	D	661	ASP	3.5
1	C	314	PHE	3.5
1	D	359	ARG	3.5
1	I	311	ALA	3.5
1	K	346	TRP	3.5
1	B	288	THR	3.5
1	B	680	LYS	3.5
1	D	440	LEU	3.5
1	J	630	ASN	3.5
1	O	653	LYS	3.5

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Mol	Chain	Res	Type	RSRZ
1	O	666	SER	3.5
1	M	424	GLN	3.5
1	O	630	ASN	3.5
1	I	677	ASP	3.5
1	A	316	ILE	3.5
1	B	667	SER	3.5
1	B	340	LEU	3.5
1	D	324	PHE	3.5
1	J	437	ASN	3.5
1	O	681	TYR	3.4
1	D	685	LEU	3.4
1	C	624	THR	3.4
1	D	433	THR	3.4
1	D	710	PRO	3.4
1	O	656	ILE	3.4
1	E	687	LEU	3.4
1	B	679	LYS	3.4
1	E	322	ALA	3.4
1	J	311	ALA	3.4
1	L	648	ASP	3.4
1	A	674	THR	3.4
1	B	649	THR	3.4
1	D	624	THR	3.4
1	H	359	ARG	3.4
1	J	340	LEU	3.4
1	O	687	LEU	3.4
1	G	341	ALA	3.4
1	D	272	SER	3.4
1	D	654	GLU	3.4
1	B	661	ASP	3.4
1	C	496	LYS	3.4
1	L	294	SER	3.4
1	O	631	ILE	3.4
1	D	536	PRO	3.4
1	B	268	ASN	3.4
1	O	324	PHE	3.4
1	D	708	ILE	3.3
1	D	726	ILE	3.3
1	E	551	ASP	3.3
1	J	425	ASP	3.3
1	A	693	ASN	3.3
1	B	274	ASN	3.3

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Mol	Chain	Res	Type	RSRZ
1	B	499	ASN	3.3
1	D	539	ASN	3.3
1	K	681	TYR	3.3
1	C	687	LEU	3.3
1	D	430	THR	3.3
1	C	315	ASP	3.3
1	I	607	ALA	3.3
1	D	723	LYS	3.3
1	L	320	VAL	3.3
1	C	666	SER	3.3
1	D	620	ILE	3.3
1	O	641	GLY	3.3
1	I	674	THR	3.3
1	K	343	GLU	3.3
1	G	723	LYS	3.3
1	J	273	LYS	3.3
1	J	294	SER	3.3
1	A	725	LEU	3.3
1	D	697	ASN	3.3
1	H	725	LEU	3.3
1	O	316	ILE	3.3
1	D	634	ASP	3.3
1	D	665	ILE	3.3
1	E	178	ARG	3.3
1	H	631	ILE	3.3
1	K	440	LEU	3.3
1	O	620	ILE	3.3
1	B	621	ASN	3.3
1	B	342	GLY	3.3
1	H	568	GLU	3.3
1	I	726	ILE	3.3
1	L	307	ALA	3.3
1	D	690	SER	3.3
1	G	309	VAL	3.3
1	G	644	VAL	3.3
1	I	305	GLY	3.3
1	K	731	GLY	3.3
1	B	390	THR	3.3
1	I	436	TYR	3.3
1	L	430	THR	3.3
1	B	613	LYS	3.3
1	H	618	GLU	3.3

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Mol	Chain	Res	Type	RSRZ
1	O	629	LEU	3.2
1	D	339	SER	3.2
1	D	692	PRO	3.2
1	I	346	TRP	3.2
1	L	318	GLY	3.2
1	L	714	GLY	3.2
1	O	672	GLY	3.2
1	K	202	PHE	3.2
1	F	322	ALA	3.2
1	D	698	VAL	3.2
1	M	677	ASP	3.2
1	A	318	GLY	3.2
1	C	650	GLU	3.2
1	L	727	PHE	3.2
1	M	678	PHE	3.2
1	O	600	ARG	3.2
1	D	336	HIS	3.2
1	A	696	VAL	3.2
1	D	701	VAL	3.2
1	M	696	VAL	3.2
1	E	496	LYS	3.2
1	A	714	GLY	3.2
1	B	498	LEU	3.2
1	B	629	LEU	3.2
1	D	714	GLY	3.2
1	H	399	ASN	3.2
1	L	474	GLY	3.2
1	H	620	ILE	3.2
1	H	694	TYR	3.2
1	J	631	ILE	3.2
1	J	398	GLU	3.2
1	B	333	ALA	3.2
1	E	350	MET	3.2
1	H	310	HIS	3.2
1	I	377	VAL	3.2
1	M	496	LYS	3.2
1	M	703	LYS	3.2
1	J	338	LEU	3.2
1	B	665	ILE	3.2
1	D	292	ASN	3.2
1	E	675	PHE	3.2
1	I	657	ASN	3.2

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Mol	Chain	Res	Type	RSRZ
1	J	288	THR	3.2
1	K	643	ILE	3.2
1	O	300	THR	3.2
1	A	343	GLU	3.2
1	B	343	GLU	3.2
1	F	311	ALA	3.2
1	I	392	ALA	3.2
1	E	319	SER	3.2
1	M	175	VAL	3.2
1	G	687	LEU	3.2
1	D	656	ILE	3.2
1	E	464	PHE	3.2
1	B	356	ASP	3.2
1	J	677	ASP	3.2
1	O	648	ASP	3.2
1	J	308	GLU	3.2
1	K	730	LYS	3.2
1	A	567	ALA	3.2
1	C	610	SER	3.2
1	I	309	VAL	3.2
1	L	322	ALA	3.2
1	L	339	SER	3.2
1	L	428	SER	3.2
1	O	667	SER	3.2
1	D	628	LEU	3.2
1	A	314	PHE	3.1
1	J	346	TRP	3.1
1	B	657	ASN	3.1
1	H	273	LYS	3.1
1	I	699	TYR	3.1
1	L	729	LYS	3.1
1	G	443	GLU	3.1
1	B	311	ALA	3.1
1	B	640	SER	3.1
1	J	341	ALA	3.1
1	E	359	ARG	3.1
1	D	716	THR	3.1
1	L	621	ASN	3.1
1	O	621	ASN	3.1
1	I	720	GLY	3.1
1	L	730	LYS	3.1
1	F	725	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
1	L	573	ASN	3.1
1	C	694	TYR	3.1
1	C	732	TYR	3.1
1	G	694	TYR	3.1
1	H	311	ALA	3.1
1	O	607	ALA	3.1
1	B	671	ASP	3.1
1	B	653	LYS	3.1
1	D	273	LYS	3.1
1	C	310	HIS	3.1
1	L	352	LEU	3.1
1	G	330	SER	3.1
1	L	688	TYR	3.1
1	I	316	ILE	3.1
1	L	464	PHE	3.1
1	D	703	LYS	3.1
1	J	715	ASP	3.1
1	O	683	ASP	3.1
1	C	657	ASN	3.1
1	G	607	ALA	3.1
1	H	208	SER	3.1
1	H	309	VAL	3.1
1	H	664	ASN	3.1
1	J	355	ALA	3.1
1	K	175	VAL	3.1
1	B	324	PHE	3.1
1	F	324	PHE	3.1
1	C	730	LYS	3.1
1	E	680	LYS	3.1
1	D	617	ARG	3.1
1	C	731	GLY	3.1
1	J	400	GLN	3.0
1	A	312	SER	3.0
1	C	734	ILE	3.0
1	J	690	SER	3.0
1	M	319	SER	3.0
1	D	573	ASN	3.0
1	I	602	ASN	3.0
1	K	422	ASN	3.0
1	L	539	ASN	3.0
1	A	348	GLU	3.0
1	G	398	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
1	L	343	GLU	3.0
1	E	662	MET	3.0
1	B	687	LEU	3.0
1	J	683	ASP	3.0
1	C	474	GLY	3.0
1	D	345	THR	3.0
1	B	701	VAL	3.0
1	I	329	SER	3.0
1	A	313	PHE	3.0
1	A	680	LYS	3.0
1	D	291	LYS	3.0
1	D	372	ALA	3.0
1	J	675	PHE	3.0
1	K	729	LYS	3.0
1	D	190	GLU	3.0
1	I	440	LEU	3.0
1	B	497	ASP	3.0
1	B	608	ASP	3.0
1	B	286	THR	3.0
1	H	210	ILE	3.0
1	A	730	LYS	3.0
1	B	655	VAL	3.0
1	F	675	PHE	3.0
1	G	329	SER	3.0
1	O	696	VAL	3.0
1	D	333	ALA	3.0
1	H	681	TYR	3.0
1	I	687	LEU	3.0
1	L	693	ASN	3.0
1	L	535	GLU	3.0
1	L	720	GLY	3.0
1	I	545	LYS	3.0
1	D	283	ASP	3.0
1	O	624	THR	3.0
1	B	350	MET	3.0
1	B	358	ALA	3.0
1	E	358	ALA	3.0
1	D	436	TYR	3.0
1	O	664	ASN	3.0
1	D	270	ILE	3.0
1	D	631	ILE	3.0
1	H	680	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
1	M	273	LYS	3.0
1	M	695	LYS	3.0
1	I	554	PHE	3.0
1	A	610	SER	3.0
1	C	696	VAL	3.0
1	D	652	LEU	3.0
1	D	600	ARG	3.0
1	O	359	ARG	3.0
1	A	657	ASN	3.0
1	D	209	ASN	3.0
1	C	729	LYS	3.0
1	A	319	SER	3.0
1	B	300	THR	3.0
1	B	338	LEU	3.0
1	C	690	SER	3.0
1	H	666	SER	3.0
1	L	333	ALA	3.0
1	I	306	ASN	2.9
1	B	419	ILE	2.9
1	E	343	GLU	2.9
1	C	675	PHE	2.9
1	O	727	PHE	2.9
1	I	284	SER	2.9
1	C	322	ALA	2.9
1	B	335	ASP	2.9
1	D	425	ASP	2.9
1	H	608	ASP	2.9
1	L	335	ASP	2.9
1	B	646	ILE	2.9
1	E	613	LYS	2.9
1	K	695	LYS	2.9
1	A	306	ASN	2.9
1	H	713	ASN	2.9
1	J	209	ASN	2.9
1	A	308	GLU	2.9
1	D	338	LEU	2.9
1	O	202	PHE	2.9
1	B	669	ARG	2.9
1	L	468	ARG	2.9
1	M	318	GLY	2.9
1	D	289	ILE	2.9
1	D	709	ASN	2.9

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Mol	Chain	Res	Type	RSRZ
1	M	464	PHE	2.9
1	B	728	SER	2.9
1	D	303	VAL	2.9
1	B	624	THR	2.9
1	J	496	LYS	2.9
1	D	734	ILE	2.9
1	H	646	ILE	2.9
1	E	694	TYR	2.9
1	J	551	ASP	2.9
1	C	664	ASN	2.9
1	D	268	ASN	2.9
1	G	657	ASN	2.9
1	J	539	ASN	2.9
1	D	696	VAL	2.9
1	J	672	GLY	2.9
1	K	284	SER	2.9
1	B	496	LYS	2.9
1	C	213	LYS	2.9
1	G	446	LYS	2.9
1	L	288	THR	2.9
1	I	322	ALA	2.9
1	I	708	ILE	2.9
1	D	699	TYR	2.9
1	B	597	HIS	2.9
1	D	472	ASP	2.9
1	G	308	GLU	2.9
1	I	425	ASP	2.9
1	J	343	GLU	2.9
1	J	654	GLU	2.9
1	J	658	ASP	2.9
1	K	178	ARG	2.9
1	O	654	GLU	2.9
1	E	611	VAL	2.9
1	G	424	GLN	2.9
1	G	680	LYS	2.9
1	L	402	SER	2.9
1	I	670	GLN	2.9
1	D	638	ILE	2.9
1	O	604	ALA	2.9
1	H	685	LEU	2.9
1	K	628	LEU	2.9
1	G	178	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
1	J	681	TYR	2.9
1	O	699	TYR	2.9
1	J	657	ASN	2.9
1	M	645	GLU	2.9
1	O	274	ASN	2.9
1	D	329	SER	2.8
1	I	424	GLN	2.8
1	O	544	GLY	2.8
1	G	631	ILE	2.8
1	L	646	ILE	2.8
1	C	423	ALA	2.8
1	O	567	ALA	2.8
1	J	662	MET	2.8
1	J	468	ARG	2.8
1	I	496	LYS	2.8
1	M	710	PRO	2.8
1	B	698	VAL	2.8
1	D	549	GLU	2.8
1	D	611	VAL	2.8
1	I	308	GLU	2.8
1	J	621	ASN	2.8
1	K	320	VAL	2.8
1	L	696	VAL	2.8
1	M	302	GLU	2.8
1	D	707	ILE	2.8
1	H	425	ASP	2.8
1	E	333	ALA	2.8
1	L	346	TRP	2.8
1	B	703	LYS	2.8
1	D	200	ARG	2.8
1	J	732	TYR	2.8
1	D	629	LEU	2.8
1	E	321	SER	2.8
1	E	696	VAL	2.8
1	H	654	GLU	2.8
1	I	646	ILE	2.8
1	J	312	SER	2.8
1	F	422	ASN	2.8
1	L	654	GLU	2.8
1	K	597	HIS	2.8
1	D	671	ASP	2.8
1	F	315	ASP	2.8

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Mol	Chain	Res	Type	RSRZ
1	K	677	ASP	2.8
1	M	174	THR	2.8
1	J	464	PHE	2.8
1	K	675	PHE	2.8
1	L	675	PHE	2.8
1	J	684	LYS	2.8
1	B	352	LEU	2.8
1	D	413	SER	2.8
1	D	428	SER	2.8
1	E	732	TYR	2.8
1	F	732	TYR	2.8
1	K	289	ILE	2.8
1	K	623	SER	2.8
1	M	284	SER	2.8
1	C	561	ASN	2.8
1	F	317	GLY	2.8
1	F	343	GLU	2.8
1	O	467	GLY	2.8
1	B	674	THR	2.8
1	F	624	THR	2.8
1	C	551	ASP	2.8
1	B	440	LEU	2.8
1	G	652	LEU	2.8
1	L	685	LEU	2.8
1	M	566	LEU	2.8
1	B	708	ILE	2.8
1	B	325	SER	2.8
1	E	309	VAL	2.8
1	O	536	PRO	2.8
1	M	694	TYR	2.8
1	C	630	ASN	2.8
1	I	409	ASN	2.8
1	L	682	ASN	2.8
1	L	697	ASN	2.8
1	M	670	GLN	2.8
1	A	607	ALA	2.8
1	A	727	PHE	2.8
1	H	607	ALA	2.8
1	I	417	ALA	2.8
1	I	310	HIS	2.8
1	B	648	ASP	2.8
1	G	316	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	G	284	SER	2.8
1	K	455	VAL	2.8
1	B	651	GLY	2.8
1	B	328	ASN	2.8
1	D	267	GLU	2.8
1	E	400	GLN	2.8
1	H	479	GLU	2.8
1	B	615	ALA	2.8
1	D	392	ALA	2.8
1	G	613	LYS	2.8
1	H	570	ASN	2.8
1	J	607	ALA	2.8
1	O	682	ASN	2.8
1	L	649	THR	2.8
1	D	178	ARG	2.7
1	D	655	VAL	2.7
1	D	670	GLN	2.7
1	D	398	GLU	2.7
1	D	731	GLY	2.7
1	L	389	GLN	2.7
1	B	326	ASN	2.7
1	F	615	ALA	2.7
1	H	621	ASN	2.7
1	K	423	ALA	2.7
1	O	433	THR	2.7
1	D	498	LEU	2.7
1	H	689	ILE	2.7
1	G	301	SER	2.7
1	D	684	LYS	2.7
1	B	557	GLN	2.7
1	B	699	TYR	2.7
1	I	400	GLN	2.7
1	B	391	LEU	2.7
1	F	443	GLU	2.7
1	K	307	ALA	2.7
1	K	669	ARG	2.7
1	G	646	ILE	2.7
1	G	730	LYS	2.7
1	J	206	TRP	2.7
1	B	314	PHE	2.7
1	E	536	PRO	2.7
1	L	710	PRO	2.7

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Mol	Chain	Res	Type	RSRZ
1	D	627	LEU	2.7
1	D	663	LEU	2.7
1	D	534	ASN	2.7
1	E	399	ASN	2.7
1	A	284	SER	2.7
1	G	662	MET	2.7
1	L	273	LYS	2.7
1	L	684	LYS	2.7
1	A	675	PHE	2.7
1	K	666	SER	2.7
1	G	701	VAL	2.7
1	D	686	PRO	2.7
1	L	628	LEU	2.7
1	G	318	GLY	2.7
1	I	398	GLU	2.7
1	L	348	GLU	2.7
1	M	433	THR	2.7
1	O	535	GLU	2.7
1	D	584	ASN	2.7
1	L	657	ASN	2.7
1	K	684	LYS	2.7
1	B	312	SER	2.7
1	G	314	PHE	2.7
1	K	271	LEU	2.7
1	H	226	TRP	2.7
1	I	359	ARG	2.7
1	O	608	ASP	2.7
1	B	641	GLY	2.7
1	H	358	ALA	2.7
1	H	656	ILE	2.7
1	J	423	ALA	2.7
1	M	311	ALA	2.7
1	C	718	THR	2.7
1	C	680	LYS	2.7
1	F	399	ASN	2.7
1	F	693	ASN	2.7
1	G	719	ASN	2.7
1	M	422	ASN	2.7
1	F	319	SER	2.7
1	I	339	SER	2.7
1	I	623	SER	2.7
1	C	317	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	D	410	TYR	2.6
1	I	694	TYR	2.6
1	L	694	TYR	2.6
1	M	549	GLU	2.6
1	G	464	PHE	2.6
1	J	685	LEU	2.6
1	O	352	LEU	2.6
1	B	711	SER	2.6
1	M	428	SER	2.6
1	K	701	VAL	2.6
1	L	289	ILE	2.6
1	C	556	GLN	2.6
1	E	700	ALA	2.6
1	B	673	LYS	2.6
1	I	680	LYS	2.6
1	K	714	GLY	2.6
1	H	660	TYR	2.6
1	B	625	GLU	2.6
1	O	662	MET	2.6
1	D	435	ASN	2.6
1	F	202	PHE	2.6
1	J	391	LEU	2.6
1	H	422	ASN	2.6
1	J	321	SER	2.6
1	K	402	SER	2.6
1	J	377	VAL	2.6
1	B	636	ARG	2.6
1	I	620	ILE	2.6
1	O	597	HIS	2.6
1	D	414	LYS	2.6
1	H	703	LYS	2.6
1	K	703	LYS	2.6
1	H	641	GLY	2.6
1	I	333	ALA	2.6
1	K	341	ALA	2.6
1	O	346	TRP	2.6
1	A	627	LEU	2.6
1	E	649	THR	2.6
1	K	174	THR	2.6
1	A	324	PHE	2.6
1	C	425	ASP	2.6
1	G	661	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
1	D	535	GLU	2.6
1	C	428	SER	2.6
1	I	728	SER	2.6
1	L	610	SER	2.6
1	D	419	ILE	2.6
1	G	359	ARG	2.6
1	I	734	ILE	2.6
1	C	703	LYS	2.6
1	E	218	LYS	2.6
1	G	291	LYS	2.6
1	A	536	PRO	2.6
1	B	423	ALA	2.6
1	K	433	THR	2.6
1	F	308	GLU	2.6
1	L	658	ASP	2.6
1	L	677	ASP	2.6
1	J	246	ASN	2.6
1	M	643	ILE	2.6
1	B	670	GLN	2.6
1	C	341	ALA	2.6
1	F	464	PHE	2.6
1	B	357	THR	2.6
1	B	308	GLU	2.6
1	B	721	ILE	2.6
1	L	712	GLU	2.6
1	C	337	SER	2.6
1	I	453	ASP	2.6
1	K	428	SER	2.6
1	B	611	VAL	2.6
1	F	306	ASN	2.6
1	H	605	VAL	2.6
1	K	719	ASN	2.6
1	L	355	ALA	2.6
1	B	714	GLY	2.6
1	G	324	PHE	2.6
1	B	707	ILE	2.5
1	D	411	TYR	2.5
1	K	689	ILE	2.5
1	A	666	SER	2.5
1	B	319	SER	2.5
1	C	348	GLU	2.5
1	H	213	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	I	321	SER	2.5
1	J	568	GLU	2.5
1	B	644	VAL	2.5
1	M	320	VAL	2.5
1	M	698	VAL	2.5
1	A	664	ASN	2.5
1	H	682	ASN	2.5
1	B	567	ALA	2.5
1	D	347	ALA	2.5
1	G	606	GLY	2.5
1	G	620	ILE	2.5
1	G	689	ILE	2.5
1	K	288	THR	2.5
1	L	681	TYR	2.5
1	O	273	LYS	2.5
1	O	723	LYS	2.5
1	F	669	ARG	2.5
1	H	346	TRP	2.5
1	B	619	VAL	2.5
1	E	196	VAL	2.5
1	J	348	GLU	2.5
1	O	549	GLU	2.5
1	I	685	LEU	2.5
1	K	340	LEU	2.5
1	G	451	ASP	2.5
1	B	604	ALA	2.5
1	L	358	ALA	2.5
1	C	305	GLY	2.5
1	D	672	GLY	2.5
1	E	720	GLY	2.5
1	J	289	ILE	2.5
1	A	433	THR	2.5
1	H	649	THR	2.5
1	L	174	THR	2.5
1	A	699	TYR	2.5
1	B	339	SER	2.5
1	D	312	SER	2.5
1	L	728	SER	2.5
1	D	340	LEU	2.5
1	K	566	LEU	2.5
1	K	685	LEU	2.5
1	H	292	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
1	K	657	ASN	2.5
1	L	709	ASN	2.5
1	C	202	PHE	2.5
1	G	313	PHE	2.5
1	L	683	ASP	2.5
1	A	556	GLN	2.5
1	H	341	ALA	2.5
1	H	403	GLN	2.5
1	I	446	LYS	2.5
1	J	656	ILE	2.5
1	H	390	THR	2.5
1	I	345	THR	2.5
1	B	204	SER	2.5
1	D	668	LEU	2.5
1	H	687	LEU	2.5
1	L	310	HIS	2.5
1	L	666	SER	2.5
1	B	190	GLU	2.5
1	B	441	GLU	2.5
1	B	618	GLU	2.5
1	C	350	MET	2.5
1	B	292	ASN	2.5
1	D	388	ASN	2.5
1	H	363	ASN	2.5
1	D	356	ASP	2.5
1	E	730	LYS	2.5
1	H	335	ASP	2.5
1	I	613	LYS	2.5
1	M	270	ILE	2.5
1	O	444	LYS	2.5
1	O	700	ALA	2.5
1	E	641	GLY	2.5
1	A	340	LEU	2.5
1	O	337	SER	2.5
1	A	655	VAL	2.5
1	G	310	HIS	2.5
1	K	436	TYR	2.5
1	M	611	VAL	2.5
1	M	612	VAL	2.5
1	F	618	GLU	2.5
1	H	190	GLU	2.5
1	H	630	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
1	L	180	ASN	2.5
1	J	358	ALA	2.5
1	L	400	GLN	2.5
1	J	536	PRO	2.5
1	C	359	ARG	2.5
1	C	600	ARG	2.5
1	C	714	GLY	2.5
1	G	735	GLY	2.5
1	I	715	ASP	2.5
1	J	284	SER	2.5
1	L	272	SER	2.5
1	L	690	SER	2.5
1	H	699	TYR	2.5
1	C	464	PHE	2.4
1	C	597	HIS	2.4
1	F	730	LYS	2.4
1	M	346	TRP	2.4
1	C	422	ASN	2.4
1	C	693	ASN	2.4
1	F	700	ALA	2.4
1	K	333	ALA	2.4
1	M	307	ALA	2.4
1	M	363	ASN	2.4
1	O	341	ALA	2.4
1	I	340	LEU	2.4
1	L	627	LEU	2.4
1	M	687	LEU	2.4
1	E	735	GLY	2.4
1	G	317	GLY	2.4
1	I	641	GLY	2.4
1	B	290	SER	2.4
1	H	662	MET	2.4
1	D	613	LYS	2.4
1	H	675	PHE	2.4
1	H	727	PHE	2.4
1	A	310	HIS	2.4
1	A	656	ILE	2.4
1	C	656	ILE	2.4
1	M	210	ILE	2.4
1	C	358	ALA	2.4
1	C	388	ASN	2.4
1	D	307	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
1	H	657	ASN	2.4
1	K	604	ALA	2.4
1	L	652	LEU	2.4
1	D	328	ASN	2.4
1	O	709	ASN	2.4
1	L	692	PRO	2.4
1	C	294	SER	2.4
1	F	335	ASP	2.4
1	F	425	ASP	2.4
1	J	300	THR	2.4
1	L	337	SER	2.4
1	C	644	VAL	2.4
1	C	723	LYS	2.4
1	D	314	PHE	2.4
1	D	673	LYS	2.4
1	H	175	VAL	2.4
1	L	309	VAL	2.4
1	M	605	VAL	2.4
1	O	496	LYS	2.4
1	B	542	TYR	2.4
1	J	436	TYR	2.4
1	F	629	LEU	2.4
1	G	360	LEU	2.4
1	A	423	ALA	2.4
1	B	600	ARG	2.4
1	H	307	ALA	2.4
1	M	400	GLN	2.4
1	O	669	ARG	2.4
1	J	353	ASN	2.4
1	D	305	GLY	2.4
1	O	720	GLY	2.4
1	I	291	LYS	2.4
1	I	666	SER	2.4
1	M	291	LYS	2.4
1	O	690	SER	2.4
1	O	313	PHE	2.4
1	G	453	ASP	2.4
1	G	289	ILE	2.4
1	K	660	TYR	2.4
1	B	224	GLU	2.4
1	D	733	GLU	2.4
1	C	306	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
1	J	328	ASN	2.4
1	C	720	GLY	2.4
1	D	641	GLY	2.4
1	D	653	LYS	2.4
1	G	474	GLY	2.4
1	O	692	PRO	2.4
1	B	296	SER	2.4
1	C	402	SER	2.4
1	F	475	SER	2.4
1	H	622	SER	2.4
1	H	690	SER	2.4
1	I	730	LYS	2.4
1	M	321	SER	2.4
1	O	294	SER	2.4
1	E	612	VAL	2.4
1	H	433	THR	2.4
1	I	288	THR	2.4
1	H	207	ILE	2.4
1	F	283	ASP	2.4
1	G	265	ASP	2.4
1	G	335	ASP	2.4
1	M	608	ASP	2.4
1	O	658	ASP	2.4
1	B	436	TYR	2.4
1	O	436	TYR	2.4
1	D	275	GLU	2.4
1	C	557	GLN	2.4
1	M	336	HIS	2.4
1	A	199	LYS	2.4
1	H	594	LYS	2.4
1	B	731	GLY	2.4
1	C	682	ASN	2.4
1	D	602	ASN	2.4
1	G	306	ASN	2.4
1	I	474	GLY	2.4
1	L	388	ASN	2.4
1	O	399	ASN	2.4
1	H	284	SER	2.4
1	I	324	PHE	2.4
1	B	627	LEU	2.4
1	G	724	ILE	2.4
1	H	288	THR	2.4

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Mol	Chain	Res	Type	RSRZ
1	H	624	THR	2.4
1	I	320	VAL	2.4
1	I	450	LEU	2.4
1	L	620	ILE	2.4
1	M	384	VAL	2.4
1	E	425	ASP	2.4
1	E	661	ASP	2.4
1	F	235	ASP	2.4
1	I	608	ASP	2.4
1	D	604	ALA	2.4
1	M	322	ALA	2.4
1	M	647	GLU	2.4
1	O	333	ALA	2.4
1	C	673	LYS	2.4
1	A	428	SER	2.3
1	B	573	ASN	2.3
1	D	691	ASN	2.3
1	E	727	PHE	2.3
1	I	464	PHE	2.3
1	J	176	PRO	2.3
1	K	363	ASN	2.3
1	L	313	PHE	2.3
1	L	537	ASN	2.3
1	M	646	ILE	2.3
1	O	339	SER	2.3
1	O	499	ASN	2.3
1	A	646	ILE	2.3
1	B	726	ILE	2.3
1	O	689	ILE	2.3
1	K	674	THR	2.3
1	A	315	ASP	2.3
1	G	315	ASP	2.3
1	I	315	ASP	2.3
1	K	723	LYS	2.3
1	B	565	GLN	2.3
1	F	465	GLU	2.3
1	H	647	GLU	2.3
1	L	549	GLU	2.3
1	E	340	LEU	2.3
1	F	314	PHE	2.3
1	A	474	GLY	2.3
1	F	340	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	F	536	PRO	2.3
1	F	731	GLY	2.3
1	I	360	LEU	2.3
1	I	419	ILE	2.3
1	H	537	ASN	2.3
1	J	342	GLY	2.3
1	F	698	VAL	2.3
1	G	455	VAL	2.3
1	K	345	THR	2.3
1	O	644	VAL	2.3
1	O	649	THR	2.3
1	H	470	ARG	2.3
1	L	178	ARG	2.3
1	C	613	LYS	2.3
1	D	545	LYS	2.3
1	G	699	TYR	2.3
1	B	347	ALA	2.3
1	C	604	ALA	2.3
1	D	441	GLU	2.3
1	E	593	ASP	2.3
1	I	451	ASP	2.3
1	J	608	ASP	2.3
1	M	425	ASP	2.3
1	B	668	LEU	2.3
1	C	324	PHE	2.3
1	I	596	PHE	2.3
1	K	316	ILE	2.3
1	A	720	GLY	2.3
1	G	337	SER	2.3
1	H	342	GLY	2.3
1	K	310	HIS	2.3
1	D	353	ASN	2.3
1	H	306	ASN	2.3
1	K	409	ASN	2.3
1	B	716	THR	2.3
1	D	197	LYS	2.3
1	J	197	LYS	2.3
1	G	660	TYR	2.3
1	L	660	TYR	2.3
1	H	627	LEU	2.3
1	O	417	ALA	2.3
1	O	440	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	267	GLU	2.3
1	K	547	ILE	2.3
1	O	661	ASP	2.3
1	A	467	GLY	2.3
1	H	651	GLY	2.3
1	G	698	VAL	2.3
1	I	611	VAL	2.3
1	I	619	VAL	2.3
1	D	274	ASN	2.3
1	F	674	THR	2.3
1	G	702	THR	2.3
1	J	286	THR	2.3
1	J	390	THR	2.3
1	L	353	ASN	2.3
1	M	682	ASN	2.3
1	C	446	LYS	2.3
1	D	226	TRP	2.3
1	E	273	LYS	2.3
1	I	350	MET	2.3
1	M	600	ARG	2.3
1	I	663	LEU	2.3
1	K	421	LEU	2.3
1	C	681	TYR	2.3
1	C	727	PHE	2.3
1	E	202	PHE	2.3
1	E	726	ILE	2.3
1	I	727	PHE	2.3
1	J	333	ALA	2.3
1	J	708	ILE	2.3
1	L	732	TYR	2.3
1	O	355	ALA	2.3
1	B	645	GLU	2.3
1	C	618	GLU	2.3
1	J	479	GLU	2.3
1	J	733	GLU	2.3
1	A	294	SER	2.3
1	D	284	SER	2.3
1	H	301	SER	2.3
1	O	715	ASP	2.3
1	D	320	VAL	2.3
1	M	309	VAL	2.3
1	O	291	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	624	THR	2.3
1	B	178	ARG	2.3
1	K	180	ASN	2.3
1	K	624	THR	2.3
1	L	630	ASN	2.3
1	M	470	ARG	2.3
1	K	668	LEU	2.3
1	M	352	LEU	2.3
1	M	627	LEU	2.3
1	O	498	LEU	2.3
1	F	727	PHE	2.3
1	L	726	ILE	2.3
1	A	694	TYR	2.3
1	B	410	TYR	2.3
1	M	604	ALA	2.3
1	B	622	SER	2.3
1	O	343	GLU	2.3
1	O	645	GLU	2.3
1	B	446	LYS	2.3
1	H	619	VAL	2.3
1	L	723	LYS	2.3
1	O	320	VAL	2.3
1	J	283	ASP	2.3
1	L	283	ASP	2.3
1	A	198	ASN	2.2
1	A	300	THR	2.2
1	D	718	THR	2.2
1	E	422	ASN	2.2
1	H	597	HIS	2.2
1	I	697	ASN	2.2
1	K	299	HIS	2.2
1	G	340	LEU	2.2
1	J	316	ILE	2.2
1	B	389	GLN	2.2
1	B	623	SER	2.2
1	D	633	LYS	2.2
1	H	729	LYS	2.2
1	J	730	LYS	2.2
1	K	446	LYS	2.2
1	B	535	GLU	2.2
1	C	712	GLU	2.2
1	E	600	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	359	ARG	2.2
1	F	474	GLY	2.2
1	L	344	ARG	2.2
1	E	498	LEU	2.2
1	E	725	LEU	2.2
1	I	442	LEU	2.2
1	L	338	LEU	2.2
1	M	551	ASP	2.2
1	O	578	LEU	2.2
1	D	415	ASN	2.2
1	D	570	ASN	2.2
1	J	573	ASN	2.2
1	J	705	ASN	2.2
1	O	553	ASN	2.2
1	O	554	PHE	2.2
1	C	607	ALA	2.2
1	K	607	ALA	2.2
1	D	447	GLN	2.2
1	D	556	GLN	2.2
1	D	637	LYS	2.2
1	D	301	SER	2.2
1	F	694	TYR	2.2
1	L	414	LYS	2.2
1	L	496	LYS	2.2
1	I	272	SER	2.2
1	J	337	SER	2.2
1	A	384	VAL	2.2
1	B	297	ARG	2.2
1	B	696	VAL	2.2
1	F	701	VAL	2.2
1	H	696	VAL	2.2
1	K	612	VAL	2.2
1	K	655	VAL	2.2
1	A	628	LEU	2.2
1	F	652	LEU	2.2
1	G	629	LEU	2.2
1	I	661	ASP	2.2
1	I	707	ILE	2.2
1	B	722	LYS	2.2
1	A	541	GLN	2.2
1	G	670	GLN	2.2
1	A	732	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
1	I	428	SER	2.2
1	D	271	LEU	2.2
1	D	287	ARG	2.2
1	C	398	GLU	2.2
1	D	619	VAL	2.2
1	B	293	THR	2.2
1	E	354	THR	2.2
1	I	649	THR	2.2
1	L	300	THR	2.2
1	L	734	ILE	2.2
1	O	390	THR	2.2
1	I	202	PHE	2.2
1	K	324	PHE	2.2
1	M	324	PHE	2.2
1	B	634	ASP	2.2
1	E	677	ASP	2.2
1	I	630	ASN	2.2
1	J	268	ASN	2.2
1	L	209	ASN	2.2
1	M	709	ASN	2.2
1	D	362	ALA	2.2
1	D	541	GLN	2.2
1	A	687	LEU	2.2
1	E	301	SER	2.2
1	G	344	ARG	2.2
1	G	725	LEU	2.2
1	G	728	SER	2.2
1	H	296	SER	2.2
1	H	321	SER	2.2
1	J	556	GLN	2.2
1	K	321	SER	2.2
1	M	667	SER	2.2
1	I	660	TYR	2.2
1	J	660	TYR	2.2
1	K	359	ARG	2.2
1	B	735	GLY	2.2
1	J	651	GLY	2.2
1	O	190	GLU	2.2
1	O	651	GLY	2.2
1	B	432	ILE	2.2
1	C	210	ILE	2.2
1	E	316	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
1	G	734	ILE	2.2
1	K	603	ILE	2.2
1	M	649	THR	2.2
1	B	545	LYS	2.2
1	B	695	LYS	2.2
1	D	695	LYS	2.2
1	J	729	LYS	2.2
1	B	399	ASN	2.2
1	H	705	ASN	2.2
1	K	335	ASP	2.2
1	M	685	LEU	2.2
1	M	669	ARG	2.2
1	D	309	VAL	2.2
1	A	731	GLY	2.2
1	B	431	PRO	2.2
1	E	731	GLY	2.2
1	K	210	ILE	2.2
1	L	656	ILE	2.2
1	D	446	LYS	2.2
1	G	545	LYS	2.2
1	J	718	THR	2.2
1	L	286	THR	2.2
1	G	358	ALA	2.1
1	K	360	LEU	2.2
1	O	668	LEU	2.2
1	A	690	SER	2.1
1	C	356	ASP	2.1
1	D	296	SER	2.1
1	G	365	ARG	2.1
1	G	666	SER	2.1
1	H	669	ARG	2.1
1	J	339	SER	2.1
1	K	670	GLN	2.1
1	O	290	SER	2.1
1	B	289	ILE	2.1
1	G	611	VAL	2.1
1	I	598	TYR	2.1
1	O	734	ILE	2.1
1	B	323	GLY	2.1
1	I	317	GLY	2.1
1	F	568	GLU	2.1
1	K	267	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	M	343	GLU	2.1
1	O	479	GLU	2.1
1	C	352	LEU	2.1
1	D	434	MET	2.1
1	L	566	LEU	2.1
1	L	725	LEU	2.1
1	B	539	ASN	2.1
1	G	328	ASN	2.1
1	K	347	ALA	2.1
1	L	423	ALA	2.1
1	L	584	ASN	2.1
1	E	659	ARG	2.1
1	C	616	HIS	2.1
1	D	389	GLN	2.1
1	F	389	GLN	2.1
1	J	661	ASP	2.1
1	L	597	HIS	2.1
1	M	597	HIS	2.1
1	A	708	ILE	2.1
1	E	701	VAL	2.1
1	F	696	VAL	2.1
1	G	707	ILE	2.1
1	H	320	VAL	2.1
1	O	207	ILE	2.1
1	E	653	LYS	2.1
1	F	199	LYS	2.1
1	H	545	LYS	2.1
1	I	550	PHE	2.1
1	I	703	LYS	2.1
1	L	695	LYS	2.1
1	B	686	PRO	2.1
1	H	714	GLY	2.1
1	L	342	GLY	2.1
1	M	714	GLY	2.1
1	H	302	GLU	2.1
1	O	398	GLU	2.1
1	D	331	THR	2.1
1	B	652	LEU	2.1
1	C	440	LEU	2.1
1	C	659	ARG	2.1
1	D	713	ASN	2.1
1	H	423	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	J	422	ASN	2.1
1	M	365	ARG	2.1
1	C	475	SER	2.1
1	D	717	SER	2.1
1	E	622	SER	2.1
1	O	428	SER	2.1
1	C	689	ILE	2.1
1	C	633	LYS	2.1
1	D	497	ASP	2.1
1	G	727	PHE	2.1
1	H	197	LYS	2.1
1	H	377	VAL	2.1
1	I	384	VAL	2.1
1	J	703	LYS	2.1
1	K	616	HIS	2.1
1	L	661	ASP	2.1
1	L	703	LYS	2.1
1	K	688	TYR	2.1
1	K	699	TYR	2.1
1	C	672	GLY	2.1
1	H	735	GLY	2.1
1	K	318	GLY	2.1
1	I	343	GLU	2.1
1	L	340	LEU	2.1
1	M	479	GLU	2.1
1	I	433	THR	2.1
1	I	548	THR	2.1
1	J	174	THR	2.1
1	I	365	ARG	2.1
1	G	307	ALA	2.1
1	B	534	ASN	2.1
1	B	724	ILE	2.1
1	C	363	ASN	2.1
1	F	646	ILE	2.1
1	F	657	ASN	2.1
1	I	399	ASN	2.1
1	J	682	ASN	2.1
1	M	326	ASN	2.1
1	O	292	ASN	2.1
1	O	665	ILE	2.1
1	H	613	LYS	2.1
1	J	613	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	658	ASP	2.1
1	G	436	TYR	2.1
1	L	687	LEU	2.1
1	M	688	TYR	2.1
1	F	686	PRO	2.1
1	B	345	THR	2.1
1	E	433	THR	2.1
1	L	190	GLU	2.1
1	M	609	GLU	2.1
1	F	178	ARG	2.1
1	D	444	LYS	2.1
1	D	594	LYS	2.1
1	E	729	LYS	2.1
1	G	496	LYS	2.1
1	G	690	SER	2.1
1	H	329	SER	2.1
1	K	319	SER	2.1
1	L	291	LYS	2.1
1	M	446	LYS	2.1
1	M	717	SER	2.1
1	B	437	ASN	2.1
1	F	541	GLN	2.1
1	F	670	GLN	2.1
1	I	553	ASN	2.1
1	J	202	PHE	2.1
1	K	678	PHE	2.1
1	M	539	ASN	2.1
1	O	539	ASN	2.1
1	G	320	VAL	2.1
1	K	196	VAL	2.1
1	J	566	LEU	2.1
1	J	652	LEU	2.1
1	K	725	LEU	2.1
1	M	440	LEU	2.1
1	A	681	TYR	2.1
1	C	651	GLY	2.1
1	C	683	ASP	2.1
1	F	683	ASP	2.1
1	O	342	GLY	2.1
1	I	535	GLU	2.1
1	I	609	GLU	2.1
1	J	287	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
1	J	669	ARG	2.1
1	L	669	ARG	2.1
1	C	646	ILE	2.1
1	D	213	LYS	2.1
1	G	210	ILE	2.1
1	G	397	LYS	2.1
1	J	734	ILE	2.1
1	O	726	ILE	2.1
1	B	564	ASN	2.1
1	C	400	GLN	2.1
1	C	719	ASN	2.1
1	D	509	ASN	2.1
1	F	438	GLN	2.1
1	J	403	GLN	2.1
1	K	328	ASN	2.1
1	K	400	GLN	2.1
1	M	727	PHE	2.1
1	O	389	GLN	2.1
1	E	384	VAL	2.1
1	F	627	LEU	2.1
1	G	663	LEU	2.1
1	K	619	VAL	2.1
1	G	434	MET	2.1
1	E	597	HIS	2.0
1	K	694	TYR	2.0
1	M	495	GLY	2.0
1	E	346	TRP	2.0
1	G	346	TRP	2.0
1	M	686	PRO	2.0
1	B	197	LYS	2.0
1	B	275	GLU	2.0
1	B	295	THR	2.0
1	E	302	GLU	2.0
1	G	174	THR	2.0
1	H	617	ARG	2.0
1	I	658	ASP	2.0
1	I	213	LYS	2.0
1	J	707	ILE	2.0
1	K	190	GLU	2.0
1	L	659	ARG	2.0
1	O	659	ARG	2.0
1	B	676	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
1	O	646	ILE	2.0
1	I	358	ALA	2.0
1	I	701	VAL	2.0
1	L	175	VAL	2.0
1	M	403	GLN	2.0
1	B	209	ASN	2.0
1	J	602	ASN	2.0
1	M	693	ASN	2.0
1	M	697	ASN	2.0
1	B	474	GLY	2.0
1	F	672	GLY	2.0
1	D	304	HIS	2.0
1	D	598	TYR	2.0
1	D	404	ILE	2.0
1	D	643	ILE	2.0
1	G	729	LYS	2.0
1	E	445	THR	2.0
1	F	316	ILE	2.0
1	J	653	LYS	2.0
1	J	381	THR	2.0
1	M	288	THR	2.0
1	B	549	GLU	2.0
1	B	609	GLU	2.0
1	D	625	GLU	2.0
1	K	443	GLU	2.0
1	O	568	GLU	2.0
1	B	329	SER	2.0
1	D	420	ALA	2.0
1	D	596	PHE	2.0
1	C	652	LEU	2.0
1	F	668	LEU	2.0
1	J	717	SER	2.0
1	L	301	SER	2.0
1	O	685	LEU	2.0
1	F	455	VAL	2.0
1	I	264	VAL	2.0
1	B	561	ASN	2.0
1	F	630	ASN	2.0
1	H	719	ASN	2.0
1	I	292	ASN	2.0
1	I	422	ASN	2.0
1	I	719	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
1	L	466	ASN	2.0
1	B	387	LYS	2.0
1	D	722	LYS	2.0
1	F	613	LYS	2.0
1	E	689	ILE	2.0
1	E	734	ILE	2.0
1	H	468	ARG	2.0
1	I	676	ILE	2.0
1	L	287	ARG	2.0
1	D	300	THR	2.0
1	E	702	THR	2.0
1	F	288	THR	2.0
1	I	716	THR	2.0
1	M	702	THR	2.0
1	B	464	PHE	2.0
1	B	614	GLU	2.0
1	B	607	ALA	2.0
1	B	632	ASP	2.0
1	C	715	ASP	2.0
1	E	283	ASP	2.0
1	F	313	PHE	2.0
1	I	348	GLU	2.0
1	I	500	LEU	2.0
1	M	314	PHE	2.0
1	M	639	LEU	2.0
1	M	725	LEU	2.0
1	O	267	GLU	2.0
1	J	648	ASP	2.0
1	K	272	SER	2.0
1	J	644	VAL	2.0
1	L	701	VAL	2.0

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	CA	E	737	1/1	0.96	0.12	18,18,18,18	0
2	CA	I	736	1/1	0.96	0.06	33,33,33,33	0
2	CA	O	736	1/1	0.96	0.07	33,33,33,33	0
2	CA	O	737	1/1	0.96	0.06	18,18,18,18	0
2	CA	G	736	1/1	0.97	0.07	33,33,33,33	0
2	CA	K	736	1/1	0.97	0.08	33,33,33,33	0
2	CA	G	737	1/1	0.98	0.07	18,18,18,18	0
2	CA	D	737	1/1	0.98	0.04	18,18,18,18	0
2	CA	I	737	1/1	0.98	0.06	18,18,18,18	0
2	CA	J	737	1/1	0.98	0.06	18,18,18,18	0
2	CA	A	736	1/1	0.98	0.07	33,33,33,33	0
2	CA	L	737	1/1	0.98	0.04	18,18,18,18	0
2	CA	F	737	1/1	0.98	0.06	18,18,18,18	0
2	CA	B	736	1/1	0.98	0.10	33,33,33,33	0
2	CA	H	736	1/1	0.99	0.04	33,33,33,33	0
2	CA	H	737	1/1	0.99	0.04	18,18,18,18	0
2	CA	A	737	1/1	0.99	0.02	18,18,18,18	0
2	CA	E	736	1/1	0.99	0.06	33,33,33,33	0
2	CA	J	736	1/1	0.99	0.05	33,33,33,33	0
2	CA	B	737	1/1	0.99	0.07	18,18,18,18	0
2	CA	F	736	1/1	0.99	0.04	33,33,33,33	0
2	CA	K	737	1/1	0.99	0.03	18,18,18,18	0
2	CA	L	736	1/1	0.99	0.04	33,33,33,33	0
2	CA	C	736	1/1	0.99	0.09	33,33,33,33	0
2	CA	M	736	1/1	0.99	0.03	33,33,33,33	0
2	CA	C	737	1/1	0.99	0.05	18,18,18,18	0
2	CA	D	736	1/1	0.99	0.04	33,33,33,33	0
2	CA	M	737	1/1	1.00	0.02	18,18,18,18	0

6.5 Other polymers ⓘ

There are no such residues in this entry.