



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 28, 2026 – 06:21 PM UTC

PDB ID : 1FOU / pdb_00001fou
Title : CONNECTOR PROTEIN FROM BACTERIOPHAGE PHI29
Authors : Simpson, A.A.; Tao, Y.; Leiman, P.G.; Badasso, M.O.; He, Y.; Jardine, P.J.; Olson, N.H.; Morais, M.C.; Grimes, S.N.; Anderson, D.L.; Baker, T.S.; Rossmann, M.G.
Deposited on : 2000-08-28
Resolution : 3.20 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

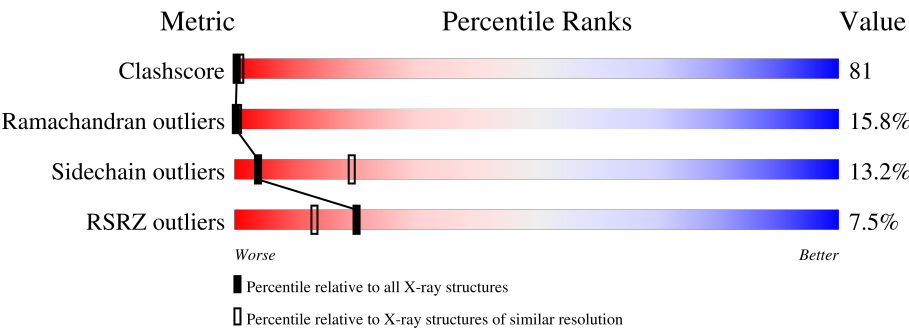
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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))
Clashscore	190562	1573 (3.20-3.20)
Ramachandran outliers	187476	1548 (3.20-3.20)
Sidechain outliers	187428	1547 (3.20-3.20)
RSRZ outliers	180081	1466 (3.20-3.20)

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	309	7% 17% 44% 18% • 17%
1	B	309	7% 15% 45% 19% 5% 17%
1	C	309	6% 14% 49% 18% • 17%
1	D	309	7% 11% 50% 19% • 17%
1	E	309	8% 12% 48% 21% • 17%
1	F	309	6% 17% 44% 18% 5% 17%
1	G	309	4% 15% 48% 18% • 17%

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Mol	Chain	Length	Quality of chain
1	H	309	6%14%48%17%•17%
1	I	309	5%16%47%17%•17%
1	J	309	5%13%46%20%•17%
1	K	309	6%16%47%16%•17%
1	L	309	7%20%42%19%•17%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 25272 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 UPPER COLLAR PROTEIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	B	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	C	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	D	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	E	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	F	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	G	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	H	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	I	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	J	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	K	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			
1	L	257	Total	C	N	O	S	0	0	0
			2106	1350	348	401	7			

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	225	LYS	LEU	conflict	UNP P04332
A	226	LEU	GLY	conflict	UNP P04332
A	227	GLN	ILE	conflict	UNP P04332
A	228	THR	LYS	conflict	UNP P04332
A	251	ASP	GLU	conflict	UNP P04332

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Chain	Residue	Modelled	Actual	Comment	Reference
B	225	LYS	LEU	conflict	UNP P04332
B	226	LEU	GLY	conflict	UNP P04332
B	227	GLN	ILE	conflict	UNP P04332
B	228	THR	LYS	conflict	UNP P04332
B	251	ASP	GLU	conflict	UNP P04332
C	225	LYS	LEU	conflict	UNP P04332
C	226	LEU	GLY	conflict	UNP P04332
C	227	GLN	ILE	conflict	UNP P04332
C	228	THR	LYS	conflict	UNP P04332
C	251	ASP	GLU	conflict	UNP P04332
D	225	LYS	LEU	conflict	UNP P04332
D	226	LEU	GLY	conflict	UNP P04332
D	227	GLN	ILE	conflict	UNP P04332
D	228	THR	LYS	conflict	UNP P04332
D	251	ASP	GLU	conflict	UNP P04332
E	225	LYS	LEU	conflict	UNP P04332
E	226	LEU	GLY	conflict	UNP P04332
E	227	GLN	ILE	conflict	UNP P04332
E	228	THR	LYS	conflict	UNP P04332
E	251	ASP	GLU	conflict	UNP P04332
F	225	LYS	LEU	conflict	UNP P04332
F	226	LEU	GLY	conflict	UNP P04332
F	227	GLN	ILE	conflict	UNP P04332
F	228	THR	LYS	conflict	UNP P04332
F	251	ASP	GLU	conflict	UNP P04332
G	225	LYS	LEU	conflict	UNP P04332
G	226	LEU	GLY	conflict	UNP P04332
G	227	GLN	ILE	conflict	UNP P04332
G	228	THR	LYS	conflict	UNP P04332
G	251	ASP	GLU	conflict	UNP P04332
H	225	LYS	LEU	conflict	UNP P04332
H	226	LEU	GLY	conflict	UNP P04332
H	227	GLN	ILE	conflict	UNP P04332
H	228	THR	LYS	conflict	UNP P04332
H	251	ASP	GLU	conflict	UNP P04332
I	225	LYS	LEU	conflict	UNP P04332
I	226	LEU	GLY	conflict	UNP P04332
I	227	GLN	ILE	conflict	UNP P04332
I	228	THR	LYS	conflict	UNP P04332
I	251	ASP	GLU	conflict	UNP P04332
J	225	LYS	LEU	conflict	UNP P04332
J	226	LEU	GLY	conflict	UNP P04332

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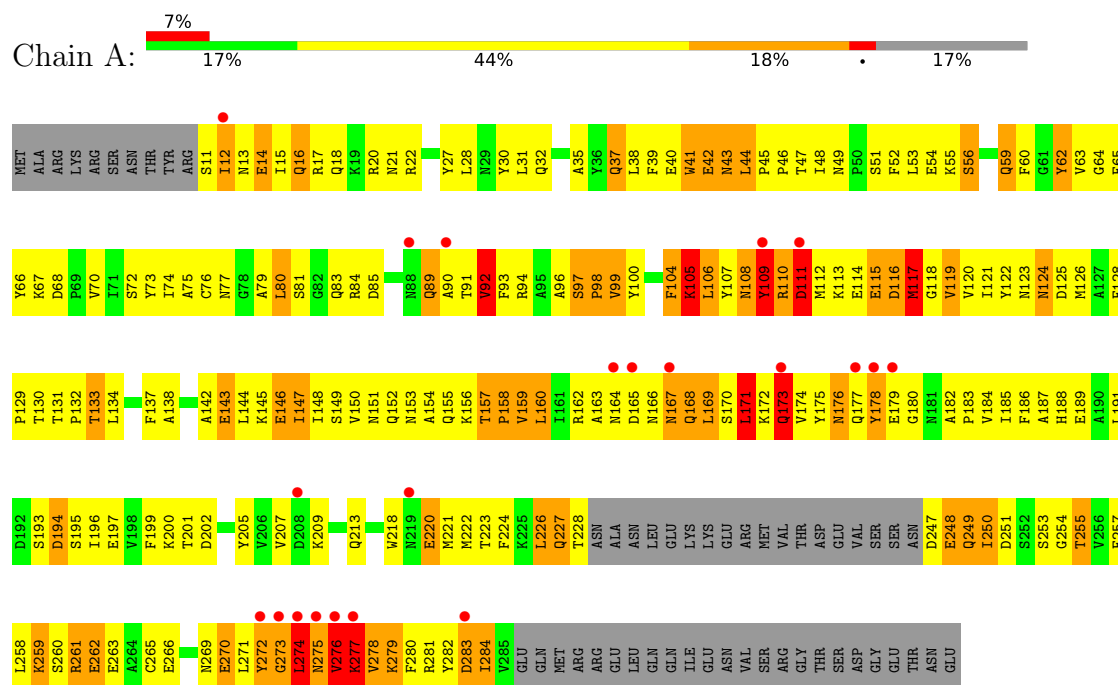
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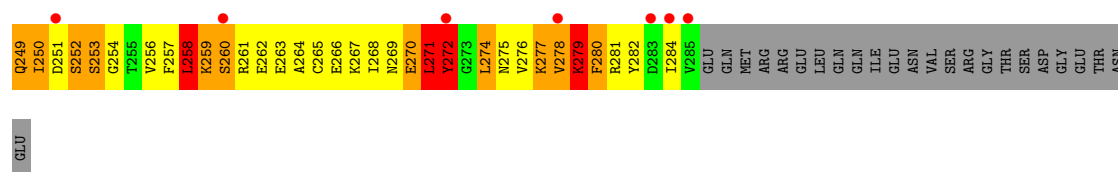
Chain	Residue	Modelled	Actual	Comment	Reference
J	227	GLN	ILE	conflict	UNP P04332
J	228	THR	LYS	conflict	UNP P04332
J	251	ASP	GLU	conflict	UNP P04332
K	225	LYS	LEU	conflict	UNP P04332
K	226	LEU	GLY	conflict	UNP P04332
K	227	GLN	ILE	conflict	UNP P04332
K	228	THR	LYS	conflict	UNP P04332
K	251	ASP	GLU	conflict	UNP P04332
L	225	LYS	LEU	conflict	UNP P04332
L	226	LEU	GLY	conflict	UNP P04332
L	227	GLN	ILE	conflict	UNP P04332
L	228	THR	LYS	conflict	UNP P04332
L	251	ASP	GLU	conflict	UNP P04332

3 Residue-property plots

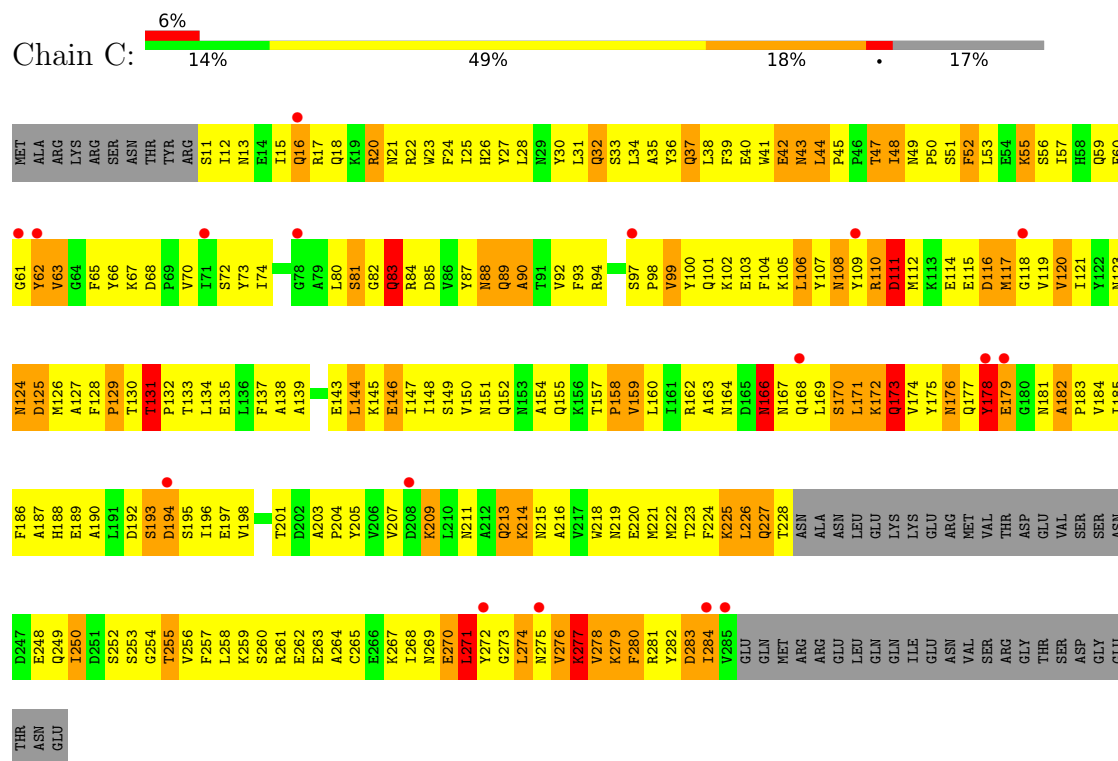
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

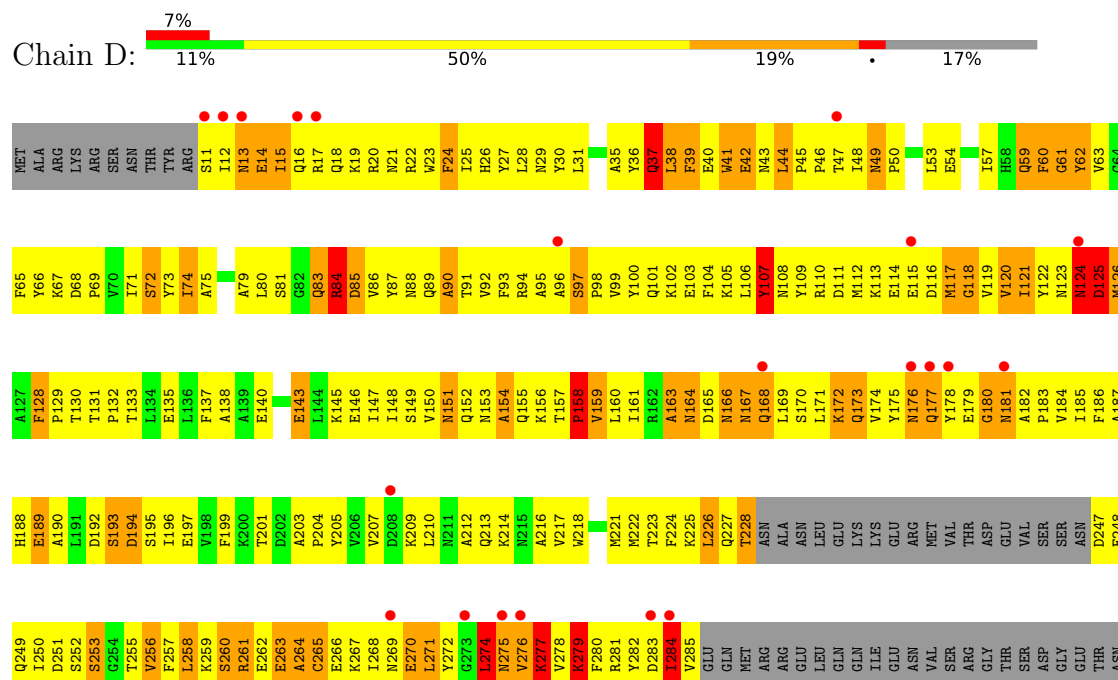




• Molecule 1: UPPER COLLAR PROTEIN

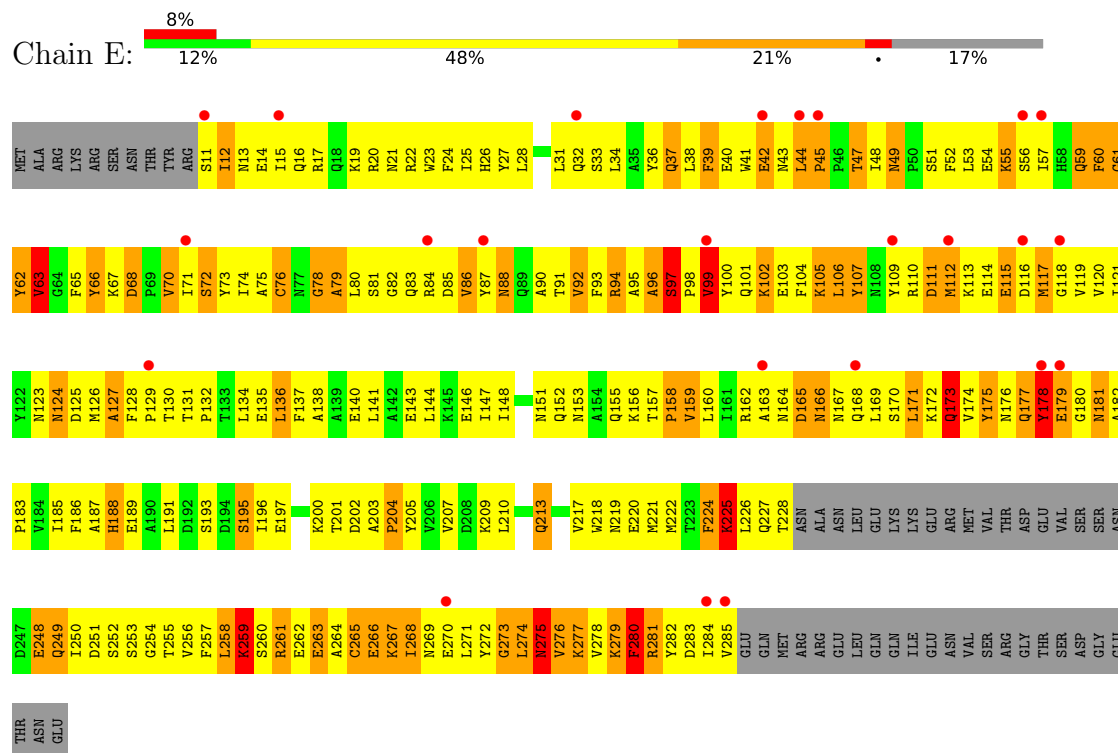


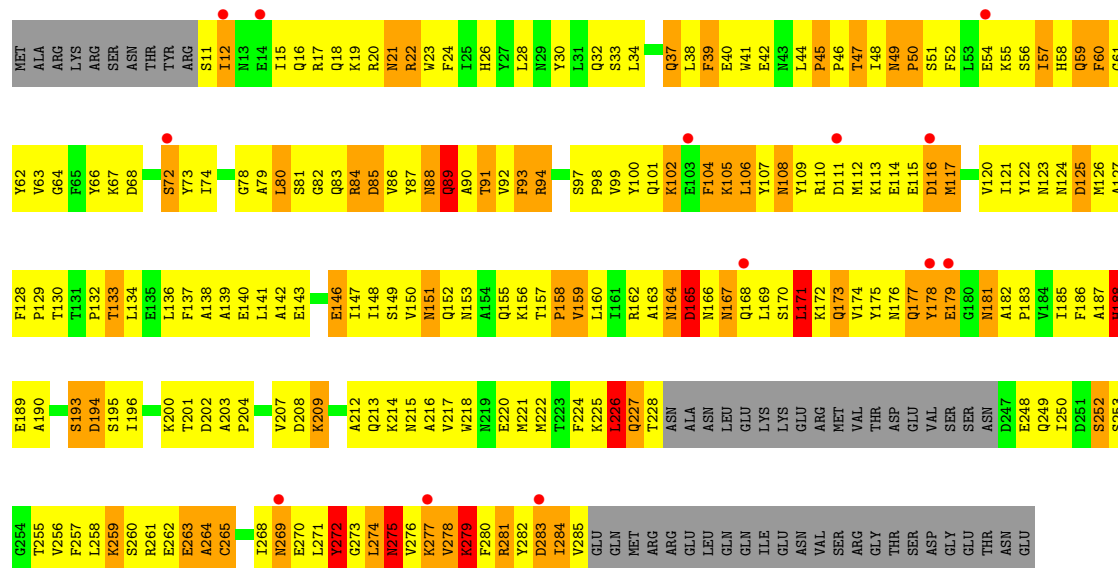
• Molecule 1: UPPER COLLAR PROTEIN



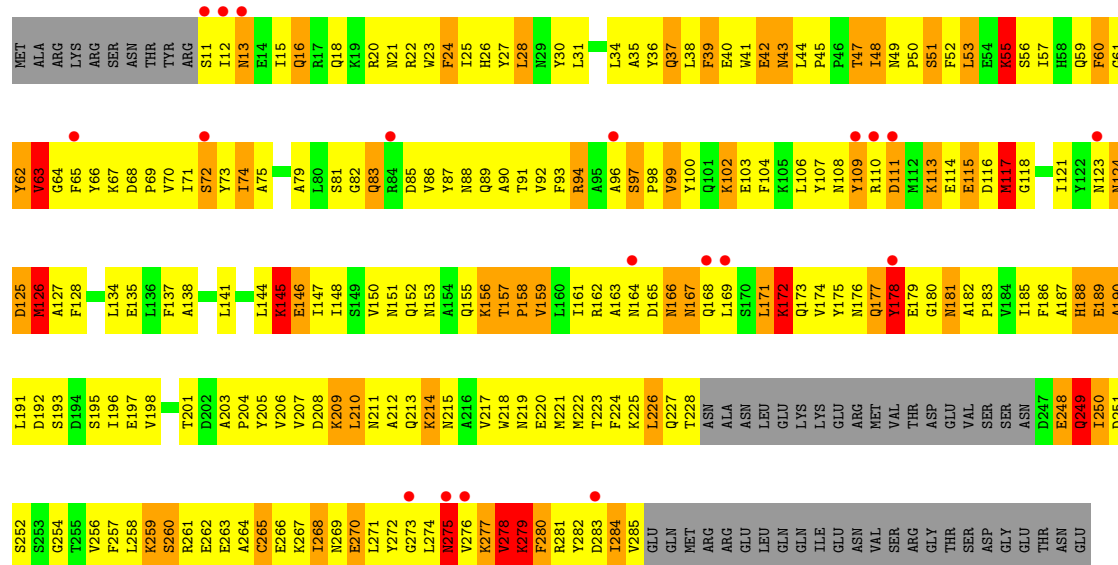
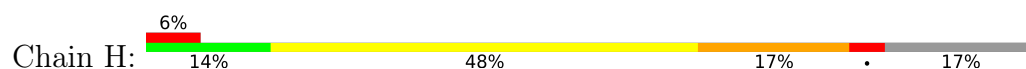
GLU

• Molecule 1: UPPER COLLAR PROTEIN

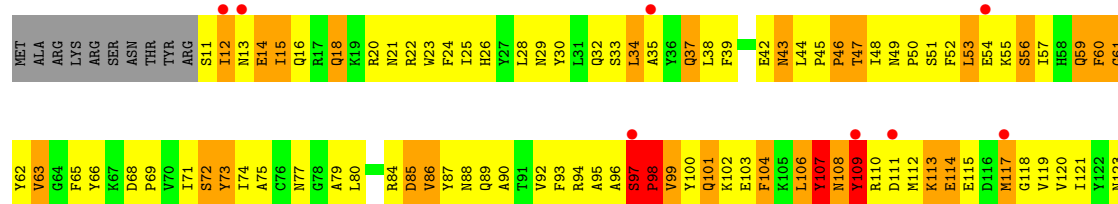
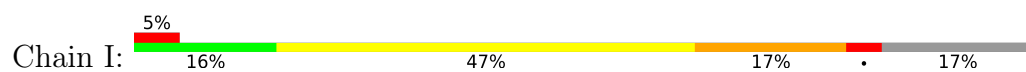




• Molecule 1: UPPER COLLAR PROTEIN

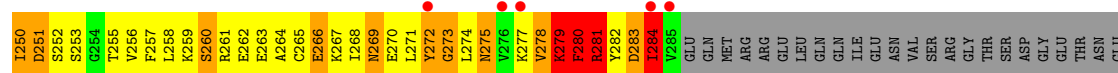


• Molecule 1: UPPER COLLAR PROTEIN



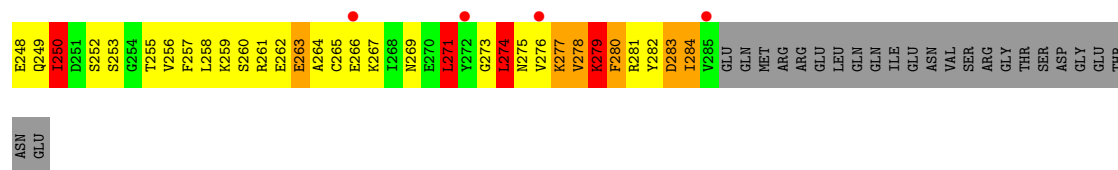


Chain J: 5% 13% 46% 20% 17%

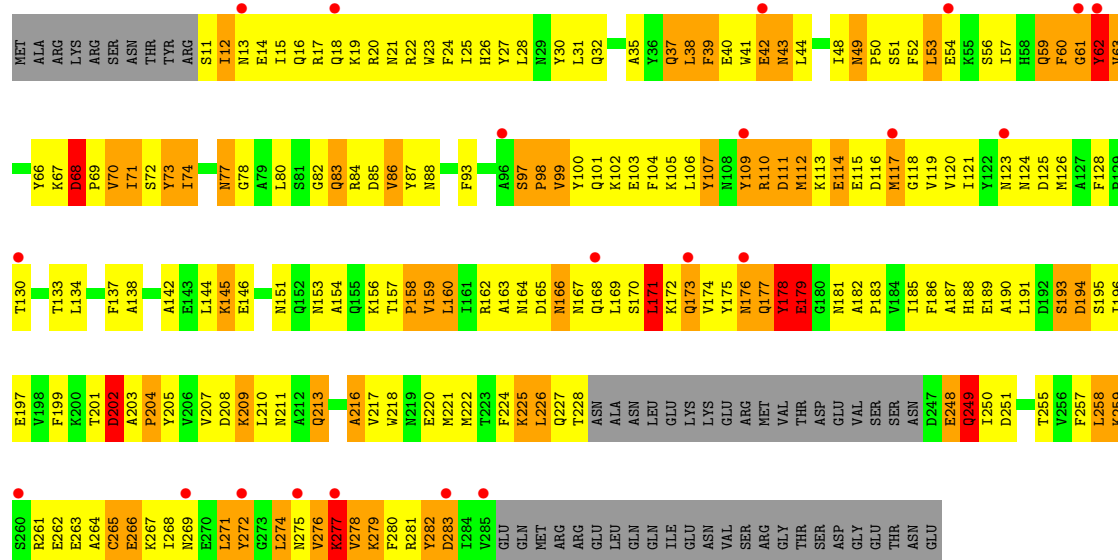
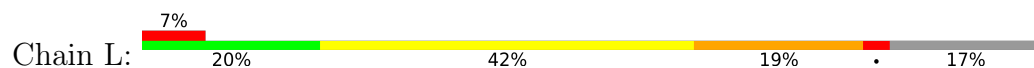


Chain K:





• Molecule 1: UPPER COLLAR PROTEIN



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	177.16Å 169.24Å 185.44Å 90.00° 114.10° 90.00°	Depositor
Resolution (Å)	9.00 – 3.20 9.00 – 3.50	Depositor EDS
% Data completeness (in resolution range)	99.5 (9.00-3.20) 93.3 (9.00-3.50)	Depositor EDS
R_{merge}	0.03	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	14.94 (at 3.48Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.290 , 0.360 0.277 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	56.7	Xtriage
Anisotropy	0.434	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.45 , 78.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.81	EDS
Total number of atoms	25272	wwPDB-VP
Average B, all atoms (Å ²)	15.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.95% 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

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.59	0/2153	1.13	23/2918 (0.8%)
1	B	0.57	0/2153	1.15	23/2918 (0.8%)
1	C	0.56	0/2153	1.12	16/2918 (0.5%)
1	D	0.55	0/2153	1.15	23/2918 (0.8%)
1	E	0.52	0/2153	1.09	17/2918 (0.6%)
1	F	0.57	0/2153	1.06	18/2918 (0.6%)
1	G	0.53	0/2153	1.05	16/2918 (0.5%)
1	H	0.54	0/2153	1.10	24/2918 (0.8%)
1	I	0.60	0/2153	1.19	26/2918 (0.9%)
1	J	0.59	0/2153	1.23	26/2918 (0.9%)
1	K	0.56	0/2153	1.08	16/2918 (0.5%)
1	L	0.60	0/2153	1.08	16/2918 (0.5%)
All	All	0.57	0/25836	1.12	244/35016 (0.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	D	0	1
1	L	0	1
All	All	0	2

There are no bond length outliers.

All (244) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	177	GLN	N-CA-C	-14.21	94.06	111.40
1	A	104	PHE	N-CA-C	13.83	122.03	108.75
1	J	177	GLN	N-CA-C	-13.68	94.71	111.40
1	L	271	LEU	N-CA-C	-11.96	97.16	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	177	GLN	N-CA-C	-11.88	93.38	111.56
1	K	90	ALA	N-CA-C	10.99	123.23	111.03
1	D	49	ASN	CA-C-N	10.66	133.16	119.84
1	D	49	ASN	C-N-CA	10.66	133.16	119.84
1	B	49	ASN	CA-C-N	10.55	133.02	119.84
1	B	49	ASN	C-N-CA	10.55	133.02	119.84
1	B	253	SER	N-CA-C	-9.88	100.90	113.16
1	I	86	VAL	N-CA-C	-9.78	101.19	113.22
1	H	249	GLN	N-CA-C	-9.76	100.50	111.82
1	B	209	LYS	N-CA-C	-9.46	100.05	111.69
1	K	177	GLN	N-CA-C	-9.35	99.60	112.12
1	H	176	ASN	N-CA-C	-9.31	102.10	112.72
1	J	106	LEU	N-CA-C	9.18	123.40	108.34
1	I	106	LEU	N-CA-C	9.15	123.82	108.90
1	G	173	GLN	N-CA-C	-9.06	101.37	111.07
1	E	173	GLN	N-CA-C	-9.00	100.42	111.40
1	C	280	PHE	N-CA-C	8.84	123.47	112.87
1	H	190	ALA	N-CA-C	-8.82	103.05	112.93
1	B	177	GLN	N-CA-C	-8.81	101.57	111.71
1	J	52	PHE	N-CA-C	-8.79	101.70	111.28
1	J	86	VAL	N-CA-C	-8.71	101.23	113.07
1	D	256	VAL	N-CA-C	-8.63	102.13	110.42
1	H	277	LYS	N-CA-C	8.63	120.71	108.54
1	H	13	ASN	N-CA-C	-8.49	104.94	114.62
1	J	273	GLY	N-CA-C	8.47	126.50	112.85
1	I	271	LEU	N-CA-C	-8.38	104.09	112.97
1	J	155	GLN	N-CA-C	-8.38	102.97	113.02
1	I	61	GLY	N-CA-C	-8.24	101.31	111.45
1	D	163	ALA	N-CA-C	-8.20	99.71	110.53
1	A	250	ILE	N-CA-C	-8.17	103.31	110.74
1	H	265	CYS	N-CA-C	-8.14	102.41	111.28
1	J	45	PRO	CA-C-N	8.04	129.89	119.84
1	J	45	PRO	C-N-CA	8.04	129.89	119.84
1	F	277	LYS	N-CA-C	7.98	123.35	112.90
1	D	190	ALA	N-CA-C	-7.97	102.54	111.71
1	I	279	LYS	N-CA-C	7.92	127.68	110.80
1	K	59	GLN	N-CA-C	-7.88	100.12	110.53
1	A	173	GLN	N-CA-C	-7.84	102.81	111.36
1	J	176	ASN	N-CA-C	-7.81	102.25	112.41
1	D	176	ASN	N-CA-C	-7.74	102.19	112.72
1	J	102	LYS	N-CA-C	7.67	120.27	108.07
1	I	114	GLU	N-CA-C	7.65	120.23	108.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	157	THR	N-CA-C	7.61	120.64	109.30
1	B	157	THR	CA-C-N	7.59	129.32	119.84
1	B	157	THR	C-N-CA	7.59	129.32	119.84
1	L	59	GLN	N-CA-C	-7.45	99.00	110.10
1	E	70	VAL	N-CA-C	-7.41	105.89	112.12
1	D	271	LEU	N-CA-C	-7.41	98.34	109.83
1	A	176	ASN	N-CA-C	-7.39	103.23	111.28
1	B	96	ALA	N-CA-C	7.34	120.05	107.93
1	I	275	ASN	N-CA-C	7.34	121.19	111.28
1	I	209	LYS	N-CA-C	-7.31	103.02	112.23
1	D	253	SER	N-CA-C	-7.30	103.32	111.71
1	H	157	THR	N-CA-C	7.29	119.26	108.76
1	A	105	LYS	N-CA-C	-7.28	95.29	110.80
1	J	110	ARG	N-CA-C	-7.26	104.37	112.57
1	H	210	LEU	N-CA-C	-7.22	102.81	111.69
1	D	59	GLN	N-CA-C	-7.15	99.86	110.23
1	J	182	ALA	CA-C-N	-7.12	112.98	120.03
1	J	182	ALA	C-N-CA	-7.12	112.98	120.03
1	J	105	LYS	N-CA-C	-7.05	101.45	110.19
1	A	180	GLY	N-CA-C	-7.01	106.73	115.08
1	D	173	GLN	N-CA-C	-7.00	103.83	112.38
1	A	266	GLU	N-CA-C	-6.98	103.67	111.28
1	C	90	ALA	N-CA-C	-6.92	100.93	110.35
1	L	171	LEU	N-CA-C	-6.88	96.14	110.80
1	K	92	VAL	N-CA-C	6.87	119.06	107.18
1	G	106	LEU	N-CA-C	6.86	120.70	109.24
1	K	210	LEU	N-CA-C	-6.84	103.82	111.28
1	B	252	SER	N-CA-C	-6.80	96.31	110.80
1	A	59	GLN	N-CA-C	-6.76	101.15	110.35
1	D	90	ALA	N-CA-C	-6.73	98.23	109.07
1	F	158	PRO	N-CA-C	-6.73	98.61	112.47
1	A	104	PHE	CB-CA-C	-6.72	106.65	116.53
1	K	176	ASN	N-CA-C	-6.71	102.36	111.55
1	G	252	SER	N-CA-C	-6.71	103.89	111.07
1	K	173	GLN	N-CA-C	-6.70	103.98	111.28
1	C	173	GLN	N-CA-C	-6.67	104.18	112.72
1	B	176	ASN	N-CA-C	-6.65	105.05	113.43
1	G	157	THR	N-CA-C	6.64	120.62	108.94
1	J	158	PRO	N-CA-C	-6.63	98.82	112.47
1	B	171	LEU	N-CA-C	-6.61	102.28	110.41
1	A	104	PHE	CA-C-O	6.61	122.49	118.33
1	J	179	GLU	N-CA-C	-6.60	104.16	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	266	GLU	N-CA-C	-6.57	103.81	110.97
1	G	177	GLN	N-CA-C	-6.55	101.53	111.56
1	I	158	PRO	N-CA-C	-6.54	99.01	112.47
1	G	157	THR	CA-C-N	6.49	127.95	119.84
1	G	157	THR	C-N-CA	6.49	127.95	119.84
1	K	171	LEU	N-CA-C	-6.49	102.43	110.41
1	D	24	PHE	N-CA-C	-6.48	104.14	111.14
1	D	41	TRP	N-CA-C	6.47	120.80	112.26
1	L	176	ASN	N-CA-C	-6.39	104.23	111.07
1	G	125	ASP	N-CA-C	-6.38	104.56	113.37
1	L	145	LYS	N-CA-C	-6.38	104.37	111.71
1	H	280	PHE	N-CA-C	-6.38	100.18	110.32
1	C	157	THR	N-CA-C	6.36	120.59	110.73
1	A	270	GLU	N-CA-C	-6.34	105.83	112.93
1	J	103	GLU	N-CA-C	-6.33	99.92	109.79
1	C	158	PRO	N-CA-C	-6.29	99.30	111.69
1	J	107	TYR	N-CA-C	6.28	124.17	110.80
1	K	280	PHE	N-CA-C	-6.28	105.49	113.02
1	D	128	PHE	CA-C-N	6.26	126.44	120.31
1	D	128	PHE	C-N-CA	6.26	126.44	120.31
1	C	166	ASN	N-CA-C	-6.23	103.82	112.30
1	E	158	PRO	N-CA-C	-6.23	99.42	111.69
1	E	66	TYR	N-CA-C	6.20	119.92	109.76
1	I	248	GLU	N-CA-C	-6.14	104.64	111.71
1	J	59	GLN	N-CA-C	-6.14	100.90	110.42
1	L	216	ALA	N-CA-C	-6.13	104.28	110.97
1	L	110	ARG	N-CA-C	-6.13	98.26	108.75
1	F	177	GLN	N-CA-C	-6.11	97.79	110.80
1	J	38	LEU	N-CA-C	-6.11	102.47	110.53
1	H	72	SER	N-CA-C	6.10	119.14	108.52
1	C	209	LYS	N-CA-C	-6.10	106.00	113.50
1	K	250	ILE	N-CA-C	-6.09	104.57	110.42
1	I	213	GLN	N-CA-C	-6.09	104.72	111.36
1	F	157	THR	N-CA-C	6.07	120.02	108.97
1	F	14	GLU	N-CA-C	-6.06	104.37	110.97
1	F	74	ILE	N-CA-C	6.05	116.23	107.88
1	C	271	LEU	N-CA-C	-6.02	104.05	113.02
1	H	166	ASN	N-CA-C	-6.02	104.63	111.07
1	J	75	ALA	N-CA-C	-5.97	98.79	108.52
1	I	34	LEU	N-CA-C	-5.96	105.66	113.12
1	L	130	THR	N-CA-C	-5.96	106.55	113.88
1	D	37	GLN	N-CA-C	5.96	119.37	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	50	PRO	N-CA-C	-5.94	101.88	111.03
1	I	192	ASP	N-CA-C	5.93	117.15	108.14
1	H	24	PHE	N-CA-C	-5.93	104.73	111.07
1	F	104	PHE	N-CA-C	5.92	117.27	107.73
1	E	136	LEU	N-CA-C	-5.91	104.47	111.03
1	J	126	MET	N-CA-C	-5.90	99.57	109.07
1	J	284	ILE	N-CA-C	-5.88	97.10	109.34
1	B	223	THR	N-CA-C	-5.88	104.23	111.40
1	G	22	ARG	N-CA-C	-5.86	106.47	113.97
1	L	157	THR	N-CA-C	5.84	119.13	109.79
1	F	214	LYS	N-CA-C	-5.83	104.83	111.07
1	A	158	PRO	N-CA-C	-5.81	101.38	111.32
1	B	157	THR	N-CA-C	5.81	119.54	108.97
1	B	102	LYS	N-CA-C	5.80	118.13	109.25
1	K	220	GLU	N-CA-C	-5.79	104.97	111.28
1	G	49	ASN	CA-C-N	5.78	127.07	119.84
1	G	49	ASN	C-N-CA	5.78	127.07	119.84
1	C	55	LYS	N-CA-C	-5.78	105.06	111.71
1	A	76	CYS	N-CA-C	5.77	118.96	109.72
1	C	225	LYS	N-CA-C	5.75	117.20	110.41
1	I	263	GLU	N-CA-C	-5.75	105.09	111.71
1	L	209	LYS	N-CA-C	-5.75	105.37	112.90
1	A	98	PRO	N-CA-C	-5.74	102.19	111.14
1	A	160	LEU	N-CA-C	-5.73	100.44	109.50
1	F	271	LEU	N-CA-C	-5.73	104.03	111.71
1	E	175	TYR	N-CA-C	-5.72	105.40	112.38
1	I	104	PHE	N-CA-C	5.70	117.63	109.14
1	I	173	GLN	N-CA-C	-5.69	104.46	111.40
1	D	13	ASN	N-CA-C	-5.68	106.40	113.38
1	E	280	PHE	N-CA-C	-5.67	105.55	113.37
1	F	106	LEU	N-CA-C	5.65	117.86	108.99
1	I	176	ASN	N-CA-C	-5.65	105.04	111.14
1	H	279	LYS	N-CA-C	5.65	122.83	110.80
1	C	270	GLU	N-CA-C	-5.65	104.14	111.71
1	E	14	GLU	N-CA-C	-5.62	104.85	110.97
1	I	171	LEU	N-CA-C	-5.62	102.94	110.24
1	E	265	CYS	N-CA-C	-5.61	104.55	111.33
1	B	141	LEU	N-CA-C	-5.59	105.10	111.14
1	A	262	GLU	N-CA-C	-5.59	104.00	112.04
1	D	168	GLN	N-CA-C	-5.57	104.50	112.13
1	J	34	LEU	N-CA-C	-5.57	106.16	113.12
1	D	120	VAL	N-CA-C	5.56	120.90	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	157	THR	N-CA-C	5.55	122.08	109.81
1	F	33	SER	N-CA-C	-5.54	104.62	111.33
1	E	179	GLU	N-CA-C	-5.52	104.90	111.69
1	I	97	SER	CA-C-N	5.52	126.74	119.84
1	I	97	SER	C-N-CA	5.52	126.74	119.84
1	L	158	PRO	N-CA-C	-5.52	100.82	111.69
1	K	167	ASN	CB-CA-C	-5.52	108.61	115.89
1	A	147	ILE	N-CA-C	-5.50	105.75	111.58
1	F	52	PHE	N-CA-C	-5.50	105.44	111.82
1	E	62	TYR	CB-CA-C	-5.46	108.57	116.54
1	H	145	LYS	N-CA-C	-5.46	105.43	111.71
1	D	180	GLY	N-CA-C	-5.45	107.50	114.37
1	A	16	GLN	N-CA-C	-5.45	106.76	113.41
1	C	48	ILE	N-CA-C	5.43	116.01	108.84
1	K	224	PHE	N-CA-C	-5.43	106.61	113.18
1	H	16	GLN	N-CA-C	-5.41	104.62	111.11
1	K	98	PRO	N-CA-C	-5.41	104.19	113.70
1	F	252	SER	N-CA-C	-5.40	105.55	111.82
1	H	126	MET	N-CA-C	-5.40	100.31	108.46
1	B	125	ASP	N-CA-C	-5.38	101.40	109.15
1	G	265	CYS	N-CA-C	-5.38	107.08	113.97
1	H	158	PRO	N-CA-C	-5.38	101.38	112.47
1	G	45	PRO	N-CA-C	-5.38	104.14	110.70
1	B	248	GLU	N-CA-C	-5.38	106.79	113.19
1	E	59	GLN	N-CA-C	-5.37	100.04	108.63
1	A	220	GLU	N-CA-C	-5.37	105.33	111.07
1	I	280	PHE	N-CA-C	-5.37	99.98	108.73
1	C	176	ASN	N-CA-C	-5.37	105.83	112.38
1	L	282	TYR	N-CA-C	-5.35	102.13	110.42
1	H	220	GLU	N-CA-C	-5.33	105.63	111.82
1	J	18	GLN	N-CA-C	-5.33	106.62	113.23
1	A	171	LEU	N-CA-C	-5.33	99.45	110.80
1	D	214	LYS	N-CA-C	-5.32	106.05	112.54
1	K	13	ASN	N-CA-C	-5.31	106.39	112.92
1	B	85	ASP	N-CA-C	5.29	116.82	109.31
1	C	144	LEU	N-CA-C	-5.28	105.42	111.07
1	H	214	LYS	N-CA-C	-5.28	105.42	111.07
1	E	55	LYS	N-CA-C	-5.27	105.23	110.97
1	A	145	LYS	N-CA-C	-5.26	105.63	111.36
1	K	121	ILE	CB-CA-C	-5.26	106.69	112.68
1	C	264	ALA	N-CA-C	-5.26	105.63	111.36
1	L	86	VAL	N-CA-C	-5.25	106.18	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	273	GLY	N-CA-C	5.23	125.58	113.18
1	I	174	VAL	N-CA-C	-5.23	104.55	111.09
1	L	190	ALA	N-CA-C	-5.21	105.72	111.71
1	H	55	LYS	N-CA-C	-5.21	105.50	111.07
1	G	181	ASN	N-CA-C	5.19	116.74	111.14
1	F	44	LEU	CA-C-N	5.19	125.72	120.38
1	F	44	LEU	C-N-CA	5.19	125.72	120.38
1	F	180	GLY	N-CA-C	-5.19	107.83	115.30
1	B	59	GLN	N-CA-C	-5.18	99.77	110.80
1	B	113	LYS	N-CA-C	5.18	115.88	107.23
1	G	93	PHE	N-CA-C	-5.17	101.85	109.86
1	L	24	PHE	N-CA-C	-5.17	105.65	111.28
1	E	209	LYS	N-CA-C	-5.16	105.28	112.45
1	B	174	VAL	N-CA-C	-5.14	105.53	110.72
1	I	253	SER	N-CA-C	-5.14	106.84	113.01
1	H	156	LYS	CA-C-N	-5.13	117.60	122.37
1	H	156	LYS	C-N-CA	-5.13	117.60	122.37
1	G	188	HIS	N-CA-C	5.13	121.72	110.80
1	J	173	GLN	N-CA-C	-5.10	105.72	111.28
1	H	48	ILE	N-CA-C	5.10	115.11	107.51
1	I	138	ALA	N-CA-C	-5.09	105.62	111.07
1	B	271	LEU	N-CA-C	-5.08	99.98	110.80
1	A	106	LEU	N-CA-C	5.07	117.96	110.46
1	D	166	ASN	N-CA-C	-5.05	105.28	111.75
1	L	210	LEU	N-CA-C	-5.05	105.85	111.36
1	I	18	GLN	N-CA-C	-5.05	105.90	111.71
1	C	52	PHE	N-CA-C	-5.04	105.43	111.03
1	F	165	ASP	N-CA-C	5.04	116.99	108.02
1	D	177	GLN	N-CA-C	-5.01	100.12	110.80
1	B	106	LEU	N-CA-C	5.00	116.99	109.23

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	D	107	TYR	Sidechain
1	L	62	TYR	Sidechain

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	2106	0	2051	322	0
1	B	2106	0	2051	358	0
1	C	2106	0	2051	390	0
1	D	2106	0	2051	422	0
1	E	2106	0	2051	387	0
1	F	2106	0	2051	351	0
1	G	2106	0	2051	383	0
1	H	2106	0	2051	364	0
1	I	2106	0	2051	363	0
1	J	2106	0	2051	389	0
1	K	2106	0	2051	370	0
1	L	2106	0	2051	332	0
All	All	25272	0	24612	4049	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 81.

All (4049) 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:F:119:VAL:HG11	1:F:268:ILE:HB	1.31	1.11
1:I:275:ASN:HB2	1:I:277:LYS:HE3	1.18	1.11
1:C:43:ASN:HB2	1:C:277:LYS:HD2	1.33	1.10
1:D:163:ALA:HB3	1:E:187:ALA:HB2	1.26	1.10
1:K:278:VAL:HG23	1:K:279:LYS:H	1.14	1.10
1:J:117:MET:HG3	1:J:118:GLY:H	1.10	1.10
1:G:163:ALA:HB3	1:H:187:ALA:HB2	1.27	1.10
1:C:47:THR:HG21	1:C:73:TYR:H	1.17	1.10
1:H:97:SER:HB3	1:H:98:PRO:HD2	1.32	1.09
1:J:89:GLN:HG3	1:J:91:THR:H	1.17	1.08
1:A:275:ASN:HB3	1:A:277:LYS:HE2	1.34	1.08
1:D:85:ASP:CG	1:D:89:GLN:HB3	1.79	1.08
1:C:249:GLN:HG2	1:D:222:MET:HE2	1.32	1.07
1:F:15:ILE:HA	1:F:18:GLN:HE21	1.12	1.07
1:L:117:MET:HE3	1:L:271:LEU:HG	1.13	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:278:VAL:HG12	1:L:279:LYS:H	1.19	1.07
1:K:109:TYR:H	1:K:112:MET:HB3	1.11	1.06
1:C:274:LEU:HD23	1:C:276:VAL:H	1.16	1.05
1:J:85:ASP:HB2	1:J:89:GLN:H	1.17	1.04
1:A:108:ASN:HD21	1:A:117:MET:HB2	1.16	1.04
1:F:108:ASN:HD21	1:F:271:LEU:HB2	1.16	1.04
1:I:117:MET:HG2	1:I:271:LEU:HD13	1.36	1.04
1:J:223:THR:HG23	1:J:250:ILE:HG12	1.37	1.04
1:F:277:LYS:NZ	1:F:278:VAL:H	1.56	1.04
1:B:43:ASN:N	1:B:277:LYS:HZ3	1.55	1.03
1:K:250:ILE:H	1:K:250:ILE:HD13	1.18	1.03
1:D:57:ILE:HG22	1:D:123:ASN:HB2	1.38	1.02
1:D:265:CYS:SG	1:D:276:VAL:HA	1.98	1.02
1:H:81:SER:HB3	1:H:94:ARG:HE	1.19	1.02
1:F:277:LYS:N	1:F:277:LYS:HZ2	1.58	1.02
1:B:84:ARG:HB3	1:B:88:ASN:HA	1.41	1.02
1:C:109:TYR:HB3	1:C:112:MET:SD	1.99	1.02
1:J:147:ILE:HG12	1:K:156:LYS:HE3	1.41	1.01
1:F:41:TRP:HA	1:F:278:VAL:HA	1.39	1.01
1:E:174:VAL:HG13	1:E:177:GLN:HE21	1.24	1.01
1:K:43:ASN:HB3	1:K:277:LYS:HD2	1.43	1.00
1:A:275:ASN:HB3	1:A:277:LYS:CE	1.91	1.00
1:H:201:THR:HG23	1:I:159:VAL:HG11	1.42	0.99
1:C:164:ASN:HB3	1:C:195:SER:HA	1.43	0.99
1:H:182:ALA:HB1	1:H:183:PRO:HD2	1.45	0.99
1:I:163:ALA:HB3	1:J:187:ALA:HB2	1.45	0.99
1:J:66:TYR:HB2	1:J:104:PHE:CZ	1.96	0.99
1:K:162:ARG:NH1	1:L:193:SER:HA	1.77	0.99
1:E:201:THR:HG23	1:F:159:VAL:HG11	1.44	0.98
1:D:158:PRO:O	1:D:159:VAL:HG23	1.62	0.98
1:B:163:ALA:HB3	1:C:187:ALA:HB2	1.41	0.98
1:E:261:ARG:HG3	1:E:261:ARG:HH11	1.24	0.98
1:K:158:PRO:O	1:K:159:VAL:HG23	1.64	0.98
1:A:66:TYR:HB2	1:A:104:PHE:CZ	1.97	0.98
1:G:177:GLN:HG2	1:G:179:GLU:HG2	1.45	0.98
1:J:124:ASN:HD21	1:J:128:PHE:HB2	1.25	0.98
1:A:187:ALA:HB2	1:L:163:ALA:HB3	1.46	0.97
1:E:81:SER:HA	1:E:84:ARG:HH22	1.22	0.97
1:C:40:GLU:HB2	1:C:281:ARG:HE	1.28	0.97
1:E:163:ALA:HB3	1:F:187:ALA:HB2	1.45	0.97
1:K:85:ASP:OD1	1:K:89:GLN:HB3	1.65	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:85:ASP:HB3	1:F:89:GLN:HG3	1.47	0.96
1:C:257:PHE:HB3	1:C:261:ARG:HH21	1.27	0.96
1:D:201:THR:HG23	1:E:159:VAL:HG11	1.48	0.96
1:G:41:TRP:HA	1:G:277:LYS:HB3	1.46	0.96
1:E:93:PHE:HB3	1:E:104:PHE:HB2	1.48	0.96
1:I:11:SER:HB3	1:J:172:LYS:HE2	1.48	0.96
1:K:265:CYS:SG	1:K:276:VAL:HA	2.06	0.96
1:H:93:PHE:HB2	1:H:106:LEU:HD21	1.48	0.96
1:J:269:ASN:HD21	1:J:275:ASN:HB2	1.31	0.95
1:C:43:ASN:N	1:C:277:LYS:HZ3	1.63	0.95
1:A:159:VAL:HG11	1:L:201:THR:HG23	1.48	0.95
1:F:13:ASN:HD21	1:H:179:GLU:HA	1.29	0.95
1:G:17:ARG:HG3	1:G:20:ARG:HH21	1.28	0.95
1:E:44:LEU:HG	1:E:277:LYS:HZ1	1.29	0.95
1:F:84:ARG:HB3	1:F:88:ASN:HA	1.46	0.94
1:E:37:GLN:O	1:E:281:ARG:HD2	1.67	0.94
1:E:93:PHE:HB3	1:E:104:PHE:CB	1.97	0.94
1:K:109:TYR:H	1:K:112:MET:CB	1.79	0.94
1:L:274:LEU:HD23	1:L:276:VAL:H	1.32	0.94
1:J:225:LYS:HE3	1:J:227:GLN:HE21	1.32	0.94
1:L:164:ASN:HD22	1:L:195:SER:HA	1.32	0.94
1:D:84:ARG:HB3	1:D:84:ARG:HH11	1.33	0.94
1:K:67:LYS:HG2	1:K:117:MET:HG2	1.48	0.94
1:K:55:LYS:HB3	1:K:59:GLN:HE22	1.31	0.93
1:H:163:ALA:HB3	1:I:187:ALA:HB2	1.47	0.93
1:B:42:GLU:C	1:B:277:LYS:HZ3	1.76	0.93
1:A:85:ASP:OD1	1:A:89:GLN:HB2	1.69	0.93
1:D:174:VAL:HG12	1:D:177:GLN:NE2	1.83	0.92
1:D:11:SER:N	1:F:179:GLU:HB3	1.83	0.92
1:K:117:MET:HB2	1:K:271:LEU:HD13	1.51	0.92
1:I:123:ASN:ND2	1:I:261:ARG:HH21	1.67	0.92
1:J:249:GLN:O	1:J:253:SER:HB2	1.69	0.92
1:E:78:GLY:HA3	1:E:95:ALA:HA	1.50	0.92
1:I:162:ARG:NH1	1:J:193:SER:HA	1.85	0.92
1:J:222:MET:HB3	1:J:227:GLN:HB2	1.52	0.91
1:B:87:TYR:O	1:B:88:ASN:HB2	1.70	0.91
1:D:174:VAL:HG12	1:D:177:GLN:HE21	1.34	0.91
1:J:77:ASN:H	1:J:77:ASN:HD22	1.04	0.91
1:E:265:CYS:O	1:E:268:ILE:HG22	1.69	0.91
1:K:269:ASN:ND2	1:K:275:ASN:H	1.69	0.91
1:C:42:GLU:C	1:C:277:LYS:HZ3	1.79	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:43:ASN:HB2	1:B:277:LYS:HD2	1.51	0.90
1:D:174:VAL:O	1:D:177:GLN:HG3	1.70	0.90
1:D:269:ASN:HB3	1:D:274:LEU:HA	1.53	0.90
1:E:99:VAL:HG13	1:E:100:TYR:H	1.34	0.90
1:A:163:ALA:HB3	1:B:187:ALA:HB2	1.53	0.90
1:K:42:GLU:C	1:K:277:LYS:HZ3	1.80	0.90
1:F:41:TRP:HZ3	1:F:265:CYS:HB3	1.34	0.89
1:F:261:ARG:H	1:F:261:ARG:HD2	1.33	0.89
1:B:108:ASN:CG	1:B:267:LYS:HB3	1.97	0.89
1:H:53:LEU:HG	1:H:65:PHE:CZ	2.07	0.89
1:L:15:ILE:HA	1:L:18:GLN:HE21	1.37	0.89
1:J:89:GLN:HG3	1:J:91:THR:N	1.88	0.89
1:K:269:ASN:HD21	1:K:275:ASN:H	1.18	0.89
1:L:248:GLU:O	1:L:250:ILE:N	2.05	0.89
1:D:117:MET:HG3	1:D:271:LEU:HD13	1.55	0.89
1:E:66:TYR:HB2	1:E:104:PHE:CZ	2.08	0.89
1:K:163:ALA:HB3	1:L:187:ALA:HB2	1.52	0.89
1:I:201:THR:HG23	1:J:159:VAL:HG11	1.55	0.89
1:H:13:ASN:HA	1:H:16:GLN:HE21	1.38	0.88
1:J:201:THR:HG23	1:K:159:VAL:HG11	1.55	0.88
1:B:117:MET:HB2	1:B:271:LEU:HD13	1.54	0.88
1:J:48:ILE:HD11	1:J:73:TYR:HB3	1.56	0.88
1:D:44:LEU:HD23	1:D:275:ASN:ND2	1.87	0.88
1:B:108:ASN:ND2	1:B:119:VAL:HG21	1.88	0.88
1:J:275:ASN:O	1:J:277:LYS:HG3	1.74	0.88
1:G:89:GLN:NE2	1:G:91:THR:HA	1.89	0.87
1:J:77:ASN:HD22	1:J:77:ASN:N	1.70	0.87
1:D:148:ILE:HG23	1:D:207:VAL:HG13	1.56	0.87
1:L:42:GLU:O	1:L:43:ASN:HB2	1.73	0.87
1:B:270:GLU:O	1:B:271:LEU:HG	1.74	0.87
1:F:164:ASN:HB3	1:F:195:SER:HA	1.54	0.87
1:H:97:SER:HB3	1:H:98:PRO:CD	2.04	0.87
1:C:131:THR:O	1:C:135:GLU:HG3	1.75	0.87
1:B:223:THR:HG23	1:B:250:ILE:HG23	1.57	0.87
1:G:16:GLN:HG3	1:G:20:ARG:NE	1.89	0.87
1:K:193:SER:O	1:K:194:ASP:HB2	1.75	0.87
1:D:107:TYR:HB2	1:D:267:LYS:HD3	1.56	0.86
1:A:201:THR:HG23	1:B:159:VAL:HG11	1.55	0.86
1:C:163:ALA:HB3	1:D:187:ALA:CB	2.05	0.86
1:K:94:ARG:HG3	1:K:103:GLU:HG2	1.57	0.86
1:K:109:TYR:N	1:K:112:MET:HB3	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:117:MET:HE3	1:L:271:LEU:CG	2.02	0.86
1:F:47:THR:HG21	1:F:72:SER:HB3	1.55	0.86
1:G:163:ALA:HB3	1:H:187:ALA:CB	2.05	0.86
1:I:112:MET:O	1:I:113:LYS:HB2	1.74	0.86
1:A:164:ASN:HB3	1:A:195:SER:HA	1.57	0.86
1:H:62:TYR:HE2	1:H:79:ALA:HA	1.39	0.86
1:A:108:ASN:ND2	1:A:117:MET:HB2	1.91	0.86
1:G:168:GLN:HB3	1:G:188:HIS:NE2	1.89	0.86
1:G:249:GLN:HE21	1:H:222:MET:HE2	1.38	0.86
1:K:105:LYS:NZ	1:K:114:GLU:HG2	1.90	0.86
1:D:44:LEU:HD23	1:D:275:ASN:HD21	1.37	0.86
1:I:28:LEU:HD11	1:I:135:GLU:HG2	1.58	0.86
1:I:117:MET:CE	1:I:271:LEU:HD22	2.06	0.86
1:A:104:PHE:O	1:A:105:LYS:HG3	1.74	0.85
1:D:43:ASN:O	1:D:44:LEU:HB2	1.76	0.85
1:E:44:LEU:HA	1:E:275:ASN:HD21	1.42	0.85
1:I:124:ASN:HD21	1:I:128:PHE:H	1.24	0.85
1:D:105:LYS:H	1:D:105:LYS:HE2	1.39	0.85
1:F:31:LEU:HB3	1:F:134:LEU:HD22	1.56	0.85
1:F:277:LYS:HZ3	1:F:278:VAL:H	1.19	0.85
1:K:102:LYS:HG3	1:K:103:GLU:H	1.39	0.85
1:A:133:THR:HG21	1:A:224:PHE:CE2	2.12	0.85
1:B:44:LEU:HD23	1:B:275:ASN:HD21	1.39	0.85
1:H:44:LEU:HB3	1:H:45:PRO:HD2	1.57	0.85
1:J:117:MET:HG3	1:J:118:GLY:N	1.91	0.85
1:D:249:GLN:HG3	1:D:250:ILE:HD12	1.59	0.85
1:I:74:ILE:HG12	1:I:75:ALA:H	1.41	0.85
1:I:258:LEU:HD21	1:I:278:VAL:HG13	1.55	0.85
1:B:274:LEU:HD23	1:B:274:LEU:C	2.02	0.85
1:I:61:GLY:O	1:I:63:VAL:HG23	1.77	0.85
1:J:174:VAL:CG1	1:J:177:GLN:HE21	1.89	0.85
1:J:108:ASN:ND2	1:J:271:LEU:HB2	1.92	0.84
1:I:277:LYS:HG3	1:I:278:VAL:H	1.42	0.84
1:K:53:LEU:HD21	1:K:121:ILE:HD12	1.58	0.84
1:C:53:LEU:HD12	1:C:63:VAL:HG21	1.57	0.84
1:D:43:ASN:H	1:D:277:LYS:HD2	1.41	0.84
1:K:41:TRP:O	1:K:277:LYS:HG2	1.77	0.84
1:L:126:MET:HG2	1:L:128:PHE:CZ	2.12	0.84
1:I:56:SER:HB3	1:I:63:VAL:HG22	1.59	0.84
1:A:261:ARG:HB3	1:A:278:VAL:HG13	1.60	0.84
1:J:258:LEU:HD12	1:J:278:VAL:HG12	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:109:TYR:C	1:K:111:ASP:H	1.82	0.84
1:H:124:ASN:ND2	1:H:128:PHE:HB2	1.93	0.84
1:I:42:GLU:O	1:I:43:ASN:HB2	1.77	0.84
1:C:89:GLN:HE22	1:C:107:TYR:HD2	1.25	0.84
1:A:43:ASN:O	1:A:44:LEU:HB2	1.76	0.83
1:L:106:LEU:HD22	1:L:120:VAL:HG23	1.58	0.83
1:B:42:GLU:H	1:B:277:LYS:HB3	1.43	0.83
1:D:18:GLN:HG2	1:D:22:ARG:HH12	1.42	0.83
1:K:275:ASN:HD22	1:K:277:LYS:HE2	1.43	0.83
1:A:274:LEU:O	1:A:275:ASN:HB2	1.76	0.83
1:B:16:GLN:HG2	1:B:20:ARG:HD2	1.59	0.83
1:C:119:VAL:HG11	1:C:268:ILE:HG22	1.61	0.83
1:A:93:PHE:H	1:A:104:PHE:HB2	1.43	0.83
1:G:81:SER:HB3	1:G:94:ARG:HE	1.40	0.83
1:H:81:SER:CB	1:H:94:ARG:HE	1.90	0.83
1:J:201:THR:HG21	1:L:183:PRO:HG3	1.60	0.83
1:K:278:VAL:HG23	1:K:279:LYS:N	1.93	0.83
1:E:44:LEU:N	1:E:44:LEU:HD12	1.93	0.83
1:G:188:HIS:O	1:G:190:ALA:N	2.10	0.83
1:E:49:ASN:HD21	1:E:51:SER:HB3	1.43	0.83
1:I:266:GLU:HA	1:I:269:ASN:HD22	1.42	0.83
1:L:69:PRO:O	1:L:70:VAL:HG13	1.79	0.83
1:A:93:PHE:HB3	1:A:104:PHE:CG	2.14	0.83
1:I:117:MET:CG	1:I:271:LEU:HD13	2.09	0.82
1:E:44:LEU:HG	1:E:277:LYS:NZ	1.94	0.82
1:J:89:GLN:CG	1:J:91:THR:H	1.92	0.82
1:L:117:MET:HE2	1:L:118:GLY:H	1.43	0.82
1:C:283:ASP:HB3	1:C:284:ILE:HD12	1.58	0.82
1:D:179:GLU:HG3	1:D:181:ASN:H	1.41	0.82
1:C:102:LYS:HG3	1:C:103:GLU:H	1.43	0.82
1:D:276:VAL:O	1:D:277:LYS:HG3	1.80	0.82
1:I:43:ASN:HB3	1:I:277:LYS:NZ	1.94	0.82
1:K:85:ASP:CG	1:K:89:GLN:HB3	2.04	0.82
1:E:182:ALA:HB1	1:E:183:PRO:HD2	1.60	0.82
1:H:256:VAL:HG11	1:I:33:SER:HB3	1.62	0.82
1:L:117:MET:HG2	1:L:271:LEU:HD21	1.60	0.82
1:C:163:ALA:HB3	1:D:187:ALA:HB2	1.61	0.82
1:E:11:SER:N	1:G:181:ASN:HD22	1.76	0.82
1:F:107:TYR:HB2	1:F:267:LYS:HD3	1.61	0.82
1:I:228:THR:HB	1:I:250:ILE:HD11	1.62	0.82
1:C:47:THR:CG2	1:C:73:TYR:H	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:81:SER:HB3	1:H:94:ARG:NE	1.94	0.81
1:G:148:ILE:O	1:G:152:GLN:HG3	1.80	0.81
1:I:262:GLU:HG2	1:I:278:VAL:HG22	1.60	0.81
1:B:43:ASN:N	1:B:277:LYS:NZ	2.29	0.81
1:D:43:ASN:H	1:D:277:LYS:CD	1.92	0.81
1:E:174:VAL:CG1	1:E:177:GLN:HE21	1.94	0.81
1:F:221:MET:HE2	1:F:225:LYS:HE2	1.62	0.81
1:J:117:MET:CG	1:J:118:GLY:H	1.87	0.81
1:K:250:ILE:HD13	1:K:250:ILE:N	1.95	0.81
1:A:148:ILE:HG23	1:A:207:VAL:HG13	1.62	0.81
1:C:63:VAL:CG1	1:C:121:ILE:HB	2.11	0.81
1:E:16:GLN:NE2	1:E:20:ARG:HH21	1.78	0.81
1:G:249:GLN:HA	1:G:252:SER:HB2	1.61	0.81
1:C:41:TRP:O	1:C:277:LYS:HB3	1.80	0.81
1:F:93:PHE:HB2	1:F:106:LEU:HD21	1.61	0.81
1:D:84:ARG:HB3	1:D:84:ARG:NH1	1.94	0.81
1:H:13:ASN:HD22	1:J:179:GLU:HG2	1.43	0.81
1:K:124:ASN:ND2	1:K:126:MET:H	1.77	0.81
1:B:62:TYR:HE2	1:B:80:LEU:HG	1.46	0.81
1:G:89:GLN:HE21	1:G:91:THR:HA	1.44	0.81
1:B:168:GLN:HE22	1:B:169:LEU:HG	1.45	0.81
1:C:268:ILE:HD12	1:C:275:ASN:HD22	1.46	0.81
1:D:44:LEU:HA	1:D:275:ASN:HD21	1.46	0.81
1:D:283:ASP:O	1:D:285:VAL:HG13	1.79	0.81
1:E:174:VAL:HG13	1:E:177:GLN:NE2	1.95	0.81
1:G:17:ARG:HG3	1:G:20:ARG:NH2	1.95	0.81
1:I:278:VAL:HG12	1:I:279:LYS:N	1.94	0.81
1:C:40:GLU:HG3	1:C:281:ARG:HH21	1.45	0.80
1:K:259:LYS:O	1:K:262:GLU:HG2	1.81	0.80
1:A:223:THR:HG23	1:A:250:ILE:HG12	1.64	0.80
1:C:117:MET:SD	1:C:271:LEU:HB2	2.21	0.80
1:G:148:ILE:HG23	1:G:207:VAL:HG13	1.64	0.80
1:L:201:THR:O	1:L:201:THR:HG22	1.80	0.80
1:B:174:VAL:O	1:B:177:GLN:HG2	1.81	0.80
1:I:42:GLU:C	1:I:277:LYS:HZ3	1.90	0.80
1:D:250:ILE:HD12	1:D:250:ILE:H	1.46	0.80
1:H:87:TYR:CD1	1:I:49:ASN:HB2	2.17	0.80
1:E:68:ASP:CG	1:E:71:ILE:H	1.88	0.80
1:E:81:SER:HA	1:E:84:ARG:NH2	1.96	0.80
1:J:258:LEU:CD1	1:J:278:VAL:HG12	2.12	0.80
1:L:274:LEU:HD23	1:L:275:ASN:N	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:205:TYR:CZ	1:J:207:VAL:HB	2.16	0.80
1:I:164:ASN:HB2	1:I:195:SER:HA	1.61	0.80
1:I:221:MET:HE2	1:I:225:LYS:HE3	1.64	0.80
1:F:248:GLU:OE2	1:G:227:GLN:HA	1.82	0.79
1:K:250:ILE:H	1:K:250:ILE:CD1	1.86	0.79
1:B:42:GLU:C	1:B:277:LYS:HG2	2.08	0.79
1:C:43:ASN:HB2	1:C:277:LYS:CD	2.12	0.79
1:I:45:PRO:HG2	1:I:48:ILE:HD13	1.64	0.79
1:H:40:GLU:HB2	1:H:281:ARG:HG2	1.63	0.79
1:K:106:LEU:HD22	1:K:120:VAL:HG23	1.63	0.79
1:D:124:ASN:HB2	1:D:256:VAL:O	1.83	0.79
1:D:163:ALA:HB3	1:E:187:ALA:CB	2.11	0.79
1:A:90:ALA:HB3	1:A:106:LEU:HD12	1.63	0.79
1:E:163:ALA:O	1:F:187:ALA:HA	1.83	0.79
1:G:15:ILE:O	1:G:18:GLN:HB2	1.83	0.79
1:B:78:GLY:HA3	1:B:94:ARG:O	1.82	0.79
1:C:107:TYR:CZ	1:C:109:TYR:HB2	2.18	0.79
1:C:223:THR:HG23	1:C:250:ILE:HD13	1.63	0.79
1:L:41:TRP:HE3	1:L:277:LYS:HG3	1.48	0.79
1:D:68:ASP:OD2	1:D:71:ILE:HG12	1.83	0.79
1:K:110:ARG:HG3	1:K:111:ASP:OD1	1.83	0.79
1:K:213:GLN:HE22	1:L:211:ASN:CG	1.90	0.79
1:F:277:LYS:NZ	1:F:277:LYS:N	2.31	0.78
1:L:271:LEU:O	1:L:272:TYR:HB2	1.84	0.78
1:C:40:GLU:HB2	1:C:281:ARG:NE	1.98	0.78
1:C:123:ASN:ND2	1:C:261:ARG:HH22	1.81	0.78
1:C:274:LEU:HD23	1:C:276:VAL:N	1.96	0.78
1:G:222:MET:HB3	1:G:227:GLN:HB2	1.63	0.78
1:D:197:GLU:HG2	1:D:199:PHE:CZ	2.18	0.78
1:G:262:GLU:C	1:G:264:ALA:H	1.91	0.78
1:B:249:GLN:O	1:B:253:SER:HB2	1.83	0.78
1:B:108:ASN:HD21	1:B:119:VAL:HG11	1.47	0.78
1:C:42:GLU:C	1:C:277:LYS:NZ	2.41	0.78
1:G:67:LYS:HA	1:G:73:TYR:HA	1.66	0.78
1:I:168:GLN:HB3	1:I:188:HIS:CE1	2.18	0.78
1:I:271:LEU:C	1:I:273:GLY:H	1.90	0.78
1:A:115:GLU:O	1:A:116:ASP:HB3	1.84	0.78
1:G:19:LYS:HG3	1:G:22:ARG:HH12	1.49	0.78
1:H:278:VAL:HG23	1:H:279:LYS:H	1.49	0.78
1:K:275:ASN:O	1:K:277:LYS:HD3	1.84	0.78
1:L:57:ILE:HG12	1:L:63:VAL:HG21	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:85:ASP:HB3	1:G:89:GLN:N	1.97	0.78
1:J:172:LYS:HE3	1:K:179:GLU:OE2	1.84	0.78
1:L:73:TYR:HE2	1:L:271:LEU:HD13	1.47	0.78
1:B:39:PHE:HA	1:B:279:LYS:O	1.83	0.78
1:D:258:LEU:HA	1:D:261:ARG:HD2	1.65	0.78
1:D:284:ILE:HD12	1:D:284:ILE:N	1.98	0.78
1:E:28:LEU:HD11	1:E:135:GLU:HG2	1.66	0.78
1:J:262:GLU:HA	1:J:278:VAL:HG21	1.66	0.78
1:K:269:ASN:HD21	1:K:275:ASN:N	1.82	0.78
1:C:257:PHE:HB3	1:C:261:ARG:NH2	1.97	0.78
1:H:43:ASN:HB3	1:H:277:LYS:HZ1	1.49	0.78
1:B:53:LEU:HD11	1:B:121:ILE:HD12	1.65	0.77
1:C:271:LEU:HD12	1:C:271:LEU:O	1.85	0.77
1:G:80:LEU:HB3	1:G:90:ALA:CB	2.15	0.77
1:H:264:ALA:HA	1:H:267:LYS:HG3	1.65	0.77
1:L:15:ILE:HA	1:L:18:GLN:NE2	1.99	0.77
1:D:87:TYR:OH	1:E:48:ILE:HA	1.85	0.77
1:H:124:ASN:C	1:H:126:MET:H	1.90	0.77
1:E:65:PHE:CD2	1:E:268:ILE:HD11	2.19	0.77
1:E:158:PRO:O	1:E:159:VAL:HB	1.85	0.77
1:G:170:SER:O	1:G:174:VAL:HG23	1.84	0.77
1:I:74:ILE:HG12	1:I:75:ALA:N	2.00	0.77
1:L:274:LEU:HD23	1:L:276:VAL:N	1.99	0.77
1:D:169:LEU:HB3	1:D:186:PHE:CE1	2.20	0.77
1:E:84:ARG:HB3	1:E:88:ASN:C	2.10	0.77
1:H:87:TYR:OH	1:I:48:ILE:HA	1.84	0.77
1:B:117:MET:HB3	1:B:271:LEU:HD22	1.67	0.77
1:A:41:TRP:C	1:A:277:LYS:HA	2.09	0.77
1:D:43:ASN:HB2	1:D:277:LYS:HE2	1.65	0.77
1:H:86:VAL:N	1:I:99:VAL:HG11	2.00	0.77
1:C:110:ARG:C	1:C:112:MET:H	1.92	0.77
1:C:174:VAL:O	1:C:177:GLN:HB3	1.85	0.77
1:D:117:MET:HG3	1:D:271:LEU:CD1	2.14	0.77
1:D:279:LYS:HZ2	1:D:279:LYS:HB3	1.49	0.77
1:H:123:ASN:HD22	1:H:261:ARG:NH2	1.83	0.77
1:J:67:LYS:HZ3	1:J:272:TYR:HE2	1.33	0.77
1:H:11:SER:N	1:J:181:ASN:HD22	1.81	0.77
1:K:67:LYS:CG	1:K:117:MET:HG2	2.15	0.77
1:A:143:GLU:O	1:A:147:ILE:HG13	1.84	0.77
1:B:44:LEU:HA	1:B:275:ASN:ND2	1.99	0.77
1:B:171:LEU:O	1:B:172:LYS:HB3	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:277:LYS:O	1:F:279:LYS:N	2.18	0.77
1:J:67:LYS:HD3	1:J:117:MET:SD	2.26	0.77
1:L:168:GLN:HE22	1:L:169:LEU:HG	1.48	0.77
1:B:41:TRP:C	1:B:277:LYS:HZ2	1.93	0.76
1:D:67:LYS:HB2	1:D:117:MET:HE2	1.67	0.76
1:C:89:GLN:HG2	1:C:90:ALA:O	1.84	0.76
1:D:81:SER:HB3	1:D:94:ARG:NH2	1.99	0.76
1:E:165:ASP:OD1	1:E:191:LEU:HA	1.84	0.76
1:I:259:LYS:O	1:I:263:GLU:HG2	1.86	0.76
1:J:67:LYS:NZ	1:J:272:TYR:HE2	1.82	0.76
1:C:201:THR:CG2	1:D:159:VAL:HG11	2.16	0.76
1:E:158:PRO:HB2	1:E:200:LYS:NZ	2.00	0.76
1:D:89:GLN:HG2	1:D:90:ALA:N	1.99	0.76
1:J:164:ASN:HB3	1:J:195:SER:HA	1.66	0.76
1:A:226:LEU:HD11	1:A:283:ASP:OD1	1.85	0.76
1:B:91:THR:HG22	1:B:92:VAL:HG23	1.68	0.76
1:F:277:LYS:NZ	1:F:278:VAL:N	2.34	0.76
1:I:68:ASP:OD1	1:I:69:PRO:HD2	1.85	0.76
1:I:100:TYR:OH	1:I:102:LYS:HD2	1.85	0.76
1:I:106:LEU:HD22	1:I:120:VAL:HG23	1.67	0.76
1:A:117:MET:HE2	1:A:271:LEU:HB3	1.66	0.76
1:D:279:LYS:HB3	1:D:279:LYS:NZ	2.01	0.76
1:G:274:LEU:O	1:G:275:ASN:HB2	1.83	0.76
1:J:177:GLN:O	1:J:179:GLU:N	2.18	0.76
1:A:20:ARG:HG2	1:A:146:GLU:HG3	1.68	0.76
1:G:90:ALA:O	1:G:92:VAL:N	2.18	0.76
1:J:156:LYS:O	1:J:157:THR:HG23	1.86	0.76
1:K:87:TYR:O	1:K:88:ASN:HB2	1.85	0.76
1:B:85:ASP:CG	1:B:89:GLN:HB3	2.11	0.76
1:E:53:LEU:HB2	1:E:63:VAL:HG21	1.67	0.76
1:G:41:TRP:CA	1:G:277:LYS:HB3	2.16	0.76
1:I:201:THR:O	1:I:201:THR:HG22	1.85	0.76
1:J:108:ASN:CG	1:J:270:GLU:HB2	2.11	0.76
1:C:259:LYS:HG3	1:D:281:ARG:NH2	2.00	0.76
1:F:277:LYS:HZ2	1:F:277:LYS:CA	1.99	0.76
1:H:82:GLY:HA3	1:H:91:THR:HB	1.67	0.76
1:I:162:ARG:HH12	1:J:193:SER:HA	1.48	0.76
1:I:163:ALA:HB3	1:J:187:ALA:CB	2.15	0.76
1:J:110:ARG:HD3	1:K:46:PRO:HG3	1.68	0.76
1:F:21:ASN:O	1:F:25:ILE:HG13	1.85	0.76
1:G:38:LEU:HD11	1:G:225:LYS:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:117:MET:HG2	1:L:271:LEU:CD2	2.15	0.76
1:C:106:LEU:HD22	1:C:120:VAL:HG13	1.67	0.75
1:J:108:ASN:CG	1:J:271:LEU:HB2	2.11	0.75
1:H:123:ASN:ND2	1:H:261:ARG:HH22	1.84	0.75
1:K:83:GLN:HE21	1:K:84:ARG:H	1.34	0.75
1:L:278:VAL:HG12	1:L:279:LYS:N	2.00	0.75
1:A:14:GLU:HA	1:A:17:ARG:HG3	1.68	0.75
1:C:222:MET:HB3	1:C:227:GLN:CB	2.16	0.75
1:D:248:GLU:O	1:D:252:SER:HB2	1.86	0.75
1:A:28:LEU:O	1:A:32:GLN:HG3	1.86	0.75
1:A:41:TRP:O	1:A:277:LYS:HA	1.87	0.75
1:A:276:VAL:HG13	1:A:277:LYS:H	1.50	0.75
1:F:163:ALA:HB3	1:G:187:ALA:HB2	1.68	0.75
1:H:74:ILE:HD12	1:H:74:ILE:N	2.01	0.75
1:B:62:TYR:CE2	1:B:80:LEU:HG	2.20	0.75
1:E:84:ARG:HH11	1:E:90:ALA:HA	1.51	0.75
1:E:263:GLU:HG2	1:E:267:LYS:HZ2	1.51	0.75
1:F:117:MET:HE2	1:F:271:LEU:HD11	1.68	0.75
1:K:37:GLN:O	1:K:281:ARG:HD2	1.86	0.75
1:A:163:ALA:HB3	1:B:187:ALA:CB	2.15	0.75
1:B:42:GLU:CA	1:B:277:LYS:HG2	2.16	0.75
1:C:171:LEU:C	1:C:173:GLN:H	1.94	0.75
1:E:172:LYS:HB2	1:F:185:ILE:HD12	1.68	0.75
1:H:123:ASN:ND2	1:H:261:ARG:NH2	2.35	0.75
1:A:151:ASN:O	1:A:154:ALA:HB3	1.87	0.75
1:A:165:ASP:HB2	1:A:195:SER:HB2	1.69	0.75
1:C:146:GLU:O	1:C:150:VAL:HG23	1.86	0.75
1:E:32:GLN:OE1	1:E:134:LEU:HD12	1.87	0.75
1:F:38:LEU:HD23	1:F:38:LEU:H	1.52	0.75
1:H:55:LYS:HD3	1:H:59:GLN:NE2	2.02	0.75
1:J:77:ASN:H	1:J:77:ASN:ND2	1.83	0.75
1:L:164:ASN:HB3	1:L:195:SER:HA	1.69	0.75
1:E:109:TYR:HB2	1:E:112:MET:CG	2.17	0.75
1:G:19:LYS:HA	1:G:22:ARG:CZ	2.17	0.75
1:I:194:ASP:OD1	1:J:193:SER:HB3	1.87	0.75
1:I:252:SER:HB2	1:J:37:GLN:OE1	1.87	0.75
1:L:277:LYS:HA	1:L:277:LYS:NZ	2.02	0.75
1:A:40:GLU:HG2	1:A:279:LYS:NZ	2.01	0.75
1:A:93:PHE:HB2	1:A:106:LEU:HD21	1.69	0.75
1:B:44:LEU:HD23	1:B:275:ASN:ND2	2.02	0.75
1:K:283:ASP:CG	1:K:284:ILE:H	1.94	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:258:LEU:HD22	1:B:262:GLU:HG3	1.68	0.74
1:C:168:GLN:HB3	1:C:188:HIS:CD2	2.22	0.74
1:F:47:THR:HG21	1:F:73:TYR:H	1.52	0.74
1:G:124:ASN:C	1:G:126:MET:H	1.91	0.74
1:J:222:MET:HB3	1:J:227:GLN:CB	2.16	0.74
1:C:255:THR:HA	1:C:258:LEU:HB3	1.70	0.74
1:E:174:VAL:O	1:E:177:GLN:HG3	1.87	0.74
1:E:201:THR:O	1:E:201:THR:HG22	1.85	0.74
1:F:222:MET:HB3	1:F:227:GLN:CB	2.16	0.74
1:G:47:THR:HG21	1:G:73:TYR:O	1.85	0.74
1:G:269:ASN:HD21	1:G:275:ASN:HB3	1.50	0.74
1:J:41:TRP:HB3	1:J:277:LYS:HE2	1.68	0.74
1:K:42:GLU:O	1:K:43:ASN:HB2	1.87	0.74
1:K:226:LEU:C	1:K:227:GLN:HG2	2.11	0.74
1:L:98:PRO:HG2	1:L:99:VAL:HG23	1.70	0.74
1:F:68:ASP:HB3	1:F:69:PRO:HD2	1.68	0.74
1:G:105:LYS:NZ	1:G:105:LYS:H	1.84	0.74
1:B:103:GLU:HG2	1:B:104:PHE:N	2.03	0.74
1:B:201:THR:O	1:B:201:THR:HG22	1.88	0.74
1:H:43:ASN:HB3	1:H:277:LYS:NZ	2.03	0.74
1:C:41:TRP:C	1:C:277:LYS:HZ2	1.95	0.74
1:F:13:ASN:ND2	1:H:179:GLU:HA	2.03	0.74
1:H:158:PRO:O	1:H:159:VAL:HB	1.86	0.74
1:I:59:GLN:O	1:I:129:PRO:HB3	1.86	0.74
1:I:124:ASN:ND2	1:I:128:PHE:H	1.85	0.74
1:K:21:ASN:O	1:K:25:ILE:HG13	1.87	0.74
1:K:147:ILE:HG12	1:L:156:LYS:HD2	1.69	0.74
1:D:42:GLU:HB3	1:D:277:LYS:CD	2.18	0.74
1:D:197:GLU:HG2	1:D:199:PHE:CE1	2.23	0.74
1:H:152:GLN:O	1:H:155:GLN:HG2	1.88	0.74
1:F:277:LYS:NZ	1:F:277:LYS:H	1.85	0.74
1:I:56:SER:HB3	1:I:63:VAL:CG2	2.16	0.74
1:J:60:PHE:HD1	1:J:60:PHE:O	1.71	0.74
1:K:90:ALA:O	1:K:91:THR:HB	1.88	0.74
1:G:109:TYR:HB2	1:G:112:MET:HB2	1.68	0.74
1:G:162:ARG:HH21	1:G:164:ASN:HB2	1.52	0.74
1:E:44:LEU:HD12	1:E:44:LEU:H	1.52	0.74
1:A:274:LEU:HD13	1:A:275:ASN:N	2.02	0.74
1:B:181:ASN:O	1:B:182:ALA:HB2	1.86	0.74
1:D:171:LEU:HD22	1:D:175:TYR:CE1	2.23	0.74
1:D:260:SER:O	1:D:263:GLU:N	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:284:ILE:HD12	1:D:284:ILE:H	1.53	0.74
1:I:282:TYR:CG	1:I:283:ASP:N	2.56	0.74
1:B:168:GLN:HB3	1:B:188:HIS:NE2	2.03	0.73
1:L:205:TYR:CZ	1:L:207:VAL:HB	2.23	0.73
1:A:187:ALA:CB	1:L:163:ALA:HB3	2.17	0.73
1:C:53:LEU:O	1:C:56:SER:HB2	1.88	0.73
1:D:188:HIS:O	1:D:189:GLU:HB3	1.86	0.73
1:E:81:SER:C	1:E:84:ARG:HH12	1.96	0.73
1:J:171:LEU:O	1:J:173:GLN:N	2.20	0.73
1:E:81:SER:CA	1:E:84:ARG:HH22	2.00	0.73
1:L:117:MET:CE	1:L:118:GLY:H	2.00	0.73
1:E:38:LEU:O	1:E:39:PHE:HB2	1.89	0.73
1:I:62:TYR:HE2	1:I:79:ALA:HA	1.52	0.73
1:K:259:LYS:HD2	1:L:281:ARG:NH1	2.02	0.73
1:C:168:GLN:HB3	1:C:188:HIS:NE2	2.04	0.73
1:H:168:GLN:HB3	1:H:188:HIS:CD2	2.23	0.73
1:C:133:THR:HG21	1:C:224:PHE:CE2	2.23	0.73
1:D:23:TRP:CE2	1:D:145:LYS:HE3	2.23	0.73
1:F:225:LYS:NZ	1:F:225:LYS:HB3	2.04	0.73
1:C:55:LYS:HG2	1:C:59:GLN:OE1	1.89	0.73
1:H:109:TYR:OH	1:I:46:PRO:HB2	1.87	0.73
1:I:86:VAL:HG12	1:J:99:VAL:HG12	1.69	0.73
1:A:248:GLU:O	1:A:249:GLN:HB3	1.88	0.73
1:C:37:GLN:O	1:C:281:ARG:HD2	1.89	0.73
1:J:278:VAL:O	1:J:280:PHE:N	2.22	0.73
1:L:35:ALA:O	1:L:38:LEU:HG	1.89	0.73
1:C:47:THR:HG21	1:C:73:TYR:N	2.01	0.73
1:J:44:LEU:HG	1:J:277:LYS:CE	2.19	0.73
1:A:169:LEU:HD22	1:A:186:PHE:HE1	1.54	0.73
1:B:90:ALA:HB3	1:B:106:LEU:HD13	1.69	0.73
1:B:188:HIS:O	1:B:189:GLU:HB3	1.89	0.73
1:K:86:VAL:HG13	1:L:99:VAL:CG1	2.18	0.73
1:L:39:PHE:CZ	1:L:257:PHE:HB2	2.24	0.73
1:A:277:LYS:HG3	1:A:278:VAL:HG23	1.71	0.72
1:B:125:ASP:O	1:B:126:MET:HB2	1.87	0.72
1:E:263:GLU:HG2	1:E:267:LYS:NZ	2.04	0.72
1:J:91:THR:C	1:J:106:LEU:HD12	2.13	0.72
1:E:11:SER:N	1:G:179:GLU:HB2	2.04	0.72
1:C:263:GLU:O	1:C:267:LYS:HG3	1.88	0.72
1:F:106:LEU:HA	1:F:118:GLY:HA3	1.71	0.72
1:K:62:TYR:O	1:K:63:VAL:HG12	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:42:GLU:C	1:L:277:LYS:HZ1	1.98	0.72
1:L:41:TRP:HA	1:L:277:LYS:HB3	1.72	0.72
1:D:172:LYS:HB2	1:E:185:ILE:HD12	1.68	0.72
1:G:17:ARG:O	1:G:21:ASN:HB2	1.89	0.72
1:I:271:LEU:HG	1:I:271:LEU:O	1.89	0.72
1:J:77:ASN:N	1:J:77:ASN:ND2	2.34	0.72
1:A:167:ASN:HB3	1:A:188:HIS:CD2	2.24	0.72
1:E:261:ARG:HG3	1:E:261:ARG:NH1	1.91	0.72
1:K:41:TRP:HA	1:K:277:LYS:HB3	1.71	0.72
1:A:117:MET:CG	1:A:118:GLY:H	1.99	0.72
1:A:148:ILE:O	1:A:152:GLN:HG3	1.90	0.72
1:D:226:LEU:HD22	1:D:280:PHE:CD2	2.25	0.72
1:K:117:MET:HG3	1:K:118:GLY:N	2.04	0.72
1:G:81:SER:HB3	1:G:94:ARG:NE	2.05	0.72
1:J:188:HIS:CD2	1:J:190:ALA:HB3	2.25	0.72
1:A:41:TRP:CE3	1:A:277:LYS:HB2	2.25	0.72
1:B:38:LEU:HD21	1:B:227:GLN:HE22	1.53	0.72
1:F:265:CYS:HA	1:F:268:ILE:HG22	1.72	0.72
1:B:125:ASP:O	1:B:126:MET:HE2	1.90	0.72
1:B:269:ASN:HD21	1:B:275:ASN:N	1.87	0.72
1:C:13:ASN:HA	1:C:16:GLN:HE21	1.54	0.72
1:D:95:ALA:HB3	1:D:102:LYS:H	1.55	0.72
1:D:253:SER:O	1:D:256:VAL:HB	1.90	0.72
1:I:186:PHE:CD2	1:I:196:ILE:HD11	2.25	0.72
1:D:267:LYS:HA	1:D:270:GLU:OE1	1.90	0.71
1:G:177:GLN:HG2	1:G:179:GLU:CG	2.19	0.71
1:K:67:LYS:HD3	1:K:117:MET:HE3	1.71	0.71
1:A:20:ARG:HG2	1:A:146:GLU:CG	2.20	0.71
1:C:171:LEU:O	1:C:173:GLN:N	2.22	0.71
1:J:226:LEU:HD22	1:J:280:PHE:CE2	2.25	0.71
1:E:66:TYR:HB2	1:E:104:PHE:CE1	2.24	0.71
1:F:41:TRP:CZ3	1:F:265:CYS:HB3	2.24	0.71
1:K:159:VAL:CG1	1:L:183:PRO:HB3	2.20	0.71
1:B:205:TYR:CZ	1:B:207:VAL:HB	2.24	0.71
1:G:168:GLN:OE1	1:G:169:LEU:HG	1.90	0.71
1:I:171:LEU:HB3	1:J:185:ILE:HD13	1.71	0.71
1:K:43:ASN:HB3	1:K:277:LYS:CD	2.20	0.71
1:L:268:ILE:O	1:L:271:LEU:HB2	1.91	0.71
1:F:15:ILE:HA	1:F:18:GLN:NE2	1.97	0.71
1:F:115:GLU:O	1:F:116:ASP:HB3	1.88	0.71
1:F:195:SER:O	1:F:196:ILE:HG13	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:162:ARG:NE	1:I:164:ASN:HD21	1.89	0.71
1:J:86:VAL:HA	1:K:99:VAL:HG11	1.73	0.71
1:J:201:THR:O	1:J:201:THR:HG22	1.88	0.71
1:C:117:MET:HE1	1:C:271:LEU:HD13	1.73	0.71
1:E:53:LEU:HA	1:E:63:VAL:HG21	1.73	0.71
1:E:84:ARG:HB3	1:E:88:ASN:O	1.90	0.71
1:I:273:GLY:O	1:I:274:LEU:HG	1.91	0.71
1:J:59:GLN:O	1:J:60:PHE:C	2.33	0.71
1:K:189:GLU:C	1:K:191:LEU:H	1.99	0.71
1:B:126:MET:O	1:B:128:PHE:N	2.21	0.71
1:E:72:SER:O	1:E:73:TYR:HB2	1.90	0.71
1:H:60:PHE:O	1:H:62:TYR:N	2.22	0.71
1:G:269:ASN:HD22	1:G:269:ASN:N	1.87	0.71
1:A:52:PHE:O	1:A:56:SER:HB2	1.89	0.71
1:A:158:PRO:O	1:A:159:VAL:HB	1.87	0.71
1:C:269:ASN:HD21	1:C:276:VAL:HG21	1.56	0.71
1:E:42:GLU:C	1:E:277:LYS:HZ3	1.98	0.71
1:H:97:SER:CB	1:H:98:PRO:HD2	2.16	0.71
1:J:163:ALA:HB3	1:K:187:ALA:CB	2.21	0.71
1:A:13:ASN:O	1:A:17:ARG:HG3	1.91	0.70
1:A:105:LYS:HD2	1:A:116:ASP:OD2	1.91	0.70
1:A:227:GLN:O	1:A:228:THR:O	2.08	0.70
1:D:97:SER:C	1:D:99:VAL:H	1.97	0.70
1:D:107:TYR:CB	1:D:267:LYS:HD3	2.21	0.70
1:F:48:ILE:HD12	1:F:48:ILE:O	1.91	0.70
1:G:121:ILE:HD11	1:G:268:ILE:HD11	1.73	0.70
1:I:248:GLU:OE2	1:J:226:LEU:HG	1.89	0.70
1:L:69:PRO:O	1:L:70:VAL:HG22	1.90	0.70
1:B:60:PHE:C	1:B:62:TYR:H	1.98	0.70
1:B:163:ALA:HB3	1:C:187:ALA:CB	2.20	0.70
1:E:49:ASN:ND2	1:E:51:SER:HB3	2.05	0.70
1:J:48:ILE:HD11	1:J:73:TYR:CB	2.20	0.70
1:K:105:LYS:HZ2	1:K:114:GLU:HG2	1.54	0.70
1:C:108:ASN:HD22	1:C:108:ASN:H	1.37	0.70
1:E:78:GLY:O	1:E:94:ARG:HB2	1.91	0.70
1:G:19:LYS:HA	1:G:22:ARG:NH1	2.06	0.70
1:L:171:LEU:O	1:L:173:GLN:N	2.21	0.70
1:A:49:ASN:HB2	1:L:87:TYR:CE1	2.27	0.70
1:A:274:LEU:HD13	1:A:275:ASN:H	1.57	0.70
1:F:67:LYS:HD3	1:F:73:TYR:CZ	2.27	0.70
1:F:117:MET:HE1	1:F:271:LEU:HD21	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:108:ASN:HA	1:K:112:MET:CG	2.22	0.70
1:K:171:LEU:HB3	1:L:185:ILE:HD13	1.73	0.70
1:L:106:LEU:O	1:L:107:TYR:HB3	1.91	0.70
1:G:249:GLN:NE2	1:H:222:MET:HE2	2.06	0.70
1:A:226:LEU:HA	1:A:250:ILE:HG23	1.73	0.70
1:E:275:ASN:O	1:E:277:LYS:HD3	1.92	0.70
1:G:55:LYS:HB3	1:G:59:GLN:NE2	2.07	0.70
1:G:177:GLN:O	1:G:179:GLU:N	2.24	0.70
1:K:201:THR:O	1:L:159:VAL:HG21	1.90	0.70
1:E:126:MET:O	1:E:128:PHE:N	2.24	0.70
1:G:28:LEU:O	1:G:32:GLN:HG3	1.91	0.70
1:G:85:ASP:CB	1:G:89:GLN:HB3	2.22	0.70
1:G:175:TYR:C	1:G:177:GLN:H	1.96	0.70
1:J:41:TRP:HE3	1:J:277:LYS:HD3	1.56	0.70
1:H:107:TYR:HD1	1:H:267:LYS:HD3	1.55	0.70
1:K:188:HIS:O	1:K:189:GLU:CB	2.39	0.70
1:C:227:GLN:OE1	1:C:227:GLN:HA	1.91	0.70
1:E:109:TYR:HB2	1:E:112:MET:HG2	1.73	0.70
1:E:117:MET:CB	1:E:271:LEU:HD13	2.21	0.70
1:I:44:LEU:HD22	1:I:45:PRO:HD2	1.74	0.70
1:J:41:TRP:CE3	1:J:277:LYS:HD3	2.27	0.70
1:B:45:PRO:HB2	1:B:47:THR:HG22	1.74	0.70
1:J:136:LEU:CD1	1:K:22:ARG:HD2	2.22	0.70
1:C:41:TRP:O	1:C:42:GLU:HB2	1.92	0.69
1:E:40:GLU:O	1:E:279:LYS:HB2	1.91	0.69
1:H:74:ILE:HG22	1:H:75:ALA:N	2.07	0.69
1:K:171:LEU:HD22	1:K:175:TYR:HE1	1.55	0.69
1:A:41:TRP:O	1:A:42:GLU:HB2	1.92	0.69
1:B:60:PHE:O	1:B:62:TYR:N	2.22	0.69
1:E:205:TYR:CZ	1:E:207:VAL:HB	2.27	0.69
1:G:79:ALA:O	1:G:94:ARG:HG3	1.91	0.69
1:H:85:ASP:C	1:I:99:VAL:HG21	2.17	0.69
1:K:119:VAL:HG12	1:K:120:VAL:N	2.05	0.69
1:F:130:THR:HG22	1:F:134:LEU:HG	1.74	0.69
1:G:221:MET:HE2	1:G:225:LYS:HE2	1.74	0.69
1:K:97:SER:OG	1:K:99:VAL:HG12	1.93	0.69
1:B:148:ILE:HG23	1:B:207:VAL:HG13	1.75	0.69
1:C:268:ILE:HB	1:C:271:LEU:HD23	1.74	0.69
1:D:120:VAL:HG21	1:D:122:TYR:CE1	2.27	0.69
1:F:221:MET:CE	1:F:225:LYS:HE2	2.22	0.69
1:L:109:TYR:HB2	1:L:112:MET:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:17:ARG:O	1:C:21:ASN:HB2	1.91	0.69
1:D:261:ARG:HB3	1:D:278:VAL:HG11	1.73	0.69
1:F:172:LYS:O	1:F:176:ASN:OD1	2.11	0.69
1:G:16:GLN:NE2	1:G:20:ARG:HG3	2.07	0.69
1:L:213:GLN:O	1:L:217:VAL:HG23	1.90	0.69
1:A:270:GLU:O	1:A:271:LEU:HD22	1.92	0.69
1:C:13:ASN:HD22	1:C:16:GLN:HB3	1.57	0.69
1:C:59:GLN:O	1:C:60:PHE:CD1	2.46	0.69
1:D:274:LEU:HD13	1:D:275:ASN:N	2.08	0.69
1:E:221:MET:HE2	1:E:225:LYS:HD3	1.75	0.69
1:L:255:THR:HG22	1:L:259:LYS:HG3	1.75	0.69
1:L:258:LEU:CD2	1:L:262:GLU:HG3	2.22	0.69
1:A:275:ASN:O	1:A:277:LYS:HG2	1.92	0.69
1:D:274:LEU:O	1:D:275:ASN:HB2	1.90	0.69
1:E:117:MET:HB2	1:E:271:LEU:HD13	1.73	0.69
1:I:87:TYR:O	1:I:88:ASN:HB2	1.91	0.69
1:J:213:GLN:HA	1:J:213:GLN:NE2	2.07	0.69
1:A:172:LYS:HZ1	1:L:11:SER:HB3	1.57	0.69
1:A:172:LYS:H	1:A:175:TYR:HD1	1.40	0.69
1:B:269:ASN:OD1	1:B:276:VAL:HG23	1.92	0.69
1:E:86:VAL:HG12	1:E:87:TYR:N	2.07	0.69
1:F:277:LYS:HZ2	1:F:278:VAL:H	1.39	0.69
1:G:179:GLU:OE2	1:G:181:ASN:HB2	1.93	0.69
1:I:43:ASN:HB3	1:I:277:LYS:HZ1	1.58	0.69
1:K:102:LYS:HG3	1:K:103:GLU:N	2.08	0.69
1:D:81:SER:HB3	1:D:94:ARG:CZ	2.23	0.69
1:D:125:ASP:OD2	1:E:33:SER:HB2	1.93	0.69
1:E:40:GLU:HG3	1:E:281:ARG:NH2	2.08	0.69
1:E:71:ILE:CG2	1:E:74:ILE:HB	2.23	0.69
1:F:74:ILE:HG21	1:F:100:TYR:CE2	2.28	0.69
1:G:169:LEU:HD12	1:G:187:ALA:O	1.93	0.69
1:J:151:ASN:OD1	1:J:207:VAL:HG23	1.93	0.69
1:K:247:ASP:N	1:K:250:ILE:HD11	2.08	0.69
1:L:179:GLU:HG3	1:L:181:ASN:H	1.57	0.69
1:H:182:ALA:HB1	1:H:183:PRO:CD	2.22	0.69
1:K:125:ASP:OD1	1:K:256:VAL:HG13	1.93	0.69
1:D:201:THR:O	1:D:201:THR:HG22	1.91	0.68
1:F:171:LEU:HB3	1:G:185:ILE:HD13	1.73	0.68
1:K:222:MET:HB3	1:K:227:GLN:CB	2.22	0.68
1:E:27:TYR:O	1:E:31:LEU:HG	1.93	0.68
1:E:62:TYR:O	1:E:63:VAL:HG12	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:265:CYS:HA	1:F:268:ILE:CG2	2.23	0.68
1:G:165:ASP:C	1:G:167:ASN:H	1.99	0.68
1:H:259:LYS:HD2	1:I:281:ARG:NH1	2.09	0.68
1:A:168:GLN:HE21	1:A:168:GLN:CA	2.06	0.68
1:D:107:TYR:HD1	1:D:108:ASN:N	1.92	0.68
1:D:222:MET:HB3	1:D:227:GLN:CB	2.23	0.68
1:I:201:THR:HG21	1:K:183:PRO:HG3	1.75	0.68
1:I:258:LEU:CD2	1:I:278:VAL:HG13	2.23	0.68
1:K:259:LYS:HD2	1:L:281:ARG:HH12	1.57	0.68
1:F:47:THR:CG2	1:F:72:SER:HB3	2.22	0.68
1:F:260:SER:O	1:F:263:GLU:HG2	1.94	0.68
1:G:45:PRO:HG2	1:G:48:ILE:HG12	1.76	0.68
1:H:108:ASN:CG	1:H:271:LEU:HD11	2.19	0.68
1:L:203:ALA:O	1:L:204:PRO:C	2.37	0.68
1:B:179:GLU:HB3	1:L:11:SER:HA	1.75	0.68
1:F:42:GLU:HB3	1:F:277:LYS:HD2	1.76	0.68
1:I:117:MET:SD	1:I:271:LEU:HD22	2.34	0.68
1:I:150:VAL:HG11	1:J:156:LYS:HG3	1.75	0.68
1:K:109:TYR:C	1:K:111:ASP:N	2.51	0.68
1:C:17:ARG:N	1:C:17:ARG:HD2	2.08	0.68
1:E:44:LEU:CG	1:E:277:LYS:HZ1	2.03	0.68
1:J:45:PRO:HG2	1:J:48:ILE:HD13	1.75	0.68
1:K:43:ASN:HD22	1:K:275:ASN:HA	1.58	0.68
1:C:98:PRO:O	1:C:99:VAL:HB	1.94	0.68
1:E:158:PRO:HB2	1:E:200:LYS:HZ1	1.56	0.68
1:J:86:VAL:HG12	1:K:99:VAL:HG22	1.74	0.68
1:K:105:LYS:HZ3	1:K:114:GLU:HG2	1.58	0.68
1:A:275:ASN:HB3	1:A:277:LYS:NZ	2.09	0.68
1:D:179:GLU:HG3	1:D:181:ASN:N	2.08	0.68
1:J:44:LEU:HG	1:J:277:LYS:NZ	2.09	0.68
1:K:124:ASN:ND2	1:K:126:MET:O	2.27	0.68
1:C:107:TYR:CE2	1:C:109:TYR:HB2	2.29	0.68
1:C:171:LEU:HB2	1:D:185:ILE:HD13	1.76	0.68
1:E:71:ILE:HG21	1:E:74:ILE:HB	1.76	0.68
1:H:40:GLU:HG2	1:H:42:GLU:OE2	1.94	0.68
1:C:226:LEU:O	1:C:227:GLN:HG2	1.93	0.68
1:F:259:LYS:HG2	1:F:263:GLU:OE2	1.94	0.68
1:G:85:ASP:OD2	1:G:87:TYR:N	2.24	0.68
1:I:249:GLN:HB3	1:J:222:MET:CE	2.24	0.68
1:L:117:MET:CE	1:L:271:LEU:HG	2.08	0.68
1:L:171:LEU:HD22	1:L:175:TYR:CE1	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:55:LYS:O	1:C:59:GLN:HG3	1.94	0.67
1:C:269:ASN:HD21	1:C:276:VAL:CG2	2.06	0.67
1:D:263:GLU:O	1:D:264:ALA:C	2.35	0.67
1:E:38:LEU:HD11	1:E:225:LYS:HZ3	1.58	0.67
1:E:170:SER:O	1:E:173:GLN:HB2	1.95	0.67
1:I:275:ASN:HB2	1:I:277:LYS:CE	2.11	0.67
1:J:275:ASN:CG	1:J:277:LYS:HD2	2.19	0.67
1:K:107:TYR:CZ	1:K:112:MET:HE1	2.28	0.67
1:B:108:ASN:ND2	1:B:267:LYS:HB3	2.09	0.67
1:B:213:GLN:HE22	1:C:211:ASN:CG	2.02	0.67
1:D:222:MET:HB3	1:D:227:GLN:HB2	1.75	0.67
1:G:174:VAL:O	1:G:177:GLN:HB2	1.94	0.67
1:C:15:ILE:HA	1:C:18:GLN:HE21	1.59	0.67
1:H:91:THR:HG22	1:H:92:VAL:HG23	1.73	0.67
1:G:66:TYR:CE2	1:G:68:ASP:HA	2.29	0.67
1:C:63:VAL:HG11	1:C:121:ILE:HB	1.77	0.67
1:D:66:TYR:CE1	1:D:116:ASP:HA	2.29	0.67
1:D:148:ILE:O	1:D:152:GLN:HG3	1.94	0.67
1:F:148:ILE:O	1:F:152:GLN:HG2	1.94	0.67
1:F:223:THR:HG23	1:F:250:ILE:HD13	1.75	0.67
1:F:225:LYS:HB3	1:F:225:LYS:HZ3	1.59	0.67
1:F:284:ILE:HD12	1:F:284:ILE:N	2.08	0.67
1:J:165:ASP:C	1:J:167:ASN:H	2.01	0.67
1:K:57:ILE:CG2	1:K:123:ASN:HB2	2.25	0.67
1:K:85:ASP:C	1:K:87:TYR:H	2.02	0.67
1:L:41:TRP:HE3	1:L:277:LYS:CG	2.07	0.67
1:B:43:ASN:O	1:B:44:LEU:HB2	1.95	0.67
1:C:182:ALA:HB1	1:C:183:PRO:HD2	1.77	0.67
1:G:81:SER:HB3	1:G:94:ARG:HH21	1.60	0.67
1:J:110:ARG:CD	1:K:46:PRO:HG3	2.24	0.67
1:K:109:TYR:CD2	1:K:112:MET:HB2	2.30	0.67
1:D:11:SER:N	1:D:13:ASN:HD21	1.93	0.67
1:E:80:LEU:HD22	1:E:90:ALA:HB3	1.75	0.67
1:F:71:ILE:N	1:F:71:ILE:HD12	2.10	0.67
1:G:259:LYS:HE2	1:H:281:ARG:NH2	2.10	0.67
1:I:248:GLU:HG2	1:J:282:TYR:CD2	2.29	0.67
1:J:39:PHE:HZ	1:J:257:PHE:HB2	1.58	0.67
1:J:41:TRP:HE3	1:J:277:LYS:CD	2.07	0.67
1:J:195:SER:O	1:J:196:ILE:HG13	1.95	0.67
1:L:84:ARG:HB3	1:L:88:ASN:HA	1.77	0.67
1:C:102:LYS:HG3	1:C:103:GLU:N	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:41:TRP:O	1:D:43:ASN:N	2.27	0.67
1:E:165:ASP:O	1:E:167:ASN:N	2.28	0.67
1:G:12:ILE:HD12	1:I:181:ASN:OD1	1.94	0.67
1:G:182:ALA:HB1	1:G:183:PRO:HD2	1.76	0.67
1:J:158:PRO:O	1:J:159:VAL:HB	1.95	0.67
1:A:46:PRO:HG3	1:L:110:ARG:HD3	1.77	0.67
1:K:124:ASN:HA	1:K:256:VAL:O	1.95	0.67
1:E:20:ARG:HG2	1:E:146:GLU:HG3	1.77	0.67
1:F:261:ARG:HG2	1:F:261:ARG:HH11	1.59	0.67
1:J:148:ILE:O	1:J:152:GLN:HG3	1.94	0.67
1:B:168:GLN:HE22	1:B:169:LEU:CG	2.08	0.66
1:L:106:LEU:HD23	1:L:118:GLY:C	2.19	0.66
1:B:274:LEU:HD23	1:B:275:ASN:N	2.11	0.66
1:D:171:LEU:HB3	1:E:185:ILE:HD13	1.76	0.66
1:G:171:LEU:O	1:G:173:GLN:N	2.29	0.66
1:I:43:ASN:CB	1:I:277:LYS:NZ	2.59	0.66
1:A:40:GLU:HG2	1:A:279:LYS:HZ2	1.60	0.66
1:F:40:GLU:HB2	1:F:281:ARG:HE	1.58	0.66
1:K:57:ILE:O	1:K:61:GLY:HA2	1.96	0.66
1:B:44:LEU:HA	1:B:275:ASN:HD21	1.59	0.66
1:B:137:PHE:CD2	1:B:221:MET:HB2	2.31	0.66
1:C:172:LYS:HE2	1:D:179:GLU:OE1	1.95	0.66
1:D:57:ILE:HG22	1:D:123:ASN:CB	2.19	0.66
1:G:275:ASN:C	1:G:277:LYS:HD3	2.21	0.66
1:H:163:ALA:O	1:I:187:ALA:HA	1.95	0.66
1:I:11:SER:HB3	1:J:172:LYS:CE	2.24	0.66
1:L:142:ALA:O	1:L:146:GLU:HB2	1.96	0.66
1:B:39:PHE:CZ	1:B:257:PHE:HB3	2.31	0.66
1:B:269:ASN:ND2	1:B:275:ASN:N	2.44	0.66
1:D:73:TYR:HE2	1:D:117:MET:HE1	1.60	0.66
1:K:55:LYS:HB3	1:K:59:GLN:NE2	2.08	0.66
1:F:278:VAL:O	1:F:279:LYS:HD3	1.95	0.66
1:I:84:ARG:HD3	1:I:90:ALA:HA	1.77	0.66
1:K:269:ASN:CG	1:K:274:LEU:HA	2.21	0.66
1:C:47:THR:OG1	1:C:72:SER:HB3	1.95	0.66
1:C:158:PRO:O	1:C:159:VAL:HB	1.94	0.66
1:G:59:GLN:O	1:G:129:PRO:HB3	1.95	0.66
1:J:67:LYS:HG2	1:J:117:MET:HG2	1.76	0.66
1:J:117:MET:HE3	1:J:271:LEU:HD22	1.78	0.66
1:K:225:LYS:O	1:K:227:GLN:HG2	1.95	0.66
1:L:117:MET:SD	1:L:118:GLY:N	2.68	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:LEU:O	1:B:107:TYR:HB2	1.95	0.66
1:B:125:ASP:OD1	1:B:256:VAL:HG13	1.94	0.66
1:B:269:ASN:O	1:B:271:LEU:N	2.25	0.66
1:C:42:GLU:N	1:C:277:LYS:HZ2	1.92	0.66
1:D:275:ASN:C	1:D:277:LYS:HE3	2.21	0.66
1:F:39:PHE:HZ	1:F:257:PHE:HB2	1.60	0.66
1:H:53:LEU:HD21	1:H:121:ILE:HD12	1.77	0.66
1:H:269:ASN:HA	1:H:273:GLY:HA3	1.78	0.66
1:K:23:TRP:NE1	1:K:145:LYS:HE2	2.11	0.66
1:L:164:ASN:ND2	1:L:195:SER:HA	2.10	0.66
1:C:44:LEU:HB2	1:C:45:PRO:HD2	1.78	0.66
1:E:55:LYS:O	1:E:59:GLN:HG3	1.96	0.66
1:F:39:PHE:CZ	1:F:257:PHE:HB2	2.31	0.66
1:C:222:MET:HB3	1:C:227:GLN:HB2	1.78	0.66
1:F:124:ASN:HD21	1:F:128:PHE:HB2	1.60	0.66
1:K:65:PHE:HD1	1:K:121:ILE:HD11	1.61	0.66
1:B:140:GLU:CD	1:C:145:LYS:HZ3	2.02	0.65
1:C:82:GLY:O	1:C:84:ARG:NH1	2.29	0.65
1:C:221:MET:HA	1:C:221:MET:HE3	1.78	0.65
1:J:163:ALA:HB3	1:K:187:ALA:HB2	1.78	0.65
1:K:226:LEU:O	1:K:227:GLN:HG2	1.96	0.65
1:C:124:ASN:HD21	1:C:128:PHE:HB2	1.59	0.65
1:D:66:TYR:HE1	1:D:116:ASP:HA	1.59	0.65
1:F:222:MET:HE3	1:F:227:GLN:HG3	1.79	0.65
1:J:84:ARG:HA	1:J:89:GLN:O	1.97	0.65
1:L:277:LYS:HA	1:L:277:LYS:HZ3	1.61	0.65
1:C:268:ILE:C	1:C:270:GLU:H	2.04	0.65
1:F:65:PHE:HB2	1:F:119:VAL:HB	1.78	0.65
1:F:84:ARG:HH11	1:F:84:ARG:HG3	1.59	0.65
1:G:124:ASN:C	1:G:126:MET:N	2.55	0.65
1:G:188:HIS:O	1:G:188:HIS:CG	2.47	0.65
1:I:182:ALA:HB1	1:I:183:PRO:HD2	1.77	0.65
1:I:259:LYS:HA	1:I:262:GLU:OE1	1.97	0.65
1:J:44:LEU:HD22	1:J:48:ILE:HB	1.77	0.65
1:K:12:ILE:O	1:K:12:ILE:HG22	1.96	0.65
1:L:168:GLN:NE2	1:L:169:LEU:HG	2.10	0.65
1:A:12:ILE:HG23	1:A:15:ILE:HB	1.77	0.65
1:F:277:LYS:H	1:F:277:LYS:CE	2.09	0.65
1:J:174:VAL:C	1:J:176:ASN:H	2.04	0.65
1:F:98:PRO:C	1:F:100:TYR:H	2.05	0.65
1:F:117:MET:HG3	1:F:118:GLY:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:201:THR:HG21	1:J:183:PRO:HG3	1.78	0.65
1:J:80:LEU:HB3	1:J:90:ALA:HB2	1.78	0.65
1:K:269:ASN:ND2	1:K:275:ASN:N	2.38	0.65
1:L:43:ASN:N	1:L:277:LYS:HE2	2.11	0.65
1:A:159:VAL:HG21	1:L:202:ASP:O	1.96	0.65
1:F:222:MET:HB3	1:F:227:GLN:HB2	1.78	0.65
1:H:39:PHE:HE2	1:H:258:LEU:HB2	1.62	0.65
1:C:40:GLU:O	1:C:278:VAL:O	2.15	0.65
1:D:258:LEU:HD23	1:D:258:LEU:C	2.22	0.65
1:G:50:PRO:O	1:G:51:SER:HB2	1.96	0.65
1:J:40:GLU:HB2	1:J:281:ARG:HG2	1.77	0.65
1:A:173:GLN:HA	1:A:176:ASN:HD22	1.61	0.65
1:C:205:TYR:CZ	1:C:207:VAL:HB	2.32	0.65
1:D:120:VAL:HG21	1:D:122:TYR:CZ	2.32	0.65
1:D:247:ASP:OD1	1:D:248:GLU:N	2.30	0.65
1:G:86:VAL:HG13	1:G:87:TYR:N	2.11	0.65
1:K:188:HIS:HB3	1:K:191:LEU:HD21	1.79	0.65
1:C:40:GLU:CG	1:C:281:ARG:HH21	2.09	0.65
1:C:249:GLN:CG	1:D:222:MET:HE2	2.19	0.65
1:E:19:LYS:HA	1:E:22:ARG:HB2	1.78	0.65
1:J:85:ASP:OD1	1:J:89:GLN:HG2	1.97	0.65
1:B:126:MET:C	1:B:128:PHE:H	2.04	0.65
1:B:226:LEU:HD22	1:B:251:ASP:CG	2.21	0.65
1:D:133:THR:HG21	1:D:224:PHE:CE2	2.32	0.65
1:E:275:ASN:C	1:E:277:LYS:HD3	2.22	0.65
1:G:81:SER:CB	1:G:94:ARG:HE	2.08	0.65
1:H:150:VAL:HG11	1:I:156:LYS:HG3	1.77	0.65
1:I:28:LEU:CD1	1:I:135:GLU:HG2	2.27	0.65
1:K:20:ARG:NE	1:K:146:GLU:OE1	2.30	0.65
1:A:226:LEU:O	1:A:227:GLN:HG2	1.98	0.64
1:A:282:TYR:O	1:A:284:ILE:HG22	1.97	0.64
1:B:158:PRO:O	1:B:159:VAL:HB	1.97	0.64
1:C:40:GLU:OE1	1:C:279:LYS:NZ	2.30	0.64
1:D:169:LEU:HB3	1:D:186:PHE:CZ	2.32	0.64
1:D:283:ASP:HB2	1:D:284:ILE:HD12	1.79	0.64
1:E:169:LEU:HB3	1:E:186:PHE:CE1	2.31	0.64
1:J:85:ASP:HB2	1:J:89:GLN:N	2.02	0.64
1:E:74:ILE:HG12	1:E:75:ALA:N	2.11	0.64
1:F:227:GLN:O	1:F:228:THR:O	2.15	0.64
1:G:221:MET:HE2	1:G:225:LYS:CE	2.27	0.64
1:L:40:GLU:HG3	1:L:281:ARG:HH21	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:ASN:O	1:A:164:ASN:ND2	2.30	0.64
1:C:43:ASN:CB	1:C:277:LYS:HD2	2.20	0.64
1:E:16:GLN:O	1:E:20:ARG:HG3	1.98	0.64
1:E:248:GLU:O	1:E:250:ILE:N	2.31	0.64
1:F:166:ASN:HD21	1:G:187:ALA:HB1	1.61	0.64
1:F:201:THR:HG22	1:F:201:THR:O	1.97	0.64
1:I:124:ASN:C	1:I:126:MET:H	2.04	0.64
1:K:283:ASP:CG	1:K:284:ILE:N	2.53	0.64
1:B:99:VAL:O	1:B:99:VAL:HG12	1.97	0.64
1:E:175:TYR:C	1:E:177:GLN:H	2.06	0.64
1:F:108:ASN:ND2	1:F:271:LEU:HB2	2.00	0.64
1:G:55:LYS:HB3	1:G:59:GLN:HE22	1.61	0.64
1:H:85:ASP:O	1:I:99:VAL:HG21	1.96	0.64
1:I:117:MET:HE3	1:I:271:LEU:HB2	1.79	0.64
1:J:228:THR:HB	1:J:250:ILE:CD1	2.27	0.64
1:K:42:GLU:C	1:K:277:LYS:NZ	2.55	0.64
1:L:104:PHE:CD2	1:L:118:GLY:HA3	2.32	0.64
1:B:42:GLU:H	1:B:277:LYS:CB	2.11	0.64
1:E:53:LEU:CA	1:E:63:VAL:HG21	2.28	0.64
1:G:262:GLU:HG2	1:G:278:VAL:HG22	1.79	0.64
1:B:117:MET:CB	1:B:271:LEU:HD13	2.25	0.64
1:E:53:LEU:HD23	1:E:54:GLU:H	1.61	0.64
1:G:114:GLU:HG2	1:G:115:GLU:H	1.61	0.64
1:H:62:TYR:CE2	1:H:79:ALA:HA	2.28	0.64
1:H:204:PRO:HG3	1:I:202:ASP:OD1	1.97	0.64
1:K:275:ASN:HD22	1:K:277:LYS:CE	2.10	0.64
1:E:262:GLU:HG2	1:E:278:VAL:HG22	1.80	0.64
1:E:279:LYS:C	1:E:281:ARG:H	2.03	0.64
1:F:265:CYS:O	1:F:269:ASN:HB2	1.97	0.64
1:G:40:GLU:HB3	1:G:279:LYS:HZ3	1.62	0.64
1:H:206:VAL:O	1:H:210:LEU:HG	1.98	0.64
1:I:85:ASP:CG	1:I:89:GLN:HB3	2.21	0.64
1:C:89:GLN:NE2	1:C:107:TYR:HD2	1.95	0.64
1:D:280:PHE:HB2	1:D:283:ASP:OD2	1.97	0.64
1:G:92:VAL:HG22	1:G:93:PHE:O	1.98	0.64
1:H:98:PRO:C	1:H:100:TYR:H	2.04	0.64
1:I:107:TYR:HA	1:I:119:VAL:HG22	1.77	0.64
1:J:225:LYS:HE3	1:J:227:GLN:NE2	2.08	0.64
1:B:171:LEU:HB3	1:C:185:ILE:HD13	1.78	0.64
1:C:42:GLU:O	1:C:277:LYS:HG2	1.98	0.64
1:E:168:GLN:OE1	1:E:169:LEU:HG	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:277:LYS:HZ2	1:F:278:VAL:N	1.95	0.64
1:H:188:HIS:CG	1:H:188:HIS:O	2.49	0.64
1:K:172:LYS:HE3	1:L:179:GLU:OE2	1.97	0.64
1:B:16:GLN:HG2	1:B:20:ARG:CD	2.27	0.64
1:D:267:LYS:O	1:D:270:GLU:HG2	1.98	0.64
1:E:42:GLU:O	1:E:43:ASN:HB3	1.98	0.64
1:E:269:ASN:HA	1:E:272:TYR:O	1.98	0.64
1:L:112:MET:O	1:L:112:MET:SD	2.55	0.64
1:D:179:GLU:HB2	1:D:181:ASN:ND2	2.13	0.63
1:J:125:ASP:HB3	1:K:55:LYS:HE2	1.79	0.63
1:K:174:VAL:O	1:K:177:GLN:HG3	1.98	0.63
1:K:174:VAL:HG13	1:K:177:GLN:HE21	1.63	0.63
1:A:209:LYS:HD3	1:B:205:TYR:CD2	2.34	0.63
1:B:183:PRO:HG3	1:L:201:THR:HG21	1.79	0.63
1:E:249:GLN:HE22	1:F:218:TRP:HE1	1.45	0.63
1:F:163:ALA:HB3	1:G:187:ALA:CB	2.28	0.63
1:H:163:ALA:HB3	1:I:187:ALA:CB	2.26	0.63
1:H:188:HIS:O	1:H:190:ALA:N	2.30	0.63
1:A:54:GLU:OE1	1:A:261:ARG:NH1	2.30	0.63
1:A:222:MET:HB3	1:A:227:GLN:HB2	1.80	0.63
1:B:108:ASN:OD1	1:B:267:LYS:HB3	1.97	0.63
1:D:53:LEU:O	1:D:57:ILE:HG13	1.97	0.63
1:H:107:TYR:CD1	1:H:267:LYS:HD3	2.32	0.63
1:I:61:GLY:O	1:I:62:TYR:C	2.42	0.63
1:I:66:TYR:HB2	1:I:104:PHE:CZ	2.33	0.63
1:J:60:PHE:O	1:J:60:PHE:CD1	2.51	0.63
1:K:93:PHE:HB2	1:K:106:LEU:HD21	1.81	0.63
1:K:249:GLN:HG3	1:K:250:ILE:HD13	1.80	0.63
1:E:91:THR:O	1:E:106:LEU:HG	1.98	0.63
1:F:117:MET:CE	1:F:271:LEU:HD21	2.28	0.63
1:H:226:LEU:HD12	1:H:251:ASP:HA	1.80	0.63
1:B:42:GLU:OE1	1:B:279:LYS:HB2	1.98	0.63
1:B:181:ASN:O	1:B:182:ALA:CB	2.46	0.63
1:D:188:HIS:O	1:D:189:GLU:CB	2.46	0.63
1:E:20:ARG:NE	1:E:146:GLU:CD	2.57	0.63
1:F:126:MET:H	1:F:126:MET:HE3	1.63	0.63
1:H:13:ASN:ND2	1:J:179:GLU:HA	2.13	0.63
1:H:41:TRP:HZ3	1:H:265:CYS:HG	1.45	0.63
1:I:271:LEU:O	1:I:273:GLY:N	2.27	0.63
1:J:85:ASP:HB3	1:J:87:TYR:H	1.61	0.63
1:J:103:GLU:O	1:J:104:PHE:HB2	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:117:MET:HB2	1:J:271:LEU:HD13	1.79	0.63
1:K:119:VAL:CG1	1:K:120:VAL:N	2.61	0.63
1:C:15:ILE:HA	1:C:18:GLN:NE2	2.13	0.63
1:D:11:SER:N	1:D:13:ASN:ND2	2.47	0.63
1:D:35:ALA:HB2	1:D:225:LYS:HZ3	1.64	0.63
1:D:169:LEU:HD11	1:D:187:ALA:O	1.99	0.63
1:E:168:GLN:HB3	1:E:188:HIS:CD2	2.34	0.63
1:G:80:LEU:HB3	1:G:90:ALA:HB2	1.80	0.63
1:I:108:ASN:O	1:I:109:TYR:HB3	1.96	0.63
1:A:81:SER:OG	1:A:94:ARG:HG3	1.98	0.63
1:B:59:GLN:O	1:B:60:PHE:C	2.41	0.63
1:D:105:LYS:H	1:D:105:LYS:CE	2.11	0.63
1:I:269:ASN:ND2	1:I:276:VAL:HG22	2.12	0.63
1:J:108:ASN:OD1	1:J:270:GLU:HB2	1.99	0.63
1:L:109:TYR:CB	1:L:112:MET:HB3	2.29	0.63
1:A:174:VAL:O	1:A:177:GLN:HB2	1.97	0.63
1:D:131:THR:O	1:D:135:GLU:HG3	1.98	0.63
1:D:258:LEU:O	1:D:259:LYS:C	2.41	0.63
1:F:97:SER:O	1:F:100:TYR:O	2.17	0.63
1:G:47:THR:HG22	1:G:48:ILE:HD13	1.78	0.63
1:I:153:ASN:C	1:I:155:GLN:H	2.05	0.63
1:I:164:ASN:HD22	1:I:164:ASN:N	1.94	0.63
1:I:209:LYS:HD2	1:J:205:TYR:CD2	2.34	0.63
1:A:41:TRP:HE3	1:A:277:LYS:HD3	1.64	0.63
1:B:43:ASN:O	1:B:44:LEU:CB	2.47	0.63
1:C:84:ARG:HD2	1:C:88:ASN:O	1.99	0.63
1:C:109:TYR:O	1:C:111:ASP:N	2.32	0.63
1:G:63:VAL:HG22	1:G:64:GLY:H	1.62	0.63
1:J:174:VAL:O	1:J:177:GLN:HG3	1.99	0.63
1:J:271:LEU:O	1:J:272:TYR:HB2	1.97	0.63
1:K:205:TYR:CZ	1:K:207:VAL:HB	2.34	0.63
1:L:13:ASN:HA	1:L:16:GLN:CB	2.28	0.63
1:A:188:HIS:HB3	1:A:191:LEU:HG	1.81	0.62
1:A:205:TYR:CZ	1:A:207:VAL:HB	2.33	0.62
1:A:276:VAL:C	1:A:277:LYS:HG2	2.24	0.62
1:B:171:LEU:O	1:B:172:LYS:CB	2.47	0.62
1:D:20:ARG:HD3	1:D:146:GLU:OE1	1.99	0.62
1:D:66:TYR:CE2	1:D:68:ASP:HA	2.33	0.62
1:H:38:LEU:HD11	1:H:225:LYS:HB3	1.81	0.62
1:K:124:ASN:HD22	1:K:126:MET:H	1.47	0.62
1:L:282:TYR:O	1:L:283:ASP:CB	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:TRP:HE3	1:A:277:LYS:HB2	1.61	0.62
1:A:269:ASN:HD22	1:A:269:ASN:N	1.96	0.62
1:B:188:HIS:O	1:B:188:HIS:ND1	2.33	0.62
1:D:278:VAL:O	1:D:279:LYS:O	2.17	0.62
1:E:81:SER:C	1:E:84:ARG:NH1	2.57	0.62
1:F:62:TYR:O	1:F:63:VAL:HG12	1.98	0.62
1:F:203:ALA:HB1	1:G:158:PRO:HG3	1.79	0.62
1:G:41:TRP:HE3	1:G:277:LYS:HZ1	1.48	0.62
1:H:124:ASN:ND2	1:H:128:PHE:O	2.31	0.62
1:J:188:HIS:HD2	1:J:190:ALA:HB3	1.64	0.62
1:K:17:ARG:HA	1:K:20:ARG:HB2	1.81	0.62
1:K:94:ARG:HG3	1:K:103:GLU:CG	2.29	0.62
1:B:276:VAL:C	1:B:277:LYS:HD3	2.24	0.62
1:F:148:ILE:HG23	1:F:207:VAL:HG13	1.81	0.62
1:F:268:ILE:O	1:F:271:LEU:HB3	2.00	0.62
1:G:226:LEU:HA	1:G:250:ILE:HG23	1.79	0.62
1:J:136:LEU:HD13	1:K:22:ARG:HD2	1.79	0.62
1:J:174:VAL:HG13	1:J:177:GLN:HE21	1.61	0.62
1:A:93:PHE:HB3	1:A:104:PHE:CD1	2.35	0.62
1:E:105:LYS:HE3	1:E:116:ASP:O	2.00	0.62
1:H:92:VAL:HG12	1:H:93:PHE:N	2.15	0.62
1:B:12:ILE:HG22	1:B:13:ASN:H	1.63	0.62
1:B:108:ASN:ND2	1:B:267:LYS:C	2.58	0.62
1:C:53:LEU:HD11	1:C:121:ILE:HD12	1.81	0.62
1:E:68:ASP:OD1	1:E:71:ILE:HB	1.99	0.62
1:K:165:ASP:HB3	1:K:167:ASN:ND2	2.15	0.62
1:A:41:TRP:CE3	1:A:277:LYS:HD3	2.35	0.62
1:C:214:LYS:NZ	1:C:214:LYS:HB3	2.14	0.62
1:F:13:ASN:O	1:F:17:ARG:HD3	1.99	0.62
1:F:224:PHE:C	1:F:225:LYS:HD2	2.24	0.62
1:I:66:TYR:HB2	1:I:104:PHE:CE1	2.34	0.62
1:I:283:ASP:O	1:I:285:VAL:HG23	1.99	0.62
1:B:30:TYR:O	1:B:34:LEU:HG	1.99	0.62
1:B:37:GLN:O	1:B:281:ARG:HD2	1.99	0.62
1:C:13:ASN:HD21	1:C:17:ARG:NE	1.98	0.62
1:D:170:SER:O	1:D:174:VAL:HG23	1.99	0.62
1:F:94:ARG:HB3	1:F:103:GLU:OE1	2.00	0.62
1:F:162:ARG:NH1	1:F:197:GLU:OE1	2.28	0.62
1:G:52:PHE:C	1:G:52:PHE:CD2	2.77	0.62
1:G:273:GLY:C	1:G:274:LEU:HD23	2.24	0.62
1:J:84:ARG:HD2	1:J:88:ASN:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:SER:N	1:B:176:ASN:OD1	2.33	0.62
1:A:129:PRO:O	1:A:132:PRO:HD2	1.99	0.62
1:E:262:GLU:C	1:E:264:ALA:H	2.08	0.62
1:K:138:ALA:HA	1:K:141:LEU:HD12	1.81	0.62
1:L:16:GLN:HG2	1:L:20:ARG:HE	1.65	0.62
1:A:39:PHE:CZ	1:A:257:PHE:HB2	2.35	0.62
1:C:201:THR:HG23	1:D:159:VAL:HG11	1.82	0.62
1:D:248:GLU:O	1:D:252:SER:CB	2.47	0.62
1:F:50:PRO:O	1:F:51:SER:CB	2.48	0.62
1:F:50:PRO:O	1:F:51:SER:HB3	1.99	0.62
1:F:59:GLN:O	1:F:60:PHE:CD1	2.53	0.62
1:H:201:THR:HG22	1:H:201:THR:O	1.99	0.62
1:K:189:GLU:C	1:K:191:LEU:N	2.54	0.62
1:B:43:ASN:HB2	1:B:277:LYS:CD	2.26	0.61
1:B:247:ASP:HA	1:B:250:ILE:HD11	1.80	0.61
1:D:95:ALA:HB3	1:D:101:GLN:HA	1.82	0.61
1:D:274:LEU:HD13	1:D:275:ASN:H	1.64	0.61
1:E:11:SER:N	1:G:181:ASN:HB2	2.16	0.61
1:F:169:LEU:HD23	1:F:170:SER:H	1.63	0.61
1:G:16:GLN:HG3	1:G:20:ARG:CZ	2.29	0.61
1:G:124:ASN:HB2	1:G:126:MET:O	2.00	0.61
1:G:138:ALA:HA	1:G:141:LEU:HD12	1.82	0.61
1:K:78:GLY:HA3	1:K:95:ALA:HA	1.81	0.61
1:K:86:VAL:HG13	1:L:99:VAL:HG11	1.79	0.61
1:L:13:ASN:HA	1:L:16:GLN:HB3	1.81	0.61
1:D:182:ALA:HB1	1:D:183:PRO:HD2	1.82	0.61
1:E:71:ILE:CD1	1:E:74:ILE:HD12	2.29	0.61
1:E:109:TYR:C	1:E:111:ASP:H	2.07	0.61
1:F:260:SER:HA	1:F:263:GLU:OE2	1.99	0.61
1:G:81:SER:H	1:G:90:ALA:HB1	1.65	0.61
1:H:267:LYS:HA	1:H:270:GLU:OE1	2.01	0.61
1:I:274:LEU:CD1	1:I:275:ASN:HB3	2.31	0.61
1:J:144:LEU:O	1:J:148:ILE:HG13	2.00	0.61
1:J:262:GLU:HB3	1:J:278:VAL:HG11	1.80	0.61
1:A:169:LEU:HD22	1:A:186:PHE:CE1	2.35	0.61
1:B:84:ARG:HB3	1:B:88:ASN:CA	2.24	0.61
1:B:123:ASN:O	1:B:124:ASN:HB3	1.98	0.61
1:D:277:LYS:C	1:D:279:LYS:H	2.07	0.61
1:I:250:ILE:HG22	1:I:251:ASP:N	2.14	0.61
1:K:172:LYS:HE3	1:L:179:GLU:CD	2.25	0.61
1:H:66:TYR:HE2	1:H:100:TYR:OH	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:51:SER:O	1:I:55:LYS:HG3	2.01	0.61
1:I:55:LYS:O	1:I:59:GLN:HB2	2.01	0.61
1:B:42:GLU:N	1:B:277:LYS:HG2	2.15	0.61
1:B:124:ASN:HA	1:B:260:SER:HB3	1.82	0.61
1:D:73:TYR:CE2	1:D:117:MET:HE1	2.35	0.61
1:G:30:TYR:CE2	1:G:218:TRP:CH2	2.89	0.61
1:G:269:ASN:CG	1:G:274:LEU:O	2.43	0.61
1:J:188:HIS:O	1:J:189:GLU:HB3	2.00	0.61
1:K:48:ILE:HD13	1:K:73:TYR:HB3	1.81	0.61
1:A:201:THR:O	1:B:159:VAL:HG21	2.01	0.61
1:J:61:GLY:O	1:J:62:TYR:C	2.43	0.61
1:B:115:GLU:O	1:B:116:ASP:HB2	2.00	0.61
1:D:81:SER:O	1:D:92:VAL:N	2.34	0.61
1:J:222:MET:HA	1:J:227:GLN:HG3	1.82	0.61
1:J:228:THR:HB	1:J:250:ILE:HD11	1.82	0.61
1:L:37:GLN:O	1:L:281:ARG:HD2	2.01	0.61
1:B:38:LEU:HD21	1:B:227:GLN:NE2	2.15	0.61
1:B:140:GLU:CD	1:C:145:LYS:NZ	2.58	0.61
1:G:172:LYS:H	1:G:175:TYR:HD1	1.46	0.61
1:J:258:LEU:HD22	1:J:280:PHE:CE1	2.35	0.61
1:K:107:TYR:HE1	1:K:109:TYR:HH	1.48	0.61
1:L:269:ASN:OD1	1:L:274:LEU:HA	2.01	0.61
1:D:39:PHE:CE1	1:D:258:LEU:HB2	2.36	0.61
1:H:37:GLN:O	1:H:281:ARG:HG3	2.00	0.61
1:I:20:ARG:HG2	1:I:146:GLU:HG3	1.82	0.61
1:J:31:LEU:HB3	1:J:134:LEU:HD22	1.81	0.61
1:L:48:ILE:HD11	1:L:73:TYR:C	2.26	0.61
1:L:66:TYR:HB2	1:L:104:PHE:CZ	2.36	0.61
1:E:28:LEU:CD1	1:E:135:GLU:HG2	2.31	0.61
1:E:125:ASP:O	1:E:126:MET:HB2	2.00	0.61
1:F:31:LEU:O	1:F:35:ALA:N	2.32	0.61
1:G:162:ARG:NH2	1:G:194:ASP:O	2.34	0.61
1:C:283:ASP:HB3	1:C:284:ILE:CD1	2.29	0.60
1:G:165:ASP:C	1:G:167:ASN:N	2.59	0.60
1:H:43:ASN:HB3	1:H:275:ASN:OD1	2.00	0.60
1:H:65:PHE:HA	1:H:74:ILE:O	2.00	0.60
1:H:72:SER:O	1:H:73:TYR:HB2	2.00	0.60
1:H:218:TRP:O	1:H:221:MET:HB3	2.01	0.60
1:J:277:LYS:O	1:J:279:LYS:N	2.33	0.60
1:K:34:LEU:O	1:K:37:GLN:NE2	2.33	0.60
1:K:66:TYR:CE2	1:K:68:ASP:HA	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:41:TRP:O	1:L:277:LYS:NZ	2.34	0.60
1:L:178:TYR:O	1:L:179:GLU:HB3	2.01	0.60
1:L:226:LEU:O	1:L:227:GLN:CD	2.44	0.60
1:B:168:GLN:NE2	1:B:169:LEU:HG	2.15	0.60
1:C:186:PHE:CD2	1:C:196:ILE:HD11	2.36	0.60
1:C:201:THR:HG21	1:D:161:ILE:HD11	1.81	0.60
1:C:226:LEU:O	1:C:227:GLN:CG	2.49	0.60
1:C:271:LEU:O	1:C:272:TYR:HB2	2.01	0.60
1:E:188:HIS:CG	1:E:188:HIS:O	2.53	0.60
1:F:110:ARG:HD2	1:G:46:PRO:CG	2.30	0.60
1:F:117:MET:CG	1:F:118:GLY:H	2.12	0.60
1:G:222:MET:HB3	1:G:227:GLN:CB	2.31	0.60
1:H:222:MET:HE3	1:H:227:GLN:HG3	1.82	0.60
1:I:172:LYS:HA	1:I:175:TYR:HB2	1.82	0.60
1:J:108:ASN:ND2	1:J:271:LEU:CB	2.64	0.60
1:J:170:SER:C	1:J:171:LEU:O	2.41	0.60
1:K:71:ILE:O	1:K:73:TYR:N	2.34	0.60
1:L:265:CYS:O	1:L:268:ILE:N	2.34	0.60
1:A:74:ILE:HG12	1:A:75:ALA:N	2.16	0.60
1:E:92:VAL:HA	1:E:104:PHE:O	2.02	0.60
1:E:96:ALA:O	1:E:97:SER:HB3	2.00	0.60
1:H:110:ARG:O	1:H:111:ASP:HB2	2.00	0.60
1:J:264:ALA:HA	1:J:267:LYS:HE2	1.82	0.60
1:K:84:ARG:HB3	1:K:84:ARG:NH1	2.15	0.60
1:L:15:ILE:HG23	1:L:18:GLN:NE2	2.17	0.60
1:L:57:ILE:CG1	1:L:63:VAL:HG21	2.31	0.60
1:L:188:HIS:O	1:L:188:HIS:CG	2.55	0.60
1:L:280:PHE:O	1:L:281:ARG:HB3	2.01	0.60
1:B:158:PRO:O	1:B:159:VAL:CB	2.49	0.60
1:B:247:ASP:HA	1:B:250:ILE:CD1	2.31	0.60
1:D:115:GLU:O	1:D:116:ASP:HB2	2.00	0.60
1:F:44:LEU:HD23	1:F:275:ASN:CG	2.26	0.60
1:J:81:SER:O	1:J:90:ALA:O	2.18	0.60
1:K:174:VAL:CG1	1:K:177:GLN:HE21	2.14	0.60
1:K:275:ASN:O	1:K:275:ASN:CG	2.45	0.60
1:L:41:TRP:CE3	1:L:277:LYS:HG3	2.34	0.60
1:L:282:TYR:O	1:L:283:ASP:HB2	2.00	0.60
1:A:49:ASN:HB2	1:L:87:TYR:CD1	2.37	0.60
1:A:226:LEU:HD21	1:A:283:ASP:OD2	2.02	0.60
1:B:42:GLU:HG2	1:B:279:LYS:HZ1	1.66	0.60
1:C:57:ILE:O	1:C:61:GLY:HA2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:110:ARG:C	1:C:112:MET:N	2.60	0.60
1:E:28:LEU:HD23	1:E:32:GLN:HG2	1.83	0.60
1:H:177:GLN:O	1:H:179:GLU:N	2.34	0.60
1:K:68:ASP:C	1:K:70:VAL:H	2.07	0.60
1:K:145:LYS:O	1:K:145:LYS:HD2	2.01	0.60
1:K:162:ARG:HH12	1:L:193:SER:HA	1.64	0.60
1:L:68:ASP:C	1:L:68:ASP:OD1	2.44	0.60
1:A:16:GLN:C	1:A:18:GLN:H	2.10	0.60
1:A:226:LEU:C	1:A:227:GLN:HG2	2.26	0.60
1:B:42:GLU:HG2	1:B:279:LYS:NZ	2.16	0.60
1:C:42:GLU:HG3	1:C:279:LYS:NZ	2.17	0.60
1:D:179:GLU:CG	1:D:180:GLY:N	2.64	0.60
1:E:152:GLN:O	1:E:155:GLN:HG2	2.00	0.60
1:E:158:PRO:O	1:E:159:VAL:CB	2.49	0.60
1:F:117:MET:CE	1:F:271:LEU:HD11	2.31	0.60
1:F:265:CYS:SG	1:F:276:VAL:HA	2.42	0.60
1:H:99:VAL:O	1:H:99:VAL:HG12	2.01	0.60
1:H:108:ASN:O	1:H:109:TYR:HB2	2.02	0.60
1:L:274:LEU:CD2	1:L:275:ASN:N	2.64	0.60
1:A:45:PRO:HG3	1:A:73:TYR:CG	2.37	0.60
1:B:108:ASN:HB3	1:B:271:LEU:HG	1.83	0.60
1:B:200:LYS:HD3	1:B:202:ASP:OD2	2.01	0.60
1:D:43:ASN:N	1:D:277:LYS:HD2	2.13	0.60
1:E:43:ASN:O	1:E:275:ASN:ND2	2.35	0.60
1:G:213:GLN:O	1:G:216:ALA:HB3	2.01	0.60
1:H:64:GLY:C	1:H:65:PHE:CD1	2.79	0.60
1:I:171:LEU:O	1:I:172:LYS:HB2	2.02	0.60
1:I:228:THR:CB	1:I:250:ILE:HD11	2.31	0.60
1:J:144:LEU:HD21	1:K:152:GLN:CD	2.27	0.60
1:F:59:GLN:O	1:F:61:GLY:N	2.35	0.60
1:F:84:ARG:HD3	1:F:89:GLN:O	2.01	0.60
1:H:265:CYS:HA	1:H:268:ILE:HD12	1.82	0.60
1:J:90:ALA:O	1:J:92:VAL:N	2.29	0.60
1:K:57:ILE:HG23	1:K:123:ASN:HB2	1.83	0.60
1:L:54:GLU:HG2	1:L:261:ARG:HH22	1.67	0.60
1:L:222:MET:HB3	1:L:227:GLN:HB2	1.84	0.60
1:C:148:ILE:O	1:C:152:GLN:HG3	2.02	0.60
1:D:42:GLU:HB3	1:D:277:LYS:HD3	1.83	0.60
1:G:200:LYS:NZ	1:G:202:ASP:OD1	2.33	0.60
1:G:271:LEU:C	1:G:272:TYR:HD2	2.10	0.60
1:H:267:LYS:O	1:H:268:ILE:C	2.43	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:158:PRO:O	1:I:159:VAL:HB	2.01	0.60
1:A:85:ASP:CG	1:A:89:GLN:HB2	2.27	0.60
1:B:91:THR:CG2	1:B:92:VAL:HG23	2.31	0.60
1:B:148:ILE:O	1:B:152:GLN:HG3	2.01	0.60
1:D:258:LEU:HD21	1:D:262:GLU:HG2	1.84	0.60
1:E:79:ALA:CB	1:E:94:ARG:HH21	2.14	0.60
1:G:109:TYR:N	1:G:112:MET:HB2	2.17	0.60
1:G:277:LYS:HD3	1:G:277:LYS:N	2.16	0.60
1:H:109:TYR:CG	1:H:110:ARG:N	2.69	0.60
1:I:98:PRO:O	1:I:99:VAL:HB	2.01	0.60
1:J:117:MET:CE	1:J:271:LEU:HD22	2.32	0.60
1:L:23:TRP:NE1	1:L:145:LYS:HE3	2.17	0.60
1:L:179:GLU:CG	1:L:181:ASN:H	2.15	0.60
1:A:43:ASN:ND2	1:A:276:VAL:HG12	2.17	0.59
1:A:182:ALA:HB1	1:A:183:PRO:HD2	1.84	0.59
1:H:269:ASN:C	1:H:271:LEU:H	2.09	0.59
1:I:20:ARG:NE	1:I:146:GLU:HG3	2.16	0.59
1:I:47:THR:HB	1:I:73:TYR:O	2.01	0.59
1:J:34:LEU:O	1:J:37:GLN:NE2	2.35	0.59
1:K:39:PHE:CE1	1:K:258:LEU:HB2	2.36	0.59
1:A:168:GLN:HE21	1:A:168:GLN:HA	1.68	0.59
1:B:136:LEU:HD13	1:C:22:ARG:HD2	1.84	0.59
1:B:201:THR:HG23	1:C:159:VAL:HG11	1.84	0.59
1:C:110:ARG:O	1:C:112:MET:N	2.35	0.59
1:D:123:ASN:O	1:D:124:ASN:OD1	2.19	0.59
1:E:53:LEU:CB	1:E:63:VAL:HG21	2.32	0.59
1:F:160:LEU:HD11	1:G:171:LEU:HD21	1.84	0.59
1:H:259:LYS:HD2	1:I:281:ARG:HH12	1.65	0.59
1:J:117:MET:HB2	1:J:271:LEU:CD1	2.30	0.59
1:K:67:LYS:HD3	1:K:117:MET:CE	2.31	0.59
1:L:12:ILE:O	1:L:16:GLN:HB2	2.02	0.59
1:A:12:ILE:CG2	1:A:15:ILE:HB	2.33	0.59
1:D:39:PHE:CZ	1:D:257:PHE:O	2.55	0.59
1:D:147:ILE:HG12	1:E:156:LYS:HD2	1.83	0.59
1:D:166:ASN:O	1:D:167:ASN:C	2.45	0.59
1:F:37:GLN:O	1:F:281:ARG:HD2	2.02	0.59
1:F:188:HIS:C	1:F:190:ALA:H	2.10	0.59
1:H:60:PHE:C	1:H:62:TYR:H	2.10	0.59
1:I:84:ARG:HD2	1:I:88:ASN:O	2.02	0.59
1:J:201:THR:CG2	1:L:183:PRO:HG3	2.31	0.59
1:A:156:LYS:HE3	1:B:178:TYR:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:158:PRO:O	1:D:159:VAL:CG2	2.43	0.59
1:F:38:LEU:O	1:F:39:PHE:HB2	2.01	0.59
1:G:179:GLU:OE2	1:G:181:ASN:N	2.36	0.59
1:I:109:TYR:HE2	1:I:112:MET:SD	2.25	0.59
1:L:113:LYS:O	1:L:114:GLU:HG3	2.03	0.59
1:A:37:GLN:C	1:A:37:GLN:NE2	2.59	0.59
1:E:67:LYS:HE3	1:E:117:MET:HG2	1.83	0.59
1:F:213:GLN:O	1:F:216:ALA:HB3	2.02	0.59
1:G:20:ARG:HD2	1:G:146:GLU:CD	2.27	0.59
1:G:170:SER:OG	1:G:173:GLN:HB2	2.03	0.59
1:G:171:LEU:O	1:G:172:LYS:HB3	2.01	0.59
1:G:171:LEU:HD23	1:G:175:TYR:CE1	2.37	0.59
1:J:49:ASN:HB3	1:J:52:PHE:HB3	1.84	0.59
1:J:53:LEU:O	1:J:56:SER:HB2	2.02	0.59
1:K:39:PHE:HE1	1:K:258:LEU:HB2	1.66	0.59
1:D:111:ASP:O	1:D:112:MET:HG2	2.02	0.59
1:D:146:GLU:O	1:D:150:VAL:HG23	2.02	0.59
1:E:85:ASP:O	1:E:86:VAL:C	2.44	0.59
1:F:201:THR:HG23	1:G:159:VAL:HG11	1.83	0.59
1:I:50:PRO:O	1:I:54:GLU:HG3	2.03	0.59
1:I:117:MET:HG2	1:I:271:LEU:CD1	2.24	0.59
1:I:170:SER:OG	1:I:173:GLN:HB2	2.03	0.59
1:A:91:THR:O	1:A:92:VAL:HB	2.02	0.59
1:B:226:LEU:C	1:B:227:GLN:HG2	2.27	0.59
1:D:174:VAL:O	1:D:177:GLN:CG	2.50	0.59
1:D:264:ALA:O	1:D:268:ILE:N	2.25	0.59
1:F:53:LEU:HD11	1:F:121:ILE:HD12	1.83	0.59
1:F:67:LYS:HG3	1:F:72:SER:O	2.03	0.59
1:G:147:ILE:HG23	1:H:156:LYS:HG3	1.84	0.59
1:G:270:GLU:C	1:G:272:TYR:H	2.11	0.59
1:H:64:GLY:O	1:H:75:ALA:HA	2.01	0.59
1:H:264:ALA:O	1:H:268:ILE:HG13	2.03	0.59
1:I:34:LEU:O	1:I:37:GLN:NE2	2.36	0.59
1:I:171:LEU:O	1:I:172:LYS:CB	2.50	0.59
1:J:174:VAL:HG12	1:J:177:GLN:HE21	1.67	0.59
1:K:71:ILE:O	1:K:72:SER:C	2.44	0.59
1:K:92:VAL:O	1:K:92:VAL:HG12	2.03	0.59
1:C:177:GLN:O	1:C:178:TYR:C	2.45	0.59
1:E:41:TRP:O	1:E:277:LYS:HG2	2.03	0.59
1:E:44:LEU:N	1:E:44:LEU:CD1	2.63	0.59
1:E:258:LEU:HD21	1:E:278:VAL:HG13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:122:TYR:O	1:F:260:SER:OG	2.18	0.59
1:F:186:PHE:CD2	1:F:196:ILE:HD11	2.37	0.59
1:J:133:THR:HG21	1:J:224:PHE:CE2	2.37	0.59
1:L:56:SER:HB3	1:L:63:VAL:HG22	1.84	0.59
1:A:41:TRP:O	1:A:42:GLU:CB	2.50	0.59
1:A:124:ASN:HD21	1:A:128:PHE:HB2	1.68	0.59
1:A:170:SER:C	1:A:171:LEU:O	2.42	0.59
1:B:84:ARG:HA	1:B:89:GLN:O	2.03	0.59
1:C:107:TYR:C	1:C:107:TYR:CD1	2.79	0.59
1:D:186:PHE:CD2	1:D:196:ILE:HD11	2.38	0.59
1:E:12:ILE:HD12	1:E:15:ILE:HD12	1.85	0.59
1:E:171:LEU:C	1:E:173:GLN:H	2.09	0.59
1:G:81:SER:HB3	1:G:94:ARG:NH2	2.18	0.59
1:G:126:MET:HG2	1:H:55:LYS:NZ	2.18	0.59
1:H:98:PRO:C	1:H:100:TYR:N	2.61	0.59
1:H:222:MET:HB3	1:H:227:GLN:HB2	1.84	0.59
1:H:222:MET:HB3	1:H:227:GLN:CB	2.32	0.59
1:H:275:ASN:HB3	1:H:277:LYS:NZ	2.17	0.59
1:A:276:VAL:O	1:A:277:LYS:HG2	2.03	0.59
1:B:53:LEU:O	1:B:57:ILE:HG13	2.03	0.59
1:B:265:CYS:O	1:B:266:GLU:C	2.45	0.59
1:C:81:SER:N	1:C:90:ALA:HB1	2.17	0.59
1:C:170:SER:C	1:C:171:LEU:O	2.45	0.59
1:C:248:GLU:OE2	1:D:226:LEU:HG	2.02	0.59
1:E:171:LEU:HD22	1:E:175:TYR:HE1	1.67	0.59
1:E:266:GLU:O	1:E:270:GLU:OE2	2.20	0.59
1:H:275:ASN:O	1:H:277:LYS:HG3	2.03	0.59
1:I:39:PHE:CZ	1:I:257:PHE:HB2	2.38	0.59
1:A:273:GLY:O	1:A:274:LEU:O	2.20	0.58
1:B:103:GLU:CG	1:B:104:PHE:N	2.65	0.58
1:B:274:LEU:C	1:B:274:LEU:CD2	2.72	0.58
1:C:126:MET:C	1:C:128:PHE:H	2.11	0.58
1:E:65:PHE:CE2	1:E:268:ILE:HD11	2.37	0.58
1:F:49:ASN:C	1:F:49:ASN:HD22	2.09	0.58
1:F:165:ASP:CG	1:F:195:SER:HB2	2.27	0.58
1:G:37:GLN:O	1:G:281:ARG:NE	2.24	0.58
1:G:41:TRP:O	1:G:42:GLU:HB2	2.03	0.58
1:H:126:MET:HG2	1:H:128:PHE:CZ	2.38	0.58
1:J:84:ARG:HD3	1:J:89:GLN:O	2.02	0.58
1:B:98:PRO:O	1:B:100:TYR:N	2.35	0.58
1:D:37:GLN:O	1:D:281:ARG:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:284:ILE:N	1:D:284:ILE:CD1	2.65	0.58
1:E:62:TYR:HE2	1:E:79:ALA:HA	1.68	0.58
1:F:49:ASN:C	1:F:49:ASN:ND2	2.61	0.58
1:J:103:GLU:O	1:J:104:PHE:CB	2.50	0.58
1:L:43:ASN:CA	1:L:277:LYS:HE2	2.32	0.58
1:A:40:GLU:CG	1:A:279:LYS:NZ	2.66	0.58
1:A:188:HIS:O	1:A:188:HIS:CG	2.56	0.58
1:B:81:SER:O	1:B:82:GLY:O	2.21	0.58
1:E:171:LEU:HD22	1:E:175:TYR:CE1	2.39	0.58
1:F:223:THR:C	1:F:225:LYS:H	2.10	0.58
1:G:110:ARG:HG2	1:G:111:ASP:OD1	2.04	0.58
1:G:177:GLN:C	1:G:179:GLU:H	2.10	0.58
1:G:275:ASN:O	1:G:277:LYS:HE2	2.03	0.58
1:H:71:ILE:O	1:H:74:ILE:HD11	2.03	0.58
1:I:131:THR:O	1:I:135:GLU:HG3	2.03	0.58
1:K:260:SER:HA	1:K:263:GLU:CD	2.28	0.58
1:D:74:ILE:HG12	1:D:75:ALA:N	2.17	0.58
1:H:201:THR:CG2	1:I:159:VAL:HG11	2.24	0.58
1:A:283:ASP:O	1:A:284:ILE:HB	2.01	0.58
1:B:74:ILE:HG12	1:B:75:ALA:N	2.17	0.58
1:B:91:THR:HG22	1:B:92:VAL:N	2.17	0.58
1:D:269:ASN:CB	1:D:274:LEU:HA	2.30	0.58
1:E:20:ARG:HG2	1:E:146:GLU:CG	2.32	0.58
1:E:52:PHE:HE2	1:E:76:CYS:H	1.51	0.58
1:E:68:ASP:OD2	1:E:70:VAL:N	2.28	0.58
1:L:57:ILE:HG12	1:L:63:VAL:CG2	2.32	0.58
1:C:201:THR:HG22	1:D:159:VAL:HG11	1.86	0.58
1:F:261:ARG:HD2	1:F:261:ARG:N	2.13	0.58
1:I:117:MET:HE2	1:I:118:GLY:H	1.66	0.58
1:J:110:ARG:HB2	1:K:46:PRO:HB2	1.84	0.58
1:A:90:ALA:HB3	1:A:106:LEU:CD1	2.33	0.58
1:A:123:ASN:OD1	1:A:261:ARG:NH2	2.36	0.58
1:B:268:ILE:O	1:B:271:LEU:HB2	2.04	0.58
1:C:50:PRO:O	1:C:51:SER:HB3	2.04	0.58
1:D:41:TRP:O	1:D:277:LYS:HD2	2.04	0.58
1:D:79:ALA:HB1	1:D:94:ARG:NH2	2.19	0.58
1:E:258:LEU:O	1:E:261:ARG:HB2	2.04	0.58
1:G:102:LYS:HA	1:G:102:LYS:HE3	1.85	0.58
1:J:269:ASN:OD1	1:J:274:LEU:HA	2.04	0.58
1:J:275:ASN:O	1:J:277:LYS:N	2.37	0.58
1:A:108:ASN:CG	1:A:271:LEU:HG	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:85:ASP:C	1:C:87:TYR:H	2.12	0.58
1:E:74:ILE:HG12	1:E:75:ALA:H	1.66	0.58
1:F:110:ARG:HG2	1:F:111:ASP:CG	2.28	0.58
1:G:90:ALA:C	1:G:92:VAL:H	2.12	0.58
1:B:137:PHE:HE2	1:B:220:GLU:HB3	1.68	0.58
1:B:152:GLN:O	1:B:155:GLN:HG2	2.03	0.58
1:D:186:PHE:HD2	1:D:196:ILE:HD11	1.68	0.58
1:E:42:GLU:O	1:E:277:LYS:HG2	2.04	0.58
1:G:275:ASN:ND2	1:G:277:LYS:HD2	2.19	0.58
1:H:124:ASN:C	1:H:126:MET:N	2.59	0.58
1:I:38:LEU:O	1:I:39:PHE:HB2	2.04	0.58
1:I:87:TYR:OH	1:J:48:ILE:HA	2.04	0.58
1:A:226:LEU:HA	1:A:250:ILE:CG2	2.34	0.58
1:C:166:ASN:ND2	1:C:170:SER:HA	2.19	0.58
1:E:66:TYR:HB2	1:E:104:PHE:HZ	1.64	0.58
1:I:258:LEU:O	1:I:262:GLU:HG3	2.03	0.58
1:J:108:ASN:HD21	1:J:271:LEU:CB	2.17	0.58
1:J:188:HIS:O	1:J:189:GLU:CB	2.52	0.58
1:J:262:GLU:CA	1:J:278:VAL:HG21	2.33	0.58
1:K:247:ASP:O	1:K:250:ILE:HG12	2.04	0.58
1:L:44:LEU:HD23	1:L:275:ASN:OD1	2.04	0.58
1:A:172:LYS:NZ	1:L:11:SER:HB3	2.19	0.57
1:A:248:GLU:HB3	1:B:282:TYR:CE2	2.39	0.57
1:C:109:TYR:CE1	1:D:47:THR:HG23	2.39	0.57
1:C:214:LYS:HB3	1:C:214:LYS:HZ3	1.69	0.57
1:F:222:MET:HE3	1:F:227:GLN:CG	2.34	0.57
1:G:269:ASN:ND2	1:G:275:ASN:HB3	2.17	0.57
1:J:226:LEU:C	1:J:227:GLN:HG2	2.29	0.57
1:L:93:PHE:HB2	1:L:106:LEU:HD11	1.86	0.57
1:L:222:MET:HB3	1:L:227:GLN:CB	2.34	0.57
1:B:222:MET:HB3	1:B:227:GLN:HB2	1.86	0.57
1:E:57:ILE:O	1:E:61:GLY:HA2	2.05	0.57
1:H:258:LEU:HD22	1:H:280:PHE:CE1	2.39	0.57
1:J:39:PHE:CZ	1:J:257:PHE:HB2	2.38	0.57
1:K:63:VAL:CG1	1:K:121:ILE:HB	2.33	0.57
1:A:40:GLU:CG	1:A:279:LYS:HZ3	2.17	0.57
1:B:158:PRO:O	1:B:158:PRO:HG2	2.04	0.57
1:E:164:ASN:HB3	1:E:195:SER:O	2.03	0.57
1:E:263:GLU:O	1:E:267:LYS:HD2	2.04	0.57
1:F:43:ASN:HB2	1:F:277:LYS:HE2	1.85	0.57
1:F:226:LEU:O	1:F:227:GLN:CD	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:131:THR:HG22	1:J:132:PRO:HD3	1.86	0.57
1:K:247:ASP:HA	1:K:250:ILE:HG12	1.85	0.57
1:B:247:ASP:O	1:B:250:ILE:HG13	2.04	0.57
1:D:193:SER:O	1:D:194:ASP:HB2	2.03	0.57
1:E:38:LEU:O	1:E:39:PHE:CB	2.52	0.57
1:E:71:ILE:HD12	1:E:74:ILE:HD12	1.86	0.57
1:E:196:ILE:CG2	1:E:197:GLU:N	2.67	0.57
1:F:252:SER:HB2	1:G:37:GLN:OE1	2.04	0.57
1:G:105:LYS:HB2	1:G:105:LYS:HZ2	1.69	0.57
1:H:74:ILE:HG22	1:H:75:ALA:H	1.68	0.57
1:I:205:TYR:CZ	1:I:207:VAL:HB	2.39	0.57
1:K:188:HIS:O	1:K:189:GLU:HB3	2.04	0.57
1:L:109:TYR:HB3	1:L:112:MET:HB3	1.87	0.57
1:E:59:GLN:O	1:E:60:PHE:CG	2.58	0.57
1:E:143:GLU:OE2	1:F:153:ASN:ND2	2.36	0.57
1:E:249:GLN:CG	1:E:250:ILE:HD12	2.35	0.57
1:F:86:VAL:N	1:G:99:VAL:HG11	2.18	0.57
1:G:39:PHE:CZ	1:G:257:PHE:HB3	2.40	0.57
1:G:86:VAL:HG13	1:G:87:TYR:H	1.69	0.57
1:G:177:GLN:C	1:G:179:GLU:N	2.60	0.57
1:G:249:GLN:HA	1:G:252:SER:CB	2.31	0.57
1:H:227:GLN:O	1:H:228:THR:C	2.48	0.57
1:J:126:MET:O	1:J:128:PHE:N	2.35	0.57
1:K:222:MET:HB3	1:K:227:GLN:HB2	1.85	0.57
1:L:62:TYR:CE2	1:L:80:LEU:HG	2.39	0.57
1:D:106:LEU:HA	1:D:118:GLY:O	2.05	0.57
1:E:124:ASN:HD21	1:E:128:PHE:HD1	1.51	0.57
1:I:108:ASN:HD21	1:I:271:LEU:N	2.02	0.57
1:I:283:ASP:C	1:I:285:VAL:N	2.63	0.57
1:J:144:LEU:HD21	1:K:152:GLN:HG2	1.87	0.57
1:L:153:ASN:O	1:L:156:LYS:HB2	2.04	0.57
1:E:186:PHE:CD2	1:E:196:ILE:HD11	2.39	0.57
1:H:68:ASP:HB3	1:H:74:ILE:HD13	1.85	0.57
1:J:169:LEU:HB3	1:J:186:PHE:CE1	2.40	0.57
1:J:172:LYS:H	1:J:175:TYR:HD1	1.53	0.57
1:K:23:TRP:CE2	1:K:145:LYS:HE2	2.40	0.57
1:B:89:GLN:CD	1:B:91:THR:H	2.11	0.57
1:B:164:ASN:HB3	1:B:195:SER:HA	1.85	0.57
1:D:179:GLU:HG2	1:D:180:GLY:H	1.69	0.57
1:D:265:CYS:SG	1:D:276:VAL:CA	2.86	0.57
1:F:67:LYS:HB3	1:F:117:MET:CE	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:227:GLN:O	1:G:228:THR:C	2.47	0.57
1:H:42:GLU:OE1	1:H:279:LYS:HG3	2.04	0.57
1:H:92:VAL:HG12	1:H:93:PHE:H	1.68	0.57
1:K:117:MET:HB3	1:K:271:LEU:HD22	1.85	0.57
1:E:53:LEU:HA	1:E:63:VAL:CG2	2.34	0.57
1:F:47:THR:HB	1:F:73:TYR:HB2	1.85	0.57
1:F:275:ASN:HA	1:F:277:LYS:CE	2.35	0.57
1:G:84:ARG:HG2	1:G:84:ARG:HH11	1.70	0.57
1:G:262:GLU:O	1:G:264:ALA:N	2.33	0.57
1:H:168:GLN:OE1	1:H:169:LEU:HG	2.05	0.57
1:I:117:MET:SD	1:I:271:LEU:HD13	2.44	0.57
1:B:221:MET:HE3	1:B:221:MET:O	2.05	0.57
1:C:181:ASN:O	1:C:182:ALA:HB2	2.05	0.57
1:D:179:GLU:CG	1:D:180:GLY:H	2.18	0.57
1:H:20:ARG:HD2	1:H:146:GLU:CD	2.30	0.57
1:H:63:VAL:HG11	1:H:121:ILE:HB	1.87	0.57
1:H:157:THR:HG21	1:I:178:TYR:HE2	1.70	0.57
1:H:283:ASP:C	1:H:285:VAL:H	2.13	0.57
1:I:49:ASN:HD22	1:I:52:PHE:CB	2.18	0.57
1:L:258:LEU:HD22	1:L:262:GLU:HG3	1.87	0.57
1:C:124:ASN:C	1:C:126:MET:H	2.13	0.56
1:E:165:ASP:HB2	1:E:191:LEU:HD23	1.87	0.56
1:G:89:GLN:HG3	1:G:107:TYR:HE1	1.69	0.56
1:G:109:TYR:H	1:G:112:MET:HB2	1.70	0.56
1:L:271:LEU:O	1:L:272:TYR:CB	2.53	0.56
1:A:108:ASN:HB2	1:A:119:VAL:HG23	1.86	0.56
1:C:143:GLU:O	1:C:147:ILE:HG13	2.05	0.56
1:E:196:ILE:HG22	1:E:197:GLU:N	2.19	0.56
1:E:249:GLN:HG3	1:E:250:ILE:HD12	1.87	0.56
1:F:65:PHE:O	1:F:119:VAL:HG23	2.05	0.56
1:G:47:THR:CB	1:G:72:SER:O	2.53	0.56
1:G:170:SER:C	1:G:171:LEU:O	2.45	0.56
1:I:42:GLU:O	1:I:43:ASN:CB	2.52	0.56
1:J:12:ILE:O	1:L:181:ASN:ND2	2.38	0.56
1:J:105:LYS:HD3	1:J:114:GLU:OE2	2.05	0.56
1:A:261:ARG:HB3	1:A:278:VAL:CG1	2.34	0.56
1:B:51:SER:O	1:B:55:LYS:HG3	2.04	0.56
1:C:117:MET:CE	1:C:271:LEU:HD13	2.34	0.56
1:D:107:TYR:CD1	1:D:108:ASN:N	2.74	0.56
1:D:174:VAL:CG1	1:D:177:GLN:NE2	2.64	0.56
1:E:148:ILE:HG23	1:E:207:VAL:HG13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:201:THR:O	1:E:201:THR:CG2	2.53	0.56
1:F:179:GLU:OE2	1:F:181:ASN:HB2	2.04	0.56
1:G:117:MET:HB3	1:G:271:LEU:HD22	1.86	0.56
1:G:120:VAL:HG23	1:G:120:VAL:O	2.05	0.56
1:H:73:TYR:C	1:H:74:ILE:HD12	2.30	0.56
1:I:43:ASN:HB3	1:I:277:LYS:CE	2.35	0.56
1:J:31:LEU:HD22	1:J:221:MET:HG2	1.87	0.56
1:J:110:ARG:HB2	1:K:46:PRO:CB	2.35	0.56
1:J:281:ARG:HG3	1:J:281:ARG:HH11	1.69	0.56
1:L:106:LEU:HD23	1:L:118:GLY:O	2.04	0.56
1:L:115:GLU:O	1:L:116:ASP:HB2	2.05	0.56
1:A:56:SER:O	1:A:59:GLN:O	2.23	0.56
1:B:284:ILE:O	1:B:284:ILE:HG22	2.04	0.56
1:E:67:LYS:HB2	1:E:117:MET:HG2	1.87	0.56
1:E:84:ARG:NH1	1:E:90:ALA:HA	2.20	0.56
1:I:110:ARG:O	1:I:112:MET:N	2.38	0.56
1:I:110:ARG:CB	1:J:46:PRO:HB2	2.36	0.56
1:J:84:ARG:HB3	1:J:88:ASN:HA	1.86	0.56
1:L:101:GLN:CD	1:L:101:GLN:O	2.48	0.56
1:B:203:ALA:O	1:B:204:PRO:C	2.49	0.56
1:B:248:GLU:HB2	1:C:282:TYR:CE2	2.40	0.56
1:C:13:ASN:ND2	1:C:17:ARG:NE	2.52	0.56
1:C:44:LEU:C	1:C:44:LEU:HD12	2.31	0.56
1:C:80:LEU:HB3	1:C:90:ALA:CB	2.35	0.56
1:C:145:LYS:HD2	1:C:145:LYS:O	2.06	0.56
1:D:97:SER:C	1:D:99:VAL:N	2.63	0.56
1:D:269:ASN:ND2	1:D:274:LEU:O	2.38	0.56
1:F:171:LEU:O	1:F:173:GLN:N	2.37	0.56
1:G:248:GLU:HG3	1:G:249:GLN:N	2.20	0.56
1:H:161:ILE:HG12	1:H:198:VAL:HG22	1.88	0.56
1:I:124:ASN:HD22	1:I:126:MET:HB2	1.71	0.56
1:A:117:MET:CG	1:A:118:GLY:N	2.66	0.56
1:A:222:MET:HB3	1:A:227:GLN:CB	2.36	0.56
1:B:151:ASN:O	1:B:154:ALA:HB3	2.05	0.56
1:E:90:ALA:O	1:E:106:LEU:HD11	2.06	0.56
1:F:87:TYR:O	1:F:88:ASN:HB2	2.05	0.56
1:G:85:ASP:OD2	1:G:85:ASP:C	2.48	0.56
1:H:11:SER:N	1:J:181:ASN:ND2	2.51	0.56
1:H:171:LEU:HD22	1:H:175:TYR:CE1	2.40	0.56
1:J:144:LEU:HD21	1:K:152:GLN:CG	2.36	0.56
1:K:68:ASP:OD1	1:K:70:VAL:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:269:ASN:HB3	1:K:274:LEU:HD22	1.88	0.56
1:L:13:ASN:O	1:L:14:GLU:C	2.49	0.56
1:L:41:TRP:CA	1:L:277:LYS:HB3	2.35	0.56
1:L:274:LEU:CD2	1:L:275:ASN:H	2.18	0.56
1:B:144:LEU:HD21	1:C:152:GLN:NE2	2.21	0.56
1:C:60:PHE:HA	1:C:129:PRO:HG3	1.88	0.56
1:C:123:ASN:ND2	1:C:261:ARG:NH2	2.54	0.56
1:D:61:GLY:H	1:D:129:PRO:HG3	1.70	0.56
1:D:164:ASN:HD22	1:D:195:SER:HA	1.71	0.56
1:E:82:GLY:HA3	1:E:92:VAL:HG23	1.87	0.56
1:I:97:SER:OG	1:I:98:PRO:HD2	2.06	0.56
1:I:151:ASN:OD1	1:I:207:VAL:HG23	2.06	0.56
1:I:258:LEU:HD22	1:I:262:GLU:CG	2.36	0.56
1:K:197:GLU:OE1	1:K:199:PHE:CZ	2.59	0.56
1:B:40:GLU:N	1:B:278:VAL:O	2.39	0.56
1:C:43:ASN:O	1:C:44:LEU:HG	2.06	0.56
1:C:92:VAL:HG13	1:C:104:PHE:O	2.06	0.56
1:C:108:ASN:H	1:C:108:ASN:ND2	2.02	0.56
1:D:18:GLN:CG	1:D:22:ARG:HH12	2.15	0.56
1:D:205:TYR:CZ	1:D:207:VAL:HB	2.41	0.56
1:E:34:LEU:O	1:E:37:GLN:NE2	2.38	0.56
1:F:222:MET:HB3	1:F:227:GLN:HB3	1.87	0.56
1:G:173:GLN:HA	1:G:176:ASN:HD22	1.70	0.56
1:I:222:MET:HB3	1:I:227:GLN:CB	2.36	0.56
1:J:165:ASP:C	1:J:167:ASN:N	2.63	0.56
1:A:11:SER:HB3	1:B:176:ASN:HD21	1.70	0.56
1:A:108:ASN:O	1:A:109:TYR:O	2.23	0.56
1:B:85:ASP:OD2	1:B:89:GLN:HB3	2.05	0.56
1:B:90:ALA:O	1:B:91:THR:HB	2.06	0.56
1:B:249:GLN:HB2	1:C:222:MET:CE	2.36	0.56
1:C:43:ASN:N	1:C:277:LYS:NZ	2.48	0.56
1:C:269:ASN:ND2	1:C:276:VAL:CG2	2.68	0.56
1:C:275:ASN:HA	1:C:277:LYS:HE2	1.88	0.56
1:D:175:TYR:C	1:D:177:GLN:H	2.14	0.56
1:I:48:ILE:CD1	1:I:73:TYR:HB3	2.36	0.56
1:J:117:MET:HB3	1:J:271:LEU:HD21	1.87	0.56
1:K:59:GLN:O	1:K:61:GLY:N	2.39	0.56
1:K:171:LEU:HD22	1:K:175:TYR:CE1	2.40	0.56
1:K:193:SER:O	1:K:194:ASP:CB	2.52	0.56
1:A:52:PHE:CZ	1:A:77:ASN:ND2	2.74	0.56
1:B:41:TRP:C	1:B:277:LYS:NZ	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:277:LYS:O	1:B:279:LYS:N	2.38	0.56
1:E:16:GLN:NE2	1:E:20:ARG:NH2	2.51	0.56
1:E:106:LEU:HA	1:E:118:GLY:O	2.06	0.56
1:F:110:ARG:O	1:F:111:ASP:C	2.49	0.56
1:G:151:ASN:O	1:G:152:GLN:C	2.49	0.56
1:I:107:TYR:OH	1:I:109:TYR:CZ	2.58	0.56
1:I:188:HIS:O	1:I:189:GLU:CB	2.53	0.56
1:I:222:MET:HB3	1:I:227:GLN:HB2	1.87	0.56
1:J:110:ARG:NE	1:K:46:PRO:HG3	2.20	0.56
1:J:117:MET:SD	1:J:271:LEU:HD22	2.45	0.56
1:J:205:TYR:CE1	1:J:207:VAL:HB	2.40	0.56
1:K:172:LYS:HE3	1:L:179:GLU:OE1	2.06	0.56
1:L:104:PHE:CE2	1:L:118:GLY:HA3	2.41	0.56
1:L:124:ASN:C	1:L:126:MET:H	2.13	0.56
1:L:172:LYS:O	1:L:176:ASN:HB2	2.06	0.56
1:A:124:ASN:HD21	1:A:128:PHE:H	1.53	0.55
1:B:168:GLN:CD	1:B:169:LEU:N	2.64	0.55
1:D:23:TRP:O	1:D:27:TYR:HD1	1.89	0.55
1:D:177:GLN:NE2	1:D:184:VAL:HG13	2.22	0.55
1:D:179:GLU:OE2	1:D:181:ASN:HB2	2.06	0.55
1:E:45:PRO:C	1:E:47:THR:H	2.13	0.55
1:E:87:TYR:O	1:E:88:ASN:HB3	2.04	0.55
1:E:109:TYR:HD2	1:E:112:MET:HG3	1.71	0.55
1:F:150:VAL:HG11	1:G:156:LYS:HG2	1.88	0.55
1:H:171:LEU:O	1:H:174:VAL:N	2.38	0.55
1:J:47:THR:HG21	1:J:72:SER:HB3	1.89	0.55
1:K:159:VAL:HG12	1:L:183:PRO:HB3	1.86	0.55
1:K:249:GLN:HA	1:K:252:SER:OG	2.06	0.55
1:K:275:ASN:ND2	1:K:277:LYS:HE2	2.19	0.55
1:L:158:PRO:O	1:L:159:VAL:HB	2.06	0.55
1:B:259:LYS:O	1:B:263:GLU:HG3	2.05	0.55
1:D:85:ASP:OD2	1:D:89:GLN:N	2.33	0.55
1:D:165:ASP:C	1:D:167:ASN:N	2.61	0.55
1:D:261:ARG:HB3	1:D:278:VAL:CG1	2.36	0.55
1:F:91:THR:O	1:F:106:LEU:HG	2.05	0.55
1:H:62:TYR:O	1:H:63:VAL:HG12	2.06	0.55
1:I:261:ARG:O	1:I:264:ALA:HB3	2.06	0.55
1:J:78:GLY:HA3	1:J:95:ALA:HA	1.88	0.55
1:L:265:CYS:O	1:L:267:LYS:N	2.40	0.55
1:C:21:ASN:O	1:C:24:PHE:HB3	2.05	0.55
1:C:62:TYR:CE1	1:C:127:ALA:HB1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:219:ASN:HD22	1:C:219:ASN:N	2.03	0.55
1:C:265:CYS:HA	1:C:268:ILE:HG12	1.89	0.55
1:D:170:SER:O	1:D:173:GLN:HB3	2.06	0.55
1:F:13:ASN:HD21	1:H:179:GLU:CA	2.11	0.55
1:F:107:TYR:N	1:F:118:GLY:O	2.39	0.55
1:I:44:LEU:CD2	1:I:45:PRO:HD2	2.36	0.55
1:I:283:ASP:C	1:I:285:VAL:H	2.12	0.55
1:J:89:GLN:NE2	1:J:107:TYR:CZ	2.75	0.55
1:K:67:LYS:HG3	1:K:67:LYS:O	2.07	0.55
1:B:275:ASN:C	1:B:277:LYS:HD3	2.32	0.55
1:C:137:PHE:C	1:C:139:ALA:H	2.15	0.55
1:D:17:ARG:O	1:D:21:ASN:ND2	2.40	0.55
1:F:38:LEU:O	1:F:39:PHE:CB	2.54	0.55
1:H:278:VAL:HG23	1:H:279:LYS:N	2.21	0.55
1:I:123:ASN:ND2	1:I:261:ARG:NH2	2.46	0.55
1:J:177:GLN:C	1:J:179:GLU:N	2.64	0.55
1:K:35:ALA:HA	1:K:38:LEU:CD1	2.37	0.55
1:A:153:ASN:O	1:A:156:LYS:HB2	2.06	0.55
1:B:168:GLN:CD	1:B:168:GLN:C	2.74	0.55
1:B:267:LYS:O	1:B:270:GLU:HB2	2.06	0.55
1:F:164:ASN:C	1:F:165:ASP:OD2	2.50	0.55
1:G:137:PHE:CD2	1:G:221:MET:HB2	2.42	0.55
1:I:169:LEU:HB3	1:I:186:PHE:HE1	1.71	0.55
1:I:171:LEU:CB	1:J:185:ILE:HD13	2.36	0.55
1:J:40:GLU:N	1:J:280:PHE:O	2.39	0.55
1:J:162:ARG:NH1	1:J:197:GLU:OE1	2.38	0.55
1:J:162:ARG:NH1	1:K:193:SER:HA	2.22	0.55
1:L:97:SER:CB	1:L:98:PRO:HD2	2.36	0.55
1:A:124:ASN:C	1:A:126:MET:H	2.13	0.55
1:B:177:GLN:O	1:B:178:TYR:C	2.50	0.55
1:D:20:ARG:CD	1:D:146:GLU:OE1	2.55	0.55
1:D:213:GLN:HG3	1:E:207:VAL:CG1	2.37	0.55
1:E:66:TYR:O	1:E:73:TYR:HA	2.06	0.55
1:E:275:ASN:O	1:E:277:LYS:N	2.39	0.55
1:G:151:ASN:HB3	1:G:207:VAL:HG22	1.89	0.55
1:H:168:GLN:HB3	1:H:188:HIS:NE2	2.21	0.55
1:I:271:LEU:C	1:I:273:GLY:N	2.62	0.55
1:J:11:SER:O	1:J:12:ILE:C	2.50	0.55
1:J:227:GLN:O	1:J:228:THR:O	2.25	0.55
1:K:117:MET:CG	1:K:118:GLY:H	2.20	0.55
1:K:158:PRO:O	1:K:159:VAL:CG2	2.48	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:73:TYR:CE2	1:L:271:LEU:HD13	2.36	0.55
1:A:169:LEU:HD21	1:A:174:VAL:CG2	2.37	0.55
1:C:203:ALA:O	1:C:204:PRO:C	2.48	0.55
1:D:151:ASN:O	1:D:152:GLN:C	2.47	0.55
1:E:115:GLU:OE1	1:E:116:ASP:N	2.40	0.55
1:E:203:ALA:O	1:E:204:PRO:C	2.50	0.55
1:F:41:TRP:CA	1:F:278:VAL:HA	2.26	0.55
1:F:86:VAL:HG12	1:G:100:TYR:HB2	1.88	0.55
1:G:166:ASN:OD1	1:G:170:SER:HA	2.06	0.55
1:J:90:ALA:C	1:J:92:VAL:H	2.12	0.55
1:A:200:LYS:HE2	1:A:202:ASP:OD1	2.06	0.55
1:D:120:VAL:O	1:D:121:ILE:C	2.49	0.55
1:H:44:LEU:HB3	1:H:45:PRO:CD	2.28	0.55
1:J:58:HIS:O	1:J:130:THR:N	2.39	0.55
1:J:188:HIS:O	1:J:188:HIS:CG	2.60	0.55
1:J:256:VAL:HG11	1:K:33:SER:HB2	1.89	0.55
1:K:66:TYR:HE2	1:K:68:ASP:HA	1.71	0.55
1:C:265:CYS:HA	1:C:268:ILE:CD1	2.37	0.55
1:F:69:PRO:HG2	1:F:70:VAL:H	1.70	0.55
1:G:137:PHE:HE2	1:G:220:GLU:HB3	1.71	0.55
1:H:144:LEU:O	1:H:148:ILE:HG13	2.07	0.55
1:K:20:ARG:CD	1:K:146:GLU:OE1	2.55	0.55
1:L:274:LEU:CD2	1:L:276:VAL:H	2.14	0.55
1:A:144:LEU:O	1:A:148:ILE:HG13	2.06	0.55
1:A:205:TYR:CD2	1:L:209:LYS:HD3	2.42	0.55
1:D:151:ASN:O	1:D:154:ALA:HB3	2.07	0.55
1:E:20:ARG:CZ	1:E:146:GLU:OE1	2.55	0.55
1:E:61:GLY:HA2	1:E:123:ASN:HB2	1.89	0.55
1:E:250:ILE:HD12	1:E:250:ILE:H	1.72	0.55
1:G:187:ALA:O	1:G:188:HIS:HB2	2.07	0.55
1:G:209:LYS:HD3	1:H:205:TYR:CD2	2.42	0.55
1:H:91:THR:HG22	1:H:92:VAL:CG2	2.37	0.55
1:K:269:ASN:ND2	1:K:274:LEU:HA	2.21	0.55
1:L:53:LEU:HD23	1:L:63:VAL:HG11	1.88	0.55
1:F:42:GLU:O	1:F:43:ASN:HB2	2.07	0.54
1:F:261:ARG:HG2	1:F:261:ARG:NH1	2.22	0.54
1:H:109:TYR:O	1:H:113:LYS:HB2	2.07	0.54
1:J:67:LYS:HE2	1:J:117:MET:HG2	1.88	0.54
1:J:86:VAL:HA	1:K:99:VAL:CG1	2.36	0.54
1:J:222:MET:CA	1:J:227:GLN:HG3	2.37	0.54
1:J:263:GLU:O	1:J:263:GLU:HG2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:43:ASN:CB	1:K:277:LYS:HD2	2.27	0.54
1:K:188:HIS:HB3	1:K:191:LEU:CD2	2.37	0.54
1:K:248:GLU:OE1	1:L:226:LEU:HG	2.07	0.54
1:C:119:VAL:CG1	1:C:268:ILE:HG22	2.33	0.54
1:D:43:ASN:N	1:D:277:LYS:CD	2.69	0.54
1:D:169:LEU:HD12	1:D:188:HIS:HB2	1.89	0.54
1:I:258:LEU:HD22	1:I:262:GLU:HG3	1.87	0.54
1:A:164:ASN:ND2	1:B:191:LEU:O	2.40	0.54
1:C:63:VAL:HG12	1:C:121:ILE:O	2.07	0.54
1:C:193:SER:O	1:C:194:ASP:HB2	2.07	0.54
1:G:262:GLU:C	1:G:264:ALA:N	2.60	0.54
1:H:86:VAL:CA	1:I:99:VAL:HG11	2.36	0.54
1:H:221:MET:HA	1:H:221:MET:HE3	1.90	0.54
1:I:110:ARG:HB3	1:J:46:PRO:HB2	1.88	0.54
1:K:189:GLU:O	1:K:191:LEU:N	2.41	0.54
1:A:117:MET:HE2	1:A:271:LEU:CB	2.37	0.54
1:F:205:TYR:CZ	1:F:207:VAL:HB	2.42	0.54
1:H:44:LEU:CB	1:H:45:PRO:HD2	2.35	0.54
1:I:162:ARG:CD	1:I:164:ASN:HD21	2.19	0.54
1:I:168:GLN:CD	1:I:168:GLN:C	2.76	0.54
1:J:87:TYR:O	1:J:88:ASN:HB2	2.08	0.54
1:J:108:ASN:HD21	1:J:271:LEU:CA	2.20	0.54
1:J:209:LYS:HB3	1:K:205:TYR:CE2	2.43	0.54
1:K:93:PHE:HE2	1:K:95:ALA:HB2	1.72	0.54
1:D:89:GLN:NE2	1:D:107:TYR:CE2	2.76	0.54
1:E:130:THR:C	1:E:132:PRO:HD2	2.33	0.54
1:F:42:GLU:O	1:F:277:LYS:HD3	2.08	0.54
1:G:114:GLU:HG2	1:G:115:GLU:N	2.22	0.54
1:G:123:ASN:OD1	1:G:261:ARG:NH2	2.41	0.54
1:G:175:TYR:C	1:G:177:GLN:N	2.64	0.54
1:H:13:ASN:HD22	1:J:179:GLU:CG	2.19	0.54
1:H:53:LEU:HG	1:H:65:PHE:HZ	1.63	0.54
1:H:108:ASN:ND2	1:H:271:LEU:HD11	2.22	0.54
1:K:67:LYS:CD	1:K:117:MET:HG2	2.37	0.54
1:K:201:THR:HG23	1:L:159:VAL:HG11	1.88	0.54
1:L:164:ASN:HB3	1:L:195:SER:CA	2.36	0.54
1:A:271:LEU:O	1:A:272:TYR:HB2	2.06	0.54
1:E:153:ASN:O	1:E:156:LYS:HB2	2.06	0.54
1:E:164:ASN:O	1:E:166:ASN:N	2.34	0.54
1:E:280:PHE:C	1:E:282:TYR:H	2.15	0.54
1:F:158:PRO:O	1:F:159:VAL:HB	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:17:ARG:CG	1:G:20:ARG:HH21	2.10	0.54
1:I:108:ASN:ND2	1:I:271:LEU:N	2.55	0.54
1:I:121:ILE:HG12	1:I:264:ALA:HB1	1.88	0.54
1:K:65:PHE:CD1	1:K:121:ILE:HD11	2.41	0.54
1:L:11:SER:C	1:L:12:ILE:HG13	2.33	0.54
1:L:39:PHE:HA	1:L:279:LYS:O	2.08	0.54
1:A:108:ASN:ND2	1:A:271:LEU:HG	2.22	0.54
1:B:31:LEU:HB3	1:B:134:LEU:HD22	1.90	0.54
1:D:106:LEU:HD23	1:D:118:GLY:O	2.08	0.54
1:D:209:LYS:O	1:D:212:ALA:HB3	2.07	0.54
1:F:44:LEU:HD23	1:F:275:ASN:ND2	2.22	0.54
1:F:148:ILE:CG2	1:F:207:VAL:HG13	2.37	0.54
1:F:177:GLN:O	1:F:179:GLU:N	2.40	0.54
1:I:34:LEU:HD13	1:I:222:MET:HE1	1.88	0.54
1:I:124:ASN:O	1:I:126:MET:N	2.40	0.54
1:K:85:ASP:C	1:K:87:TYR:N	2.66	0.54
1:L:154:ALA:C	1:L:156:LYS:H	2.15	0.54
1:A:93:PHE:N	1:A:104:PHE:HB2	2.19	0.54
1:A:280:PHE:CB	1:A:283:ASP:HB2	2.37	0.54
1:B:98:PRO:C	1:B:100:TYR:H	2.16	0.54
1:C:42:GLU:N	1:C:277:LYS:NZ	2.56	0.54
1:C:117:MET:SD	1:C:271:LEU:HD13	2.48	0.54
1:C:188:HIS:O	1:C:190:ALA:N	2.38	0.54
1:C:188:HIS:C	1:C:190:ALA:H	2.16	0.54
1:D:62:TYR:C	1:D:62:TYR:CD2	2.85	0.54
1:D:152:GLN:O	1:D:155:GLN:HG2	2.08	0.54
1:F:271:LEU:O	1:F:272:TYR:HB2	2.07	0.54
1:F:275:ASN:HA	1:F:277:LYS:HE3	1.90	0.54
1:G:50:PRO:O	1:G:52:PHE:N	2.38	0.54
1:G:89:GLN:HG3	1:G:107:TYR:CE1	2.43	0.54
1:G:168:GLN:HB3	1:G:188:HIS:CD2	2.43	0.54
1:I:42:GLU:C	1:I:277:LYS:NZ	2.63	0.54
1:J:124:ASN:ND2	1:J:128:PHE:HB2	2.08	0.54
1:L:162:ARG:HH21	1:L:164:ASN:HB2	1.73	0.54
1:C:268:ILE:CD1	1:C:275:ASN:HB2	2.38	0.54
1:D:83:GLN:HG3	1:D:83:GLN:O	2.08	0.54
1:E:268:ILE:HG23	1:E:269:ASN:HD22	1.72	0.54
1:G:213:GLN:HG3	1:H:207:VAL:CG1	2.38	0.54
1:G:249:GLN:O	1:G:250:ILE:C	2.49	0.54
1:J:30:TYR:O	1:J:34:LEU:HB2	2.08	0.54
1:J:80:LEU:HB3	1:J:90:ALA:CB	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:186:PHE:CD2	1:L:196:ILE:HD11	2.43	0.54
1:A:90:ALA:O	1:A:91:THR:C	2.50	0.54
1:D:60:PHE:O	1:D:60:PHE:HD1	1.91	0.54
1:D:96:ALA:O	1:D:97:SER:HB3	2.08	0.54
1:D:164:ASN:ND2	1:D:165:ASP:OD2	2.40	0.54
1:D:265:CYS:SG	1:D:275:ASN:O	2.66	0.54
1:G:87:TYR:O	1:G:88:ASN:HB2	2.07	0.54
1:I:213:GLN:HG3	1:J:207:VAL:CG1	2.38	0.54
1:J:62:TYR:O	1:J:63:VAL:HG12	2.07	0.54
1:J:252:SER:HB2	1:K:37:GLN:OE1	2.08	0.54
1:K:117:MET:HB2	1:K:271:LEU:CD1	2.32	0.54
1:K:269:ASN:CG	1:K:275:ASN:H	2.16	0.54
1:K:282:TYR:O	1:K:283:ASP:C	2.50	0.54
1:L:110:ARG:O	1:L:111:ASP:CG	2.50	0.54
1:A:72:SER:OG	1:A:73:TYR:N	2.41	0.53
1:A:111:ASP:OD1	1:A:111:ASP:N	2.41	0.53
1:A:168:GLN:HE21	1:A:168:GLN:C	2.15	0.53
1:A:248:GLU:HB3	1:B:282:TYR:CD2	2.43	0.53
1:F:34:LEU:O	1:F:37:GLN:NE2	2.41	0.53
1:G:85:ASP:OD2	1:G:86:VAL:N	2.40	0.53
1:H:174:VAL:O	1:H:177:GLN:HB3	2.08	0.53
1:I:123:ASN:HD22	1:I:261:ARG:HH21	1.50	0.53
1:I:172:LYS:CA	1:I:175:TYR:HB2	2.38	0.53
1:I:278:VAL:HG12	1:I:279:LYS:H	1.69	0.53
1:C:97:SER:O	1:C:100:TYR:O	2.27	0.53
1:E:118:GLY:O	1:E:119:VAL:HG23	2.09	0.53
1:F:110:ARG:HD2	1:G:46:PRO:HG2	1.88	0.53
1:G:172:LYS:HE2	1:H:179:GLU:CD	2.32	0.53
1:H:55:LYS:HD3	1:H:59:GLN:HE22	1.74	0.53
1:I:49:ASN:HD22	1:I:52:PHE:HB2	1.73	0.53
1:I:259:LYS:HD2	1:J:281:ARG:NH2	2.23	0.53
1:L:69:PRO:C	1:L:70:VAL:HG22	2.32	0.53
1:L:133:THR:HG21	1:L:224:PHE:CE2	2.44	0.53
1:B:97:SER:OG	1:B:98:PRO:CD	2.56	0.53
1:C:137:PHE:HE2	1:C:220:GLU:HB3	1.73	0.53
1:D:47:THR:HG21	1:D:72:SER:HB3	1.90	0.53
1:D:119:VAL:HG21	1:D:268:ILE:HG13	1.89	0.53
1:D:260:SER:O	1:D:261:ARG:C	2.52	0.53
1:H:192:ASP:O	1:H:195:SER:HB3	2.07	0.53
1:H:263:GLU:HG2	1:H:263:GLU:O	2.08	0.53
1:J:200:LYS:HE2	1:J:202:ASP:OD1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:172:LYS:H	1:K:175:TYR:HD1	1.56	0.53
1:A:188:HIS:O	1:A:189:GLU:HB3	2.07	0.53
1:B:97:SER:OG	1:B:98:PRO:HD3	2.07	0.53
1:C:158:PRO:O	1:C:159:VAL:CB	2.55	0.53
1:D:81:SER:C	1:D:90:ALA:HB1	2.33	0.53
1:D:213:GLN:HG3	1:E:207:VAL:HG12	1.89	0.53
1:F:133:THR:HG21	1:F:224:PHE:CE2	2.43	0.53
1:F:169:LEU:CD2	1:F:170:SER:H	2.20	0.53
1:G:11:SER:O	1:G:12:ILE:C	2.51	0.53
1:G:44:LEU:CD2	1:G:277:LYS:NZ	2.72	0.53
1:H:126:MET:C	1:H:128:PHE:H	2.16	0.53
1:H:222:MET:O	1:H:227:GLN:HG2	2.08	0.53
1:I:124:ASN:ND2	1:I:128:PHE:HB2	2.24	0.53
1:J:45:PRO:O	1:J:47:THR:N	2.41	0.53
1:J:226:LEU:HD22	1:J:280:PHE:HE2	1.71	0.53
1:L:59:GLN:O	1:L:60:PHE:O	2.25	0.53
1:L:170:SER:C	1:L:171:LEU:O	2.48	0.53
1:A:91:THR:O	1:A:92:VAL:CB	2.55	0.53
1:B:24:PHE:O	1:B:28:LEU:HB2	2.09	0.53
1:C:93:PHE:HB2	1:C:106:LEU:HD23	1.90	0.53
1:D:40:GLU:O	1:D:278:VAL:C	2.51	0.53
1:E:11:SER:N	1:G:181:ASN:ND2	2.51	0.53
1:E:37:GLN:HG2	1:E:281:ARG:CD	2.38	0.53
1:E:147:ILE:HG23	1:F:156:LYS:HG3	1.89	0.53
1:F:106:LEU:HD22	1:F:120:VAL:CG2	2.38	0.53
1:F:219:ASN:O	1:F:220:GLU:C	2.50	0.53
1:F:225:LYS:O	1:F:226:LEU:O	2.27	0.53
1:G:125:ASP:O	1:H:55:LYS:NZ	2.41	0.53
1:G:126:MET:HE3	1:G:128:PHE:CE1	2.42	0.53
1:H:51:SER:O	1:H:55:LYS:HB2	2.08	0.53
1:I:145:LYS:HD2	1:I:145:LYS:O	2.08	0.53
1:I:277:LYS:O	1:I:278:VAL:HG23	2.08	0.53
1:K:275:ASN:C	1:K:277:LYS:HD3	2.33	0.53
1:L:57:ILE:O	1:L:61:GLY:HA2	2.08	0.53
1:L:67:LYS:O	1:L:68:ASP:HB3	2.07	0.53
1:A:67:LYS:HA	1:A:73:TYR:HA	1.90	0.53
1:D:39:PHE:CE1	1:D:258:LEU:HD12	2.44	0.53
1:D:85:ASP:OD2	1:D:87:TYR:N	2.41	0.53
1:D:95:ALA:HB3	1:D:102:LYS:N	2.22	0.53
1:D:171:LEU:O	1:D:173:GLN:N	2.37	0.53
1:E:53:LEU:HG	1:E:54:GLU:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:93:PHE:CB	1:E:104:PHE:HB2	2.32	0.53
1:G:24:PHE:CZ	1:G:28:LEU:HD12	2.43	0.53
1:G:58:HIS:O	1:G:130:THR:N	2.42	0.53
1:G:168:GLN:HB3	1:G:188:HIS:CE1	2.43	0.53
1:I:11:SER:N	1:K:179:GLU:HB3	2.24	0.53
1:K:188:HIS:HB3	1:K:191:LEU:CG	2.39	0.53
1:L:179:GLU:HG3	1:L:181:ASN:HB2	1.90	0.53
1:A:14:GLU:HA	1:A:17:ARG:CG	2.38	0.53
1:C:24:PHE:HD1	1:C:138:ALA:O	1.91	0.53
1:C:47:THR:CG2	1:C:72:SER:HB3	2.39	0.53
1:C:57:ILE:HA	1:C:62:TYR:O	2.08	0.53
1:C:93:PHE:HB3	1:C:104:PHE:CE1	2.44	0.53
1:E:71:ILE:O	1:E:73:TYR:N	2.41	0.53
1:E:98:PRO:C	1:E:99:VAL:HG12	2.33	0.53
1:H:74:ILE:CG2	1:H:75:ALA:N	2.72	0.53
1:H:82:GLY:CA	1:H:91:THR:HB	2.37	0.53
1:I:37:GLN:O	1:I:281:ARG:HD2	2.08	0.53
1:J:111:ASP:O	1:J:112:MET:C	2.51	0.53
1:K:57:ILE:HG21	1:K:261:ARG:NH1	2.24	0.53
1:K:90:ALA:HB1	1:K:106:LEU:HD12	1.91	0.53
1:K:174:VAL:HG13	1:K:177:GLN:NE2	2.23	0.53
1:B:258:LEU:CD2	1:B:262:GLU:HG3	2.35	0.53
1:C:67:LYS:N	1:C:117:MET:HE2	2.24	0.53
1:D:83:GLN:O	1:D:84:ARG:C	2.52	0.53
1:E:20:ARG:NE	1:E:146:GLU:OE2	2.42	0.53
1:F:90:ALA:O	1:F:92:VAL:N	2.40	0.53
1:F:104:PHE:HD2	1:F:118:GLY:HA2	1.73	0.53
1:H:66:TYR:OH	1:H:102:LYS:HG2	2.09	0.53
1:H:164:ASN:O	1:H:164:ASN:CG	2.52	0.53
1:I:153:ASN:O	1:I:155:GLN:N	2.42	0.53
1:I:168:GLN:OE1	1:I:169:LEU:HG	2.08	0.53
1:I:277:LYS:O	1:I:278:VAL:CB	2.57	0.53
1:J:169:LEU:HD22	1:J:170:SER:H	1.73	0.53
1:K:108:ASN:HA	1:K:112:MET:CB	2.38	0.53
1:K:117:MET:HG3	1:K:118:GLY:H	1.71	0.53
1:K:264:ALA:O	1:K:265:CYS:C	2.51	0.53
1:A:109:TYR:CZ	1:A:111:ASP:CG	2.87	0.53
1:C:39:PHE:CZ	1:C:257:PHE:HB2	2.44	0.53
1:C:170:SER:O	1:C:171:LEU:O	2.27	0.53
1:D:165:ASP:OD1	1:D:195:SER:HB3	2.09	0.53
1:E:221:MET:HE3	1:E:221:MET:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:173:GLN:OE1	1:F:173:GLN:HA	2.08	0.53
1:J:60:PHE:O	1:J:61:GLY:C	2.52	0.53
1:J:66:TYR:CE2	1:J:68:ASP:HA	2.43	0.53
1:L:49:ASN:C	1:L:49:ASN:OD1	2.51	0.53
1:A:49:ASN:HB3	1:A:52:PHE:HB3	1.90	0.53
1:A:66:TYR:HE2	1:A:68:ASP:HA	1.74	0.53
1:B:157:THR:HG21	1:C:178:TYR:CE2	2.43	0.53
1:C:201:THR:HG21	1:E:183:PRO:HG3	1.90	0.53
1:G:213:GLN:HG2	1:H:208:ASP:OD1	2.09	0.53
1:G:258:LEU:HD21	1:G:278:VAL:HG13	1.91	0.53
1:I:123:ASN:HD21	1:I:261:ARG:HH21	1.50	0.53
1:K:76:CYS:SG	1:K:95:ALA:HB2	2.49	0.53
1:L:107:TYR:CE2	1:L:109:TYR:CZ	2.97	0.53
1:B:34:LEU:O	1:B:37:GLN:HB3	2.09	0.52
1:B:267:LYS:HA	1:B:270:GLU:OE2	2.08	0.52
1:C:15:ILE:O	1:C:17:ARG:N	2.42	0.52
1:C:66:TYR:OH	1:C:102:LYS:HE2	2.09	0.52
1:C:177:GLN:HG2	1:C:179:GLU:HG3	1.92	0.52
1:C:249:GLN:O	1:C:250:ILE:C	2.51	0.52
1:C:283:ASP:C	1:C:284:ILE:HD12	2.34	0.52
1:D:124:ASN:CG	1:D:125:ASP:N	2.66	0.52
1:E:109:TYR:CD2	1:E:112:MET:HG3	2.44	0.52
1:H:215:ASN:O	1:H:219:ASN:ND2	2.42	0.52
1:K:159:VAL:HG11	1:L:183:PRO:HB3	1.89	0.52
1:L:20:ARG:HD3	1:L:146:GLU:HG3	1.91	0.52
1:A:79:ALA:O	1:A:80:LEU:C	2.50	0.52
1:A:109:TYR:CE2	1:A:111:ASP:HB2	2.43	0.52
1:B:227:GLN:O	1:B:228:THR:O	2.27	0.52
1:B:280:PHE:O	1:B:282:TYR:N	2.35	0.52
1:C:13:ASN:HA	1:C:16:GLN:CB	2.38	0.52
1:C:20:ARG:NH2	1:C:143:GLU:HG3	2.24	0.52
1:D:113:LYS:HD2	1:D:271:LEU:HD23	1.89	0.52
1:D:222:MET:HE3	1:D:227:GLN:HB3	1.92	0.52
1:E:84:ARG:HB3	1:E:88:ASN:CA	2.39	0.52
1:E:99:VAL:HG13	1:E:100:TYR:N	2.14	0.52
1:E:282:TYR:CG	1:E:283:ASP:N	2.76	0.52
1:F:84:ARG:HG3	1:F:84:ARG:NH1	2.24	0.52
1:G:136:LEU:HG	1:H:23:TRP:CZ2	2.43	0.52
1:H:39:PHE:CZ	1:H:257:PHE:HB2	2.43	0.52
1:J:125:ASP:HB3	1:K:55:LYS:CE	2.39	0.52
1:K:57:ILE:CG1	1:K:63:VAL:HG11	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:108:ASN:ND2	1:B:119:VAL:CG2	2.68	0.52
1:C:225:LYS:O	1:C:226:LEU:HB3	2.09	0.52
1:C:265:CYS:HA	1:C:268:ILE:HD11	1.91	0.52
1:D:261:ARG:CB	1:D:278:VAL:HG11	2.39	0.52
1:E:279:LYS:C	1:E:281:ARG:N	2.67	0.52
1:G:258:LEU:HD21	1:G:278:VAL:CG1	2.39	0.52
1:G:272:TYR:CD2	1:G:272:TYR:N	2.77	0.52
1:H:97:SER:CB	1:H:98:PRO:CD	2.78	0.52
1:I:117:MET:HE3	1:I:271:LEU:HD22	1.89	0.52
1:I:124:ASN:HD21	1:I:128:PHE:HB2	1.74	0.52
1:I:226:LEU:O	1:I:227:GLN:HG2	2.09	0.52
1:J:108:ASN:OD1	1:J:271:LEU:N	2.42	0.52
1:K:85:ASP:OD2	1:K:85:ASP:N	2.42	0.52
1:L:165:ASP:O	1:L:166:ASN:HB2	2.08	0.52
1:L:265:CYS:O	1:L:266:GLU:C	2.52	0.52
1:B:269:ASN:ND2	1:B:275:ASN:H	2.06	0.52
1:C:280:PHE:O	1:C:281:ARG:HB3	2.09	0.52
1:D:85:ASP:OD1	1:D:89:GLN:HB3	2.09	0.52
1:D:109:TYR:N	1:D:112:MET:HB2	2.25	0.52
1:D:172:LYS:H	1:D:175:TYR:HD1	1.58	0.52
1:E:222:MET:HB3	1:E:227:GLN:HB2	1.92	0.52
1:E:275:ASN:ND2	1:E:277:LYS:HE2	2.24	0.52
1:F:79:ALA:O	1:F:80:LEU:C	2.51	0.52
1:G:269:ASN:N	1:G:269:ASN:ND2	2.56	0.52
1:H:124:ASN:O	1:H:126:MET:N	2.39	0.52
1:I:68:ASP:CG	1:I:69:PRO:HD2	2.34	0.52
1:K:43:ASN:ND2	1:K:275:ASN:HA	2.23	0.52
1:K:129:PRO:C	1:K:132:PRO:HD2	2.35	0.52
1:L:93:PHE:CE1	1:L:120:VAL:HG22	2.45	0.52
1:B:117:MET:HG3	1:B:118:GLY:H	1.73	0.52
1:D:31:LEU:HD22	1:D:221:MET:HG2	1.92	0.52
1:D:59:GLN:O	1:D:60:PHE:CD1	2.63	0.52
1:G:44:LEU:HD21	1:G:277:LYS:NZ	2.24	0.52
1:G:276:VAL:C	1:G:277:LYS:HD3	2.35	0.52
1:I:266:GLU:HA	1:I:269:ASN:ND2	2.21	0.52
1:I:277:LYS:O	1:I:278:VAL:HB	2.09	0.52
1:J:41:TRP:HH2	1:J:121:ILE:HG21	1.74	0.52
1:L:27:TYR:O	1:L:31:LEU:HG	2.09	0.52
1:A:282:TYR:O	1:A:283:ASP:C	2.52	0.52
1:B:145:LYS:HD2	1:B:145:LYS:O	2.09	0.52
1:B:201:THR:O	1:B:201:THR:CG2	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:168:GLN:CB	1:C:188:HIS:NE2	2.72	0.52
1:C:284:ILE:HD12	1:C:284:ILE:N	2.25	0.52
1:F:126:MET:SD	1:G:33:SER:HB3	2.50	0.52
1:G:113:LYS:HE3	1:G:271:LEU:HG	1.92	0.52
1:G:133:THR:HG21	1:G:224:PHE:CE2	2.45	0.52
1:G:249:GLN:NE2	1:H:222:MET:HG3	2.25	0.52
1:K:247:ASP:HA	1:K:250:ILE:CG1	2.40	0.52
1:L:17:ARG:O	1:L:21:ASN:ND2	2.42	0.52
1:B:213:GLN:NE2	1:C:211:ASN:CG	2.68	0.52
1:F:84:ARG:NH1	1:F:88:ASN:OD1	2.41	0.52
1:F:108:ASN:O	1:F:109:TYR:CB	2.57	0.52
1:G:47:THR:HB	1:G:72:SER:O	2.08	0.52
1:G:255:THR:CG2	1:G:259:LYS:HB2	2.39	0.52
1:H:41:TRP:CE3	1:H:277:LYS:HB2	2.44	0.52
1:H:43:ASN:C	1:H:277:LYS:HZ1	2.17	0.52
1:H:108:ASN:O	1:H:109:TYR:CB	2.58	0.52
1:H:113:LYS:HD3	1:H:114:GLU:N	2.25	0.52
1:H:147:ILE:HG12	1:I:156:LYS:HD3	1.91	0.52
1:K:108:ASN:HA	1:K:112:MET:HB3	1.91	0.52
1:A:38:LEU:O	1:A:39:PHE:HB2	2.10	0.52
1:B:17:ARG:HA	1:B:20:ARG:HD3	1.92	0.52
1:C:168:GLN:C	1:C:168:GLN:CD	2.77	0.52
1:D:226:LEU:HG	1:D:226:LEU:O	2.09	0.52
1:E:78:GLY:HA3	1:E:95:ALA:CA	2.32	0.52
1:F:105:LYS:NZ	1:F:114:GLU:HB2	2.25	0.52
1:F:197:GLU:HG2	1:F:199:PHE:CZ	2.45	0.52
1:F:201:THR:O	1:F:201:THR:CG2	2.58	0.52
1:G:121:ILE:HD11	1:G:268:ILE:CD1	2.39	0.52
1:I:226:LEU:O	1:I:227:GLN:CD	2.53	0.52
1:I:277:LYS:HG3	1:I:278:VAL:N	2.20	0.52
1:J:63:VAL:O	1:J:63:VAL:CG1	2.56	0.52
1:J:154:ALA:C	1:J:156:LYS:H	2.16	0.52
1:L:117:MET:CG	1:L:271:LEU:HD21	2.35	0.52
1:B:107:TYR:CE2	1:B:109:TYR:HB2	2.45	0.52
1:B:188:HIS:O	1:B:189:GLU:CB	2.56	0.52
1:B:226:LEU:C	1:B:226:LEU:HD12	2.35	0.52
1:C:44:LEU:HA	1:C:275:ASN:OD1	2.10	0.52
1:D:223:THR:HG23	1:D:250:ILE:HG13	1.92	0.52
1:G:143:GLU:OE2	1:H:153:ASN:ND2	2.37	0.52
1:G:226:LEU:C	1:G:227:GLN:HG2	2.35	0.52
1:H:67:LYS:N	1:H:117:MET:SD	2.81	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:248:GLU:HB2	1:I:282:TYR:CZ	2.44	0.52
1:I:146:GLU:O	1:I:149:SER:HB3	2.10	0.52
1:J:78:GLY:HA3	1:J:94:ARG:O	2.09	0.52
1:A:27:TYR:O	1:A:31:LEU:HG	2.09	0.52
1:A:44:LEU:O	1:A:45:PRO:C	2.52	0.52
1:C:125:ASP:CG	1:C:259:LYS:HZ3	2.18	0.52
1:C:268:ILE:O	1:C:271:LEU:HD23	2.10	0.52
1:D:280:PHE:HB2	1:D:283:ASP:CG	2.34	0.52
1:E:60:PHE:CD1	1:E:60:PHE:O	2.62	0.52
1:E:60:PHE:O	1:E:62:TYR:N	2.43	0.52
1:F:103:GLU:C	1:F:104:PHE:HD1	2.18	0.52
1:F:203:ALA:O	1:F:204:PRO:C	2.51	0.52
1:G:275:ASN:C	1:G:277:LYS:CD	2.83	0.52
1:J:66:TYR:HB2	1:J:104:PHE:HZ	1.63	0.52
1:K:67:LYS:HE2	1:K:117:MET:N	2.25	0.52
1:L:41:TRP:HB3	1:L:277:LYS:HE3	1.91	0.52
1:A:110:ARG:CG	1:A:111:ASP:H	2.22	0.51
1:A:201:THR:O	1:A:201:THR:HG22	2.10	0.51
1:B:87:TYR:HB3	1:C:49:ASN:ND2	2.25	0.51
1:C:284:ILE:HG22	1:C:284:ILE:O	2.10	0.51
1:D:140:GLU:HB3	1:D:217:VAL:HG11	1.92	0.51
1:E:73:TYR:OH	1:E:273:GLY:HA2	2.10	0.51
1:G:19:LYS:HG3	1:G:22:ARG:NH1	2.20	0.51
1:G:44:LEU:HA	1:G:275:ASN:HD21	1.76	0.51
1:H:68:ASP:HB3	1:H:74:ILE:CD1	2.40	0.51
1:H:123:ASN:O	1:H:257:PHE:HA	2.09	0.51
1:H:188:HIS:C	1:H:190:ALA:H	2.18	0.51
1:I:12:ILE:HD12	1:I:12:ILE:N	2.24	0.51
1:I:248:GLU:HG2	1:J:282:TYR:CG	2.45	0.51
1:I:258:LEU:HD21	1:I:278:VAL:CG1	2.34	0.51
1:J:269:ASN:CG	1:J:273:GLY:O	2.53	0.51
1:K:67:LYS:HE2	1:K:116:ASP:C	2.35	0.51
1:K:119:VAL:CG1	1:K:120:VAL:H	2.23	0.51
1:L:275:ASN:OD1	1:L:277:LYS:HD3	2.09	0.51
1:A:85:ASP:OD2	1:A:89:GLN:HG3	2.11	0.51
1:A:109:TYR:HE1	1:B:46:PRO:O	1.93	0.51
1:A:226:LEU:O	1:A:227:GLN:CG	2.59	0.51
1:A:259:LYS:O	1:A:263:GLU:HB3	2.09	0.51
1:A:259:LYS:HD2	1:B:281:ARG:NH1	2.25	0.51
1:B:45:PRO:HG2	1:B:48:ILE:CD1	2.40	0.51
1:B:63:VAL:O	1:B:63:VAL:CG1	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:258:LEU:HD13	1:B:262:GLU:OE1	2.09	0.51
1:B:260:SER:HA	1:B:263:GLU:OE2	2.11	0.51
1:D:151:ASN:HB3	1:D:207:VAL:HG22	1.92	0.51
1:E:38:LEU:HD11	1:E:225:LYS:NZ	2.25	0.51
1:I:226:LEU:O	1:I:227:GLN:CG	2.58	0.51
1:I:249:GLN:O	1:I:253:SER:OG	2.26	0.51
1:J:275:ASN:CG	1:J:277:LYS:CD	2.83	0.51
1:K:42:GLU:O	1:K:43:ASN:CB	2.57	0.51
1:A:31:LEU:HD21	1:A:218:TRP:CZ3	2.45	0.51
1:A:276:VAL:HG13	1:A:277:LYS:N	2.24	0.51
1:B:72:SER:O	1:B:73:TYR:C	2.53	0.51
1:D:11:SER:OG	1:F:181:ASN:ND2	2.37	0.51
1:F:51:SER:OG	1:F:55:LYS:HE2	2.10	0.51
1:F:57:ILE:HG22	1:F:123:ASN:HD22	1.75	0.51
1:G:19:LYS:CG	1:G:22:ARG:HH12	2.20	0.51
1:G:104:PHE:HE1	1:G:106:LEU:HD21	1.75	0.51
1:H:137:PHE:CD2	1:H:221:MET:HB2	2.45	0.51
1:J:38:LEU:HD11	1:J:225:LYS:HD2	1.92	0.51
1:J:54:GLU:OE2	1:J:261:ARG:NH1	2.44	0.51
1:J:68:ASP:HB2	1:J:100:TYR:OH	2.10	0.51
1:J:147:ILE:HD11	1:K:153:ASN:ND2	2.26	0.51
1:L:42:GLU:C	1:L:277:LYS:NZ	2.68	0.51
1:A:247:ASP:O	1:A:248:GLU:O	2.29	0.51
1:A:261:ARG:O	1:A:265:CYS:HB2	2.11	0.51
1:A:269:ASN:N	1:A:269:ASN:ND2	2.54	0.51
1:B:87:TYR:HB3	1:C:49:ASN:HD22	1.74	0.51
1:D:38:LEU:HD12	1:D:39:PHE:CE2	2.44	0.51
1:D:61:GLY:O	1:D:62:TYR:CG	2.64	0.51
1:D:62:TYR:HA	1:D:122:TYR:HA	1.92	0.51
1:D:85:ASP:CB	1:D:89:GLN:HB3	2.40	0.51
1:D:86:VAL:HG12	1:D:87:TYR:CE1	2.45	0.51
1:F:200:LYS:HE2	1:F:202:ASP:OD1	2.10	0.51
1:H:273:GLY:O	1:H:274:LEU:HD13	2.09	0.51
1:I:274:LEU:C	1:I:274:LEU:HD12	2.36	0.51
1:J:41:TRP:HE3	1:J:277:LYS:CE	2.21	0.51
1:J:125:ASP:O	1:K:55:LYS:NZ	2.42	0.51
1:K:109:TYR:N	1:K:112:MET:CB	2.58	0.51
1:A:35:ALA:O	1:A:38:LEU:HG	2.11	0.51
1:A:59:GLN:O	1:A:60:PHE:HB2	2.11	0.51
1:B:80:LEU:HD11	1:B:122:TYR:HE2	1.74	0.51
1:B:269:ASN:C	1:B:271:LEU:H	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:ASN:ND2	1:C:52:PHE:HB2	2.26	0.51
1:D:248:GLU:HB3	1:E:282:TYR:CE2	2.45	0.51
1:E:78:GLY:H	1:E:93:PHE:HE2	1.59	0.51
1:E:84:ARG:HB3	1:E:88:ASN:HA	1.92	0.51
1:E:177:GLN:C	1:E:179:GLU:N	2.67	0.51
1:F:170:SER:C	1:F:171:LEU:O	2.48	0.51
1:G:136:LEU:HD13	1:H:22:ARG:HD2	1.91	0.51
1:G:171:LEU:CD2	1:G:175:TYR:HE1	2.23	0.51
1:H:21:ASN:O	1:H:25:ILE:HG13	2.10	0.51
1:H:68:ASP:O	1:H:71:ILE:O	2.28	0.51
1:I:193:SER:O	1:I:194:ASP:HB2	2.10	0.51
1:K:171:LEU:O	1:K:172:LYS:CB	2.59	0.51
1:L:23:TRP:CE2	1:L:145:LYS:HE3	2.46	0.51
1:A:39:PHE:HZ	1:A:257:PHE:HB2	1.76	0.51
1:A:154:ALA:C	1:A:156:LYS:H	2.18	0.51
1:A:159:VAL:CG2	1:L:202:ASP:O	2.58	0.51
1:A:172:LYS:HE3	1:B:179:GLU:OE2	2.11	0.51
1:B:57:ILE:HG12	1:B:63:VAL:CG1	2.41	0.51
1:B:164:ASN:O	1:C:189:GLU:HA	2.11	0.51
1:C:42:GLU:CD	1:C:279:LYS:HZ3	2.15	0.51
1:C:123:ASN:HD22	1:C:261:ARG:HH22	1.57	0.51
1:D:40:GLU:N	1:D:278:VAL:O	2.44	0.51
1:D:43:ASN:O	1:D:44:LEU:CB	2.55	0.51
1:D:67:LYS:HB2	1:D:117:MET:CE	2.39	0.51
1:D:277:LYS:C	1:D:279:LYS:N	2.69	0.51
1:E:41:TRP:C	1:E:277:LYS:NZ	2.69	0.51
1:F:260:SER:O	1:F:261:ARG:C	2.54	0.51
1:G:283:ASP:C	1:G:285:VAL:N	2.66	0.51
1:H:179:GLU:HG3	1:H:180:GLY:N	2.26	0.51
1:K:280:PHE:C	1:K:282:TYR:H	2.19	0.51
1:L:158:PRO:O	1:L:159:VAL:CB	2.59	0.51
1:B:20:ARG:HG2	1:B:146:GLU:OE2	2.11	0.51
1:B:42:GLU:OE2	1:B:277:LYS:HG3	2.10	0.51
1:B:108:ASN:HD21	1:B:119:VAL:CG1	2.18	0.51
1:C:42:GLU:O	1:C:43:ASN:HB2	2.10	0.51
1:D:83:GLN:C	1:D:83:GLN:HE21	2.17	0.51
1:D:192:ASP:O	1:D:194:ASP:N	2.43	0.51
1:E:41:TRP:HB3	1:E:277:LYS:NZ	2.26	0.51
1:E:53:LEU:O	1:E:57:ILE:N	2.38	0.51
1:E:164:ASN:ND2	1:E:165:ASP:OD2	2.44	0.51
1:F:57:ILE:O	1:F:61:GLY:HA2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:ILE:HG21	1:F:100:TYR:HE2	1.73	0.51
1:H:123:ASN:ND2	1:H:257:PHE:HD2	2.08	0.51
1:H:167:ASN:OD1	1:H:168:GLN:N	2.44	0.51
1:I:28:LEU:O	1:I:32:GLN:HG3	2.10	0.51
1:K:43:ASN:N	1:K:277:LYS:NZ	2.59	0.51
1:K:157:THR:HG21	1:L:178:TYR:HE2	1.76	0.51
1:L:174:VAL:O	1:L:177:GLN:HB3	2.11	0.51
1:A:14:GLU:CA	1:A:17:ARG:HG3	2.38	0.51
1:A:275:ASN:O	1:A:277:LYS:HE2	2.11	0.51
1:B:227:GLN:O	1:B:228:THR:C	2.53	0.51
1:C:281:ARG:HG3	1:C:281:ARG:O	2.11	0.51
1:D:86:VAL:HG12	1:D:87:TYR:CD1	2.46	0.51
1:E:37:GLN:HG2	1:E:281:ARG:HD3	1.91	0.51
1:E:210:LEU:O	1:E:213:GLN:HB2	2.11	0.51
1:F:42:GLU:OE2	1:F:279:LYS:NZ	2.42	0.51
1:F:67:LYS:H	1:F:117:MET:CE	2.24	0.51
1:F:226:LEU:O	1:F:227:GLN:NE2	2.44	0.51
1:G:171:LEU:HB2	1:H:185:ILE:HD13	1.93	0.51
1:I:175:TYR:O	1:I:178:TYR:CG	2.64	0.51
1:J:271:LEU:O	1:J:272:TYR:CB	2.59	0.51
1:K:35:ALA:O	1:K:38:LEU:HD12	2.11	0.51
1:K:108:ASN:HA	1:K:112:MET:SD	2.51	0.51
1:K:257:PHE:HB3	1:K:261:ARG:HH21	1.76	0.51
1:A:117:MET:CE	1:A:271:LEU:HB3	2.37	0.51
1:A:276:VAL:O	1:A:277:LYS:CG	2.59	0.51
1:B:39:PHE:HZ	1:B:257:PHE:HB3	1.76	0.51
1:C:35:ALA:O	1:C:38:LEU:HG	2.11	0.51
1:C:125:ASP:O	1:C:126:MET:SD	2.69	0.51
1:C:188:HIS:O	1:C:188:HIS:CG	2.63	0.51
1:C:265:CYS:O	1:C:268:ILE:HG12	2.11	0.51
1:D:167:ASN:OD1	1:D:168:GLN:N	2.44	0.51
1:D:226:LEU:O	1:D:227:GLN:OE1	2.29	0.51
1:F:193:SER:O	1:F:194:ASP:CG	2.54	0.51
1:G:274:LEU:O	1:G:275:ASN:CB	2.58	0.51
1:H:39:PHE:HZ	1:H:257:PHE:HB2	1.75	0.51
1:H:166:ASN:O	1:H:167:ASN:C	2.54	0.51
1:I:62:TYR:CE2	1:I:80:LEU:HG	2.46	0.51
1:I:124:ASN:HD21	1:I:128:PHE:N	2.00	0.51
1:A:40:GLU:HB2	1:A:281:ARG:HB2	1.91	0.51
1:B:42:GLU:CD	1:B:279:LYS:HZ3	2.18	0.51
1:B:67:LYS:HG2	1:B:67:LYS:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:126:MET:HE1	1:C:36:TYR:HD2	1.76	0.51
1:B:226:LEU:HD12	1:B:227:GLN:N	2.26	0.51
1:D:14:GLU:O	1:D:15:ILE:C	2.54	0.51
1:F:48:ILE:O	1:F:50:PRO:HD3	2.11	0.51
1:F:227:GLN:C	1:F:228:THR:O	2.54	0.51
1:G:28:LEU:O	1:G:28:LEU:HD23	2.11	0.51
1:G:60:PHE:O	1:G:62:TYR:N	2.44	0.51
1:G:226:LEU:O	1:G:227:GLN:HG2	2.11	0.51
1:I:218:TRP:O	1:I:221:MET:HB3	2.11	0.51
1:J:158:PRO:O	1:J:159:VAL:CB	2.55	0.51
1:K:123:ASN:OD1	1:K:261:ARG:NH2	2.44	0.51
1:K:177:GLN:O	1:K:178:TYR:C	2.54	0.51
1:K:203:ALA:HB1	1:L:158:PRO:HG3	1.93	0.51
1:L:168:GLN:HB3	1:L:188:HIS:CE1	2.46	0.51
1:B:160:LEU:HD23	1:C:184:VAL:HB	1.92	0.50
1:C:215:ASN:O	1:C:219:ASN:ND2	2.44	0.50
1:D:178:TYR:OH	1:E:182:ALA:HB2	2.11	0.50
1:E:177:GLN:HB3	1:E:179:GLU:HG2	1.93	0.50
1:F:248:GLU:HG3	1:G:282:TYR:CG	2.45	0.50
1:H:249:GLN:HA	1:H:252:SER:OG	2.11	0.50
1:J:44:LEU:O	1:J:45:PRO:C	2.54	0.50
1:J:143:GLU:O	1:J:147:ILE:HG13	2.11	0.50
1:K:140:GLU:OE2	1:L:145:LYS:HE2	2.11	0.50
1:K:262:GLU:CG	1:K:263:GLU:N	2.74	0.50
1:L:82:GLY:O	1:L:83:GLN:O	2.28	0.50
1:A:68:ASP:OD1	1:A:70:VAL:N	2.43	0.50
1:B:54:GLU:OE1	1:B:54:GLU:HA	2.10	0.50
1:C:175:TYR:O	1:C:178:TYR:CD2	2.64	0.50
1:E:41:TRP:HB3	1:E:277:LYS:HZ2	1.76	0.50
1:F:45:PRO:O	1:F:47:THR:N	2.41	0.50
1:H:52:PHE:C	1:H:52:PHE:CD2	2.88	0.50
1:H:74:ILE:CG2	1:H:75:ALA:H	2.24	0.50
1:K:226:LEU:O	1:K:227:GLN:CG	2.59	0.50
1:B:172:LYS:O	1:B:176:ASN:N	2.44	0.50
1:B:269:ASN:C	1:B:271:LEU:N	2.69	0.50
1:C:123:ASN:HD22	1:C:261:ARG:NH2	2.08	0.50
1:D:264:ALA:O	1:D:265:CYS:C	2.54	0.50
1:E:248:GLU:OE2	1:F:226:LEU:HG	2.11	0.50
1:E:268:ILE:HG23	1:E:269:ASN:ND2	2.25	0.50
1:G:186:PHE:CD2	1:G:196:ILE:HD11	2.46	0.50
1:G:283:ASP:C	1:G:285:VAL:H	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:179:GLU:HG3	1:H:181:ASN:H	1.77	0.50
1:H:272:TYR:CD2	1:H:272:TYR:N	2.77	0.50
1:I:258:LEU:HD22	1:I:262:GLU:CD	2.37	0.50
1:J:107:TYR:HB3	1:J:119:VAL:HG13	1.92	0.50
1:J:275:ASN:OD1	1:J:277:LYS:HE3	2.11	0.50
1:K:101:GLN:C	1:K:101:GLN:CD	2.79	0.50
1:B:67:LYS:HA	1:B:73:TYR:HA	1.94	0.50
1:B:126:MET:SD	1:C:55:LYS:HE2	2.52	0.50
1:C:25:ILE:O	1:C:26:HIS:C	2.53	0.50
1:D:93:PHE:HB2	1:D:106:LEU:HD11	1.94	0.50
1:D:99:VAL:O	1:D:100:TYR:HB3	2.11	0.50
1:G:213:GLN:HE22	1:H:211:ASN:CG	2.18	0.50
1:H:18:GLN:HA	1:H:21:ASN:HD22	1.75	0.50
1:J:92:VAL:HG12	1:J:93:PHE:N	2.26	0.50
1:K:89:GLN:NE2	1:K:107:TYR:HB3	2.26	0.50
1:A:83:GLN:OE1	1:A:84:ARG:O	2.29	0.50
1:C:85:ASP:OD2	1:C:85:ASP:N	2.39	0.50
1:C:168:GLN:OE1	1:C:169:LEU:HG	2.10	0.50
1:D:19:LYS:O	1:D:22:ARG:N	2.45	0.50
1:D:258:LEU:CD2	1:D:262:GLU:HG2	2.41	0.50
1:D:261:ARG:O	1:D:262:GLU:C	2.52	0.50
1:D:280:PHE:C	1:D:282:TYR:H	2.19	0.50
1:E:96:ALA:O	1:E:97:SER:CB	2.60	0.50
1:G:108:ASN:OD1	1:G:271:LEU:HD12	2.12	0.50
1:G:278:VAL:O	1:G:279:LYS:O	2.30	0.50
1:H:278:VAL:CG2	1:H:279:LYS:H	2.20	0.50
1:J:108:ASN:O	1:J:112:MET:O	2.29	0.50
1:K:161:ILE:HG12	1:K:198:VAL:HG22	1.93	0.50
1:L:21:ASN:O	1:L:25:ILE:HG13	2.11	0.50
1:A:108:ASN:OD1	1:A:271:LEU:HD21	2.12	0.50
1:A:124:ASN:ND2	1:A:128:PHE:H	2.10	0.50
1:C:27:TYR:O	1:C:31:LEU:HG	2.11	0.50
1:F:23:TRP:O	1:F:24:PHE:C	2.54	0.50
1:I:53:LEU:O	1:I:53:LEU:HD23	2.12	0.50
1:I:71:ILE:O	1:I:72:SER:HB3	2.11	0.50
1:J:146:GLU:O	1:J:150:VAL:HG23	2.11	0.50
1:L:110:ARG:O	1:L:111:ASP:OD1	2.28	0.50
1:L:168:GLN:OE1	1:L:169:LEU:HG	2.11	0.50
1:B:17:ARG:HH11	1:B:17:ARG:HG3	1.77	0.50
1:B:106:LEU:HD23	1:B:118:GLY:O	2.12	0.50
1:B:172:LYS:O	1:B:176:ASN:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:47:THR:HB	1:C:73:TYR:HB2	1.94	0.50
1:E:99:VAL:HG22	1:E:100:TYR:N	2.27	0.50
1:F:221:MET:HE3	1:F:224:PHE:HB3	1.94	0.50
1:H:98:PRO:O	1:H:100:TYR:N	2.44	0.50
1:H:171:LEU:HB3	1:I:185:ILE:HD13	1.94	0.50
1:H:174:VAL:O	1:H:177:GLN:CB	2.60	0.50
1:I:262:GLU:CG	1:I:278:VAL:HG22	2.37	0.50
1:I:264:ALA:O	1:I:265:CYS:C	2.54	0.50
1:J:49:ASN:ND2	1:J:51:SER:OG	2.45	0.50
1:J:271:LEU:O	1:J:272:TYR:CD2	2.64	0.50
1:L:98:PRO:O	1:L:100:TYR:N	2.44	0.50
1:L:110:ARG:C	1:L:112:MET:N	2.63	0.50
1:L:119:VAL:HG11	1:L:267:LYS:HB2	1.94	0.50
1:L:162:ARG:NH1	1:L:197:GLU:OE1	2.44	0.50
1:A:16:GLN:C	1:A:18:GLN:N	2.69	0.50
1:C:67:LYS:H	1:C:117:MET:HE2	1.76	0.50
1:C:152:GLN:O	1:C:155:GLN:HG2	2.11	0.50
1:C:268:ILE:HD12	1:C:275:ASN:HB2	1.94	0.50
1:D:283:ASP:CB	1:D:284:ILE:HD12	2.42	0.50
1:E:177:GLN:O	1:E:178:TYR:C	2.55	0.50
1:F:98:PRO:O	1:F:100:TYR:N	2.44	0.50
1:F:107:TYR:CD2	1:F:107:TYR:O	2.65	0.50
1:J:37:GLN:O	1:J:281:ARG:HG3	2.11	0.50
1:J:171:LEU:O	1:J:172:LYS:HB3	2.11	0.50
1:K:101:GLN:O	1:K:102:LYS:HB2	2.12	0.50
1:L:60:PHE:O	1:L:61:GLY:C	2.55	0.50
1:B:71:ILE:O	1:B:72:SER:HB3	2.12	0.50
1:C:53:LEU:HD12	1:C:63:VAL:CG2	2.37	0.50
1:D:16:GLN:HE22	1:D:20:ARG:HH21	1.58	0.50
1:E:125:ASP:O	1:E:126:MET:CB	2.59	0.50
1:F:42:GLU:HB3	1:F:277:LYS:CD	2.41	0.50
1:F:70:VAL:HB	1:F:71:ILE:HD12	1.94	0.50
1:G:209:LYS:O	1:G:212:ALA:HB3	2.11	0.50
1:H:53:LEU:HD23	1:H:63:VAL:HG21	1.94	0.50
1:H:162:ARG:NH1	1:H:197:GLU:OE1	2.45	0.50
1:H:284:ILE:HD12	1:H:284:ILE:N	2.27	0.50
1:I:164:ASN:N	1:I:164:ASN:ND2	2.59	0.50
1:J:255:THR:O	1:J:259:LYS:HB3	2.11	0.50
1:K:84:ARG:HB3	1:K:84:ARG:HH11	1.76	0.50
1:A:14:GLU:C	1:A:16:GLN:H	2.19	0.49
1:A:42:GLU:O	1:A:43:ASN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:ASN:C	1:A:271:LEU:H	2.20	0.49
1:C:126:MET:C	1:C:128:PHE:N	2.69	0.49
1:C:164:ASN:CB	1:C:195:SER:HA	2.29	0.49
1:C:226:LEU:O	1:C:227:GLN:CD	2.55	0.49
1:D:21:ASN:O	1:D:24:PHE:HB3	2.12	0.49
1:D:226:LEU:O	1:D:227:GLN:CD	2.54	0.49
1:F:43:ASN:O	1:F:44:LEU:HB2	2.12	0.49
1:F:96:ALA:O	1:F:97:SER:HB3	2.12	0.49
1:G:16:GLN:NE2	1:G:16:GLN:HA	2.27	0.49
1:I:57:ILE:O	1:I:61:GLY:HA2	2.12	0.49
1:I:84:ARG:CD	1:I:90:ALA:HA	2.42	0.49
1:J:45:PRO:HG2	1:J:48:ILE:CD1	2.40	0.49
1:K:67:LYS:HB3	1:K:117:MET:HE3	1.94	0.49
1:L:277:LYS:HA	1:L:277:LYS:HZ2	1.77	0.49
1:A:52:PHE:C	1:A:52:PHE:CD2	2.90	0.49
1:A:66:TYR:CE2	1:A:68:ASP:HA	2.46	0.49
1:B:87:TYR:CB	1:C:49:ASN:HD22	2.25	0.49
1:D:265:CYS:O	1:D:266:GLU:C	2.55	0.49
1:E:11:SER:OG	1:G:181:ASN:ND2	2.45	0.49
1:E:54:GLU:O	1:E:57:ILE:HB	2.12	0.49
1:E:169:LEU:HB3	1:E:186:PHE:HE1	1.76	0.49
1:G:171:LEU:CB	1:H:185:ILE:HD13	2.42	0.49
1:H:205:TYR:CZ	1:H:207:VAL:HB	2.46	0.49
1:J:62:TYR:HE2	1:J:79:ALA:HA	1.78	0.49
1:J:177:GLN:C	1:J:179:GLU:H	2.20	0.49
1:A:125:ASP:OD2	1:A:126:MET:HE2	2.12	0.49
1:B:39:PHE:CE2	1:B:257:PHE:HB3	2.48	0.49
1:B:57:ILE:O	1:B:61:GLY:HA2	2.13	0.49
1:B:121:ILE:HG23	1:B:264:ALA:CB	2.43	0.49
1:B:126:MET:C	1:B:128:PHE:N	2.66	0.49
1:D:222:MET:HA	1:D:227:GLN:HG3	1.94	0.49
1:F:63:VAL:O	1:F:63:VAL:CG1	2.60	0.49
1:F:264:ALA:C	1:F:266:GLU:H	2.20	0.49
1:G:41:TRP:CE3	1:G:277:LYS:HB2	2.48	0.49
1:J:104:PHE:CE2	1:J:118:GLY:CA	2.95	0.49
1:K:223:THR:HG22	1:K:223:THR:O	2.11	0.49
1:L:57:ILE:HA	1:L:61:GLY:O	2.13	0.49
1:L:191:LEU:HD22	1:L:195:SER:OG	2.12	0.49
1:A:109:TYR:HB2	1:A:270:GLU:OE1	2.11	0.49
1:A:173:GLN:HA	1:A:173:GLN:OE1	2.11	0.49
1:A:179:GLU:OE2	1:L:172:LYS:HE2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:108:ASN:OD1	1:B:108:ASN:N	2.46	0.49
1:B:247:ASP:C	1:B:249:GLN:H	2.20	0.49
1:C:50:PRO:O	1:C:51:SER:CB	2.61	0.49
1:D:41:TRP:C	1:D:277:LYS:HD2	2.36	0.49
1:D:269:ASN:HA	1:D:274:LEU:O	2.12	0.49
1:F:105:LYS:HB2	1:F:117:MET:O	2.12	0.49
1:G:85:ASP:CG	1:G:89:GLN:HB3	2.37	0.49
1:G:137:PHE:HZ	1:G:220:GLU:OE2	1.95	0.49
1:H:134:LEU:O	1:H:138:ALA:N	2.38	0.49
1:H:189:GLU:C	1:H:191:LEU:H	2.19	0.49
1:H:282:TYR:CD2	1:H:283:ASP:N	2.80	0.49
1:I:282:TYR:O	1:I:283:ASP:HB2	2.13	0.49
1:J:269:ASN:HD22	1:J:269:ASN:N	2.10	0.49
1:L:110:ARG:O	1:L:112:MET:N	2.45	0.49
1:A:37:GLN:C	1:A:37:GLN:HE21	2.21	0.49
1:A:93:PHE:HD2	1:A:104:PHE:CE1	2.31	0.49
1:A:199:PHE:CE2	1:B:196:ILE:HG22	2.48	0.49
1:A:259:LYS:HD2	1:B:281:ARG:HH12	1.78	0.49
1:D:63:VAL:O	1:D:120:VAL:O	2.31	0.49
1:E:38:LEU:HD11	1:E:225:LYS:HE2	1.94	0.49
1:E:221:MET:HE3	1:E:224:PHE:HB3	1.94	0.49
1:H:66:TYR:CE2	1:H:100:TYR:OH	2.63	0.49
1:I:151:ASN:O	1:I:155:GLN:HG2	2.12	0.49
1:I:153:ASN:C	1:I:155:GLN:N	2.67	0.49
1:I:227:GLN:O	1:I:228:THR:O	2.30	0.49
1:J:41:TRP:CE3	1:J:277:LYS:HB2	2.48	0.49
1:L:188:HIS:O	1:L:189:GLU:HB3	2.13	0.49
1:A:108:ASN:HB2	1:A:119:VAL:CG2	2.43	0.49
1:B:157:THR:HG21	1:C:178:TYR:HE2	1.78	0.49
1:B:269:ASN:HD21	1:B:275:ASN:CB	2.25	0.49
1:F:158:PRO:O	1:F:159:VAL:CB	2.58	0.49
1:I:158:PRO:O	1:I:159:VAL:CB	2.58	0.49
1:B:93:PHE:HD2	1:B:104:PHE:CZ	2.30	0.49
1:B:95:ALA:O	1:B:101:GLN:HA	2.13	0.49
1:C:15:ILE:O	1:C:18:GLN:N	2.45	0.49
1:F:56:SER:O	1:F:59:GLN:O	2.31	0.49
1:F:65:PHE:CD2	1:F:268:ILE:HD12	2.47	0.49
1:I:274:LEU:O	1:I:275:ASN:OD1	2.30	0.49
1:J:12:ILE:HG22	1:J:16:GLN:HB2	1.95	0.49
1:J:63:VAL:O	1:J:63:VAL:HG13	2.12	0.49
1:K:85:ASP:OD1	1:K:107:TYR:CE1	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:PRO:O	1:B:158:PRO:CG	2.61	0.49
1:C:218:TRP:O	1:C:222:MET:HG2	2.12	0.49
1:C:249:GLN:HG2	1:D:222:MET:CE	2.24	0.49
1:C:262:GLU:O	1:C:265:CYS:HB2	2.13	0.49
1:D:25:ILE:HG22	1:D:29:ASN:ND2	2.28	0.49
1:D:203:ALA:O	1:D:204:PRO:C	2.54	0.49
1:G:85:ASP:HB3	1:G:88:ASN:C	2.38	0.49
1:H:23:TRP:CE2	1:H:145:LYS:HD3	2.48	0.49
1:H:94:ARG:HA	1:H:103:GLU:HG2	1.94	0.49
1:I:94:ARG:HA	1:I:103:GLU:HA	1.93	0.49
1:I:269:ASN:HD21	1:I:276:VAL:HA	1.78	0.49
1:A:65:PHE:N	1:A:119:VAL:O	2.29	0.49
1:B:179:GLU:HA	1:L:13:ASN:ND2	2.27	0.49
1:E:273:GLY:O	1:E:274:LEU:HB2	2.13	0.49
1:G:50:PRO:O	1:G:51:SER:CB	2.59	0.49
1:G:81:SER:HB3	1:G:94:ARG:CZ	2.42	0.49
1:G:85:ASP:O	1:G:86:VAL:C	2.56	0.49
1:H:38:LEU:O	1:H:39:PHE:HB2	2.12	0.49
1:I:20:ARG:CD	1:I:146:GLU:HG3	2.43	0.49
1:I:62:TYR:HE2	1:I:79:ALA:CA	2.24	0.49
1:J:215:ASN:O	1:J:219:ASN:ND2	2.42	0.49
1:L:201:THR:O	1:L:201:THR:CG2	2.53	0.49
1:L:226:LEU:C	1:L:227:GLN:HG2	2.38	0.49
1:A:98:PRO:C	1:A:99:VAL:HG23	2.38	0.49
1:A:142:ALA:O	1:A:146:GLU:HB2	2.13	0.49
1:A:175:TYR:O	1:A:178:TYR:CG	2.66	0.49
1:B:131:THR:N	1:B:132:PRO:HD2	2.28	0.49
1:B:258:LEU:O	1:B:259:LYS:C	2.56	0.49
1:C:41:TRP:O	1:C:277:LYS:CB	2.58	0.49
1:C:201:THR:CG2	1:D:161:ILE:HD11	2.42	0.49
1:C:226:LEU:C	1:C:227:GLN:HG2	2.38	0.49
1:E:81:SER:CA	1:E:84:ARG:HH12	2.26	0.49
1:E:174:VAL:HG21	1:E:186:PHE:HD1	1.78	0.49
1:F:14:GLU:CD	1:F:14:GLU:H	2.17	0.49
1:F:71:ILE:N	1:F:71:ILE:CD1	2.76	0.49
1:F:182:ALA:HB1	1:F:183:PRO:HD2	1.94	0.49
1:G:261:ARG:O	1:G:265:CYS:HB2	2.13	0.49
1:H:267:LYS:O	1:H:270:GLU:N	2.46	0.49
1:J:67:LYS:NZ	1:J:271:LEU:HD21	2.27	0.49
1:J:87:TYR:HA	1:K:52:PHE:CE1	2.48	0.49
1:L:170:SER:OG	1:L:173:GLN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:96:ALA:O	1:A:97:SER:CB	2.61	0.48
1:A:108:ASN:HD21	1:A:117:MET:CB	2.05	0.48
1:A:226:LEU:HD12	1:A:251:ASP:HA	1.94	0.48
1:C:123:ASN:HD21	1:C:261:ARG:HH22	1.60	0.48
1:C:164:ASN:O	1:D:189:GLU:HA	2.13	0.48
1:D:22:ARG:NH1	1:D:22:ARG:HB2	2.28	0.48
1:D:274:LEU:CD1	1:D:275:ASN:N	2.76	0.48
1:E:182:ALA:HB1	1:E:183:PRO:CD	2.38	0.48
1:E:261:ARG:NH1	1:E:261:ARG:CG	2.65	0.48
1:G:20:ARG:CD	1:G:146:GLU:CD	2.86	0.48
1:H:125:ASP:O	1:I:55:LYS:NZ	2.41	0.48
1:H:188:HIS:O	1:H:189:GLU:HG2	2.13	0.48
1:H:226:LEU:HB2	1:H:254:GLY:HA3	1.95	0.48
1:J:123:ASN:ND2	1:J:261:ARG:NH2	2.60	0.48
1:J:269:ASN:C	1:J:271:LEU:N	2.71	0.48
1:K:166:ASN:O	1:K:169:LEU:O	2.31	0.48
1:L:255:THR:CG2	1:L:259:LYS:HG3	2.42	0.48
1:A:41:TRP:HE3	1:A:277:LYS:CB	2.26	0.48
1:B:87:TYR:O	1:B:88:ASN:CB	2.51	0.48
1:B:168:GLN:HE22	1:B:169:LEU:CD2	2.26	0.48
1:C:130:THR:C	1:C:132:PRO:HD2	2.37	0.48
1:C:276:VAL:O	1:C:277:LYS:HG3	2.13	0.48
1:D:119:VAL:HG12	1:D:120:VAL:N	2.27	0.48
1:E:13:ASN:HA	1:E:16:GLN:HB3	1.95	0.48
1:E:41:TRP:C	1:E:277:LYS:HZ2	2.21	0.48
1:E:258:LEU:O	1:E:258:LEU:HD23	2.13	0.48
1:H:126:MET:HG2	1:H:128:PHE:CE2	2.48	0.48
1:H:269:ASN:O	1:H:273:GLY:N	2.46	0.48
1:I:92:VAL:HG12	1:I:93:PHE:N	2.28	0.48
1:I:175:TYR:O	1:I:178:TYR:CD1	2.66	0.48
1:I:225:LYS:HG2	1:I:225:LYS:O	2.13	0.48
1:J:20:ARG:CZ	1:J:146:GLU:OE1	2.62	0.48
1:J:105:LYS:CD	1:J:114:GLU:HB2	2.42	0.48
1:L:137:PHE:CZ	1:L:220:GLU:HG2	2.48	0.48
1:A:62:TYR:C	1:A:62:TYR:CD2	2.91	0.48
1:B:62:TYR:CE1	1:B:78:GLY:O	2.67	0.48
1:B:87:TYR:HD2	1:C:52:PHE:CG	2.30	0.48
1:B:151:ASN:O	1:B:152:GLN:C	2.56	0.48
1:D:277:LYS:C	1:D:278:VAL:HG23	2.37	0.48
1:E:53:LEU:CG	1:E:54:GLU:N	2.76	0.48
1:E:268:ILE:CG2	1:E:269:ASN:N	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:87:TYR:HB3	1:G:52:PHE:CD1	2.48	0.48
1:F:146:GLU:O	1:F:150:VAL:HG23	2.13	0.48
1:G:90:ALA:C	1:G:92:VAL:N	2.67	0.48
1:G:104:PHE:HD1	1:G:105:LYS:O	1.96	0.48
1:G:280:PHE:O	1:G:281:ARG:CB	2.62	0.48
1:H:43:ASN:CB	1:H:275:ASN:OD1	2.61	0.48
1:H:168:GLN:CB	1:H:188:HIS:NE2	2.76	0.48
1:I:104:PHE:HD1	1:I:118:GLY:HA3	1.78	0.48
1:J:91:THR:CA	1:J:106:LEU:HD12	2.43	0.48
1:J:172:LYS:HB2	1:K:185:ILE:HD12	1.94	0.48
1:K:108:ASN:HA	1:K:112:MET:HG2	1.96	0.48
1:A:60:PHE:O	1:A:129:PRO:HG3	2.13	0.48
1:A:110:ARG:HG2	1:A:111:ASP:N	2.28	0.48
1:A:125:ASP:OD2	1:B:55:LYS:HE2	2.13	0.48
1:A:275:ASN:CB	1:A:277:LYS:HE2	2.25	0.48
1:D:43:ASN:CB	1:D:277:LYS:HE2	2.41	0.48
1:D:143:GLU:O	1:D:146:GLU:HB3	2.13	0.48
1:H:43:ASN:CB	1:H:277:LYS:NZ	2.75	0.48
1:H:260:SER:HA	1:H:263:GLU:OE1	2.14	0.48
1:H:283:ASP:O	1:H:284:ILE:HB	2.12	0.48
1:K:226:LEU:HD22	1:K:280:PHE:CG	2.49	0.48
1:L:42:GLU:C	1:L:277:LYS:CE	2.86	0.48
1:L:85:ASP:OD1	1:L:86:VAL:N	2.46	0.48
1:A:81:SER:O	1:A:90:ALA:O	2.30	0.48
1:B:12:ILE:HG22	1:B:13:ASN:N	2.29	0.48
1:B:48:ILE:HD13	1:B:65:PHE:CE1	2.48	0.48
1:C:66:TYR:CE2	1:C:102:LYS:HE2	2.48	0.48
1:D:44:LEU:HA	1:D:275:ASN:ND2	2.23	0.48
1:E:20:ARG:CZ	1:E:146:GLU:CD	2.86	0.48
1:F:65:PHE:N	1:F:119:VAL:O	2.45	0.48
1:H:86:VAL:HA	1:I:99:VAL:HG11	1.96	0.48
1:H:213:GLN:O	1:H:217:VAL:HG23	2.14	0.48
1:I:62:TYR:O	1:I:63:VAL:HB	2.14	0.48
1:I:87:TYR:CD1	1:J:49:ASN:HB2	2.48	0.48
1:J:85:ASP:CG	1:J:89:GLN:HB3	2.39	0.48
1:K:213:GLN:HG3	1:L:207:VAL:CG1	2.44	0.48
1:L:66:TYR:HA	1:L:117:MET:SD	2.53	0.48
1:L:105:LYS:O	1:L:117:MET:O	2.32	0.48
1:L:106:LEU:O	1:L:107:TYR:CB	2.61	0.48
1:A:162:ARG:NH1	1:B:193:SER:HA	2.28	0.48
1:B:81:SER:OG	1:B:82:GLY:N	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:93:PHE:O	1:B:103:GLU:HG3	2.13	0.48
1:C:23:TRP:O	1:C:27:TYR:HD1	1.97	0.48
1:C:80:LEU:HB3	1:C:90:ALA:HB3	1.94	0.48
1:C:260:SER:O	1:C:261:ARG:C	2.57	0.48
1:C:278:VAL:O	1:C:279:LYS:O	2.32	0.48
1:C:282:TYR:O	1:C:283:ASP:CB	2.62	0.48
1:D:72:SER:OG	1:D:73:TYR:N	2.35	0.48
1:D:92:VAL:HG11	1:D:103:GLU:OE1	2.13	0.48
1:D:263:GLU:O	1:D:265:CYS:N	2.47	0.48
1:E:66:TYR:HD2	1:E:100:TYR:OH	1.95	0.48
1:F:41:TRP:CE3	1:F:278:VAL:HG13	2.48	0.48
1:F:109:TYR:CE1	1:G:47:THR:HA	2.49	0.48
1:F:171:LEU:HD22	1:F:175:TYR:CE1	2.48	0.48
1:F:264:ALA:O	1:F:266:GLU:N	2.46	0.48
1:G:85:ASP:HB2	1:G:89:GLN:HB3	1.95	0.48
1:G:218:TRP:O	1:G:222:MET:HG2	2.14	0.48
1:G:249:GLN:HE22	1:H:218:TRP:HE1	1.61	0.48
1:H:60:PHE:CD1	1:H:60:PHE:N	2.82	0.48
1:I:20:ARG:CG	1:I:146:GLU:HG3	2.41	0.48
1:I:88:ASN:O	1:I:89:GLN:C	2.57	0.48
1:I:121:ILE:HG23	1:I:264:ALA:CB	2.44	0.48
1:I:171:LEU:HB3	1:J:185:ILE:CD1	2.41	0.48
1:K:125:ASP:OD1	1:K:125:ASP:N	2.46	0.48
1:B:45:PRO:HG2	1:B:48:ILE:HD12	1.95	0.48
1:B:113:LYS:HD3	1:B:271:LEU:HD23	1.96	0.48
1:C:148:ILE:HG23	1:C:207:VAL:HG13	1.95	0.48
1:D:35:ALA:O	1:D:38:LEU:HG	2.13	0.48
1:D:35:ALA:CB	1:D:225:LYS:HZ3	2.26	0.48
1:E:259:LYS:O	1:E:261:ARG:N	2.47	0.48
1:F:119:VAL:CG1	1:F:268:ILE:HB	2.22	0.48
1:F:124:ASN:OD1	1:F:128:PHE:O	2.31	0.48
1:G:105:LYS:H	1:G:105:LYS:HZ2	1.60	0.48
1:G:203:ALA:O	1:G:204:PRO:C	2.56	0.48
1:G:259:LYS:O	1:G:262:GLU:HB2	2.14	0.48
1:H:158:PRO:O	1:H:159:VAL:CB	2.56	0.48
1:I:14:GLU:C	1:I:16:GLN:N	2.71	0.48
1:I:107:TYR:N	1:I:118:GLY:O	2.45	0.48
1:I:223:THR:HG23	1:I:250:ILE:CG1	2.44	0.48
1:I:225:LYS:O	1:I:226:LEU:O	2.32	0.48
1:J:63:VAL:HG12	1:J:121:ILE:O	2.13	0.48
1:K:278:VAL:CG2	1:K:279:LYS:H	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:38:LEU:HB2	1:L:39:PHE:CD1	2.49	0.48
1:A:184:VAL:HB	1:L:160:LEU:HD23	1.96	0.48
1:B:248:GLU:HG2	1:C:227:GLN:O	2.13	0.48
1:C:45:PRO:HD2	1:C:275:ASN:OD1	2.14	0.48
1:C:276:VAL:C	1:C:277:LYS:HD3	2.39	0.48
1:D:30:TYR:CE2	1:D:218:TRP:CH2	3.02	0.48
1:E:24:PHE:CZ	1:E:28:LEU:HD12	2.49	0.48
1:E:67:LYS:N	1:E:117:MET:HE2	2.28	0.48
1:E:263:GLU:HG2	1:E:263:GLU:O	2.12	0.48
1:F:87:TYR:HA	1:G:52:PHE:CE1	2.49	0.48
1:I:108:ASN:HD21	1:I:271:LEU:CA	2.27	0.48
1:J:226:LEU:O	1:J:227:GLN:HG2	2.12	0.48
1:C:15:ILE:C	1:C:17:ARG:N	2.71	0.48
1:C:21:ASN:O	1:C:25:ILE:HG13	2.14	0.48
1:C:116:ASP:O	1:C:117:MET:O	2.31	0.48
1:C:168:GLN:CD	1:C:169:LEU:N	2.72	0.48
1:C:169:LEU:O	1:C:170:SER:HB3	2.14	0.48
1:D:262:GLU:O	1:D:265:CYS:HB3	2.13	0.48
1:E:171:LEU:C	1:E:173:GLN:N	2.72	0.48
1:F:105:LYS:O	1:F:118:GLY:HA3	2.14	0.48
1:G:63:VAL:HG22	1:G:64:GLY:N	2.26	0.48
1:G:227:GLN:O	1:G:228:THR:O	2.32	0.48
1:H:162:ARG:HH12	1:I:193:SER:HA	1.78	0.48
1:I:129:PRO:HB2	1:I:132:PRO:CD	2.44	0.48
1:I:252:SER:O	1:I:256:VAL:HG23	2.13	0.48
1:I:269:ASN:CG	1:I:276:VAL:HG22	2.38	0.48
1:K:213:GLN:NE2	1:L:211:ASN:CG	2.66	0.48
1:K:275:ASN:HB2	1:K:277:LYS:HE2	1.95	0.48
1:L:59:GLN:O	1:L:60:PHE:CD1	2.67	0.48
1:B:42:GLU:N	1:B:277:LYS:HZ2	2.12	0.48
1:D:174:VAL:C	1:D:176:ASN:N	2.71	0.48
1:E:109:TYR:C	1:E:111:ASP:N	2.69	0.48
1:E:266:GLU:O	1:E:268:ILE:N	2.40	0.48
1:F:223:THR:O	1:F:225:LYS:N	2.47	0.48
1:F:284:ILE:N	1:F:284:ILE:CD1	2.75	0.48
1:G:117:MET:HB3	1:G:271:LEU:CD2	2.44	0.48
1:H:34:LEU:HD13	1:H:222:MET:HE1	1.95	0.48
1:H:43:ASN:CG	1:H:275:ASN:OD1	2.56	0.48
1:H:53:LEU:C	1:H:53:LEU:CD2	2.87	0.48
1:H:71:ILE:C	1:H:74:ILE:HD11	2.39	0.48
1:J:223:THR:C	1:J:225:LYS:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:87:TYR:OH	1:L:48:ILE:HD13	2.14	0.48
1:B:35:ALA:C	1:B:37:GLN:N	2.72	0.47
1:B:176:ASN:C	1:B:178:TYR:N	2.66	0.47
1:B:221:MET:HE3	1:B:224:PHE:HB3	1.95	0.47
1:C:98:PRO:O	1:C:99:VAL:CB	2.62	0.47
1:C:221:MET:HE2	1:C:225:LYS:HE3	1.96	0.47
1:C:265:CYS:HA	1:C:268:ILE:CG1	2.44	0.47
1:D:85:ASP:OD2	1:D:85:ASP:C	2.57	0.47
1:D:216:ALA:O	1:D:217:VAL:C	2.58	0.47
1:E:85:ASP:O	1:E:87:TYR:N	2.45	0.47
1:E:125:ASP:OD1	1:E:126:MET:HG3	2.13	0.47
1:E:257:PHE:O	1:E:258:LEU:C	2.57	0.47
1:F:66:TYR:CD2	1:F:100:TYR:OH	2.67	0.47
1:G:16:GLN:CA	1:G:16:GLN:HE21	2.27	0.47
1:H:30:TYR:O	1:H:34:LEU:HG	2.14	0.47
1:H:66:TYR:CE1	1:H:68:ASP:HA	2.49	0.47
1:H:223:THR:O	1:H:225:LYS:N	2.47	0.47
1:H:226:LEU:O	1:H:226:LEU:HD23	2.14	0.47
1:I:65:PHE:N	1:I:119:VAL:O	2.36	0.47
1:I:274:LEU:CD1	1:I:275:ASN:N	2.77	0.47
1:I:275:ASN:O	1:I:275:ASN:ND2	2.47	0.47
1:K:41:TRP:O	1:K:42:GLU:HB3	2.13	0.47
1:L:168:GLN:CD	1:L:169:LEU:HG	2.39	0.47
1:L:188:HIS:O	1:L:189:GLU:CB	2.62	0.47
1:A:146:GLU:O	1:A:150:VAL:HG23	2.14	0.47
1:B:58:HIS:C	1:B:59:GLN:O	2.57	0.47
1:B:248:GLU:HB2	1:C:282:TYR:CD2	2.49	0.47
1:C:252:SER:O	1:C:256:VAL:HG23	2.14	0.47
1:D:83:GLN:HE21	1:D:84:ARG:N	2.11	0.47
1:D:109:TYR:O	1:D:112:MET:N	2.47	0.47
1:D:130:THR:OG1	1:D:257:PHE:CE2	2.67	0.47
1:E:78:GLY:N	1:E:93:PHE:CE2	2.82	0.47
1:E:106:LEU:HD22	1:E:120:VAL:HG23	1.96	0.47
1:F:124:ASN:ND2	1:F:128:PHE:H	2.12	0.47
1:F:168:GLN:CD	1:F:169:LEU:N	2.72	0.47
1:F:284:ILE:HD12	1:F:284:ILE:H	1.77	0.47
1:G:57:ILE:HG23	1:G:123:ASN:HB2	1.95	0.47
1:G:172:LYS:HE2	1:H:179:GLU:OE1	2.14	0.47
1:H:177:GLN:C	1:H:179:GLU:N	2.71	0.47
1:H:227:GLN:O	1:H:228:THR:O	2.32	0.47
1:J:41:TRP:HB2	1:J:44:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:93:PHE:HB3	1:J:104:PHE:CG	2.48	0.47
1:B:68:ASP:OD1	1:B:102:LYS:HD2	2.14	0.47
1:B:226:LEU:HD22	1:B:251:ASP:OD1	2.15	0.47
1:C:274:LEU:HD23	1:C:275:ASN:N	2.30	0.47
1:D:275:ASN:O	1:D:277:LYS:HE3	2.14	0.47
1:E:28:LEU:HD23	1:E:32:GLN:CG	2.44	0.47
1:E:71:ILE:HD13	1:E:74:ILE:HD12	1.96	0.47
1:E:84:ARG:O	1:E:85:ASP:C	2.56	0.47
1:F:223:THR:C	1:F:225:LYS:N	2.70	0.47
1:G:39:PHE:N	1:G:280:PHE:O	2.47	0.47
1:I:85:ASP:OD1	1:I:89:GLN:O	2.32	0.47
1:I:226:LEU:C	1:I:227:GLN:HG2	2.39	0.47
1:J:41:TRP:HA	1:J:277:LYS:HB3	1.97	0.47
1:J:170:SER:O	1:J:171:LEU:O	2.33	0.47
1:K:213:GLN:O	1:K:216:ALA:HB3	2.13	0.47
1:L:22:ARG:HA	1:L:25:ILE:HD12	1.96	0.47
1:L:67:LYS:O	1:L:73:TYR:N	2.46	0.47
1:L:151:ASN:OD1	1:L:207:VAL:HG23	2.14	0.47
1:L:182:ALA:HB1	1:L:183:PRO:HD2	1.97	0.47
1:A:20:ARG:NE	1:A:146:GLU:CD	2.72	0.47
1:A:30:TYR:CE2	1:A:218:TRP:HH2	2.32	0.47
1:A:40:GLU:CD	1:A:279:LYS:HZ3	2.22	0.47
1:A:262:GLU:HG2	1:A:278:VAL:CG1	2.44	0.47
1:B:106:LEU:O	1:B:107:TYR:CB	2.59	0.47
1:C:17:ARG:N	1:C:17:ARG:CD	2.77	0.47
1:C:100:TYR:CZ	1:C:102:LYS:HB2	2.48	0.47
1:C:166:ASN:HD21	1:C:170:SER:CB	2.27	0.47
1:D:41:TRP:O	1:D:277:LYS:NZ	2.47	0.47
1:D:164:ASN:O	1:D:164:ASN:CG	2.57	0.47
1:E:44:LEU:CA	1:E:275:ASN:HD21	2.21	0.47
1:E:141:LEU:CD2	1:E:217:VAL:HB	2.45	0.47
1:E:165:ASP:CB	1:E:191:LEU:HD23	2.44	0.47
1:E:266:GLU:O	1:E:270:GLU:HG2	2.14	0.47
1:F:124:ASN:HD21	1:F:128:PHE:H	1.61	0.47
1:F:248:GLU:HG3	1:G:282:TYR:CD2	2.49	0.47
1:G:98:PRO:O	1:G:99:VAL:HB	2.15	0.47
1:G:162:ARG:NH1	1:H:193:SER:HA	2.29	0.47
1:G:269:ASN:ND2	1:G:274:LEU:O	2.47	0.47
1:I:124:ASN:HD21	1:I:128:PHE:CB	2.28	0.47
1:I:131:THR:N	1:I:132:PRO:HD2	2.30	0.47
1:J:67:LYS:CD	1:J:117:MET:SD	3.00	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:89:GLN:NE2	1:J:107:TYR:CE2	2.82	0.47
1:K:59:GLN:O	1:K:60:PHE:C	2.55	0.47
1:K:262:GLU:HG3	1:K:263:GLU:N	2.29	0.47
1:B:109:TYR:HA	1:B:270:GLU:CD	2.39	0.47
1:D:108:ASN:HD21	1:D:270:GLU:HG3	1.79	0.47
1:E:44:LEU:O	1:E:45:PRO:C	2.57	0.47
1:G:66:TYR:O	1:G:74:ILE:HG22	2.14	0.47
1:G:132:PRO:O	1:G:133:THR:C	2.57	0.47
1:I:43:ASN:CB	1:I:277:LYS:HZ1	2.24	0.47
1:I:43:ASN:CB	1:I:277:LYS:HZ3	2.26	0.47
1:J:104:PHE:CE2	1:J:118:GLY:HA3	2.49	0.47
1:J:171:LEU:HD22	1:J:175:TYR:CE1	2.49	0.47
1:K:250:ILE:O	1:K:253:SER:HB2	2.14	0.47
1:L:258:LEU:O	1:L:259:LYS:C	2.58	0.47
1:C:158:PRO:O	1:C:158:PRO:HG2	2.14	0.47
1:C:227:GLN:C	1:C:228:THR:O	2.56	0.47
1:E:66:TYR:CD2	1:E:68:ASP:HB2	2.50	0.47
1:E:252:SER:C	1:E:254:GLY:H	2.22	0.47
1:F:166:ASN:HD22	1:F:166:ASN:N	2.12	0.47
1:F:257:PHE:O	1:F:261:ARG:CD	2.63	0.47
1:G:171:LEU:CD2	1:G:175:TYR:CE1	2.97	0.47
1:H:150:VAL:HG11	1:I:156:LYS:CG	2.45	0.47
1:H:186:PHE:CD2	1:H:196:ILE:HD11	2.49	0.47
1:I:162:ARG:NE	1:I:164:ASN:ND2	2.61	0.47
1:J:266:GLU:O	1:J:270:GLU:HG3	2.14	0.47
1:L:30:TYR:CE2	1:L:218:TRP:CH2	3.03	0.47
1:L:69:PRO:O	1:L:70:VAL:CG1	2.57	0.47
1:A:14:GLU:C	1:A:16:GLN:N	2.72	0.47
1:A:39:PHE:HE1	1:A:258:LEU:HG	1.79	0.47
1:A:117:MET:HG3	1:A:118:GLY:N	2.29	0.47
1:A:124:ASN:C	1:A:126:MET:N	2.73	0.47
1:B:15:ILE:O	1:B:15:ILE:HG22	2.15	0.47
1:B:19:LYS:O	1:B:22:ARG:HB3	2.14	0.47
1:B:38:LEU:O	1:B:39:PHE:HB2	2.14	0.47
1:B:71:ILE:O	1:B:71:ILE:HG22	2.15	0.47
1:B:123:ASN:ND2	1:B:261:ARG:HH21	2.13	0.47
1:B:157:THR:N	1:B:158:PRO:HD3	2.29	0.47
1:C:166:ASN:ND2	1:C:170:SER:CB	2.78	0.47
1:D:23:TRP:CZ2	1:D:145:LYS:HE3	2.49	0.47
1:D:60:PHE:O	1:D:60:PHE:CD1	2.67	0.47
1:D:81:SER:N	1:D:92:VAL:O	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:153:ASN:C	1:D:155:GLN:N	2.71	0.47
1:E:24:PHE:CE1	1:E:28:LEU:HD12	2.50	0.47
1:E:45:PRO:C	1:E:47:THR:N	2.71	0.47
1:E:125:ASP:O	1:E:126:MET:HE3	2.15	0.47
1:E:264:ALA:O	1:E:265:CYS:C	2.57	0.47
1:F:41:TRP:CH2	1:F:121:ILE:HD13	2.49	0.47
1:F:264:ALA:C	1:F:266:GLU:N	2.73	0.47
1:G:52:PHE:C	1:G:52:PHE:HD2	2.23	0.47
1:G:158:PRO:O	1:G:159:VAL:HB	2.14	0.47
1:G:255:THR:HG23	1:G:259:LYS:HB2	1.97	0.47
1:G:283:ASP:O	1:G:285:VAL:N	2.48	0.47
1:H:108:ASN:HD21	1:H:117:MET:HB2	1.80	0.47
1:H:126:MET:O	1:H:128:PHE:N	2.45	0.47
1:H:148:ILE:HG23	1:H:207:VAL:HG13	1.96	0.47
1:H:259:LYS:O	1:H:260:SER:C	2.56	0.47
1:H:260:SER:HA	1:H:263:GLU:HB3	1.95	0.47
1:H:275:ASN:HB3	1:H:277:LYS:HZ3	1.79	0.47
1:J:15:ILE:HG22	1:J:15:ILE:O	2.15	0.47
1:J:203:ALA:O	1:J:204:PRO:C	2.55	0.47
1:J:264:ALA:O	1:J:265:CYS:C	2.56	0.47
1:J:265:CYS:O	1:J:268:ILE:HB	2.14	0.47
1:K:41:TRP:C	1:K:277:LYS:HG2	2.40	0.47
1:K:76:CYS:SG	1:K:95:ALA:CB	3.02	0.47
1:K:223:THR:HG23	1:K:250:ILE:HG23	1.95	0.47
1:L:50:PRO:O	1:L:51:SER:C	2.57	0.47
1:A:133:THR:HG21	1:A:224:PHE:CD2	2.48	0.47
1:B:42:GLU:N	1:B:277:LYS:CB	2.77	0.47
1:B:175:TYR:O	1:B:178:TYR:HD2	1.98	0.47
1:C:94:ARG:HG2	1:C:103:GLU:CG	2.44	0.47
1:D:105:LYS:CE	1:D:105:LYS:N	2.78	0.47
1:D:125:ASP:O	1:D:126:MET:C	2.55	0.47
1:E:141:LEU:HD23	1:E:217:VAL:HB	1.96	0.47
1:E:174:VAL:O	1:E:177:GLN:CG	2.60	0.47
1:F:41:TRP:HZ3	1:F:265:CYS:CB	2.18	0.47
1:G:12:ILE:HG22	1:G:16:GLN:HB2	1.97	0.47
1:G:16:GLN:HA	1:G:16:GLN:HE21	1.80	0.47
1:G:249:GLN:CA	1:G:252:SER:HB2	2.39	0.47
1:H:74:ILE:N	1:H:74:ILE:CD1	2.71	0.47
1:H:109:TYR:CD1	1:H:110:ARG:N	2.81	0.47
1:H:263:GLU:O	1:H:263:GLU:CG	2.63	0.47
1:I:109:TYR:CG	1:I:110:ARG:N	2.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:271:LEU:O	1:I:271:LEU:CG	2.59	0.47
1:K:44:LEU:HD13	1:K:48:ILE:CG2	2.45	0.47
1:K:62:TYR:O	1:K:121:ILE:O	2.33	0.47
1:K:117:MET:CG	1:K:118:GLY:N	2.69	0.47
1:K:129:PRO:O	1:K:132:PRO:HD2	2.15	0.47
1:L:20:ARG:HG2	1:L:146:GLU:HG2	1.96	0.47
1:L:106:LEU:HA	1:L:118:GLY:O	2.15	0.47
1:C:151:ASN:O	1:C:154:ALA:HB3	2.15	0.47
1:D:157:THR:N	1:D:158:PRO:HD3	2.30	0.47
1:D:165:ASP:O	1:D:166:ASN:C	2.58	0.47
1:E:68:ASP:HB3	1:E:71:ILE:O	2.15	0.47
1:F:178:TYR:O	1:F:179:GLU:C	2.56	0.47
1:G:82:GLY:HA3	1:G:92:VAL:HG12	1.97	0.47
1:G:86:VAL:CG1	1:G:87:TYR:N	2.78	0.47
1:G:152:GLN:O	1:G:155:GLN:HG2	2.15	0.47
1:H:168:GLN:HG3	1:H:188:HIS:CE1	2.50	0.47
1:J:101:GLN:O	1:J:102:LYS:HB2	2.15	0.47
1:K:56:SER:O	1:K:59:GLN:O	2.33	0.47
1:K:152:GLN:O	1:K:155:GLN:HG2	2.15	0.47
1:K:165:ASP:HB3	1:K:167:ASN:HD21	1.78	0.47
1:L:13:ASN:HA	1:L:16:GLN:HB2	1.96	0.47
1:L:168:GLN:CD	1:L:168:GLN:C	2.82	0.47
1:B:103:GLU:CG	1:B:104:PHE:H	2.28	0.47
1:C:226:LEU:HA	1:C:250:ILE:HG22	1.97	0.47
1:D:250:ILE:HD12	1:D:250:ILE:N	2.21	0.47
1:D:258:LEU:HD13	1:D:280:PHE:CZ	2.49	0.47
1:F:67:LYS:HB3	1:F:117:MET:HE3	1.97	0.47
1:F:117:MET:SD	1:F:271:LEU:HD11	2.55	0.47
1:I:117:MET:CE	1:I:119:VAL:HG23	2.45	0.47
1:I:274:LEU:HD12	1:I:275:ASN:OD1	2.15	0.47
1:K:31:LEU:HD21	1:K:218:TRP:CZ3	2.50	0.47
1:L:227:GLN:O	1:L:228:THR:O	2.33	0.47
1:A:272:TYR:O	1:A:273:GLY:O	2.33	0.46
1:B:252:SER:C	1:B:254:GLY:H	2.23	0.46
1:C:53:LEU:O	1:C:57:ILE:HG13	2.16	0.46
1:D:79:ALA:HB3	1:D:94:ARG:CZ	2.45	0.46
1:D:124:ASN:HD22	1:D:256:VAL:HG12	1.81	0.46
1:D:171:LEU:HD22	1:D:175:TYR:HE1	1.75	0.46
1:D:274:LEU:O	1:D:275:ASN:CB	2.59	0.46
1:G:113:LYS:HE2	1:G:272:TYR:HE2	1.79	0.46
1:H:27:TYR:CD2	1:H:141:LEU:HD13	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:124:ASN:ND2	1:I:126:MET:HB2	2.30	0.46
1:I:211:ASN:O	1:I:214:LYS:HB3	2.15	0.46
1:I:248:GLU:OE2	1:J:226:LEU:CG	2.63	0.46
1:J:224:PHE:CE1	1:K:30:TYR:CD1	3.03	0.46
1:K:68:ASP:C	1:K:70:VAL:N	2.73	0.46
1:K:123:ASN:O	1:K:124:ASN:CG	2.59	0.46
1:K:258:LEU:HG	1:K:258:LEU:O	2.15	0.46
1:L:40:GLU:O	1:L:278:VAL:O	2.33	0.46
1:L:74:ILE:O	1:L:74:ILE:HG23	2.15	0.46
1:A:11:SER:O	1:A:12:ILE:C	2.58	0.46
1:A:39:PHE:HE1	1:A:280:PHE:HE2	1.62	0.46
1:A:168:GLN:O	1:A:168:GLN:NE2	2.48	0.46
1:C:13:ASN:HA	1:C:16:GLN:HB3	1.96	0.46
1:C:42:GLU:HG3	1:C:279:LYS:HZ3	1.79	0.46
1:D:20:ARG:CZ	1:D:146:GLU:CD	2.88	0.46
1:D:170:SER:C	1:D:171:LEU:O	2.54	0.46
1:F:201:THR:O	1:G:159:VAL:HG21	2.15	0.46
1:F:265:CYS:SG	1:F:275:ASN:O	2.73	0.46
1:G:49:ASN:O	1:G:50:PRO:O	2.33	0.46
1:I:278:VAL:CG1	1:I:279:LYS:N	2.64	0.46
1:K:57:ILE:HG22	1:K:123:ASN:HB2	1.97	0.46
1:K:148:ILE:O	1:K:152:GLN:HB2	2.15	0.46
1:K:188:HIS:CD2	1:K:190:ALA:HB3	2.50	0.46
1:K:209:LYS:O	1:K:212:ALA:HB3	2.15	0.46
1:L:168:GLN:HE22	1:L:169:LEU:CG	2.23	0.46
1:A:66:TYR:O	1:A:74:ILE:HG22	2.15	0.46
1:B:22:ARG:HA	1:B:25:ILE:HD12	1.97	0.46
1:C:41:TRP:HB3	1:C:277:LYS:NZ	2.31	0.46
1:C:134:LEU:HD21	1:C:225:LYS:HE2	1.97	0.46
1:C:262:GLU:HA	1:C:278:VAL:HG21	1.97	0.46
1:D:114:GLU:O	1:D:115:GLU:C	2.59	0.46
1:E:129:PRO:C	1:E:132:PRO:HD2	2.41	0.46
1:F:28:LEU:HD11	1:F:135:GLU:CD	2.40	0.46
1:F:85:ASP:C	1:F:87:TYR:H	2.23	0.46
1:G:28:LEU:HD23	1:G:28:LEU:C	2.41	0.46
1:G:67:LYS:HD2	1:G:117:MET:HE3	1.97	0.46
1:H:11:SER:O	1:J:179:GLU:OE2	2.34	0.46
1:H:27:TYR:O	1:H:28:LEU:C	2.59	0.46
1:H:259:LYS:O	1:H:261:ARG:N	2.48	0.46
1:I:165:ASP:H	1:I:195:SER:HB2	1.79	0.46
1:I:201:THR:O	1:I:201:THR:CG2	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:42:GLU:H	1:J:277:LYS:HA	1.80	0.46
1:K:47:THR:HG21	1:K:73:TYR:O	2.15	0.46
1:K:222:MET:HB3	1:K:227:GLN:HB3	1.96	0.46
1:L:124:ASN:HD21	1:L:128:PHE:HB2	1.80	0.46
1:A:162:ARG:NH1	1:A:197:GLU:OE1	2.48	0.46
1:B:177:GLN:O	1:B:179:GLU:N	2.47	0.46
1:C:20:ARG:HG2	1:C:20:ARG:O	2.14	0.46
1:D:97:SER:O	1:D:99:VAL:N	2.48	0.46
1:D:107:TYR:HB2	1:D:267:LYS:NZ	2.30	0.46
1:D:124:ASN:ND2	1:D:125:ASP:CG	2.74	0.46
1:F:158:PRO:C	1:F:159:VAL:HG23	2.39	0.46
1:F:268:ILE:O	1:F:268:ILE:HG12	2.15	0.46
1:G:193:SER:C	1:G:195:SER:H	2.22	0.46
1:H:66:TYR:HB3	1:H:104:PHE:CE1	2.50	0.46
1:H:266:GLU:O	1:H:270:GLU:N	2.40	0.46
1:I:21:ASN:O	1:I:22:ARG:C	2.59	0.46
1:J:131:THR:HG22	1:J:132:PRO:CD	2.45	0.46
1:J:169:LEU:HD23	1:J:169:LEU:HA	1.77	0.46
1:J:188:HIS:O	1:J:188:HIS:ND1	2.49	0.46
1:K:68:ASP:OD1	1:K:70:VAL:HB	2.16	0.46
1:K:87:TYR:OH	1:L:48:ILE:HA	2.15	0.46
1:L:19:LYS:O	1:L:22:ARG:N	2.48	0.46
1:L:60:PHE:O	1:L:60:PHE:HD1	1.98	0.46
1:A:39:PHE:HE1	1:A:280:PHE:CE2	2.34	0.46
1:A:189:GLU:HG2	1:A:189:GLU:O	2.15	0.46
1:B:106:LEU:HD23	1:B:119:VAL:HA	1.96	0.46
1:B:151:ASN:HB3	1:B:207:VAL:HG22	1.97	0.46
1:B:189:GLU:O	1:B:189:GLU:HG2	2.15	0.46
1:D:84:ARG:HH11	1:D:84:ARG:CB	2.16	0.46
1:E:43:ASN:O	1:E:277:LYS:HE2	2.16	0.46
1:F:106:LEU:HD22	1:F:120:VAL:HG22	1.98	0.46
1:F:188:HIS:O	1:F:190:ALA:N	2.42	0.46
1:G:126:MET:HE3	1:G:128:PHE:HE1	1.81	0.46
1:G:133:THR:HG21	1:G:224:PHE:CZ	2.50	0.46
1:G:271:LEU:C	1:G:272:TYR:CD2	2.93	0.46
1:I:47:THR:HG21	1:I:72:SER:O	2.15	0.46
1:I:77:ASN:O	1:I:96:ALA:HB3	2.16	0.46
1:I:109:TYR:CE2	1:I:112:MET:SD	3.07	0.46
1:I:162:ARG:HH11	1:J:193:SER:HA	1.77	0.46
1:J:41:TRP:HB3	1:J:277:LYS:HB3	1.98	0.46
1:A:265:CYS:SG	1:A:277:LYS:HG3	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:181:ASN:HD22	1:L:11:SER:N	2.14	0.46
1:D:89:GLN:HG2	1:D:90:ALA:C	2.40	0.46
1:E:109:TYR:O	1:E:113:LYS:HG3	2.15	0.46
1:F:85:ASP:C	1:G:99:VAL:HG11	2.40	0.46
1:G:104:PHE:CD1	1:G:104:PHE:C	2.93	0.46
1:H:79:ALA:HB3	1:H:94:ARG:NH1	2.30	0.46
1:H:248:GLU:HG3	1:H:249:GLN:N	2.30	0.46
1:K:38:LEU:O	1:K:39:PHE:HB2	2.16	0.46
1:K:45:PRO:O	1:K:47:THR:N	2.48	0.46
1:L:32:GLN:HG3	1:L:134:LEU:HD12	1.98	0.46
1:L:277:LYS:O	1:L:278:VAL:HB	2.16	0.46
1:A:52:PHE:HZ	1:A:77:ASN:ND2	2.13	0.46
1:A:134:LEU:O	1:A:138:ALA:HB2	2.16	0.46
1:A:274:LEU:CD1	1:A:275:ASN:H	2.26	0.46
1:B:49:ASN:HA	1:B:50:PRO:HD2	1.69	0.46
1:B:99:VAL:O	1:B:99:VAL:CG1	2.62	0.46
1:E:97:SER:CB	1:E:98:PRO:HD2	2.46	0.46
1:F:277:LYS:HZ3	1:F:278:VAL:N	1.99	0.46
1:G:66:TYR:CD2	1:G:100:TYR:OH	2.69	0.46
1:I:172:LYS:O	1:I:176:ASN:N	2.49	0.46
1:K:57:ILE:HG12	1:K:63:VAL:CG1	2.46	0.46
1:K:131:THR:N	1:K:132:PRO:HD2	2.31	0.46
1:K:137:PHE:HZ	1:K:220:GLU:OE2	1.99	0.46
1:B:62:TYR:OH	1:B:79:ALA:HA	2.15	0.46
1:B:175:TYR:O	1:B:178:TYR:CD2	2.68	0.46
1:B:258:LEU:HD22	1:B:262:GLU:CG	2.41	0.46
1:C:11:SER:N	1:E:181:ASN:HB2	2.30	0.46
1:C:47:THR:CB	1:C:73:TYR:H	2.28	0.46
1:C:93:PHE:HB2	1:C:106:LEU:CD2	2.46	0.46
1:D:47:THR:HB	1:D:73:TYR:O	2.16	0.46
1:D:222:MET:HE3	1:D:227:GLN:CG	2.45	0.46
1:E:252:SER:C	1:E:254:GLY:N	2.74	0.46
1:F:126:MET:HE3	1:F:126:MET:N	2.29	0.46
1:F:218:TRP:O	1:F:221:MET:HB3	2.16	0.46
1:H:116:ASP:O	1:H:117:MET:O	2.34	0.46
1:I:15:ILE:O	1:I:18:GLN:HB2	2.15	0.46
1:J:147:ILE:HD11	1:K:153:ASN:CG	2.41	0.46
1:J:277:LYS:C	1:J:278:VAL:HG23	2.41	0.46
1:K:115:GLU:O	1:K:116:ASP:HB2	2.16	0.46
1:L:97:SER:HB2	1:L:98:PRO:HD2	1.97	0.46
1:L:124:ASN:O	1:L:126:MET:N	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:154:ALA:C	1:L:156:LYS:N	2.74	0.46
1:L:158:PRO:C	1:L:159:VAL:HG23	2.41	0.46
1:L:168:GLN:OE1	1:L:169:LEU:N	2.49	0.46
1:B:27:TYR:O	1:B:31:LEU:HG	2.16	0.46
1:B:87:TYR:CE2	1:C:49:ASN:HB3	2.51	0.46
1:B:161:ILE:HG12	1:B:198:VAL:HG22	1.98	0.46
1:C:15:ILE:HG23	1:C:18:GLN:HB2	1.98	0.46
1:C:137:PHE:C	1:C:139:ALA:N	2.71	0.46
1:D:45:PRO:HG2	1:D:48:ILE:HD12	1.97	0.46
1:D:79:ALA:CB	1:D:94:ARG:NH2	2.79	0.46
1:D:179:GLU:HG3	1:D:180:GLY:N	2.31	0.46
1:F:259:LYS:HE2	1:F:263:GLU:OE1	2.16	0.46
1:G:270:GLU:C	1:G:272:TYR:N	2.74	0.46
1:H:13:ASN:HB2	1:J:179:GLU:HG2	1.97	0.46
1:I:13:ASN:O	1:I:16:GLN:HB3	2.16	0.46
1:I:168:GLN:HB3	1:I:188:HIS:HE1	1.73	0.46
1:I:277:LYS:CG	1:I:278:VAL:H	2.14	0.46
1:A:274:LEU:CD1	1:A:275:ASN:N	2.76	0.46
1:B:60:PHE:C	1:B:62:TYR:N	2.68	0.46
1:B:218:TRP:O	1:B:222:MET:HG2	2.16	0.46
1:C:65:PHE:HB3	1:C:119:VAL:HG13	1.98	0.46
1:C:109:TYR:CE1	1:D:47:THR:CG2	2.99	0.46
1:E:53:LEU:CD2	1:E:54:GLU:H	2.27	0.46
1:E:126:MET:O	1:E:127:ALA:C	2.59	0.46
1:F:35:ALA:O	1:F:38:LEU:HD23	2.16	0.46
1:F:40:GLU:O	1:F:278:VAL:O	2.34	0.46
1:F:162:ARG:O	1:F:196:ILE:HA	2.15	0.46
1:G:19:LYS:HA	1:G:22:ARG:NH2	2.31	0.46
1:G:165:ASP:N	1:G:165:ASP:OD2	2.49	0.46
1:H:107:TYR:CG	1:H:108:ASN:N	2.84	0.46
1:I:203:ALA:O	1:I:204:PRO:C	2.57	0.46
1:I:282:TYR:CD2	1:I:283:ASP:N	2.83	0.46
1:J:39:PHE:CZ	1:J:257:PHE:CB	2.99	0.46
1:A:20:ARG:CG	1:A:146:GLU:HG3	2.44	0.45
1:B:66:TYR:CD2	1:B:100:TYR:OH	2.68	0.45
1:B:269:ASN:HD21	1:B:275:ASN:HB3	1.81	0.45
1:C:85:ASP:C	1:C:87:TYR:N	2.71	0.45
1:D:66:TYR:HD1	1:D:118:GLY:N	2.15	0.45
1:E:45:PRO:HG3	1:E:73:TYR:HD1	1.81	0.45
1:E:84:ARG:CD	1:E:90:ALA:HA	2.46	0.45
1:E:111:ASP:C	1:E:112:MET:HG2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:282:TYR:CD2	1:E:283:ASP:HB2	2.52	0.45
1:F:203:ALA:HB1	1:G:158:PRO:CG	2.45	0.45
1:J:102:LYS:HG3	1:J:103:GLU:H	1.81	0.45
1:J:265:CYS:O	1:J:268:ILE:N	2.45	0.45
1:K:60:PHE:O	1:K:61:GLY:C	2.59	0.45
1:K:172:LYS:O	1:K:176:ASN:OD1	2.34	0.45
1:L:279:LYS:HG2	1:L:281:ARG:H	1.81	0.45
1:A:39:PHE:CE1	1:A:258:LEU:HG	2.50	0.45
1:F:98:PRO:C	1:F:100:TYR:N	2.70	0.45
1:F:111:ASP:O	1:F:112:MET:HB2	2.16	0.45
1:G:83:GLN:NE2	1:G:84:ARG:N	2.65	0.45
1:G:225:LYS:O	1:G:226:LEU:HB3	2.15	0.45
1:G:283:ASP:HB3	1:G:284:ILE:H	1.59	0.45
1:H:47:THR:HG21	1:H:72:SER:OG	2.16	0.45
1:H:145:LYS:HE2	1:H:145:LYS:O	2.16	0.45
1:H:209:LYS:O	1:H:212:ALA:HB3	2.15	0.45
1:I:107:TYR:O	1:I:107:TYR:CG	2.69	0.45
1:J:177:GLN:O	1:J:178:TYR:C	2.59	0.45
1:L:43:ASN:C	1:L:277:LYS:HE2	2.40	0.45
1:L:164:ASN:HB3	1:L:195:SER:C	2.41	0.45
1:L:165:ASP:CG	1:L:195:SER:HB2	2.41	0.45
1:L:221:MET:O	1:L:224:PHE:HB3	2.16	0.45
1:A:13:ASN:O	1:A:17:ARG:CG	2.63	0.45
1:A:63:VAL:HG12	1:A:121:ILE:HB	1.98	0.45
1:A:282:TYR:O	1:A:284:ILE:N	2.49	0.45
1:B:80:LEU:HD21	1:B:120:VAL:HG21	1.97	0.45
1:B:172:LYS:HA	1:B:175:TYR:HB2	1.98	0.45
1:C:82:GLY:O	1:C:83:GLN:C	2.59	0.45
1:C:151:ASN:O	1:C:152:GLN:C	2.60	0.45
1:C:248:GLU:HG3	1:D:282:TYR:CG	2.52	0.45
1:C:268:ILE:C	1:C:270:GLU:N	2.71	0.45
1:D:172:LYS:C	1:D:174:VAL:N	2.73	0.45
1:E:37:GLN:NE2	1:E:38:LEU:N	2.64	0.45
1:E:92:VAL:HG13	1:E:104:PHE:O	2.16	0.45
1:F:56:SER:O	1:F:57:ILE:C	2.58	0.45
1:H:65:PHE:CD1	1:H:65:PHE:N	2.84	0.45
1:H:113:LYS:HE3	1:H:271:LEU:HD21	1.99	0.45
1:K:226:LEU:C	1:K:227:GLN:CG	2.87	0.45
1:A:47:THR:OG1	1:A:73:TYR:HB2	2.17	0.45
1:A:172:LYS:NZ	1:B:179:GLU:CD	2.75	0.45
1:B:44:LEU:HD23	1:B:275:ASN:CG	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:MET:O	1:B:112:MET:SD	2.74	0.45
1:D:109:TYR:O	1:D:110:ARG:C	2.58	0.45
1:G:89:GLN:HG2	1:G:90:ALA:N	2.31	0.45
1:H:168:GLN:C	1:H:168:GLN:CD	2.84	0.45
1:I:59:GLN:HB3	1:I:60:PHE:H	1.50	0.45
1:J:41:TRP:CH2	1:J:121:ILE:HG21	2.50	0.45
1:K:222:MET:O	1:K:227:GLN:HG3	2.17	0.45
1:L:59:GLN:O	1:L:60:PHE:C	2.59	0.45
1:B:12:ILE:O	1:D:181:ASN:ND2	2.46	0.45
1:B:89:GLN:OE1	1:B:90:ALA:N	2.49	0.45
1:B:130:THR:HG22	1:B:134:LEU:HG	1.99	0.45
1:B:178:TYR:HE2	1:C:181:ASN:O	1.99	0.45
1:C:16:GLN:C	1:C:17:ARG:HD2	2.41	0.45
1:C:163:ALA:HB3	1:D:187:ALA:CA	2.46	0.45
1:D:45:PRO:CG	1:D:48:ILE:HD12	2.46	0.45
1:D:199:PHE:CD1	1:D:199:PHE:N	2.85	0.45
1:E:171:LEU:O	1:E:172:LYS:HB3	2.17	0.45
1:E:224:PHE:O	1:E:224:PHE:CD2	2.70	0.45
1:F:188:HIS:O	1:F:188:HIS:CG	2.69	0.45
1:G:16:GLN:CD	1:G:20:ARG:HD3	2.41	0.45
1:G:249:GLN:O	1:G:253:SER:N	2.28	0.45
1:I:38:LEU:O	1:I:39:PHE:CB	2.65	0.45
1:I:169:LEU:HB3	1:I:186:PHE:CE1	2.48	0.45
1:J:117:MET:HB3	1:J:271:LEU:CD2	2.46	0.45
1:K:93:PHE:CE2	1:K:95:ALA:HB2	2.51	0.45
1:K:266:GLU:O	1:K:267:LYS:C	2.60	0.45
1:L:43:ASN:CB	1:L:277:LYS:HE2	2.47	0.45
1:C:43:ASN:CA	1:C:277:LYS:HZ3	2.26	0.45
1:C:83:GLN:O	1:C:83:GLN:HG3	2.17	0.45
1:C:101:GLN:O	1:C:101:GLN:CD	2.59	0.45
1:C:162:ARG:HG3	1:D:196:ILE:HD13	1.98	0.45
1:D:38:LEU:HB2	1:D:39:PHE:CD2	2.52	0.45
1:D:119:VAL:CG1	1:D:120:VAL:N	2.79	0.45
1:D:264:ALA:O	1:D:267:LYS:HB3	2.17	0.45
1:E:13:ASN:O	1:E:17:ARG:HB2	2.16	0.45
1:E:93:PHE:HB3	1:E:104:PHE:HB3	1.91	0.45
1:F:65:PHE:CG	1:F:268:ILE:HD12	2.51	0.45
1:F:124:ASN:HD22	1:F:126:MET:HE3	1.82	0.45
1:G:30:TYR:CE2	1:G:218:TRP:HH2	2.34	0.45
1:G:74:ILE:HD13	1:G:100:TYR:CE2	2.51	0.45
1:G:89:GLN:CD	1:G:107:TYR:OH	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:221:MET:HG3	1:G:225:LYS:HE2	1.98	0.45
1:H:110:ARG:O	1:H:111:ASP:CB	2.64	0.45
1:H:124:ASN:HA	1:H:256:VAL:O	2.17	0.45
1:H:201:THR:CG2	1:J:183:PRO:HG3	2.44	0.45
1:I:25:ILE:O	1:I:26:HIS:C	2.58	0.45
1:I:108:ASN:ND2	1:I:270:GLU:C	2.74	0.45
1:I:146:GLU:OE2	1:J:156:LYS:NZ	2.37	0.45
1:J:140:GLU:OE2	1:K:145:LYS:NZ	2.50	0.45
1:K:89:GLN:CD	1:K:90:ALA:N	2.74	0.45
1:K:171:LEU:O	1:K:172:LYS:HB3	2.16	0.45
1:L:110:ARG:C	1:L:112:MET:H	2.24	0.45
1:A:253:SER:O	1:A:254:GLY:C	2.59	0.45
1:A:274:LEU:HD12	1:A:274:LEU:N	2.31	0.45
1:C:34:LEU:O	1:C:37:GLN:NE2	2.49	0.45
1:C:175:TYR:O	1:C:178:TYR:N	2.45	0.45
1:D:107:TYR:HB2	1:D:267:LYS:CD	2.37	0.45
1:F:103:GLU:C	1:F:104:PHE:CD1	2.95	0.45
1:G:51:SER:N	1:G:54:GLU:OE1	2.41	0.45
1:G:109:TYR:HB2	1:G:112:MET:CB	2.42	0.45
1:H:57:ILE:HD11	1:H:121:ILE:HB	1.98	0.45
1:I:87:TYR:O	1:I:88:ASN:CB	2.62	0.45
1:I:92:VAL:CG1	1:I:93:PHE:N	2.80	0.45
1:K:188:HIS:O	1:K:189:GLU:HB2	2.15	0.45
1:K:188:HIS:HB3	1:K:191:LEU:HG	1.98	0.45
1:L:269:ASN:OD1	1:L:274:LEU:CA	2.64	0.45
1:B:16:GLN:O	1:B:20:ARG:HG3	2.17	0.45
1:D:60:PHE:O	1:D:61:GLY:O	2.34	0.45
1:E:42:GLU:C	1:E:42:GLU:CD	2.84	0.45
1:E:106:LEU:HD12	1:E:107:TYR:HB2	1.98	0.45
1:E:115:GLU:OE1	1:E:116:ASP:OD2	2.33	0.45
1:E:136:LEU:HD13	1:F:22:ARG:HD2	1.97	0.45
1:E:221:MET:O	1:E:224:PHE:HB3	2.17	0.45
1:E:255:THR:O	1:E:256:VAL:C	2.60	0.45
1:E:265:CYS:SG	1:E:276:VAL:HA	2.57	0.45
1:F:140:GLU:HG3	1:G:23:TRP:CZ2	2.52	0.45
1:G:126:MET:SD	1:H:55:LYS:HE3	2.57	0.45
1:H:269:ASN:C	1:H:271:LEU:N	2.75	0.45
1:I:66:TYR:CE2	1:I:68:ASP:HA	2.52	0.45
1:I:150:VAL:HG11	1:J:156:LYS:CG	2.43	0.45
1:J:62:TYR:HB3	1:J:63:VAL:H	1.45	0.45
1:J:166:ASN:O	1:J:167:ASN:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:203:ALA:O	1:K:204:PRO:C	2.57	0.45
1:K:265:CYS:SG	1:K:276:VAL:CA	2.93	0.45
1:L:77:ASN:ND2	1:L:77:ASN:H	2.15	0.45
1:L:282:TYR:O	1:L:283:ASP:CG	2.60	0.45
1:A:44:LEU:HD13	1:A:48:ILE:CG2	2.47	0.45
1:B:98:PRO:C	1:B:100:TYR:N	2.75	0.45
1:C:68:ASP:OD1	1:C:70:VAL:N	2.33	0.45
1:C:281:ARG:O	1:C:281:ARG:CG	2.65	0.45
1:D:65:PHE:CD1	1:D:65:PHE:C	2.94	0.45
1:D:130:THR:OG1	1:D:257:PHE:HE2	2.00	0.45
1:E:172:LYS:HB2	1:F:185:ILE:CD1	2.44	0.45
1:F:105:LYS:HZ1	1:F:114:GLU:HB2	1.81	0.45
1:G:272:TYR:HD2	1:G:272:TYR:N	2.12	0.45
1:I:148:ILE:O	1:I:148:ILE:HG22	2.17	0.45
1:J:63:VAL:CG1	1:J:121:ILE:HB	2.46	0.45
1:J:104:PHE:CD2	1:J:118:GLY:HA3	2.52	0.45
1:K:35:ALA:HA	1:K:38:LEU:HD12	1.98	0.45
1:K:74:ILE:HD12	1:K:75:ALA:H	1.80	0.45
1:K:84:ARG:NH1	1:K:88:ASN:O	2.49	0.45
1:K:164:ASN:HB3	1:K:195:SER:HA	1.99	0.45
1:A:110:ARG:O	1:A:111:ASP:C	2.59	0.45
1:A:168:GLN:CA	1:A:168:GLN:NE2	2.78	0.45
1:A:248:GLU:HB3	1:B:282:TYR:CZ	2.51	0.45
1:A:262:GLU:HG2	1:A:278:VAL:HG11	1.99	0.45
1:B:247:ASP:C	1:B:249:GLN:N	2.74	0.45
1:C:44:LEU:C	1:C:44:LEU:CD1	2.90	0.45
1:C:228:THR:HB	1:C:250:ILE:HG13	1.99	0.45
1:D:277:LYS:O	1:D:279:LYS:N	2.43	0.45
1:D:280:PHE:C	1:D:282:TYR:N	2.74	0.45
1:E:11:SER:OG	1:E:12:ILE:N	2.38	0.45
1:E:163:ALA:HB3	1:F:187:ALA:CB	2.33	0.45
1:F:65:PHE:CB	1:F:119:VAL:HB	2.45	0.45
1:G:201:THR:HG22	1:H:198:VAL:HG11	1.99	0.45
1:H:162:ARG:NH1	1:I:193:SER:HA	2.32	0.45
1:H:273:GLY:C	1:H:274:LEU:HD22	2.41	0.45
1:I:30:TYR:CE2	1:I:218:TRP:CH2	3.05	0.45
1:J:108:ASN:O	1:J:109:TYR:CB	2.65	0.45
1:K:249:GLN:HB3	1:L:222:MET:CE	2.47	0.45
1:L:220:GLU:O	1:L:221:MET:C	2.60	0.45
1:A:110:ARG:NH2	1:B:46:PRO:HG2	2.33	0.44
1:A:187:ALA:HA	1:L:163:ALA:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:52:PHE:C	1:B:52:PHE:CD2	2.94	0.44
1:B:108:ASN:ND2	1:B:268:ILE:N	2.64	0.44
1:C:42:GLU:OE2	1:C:279:LYS:NZ	2.35	0.44
1:E:222:MET:HB3	1:E:227:GLN:CB	2.46	0.44
1:E:248:GLU:HB3	1:F:282:TYR:CG	2.53	0.44
1:E:268:ILE:CG2	1:E:269:ASN:ND2	2.79	0.44
1:F:57:ILE:CG2	1:F:123:ASN:HA	2.47	0.44
1:F:188:HIS:C	1:F:190:ALA:N	2.75	0.44
1:H:81:SER:OG	1:H:92:VAL:HB	2.16	0.44
1:I:14:GLU:C	1:I:16:GLN:H	2.25	0.44
1:I:114:GLU:O	1:I:115:GLU:C	2.60	0.44
1:J:60:PHE:O	1:J:61:GLY:O	2.35	0.44
1:J:108:ASN:OD1	1:J:271:LEU:HB2	2.16	0.44
1:L:23:TRP:HE3	1:L:27:TYR:CE1	2.35	0.44
1:A:110:ARG:CG	1:A:111:ASP:N	2.80	0.44
1:A:255:THR:O	1:A:255:THR:HG22	2.17	0.44
1:B:66:TYR:CE2	1:B:100:TYR:OH	2.71	0.44
1:C:125:ASP:OD2	1:C:259:LYS:NZ	2.50	0.44
1:C:228:THR:HB	1:C:250:ILE:CD1	2.47	0.44
1:E:97:SER:HB2	1:E:98:PRO:HD2	1.99	0.44
1:E:258:LEU:HD12	1:E:280:PHE:CZ	2.53	0.44
1:G:72:SER:O	1:G:73:TYR:HB2	2.16	0.44
1:G:81:SER:N	1:G:90:ALA:HB1	2.32	0.44
1:G:263:GLU:OE1	1:H:50:PRO:HG2	2.17	0.44
1:H:269:ASN:O	1:H:271:LEU:N	2.40	0.44
1:I:126:MET:HE2	1:J:36:TYR:HE2	1.82	0.44
1:J:156:LYS:O	1:J:157:THR:CG2	2.63	0.44
1:J:168:GLN:C	1:J:168:GLN:CD	2.84	0.44
1:K:63:VAL:HG12	1:K:121:ILE:O	2.17	0.44
1:L:66:TYR:HE1	1:L:117:MET:N	2.15	0.44
1:L:110:ARG:O	1:L:111:ASP:C	2.60	0.44
1:A:54:GLU:O	1:A:55:LYS:C	2.61	0.44
1:B:42:GLU:N	1:B:277:LYS:NZ	2.65	0.44
1:B:247:ASP:CA	1:B:250:ILE:HG13	2.47	0.44
1:C:83:GLN:CA	1:C:83:GLN:HE21	2.30	0.44
1:C:117:MET:HG3	1:C:118:GLY:N	2.33	0.44
1:C:171:LEU:HD23	1:C:186:PHE:CD1	2.52	0.44
1:C:209:LYS:HB3	1:D:205:TYR:CE2	2.53	0.44
1:D:16:GLN:NE2	1:D:20:ARG:HE	2.15	0.44
1:E:110:ARG:O	1:E:111:ASP:HB3	2.17	0.44
1:E:113:LYS:O	1:E:114:GLU:CG	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:148:ILE:HG22	1:E:152:GLN:HG3	1.99	0.44
1:F:106:LEU:HA	1:F:118:GLY:CA	2.46	0.44
1:F:261:ARG:HA	1:F:264:ALA:HB3	1.98	0.44
1:G:171:LEU:HD22	1:G:175:TYR:HE1	1.82	0.44
1:H:82:GLY:HA3	1:H:91:THR:CB	2.43	0.44
1:H:82:GLY:HA3	1:H:92:VAL:HG23	2.00	0.44
1:I:265:CYS:O	1:I:266:GLU:C	2.60	0.44
1:J:260:SER:O	1:J:263:GLU:HB3	2.18	0.44
1:A:62:TYR:C	1:A:62:TYR:HD2	2.26	0.44
1:A:171:LEU:O	1:A:173:GLN:N	2.50	0.44
1:C:13:ASN:HD21	1:C:17:ARG:HE	1.63	0.44
1:C:39:PHE:HZ	1:C:257:PHE:HB2	1.82	0.44
1:C:172:LYS:HG3	1:C:172:LYS:O	2.16	0.44
1:D:88:ASN:CG	1:D:88:ASN:O	2.59	0.44
1:D:174:VAL:C	1:D:176:ASN:H	2.24	0.44
1:E:205:TYR:CE2	1:E:207:VAL:HB	2.52	0.44
1:E:224:PHE:O	1:E:224:PHE:CG	2.71	0.44
1:F:24:PHE:CE2	1:F:28:LEU:HD12	2.52	0.44
1:F:177:GLN:O	1:F:178:TYR:C	2.60	0.44
1:G:164:ASN:O	1:G:166:ASN:N	2.48	0.44
1:G:167:ASN:ND2	1:G:190:ALA:HB1	2.31	0.44
1:I:248:GLU:O	1:I:252:SER:HB3	2.18	0.44
1:K:94:ARG:NE	1:K:103:GLU:OE1	2.51	0.44
1:L:121:ILE:HG12	1:L:264:ALA:HB1	1.99	0.44
1:A:124:ASN:HD21	1:A:128:PHE:N	2.16	0.44
1:A:151:ASN:OD1	1:A:207:VAL:HG23	2.18	0.44
1:C:248:GLU:HG3	1:D:282:TYR:CD2	2.52	0.44
1:D:11:SER:O	1:D:13:ASN:N	2.50	0.44
1:D:71:ILE:O	1:D:72:SER:HB3	2.18	0.44
1:F:65:PHE:CD2	1:F:268:ILE:CD1	3.00	0.44
1:F:94:ARG:CB	1:F:103:GLU:OE1	2.65	0.44
1:G:163:ALA:O	1:H:187:ALA:HA	2.17	0.44
1:G:164:ASN:OD1	1:H:191:LEU:O	2.34	0.44
1:G:221:MET:HA	1:G:221:MET:HE3	1.99	0.44
1:G:271:LEU:O	1:G:271:LEU:HD23	2.17	0.44
1:H:43:ASN:HB3	1:H:275:ASN:CG	2.43	0.44
1:H:109:TYR:OH	1:I:46:PRO:CB	2.63	0.44
1:I:101:GLN:OE1	1:I:101:GLN:O	2.35	0.44
1:I:199:PHE:CZ	1:J:196:ILE:HG22	2.53	0.44
1:I:219:ASN:O	1:I:220:GLU:C	2.58	0.44
1:I:221:MET:CE	1:I:225:LYS:HE3	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:92:VAL:HA	1:J:104:PHE:O	2.18	0.44
1:K:182:ALA:HB1	1:K:183:PRO:HD2	1.98	0.44
1:A:137:PHE:HE2	1:A:220:GLU:HB3	1.83	0.44
1:C:50:PRO:C	1:C:52:PHE:H	2.25	0.44
1:C:107:TYR:O	1:C:112:MET:SD	2.75	0.44
1:C:158:PRO:O	1:C:158:PRO:CG	2.66	0.44
1:D:114:GLU:C	1:D:115:GLU:O	2.58	0.44
1:F:66:TYR:O	1:F:68:ASP:OD2	2.36	0.44
1:G:79:ALA:HB3	1:G:94:ARG:HD2	1.98	0.44
1:G:166:ASN:HD21	1:G:170:SER:HB2	1.82	0.44
1:G:255:THR:O	1:G:256:VAL:C	2.61	0.44
1:H:23:TRP:O	1:H:26:HIS:HB3	2.18	0.44
1:H:35:ALA:O	1:H:36:TYR:C	2.61	0.44
1:H:85:ASP:C	1:I:99:VAL:HG11	2.42	0.44
1:I:110:ARG:HG3	1:I:111:ASP:N	2.32	0.44
1:J:172:LYS:CE	1:K:179:GLU:OE2	2.60	0.44
1:L:40:GLU:HB2	1:L:281:ARG:HE	1.82	0.44
1:L:97:SER:CB	1:L:98:PRO:CD	2.95	0.44
1:A:80:LEU:HD11	1:A:122:TYR:HE2	1.82	0.44
1:B:48:ILE:O	1:B:50:PRO:HD3	2.17	0.44
1:B:278:VAL:O	1:B:279:LYS:O	2.35	0.44
1:C:13:ASN:HA	1:C:16:GLN:HB2	1.99	0.44
1:C:39:PHE:HE1	1:C:280:PHE:CE2	2.35	0.44
1:C:60:PHE:HA	1:C:129:PRO:CG	2.46	0.44
1:D:100:TYR:CZ	1:D:102:LYS:HB2	2.53	0.44
1:D:153:ASN:O	1:D:155:GLN:N	2.51	0.44
1:E:137:PHE:HZ	1:E:220:GLU:OE2	2.01	0.44
1:F:283:ASP:HB3	1:F:284:ILE:H	1.54	0.44
1:G:213:GLN:O	1:G:217:VAL:HG23	2.18	0.44
1:G:214:LYS:O	1:G:215:ASN:C	2.61	0.44
1:G:268:ILE:C	1:G:269:ASN:HD22	2.26	0.44
1:H:179:GLU:CD	1:H:181:ASN:HB2	2.42	0.44
1:J:16:GLN:O	1:J:16:GLN:HG2	2.17	0.44
1:J:115:GLU:O	1:J:116:ASP:HB2	2.17	0.44
1:K:129:PRO:HB2	1:K:132:PRO:HD3	1.99	0.44
1:A:173:GLN:HA	1:A:176:ASN:ND2	2.29	0.44
1:B:163:ALA:O	1:C:187:ALA:CB	2.66	0.44
1:B:256:VAL:HG11	1:C:33:SER:OG	2.17	0.44
1:C:32:GLN:HG2	1:C:36:TYR:CZ	2.53	0.44
1:C:44:LEU:HD12	1:C:44:LEU:O	2.17	0.44
1:D:227:GLN:O	1:D:228:THR:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:250:ILE:H	1:D:250:ILE:CD1	2.21	0.44
1:E:25:ILE:O	1:E:26:HIS:C	2.58	0.44
1:F:117:MET:SD	1:F:271:LEU:HD21	2.57	0.44
1:F:170:SER:O	1:F:171:LEU:O	2.36	0.44
1:H:62:TYR:HE2	1:H:79:ALA:CA	2.19	0.44
1:I:89:GLN:OE1	1:I:107:TYR:CE2	2.71	0.44
1:I:124:ASN:C	1:I:126:MET:N	2.71	0.44
1:J:140:GLU:CD	1:K:145:LYS:NZ	2.76	0.44
1:K:129:PRO:HB2	1:K:132:PRO:CD	2.47	0.44
1:K:167:ASN:HB3	1:K:168:GLN:H	1.59	0.44
1:L:41:TRP:HB3	1:L:277:LYS:HG3	2.00	0.44
1:L:49:ASN:OD1	1:L:52:PHE:N	2.37	0.44
1:L:70:VAL:C	1:L:71:ILE:HG13	2.42	0.44
1:A:30:TYR:CE2	1:A:218:TRP:CH2	3.06	0.44
1:A:125:ASP:O	1:B:55:LYS:NZ	2.46	0.44
1:B:164:ASN:O	1:B:164:ASN:CG	2.60	0.44
1:C:108:ASN:OD1	1:C:270:GLU:OE1	2.36	0.44
1:D:124:ASN:C	1:D:125:ASP:O	2.56	0.44
1:E:174:VAL:CG1	1:E:177:GLN:NE2	2.68	0.44
1:E:250:ILE:N	1:E:250:ILE:HD12	2.33	0.44
1:H:126:MET:HE2	1:H:126:MET:HB2	1.84	0.44
1:H:155:GLN:O	1:H:158:PRO:HD3	2.18	0.44
1:H:213:GLN:HG3	1:I:207:VAL:CG1	2.48	0.44
1:I:277:LYS:O	1:I:278:VAL:CG2	2.66	0.44
1:J:21:ASN:O	1:J:22:ARG:C	2.59	0.44
1:J:123:ASN:HD21	1:J:261:ARG:NH2	2.15	0.44
1:J:172:LYS:NZ	1:K:179:GLU:CD	2.75	0.44
1:K:86:VAL:CG1	1:L:100:TYR:HB2	2.47	0.44
1:L:40:GLU:CG	1:L:281:ARG:HH21	2.30	0.44
1:A:109:TYR:CZ	1:A:111:ASP:HB2	2.53	0.43
1:B:108:ASN:HB2	1:B:109:TYR:H	1.43	0.43
1:C:151:ASN:HB3	1:C:207:VAL:HG22	2.00	0.43
1:D:62:TYR:CD2	1:D:80:LEU:HD21	2.53	0.43
1:G:49:ASN:HA	1:G:50:PRO:HD2	1.78	0.43
1:G:66:TYR:O	1:G:74:ILE:N	2.50	0.43
1:G:153:ASN:O	1:G:156:LYS:HB2	2.18	0.43
1:G:173:GLN:HA	1:G:176:ASN:ND2	2.31	0.43
1:H:266:GLU:O	1:H:267:LYS:C	2.61	0.43
1:I:57:ILE:N	1:I:63:VAL:HG21	2.33	0.43
1:I:109:TYR:CE1	1:J:46:PRO:O	2.70	0.43
1:J:27:TYR:O	1:J:28:LEU:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:248:GLU:O	1:L:249:GLN:C	2.61	0.43
1:A:222:MET:HB3	1:A:227:GLN:HG3	2.00	0.43
1:B:140:GLU:OE2	1:B:143:GLU:OE1	2.36	0.43
1:B:213:GLN:O	1:B:216:ALA:N	2.51	0.43
1:C:192:ASP:O	1:C:194:ASP:N	2.51	0.43
1:D:113:LYS:HE3	1:D:270:GLU:O	2.18	0.43
1:E:39:PHE:HD1	1:E:261:ARG:HH22	1.61	0.43
1:F:171:LEU:C	1:F:173:GLN:N	2.76	0.43
1:H:171:LEU:O	1:H:172:LYS:C	2.60	0.43
1:I:53:LEU:HD23	1:I:53:LEU:C	2.43	0.43
1:J:84:ARG:HH11	1:J:84:ARG:HG3	1.82	0.43
1:J:90:ALA:C	1:J:92:VAL:N	2.75	0.43
1:J:171:LEU:HB3	1:K:185:ILE:HD13	2.00	0.43
1:K:40:GLU:O	1:K:279:LYS:HB2	2.17	0.43
1:L:30:TYR:CE2	1:L:218:TRP:HH2	2.36	0.43
1:L:117:MET:HE2	1:L:118:GLY:N	2.23	0.43
1:A:185:ILE:HD13	1:L:171:LEU:HB3	2.00	0.43
1:C:162:ARG:NH1	1:C:197:GLU:OE1	2.51	0.43
1:C:169:LEU:HB3	1:C:186:PHE:CE1	2.54	0.43
1:C:261:ARG:HD2	1:C:278:VAL:HG13	2.00	0.43
1:D:171:LEU:C	1:D:173:GLN:N	2.76	0.43
1:D:177:GLN:HE22	1:D:184:VAL:CG1	2.31	0.43
1:E:93:PHE:HB3	1:E:104:PHE:CG	2.53	0.43
1:E:257:PHE:O	1:E:259:LYS:N	2.52	0.43
1:F:34:LEU:HD13	1:F:222:MET:HE1	1.99	0.43
1:F:47:THR:CG2	1:F:73:TYR:H	2.26	0.43
1:G:34:LEU:O	1:G:37:GLN:NE2	2.51	0.43
1:G:80:LEU:N	1:G:80:LEU:HD23	2.33	0.43
1:G:172:LYS:HA	1:G:175:TYR:HB2	2.01	0.43
1:H:27:TYR:O	1:H:31:LEU:HG	2.18	0.43
1:H:49:ASN:OD1	1:H:52:PHE:HB3	2.17	0.43
1:H:89:GLN:NE2	1:H:90:ALA:O	2.51	0.43
1:H:225:LYS:HB2	1:H:225:LYS:HE3	1.72	0.43
1:H:256:VAL:CG1	1:I:33:SER:HB3	2.41	0.43
1:J:67:LYS:HZ3	1:J:271:LEU:CD2	2.31	0.43
1:J:104:PHE:C	1:J:105:LYS:O	2.59	0.43
1:K:90:ALA:CB	1:K:106:LEU:HD12	2.48	0.43
1:K:247:ASP:CA	1:K:250:ILE:HG12	2.48	0.43
1:L:48:ILE:HD11	1:L:74:ILE:N	2.33	0.43
1:B:226:LEU:O	1:B:226:LEU:HG	2.18	0.43
1:D:62:TYR:CE2	1:D:80:LEU:HD21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:105:LYS:N	1:D:105:LYS:CD	2.81	0.43
1:D:125:ASP:O	1:D:126:MET:O	2.36	0.43
1:D:131:THR:N	1:D:132:PRO:HD2	2.33	0.43
1:D:274:LEU:CD1	1:D:275:ASN:H	2.31	0.43
1:E:124:ASN:OD1	1:E:128:PHE:HB2	2.17	0.43
1:E:169:LEU:HD12	1:E:187:ALA:O	2.19	0.43
1:F:13:ASN:O	1:F:16:GLN:HB3	2.18	0.43
1:G:47:THR:OG1	1:G:72:SER:OG	2.25	0.43
1:G:107:TYR:C	1:G:108:ASN:OD1	2.61	0.43
1:G:128:PHE:HA	1:G:129:PRO:HD3	1.75	0.43
1:H:20:ARG:HD2	1:H:146:GLU:OE1	2.17	0.43
1:I:56:SER:C	1:I:63:VAL:HG21	2.43	0.43
1:I:248:GLU:O	1:I:252:SER:CB	2.66	0.43
1:I:270:GLU:C	1:I:272:TYR:H	2.26	0.43
1:J:179:GLU:HB3	1:J:181:ASN:ND2	2.33	0.43
1:K:115:GLU:O	1:K:116:ASP:CB	2.65	0.43
1:K:163:ALA:HB3	1:L:187:ALA:CB	2.36	0.43
1:B:179:GLU:CB	1:L:11:SER:HA	2.44	0.43
1:C:43:ASN:HB3	1:C:44:LEU:H	1.60	0.43
1:C:260:SER:O	1:C:263:GLU:N	2.51	0.43
1:D:42:GLU:HB3	1:D:277:LYS:HD2	1.98	0.43
1:E:20:ARG:CG	1:E:146:GLU:HG3	2.47	0.43
1:E:131:THR:N	1:E:132:PRO:HD2	2.33	0.43
1:E:177:GLN:O	1:E:179:GLU:N	2.51	0.43
1:F:15:ILE:O	1:F:18:GLN:N	2.48	0.43
1:F:102:LYS:O	1:F:103:GLU:OE2	2.36	0.43
1:G:249:GLN:O	1:G:252:SER:HB2	2.19	0.43
1:H:90:ALA:HB3	1:H:106:LEU:HD12	1.99	0.43
1:H:266:GLU:O	1:H:270:GLU:HG3	2.19	0.43
1:I:167:ASN:OD1	1:I:168:GLN:N	2.52	0.43
1:K:66:TYR:O	1:K:74:ILE:HG22	2.18	0.43
1:L:60:PHE:O	1:L:61:GLY:O	2.37	0.43
1:L:61:GLY:O	1:L:62:TYR:C	2.61	0.43
1:L:66:TYR:HD1	1:L:117:MET:SD	2.41	0.43
1:L:134:LEU:O	1:L:138:ALA:HB2	2.18	0.43
1:L:168:GLN:CD	1:L:169:LEU:N	2.76	0.43
1:A:38:LEU:O	1:A:39:PHE:CB	2.66	0.43
1:A:152:GLN:C	1:A:154:ALA:H	2.26	0.43
1:A:222:MET:CA	1:A:227:GLN:HG3	2.48	0.43
1:B:39:PHE:HZ	1:B:257:PHE:CB	2.31	0.43
1:B:108:ASN:CB	1:B:267:LYS:O	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:188:HIS:ND1	1:B:188:HIS:C	2.75	0.43
1:B:275:ASN:OD1	1:B:275:ASN:O	2.37	0.43
1:C:269:ASN:OD1	1:C:274:LEU:HA	2.19	0.43
1:F:227:GLN:O	1:F:228:THR:C	2.61	0.43
1:G:16:GLN:NE2	1:G:20:ARG:CG	2.80	0.43
1:G:269:ASN:ND2	1:G:275:ASN:CB	2.80	0.43
1:H:62:TYR:O	1:H:63:VAL:CB	2.66	0.43
1:H:113:LYS:HD3	1:H:114:GLU:O	2.18	0.43
1:H:145:LYS:HB2	1:H:214:LYS:NZ	2.33	0.43
1:I:56:SER:HB3	1:I:63:VAL:HG21	1.99	0.43
1:K:57:ILE:HG12	1:K:63:VAL:HG11	2.00	0.43
1:L:40:GLU:HB2	1:L:281:ARG:HB2	2.00	0.43
1:L:226:LEU:HD13	1:L:251:ASP:OD1	2.19	0.43
1:A:18:GLN:O	1:A:18:GLN:HG2	2.18	0.43
1:A:152:GLN:C	1:A:154:ALA:N	2.73	0.43
1:A:154:ALA:C	1:A:156:LYS:N	2.75	0.43
1:B:215:ASN:O	1:B:219:ASN:OD1	2.37	0.43
1:C:268:ILE:HB	1:C:271:LEU:CD2	2.45	0.43
1:D:39:PHE:CD1	1:D:258:LEU:HD12	2.54	0.43
1:D:57:ILE:O	1:D:61:GLY:HA2	2.19	0.43
1:D:128:PHE:HA	1:D:129:PRO:HD3	1.66	0.43
1:D:265:CYS:O	1:D:269:ASN:N	2.36	0.43
1:E:98:PRO:O	1:E:99:VAL:CB	2.66	0.43
1:E:261:ARG:O	1:E:264:ALA:N	2.52	0.43
1:G:52:PHE:O	1:G:56:SER:OG	2.36	0.43
1:H:115:GLU:O	1:H:117:MET:N	2.44	0.43
1:I:52:PHE:O	1:I:56:SER:HB2	2.19	0.43
1:I:53:LEU:C	1:I:53:LEU:CD2	2.91	0.43
1:I:80:LEU:HB3	1:I:90:ALA:CB	2.48	0.43
1:I:223:THR:HG23	1:I:250:ILE:HG13	2.01	0.43
1:J:91:THR:N	1:J:106:LEU:HD12	2.33	0.43
1:J:182:ALA:HB1	1:J:183:PRO:HD2	2.01	0.43
1:K:150:VAL:HG11	1:L:156:LYS:HG2	2.01	0.43
1:K:201:THR:O	1:K:201:THR:CG2	2.67	0.43
1:L:39:PHE:O	1:L:54:GLU:OE2	2.37	0.43
1:C:43:ASN:HB2	1:C:277:LYS:CE	2.48	0.43
1:C:60:PHE:N	1:C:129:PRO:HB3	2.33	0.43
1:C:283:ASP:O	1:C:284:ILE:HB	2.17	0.43
1:D:14:GLU:O	1:D:17:ARG:N	2.47	0.43
1:D:171:LEU:O	1:D:172:LYS:CB	2.66	0.43
1:D:250:ILE:C	1:D:252:SER:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:278:VAL:O	1:D:279:LYS:C	2.62	0.43
1:E:63:VAL:O	1:E:63:VAL:CG1	2.67	0.43
1:E:109:TYR:O	1:E:111:ASP:N	2.45	0.43
1:E:129:PRO:O	1:E:132:PRO:HD2	2.19	0.43
1:E:259:LYS:NZ	1:F:281:ARG:NH1	2.66	0.43
1:G:38:LEU:HD11	1:G:225:LYS:CB	2.42	0.43
1:G:113:LYS:HE3	1:G:271:LEU:HA	2.01	0.43
1:H:18:GLN:O	1:H:21:ASN:HB2	2.18	0.43
1:H:63:VAL:HG13	1:H:65:PHE:HE1	1.84	0.43
1:I:136:LEU:HD13	1:J:22:ARG:HD2	2.00	0.43
1:I:268:ILE:O	1:I:271:LEU:HB3	2.18	0.43
1:K:62:TYR:CE1	1:K:127:ALA:HB1	2.54	0.43
1:K:275:ASN:ND2	1:K:277:LYS:CE	2.80	0.43
1:A:123:ASN:ND2	1:A:130:THR:OG1	2.50	0.43
1:C:106:LEU:CD2	1:C:120:VAL:HG13	2.43	0.43
1:C:259:LYS:HG3	1:D:281:ARG:HH21	1.78	0.43
1:E:148:ILE:O	1:E:152:GLN:HG3	2.19	0.43
1:F:24:PHE:CZ	1:F:28:LEU:HD12	2.53	0.43
1:F:44:LEU:HB3	1:F:48:ILE:HD11	2.00	0.43
1:G:105:LYS:H	1:G:105:LYS:CE	2.32	0.43
1:H:259:LYS:C	1:H:261:ARG:N	2.74	0.43
1:I:168:GLN:HE22	1:I:169:LEU:CD2	2.32	0.43
1:J:49:ASN:C	1:J:49:ASN:HD22	2.26	0.43
1:J:105:LYS:HD3	1:J:114:GLU:CD	2.43	0.43
1:K:47:THR:O	1:K:48:ILE:C	2.61	0.43
1:K:171:LEU:C	1:K:173:GLN:H	2.27	0.43
1:L:62:TYR:O	1:L:121:ILE:O	2.36	0.43
1:L:85:ASP:C	1:L:87:TYR:H	2.26	0.43
1:L:227:GLN:O	1:L:228:THR:C	2.62	0.43
1:A:74:ILE:HG12	1:A:75:ALA:H	1.82	0.43
1:A:158:PRO:O	1:A:159:VAL:CB	2.57	0.43
1:B:108:ASN:HD21	1:B:119:VAL:HG21	1.79	0.43
1:D:16:GLN:O	1:D:20:ARG:HG3	2.18	0.43
1:D:248:GLU:HB3	1:E:282:TYR:CD2	2.54	0.43
1:D:258:LEU:C	1:D:258:LEU:CD2	2.92	0.43
1:E:47:THR:HB	1:E:73:TYR:O	2.19	0.43
1:E:86:VAL:CG1	1:E:87:TYR:N	2.73	0.43
1:F:38:LEU:HD11	1:F:225:LYS:HB2	1.99	0.43
1:F:85:ASP:CG	1:F:86:VAL:H	2.27	0.43
1:F:271:LEU:O	1:F:272:TYR:CB	2.67	0.43
1:G:107:TYR:O	1:G:108:ASN:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:151:ASN:O	1:H:155:GLN:NE2	2.42	0.43
1:I:90:ALA:O	1:I:106:LEU:HD12	2.19	0.43
1:I:266:GLU:CA	1:I:269:ASN:HD22	2.23	0.43
1:K:43:ASN:HB3	1:K:277:LYS:CE	2.48	0.43
1:K:191:LEU:N	1:K:191:LEU:HD23	2.33	0.43
1:K:273:GLY:O	1:K:274:LEU:O	2.37	0.43
1:L:103:GLU:O	1:L:103:GLU:HG3	2.18	0.43
1:A:162:ARG:CZ	1:B:193:SER:HA	2.49	0.42
1:B:53:LEU:HD11	1:B:121:ILE:CD1	2.42	0.42
1:B:87:TYR:CZ	1:C:49:ASN:HB3	2.53	0.42
1:B:225:LYS:HB3	1:B:257:PHE:HE1	1.83	0.42
1:B:268:ILE:O	1:B:269:ASN:C	2.62	0.42
1:C:15:ILE:C	1:C:17:ARG:H	2.27	0.42
1:D:87:TYR:O	1:D:88:ASN:HB3	2.19	0.42
1:D:169:LEU:HD23	1:D:169:LEU:HA	1.80	0.42
1:D:222:MET:HE3	1:D:227:GLN:CD	2.43	0.42
1:D:271:LEU:HD23	1:D:271:LEU:HA	1.79	0.42
1:E:38:LEU:HD11	1:E:225:LYS:CE	2.48	0.42
1:E:39:PHE:CD1	1:E:261:ARG:NH1	2.83	0.42
1:E:66:TYR:HD2	1:E:68:ASP:HB2	1.84	0.42
1:E:125:ASP:OD2	1:F:55:LYS:HD3	2.19	0.42
1:E:179:GLU:HG3	1:E:180:GLY:N	2.34	0.42
1:F:48:ILE:HG22	1:F:74:ILE:C	2.43	0.42
1:F:259:LYS:HG2	1:F:263:GLU:CD	2.43	0.42
1:G:142:ALA:O	1:G:146:GLU:HB2	2.19	0.42
1:I:25:ILE:HG22	1:I:29:ASN:ND2	2.34	0.42
1:I:110:ARG:HG2	1:J:46:PRO:CG	2.48	0.42
1:K:210:LEU:CD2	1:L:205:TYR:HE1	2.32	0.42
1:K:273:GLY:O	1:K:274:LEU:C	2.62	0.42
1:L:66:TYR:OH	1:L:116:ASP:HA	2.19	0.42
1:L:85:ASP:C	1:L:87:TYR:N	2.76	0.42
1:L:177:GLN:O	1:L:178:TYR:O	2.37	0.42
1:A:15:ILE:HG22	1:A:15:ILE:O	2.19	0.42
1:A:44:LEU:HD13	1:A:48:ILE:HG22	2.01	0.42
1:A:129:PRO:C	1:A:132:PRO:HD2	2.44	0.42
1:A:151:ASN:O	1:A:155:GLN:NE2	2.36	0.42
1:A:280:PHE:HB3	1:A:283:ASP:HB2	2.01	0.42
1:B:62:TYR:CZ	1:B:79:ALA:HA	2.53	0.42
1:B:87:TYR:CD2	1:C:49:ASN:HB3	2.54	0.42
1:B:134:LEU:O	1:B:138:ALA:HB2	2.19	0.42
1:B:269:ASN:HD21	1:B:275:ASN:H	1.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:280:PHE:C	1:B:282:TYR:H	2.26	0.42
1:C:30:TYR:CZ	1:C:34:LEU:HD11	2.53	0.42
1:C:57:ILE:HG12	1:C:63:VAL:HB	2.02	0.42
1:C:279:LYS:HD2	1:C:281:ARG:H	1.85	0.42
1:D:35:ALA:HB2	1:D:225:LYS:NZ	2.32	0.42
1:D:35:ALA:O	1:D:36:TYR:C	2.61	0.42
1:D:221:MET:HE2	1:D:225:LYS:HE2	2.01	0.42
1:F:68:ASP:HB3	1:F:69:PRO:CD	2.43	0.42
1:F:159:VAL:HA	1:F:199:PHE:O	2.20	0.42
1:F:257:PHE:O	1:F:261:ARG:HD2	2.19	0.42
1:F:277:LYS:HZ2	1:F:277:LYS:C	2.26	0.42
1:G:86:VAL:HG13	1:G:87:TYR:CD1	2.54	0.42
1:G:278:VAL:HG12	1:G:279:LYS:N	2.34	0.42
1:H:68:ASP:HA	1:H:69:PRO:HD2	1.85	0.42
1:I:112:MET:O	1:I:113:LYS:CB	2.54	0.42
1:J:41:TRP:CH2	1:J:261:ARG:HB3	2.54	0.42
1:J:57:ILE:HG12	1:J:63:VAL:HG11	2.00	0.42
1:J:71:ILE:O	1:J:72:SER:C	2.61	0.42
1:J:87:TYR:O	1:J:88:ASN:CB	2.68	0.42
1:J:173:GLN:O	1:J:176:ASN:HB2	2.19	0.42
1:J:226:LEU:O	1:J:227:GLN:CG	2.66	0.42
1:J:248:GLU:O	1:J:250:ILE:N	2.53	0.42
1:K:97:SER:C	1:K:99:VAL:H	2.26	0.42
1:K:124:ASN:N	1:K:260:SER:OG	2.51	0.42
1:L:71:ILE:O	1:L:72:SER:C	2.60	0.42
1:A:222:MET:CB	1:A:227:GLN:HG3	2.49	0.42
1:B:35:ALA:O	1:B:37:GLN:N	2.52	0.42
1:B:151:ASN:OD1	1:B:207:VAL:HG23	2.19	0.42
1:C:23:TRP:O	1:C:27:TYR:CD1	2.72	0.42
1:C:109:TYR:O	1:C:112:MET:HG3	2.19	0.42
1:C:172:LYS:HB2	1:D:185:ILE:HD12	2.02	0.42
1:E:63:VAL:HG12	1:E:121:ILE:HB	2.00	0.42
1:E:98:PRO:O	1:E:99:VAL:HB	2.19	0.42
1:E:144:LEU:O	1:E:148:ILE:HG13	2.18	0.42
1:E:168:GLN:HB3	1:E:188:HIS:CG	2.54	0.42
1:F:172:LYS:NZ	1:G:179:GLU:OE1	2.46	0.42
1:H:109:TYR:CZ	1:I:46:PRO:HB2	2.53	0.42
1:I:104:PHE:CD1	1:I:118:GLY:HA3	2.54	0.42
1:I:117:MET:HE1	1:I:271:LEU:HD22	1.96	0.42
1:I:176:ASN:O	1:I:177:GLN:C	2.62	0.42
1:J:45:PRO:C	1:J:47:THR:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:47:THR:HG21	1:J:72:SER:CB	2.48	0.42
1:J:117:MET:HE3	1:J:271:LEU:HD13	2.01	0.42
1:J:281:ARG:HG3	1:J:281:ARG:NH1	2.33	0.42
1:K:120:VAL:HG11	1:K:122:TYR:CZ	2.54	0.42
1:L:62:TYR:C	1:L:63:VAL:HG23	2.44	0.42
1:L:67:LYS:N	1:L:117:MET:SD	2.86	0.42
1:B:124:ASN:ND2	1:B:125:ASP:O	2.53	0.42
1:B:277:LYS:C	1:B:278:VAL:HG23	2.44	0.42
1:C:109:TYR:CE1	1:D:47:THR:HA	2.55	0.42
1:C:274:LEU:CD2	1:C:276:VAL:H	2.06	0.42
1:C:277:LYS:C	1:C:278:VAL:HG23	2.44	0.42
1:D:67:LYS:CB	1:D:117:MET:HE2	2.45	0.42
1:D:137:PHE:O	1:D:138:ALA:C	2.63	0.42
1:D:170:SER:HB3	1:D:173:GLN:HB3	2.01	0.42
1:E:75:ALA:O	1:E:76:CYS:O	2.37	0.42
1:F:158:PRO:O	1:F:158:PRO:HG2	2.20	0.42
1:F:209:LYS:O	1:F:212:ALA:HB3	2.19	0.42
1:G:44:LEU:HD23	1:G:275:ASN:OD1	2.19	0.42
1:G:48:ILE:HD13	1:G:48:ILE:N	2.34	0.42
1:H:67:LYS:HG3	1:H:117:MET:HE3	2.01	0.42
1:H:265:CYS:HA	1:H:268:ILE:CD1	2.48	0.42
1:H:276:VAL:HG23	1:H:276:VAL:O	2.19	0.42
1:I:39:PHE:O	1:I:54:GLU:OE2	2.38	0.42
1:I:44:LEU:HD13	1:I:48:ILE:HG21	2.01	0.42
1:I:98:PRO:O	1:I:99:VAL:CB	2.67	0.42
1:I:224:PHE:HB3	1:I:225:LYS:HD2	2.00	0.42
1:J:41:TRP:HE3	1:J:277:LYS:HE2	1.84	0.42
1:J:174:VAL:C	1:J:176:ASN:N	2.73	0.42
1:K:130:THR:C	1:K:132:PRO:HD2	2.44	0.42
1:K:164:ASN:O	1:L:189:GLU:HA	2.19	0.42
1:K:213:GLN:HG2	1:L:208:ASP:OD1	2.19	0.42
1:K:225:LYS:O	1:K:226:LEU:C	2.62	0.42
1:L:66:TYR:HB2	1:L:104:PHE:CE2	2.54	0.42
1:L:66:TYR:CD2	1:L:104:PHE:CD1	3.07	0.42
1:A:110:ARG:HE	1:A:111:ASP:H	1.68	0.42
1:C:254:GLY:C	1:C:256:VAL:N	2.75	0.42
1:D:49:ASN:HA	1:D:50:PRO:HD2	1.56	0.42
1:D:169:LEU:CD1	1:D:187:ALA:O	2.68	0.42
1:E:65:PHE:O	1:E:117:MET:HE3	2.20	0.42
1:E:253:SER:HA	1:E:256:VAL:HG23	2.01	0.42
1:F:35:ALA:O	1:F:38:LEU:CD2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:48:ILE:HG22	1:F:74:ILE:CA	2.49	0.42
1:F:62:TYR:CD1	1:F:62:TYR:N	2.87	0.42
1:F:172:LYS:HD2	1:F:172:LYS:HA	1.77	0.42
1:G:41:TRP:O	1:G:277:LYS:CG	2.67	0.42
1:G:56:SER:O	1:G:57:ILE:HG13	2.20	0.42
1:H:87:TYR:CE1	1:I:49:ASN:HB2	2.54	0.42
1:H:117:MET:SD	1:H:117:MET:C	3.03	0.42
1:J:87:TYR:CD1	1:K:49:ASN:HB3	2.54	0.42
1:J:89:GLN:HG3	1:J:90:ALA:N	2.24	0.42
1:L:213:GLN:O	1:L:216:ALA:HB3	2.18	0.42
1:B:248:GLU:OE2	1:C:226:LEU:HG	2.20	0.42
1:C:48:ILE:CD1	1:C:65:PHE:CE1	3.03	0.42
1:C:172:LYS:O	1:C:176:ASN:OD1	2.36	0.42
1:D:42:GLU:CB	1:D:277:LYS:CD	2.95	0.42
1:D:104:PHE:HA	1:D:105:LYS:NZ	2.34	0.42
1:D:107:TYR:HA	1:D:267:LYS:HD3	2.01	0.42
1:E:82:GLY:O	1:E:83:GLN:C	2.63	0.42
1:F:269:ASN:ND2	1:F:274:LEU:O	2.53	0.42
1:G:16:GLN:NE2	1:G:16:GLN:CA	2.83	0.42
1:G:66:TYR:CD1	1:G:104:PHE:CD2	3.07	0.42
1:H:23:TRP:O	1:H:24:PHE:C	2.63	0.42
1:H:93:PHE:HB2	1:H:106:LEU:CD2	2.35	0.42
1:H:164:ASN:CG	1:I:191:LEU:O	2.62	0.42
1:H:225:LYS:O	1:H:226:LEU:HB3	2.19	0.42
1:I:247:ASP:O	1:I:251:ASP:HB2	2.20	0.42
1:I:273:GLY:O	1:I:274:LEU:CG	2.64	0.42
1:J:186:PHE:CD2	1:J:196:ILE:HD11	2.54	0.42
1:J:283:ASP:C	1:J:284:ILE:HG13	2.43	0.42
1:K:41:TRP:HB3	1:K:277:LYS:HZ2	1.84	0.42
1:K:164:ASN:OD1	1:L:191:LEU:O	2.37	0.42
1:L:117:MET:HG2	1:L:271:LEU:HD23	1.98	0.42
1:A:43:ASN:HD21	1:A:276:VAL:HG12	1.84	0.42
1:A:196:ILE:HG22	1:L:199:PHE:CE2	2.54	0.42
1:B:47:THR:CG2	1:B:73:TYR:HB2	2.49	0.42
1:C:53:LEU:HD11	1:C:121:ILE:CD1	2.46	0.42
1:D:259:LYS:O	1:D:260:SER:C	2.63	0.42
1:E:162:ARG:NH1	1:E:197:GLU:OE1	2.53	0.42
1:F:93:PHE:HB3	1:F:104:PHE:CZ	2.55	0.42
1:F:107:TYR:HD1	1:F:267:LYS:HD3	1.85	0.42
1:G:16:GLN:HG3	1:G:20:ARG:CD	2.48	0.42
1:G:277:LYS:N	1:G:277:LYS:CD	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:262:GLU:HB3	1:H:278:VAL:HG12	2.02	0.42
1:H:283:ASP:OD2	1:H:284:ILE:HD12	2.19	0.42
1:I:35:ALA:O	1:I:38:LEU:HG	2.20	0.42
1:I:66:TYR:OH	1:I:69:PRO:HD3	2.20	0.42
1:I:113:LYS:O	1:I:114:GLU:HB3	2.20	0.42
1:I:227:GLN:O	1:I:228:THR:C	2.63	0.42
1:J:12:ILE:O	1:J:13:ASN:ND2	2.53	0.42
1:J:145:LYS:HD2	1:J:145:LYS:O	2.20	0.42
1:J:251:ASP:C	1:J:253:SER:N	2.77	0.42
1:K:68:ASP:O	1:K:70:VAL:N	2.53	0.42
1:K:92:VAL:HG13	1:K:93:PHE:O	2.19	0.42
1:K:97:SER:OG	1:K:98:PRO:HD2	2.19	0.42
1:K:107:TYR:CD2	1:K:107:TYR:N	2.87	0.42
1:K:192:ASP:O	1:K:194:ASP:N	2.53	0.42
1:K:255:THR:O	1:K:259:LYS:HB2	2.20	0.42
1:L:66:TYR:CD1	1:L:117:MET:SD	3.12	0.42
1:B:125:ASP:O	1:B:126:MET:CB	2.63	0.42
1:B:158:PRO:O	1:B:159:VAL:HG23	2.19	0.42
1:C:252:SER:C	1:C:254:GLY:N	2.72	0.42
1:D:89:GLN:HG2	1:D:90:ALA:O	2.18	0.42
1:D:168:GLN:OE1	1:D:169:LEU:HG	2.19	0.42
1:F:224:PHE:CD2	1:F:225:LYS:NZ	2.88	0.42
1:F:265:CYS:HB2	1:F:275:ASN:O	2.20	0.42
1:G:150:VAL:HG21	1:H:156:LYS:HG2	2.02	0.42
1:G:177:GLN:O	1:G:178:TYR:C	2.63	0.42
1:H:28:LEU:C	1:H:28:LEU:HD22	2.45	0.42
1:H:64:GLY:C	1:H:65:PHE:CG	2.98	0.42
1:H:166:ASN:O	1:H:168:GLN:N	2.53	0.42
1:I:188:HIS:HD2	1:I:190:ALA:HB3	1.85	0.42
1:K:14:GLU:C	1:K:16:GLN:N	2.76	0.42
1:K:45:PRO:HB3	1:K:73:TYR:CD1	2.55	0.42
1:K:66:TYR:CD1	1:K:104:PHE:CD1	3.08	0.42
1:K:221:MET:HA	1:K:221:MET:HE3	2.02	0.42
1:L:20:ARG:HD3	1:L:146:GLU:CG	2.50	0.42
1:A:171:LEU:O	1:A:172:LYS:HB3	2.20	0.42
1:B:62:TYR:HB3	1:B:63:VAL:H	1.26	0.42
1:B:188:HIS:C	1:B:188:HIS:HD1	2.26	0.42
1:B:259:LYS:O	1:B:260:SER:C	2.63	0.42
1:C:259:LYS:HG3	1:D:281:ARG:CZ	2.48	0.42
1:D:79:ALA:CB	1:D:94:ARG:CZ	2.97	0.42
1:E:258:LEU:CD2	1:E:262:GLU:CD	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:30:TYR:CD2	1:F:218:TRP:HH2	2.37	0.42
1:G:15:ILE:O	1:G:16:GLN:C	2.62	0.42
1:G:62:TYR:CE2	1:G:78:GLY:O	2.73	0.42
1:G:226:LEU:O	1:G:227:GLN:CG	2.67	0.42
1:H:115:GLU:C	1:H:115:GLU:OE1	2.63	0.42
1:H:275:ASN:HD22	1:H:275:ASN:HA	1.59	0.42
1:J:96:ALA:O	1:J:97:SER:CB	2.68	0.42
1:J:209:LYS:O	1:J:212:ALA:HB3	2.19	0.42
1:J:213:GLN:O	1:J:214:LYS:C	2.62	0.42
1:K:263:GLU:H	1:K:263:GLU:HG3	1.58	0.42
1:L:171:LEU:C	1:L:173:GLN:N	2.77	0.42
1:L:278:VAL:CG1	1:L:279:LYS:H	2.01	0.42
1:B:42:GLU:O	1:B:277:LYS:HG2	2.19	0.42
1:B:43:ASN:HB2	1:B:277:LYS:CE	2.50	0.42
1:B:179:GLU:OE2	1:L:11:SER:N	2.53	0.42
1:C:52:PHE:O	1:C:56:SER:N	2.49	0.42
1:D:89:GLN:CG	1:D:90:ALA:N	2.78	0.42
1:D:140:GLU:CB	1:D:217:VAL:HG11	2.50	0.42
1:D:178:TYR:HE1	1:E:181:ASN:ND2	2.17	0.42
1:D:258:LEU:HD21	1:D:262:GLU:CG	2.47	0.42
1:E:23:TRP:O	1:E:24:PHE:C	2.63	0.42
1:E:31:LEU:HD21	1:E:218:TRP:CZ3	2.55	0.42
1:E:84:ARG:NH1	1:E:90:ALA:CB	2.82	0.42
1:E:118:GLY:C	1:E:119:VAL:HG23	2.45	0.42
1:F:274:LEU:C	1:F:275:ASN:CG	2.87	0.42
1:F:277:LYS:O	1:F:278:VAL:HG23	2.19	0.42
1:G:20:ARG:HG2	1:G:146:GLU:CG	2.49	0.42
1:G:50:PRO:C	1:G:52:PHE:N	2.77	0.42
1:G:124:ASN:HD22	1:G:128:PHE:H	1.68	0.42
1:H:56:SER:O	1:H:57:ILE:C	2.63	0.42
1:H:187:ALA:O	1:H:188:HIS:HB2	2.20	0.42
1:I:45:PRO:C	1:I:47:THR:H	2.27	0.42
1:I:162:ARG:HA	1:J:186:PHE:O	2.20	0.42
1:I:248:GLU:O	1:I:252:SER:OG	2.33	0.42
1:I:274:LEU:HD13	1:I:275:ASN:HB3	1.99	0.42
1:J:84:ARG:HA	1:J:84:ARG:HD3	1.89	0.42
1:J:85:ASP:H	1:J:89:GLN:N	2.18	0.42
1:J:102:LYS:HG3	1:J:103:GLU:N	2.35	0.42
1:K:39:PHE:CE2	1:K:257:PHE:HB3	2.55	0.42
1:A:64:GLY:HA2	1:A:120:VAL:HA	2.02	0.41
1:B:62:TYR:O	1:B:121:ILE:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:66:TYR:CZ	1:C:68:ASP:HA	2.54	0.41
1:C:175:TYR:HB3	1:D:182:ALA:HB2	2.02	0.41
1:D:13:ASN:OD1	1:F:179:GLU:HA	2.19	0.41
1:E:38:LEU:HD21	1:E:227:GLN:NE2	2.34	0.41
1:G:255:THR:HG22	1:G:259:LYS:HB2	2.02	0.41
1:H:13:ASN:HA	1:H:16:GLN:CB	2.50	0.41
1:H:16:GLN:OE1	1:J:179:GLU:O	2.38	0.41
1:H:53:LEU:HG	1:H:65:PHE:CE2	2.51	0.41
1:H:86:VAL:HG23	1:H:87:TYR:H	1.85	0.41
1:H:117:MET:SD	1:H:118:GLY:N	2.93	0.41
1:H:269:ASN:HA	1:H:273:GLY:CA	2.49	0.41
1:K:74:ILE:HG13	1:K:75:ALA:N	2.33	0.41
1:L:278:VAL:CG1	1:L:279:LYS:N	2.70	0.41
1:A:40:GLU:HB2	1:A:281:ARG:CB	2.50	0.41
1:A:85:ASP:OD1	1:A:89:GLN:CB	2.55	0.41
1:A:193:SER:HB3	1:L:194:ASP:OD1	2.19	0.41
1:A:273:GLY:O	1:A:274:LEU:C	2.63	0.41
1:D:41:TRP:HB3	1:D:44:LEU:HG	2.02	0.41
1:D:172:LYS:HB2	1:E:185:ILE:CD1	2.43	0.41
1:E:28:LEU:HD23	1:E:28:LEU:C	2.44	0.41
1:E:62:TYR:HB3	1:E:63:VAL:H	1.49	0.41
1:E:62:TYR:CE2	1:E:79:ALA:HA	2.53	0.41
1:E:65:PHE:CG	1:E:268:ILE:HD11	2.54	0.41
1:G:80:LEU:O	1:G:94:ARG:NE	2.53	0.41
1:G:260:SER:O	1:G:264:ALA:HB3	2.19	0.41
1:H:41:TRP:O	1:H:42:GLU:CD	2.63	0.41
1:J:44:LEU:HA	1:J:45:PRO:HD2	1.92	0.41
1:J:171:LEU:C	1:J:173:GLN:N	2.78	0.41
1:J:201:THR:O	1:J:201:THR:CG2	2.60	0.41
1:J:265:CYS:SG	1:J:278:VAL:HG23	2.60	0.41
1:J:274:LEU:HD12	1:J:275:ASN:H	1.85	0.41
1:J:280:PHE:HB3	1:J:281:ARG:H	1.57	0.41
1:L:42:GLU:O	1:L:43:ASN:CB	2.55	0.41
1:L:275:ASN:OD1	1:L:275:ASN:O	2.37	0.41
1:A:66:TYR:HB2	1:A:104:PHE:CE2	2.51	0.41
1:A:67:LYS:HG3	1:A:73:TYR:CD2	2.55	0.41
1:A:152:GLN:HE22	1:L:144:LEU:HD11	1.85	0.41
1:B:97:SER:CB	1:B:98:PRO:CD	2.98	0.41
1:B:136:LEU:CD1	1:C:22:ARG:HD2	2.50	0.41
1:B:148:ILE:HG22	1:B:152:GLN:HE21	1.85	0.41
1:C:30:TYR:O	1:C:33:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:227:GLN:O	1:C:228:THR:O	2.38	0.41
1:D:154:ALA:HB1	1:D:203:ALA:CB	2.50	0.41
1:E:118:GLY:O	1:E:119:VAL:CG2	2.68	0.41
1:E:137:PHE:CD1	1:E:221:MET:SD	3.13	0.41
1:F:35:ALA:HA	1:F:38:LEU:HD21	2.02	0.41
1:F:91:THR:N	1:F:106:LEU:HD12	2.35	0.41
1:F:108:ASN:O	1:F:109:TYR:HB3	2.19	0.41
1:F:137:PHE:O	1:F:138:ALA:C	2.62	0.41
1:G:41:TRP:O	1:G:42:GLU:CB	2.65	0.41
1:G:260:SER:O	1:G:261:ARG:C	2.63	0.41
1:I:150:VAL:CG1	1:J:156:LYS:HG3	2.48	0.41
1:J:103:GLU:HG2	1:J:104:PHE:H	1.84	0.41
1:J:137:PHE:HE2	1:J:220:GLU:HB3	1.86	0.41
1:J:161:ILE:HG21	1:J:171:LEU:CD1	2.50	0.41
1:J:213:GLN:HG2	1:K:207:VAL:HG12	2.01	0.41
1:K:201:THR:O	1:K:201:THR:HG22	2.19	0.41
1:L:101:GLN:CD	1:L:101:GLN:C	2.89	0.41
1:A:156:LYS:O	1:A:157:THR:HG23	2.21	0.41
1:A:201:THR:HG21	1:C:183:PRO:HG3	2.03	0.41
1:A:248:GLU:O	1:A:249:GLN:CB	2.60	0.41
1:B:247:ASP:C	1:B:250:ILE:HG13	2.45	0.41
1:B:271:LEU:O	1:B:272:TYR:O	2.38	0.41
1:C:115:GLU:O	1:C:116:ASP:CB	2.68	0.41
1:D:168:GLN:HB3	1:D:188:HIS:CE1	2.54	0.41
1:E:78:GLY:N	1:E:93:PHE:HE2	2.17	0.41
1:E:170:SER:C	1:E:171:LEU:O	2.63	0.41
1:E:275:ASN:HD22	1:E:275:ASN:HA	1.64	0.41
1:E:280:PHE:O	1:E:282:TYR:N	2.53	0.41
1:F:48:ILE:HG12	1:F:65:PHE:CZ	2.55	0.41
1:F:103:GLU:O	1:F:104:PHE:HB3	2.20	0.41
1:F:201:THR:CG2	1:H:183:PRO:HG3	2.50	0.41
1:F:221:MET:HE2	1:F:225:LYS:CE	2.39	0.41
1:H:123:ASN:ND2	1:H:257:PHE:CD2	2.88	0.41
1:H:178:TYR:O	1:H:179:GLU:C	2.62	0.41
1:H:262:GLU:OE2	1:H:278:VAL:CG1	2.69	0.41
1:I:159:VAL:HA	1:I:199:PHE:O	2.20	0.41
1:I:277:LYS:HB3	1:I:277:LYS:HE2	1.80	0.41
1:J:128:PHE:HA	1:J:129:PRO:HD3	1.77	0.41
1:J:173:GLN:OE1	1:J:176:ASN:ND2	2.53	0.41
1:K:148:ILE:HG23	1:K:207:VAL:HG13	2.02	0.41
1:A:280:PHE:O	1:A:281:ARG:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:105:LYS:NZ	1:B:114:GLU:OE1	2.53	0.41
1:B:109:TYR:HB3	1:B:110:ARG:H	1.65	0.41
1:B:167:ASN:HB3	1:B:188:HIS:CD2	2.55	0.41
1:C:42:GLU:CG	1:C:279:LYS:HZ3	2.33	0.41
1:C:159:VAL:HG13	1:C:198:VAL:CG1	2.50	0.41
1:C:207:VAL:O	1:C:207:VAL:HG12	2.20	0.41
1:C:275:ASN:C	1:C:277:LYS:HD3	2.45	0.41
1:D:227:GLN:O	1:D:228:THR:O	2.38	0.41
1:D:260:SER:HG	1:D:261:ARG:H	1.69	0.41
1:D:269:ASN:N	1:D:269:ASN:HD22	2.17	0.41
1:F:40:GLU:O	1:F:41:TRP:C	2.62	0.41
1:F:101:GLN:CD	1:F:101:GLN:N	2.78	0.41
1:F:261:ARG:O	1:F:264:ALA:HB3	2.20	0.41
1:G:16:GLN:O	1:G:19:LYS:N	2.54	0.41
1:H:49:ASN:O	1:H:49:ASN:CG	2.62	0.41
1:H:108:ASN:ND2	1:H:271:LEU:CD1	2.83	0.41
1:H:223:THR:C	1:H:225:LYS:N	2.78	0.41
1:J:19:LYS:O	1:J:20:ARG:C	2.63	0.41
1:J:34:LEU:HD22	1:J:225:LYS:NZ	2.35	0.41
1:J:192:ASP:O	1:J:194:ASP:N	2.51	0.41
1:K:109:TYR:HD2	1:K:112:MET:HB2	1.79	0.41
1:L:205:TYR:CD2	1:L:205:TYR:C	2.99	0.41
1:A:282:TYR:CE2	1:L:248:GLU:HG2	2.55	0.41
1:D:107:TYR:CA	1:D:267:LYS:HD3	2.50	0.41
1:D:284:ILE:O	1:D:285:VAL:HG22	2.21	0.41
1:E:39:PHE:CG	1:E:261:ARG:NH1	2.83	0.41
1:E:116:ASP:O	1:E:117:MET:O	2.38	0.41
1:E:151:ASN:O	1:E:152:GLN:C	2.64	0.41
1:E:179:GLU:HG3	1:E:180:GLY:H	1.85	0.41
1:F:23:TRP:O	1:F:26:HIS:HB3	2.20	0.41
1:F:177:GLN:C	1:F:179:GLU:N	2.76	0.41
1:G:80:LEU:O	1:G:81:SER:HB3	2.21	0.41
1:G:85:ASP:HB3	1:G:89:GLN:CA	2.50	0.41
1:G:109:TYR:CB	1:G:112:MET:HB2	2.45	0.41
1:G:139:ALA:C	1:G:141:LEU:N	2.77	0.41
1:H:92:VAL:CG1	1:H:93:PHE:N	2.82	0.41
1:H:114:GLU:HB3	1:H:115:GLU:H	1.59	0.41
1:I:152:GLN:O	1:I:155:GLN:HG2	2.20	0.41
1:I:262:GLU:OE2	1:I:278:VAL:CG2	2.69	0.41
1:J:67:LYS:NZ	1:J:272:TYR:CE2	2.74	0.41
1:J:275:ASN:C	1:J:277:LYS:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:48:ILE:CD1	1:K:73:TYR:HB3	2.48	0.41
1:K:68:ASP:HB3	1:K:71:ILE:HB	2.03	0.41
1:L:19:LYS:C	1:L:21:ASN:N	2.78	0.41
1:L:226:LEU:O	1:L:227:GLN:CG	2.68	0.41
1:A:128:PHE:HA	1:A:129:PRO:HD3	1.96	0.41
1:A:282:TYR:CD2	1:L:248:GLU:HG2	2.56	0.41
1:B:32:GLN:HB3	1:B:36:TYR:CE2	2.56	0.41
1:B:108:ASN:HB3	1:B:271:LEU:CD1	2.51	0.41
1:B:177:GLN:CG	1:B:178:TYR:N	2.84	0.41
1:C:109:TYR:HE1	1:D:47:THR:CG2	2.34	0.41
1:C:124:ASN:ND2	1:C:126:MET:O	2.53	0.41
1:C:124:ASN:ND2	1:C:128:PHE:HB2	2.29	0.41
1:C:175:TYR:C	1:C:177:GLN:N	2.77	0.41
1:C:274:LEU:CD2	1:C:276:VAL:HG23	2.51	0.41
1:D:46:PRO:C	1:D:48:ILE:H	2.29	0.41
1:D:276:VAL:C	1:D:277:LYS:HG3	2.43	0.41
1:E:37:GLN:HG2	1:E:281:ARG:HD2	2.03	0.41
1:E:84:ARG:HD2	1:E:90:ALA:HA	2.02	0.41
1:F:67:LYS:HD3	1:F:73:TYR:OH	2.20	0.41
1:F:87:TYR:HA	1:G:52:PHE:HE1	1.86	0.41
1:F:280:PHE:O	1:F:281:ARG:C	2.61	0.41
1:G:130:THR:HG22	1:G:134:LEU:HG	2.02	0.41
1:G:171:LEU:C	1:G:173:GLN:N	2.78	0.41
1:G:213:GLN:HG2	1:H:208:ASP:CG	2.45	0.41
1:H:68:ASP:OD2	1:H:68:ASP:C	2.63	0.41
1:H:83:GLN:O	1:H:91:THR:OG1	2.26	0.41
1:J:64:GLY:O	1:J:75:ALA:HA	2.21	0.41
1:K:107:TYR:N	1:K:107:TYR:HD2	2.19	0.41
1:K:161:ILE:HG21	1:K:171:LEU:HD11	2.02	0.41
1:A:108:ASN:O	1:A:109:TYR:C	2.64	0.41
1:A:221:MET:HE3	1:A:224:PHE:HB3	2.02	0.41
1:B:35:ALA:C	1:B:37:GLN:H	2.29	0.41
1:C:42:GLU:HG3	1:C:279:LYS:HZ1	1.84	0.41
1:C:213:GLN:O	1:C:216:ALA:HB3	2.21	0.41
1:D:81:SER:O	1:D:90:ALA:HB1	2.21	0.41
1:D:108:ASN:HB2	1:D:112:MET:O	2.20	0.41
1:D:120:VAL:CG2	1:D:122:TYR:CE1	3.01	0.41
1:D:165:ASP:C	1:D:167:ASN:H	2.29	0.41
1:E:80:LEU:HD22	1:E:90:ALA:CB	2.45	0.41
1:G:62:TYR:HE2	1:G:78:GLY:O	2.03	0.41
1:G:86:VAL:CG1	1:G:87:TYR:H	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:137:PHE:O	1:G:141:LEU:HG	2.20	0.41
1:G:275:ASN:O	1:G:277:LYS:CE	2.69	0.41
1:H:49:ASN:OD1	1:H:49:ASN:O	2.39	0.41
1:H:223:THR:HG23	1:H:250:ILE:HD13	2.02	0.41
1:I:130:THR:O	1:I:134:LEU:HG	2.20	0.41
1:J:20:ARG:HG2	1:J:146:GLU:HG3	2.02	0.41
1:J:89:GLN:CD	1:J:91:THR:H	2.29	0.41
1:J:105:LYS:HD2	1:J:114:GLU:HB2	2.02	0.41
1:J:141:LEU:O	1:J:214:LYS:HE3	2.21	0.41
1:K:248:GLU:O	1:K:252:SER:CB	2.69	0.41
1:L:41:TRP:C	1:L:277:LYS:HE3	2.46	0.41
1:L:53:LEU:O	1:L:57:ILE:HG13	2.20	0.41
1:L:56:SER:CB	1:L:63:VAL:HG22	2.50	0.41
1:A:80:LEU:HD22	1:A:90:ALA:HB2	2.02	0.41
1:A:107:TYR:CZ	1:A:109:TYR:CE1	3.09	0.41
1:A:110:ARG:O	1:A:112:MET:N	2.53	0.41
1:B:89:GLN:OE1	1:B:91:THR:N	2.37	0.41
1:C:21:ASN:O	1:C:22:ARG:C	2.63	0.41
1:C:47:THR:HG21	1:C:72:SER:HB3	2.01	0.41
1:C:147:ILE:HD13	1:D:152:GLN:HB3	2.03	0.41
1:C:166:ASN:HD21	1:C:170:SER:HA	1.84	0.41
1:D:54:GLU:CD	1:D:261:ARG:HH12	2.29	0.41
1:D:109:TYR:C	1:D:111:ASP:N	2.78	0.41
1:D:172:LYS:HA	1:D:175:TYR:HB2	2.02	0.41
1:D:249:GLN:NE2	1:E:228:THR:HG23	2.36	0.41
1:D:263:GLU:O	1:D:266:GLU:N	2.54	0.41
1:D:274:LEU:N	1:D:274:LEU:HD12	2.36	0.41
1:D:283:ASP:HB2	1:D:284:ILE:CD1	2.47	0.41
1:E:56:SER:O	1:E:59:GLN:O	2.39	0.41
1:E:62:TYR:HE2	1:E:79:ALA:CA	2.34	0.41
1:E:147:ILE:HG23	1:F:156:LYS:CG	2.51	0.41
1:F:45:PRO:HA	1:F:46:PRO:HD2	1.89	0.41
1:F:131:THR:N	1:F:132:PRO:HD2	2.36	0.41
1:F:144:LEU:O	1:F:148:ILE:HG13	2.21	0.41
1:F:201:THR:HG21	1:H:183:PRO:HG3	2.03	0.41
1:G:15:ILE:O	1:G:19:LYS:N	2.48	0.41
1:G:23:TRP:O	1:G:26:HIS:HB3	2.21	0.41
1:G:74:ILE:HD13	1:G:100:TYR:CZ	2.56	0.41
1:G:85:ASP:OD1	1:G:89:GLN:HB3	2.21	0.41
1:G:120:VAL:HG23	1:G:122:TYR:CE1	2.56	0.41
1:G:274:LEU:HG	1:G:275:ASN:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:15:ILE:O	1:H:16:GLN:C	2.64	0.41
1:H:177:GLN:C	1:H:179:GLU:H	2.29	0.41
1:H:248:GLU:O	1:H:252:SER:OG	2.29	0.41
1:I:49:ASN:HD22	1:I:52:PHE:H	1.69	0.41
1:I:108:ASN:OD1	1:I:117:MET:HB2	2.21	0.41
1:I:128:PHE:HA	1:I:129:PRO:HD3	1.95	0.41
1:I:151:ASN:O	1:I:152:GLN:C	2.63	0.41
1:J:87:TYR:CE1	1:K:49:ASN:HB3	2.56	0.41
1:J:144:LEU:CD2	1:K:152:GLN:HG2	2.49	0.41
1:K:45:PRO:C	1:K:47:THR:H	2.28	0.41
1:K:47:THR:HB	1:K:48:ILE:H	1.58	0.41
1:K:57:ILE:HD11	1:K:121:ILE:CG2	2.51	0.41
1:K:87:TYR:CD1	1:L:49:ASN:HB3	2.56	0.41
1:L:121:ILE:HD11	1:L:268:ILE:HD11	2.02	0.41
1:L:171:LEU:HD22	1:L:175:TYR:CD1	2.55	0.41
1:A:93:PHE:HB3	1:A:104:PHE:CB	2.50	0.41
1:A:284:ILE:HD12	1:A:284:ILE:HA	1.83	0.41
1:C:188:HIS:C	1:C:190:ALA:N	2.78	0.41
1:D:108:ASN:OD1	1:D:267:LYS:HG2	2.21	0.41
1:E:158:PRO:CB	1:E:200:LYS:NZ	2.79	0.41
1:E:258:LEU:HD23	1:E:258:LEU:C	2.45	0.41
1:F:82:GLY:O	1:F:83:GLN:O	2.39	0.41
1:F:115:GLU:C	1:F:117:MET:H	2.28	0.41
1:G:41:TRP:HE3	1:G:277:LYS:NZ	2.16	0.41
1:J:48:ILE:O	1:J:50:PRO:HD3	2.20	0.41
1:J:67:LYS:HE2	1:J:117:MET:CG	2.50	0.41
1:K:14:GLU:O	1:K:16:GLN:N	2.54	0.41
1:K:15:ILE:HA	1:K:18:GLN:HB2	2.02	0.41
1:K:16:GLN:O	1:K:17:ARG:C	2.64	0.41
1:L:78:GLY:N	1:L:93:PHE:HE2	2.18	0.41
1:L:225:LYS:O	1:L:226:LEU:O	2.39	0.41
1:A:261:ARG:C	1:A:278:VAL:HG11	2.45	0.40
1:B:250:ILE:HG13	1:B:250:ILE:H	1.72	0.40
1:C:12:ILE:O	1:C:16:GLN:HB2	2.21	0.40
1:C:60:PHE:O	1:C:61:GLY:C	2.63	0.40
1:C:109:TYR:HE1	1:D:47:THR:O	2.03	0.40
1:C:147:ILE:HG12	1:D:156:LYS:HD2	2.03	0.40
1:C:222:MET:HB3	1:C:227:GLN:HB3	2.00	0.40
1:D:113:LYS:HD2	1:D:271:LEU:CD2	2.51	0.40
1:D:164:ASN:C	1:D:165:ASP:OD2	2.64	0.40
1:D:169:LEU:CD1	1:D:188:HIS:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:210:LEU:CD2	1:E:205:TYR:HE1	2.33	0.40
1:D:213:GLN:O	1:D:217:VAL:HG23	2.21	0.40
1:E:171:LEU:O	1:E:172:LYS:CB	2.69	0.40
1:F:32:GLN:O	1:F:33:SER:C	2.63	0.40
1:F:224:PHE:O	1:F:225:LYS:HB3	2.21	0.40
1:F:258:LEU:HD11	1:F:262:GLU:OE2	2.21	0.40
1:G:16:GLN:HE21	1:G:16:GLN:C	2.29	0.40
1:G:183:PRO:O	1:G:185:ILE:HG13	2.21	0.40
1:H:68:ASP:CB	1:H:74:ILE:HD13	2.49	0.40
1:H:134:LEU:O	1:H:135:GLU:C	2.63	0.40
1:I:23:TRP:O	1:I:24:PHE:C	2.64	0.40
1:I:62:TYR:CE2	1:I:79:ALA:HA	2.42	0.40
1:I:223:THR:C	1:I:225:LYS:N	2.79	0.40
1:J:169:LEU:HD13	1:J:186:PHE:CE1	2.55	0.40
1:A:21:ASN:O	1:A:22:ARG:C	2.63	0.40
1:A:109:TYR:CG	1:A:110:ARG:N	2.87	0.40
1:C:145:LYS:HD2	1:C:145:LYS:C	2.47	0.40
1:D:124:ASN:O	1:D:125:ASP:O	2.40	0.40
1:D:177:GLN:HE22	1:D:184:VAL:HG13	1.87	0.40
1:E:42:GLU:O	1:E:277:LYS:NZ	2.36	0.40
1:E:45:PRO:HG3	1:E:73:TYR:CD1	2.56	0.40
1:E:188:HIS:O	1:E:189:GLU:HB3	2.22	0.40
1:F:117:MET:HG3	1:F:118:GLY:H	1.75	0.40
1:G:85:ASP:OD1	1:G:89:GLN:OE1	2.39	0.40
1:G:269:ASN:O	1:G:270:GLU:C	2.62	0.40
1:H:21:ASN:O	1:H:22:ARG:C	2.63	0.40
1:H:43:ASN:C	1:H:277:LYS:NZ	2.79	0.40
1:I:39:PHE:HZ	1:I:257:PHE:HB2	1.81	0.40
1:I:106:LEU:CD2	1:I:120:VAL:HG23	2.45	0.40
1:I:188:HIS:O	1:I:189:GLU:HB3	2.20	0.40
1:J:169:LEU:HD13	1:J:186:PHE:CD1	2.56	0.40
1:J:248:GLU:HA	1:K:282:TYR:CE1	2.56	0.40
1:K:266:GLU:O	1:K:269:ASN:N	2.54	0.40
1:A:41:TRP:CZ3	1:A:278:VAL:HG22	2.57	0.40
1:A:113:LYS:HA	1:A:113:LYS:HD2	1.86	0.40
1:C:62:TYR:O	1:C:63:VAL:HB	2.21	0.40
1:D:66:TYR:HB2	1:D:104:PHE:CE1	2.56	0.40
1:D:68:ASP:HB3	1:D:71:ILE:HG12	2.03	0.40
1:D:150:VAL:HG21	1:E:156:LYS:HG2	2.04	0.40
1:E:21:ASN:C	1:E:23:TRP:N	2.77	0.40
1:E:59:GLN:O	1:E:60:PHE:CD1	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:113:LYS:O	1:E:114:GLU:HG2	2.21	0.40
1:E:134:LEU:O	1:E:138:ALA:N	2.45	0.40
1:F:222:MET:O	1:F:227:GLN:HG2	2.21	0.40
1:F:258:LEU:O	1:F:259:LYS:C	2.64	0.40
1:G:41:TRP:O	1:G:277:LYS:HG3	2.21	0.40
1:G:201:THR:HB	1:H:159:VAL:HG11	2.03	0.40
1:H:23:TRP:CG	1:H:145:LYS:HG2	2.56	0.40
1:H:65:PHE:CE2	1:H:75:ALA:CB	3.05	0.40
1:I:85:ASP:OD1	1:I:85:ASP:N	2.54	0.40
1:I:131:THR:O	1:I:132:PRO:C	2.63	0.40
1:I:144:LEU:HD13	1:I:214:LYS:HA	2.04	0.40
1:I:170:SER:O	1:I:171:LEU:C	2.63	0.40
1:I:213:GLN:HG3	1:J:207:VAL:HG11	2.03	0.40
1:K:62:TYR:N	1:K:62:TYR:CD1	2.90	0.40
1:L:93:PHE:CD1	1:L:120:VAL:HG22	2.56	0.40
1:L:158:PRO:O	1:L:158:PRO:HG2	2.21	0.40
1:L:167:ASN:N	1:L:167:ASN:HD22	2.19	0.40
1:L:218:TRP:O	1:L:221:MET:HB3	2.21	0.40
1:A:114:GLU:O	1:A:114:GLU:CG	2.69	0.40
1:A:162:ARG:NH2	1:A:197:GLU:OE1	2.53	0.40
1:A:173:GLN:O	1:A:176:ASN:HB2	2.22	0.40
1:A:260:SER:HA	1:A:263:GLU:CD	2.46	0.40
1:A:271:LEU:O	1:A:272:TYR:CB	2.69	0.40
1:B:117:MET:HB2	1:B:271:LEU:CD1	2.36	0.40
1:C:177:GLN:CD	1:C:179:GLU:CG	2.95	0.40
1:D:105:LYS:HE2	1:D:116:ASP:HB3	2.04	0.40
1:D:107:TYR:HA	1:D:119:VAL:HG22	2.03	0.40
1:D:153:ASN:C	1:D:155:GLN:H	2.28	0.40
1:E:36:TYR:CG	1:E:55:LYS:HD3	2.57	0.40
1:E:42:GLU:OE2	1:E:279:LYS:HE3	2.21	0.40
1:E:175:TYR:C	1:E:177:GLN:N	2.72	0.40
1:F:277:LYS:O	1:F:278:VAL:C	2.65	0.40
1:G:40:GLU:CD	1:G:279:LYS:HZ1	2.29	0.40
1:G:175:TYR:O	1:G:178:TYR:HD2	2.03	0.40
1:G:249:GLN:HE22	1:H:218:TRP:NE1	2.20	0.40
1:H:13:ASN:ND2	1:J:179:GLU:HG2	2.24	0.40
1:H:203:ALA:O	1:H:204:PRO:C	2.64	0.40
1:J:41:TRP:CB	1:J:277:LYS:HB3	2.52	0.40
1:J:247:ASP:OD2	1:J:247:ASP:C	2.64	0.40
1:J:269:ASN:C	1:J:271:LEU:H	2.28	0.40
1:K:97:SER:OG	1:K:99:VAL:CG1	2.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:104:PHE:CD1	1:L:104:PHE:N	2.81	0.40
1:L:258:LEU:O	1:L:261:ARG:N	2.55	0.40
1:A:68:ASP:HB2	1:A:100:TYR:OH	2.21	0.40
1:A:163:ALA:C	1:A:165:ASP:H	2.30	0.40
1:A:281:ARG:HD3	1:L:255:THR:HG21	2.04	0.40
1:B:97:SER:CB	1:B:98:PRO:HD3	2.52	0.40
1:B:107:TYR:CD2	1:B:112:MET:SD	3.14	0.40
1:B:131:THR:O	1:B:132:PRO:C	2.62	0.40
1:C:171:LEU:C	1:C:173:GLN:N	2.59	0.40
1:D:227:GLN:OE1	1:D:227:GLN:HA	2.20	0.40
1:E:80:LEU:HB3	1:E:90:ALA:CB	2.51	0.40
1:E:100:TYR:CE2	1:E:102:LYS:HB2	2.56	0.40
1:F:284:ILE:CD1	1:F:284:ILE:H	2.34	0.40
1:H:48:ILE:HD13	1:H:65:PHE:CD2	2.57	0.40
1:H:274:LEU:HD22	1:H:274:LEU:N	2.36	0.40
1:L:280:PHE:C	1:L:282:TYR:H	2.30	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	253/309 (82%)	170 (67%)	48 (19%)	35 (14%)	0	1
1	B	253/309 (82%)	160 (63%)	49 (19%)	44 (17%)	0	0
1	C	253/309 (82%)	172 (68%)	45 (18%)	36 (14%)	0	1
1	D	253/309 (82%)	150 (59%)	60 (24%)	43 (17%)	0	0
1	E	253/309 (82%)	151 (60%)	50 (20%)	52 (21%)	0	0
1	F	253/309 (82%)	166 (66%)	47 (19%)	40 (16%)	0	0
1	G	253/309 (82%)	160 (63%)	53 (21%)	40 (16%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	253/309 (82%)	176 (70%)	41 (16%)	36 (14%)	0	1
1	I	253/309 (82%)	187 (74%)	34 (13%)	32 (13%)	0	1
1	J	253/309 (82%)	175 (69%)	39 (15%)	39 (15%)	0	0
1	K	253/309 (82%)	169 (67%)	46 (18%)	38 (15%)	0	1
1	L	253/309 (82%)	163 (64%)	46 (18%)	44 (17%)	0	0
All	All	3036/3708 (82%)	1999 (66%)	558 (18%)	479 (16%)	0	0

All (479) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	12	ILE
1	A	42	GLU
1	A	92	VAL
1	A	97	SER
1	A	105	LYS
1	A	109	TYR
1	A	110	ARG
1	A	111	ASP
1	A	117	MET
1	A	167	ASN
1	A	194	ASP
1	A	248	GLU
1	A	273	GLY
1	A	274	LEU
1	A	283	ASP
1	A	284	ILE
1	B	43	ASN
1	B	82	GLY
1	B	88	ASN
1	B	97	SER
1	B	99	VAL
1	B	107	TYR
1	B	117	MET
1	B	182	ALA
1	B	226	LEU
1	B	259	LYS
1	B	271	LEU
1	B	272	TYR
1	B	279	LYS
1	C	43	ASN

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Mol	Chain	Res	Type
1	C	63	VAL
1	C	99	VAL
1	C	110	ARG
1	C	111	ASP
1	C	117	MET
1	C	167	ASN
1	C	171	LEU
1	C	172	LYS
1	C	194	ASP
1	C	279	LYS
1	C	283	ASP
1	D	39	PHE
1	D	42	GLU
1	D	61	GLY
1	D	117	MET
1	D	126	MET
1	D	159	VAL
1	D	167	ASN
1	D	194	ASP
1	D	260	SER
1	D	261	ARG
1	D	263	GLU
1	D	274	LEU
1	D	275	ASN
1	D	279	LYS
1	D	284	ILE
1	E	61	GLY
1	E	72	SER
1	E	76	CYS
1	E	86	VAL
1	E	88	ASN
1	E	97	SER
1	E	99	VAL
1	E	102	LYS
1	E	111	ASP
1	E	117	MET
1	E	127	ALA
1	E	165	ASP
1	E	248	GLU
1	E	259	LYS
1	E	275	ASN
1	E	276	VAL

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Mol	Chain	Res	Type
1	F	43	ASN
1	F	51	SER
1	F	60	PHE
1	F	99	VAL
1	F	107	TYR
1	F	112	MET
1	F	171	LEU
1	F	178	TYR
1	F	226	LEU
1	F	278	VAL
1	G	12	ILE
1	G	50	PRO
1	G	88	ASN
1	G	91	THR
1	G	117	MET
1	G	167	ASN
1	G	178	TYR
1	G	189	GLU
1	G	274	LEU
1	G	275	ASN
1	G	278	VAL
1	G	279	LYS
1	H	61	GLY
1	H	97	SER
1	H	117	MET
1	H	167	ASN
1	H	178	TYR
1	H	189	GLU
1	H	209	LYS
1	H	284	ILE
1	I	14	GLU
1	I	43	ASN
1	I	59	GLN
1	I	85	ASP
1	I	95	ALA
1	I	97	SER
1	I	98	PRO
1	I	107	TYR
1	I	109	TYR
1	I	113	LYS
1	I	117	MET
1	I	172	LYS

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Mol	Chain	Res	Type
1	I	194	ASP
1	I	226	LEU
1	I	273	GLY
1	I	278	VAL
1	I	279	LYS
1	J	46	PRO
1	J	61	GLY
1	J	99	VAL
1	J	104	PHE
1	J	107	TYR
1	J	108	ASN
1	J	117	MET
1	J	167	ASN
1	J	171	LEU
1	J	178	TYR
1	J	194	ASP
1	J	248	GLU
1	J	272	TYR
1	J	280	PHE
1	J	284	ILE
1	K	14	GLU
1	K	43	ASN
1	K	60	PHE
1	K	72	SER
1	K	89	GLN
1	K	99	VAL
1	K	158	PRO
1	K	159	VAL
1	K	189	GLU
1	K	193	SER
1	K	194	ASP
1	K	226	LEU
1	K	274	LEU
1	K	278	VAL
1	K	283	ASP
1	L	43	ASN
1	L	60	PHE
1	L	70	VAL
1	L	83	GLN
1	L	109	TYR
1	L	114	GLU
1	L	117	MET

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Mol	Chain	Res	Type
1	L	166	ASN
1	L	178	TYR
1	L	179	GLU
1	L	194	ASP
1	L	226	LEU
1	L	248	GLU
1	L	249	GLN
1	L	272	TYR
1	L	278	VAL
1	L	283	ASP
1	A	41	TRP
1	A	89	GLN
1	A	227	GLN
1	A	249	GLN
1	A	275	ASN
1	B	13	ASN
1	B	26	HIS
1	B	61	GLY
1	B	62	TYR
1	B	124	ASN
1	B	127	ALA
1	B	152	GLN
1	B	159	VAL
1	B	172	LYS
1	B	178	TYR
1	B	189	GLU
1	B	190	ALA
1	B	270	GLU
1	C	16	GLN
1	C	62	TYR
1	C	116	ASP
1	C	129	PRO
1	C	159	VAL
1	C	193	SER
1	C	273	GLY
1	C	278	VAL
1	D	14	GLU
1	D	60	PHE
1	D	107	TYR
1	D	118	GLY
1	D	125	ASP
1	D	181	ASN

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Mol	Chain	Res	Type
1	D	189	GLU
1	D	264	ALA
1	D	265	CYS
1	E	39	PHE
1	E	60	PHE
1	E	68	ASP
1	E	94	ARG
1	E	96	ALA
1	E	101	GLN
1	E	124	ASN
1	E	159	VAL
1	E	188	HIS
1	E	225	LYS
1	E	226	LEU
1	E	249	GLN
1	E	258	LEU
1	E	260	SER
1	E	267	LYS
1	E	268	ILE
1	E	273	GLY
1	E	279	LYS
1	F	39	PHE
1	F	63	VAL
1	F	83	GLN
1	F	193	SER
1	F	224	PHE
1	F	225	LYS
1	F	260	SER
1	G	39	PHE
1	G	57	ILE
1	G	61	GLY
1	G	72	SER
1	G	89	GLN
1	G	108	ASN
1	G	188	HIS
1	G	272	TYR
1	G	281	ARG
1	H	42	GLU
1	H	51	SER
1	H	63	VAL
1	H	88	ASN
1	H	111	ASP

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Mol	Chain	Res	Type
1	H	181	ASN
1	H	188	HIS
1	H	259	LYS
1	H	275	ASN
1	H	278	VAL
1	H	279	LYS
1	I	73	TYR
1	I	125	ASP
1	I	154	ALA
1	I	227	GLN
1	J	13	ASN
1	J	51	SER
1	J	60	PHE
1	J	63	VAL
1	J	82	GLY
1	J	112	MET
1	J	114	GLU
1	J	225	LYS
1	J	249	GLN
1	J	279	LYS
1	K	48	ILE
1	K	61	GLY
1	K	63	VAL
1	K	107	TYR
1	K	116	ASP
1	K	124	ASN
1	K	271	LEU
1	K	279	LYS
1	K	284	ILE
1	L	26	HIS
1	L	39	PHE
1	L	61	GLY
1	L	62	TYR
1	L	63	VAL
1	L	71	ILE
1	L	99	VAL
1	L	102	LYS
1	L	125	ASP
1	L	202	ASP
1	L	266	GLU
1	L	274	LEU
1	L	277	LYS

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Mol	Chain	Res	Type
1	A	43	ASN
1	A	159	VAL
1	A	171	LEU
1	A	277	LYS
1	B	44	LEU
1	B	59	GLN
1	B	153	ASN
1	B	227	GLN
1	B	258	LEU
1	C	42	GLU
1	C	170	SER
1	C	178	TYR
1	C	255	THR
1	C	274	LEU
1	D	44	LEU
1	D	72	SER
1	D	84	ARG
1	D	158	PRO
1	D	193	SER
1	D	226	LEU
1	D	272	TYR
1	E	42	GLU
1	E	166	ASN
1	E	178	TYR
1	E	181	ASN
1	E	281	ARG
1	F	42	GLU
1	F	57	ILE
1	F	67	LYS
1	F	86	VAL
1	F	89	GLN
1	F	108	ASN
1	F	188	HIS
1	F	265	CYS
1	F	279	LYS
1	G	59	GLN
1	G	104	PHE
1	G	116	ASP
1	G	171	LEU
1	G	259	LYS
1	G	263	GLU
1	G	264	ALA

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Mol	Chain	Res	Type
1	H	62	TYR
1	H	94	ARG
1	H	96	ALA
1	H	99	VAL
1	H	109	TYR
1	H	159	VAL
1	H	171	LEU
1	H	172	LYS
1	H	224	PHE
1	H	270	GLU
1	I	46	PRO
1	I	63	VAL
1	I	99	VAL
1	I	189	GLU
1	I	272	TYR
1	I	277	LYS
1	J	39	PHE
1	J	62	TYR
1	J	88	ASN
1	J	193	SER
1	J	275	ASN
1	K	94	ARG
1	K	113	LYS
1	K	125	ASP
1	K	209	LYS
1	L	97	SER
1	L	159	VAL
1	L	279	LYS
1	A	44	LEU
1	A	226	LEU
1	A	272	TYR
1	B	126	MET
1	B	158	PRO
1	B	168	GLN
1	C	83	GLN
1	C	88	ASN
1	C	125	ASP
1	C	227	GLN
1	C	277	LYS
1	D	62	TYR
1	D	121	ILE
1	E	63	VAL

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Mol	Chain	Res	Type
1	E	171	LEU
1	E	195	SER
1	E	263	GLU
1	F	41	TRP
1	F	56	SER
1	F	109	TYR
1	F	159	VAL
1	F	194	ASP
1	G	101	GLN
1	G	159	VAL
1	G	194	ASP
1	H	125	ASP
1	H	127	ALA
1	I	159	VAL
1	I	193	SER
1	J	101	GLN
1	J	159	VAL
1	J	226	LEU
1	J	278	VAL
1	J	283	ASP
1	K	42	GLU
1	K	102	LYS
1	K	227	GLN
1	L	73	TYR
1	L	98	PRO
1	A	99	VAL
1	A	108	ASN
1	A	116	ASP
1	A	255	THR
1	B	39	PHE
1	B	63	VAL
1	B	98	PRO
1	B	108	ASN
1	C	182	ALA
1	C	276	VAL
1	D	26	HIS
1	D	97	SER
1	D	124	ASN
1	D	154	ALA
1	D	258	LEU
1	D	277	LYS
1	E	79	ALA

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Mol	Chain	Res	Type
1	E	107	TYR
1	E	193	SER
1	E	224	PHE
1	E	274	LEU
1	F	49	ASN
1	F	272	TYR
1	G	127	ALA
1	G	165	ASP
1	G	226	LEU
1	G	227	GLN
1	H	39	PHE
1	H	260	SER
1	I	284	ILE
1	J	53	LEU
1	J	97	SER
1	J	281	ARG
1	K	16	GLN
1	K	46	PRO
1	K	127	ALA
1	K	190	ALA
1	L	107	TYR
1	L	111	ASP
1	L	193	SER
1	L	204	PRO
1	L	225	LYS
1	L	265	CYS
1	A	80	LEU
1	A	278	VAL
1	B	260	SER
1	C	226	LEU
1	D	69	PRO
1	E	204	PRO
1	F	46	PRO
1	F	204	PRO
1	G	164	ASN
1	G	193	SER
1	H	226	LEU
1	H	250	ILE
1	I	72	SER
1	K	39	PHE
1	K	47	THR
1	L	68	ASP

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Mol	Chain	Res	Type
1	A	276	VAL
1	B	15	ILE
1	C	284	ILE
1	E	284	ILE
1	G	284	ILE
1	I	158	PRO
1	K	69	PRO
1	L	276	VAL
1	D	15	ILE
1	F	69	PRO
1	H	268	ILE
1	J	12	ILE
1	L	12	ILE
1	B	118	GLY
1	B	129	PRO
1	B	204	PRO
1	C	250	ILE
1	D	12	ILE
1	D	98	PRO
1	E	45	PRO
1	F	97	SER
1	F	158	PRO
1	G	158	PRO
1	C	131	THR
1	E	78	GLY
1	F	98	PRO
1	G	97	SER
1	B	278	VAL
1	F	82	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	230/278 (83%)	198 (86%)	32 (14%)	3	17
1	B	230/278 (83%)	199 (86%)	31 (14%)	4	19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	230/278 (83%)	199 (86%)	31 (14%)	4	19
1	D	230/278 (83%)	204 (89%)	26 (11%)	5	24
1	E	230/278 (83%)	200 (87%)	30 (13%)	4	20
1	F	230/278 (83%)	193 (84%)	37 (16%)	2	13
1	G	230/278 (83%)	200 (87%)	30 (13%)	4	20
1	H	230/278 (83%)	201 (87%)	29 (13%)	4	21
1	I	230/278 (83%)	200 (87%)	30 (13%)	4	20
1	J	230/278 (83%)	198 (86%)	32 (14%)	3	17
1	K	230/278 (83%)	199 (86%)	31 (14%)	4	19
1	L	230/278 (83%)	206 (90%)	24 (10%)	7	28
All	All	2760/3336 (83%)	2397 (87%)	363 (13%)	4	19

All (363) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	GLU
1	A	37	GLN
1	A	51	SER
1	A	53	LEU
1	A	56	SER
1	A	62	TYR
1	A	92	VAL
1	A	109	TYR
1	A	111	ASP
1	A	115	GLU
1	A	117	MET
1	A	119	VAL
1	A	124	ASN
1	A	131	THR
1	A	133	THR
1	A	143	GLU
1	A	146	GLU
1	A	149	SER
1	A	160	LEU
1	A	166	ASN
1	A	168	GLN
1	A	169	LEU
1	A	173	GLN

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Mol	Chain	Res	Type
1	A	178	TYR
1	A	194	ASP
1	A	213	GLN
1	A	259	LYS
1	A	261	ARG
1	A	274	LEU
1	A	276	VAL
1	A	277	LYS
1	A	279	LYS
1	B	13	ASN
1	B	28	LEU
1	B	37	GLN
1	B	42	GLU
1	B	60	PHE
1	B	63	VAL
1	B	88	ASN
1	B	89	GLN
1	B	91	THR
1	B	105	LYS
1	B	108	ASN
1	B	112	MET
1	B	125	ASP
1	B	160	LEU
1	B	168	GLN
1	B	178	TYR
1	B	179	GLU
1	B	193	SER
1	B	194	ASP
1	B	226	LEU
1	B	228	THR
1	B	247	ASP
1	B	248	GLU
1	B	249	GLN
1	B	250	ILE
1	B	258	LEU
1	B	272	TYR
1	B	274	LEU
1	B	277	LYS
1	B	279	LYS
1	B	280	PHE
1	C	20	ARG
1	C	28	LEU

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Mol	Chain	Res	Type
1	C	32	GLN
1	C	37	GLN
1	C	44	LEU
1	C	47	THR
1	C	74	ILE
1	C	81	SER
1	C	83	GLN
1	C	89	GLN
1	C	105	LYS
1	C	106	LEU
1	C	108	ASN
1	C	111	ASP
1	C	114	GLU
1	C	120	VAL
1	C	124	ASN
1	C	131	THR
1	C	144	LEU
1	C	146	GLU
1	C	149	SER
1	C	160	LEU
1	C	166	ASN
1	C	173	GLN
1	C	178	TYR
1	C	179	GLU
1	C	213	GLN
1	C	214	LYS
1	C	253	SER
1	C	271	LEU
1	C	277	LYS
1	D	28	LEU
1	D	37	GLN
1	D	38	LEU
1	D	74	ILE
1	D	83	GLN
1	D	84	ARG
1	D	85	ASP
1	D	91	THR
1	D	124	ASN
1	D	125	ASP
1	D	143	GLU
1	D	149	SER
1	D	151	ASN

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Mol	Chain	Res	Type
1	D	158	PRO
1	D	160	LEU
1	D	164	ASN
1	D	172	LYS
1	D	228	THR
1	D	251	ASP
1	D	255	THR
1	D	270	GLU
1	D	274	LEU
1	D	276	VAL
1	D	277	LYS
1	D	279	LYS
1	D	284	ILE
1	E	12	ILE
1	E	37	GLN
1	E	44	LEU
1	E	47	THR
1	E	49	ASN
1	E	63	VAL
1	E	92	VAL
1	E	97	SER
1	E	99	VAL
1	E	103	GLU
1	E	105	LYS
1	E	106	LEU
1	E	112	MET
1	E	115	GLU
1	E	140	GLU
1	E	160	LEU
1	E	173	GLN
1	E	176	ASN
1	E	178	TYR
1	E	202	ASP
1	E	213	GLN
1	E	219	ASN
1	E	225	LYS
1	E	251	ASP
1	E	259	LYS
1	E	261	ARG
1	E	275	ASN
1	E	277	LYS
1	E	280	PHE

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Mol	Chain	Res	Type
1	E	285	VAL
1	F	14	GLU
1	F	28	LEU
1	F	37	GLN
1	F	38	LEU
1	F	43	ASN
1	F	47	THR
1	F	60	PHE
1	F	62	TYR
1	F	63	VAL
1	F	71	ILE
1	F	83	GLN
1	F	101	GLN
1	F	107	TYR
1	F	111	ASP
1	F	112	MET
1	F	113	LYS
1	F	119	VAL
1	F	120	VAL
1	F	125	ASP
1	F	126	MET
1	F	133	THR
1	F	160	LEU
1	F	161	ILE
1	F	169	LEU
1	F	173	GLN
1	F	179	GLU
1	F	193	SER
1	F	225	LYS
1	F	226	LEU
1	F	251	ASP
1	F	268	ILE
1	F	275	ASN
1	F	276	VAL
1	F	277	LYS
1	F	278	VAL
1	F	279	LYS
1	F	284	ILE
1	G	21	ASN
1	G	37	GLN
1	G	47	THR
1	G	60	PHE

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Mol	Chain	Res	Type
1	G	80	LEU
1	G	84	ARG
1	G	85	ASP
1	G	89	GLN
1	G	94	ARG
1	G	102	LYS
1	G	105	LYS
1	G	116	ASP
1	G	133	THR
1	G	140	GLU
1	G	146	GLU
1	G	149	SER
1	G	151	ASN
1	G	160	LEU
1	G	165	ASP
1	G	171	LEU
1	G	179	GLU
1	G	208	ASP
1	G	209	LYS
1	G	226	LEU
1	G	269	ASN
1	G	272	TYR
1	G	275	ASN
1	G	277	LYS
1	G	279	LYS
1	G	283	ASP
1	H	12	ILE
1	H	28	LEU
1	H	37	GLN
1	H	43	ASN
1	H	47	THR
1	H	53	LEU
1	H	55	LYS
1	H	60	PHE
1	H	63	VAL
1	H	70	VAL
1	H	74	ILE
1	H	83	GLN
1	H	102	LYS
1	H	113	LYS
1	H	115	GLU
1	H	117	MET

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Mol	Chain	Res	Type
1	H	124	ASN
1	H	126	MET
1	H	145	LYS
1	H	146	GLU
1	H	165	ASP
1	H	172	LYS
1	H	173	GLN
1	H	178	TYR
1	H	248	GLU
1	H	249	GLN
1	H	275	ASN
1	H	278	VAL
1	H	279	LYS
1	I	12	ILE
1	I	15	ILE
1	I	37	GLN
1	I	47	THR
1	I	53	LEU
1	I	56	SER
1	I	60	PHE
1	I	98	PRO
1	I	101	GLN
1	I	107	TYR
1	I	108	ASN
1	I	109	TYR
1	I	140	GLU
1	I	146	GLU
1	I	160	LEU
1	I	164	ASN
1	I	168	GLN
1	I	173	GLN
1	I	178	TYR
1	I	192	ASP
1	I	213	GLN
1	I	225	LYS
1	I	228	THR
1	I	248	GLU
1	I	250	ILE
1	I	251	ASP
1	I	258	LEU
1	I	263	GLU
1	I	272	TYR

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Mol	Chain	Res	Type
1	I	274	LEU
1	J	28	LEU
1	J	32	GLN
1	J	37	GLN
1	J	44	LEU
1	J	60	PHE
1	J	77	ASN
1	J	85	ASP
1	J	89	GLN
1	J	97	SER
1	J	101	GLN
1	J	104	PHE
1	J	120	VAL
1	J	126	MET
1	J	131	THR
1	J	149	SER
1	J	160	LEU
1	J	169	LEU
1	J	173	GLN
1	J	194	ASP
1	J	196	ILE
1	J	202	ASP
1	J	213	GLN
1	J	215	ASN
1	J	226	LEU
1	J	250	ILE
1	J	251	ASP
1	J	260	SER
1	J	266	GLU
1	J	269	ASN
1	J	279	LYS
1	J	280	PHE
1	J	281	ARG
1	K	14	GLU
1	K	28	LEU
1	K	37	GLN
1	K	53	LEU
1	K	60	PHE
1	K	63	VAL
1	K	84	ARG
1	K	85	ASP
1	K	86	VAL

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Mol	Chain	Res	Type
1	K	92	VAL
1	K	107	TYR
1	K	108	ASN
1	K	115	GLU
1	K	125	ASP
1	K	131	THR
1	K	133	THR
1	K	135	GLU
1	K	158	PRO
1	K	160	LEU
1	K	169	LEU
1	K	173	GLN
1	K	191	LEU
1	K	196	ILE
1	K	214	LYS
1	K	228	THR
1	K	250	ILE
1	K	263	GLU
1	K	271	LEU
1	K	274	LEU
1	K	277	LYS
1	K	279	LYS
1	L	28	LEU
1	L	37	GLN
1	L	38	LEU
1	L	42	GLU
1	L	49	ASN
1	L	53	LEU
1	L	68	ASP
1	L	74	ILE
1	L	77	ASN
1	L	112	MET
1	L	123	ASN
1	L	160	LEU
1	L	171	LEU
1	L	173	GLN
1	L	177	GLN
1	L	178	TYR
1	L	179	GLU
1	L	202	ASP
1	L	213	GLN
1	L	249	GLN

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Mol	Chain	Res	Type
1	L	258	LEU
1	L	259	LYS
1	L	263	GLU
1	L	277	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (164) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	13	ASN
1	A	18	GLN
1	A	32	GLN
1	A	37	GLN
1	A	43	ASN
1	A	83	GLN
1	A	89	GLN
1	A	124	ASN
1	A	152	GLN
1	A	164	ASN
1	A	166	ASN
1	A	168	GLN
1	A	181	ASN
1	A	211	ASN
1	A	219	ASN
1	A	269	ASN
1	B	13	ASN
1	B	16	GLN
1	B	29	ASN
1	B	37	GLN
1	B	43	ASN
1	B	108	ASN
1	B	123	ASN
1	B	152	GLN
1	B	166	ASN
1	B	167	ASN
1	B	176	ASN
1	B	177	GLN
1	B	213	GLN
1	B	249	GLN
1	B	269	ASN
1	B	275	ASN
1	C	13	ASN
1	C	16	GLN

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Mol	Chain	Res	Type
1	C	18	GLN
1	C	32	GLN
1	C	37	GLN
1	C	49	ASN
1	C	83	GLN
1	C	108	ASN
1	C	123	ASN
1	C	152	GLN
1	C	166	ASN
1	C	167	ASN
1	C	219	ASN
1	D	16	GLN
1	D	18	GLN
1	D	29	ASN
1	D	32	GLN
1	D	37	GLN
1	D	59	GLN
1	D	83	GLN
1	D	108	ASN
1	D	124	ASN
1	D	164	ASN
1	D	177	GLN
1	D	213	GLN
1	D	249	GLN
1	E	16	GLN
1	E	37	GLN
1	E	108	ASN
1	E	164	ASN
1	E	177	GLN
1	E	181	ASN
1	E	249	GLN
1	E	269	ASN
1	E	275	ASN
1	F	13	ASN
1	F	18	GLN
1	F	32	GLN
1	F	37	GLN
1	F	49	ASN
1	F	59	GLN
1	F	101	GLN
1	F	108	ASN
1	F	123	ASN

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Mol	Chain	Res	Type
1	F	152	GLN
1	F	166	ASN
1	G	13	ASN
1	G	16	GLN
1	G	26	HIS
1	G	32	GLN
1	G	49	ASN
1	G	59	GLN
1	G	83	GLN
1	G	124	ASN
1	G	152	GLN
1	G	164	ASN
1	G	176	ASN
1	G	181	ASN
1	G	211	ASN
1	G	213	GLN
1	G	227	GLN
1	G	249	GLN
1	G	269	ASN
1	H	13	ASN
1	H	16	GLN
1	H	18	GLN
1	H	21	ASN
1	H	32	GLN
1	H	43	ASN
1	H	59	GLN
1	H	77	ASN
1	H	89	GLN
1	H	123	ASN
1	H	176	ASN
1	H	177	GLN
1	H	211	ASN
1	H	213	GLN
1	H	219	ASN
1	H	269	ASN
1	I	13	ASN
1	I	26	HIS
1	I	29	ASN
1	I	37	GLN
1	I	49	ASN
1	I	58	HIS
1	I	59	GLN

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Mol	Chain	Res	Type
1	I	77	ASN
1	I	89	GLN
1	I	101	GLN
1	I	123	ASN
1	I	124	ASN
1	I	164	ASN
1	I	176	ASN
1	I	211	ASN
1	I	269	ASN
1	J	16	GLN
1	J	32	GLN
1	J	37	GLN
1	J	49	ASN
1	J	77	ASN
1	J	89	GLN
1	J	101	GLN
1	J	123	ASN
1	J	153	ASN
1	J	164	ASN
1	J	177	GLN
1	J	227	GLN
1	K	32	GLN
1	K	37	GLN
1	K	43	ASN
1	K	59	GLN
1	K	83	GLN
1	K	124	ASN
1	K	164	ASN
1	K	168	GLN
1	K	173	GLN
1	K	213	GLN
1	K	219	ASN
1	K	269	ASN
1	K	275	ASN
1	L	16	GLN
1	L	18	GLN
1	L	29	ASN
1	L	32	GLN
1	L	37	GLN
1	L	59	GLN
1	L	77	ASN
1	L	88	ASN

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Mol	Chain	Res	Type
1	L	89	GLN
1	L	123	ASN
1	L	164	ASN
1	L	213	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 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	257/309 (83%)	0.47	21 (8%)	17 11	1, 7, 33, 38	0
1	B	257/309 (83%)	0.49	23 (8%)	15 10	1, 13, 32, 46	0
1	C	257/309 (83%)	0.42	17 (6%)	24 15	1, 13, 32, 39	0
1	D	257/309 (83%)	0.48	21 (8%)	17 11	1, 16, 35, 43	0
1	E	257/309 (83%)	0.54	24 (9%)	14 9	1, 21, 35, 42	0
1	F	257/309 (83%)	0.48	19 (7%)	20 13	1, 16, 35, 40	0
1	G	257/309 (83%)	0.44	13 (5%)	33 21	1, 14, 36, 51	0
1	H	257/309 (83%)	0.54	19 (7%)	20 13	1, 16, 34, 41	0
1	I	257/309 (83%)	0.41	16 (6%)	26 17	1, 9, 32, 43	0
1	J	257/309 (83%)	0.35	16 (6%)	26 17	1, 9, 30, 43	0
1	K	257/309 (83%)	0.52	20 (7%)	19 12	1, 13, 33, 47	0
1	L	257/309 (83%)	0.47	21 (8%)	17 11	1, 11, 32, 41	0
All	All	3084/3708 (83%)	0.47	230 (7%)	20 13	1, 13, 34, 51	0

All (230) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	283	ASP	8.6
1	I	13	ASN	6.8
1	L	283	ASP	5.2
1	K	61	GLY	4.9
1	D	12	ILE	4.8
1	H	273	GLY	4.7
1	G	12	ILE	4.6
1	A	275	ASN	4.5
1	J	109	TYR	4.5
1	B	108	ASN	4.4
1	F	112	MET	4.3

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Mol	Chain	Res	Type	RSRZ
1	H	283	ASP	4.3
1	H	65	PHE	4.2
1	E	284	ILE	4.2
1	H	109	TYR	4.2
1	C	208	ASP	4.1
1	A	277	LYS	4.0
1	J	272	TYR	4.0
1	J	108	ASN	4.0
1	I	283	ASP	4.0
1	C	275	ASN	4.0
1	F	179	GLU	4.0
1	I	111	ASP	3.9
1	L	61	GLY	3.9
1	D	16	GLN	3.9
1	E	168	GLN	3.9
1	C	16	GLN	3.8
1	A	208	ASP	3.8
1	G	277	LYS	3.7
1	B	179	GLU	3.7
1	G	179	GLU	3.7
1	H	11	SER	3.7
1	B	178	TYR	3.6
1	L	168	GLN	3.6
1	D	269	ASN	3.6
1	A	109	TYR	3.6
1	J	11	SER	3.6
1	D	283	ASP	3.5
1	H	12	ILE	3.5
1	C	285	VAL	3.5
1	D	176	ASN	3.4
1	K	177	GLN	3.4
1	I	208	ASP	3.4
1	J	111	ASP	3.4
1	D	276	VAL	3.4
1	A	272	TYR	3.4
1	K	276	VAL	3.3
1	J	277	LYS	3.3
1	D	208	ASP	3.3
1	A	173	GLN	3.3
1	A	219	ASN	3.3
1	H	110	ARG	3.2
1	I	164	ASN	3.2

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Mol	Chain	Res	Type	RSRZ
1	H	164	ASN	3.2
1	L	272	TYR	3.2
1	K	125	ASP	3.1
1	I	284	ILE	3.1
1	I	168	GLN	3.0
1	A	178	TYR	3.0
1	B	168	GLN	3.0
1	G	14	GLU	3.0
1	C	178	TYR	3.0
1	A	88	ASN	2.9
1	J	90	ALA	2.9
1	L	96	ALA	2.9
1	I	109	TYR	2.9
1	K	208	ASP	2.9
1	J	284	ILE	2.9
1	L	54	GLU	2.9
1	L	42	GLU	2.8
1	B	99	VAL	2.8
1	C	109	TYR	2.8
1	J	178	TYR	2.8
1	H	275	ASN	2.8
1	K	62	TYR	2.8
1	F	33	SER	2.8
1	D	124	ASN	2.8
1	E	109	TYR	2.8
1	K	89	GLN	2.8
1	B	283	ASP	2.7
1	B	12	ILE	2.7
1	L	123	ASN	2.7
1	B	89	GLN	2.7
1	D	47	THR	2.7
1	C	97	SER	2.7
1	L	260	SER	2.7
1	G	116	ASP	2.7
1	J	276	VAL	2.7
1	D	168	GLN	2.6
1	E	32	GLN	2.6
1	A	276	VAL	2.6
1	G	72	SER	2.6
1	F	25	ILE	2.6
1	L	13	ASN	2.6
1	I	54	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
1	K	54	GLU	2.6
1	E	163	ALA	2.6
1	K	178	TYR	2.6
1	A	111	ASP	2.6
1	G	111	ASP	2.6
1	A	167	ASN	2.6
1	B	278	VAL	2.6
1	A	12	ILE	2.6
1	B	109	TYR	2.6
1	C	62	TYR	2.6
1	C	272	TYR	2.6
1	I	117	MET	2.6
1	J	285	VAL	2.6
1	F	109	TYR	2.6
1	C	71	ILE	2.5
1	K	15	ILE	2.5
1	F	178	TYR	2.5
1	H	178	TYR	2.5
1	B	13	ASN	2.5
1	I	275	ASN	2.5
1	J	208	ASP	2.5
1	I	178	TYR	2.5
1	A	274	LEU	2.5
1	H	276	VAL	2.5
1	G	178	TYR	2.5
1	E	11	SER	2.5
1	C	194	ASP	2.5
1	D	13	ASN	2.5
1	F	275	ASN	2.5
1	K	16	GLN	2.5
1	E	270	GLU	2.4
1	A	165	ASP	2.4
1	E	45	PRO	2.4
1	E	118	GLY	2.4
1	D	115	GLU	2.4
1	B	43	ASN	2.4
1	K	108	ASN	2.4
1	C	61	GLY	2.4
1	C	168	GLN	2.4
1	E	57	ILE	2.4
1	J	173	GLN	2.4
1	B	285	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
1	K	107	TYR	2.4
1	B	96	ALA	2.4
1	F	96	ALA	2.4
1	H	84	ARG	2.4
1	L	130	THR	2.4
1	E	44	LEU	2.4
1	E	42	GLU	2.4
1	E	179	GLU	2.4
1	G	103	GLU	2.4
1	K	285	VAL	2.4
1	A	273	GLY	2.3
1	B	118	GLY	2.3
1	A	164	ASN	2.3
1	F	42	GLU	2.3
1	K	266	GLU	2.3
1	H	96	ALA	2.3
1	D	178	TYR	2.3
1	H	123	ASN	2.3
1	G	283	ASP	2.3
1	A	177	GLN	2.3
1	D	177	GLN	2.3
1	F	69	PRO	2.3
1	L	18	GLN	2.3
1	C	179	GLU	2.3
1	E	285	VAL	2.3
1	F	72	SER	2.3
1	K	272	TYR	2.3
1	L	62	TYR	2.3
1	F	167	ASN	2.3
1	L	269	ASN	2.3
1	F	194	ASP	2.3
1	G	168	GLN	2.3
1	H	111	ASP	2.3
1	K	85	ASP	2.3
1	J	79	ALA	2.3
1	H	72	SER	2.3
1	I	97	SER	2.3
1	J	176	ASN	2.3
1	F	283	ASP	2.3
1	G	54	GLU	2.2
1	K	115	GLU	2.2
1	A	90	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	E	84	ARG	2.2
1	L	176	ASN	2.2
1	E	15	ILE	2.2
1	F	12	ILE	2.2
1	B	260	SER	2.2
1	D	11	SER	2.2
1	L	173	GLN	2.2
1	D	275	ASN	2.2
1	G	269	ASN	2.2
1	A	179	GLU	2.2
1	D	96	ALA	2.2
1	B	251	ASP	2.2
1	F	208	ASP	2.2
1	L	109	TYR	2.2
1	E	56	SER	2.2
1	B	167	ASN	2.2
1	K	181	ASN	2.2
1	D	17	ARG	2.2
1	B	208	ASP	2.2
1	E	116	ASP	2.2
1	F	116	ASP	2.2
1	B	284	ILE	2.1
1	L	117	MET	2.1
1	C	118	GLY	2.1
1	L	275	ASN	2.1
1	I	12	ILE	2.1
1	B	226	LEU	2.1
1	I	276	VAL	2.1
1	E	112	MET	2.1
1	H	168	GLN	2.1
1	D	181	ASN	2.1
1	L	285	VAL	2.1
1	L	277	LYS	2.1
1	E	87	TYR	2.1
1	E	178	TYR	2.1
1	I	35	ALA	2.1
1	D	273	GLY	2.1
1	K	14	GLU	2.1
1	H	13	ASN	2.1
1	C	78	GLY	2.1
1	C	284	ILE	2.0
1	H	169	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
1	J	12	ILE	2.0
1	B	272	TYR	2.0
1	E	129	PRO	2.0
1	F	169	LEU	2.0
1	E	71	ILE	2.0
1	B	112	MET	2.0
1	E	99	VAL	2.0
1	F	63	VAL	2.0
1	D	284	ILE	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.