



Full wwPDB EM Validation Report ⓘ

Nov 10, 2025 – 03:23 PM EST

PDB ID : 9E8J / pdb_00009e8j
EMDB ID : EMD-47722
Title : Nub1/Fat10-processing human 26S proteasome bound to Txnl1 with Rpt1 at top of spiral staircase
Authors : Arkinson, C.; Gee, C.L.; Martin, A.
Deposited on : 2024-11-05
Resolution : 3.47 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

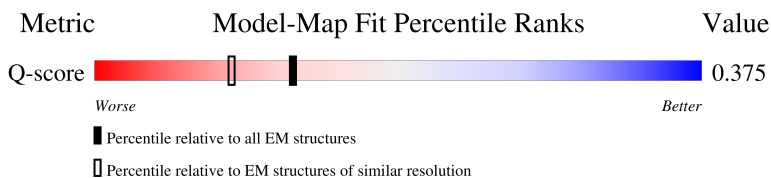
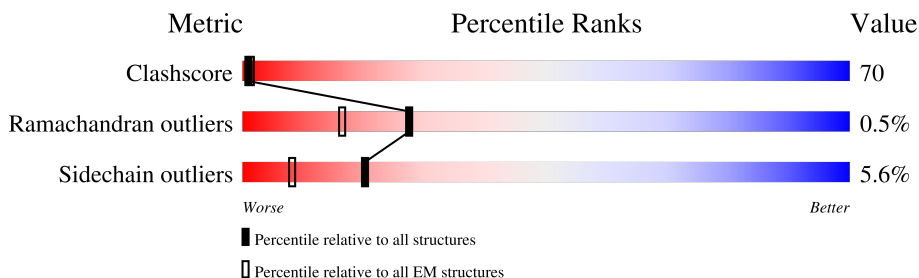
EMDB validation analysis : 0.0.1.dev129
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.46

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.47 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



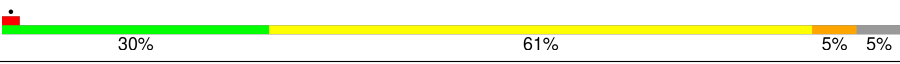
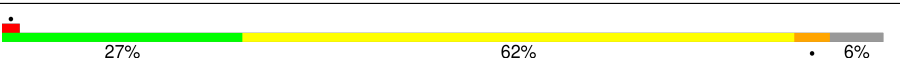
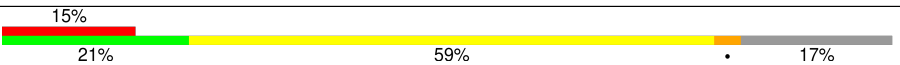
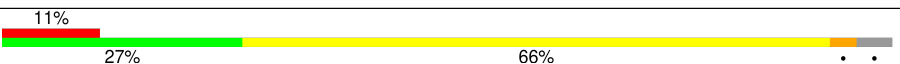
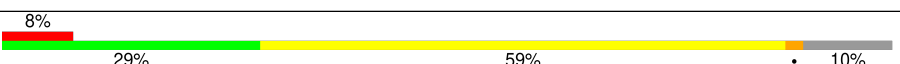
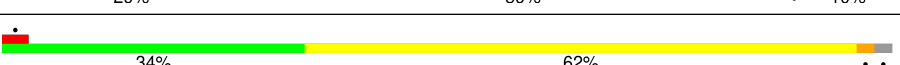
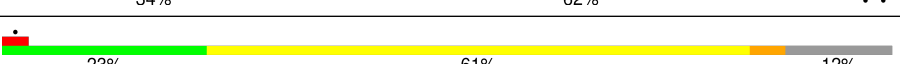
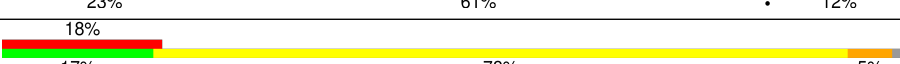
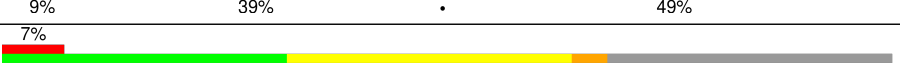
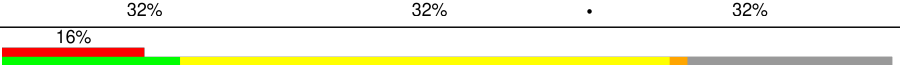
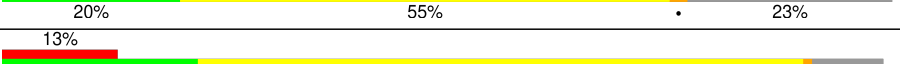
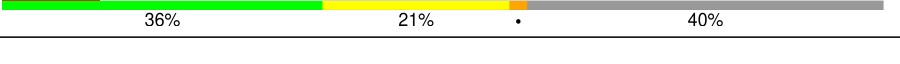
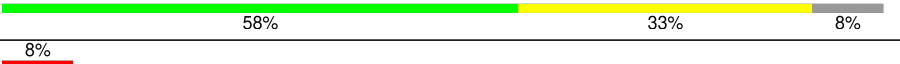
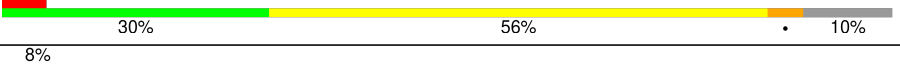
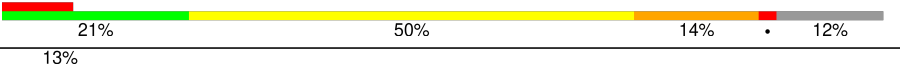
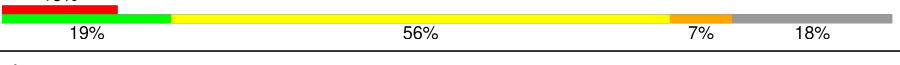
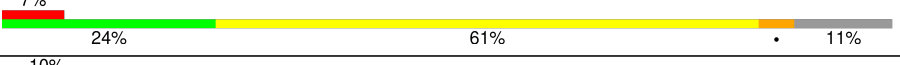
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	13733 (2.97 - 3.97)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	C	406	
2	D	418	
3	G	246	
4	H	234	

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Mol	Chain	Length	Quality of chain
5	I	261	
6	J	248	
7	L	263	
8	M	255	
9	V	534	
10	W	456	
11	X	422	
12	Y	389	
13	Z	324	
14	a	376	
15	b	377	
16	c	424	
17	d	350	
18	f	908	
19	g	601	
20	u	289	
21	v	12	
22	A	433	
23	B	440	
24	E	389	
25	F	439	
26	K	241	
27	U	953	
28	e	70	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
29	ATP	F	501	-	-	X	-

2 Entry composition

There are 32 unique types of molecules in this entry. The entry contains 70858 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called 26S protease regulatory subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	C	386	Total	C	N	O	S	0	0
			3051	1919	547	567	18		

- Molecule 2 is a protein called 26S proteasome regulatory subunit 6B.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	D	380	Total	C	N	O	S	0	0
			3040	1923	524	580	13		

- Molecule 3 is a protein called Proteasome subunit alpha type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	G	239	Total	C	N	O	S	0	0
			1820	1157	304	346	13		

- Molecule 4 is a protein called Proteasome subunit alpha type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	H	232	Total	C	N	O	S	0	0
			1813	1158	307	342	6		

- Molecule 5 is a protein called Proteasome subunit alpha type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	I	248	Total	C	N	O	S	0	0
			1895	1195	324	368	8		

- Molecule 6 is a protein called Proteasome subunit alpha type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	J	239	Total	C	N	O	S	0	0
			1733	1076	315	337	5		

- Molecule 7 is a protein called Proteasome subunit alpha type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	L	238	Total	C	N	O	S	0	0
			1850	1159	334	346	11		

- Molecule 8 is a protein called Proteasome subunit alpha type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	M	240	Total	C	N	O	S	0	0
			1856	1178	314	353	11		

- Molecule 9 is a protein called 26S proteasome non-ATPase regulatory subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	V	443	Total	C	N	O	S	0	0
			3608	2299	644	652	13		

- Molecule 10 is a protein called 26S proteasome non-ATPase regulatory subunit 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	W	438	Total	C	N	O	S	0	0
			3570	2261	609	677	23		

- Molecule 11 is a protein called 26S proteasome non-ATPase regulatory subunit 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	X	378	Total	C	N	O	S	0	0
			2994	1909	507	566	12		

- Molecule 12 is a protein called 26S proteasome non-ATPase regulatory subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Y	380	Total	C	N	O	S	0	0
			3127	1995	535	580	17		

- Molecule 13 is a protein called 26S proteasome non-ATPase regulatory subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	Z	286	Total	C	N	O	S	0	0
			2281	1457	392	427	5		

- Molecule 14 is a protein called 26S proteasome non-ATPase regulatory subunit 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	a	373	Total	C	N	O	S	0	0
			2995	1911	510	559	15		

- Molecule 15 is a protein called 26S proteasome non-ATPase regulatory subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	b	191	Total	C	N	O	S	0	0
			1458	910	261	279	8		

- Molecule 16 is a protein called 26S proteasome non-ATPase regulatory subunit 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	c	289	Total	C	N	O	S	0	0
			2269	1436	391	423	19		

There are 114 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
c	311	LEU	-	expression tag	UNP O00487
c	312	ILE	-	expression tag	UNP O00487
c	313	ASN	-	expression tag	UNP O00487
c	314	HIS	-	expression tag	UNP O00487
c	315	HIS	-	expression tag	UNP O00487
c	316	HIS	-	expression tag	UNP O00487
c	317	HIS	-	expression tag	UNP O00487
c	318	HIS	-	expression tag	UNP O00487
c	319	HIS	-	expression tag	UNP O00487
c	320	ASP	-	expression tag	UNP O00487
c	321	TYR	-	expression tag	UNP O00487
c	322	ASP	-	expression tag	UNP O00487
c	323	ILE	-	expression tag	UNP O00487
c	324	PRO	-	expression tag	UNP O00487
c	325	THR	-	expression tag	UNP O00487
c	326	THR	-	expression tag	UNP O00487
c	327	ALA	-	expression tag	UNP O00487
c	328	SER	-	expression tag	UNP O00487
c	329	GLU	-	expression tag	UNP O00487
c	330	ASN	-	expression tag	UNP O00487
c	331	LEU	-	expression tag	UNP O00487
c	332	TYR	-	expression tag	UNP O00487
c	333	PHE	-	expression tag	UNP O00487
c	334	GLN	-	expression tag	UNP O00487
c	335	GLY	-	expression tag	UNP O00487

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Chain	Residue	Modelled	Actual	Comment	Reference
c	336	GLU	-	expression tag	UNP O00487
c	337	LEU	-	expression tag	UNP O00487
c	338	GLY	-	expression tag	UNP O00487
c	339	MET	-	expression tag	UNP O00487
c	340	ARG	-	expression tag	UNP O00487
c	341	GLY	-	expression tag	UNP O00487
c	342	SER	-	expression tag	UNP O00487
c	343	ALA	-	expression tag	UNP O00487
c	344	GLY	-	expression tag	UNP O00487
c	345	LYS	-	expression tag	UNP O00487
c	346	ALA	-	expression tag	UNP O00487
c	347	GLY	-	expression tag	UNP O00487
c	348	GLU	-	expression tag	UNP O00487
c	349	GLY	-	expression tag	UNP O00487
c	350	GLU	-	expression tag	UNP O00487
c	351	ILE	-	expression tag	UNP O00487
c	352	PRO	-	expression tag	UNP O00487
c	353	ALA	-	expression tag	UNP O00487
c	354	PRO	-	expression tag	UNP O00487
c	355	LEU	-	expression tag	UNP O00487
c	356	ALA	-	expression tag	UNP O00487
c	357	GLY	-	expression tag	UNP O00487
c	358	THR	-	expression tag	UNP O00487
c	359	VAL	-	expression tag	UNP O00487
c	360	SER	-	expression tag	UNP O00487
c	361	LYS	-	expression tag	UNP O00487
c	362	ILE	-	expression tag	UNP O00487
c	363	LEU	-	expression tag	UNP O00487
c	364	VAL	-	expression tag	UNP O00487
c	365	LYS	-	expression tag	UNP O00487
c	366	GLU	-	expression tag	UNP O00487
c	367	GLY	-	expression tag	UNP O00487
c	368	ASP	-	expression tag	UNP O00487
c	369	THR	-	expression tag	UNP O00487
c	370	VAL	-	expression tag	UNP O00487
c	371	LYS	-	expression tag	UNP O00487
c	372	ALA	-	expression tag	UNP O00487
c	373	GLY	-	expression tag	UNP O00487
c	374	GLN	-	expression tag	UNP O00487
c	375	THR	-	expression tag	UNP O00487
c	376	VAL	-	expression tag	UNP O00487
c	377	LEU	-	expression tag	UNP O00487

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Chain	Residue	Modelled	Actual	Comment	Reference
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c	380	GLU	-	expression tag	UNP O00487
c	381	ALA	-	expression tag	UNP O00487
c	382	MET	-	expression tag	UNP O00487
c	383	LYS	-	expression tag	UNP O00487
c	384	MET	-	expression tag	UNP O00487
c	385	GLU	-	expression tag	UNP O00487
c	386	THR	-	expression tag	UNP O00487
c	387	GLU	-	expression tag	UNP O00487
c	388	ILE	-	expression tag	UNP O00487
c	389	ASN	-	expression tag	UNP O00487
c	390	ALA	-	expression tag	UNP O00487
c	391	PRO	-	expression tag	UNP O00487
c	392	THR	-	expression tag	UNP O00487
c	393	ASP	-	expression tag	UNP O00487
c	394	GLY	-	expression tag	UNP O00487
c	395	LYS	-	expression tag	UNP O00487
c	396	VAL	-	expression tag	UNP O00487
c	397	GLU	-	expression tag	UNP O00487
c	398	LYS	-	expression tag	UNP O00487
c	399	VAL	-	expression tag	UNP O00487
c	400	LEU	-	expression tag	UNP O00487
c	401	VAL	-	expression tag	UNP O00487
c	402	LYS	-	expression tag	UNP O00487
c	403	GLU	-	expression tag	UNP O00487
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c	410	GLY	-	expression tag	UNP O00487
c	411	GLN	-	expression tag	UNP O00487
c	412	GLY	-	expression tag	UNP O00487
c	413	LEU	-	expression tag	UNP O00487
c	414	ILE	-	expression tag	UNP O00487
c	415	LYS	-	expression tag	UNP O00487
c	416	ILE	-	expression tag	UNP O00487
c	417	GLY	-	expression tag	UNP O00487
c	418	VAL	-	expression tag	UNP O00487
c	419	HIS	-	expression tag	UNP O00487

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c	421	HIS	-	expression tag	UNP O00487
c	422	HIS	-	expression tag	UNP O00487
c	423	HIS	-	expression tag	UNP O00487
c	424	HIS	-	expression tag	UNP O00487

- Molecule 17 is a protein called 26S proteasome non-ATPase regulatory subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	d	269	Total	C	N	O	S	0	0
			2188	1414	359	406	9		

- Molecule 18 is a protein called 26S proteasome non-ATPase regulatory subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	f	832	Total	C	N	O	S	0	0
			6442	4076	1090	1231	45		

- Molecule 19 is a protein called Isoform 2 of NEDD8 ultimate buster 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	g	95	Total	C	N	O	S	0	0
			771	487	139	144	1		

- Molecule 20 is a protein called Thioredoxin-like protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	u	172	Total	C	N	O	S	0	0
			1376	865	226	276	9		

- Molecule 21 is a protein called substrate peptide.

Mol	Chain	Residues	Atoms				AltConf	Trace
21	v	11	Total	C	N	O	0	0
			55	33	11	11		

- Molecule 22 is a protein called 26S proteasome regulatory subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	A	407	Total	C	N	O	S	0	0
			3199	2015	561	605	18		

- Molecule 23 is a protein called 26S proteasome regulatory subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	B	396	Total	C	N	O	S	0	0
			3107	1957	529	606	15		

- Molecule 24 is a protein called 26S protease regulatory subunit 10B.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	E	343	Total	C	N	O	S	0	0
			2701	1699	477	509	16		

- Molecule 25 is a protein called 26S proteasome regulatory subunit 6A.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	F	359	Total	C	N	O	S	0	0
			2801	1768	485	532	16		

- Molecule 26 is a protein called Proteasome subunit alpha type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	K	228	Total	C	N	O	S	0	0
			1737	1092	286	349	10		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K	83	LYS	ALA	conflict	UNP P28066

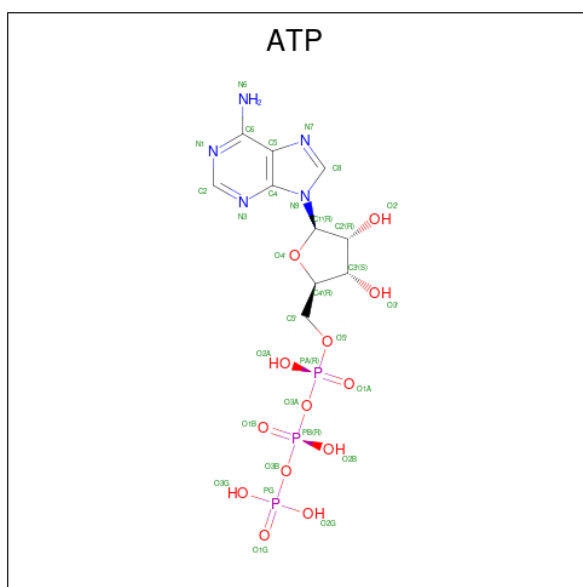
- Molecule 27 is a protein called 26S proteasome non-ATPase regulatory subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	U	844	Total	C	N	O	S	0	0
			6584	4178	1119	1243	44		

- Molecule 28 is a protein called 26S proteasome complex subunit SEM1.

Mol	Chain	Residues	Atoms				AltConf	Trace
28	e	41	Total	C	N	O	0	0
			353	217	55	81		

- Molecule 29 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃) (labeled as "Ligand of Interest" by depositor).

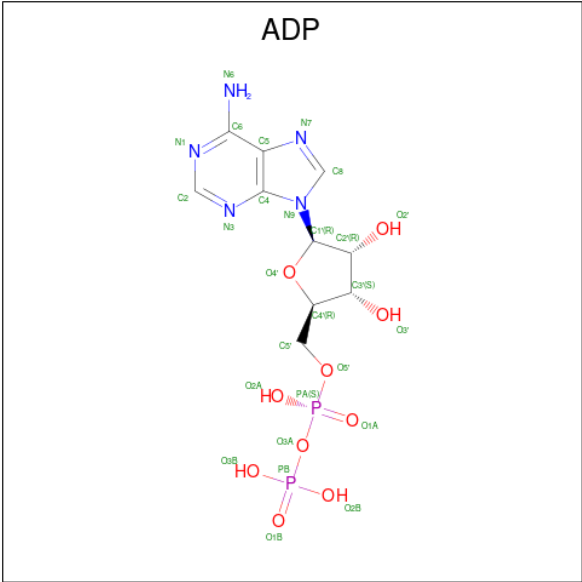


Mol	Chain	Residues	Atoms					AltConf
29	C	1	Total	C	N	O	P	0
			31	10	5	13	3	
29	A	1	Total	C	N	O	P	0
			31	10	5	13	3	
29	B	1	Total	C	N	O	P	0
			31	10	5	13	3	
29	F	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 30 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
30	C	1	Total	Mg	0
			1	1	
30	D	1	Total	Mg	0
			1	1	
30	A	1	Total	Mg	0
			1	1	
30	B	1	Total	Mg	0
			1	1	
30	F	1	Total	Mg	0
			1	1	

- Molecule 31 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
31	D	1	Total	C	N	O	P	0
			27	10	5	10	2	
31	E	1	Total	C	N	O	P	0
			27	10	5	10	2	

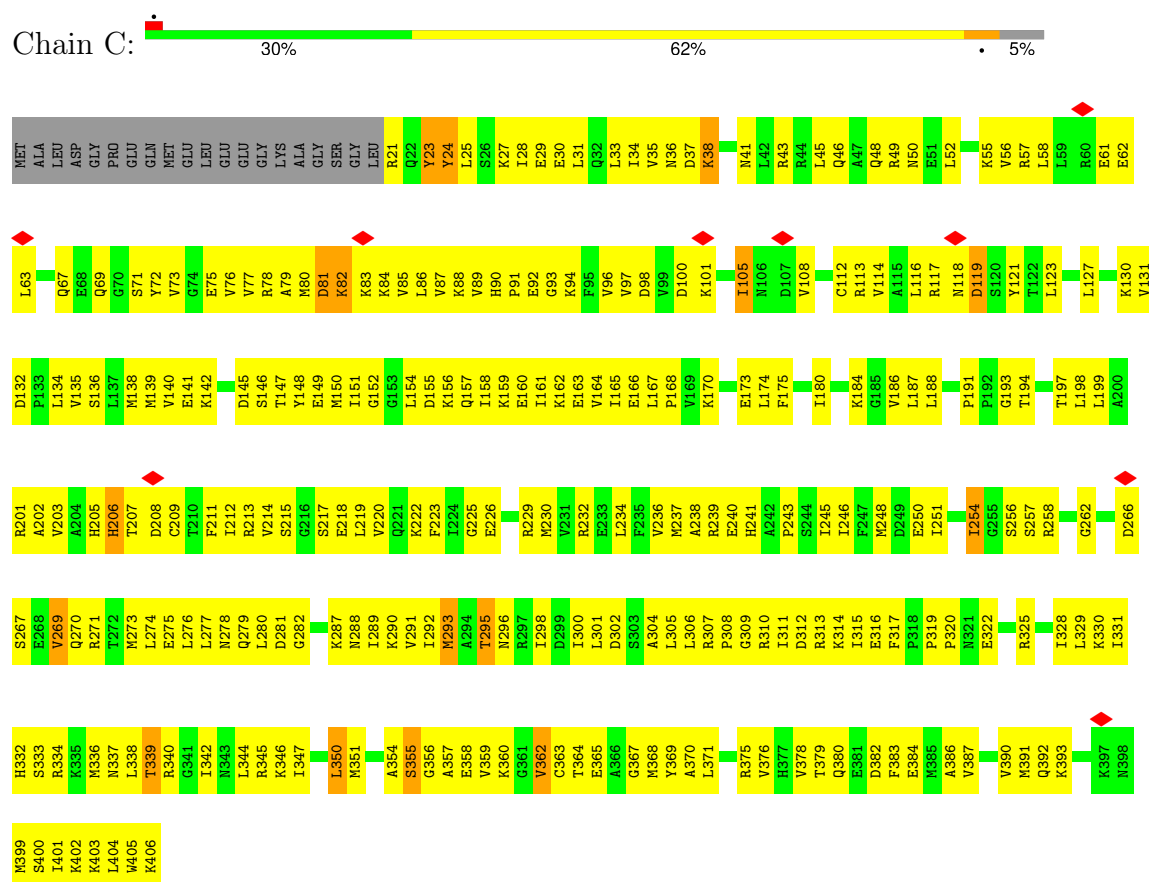
- Molecule 32 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
32	c	1	Total	Zn	0
			1	1	

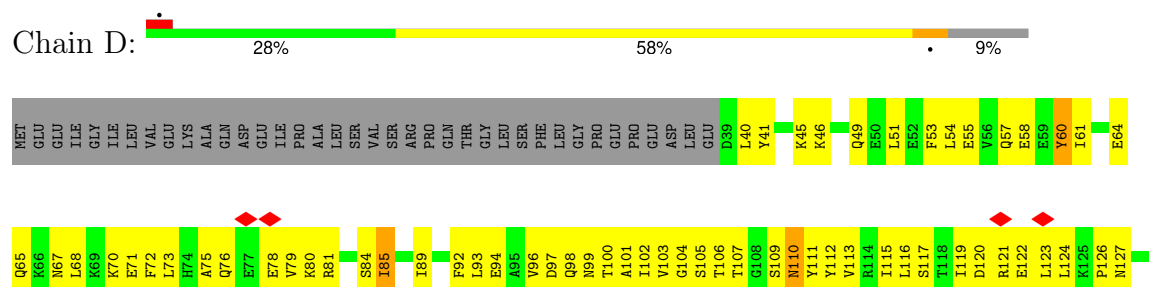
3 Residue-property plots

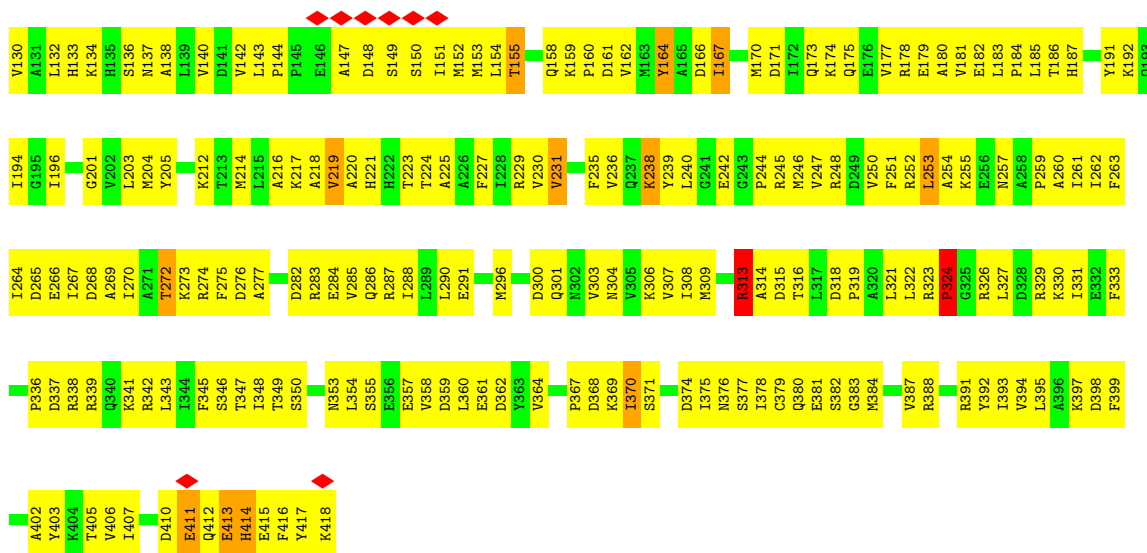
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: 26S protease regulatory subunit 8

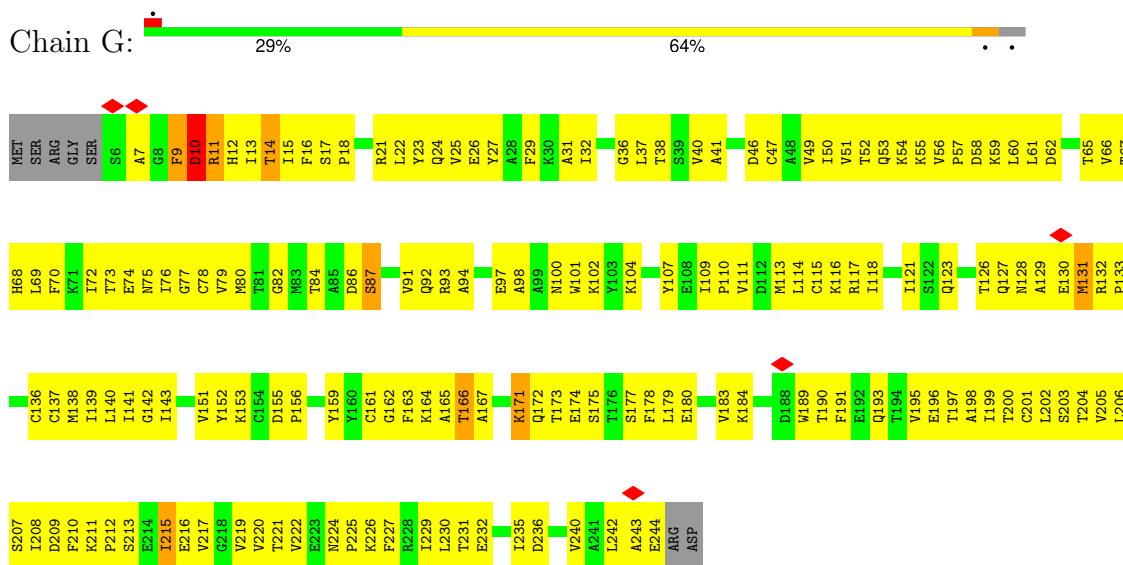


• Molecule 2: 26S proteasome regulatory subunit 6B



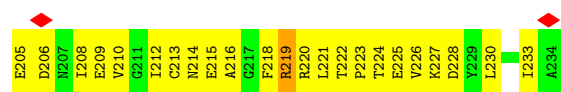


• Molecule 3: Proteasome subunit alpha type-6

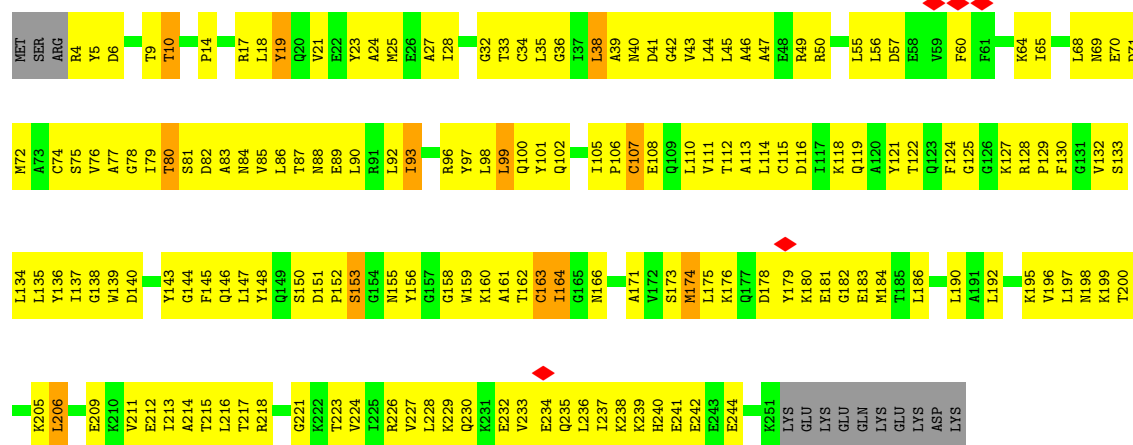


• Molecule 4: Proteasome subunit alpha type-2

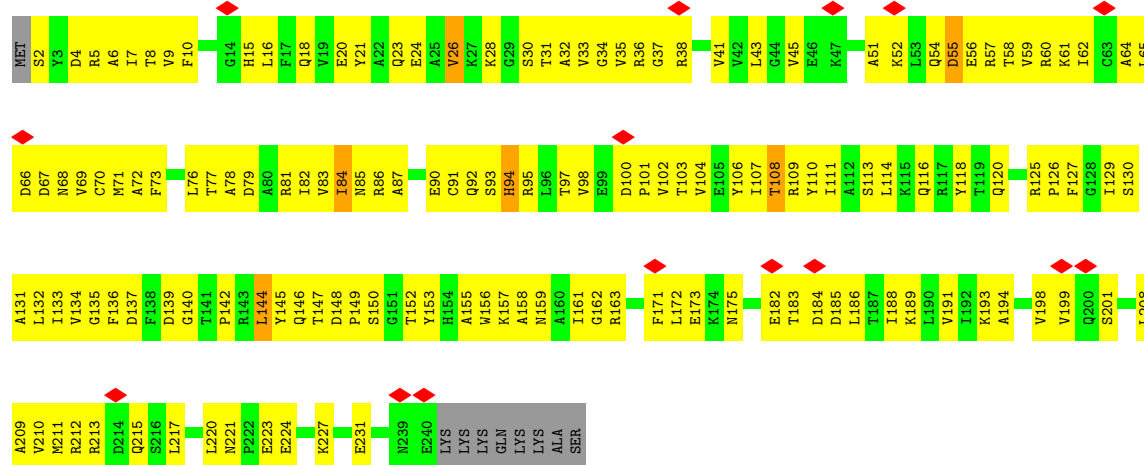




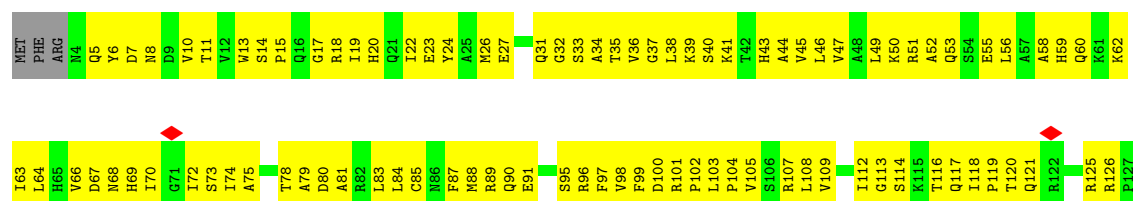
• Molecule 5: Proteasome subunit alpha type-4

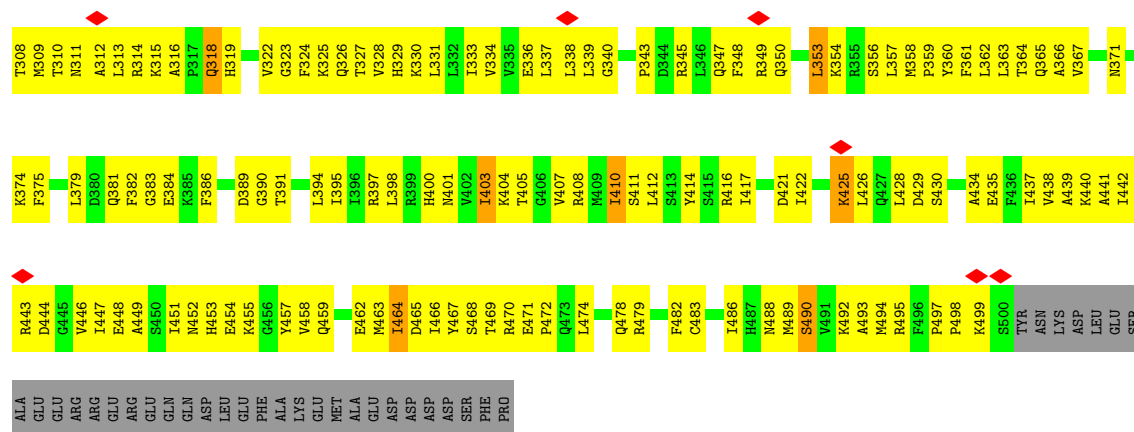


• Molecule 6: Proteasome subunit alpha type-7

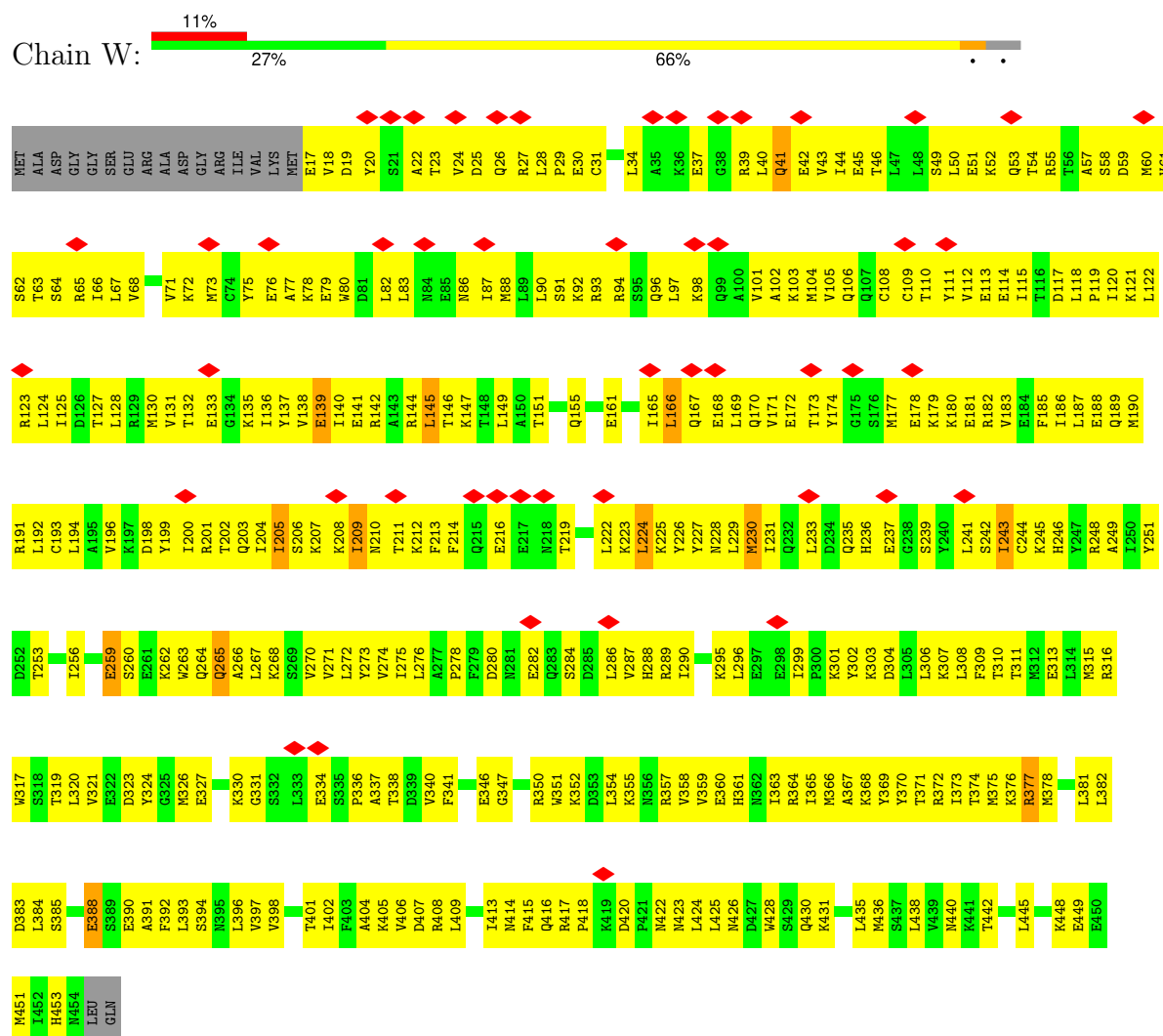


• Molecule 7: Proteasome subunit alpha type-1



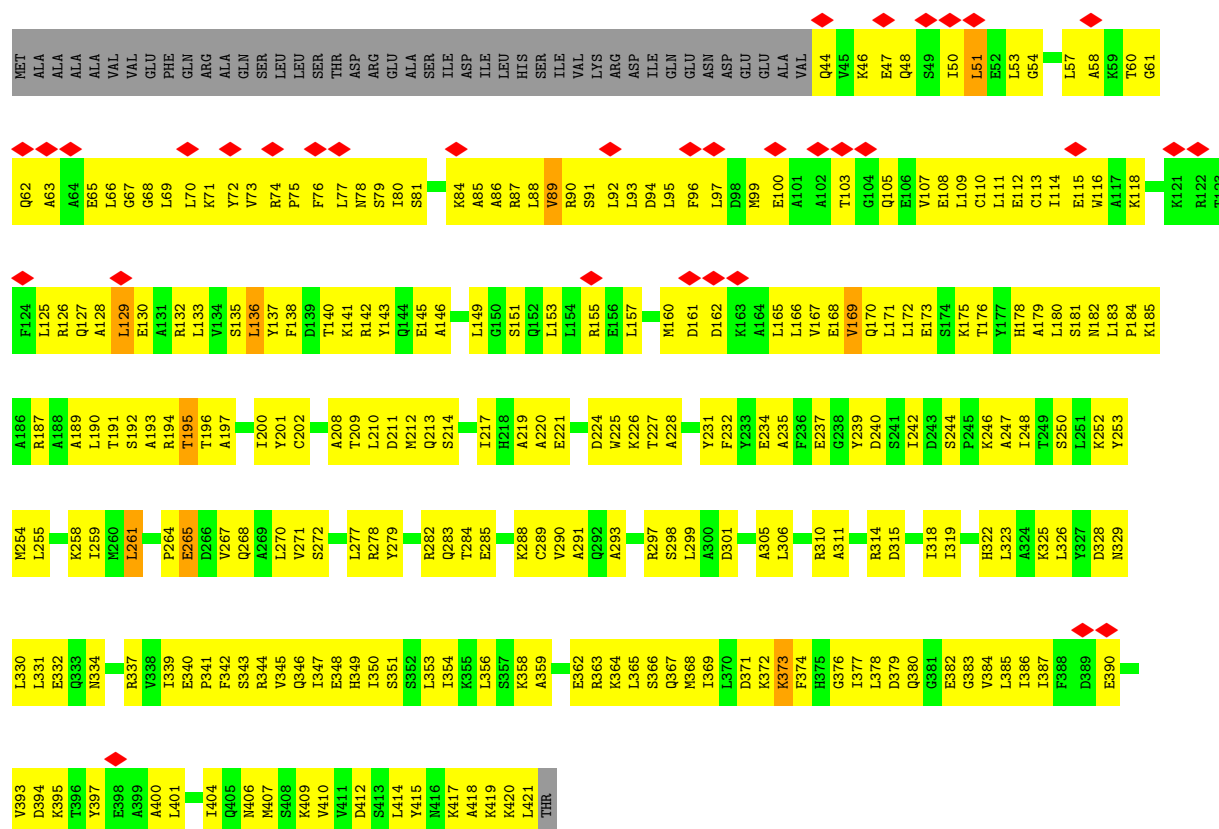


• Molecule 10: 26S proteasome non-ATPase regulatory subunit 12

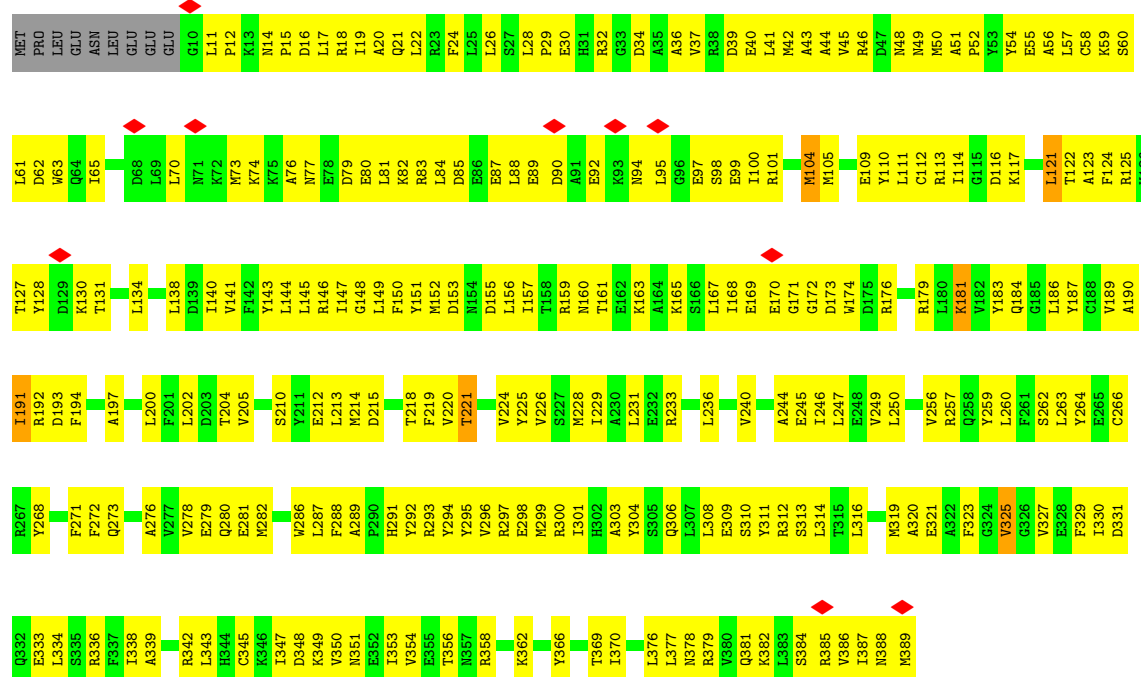


• Molecule 11: 26S proteasome non-ATPase regulatory subunit 11

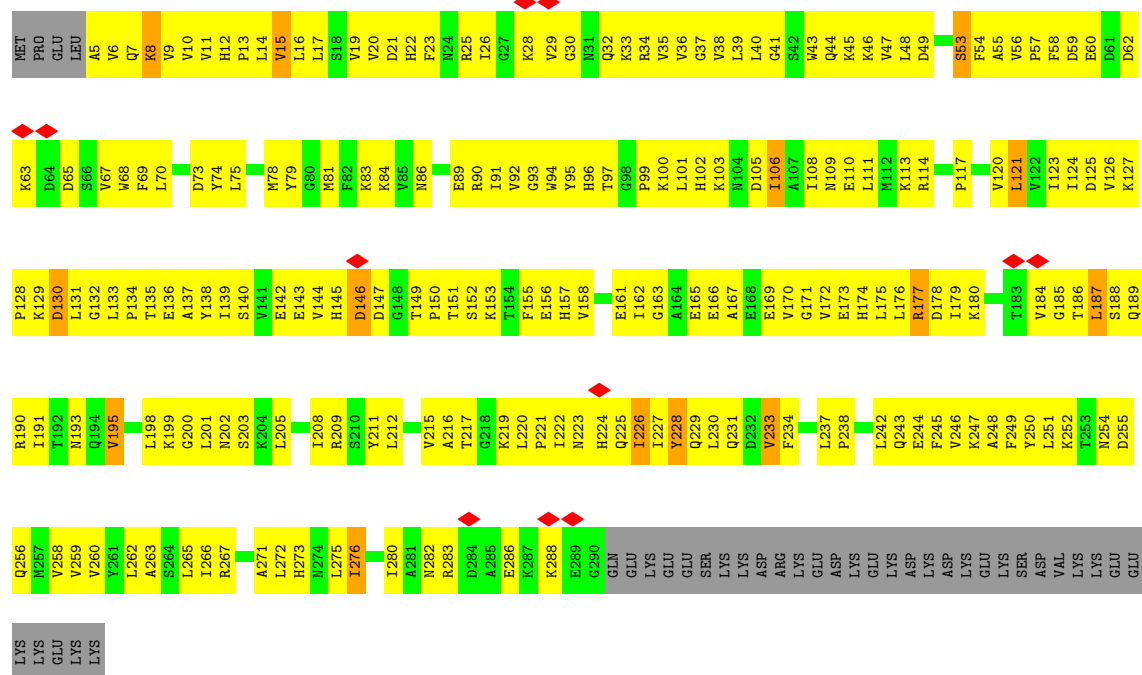




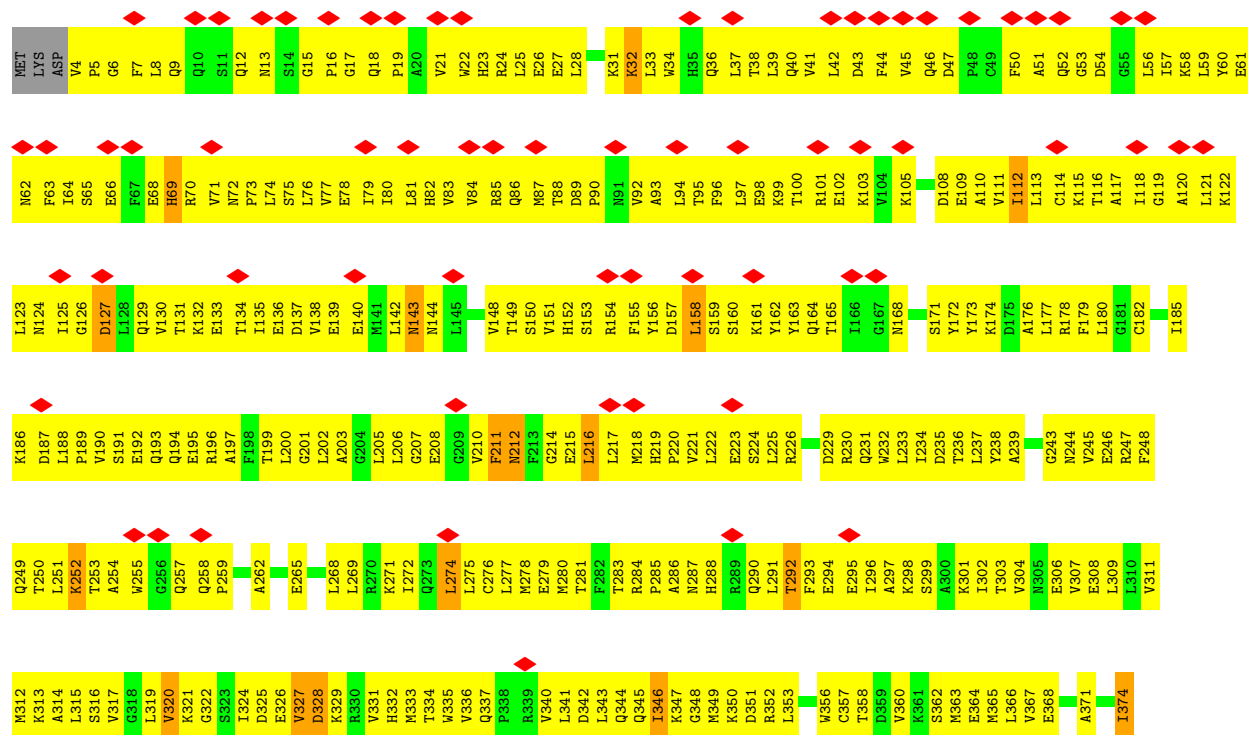
• Molecule 12: 26S proteasome non-ATPase regulatory subunit 6



• Molecule 13: 26S proteasome non-ATPase regulatory subunit 7

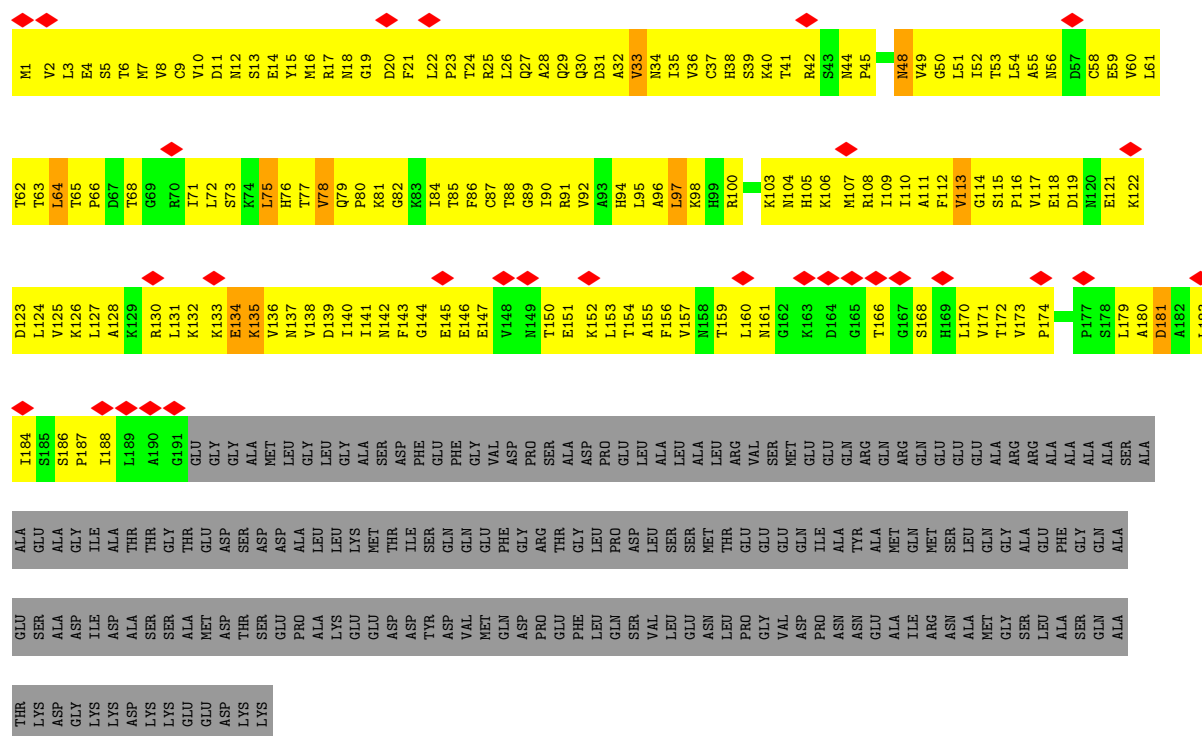


Chain a:

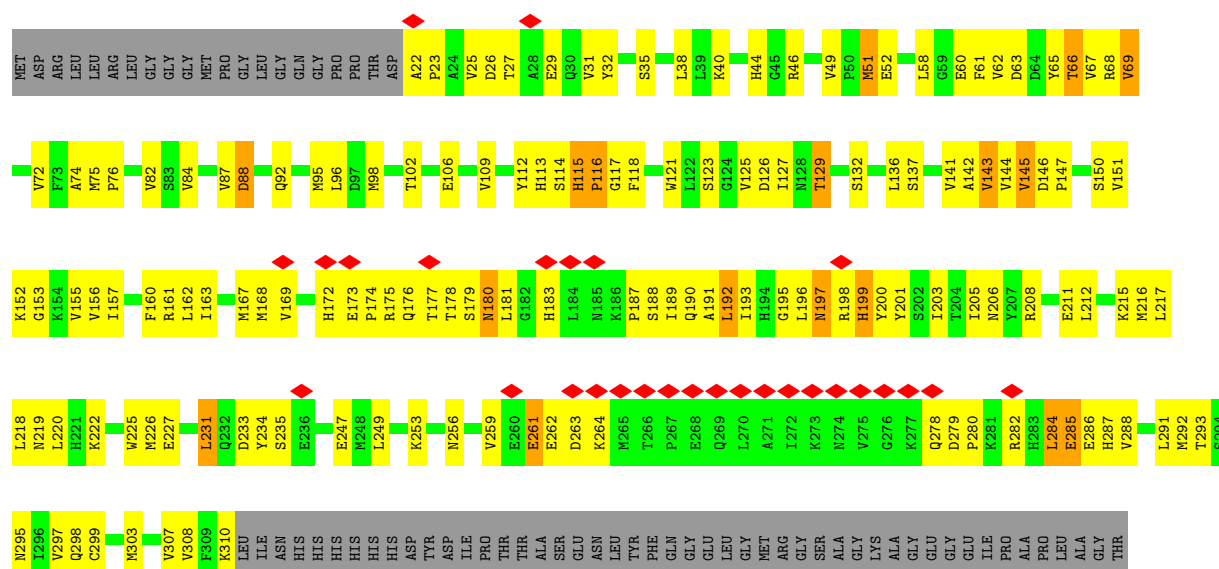


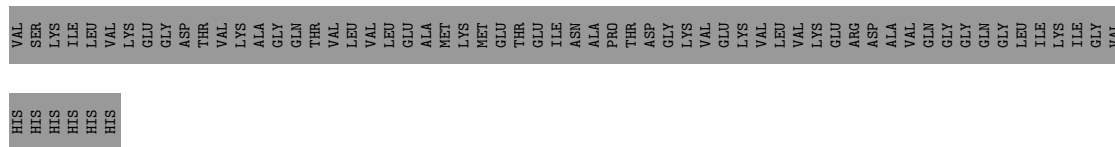
L375
T376

• Molecule 15: 26S proteasome non-ATPase regulatory subunit 4

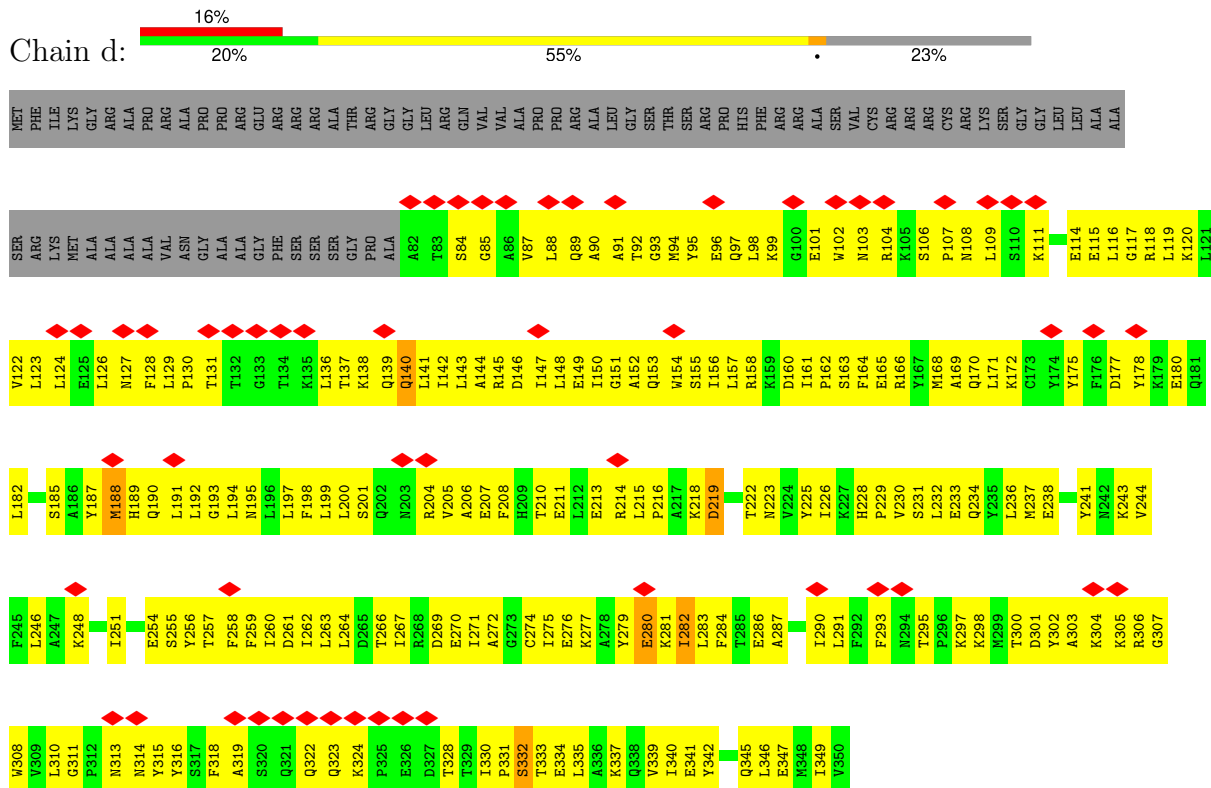


• Molecule 16: 26S proteasome non-ATPase regulatory subunit 14

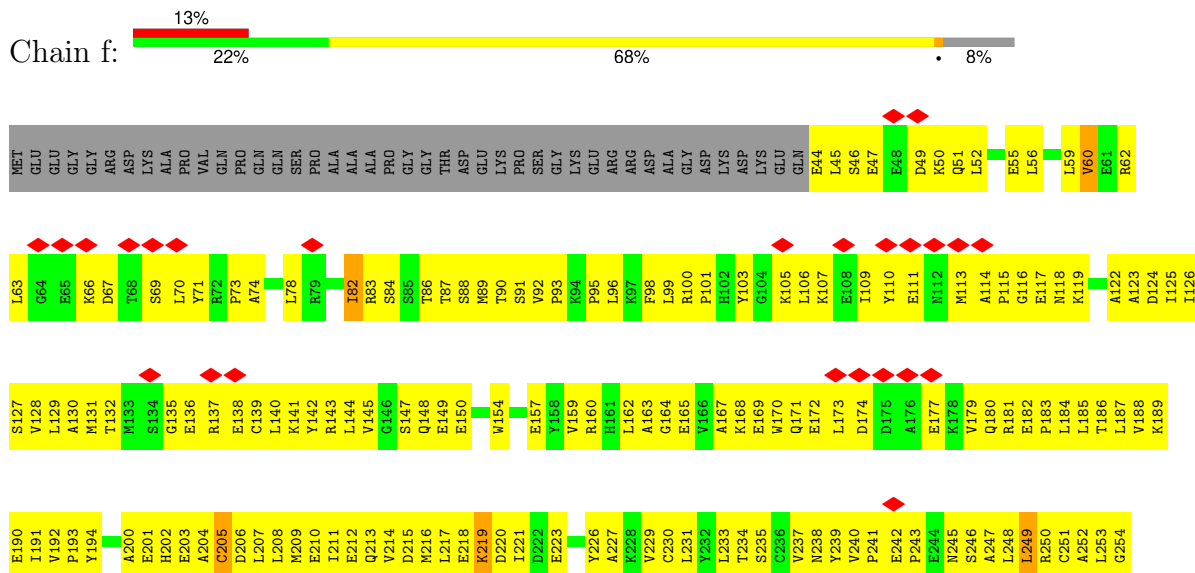


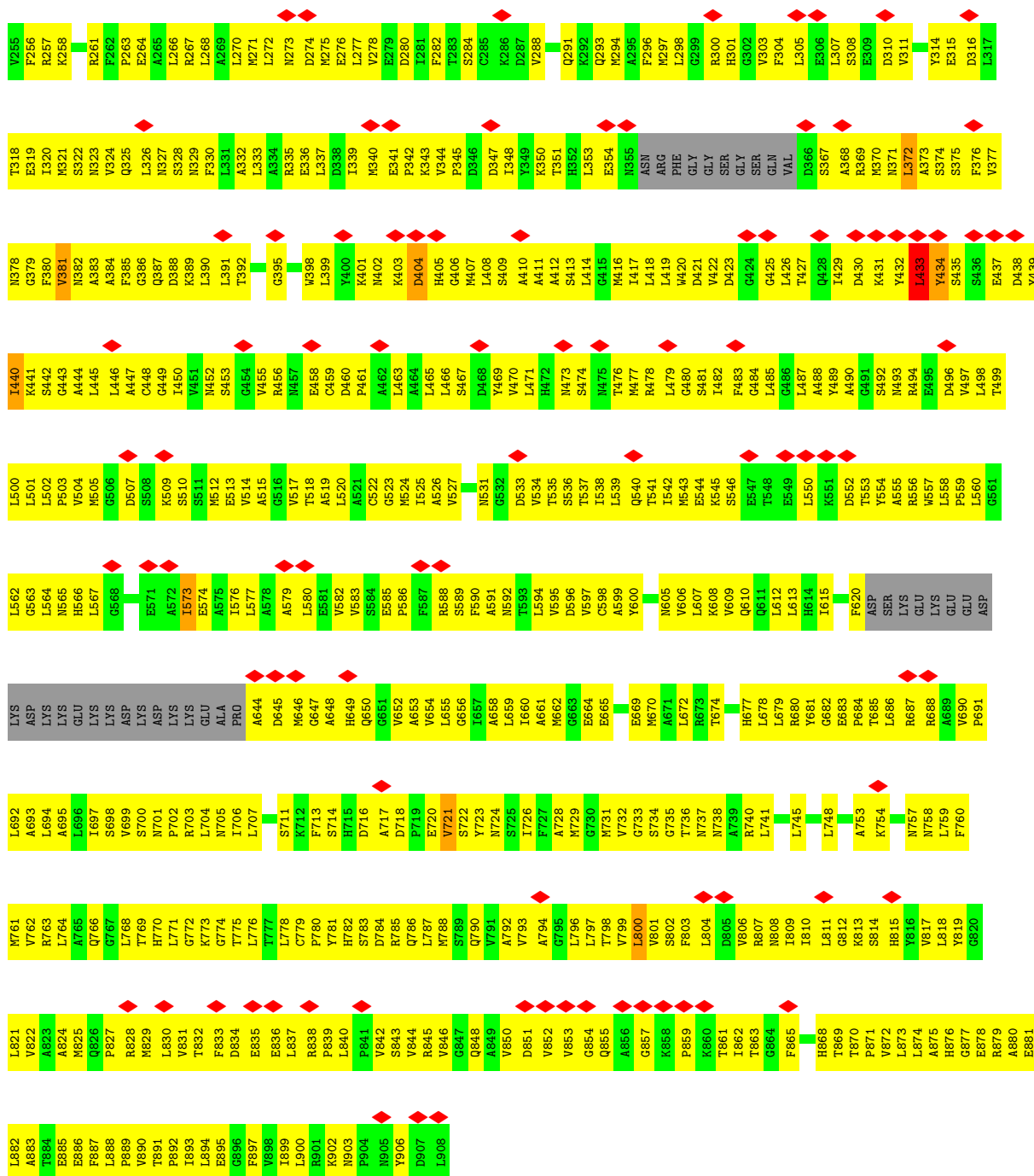


- Molecule 17: 26S proteasome non-ATPase regulatory subunit 8

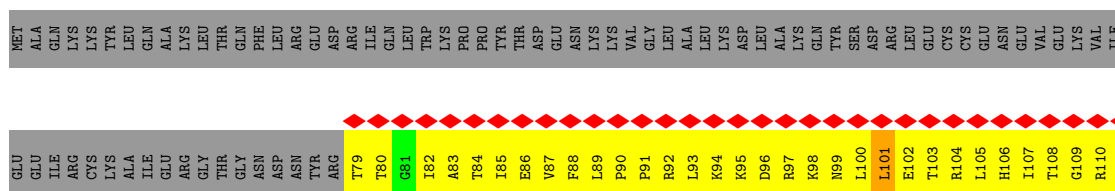


- Molecule 18: 26S proteasome non-ATPase regulatory subunit 2

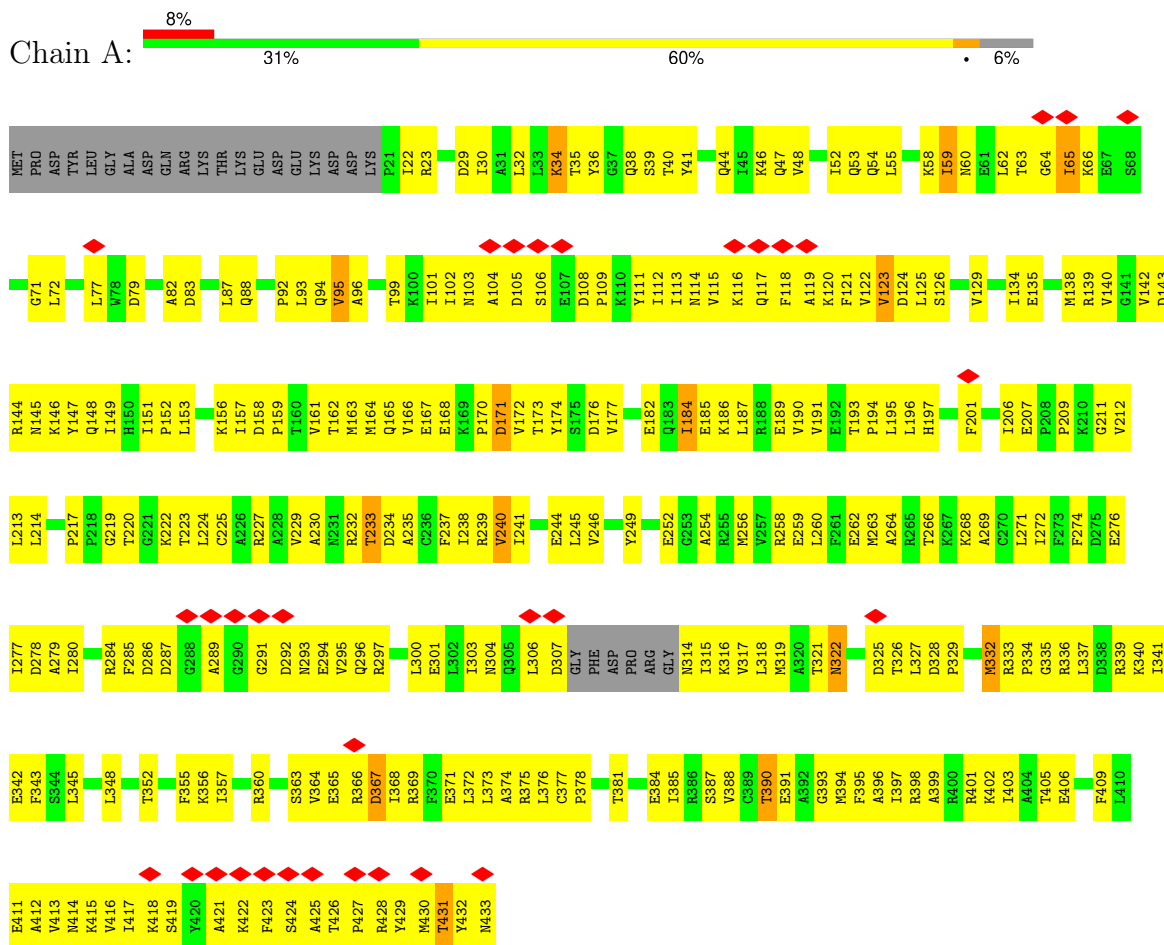




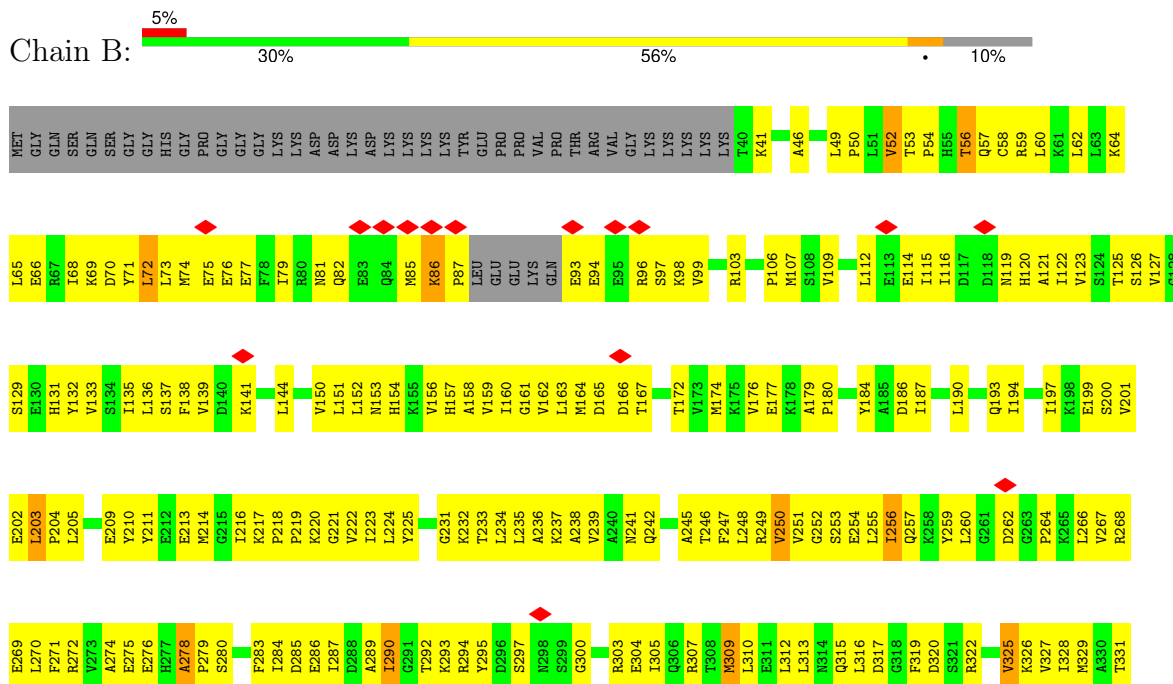
● Molecule 19: Isoform 2 of NEDD8 ultimate buster 1

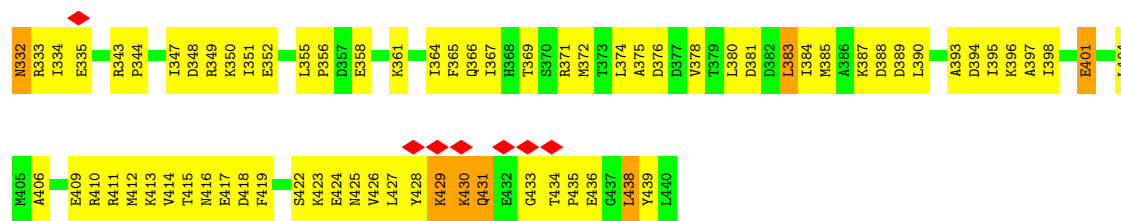


- Molecule 22: 26S proteasome regulatory subunit 7

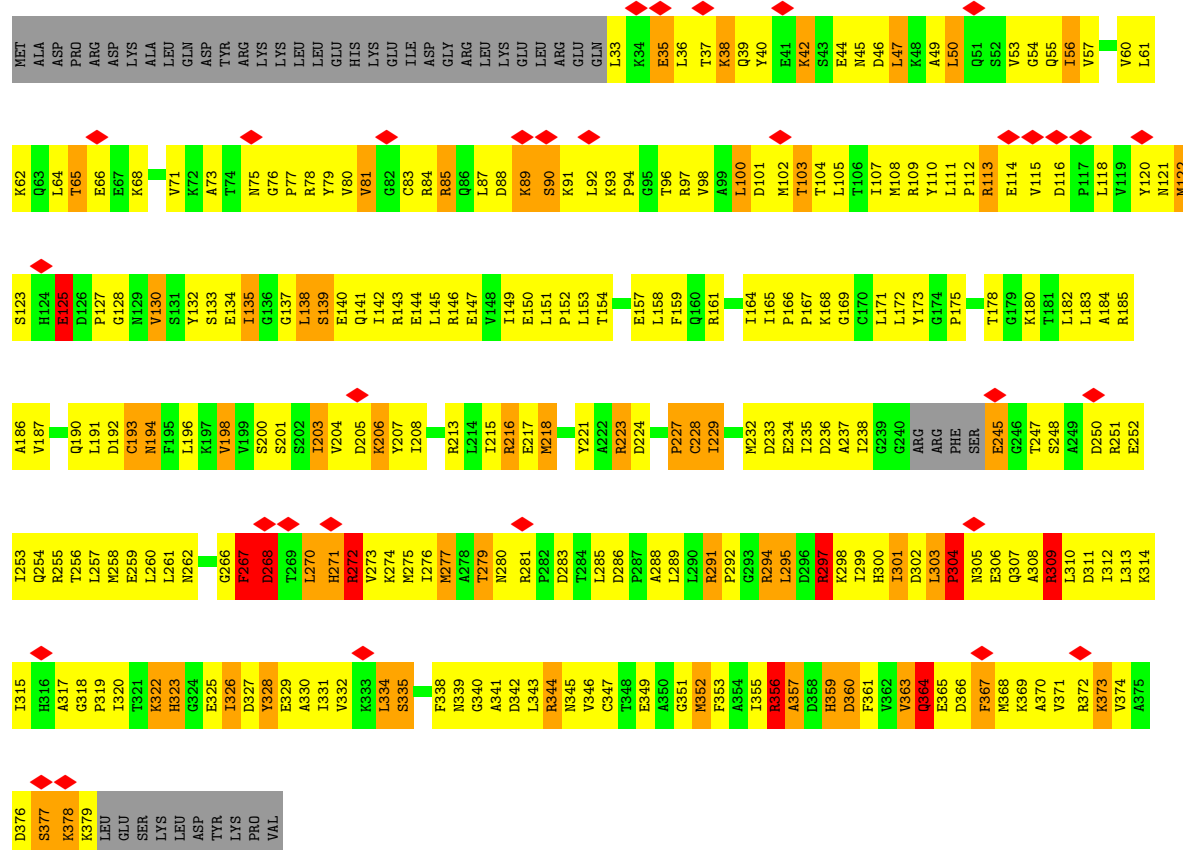
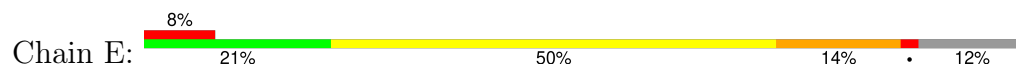


- Molecule 23: 26S proteasome regulatory subunit 4

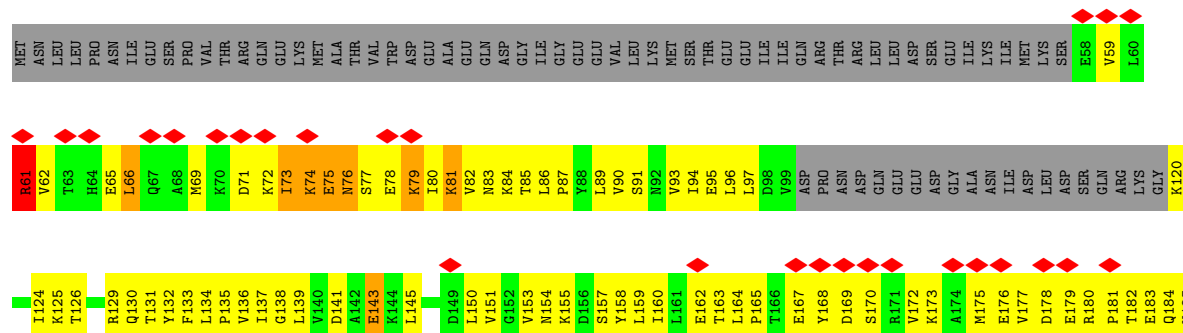


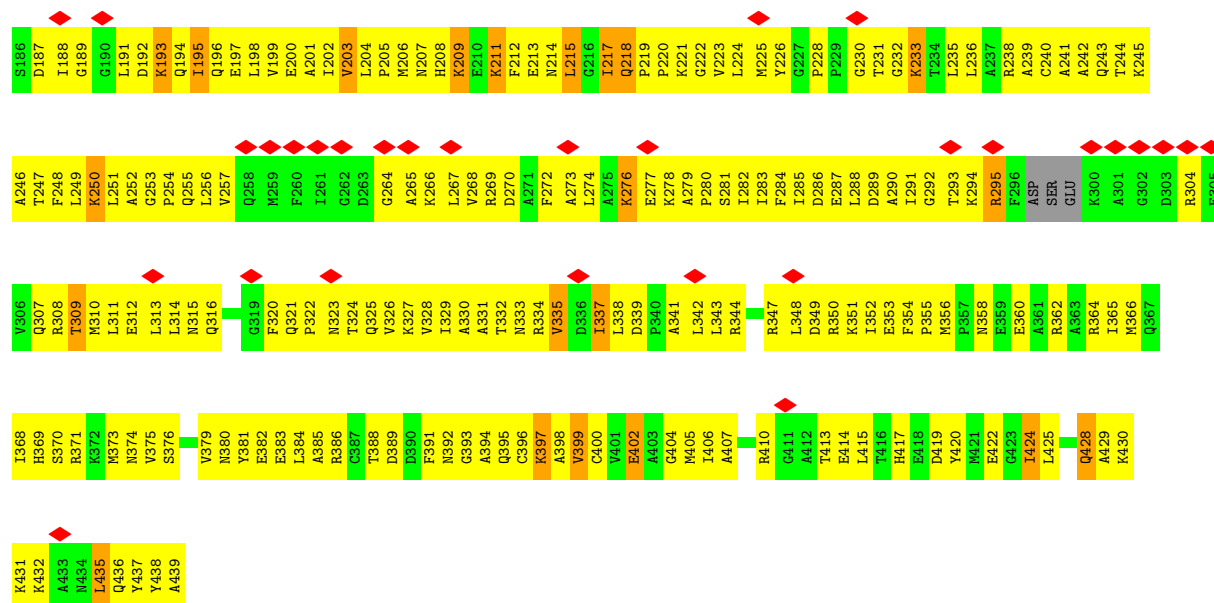


• Molecule 24: 26S protease regulatory subunit 10B

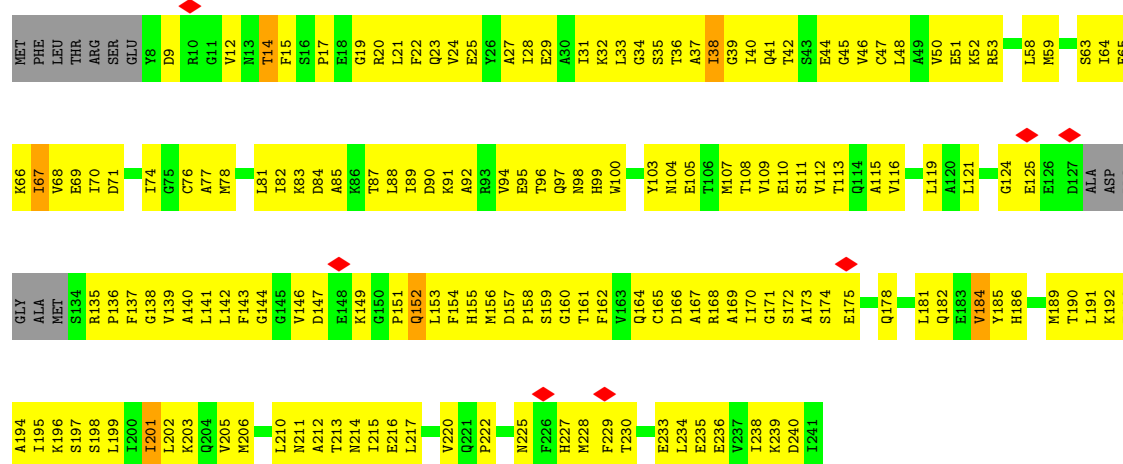


• Molecule 25: 26S proteasome regulatory subunit 6A

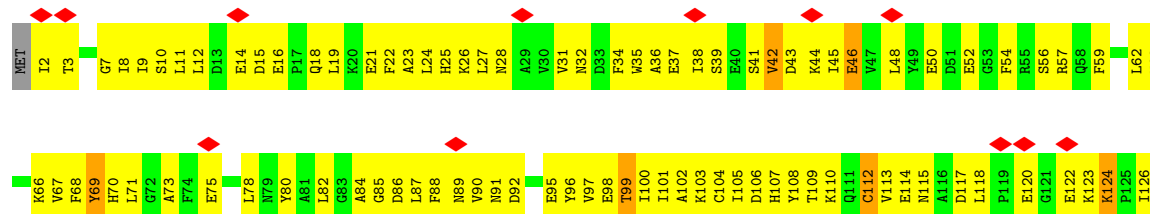


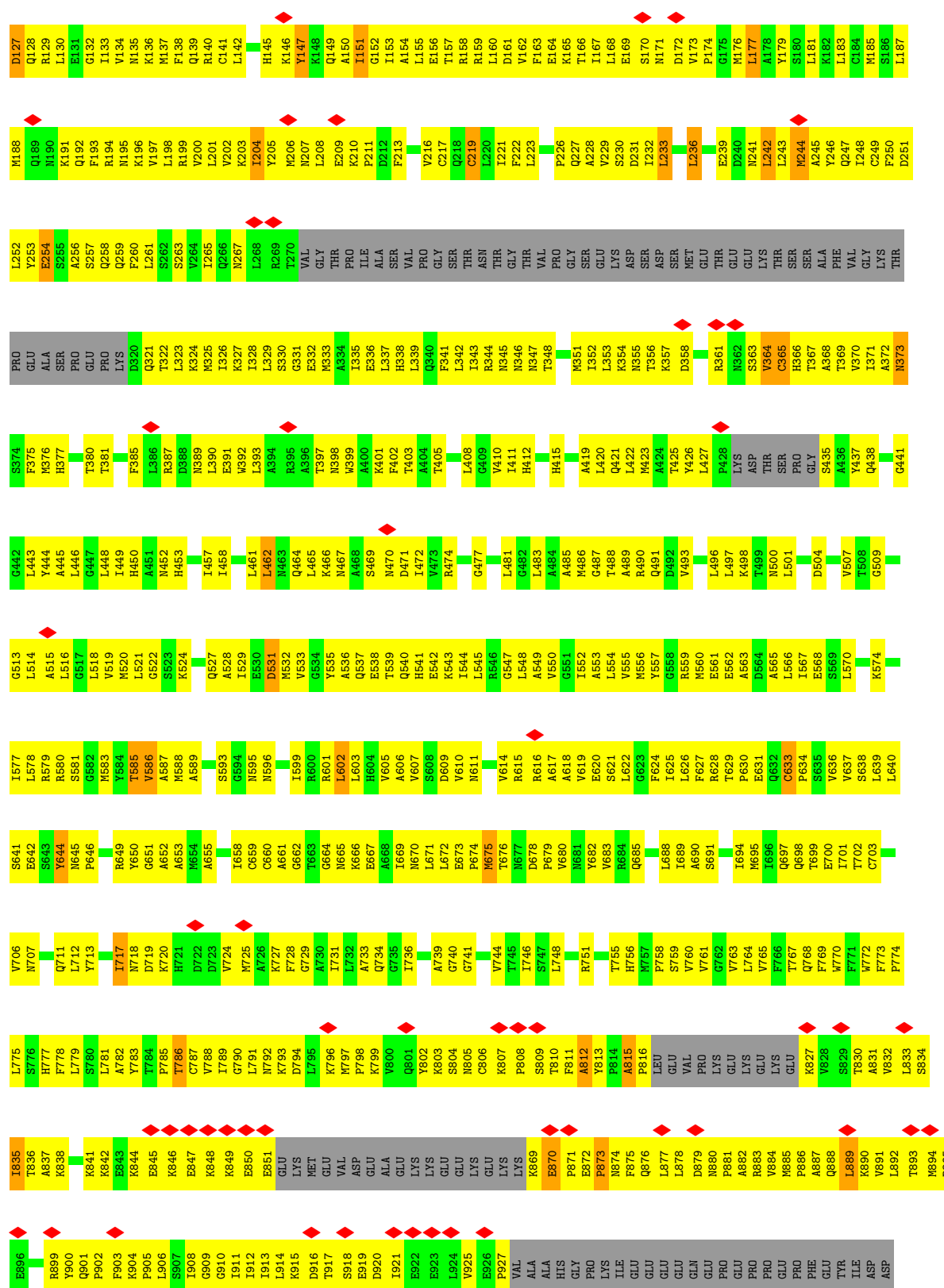


• Molecule 26: Proteasome subunit alpha type-5

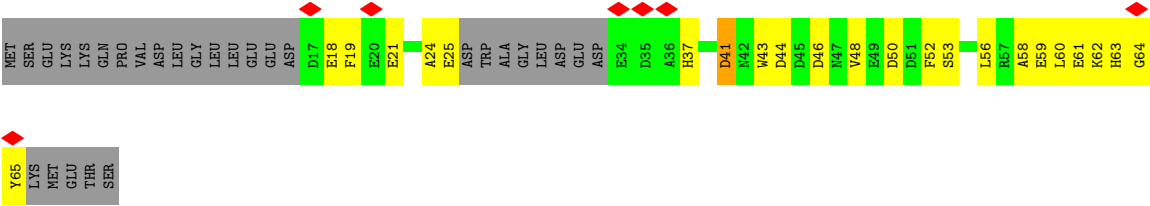


• Molecule 27: 26S proteasome non-ATPase regulatory subunit 1





• Molecule 28: 26S proteasome complex subunit SEM1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	19309	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	1700	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.618	Depositor
Minimum map value	-0.230	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.034	Depositor
Recommended contour level	0.15	Depositor
Map size (Å)	356.32, 356.32, 356.32	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.048, 1.048, 1.048	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ATP, MG, ZN, ADP

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	C	0.29	0/3092	0.45	0/4154
2	D	0.44	0/3090	0.65	0/4168
3	G	0.28	0/1853	0.45	2/2515 (0.1%)
4	H	0.29	0/1852	0.52	1/2507 (0.0%)
5	I	0.23	0/1925	0.39	0/2606
6	J	0.22	0/1758	0.37	0/2394
7	L	0.24	0/1885	0.36	0/2552
8	M	0.25	0/1891	0.40	0/2552
9	V	0.20	0/3678	0.40	0/4965
10	W	0.19	0/3618	0.32	0/4868
11	X	0.24	0/3038	0.38	0/4095
12	Y	0.24	0/3185	0.31	0/4290
13	Z	0.28	0/2324	0.40	0/3150
14	a	0.20	0/3053	0.43	0/4133
15	b	0.21	0/1478	0.42	0/2001
16	c	0.38	0/2311	0.60	2/3124 (0.1%)
17	d	0.16	0/2234	0.34	0/3018
18	f	0.19	0/6550	0.34	0/8865
19	g	0.31	0/778	0.93	4/1041 (0.4%)
20	u	0.20	0/1403	0.36	0/1892
21	v	0.80	0/4	1.05	0/4
22	A	0.26	0/3250	0.45	0/4386
23	B	0.32	0/3153	0.49	0/4255
24	E	0.77	1/2742 (0.0%)	1.23	21/3696 (0.6%)
25	F	0.37	0/2838	0.63	1/3825 (0.0%)
26	K	0.26	0/1763	0.43	0/2383
27	U	0.23	0/6696	0.38	2/9052 (0.0%)
28	e	0.20	0/362	0.32	0/490
All	All	0.30	1/71804 (0.0%)	0.49	33/96981 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	D	0	2
4	H	0	1
23	B	0	1
24	E	0	16
25	F	0	1
27	U	0	1
All	All	0	22

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	E	89	LYS	CA-C	5.07	1.59	1.52

All (33) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	g	166	ARG	N-CA-C	-14.71	95.40	113.20
24	E	90	SER	N-CA-C	9.07	122.09	111.02
19	g	171	LEU	N-CA-C	-8.62	100.90	111.33
19	g	165	ALA	N-CA-C	-8.33	101.11	113.61
27	U	644	TYR	CA-C-N	-8.05	109.27	121.83
27	U	644	TYR	C-N-CA	-8.05	109.27	121.83
24	E	334	LEU	N-CA-C	-7.93	102.86	112.54
24	E	271	HIS	CA-CB-CG	7.81	121.61	113.80
25	F	73	ILE	N-CA-C	-7.78	102.86	110.72
24	E	128	GLY	N-CA-C	-7.69	103.67	112.29
19	g	167	LYS	N-CA-C	-7.63	103.93	113.55
24	E	127	PRO	N-CA-C	-7.02	103.77	113.53
16	c	23	PRO	N-CA-CB	6.97	110.57	103.25
24	E	341	ALA	N-CA-C	-6.61	104.07	111.28
24	E	128	GLY	CA-C-O	-6.32	117.87	122.23
24	E	128	GLY	CA-C-N	-6.22	114.14	122.42
24	E	128	GLY	C-N-CA	-6.22	114.14	122.42
24	E	118	LEU	N-CA-C	-6.16	105.41	113.17
24	E	217	GLU	N-CA-C	-5.96	104.86	111.36
24	E	267	PHE	N-CA-CB	-5.94	100.45	110.49
3	G	9	PHE	N-CA-C	-5.91	104.83	111.28
24	E	89	LYS	CB-CA-C	5.75	120.07	110.92
24	E	227	PRO	CA-C-N	-5.69	114.98	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	E	227	PRO	C-N-CA	-5.69	114.98	123.00
24	E	270	LEU	CA-C-O	-5.66	114.55	120.55
24	E	364	GLN	N-CA-C	-5.66	105.88	112.89
4	H	8	PHE	N-CA-C	5.61	117.25	111.03
24	E	369	LYS	N-CA-C	5.51	117.99	111.33
24	E	50	LEU	N-CA-C	-5.37	105.43	111.28
24	E	192	ASP	N-CA-CB	-5.34	103.79	111.91
3	G	10	ASP	CB-CA-C	-5.29	99.89	110.42
24	E	367	PHE	N-CA-C	-5.04	105.86	111.36
16	c	197	ASN	N-CA-C	-5.03	106.24	112.47

There are no chirality outliers.

All (22) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
23	B	53	THR	Peptide
2	D	313	ARG	Sidechain
2	D	85	ILE	Peptide
24	E	113	ARG	Sidechain
24	E	185	ARG	Sidechain
24	E	213	ARG	Sidechain
24	E	216	ARG	Sidechain
24	E	223	ARG	Sidechain
24	E	228	CYS	Mainchain
24	E	272	ARG	Sidechain
24	E	291	ARG	Sidechain
24	E	294	ARG	Sidechain
24	E	297	ARG	Sidechain
24	E	309	ARG	Sidechain
24	E	344	ARG	Sidechain
24	E	356	ARG	Sidechain
24	E	372	ARG	Sidechain
24	E	84	ARG	Sidechain
24	E	85	ARG	Sidechain
25	F	61	ARG	Sidechain
4	H	4	ARG	Sidechain
27	U	873	PRO	Peptide

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	C	3051	0	3165	449	0
2	D	3040	0	3075	400	0
3	G	1820	0	1789	275	0
4	H	1813	0	1802	246	0
5	I	1895	0	1833	271	0
6	J	1733	0	1570	205	0
7	L	1850	0	1822	306	0
8	M	1856	0	1814	281	0
9	V	3608	0	3677	642	0
10	W	3570	0	3685	526	0
11	X	2994	0	3097	412	0
12	Y	3127	0	3133	330	0
13	Z	2281	0	2312	375	0
14	a	2995	0	3012	752	0
15	b	1458	0	1505	334	0
16	c	2269	0	2282	190	0
17	d	2188	0	2216	354	0
18	f	6442	0	6463	1089	0
19	g	771	0	815	380	0
20	u	1376	0	1324	64	0
21	v	55	0	17	3	0
22	A	3199	0	3258	409	0
23	B	3107	0	3169	408	0
24	E	2701	0	2758	391	0
25	F	2801	0	2877	494	0
26	K	1737	0	1699	277	0
27	U	6584	0	6626	1014	0
28	e	353	0	276	34	0
29	A	31	0	12	2	0
29	B	31	0	12	5	0
29	C	31	0	12	2	0
29	F	31	0	12	9	0
30	A	1	0	0	0	0
30	B	1	0	0	0	0
30	C	1	0	0	0	0
30	D	1	0	0	0	0
30	F	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	D	27	0	12	1	0
31	E	27	0	12	0	0
32	c	1	0	0	0	0
All	All	70858	0	71143	9936	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 70.

All (9936) 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)
24:E:352:MET:SD	24:E:355:ILE:HD12	1.44	1.58
24:E:235:ILE:CD1	24:E:277:MET:HB3	1.29	1.55
24:E:235:ILE:CD1	24:E:277:MET:CB	1.80	1.55
24:E:277:MET:CE	24:E:295:LEU:HD13	1.37	1.54
24:E:235:ILE:HD11	24:E:277:MET:CB	1.36	1.43
24:E:277:MET:CE	24:E:295:LEU:CD1	2.07	1.33
24:E:122:MET:HE1	25:F:344:ARG:CD	1.65	1.26
24:E:122:MET:HE1	25:F:344:ARG:NE	1.50	1.23
24:E:137:GLY:O	24:E:305:ASN:ND2	1.69	1.23
24:E:352:MET:SD	24:E:355:ILE:CD1	2.26	1.22
3:G:208:ILE:HD11	24:E:306:GLU:OE2	1.40	1.18
2:D:369:LYS:HA	2:D:369:LYS:HE3	1.21	1.17
19:g:170:GLN:HG2	19:g:173:GLU:HG3	1.20	1.16
19:g:107:ILE:HD12	19:g:111:GLU:HB3	1.25	1.16
19:g:129:ILE:HD12	19:g:155:VAL:HG22	1.18	1.15
24:E:277:MET:SD	24:E:295:LEU:HD11	1.87	1.14
27:U:536:ALA:HB1	27:U:578:LEU:HD21	1.23	1.14
10:W:409:LEU:HD22	11:X:384:VAL:HG11	1.28	1.13
12:Y:22:LEU:HD22	12:Y:37:VAL:HG13	1.22	1.13
24:E:235:ILE:CD1	24:E:277:MET:HB2	1.70	1.13
4:H:111:VAL:HG22	4:H:136:ILE:HD12	1.27	1.13
24:E:149:ILE:HD13	24:E:276:ILE:HD11	1.28	1.13
3:G:171:LYS:HA	3:G:171:LYS:HE3	1.30	1.13
18:f:474:SER:HB3	18:f:477:MET:HG2	1.29	1.13
18:f:831:VAL:HG22	18:f:871:PRO:HB3	1.28	1.12
18:f:831:VAL:HG13	18:f:871:PRO:HG3	1.20	1.12
24:E:277:MET:HE2	24:E:295:LEU:CD1	1.71	1.12
23:B:86:LYS:HD2	23:B:87:PRO:HD2	1.31	1.12
11:X:344:ARG:HG2	11:X:386:ILE:HD12	1.28	1.11
14:a:112:ILE:HG21	14:a:151:VAL:HG12	1.15	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:810:THR:HG21	27:U:873:PRO:HG2	1.21	1.11
5:I:161:ALA:HB1	5:I:175:LEU:HD23	1.30	1.11
14:a:81:LEU:HA	14:a:84:VAL:HG12	1.30	1.11
10:W:202:THR:HG22	10:W:233:LEU:HD22	1.33	1.10
12:Y:49:ASN:HA	12:Y:73:MET:HE2	1.28	1.10
27:U:803:LYS:HG3	27:U:893:THR:HB	1.26	1.10
24:E:87:LEU:HD21	24:E:92:LEU:HD11	1.25	1.09
6:J:158:ALA:HB3	26:K:58:LEU:HD22	1.35	1.09
3:G:118:ILE:HD13	3:G:138:MET:HE1	1.29	1.09
9:V:333:ILE:HD12	9:V:357:LEU:HD22	1.34	1.09
18:f:450:ILE:HD11	18:f:822:VAL:HG21	1.25	1.09
14:a:293:PHE:HB3	14:a:329:LYS:HG3	1.26	1.08
25:F:231:THR:HG21	25:F:354:PHE:HB3	1.34	1.08
15:b:107:MET:HA	15:b:107:MET:HE3	1.32	1.08
24:E:112:PRO:HD2	25:F:97:LEU:HD13	1.35	1.08
14:a:94:LEU:HD21	14:a:118:ILE:HA	1.32	1.08
22:A:92:PRO:HD3	23:B:156:VAL:HG13	1.33	1.08
24:E:235:ILE:HD13	24:E:277:MET:CB	1.78	1.08
27:U:28:ASN:HB2	27:U:63:VAL:HG22	1.30	1.08
27:U:509:GLY:HA3	27:U:544:ILE:HG13	1.36	1.08
23:B:251:VAL:HG12	23:B:254:GLU:HG3	1.37	1.07
1:C:24:TYR:HB2	2:D:40:LEU:HD21	1.31	1.07
5:I:90:LEU:HG	5:I:114:LEU:HD22	1.35	1.07
7:L:26:MET:HE1	7:L:148:CYS:HB2	1.29	1.07
23:B:197:ILE:HG21	23:B:235:LEU:HD21	1.13	1.07
22:A:393:GLY:HA3	23:B:216:ILE:HD11	1.36	1.07
27:U:876:GLN:HB3	27:U:878:LEU:HD21	1.16	1.07
24:E:87:LEU:CD2	24:E:92:LEU:HD11	1.85	1.06
3:G:208:ILE:CD1	24:E:306:GLU:OE2	2.03	1.06
27:U:324:LYS:HE3	27:U:794:ASP:HB2	1.32	1.06
18:f:439:TYR:HA	18:f:477:MET:HE1	1.34	1.06
4:H:135:LEU:HD12	4:H:163:MET:HE2	1.09	1.06
12:Y:181:LYS:HG2	12:Y:200:LEU:HD13	1.37	1.06
25:F:226:TYR:HB3	25:F:335:VAL:HG11	1.37	1.06
17:d:261:ASP:HA	17:d:264:LEU:HD12	1.37	1.06
3:G:13:ILE:HD11	3:G:126:THR:HA	1.38	1.05
24:E:275:MET:HG3	24:E:295:LEU:HD21	1.08	1.05
8:M:186:CYS:HA	8:M:189:ILE:HB	1.39	1.05
27:U:903:PHE:HB2	27:U:915:LYS:HB2	1.37	1.05
2:D:154:LEU:HD12	2:D:227:PHE:HB3	1.34	1.05
10:W:31:CYS:HB3	10:W:43:VAL:HG13	1.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:171:VAL:HG21	15:b:187:PRO:HG3	1.39	1.05
18:f:221:ILE:HD13	18:f:229:VAL:HG11	1.39	1.04
27:U:879:ASP:HB3	27:U:881:PRO:HD2	1.33	1.04
17:d:243:LYS:HD3	17:d:246:LEU:HD11	1.38	1.04
19:g:101:LEU:HD21	19:g:116:ILE:HG23	1.39	1.04
24:E:275:MET:HG3	24:E:295:LEU:CD2	1.86	1.04
27:U:559:ARG:HB3	27:U:562:GLU:HB2	1.39	1.04
8:M:108:LEU:HD22	8:M:139:SER:HB3	1.40	1.03
10:W:190:MET:HE1	10:W:206:SER:HA	1.39	1.03
10:W:203:GLN:HG2	10:W:233:LEU:HD21	1.36	1.03
27:U:869:LYS:HA	27:U:872:GLU:HB3	1.33	1.03
17:d:149:GLU:HG3	17:d:191:LEU:HD11	1.39	1.03
15:b:106:LYS:HE3	15:b:107:MET:H	1.21	1.03
24:E:235:ILE:HD11	24:E:277:MET:CA	1.88	1.03
1:C:212:ILE:HD13	1:C:237:MET:HE3	1.36	1.03
2:D:388:ARG:HH22	24:E:147:GLU:HG2	1.15	1.03
8:M:136:MET:HE3	8:M:150:MET:HB2	1.38	1.03
26:K:236:GLU:HA	26:K:239:LYS:HE3	1.40	1.03
3:G:94:ALA:HB2	3:G:118:ILE:HD11	1.37	1.03
11:X:171:LEU:HD22	11:X:210:LEU:HD23	1.41	1.03
7:L:60:GLN:HG2	25:F:439:ALA:HB1	1.39	1.02
9:V:404:LYS:HD2	9:V:446:VAL:HG21	1.35	1.02
9:V:201:ARG:HA	9:V:201:ARG:HH11	1.22	1.02
19:g:115:LYS:HA	19:g:118:GLU:HG2	1.40	1.02
23:B:387:LYS:HE2	23:B:387:LYS:HA	1.40	1.02
27:U:199:ARG:HD2	27:U:223:LEU:HD11	1.41	1.02
14:a:112:ILE:HD13	14:a:138:VAL:HG21	1.40	1.02
15:b:51:LEU:HD23	15:b:71:ILE:HG23	1.40	1.02
27:U:870:GLU:HG3	27:U:871:PRO:HD3	1.37	1.02
22:A:375:ARG:HD3	26:K:173:ALA:HB2	1.42	1.01
25:F:314:LEU:HD21	25:F:342:LEU:HD22	1.39	1.01
2:D:238:LYS:HD2	2:D:239:TYR:HD1	1.25	1.01
14:a:78:GLU:O	14:a:82:HIS:ND1	1.92	1.01
24:E:277:MET:SD	24:E:295:LEU:CD1	2.45	1.01
3:G:143:ILE:HG21	3:G:222:VAL:HA	1.42	1.01
9:V:189:ASP:O	9:V:193:GLN:N	1.92	1.01
25:F:251:LEU:HD11	25:F:256:LEU:HD21	1.43	1.01
3:G:118:ILE:HG21	3:G:138:MET:HE1	1.43	1.01
14:a:54:ASP:HA	14:a:57:ILE:HG22	1.40	1.01
12:Y:282:MET:HG3	12:Y:288:PHE:HB3	1.43	1.00
18:f:586:PRO:HB3	18:f:645:ASP:HB3	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:18:VAL:HB	10:W:57:ALA:HB1	1.41	1.00
27:U:243:LEU:HD23	27:U:913:ILE:HD12	1.42	1.00
9:V:190:ASP:HA	9:V:193:GLN:HB2	1.44	1.00
14:a:159:SER:HA	14:a:162:TYR:HB3	1.43	0.99
10:W:105:VAL:HG11	10:W:138:VAL:HG23	1.40	0.99
15:b:146:GLU:OE2	15:b:150:THR:OG1	1.78	0.99
19:g:87:VAL:HG11	19:g:101:LEU:HB2	1.41	0.99
19:g:123:GLN:HB2	19:g:126:TYR:HB2	1.44	0.99
24:E:130:VAL:HG21	24:E:182:LEU:HD11	1.42	0.99
18:f:830:LEU:HD22	18:f:874:LEU:HD21	1.40	0.99
10:W:230:MET:HE1	10:W:233:LEU:HD23	1.42	0.99
5:I:174:MET:HE3	5:I:195:LYS:HE3	1.45	0.99
22:A:162:THR:HA	22:A:263:MET:HE1	1.43	0.99
15:b:157:VAL:HG21	15:b:170:LEU:HB2	1.44	0.98
9:V:184:ALA:O	9:V:188:SER:N	1.96	0.98
14:a:84:VAL:HG23	14:a:87:MET:HE2	1.40	0.98
17:d:98:LEU:HD21	17:d:150:ILE:HG21	1.43	0.98
18:f:417:ILE:HG22	18:f:418:LEU:HD23	1.45	0.98
7:L:34:ALA:HA	7:L:162:GLY:HA3	1.44	0.98
14:a:158:LEU:O	14:a:162:TYR:N	1.94	0.98
14:a:180:LEU:HD13	14:a:221:VAL:HG21	1.45	0.98
24:E:122:MET:HE1	25:F:344:ARG:CZ	1.94	0.98
8:M:196:ILE:HA	8:M:199:ILE:HD12	1.46	0.97
14:a:80:ILE:HA	14:a:83:VAL:HB	1.44	0.97
14:a:97:LEU:HD13	14:a:114:CYS:HB3	1.45	0.97
26:K:186:HIS:H	26:K:189:MET:HE2	1.27	0.97
14:a:112:ILE:O	14:a:116:THR:N	1.97	0.97
17:d:156:ILE:HD12	17:d:255:SER:HB3	1.43	0.97
19:g:89:LEU:HD12	19:g:99:ASN:HB2	1.45	0.97
19:g:112:LEU:HB2	19:g:142:LEU:HD11	1.45	0.97
22:A:397:ILE:HD12	23:B:210:TYR:HB3	1.46	0.97
14:a:32:LYS:NZ	15:b:19:GLY:O	1.98	0.97
9:V:159:LEU:HD22	9:V:163:VAL:HG21	1.43	0.97
27:U:247:GLN:HG2	27:U:913:ILE:HG12	1.44	0.97
14:a:123:LEU:HD21	14:a:161:LYS:HB2	1.45	0.97
17:d:117:GLY:HA2	17:d:120:LYS:HE3	1.46	0.97
19:g:140:LYS:HB3	19:g:144:GLU:HG3	1.46	0.97
27:U:481:LEU:HD21	27:U:493:VAL:HG23	1.45	0.96
14:a:115:LYS:HA	14:a:118:ILE:HG22	1.43	0.96
25:F:134:LEU:HD11	25:F:159:LEU:HA	1.45	0.96
14:a:80:ILE:O	14:a:84:VAL:N	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:213:LEU:HB2	22:A:337:LEU:HD13	1.47	0.96
14:a:111:VAL:O	14:a:115:LYS:N	1.97	0.96
26:K:210:LEU:HD11	26:K:215:ILE:HG12	1.46	0.96
5:I:171:ALA:HB2	5:I:200:THR:HG21	1.48	0.96
6:J:30:SER:OG	6:J:61:LYS:NZ	1.99	0.96
5:I:45:LEU:HD12	5:I:137:ILE:HD13	1.45	0.96
25:F:292:GLY:HA2	25:F:310:MET:HE2	1.48	0.96
10:W:54:THR:HG22	10:W:59:ASP:HB3	1.47	0.95
25:F:384:LEU:HD11	25:F:420:TYR:HB3	1.45	0.95
13:Z:67:VAL:HG21	15:b:91:ARG:HD3	1.46	0.95
22:A:384:GLU:HG2	23:B:344:PRO:HG2	1.47	0.95
5:I:25:MET:HA	5:I:152:PRO:HG2	1.48	0.95
8:M:40:ARG:HA	8:M:45:VAL:HA	1.48	0.95
19:g:112:LEU:HD13	19:g:142:LEU:HD21	1.48	0.95
25:F:343:LEU:HD23	25:F:351:LYS:HD2	1.47	0.95
22:A:161:VAL:HA	22:A:164:MET:HE3	1.45	0.95
14:a:172:TYR:OH	14:a:199:THR:OG1	1.82	0.95
19:g:163:GLU:HA	19:g:166:ARG:HB2	1.47	0.95
10:W:40:LEU:HD23	10:W:82:LEU:HD22	1.49	0.95
4:H:10:LEU:HD13	4:H:21:GLN:HB3	1.47	0.94
4:H:75:VAL:HG23	4:H:135:LEU:HB2	1.48	0.94
5:I:69:ASN:OD1	5:I:70:GLU:N	1.99	0.94
17:d:295:THR:HB	17:d:298:LYS:HG3	1.48	0.94
5:I:38:LEU:HD23	5:I:160:LYS:HB3	1.46	0.94
23:B:294:ARG:HD3	23:B:310:LEU:HD11	1.48	0.94
18:f:479:LEU:HD11	18:f:513:GLU:HG2	1.47	0.94
19:g:161:SER:H	19:g:164:ASP:HB3	1.30	0.94
24:E:235:ILE:HD13	24:E:277:MET:HB3	1.35	0.94
17:d:151:GLY:O	17:d:155:SER:N	2.00	0.94
14:a:116:THR:O	14:a:120:ALA:N	1.99	0.94
15:b:127:LEU:HD23	15:b:130:ARG:HH22	1.27	0.94
19:g:132:ASN:N	19:g:152:LYS:O	2.01	0.94
24:E:122:MET:SD	25:F:344:ARG:NH1	2.41	0.94
26:K:217:LEU:HB2	26:K:234:LEU:HD11	1.48	0.94
27:U:177:LEU:HD12	27:U:204:ILE:HD13	1.49	0.94
14:a:186:LYS:O	14:a:188:LEU:HG	1.67	0.94
18:f:485:LEU:HD23	18:f:501:LEU:HD21	1.48	0.94
19:g:131:ILE:HG12	19:g:147:VAL:HG13	1.46	0.94
24:E:122:MET:HE1	25:F:344:ARG:HD3	1.49	0.94
25:F:279:ALA:HB1	25:F:280:PRO:HD2	1.47	0.94
9:V:479:ARG:HH12	12:Y:370:ILE:HD13	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:383:LEU:HD21	23:B:419:PHE:HB3	1.47	0.94
18:f:788:MET:HE2	18:f:793:VAL:HG21	1.48	0.93
22:A:246:VAL:HG21	23:B:307:ARG:HD2	1.48	0.93
3:G:171:LYS:HE2	3:G:174:GLU:OE2	1.66	0.93
7:L:33:SER:OG	7:L:51:ARG:NE	2.01	0.93
11:X:212:MET:HE1	11:X:250:SER:HA	1.48	0.93
14:a:40:GLN:O	14:a:44:PHE:N	1.99	0.93
14:a:114:CYS:HA	14:a:117:ALA:HB3	1.51	0.93
3:G:69:LEU:HD12	3:G:79:VAL:HG23	1.50	0.93
17:d:137:THR:HB	17:d:140:GLN:HB3	1.49	0.93
27:U:401:LYS:NZ	27:U:435:SER:OG	2.02	0.93
14:a:186:LYS:HZ3	14:a:193:GLN:HB2	1.29	0.93
25:F:292:GLY:HA2	25:F:310:MET:CE	1.99	0.93
6:J:155:ALA:HB3	26:K:63:SER:HB2	1.49	0.93
14:a:54:ASP:O	14:a:58:LYS:N	2.00	0.93
18:f:573:ILE:HG13	18:f:599:ALA:HB2	1.48	0.93
18:f:609:VAL:HG12	23:B:74:MET:HE1	1.50	0.93
18:f:822:VAL:HG22	18:f:825:MET:HE3	1.49	0.93
14:a:53:GLY:O	14:a:57:ILE:N	2.02	0.92
14:a:159:SER:O	14:a:163:TYR:N	2.03	0.92
18:f:163:ALA:HB2	18:f:191:ILE:HD11	1.50	0.92
19:g:132:ASN:HB2	19:g:151:VAL:HG13	1.48	0.92
19:g:89:LEU:HD12	19:g:99:ASN:HD22	1.34	0.92
3:G:51:VAL:HG12	3:G:217:VAL:HG22	1.52	0.92
27:U:78:LEU:HD11	27:U:103:LYS:HB3	1.50	0.92
12:Y:22:LEU:HD11	12:Y:40:GLU:HB3	1.48	0.92
14:a:113:LEU:O	14:a:117:ALA:N	2.03	0.92
10:W:60:MET:HE3	10:W:60:MET:H	1.32	0.92
27:U:135:ASN:HA	27:U:138:PHE:HB2	1.51	0.92
5:I:68:LEU:HD13	5:I:90:LEU:HD13	1.51	0.92
14:a:152:HIS:HB3	14:a:156:TYR:CZ	2.04	0.92
14:a:188:LEU:HD13	14:a:192:GLU:HB3	1.48	0.92
17:d:283:LEU:O	17:d:287:ALA:N	2.03	0.92
22:A:172:VAL:HG21	22:A:224:LEU:HD11	1.50	0.92
27:U:364:VAL:HG12	27:U:724:VAL:HG11	1.52	0.92
3:G:94:ALA:CB	3:G:118:ILE:HD11	2.00	0.92
10:W:331:GLY:HA3	10:W:337:ALA:HB2	1.49	0.92
14:a:77:VAL:HA	14:a:80:ILE:HG12	1.52	0.92
18:f:597:VAL:HG21	18:f:656:GLY:HA2	1.51	0.91
8:M:109:LYS:HA	8:M:149:TYR:HE2	1.35	0.91
11:X:71:LYS:HA	11:X:74:ARG:HG3	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:154:ARG:O	14:a:158:LEU:N	2.02	0.91
27:U:368:ALA:HB1	27:U:731:ILE:HB	1.49	0.91
23:B:119:ASN:O	23:B:120:HIS:ND1	2.03	0.91
27:U:876:GLN:HB3	27:U:878:LEU:CD2	2.00	0.91
12:Y:19:ILE:HD11	12:Y:44:ALA:HB1	1.52	0.91
27:U:488:THR:HG23	27:U:490:ARG:H	1.34	0.91
4:H:29:VAL:HG11	4:H:133:SER:HB3	1.52	0.91
17:d:300:THR:HA	17:d:303:ALA:HB3	1.51	0.91
1:C:273:MET:HE1	1:C:277:LEU:HD12	1.51	0.91
4:H:106:PRO:HG2	4:H:109:GLN:HG2	1.52	0.91
5:I:195:LYS:O	5:I:195:LYS:HD2	1.71	0.91
8:M:187:ARG:HD2	8:M:219:LEU:HD21	1.52	0.90
14:a:57:ILE:O	14:a:61:GLU:N	2.04	0.90
19:g:112:LEU:HB3	19:g:138:LEU:HD22	1.53	0.90
27:U:401:LYS:HE3	27:U:437:TYR:HB2	1.51	0.90
11:X:419:LYS:HA	11:X:419:LYS:HE3	1.52	0.90
14:a:58:LYS:O	14:a:62:ASN:N	2.04	0.90
22:A:29:ASP:OD2	23:B:410:ARG:NE	2.03	0.90
9:V:329:HIS:HB3	9:V:357:LEU:HD11	1.52	0.90
10:W:315:MET:HE2	10:W:358:VAL:HG22	1.52	0.90
18:f:537:THR:O	18:f:541:THR:OG1	1.87	0.90
23:B:381:ASP:HB3	23:B:385:MET:HE3	1.51	0.90
1:C:399:MET:HG3	4:H:158:TRP:HZ2	1.35	0.90
14:a:94:LEU:HD11	14:a:118:ILE:HD12	1.54	0.90
14:a:96:PHE:HD1	14:a:99:LYS:HE2	1.33	0.90
19:g:131:ILE:HD12	19:g:153:ALA:HB2	1.53	0.90
19:g:131:ILE:HG21	19:g:147:VAL:HG22	1.54	0.90
27:U:265:ILE:CG2	27:U:326:ILE:HG23	2.01	0.90
3:G:75:ASN:ND2	3:G:225:PRO:O	2.03	0.90
3:G:165:ALA:HB1	3:G:179:LEU:HD13	1.54	0.90
15:b:23:PRO:HG2	15:b:27:GLN:CD	1.97	0.90
15:b:111:ALA:HB3	15:b:140:ILE:HD13	1.51	0.90
1:C:232:ARG:NH1	1:C:275:GLU:OE2	2.05	0.90
22:A:238:ILE:HG21	22:A:260:LEU:HD11	1.53	0.90
18:f:325:GLN:O	18:f:329:ASN:ND2	2.05	0.89
27:U:804:SER:HB3	27:U:874:ASN:HA	1.51	0.89
19:g:114:SER:HA	19:g:124:GLU:HG3	1.50	0.89
1:C:135:VAL:HA	1:C:138:MET:HE3	1.54	0.89
11:X:153:LEU:HD13	11:X:169:VAL:HG21	1.54	0.89
22:A:375:ARG:CD	26:K:173:ALA:HB2	2.02	0.89
27:U:462:LEU:HD12	27:U:496:LEU:HD23	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:93:LEU:HD13	4:H:113:ARG:HB3	1.53	0.89
4:H:154:ALA:HB2	5:I:80:THR:HG21	1.55	0.89
7:L:137:TYR:CE2	7:L:217:LYS:HA	2.07	0.89
9:V:122:THR:HA	9:V:128:ARG:HD2	1.54	0.89
9:V:358:MET:HE3	9:V:359:PRO:HD3	1.54	0.89
14:a:25:LEU:HD13	14:a:37:LEU:HD13	1.52	0.89
14:a:214:GLY:HA2	14:a:340:VAL:HG11	1.51	0.89
23:B:66:GLU:HG2	27:U:834:SER:HB3	1.54	0.89
7:L:125:ARG:HH22	26:K:125:GLU:HG3	1.36	0.89
14:a:75:SER:O	14:a:79:ILE:N	2.06	0.89
17:d:99:LYS:O	17:d:103:ASN:N	2.04	0.89
18:f:845:ARG:HG3	18:f:865:PHE:HB2	1.55	0.89
2:D:117:SER:HA	2:D:121:ARG:HH22	1.37	0.89
9:V:192:MET:HA	9:V:195:ILE:HG13	1.52	0.89
18:f:431:LYS:H	19:g:172:GLU:HB2	1.38	0.89
19:g:161:SER:HB3	19:g:164:ASP:H	1.35	0.89
25:F:251:LEU:O	25:F:285:ILE:HG23	1.73	0.89
14:a:83:VAL:O	14:a:87:MET:N	2.03	0.89
17:d:87:VAL:O	17:d:91:ALA:N	2.06	0.89
19:g:128:LYS:HB2	19:g:162:GLU:HA	1.54	0.89
24:E:122:MET:CE	25:F:344:ARG:CD	2.51	0.89
7:L:80:ASP:OD2	7:L:126:ARG:NH1	2.06	0.89
10:W:278:PRO:HG3	10:W:357:ARG:HH21	1.37	0.89
14:a:335:TRP:HD1	14:a:337:GLN:H	1.18	0.89
27:U:419:ALA:HA	27:U:422:LEU:HB3	1.55	0.89
27:U:807:LYS:HB2	27:U:808:PRO:HD3	1.53	0.89
1:C:94:LYS:HB2	23:B:109:VAL:HB	1.54	0.89
2:D:388:ARG:NH2	24:E:147:GLU:HG2	1.86	0.89
3:G:211:LYS:HG2	3:G:212:PRO:HD2	1.55	0.89
17:d:92:THR:O	17:d:96:GLU:N	2.06	0.89
9:V:64:GLN:HG3	9:V:109:ASN:HD21	1.38	0.89
25:F:172:VAL:HG22	25:F:267:LEU:HD13	1.55	0.89
13:Z:145:HIS:O	13:Z:147:ASP:N	2.06	0.88
10:W:86:ASN:O	10:W:90:LEU:HG	1.73	0.88
14:a:176:ALA:HB3	14:a:200:LEU:HD13	1.56	0.88
18:f:807:ARG:HA	18:f:811:LEU:HB2	1.55	0.88
2:D:239:TYR:OH	22:A:289:ALA:O	1.90	0.88
11:X:74:ARG:NH2	11:X:113:CYS:SG	2.46	0.88
2:D:238:LYS:HD2	2:D:239:TYR:CD1	2.09	0.88
15:b:58:CYS:SG	15:b:88:THR:OG1	2.31	0.88
24:E:171:LEU:HD11	24:E:279:THR:HG22	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:71:ASP:OD2	26:K:96:THR:OG1	1.91	0.88
9:V:201:ARG:HA	9:V:201:ARG:NH1	1.88	0.88
11:X:114:ILE:HD12	11:X:130:GLU:HG3	1.53	0.88
14:a:335:TRP:CD1	14:a:337:GLN:H	1.92	0.88
18:f:542:ILE:HD12	18:f:580:LEU:HD21	1.55	0.88
18:f:832:THR:OG1	18:f:870:THR:OG1	1.77	0.88
2:D:296:MET:HE1	2:D:309:MET:HE2	1.53	0.88
9:V:440:LYS:HE3	9:V:443:ARG:HH21	1.38	0.88
14:a:115:LYS:O	14:a:119:GLY:N	2.07	0.88
15:b:130:ARG:HE	15:b:131:LEU:HD22	1.39	0.88
18:f:342:PRO:HD3	18:f:387:GLN:HE21	1.39	0.88
9:V:294:ARG:NH2	9:V:390:GLY:O	2.07	0.87
11:X:412:ASP:OD1	12:Y:379:ARG:NH2	2.07	0.87
13:Z:188:SER:HA	14:a:374:ILE:HD11	1.55	0.87
17:d:88:LEU:HD22	17:d:137:THR:HG21	1.56	0.87
18:f:612:LEU:HA	18:f:615:ILE:HD12	1.56	0.87
18:f:764:LEU:HD21	18:f:818:LEU:HD21	1.56	0.87
7:L:47:VAL:HG12	7:L:195:LEU:HD12	1.55	0.87
18:f:433:LEU:HB3	19:g:172:GLU:C	1.99	0.87
24:E:149:ILE:CD1	24:E:276:ILE:HD11	2.04	0.87
1:C:86:LEU:HD21	1:C:94:LYS:HD3	1.56	0.87
9:V:281:ASN:OD1	9:V:283:ASN:N	2.07	0.87
18:f:822:VAL:HA	18:f:825:MET:HG3	1.55	0.87
23:B:250:VAL:HG22	23:B:284:ILE:HA	1.54	0.87
4:H:10:LEU:HD11	4:H:22:ILE:HG13	1.55	0.87
14:a:123:LEU:HD21	14:a:161:LYS:CB	2.04	0.87
18:f:726:ILE:HG13	18:f:762:VAL:HG22	1.56	0.87
3:G:141:ILE:HG22	3:G:151:VAL:HG22	1.56	0.87
7:L:196:ARG:HB3	7:L:205:LEU:HD11	1.56	0.87
12:Y:300:ARG:NH1	12:Y:333:GLU:OE2	2.07	0.87
10:W:54:THR:CG2	10:W:59:ASP:HB3	2.04	0.87
11:X:47:GLU:HA	11:X:76:PHE:HZ	1.39	0.87
14:a:79:ILE:O	14:a:83:VAL:N	2.07	0.87
17:d:145:ARG:O	17:d:149:GLU:N	2.08	0.87
24:E:147:GLU:HA	24:E:151:LEU:HD13	1.54	0.87
7:L:47:VAL:HG11	7:L:192:LEU:HD23	1.57	0.87
26:K:201:ILE:O	26:K:205:VAL:HG12	1.74	0.87
10:W:424:LEU:HD11	13:Z:244:GLU:OE2	1.75	0.87
12:Y:387:ILE:HG12	13:Z:276:ILE:HG12	1.57	0.87
19:g:89:LEU:CD1	19:g:99:ASN:HB2	2.04	0.87
19:g:156:LEU:HB3	19:g:158:LEU:HD11	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:181:LEU:HD13	26:K:201:ILE:HD12	1.57	0.87
8:M:136:MET:HE1	8:M:163:CYS:HB3	1.57	0.87
22:A:393:GLY:CA	23:B:216:ILE:HD11	2.05	0.87
2:D:250:VAL:HG12	2:D:262:ILE:HD13	1.57	0.86
9:V:439:ALA:O	9:V:443:ARG:N	2.08	0.86
17:d:95:TYR:O	17:d:99:LYS:N	2.08	0.86
27:U:209:GLU:HG2	27:U:210:LYS:HG2	1.56	0.86
9:V:358:MET:HE1	9:V:382:PHE:HE2	1.38	0.86
11:X:244:SER:OG	11:X:246:LYS:NZ	2.08	0.86
14:a:43:ASP:O	14:a:47:ASP:N	2.08	0.86
18:f:543:MET:HE1	18:f:583:VAL:HB	1.57	0.86
27:U:680:VAL:HB	27:U:683:VAL:HG12	1.56	0.86
25:F:125:LYS:HG3	25:F:131:THR:HG22	1.56	0.86
27:U:748:LEU:HD23	27:U:760:VAL:HG22	1.56	0.86
9:V:62:HIS:HA	9:V:65:ARG:HD3	1.57	0.86
14:a:70:ARG:HH12	15:b:17:ARG:HD2	1.40	0.86
27:U:804:SER:N	27:U:874:ASN:O	2.07	0.86
10:W:194:LEU:HD21	10:W:202:THR:HG21	1.58	0.86
19:g:131:ILE:HG13	19:g:151:VAL:HG12	1.58	0.86
27:U:137:MET:HE1	27:U:140:ARG:HD3	1.57	0.86
27:U:791:LEU:O	27:U:913:ILE:HA	1.75	0.86
6:J:91:CYS:SG	6:J:92:GLN:NE2	2.49	0.86
14:a:276:CYS:O	14:a:280:MET:HG2	1.75	0.86
14:a:342:ASP:OD1	14:a:343:LEU:N	2.08	0.86
15:b:25:ARG:CZ	15:b:144:GLY:HA3	2.06	0.86
18:f:386:GLY:HA2	18:f:418:LEU:CD1	2.04	0.86
27:U:792:ASN:HB3	27:U:914:LEU:HB3	1.57	0.86
1:C:88:LYS:HE2	1:C:94:LYS:NZ	1.90	0.86
1:C:367:GLY:HA3	2:D:196:ILE:HG21	1.58	0.86
14:a:84:VAL:HG22	14:a:121:LEU:HD21	1.57	0.86
15:b:12:ASN:OD1	15:b:55:ALA:HB3	1.75	0.86
5:I:190:LEU:HD12	5:I:236:LEU:HD21	1.56	0.86
12:Y:49:ASN:CA	12:Y:73:MET:HE2	2.05	0.86
22:A:212:VAL:HG22	22:A:318:LEU:HD23	1.57	0.86
27:U:163:PHE:HE2	27:U:197:VAL:HG13	1.39	0.86
27:U:261:LEU:O	27:U:265:ILE:HG13	1.75	0.86
27:U:870:GLU:CG	27:U:871:PRO:HD3	2.05	0.86
18:f:45:LEU:HG	18:f:49:ASP:HB3	1.58	0.86
11:X:414:LEU:HD11	13:Z:273:HIS:HB2	1.56	0.85
12:Y:181:LYS:O	12:Y:200:LEU:HD12	1.75	0.85
13:Z:227:ILE:HD11	14:a:346:ILE:HG13	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:156:TYR:O	14:a:160:SER:N	2.09	0.85
6:J:171:PHE:O	6:J:175:ASN:ND2	2.09	0.85
7:L:184:LEU:HD11	7:L:214:ILE:HG21	1.56	0.85
14:a:28:LEU:HD12	14:a:33:LEU:HD21	1.58	0.85
14:a:274:LEU:HD21	14:a:319:LEU:CD2	2.06	0.85
18:f:583:VAL:O	18:f:588:ARG:NE	2.08	0.85
19:g:101:LEU:CD2	19:g:116:ILE:HG23	2.06	0.85
23:B:234:LEU:HD22	29:B:501:ATP:H2'	1.57	0.85
6:J:10:PHE:HE1	6:J:16:LEU:HG	1.41	0.85
24:E:346:VAL:HA	24:E:374:VAL:HG21	1.58	0.85
9:V:337:LEU:HD22	9:V:367:VAL:HG21	1.58	0.85
13:Z:34:ARG:HD2	13:Z:102:HIS:CE1	2.10	0.85
19:g:88:PHE:O	19:g:155:VAL:N	2.08	0.85
27:U:206:MET:HE2	27:U:206:MET:HA	1.59	0.85
4:H:133:SER:OG	4:H:163:MET:SD	2.34	0.85
7:L:74:ILE:HG21	7:L:81:ALA:HB1	1.55	0.85
10:W:63:THR:O	10:W:67:LEU:N	2.09	0.85
19:g:129:ILE:CD1	19:g:155:VAL:HG22	2.04	0.85
22:A:219:GLY:HA3	23:B:343:ARG:HD2	1.58	0.85
27:U:660:CYS:O	27:U:694:ILE:HG22	1.75	0.85
9:V:309:MET:HE2	9:V:328:VAL:HG13	1.59	0.85
17:d:98:LEU:O	17:d:102:TRP:N	2.10	0.85
17:d:149:GLU:HG3	17:d:191:LEU:CD1	2.07	0.85
25:F:362:ARG:NH2	25:F:389:ASP:OD1	2.09	0.85
26:K:88:LEU:HD22	26:K:116:VAL:HG13	1.55	0.85
7:L:196:ARG:HB3	7:L:205:LEU:CD1	2.07	0.85
14:a:205:LEU:HD21	14:a:237:LEU:HD13	1.58	0.85
18:f:594:LEU:HD12	18:f:652:VAL:HG11	1.58	0.85
18:f:702:PRO:HD3	18:f:736:THR:HG21	1.56	0.85
18:f:213:GLN:NE2	18:f:216:MET:SD	2.50	0.85
18:f:701:ASN:HD21	18:f:703:ARG:HH12	1.24	0.85
14:a:157:ASP:O	14:a:161:LYS:N	2.08	0.85
15:b:112:PHE:CE1	15:b:141:ILE:HD11	2.11	0.85
18:f:83:ARG:O	18:f:87:THR:OG1	1.93	0.85
18:f:325:GLN:NE2	18:f:328:SER:OG	2.10	0.85
26:K:151:PRO:O	26:K:152:GLN:HG2	1.77	0.85
27:U:443:LEU:HD23	27:U:477:GLY:HA2	1.56	0.85
27:U:641:SER:HB2	27:U:675:MET:HE1	1.59	0.85
6:J:116:GLN:NE2	26:K:87:THR:OG1	2.08	0.85
22:A:153:LEU:HD23	23:B:122:ILE:HD11	1.59	0.85
3:G:126:THR:HG22	4:H:128:ARG:HH12	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:270:VAL:HG13	10:W:290:ILE:HD11	1.59	0.84
10:W:309:PHE:CE1	10:W:315:MET:HE1	2.12	0.84
15:b:100:ARG:NH2	20:u:136:GLU:OE1	2.10	0.84
8:M:167:LYS:NZ	8:M:206:ASP:OD2	2.10	0.84
9:V:345:ARG:O	9:V:345:ARG:HD3	1.76	0.84
10:W:183:VAL:HG12	10:W:222:LEU:HD13	1.58	0.84
18:f:543:MET:HE2	18:f:543:MET:HA	1.59	0.84
27:U:389:ASN:OD1	27:U:392:TRP:HB3	1.78	0.84
4:H:111:VAL:HG22	4:H:136:ILE:CD1	2.07	0.84
9:V:192:MET:O	9:V:196:SER:N	2.10	0.84
14:a:42:LEU:O	14:a:46:GLN:N	2.09	0.84
18:f:62:ARG:HB3	18:f:70:LEU:HD22	1.57	0.84
23:B:365:PHE:O	23:B:369:THR:HG22	1.77	0.84
9:V:438:VAL:HG12	9:V:451:ILE:HD11	1.58	0.84
11:X:190:LEU:HD21	11:X:214:SER:HB2	1.59	0.84
13:Z:149:THR:HG23	13:Z:150:PRO:HD2	1.58	0.84
17:d:127:ASN:HD22	17:d:136:LEU:HD11	1.40	0.84
1:C:214:VAL:HG11	1:C:219:LEU:HD21	1.60	0.84
2:D:309:MET:HE3	2:D:327:LEU:HD11	1.60	0.84
5:I:47:ALA:HB1	5:I:64:LYS:HD3	1.59	0.84
9:V:190:ASP:O	9:V:194:LYS:N	2.09	0.84
18:f:478:ARG:NH1	18:f:510:SER:OG	2.08	0.84
5:I:138:GLY:HA2	5:I:216:LEU:HD13	1.60	0.84
10:W:108:CYS:HB3	10:W:128:LEU:HD11	1.58	0.84
10:W:268:LYS:HE3	10:W:299:ILE:HG22	1.58	0.84
11:X:140:THR:HG22	11:X:142:ARG:HG3	1.59	0.84
18:f:367:SER:O	18:f:371:ASN:ND2	2.11	0.84
18:f:680:ARG:NH1	22:A:66:LYS:HG3	1.92	0.84
23:B:436:GLU:OE1	23:B:436:GLU:N	2.11	0.84
5:I:218:ARG:NH1	5:I:223:THR:OG1	2.10	0.84
10:W:62:SER:O	10:W:66:ILE:N	2.11	0.84
10:W:186:ILE:HG21	10:W:209:ILE:HB	1.59	0.84
15:b:35:ILE:HG13	15:b:188:ILE:HD13	1.59	0.84
26:K:157:ASP:HB2	26:K:158:PRO:HD2	1.57	0.84
2:D:384:MET:HE1	24:E:159:PHE:HE1	1.42	0.84
9:V:184:ALA:HA	9:V:187:ILE:HB	1.60	0.84
11:X:407:MET:HE2	11:X:407:MET:HA	1.59	0.84
14:a:293:PHE:CB	14:a:329:LYS:HG3	2.07	0.84
25:F:254:PRO:HD3	25:F:287:GLU:HB2	1.59	0.84
1:C:399:MET:HG3	4:H:158:TRP:CZ2	2.13	0.83
11:X:299:LEU:HD12	11:X:299:LEU:H	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:28:LEU:HB3	14:a:33:LEU:HD11	1.58	0.83
25:F:188:ILE:HD12	25:F:239:ALA:HB2	1.60	0.83
6:J:79:ASP:OD2	6:J:125:ARG:NH1	2.10	0.83
18:f:466:LEU:HD12	18:f:481:SER:HA	1.59	0.83
22:A:195:LEU:HD21	22:A:316:LYS:HD3	1.59	0.83
27:U:465:LEU:HD22	27:U:496:LEU:HD21	1.59	0.83
27:U:469:SER:OG	27:U:471:ASP:OD2	1.95	0.83
1:C:88:LYS:HE2	1:C:94:LYS:HZ3	1.41	0.83
3:G:118:ILE:HG21	3:G:138:MET:CE	2.07	0.83
5:I:82:ASP:OD2	5:I:128:ARG:NH1	2.10	0.83
14:a:149:THR:HB	14:a:182:CYS:HB3	1.59	0.83
25:F:130:GLN:OE1	25:F:132:TYR:OH	1.96	0.83
15:b:18:ASN:OD1	15:b:25:ARG:NH1	2.11	0.83
18:f:109:ILE:O	18:f:113:MET:N	2.11	0.83
18:f:830:LEU:N	18:f:872:VAL:O	2.11	0.83
27:U:324:LYS:O	27:U:328:ILE:HG12	1.78	0.83
27:U:900:TYR:HB3	27:U:914:LEU:HD21	1.59	0.83
7:L:137:TYR:HE2	7:L:217:LYS:HA	1.43	0.83
8:M:27:MET:HG2	8:M:153:PRO:HD2	1.60	0.83
10:W:144:ARG:NH2	10:W:181:GLU:OE2	2.11	0.83
11:X:365:LEU:O	11:X:369:ILE:HG13	1.77	0.83
17:d:102:TRP:CE3	17:d:150:ILE:HG12	2.13	0.83
18:f:257:ARG:HA	18:f:257:ARG:CZ	2.08	0.83
19:g:140:LYS:HB2	19:g:145:GLN:HB3	1.57	0.83
24:E:50:LEU:HD21	25:F:139:LEU:HD11	1.60	0.83
13:Z:45:LYS:H	13:Z:45:LYS:HD2	1.41	0.83
1:C:132:ASP:HB2	1:C:135:VAL:HG12	1.60	0.83
3:G:208:ILE:CD1	24:E:306:GLU:CD	2.50	0.83
4:H:130:PHE:O	4:H:151:PRO:HB3	1.79	0.83
18:f:425:GLY:O	18:f:429:ILE:HG12	1.77	0.83
22:A:113:ILE:HD12	22:A:142:VAL:HG11	1.59	0.83
22:A:120:LYS:HB2	25:F:90:VAL:CG1	2.08	0.83
2:D:153:MET:SD	2:D:257:ASN:ND2	2.51	0.83
2:D:388:ARG:HH21	24:E:297:ARG:NH1	1.76	0.83
5:I:174:MET:SD	5:I:196:VAL:HA	2.19	0.83
9:V:174:PHE:O	9:V:178:SER:N	2.11	0.83
13:Z:243:GLN:HE21	13:Z:247:LYS:HE3	1.44	0.83
14:a:115:LYS:HA	14:a:118:ILE:CG2	2.09	0.83
14:a:231:GLN:O	14:a:234:ILE:HG22	1.78	0.83
17:d:119:LEU:HD13	17:d:147:ILE:HG12	1.59	0.83
23:B:322:ARG:HD2	23:B:325:VAL:HG13	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:108:GLU:OE1	6:J:57:ARG:NH1	2.12	0.83
2:D:167:ILE:HG22	2:D:214:MET:HG2	1.61	0.82
4:H:65:VAL:HG22	4:H:75:VAL:CG1	2.08	0.82
7:L:133:LEU:HD21	7:L:161:ILE:HG12	1.60	0.82
9:V:482:PHE:HZ	12:Y:381:GLN:HB2	1.44	0.82
13:Z:125:ASP:HB2	13:Z:128:PRO:HG2	1.60	0.82
14:a:61:GLU:O	14:a:65:SER:N	2.12	0.82
19:g:128:LYS:HA	19:g:162:GLU:HB3	1.59	0.82
19:g:140:LYS:O	19:g:145:GLN:NE2	2.12	0.82
10:W:113:GLU:OE2	10:W:113:GLU:N	2.12	0.82
15:b:35:ILE:HG21	15:b:184:ILE:HG22	1.59	0.82
22:A:187:LEU:HD21	22:A:229:VAL:HG21	1.61	0.82
6:J:148:ASP:OD1	6:J:149:PRO:HD2	1.80	0.82
10:W:316:ARG:NH2	10:W:383:ASP:OD1	2.09	0.82
17:d:190:GLN:O	17:d:194:LEU:HD12	1.79	0.82
18:f:703:ARG:HB3	18:f:706:ILE:HG22	1.60	0.82
9:V:463:MET:SD	9:V:464:ILE:N	2.51	0.82
14:a:114:CYS:O	14:a:118:ILE:N	2.11	0.82
15:b:97:LEU:HD21	15:b:109:ILE:HD11	1.58	0.82
1:C:184:LYS:N	1:C:312:ASP:OD2	2.13	0.82
2:D:80:LYS:HA	2:D:80:LYS:HE2	1.59	0.82
3:G:80:MET:SD	3:G:138:MET:HG3	2.19	0.82
5:I:86:LEU:HD21	5:I:118:LYS:NZ	1.94	0.82
9:V:457:TYR:HE1	9:V:459:GLN:HB2	1.43	0.82
10:W:267:LEU:HA	10:W:270:VAL:HG12	1.60	0.82
17:d:85:GLY:HA2	17:d:88:LEU:HB3	1.59	0.82
24:E:122:MET:CE	25:F:344:ARG:HD3	2.10	0.82
25:F:124:ILE:HG13	25:F:160:ILE:HD11	1.61	0.82
26:K:107:MET:HG2	26:K:111:SER:OG	1.80	0.82
27:U:483:LEU:HD13	27:U:778:PHE:HE1	1.45	0.82
18:f:784:ASP:N	18:f:895:GLU:OE2	2.10	0.82
19:g:128:LYS:HD3	19:g:162:GLU:HB2	1.62	0.82
24:E:47:LEU:HD22	25:F:76:ASN:HD22	1.44	0.82
2:D:349:THR:HG21	2:D:360:LEU:HD11	1.61	0.82
3:G:202:LEU:HG	3:G:210:PHE:HZ	1.45	0.82
6:J:68:ASN:HA	6:J:211:MET:HE1	1.62	0.82
9:V:169:LEU:O	9:V:173:ILE:N	2.10	0.82
12:Y:114:ILE:HD11	12:Y:116:ASP:HB2	1.62	0.82
18:f:226:TYR:CE2	18:f:261:ARG:HG3	2.15	0.82
18:f:772:GLY:O	18:f:775:THR:OG1	1.96	0.82
19:g:113:ARG:HG2	19:g:124:GLU:HG2	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:295:TYR:HE1	23:B:297:SER:HB2	1.42	0.82
27:U:810:THR:CG2	27:U:873:PRO:HG2	2.08	0.82
11:X:363:ARG:NH2	12:Y:266:CYS:O	2.13	0.82
11:X:407:MET:HA	11:X:410:VAL:HG12	1.61	0.82
14:a:162:TYR:O	14:a:165:THR:OG1	1.98	0.82
9:V:313:LEU:HD21	9:V:329:HIS:NE2	1.95	0.82
14:a:97:LEU:HD22	14:a:117:ALA:CB	2.10	0.82
15:b:97:LEU:CD2	15:b:109:ILE:HD11	2.08	0.82
1:C:212:ILE:HD13	1:C:237:MET:CE	2.09	0.82
7:L:202:GLU:OE1	7:L:202:GLU:N	2.12	0.82
9:V:358:MET:HE1	9:V:382:PHE:CE2	2.14	0.82
10:W:51:GLU:OE1	10:W:93:ARG:NH1	2.13	0.82
14:a:313:LYS:O	14:a:316:SER:N	2.11	0.82
23:B:82:GLN:O	23:B:86:LYS:HB2	1.80	0.82
9:V:282:ASN:HD21	12:Y:385:ARG:HB2	1.44	0.81
12:Y:218:THR:O	12:Y:221:THR:HG22	1.80	0.81
14:a:112:ILE:CG2	14:a:151:VAL:HG12	2.07	0.81
14:a:211:PHE:HB2	14:a:275:LEU:HD21	1.61	0.81
17:d:129:LEU:HB3	17:d:130:PRO:HD2	1.60	0.81
18:f:267:ARG:CZ	18:f:297:MET:HE3	2.09	0.81
27:U:244:MET:HG2	27:U:903:PHE:HE2	1.43	0.81
14:a:216:LEU:HD21	14:a:238:TYR:HA	1.62	0.81
2:D:89:ILE:O	2:D:106:THR:OG1	1.98	0.81
4:H:35:SER:HB2	4:H:163:MET:HE3	1.61	0.81
7:L:166:GLN:OE1	7:L:169:ARG:NH1	2.12	0.81
12:Y:279:GLU:HG3	12:Y:296:VAL:HG21	1.63	0.81
15:b:33:VAL:HA	15:b:36:VAL:HG22	1.62	0.81
17:d:223:ASN:HB3	17:d:226:ILE:HD12	1.61	0.81
18:f:332:ALA:HA	18:f:335:ARG:HE	1.45	0.81
19:g:130:VAL:HG22	19:g:154:MET:O	1.79	0.81
19:g:132:ASN:O	19:g:134:LYS:NZ	2.12	0.81
27:U:259:GLN:NE2	27:U:487:GLY:O	2.10	0.81
9:V:358:MET:HE3	9:V:359:PRO:CD	2.09	0.81
14:a:118:ILE:O	14:a:122:LYS:HB3	1.80	0.81
14:a:280:MET:SD	14:a:296:ILE:HG12	2.20	0.81
9:V:167:LEU:O	9:V:171:VAL:HG23	1.80	0.81
10:W:106:GLN:HA	10:W:109:CYS:SG	2.20	0.81
18:f:683:GLU:HB2	18:f:684:PRO:HD2	1.62	0.81
22:A:426:THR:HG22	22:A:430:MET:HE3	1.63	0.81
23:B:259:TYR:HB2	23:B:262:ASP:HB2	1.63	0.81
27:U:103:LYS:O	27:U:107:HIS:N	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:90:LEU:HD11	5:I:136:TYR:HE2	1.42	0.81
7:L:125:ARG:NH1	26:K:125:GLU:HA	1.96	0.81
9:V:196:SER:HA	9:V:234:ARG:HH12	1.44	0.81
14:a:34:TRP:CE3	14:a:70:ARG:HG3	2.16	0.81
14:a:177:LEU:HD23	14:a:200:LEU:HD21	1.62	0.81
23:B:257:GLN:HB2	23:B:262:ASP:HB3	1.63	0.81
2:D:275:PHE:HZ	24:E:251:ARG:HH12	1.29	0.81
9:V:67:LEU:HA	9:V:70:VAL:HG12	1.63	0.81
9:V:330:LYS:NZ	9:V:389:ASP:OD2	2.13	0.81
11:X:54:GLY:HA2	11:X:66:LEU:HD11	1.62	0.81
25:F:225:MET:HA	25:F:352:ILE:HG22	1.61	0.81
27:U:567:ILE:HD13	27:U:586:VAL:HG22	1.63	0.81
1:C:35:VAL:HG12	2:D:51:LEU:HB2	1.62	0.81
1:C:161:ILE:HD11	1:C:292:ILE:HD12	1.63	0.81
3:G:118:ILE:CD1	3:G:138:MET:HE1	2.08	0.81
4:H:135:LEU:CD1	4:H:163:MET:HE2	2.03	0.81
9:V:175:MET:CB	9:V:184:ALA:HB2	2.11	0.81
9:V:212:TYR:O	9:V:216:ARG:N	2.12	0.81
14:a:18:GLN:HB2	14:a:19:PRO:HD3	1.60	0.81
18:f:788:MET:CE	18:f:793:VAL:HG21	2.11	0.81
2:D:309:MET:HE3	2:D:327:LEU:HD21	1.63	0.81
5:I:40:ASN:ND2	5:I:182:GLY:O	2.14	0.81
6:J:64:ALA:HB2	6:J:217:LEU:HD22	1.62	0.81
17:d:172:LYS:NZ	17:d:211:GLU:OE2	2.13	0.81
19:g:112:LEU:CB	19:g:142:LEU:HD11	2.11	0.81
24:E:33:LEU:HD11	25:F:65:GLU:HB2	1.63	0.81
9:V:463:MET:HA	9:V:463:MET:HE2	1.63	0.81
10:W:105:VAL:HG21	10:W:138:VAL:HG21	1.59	0.81
17:d:94:MET:HB2	17:d:119:LEU:HD21	1.63	0.81
17:d:276:GLU:OE2	17:d:308:TRP:NE1	2.14	0.81
25:F:424:ILE:O	25:F:428:GLN:NE2	2.13	0.81
3:G:80:MET:HE2	3:G:91:VAL:HG23	1.62	0.80
10:W:346:GLU:HB2	10:W:350:ARG:NH2	1.96	0.80
18:f:670:MET:CE	23:B:68:ILE:HG23	2.10	0.80
23:B:278:ALA:HB1	23:B:279:PRO:CD	2.11	0.80
24:E:142:ILE:O	24:E:146:ARG:HG2	1.82	0.80
25:F:226:TYR:HB3	25:F:335:VAL:CG1	2.10	0.80
1:C:93:GLY:HA3	23:B:126:SER:HB3	1.63	0.80
10:W:55:ARG:NH1	10:W:93:ARG:HB3	1.96	0.80
18:f:564:LEU:HA	18:f:567:LEU:HD21	1.63	0.80
18:f:679:LEU:HG	18:f:690:VAL:HG11	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:88:GLN:NE2	22:A:88:GLN:O	2.15	0.80
2:D:361:GLU:HA	2:D:364:VAL:HG22	1.63	0.80
6:J:171:PHE:HE2	6:J:194:ALA:HA	1.45	0.80
9:V:182:LYS:HA	9:V:185:GLN:HB2	1.64	0.80
10:W:34:LEU:HB3	10:W:39:ARG:HD3	1.62	0.80
14:a:123:LEU:HD22	14:a:158:LEU:HD13	1.61	0.80
18:f:433:LEU:HB2	18:f:444:ALA:CB	2.11	0.80
5:I:72:MET:SD	5:I:138:GLY:HA3	2.21	0.80
6:J:61:LYS:HE2	6:J:73:PHE:O	1.80	0.80
10:W:211:THR:HA	10:W:214:PHE:HE2	1.44	0.80
13:Z:67:VAL:CG2	15:b:91:ARG:HD3	2.12	0.80
14:a:58:LYS:NZ	14:a:83:VAL:HG13	1.97	0.80
18:f:433:LEU:HD13	18:f:441:LYS:HA	1.64	0.80
25:F:172:VAL:HG12	25:F:274:LEU:CD2	2.12	0.80
26:K:91:LYS:O	26:K:91:LYS:NZ	2.15	0.80
8:M:77:VAL:HG11	8:M:84:ALA:HB1	1.62	0.80
9:V:212:TYR:HD1	9:V:253:LEU:HD11	1.44	0.80
19:g:87:VAL:HG23	19:g:153:ALA:HB3	1.62	0.80
25:F:188:ILE:HD13	25:F:236:LEU:HA	1.61	0.80
27:U:137:MET:SD	27:U:140:ARG:NH1	2.54	0.80
27:U:810:THR:HG21	27:U:873:PRO:CG	2.10	0.80
1:C:33:LEU:HD12	9:V:201:ARG:HG2	1.62	0.80
4:H:49:GLU:HA	4:H:208:ILE:HD13	1.63	0.80
9:V:469:THR:HG22	9:V:470:ARG:H	1.47	0.80
10:W:102:ALA:O	10:W:105:VAL:HG12	1.82	0.80
10:W:109:CYS:HA	10:W:112:VAL:CG2	2.11	0.80
12:Y:268:TYR:OH	12:Y:306:GLN:HG2	1.80	0.80
14:a:61:GLU:HA	14:a:64:ILE:HG22	1.64	0.80
18:f:208:LEU:CD1	18:f:217:LEU:HD13	2.11	0.80
26:K:74:ILE:HD11	26:K:109:VAL:HG23	1.63	0.80
26:K:84:ASP:OD2	26:K:135:ARG:NH1	2.12	0.80
9:V:411:SER:OG	9:V:447:ILE:HD12	1.82	0.80
11:X:89:VAL:O	11:X:93:LEU:N	2.12	0.80
14:a:342:ASP:HB3	14:a:345:GLN:HG3	1.64	0.80
15:b:106:LYS:HE3	15:b:107:MET:N	1.96	0.80
24:E:277:MET:HE1	24:E:295:LEU:CD1	2.11	0.80
27:U:243:LEU:CD2	27:U:913:ILE:HD12	2.10	0.80
7:L:45:VAL:HG21	7:L:188:VAL:HG23	1.62	0.80
9:V:72:LEU:HD12	9:V:120:PHE:HE1	1.46	0.80
13:Z:227:ILE:HD11	14:a:346:ILE:CG1	2.12	0.80
14:a:160:SER:HA	14:a:163:TYR:HB3	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:123:LEU:HD22	17:d:144:ALA:HB2	1.62	0.80
18:f:726:ILE:HD11	18:f:748:LEU:HD13	1.61	0.80
23:B:295:TYR:CE1	23:B:297:SER:HB2	2.17	0.80
23:B:434:THR:HB	23:B:435:PRO:HD2	1.64	0.80
24:E:165:ILE:HG23	24:E:166:PRO:HD2	1.63	0.80
27:U:69:TYR:CE1	27:U:99:THR:HG21	2.17	0.80
27:U:347:ASN:HB3	27:U:813:TYR:CE2	2.15	0.80
3:G:118:ILE:HD13	3:G:138:MET:CE	2.11	0.80
9:V:75:ILE:O	9:V:79:VAL:HG23	1.80	0.80
9:V:108:LEU:HD11	9:V:177:ASN:HD22	1.46	0.80
9:V:446:VAL:O	9:V:447:ILE:HD13	1.82	0.80
19:g:167:LYS:O	19:g:171:LEU:HG	1.82	0.80
27:U:649:ARG:HD2	27:U:678:ASP:OD2	1.81	0.80
10:W:409:LEU:CD2	11:X:384:VAL:HG11	2.09	0.80
12:Y:146:ARG:NH1	12:Y:183:TYR:OH	2.15	0.80
14:a:156:TYR:HD2	14:a:179:PHE:HB2	1.47	0.80
19:g:165:ALA:HA	19:g:168:ASN:H	1.45	0.80
22:A:114:ASN:OD1	22:A:120:LYS:HG2	1.82	0.80
27:U:658:ILE:HD11	27:U:767:THR:HG21	1.64	0.80
11:X:344:ARG:HG2	11:X:386:ILE:CD1	2.11	0.79
18:f:562:LEU:HD21	18:f:576:ILE:HG21	1.64	0.79
22:A:153:LEU:CD2	23:B:122:ILE:HD11	2.12	0.79
25:F:94:ILE:HG13	25:F:125:LYS:HB2	1.64	0.79
1:C:45:LEU:HB3	2:D:61:ILE:HG12	1.64	0.79
4:H:39:LYS:HZ3	4:H:144:PRO:HG2	1.48	0.79
6:J:83:VAL:HG11	6:J:129:ILE:CD1	2.13	0.79
19:g:158:LEU:HD23	19:g:165:ALA:CB	2.12	0.79
27:U:532:MET:HB3	27:U:552:ILE:HG22	1.64	0.79
5:I:138:GLY:HA2	5:I:216:LEU:CD1	2.12	0.79
14:a:192:GLU:OE2	14:a:196:ARG:NH1	2.15	0.79
23:B:414:VAL:HG23	23:B:418:ASP:HB2	1.64	0.79
25:F:224:LEU:HD23	25:F:343:LEU:HD21	1.63	0.79
27:U:241:ASN:HD21	27:U:244:MET:HB2	1.47	0.79
2:D:85:ILE:HD11	24:E:68:LYS:HE2	1.62	0.79
3:G:162:GLY:O	4:H:58:ASP:N	2.14	0.79
4:H:139:TRP:HZ3	4:H:144:PRO:HD3	1.46	0.79
16:c:284:LEU:O	16:c:286:GLU:N	2.15	0.79
18:f:458:GLU:O	19:g:133:LYS:NZ	2.14	0.79
24:E:235:ILE:HD11	24:E:277:MET:HB3	0.80	0.79
27:U:537:GLN:OE1	27:U:537:GLN:N	2.13	0.79
9:V:288:TYR:O	9:V:292:THR:HG22	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z:145:HIS:CE1	13:Z:151:THR:HA	2.18	0.79
27:U:872:GLU:HG3	27:U:873:PRO:O	1.81	0.79
9:V:224:LEU:HD21	9:V:257:ASN:HA	1.64	0.79
9:V:472:PRO:HB2	13:Z:254:ASN:OD1	1.82	0.79
14:a:155:PHE:O	14:a:159:SER:N	2.12	0.79
18:f:91:SER:HA	23:B:410:ARG:O	1.81	0.79
18:f:114:ALA:HB3	18:f:118:ASN:HB2	1.65	0.79
18:f:831:VAL:HG13	18:f:871:PRO:CG	2.10	0.79
25:F:85:THR:HG22	25:F:86:LEU:H	1.48	0.79
27:U:97:VAL:O	27:U:101:ILE:HG23	1.83	0.79
2:D:179:GLU:O	2:D:191:TYR:OH	2.00	0.79
14:a:100:THR:O	14:a:103:LYS:HG2	1.83	0.79
17:d:128:PHE:O	17:d:129:LEU:HD23	1.81	0.79
18:f:271:MET:HE2	18:f:786:GLN:HB3	1.65	0.79
4:H:204:THR:HG22	4:H:205:GLU:OE2	1.83	0.79
5:I:100:GLN:HG2	5:I:101:TYR:CE1	2.17	0.79
10:W:373:ILE:HA	14:a:326:GLU:HB2	1.64	0.79
24:E:252:GLU:OE1	24:E:255:ARG:NH1	2.16	0.79
1:C:403:LYS:HD2	4:H:156:PHE:HD1	1.48	0.79
2:D:45:LYS:HB3	27:U:187:LEU:HD13	1.65	0.79
8:M:98:PHE:CG	8:M:106:ILE:HB	2.17	0.79
18:f:56:LEU:HD12	18:f:99:LEU:HD21	1.63	0.79
19:g:138:LEU:HD12	19:g:162:GLU:HG3	1.63	0.79
7:L:117:GLN:O	7:L:120:THR:HG22	1.82	0.79
15:b:79:GLN:OE1	15:b:81:LYS:HE3	1.83	0.79
15:b:141:ILE:HD12	15:b:183:LEU:HD23	1.64	0.79
9:V:259:LEU:HG	9:V:264:TYR:HE1	1.47	0.78
12:Y:77:ASN:HA	12:Y:110:TYR:OH	1.83	0.78
22:A:334:PRO:HG3	25:F:395:GLN:HA	1.65	0.78
24:E:235:ILE:HD12	24:E:277:MET:CB	2.10	0.78
24:E:255:ARG:HA	24:E:258:MET:HE3	1.64	0.78
3:G:211:LYS:HG2	3:G:212:PRO:CD	2.13	0.78
4:H:205:GLU:OE2	4:H:205:GLU:N	2.15	0.78
12:Y:245:GLU:OE1	12:Y:245:GLU:N	2.16	0.78
12:Y:316:LEU:CD2	12:Y:327:VAL:HG13	2.14	0.78
18:f:840:LEU:HG	18:f:842:VAL:HG23	1.64	0.78
19:g:108:THR:HA	19:g:141:THR:HA	1.65	0.78
24:E:361:PHE:CE1	24:E:366:ASP:HB3	2.17	0.78
26:K:31:ILE:CD1	26:K:140:ALA:HB3	2.13	0.78
2:D:274:ARG:NE	2:D:318:ASP:OD2	2.17	0.78
6:J:36:ARG:HD3	6:J:157:LYS:HA	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:61:GLU:HA	9:V:64:GLN:HB3	1.64	0.78
9:V:69:THR:O	9:V:73:GLU:N	2.15	0.78
13:Z:21:ASP:O	13:Z:25:ARG:HG3	1.84	0.78
18:f:573:ILE:HG13	18:f:599:ALA:CB	2.11	0.78
18:f:733:GLY:HA3	18:f:741:LEU:HD23	1.65	0.78
22:A:279:ALA:O	23:B:307:ARG:NH1	2.15	0.78
2:D:130:VAL:HG12	2:D:142:VAL:HA	1.64	0.78
2:D:368:ASP:OD2	2:D:407:ILE:HD13	1.82	0.78
6:J:56:GLU:OE1	6:J:56:GLU:N	2.15	0.78
6:J:71:MET:HE3	6:J:131:ALA:CB	2.12	0.78
6:J:145:TYR:CE1	6:J:155:ALA:HB2	2.18	0.78
9:V:72:LEU:O	9:V:76:LYS:N	2.11	0.78
18:f:373:ALA:HB2	18:f:760:PHE:HD1	1.47	0.78
18:f:429:ILE:C	19:g:172:GLU:HB3	2.07	0.78
18:f:535:THR:OG1	18:f:565:ASN:OD1	2.01	0.78
18:f:597:VAL:CG2	18:f:656:GLY:HA2	2.12	0.78
9:V:495:ARG:HA	9:V:495:ARG:NE	1.96	0.78
10:W:235:GLN:HA	10:W:243:ILE:HD11	1.64	0.78
12:Y:181:LYS:HD2	12:Y:204:THR:HG23	1.66	0.78
14:a:59:LEU:O	14:a:63:PHE:N	2.11	0.78
17:d:283:LEU:HD13	17:d:315:TYR:HE1	1.47	0.78
2:D:267:ILE:HG12	2:D:309:MET:SD	2.23	0.78
4:H:86:LEU:HD21	4:H:118:MET:SD	2.24	0.78
10:W:435:LEU:HG	13:Z:233:VAL:HG22	1.66	0.78
12:Y:112:CYS:SG	12:Y:147:ILE:HD11	2.23	0.78
14:a:73:PRO:HA	14:a:76:LEU:HB3	1.65	0.78
18:f:718:ASP:HB3	18:f:721:VAL:HG12	1.66	0.78
19:g:160:GLN:OE1	19:g:168:ASN:ND2	2.16	0.78
22:A:364:VAL:CG2	22:A:368:ILE:HG13	2.14	0.78
24:E:310:LEU:O	24:E:314:LYS:HG2	1.84	0.78
25:F:270:ASP:O	25:F:274:LEU:N	2.15	0.78
1:C:113:ARG:HD3	1:C:130:LYS:HB2	1.66	0.78
3:G:211:LYS:NZ	3:G:213:SER:OG	2.14	0.78
9:V:213:TYR:O	9:V:217:VAL:N	2.15	0.78
14:a:25:LEU:HD22	14:a:37:LEU:HD12	1.64	0.78
15:b:131:LEU:HD12	15:b:136:VAL:HB	1.64	0.78
16:c:106:GLU:N	16:c:106:GLU:OE2	2.17	0.78
17:d:139:GLN:O	17:d:143:LEU:HG	1.83	0.78
18:f:231:LEU:HG	18:f:853:VAL:HG22	1.63	0.78
18:f:266:LEU:HD22	18:f:294:MET:HB2	1.63	0.78
18:f:456:ARG:NH2	18:f:492:SER:HA	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:703:ARG:HG2	18:f:705:ASN:OD1	1.83	0.78
19:g:90:PRO:HB2	19:g:157:GLU:OE2	1.83	0.78
3:G:14:THR:OG1	3:G:129:ALA:HB2	1.84	0.78
5:I:137:ILE:HG22	5:I:147:LEU:CD1	2.13	0.78
7:L:26:MET:HA	7:L:26:MET:HE2	1.66	0.78
10:W:31:CYS:CB	10:W:43:VAL:HG13	2.13	0.78
10:W:210:ASN:HD21	10:W:212:LYS:HB3	1.48	0.78
12:Y:336:ARG:HH12	28:e:44:ASP:HB3	1.47	0.78
7:L:66:VAL:HG21	7:L:72:ILE:HG23	1.65	0.78
19:g:98:LYS:HG2	19:g:98:LYS:O	1.82	0.78
19:g:109:GLY:HA3	19:g:138:LEU:HA	1.64	0.78
24:E:289:LEU:HD22	24:E:295:LEU:HD12	1.66	0.78
27:U:421:GLN:O	27:U:425:THR:HG23	1.84	0.78
27:U:481:LEU:HD23	27:U:497:LEU:HD21	1.65	0.78
5:I:137:ILE:HG22	5:I:147:LEU:HD13	1.64	0.78
8:M:40:ARG:CB	8:M:45:VAL:HG22	2.14	0.78
11:X:44:GLN:NE2	11:X:48:GLN:OE1	2.16	0.78
12:Y:51:ALA:HB2	12:Y:73:MET:HG2	1.65	0.78
13:Z:142:GLU:OE1	13:Z:153:LYS:HA	1.84	0.78
14:a:12:GLN:HG2	14:a:18:GLN:HB3	1.65	0.78
14:a:81:LEU:CA	14:a:84:VAL:HG12	2.12	0.78
14:a:94:LEU:HD11	14:a:118:ILE:HB	1.64	0.78
18:f:430:ASP:CB	19:g:169:PHE:HA	2.14	0.78
27:U:587:ALA:HB2	27:U:621:SER:OG	1.83	0.78
4:H:139:TRP:CD1	4:H:215:GLU:HA	2.18	0.77
9:V:159:LEU:HD22	9:V:163:VAL:CG2	2.14	0.77
9:V:452:ASN:HA	17:d:280:GLU:OE1	1.83	0.77
11:X:319:ILE:O	11:X:323:LEU:HB2	1.83	0.77
15:b:18:ASN:O	15:b:25:ARG:HD2	1.84	0.77
19:g:89:LEU:HD12	19:g:99:ASN:ND2	1.97	0.77
19:g:156:LEU:HB3	19:g:158:LEU:CD1	2.14	0.77
22:A:195:LEU:HD11	22:A:316:LYS:HG3	1.66	0.77
23:B:223:ILE:HB	23:B:347:ILE:HG21	1.65	0.77
25:F:202:ILE:HD12	25:F:327:LYS:HB3	1.66	0.77
26:K:76:CYS:SG	26:K:89:ILE:HD11	2.23	0.77
1:C:350:LEU:HD23	1:C:387:VAL:HG11	1.65	0.77
4:H:36:VAL:HG11	4:H:194:THR:HG22	1.66	0.77
4:H:203:MET:O	4:H:230:LEU:HD13	1.84	0.77
6:J:23:GLN:HE22	6:J:150:SER:HB3	1.48	0.77
9:V:457:TYR:CE1	9:V:459:GLN:HB2	2.19	0.77
14:a:51:ALA:HB3	14:a:86:GLN:HG2	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:363:MET:HE3	16:c:307:VAL:HG11	1.66	0.77
23:B:103:ARG:HA	23:B:160:ILE:HD13	1.66	0.77
23:B:121:ALA:HB3	23:B:135:ILE:HD11	1.65	0.77
24:E:149:ILE:HD13	24:E:276:ILE:CD1	2.11	0.77
25:F:223:VAL:CG2	25:F:329:ILE:HG12	2.14	0.77
2:D:383:GLY:HA3	24:E:164:ILE:HD12	1.67	0.77
18:f:430:ASP:HB3	19:g:169:PHE:HA	1.66	0.77
19:g:158:LEU:HD23	19:g:165:ALA:HB3	1.66	0.77
2:D:391:ARG:NH1	2:D:395:LEU:HD12	2.00	0.77
6:J:95:ARG:NH1	6:J:101:PRO:HB3	1.99	0.77
14:a:4:VAL:HB	14:a:5:PRO:HD3	1.67	0.77
14:a:180:LEU:CD1	14:a:221:VAL:HG21	2.12	0.77
24:E:122:MET:CE	25:F:344:ARG:CZ	2.61	0.77
2:D:45:LYS:HG2	27:U:187:LEU:HB3	1.67	0.77
6:J:70:CYS:HB3	6:J:217:LEU:HD21	1.67	0.77
7:L:32:GLY:O	7:L:163:ALA:N	2.16	0.77
9:V:298:ILE:HA	9:V:397:ARG:HH22	1.49	0.77
10:W:393:LEU:O	10:W:397:VAL:HG23	1.84	0.77
11:X:160:MET:HG2	11:X:161:ASP:H	1.48	0.77
15:b:25:ARG:NH2	15:b:114:GLY:O	2.16	0.77
16:c:181:LEU:HD21	27:U:725:MET:HE2	1.66	0.77
19:g:92:ARG:HB3	19:g:157:GLU:CD	2.09	0.77
23:B:313:LEU:HD23	23:B:313:LEU:O	1.84	0.77
24:E:235:ILE:HD12	24:E:277:MET:HB2	1.65	0.77
27:U:203:LYS:O	27:U:207:ASN:ND2	2.17	0.77
3:G:80:MET:HE1	3:G:138:MET:HG3	1.66	0.77
9:V:276:PHE:HD1	9:V:277:PRO:HD2	1.48	0.77
13:Z:143:GLU:HG3	13:Z:145:HIS:H	1.50	0.77
13:Z:256:GLN:O	13:Z:259:VAL:HG12	1.85	0.77
19:g:115:LYS:NZ	19:g:142:LEU:HD13	1.99	0.77
25:F:322:PRO:O	25:F:323:ASN:HB3	1.85	0.77
1:C:292:ILE:O	1:C:292:ILE:HG22	1.84	0.77
4:H:65:VAL:N	4:H:209:GLU:OE1	2.13	0.77
5:I:174:MET:CE	5:I:195:LYS:HE3	2.14	0.77
9:V:224:LEU:O	9:V:257:ASN:ND2	2.17	0.77
15:b:107:MET:HA	15:b:107:MET:CE	2.12	0.77
15:b:113:VAL:O	15:b:142:ASN:HA	1.84	0.77
17:d:120:LYS:O	17:d:124:LEU:N	2.17	0.77
17:d:145:ARG:NH2	17:d:185:SER:OG	2.18	0.77
23:B:372:MET:HE2	23:B:414:VAL:HG11	1.65	0.77
3:G:163:PHE:CD2	3:G:166:THR:HB	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:64:GLN:O	9:V:68:ASP:N	2.16	0.77
10:W:451:MET:HE1	13:Z:99:PRO:O	1.84	0.77
17:d:342:TYR:O	17:d:346:LEU:HD12	1.83	0.77
24:E:145:LEU:HG	24:E:149:ILE:HD12	1.67	0.77
26:K:100:TRP:O	26:K:104:ASN:N	2.18	0.77
26:K:186:HIS:N	26:K:189:MET:HE2	1.98	0.77
1:C:406:LYS:OXT	5:I:64:LYS:NZ	2.18	0.77
2:D:231:VAL:HG11	24:E:262:ASN:ND2	2.00	0.77
2:D:296:MET:HE1	2:D:309:MET:CE	2.15	0.77
7:L:196:ARG:NH1	7:L:239:ARG:HG3	1.98	0.77
8:M:65:ARG:HH22	8:M:78:ALA:HA	1.49	0.77
8:M:173:LYS:O	8:M:177:GLU:HG3	1.85	0.77
9:V:172:VAL:O	9:V:176:MET:HG3	1.85	0.77
13:Z:126:VAL:HA	16:c:216:MET:HE1	1.64	0.77
14:a:189:PRO:HG2	14:a:192:GLU:HB2	1.64	0.77
14:a:216:LEU:HD13	14:a:237:LEU:HG	1.67	0.77
24:E:352:MET:HE1	24:E:355:ILE:HD13	1.67	0.77
27:U:554:LEU:HD23	27:U:588:MET:HG3	1.65	0.77
1:C:258:ARG:HD3	1:C:273:MET:CE	2.14	0.77
9:V:219:GLU:OE2	9:V:256:ARG:NE	2.18	0.77
10:W:82:LEU:O	10:W:86:ASN:ND2	2.14	0.77
14:a:64:ILE:O	14:a:68:GLU:HB3	1.84	0.77
18:f:520:LEU:HD11	18:f:798:THR:HB	1.65	0.77
18:f:814:SER:O	18:f:817:VAL:HG12	1.85	0.77
22:A:161:VAL:HG13	22:A:260:LEU:HD12	1.67	0.77
1:C:21:ARG:HA	1:C:24:TYR:CD2	2.20	0.76
9:V:120:PHE:CE2	9:V:149:PRO:HG2	2.20	0.76
10:W:17:GLU:N	10:W:58:SER:O	2.18	0.76
14:a:81:LEU:HA	14:a:84:VAL:CG1	2.13	0.76
17:d:226:ILE:O	17:d:230:VAL:HG12	1.85	0.76
19:g:170:GLN:HA	19:g:173:GLU:HB3	1.66	0.76
25:F:248:PHE:HD1	25:F:282:ILE:HD11	1.50	0.76
27:U:873:PRO:HB2	27:U:876:GLN:NE2	2.00	0.76
1:C:193:GLY:HA3	2:D:323:ARG:HD2	1.66	0.76
6:J:91:CYS:HA	6:J:102:VAL:HG21	1.67	0.76
6:J:133:ILE:HD13	6:J:147:THR:HG23	1.66	0.76
14:a:74:LEU:O	14:a:78:GLU:N	2.14	0.76
14:a:97:LEU:HD22	14:a:117:ALA:HB1	1.68	0.76
14:a:123:LEU:HD22	14:a:158:LEU:CD1	2.15	0.76
17:d:138:LYS:O	17:d:142:ILE:HG12	1.85	0.76
18:f:245:ASN:O	18:f:249:LEU:HG	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:E:47:LEU:HA	24:E:50:LEU:HD12	1.67	0.76
26:K:28:ILE:HG13	26:K:158:PRO:HG2	1.65	0.76
2:D:391:ARG:HH12	2:D:397:LYS:HD2	1.50	0.76
10:W:23:THR:HA	10:W:26:GLN:HG2	1.67	0.76
14:a:321:LYS:HD2	14:a:336:VAL:HG11	1.65	0.76
15:b:36:VAL:O	15:b:40:LYS:HG2	1.86	0.76
15:b:124:LEU:HD22	15:b:152:LYS:HB2	1.66	0.76
17:d:237:MET:O	17:d:237:MET:HE3	1.86	0.76
18:f:433:LEU:HB2	18:f:444:ALA:HB3	1.66	0.76
27:U:611:ASN:O	27:U:614:VAL:HG12	1.85	0.76
1:C:161:ILE:HG21	1:C:199:LEU:HD21	1.67	0.76
11:X:211:ASP:HB3	11:X:235:ALA:HB2	1.66	0.76
14:a:40:GLN:HG3	14:a:44:PHE:CD2	2.20	0.76
18:f:846:VAL:HG22	18:f:880:ALA:HA	1.67	0.76
19:g:132:ASN:CB	19:g:151:VAL:HG13	2.14	0.76
23:B:425:ASN:HA	23:B:428:TYR:OH	1.85	0.76
25:F:406:ILE:HD13	25:F:422:GLU:HB3	1.66	0.76
27:U:363:SER:HG	27:U:365:CYS:HG	0.76	0.76
1:C:236:VAL:HG22	1:C:239:ARG:HH22	1.49	0.76
16:c:123:SER:HB2	20:u:289:HIS:HE1	1.50	0.76
19:g:87:VAL:HG22	19:g:155:VAL:HG23	1.67	0.76
25:F:369:HIS:CD2	25:F:397:LYS:HB2	2.20	0.76
27:U:339:LEU:O	27:U:343:ILE:HG12	1.85	0.76
27:U:536:ALA:CB	27:U:578:LEU:HD21	2.13	0.76
27:U:583:MET:HE1	27:U:605:VAL:HB	1.67	0.76
13:Z:69:PHE:HZ	15:b:63:THR:HG23	1.50	0.76
13:Z:217:THR:HG23	13:Z:219:LYS:HG3	1.68	0.76
14:a:176:ALA:CB	14:a:200:LEU:HD13	2.15	0.76
14:a:293:PHE:HB3	14:a:329:LYS:CG	2.11	0.76
18:f:372:LEU:HD22	18:f:406:GLY:HA2	1.68	0.76
18:f:563:GLY:O	18:f:566:HIS:N	2.16	0.76
1:C:79:ALA:CB	22:A:65:ILE:HD13	2.15	0.76
4:H:69:THR:OG1	4:H:72:ILE:HD12	1.85	0.76
18:f:460:ASP:HB3	19:g:133:LYS:HB3	1.66	0.76
19:g:138:LEU:CD1	19:g:162:GLU:HG3	2.16	0.76
27:U:247:GLN:CG	27:U:913:ILE:HG12	2.14	0.76
27:U:719:ASP:OD1	27:U:720:LYS:N	2.19	0.76
1:C:24:TYR:CD1	27:U:153:ILE:HG13	2.21	0.76
3:G:155:ASP:OD1	3:G:159:TYR:N	2.18	0.76
5:I:108:GLU:O	5:I:112:THR:HG23	1.86	0.76
7:L:13:TRP:HB2	8:M:22:GLN:OE1	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:72:LEU:HD11	9:V:116:ALA:HB2	1.68	0.76
14:a:58:LYS:HZ2	14:a:83:VAL:HG13	1.50	0.76
19:g:112:LEU:HD13	19:g:142:LEU:HD11	1.67	0.76
22:A:113:ILE:CD1	22:A:142:VAL:HG11	2.15	0.76
25:F:90:VAL:HG23	25:F:164:LEU:HD12	1.67	0.76
25:F:225:MET:HG2	25:F:352:ILE:HG21	1.67	0.76
27:U:138:PHE:HA	27:U:141:CYS:SG	2.25	0.76
27:U:204:ILE:HA	27:U:207:ASN:HD21	1.48	0.76
3:G:235:ILE:H	3:G:235:ILE:HD12	1.51	0.76
10:W:211:THR:HA	10:W:214:PHE:CE2	2.20	0.76
17:d:283:LEU:HG	17:d:286:GLU:H	1.50	0.76
18:f:99:LEU:C	18:f:101:PRO:HD3	2.11	0.76
18:f:398:TRP:O	18:f:401:LYS:HG2	1.85	0.76
18:f:701:ASN:HD21	18:f:703:ARG:NH1	1.82	0.76
25:F:130:GLN:HB2	25:F:132:TYR:HE2	1.51	0.76
25:F:276:LYS:HE3	25:F:326:VAL:HG21	1.68	0.76
27:U:399:TRP:CH2	27:U:472:ILE:HG23	2.21	0.76
3:G:60:LEU:HD13	8:M:162:GLY:O	1.85	0.76
12:Y:48:ASN:HB2	12:Y:50:MET:HE2	1.68	0.76
14:a:96:PHE:HA	14:a:99:LYS:HD3	1.68	0.76
17:d:142:ILE:O	17:d:146:ASP:N	2.14	0.76
18:f:418:LEU:HD12	18:f:421:ASP:OD2	1.86	0.76
18:f:499:THR:HA	18:f:502:LEU:HG	1.68	0.76
25:F:277:GLU:OE1	25:F:278:LYS:NZ	2.17	0.76
26:K:39:GLY:O	26:K:167:ALA:HA	1.85	0.76
10:W:105:VAL:HG11	10:W:138:VAL:CG2	2.16	0.75
10:W:263:TRP:HZ3	10:W:267:LEU:HD12	1.50	0.75
10:W:268:LYS:HE3	10:W:299:ILE:CG2	2.16	0.75
13:Z:78:MET:HE2	16:c:98:MET:CE	2.16	0.75
15:b:33:VAL:HA	15:b:36:VAL:CG2	2.16	0.75
19:g:136:LEU:HD22	19:g:147:VAL:HG21	1.69	0.75
24:E:83:CYS:HB2	24:E:87:LEU:HD23	1.66	0.75
25:F:284:PHE:HA	25:F:329:ILE:O	1.86	0.75
1:C:134:LEU:O	1:C:134:LEU:HD23	1.86	0.75
2:D:181:VAL:HG21	2:D:308:ILE:HD11	1.67	0.75
3:G:123:GLN:HE22	3:G:127:GLN:HE21	1.34	0.75
3:G:141:ILE:HD11	3:G:227:PHE:HE1	1.52	0.75
5:I:140:ASP:OD2	5:I:146:GLN:NE2	2.19	0.75
12:Y:51:ALA:HB3	12:Y:52:PRO:HD3	1.69	0.75
14:a:7:PHE:HE2	14:a:60:TYR:HA	1.51	0.75
14:a:231:GLN:O	14:a:231:GLN:HG2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:164:GLY:HA3	22:A:40:THR:HG21	1.66	0.75
18:f:267:ARG:CZ	18:f:893:ILE:HB	2.16	0.75
18:f:413:SER:HA	18:f:416:MET:HE2	1.68	0.75
18:f:783:SER:N	18:f:895:GLU:OE1	2.19	0.75
19:g:90:PRO:HG3	19:g:155:VAL:O	1.85	0.75
19:g:100:LEU:H	19:g:100:LEU:HD22	1.51	0.75
19:g:112:LEU:CD1	19:g:142:LEU:HD21	2.16	0.75
26:K:50:VAL:HG11	26:K:66:LYS:HB3	1.68	0.75
27:U:36:ALA:O	27:U:39:SER:OG	2.00	0.75
27:U:599:ILE:HD12	27:U:626:LEU:HD11	1.68	0.75
27:U:697:GLN:OE1	27:U:786:THR:HG21	1.86	0.75
27:U:717:ILE:CD1	27:U:731:ILE:HD11	2.15	0.75
4:H:135:LEU:HD12	4:H:163:MET:CE	2.04	0.75
5:I:161:ALA:CB	5:I:175:LEU:HD23	2.15	0.75
9:V:115:LYS:O	9:V:119:GLY:N	2.20	0.75
12:Y:152:MET:HA	12:Y:152:MET:HE2	1.65	0.75
13:Z:69:PHE:CD2	15:b:96:ALA:HA	2.22	0.75
14:a:41:VAL:HG12	14:a:79:ILE:HD12	1.68	0.75
18:f:391:LEU:HG	18:f:414:LEU:HG	1.69	0.75
3:G:143:ILE:HG12	3:G:220:VAL:HG22	1.67	0.75
7:L:26:MET:CE	7:L:149:PRO:HD2	2.15	0.75
8:M:49:VAL:HG21	8:M:65:ARG:HE	1.50	0.75
8:M:196:ILE:HA	8:M:199:ILE:CD1	2.16	0.75
10:W:90:LEU:O	10:W:93:ARG:HG3	1.86	0.75
10:W:377:ARG:HE	10:W:381:LEU:HD21	1.50	0.75
14:a:25:LEU:HA	14:a:28:LEU:HD23	1.66	0.75
15:b:33:VAL:HG11	15:b:75:LEU:HD11	1.68	0.75
17:d:102:TRP:HA	17:d:107:PRO:HB3	1.68	0.75
18:f:96:LEU:CD2	18:f:129:LEU:HA	2.17	0.75
19:g:87:VAL:HG11	19:g:101:LEU:CB	2.15	0.75
19:g:116:ILE:HD13	19:g:129:ILE:HG13	1.69	0.75
24:E:50:LEU:HG	25:F:139:LEU:HD21	1.67	0.75
1:C:214:VAL:O	1:C:248:MET:HA	1.86	0.75
9:V:62:HIS:HA	9:V:65:ARG:CD	2.16	0.75
18:f:426:LEU:HD12	19:g:169:PHE:CZ	2.21	0.75
19:g:165:ALA:HA	19:g:168:ASN:N	2.01	0.75
22:A:219:GLY:CA	23:B:343:ARG:HD2	2.16	0.75
3:G:10:ASP:O	3:G:24:GLN:HG2	1.87	0.75
9:V:467:TYR:CE2	12:Y:362:LYS:HD2	2.22	0.75
11:X:171:LEU:CD2	11:X:210:LEU:HD23	2.17	0.75
18:f:325:GLN:NE2	18:f:328:SER:HG	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:591:ALA:O	18:f:595:VAL:HG22	1.86	0.75
19:g:158:LEU:HB3	19:g:165:ALA:CB	2.17	0.75
23:B:66:GLU:CG	27:U:834:SER:HB3	2.17	0.75
24:E:87:LEU:HD21	24:E:92:LEU:CD1	2.13	0.75
25:F:178:ASP:HA	25:F:180:ARG:HH22	1.51	0.75
26:K:81:LEU:HD13	26:K:138:GLY:HA3	1.69	0.75
5:I:90:LEU:CG	5:I:114:LEU:HD22	2.15	0.75
7:L:74:ILE:HG22	7:L:132:LEU:HD21	1.67	0.75
8:M:50:GLU:HB3	8:M:197:ILE:HD11	1.67	0.75
10:W:135:LYS:HD3	10:W:137:TYR:CE2	2.22	0.75
11:X:334:ASN:OD1	11:X:337:ARG:NH2	2.18	0.75
12:Y:70:LEU:HD11	12:Y:74:LYS:HE3	1.68	0.75
14:a:80:ILE:HB	14:a:96:PHE:HE2	1.51	0.75
15:b:138:VAL:CG1	15:b:160:LEU:HD11	2.17	0.75
27:U:797:MET:HG3	27:U:880:ASN:OD1	1.87	0.75
5:I:229:LYS:N	5:I:232:GLU:OE2	2.18	0.75
9:V:236:ARG:O	9:V:240:LEU:HG	1.87	0.75
9:V:417:ILE:HD13	9:V:422:ILE:HG13	1.69	0.75
14:a:80:ILE:HB	14:a:96:PHE:CE2	2.22	0.75
14:a:195:GLU:O	14:a:199:THR:HG23	1.87	0.75
17:d:191:LEU:HA	17:d:194:LEU:HD13	1.69	0.75
24:E:351:GLY:O	24:E:355:ILE:HG13	1.86	0.75
2:D:323:ARG:HH12	2:D:326:ARG:HH12	1.35	0.75
7:L:171:TYR:HD1	7:L:172:LEU:HD23	1.52	0.75
9:V:213:TYR:HA	9:V:216:ARG:HB3	1.68	0.75
13:Z:246:VAL:HG22	17:d:330:ILE:HD11	1.68	0.75
14:a:114:CYS:HA	14:a:117:ALA:CB	2.17	0.75
15:b:131:LEU:HA	15:b:134:GLU:OE2	1.87	0.75
18:f:567:LEU:HB2	18:f:790:GLN:NE2	2.02	0.75
25:F:294:LYS:HA	25:F:339:ASP:OD1	1.87	0.75
26:K:91:LYS:HZ3	26:K:95:GLU:HG3	1.52	0.75
27:U:516:LEU:HD23	27:U:532:MET:HG3	1.69	0.75
1:C:403:LYS:HD2	4:H:156:PHE:CD1	2.22	0.74
5:I:32:GLY:CA	5:I:50:ARG:HD2	2.17	0.74
11:X:170:GLN:HE22	11:X:192:SER:HB3	1.52	0.74
13:Z:10:VAL:HG12	13:Z:161:GLU:OE2	1.87	0.74
13:Z:110:GLU:OE2	13:Z:153:LYS:NZ	2.17	0.74
14:a:335:TRP:NE1	14:a:337:GLN:O	2.19	0.74
15:b:25:ARG:HH12	15:b:145:GLU:H	1.35	0.74
15:b:161:ASN:HD21	15:b:168:SER:H	1.34	0.74
17:d:259:PHE:HA	17:d:262:ILE:HD12	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:294:ARG:HD3	23:B:310:LEU:CD1	2.16	0.74
26:K:42:THR:OG1	26:K:45:GLY:O	2.01	0.74
27:U:187:LEU:O	27:U:188:MET:HE2	1.87	0.74
3:G:131:MET:HE3	8:M:124:LEU:HD13	1.69	0.74
9:V:78:HIS:O	9:V:82:LEU:N	2.17	0.74
10:W:125:ILE:HG22	10:W:145:LEU:HD13	1.69	0.74
10:W:445:LEU:HD12	13:Z:226:ILE:HG13	1.70	0.74
14:a:131:THR:HG23	14:a:132:LYS:HD2	1.68	0.74
16:c:187:PRO:HB2	16:c:192:LEU:HD21	1.69	0.74
19:g:129:ILE:HB	19:g:136:LEU:CD1	2.17	0.74
24:E:313:LEU:O	24:E:317:ALA:N	2.19	0.74
1:C:351:MET:HE1	1:C:359:VAL:HG22	1.69	0.74
9:V:333:ILE:HD12	9:V:357:LEU:CD2	2.17	0.74
9:V:401:ASN:OD1	9:V:404:LYS:NZ	2.19	0.74
14:a:156:TYR:HA	14:a:159:SER:OG	1.87	0.74
14:a:220:PRO:O	14:a:224:SER:OG	2.02	0.74
15:b:94:HIS:NE2	15:b:134:GLU:OE1	2.20	0.74
19:g:104:ARG:O	19:g:115:LYS:HE3	1.87	0.74
24:E:101:ASP:OD1	24:E:102:MET:N	2.21	0.74
25:F:153:VAL:HG12	25:F:160:ILE:HA	1.69	0.74
25:F:197:GLU:HG2	25:F:352:ILE:HD11	1.69	0.74
27:U:568:GLU:OE2	27:U:601:ARG:NH2	2.20	0.74
1:C:308:PRO:HB3	23:B:397:ALA:HB2	1.67	0.74
2:D:355:SER:O	2:D:358:VAL:HG12	1.86	0.74
5:I:39:ALA:HA	5:I:184:MET:O	1.88	0.74
5:I:68:LEU:HD21	5:I:74:CYS:SG	2.27	0.74
10:W:121:LYS:O	10:W:125:ILE:HG12	1.88	0.74
10:W:193:CYS:SG	10:W:201:ARG:HG2	2.27	0.74
12:Y:11:LEU:HG	12:Y:179:ARG:HH11	1.52	0.74
13:Z:19:VAL:HG22	13:Z:95:TYR:CE1	2.22	0.74
14:a:153:SER:HB2	14:a:179:PHE:CD1	2.21	0.74
16:c:32:TYR:OH	27:U:542:GLU:OE2	2.04	0.74
27:U:838:LYS:HA	27:U:841:LYS:HD3	1.70	0.74
2:D:355:SER:HB2	2:D:393:ILE:CG2	2.17	0.74
9:V:81:GLN:HA	9:V:84:LYS:HB3	1.68	0.74
14:a:70:ARG:HH12	15:b:17:ARG:CD	2.01	0.74
18:f:45:LEU:HD22	18:f:50:LYS:HE2	1.68	0.74
25:F:206:MET:HG3	25:F:325:GLN:HE21	1.52	0.74
27:U:588:MET:HE1	27:U:760:VAL:CG1	2.16	0.74
1:C:132:ASP:OD2	1:C:229:ARG:NH1	2.18	0.74
3:G:208:ILE:HD12	24:E:306:GLU:OE1	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:L:189:LYS:HG2	7:L:236:LEU:HD12	1.70	0.74
9:V:139:MET:SD	9:V:139:MET:N	2.60	0.74
10:W:331:GLY:CA	10:W:337:ALA:HB2	2.18	0.74
13:Z:90:ARG:O	13:Z:92:VAL:HG13	1.88	0.74
15:b:8:VAL:O	15:b:51:LEU:HA	1.87	0.74
15:b:97:LEU:HD21	15:b:107:MET:HE2	1.68	0.74
18:f:115:PRO:O	18:f:119:LYS:HD2	1.88	0.74
19:g:115:LYS:HZ1	19:g:142:LEU:HD13	1.50	0.74
25:F:280:PRO:HA	25:F:325:GLN:HB3	1.69	0.74
5:I:155:ASN:OD1	6:J:77:THR:HB	1.87	0.74
9:V:188:SER:O	9:V:191:LEU:HB3	1.87	0.74
17:d:345:GLN:OE1	17:d:345:GLN:HA	1.87	0.74
18:f:422:VAL:HA	18:f:426:LEU:HD23	1.70	0.74
19:g:131:ILE:HA	19:g:153:ALA:HB2	1.70	0.74
19:g:161:SER:N	19:g:164:ASP:HB3	2.01	0.74
22:A:402:LYS:HE3	23:B:213:GLU:OE2	1.87	0.74
5:I:209:GLU:OE1	5:I:209:GLU:N	2.20	0.74
10:W:190:MET:HE1	10:W:206:SER:CA	2.17	0.74
11:X:373:LYS:HA	11:X:373:LYS:HZ3	1.51	0.74
14:a:215:GLU:HB3	14:a:219:HIS:HB2	1.70	0.74
18:f:658:ALA:HA	18:f:697:ILE:HD11	1.70	0.74
18:f:832:THR:HG23	18:f:870:THR:HG21	1.69	0.74
19:g:84:THR:O	19:g:150:ASN:HA	1.87	0.74
19:g:161:SER:O	19:g:165:ALA:N	2.21	0.74
23:B:233:THR:OG1	29:B:501:ATP:O2B	2.05	0.74
25:F:264:GLY:O	25:F:268:VAL:HG23	1.88	0.74
27:U:226:PRO:O	27:U:229:VAL:HG12	1.88	0.74
28:e:58:ALA:O	28:e:62:LYS:HG3	1.86	0.74
4:H:139:TRP:CE2	4:H:215:GLU:HG2	2.23	0.74
9:V:106:ARG:NH1	28:e:18:GLU:OE2	2.21	0.74
9:V:482:PHE:CZ	12:Y:381:GLN:HB2	2.22	0.74
10:W:244:CYS:HB2	10:W:273:TYR:HB3	1.68	0.74
11:X:109:LEU:O	11:X:112:GLU:HG2	1.87	0.74
18:f:395:GLY:O	18:f:399:LEU:HG	1.88	0.74
18:f:612:LEU:HD22	18:f:660:ILE:HD12	1.68	0.74
19:g:164:ASP:O	19:g:168:ASN:N	2.20	0.74
24:E:33:LEU:HD21	25:F:66:LEU:CA	2.17	0.74
25:F:233:LYS:HA	25:F:354:PHE:CE2	2.22	0.74
27:U:602:LEU:HD21	27:U:618:ALA:HA	1.70	0.74
7:L:125:ARG:HH11	7:L:125:ARG:HG3	1.53	0.74
9:V:64:GLN:NE2	9:V:109:ASN:OD1	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:73:VAL:O	11:X:77:LEU:HG	1.88	0.74
11:X:114:ILE:CD1	11:X:130:GLU:HG3	2.17	0.74
11:X:166:LEU:O	11:X:170:GLN:HB2	1.88	0.74
11:X:255:LEU:O	11:X:259:ILE:HG12	1.88	0.74
12:Y:22:LEU:CD1	12:Y:40:GLU:HB3	2.17	0.74
14:a:112:ILE:O	14:a:116:THR:HG23	1.88	0.74
18:f:62:ARG:HH12	18:f:74:ALA:HB2	1.52	0.74
18:f:411:ALA:HB3	18:f:443:GLY:HA3	1.70	0.74
18:f:848:GLN:HA	18:f:878:GLU:OE1	1.88	0.74
22:A:213:LEU:HD11	22:A:321:THR:CG2	2.18	0.74
1:C:314:LYS:NZ	23:B:429:LYS:HB3	2.02	0.73
5:I:21:VAL:CG1	23:B:438:LEU:HD21	2.17	0.73
6:J:83:VAL:HG11	6:J:129:ILE:HD13	1.70	0.73
9:V:67:LEU:HD12	9:V:107:ARG:HH11	1.53	0.73
14:a:115:LYS:CA	14:a:118:ILE:HG22	2.17	0.73
18:f:267:ARG:HH21	18:f:891:THR:HG21	1.52	0.73
19:g:112:LEU:HB2	19:g:142:LEU:CD1	2.17	0.73
3:G:72:ILE:HD12	3:G:78:CYS:HB3	1.69	0.73
14:a:81:LEU:O	14:a:85:ARG:N	2.15	0.73
14:a:159:SER:HB2	14:a:168:ASN:HD21	1.53	0.73
14:a:320:VAL:HG11	14:a:333:MET:HE1	1.69	0.73
17:d:282:ILE:HB	17:d:318:PHE:HE2	1.54	0.73
18:f:520:LEU:HD12	18:f:560:LEU:HD13	1.68	0.73
18:f:882:LEU:HD23	18:f:882:LEU:H	1.53	0.73
4:H:74:LEU:HD22	4:H:136:ILE:HG12	1.70	0.73
6:J:94:HIS:ND1	6:J:102:VAL:HG22	2.03	0.73
8:M:40:ARG:HB2	8:M:45:VAL:HG22	1.70	0.73
8:M:42:LYS:HE2	8:M:183:GLU:O	1.89	0.73
8:M:50:GLU:CB	8:M:197:ILE:HD11	2.17	0.73
11:X:118:LYS:HD2	11:X:126:ARG:HG3	1.69	0.73
12:Y:314:LEU:HD12	12:Y:314:LEU:O	1.88	0.73
14:a:124:ASN:O	14:a:125:ILE:HD13	1.87	0.73
14:a:307:VAL:O	14:a:311:VAL:HG12	1.88	0.73
18:f:466:LEU:CD1	18:f:481:SER:HA	2.18	0.73
27:U:188:MET:HE2	27:U:188:MET:HA	1.68	0.73
5:I:230:GLN:O	5:I:234:GLU:HG2	1.88	0.73
14:a:45:VAL:HG21	14:a:79:ILE:HG13	1.70	0.73
14:a:94:LEU:HD11	14:a:118:ILE:CD1	2.16	0.73
14:a:226:ARG:NH2	14:a:230:ARG:O	2.20	0.73
18:f:432:TYR:H	19:g:172:GLU:HB2	1.53	0.73
22:A:241:ILE:HD12	22:A:244:GLU:HG3	1.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:804:SER:H	27:U:874:ASN:C	1.97	0.73
1:C:399:MET:CE	1:C:402:LYS:HD2	2.18	0.73
3:G:38:THR:HG23	3:G:202:LEU:HD11	1.70	0.73
10:W:210:ASN:OD1	10:W:212:LYS:N	2.15	0.73
14:a:21:VAL:HA	14:a:44:PHE:CZ	2.23	0.73
14:a:92:VAL:O	14:a:96:PHE:N	2.17	0.73
18:f:267:ARG:NE	18:f:893:ILE:HD13	2.03	0.73
18:f:892:PRO:HG2	18:f:893:ILE:HD12	1.69	0.73
26:K:121:LEU:CD2	26:K:160:GLY:HA3	2.18	0.73
26:K:206:MET:HE1	26:K:215:ILE:HG21	1.70	0.73
27:U:115:ASN:HB3	27:U:123:LYS:HD3	1.70	0.73
27:U:127:ASP:OD2	27:U:130:LEU:N	2.18	0.73
1:C:207:THR:HG23	1:C:209:CYS:H	1.54	0.73
2:D:359:ASP:HB3	2:D:362:ASP:OD2	1.87	0.73
9:V:79:VAL:HG21	9:V:120:PHE:CE2	2.23	0.73
11:X:90:ARG:O	11:X:94:ASP:N	2.14	0.73
14:a:84:VAL:HA	14:a:87:MET:HG3	1.68	0.73
22:A:157:ILE:HD11	23:B:114:GLU:OE2	1.87	0.73
24:E:277:MET:HE2	24:E:295:LEU:HD13	0.75	0.73
25:F:254:PRO:CD	25:F:287:GLU:HB2	2.18	0.73
27:U:798:PRO:O	27:U:880:ASN:ND2	2.21	0.73
3:G:240:VAL:HA	10:W:94:ARG:HD3	1.70	0.73
7:L:125:ARG:NH1	26:K:124:GLY:O	2.22	0.73
9:V:71:THR:O	9:V:75:ILE:N	2.17	0.73
9:V:75:ILE:O	9:V:79:VAL:N	2.17	0.73
11:X:282:ARG:O	11:X:285:GLU:HG2	1.88	0.73
15:b:16:MET:C	15:b:25:ARG:HD3	2.13	0.73
15:b:97:LEU:CD2	15:b:107:MET:HE2	2.19	0.73
18:f:485:LEU:CD2	18:f:501:LEU:HD21	2.18	0.73
19:g:89:LEU:HD12	19:g:99:ASN:CB	2.18	0.73
23:B:278:ALA:HB1	23:B:279:PRO:HD2	1.68	0.73
2:D:354:LEU:HB3	2:D:358:VAL:HG11	1.70	0.73
4:H:196:LYS:HA	4:H:203:MET:HE1	1.69	0.73
6:J:7:ILE:HG12	6:J:18:GLN:HG2	1.69	0.73
10:W:341:PHE:CZ	10:W:354:LEU:HD22	2.24	0.73
13:Z:20:VAL:HG22	13:Z:126:VAL:CG2	2.17	0.73
14:a:77:VAL:HA	14:a:80:ILE:CG1	2.19	0.73
14:a:94:LEU:CD2	14:a:118:ILE:HA	2.16	0.73
18:f:527:VAL:HA	18:f:564:LEU:O	1.88	0.73
19:g:131:ILE:CG1	19:g:151:VAL:HG12	2.18	0.73
27:U:587:ALA:HB1	27:U:624:PHE:HD2	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:ASN:C	1:C:289:ILE:HD13	2.13	0.73
1:C:338:LEU:HD22	1:C:342:ILE:HG21	1.70	0.73
2:D:384:MET:HE3	24:E:167:PRO:HG3	1.71	0.73
10:W:171:VAL:HG11	10:W:185:PHE:HB3	1.71	0.73
17:d:143:LEU:O	17:d:147:ILE:N	2.14	0.73
18:f:275:MET:HE2	18:f:275:MET:HA	1.71	0.73
22:A:125:LEU:HD22	22:A:149:ILE:HB	1.70	0.73
23:B:388:ASP:OD2	23:B:427:LEU:HD21	1.88	0.73
24:E:46:ASP:HB3	25:F:139:LEU:HD22	1.71	0.73
24:E:276:ILE:O	24:E:276:ILE:HG22	1.88	0.73
27:U:141:CYS:HB2	27:U:150:ALA:HB2	1.71	0.73
27:U:470:ASN:OD1	27:U:474:ARG:NH1	2.21	0.73
4:H:83:TYR:HE1	4:H:134:LEU:HD21	1.54	0.73
5:I:90:LEU:HD22	5:I:110:LEU:HD11	1.69	0.73
5:I:135:LEU:HD21	5:I:162:THR:HG23	1.71	0.73
9:V:375:PHE:CE2	9:V:398:LEU:HD23	2.24	0.73
10:W:96:GLN:OE1	10:W:97:LEU:N	2.21	0.73
17:d:88:LEU:CD1	17:d:143:LEU:HD11	2.19	0.73
17:d:260:ILE:O	17:d:264:LEU:HG	1.88	0.73
18:f:562:LEU:HD21	18:f:576:ILE:CG2	2.19	0.73
19:g:129:ILE:HB	19:g:136:LEU:CG	2.19	0.73
22:A:238:ILE:CG2	22:A:260:LEU:HD11	2.19	0.73
27:U:465:LEU:HD21	27:U:500:ASN:HD21	1.54	0.73
27:U:549:ALA:HA	27:U:581:SER:HB2	1.71	0.73
1:C:406:LYS:HG2	5:I:64:LYS:HZ2	1.54	0.72
3:G:80:MET:CE	3:G:138:MET:HG3	2.19	0.72
4:H:106:PRO:HG2	4:H:109:GLN:CG	2.18	0.72
9:V:70:VAL:O	9:V:74:ASP:N	2.18	0.72
9:V:333:ILE:CD1	9:V:357:LEU:HD22	2.18	0.72
9:V:438:VAL:CG1	9:V:451:ILE:HD11	2.19	0.72
10:W:275:ILE:HG23	10:W:309:PHE:CE2	2.24	0.72
11:X:331:LEU:CD2	11:X:364:LYS:HG2	2.19	0.72
13:Z:101:LEU:CD2	13:Z:123:ILE:HD11	2.18	0.72
14:a:177:LEU:CD2	14:a:200:LEU:HD21	2.17	0.72
15:b:104:ASN:HB3	20:u:133:ALA:O	1.89	0.72
15:b:121:GLU:HA	15:b:124:LEU:CD2	2.19	0.72
17:d:141:LEU:HD12	17:d:182:LEU:HD11	1.71	0.72
18:f:500:LEU:O	18:f:503:PRO:HD2	1.89	0.72
23:B:251:VAL:CG1	23:B:254:GLU:HG3	2.16	0.72
26:K:27:ALA:HB2	26:K:136:PRO:HG2	1.70	0.72
26:K:186:HIS:CD2	26:K:189:MET:HE1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:226:GLU:OE2	1:C:229:ARG:NE	2.22	0.72
9:V:276:PHE:CD1	9:V:277:PRO:HD2	2.23	0.72
14:a:243:GLY:HA2	14:a:272:ILE:CD1	2.19	0.72
18:f:386:GLY:HA2	18:f:418:LEU:HD13	1.71	0.72
18:f:430:ASP:HB2	19:g:168:ASN:C	2.13	0.72
18:f:692:LEU:HB3	18:f:800:LEU:HD12	1.69	0.72
24:E:345:ASN:OD1	24:E:378:LYS:NZ	2.21	0.72
25:F:314:LEU:HD21	25:F:342:LEU:CD2	2.19	0.72
27:U:886:PRO:O	27:U:889:LEU:HD22	1.89	0.72
1:C:229:ARG:HG2	1:C:229:ARG:HH11	1.54	0.72
3:G:208:ILE:HD11	24:E:306:GLU:CD	2.13	0.72
9:V:318:GLN:O	9:V:325:LYS:NZ	2.21	0.72
12:Y:97:GLU:HA	12:Y:100:ILE:HG12	1.70	0.72
14:a:222:LEU:HD21	14:a:237:LEU:HD23	1.71	0.72
19:g:86:GLU:OE1	19:g:152:LYS:HG2	1.89	0.72
19:g:166:ARG:C	19:g:170:GLN:HB2	2.14	0.72
24:E:235:ILE:HD13	24:E:277:MET:HB2	1.55	0.72
27:U:748:LEU:H	27:U:748:LEU:HD12	1.54	0.72
1:C:24:TYR:HB2	2:D:40:LEU:CD2	2.15	0.72
1:C:79:ALA:HB3	22:A:65:ILE:HD13	1.71	0.72
1:C:314:LYS:HZ1	23:B:429:LYS:HB3	1.52	0.72
1:C:338:LEU:CD2	1:C:342:ILE:HG12	2.18	0.72
4:H:40:ALA:HB2	4:H:187:ALA:HB2	1.71	0.72
14:a:37:LEU:O	14:a:41:VAL:HG23	1.88	0.72
14:a:180:LEU:HD12	14:a:219:HIS:NE2	2.04	0.72
14:a:296:ILE:HG21	14:a:307:VAL:HG23	1.72	0.72
15:b:11:ASP:OD1	15:b:12:ASN:N	2.23	0.72
17:d:244:VAL:HG11	17:d:267:ILE:CD1	2.19	0.72
19:g:93:LEU:N	19:g:157:GLU:OE1	2.22	0.72
19:g:129:ILE:HB	19:g:136:LEU:HG	1.71	0.72
19:g:158:LEU:CD2	19:g:165:ALA:HB3	2.19	0.72
23:B:364:ILE:HG22	23:B:395:ILE:HG21	1.71	0.72
23:B:387:LYS:HE2	23:B:387:LYS:CA	2.13	0.72
24:E:40:TYR:HE2	25:F:72:LYS:HE2	1.55	0.72
27:U:545:LEU:HB3	27:U:577:ILE:HG21	1.71	0.72
3:G:200:THR:O	3:G:204:THR:HG23	1.89	0.72
4:H:10:LEU:CD1	4:H:21:GLN:HB3	2.18	0.72
4:H:214:ASN:OD1	4:H:216:ALA:N	2.19	0.72
5:I:38:LEU:O	5:I:180:LYS:NZ	2.23	0.72
7:L:125:ARG:HH12	26:K:125:GLU:HA	1.52	0.72
10:W:122:LEU:HA	10:W:125:ILE:HD11	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:62:GLN:HB3	11:X:65:GLU:HB2	1.71	0.72
11:X:345:VAL:CG1	11:X:350:ILE:HD11	2.19	0.72
14:a:51:ALA:CB	14:a:86:GLN:HG2	2.19	0.72
16:c:129:THR:O	16:c:132:SER:OG	2.06	0.72
17:d:114:GLU:O	17:d:118:ARG:NH1	2.22	0.72
18:f:423:ASP:HA	19:g:156:LEU:CD1	2.19	0.72
22:A:366:ARG:O	22:A:367:ASP:HB3	1.89	0.72
23:B:388:ASP:OD2	23:B:390:LEU:HD13	1.89	0.72
24:E:172:LEU:HB3	24:E:301:ILE:HD11	1.72	0.72
24:E:351:GLY:HA3	25:F:217:ILE:HD11	1.71	0.72
25:F:384:LEU:HD11	25:F:420:TYR:CB	2.19	0.72
27:U:443:LEU:HD23	27:U:477:GLY:CA	2.20	0.72
1:C:127:LEU:HD11	2:D:96:VAL:HG21	1.70	0.72
3:G:80:MET:HE2	3:G:91:VAL:CG2	2.18	0.72
3:G:190:THR:OG1	3:G:193:GLN:OE1	2.02	0.72
10:W:313:GLU:OE2	14:a:313:LYS:HD3	1.90	0.72
14:a:112:ILE:CD1	14:a:138:VAL:HG21	2.16	0.72
19:g:125:ASN:HA	19:g:161:SER:OG	1.89	0.72
23:B:121:ALA:CB	23:B:135:ILE:HD11	2.20	0.72
27:U:448:LEU:HD22	27:U:483:LEU:HD23	1.71	0.72
8:M:33:SER:HB2	8:M:79:GLY:HA2	1.70	0.72
9:V:363:LEU:HD21	9:V:395:ILE:HD12	1.71	0.72
10:W:26:GLN:O	10:W:29:PRO:HD2	1.89	0.72
15:b:16:MET:O	15:b:16:MET:HE3	1.90	0.72
18:f:187:LEU:O	18:f:191:ILE:HG22	1.89	0.72
18:f:402:ASN:HB3	18:f:406:GLY:HA3	1.70	0.72
19:g:88:PHE:N	19:g:153:ALA:O	2.21	0.72
19:g:114:SER:CA	19:g:124:GLU:HG3	2.20	0.72
22:A:72:LEU:HD22	23:B:96:ARG:HH21	1.53	0.72
23:B:257:GLN:CB	23:B:262:ASP:HB3	2.19	0.72
27:U:101:ILE:HG13	27:U:102:ALA:N	2.04	0.72
27:U:137:MET:CE	27:U:140:ARG:HD3	2.20	0.72
1:C:113:ARG:CD	1:C:130:LYS:HB2	2.18	0.72
2:D:178:ARG:HG2	2:D:182:GLU:OE1	1.88	0.72
2:D:203:LEU:HD23	2:D:330:LYS:HG2	1.71	0.72
4:H:73:GLY:C	4:H:74:LEU:HD23	2.14	0.72
5:I:71:ASP:CB	5:I:223:THR:HG21	2.20	0.72
8:M:65:ARG:NH2	8:M:78:ALA:HA	2.03	0.72
9:V:86:VAL:HG13	9:V:200:ARG:HH12	1.53	0.72
9:V:131:LEU:CD1	9:V:171:VAL:HG21	2.19	0.72
10:W:394:SER:O	10:W:398:VAL:HG23	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:57:LEU:HD22	11:X:66:LEU:HD13	1.72	0.72
11:X:225:TRP:O	11:X:228:ALA:N	2.22	0.72
15:b:186:SER:HB3	15:b:187:PRO:HD3	1.72	0.72
19:g:88:PHE:HB2	19:g:154:MET:HA	1.71	0.72
22:A:356:LYS:O	22:A:360:ARG:HG3	1.90	0.72
23:B:197:ILE:HG13	23:B:197:ILE:O	1.88	0.72
24:E:73:ALA:HB3	24:E:76:GLY:HA3	1.72	0.72
25:F:177:VAL:CG1	25:F:179:GLU:HG3	2.19	0.72
2:D:355:SER:HB2	2:D:393:ILE:HG21	1.71	0.72
5:I:45:LEU:HD11	5:I:137:ILE:HG23	1.72	0.72
11:X:194:ARG:NH2	11:X:210:LEU:O	2.23	0.72
14:a:159:SER:O	14:a:168:ASN:ND2	2.23	0.72
17:d:90:ALA:O	17:d:94:MET:N	2.20	0.72
17:d:200:LEU:HD23	17:d:263:LEU:HD21	1.72	0.72
19:g:117:ALA:HB1	19:g:122:LEU:O	1.89	0.72
19:g:170:GLN:HG2	19:g:173:GLU:CG	2.11	0.72
22:A:213:LEU:HD11	22:A:321:THR:HG21	1.72	0.72
25:F:362:ARG:NE	25:F:388:THR:O	2.22	0.72
3:G:38:THR:CG2	3:G:202:LEU:HD11	2.19	0.72
3:G:72:ILE:HG21	3:G:114:LEU:HD21	1.70	0.72
3:G:171:LYS:HA	3:G:171:LYS:CE	2.12	0.72
9:V:228:ARG:O	9:V:232:HIS:HB2	1.90	0.72
9:V:311:ASN:OD1	9:V:314:ARG:NH2	2.22	0.72
13:Z:73:ASP:OD2	15:b:63:THR:HB	1.89	0.72
22:A:60:ASN:O	22:A:64:GLY:N	2.23	0.72
22:A:121:PHE:CE2	25:F:89:LEU:HD13	2.25	0.72
25:F:247:THR:HB	25:F:281:SER:CB	2.20	0.72
27:U:427:LEU:HD12	27:U:438:GLN:CG	2.20	0.72
27:U:474:ARG:NH2	27:U:500:ASN:OD1	2.21	0.72
27:U:588:MET:HE1	27:U:760:VAL:HG12	1.71	0.72
1:C:159:LYS:HD3	22:A:22:ILE:O	1.89	0.71
1:C:232:ARG:HH12	1:C:275:GLU:CD	1.98	0.71
1:C:258:ARG:HD3	1:C:273:MET:HE2	1.70	0.71
1:C:336:MET:HE3	1:C:378:VAL:HG21	1.72	0.71
7:L:49:LEU:HD21	7:L:199:LEU:HD21	1.72	0.71
7:L:60:GLN:HG2	25:F:439:ALA:CB	2.20	0.71
12:Y:49:ASN:HA	12:Y:73:MET:CE	2.15	0.71
14:a:101:ARG:HD2	14:a:111:VAL:HG23	1.71	0.71
14:a:148:VAL:HG13	14:a:151:VAL:HG22	1.70	0.71
18:f:109:ILE:HG12	18:f:113:MET:HB2	1.72	0.71
18:f:270:LEU:HD13	18:f:787:LEU:HD11	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:567:LEU:HA	18:f:598:CYS:O	1.89	0.71
23:B:151:LEU:N	23:B:161:GLY:O	2.16	0.71
23:B:358:GLU:OE1	23:B:387:LYS:NZ	2.23	0.71
1:C:135:VAL:HA	1:C:138:MET:CE	2.19	0.71
13:Z:147:ASP:HB3	14:a:215:GLU:OE1	1.89	0.71
14:a:45:VAL:HG21	14:a:79:ILE:CD1	2.19	0.71
17:d:123:LEU:HA	17:d:126:LEU:HB2	1.72	0.71
4:H:39:LYS:NZ	4:H:144:PRO:HG2	2.04	0.71
10:W:98:LYS:HD2	10:W:137:TYR:CD1	2.24	0.71
11:X:267:VAL:HG11	11:X:291:ALA:CB	2.20	0.71
14:a:22:TRP:O	14:a:25:LEU:HG	1.90	0.71
18:f:505:MET:HB3	18:f:541:THR:HG21	1.72	0.71
19:g:89:LEU:HD23	19:g:155:VAL:HB	1.72	0.71
24:E:180:LYS:HG2	24:E:301:ILE:HG13	1.72	0.71
25:F:268:VAL:HG11	25:F:313:LEU:CB	2.19	0.71
26:K:40:ILE:HB	26:K:47:CYS:SG	2.30	0.71
26:K:137:PHE:O	26:K:158:PRO:HB3	1.89	0.71
27:U:12:LEU:HD22	27:U:45:ILE:CD1	2.21	0.71
27:U:521:LEU:HD12	27:U:522:GLY:N	2.05	0.71
27:U:634:PRO:O	27:U:638:SER:OG	2.09	0.71
5:I:32:GLY:N	5:I:50:ARG:HD2	2.04	0.71
7:L:109:VAL:HG22	7:L:134:ILE:HD12	1.71	0.71
8:M:69:VAL:HG11	8:M:111:LEU:HD21	1.72	0.71
14:a:97:LEU:CD1	14:a:114:CYS:HB3	2.20	0.71
15:b:17:ARG:HD3	15:b:81:LYS:NZ	2.05	0.71
18:f:103:TYR:HD2	18:f:107:LYS:HB2	1.55	0.71
22:A:135:GLU:N	22:A:138:MET:SD	2.64	0.71
23:B:374:LEU:HG	23:B:378:VAL:HG11	1.71	0.71
25:F:172:VAL:HG12	25:F:274:LEU:HD22	1.72	0.71
27:U:422:LEU:HG	27:U:426:TYR:CE2	2.24	0.71
27:U:489:ALA:HA	27:U:520:MET:CE	2.19	0.71
1:C:220:VAL:HG22	1:C:269:VAL:HG23	1.71	0.71
4:H:71:HIS:NE2	4:H:72:ILE:HD11	2.06	0.71
4:H:135:LEU:HD22	4:H:146:LEU:HD21	1.70	0.71
14:a:149:THR:HA	14:a:152:HIS:ND1	2.05	0.71
17:d:88:LEU:HD13	17:d:143:LEU:HD11	1.73	0.71
18:f:221:ILE:CD1	18:f:229:VAL:HG11	2.20	0.71
18:f:553:THR:O	18:f:556:ARG:HB3	1.91	0.71
19:g:111:GLU:OE1	19:g:111:GLU:N	2.23	0.71
19:g:128:LYS:CD	19:g:162:GLU:HB2	2.21	0.71
24:E:167:PRO:O	24:E:274:LYS:HE3	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:362:VAL:HG23	1:C:390:VAL:HG11	1.72	0.71
8:M:187:ARG:NH1	8:M:187:ARG:O	2.24	0.71
9:V:349:ARG:NH2	28:e:37:HIS:O	2.23	0.71
10:W:214:PHE:HB3	10:W:223:LYS:HB2	1.71	0.71
10:W:359:VAL:HG13	10:W:382:LEU:HD22	1.71	0.71
18:f:343:LYS:HD3	18:f:773:LYS:HE2	1.72	0.71
19:g:130:VAL:HG12	19:g:135:GLN:HG2	1.72	0.71
19:g:165:ALA:HB1	19:g:169:PHE:H	1.53	0.71
22:A:191:VAL:HG11	22:A:229:VAL:HG11	1.72	0.71
25:F:247:THR:HB	25:F:281:SER:HB2	1.72	0.71
27:U:11:LEU:HD22	27:U:19:LEU:HD11	1.72	0.71
27:U:606:ALA:HB1	27:U:619:VAL:HG23	1.72	0.71
27:U:638:SER:HA	27:U:671:LEU:HD11	1.70	0.71
2:D:259:PRO:HB3	2:D:304:ASN:HB3	1.72	0.71
5:I:153:SER:OG	5:I:155:ASN:ND2	2.23	0.71
9:V:77:GLU:O	9:V:81:GLN:HG2	1.91	0.71
10:W:445:LEU:HB3	13:Z:226:ILE:HG21	1.73	0.71
12:Y:181:LYS:HG2	12:Y:200:LEU:CD1	2.19	0.71
14:a:57:ILE:HA	14:a:60:TYR:HB3	1.72	0.71
14:a:122:LYS:NZ	14:a:126:GLY:O	2.17	0.71
14:a:148:VAL:O	14:a:149:THR:OG1	2.06	0.71
17:d:85:GLY:O	17:d:89:GLN:N	2.20	0.71
18:f:217:LEU:O	18:f:221:ILE:HG13	1.90	0.71
18:f:351:THR:HA	18:f:354:GLU:OE1	1.91	0.71
18:f:377:VAL:O	18:f:381:VAL:HB	1.91	0.71
18:f:431:LYS:HA	19:g:171:LEU:HB3	1.71	0.71
18:f:831:VAL:HA	18:f:871:PRO:HA	1.72	0.71
19:g:112:LEU:HD13	19:g:142:LEU:CD2	2.21	0.71
24:E:172:LEU:HD23	24:E:299:ILE:HB	1.71	0.71
27:U:462:LEU:CD1	27:U:496:LEU:HD23	2.20	0.71
27:U:707:ASN:O	27:U:711:GLN:NE2	2.23	0.71
5:I:92:LEU:HD21	5:I:96:ARG:HH11	1.55	0.71
9:V:111:TYR:CZ	9:V:115:LYS:HG3	2.26	0.71
12:Y:362:LYS:NZ	13:Z:255:ASP:OD2	2.22	0.71
14:a:62:ASN:O	14:a:66:GLU:N	2.23	0.71
14:a:73:PRO:O	14:a:77:VAL:HG12	1.91	0.71
15:b:63:THR:O	15:b:65:THR:HG23	1.91	0.71
17:d:116:LEU:HD21	17:d:150:ILE:HG22	1.72	0.71
18:f:446:LEU:HD21	18:f:480:GLY:HA2	1.73	0.71
18:f:594:LEU:O	18:f:597:VAL:HG12	1.90	0.71
27:U:250:PHE:HZ	27:U:333:MET:HG2	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:400:SER:HB3	4:H:26:LEU:HD22	1.72	0.71
5:I:135:LEU:HG	5:I:164:ILE:CD1	2.20	0.71
6:J:132:LEU:CD2	6:J:146:GLN:HB2	2.21	0.71
6:J:171:PHE:CE2	6:J:194:ALA:HA	2.25	0.71
7:L:36:VAL:HG21	7:L:194:ALA:HB3	1.73	0.71
10:W:267:LEU:O	10:W:271:VAL:HG12	1.91	0.71
12:Y:56:ALA:HA	12:Y:59:LYS:HD3	1.73	0.71
12:Y:134:LEU:HD12	12:Y:134:LEU:O	1.90	0.71
14:a:249:GLN:O	14:a:253:THR:HG22	1.90	0.71
17:d:156:ILE:HD12	17:d:255:SER:CB	2.20	0.71
18:f:447:ALA:HA	18:f:450:ILE:HG22	1.71	0.71
18:f:878:GLU:OE1	18:f:878:GLU:HA	1.90	0.71
22:A:52:ILE:HD11	23:B:69:LYS:HA	1.73	0.71
25:F:198:LEU:HD22	25:F:240:CYS:SG	2.30	0.71
25:F:268:VAL:HG11	25:F:313:LEU:HB2	1.73	0.71
27:U:101:ILE:O	27:U:105:ILE:HG12	1.91	0.71
27:U:195:ASN:O	27:U:199:ARG:HG2	1.89	0.71
27:U:900:TYR:CB	27:U:914:LEU:HD21	2.21	0.71
1:C:277:LEU:O	1:C:310:ARG:NE	2.24	0.71
2:D:369:LYS:HE3	2:D:369:LYS:CA	2.06	0.71
5:I:195:LYS:HD2	5:I:195:LYS:C	2.16	0.71
9:V:76:LYS:O	9:V:80:LYS:HB3	1.91	0.71
9:V:493:ALA:C	9:V:495:ARG:H	1.97	0.71
10:W:17:GLU:HG2	10:W:58:SER:HB2	1.72	0.71
11:X:368:MET:HE2	11:X:374:PHE:HD1	1.56	0.71
11:X:409:LYS:HD2	16:c:256:ASN:HD21	1.55	0.71
12:Y:41:LEU:O	12:Y:45:VAL:HG23	1.89	0.71
12:Y:97:GLU:HA	12:Y:100:ILE:CG1	2.21	0.71
12:Y:348:ASP:HB3	12:Y:353:ILE:O	1.91	0.71
27:U:199:ARG:HD2	27:U:223:LEU:CD1	2.20	0.71
8:M:75:MET:HE1	8:M:88:ALA:HA	1.73	0.70
10:W:127:THR:O	10:W:131:VAL:HG22	1.91	0.70
13:Z:139:ILE:HG22	13:Z:140:SER:H	1.56	0.70
14:a:109:GLU:OE1	14:a:112:ILE:HG22	1.90	0.70
15:b:104:ASN:OD1	15:b:105:HIS:ND1	2.23	0.70
17:d:178:TYR:HB3	17:d:182:LEU:HG	1.73	0.70
22:A:369:ARG:NH2	26:K:206:MET:O	2.23	0.70
26:K:235:GLU:N	26:K:235:GLU:OE1	2.21	0.70
27:U:341:PHE:CE2	27:U:787:CYS:HB3	2.26	0.70
2:D:154:LEU:HD11	24:E:267:PHE:CE1	2.26	0.70
2:D:410:ASP:HB2	2:D:413:GLU:CG	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:169:LEU:HA	9:V:172:VAL:HB	1.73	0.70
14:a:78:GLU:HA	14:a:81:LEU:CD2	2.21	0.70
18:f:71:TYR:CD2	18:f:113:MET:HG3	2.27	0.70
18:f:433:LEU:H	19:g:172:GLU:HG3	1.54	0.70
18:f:527:VAL:HG11	18:f:794:ALA:CB	2.21	0.70
26:K:140:ALA:HB1	26:K:156:MET:O	1.90	0.70
27:U:27:LEU:O	27:U:31:VAL:N	2.24	0.70
27:U:115:ASN:HD22	27:U:123:LYS:HG2	1.54	0.70
7:L:158:ALA:O	8:M:57:LEU:HD22	1.91	0.70
9:V:322:VAL:O	9:V:326:GLN:HG3	1.91	0.70
11:X:187:ARG:HD3	11:X:221:GLU:OE2	1.91	0.70
17:d:146:ASP:O	17:d:150:ILE:N	2.22	0.70
17:d:177:ASP:OD1	27:U:2:ILE:N	2.24	0.70
18:f:606:VAL:HG12	27:U:835:ILE:HD11	1.72	0.70
3:G:208:ILE:HD12	24:E:306:GLU:CD	2.15	0.70
11:X:173:GLU:HA	11:X:176:THR:HG22	1.74	0.70
14:a:94:LEU:HD11	14:a:118:ILE:CB	2.21	0.70
14:a:94:LEU:HD11	14:a:118:ILE:CG1	2.20	0.70
15:b:30:GLN:HG3	15:b:75:LEU:HD13	1.73	0.70
15:b:132:LYS:HD2	15:b:159:THR:O	1.92	0.70
15:b:184:ILE:O	15:b:188:ILE:HG22	1.91	0.70
18:f:542:ILE:O	18:f:545:LYS:HG2	1.90	0.70
27:U:78:LEU:HD21	27:U:103:LYS:HB2	1.72	0.70
27:U:347:ASN:HB3	27:U:813:TYR:HE2	1.56	0.70
2:D:383:GLY:HA3	24:E:164:ILE:CD1	2.22	0.70
3:G:132:ARG:NH1	8:M:20:VAL:HG21	2.06	0.70
7:L:70:ILE:HG12	7:L:105:VAL:HG22	1.73	0.70
9:V:79:VAL:HG13	9:V:163:VAL:CG1	2.22	0.70
14:a:94:LEU:CD1	14:a:118:ILE:HD12	2.22	0.70
15:b:32:ALA:O	15:b:35:ILE:HG22	1.91	0.70
15:b:117:VAL:O	15:b:152:LYS:NZ	2.21	0.70
16:c:177:THR:HB	27:U:774:PRO:HD3	1.72	0.70
17:d:194:LEU:HD12	17:d:194:LEU:H	1.54	0.70
18:f:431:LYS:N	19:g:172:GLU:HB2	2.06	0.70
18:f:539:LEU:HA	18:f:542:ILE:CD1	2.21	0.70
18:f:606:VAL:CG1	27:U:835:ILE:HD11	2.22	0.70
27:U:108:TYR:CD2	27:U:134:VAL:HG11	2.25	0.70
27:U:680:VAL:HB	27:U:683:VAL:CG1	2.22	0.70
3:G:79:VAL:CG1	3:G:139:ILE:HD12	2.21	0.70
5:I:86:LEU:HG	5:I:114:LEU:HD21	1.72	0.70
9:V:173:ILE:HG12	9:V:213:TYR:CE2	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:437:ILE:HD13	17:d:238:GLU:O	1.91	0.70
10:W:259:GLU:HG3	10:W:262:LYS:HB2	1.73	0.70
12:Y:309:GLU:HA	12:Y:309:GLU:OE2	1.90	0.70
17:d:151:GLY:HA2	17:d:154:TRP:HB3	1.74	0.70
18:f:326:LEU:HD21	18:f:420:TRP:CE3	2.27	0.70
22:A:230:ALA:HA	22:A:233:THR:HG23	1.74	0.70
24:E:203:ILE:HD11	24:E:238:ILE:HG12	1.72	0.70
1:C:154:LEU:O	1:C:158:ILE:HD12	1.92	0.70
5:I:45:LEU:CD1	5:I:137:ILE:HD13	2.21	0.70
14:a:275:LEU:O	14:a:279:GLU:HG2	1.91	0.70
15:b:147:GLU:CG	15:b:150:THR:HG23	2.21	0.70
4:H:80:GLY:O	4:H:83:TYR:N	2.20	0.70
14:a:215:GLU:N	14:a:215:GLU:OE2	2.24	0.70
18:f:86:THR:HG22	18:f:154:TRP:O	1.91	0.70
18:f:282:PHE:CD2	18:f:294:MET:HE2	2.26	0.70
18:f:513:GLU:HB2	18:f:554:TYR:CE2	2.26	0.70
25:F:341:ALA:O	25:F:347:ARG:HD2	1.92	0.70
27:U:372:ALA:HB2	27:U:731:ILE:HG22	1.74	0.70
27:U:501:LEU:HD12	27:U:544:ILE:HD11	1.74	0.70
27:U:509:GLY:CA	27:U:544:ILE:HG13	2.19	0.70
27:U:641:SER:OG	27:U:642:GLU:OE1	2.10	0.70
1:C:161:ILE:HD11	1:C:292:ILE:CD1	2.21	0.70
8:M:87:LEU:HD13	8:M:131:PHE:CE2	2.27	0.70
10:W:383:ASP:O	10:W:384:LEU:HD23	1.92	0.70
12:Y:280:GLN:NE2	28:e:53:SER:OG	2.24	0.70
14:a:90:PRO:HA	14:a:121:LEU:HD22	1.72	0.70
14:a:173:TYR:CE1	14:a:177:LEU:HD11	2.27	0.70
14:a:173:TYR:O	14:a:177:LEU:HG	1.91	0.70
18:f:63:LEU:HD13	18:f:106:LEU:HD11	1.72	0.70
18:f:245:ASN:OD1	18:f:246:SER:N	2.24	0.70
19:g:145:GLN:HG3	19:g:147:VAL:HG23	1.73	0.70
22:A:120:LYS:HB2	25:F:90:VAL:HG12	1.74	0.70
26:K:206:MET:CE	26:K:215:ILE:HG21	2.21	0.70
27:U:532:MET:HB3	27:U:552:ILE:CG2	2.21	0.70
3:G:36:GLY:C	3:G:37:LEU:HD23	2.16	0.70
7:L:40:SER:HB2	7:L:182:CYS:HB2	1.73	0.70
10:W:307:LYS:O	10:W:311:THR:HG23	1.91	0.70
15:b:53:THR:CG2	15:b:59:GLU:HB2	2.22	0.70
17:d:311:GLY:HA3	17:d:315:TYR:O	1.92	0.70
18:f:845:ARG:HB3	18:f:881:GLU:OE2	1.92	0.70
23:B:119:ASN:C	23:B:120:HIS:HD1	1.98	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:394:ASP:O	23:B:398:ILE:HG22	1.92	0.70
24:E:149:ILE:HD11	24:E:276:ILE:HG12	1.74	0.70
2:D:264:ILE:HG21	2:D:267:ILE:HD13	1.73	0.69
3:G:196:GLU:O	3:G:199:ILE:HG22	1.92	0.69
3:G:232:GLU:HA	3:G:235:ILE:HD13	1.74	0.69
6:J:76:LEU:HD23	6:J:76:LEU:H	1.56	0.69
9:V:438:VAL:HG11	9:V:458:VAL:HG21	1.74	0.69
10:W:210:ASN:OD1	10:W:211:THR:N	2.25	0.69
10:W:230:MET:HE1	10:W:233:LEU:CD2	2.20	0.69
10:W:375:MET:HE1	10:W:390:GLU:HG2	1.74	0.69
17:d:126:LEU:HB3	17:d:140:GLN:HE21	1.57	0.69
18:f:769:THR:HG23	18:f:770:HIS:ND1	2.07	0.69
18:f:806:VAL:O	18:f:810:ILE:N	2.24	0.69
22:A:364:VAL:HG21	22:A:368:ILE:HG13	1.72	0.69
23:B:223:ILE:CG2	23:B:350:LYS:HG2	2.22	0.69
23:B:414:VAL:HG23	23:B:418:ASP:CB	2.21	0.69
24:E:33:LEU:HD21	25:F:66:LEU:HA	1.74	0.69
27:U:169:GLU:O	27:U:171:ASN:ND2	2.20	0.69
27:U:198:LEU:HB3	27:U:223:LEU:HG	1.72	0.69
27:U:472:ILE:H	27:U:472:ILE:HD12	1.55	0.69
27:U:689:ILE:HD11	27:U:729:GLY:HA2	1.74	0.69
1:C:77:VAL:HB	1:C:86:LEU:HD22	1.73	0.69
1:C:313:ARG:NH1	23:B:401:GLU:OE2	2.25	0.69
1:C:351:MET:CE	1:C:359:VAL:HG22	2.23	0.69
7:L:15:PRO:HA	8:M:25:TYR:CE2	2.26	0.69
7:L:58:ALA:HB3	26:K:164:GLN:HG3	1.74	0.69
8:M:227:VAL:O	8:M:232:ARG:NH2	2.22	0.69
12:Y:228:MET:HE1	12:Y:259:TYR:CZ	2.26	0.69
18:f:541:THR:O	18:f:544:GLU:HG3	1.92	0.69
18:f:648:ALA:O	18:f:652:VAL:HG22	1.92	0.69
19:g:131:ILE:HD12	19:g:153:ALA:CB	2.21	0.69
19:g:162:GLU:OE1	19:g:162:GLU:N	2.20	0.69
24:E:151:LEU:HB3	24:E:159:PHE:CE2	2.27	0.69
25:F:231:THR:CG2	25:F:354:PHE:HB3	2.15	0.69
26:K:67:ILE:HD13	26:K:77:ALA:HA	1.74	0.69
27:U:465:LEU:HD21	27:U:500:ASN:ND2	2.07	0.69
27:U:641:SER:CB	27:U:675:MET:HE1	2.21	0.69
3:G:32:ILE:O	3:G:82:GLY:HA2	1.92	0.69
6:J:132:LEU:HG	6:J:161:ILE:CD1	2.22	0.69
8:M:228:PRO:HB2	8:M:230:ASP:OD1	1.91	0.69
11:X:114:ILE:HD11	11:X:130:GLU:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:152:HIS:HB3	14:a:156:TYR:CE2	2.27	0.69
16:c:188:SER:HB2	16:c:190:GLN:OE1	1.92	0.69
17:d:153:GLN:HA	17:d:156:ILE:HG12	1.74	0.69
18:f:498:LEU:HD13	18:f:534:VAL:CG2	2.23	0.69
22:A:125:LEU:HB3	22:A:129:VAL:CG1	2.22	0.69
23:B:49:LEU:HD22	23:B:50:PRO:HD2	1.73	0.69
26:K:76:CYS:SG	26:K:141:LEU:HD22	2.33	0.69
26:K:202:LEU:O	26:K:206:MET:HB2	1.92	0.69
27:U:242:LEU:HD21	27:U:321:GLN:NE2	2.07	0.69
9:V:84:LYS:O	9:V:88:GLY:N	2.24	0.69
10:W:263:TRP:CZ3	10:W:295:LYS:HD3	2.27	0.69
12:Y:26:LEU:HD21	12:Y:37:VAL:HB	1.75	0.69
14:a:38:THR:O	14:a:42:LEU:N	2.21	0.69
14:a:325:ASP:OD1	14:a:326:GLU:N	2.26	0.69
15:b:7:MET:CE	15:b:64:LEU:HG	2.22	0.69
23:B:297:SER:O	23:B:303:ARG:NH2	2.26	0.69
27:U:751:ARG:NE	27:U:909:GLY:O	2.24	0.69
27:U:904:LYS:HG3	27:U:905:PRO:HD2	1.73	0.69
1:C:337:ASN:HB2	1:C:376:VAL:O	1.92	0.69
4:H:118:MET:HE3	4:H:151:PRO:HA	1.73	0.69
9:V:68:ASP:CG	9:V:112:VAL:HG22	2.17	0.69
14:a:191:SER:HA	14:a:194:GLN:NE2	2.07	0.69
14:a:276:CYS:SG	14:a:280:MET:HE3	2.33	0.69
15:b:68:THR:O	15:b:72:LEU:HG	1.92	0.69
17:d:331:PRO:O	17:d:333:THR:N	2.25	0.69
18:f:128:VAL:O	18:f:131:MET:HG3	1.91	0.69
18:f:131:MET:HE1	22:A:36:TYR:CE1	2.26	0.69
18:f:679:LEU:HD21	18:f:690:VAL:HB	1.75	0.69
18:f:771:LEU:HD13	18:f:778:LEU:HD21	1.74	0.69
18:f:892:PRO:HG2	18:f:893:ILE:CD1	2.22	0.69
19:g:128:LYS:HA	19:g:162:GLU:CB	2.21	0.69
22:A:264:ALA:HB1	22:A:315:ILE:HD12	1.74	0.69
22:A:284:ARG:HG2	22:A:296:GLN:CG	2.21	0.69
25:F:228:PRO:CG	25:F:356:MET:HG3	2.22	0.69
26:K:41:GLN:HA	26:K:46:VAL:HG22	1.74	0.69
27:U:367:THR:O	27:U:371:ILE:HG22	1.92	0.69
2:D:337:ASP:OD1	2:D:339:ARG:N	2.25	0.69
4:H:179:ASN:HB3	4:H:182:LEU:HD21	1.74	0.69
7:L:228:ASP:O	7:L:231:PRO:HD2	1.91	0.69
8:M:74:GLY:O	8:M:137:LEU:HA	1.93	0.69
14:a:118:ILE:O	14:a:122:LYS:N	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:161:LYS:O	14:a:164:GLN:HG2	1.92	0.69
14:a:321:LYS:HD2	14:a:336:VAL:HG21	1.73	0.69
18:f:239:TYR:OH	23:B:64:LYS:HE3	1.91	0.69
18:f:446:LEU:CD2	18:f:480:GLY:HA2	2.22	0.69
18:f:702:PRO:CD	18:f:736:THR:HG21	2.22	0.69
19:g:129:ILE:HB	19:g:136:LEU:HD11	1.74	0.69
26:K:146:VAL:HG12	26:K:151:PRO:HA	1.74	0.69
27:U:246:TYR:OH	27:U:324:LYS:HG2	1.92	0.69
1:C:212:ILE:CD1	1:C:237:MET:HE3	2.19	0.69
9:V:64:GLN:HG3	9:V:109:ASN:ND2	2.07	0.69
9:V:68:ASP:O	9:V:72:LEU:N	2.17	0.69
9:V:209:LYS:HE3	9:V:213:TYR:CE1	2.26	0.69
9:V:289:LEU:HD22	9:V:308:THR:HG23	1.75	0.69
10:W:60:MET:HA	10:W:97:LEU:HD12	1.73	0.69
12:Y:228:MET:HE1	12:Y:259:TYR:CE1	2.27	0.69
14:a:274:LEU:HD21	14:a:319:LEU:HD22	1.73	0.69
15:b:33:VAL:CG1	15:b:75:LEU:HD11	2.22	0.69
18:f:257:ARG:HA	18:f:257:ARG:NH1	2.08	0.69
24:E:112:PRO:CD	25:F:97:LEU:HD13	2.20	0.69
27:U:236:LEU:HD23	27:U:245:ALA:HB2	1.75	0.69
27:U:552:ILE:O	27:U:555:VAL:HG12	1.93	0.69
27:U:869:LYS:CA	27:U:872:GLU:HB3	2.16	0.69
1:C:24:TYR:C	2:D:40:LEU:HD11	2.18	0.69
2:D:180:ALA:O	2:D:306:LYS:NZ	2.22	0.69
3:G:123:GLN:HE22	3:G:127:GLN:NE2	1.91	0.69
5:I:21:VAL:HG11	23:B:438:LEU:HD21	1.75	0.69
6:J:45:VAL:CG2	6:J:61:LYS:HD3	2.22	0.69
7:L:49:LEU:HD21	7:L:199:LEU:CD2	2.22	0.69
9:V:122:THR:HA	9:V:128:ARG:CD	2.21	0.69
9:V:408:ARG:HA	9:V:447:ILE:HD11	1.73	0.69
10:W:171:VAL:HA	10:W:174:TYR:CE2	2.27	0.69
13:Z:45:LYS:HD2	13:Z:45:LYS:N	2.07	0.69
14:a:222:LEU:HD21	14:a:237:LEU:CD2	2.23	0.69
14:a:371:ALA:HB1	14:a:374:ILE:HG23	1.75	0.69
15:b:121:GLU:HA	15:b:124:LEU:HD21	1.75	0.69
16:c:52:GLU:OE1	20:u:289:HIS:CD2	2.46	0.69
17:d:123:LEU:CD2	17:d:144:ALA:HB2	2.21	0.69
17:d:168:MET:O	17:d:172:LYS:N	2.26	0.69
18:f:174:ASP:O	18:f:181:ARG:NH1	2.17	0.69
18:f:379:GLY:HA3	18:f:416:MET:HE3	1.73	0.69
18:f:438:ASP:O	18:f:441:LYS:HG3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:609:VAL:HG12	23:B:74:MET:CE	2.20	0.69
19:g:156:LEU:O	19:g:158:LEU:HD12	1.93	0.69
22:A:71:GLY:HA3	23:B:162:VAL:HG12	1.75	0.69
22:A:277:ILE:HG23	22:A:327:LEU:HD21	1.74	0.69
23:B:356:PRO:HB2	23:B:361:LYS:CG	2.23	0.69
25:F:436:GLN:NE2	26:K:28:ILE:HD13	2.08	0.69
26:K:68:VAL:HG23	26:K:76:CYS:HB3	1.75	0.69
27:U:717:ILE:HD13	27:U:731:ILE:HD11	1.73	0.69
3:G:102:LYS:HA	3:G:107:TYR:O	1.92	0.69
5:I:147:LEU:HB3	5:I:159:TRP:O	1.91	0.69
7:L:43:HIS:CD2	7:L:184:LEU:HD13	2.28	0.69
9:V:64:GLN:NE2	9:V:68:ASP:OD2	2.26	0.69
14:a:180:LEU:HD12	14:a:219:HIS:HE2	1.57	0.69
18:f:163:ALA:HB2	18:f:191:ILE:CD1	2.23	0.69
18:f:219:LYS:HA	18:f:258:LYS:NZ	2.08	0.69
24:E:352:MET:CE	24:E:355:ILE:CD1	2.71	0.69
25:F:93:VAL:HG22	25:F:124:ILE:CD1	2.23	0.69
25:F:130:GLN:HB2	25:F:132:TYR:CE2	2.27	0.69
25:F:220:PRO:HG2	25:F:350:ARG:HD3	1.75	0.69
27:U:344:ARG:HH21	27:U:927:PRO:HB2	1.58	0.69
27:U:427:LEU:HD12	27:U:438:GLN:HG3	1.74	0.69
1:C:148:TYR:OH	1:C:162:LYS:NZ	2.26	0.69
1:C:162:LYS:HG2	1:C:166:GLU:HB2	1.73	0.69
3:G:202:LEU:O	3:G:206:LEU:HG	1.93	0.69
6:J:132:LEU:HD23	6:J:146:GLN:HB2	1.75	0.69
7:L:196:ARG:HH22	7:L:239:ARG:HB2	1.58	0.69
8:M:72:HIS:NE2	8:M:105:ASN:HB3	2.06	0.69
10:W:132:THR:HB	10:W:138:VAL:HG13	1.74	0.69
10:W:186:ILE:HG23	10:W:205:ILE:CG2	2.22	0.69
14:a:110:ALA:HA	14:a:113:LEU:HD13	1.75	0.69
14:a:274:LEU:CD2	14:a:278:MET:HE1	2.23	0.69
17:d:302:TYR:HD1	17:d:306:ARG:HG3	1.58	0.69
18:f:479:LEU:HD21	18:f:513:GLU:HG3	1.75	0.69
19:g:165:ALA:CA	19:g:168:ASN:H	2.06	0.69
22:A:72:LEU:HD22	23:B:96:ARG:NH2	2.08	0.69
25:F:201:ALA:C	25:F:205:PRO:HG2	2.18	0.69
26:K:25:GLU:O	26:K:29:GLU:HG2	1.93	0.69
26:K:48:LEU:O	26:K:217:LEU:HD23	1.93	0.69
27:U:876:GLN:O	27:U:878:LEU:HG	1.93	0.69
5:I:136:TYR:O	5:I:147:LEU:HD12	1.93	0.68
9:V:78:HIS:ND1	9:V:166:TYR:OH	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:298:SER:CB	11:X:301:ASP:HB2	2.23	0.68
12:Y:97:GLU:HA	12:Y:100:ILE:CD1	2.23	0.68
13:Z:54:PHE:CD1	13:Z:78:MET:HG2	2.28	0.68
16:c:231:LEU:O	16:c:298:GLN:NE2	2.25	0.68
18:f:164:GLY:O	18:f:168:LYS:HG3	1.93	0.68
18:f:407:MET:HE2	18:f:440:ILE:HG21	1.75	0.68
19:g:107:ILE:CD1	19:g:111:GLU:HB3	2.15	0.68
19:g:140:LYS:HB3	19:g:144:GLU:CG	2.20	0.68
24:E:122:MET:CE	25:F:344:ARG:NE	2.43	0.68
24:E:370:ALA:O	24:E:374:VAL:HG23	1.93	0.68
25:F:202:ILE:CD1	25:F:327:LYS:HB3	2.23	0.68
27:U:135:ASN:O	27:U:139:GLN:N	2.16	0.68
27:U:324:LYS:HE3	27:U:794:ASP:CB	2.19	0.68
1:C:113:ARG:NH2	2:D:102:ILE:HD13	2.08	0.68
2:D:245:ARG:HA	2:D:248:ARG:NH1	2.08	0.68
3:G:92:GLN:OE1	8:M:117:MET:HG3	1.92	0.68
3:G:126:THR:HG22	4:H:128:ARG:NH1	2.08	0.68
9:V:224:LEU:HG	9:V:257:ASN:CG	2.18	0.68
15:b:155:ALA:O	15:b:159:THR:HG22	1.92	0.68
17:d:171:LEU:HD12	17:d:171:LEU:O	1.93	0.68
25:F:220:PRO:HG2	25:F:350:ARG:CD	2.23	0.68
27:U:8:ILE:HG23	27:U:11:LEU:HD12	1.74	0.68
27:U:42:VAL:HG23	27:U:43:ASP:H	1.58	0.68
27:U:244:MET:HG2	27:U:903:PHE:CE2	2.27	0.68
27:U:446:LEU:HD21	27:U:457:ILE:HD12	1.75	0.68
27:U:748:LEU:HB3	27:U:760:VAL:CG2	2.23	0.68
1:C:214:VAL:HG21	1:C:234:LEU:HD22	1.74	0.68
2:D:380:GLN:NE2	24:E:164:ILE:HG23	2.09	0.68
3:G:101:TRP:CG	3:G:109:ILE:HB	2.27	0.68
9:V:68:ASP:OD1	9:V:112:VAL:HG22	1.94	0.68
11:X:46:LYS:HG2	11:X:76:PHE:CE1	2.28	0.68
14:a:122:LYS:HE3	14:a:130:VAL:HG13	1.74	0.68
14:a:290:GLN:OE1	14:a:332:HIS:HA	1.93	0.68
14:a:363:MET:HA	14:a:363:MET:HE2	1.75	0.68
15:b:7:MET:HB3	15:b:109:ILE:HD12	1.74	0.68
15:b:98:LYS:NZ	20:u:205:ASP:OD2	2.26	0.68
18:f:169:GLU:OE1	18:f:169:GLU:HA	1.93	0.68
22:A:161:VAL:HA	22:A:164:MET:CE	2.20	0.68
22:A:348:LEU:HD21	22:A:371:GLU:OE2	1.92	0.68
23:B:316:LEU:HD21	23:B:327:VAL:HG21	1.74	0.68
25:F:90:VAL:HG23	25:F:164:LEU:CD1	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:205:PRO:HB3	25:F:219:PRO:CB	2.23	0.68
25:F:311:LEU:HD13	25:F:314:LEU:HD12	1.75	0.68
25:F:339:ASP:HB2	25:F:342:LEU:HD23	1.73	0.68
27:U:554:LEU:HD22	27:U:761:VAL:HG22	1.74	0.68
27:U:748:LEU:CD2	27:U:760:VAL:HG22	2.23	0.68
1:C:31:LEU:HD12	1:C:31:LEU:O	1.93	0.68
1:C:165:ILE:CG1	1:C:292:ILE:HD11	2.24	0.68
2:D:102:ILE:O	2:D:102:ILE:HG23	1.93	0.68
2:D:418:LYS:HE3	4:H:76:TYR:OH	1.92	0.68
3:G:208:ILE:CD1	24:E:306:GLU:OE1	2.41	0.68
8:M:211:LEU:HG	8:M:213:LEU:HD11	1.74	0.68
10:W:377:ARG:HH21	10:W:381:LEU:HD21	1.59	0.68
14:a:112:ILE:HG21	14:a:151:VAL:CG1	2.08	0.68
14:a:205:LEU:CD2	14:a:237:LEU:HD13	2.23	0.68
15:b:135:LYS:NZ	20:u:140:GLU:O	2.24	0.68
18:f:190:GLU:O	18:f:193:PRO:HD2	1.93	0.68
18:f:535:THR:O	18:f:539:LEU:N	2.19	0.68
19:g:170:GLN:CG	19:g:173:GLU:HG3	2.13	0.68
25:F:177:VAL:O	25:F:180:ARG:NH2	2.27	0.68
27:U:177:LEU:HD21	27:U:205:TYR:OH	1.93	0.68
2:D:181:VAL:HG11	2:D:308:ILE:HG12	1.75	0.68
2:D:269:ALA:HB2	24:E:258:MET:HE1	1.73	0.68
10:W:30:GLU:O	10:W:34:LEU:HG	1.93	0.68
12:Y:76:ALA:HA	12:Y:79:ASP:OD2	1.93	0.68
14:a:118:ILE:HG12	14:a:122:LYS:HD3	1.76	0.68
15:b:107:MET:HE3	15:b:107:MET:CA	2.19	0.68
18:f:274:ASP:HB3	18:f:277:LEU:CD1	2.24	0.68
18:f:427:THR:HG23	19:g:156:LEU:HD11	1.76	0.68
18:f:527:VAL:HG11	18:f:794:ALA:HB2	1.75	0.68
18:f:797:LEU:O	18:f:801:VAL:HG22	1.93	0.68
18:f:828:ARG:HD2	18:f:874:LEU:H	1.58	0.68
24:E:198:VAL:HG11	24:E:218:MET:SD	2.32	0.68
25:F:206:MET:SD	25:F:280:PRO:HB2	2.34	0.68
25:F:279:ALA:HB1	25:F:280:PRO:CD	2.20	0.68
25:F:438:TYR:OH	26:K:19:GLY:O	2.12	0.68
26:K:217:LEU:HB2	26:K:234:LEU:CD1	2.23	0.68
27:U:14:GLU:HG3	27:U:19:LEU:HD21	1.74	0.68
27:U:213:PHE:HA	27:U:216:VAL:HG12	1.76	0.68
8:M:109:LYS:HA	8:M:149:TYR:CE2	2.24	0.68
9:V:116:ALA:O	9:V:120:PHE:N	2.22	0.68
9:V:329:HIS:CB	9:V:357:LEU:HD11	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:416:ARG:HB3	12:Y:348:ASP:OD1	1.94	0.68
9:V:488:ASN:O	9:V:492:LYS:HB3	1.94	0.68
14:a:96:PHE:CD1	14:a:99:LYS:HE2	2.22	0.68
18:f:342:PRO:HD3	18:f:387:GLN:NE2	2.08	0.68
18:f:384:ALA:HB2	18:f:419:LEU:HD13	1.75	0.68
19:g:123:GLN:CB	19:g:126:TYR:HB2	2.23	0.68
27:U:128:GLN:O	27:U:132:GLY:N	2.23	0.68
1:C:55:LYS:HZ1	2:D:72:PHE:HE1	1.38	0.68
2:D:57:GLN:O	2:D:61:ILE:HG22	1.93	0.68
4:H:154:ALA:HB2	5:I:80:THR:CG2	2.24	0.68
7:L:36:VAL:HG12	7:L:195:LEU:HG	1.75	0.68
8:M:186:CYS:O	8:M:190:VAL:HG23	1.93	0.68
10:W:268:LYS:HZ3	10:W:336:PRO:HD2	1.58	0.68
11:X:414:LEU:HD21	13:Z:273:HIS:CD2	2.29	0.68
12:Y:301:ILE:HG23	12:Y:343:LEU:CD1	2.23	0.68
12:Y:334:LEU:HB3	12:Y:347:ILE:HD11	1.76	0.68
14:a:28:LEU:HB3	14:a:33:LEU:CD1	2.23	0.68
14:a:278:MET:SD	14:a:319:LEU:HB3	2.33	0.68
16:c:126:ASP:O	16:c:129:THR:OG1	2.12	0.68
17:d:160:ASP:OD1	17:d:163:SER:N	2.18	0.68
17:d:229:PRO:O	17:d:233:GLU:N	2.24	0.68
18:f:862:ILE:HD12	18:f:881:GLU:HG3	1.76	0.68
22:A:159:PRO:O	22:A:163:MET:HG3	1.93	0.68
22:A:429:TYR:OH	26:K:33:LEU:HB3	1.93	0.68
23:B:193:GLN:O	23:B:197:ILE:HG22	1.94	0.68
23:B:423:LYS:O	23:B:427:LEU:HB2	1.94	0.68
26:K:212:ALA:HB2	26:K:235:GLU:HG3	1.76	0.68
27:U:27:LEU:O	27:U:31:VAL:HG23	1.94	0.68
27:U:688:LEU:HD22	27:U:713:TYR:HE1	1.58	0.68
1:C:134:LEU:HD13	1:C:230:MET:HE1	1.76	0.68
3:G:143:ILE:HG23	3:G:222:VAL:HG22	1.75	0.68
4:H:74:LEU:HB3	4:H:134:LEU:CD2	2.24	0.68
7:L:203:GLN:O	7:L:239:ARG:NH2	2.24	0.68
10:W:31:CYS:HB3	10:W:43:VAL:CG1	2.18	0.68
10:W:34:LEU:HB2	10:W:43:VAL:HG21	1.74	0.68
10:W:34:LEU:HA	10:W:37:GLU:CD	2.18	0.68
10:W:96:GLN:HG3	10:W:101:VAL:CG2	2.23	0.68
11:X:170:GLN:NE2	11:X:192:SER:HB3	2.09	0.68
11:X:297:ARG:HG3	11:X:330:LEU:HD11	1.74	0.68
18:f:87:THR:HG23	18:f:154:TRP:O	1.94	0.68
18:f:264:GLU:HG3	18:f:892:PRO:HG3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:g:83:ALA:HB1	19:g:150:ASN:ND2	2.09	0.68
23:B:107:MET:CE	23:B:151:LEU:HD22	2.24	0.68
3:G:117:ARG:O	3:G:121:ILE:HG12	1.93	0.68
7:L:126:ARG:NE	26:K:21:LEU:HD11	2.08	0.68
10:W:109:CYS:HA	10:W:112:VAL:HG23	1.73	0.68
10:W:236:HIS:ND1	10:W:237:GLU:OE2	2.19	0.68
11:X:339:ILE:HD11	11:X:350:ILE:CD1	2.23	0.68
12:Y:48:ASN:HB2	12:Y:50:MET:CE	2.24	0.68
14:a:54:ASP:CA	14:a:57:ILE:HG22	2.22	0.68
14:a:278:MET:HG2	14:a:335:TRP:CZ2	2.29	0.68
18:f:242:GLU:OE1	18:f:243:PRO:HA	1.94	0.68
19:g:166:ARG:HA	19:g:170:GLN:HG3	1.75	0.68
20:u:145:GLY:N	20:u:148:ASN:OD1	2.25	0.68
22:A:235:ALA:HB1	22:A:269:ALA:O	1.94	0.68
24:E:367:PHE:O	24:E:371:VAL:N	2.25	0.68
27:U:103:LYS:HA	27:U:106:ASP:HB3	1.76	0.68
1:C:50:ASN:HD21	27:U:639:LEU:HD11	1.58	0.68
1:C:180:ILE:HD12	1:C:180:ILE:O	1.94	0.68
2:D:103:VAL:HG11	2:D:132:LEU:CD2	2.24	0.68
2:D:203:LEU:HB2	2:D:327:LEU:HD13	1.76	0.68
2:D:378:ILE:O	2:D:382:SER:HB2	1.94	0.68
3:G:207:SER:C	3:G:208:ILE:HD13	2.19	0.68
4:H:50:LYS:HG2	4:H:52:GLN:HE22	1.59	0.68
8:M:233:GLU:O	8:M:237:LYS:HG2	1.94	0.68
11:X:213:GLN:O	11:X:217:ILE:HG12	1.93	0.68
12:Y:15:PRO:HD2	12:Y:146:ARG:HB3	1.74	0.68
13:Z:188:SER:CA	14:a:374:ILE:HD11	2.24	0.68
14:a:94:LEU:HD22	14:a:97:LEU:HD21	1.74	0.68
18:f:55:GLU:O	18:f:59:LEU:HD23	1.94	0.68
22:A:119:ALA:HB3	22:A:121:PHE:CZ	2.28	0.68
23:B:213:GLU:HG2	23:B:213:GLU:O	1.94	0.68
26:K:74:ILE:HG13	26:K:144:GLY:O	1.94	0.68
27:U:669:ILE:HD11	27:U:695:MET:HG3	1.75	0.68
1:C:46:GLN:CD	27:U:639:LEU:HD22	2.19	0.67
1:C:403:LYS:HB2	4:H:156:PHE:HE1	1.60	0.67
8:M:148:LEU:HD22	8:M:160:TYR:O	1.93	0.67
9:V:434:ALA:HA	9:V:437:ILE:HG22	1.74	0.67
10:W:109:CYS:O	10:W:112:VAL:HB	1.94	0.67
10:W:435:LEU:HG	13:Z:233:VAL:CG2	2.24	0.67
13:Z:74:TYR:CE1	13:Z:78:MET:HE3	2.29	0.67
16:c:307:VAL:HG23	17:d:332:SER:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:303:ALA:O	17:d:307:GLY:HA2	1.94	0.67
1:C:138:MET:SD	1:C:214:VAL:HG22	2.34	0.67
2:D:410:ASP:HB2	2:D:413:GLU:HG2	1.76	0.67
4:H:38:ILE:HD13	4:H:191:ALA:HB2	1.77	0.67
6:J:15:HIS:ND1	6:J:20:GLU:OE2	2.26	0.67
7:L:66:VAL:HG21	7:L:72:ILE:CG2	2.24	0.67
8:M:108:LEU:HD22	8:M:139:SER:CB	2.19	0.67
9:V:117:VAL:HG11	9:V:131:LEU:HD11	1.75	0.67
9:V:434:ALA:O	9:V:438:VAL:N	2.19	0.67
10:W:267:LEU:HD23	10:W:270:VAL:HG11	1.74	0.67
13:Z:225:GLN:OE1	13:Z:226:ILE:HG12	1.94	0.67
14:a:54:ASP:O	14:a:58:LYS:HB2	1.94	0.67
18:f:809:ILE:O	18:f:814:SER:OG	2.07	0.67
27:U:14:GLU:HB2	27:U:19:LEU:HD23	1.76	0.67
27:U:485:ALA:HB1	27:U:488:THR:HG21	1.77	0.67
1:C:165:ILE:HG23	1:C:245:ILE:HD13	1.77	0.67
2:D:282:ASP:HA	2:D:285:VAL:HG12	1.76	0.67
3:G:143:ILE:HG13	3:G:221:THR:O	1.93	0.67
3:G:230:LEU:O	3:G:235:ILE:HD11	1.93	0.67
5:I:68:LEU:CD1	5:I:90:LEU:HD13	2.24	0.67
5:I:233:VAL:O	5:I:237:ILE:HG12	1.93	0.67
9:V:117:VAL:CG1	9:V:131:LEU:HD11	2.25	0.67
11:X:343:SER:O	11:X:344:ARG:HG3	1.94	0.67
14:a:45:VAL:HG21	14:a:79:ILE:HD11	1.76	0.67
15:b:24:THR:HG22	15:b:26:LEU:H	1.59	0.67
17:d:84:SER:O	17:d:88:LEU:N	2.23	0.67
18:f:835:GLU:OE2	18:f:902:LYS:N	2.24	0.67
27:U:137:MET:HA	27:U:140:ARG:HB2	1.75	0.67
27:U:405:THR:OG1	27:U:441:GLY:HA3	1.95	0.67
1:C:392:GLN:O	1:C:393:LYS:HD3	1.94	0.67
2:D:361:GLU:HG3	2:D:361:GLU:O	1.95	0.67
6:J:220:LEU:HD13	6:J:224:GLU:OE1	1.94	0.67
9:V:240:LEU:HD11	27:U:69:TYR:HE1	1.59	0.67
13:Z:59:ASP:HB3	15:b:95:LEU:HD21	1.75	0.67
14:a:58:LYS:O	14:a:62:ASN:HB2	1.94	0.67
16:c:62:VAL:HG13	16:c:66:THR:HG23	1.76	0.67
18:f:93:PRO:HB2	18:f:96:LEU:HD12	1.77	0.67
18:f:129:LEU:HD23	18:f:129:LEU:O	1.94	0.67
18:f:268:LEU:HD13	18:f:271:MET:SD	2.34	0.67
18:f:831:VAL:CG2	18:f:871:PRO:HB3	2.15	0.67
18:f:852:VAL:HG23	18:f:859:PRO:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:164:MET:HG2	22:A:239:ARG:O	1.95	0.67
23:B:250:VAL:CG2	23:B:284:ILE:HA	2.24	0.67
1:C:77:VAL:HB	1:C:86:LEU:CD2	2.25	0.67
1:C:277:LEU:HD11	1:C:304:ALA:HB3	1.75	0.67
1:C:368:MET:HE1	1:C:371:LEU:HD22	1.76	0.67
2:D:205:TYR:HB2	2:D:314:ALA:HB2	1.76	0.67
6:J:65:LEU:HD11	6:J:71:MET:SD	2.34	0.67
9:V:282:ASN:OD1	9:V:315:LYS:HD2	1.95	0.67
11:X:298:SER:HB3	11:X:301:ASP:HB2	1.75	0.67
14:a:160:SER:O	14:a:163:TYR:HB3	1.93	0.67
17:d:87:VAL:HG12	17:d:126:LEU:HD11	1.77	0.67
17:d:95:TYR:CD1	17:d:99:LYS:HB2	2.29	0.67
18:f:460:ASP:OD1	18:f:463:LEU:HB3	1.94	0.67
18:f:735:GLY:HA2	18:f:774:GLY:HA2	1.77	0.67
19:g:83:ALA:HB3	19:g:149:HIS:CB	2.24	0.67
19:g:136:LEU:HD13	19:g:138:LEU:HD21	1.77	0.67
22:A:224:LEU:HB2	29:A:501:ATP:H3'	1.77	0.67
22:A:333:ARG:HE	22:A:336:ARG:NH1	1.93	0.67
27:U:82:LEU:HD11	27:U:130:LEU:N	2.09	0.67
8:M:197:ILE:HD13	8:M:211:LEU:CD1	2.25	0.67
10:W:431:LYS:HZ1	13:Z:238:PRO:HA	1.58	0.67
11:X:331:LEU:HD23	11:X:364:LYS:HG2	1.76	0.67
12:Y:101:ARG:HD2	12:Y:131:THR:HA	1.76	0.67
14:a:38:THR:HB	14:a:71:VAL:HG13	1.75	0.67
14:a:45:VAL:HG21	14:a:79:ILE:CG1	2.23	0.67
18:f:474:SER:HB3	18:f:477:MET:CG	2.18	0.67
18:f:478:ARG:HD2	18:f:514:VAL:HG11	1.76	0.67
23:B:197:ILE:CG2	23:B:235:LEU:HD21	2.07	0.67
25:F:410:ARG:NH2	25:F:419:ASP:OD1	2.27	0.67
4:H:173:PHE:O	4:H:176:LYS:HB2	1.94	0.67
8:M:192:GLU:HA	8:M:195:LYS:HG2	1.75	0.67
9:V:171:VAL:O	9:V:175:MET:HG2	1.95	0.67
12:Y:220:VAL:HG11	12:Y:249:VAL:CG1	2.25	0.67
13:Z:209:ARG:HB2	14:a:353:LEU:HD21	1.76	0.67
14:a:117:ALA:O	14:a:121:LEU:HD12	1.94	0.67
18:f:210:GLU:HA	18:f:210:GLU:OE1	1.93	0.67
18:f:485:LEU:HD21	18:f:497:VAL:HG13	1.76	0.67
19:g:92:ARG:HB3	19:g:157:GLU:OE1	1.95	0.67
25:F:178:ASP:HA	25:F:180:ARG:NH2	2.09	0.67
27:U:46:GLU:HG3	27:U:80:TYR:OH	1.93	0.67
27:U:746:ILE:HA	27:U:782:ALA:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:846:LYS:O	27:U:850:GLU:HG2	1.94	0.67
5:I:86:LEU:CD1	5:I:114:LEU:HD11	2.24	0.67
5:I:98:LEU:HD12	5:I:98:LEU:O	1.94	0.67
6:J:212:ARG:HB2	6:J:215:GLN:CD	2.19	0.67
7:L:6:TYR:CD2	7:L:15:PRO:HD3	2.30	0.67
12:Y:95:LEU:HB3	12:Y:99:GLU:HB2	1.77	0.67
14:a:216:LEU:HD13	14:a:237:LEU:HB3	1.75	0.67
14:a:319:LEU:O	14:a:320:VAL:HG23	1.94	0.67
24:E:238:ILE:H	24:E:238:ILE:HD12	1.60	0.67
24:E:330:ALA:O	24:E:334:LEU:HG	1.95	0.67
1:C:406:LYS:HG2	5:I:64:LYS:NZ	2.10	0.67
3:G:10:ASP:O	3:G:12:HIS:N	2.28	0.67
3:G:50:ILE:HD13	3:G:141:ILE:HD13	1.75	0.67
7:L:40:SER:CB	7:L:187:LEU:HD22	2.25	0.67
7:L:74:ILE:CG2	7:L:81:ALA:HB1	2.25	0.67
12:Y:17:LEU:HD21	12:Y:146:ARG:HG2	1.76	0.67
14:a:21:VAL:HG12	14:a:44:PHE:CE1	2.29	0.67
14:a:243:GLY:HA2	14:a:272:ILE:HD11	1.76	0.67
17:d:323:GLN:O	17:d:324:LYS:HG3	1.95	0.67
18:f:231:LEU:CG	18:f:853:VAL:HG22	2.24	0.67
20:u:256:GLU:OE1	20:u:256:GLU:N	2.28	0.67
22:A:146:LYS:HB2	22:A:146:LYS:NZ	2.09	0.67
22:A:269:ALA:HA	22:A:314:ASN:OD1	1.95	0.67
22:A:394:MET:HE1	23:B:199:GLU:HB3	1.77	0.67
24:E:147:GLU:HA	24:E:151:LEU:CD1	2.25	0.67
25:F:238:ARG:HA	25:F:241:ALA:HB3	1.77	0.67
26:K:181:LEU:CD1	26:K:201:ILE:HD12	2.24	0.67
26:K:203:LYS:HB2	26:K:210:LEU:HD23	1.77	0.67
27:U:658:ILE:HD11	27:U:767:THR:CG2	2.25	0.67
8:M:211:LEU:HG	8:M:213:LEU:CD1	2.25	0.67
9:V:375:PHE:CE1	9:V:379:LEU:HD11	2.29	0.67
10:W:413:ILE:HG22	10:W:413:ILE:O	1.93	0.67
10:W:431:LYS:NZ	13:Z:238:PRO:HA	2.09	0.67
11:X:112:GLU:HA	11:X:115:GLU:HG2	1.76	0.67
12:Y:155:ASP:O	12:Y:159:ARG:HG3	1.95	0.67
12:Y:202:LEU:HD11	12:Y:231:LEU:HD11	1.76	0.67
13:Z:11:VAL:HG13	13:Z:15:VAL:HG11	1.77	0.67
13:Z:142:GLU:OE2	13:Z:153:LYS:HD2	1.95	0.67
13:Z:242:LEU:O	13:Z:246:VAL:HG23	1.94	0.67
14:a:80:ILE:CA	14:a:83:VAL:HB	2.22	0.67
18:f:373:ALA:HB2	18:f:760:PHE:CD1	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:489:TYR:CD2	18:f:497:VAL:HG21	2.30	0.67
18:f:646:MET:O	18:f:647:GLY:HA2	1.95	0.67
23:B:335:GLU:OE1	23:B:335:GLU:N	2.21	0.67
25:F:436:GLN:HE22	26:K:28:ILE:HD13	1.59	0.67
1:C:164:VAL:O	1:C:290:LYS:HD2	1.95	0.66
1:C:384:GLU:HA	1:C:387:VAL:HG12	1.75	0.66
2:D:107:THR:HA	24:E:77:PRO:HG3	1.76	0.66
8:M:25:TYR:O	8:M:28:LYS:HG2	1.94	0.66
8:M:227:VAL:HB	8:M:232:ARG:HH12	1.61	0.66
9:V:66:GLU:HA	9:V:69:THR:HG22	1.75	0.66
9:V:86:VAL:O	9:V:89:LYS:NZ	2.28	0.66
11:X:99:MET:SD	11:X:100:GLU:N	2.69	0.66
15:b:24:THR:O	15:b:27:GLN:NE2	2.22	0.66
15:b:35:ILE:HG21	15:b:184:ILE:CG2	2.25	0.66
19:g:89:LEU:HD23	19:g:155:VAL:CB	2.25	0.66
23:B:201:VAL:HG21	23:B:239:VAL:HG21	1.77	0.66
26:K:236:GLU:HA	26:K:239:LYS:CE	2.21	0.66
1:C:301:LEU:HD12	1:C:306:LEU:HD21	1.77	0.66
2:D:388:ARG:NH2	24:E:297:ARG:NH1	2.43	0.66
5:I:100:GLN:HG2	5:I:101:TYR:CD1	2.30	0.66
5:I:159:TRP:CD2	6:J:54:GLN:HB3	2.29	0.66
9:V:213:TYR:O	9:V:217:VAL:HG13	1.96	0.66
9:V:447:ILE:HG22	9:V:448:GLU:N	2.10	0.66
10:W:364:ARG:O	10:W:368:LYS:HE2	1.95	0.66
10:W:370:TYR:HD2	10:W:373:ILE:HB	1.60	0.66
13:Z:37:GLY:HA2	13:Z:56:VAL:HG22	1.75	0.66
13:Z:230:LEU:O	13:Z:233:VAL:HG12	1.95	0.66
18:f:256:PHE:CE2	18:f:264:GLU:HB3	2.30	0.66
18:f:340:MET:O	18:f:387:GLN:NE2	2.28	0.66
18:f:433:LEU:HB3	19:g:172:GLU:CA	2.25	0.66
18:f:513:GLU:HA	18:f:554:TYR:HD2	1.59	0.66
19:g:113:ARG:HB3	19:g:138:LEU:HD13	1.76	0.66
23:B:112:LEU:CD1	23:B:123:VAL:HG12	2.25	0.66
24:E:60:VAL:HG22	24:E:71:VAL:HG22	1.77	0.66
24:E:122:MET:O	24:E:125:GLU:N	2.28	0.66
25:F:145:LEU:HD11	25:F:151:VAL:HG11	1.78	0.66
25:F:435:LEU:HD12	25:F:435:LEU:H	1.60	0.66
27:U:587:ALA:HB1	27:U:624:PHE:CD2	2.29	0.66
1:C:52:LEU:O	1:C:56:VAL:HG23	1.96	0.66
1:C:232:ARG:CZ	1:C:232:ARG:HB2	2.26	0.66
9:V:176:MET:HE1	9:V:213:TYR:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:54:ASP:HA	14:a:57:ILE:CG2	2.19	0.66
14:a:153:SER:HB2	14:a:179:PHE:CE1	2.30	0.66
14:a:159:SER:HA	14:a:162:TYR:CB	2.22	0.66
15:b:127:LEU:CD2	15:b:130:ARG:HH22	2.05	0.66
18:f:261:ARG:HB3	18:f:264:GLU:OE1	1.94	0.66
19:g:116:ILE:HG22	19:g:127:ILE:CD1	2.25	0.66
23:B:248:LEU:HD22	23:B:270:LEU:CD1	2.24	0.66
23:B:372:MET:CE	23:B:414:VAL:HG11	2.25	0.66
23:B:383:LEU:HD22	23:B:398:ILE:HD11	1.75	0.66
24:E:228:CYS:O	24:E:273:VAL:HG23	1.95	0.66
24:E:352:MET:CE	24:E:355:ILE:HD13	2.26	0.66
27:U:559:ARG:CB	27:U:562:GLU:HB2	2.22	0.66
27:U:799:LYS:HG3	27:U:925:VAL:CG2	2.26	0.66
28:e:41:ASP:OD1	28:e:41:ASP:N	2.28	0.66
1:C:331:ILE:O	1:C:334:ARG:NE	2.29	0.66
2:D:97:ASP:OD1	2:D:100:THR:HG22	1.96	0.66
2:D:148:ASP:O	2:D:153:MET:HE2	1.95	0.66
2:D:184:PRO:HG2	2:D:306:LYS:HZ1	1.60	0.66
3:G:143:ILE:HD11	3:G:220:VAL:HG13	1.75	0.66
3:G:196:GLU:HA	3:G:242:LEU:HD21	1.76	0.66
6:J:68:ASN:HB2	6:J:137:ASP:OD2	1.96	0.66
7:L:117:GLN:HG3	8:M:86:SER:OG	1.95	0.66
7:L:176:MET:HA	7:L:179:PHE:CD2	2.29	0.66
8:M:75:MET:HE1	8:M:88:ALA:CB	2.26	0.66
17:d:261:ASP:HA	17:d:264:LEU:CD1	2.21	0.66
17:d:286:GLU:O	17:d:290:ILE:HG13	1.96	0.66
22:A:426:THR:HB	22:A:427:PRO:HD3	1.78	0.66
25:F:141:ASP:HB3	25:F:143:GLU:OE1	1.95	0.66
1:C:240:GLU:HG3	1:C:241:HIS:CD2	2.29	0.66
3:G:80:MET:HB3	3:G:87:SER:HB2	1.75	0.66
5:I:105:ILE:HD11	5:I:110:LEU:HA	1.76	0.66
6:J:64:ALA:HA	6:J:70:CYS:HA	1.76	0.66
9:V:131:LEU:HD13	9:V:171:VAL:HG21	1.76	0.66
9:V:282:ASN:HD21	12:Y:385:ARG:CB	2.09	0.66
9:V:428:LEU:HD11	9:V:437:ILE:HG21	1.77	0.66
10:W:341:PHE:CE2	10:W:354:LEU:HD22	2.31	0.66
11:X:89:VAL:HG11	11:X:125:LEU:HD21	1.77	0.66
11:X:200:ILE:HG13	11:X:201:TYR:H	1.61	0.66
11:X:397:TYR:CE1	13:Z:258:VAL:HG21	2.30	0.66
13:Z:237:LEU:HD13	16:c:310:LYS:HG2	1.77	0.66
14:a:84:VAL:CG2	14:a:121:LEU:HD21	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:35:ILE:HG23	15:b:188:ILE:HD12	1.76	0.66
16:c:151:VAL:HG13	16:c:152:LYS:HG2	1.78	0.66
18:f:89:MET:HE3	23:B:411:ARG:HD2	1.78	0.66
25:F:184:GLN:O	25:F:187:ASP:N	2.15	0.66
1:C:279:GLN:OE1	1:C:279:GLN:HA	1.95	0.66
1:C:399:MET:HE2	1:C:402:LYS:HD2	1.76	0.66
2:D:120:ASP:HB3	2:D:122:GLU:OE1	1.95	0.66
2:D:370:ILE:CG2	2:D:407:ILE:HD11	2.24	0.66
3:G:49:VAL:HG21	3:G:195:VAL:HG22	1.78	0.66
9:V:204:ASP:HB3	9:V:243:ASP:OD2	1.95	0.66
9:V:454:GLU:OE2	17:d:281:LYS:HD2	1.95	0.66
9:V:493:ALA:O	9:V:495:ARG:N	2.27	0.66
10:W:278:PRO:HA	10:W:357:ARG:HE	1.60	0.66
12:Y:14:ASN:HD21	12:Y:113:ARG:NH1	1.94	0.66
13:Z:109:ASN:O	13:Z:113:LYS:HG3	1.95	0.66
13:Z:198:LEU:HB3	14:a:364:GLU:HB2	1.77	0.66
14:a:72:ASN:OD1	14:a:73:PRO:HD2	1.95	0.66
15:b:138:VAL:HG13	15:b:160:LEU:HD11	1.76	0.66
17:d:153:GLN:HA	17:d:156:ILE:CD1	2.26	0.66
18:f:205:CYS:SG	18:f:229:VAL:HG23	2.35	0.66
18:f:670:MET:HE1	23:B:68:ILE:HG23	1.76	0.66
19:g:127:ILE:O	19:g:162:GLU:HB3	1.96	0.66
19:g:141:THR:HG22	19:g:144:GLU:OE2	1.96	0.66
22:A:211:GLY:HA2	22:A:317:VAL:O	1.96	0.66
25:F:181:PRO:HD2	25:F:238:ARG:HD3	1.78	0.66
26:K:78:MET:HE2	26:K:85:ALA:HB1	1.76	0.66
2:D:277:ALA:CB	2:D:283:ARG:HG2	2.25	0.66
8:M:136:MET:CE	8:M:148:LEU:HD21	2.26	0.66
8:M:187:ARG:CD	8:M:219:LEU:HD21	2.25	0.66
9:V:497:PRO:HG3	13:Z:282:ASN:HB2	1.78	0.66
11:X:340:GLU:HB3	11:X:341:PRO:HD3	1.75	0.66
12:Y:20:ALA:HB2	12:Y:150:PHE:CD1	2.31	0.66
13:Z:26:ILE:HD11	16:c:102:THR:O	1.96	0.66
15:b:22:LEU:HB2	15:b:23:PRO:HD3	1.77	0.66
16:c:177:THR:CB	27:U:773:PHE:HB2	2.26	0.66
17:d:293:PHE:HD1	17:d:298:LYS:HE3	1.58	0.66
23:B:269:GLU:OE1	23:B:269:GLU:HA	1.95	0.66
24:E:98:VAL:HG21	24:E:107:ILE:HG12	1.77	0.66
24:E:351:GLY:HA3	25:F:217:ILE:CD1	2.25	0.66
27:U:250:PHE:CE2	27:U:911:ILE:HG21	2.31	0.66
27:U:567:ILE:HD13	27:U:586:VAL:CG2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:32:ILE:HD13	3:G:137:CYS:SG	2.35	0.66
5:I:75:SER:O	5:I:134:LEU:HB2	1.96	0.66
7:L:40:SER:CB	7:L:182:CYS:HB2	2.25	0.66
12:Y:292:TYR:OH	12:Y:293:ARG:NH2	2.28	0.66
12:Y:384:SER:O	12:Y:388:ASN:ND2	2.29	0.66
13:Z:267:ARG:CZ	17:d:346:LEU:HD23	2.26	0.66
14:a:50:PHE:HD2	14:a:52:GLN:HB3	1.60	0.66
17:d:190:GLN:NE2	17:d:194:LEU:HD11	2.11	0.66
18:f:386:GLY:HA2	18:f:418:LEU:HD11	1.77	0.66
22:A:193:THR:HB	22:A:194:PRO:HD3	1.76	0.66
2:D:417:TYR:OH	3:G:22:LEU:N	2.29	0.66
5:I:93:ILE:HD13	5:I:113:ALA:HB1	1.77	0.66
8:M:98:PHE:CE1	8:M:106:ILE:HA	2.30	0.66
9:V:169:LEU:HD22	9:V:210:CYS:SG	2.35	0.66
9:V:338:LEU:HD23	9:V:398:LEU:HD12	1.77	0.66
10:W:18:VAL:HB	10:W:57:ALA:CB	2.23	0.66
10:W:61:VAL:O	10:W:64:SER:OG	2.07	0.66
10:W:373:ILE:HG22	10:W:415:PHE:HE1	1.60	0.66
15:b:151:GLU:HA	15:b:154:THR:CG2	2.25	0.66
17:d:188:MET:O	17:d:192:LEU:HD23	1.94	0.66
22:A:92:PRO:HD3	23:B:156:VAL:CG1	2.19	0.66
23:B:139:VAL:HG21	23:B:159:VAL:HG12	1.78	0.66
25:F:181:PRO:HG2	25:F:238:ARG:NH1	2.11	0.66
27:U:108:TYR:HD2	27:U:134:VAL:HG11	1.61	0.66
27:U:624:PHE:CE1	27:U:658:ILE:HG21	2.30	0.66
27:U:803:LYS:CG	27:U:893:THR:HB	2.17	0.66
6:J:51:ALA:HB3	6:J:54:GLN:HG3	1.78	0.66
7:L:72:ILE:C	7:L:72:ILE:HD12	2.21	0.66
8:M:140:TYR:CG	8:M:217:GLY:HA2	2.31	0.66
8:M:173:LYS:O	8:M:177:GLU:N	2.27	0.66
8:M:185:THR:HG23	8:M:187:ARG:HB2	1.78	0.66
14:a:122:LYS:CE	14:a:130:VAL:HG13	2.26	0.66
14:a:192:GLU:O	14:a:196:ARG:HG3	1.96	0.66
14:a:216:LEU:HD13	14:a:237:LEU:CG	2.26	0.66
15:b:130:ARG:HH21	15:b:131:LEU:CD2	2.09	0.66
18:f:241:PRO:HB3	27:U:835:ILE:HG21	1.77	0.66
18:f:801:VAL:HA	18:f:804:LEU:HD12	1.78	0.66
18:f:832:THR:CG2	18:f:870:THR:HG21	2.26	0.66
22:A:146:LYS:HB2	22:A:146:LYS:HZ3	1.61	0.66
22:A:194:PRO:HG3	22:A:201:PHE:CZ	2.30	0.66
25:F:197:GLU:HG2	25:F:352:ILE:CD1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:345:ARG:HH11	1:C:345:ARG:HG3	1.61	0.65
3:G:69:LEU:HD23	3:G:229:ILE:HG12	1.78	0.65
4:H:29:VAL:CG1	4:H:133:SER:HB3	2.26	0.65
5:I:25:MET:HE1	23:B:438:LEU:HD11	1.77	0.65
5:I:133:SER:OG	5:I:164:ILE:HG21	1.96	0.65
8:M:87:LEU:HD22	8:M:131:PHE:CD2	2.30	0.65
8:M:212:GLU:C	8:M:213:LEU:HD12	2.20	0.65
9:V:259:LEU:HG	9:V:264:TYR:CE1	2.29	0.65
13:Z:227:ILE:HG13	14:a:346:ILE:HD11	1.78	0.65
14:a:112:ILE:HD13	14:a:138:VAL:CG2	2.21	0.65
18:f:271:MET:CE	18:f:786:GLN:HB3	2.26	0.65
25:F:185:TYR:CD1	25:F:239:ALA:HB1	2.32	0.65
27:U:192:GLN:OE1	27:U:192:GLN:N	2.26	0.65
27:U:227:GLN:O	27:U:230:SER:OG	2.08	0.65
27:U:538:GLU:HG3	27:U:538:GLU:O	1.95	0.65
27:U:873:PRO:HB3	27:U:876:GLN:HG3	1.77	0.65
1:C:288:ASN:O	1:C:289:ILE:HD13	1.96	0.65
9:V:113:LEU:O	9:V:117:VAL:HG13	1.95	0.65
9:V:123:SER:HB2	9:V:125:ASN:CG	2.21	0.65
14:a:79:ILE:O	14:a:83:VAL:HG23	1.96	0.65
14:a:160:SER:CA	14:a:163:TYR:HB3	2.26	0.65
14:a:245:VAL:O	14:a:246:GLU:HG3	1.97	0.65
16:c:145:VAL:O	16:c:147:PRO:HD3	1.96	0.65
27:U:902:PRO:HA	27:U:914:LEU:HA	1.78	0.65
1:C:307:ARG:HG3	1:C:307:ARG:O	1.95	0.65
1:C:351:MET:HG2	1:C:391:MET:HE3	1.77	0.65
2:D:92:PHE:CE1	2:D:124:LEU:HD13	2.31	0.65
3:G:232:GLU:H	3:G:232:GLU:CD	2.03	0.65
4:H:74:LEU:HB2	4:H:83:TYR:OH	1.96	0.65
6:J:183:THR:CB	6:J:186:LEU:HB2	2.26	0.65
7:L:38:LEU:HD23	7:L:45:VAL:O	1.96	0.65
7:L:56:LEU:HD23	7:L:56:LEU:H	1.61	0.65
9:V:214:HIS:O	9:V:217:VAL:HG22	1.95	0.65
12:Y:97:GLU:HA	12:Y:100:ILE:HD11	1.77	0.65
13:Z:86:ASN:HB3	13:Z:89:GLU:OE1	1.96	0.65
14:a:257:GLN:NE2	14:a:259:PRO:O	2.30	0.65
15:b:48:ASN:HA	15:b:66:PRO:HA	1.76	0.65
15:b:180:ALA:O	15:b:184:ILE:N	2.29	0.65
17:d:163:SER:HA	17:d:166:ARG:HD2	1.79	0.65
18:f:479:LEU:HD11	18:f:513:GLU:CG	2.25	0.65
18:f:542:ILE:HD12	18:f:562:LEU:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:833:PHE:HD1	18:f:839:PRO:HA	1.61	0.65
19:g:128:LYS:C	19:g:129:ILE:HD13	2.22	0.65
22:A:177:VAL:HG11	22:A:225:CYS:SG	2.37	0.65
9:V:101:LEU:O	9:V:105:SER:N	2.29	0.65
10:W:140:ILE:HD12	10:W:140:ILE:H	1.62	0.65
11:X:93:LEU:HD22	11:X:129:LEU:CD1	2.26	0.65
12:Y:17:LEU:HG	12:Y:213:LEU:HD13	1.77	0.65
18:f:301:HIS:ND1	18:f:301:HIS:O	2.30	0.65
18:f:562:LEU:HD22	18:f:595:VAL:CG1	2.27	0.65
19:g:117:ALA:HA	19:g:122:LEU:HB2	1.77	0.65
25:F:288:LEU:HB3	25:F:332:THR:OG1	1.95	0.65
27:U:163:PHE:CE2	27:U:197:VAL:HG13	2.28	0.65
27:U:188:MET:HE2	27:U:188:MET:CA	2.27	0.65
27:U:412:HIS:O	27:U:449:ILE:HG12	1.96	0.65
1:C:114:VAL:HG11	1:C:123:LEU:HD11	1.78	0.65
3:G:37:LEU:HD12	3:G:68:HIS:CE1	2.31	0.65
4:H:65:VAL:HG12	4:H:218:PHE:HZ	1.62	0.65
7:L:112:ILE:O	7:L:116:THR:HG23	1.96	0.65
10:W:112:VAL:HG13	10:W:121:LYS:HZ1	1.61	0.65
10:W:171:VAL:HA	10:W:174:TYR:CD2	2.31	0.65
10:W:270:VAL:HG22	10:W:290:ILE:HD12	1.79	0.65
11:X:57:LEU:O	11:X:61:GLY:N	2.30	0.65
11:X:208:ALA:HB1	11:X:239:TYR:CD2	2.31	0.65
13:Z:37:GLY:HA3	13:Z:95:TYR:CE2	2.30	0.65
14:a:84:VAL:HA	14:a:87:MET:CG	2.27	0.65
16:c:177:THR:CB	27:U:774:PRO:HD3	2.26	0.65
18:f:655:LEU:HD21	18:f:800:LEU:HB3	1.78	0.65
18:f:830:LEU:CD2	18:f:846:VAL:HG21	2.26	0.65
18:f:830:LEU:HD21	18:f:846:VAL:HG21	1.79	0.65
19:g:128:LYS:O	19:g:129:ILE:HD13	1.96	0.65
22:A:334:PRO:CB	25:F:398:ALA:HB2	2.26	0.65
24:E:152:PRO:CG	24:E:274:LYS:HE2	2.27	0.65
26:K:70:ILE:HB	26:K:74:ILE:HG23	1.78	0.65
27:U:241:ASN:O	27:U:243:LEU:N	2.30	0.65
1:C:214:VAL:CG1	1:C:219:LEU:HD21	2.26	0.65
1:C:338:LEU:HD21	1:C:342:ILE:HG12	1.79	0.65
2:D:236:VAL:O	2:D:236:VAL:HG12	1.96	0.65
3:G:131:MET:HG2	8:M:125:TYR:HE1	1.61	0.65
8:M:136:MET:HE1	8:M:148:LEU:HD21	1.79	0.65
9:V:175:MET:O	9:V:180:ARG:N	2.28	0.65
10:W:378:MET:HE1	10:W:393:LEU:HD22	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:188:LEU:HD11	14:a:193:GLN:HG3	1.78	0.65
15:b:26:LEU:HD11	15:b:80:PRO:HB3	1.77	0.65
16:c:144:VAL:HG12	16:c:145:VAL:H	1.62	0.65
17:d:259:PHE:HA	17:d:262:ILE:CD1	2.26	0.65
23:B:332:ASN:OD1	23:B:332:ASN:N	2.29	0.65
24:E:245:GLU:OE2	24:E:254:GLN:NE2	2.26	0.65
25:F:69:MET:HG3	25:F:73:ILE:HD13	1.77	0.65
25:F:268:VAL:HG11	25:F:313:LEU:CA	2.27	0.65
28:e:18:GLU:OE1	28:e:18:GLU:N	2.21	0.65
1:C:37:ASP:OD1	1:C:38:LYS:N	2.30	0.65
1:C:271:ARG:CZ	23:B:305:ILE:HD13	2.26	0.65
6:J:68:ASN:HA	6:J:211:MET:CE	2.26	0.65
8:M:87:LEU:HD22	8:M:131:PHE:HD2	1.60	0.65
10:W:60:MET:CA	10:W:97:LEU:HD12	2.27	0.65
10:W:287:VAL:HA	10:W:290:ILE:HG22	1.78	0.65
15:b:29:GLN:HB2	15:b:112:PHE:HD2	1.61	0.65
15:b:157:VAL:CG2	15:b:170:LEU:HB2	2.25	0.65
17:d:89:GLN:O	17:d:93:GLY:N	2.25	0.65
17:d:223:ASN:CB	17:d:226:ILE:HD12	2.26	0.65
18:f:56:LEU:O	18:f:60:VAL:HG12	1.97	0.65
22:A:213:LEU:CB	22:A:337:LEU:HD13	2.26	0.65
24:E:150:GLU:HG2	24:E:191:LEU:HD11	1.79	0.65
24:E:165:ILE:CG2	24:E:166:PRO:HD2	2.26	0.65
26:K:78:MET:HE2	26:K:85:ALA:CB	2.26	0.65
27:U:247:GLN:HG2	27:U:913:ILE:CG1	2.25	0.65
27:U:806:CYS:SG	27:U:874:ASN:HB3	2.37	0.65
9:V:176:MET:HE3	9:V:217:VAL:HG13	1.79	0.65
9:V:403:ILE:O	9:V:407:VAL:HG23	1.97	0.65
10:W:239:SER:O	10:W:243:ILE:HG13	1.97	0.65
10:W:274:VAL:HG11	10:W:290:ILE:HG21	1.79	0.65
11:X:90:ARG:O	11:X:93:LEU:HG	1.97	0.65
11:X:255:LEU:HD22	11:X:267:VAL:HG23	1.77	0.65
12:Y:381:GLN:HA	12:Y:384:SER:OG	1.97	0.65
18:f:66:LYS:HA	18:f:71:TYR:OH	1.97	0.65
19:g:101:LEU:HD11	19:g:116:ILE:O	1.97	0.65
23:B:46:ALA:HB3	23:B:179:ALA:HB2	1.78	0.65
24:E:168:LYS:HA	24:E:274:LYS:HD2	1.78	0.65
27:U:171:ASN:O	27:U:173:VAL:N	2.30	0.65
27:U:221:ILE:CD1	27:U:256:ALA:HB2	2.27	0.65
27:U:688:LEU:HD22	27:U:713:TYR:CE1	2.32	0.65
27:U:888:GLN:OE1	27:U:888:GLN:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:248:MET:HE1	1:C:276:LEU:HD12	1.79	0.65
2:D:381:GLU:OE2	2:D:405:THR:HG21	1.97	0.65
5:I:36:GLY:O	5:I:161:ALA:HA	1.96	0.65
5:I:136:TYR:HE1	5:I:150:SER:HB2	1.61	0.65
12:Y:48:ASN:HB3	12:Y:113:ARG:HG3	1.78	0.65
13:Z:40:LEU:HD11	13:Z:54:PHE:CE2	2.32	0.65
17:d:88:LEU:HD12	17:d:92:THR:HG23	1.79	0.65
17:d:108:ASN:OD1	17:d:111:LYS:N	2.20	0.65
18:f:160:ARG:NH2	18:f:203:GLU:OE2	2.30	0.65
18:f:416:MET:HE2	18:f:819:TYR:HE1	1.62	0.65
19:g:138:LEU:HD12	19:g:162:GLU:CG	2.27	0.65
19:g:170:GLN:HA	19:g:173:GLU:CB	2.26	0.65
22:A:48:VAL:HG21	23:B:62:LEU:CD1	2.27	0.65
22:A:246:VAL:HG21	23:B:307:ARG:CD	2.26	0.65
25:F:343:LEU:CD2	25:F:351:LYS:HD2	2.25	0.65
27:U:902:PRO:HG3	27:U:906:LEU:CD2	2.26	0.65
5:I:86:LEU:HD21	5:I:118:LYS:HZ2	1.61	0.65
8:M:117:MET:HE2	8:M:117:MET:HA	1.76	0.65
9:V:114:TYR:CE2	9:V:118:GLN:HG3	2.31	0.65
10:W:20:TYR:O	10:W:24:VAL:HG12	1.97	0.65
11:X:376:GLY:O	11:X:377:ILE:HG12	1.97	0.65
12:Y:192:ARG:HD3	12:Y:294:TYR:CD2	2.31	0.65
12:Y:316:LEU:HD22	12:Y:327:VAL:HG13	1.77	0.65
14:a:61:GLU:HG3	14:a:79:ILE:HD13	1.79	0.65
14:a:113:LEU:HA	14:a:116:THR:OG1	1.97	0.65
15:b:38:HIS:O	15:b:42:ARG:HD3	1.97	0.65
18:f:96:LEU:HD21	18:f:129:LEU:HA	1.77	0.65
18:f:368:ALA:O	18:f:372:LEU:HG	1.97	0.65
23:B:103:ARG:HA	23:B:160:ILE:CD1	2.26	0.65
25:F:270:ASP:HA	25:F:273:ALA:HB3	1.77	0.65
26:K:91:LYS:O	26:K:91:LYS:HD2	1.96	0.65
27:U:142:LEU:HD22	27:U:169:GLU:OE1	1.97	0.65
1:C:368:MET:HB3	2:D:329:ARG:HH22	1.62	0.64
7:L:58:ALA:HB2	26:K:164:GLN:HE21	1.61	0.64
7:L:104:PRO:HG3	7:L:107:ARG:HE	1.61	0.64
10:W:87:ILE:HA	10:W:104:MET:HE1	1.79	0.64
12:Y:50:MET:HG3	12:Y:113:ARG:O	1.97	0.64
15:b:160:LEU:HD22	15:b:168:SER:HB2	1.78	0.64
18:f:110:TYR:CE1	18:f:119:LYS:HE2	2.31	0.64
18:f:110:TYR:CD1	18:f:119:LYS:HE2	2.32	0.64
18:f:442:SER:HB3	18:f:476:THR:O	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:470:VAL:HG12	18:f:481:SER:HB3	1.79	0.64
18:f:590:PHE:HB2	18:f:649:HIS:CE1	2.32	0.64
18:f:605:ASN:OD1	18:f:607:LEU:HB2	1.97	0.64
23:B:187:ILE:HG22	23:B:234:LEU:CD2	2.27	0.64
24:E:149:ILE:CD1	24:E:276:ILE:CD1	2.73	0.64
25:F:204:LEU:HB2	25:F:205:PRO:HD3	1.79	0.64
25:F:257:VAL:HG13	25:F:257:VAL:O	1.97	0.64
1:C:199:LEU:HD23	1:C:199:LEU:O	1.96	0.64
2:D:263:PHE:HA	2:D:308:ILE:O	1.98	0.64
5:I:17:ARG:HA	23:B:439:TYR:OH	1.98	0.64
5:I:45:LEU:HD22	5:I:65:ILE:CD1	2.28	0.64
7:L:26:MET:HE1	7:L:149:PRO:HD2	1.77	0.64
8:M:25:TYR:HA	8:M:28:LYS:HG2	1.78	0.64
13:Z:101:LEU:HB3	13:Z:105:ASP:OD2	1.97	0.64
14:a:202:LEU:O	14:a:206:LEU:HD23	1.96	0.64
16:c:187:PRO:HB3	16:c:192:LEU:HD11	1.78	0.64
18:f:483:PHE:HB2	18:f:517:VAL:HG11	1.78	0.64
22:A:271:LEU:C	22:A:272:ILE:HD13	2.22	0.64
23:B:201:VAL:HG11	23:B:328:ILE:HD11	1.80	0.64
25:F:185:TYR:CE1	25:F:239:ALA:HB1	2.33	0.64
27:U:150:ALA:O	27:U:154:ALA:N	2.27	0.64
27:U:791:LEU:HD13	27:U:797:MET:HE1	1.78	0.64
2:D:155:THR:HG23	2:D:158:GLN:OE1	1.97	0.64
2:D:323:ARG:HH12	2:D:326:ARG:NH1	1.94	0.64
3:G:164:LYS:HE2	4:H:57:TYR:O	1.96	0.64
4:H:79:MET:HE2	4:H:82:ASP:OD2	1.97	0.64
12:Y:98:SER:OG	12:Y:99:GLU:OE2	2.15	0.64
14:a:16:PRO:O	14:a:21:VAL:HG13	1.97	0.64
15:b:16:MET:HA	15:b:25:ARG:HE	1.63	0.64
17:d:145:ARG:O	17:d:149:GLU:HB2	1.96	0.64
18:f:183:PRO:O	18:f:186:THR:OG1	2.13	0.64
18:f:333:LEU:HA	18:f:336:GLU:OE1	1.98	0.64
23:B:180:PRO:O	23:B:241:ASN:ND2	2.28	0.64
25:F:277:GLU:HB3	25:F:278:LYS:NZ	2.13	0.64
27:U:353:LEU:HD11	27:U:373:ASN:CB	2.27	0.64
1:C:148:TYR:CE1	1:C:158:ILE:HG23	2.32	0.64
1:C:401:ILE:HD13	4:H:26:LEU:HD13	1.80	0.64
3:G:231:THR:O	3:G:235:ILE:HD12	1.98	0.64
4:H:44:VAL:HG21	4:H:145:TYR:O	1.97	0.64
5:I:171:ALA:CB	5:I:200:THR:HG21	2.26	0.64
5:I:197:LEU:HB2	5:I:206:LEU:HD11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:117:ASP:OD1	10:W:119:PRO:HD2	1.97	0.64
12:Y:104:MET:HE1	12:Y:130:LYS:NZ	2.13	0.64
13:Z:110:GLU:OE1	13:Z:113:LYS:HD3	1.97	0.64
14:a:77:VAL:CA	14:a:80:ILE:HG12	2.27	0.64
18:f:830:LEU:HD22	18:f:874:LEU:CD2	2.21	0.64
22:A:217:PRO:HG2	22:A:345:LEU:HD21	1.79	0.64
23:B:112:LEU:CD2	23:B:144:LEU:HG	2.27	0.64
24:E:247:THR:H	24:E:250:ASP:HB2	1.61	0.64
27:U:158:ARG:HD2	27:U:158:ARG:N	2.12	0.64
27:U:249:CYS:SG	27:U:328:ILE:HG13	2.38	0.64
2:D:250:VAL:CG1	2:D:262:ILE:HD13	2.26	0.64
7:L:79:ALA:HA	26:K:121:LEU:HD13	1.78	0.64
8:M:41:CYS:N	8:M:44:GLY:O	2.31	0.64
9:V:67:LEU:CA	9:V:70:VAL:HG12	2.28	0.64
9:V:108:LEU:HA	9:V:112:VAL:HG21	1.80	0.64
10:W:72:LYS:HD3	10:W:111:TYR:OH	1.96	0.64
10:W:224:LEU:O	10:W:228:ASN:HB2	1.97	0.64
11:X:47:GLU:HG2	11:X:80:ILE:CG2	2.28	0.64
14:a:70:ARG:NH1	15:b:17:ARG:HB3	2.13	0.64
18:f:132:THR:OG1	22:A:32:LEU:HD11	1.97	0.64
18:f:439:TYR:HA	18:f:477:MET:CE	2.21	0.64
19:g:109:GLY:O	19:g:113:ARG:HD2	1.97	0.64
23:B:112:LEU:HD12	23:B:123:VAL:HG12	1.79	0.64
24:E:145:LEU:HD12	24:E:172:LEU:HD21	1.79	0.64
25:F:187:ASP:O	25:F:368:ILE:HG21	1.97	0.64
25:F:248:PHE:HA	25:F:282:ILE:HG12	1.80	0.64
25:F:251:LEU:HD11	25:F:256:LEU:CD2	2.24	0.64
25:F:364:ARG:O	25:F:368:ILE:HD12	1.96	0.64
25:F:410:ARG:O	25:F:410:ARG:HG2	1.97	0.64
27:U:524:LYS:O	27:U:524:LYS:HG3	1.97	0.64
27:U:583:MET:HE2	27:U:618:ALA:HB2	1.79	0.64
27:U:788:VAL:HA	27:U:910:GLY:O	1.97	0.64
27:U:874:ASN:H	27:U:876:GLN:CD	2.06	0.64
1:C:57:ARG:HG3	1:C:57:ARG:HH11	1.63	0.64
1:C:97:VAL:HB	1:C:121:TYR:O	1.97	0.64
2:D:230:VAL:HG11	2:D:235:PHE:CE1	2.32	0.64
3:G:22:LEU:HD11	4:H:128:ARG:CD	2.28	0.64
5:I:68:LEU:HD11	5:I:74:CYS:HB3	1.80	0.64
6:J:10:PHE:CE1	6:J:16:LEU:HG	2.29	0.64
9:V:264:TYR:CE2	17:d:213:GLU:HG3	2.31	0.64
9:V:442:ILE:HD11	9:V:449:ALA:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:140:ILE:HG22	10:W:144:ARG:HH22	1.63	0.64
12:Y:376:LEU:O	12:Y:376:LEU:HD12	1.96	0.64
13:Z:78:MET:HE2	16:c:98:MET:HE3	1.78	0.64
14:a:221:VAL:HG23	14:a:222:LEU:H	1.62	0.64
14:a:325:ASP:O	14:a:329:LYS:HA	1.98	0.64
15:b:85:THR:HG23	15:b:85:THR:O	1.96	0.64
18:f:114:ALA:CB	18:f:118:ASN:HB2	2.26	0.64
18:f:478:ARG:NH1	18:f:507:ASP:OD2	2.29	0.64
19:g:132:ASN:HB2	19:g:151:VAL:CG1	2.25	0.64
19:g:161:SER:OG	19:g:163:GLU:OE1	2.13	0.64
20:u:196:ILE:O	20:u:215:THR:HG22	1.97	0.64
23:B:46:ALA:CB	23:B:179:ALA:HB2	2.28	0.64
23:B:223:ILE:HG21	23:B:350:LYS:HG2	1.79	0.64
27:U:31:VAL:HG22	27:U:38:ILE:HD13	1.79	0.64
27:U:532:MET:HG2	27:U:548:LEU:CD1	2.27	0.64
1:C:168:PRO:HA	1:C:175:PHE:CE1	2.32	0.64
3:G:70:PHE:CD2	3:G:91:VAL:HG21	2.32	0.64
9:V:470:ARG:HH12	9:V:474:LEU:HD13	1.61	0.64
10:W:267:LEU:HA	10:W:270:VAL:CG1	2.28	0.64
11:X:298:SER:OG	11:X:301:ASP:HB2	1.98	0.64
13:Z:175:LEU:HD13	16:c:217:LEU:HD12	1.80	0.64
15:b:9:CYS:HB3	15:b:54:LEU:HD21	1.78	0.64
18:f:301:HIS:NE2	18:f:788:MET:O	2.30	0.64
27:U:194:ARG:HD3	27:U:198:LEU:HD23	1.77	0.64
27:U:805:ASN:HB2	27:U:891:VAL:O	1.98	0.64
11:X:57:LEU:HD21	11:X:62:GLN:O	1.96	0.64
11:X:65:GLU:O	11:X:69:LEU:N	2.27	0.64
11:X:86:ALA:HB1	11:X:90:ARG:HH21	1.63	0.64
11:X:183:LEU:HD11	11:X:220:ALA:HB3	1.79	0.64
13:Z:13:PRO:HD3	13:Z:163:GLY:O	1.98	0.64
13:Z:23:PHE:CD2	13:Z:126:VAL:HG11	2.32	0.64
18:f:381:VAL:HG12	18:f:382:ASN:OD1	1.98	0.64
18:f:560:LEU:HD11	18:f:798:THR:HA	1.79	0.64
22:A:44:GLN:O	22:A:48:VAL:HG23	1.98	0.64
23:B:174:MET:HE1	23:B:266:LEU:HD21	1.79	0.64
26:K:230:THR:HG22	26:K:233:GLU:OE1	1.98	0.64
27:U:322:THR:O	27:U:326:ILE:HG13	1.97	0.64
27:U:348:THR:HG21	27:U:377:HIS:HD2	1.63	0.64
27:U:501:LEU:CD1	27:U:544:ILE:HD11	2.27	0.64
27:U:786:THR:OG1	27:U:884:VAL:O	2.15	0.64
27:U:796:LYS:HG2	27:U:798:PRO:HD3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:76:ILE:HG12	3:G:111:VAL:HG22	1.79	0.64
9:V:330:LYS:HD3	9:V:360:TYR:OH	1.97	0.64
9:V:446:VAL:C	9:V:447:ILE:HD13	2.23	0.64
11:X:368:MET:HE2	11:X:374:PHE:CD1	2.32	0.64
17:d:123:LEU:O	17:d:127:ASN:N	2.31	0.64
18:f:845:ARG:CG	18:f:865:PHE:HB2	2.27	0.64
25:F:225:MET:HG2	25:F:352:ILE:CG2	2.28	0.64
27:U:486:MET:HE1	27:U:781:LEU:HD21	1.80	0.64
27:U:699:THR:OG1	27:U:701:ILE:HG22	1.98	0.64
1:C:117:ARG:HG2	1:C:117:ARG:HH11	1.63	0.64
2:D:370:ILE:HG21	2:D:407:ILE:HD11	1.77	0.64
3:G:58:ASP:HB3	3:G:61:LEU:HD13	1.80	0.64
4:H:39:LYS:HE2	4:H:144:PRO:O	1.98	0.64
4:H:59:GLU:N	4:H:59:GLU:OE1	2.31	0.64
7:L:15:PRO:HA	8:M:25:TYR:CD2	2.33	0.64
8:M:31:GLU:OE1	8:M:169:ARG:HD3	1.98	0.64
9:V:440:LYS:CE	9:V:443:ARG:HH21	2.10	0.64
10:W:98:LYS:HD2	10:W:137:TYR:CE1	2.33	0.64
11:X:345:VAL:HG13	11:X:350:ILE:HD11	1.80	0.64
15:b:171:VAL:CG2	15:b:187:PRO:HG3	2.21	0.64
18:f:89:MET:HE3	23:B:411:ARG:CD	2.27	0.64
18:f:367:SER:HB3	18:f:370:MET:CG	2.27	0.64
19:g:160:GLN:HB2	19:g:168:ASN:HB2	1.80	0.64
22:A:158:ASP:HB3	22:A:161:VAL:HB	1.80	0.64
26:K:228:MET:HA	26:K:228:MET:HE3	1.79	0.64
27:U:351:MET:HA	27:U:351:MET:HE3	1.80	0.64
5:I:36:GLY:HA2	5:I:44:LEU:O	1.98	0.63
7:L:193:ARG:O	7:L:197:GLU:HG2	1.98	0.63
8:M:37:ILE:HG12	8:M:48:GLY:O	1.98	0.63
8:M:197:ILE:O	8:M:200:VAL:HG22	1.98	0.63
9:V:175:MET:HB3	9:V:184:ALA:HB2	1.79	0.63
9:V:363:LEU:CD2	9:V:395:ILE:HD12	2.27	0.63
10:W:34:LEU:HB2	10:W:43:VAL:CG2	2.28	0.63
10:W:406:VAL:HG12	10:W:413:ILE:HG12	1.79	0.63
11:X:344:ARG:CG	11:X:386:ILE:HD12	2.17	0.63
13:Z:106:ILE:HG12	13:Z:155:PHE:HE1	1.61	0.63
14:a:17:GLY:O	14:a:21:VAL:HG22	1.97	0.63
14:a:54:ASP:CG	14:a:86:GLN:HG3	2.23	0.63
17:d:92:THR:HA	17:d:95:TYR:HB3	1.80	0.63
18:f:293:GLN:OE1	18:f:293:GLN:HA	1.98	0.63
18:f:683:GLU:HG2	18:f:686:LEU:CD1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:870:THR:HA	18:f:872:VAL:HG23	1.81	0.63
18:f:881:GLU:HA	18:f:894:LEU:HD22	1.79	0.63
26:K:185:TYR:HA	26:K:189:MET:CE	2.27	0.63
27:U:73:ALA:HB1	27:U:75:GLU:OE2	1.98	0.63
27:U:132:GLY:HA2	27:U:135:ASN:OD1	1.98	0.63
27:U:147:TYR:O	27:U:151:ILE:HG22	1.98	0.63
1:C:131:VAL:HG13	1:C:136:SER:HB2	1.78	0.63
1:C:194:THR:HG21	1:C:317:PHE:HB3	1.81	0.63
4:H:139:TRP:CZ2	4:H:142:GLY:HA2	2.33	0.63
7:L:26:MET:HE2	7:L:149:PRO:HD2	1.79	0.63
8:M:45:VAL:HG23	8:M:146:ALA:HB1	1.79	0.63
9:V:101:LEU:HD23	9:V:209:LYS:HG2	1.79	0.63
11:X:68:GLY:HA2	11:X:71:LYS:HG2	1.79	0.63
14:a:321:LYS:O	14:a:334:THR:OG1	2.14	0.63
18:f:502:LEU:O	18:f:505:MET:HG2	1.98	0.63
22:A:174:TYR:OH	22:A:229:VAL:HG22	1.97	0.63
24:E:194:ASN:O	24:E:228:CYS:HA	1.98	0.63
24:E:238:ILE:HD12	24:E:238:ILE:N	2.13	0.63
25:F:172:VAL:HG22	25:F:267:LEU:CD1	2.27	0.63
25:F:188:ILE:CD1	25:F:239:ALA:HB2	2.28	0.63
26:K:108:THR:O	26:K:111:SER:OG	2.12	0.63
26:K:220:VAL:HA	26:K:228:MET:HE1	1.80	0.63
27:U:357:LYS:HE2	27:U:385:PHE:HE2	1.64	0.63
27:U:792:ASN:OD1	27:U:793:LYS:N	2.27	0.63
27:U:803:LYS:CB	27:U:875:PHE:HA	2.28	0.63
1:C:329:LEU:HD11	1:C:347:ILE:HG22	1.78	0.63
11:X:89:VAL:CG1	11:X:125:LEU:HD11	2.28	0.63
13:Z:185:GLY:O	13:Z:186:THR:OG1	2.08	0.63
17:d:197:LEU:O	17:d:197:LEU:HD23	1.98	0.63
17:d:206:ALA:O	17:d:210:THR:HG22	1.98	0.63
18:f:467:SER:O	18:f:470:VAL:HG22	1.99	0.63
23:B:225:TYR:CZ	23:B:352:GLU:HB2	2.33	0.63
23:B:383:LEU:CD2	23:B:419:PHE:HB3	2.26	0.63
26:K:44:GLU:HG3	26:K:191:LEU:HB2	1.81	0.63
26:K:146:VAL:HG21	26:K:222:PRO:HA	1.79	0.63
27:U:373:ASN:HD21	27:U:411:ILE:HD11	1.62	0.63
27:U:811:PHE:O	27:U:812:ALA:HB3	1.98	0.63
3:G:196:GLU:CB	3:G:242:LEU:HD21	2.29	0.63
7:L:125:ARG:NH1	7:L:125:ARG:HG3	2.12	0.63
9:V:408:ARG:HG2	9:V:408:ARG:HH11	1.64	0.63
11:X:130:GLU:HG2	11:X:149:LEU:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Y:52:PRO:HG2	12:Y:114:ILE:CD1	2.29	0.63
12:Y:145:LEU:CD2	12:Y:160:ASN:HB2	2.28	0.63
12:Y:279:GLU:CG	12:Y:296:VAL:HG21	2.29	0.63
13:Z:74:TYR:HE1	13:Z:78:MET:HE3	1.61	0.63
16:c:177:THR:HB	27:U:773:PHE:HB2	1.78	0.63
18:f:316:ASP:O	18:f:319:GLU:HG3	1.98	0.63
18:f:444:ALA:O	18:f:448:CYS:N	2.25	0.63
18:f:836:GLU:OE1	18:f:838:ARG:HG3	1.98	0.63
18:f:862:ILE:HD12	18:f:881:GLU:CG	2.28	0.63
19:g:93:LEU:HG	19:g:157:GLU:OE1	1.99	0.63
24:E:142:ILE:HG12	24:E:183:LEU:HD13	1.79	0.63
27:U:115:ASN:ND2	27:U:123:LYS:HG2	2.13	0.63
2:D:357:GLU:OE1	2:D:357:GLU:N	2.26	0.63
3:G:143:ILE:CG1	3:G:220:VAL:HG22	2.27	0.63
6:J:64:ALA:HB2	6:J:217:LEU:CD2	2.26	0.63
7:L:132:LEU:O	7:L:146:GLN:HA	1.98	0.63
9:V:188:SER:O	9:V:192:MET:HG2	1.98	0.63
9:V:348:PHE:CE2	9:V:361:PHE:HA	2.34	0.63
11:X:137:TYR:HB3	11:X:146:ALA:HB2	1.80	0.63
12:Y:259:TYR:CD2	12:Y:278:VAL:HG21	2.33	0.63
13:Z:125:ASP:O	13:Z:128:PRO:HD2	1.98	0.63
14:a:101:ARG:HD2	14:a:111:VAL:CG2	2.27	0.63
14:a:112:ILE:HD13	14:a:138:VAL:HG11	1.80	0.63
14:a:112:ILE:HA	14:a:115:LYS:HG3	1.80	0.63
14:a:217:LEU:HA	14:a:223:GLU:OE1	1.98	0.63
14:a:344:GLN:OE1	14:a:344:GLN:HA	1.97	0.63
15:b:17:ARG:CG	15:b:80:PRO:HG2	2.28	0.63
18:f:107:LYS:O	18:f:110:TYR:HB3	1.98	0.63
24:E:98:VAL:HB	24:E:107:ILE:HG23	1.81	0.63
25:F:197:GLU:OE2	25:F:350:ARG:NH2	2.31	0.63
25:F:248:PHE:CD1	25:F:282:ILE:HD11	2.31	0.63
26:K:31:ILE:HD11	26:K:140:ALA:HB3	1.80	0.63
27:U:488:THR:HG23	27:U:490:ARG:N	2.11	0.63
27:U:559:ARG:HB3	27:U:562:GLU:CB	2.24	0.63
2:D:177:VAL:HG23	2:D:331:ILE:HD13	1.79	0.63
4:H:93:LEU:CD1	4:H:113:ARG:HB3	2.26	0.63
4:H:173:PHE:HD2	4:H:194:THR:HA	1.64	0.63
8:M:37:ILE:HG22	8:M:164:ALA:HB2	1.80	0.63
9:V:244:ALA:HB1	9:V:279:GLN:HE21	1.63	0.63
10:W:122:LEU:O	10:W:125:ILE:HG13	1.99	0.63
10:W:214:PHE:HA	10:W:219:THR:OG1	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:70:LEU:HA	11:X:73:VAL:HG22	1.80	0.63
13:Z:228:TYR:O	13:Z:231:GLN:HB3	1.99	0.63
14:a:76:LEU:O	14:a:80:ILE:HG23	1.97	0.63
14:a:130:VAL:O	14:a:134:THR:HG23	1.98	0.63
15:b:51:LEU:O	15:b:52:ILE:HD13	1.98	0.63
18:f:267:ARG:O	18:f:271:MET:HG3	1.99	0.63
18:f:439:TYR:CD2	18:f:476:THR:HG21	2.33	0.63
18:f:650:GLN:NE2	18:f:683:GLU:OE2	2.23	0.63
19:g:107:ILE:HG13	19:g:115:LYS:NZ	2.12	0.63
19:g:159:LYS:HB2	19:g:168:ASN:ND2	2.14	0.63
23:B:133:VAL:HB	23:B:158:ALA:HA	1.80	0.63
26:K:42:THR:HG22	26:K:189:MET:HB2	1.81	0.63
26:K:210:LEU:CD1	26:K:215:ILE:HG12	2.23	0.63
27:U:664:GLY:N	27:U:698:GLN:HE22	1.95	0.63
1:C:339:THR:HG23	1:C:378:VAL:O	1.99	0.63
1:C:354:ALA:O	1:C:356:GLY:N	2.31	0.63
2:D:273:LYS:HZ3	2:D:319:PRO:HD3	1.62	0.63
2:D:338:ARG:HD2	2:D:338:ARG:O	1.99	0.63
11:X:81:SER:HB3	11:X:84:LYS:HD2	1.80	0.63
11:X:299:LEU:HD21	11:X:331:LEU:HA	1.81	0.63
12:Y:279:GLU:HB2	12:Y:296:VAL:HG21	1.80	0.63
14:a:153:SER:O	14:a:157:ASP:N	2.21	0.63
15:b:147:GLU:HG3	15:b:150:THR:HG23	1.80	0.63
18:f:138:GLU:HA	18:f:141:LYS:HZ2	1.64	0.63
18:f:344:VAL:HG12	18:f:345:PRO:HD2	1.81	0.63
18:f:692:LEU:HD21	18:f:724:ASN:OD1	1.98	0.63
19:g:128:LYS:HB3	19:g:158:LEU:CD1	2.29	0.63
19:g:129:ILE:O	19:g:136:LEU:HG	1.99	0.63
22:A:246:VAL:HG13	22:A:295:VAL:HG22	1.80	0.63
26:K:88:LEU:HD13	26:K:116:VAL:CG1	2.28	0.63
26:K:210:LEU:HD12	26:K:211:ASN:N	2.14	0.63
27:U:485:ALA:HB1	27:U:488:THR:CG2	2.28	0.63
27:U:529:ILE:O	27:U:533:VAL:HG22	1.99	0.63
27:U:596:ASN:HA	27:U:599:ILE:CG2	2.29	0.63
1:C:43:ARG:CZ	9:V:498:PRO:HB3	2.29	0.63
1:C:203:VAL:O	1:C:207:THR:HB	1.99	0.63
2:D:264:ILE:CG2	2:D:267:ILE:HD13	2.27	0.63
4:H:71:HIS:CE1	4:H:72:ILE:HD11	2.34	0.63
4:H:139:TRP:NE1	4:H:215:GLU:HG2	2.14	0.63
8:M:72:HIS:CD2	8:M:105:ASN:HB3	2.33	0.63
9:V:67:LEU:O	9:V:71:THR:HG23	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:17:GLU:N	10:W:57:ALA:O	2.31	0.63
14:a:212:ASN:N	14:a:212:ASN:OD1	2.31	0.63
18:f:498:LEU:HD21	18:f:525:ILE:HG22	1.81	0.63
18:f:590:PHE:HB2	18:f:649:HIS:ND1	2.13	0.63
19:g:98:LYS:NZ	19:g:100:LEU:HD11	2.14	0.63
24:E:252:GLU:OE1	24:E:252:GLU:HA	1.98	0.63
27:U:423:MET:HA	27:U:423:MET:HE3	1.79	0.63
27:U:678:ASP:HB3	27:U:683:VAL:HG13	1.80	0.63
5:I:139:TRP:CD1	5:I:144:GLY:HA2	2.34	0.63
6:J:71:MET:HE3	6:J:131:ALA:HB1	1.81	0.63
8:M:33:SER:CB	8:M:79:GLY:HA2	2.28	0.63
11:X:57:LEU:HD22	11:X:66:LEU:HB2	1.81	0.63
11:X:63:ALA:O	11:X:67:GLY:N	2.22	0.63
13:Z:212:LEU:CD1	14:a:346:ILE:HG23	2.28	0.63
14:a:335:TRP:HE1	14:a:337:GLN:HB3	1.64	0.63
16:c:127:ILE:HG23	16:c:162:LEU:HD21	1.81	0.63
17:d:97:GLN:O	17:d:101:GLU:N	2.29	0.63
17:d:228:HIS:CE1	17:d:232:LEU:HD22	2.33	0.63
17:d:300:THR:CA	17:d:303:ALA:HB3	2.28	0.63
18:f:141:LYS:O	18:f:145:VAL:HG22	1.99	0.63
18:f:341:GLU:O	18:f:773:LYS:NZ	2.21	0.63
18:f:539:LEU:HA	18:f:542:ILE:HD11	1.80	0.63
22:A:285:PHE:CE2	22:A:287:ASP:HB2	2.34	0.63
22:A:431:THR:HG23	22:A:432:TYR:CD1	2.34	0.63
23:B:366:GLN:HA	23:B:369:THR:CG2	2.29	0.63
24:E:200:SER:HB2	24:E:234:GLU:O	1.99	0.63
25:F:120:LYS:O	25:F:137:ILE:HG23	1.98	0.63
27:U:335:ILE:O	27:U:339:LEU:N	2.30	0.63
27:U:661:ALA:O	27:U:746:ILE:HD11	1.99	0.63
27:U:796:LYS:NZ	27:U:921:ILE:HB	2.14	0.63
1:C:170:LYS:HE2	1:C:208:ASP:OD2	1.99	0.62
2:D:71:GLU:HG3	27:U:644:TYR:CZ	2.34	0.62
2:D:388:ARG:HH21	24:E:297:ARG:HH12	1.47	0.62
4:H:196:LYS:HE2	4:H:203:MET:HE2	1.80	0.62
5:I:135:LEU:HG	5:I:164:ILE:HD11	1.80	0.62
10:W:106:GLN:O	10:W:110:THR:HG23	1.99	0.62
10:W:144:ARG:HB2	10:W:144:ARG:CZ	2.28	0.62
11:X:69:LEU:O	11:X:73:VAL:HG13	1.99	0.62
13:Z:208:ILE:CG2	13:Z:230:LEU:HD11	2.29	0.62
14:a:319:LEU:N	14:a:319:LEU:HD12	2.14	0.62
15:b:35:ILE:HG23	15:b:188:ILE:CD1	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:124:LEU:CD2	15:b:152:LYS:HB2	2.29	0.62
15:b:173:VAL:HG22	15:b:174:PRO:HD2	1.80	0.62
18:f:851:ASP:OD1	18:f:853:VAL:HG23	1.99	0.62
19:g:112:LEU:HD11	19:g:116:ILE:CD1	2.29	0.62
23:B:322:ARG:NH1	23:B:325:VAL:O	2.32	0.62
24:E:39:GLN:HA	24:E:42:LYS:HE2	1.81	0.62
24:E:168:LYS:HA	24:E:274:LYS:CD	2.29	0.62
24:E:310:LEU:O	24:E:314:LYS:N	2.19	0.62
25:F:251:LEU:N	25:F:284:PHE:O	2.25	0.62
27:U:486:MET:CE	27:U:781:LEU:HD21	2.29	0.62
1:C:248:MET:HE1	1:C:276:LEU:CD1	2.30	0.62
2:D:230:VAL:HG11	2:D:235:PHE:CZ	2.34	0.62
3:G:72:ILE:HD13	3:G:140:LEU:HD21	1.81	0.62
3:G:76:ILE:HG23	3:G:111:VAL:HG22	1.81	0.62
8:M:52:LEU:CD2	8:M:209:PHE:HB2	2.30	0.62
9:V:190:ASP:O	9:V:194:LYS:HG2	1.98	0.62
10:W:118:LEU:HB2	10:W:119:PRO:HD3	1.81	0.62
10:W:304:ASP:O	10:W:307:LYS:HG2	1.99	0.62
11:X:71:LYS:CA	11:X:74:ARG:HG3	2.28	0.62
11:X:143:TYR:HE2	11:X:179:ALA:HB1	1.64	0.62
11:X:143:TYR:CE2	11:X:179:ALA:HB1	2.34	0.62
12:Y:319:MET:HE2	12:Y:330:ILE:HG13	1.81	0.62
13:Z:106:ILE:HG12	13:Z:155:PHE:CE1	2.35	0.62
17:d:171:LEU:HD21	17:d:191:LEU:HD13	1.81	0.62
18:f:109:ILE:HG12	18:f:113:MET:CB	2.29	0.62
18:f:433:LEU:CD2	19:g:173:GLU:HA	2.29	0.62
18:f:556:ARG:HD3	18:f:590:PHE:CZ	2.35	0.62
22:A:172:VAL:HG21	22:A:224:LEU:CD1	2.27	0.62
22:A:339:ARG:HH11	22:A:339:ARG:HG3	1.64	0.62
25:F:124:ILE:HG13	25:F:160:ILE:CD1	2.28	0.62
25:F:292:GLY:HA2	25:F:310:MET:HE1	1.82	0.62
27:U:368:ALA:HB1	27:U:731:ILE:CB	2.28	0.62
27:U:902:PRO:HA	27:U:915:LYS:H	1.64	0.62
1:C:175:PHE:HD2	1:C:180:ILE:HD11	1.65	0.62
1:C:209:CYS:SG	1:C:243:PRO:HB2	2.39	0.62
2:D:196:ILE:HG13	2:D:196:ILE:O	1.98	0.62
3:G:243:ALA:O	10:W:92:LYS:HE3	2.00	0.62
9:V:248:ALA:HA	9:V:276:PHE:HE1	1.64	0.62
9:V:309:MET:CE	9:V:328:VAL:HG13	2.29	0.62
10:W:326:MET:C	10:W:326:MET:HE3	2.25	0.62
11:X:187:ARG:HH12	11:X:190:LEU:HD23	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:35:ILE:C	15:b:188:ILE:HD11	2.24	0.62
17:d:137:THR:HB	17:d:140:GLN:CB	2.27	0.62
22:A:185:GLU:O	22:A:189:GLU:HG2	1.99	0.62
22:A:348:LEU:O	22:A:352:THR:HG23	2.00	0.62
25:F:225:MET:HA	25:F:352:ILE:CG2	2.28	0.62
27:U:845:GLU:O	27:U:849:LYS:HG3	1.99	0.62
27:U:879:ASP:CB	27:U:881:PRO:HD2	2.20	0.62
27:U:901:GLN:O	27:U:915:LYS:N	2.32	0.62
9:V:93:PHE:HA	9:V:96:ARG:HH21	1.65	0.62
10:W:147:LYS:HE3	10:W:185:PHE:CE1	2.33	0.62
11:X:377:ILE:HG21	12:Y:312:ARG:HB2	1.82	0.62
12:Y:338:ILE:HD13	12:Y:345:CYS:O	1.98	0.62
13:Z:114:ARG:CZ	13:Z:114:ARG:HB2	2.28	0.62
15:b:35:ILE:HG13	15:b:188:ILE:CD1	2.28	0.62
18:f:106:LEU:HA	18:f:109:ILE:HG22	1.81	0.62
18:f:562:LEU:HD22	18:f:595:VAL:HG12	1.80	0.62
18:f:654:VAL:CG2	18:f:678:LEU:HD23	2.29	0.62
18:f:711:SER:HA	18:f:714:SER:HB3	1.81	0.62
18:f:737:ASN:OD1	18:f:774:GLY:HA3	2.00	0.62
24:E:356:ARG:O	24:E:357:ALA:C	2.42	0.62
25:F:376:SER:HB2	25:F:414:GLU:CD	2.24	0.62
26:K:142:LEU:HD23	26:K:155:HIS:HB2	1.81	0.62
27:U:661:ALA:HB1	27:U:746:ILE:HD12	1.82	0.62
1:C:370:ALA:HB2	1:C:375:ARG:HH21	1.64	0.62
2:D:380:GLN:O	24:E:164:ILE:HD13	1.99	0.62
3:G:179:LEU:HG	3:G:201:CYS:SG	2.40	0.62
5:I:115:CYS:SG	5:I:156:TYR:HB3	2.40	0.62
7:L:44:ALA:HB3	7:L:215:VAL:CG1	2.30	0.62
7:L:47:VAL:CG1	7:L:195:LEU:HD12	2.27	0.62
9:V:121:PHE:CE2	9:V:159:LEU:HD12	2.33	0.62
9:V:135:LEU:HA	9:V:180:ARG:NH2	2.15	0.62
9:V:440:LYS:HE2	9:V:444:ASP:OD2	2.00	0.62
11:X:96:PHE:CE2	11:X:109:LEU:HD22	2.34	0.62
13:Z:212:LEU:HD13	14:a:346:ILE:HG23	1.82	0.62
14:a:17:GLY:O	14:a:21:VAL:N	2.28	0.62
15:b:140:ILE:HG21	15:b:153:LEU:HD21	1.81	0.62
17:d:104:ARG:NE	17:d:106:SER:OG	2.28	0.62
17:d:119:LEU:O	17:d:122:VAL:HG22	1.99	0.62
17:d:191:LEU:HA	17:d:194:LEU:CD1	2.29	0.62
19:g:109:GLY:HA2	19:g:112:LEU:CB	2.29	0.62
19:g:112:LEU:O	19:g:116:ILE:N	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:343:LEU:HD23	25:F:351:LYS:CD	2.26	0.62
27:U:250:PHE:HE2	27:U:911:ILE:HG21	1.63	0.62
27:U:410:VAL:HG21	27:U:777:HIS:HB3	1.82	0.62
1:C:21:ARG:HA	27:U:149:GLN:NE2	2.15	0.62
1:C:113:ARG:HH22	2:D:102:ILE:HD13	1.65	0.62
1:C:134:LEU:HD13	1:C:230:MET:CE	2.28	0.62
1:C:262:GLY:HA2	23:B:295:TYR:CD2	2.33	0.62
2:D:254:ALA:CB	2:D:262:ILE:HD11	2.28	0.62
5:I:25:MET:HE1	23:B:438:LEU:CD1	2.30	0.62
6:J:173:GLU:HG3	26:K:58:LEU:HD11	1.80	0.62
9:V:72:LEU:HD11	9:V:116:ALA:CB	2.29	0.62
11:X:62:GLN:O	11:X:66:LEU:N	2.24	0.62
11:X:175:LYS:HA	11:X:213:GLN:NE2	2.15	0.62
13:Z:33:LYS:HG3	13:Z:34:ARG:H	1.64	0.62
13:Z:175:LEU:HD13	16:c:217:LEU:CD1	2.30	0.62
15:b:36:VAL:HA	15:b:188:ILE:HD11	1.81	0.62
15:b:140:ILE:CG2	15:b:153:LEU:HD21	2.30	0.62
18:f:185:LEU:O	18:f:188:VAL:HG22	1.99	0.62
19:g:116:ILE:HD13	19:g:129:ILE:CG1	2.29	0.62
20:u:194:VAL:HG13	20:u:246:ILE:HG23	1.81	0.62
22:A:278:ASP:HB2	23:B:310:LEU:CD2	2.30	0.62
22:A:297:ARG:HD3	25:F:257:VAL:HG21	1.80	0.62
22:A:384:GLU:CG	23:B:344:PRO:HG2	2.27	0.62
26:K:37:ALA:HB2	26:K:50:VAL:HG22	1.81	0.62
27:U:903:PHE:CB	27:U:915:LYS:HB2	2.24	0.62
1:C:21:ARG:HA	1:C:24:TYR:HD2	1.65	0.62
1:C:114:VAL:HB	1:C:123:LEU:HD21	1.82	0.62
1:C:174:LEU:HD11	22:A:30:ILE:CD1	2.29	0.62
2:D:412:GLN:HE22	24:E:283:ASP:HA	1.64	0.62
8:M:8:ASP:O	8:M:8:ASP:OD1	2.18	0.62
9:V:192:MET:HE3	9:V:214:HIS:CB	2.29	0.62
11:X:157:LEU:HD11	11:X:165:LEU:HB3	1.81	0.62
11:X:208:ALA:HB1	11:X:239:TYR:CE2	2.34	0.62
14:a:70:ARG:CZ	15:b:17:ARG:HB3	2.30	0.62
14:a:312:MET:HE2	14:a:312:MET:HA	1.81	0.62
18:f:62:ARG:O	18:f:70:LEU:HD13	2.00	0.62
18:f:545:LYS:HA	18:f:545:LYS:HE3	1.81	0.62
18:f:564:LEU:HD23	18:f:567:LEU:HD21	1.81	0.62
19:g:90:PRO:CB	19:g:157:GLU:HB2	2.30	0.62
22:A:286:ASP:H	25:F:337:ILE:HD11	1.63	0.62
27:U:12:LEU:HD22	27:U:45:ILE:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:177:LEU:HD21	27:U:205:TYR:HH	1.64	0.62
27:U:673:GLU:O	27:U:676:THR:HG22	1.99	0.62
2:D:383:GLY:HA2	2:D:394:VAL:CG2	2.30	0.62
3:G:167:ALA:O	3:G:172:GLN:HG3	1.99	0.62
4:H:71:HIS:CD2	4:H:72:ILE:HG13	2.34	0.62
6:J:55:ASP:OD1	6:J:55:ASP:N	2.26	0.62
9:V:118:GLN:O	9:V:122:THR:HG21	1.99	0.62
9:V:176:MET:HE1	9:V:216:ARG:HB3	1.82	0.62
10:W:135:LYS:NZ	10:W:137:TYR:OH	2.17	0.62
11:X:105:GLN:HA	11:X:108:GLU:HB2	1.82	0.62
13:Z:184:VAL:HG23	13:Z:186:THR:HG23	1.80	0.62
13:Z:243:GLN:NE2	13:Z:247:LYS:HE3	2.12	0.62
14:a:38:THR:HA	14:a:41:VAL:HB	1.82	0.62
16:c:307:VAL:CG2	17:d:332:SER:HB2	2.29	0.62
18:f:110:TYR:O	18:f:119:LYS:HE3	2.00	0.62
18:f:433:LEU:HD12	18:f:441:LYS:HG2	1.80	0.62
22:A:421:ALA:O	22:A:422:LYS:HG3	2.00	0.62
25:F:172:VAL:HG12	25:F:274:LEU:HD23	1.82	0.62
25:F:428:GLN:HG3	25:F:430:LYS:HE2	1.81	0.62
1:C:273:MET:CE	1:C:277:LEU:HD12	2.28	0.62
3:G:165:ALA:CB	3:G:179:LEU:HD13	2.27	0.62
3:G:174:GLU:HA	3:G:177:SER:OG	1.99	0.62
4:H:19:LEU:CD1	5:I:79:ILE:HD11	2.30	0.62
6:J:58:THR:HA	6:J:60:ARG:NH2	2.15	0.62
7:L:33:SER:HB2	7:L:62:LYS:NZ	2.15	0.62
9:V:173:ILE:HG12	9:V:213:TYR:CD2	2.35	0.62
11:X:113:CYS:HB3	11:X:129:LEU:HG	1.80	0.62
14:a:119:GLY:O	14:a:123:LEU:N	2.30	0.62
17:d:128:PHE:C	17:d:129:LEU:HD23	2.25	0.62
17:d:148:LEU:O	17:d:151:GLY:N	2.33	0.62
17:d:271:ILE:O	17:d:275:ILE:HG13	2.00	0.62
18:f:267:ARG:NH1	18:f:893:ILE:HB	2.14	0.62
18:f:345:PRO:HD3	18:f:378:ASN:OD1	1.99	0.62
18:f:426:LEU:HB3	19:g:156:LEU:CD2	2.30	0.62
18:f:429:ILE:HG22	18:f:429:ILE:O	1.99	0.62
18:f:613:LEU:HB2	23:B:74:MET:HE3	1.82	0.62
18:f:834:ASP:N	18:f:838:ARG:O	2.30	0.62
19:g:112:LEU:CD2	19:g:136:LEU:HD13	2.30	0.62
19:g:112:LEU:HG	19:g:116:ILE:HD12	1.82	0.62
22:A:193:THR:HG22	22:A:201:PHE:HE1	1.63	0.62
24:E:71:VAL:HG21	24:E:107:ILE:HD11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:324:THR:OG1	25:F:326:VAL:HG23	1.98	0.62
26:K:50:VAL:CG1	26:K:66:LYS:HE2	2.30	0.62
26:K:203:LYS:HG3	26:K:210:LEU:CB	2.30	0.62
27:U:181:LEU:HD11	27:U:219:CYS:SG	2.40	0.62
27:U:489:ALA:HA	27:U:520:MET:HE1	1.81	0.62
1:C:49:ARG:HD2	2:D:64:GLU:OE1	2.00	0.62
1:C:57:ARG:HG3	1:C:57:ARG:NH1	2.15	0.62
2:D:341:LYS:HD2	2:D:370:ILE:HD11	1.82	0.62
9:V:67:LEU:HA	9:V:70:VAL:CG1	2.27	0.62
9:V:171:VAL:O	9:V:175:MET:N	2.28	0.62
9:V:273:LYS:N	9:V:273:LYS:HD2	2.15	0.62
10:W:68:VAL:O	10:W:71:VAL:HG22	2.00	0.62
10:W:194:LEU:HD12	10:W:229:LEU:HD22	1.81	0.62
11:X:91:SER:O	11:X:95:LEU:HB2	2.00	0.62
12:Y:56:ALA:HA	12:Y:59:LYS:CD	2.29	0.62
14:a:36:GLN:OE1	14:a:36:GLN:N	2.18	0.62
14:a:116:THR:HG21	14:a:154:ARG:CB	2.30	0.62
16:c:176:GLN:HB3	27:U:399:TRP:HB2	1.82	0.62
16:c:176:GLN:O	16:c:178:THR:HG22	2.00	0.62
17:d:117:GLY:O	17:d:120:LYS:HG3	2.00	0.62
17:d:166:ARG:HB2	27:U:14:GLU:OE2	2.00	0.62
18:f:107:LYS:HE2	18:f:107:LYS:HA	1.82	0.62
18:f:833:PHE:HA	18:f:840:LEU:H	1.63	0.62
19:g:103:THR:HG21	19:g:115:LYS:HG3	1.81	0.62
22:A:92:PRO:HG2	22:A:144:ARG:HD2	1.82	0.62
25:F:124:ILE:CG1	25:F:160:ILE:HD11	2.29	0.62
26:K:40:ILE:HD13	26:K:198:SER:HB3	1.81	0.62
27:U:28:ASN:HB2	27:U:63:VAL:CG2	2.19	0.62
27:U:391:GLU:HA	27:U:391:GLU:OE2	2.00	0.62
27:U:602:LEU:CD2	27:U:618:ALA:HA	2.29	0.62
27:U:788:VAL:HG21	27:U:906:LEU:HD11	1.81	0.62
27:U:802:TYR:HB3	27:U:895:PRO:HB3	1.81	0.62
1:C:21:ARG:HA	27:U:149:GLN:HE22	1.64	0.61
1:C:119:ASP:HB2	16:c:193:ILE:CD1	2.30	0.61
4:H:111:VAL:CG2	4:H:136:ILE:HD12	2.19	0.61
7:L:36:VAL:HG21	7:L:194:ALA:CB	2.30	0.61
8:M:215:TRP:CZ2	8:M:228:PRO:HD2	2.35	0.61
10:W:201:ARG:O	10:W:204:ILE:HG22	2.00	0.61
11:X:299:LEU:HD11	11:X:334:ASN:HD22	1.65	0.61
12:Y:21:GLN:HA	12:Y:286:TRP:HB3	1.81	0.61
13:Z:38:VAL:CG1	13:Z:91:ILE:HG23	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:59:GLU:OE1	15:b:59:GLU:N	2.32	0.61
16:c:52:GLU:OE1	20:u:289:HIS:HD2	1.79	0.61
17:d:152:ALA:CB	17:d:191:LEU:HD22	2.30	0.61
18:f:502:LEU:HD22	18:f:537:THR:OG1	2.00	0.61
22:A:146:LYS:O	25:F:87:PRO:HG3	2.00	0.61
24:E:49:ALA:HA	25:F:136:VAL:HG21	1.81	0.61
24:E:112:PRO:HD2	25:F:97:LEU:CD1	2.22	0.61
26:K:142:LEU:CD2	26:K:155:HIS:HB2	2.30	0.61
27:U:91:ASN:OD1	27:U:97:VAL:HG21	2.00	0.61
27:U:550:VAL:HG21	27:U:768:GLN:HG3	1.81	0.61
27:U:803:LYS:HB2	27:U:874:ASN:O	1.99	0.61
27:U:845:GLU:HG2	27:U:848:LYS:HZ1	1.63	0.61
3:G:22:LEU:HD11	4:H:128:ARG:HD3	1.80	0.61
9:V:71:THR:O	9:V:75:ILE:HG13	2.01	0.61
9:V:181:TYR:O	9:V:185:GLN:N	2.33	0.61
9:V:417:ILE:HD13	9:V:422:ILE:CG1	2.29	0.61
10:W:171:VAL:HG23	10:W:172:GLU:OE2	2.00	0.61
13:Z:20:VAL:HG22	13:Z:126:VAL:HG23	1.81	0.61
13:Z:132:GLY:HA3	16:c:222:LYS:NZ	2.15	0.61
14:a:31:LYS:O	14:a:31:LYS:HG2	1.99	0.61
16:c:123:SER:HB2	20:u:289:HIS:CE1	2.34	0.61
18:f:46:SER:H	18:f:49:ASP:HB2	1.65	0.61
18:f:208:LEU:HD12	18:f:217:LEU:HD13	1.81	0.61
18:f:217:LEU:HD21	18:f:229:VAL:CG2	2.30	0.61
19:g:85:ILE:CD1	19:g:131:ILE:HD11	2.30	0.61
19:g:128:LYS:HB2	19:g:158:LEU:HD22	1.81	0.61
22:A:176:ASP:C	22:A:357:ILE:HD13	2.25	0.61
24:E:56:ILE:HB	24:E:100:LEU:HD11	1.82	0.61
24:E:275:MET:CG	24:E:295:LEU:HD21	2.04	0.61
27:U:423:MET:HE3	27:U:423:MET:CA	2.29	0.61
27:U:765:VAL:HG13	27:U:778:PHE:HB3	1.81	0.61
1:C:46:GLN:OE1	27:U:639:LEU:HD13	2.00	0.61
5:I:228:LEU:HB3	5:I:232:GLU:HG3	1.82	0.61
8:M:23:VAL:HG11	8:M:154:SER:HB3	1.82	0.61
8:M:27:MET:HG2	8:M:153:PRO:CD	2.29	0.61
9:V:440:LYS:HE3	9:V:443:ARG:NH2	2.11	0.61
10:W:41:GLN:O	10:W:45:GLU:HG2	1.99	0.61
11:X:90:ARG:HA	11:X:93:LEU:CD2	2.30	0.61
11:X:414:LEU:HD21	13:Z:273:HIS:CB	2.30	0.61
14:a:68:GLU:HG3	14:a:69:HIS:N	2.14	0.61
17:d:231:SER:HA	17:d:234:GLN:NE2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:300:THR:O	17:d:304:LYS:N	2.33	0.61
17:d:301:ASP:O	17:d:305:LYS:N	2.30	0.61
18:f:343:LYS:CD	18:f:773:LYS:HE2	2.30	0.61
18:f:417:ILE:HG22	18:f:418:LEU:CD2	2.26	0.61
23:B:278:ALA:CB	23:B:279:PRO:CD	2.78	0.61
25:F:225:MET:HE1	25:F:236:LEU:CD2	2.29	0.61
27:U:787:CYS:SG	27:U:789:ILE:HD11	2.41	0.61
2:D:98:GLN:OE1	2:D:98:GLN:HA	2.01	0.61
3:G:131:MET:CG	8:M:125:TYR:HE1	2.13	0.61
5:I:71:ASP:HB2	5:I:223:THR:HG21	1.81	0.61
10:W:440:ASN:HD22	16:c:226:MET:HE3	1.65	0.61
11:X:107:VAL:O	11:X:111:LEU:HD23	2.00	0.61
14:a:371:ALA:HB2	17:d:340:ILE:HD12	1.82	0.61
15:b:150:THR:O	15:b:154:THR:HG22	1.99	0.61
18:f:441:LYS:O	18:f:445:LEU:HG	1.99	0.61
22:A:143:ASP:OD1	22:A:147:TYR:N	2.33	0.61
23:B:197:ILE:HG21	23:B:235:LEU:CD2	2.08	0.61
24:E:65:THR:OG1	24:E:66:GLU:N	2.29	0.61
24:E:235:ILE:CD1	24:E:277:MET:CA	2.60	0.61
25:F:181:PRO:HB2	25:F:183:GLU:OE2	1.99	0.61
27:U:376:MET:HE2	27:U:734:GLN:O	2.00	0.61
3:G:77:GLY:O	3:G:141:ILE:HG12	2.01	0.61
7:L:193:ARG:HA	7:L:196:ARG:HG2	1.81	0.61
9:V:108:LEU:O	9:V:108:LEU:HD12	1.99	0.61
15:b:38:HIS:CE1	15:b:72:LEU:HD11	2.36	0.61
15:b:100:ARG:HD2	15:b:105:HIS:HB2	1.80	0.61
18:f:830:LEU:HB3	18:f:872:VAL:HB	1.82	0.61
23:B:221:GLY:HA2	23:B:327:VAL:O	1.99	0.61
25:F:182:THR:HG22	25:F:184:GLN:HG3	1.80	0.61
25:F:310:MET:HE3	25:F:342:LEU:CD2	2.30	0.61
27:U:84:ALA:HB3	27:U:88:PHE:HB2	1.82	0.61
27:U:165:LYS:HZ2	27:U:165:LYS:HB3	1.65	0.61
27:U:466:LYS:NZ	27:U:496:LEU:HD13	2.15	0.61
2:D:103:VAL:HG11	2:D:132:LEU:HD21	1.81	0.61
6:J:158:ALA:CB	6:J:172:LEU:HD21	2.31	0.61
7:L:40:SER:OG	7:L:187:LEU:HD22	2.00	0.61
9:V:240:LEU:HD11	27:U:69:TYR:CE1	2.36	0.61
10:W:188:GLU:HA	10:W:188:GLU:OE2	2.01	0.61
10:W:222:LEU:O	10:W:226:TYR:N	2.29	0.61
11:X:125:LEU:O	11:X:128:ALA:HB3	2.01	0.61
14:a:65:SER:HA	14:a:68:GLU:CD	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:186:LYS:NZ	14:a:193:GLN:HB2	2.12	0.61
14:a:251:LEU:O	14:a:254:ALA:HB3	2.01	0.61
16:c:177:THR:HG22	27:U:773:PHE:HB2	1.83	0.61
17:d:330:ILE:HD12	17:d:330:ILE:N	2.16	0.61
22:A:214:LEU:HD12	22:A:214:LEU:H	1.64	0.61
22:A:239:ARG:NE	23:B:320:ASP:OD2	2.33	0.61
23:B:245:ALA:HB1	23:B:279:PRO:O	2.01	0.61
25:F:95:GLU:O	25:F:96:LEU:HD12	2.01	0.61
1:C:273:MET:HE1	1:C:277:LEU:CD1	2.30	0.61
5:I:74:CYS:HA	5:I:135:LEU:O	2.01	0.61
8:M:169:ARG:C	8:M:173:LYS:HZ3	2.08	0.61
11:X:197:ALA:HB1	11:X:202:CYS:SG	2.40	0.61
11:X:379:ASP:OD1	11:X:384:VAL:HG22	2.01	0.61
13:Z:136:GLU:OE1	13:Z:136:GLU:HA	2.00	0.61
14:a:191:SER:HA	14:a:194:GLN:HE21	1.64	0.61
15:b:87:CYS:HB2	15:b:119:ASP:OD1	2.00	0.61
15:b:130:ARG:O	15:b:133:LYS:HG2	2.01	0.61
15:b:138:VAL:HG12	15:b:160:LEU:HD11	1.82	0.61
17:d:231:SER:HA	17:d:234:GLN:HE21	1.66	0.61
18:f:376:PHE:CE1	18:f:409:SER:HB3	2.36	0.61
19:g:139:GLY:C	19:g:140:LYS:HD2	2.26	0.61
22:A:120:LYS:O	25:F:90:VAL:HG12	2.00	0.61
24:E:137:GLY:HA3	24:E:308:ALA:HB2	1.82	0.61
1:C:48:GLN:HG2	2:D:65:GLN:OE1	2.01	0.61
1:C:167:LEU:HB3	1:C:168:PRO:HD3	1.83	0.61
7:L:72:ILE:HD13	7:L:132:LEU:HD22	1.81	0.61
8:M:74:GLY:O	8:M:137:LEU:HD23	2.01	0.61
9:V:192:MET:HE3	9:V:214:HIS:HB2	1.83	0.61
9:V:350:GLN:O	9:V:354:LYS:HB2	2.01	0.61
10:W:355:LYS:HE2	10:W:384:LEU:HD21	1.81	0.61
11:X:57:LEU:HG	11:X:62:GLN:HB2	1.83	0.61
11:X:171:LEU:HD22	11:X:210:LEU:CD2	2.24	0.61
12:Y:149:LEU:HD23	12:Y:157:ILE:HD13	1.82	0.61
12:Y:149:LEU:N	12:Y:157:ILE:HD11	2.15	0.61
13:Z:43:TRP:HZ3	13:Z:46:LYS:HA	1.65	0.61
13:Z:101:LEU:HD23	13:Z:123:ILE:HD11	1.82	0.61
13:Z:125:ASP:C	13:Z:128:PRO:HD2	2.25	0.61
14:a:76:LEU:HD21	14:a:100:THR:HB	1.83	0.61
14:a:102:GLU:O	14:a:105:LYS:HG3	2.01	0.61
14:a:157:ASP:OD1	14:a:196:ARG:NH2	2.34	0.61
16:c:25:VAL:HG21	16:c:161:ARG:HE	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:116:LEU:HD21	17:d:150:ILE:CG2	2.30	0.61
18:f:711:SER:O	18:f:714:SER:N	2.24	0.61
18:f:828:ARG:NH1	18:f:874:LEU:HD12	2.16	0.61
18:f:843:SER:O	18:f:883:ALA:HB3	2.00	0.61
19:g:164:ASP:HA	19:g:167:LYS:HD2	1.82	0.61
22:A:139:ARG:NH2	22:A:156:LYS:HA	2.15	0.61
25:F:198:LEU:HD23	25:F:202:ILE:HB	1.81	0.61
26:K:23:GLN:OE1	26:K:23:GLN:HA	1.98	0.61
1:C:404:LEU:CD2	4:H:152:SER:HB2	2.31	0.61
9:V:194:LYS:O	9:V:198:GLN:HG2	2.01	0.61
10:W:27:ARG:NH2	10:W:46:THR:HG21	2.16	0.61
11:X:364:LYS:NZ	11:X:367:GLN:OE1	2.27	0.61
18:f:433:LEU:HB3	19:g:172:GLU:HA	1.82	0.61
18:f:654:VAL:HG22	18:f:678:LEU:HD23	1.83	0.61
18:f:890:VAL:HG23	18:f:899:ILE:O	2.00	0.61
19:g:80:THR:HG23	19:g:82:ILE:HG12	1.81	0.61
19:g:128:LYS:HD2	19:g:129:ILE:H	1.65	0.61
19:g:162:GLU:O	19:g:166:ARG:N	2.34	0.61
20:u:182:PHE:CZ	20:u:246:ILE:HG21	2.35	0.61
25:F:175:MET:HB3	25:F:249:LEU:CD1	2.30	0.61
27:U:198:LEU:CB	27:U:223:LEU:HG	2.30	0.61
27:U:481:LEU:HD11	27:U:493:VAL:CG2	2.31	0.61
27:U:833:LEU:HA	27:U:836:THR:HG22	1.83	0.61
27:U:836:THR:HG23	27:U:837:ALA:N	2.16	0.61
2:D:186:THR:OG1	2:D:187:HIS:N	2.34	0.61
3:G:29:PHE:CZ	3:G:156:PRO:HD2	2.35	0.61
4:H:37:GLY:O	4:H:160:ALA:HA	2.01	0.61
4:H:68:ILE:HD11	4:H:74:LEU:HG	1.83	0.61
4:H:89:ARG:HB3	4:H:89:ARG:HH11	1.66	0.61
5:I:65:ILE:CD1	5:I:75:SER:HB2	2.30	0.61
7:L:26:MET:CE	7:L:148:CYS:HB2	2.19	0.61
7:L:196:ARG:HH12	7:L:239:ARG:CA	2.13	0.61
9:V:467:TYR:HA	9:V:472:PRO:HG2	1.83	0.61
11:X:84:LYS:HA	11:X:87:ARG:NH1	2.16	0.61
12:Y:279:GLU:OE1	28:e:52:PHE:HB3	2.01	0.61
14:a:216:LEU:HD13	14:a:237:LEU:CB	2.30	0.61
15:b:58:CYS:HB3	15:b:92:VAL:HG11	1.83	0.61
17:d:129:LEU:CB	17:d:130:PRO:HD2	2.31	0.61
17:d:145:ARG:NH2	17:d:188:MET:HB3	2.16	0.61
18:f:59:LEU:CD1	18:f:74:ALA:HA	2.31	0.61
24:E:97:ARG:NH2	25:F:95:GLU:OE2	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:E:327:ASP:O	24:E:329:GLU:N	2.34	0.61
27:U:3:THR:O	27:U:34:PHE:HZ	1.84	0.61
27:U:489:ALA:HA	27:U:520:MET:HE2	1.83	0.61
27:U:580:ARG:HG2	27:U:617:ALA:CB	2.30	0.61
27:U:842:LYS:O	27:U:846:LYS:HE3	2.00	0.61
1:C:213:ARG:HG3	1:C:213:ARG:O	2.01	0.60
1:C:401:ILE:HD13	4:H:26:LEU:CD1	2.30	0.60
9:V:110:HIS:HB3	9:V:136:GLU:O	2.01	0.60
9:V:383:GLY:HA2	9:V:386:PHE:CD2	2.36	0.60
9:V:416:ARG:HG3	9:V:457:TYR:CD1	2.36	0.60
13:Z:12:HIS:O	13:Z:15:VAL:HG12	2.01	0.60
13:Z:20:VAL:HA	13:Z:126:VAL:HG21	1.83	0.60
13:Z:127:LYS:O	13:Z:129:LYS:NZ	2.34	0.60
14:a:40:GLN:HG3	14:a:44:PHE:CE2	2.34	0.60
17:d:137:THR:N	17:d:140:GLN:OE1	2.34	0.60
18:f:297:MET:HE1	18:f:782:HIS:CD2	2.36	0.60
19:g:89:LEU:HA	19:g:155:VAL:HB	1.82	0.60
19:g:113:ARG:HB3	19:g:138:LEU:CD1	2.31	0.60
19:g:116:ILE:HG22	19:g:127:ILE:HD11	1.82	0.60
23:B:245:ALA:HB1	23:B:279:PRO:C	2.26	0.60
26:K:35:SER:OG	26:K:66:LYS:NZ	2.28	0.60
27:U:353:LEU:HD11	27:U:373:ASN:HB3	1.83	0.60
27:U:904:LYS:CG	27:U:905:PRO:HD2	2.31	0.60
2:D:235:PHE:CD1	2:D:246:MET:HG2	2.36	0.60
10:W:203:GLN:HG2	10:W:233:LEU:CD2	2.22	0.60
10:W:407:ASP:OD1	11:X:344:ARG:HD3	2.02	0.60
13:Z:130:ASP:N	13:Z:130:ASP:OD1	2.33	0.60
14:a:100:THR:HA	14:a:103:LYS:CD	2.31	0.60
15:b:109:ILE:HB	15:b:138:VAL:HG23	1.82	0.60
16:c:180:ASN:OD1	16:c:180:ASN:N	2.34	0.60
17:d:136:LEU:HB3	17:d:140:GLN:OE1	2.01	0.60
17:d:166:ARG:O	17:d:170:GLN:NE2	2.26	0.60
18:f:316:ASP:HA	18:f:319:GLU:CG	2.31	0.60
18:f:407:MET:CE	18:f:440:ILE:HG21	2.31	0.60
18:f:726:ILE:CG1	18:f:762:VAL:HG22	2.30	0.60
19:g:106:HIS:ND1	19:g:107:ILE:HG23	2.17	0.60
23:B:190:LEU:HA	23:B:193:GLN:OE1	2.01	0.60
24:E:55:GLN:OE1	24:E:55:GLN:N	2.33	0.60
27:U:474:ARG:HE	27:U:500:ASN:CG	2.09	0.60
27:U:596:ASN:HA	27:U:599:ILE:HG22	1.84	0.60
1:C:36:ASN:HD21	9:V:89:LYS:HB3	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:87:VAL:HG21	1:C:116:LEU:HD11	1.83	0.60
3:G:50:ILE:HD13	3:G:141:ILE:CD1	2.32	0.60
4:H:73:GLY:O	4:H:74:LEU:HD23	2.01	0.60
10:W:203:GLN:O	10:W:207:LYS:HD3	2.02	0.60
11:X:54:GLY:CA	11:X:66:LEU:HD11	2.31	0.60
11:X:142:ARG:HB3	11:X:145:GLU:OE1	2.01	0.60
11:X:373:LYS:HA	11:X:373:LYS:NZ	2.16	0.60
12:Y:52:PRO:HD2	12:Y:114:ILE:O	2.01	0.60
14:a:72:ASN:ND2	14:a:74:LEU:HB2	2.16	0.60
14:a:127:ASP:O	14:a:131:THR:HG21	2.01	0.60
17:d:90:ALA:O	17:d:94:MET:HG3	2.01	0.60
17:d:124:LEU:HD22	27:U:22:PHE:HD2	1.66	0.60
18:f:330:PHE:HZ	18:f:776:LEU:HD21	1.65	0.60
18:f:644:ALA:O	18:f:647:GLY:N	2.34	0.60
19:g:161:SER:OG	19:g:162:GLU:OE1	2.19	0.60
20:u:130:ILE:HG23	20:u:169:VAL:CG1	2.31	0.60
22:A:71:GLY:HA3	23:B:162:VAL:CG1	2.31	0.60
23:B:251:VAL:O	23:B:251:VAL:HG22	2.02	0.60
27:U:160:LEU:HD11	27:U:196:LYS:HD2	1.83	0.60
27:U:811:PHE:CD1	27:U:885:MET:HE1	2.35	0.60
2:D:181:VAL:HG11	2:D:308:ILE:CG1	2.32	0.60
5:I:86:LEU:HD21	5:I:118:LYS:HZ1	1.63	0.60
10:W:112:VAL:HG13	10:W:121:LYS:NZ	2.16	0.60
10:W:138:VAL:HA	10:W:141:GLU:OE1	2.01	0.60
12:Y:301:ILE:HG23	12:Y:343:LEU:HD11	1.82	0.60
14:a:75:SER:HA	14:a:78:GLU:HB2	1.82	0.60
15:b:27:GLN:O	15:b:31:ASP:N	2.21	0.60
15:b:53:THR:HB	15:b:61:LEU:HD11	1.82	0.60
17:d:127:ASN:ND2	17:d:136:LEU:HD11	2.13	0.60
17:d:142:ILE:HG22	17:d:146:ASP:CG	2.27	0.60
18:f:261:ARG:HA	18:f:261:ARG:HE	1.65	0.60
18:f:305:LEU:HD12	18:f:305:LEU:O	2.01	0.60
22:A:333:ARG:NH1	22:A:335:GLY:HA3	2.17	0.60
27:U:549:ALA:O	27:U:581:SER:OG	2.12	0.60
27:U:678:ASP:OD1	27:U:679:PRO:HD2	2.01	0.60
1:C:391:MET:HG3	1:C:391:MET:O	2.01	0.60
3:G:76:ILE:CG2	3:G:111:VAL:HG22	2.31	0.60
3:G:215:ILE:CD1	3:G:217:VAL:HG23	2.31	0.60
5:I:33:THR:OG1	5:I:166:ASN:O	2.19	0.60
7:L:58:ALA:CB	26:K:164:GLN:HG3	2.31	0.60
7:L:66:VAL:HB	7:L:70:ILE:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M:216:VAL:HG12	8:M:223:ARG:O	2.02	0.60
9:V:62:HIS:O	9:V:65:ARG:HG2	2.01	0.60
9:V:375:PHE:O	9:V:379:LEU:HG	2.02	0.60
11:X:80:ILE:HG13	11:X:85:ALA:HB2	1.83	0.60
13:Z:67:VAL:CG1	15:b:91:ARG:HB2	2.31	0.60
14:a:70:ARG:HH22	15:b:17:ARG:NE	2.00	0.60
14:a:96:PHE:O	14:a:99:LYS:HG2	2.02	0.60
14:a:277:LEU:O	14:a:280:MET:HG3	2.01	0.60
15:b:53:THR:C	15:b:54:LEU:HD23	2.26	0.60
15:b:104:ASN:OD1	15:b:105:HIS:N	2.34	0.60
18:f:333:LEU:HD12	18:f:337:LEU:HD13	1.83	0.60
18:f:395:GLY:HA3	18:f:432:TYR:HE2	1.67	0.60
18:f:538:ILE:O	18:f:542:ILE:HG23	2.01	0.60
22:A:52:ILE:HD13	23:B:72:LEU:HD12	1.84	0.60
22:A:229:VAL:O	22:A:233:THR:HG23	2.01	0.60
24:E:150:GLU:OE2	24:E:154:THR:HG21	2.00	0.60
25:F:188:ILE:HG12	25:F:235:LEU:CD2	2.32	0.60
27:U:42:VAL:HG12	27:U:68:PHE:CE1	2.36	0.60
4:H:159:LYS:HB2	5:I:55:LEU:O	2.02	0.60
12:Y:149:LEU:HD23	12:Y:157:ILE:CD1	2.32	0.60
16:c:63:ASP:OD1	16:c:65:TYR:N	2.35	0.60
18:f:267:ARG:HH21	18:f:891:THR:CG2	2.14	0.60
19:g:112:LEU:HD23	19:g:138:LEU:CD2	2.31	0.60
19:g:130:VAL:O	19:g:153:ALA:HA	2.02	0.60
22:A:254:ALA:HB1	22:A:301:GLU:HG2	1.82	0.60
22:A:425:ALA:O	22:A:429:TYR:N	2.33	0.60
1:C:229:ARG:NH1	1:C:229:ARG:HG2	2.17	0.60
3:G:36:GLY:O	3:G:37:LEU:HD23	2.02	0.60
5:I:76:VAL:HG11	5:I:83:ALA:CB	2.31	0.60
5:I:116:ASP:OD1	6:J:81:ARG:NH2	2.33	0.60
6:J:26:VAL:HG21	6:J:130:SER:HB3	1.84	0.60
6:J:210:VAL:HG12	6:J:220:LEU:HD21	1.82	0.60
10:W:241:LEU:HD21	10:W:282:GLU:HG2	1.84	0.60
10:W:408:ARG:HD2	11:X:342:PHE:HE2	1.65	0.60
12:Y:42:MET:HE2	12:Y:63:TRP:CZ3	2.36	0.60
13:Z:212:LEU:HB3	14:a:350:LYS:HB3	1.82	0.60
14:a:61:GLU:CD	14:a:79:ILE:HD13	2.27	0.60
15:b:121:GLU:O	15:b:124:LEU:HG	2.01	0.60
16:c:278:GLN:O	16:c:282:ARG:NH2	2.34	0.60
18:f:498:LEU:HD13	18:f:534:VAL:HG21	1.83	0.60
19:g:109:GLY:HA2	19:g:112:LEU:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:333:ARG:CG	22:A:334:PRO:HD2	2.31	0.60
24:E:173:TYR:CZ	24:E:300:HIS:HB2	2.36	0.60
25:F:223:VAL:HA	25:F:350:ARG:O	2.00	0.60
25:F:252:ALA:HA	25:F:286:ASP:H	1.66	0.60
26:K:99:HIS:O	26:K:103:TYR:HB2	2.01	0.60
3:G:155:ASP:OD2	3:G:159:TYR:HB3	2.01	0.60
5:I:105:ILE:HD11	5:I:110:LEU:CA	2.31	0.60
5:I:179:TYR:OH	5:I:181:GLU:HB2	2.01	0.60
7:L:125:ARG:HH21	7:L:128:TYR:HE1	1.50	0.60
9:V:223:LYS:O	9:V:261:TYR:OH	2.19	0.60
10:W:105:VAL:HG21	10:W:138:VAL:CG2	2.30	0.60
10:W:323:ASP:HB3	10:W:324:TYR:HD1	1.67	0.60
10:W:383:ASP:C	10:W:384:LEU:HD23	2.26	0.60
11:X:47:GLU:HA	11:X:76:PHE:CZ	2.28	0.60
11:X:68:GLY:HA2	11:X:71:LYS:CG	2.31	0.60
12:Y:26:LEU:HG	12:Y:37:VAL:CG1	2.32	0.60
14:a:211:PHE:CE2	14:a:319:LEU:HD21	2.36	0.60
18:f:432:TYR:H	19:g:172:GLU:CB	2.14	0.60
18:f:484:GLY:HA2	18:f:487:LEU:HD12	1.83	0.60
22:A:158:ASP:OD1	22:A:159:PRO:HD2	2.01	0.60
22:A:187:LEU:HD11	22:A:318:LEU:HD21	1.83	0.60
23:B:54:PRO:HG3	23:B:60:LEU:HB3	1.83	0.60
23:B:197:ILE:O	23:B:201:VAL:HG22	2.01	0.60
25:F:315:ASN:HB3	25:F:316:GLN:NE2	2.17	0.60
26:K:97:GLN:HA	26:K:97:GLN:OE1	2.02	0.60
27:U:245:ALA:HB1	27:U:325:MET:CE	2.32	0.60
27:U:493:VAL:HG13	27:U:519:VAL:HG21	1.83	0.60
27:U:713:TYR:O	27:U:717:ILE:HG22	2.02	0.60
27:U:879:ASP:OD2	27:U:925:VAL:HG11	2.01	0.60
1:C:165:ILE:HD11	1:C:292:ILE:CG1	2.32	0.60
8:M:186:CYS:CA	8:M:189:ILE:HB	2.23	0.60
9:V:451:ILE:HG12	9:V:458:VAL:HG22	1.83	0.60
14:a:94:LEU:CD1	14:a:118:ILE:HB	2.32	0.60
16:c:177:THR:CG2	27:U:773:PHE:HB2	2.32	0.60
17:d:180:GLU:CD	17:d:180:GLU:H	2.10	0.60
18:f:430:ASP:HB2	19:g:168:ASN:O	2.02	0.60
18:f:670:MET:HE3	23:B:68:ILE:HG23	1.83	0.60
24:E:141:GLN:HG2	24:E:300:HIS:O	2.02	0.60
24:E:308:ALA:O	24:E:309:ARG:C	2.45	0.60
25:F:219:PRO:O	25:F:327:LYS:NZ	2.35	0.60
25:F:223:VAL:HG23	25:F:329:ILE:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:220:VAL:HB	26:K:228:MET:CE	2.31	0.60
27:U:132:GLY:O	27:U:136:LYS:HB3	2.01	0.60
2:D:277:ALA:HB1	2:D:283:ARG:HG2	1.83	0.60
3:G:13:ILE:CD1	3:G:126:THR:HA	2.23	0.60
3:G:207:SER:O	3:G:208:ILE:HD13	2.02	0.60
4:H:19:LEU:H	4:H:19:LEU:HD12	1.67	0.60
4:H:50:LYS:HG2	4:H:52:GLN:NE2	2.15	0.60
4:H:89:ARG:O	4:H:93:LEU:HB2	2.02	0.60
7:L:117:GLN:OE1	7:L:118:ILE:HD13	2.01	0.60
9:V:70:VAL:HA	9:V:73:GLU:OE1	2.02	0.60
9:V:182:LYS:O	9:V:186:LYS:HG2	2.02	0.60
9:V:191:LEU:O	9:V:195:ILE:HG23	2.02	0.60
9:V:273:LYS:HA	9:V:273:LYS:HE3	1.83	0.60
9:V:381:GLN:HG2	9:V:382:PHE:CD1	2.37	0.60
10:W:364:ARG:C	10:W:368:LYS:HE2	2.26	0.60
10:W:370:TYR:OH	14:a:308:GLU:HG3	2.02	0.60
14:a:189:PRO:CG	14:a:192:GLU:HB2	2.31	0.60
14:a:274:LEU:HD23	14:a:278:MET:HE1	1.83	0.60
15:b:71:ILE:H	15:b:71:ILE:HD12	1.67	0.60
15:b:180:ALA:O	15:b:184:ILE:HG23	2.01	0.60
17:d:117:GLY:HA3	17:d:118:ARG:NH2	2.16	0.60
17:d:302:TYR:O	17:d:307:GLY:N	2.35	0.60
18:f:329:ASN:O	18:f:333:LEU:N	2.29	0.60
18:f:497:VAL:O	18:f:501:LEU:HD23	2.01	0.60
18:f:542:ILE:CD1	18:f:580:LEU:HD21	2.30	0.60
18:f:579:ALA:O	18:f:582:VAL:HG23	2.02	0.60
18:f:830:LEU:CB	18:f:872:VAL:HB	2.32	0.60
19:g:112:LEU:HD22	19:g:142:LEU:HG	1.82	0.60
22:A:284:ARG:HG2	22:A:296:GLN:HG3	1.84	0.60
24:E:87:LEU:HD23	24:E:92:LEU:HD11	1.81	0.60
24:E:138:LEU:HB3	24:E:142:ILE:HG13	1.84	0.60
24:E:251:ARG:HG3	24:E:255:ARG:NH1	2.17	0.60
25:F:134:LEU:HD11	25:F:159:LEU:CA	2.26	0.60
27:U:88:PHE:CE1	27:U:90:VAL:HG23	2.37	0.60
27:U:171:ASN:HB2	27:U:176:MET:SD	2.41	0.60
2:D:46:LYS:HE3	27:U:187:LEU:HD11	1.83	0.59
7:L:46:LEU:HD12	7:L:63:ILE:HD11	1.83	0.59
7:L:81:ALA:HA	7:L:130:VAL:HG21	1.83	0.59
8:M:117:MET:HE2	8:M:117:MET:CA	2.32	0.59
8:M:136:MET:CE	8:M:163:CYS:HB3	2.32	0.59
9:V:79:VAL:HG13	9:V:163:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:201:ARG:NH1	9:V:241:ARG:HD3	2.17	0.59
9:V:324:PHE:HB2	28:e:19:PHE:HD2	1.67	0.59
9:V:410:ILE:HG12	9:V:426:LEU:HD11	1.84	0.59
10:W:272:LEU:HD21	10:W:341:PHE:CD2	2.37	0.59
11:X:334:ASN:HD22	11:X:354:ILE:HD13	1.67	0.59
11:X:348:GLU:O	11:X:351:SER:OG	2.18	0.59
13:Z:14:LEU:HD12	13:Z:14:LEU:O	2.02	0.59
18:f:333:LEU:HD13	18:f:831:VAL:CG2	2.32	0.59
18:f:613:LEU:CB	23:B:74:MET:HE3	2.32	0.59
19:g:113:ARG:HE	19:g:138:LEU:HD13	1.66	0.59
19:g:165:ALA:CB	19:g:169:PHE:H	2.15	0.59
22:A:348:LEU:HD23	22:A:348:LEU:C	2.27	0.59
23:B:187:ILE:HG22	23:B:234:LEU:HG	1.84	0.59
25:F:208:HIS:HD2	25:F:211:LYS:HG2	1.67	0.59
27:U:86:ASP:O	27:U:90:VAL:HB	2.01	0.59
27:U:239:GLU:OE1	27:U:241:ASN:HB2	2.01	0.59
27:U:351:MET:HE1	27:U:354:LYS:HD3	1.84	0.59
27:U:609:ASP:OD1	27:U:610:VAL:N	2.34	0.59
1:C:193:GLY:HA3	2:D:323:ARG:CD	2.31	0.59
2:D:138:ALA:O	2:D:140:VAL:HG13	2.02	0.59
2:D:218:ALA:O	2:D:220:ALA:N	2.35	0.59
8:M:69:VAL:O	8:M:92:ARG:HG2	2.02	0.59
8:M:190:VAL:HG21	8:M:215:TRP:CE3	2.37	0.59
9:V:174:PHE:HA	9:V:177:ASN:HB2	1.83	0.59
10:W:366:MET:HE2	10:W:373:ILE:CD1	2.32	0.59
10:W:377:ARG:O	10:W:381:LEU:HG	2.02	0.59
11:X:114:ILE:O	11:X:118:LYS:HG2	2.01	0.59
11:X:160:MET:HE2	11:X:161:ASP:O	2.01	0.59
12:Y:58:CYS:SG	12:Y:65:ILE:HG12	2.43	0.59
12:Y:80:GLU:O	12:Y:84:LEU:HG	2.00	0.59
12:Y:338:ILE:HD11	12:Y:345:CYS:SG	2.42	0.59
13:Z:32:GLN:OE1	13:Z:33:LYS:N	2.22	0.59
13:Z:58:PHE:HE2	13:Z:108:ILE:HD13	1.67	0.59
14:a:84:VAL:HG21	14:a:93:ALA:HB1	1.84	0.59
14:a:137:ASP:OD1	14:a:138:VAL:N	2.35	0.59
15:b:17:ARG:HD3	15:b:81:LYS:HZ2	1.64	0.59
17:d:259:PHE:O	17:d:262:ILE:N	2.34	0.59
18:f:45:LEU:CG	18:f:49:ASP:HB3	2.31	0.59
22:A:230:ALA:HA	22:A:233:THR:CG2	2.32	0.59
22:A:262:GLU:O	22:A:266:THR:HG23	2.01	0.59
25:F:274:LEU:CD1	25:F:278:LYS:HZ3	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:187:LEU:HD22	1:C:306:LEU:HD22	1.84	0.59
3:G:111:VAL:HG21	3:G:142:GLY:HA3	1.84	0.59
3:G:139:ILE:HA	3:G:152:TYR:O	2.01	0.59
4:H:110:LEU:O	4:H:114:VAL:N	2.31	0.59
4:H:139:TRP:CZ2	4:H:215:GLU:HG2	2.37	0.59
6:J:132:LEU:HG	6:J:161:ILE:HD13	1.84	0.59
7:L:167:SER:O	7:L:170:THR:HG22	2.02	0.59
8:M:175:GLU:O	8:M:196:ILE:HD11	2.03	0.59
9:V:117:VAL:HG11	9:V:131:LEU:CD1	2.32	0.59
11:X:325:LYS:O	11:X:325:LYS:HD3	2.01	0.59
14:a:152:HIS:HB3	14:a:156:TYR:OH	2.02	0.59
14:a:243:GLY:C	14:a:272:ILE:HD11	2.27	0.59
18:f:408:LEU:HD13	18:f:442:SER:OG	2.02	0.59
18:f:470:VAL:CG1	18:f:481:SER:HB3	2.33	0.59
18:f:861:THR:HB	18:f:879:ARG:HH22	1.66	0.59
27:U:403:THR:HG23	27:U:777:HIS:NE2	2.16	0.59
2:D:414:HIS:HB3	2:D:416:PHE:CE1	2.37	0.59
6:J:90:GLU:HG2	6:J:110:TYR:CG	2.37	0.59
9:V:100:MET:N	9:V:100:MET:HE3	2.17	0.59
9:V:434:ALA:O	9:V:438:VAL:HG23	2.01	0.59
10:W:271:VAL:HG11	10:W:302:TYR:HB3	1.83	0.59
12:Y:183:TYR:CE1	12:Y:213:LEU:HD21	2.38	0.59
14:a:97:LEU:HD22	14:a:117:ALA:HB3	1.83	0.59
14:a:374:ILE:HD13	17:d:347:GLU:HG3	1.84	0.59
15:b:63:THR:HG22	15:b:64:LEU:H	1.67	0.59
18:f:190:GLU:C	18:f:193:PRO:HD2	2.28	0.59
18:f:219:LYS:HA	18:f:258:LYS:HZ3	1.67	0.59
18:f:429:ILE:O	19:g:172:GLU:HB3	2.02	0.59
18:f:439:TYR:CA	18:f:477:MET:HE1	2.22	0.59
18:f:645:ASP:O	18:f:649:HIS:NE2	2.34	0.59
18:f:718:ASP:HB3	18:f:721:VAL:CG1	2.30	0.59
18:f:784:ASP:H	18:f:895:GLU:CD	2.08	0.59
19:g:89:LEU:HD23	19:g:155:VAL:CG2	2.32	0.59
23:B:69:LYS:HE3	23:B:73:LEU:HD11	1.84	0.59
24:E:200:SER:HB3	24:E:238:ILE:CD1	2.32	0.59
25:F:251:LEU:HG	25:F:256:LEU:HD11	1.83	0.59
27:U:586:VAL:HG11	27:U:602:LEU:HD12	1.82	0.59
1:C:21:ARG:HA	1:C:24:TYR:CE2	2.38	0.59
1:C:82:LYS:HD2	1:C:105:ILE:HG21	1.83	0.59
1:C:131:VAL:HG22	1:C:135:VAL:HG13	1.83	0.59
3:G:143:ILE:CG2	3:G:222:VAL:HA	2.25	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:G:191:PHE:HE1	3:G:219:VAL:HG11	1.67	0.59
4:H:113:ARG:O	4:H:117:VAL:HG23	2.03	0.59
9:V:121:PHE:CD2	9:V:159:LEU:HD12	2.36	0.59
9:V:123:SER:OG	9:V:155:ALA:O	2.09	0.59
9:V:269:LYS:HB3	27:U:36:ALA:HB1	1.84	0.59
10:W:260:SER:HA	10:W:263:TRP:CD1	2.37	0.59
14:a:32:LYS:HG3	14:a:34:TRP:CH2	2.38	0.59
14:a:350:LYS:HG3	14:a:351:ASP:N	2.18	0.59
15:b:97:LEU:HG	15:b:107:MET:CE	2.33	0.59
18:f:84:SER:O	18:f:88:SER:OG	2.19	0.59
18:f:138:GLU:HA	18:f:141:LYS:HG2	1.82	0.59
18:f:214:VAL:HG22	18:f:214:VAL:O	2.03	0.59
19:g:112:LEU:CD1	19:g:142:LEU:HD11	2.32	0.59
22:A:121:PHE:CZ	22:A:147:TYR:HE2	2.21	0.59
22:A:339:ARG:NH2	25:F:402:GLU:OE2	2.35	0.59
23:B:107:MET:HE3	23:B:151:LEU:HD22	1.85	0.59
27:U:87:LEU:HD23	27:U:87:LEU:H	1.67	0.59
27:U:794:ASP:N	27:U:794:ASP:OD1	2.34	0.59
3:G:29:PHE:CE2	3:G:155:ASP:HB2	2.37	0.59
3:G:29:PHE:O	3:G:32:ILE:HB	2.02	0.59
3:G:100:ASN:O	3:G:104:LYS:HB2	2.02	0.59
4:H:100:VAL:HG12	4:H:101:TYR:CD1	2.38	0.59
4:H:213:CYS:SG	4:H:218:PHE:HB2	2.43	0.59
4:H:224:THR:O	4:H:227:LYS:N	2.35	0.59
5:I:100:GLN:HG2	5:I:101:TYR:HE1	1.62	0.59
5:I:143:TYR:HB2	5:I:146:GLN:HE21	1.67	0.59
6:J:45:VAL:HG22	6:J:61:LYS:HD3	1.84	0.59
10:W:245:LYS:NZ	10:W:282:GLU:OE2	2.35	0.59
11:X:57:LEU:HG	11:X:62:GLN:OE1	2.03	0.59
13:Z:121:LEU:HG	13:Z:138:TYR:HB2	1.84	0.59
14:a:41:VAL:HG12	14:a:79:ILE:CD1	2.31	0.59
15:b:13:SER:O	15:b:16:MET:HB2	2.03	0.59
17:d:153:GLN:O	17:d:157:LEU:HG	2.02	0.59
18:f:330:PHE:CZ	18:f:776:LEU:HD21	2.37	0.59
18:f:379:GLY:CA	18:f:416:MET:HE3	2.32	0.59
18:f:562:LEU:HD13	18:f:595:VAL:HG11	1.84	0.59
18:f:583:VAL:HG13	18:f:588:ARG:HB2	1.83	0.59
19:g:83:ALA:HB3	19:g:149:HIS:HB3	1.84	0.59
19:g:165:ALA:O	19:g:170:GLN:N	2.34	0.59
22:A:433:ASN:HD21	26:K:64:ILE:HG23	1.68	0.59
23:B:186:ASP:O	23:B:367:ILE:HG21	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:E:111:LEU:HD11	25:F:133:PHE:CD2	2.38	0.59
25:F:279:ALA:CB	25:F:280:PRO:HD2	2.27	0.59
26:K:89:ILE:O	26:K:92:ALA:N	2.31	0.59
27:U:24:LEU:HD21	27:U:45:ILE:HG23	1.83	0.59
27:U:137:MET:O	27:U:141:CYS:N	2.30	0.59
5:I:38:LEU:CD2	5:I:160:LYS:HB3	2.29	0.59
5:I:227:VAL:HG23	5:I:227:VAL:O	2.03	0.59
7:L:10:VAL:HG21	7:L:120:THR:HA	1.84	0.59
7:L:109:VAL:HG22	7:L:134:ILE:CD1	2.33	0.59
9:V:161:PRO:HA	9:V:164:GLU:CD	2.28	0.59
10:W:135:LYS:HB2	10:W:138:VAL:HG12	1.84	0.59
10:W:407:ASP:OD1	11:X:344:ARG:HB2	2.01	0.59
10:W:408:ARG:NH1	11:X:346:GLN:OE1	2.32	0.59
13:Z:220:LEU:HG	13:Z:221:PRO:HD2	1.85	0.59
14:a:249:GLN:O	14:a:253:THR:N	2.28	0.59
15:b:151:GLU:HA	15:b:154:THR:HG22	1.84	0.59
18:f:45:LEU:HB2	18:f:50:LYS:HE2	1.83	0.59
18:f:433:LEU:HG	19:g:173:GLU:HA	1.85	0.59
22:A:166:VAL:O	22:A:166:VAL:HG13	2.01	0.59
22:A:276:GLU:OE1	22:A:276:GLU:HA	2.01	0.59
25:F:287:GLU:N	25:F:331:ALA:O	2.36	0.59
25:F:375:VAL:HG11	25:F:381:TYR:OH	2.03	0.59
27:U:164:GLU:HG2	27:U:168:LEU:HD13	1.83	0.59
27:U:566:LEU:O	27:U:570:LEU:HB2	2.03	0.59
5:I:180:LYS:HD2	5:I:183:GLU:O	2.03	0.59
7:L:52:ALA:HB2	7:L:59:HIS:ND1	2.18	0.59
7:L:134:ILE:N	7:L:145:PHE:O	2.33	0.59
9:V:326:GLN:O	9:V:330:LYS:HG3	2.03	0.59
10:W:268:LYS:HA	10:W:302:TYR:CD2	2.37	0.59
10:W:396:LEU:HD22	10:W:401:THR:HG21	1.84	0.59
13:Z:29:VAL:HG23	13:Z:30:GLY:H	1.67	0.59
13:Z:186:THR:O	13:Z:190:ARG:HG2	2.03	0.59
14:a:116:THR:HA	14:a:119:GLY:HA3	1.83	0.59
14:a:252:LYS:HA	14:a:255:TRP:NE1	2.17	0.59
14:a:374:ILE:HD13	17:d:347:GLU:CB	2.32	0.59
22:A:174:TYR:HD2	22:A:232:ARG:HD3	1.66	0.59
25:F:350:ARG:HB3	25:F:350:ARG:NH1	2.18	0.59
27:U:193:PHE:O	27:U:197:VAL:HG23	2.03	0.59
27:U:673:GLU:OE2	27:U:673:GLU:HA	2.03	0.59
3:G:79:VAL:HG12	3:G:139:ILE:HD12	1.84	0.59
5:I:159:TRP:CE3	6:J:54:GLN:HB3	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:L:188:VAL:CG2	7:L:212:ILE:HG21	2.33	0.59
8:M:161:TRP:CE2	8:M:182:LYS:HE3	2.38	0.59
10:W:296:LEU:HD23	10:W:303:LYS:HD2	1.85	0.59
14:a:157:ASP:HA	14:a:160:SER:OG	2.03	0.59
14:a:366:LEU:HD23	14:a:366:LEU:O	2.03	0.59
15:b:23:PRO:HG2	15:b:27:GLN:NE2	2.16	0.59
18:f:372:LEU:CD2	18:f:406:GLY:HA2	2.32	0.59
19:g:85:ILE:HD11	19:g:131:ILE:HD11	1.85	0.59
19:g:104:ARG:C	19:g:105:LEU:HD22	2.28	0.59
22:A:72:LEU:HD11	23:B:103:ARG:HH22	1.66	0.59
22:A:105:ASP:OD1	22:A:108:ASP:N	2.30	0.59
23:B:167:THR:OG1	23:B:272:ARG:NH2	2.35	0.59
25:F:225:MET:HE1	25:F:236:LEU:HD22	1.83	0.59
25:F:253:GLY:N	25:F:286:ASP:O	2.32	0.59
27:U:142:LEU:HD21	27:U:166:THR:HG22	1.84	0.59
27:U:323:LEU:O	27:U:327:LYS:HG2	2.03	0.59
1:C:275:GLU:OE2	23:B:251:VAL:HG11	2.03	0.59
2:D:235:PHE:HD1	2:D:246:MET:HG2	1.68	0.59
2:D:269:ALA:HB2	24:E:258:MET:CE	2.32	0.59
2:D:309:MET:CE	2:D:327:LEU:HD11	2.30	0.59
2:D:378:ILE:CG1	2:D:406:VAL:HB	2.33	0.59
3:G:113:MET:O	3:G:116:LYS:N	2.36	0.59
5:I:140:ASP:OD1	5:I:143:TYR:N	2.26	0.59
7:L:33:SER:HB2	7:L:62:LYS:HZ1	1.67	0.59
7:L:116:THR:O	7:L:119:PRO:HD2	2.03	0.59
9:V:181:TYR:HB2	9:V:221:LEU:HD21	1.83	0.59
9:V:182:LYS:HA	9:V:185:GLN:CB	2.31	0.59
10:W:198:ASP:OD2	10:W:201:ARG:NH1	2.36	0.59
11:X:141:LYS:HE2	11:X:141:LYS:HA	1.85	0.59
11:X:380:GLN:HB3	12:Y:314:LEU:HA	1.83	0.59
12:Y:105:MET:SD	12:Y:140:ILE:HD11	2.43	0.59
14:a:76:LEU:O	14:a:80:ILE:HG12	2.02	0.59
15:b:26:LEU:HD21	15:b:80:PRO:HD3	1.85	0.59
15:b:108:ARG:HA	15:b:137:ASN:O	2.02	0.59
18:f:159:VAL:HG11	18:f:194:TYR:CD2	2.38	0.59
18:f:416:MET:HB2	18:f:450:ILE:HD13	1.84	0.59
18:f:703:ARG:HB3	18:f:706:ILE:CG2	2.33	0.59
24:E:184:ALA:HB2	24:E:276:ILE:HG21	1.85	0.59
24:E:276:ILE:O	24:E:276:ILE:CG2	2.51	0.59
24:E:317:ALA:HA	24:E:347:CYS:SG	2.43	0.59
26:K:146:VAL:HG12	26:K:151:PRO:CA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:142:LEU:CD2	27:U:166:THR:HG22	2.33	0.59
27:U:602:LEU:HD22	27:U:618:ALA:O	2.03	0.59
27:U:646:PRO:HB3	27:U:680:VAL:HG21	1.85	0.59
10:W:125:ILE:HG22	10:W:145:LEU:CD1	2.33	0.58
11:X:219:ALA:O	11:X:322:HIS:NE2	2.32	0.58
12:Y:14:ASN:HD21	12:Y:113:ARG:HH11	1.51	0.58
13:Z:246:VAL:HG13	17:d:330:ILE:HD11	1.83	0.58
14:a:54:ASP:OD2	14:a:86:GLN:HG3	2.02	0.58
14:a:137:ASP:OD1	14:a:138:VAL:HG23	2.03	0.58
14:a:148:VAL:CG1	14:a:151:VAL:HG22	2.31	0.58
15:b:7:MET:HE3	15:b:64:LEU:HG	1.85	0.58
17:d:91:ALA:O	17:d:95:TYR:N	2.32	0.58
17:d:282:ILE:HB	17:d:318:PHE:CE2	2.38	0.58
18:f:391:LEU:CG	18:f:414:LEU:HG	2.33	0.58
18:f:609:VAL:CG1	23:B:74:MET:HE1	2.30	0.58
22:A:190:VAL:CG2	22:A:209:PRO:HB2	2.33	0.58
23:B:223:ILE:CB	23:B:347:ILE:HG21	2.33	0.58
24:E:171:LEU:HD11	24:E:279:THR:CG2	2.31	0.58
27:U:9:ILE:HA	27:U:12:LEU:HD13	1.85	0.58
1:C:139:MET:HE1	1:C:241:HIS:ND1	2.18	0.58
1:C:329:LEU:HD23	1:C:363:CYS:SG	2.43	0.58
2:D:152:MET:HB3	2:D:229:ARG:HH12	1.68	0.58
2:D:348:ILE:HD13	2:D:376:ASN:HA	1.86	0.58
4:H:34:PRO:HG2	4:H:49:GLU:HG2	1.84	0.58
4:H:67:PRO:O	4:H:91:ARG:NH2	2.33	0.58
5:I:76:VAL:HG11	5:I:83:ALA:HB1	1.85	0.58
5:I:118:LYS:HZ3	5:I:118:LYS:HB2	1.68	0.58
7:L:83:LEU:HD11	26:K:125:GLU:HB3	1.85	0.58
7:L:155:ASP:HB2	8:M:62:SER:CB	2.32	0.58
12:Y:320:ALA:HB1	12:Y:325:VAL:O	2.02	0.58
12:Y:381:GLN:O	12:Y:385:ARG:HG2	2.03	0.58
13:Z:195:VAL:HG23	14:a:367:VAL:HG12	1.85	0.58
14:a:83:VAL:HG12	14:a:87:MET:HG2	1.83	0.58
14:a:210:VAL:O	14:a:271:LYS:NZ	2.36	0.58
18:f:422:VAL:O	18:f:426:LEU:HB2	2.03	0.58
18:f:437:GLU:HG2	18:f:439:TYR:HB3	1.84	0.58
18:f:542:ILE:CD1	18:f:562:LEU:HD12	2.34	0.58
18:f:543:MET:HA	18:f:543:MET:CE	2.24	0.58
18:f:669:GLU:OE1	23:B:50:PRO:HG3	2.03	0.58
18:f:785:ARG:HH21	18:f:877:GLY:H	1.50	0.58
19:g:107:ILE:HD11	19:g:115:LYS:HD3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:120:LYS:HB2	25:F:90:VAL:HG11	1.83	0.58
22:A:322:ASN:OD1	22:A:322:ASN:N	2.37	0.58
23:B:366:GLN:HA	23:B:369:THR:HG22	1.85	0.58
24:E:361:PHE:CE1	24:E:366:ASP:CB	2.86	0.58
1:C:215:SER:O	1:C:218:GLU:HG3	2.03	0.58
4:H:120:GLU:O	4:H:123:GLN:HG2	2.04	0.58
5:I:4:ARG:NH2	5:I:23:TYR:OH	2.36	0.58
6:J:108:THR:CG2	6:J:153:TYR:HB2	2.33	0.58
7:L:164:ARG:HD2	7:L:198:THR:O	2.03	0.58
9:V:67:LEU:O	9:V:70:VAL:HG12	2.03	0.58
9:V:118:GLN:HA	9:V:122:THR:CG2	2.33	0.58
9:V:176:MET:HE3	9:V:217:VAL:CG1	2.33	0.58
12:Y:225:TYR:OH	12:Y:281:GLU:OE2	2.21	0.58
12:Y:313:SER:HA	12:Y:354:VAL:O	2.03	0.58
14:a:8:LEU:HA	14:a:22:TRP:CZ3	2.38	0.58
14:a:197:ALA:HB3	14:a:226:ARG:HD2	1.84	0.58
15:b:71:ILE:HD12	15:b:71:ILE:N	2.19	0.58
17:d:168:MET:HE2	17:d:195:ASN:ND2	2.18	0.58
18:f:231:LEU:CD2	18:f:853:VAL:HA	2.33	0.58
18:f:388:ASP:O	18:f:392:THR:OG1	2.21	0.58
22:A:393:GLY:C	23:B:216:ILE:HD11	2.28	0.58
23:B:395:ILE:HA	23:B:398:ILE:CG2	2.33	0.58
25:F:277:GLU:HB3	25:F:278:LYS:HZ2	1.68	0.58
27:U:137:MET:HE2	27:U:137:MET:CA	2.33	0.58
27:U:241:ASN:ND2	27:U:244:MET:HB2	2.17	0.58
27:U:243:LEU:HD23	27:U:913:ILE:CD1	2.28	0.58
27:U:352:ILE:HA	27:U:355:ASN:HD21	1.69	0.58
27:U:354:LYS:HA	27:U:357:LYS:HG2	1.85	0.58
1:C:29:GLU:OE2	9:V:200:ARG:HA	2.04	0.58
1:C:84:LYS:HD3	1:C:96:VAL:HG12	1.85	0.58
1:C:271:ARG:CZ	1:C:271:ARG:HB2	2.33	0.58
3:G:208:ILE:HG22	3:G:210:PHE:H	1.68	0.58
7:L:40:SER:HB3	7:L:187:LEU:HD22	1.84	0.58
7:L:44:ALA:HB3	7:L:215:VAL:HG13	1.85	0.58
9:V:117:VAL:O	9:V:122:THR:HG23	2.03	0.58
10:W:276:LEU:CD2	10:W:354:LEU:HD13	2.34	0.58
11:X:213:GLN:NE2	11:X:217:ILE:HD11	2.19	0.58
13:Z:97:THR:HA	13:Z:124:ILE:O	2.03	0.58
14:a:74:LEU:HA	14:a:77:VAL:HG12	1.85	0.58
14:a:148:VAL:HG11	14:a:151:VAL:HG13	1.85	0.58
14:a:281:THR:HG23	14:a:335:TRP:CZ3	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:75:LEU:O	15:b:78:VAL:HB	2.04	0.58
22:A:333:ARG:HG3	22:A:334:PRO:HD2	1.86	0.58
22:A:348:LEU:O	22:A:348:LEU:HD23	2.03	0.58
24:E:310:LEU:CD2	24:E:328:TYR:HB3	2.33	0.58
26:K:37:ALA:HB3	26:K:170:ILE:HG12	1.84	0.58
1:C:257:SER:O	2:D:283:ARG:NH2	2.36	0.58
2:D:161:ASP:OD1	2:D:161:ASP:O	2.21	0.58
5:I:148:TYR:HD1	5:I:158:GLY:HA2	1.68	0.58
7:L:192:LEU:CD2	7:L:210:VAL:HG11	2.34	0.58
8:M:196:ILE:CA	8:M:199:ILE:HD12	2.29	0.58
9:V:235:LEU:HD11	9:V:251:LEU:HD13	1.84	0.58
10:W:251:TYR:HB2	10:W:266:ALA:CB	2.34	0.58
14:a:214:GLY:HA2	14:a:340:VAL:CG1	2.31	0.58
17:d:85:GLY:O	17:d:89:GLN:HG3	2.04	0.58
24:E:33:LEU:CD2	25:F:66:LEU:HA	2.32	0.58
24:E:352:MET:HA	24:E:355:ILE:HD12	1.85	0.58
25:F:280:PRO:CA	25:F:325:GLN:HB3	2.34	0.58
27:U:465:LEU:HD22	27:U:496:LEU:CD2	2.33	0.58
2:D:282:ASP:O	2:D:286:GLN:HG2	2.03	0.58
4:H:109:GLN:HB3	4:H:113:ARG:NH2	2.18	0.58
7:L:155:ASP:O	8:M:59:GLU:N	2.36	0.58
9:V:428:LEU:HD12	9:V:434:ALA:HB2	1.83	0.58
10:W:133:GLU:HA	10:W:142:ARG:NE	2.18	0.58
11:X:267:VAL:HG11	11:X:291:ALA:HB1	1.85	0.58
11:X:363:ARG:NH2	12:Y:266:CYS:HB3	2.18	0.58
12:Y:111:LEU:O	12:Y:114:ILE:HG13	2.04	0.58
12:Y:279:GLU:CB	12:Y:296:VAL:HG21	2.34	0.58
13:Z:47:VAL:HG23	13:Z:47:VAL:O	2.03	0.58
17:d:218:LYS:C	17:d:218:LYS:HD3	2.28	0.58
18:f:726:ILE:CD1	18:f:748:LEU:HD13	2.32	0.58
19:g:114:SER:O	19:g:118:GLU:HB3	2.03	0.58
23:B:256:ILE:CD1	23:B:305:ILE:HG23	2.34	0.58
23:B:415:THR:OG1	23:B:416:ASN:N	2.37	0.58
24:E:33:LEU:CD1	25:F:65:GLU:HB2	2.32	0.58
25:F:198:LEU:HD21	25:F:329:ILE:HD11	1.84	0.58
2:D:341:LYS:HD3	2:D:370:ILE:HG13	1.86	0.58
2:D:388:ARG:HH22	24:E:147:GLU:CG	2.04	0.58
3:G:51:VAL:CG1	3:G:217:VAL:HG22	2.31	0.58
5:I:84:ASN:O	5:I:87:THR:HG22	2.04	0.58
7:L:34:ALA:HA	7:L:162:GLY:CA	2.29	0.58
7:L:46:LEU:HD23	7:L:135:ALA:CB	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M:77:VAL:CG1	8:M:84:ALA:HB1	2.33	0.58
9:V:123:SER:HB2	9:V:125:ASN:OD1	2.04	0.58
9:V:337:LEU:HD22	9:V:367:VAL:CG2	2.32	0.58
9:V:345:ARG:HD3	9:V:345:ARG:C	2.29	0.58
10:W:251:TYR:HB2	10:W:266:ALA:HB1	1.86	0.58
11:X:234:GLU:HA	11:X:234:GLU:OE2	2.02	0.58
14:a:134:THR:O	14:a:138:VAL:HG23	2.03	0.58
15:b:38:HIS:HE1	15:b:72:LEU:HD11	1.69	0.58
15:b:113:VAL:HG21	15:b:140:ILE:HD12	1.84	0.58
17:d:130:PRO:HG3	27:U:3:THR:HG23	1.84	0.58
18:f:62:ARG:NH2	18:f:70:LEU:HD23	2.18	0.58
18:f:180:GLN:O	18:f:183:PRO:HG2	2.03	0.58
22:A:105:ASP:O	22:A:106:SER:HB2	2.03	0.58
22:A:240:VAL:HG21	22:A:274:PHE:CD1	2.39	0.58
22:A:393:GLY:O	22:A:396:ALA:N	2.37	0.58
23:B:49:LEU:HD13	23:B:68:ILE:HG21	1.85	0.58
23:B:187:ILE:CG2	23:B:234:LEU:HG	2.33	0.58
25:F:278:LYS:HD3	25:F:278:LYS:N	2.17	0.58
27:U:88:PHE:CG	27:U:89:ASN:N	2.71	0.58
28:e:21:GLU:CD	28:e:21:GLU:H	2.12	0.58
1:C:89:VAL:HG12	1:C:91:PRO:HD2	1.84	0.58
1:C:308:PRO:HB3	23:B:397:ALA:CB	2.33	0.58
2:D:113:VAL:HB	2:D:138:ALA:HA	1.85	0.58
3:G:29:PHE:CE2	3:G:156:PRO:HD2	2.38	0.58
9:V:131:LEU:HB2	9:V:171:VAL:HG11	1.84	0.58
9:V:408:ARG:HG2	9:V:408:ARG:NH1	2.18	0.58
9:V:470:ARG:O	9:V:470:ARG:HG2	2.04	0.58
10:W:72:LYS:O	10:W:76:GLU:HG2	2.03	0.58
12:Y:55:GLU:OE1	12:Y:65:ILE:HD13	2.03	0.58
14:a:154:ARG:O	14:a:158:LEU:HB3	2.03	0.58
16:c:181:LEU:CD2	27:U:725:MET:HE2	2.33	0.58
18:f:678:LEU:O	18:f:682:GLY:HA3	2.03	0.58
18:f:880:ALA:O	18:f:894:LEU:HD22	2.04	0.58
19:g:128:LYS:CB	19:g:158:LEU:HD22	2.34	0.58
20:u:189:GLN:O	20:u:259:ARG:N	2.37	0.58
23:B:86:LYS:HD2	23:B:87:PRO:CD	2.20	0.58
24:E:145:LEU:CD1	24:E:172:LEU:HD11	2.33	0.58
24:E:200:SER:HB3	24:E:238:ILE:HD13	1.86	0.58
26:K:220:VAL:HB	26:K:228:MET:HE2	1.86	0.58
27:U:419:ALA:CA	27:U:422:LEU:HB3	2.33	0.58
27:U:599:ILE:CD1	27:U:626:LEU:HD11	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:204:MET:HE2	2:D:308:ILE:CG2	2.34	0.58
2:D:254:ALA:HB2	2:D:262:ILE:HD11	1.83	0.58
2:D:397:LYS:HG3	2:D:398:ASP:OD1	2.03	0.58
3:G:172:GLN:HA	3:G:175:SER:OG	2.03	0.58
4:H:132:VAL:HG23	4:H:132:VAL:O	2.03	0.58
7:L:146:GLN:OE1	7:L:159:MET:HG2	2.03	0.58
8:M:52:LEU:HD11	8:M:206:ASP:HB3	1.85	0.58
9:V:161:PRO:HA	9:V:164:GLU:OE2	2.04	0.58
10:W:108:CYS:CB	10:W:128:LEU:HD21	2.34	0.58
10:W:278:PRO:HG3	10:W:357:ARG:NH2	2.16	0.58
10:W:414:ASN:C	10:W:414:ASN:OD1	2.47	0.58
12:Y:56:ALA:HA	12:Y:59:LYS:CE	2.34	0.58
14:a:110:ALA:HA	14:a:113:LEU:CD1	2.33	0.58
15:b:73:SER:HA	25:F:61:ARG:HD2	1.83	0.58
18:f:62:ARG:NH1	18:f:74:ALA:HB2	2.17	0.58
18:f:143:ARG:NH1	18:f:148:GLN:O	2.37	0.58
18:f:339:ILE:O	18:f:773:LYS:NZ	2.37	0.58
18:f:371:ASN:O	18:f:375:SER:N	2.34	0.58
18:f:654:VAL:HG22	18:f:678:LEU:CD2	2.33	0.58
19:g:108:THR:HG22	19:g:109:GLY:N	2.19	0.58
22:A:119:ALA:HB3	22:A:121:PHE:CE1	2.39	0.58
23:B:69:LYS:HE2	27:U:833:LEU:HD22	1.85	0.58
23:B:397:ALA:O	23:B:426:VAL:HG21	2.04	0.58
24:E:259:GLU:OE1	24:E:259:GLU:HA	2.04	0.58
27:U:136:LYS:O	27:U:140:ARG:N	2.36	0.58
27:U:606:ALA:HB2	27:U:618:ALA:CB	2.34	0.58
27:U:789:ILE:N	27:U:789:ILE:HD12	2.18	0.58
27:U:804:SER:HA	27:U:892:LEU:HA	1.86	0.58
4:H:176:LYS:NZ	11:X:200:ILE:O	2.37	0.58
7:L:126:ARG:HH11	7:L:126:ARG:HG3	1.69	0.58
8:M:111:LEU:HD12	8:M:111:LEU:O	2.03	0.58
9:V:114:TYR:CG	9:V:138:PRO:HD2	2.38	0.58
9:V:127:THR:O	9:V:131:LEU:HD23	2.04	0.58
9:V:289:LEU:HB3	9:V:312:ALA:HB2	1.85	0.58
9:V:495:ARG:HA	9:V:495:ARG:HE	1.69	0.58
10:W:214:PHE:HB3	10:W:223:LYS:CB	2.33	0.58
10:W:369:TYR:HD2	14:a:312:MET:SD	2.27	0.58
11:X:118:LYS:CD	11:X:126:ARG:HG3	2.34	0.58
13:Z:6:VAL:HG12	13:Z:43:TRP:CH2	2.39	0.58
13:Z:22:HIS:CE1	13:Z:35:VAL:HB	2.39	0.58
14:a:309:LEU:HD12	14:a:312:MET:HB3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:29:GLN:HB2	15:b:112:PHE:CD2	2.38	0.58
17:d:119:LEU:HD13	17:d:147:ILE:CG1	2.33	0.58
17:d:258:PHE:CE2	17:d:262:ILE:HD11	2.38	0.58
18:f:409:SER:OG	18:f:815:HIS:HB2	2.04	0.58
18:f:683:GLU:H	18:f:686:LEU:HD12	1.68	0.58
22:A:415:LYS:HA	22:A:419:SER:HB2	1.86	0.58
24:E:65:THR:HG22	24:E:68:LYS:HB2	1.85	0.58
25:F:230:GLY:HA3	25:F:392:ASN:HB2	1.85	0.58
25:F:286:ASP:HA	25:F:331:ALA:HB3	1.84	0.58
26:K:88:LEU:HD13	26:K:116:VAL:HG12	1.86	0.58
26:K:203:LYS:HG3	26:K:210:LEU:HB3	1.86	0.58
27:U:245:ALA:HB1	27:U:325:MET:HE3	1.84	0.58
27:U:443:LEU:CD2	27:U:477:GLY:HA2	2.30	0.58
27:U:699:THR:HG21	27:U:812:ALA:H	1.69	0.58
27:U:803:LYS:HB2	27:U:875:PHE:HD1	1.68	0.58
27:U:811:PHE:HD1	27:U:885:MET:HE1	1.69	0.58
1:C:25:LEU:O	1:C:28:ILE:HG12	2.03	0.57
1:C:114:VAL:HG21	1:C:123:LEU:CD1	2.33	0.57
5:I:121:TYR:CE1	5:I:127:LYS:HD2	2.39	0.57
6:J:45:VAL:HG11	6:J:61:LYS:HD2	1.85	0.57
9:V:237:THR:HG22	9:V:241:ARG:HH22	1.68	0.57
9:V:260:HIS:O	9:V:260:HIS:ND1	2.35	0.57
10:W:63:THR:O	10:W:67:LEU:HB2	2.04	0.57
10:W:166:LEU:HD23	10:W:192:LEU:CD1	2.34	0.57
10:W:289:ARG:HB3	10:W:289:ARG:NH1	2.18	0.57
11:X:212:MET:HE1	11:X:250:SER:CA	2.28	0.57
14:a:179:PHE:CD2	14:a:180:LEU:HD23	2.39	0.57
15:b:11:ASP:OD2	15:b:84:ILE:HD12	2.04	0.57
15:b:35:ILE:O	15:b:39:SER:HB3	2.04	0.57
17:d:301:ASP:HA	17:d:304:LYS:HZ2	1.69	0.57
18:f:67:ASP:HB3	18:f:70:LEU:HD12	1.85	0.57
18:f:107:LYS:HE3	18:f:142:TYR:CZ	2.39	0.57
18:f:298:LEU:HD22	18:f:303:VAL:HB	1.86	0.57
18:f:512:MET:HE2	18:f:512:MET:HA	1.85	0.57
18:f:585:GLU:HB3	18:f:586:PRO:HA	1.85	0.57
19:g:106:HIS:CE1	19:g:107:ILE:HG23	2.39	0.57
19:g:131:ILE:CG1	19:g:147:VAL:HG13	2.26	0.57
22:A:96:ALA:HB1	22:A:114:ASN:O	2.04	0.57
22:A:333:ARG:HH12	22:A:335:GLY:HA3	1.69	0.57
23:B:264:PRO:O	23:B:267:VAL:HG22	2.04	0.57
23:B:356:PRO:HB2	23:B:361:LYS:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:89:LEU:O	25:F:153:VAL:HG22	2.04	0.57
25:F:91:SER:O	25:F:150:LEU:HD13	2.04	0.57
25:F:224:LEU:CD2	25:F:343:LEU:HD21	2.32	0.57
27:U:198:LEU:O	27:U:202:VAL:HG12	2.04	0.57
27:U:419:ALA:HB2	27:U:449:ILE:HG21	1.87	0.57
1:C:76:VAL:HG22	1:C:87:VAL:HG12	1.86	0.57
1:C:194:THR:CG2	1:C:317:PHE:HB3	2.33	0.57
6:J:133:ILE:CD1	6:J:147:THR:HG23	2.31	0.57
7:L:84:LEU:HD22	7:L:112:ILE:HD11	1.86	0.57
7:L:168:ALA:HB2	7:L:198:THR:CG2	2.33	0.57
8:M:46:VAL:HG12	8:M:193:VAL:HG21	1.85	0.57
8:M:78:ALA:HB3	8:M:165:ILE:CG2	2.35	0.57
10:W:315:MET:CE	10:W:358:VAL:HG22	2.29	0.57
12:Y:14:ASN:ND2	12:Y:113:ARG:HD3	2.18	0.57
12:Y:42:MET:HE1	12:Y:54:TYR:CZ	2.39	0.57
12:Y:104:MET:HE1	12:Y:130:LYS:CE	2.34	0.57
14:a:248:PHE:O	14:a:252:LYS:N	2.34	0.57
15:b:16:MET:O	15:b:25:ARG:HB2	2.04	0.57
16:c:38:LEU:HD11	16:c:155:VAL:HG11	1.85	0.57
17:d:153:GLN:HA	17:d:156:ILE:CG1	2.33	0.57
17:d:172:LYS:HE3	17:d:195:ASN:ND2	2.19	0.57
17:d:302:TYR:HD1	17:d:306:ARG:CG	2.16	0.57
18:f:208:LEU:HD11	18:f:217:LEU:HD13	1.84	0.57
18:f:459:CYS:SG	19:g:154:MET:HB2	2.44	0.57
18:f:502:LEU:HD22	18:f:537:THR:HG21	1.87	0.57
27:U:251:ASP:HA	27:U:254:GLU:OE2	2.04	0.57
27:U:351:MET:HE3	27:U:351:MET:CA	2.34	0.57
1:C:91:PRO:HG3	2:D:109:SER:OG	2.03	0.57
1:C:146:SER:O	1:C:202:ALA:HA	2.03	0.57
2:D:104:GLY:HA2	2:D:110:ASN:HA	1.85	0.57
3:G:161:CYS:HB3	3:G:163:PHE:CE1	2.40	0.57
7:L:56:LEU:CD1	26:K:167:ALA:HB3	2.34	0.57
8:M:75:MET:HE1	8:M:88:ALA:CA	2.34	0.57
8:M:83:ASP:OD1	8:M:129:ARG:NH2	2.23	0.57
8:M:136:MET:CE	8:M:150:MET:HB2	2.26	0.57
9:V:467:TYR:HH	11:X:397:TYR:HE2	1.50	0.57
10:W:436:MET:HG2	16:c:225:TRP:CH2	2.38	0.57
11:X:414:LEU:HD21	13:Z:273:HIS:HB2	1.86	0.57
13:Z:36:VAL:HG13	13:Z:94:TRP:HE3	1.70	0.57
14:a:321:LYS:HG3	14:a:336:VAL:HG22	1.85	0.57
17:d:256:TYR:O	17:d:260:ILE:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:301:ASP:HA	17:d:304:LYS:NZ	2.19	0.57
18:f:173:LEU:HD22	18:f:180:GLN:HB2	1.85	0.57
18:f:700:SER:O	18:f:700:SER:OG	2.18	0.57
19:g:161:SER:HB3	19:g:164:ASP:N	2.14	0.57
22:A:52:ILE:CD1	23:B:72:LEU:HD12	2.34	0.57
22:A:352:THR:HG22	22:A:374:ALA:HB2	1.86	0.57
22:A:431:THR:HG23	22:A:432:TYR:HD1	1.67	0.57
23:B:383:LEU:O	23:B:423:LYS:NZ	2.36	0.57
25:F:332:THR:HG22	25:F:334:ARG:H	1.68	0.57
26:K:74:ILE:HD12	26:K:109:VAL:HB	1.87	0.57
27:U:748:LEU:HB3	27:U:760:VAL:HG23	1.86	0.57
1:C:161:ILE:O	1:C:161:ILE:HG13	2.04	0.57
1:C:258:ARG:HB3	1:C:270:GLN:OE1	2.05	0.57
2:D:64:GLU:O	2:D:68:LEU:HD13	2.05	0.57
2:D:230:VAL:O	2:D:264:ILE:HA	2.04	0.57
4:H:212:ILE:HG13	4:H:212:ILE:O	2.03	0.57
5:I:161:ALA:HB1	5:I:175:LEU:CD2	2.19	0.57
6:J:212:ARG:HD2	6:J:215:GLN:OE1	2.04	0.57
7:L:96:ARG:O	7:L:100:ASP:HA	2.04	0.57
9:V:113:LEU:CD1	9:V:171:VAL:HA	2.34	0.57
9:V:150:ARG:NH1	9:V:157:THR:O	2.36	0.57
9:V:181:TYR:O	9:V:185:GLN:HB2	2.04	0.57
9:V:237:THR:O	9:V:241:ARG:NH1	2.37	0.57
9:V:314:ARG:HG2	9:V:314:ARG:HH11	1.69	0.57
10:W:203:GLN:CG	10:W:233:LEU:HD21	2.24	0.57
10:W:244:CYS:HB2	10:W:273:TYR:CB	2.33	0.57
10:W:370:TYR:CD2	10:W:373:ILE:HB	2.40	0.57
11:X:89:VAL:HA	11:X:92:LEU:HB2	1.85	0.57
11:X:126:ARG:HH21	11:X:127:GLN:HE21	1.53	0.57
12:Y:26:LEU:HD13	12:Y:63:TRP:HZ2	1.70	0.57
13:Z:67:VAL:HG13	15:b:91:ARG:HB2	1.86	0.57
13:Z:145:HIS:HE1	13:Z:151:THR:HA	1.65	0.57
14:a:36:GLN:H	14:a:36:GLN:CD	2.09	0.57
14:a:160:SER:C	14:a:163:TYR:HB3	2.28	0.57
15:b:130:ARG:HD2	15:b:134:GLU:OE2	2.03	0.57
17:d:98:LEU:HB2	17:d:115:GLU:HG2	1.87	0.57
17:d:275:ILE:HA	17:d:279:TYR:CE2	2.40	0.57
18:f:233:LEU:O	18:f:237:VAL:HG22	2.04	0.57
18:f:423:ASP:O	18:f:427:THR:HG23	2.05	0.57
18:f:796:LEU:H	18:f:796:LEU:HD12	1.70	0.57
19:g:112:LEU:HA	19:g:115:LYS:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:240:VAL:HG21	22:A:274:PHE:CE1	2.38	0.57
24:E:152:PRO:HB3	24:E:166:PRO:HB2	1.86	0.57
24:E:359:HIS:CE1	25:F:214:ASN:HD22	2.23	0.57
25:F:310:MET:HE3	25:F:342:LEU:HG	1.87	0.57
27:U:871:PRO:HA	27:U:875:PHE:HE2	1.70	0.57
5:I:21:VAL:HG12	23:B:438:LEU:HD21	1.85	0.57
5:I:240:HIS:NE2	5:I:244:GLU:OE2	2.37	0.57
6:J:6:ALA:HB3	6:J:9:VAL:CG2	2.34	0.57
11:X:57:LEU:HA	11:X:60:THR:OG1	2.05	0.57
11:X:248:ILE:HD13	11:X:279:TYR:HB3	1.85	0.57
11:X:346:GLN:HA	11:X:383:GLY:O	2.05	0.57
11:X:407:MET:CA	11:X:410:VAL:HG12	2.34	0.57
12:Y:104:MET:HG2	12:Y:127:THR:OG1	2.04	0.57
12:Y:121:LEU:HD11	12:Y:156:LEU:HD21	1.86	0.57
13:Z:10:VAL:HA	13:Z:161:GLU:O	2.05	0.57
13:Z:195:VAL:CG2	14:a:367:VAL:HG12	2.34	0.57
14:a:82:HIS:O	14:a:86:GLN:HB2	2.05	0.57
14:a:93:ALA:CB	14:a:121:LEU:HD22	2.34	0.57
16:c:118:PHE:HB3	16:c:121:TRP:HZ2	1.69	0.57
17:d:104:ARG:NE	17:d:106:SER:O	2.37	0.57
17:d:129:LEU:CD1	27:U:26:LYS:HG2	2.35	0.57
22:A:52:ILE:HD11	23:B:69:LYS:CA	2.34	0.57
22:A:334:PRO:HB2	25:F:398:ALA:HB2	1.86	0.57
22:A:388:VAL:HG23	22:A:416:VAL:HG11	1.84	0.57
26:K:99:HIS:CD2	26:K:107:MET:HG3	2.40	0.57
2:D:150:SER:HB3	2:D:253:LEU:CD2	2.35	0.57
2:D:154:LEU:HD12	2:D:227:PHE:CB	2.21	0.57
2:D:301:GLN:OE1	2:D:301:GLN:HA	2.03	0.57
3:G:32:ILE:HD11	3:G:156:PRO:HG3	1.86	0.57
3:G:77:GLY:HA3	3:G:227:PHE:CE1	2.39	0.57
6:J:36:ARG:HB3	6:J:144:LEU:HD23	1.87	0.57
9:V:79:VAL:HA	9:V:82:LEU:HB2	1.86	0.57
10:W:103:LYS:HA	10:W:106:GLN:OE1	2.04	0.57
10:W:191:ARG:HG2	10:W:191:ARG:HH11	1.69	0.57
11:X:418:ALA:HB2	13:Z:276:ILE:HD13	1.85	0.57
13:Z:222:ILE:HD11	14:a:343:LEU:CD2	2.34	0.57
14:a:34:TRP:CB	14:a:70:ARG:HB2	2.35	0.57
14:a:245:VAL:C	14:a:246:GLU:HG3	2.30	0.57
18:f:226:TYR:HA	18:f:229:VAL:HG12	1.86	0.57
18:f:417:ILE:O	18:f:418:LEU:HD22	2.04	0.57
18:f:501:LEU:HB3	18:f:522:CYS:SG	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:g:89:LEU:HD23	19:g:155:VAL:HG21	1.87	0.57
24:E:187:VAL:HG13	24:E:229:ILE:HD13	1.86	0.57
24:E:235:ILE:HG22	24:E:235:ILE:O	2.04	0.57
25:F:211:LYS:HG3	25:F:212:PHE:N	2.18	0.57
25:F:251:LEU:O	25:F:251:LEU:HG	2.04	0.57
25:F:350:ARG:HB3	25:F:350:ARG:CZ	2.35	0.57
27:U:88:PHE:CE2	27:U:89:ASN:HB2	2.39	0.57
3:G:111:VAL:HG13	3:G:140:LEU:HB3	1.87	0.57
7:L:196:ARG:NH2	7:L:239:ARG:HB2	2.18	0.57
8:M:149:TYR:HD1	8:M:159:GLY:HA2	1.70	0.57
10:W:40:LEU:HD22	10:W:79:GLU:HG3	1.87	0.57
10:W:40:LEU:CD2	10:W:82:LEU:HD22	2.30	0.57
10:W:172:GLU:HA	10:W:182:ARG:HD3	1.86	0.57
10:W:201:ARG:NH1	10:W:201:ARG:HB2	2.20	0.57
13:Z:136:GLU:HG3	13:Z:138:TYR:CE1	2.39	0.57
13:Z:175:LEU:HD11	16:c:35:SER:HB2	1.87	0.57
13:Z:176:LEU:O	13:Z:178:ASP:N	2.38	0.57
14:a:42:LEU:CD1	14:a:78:GLU:HB3	2.35	0.57
18:f:240:VAL:HG13	18:f:241:PRO:HD2	1.86	0.57
18:f:322:SER:OG	18:f:324:VAL:HG13	2.05	0.57
18:f:325:GLN:HG3	18:f:329:ASN:HD21	1.69	0.57
22:A:101:ILE:HG23	22:A:101:ILE:O	2.04	0.57
24:E:33:LEU:HD21	25:F:66:LEU:N	2.20	0.57
24:E:308:ALA:O	24:E:311:ASP:N	2.37	0.57
25:F:224:LEU:O	25:F:352:ILE:HG22	2.04	0.57
27:U:563:ALA:C	27:U:565:ALA:H	2.12	0.57
27:U:713:TYR:CE2	27:U:733:ALA:HB1	2.39	0.57
2:D:309:MET:HE3	2:D:327:LEU:CD1	2.31	0.57
4:H:179:ASN:HB3	4:H:182:LEU:CD2	2.33	0.57
8:M:200:VAL:O	8:M:201:HIS:HB3	2.04	0.57
9:V:113:LEU:HD11	9:V:174:PHE:CB	2.34	0.57
10:W:119:PRO:O	10:W:123:ARG:HG2	2.05	0.57
10:W:363:ILE:HD11	10:W:378:MET:HE2	1.85	0.57
10:W:445:LEU:CB	13:Z:226:ILE:HG21	2.35	0.57
14:a:114:CYS:CA	14:a:117:ALA:HB3	2.30	0.57
14:a:119:GLY:O	14:a:123:LEU:CB	2.53	0.57
17:d:197:LEU:HD12	17:d:256:TYR:HD1	1.70	0.57
17:d:283:LEU:HD13	17:d:315:TYR:CE1	2.35	0.57
17:d:283:LEU:HD12	17:d:284:PHE:N	2.20	0.57
18:f:420:TRP:CD1	18:f:455:VAL:HG13	2.40	0.57
18:f:589:SER:OG	18:f:649:HIS:NE2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:741:LEU:O	18:f:741:LEU:HD12	2.05	0.57
19:g:116:ILE:CD1	19:g:136:LEU:HD11	2.34	0.57
23:B:236:ALA:O	23:B:239:VAL:HG12	2.04	0.57
24:E:320:ILE:HG23	25:F:215:LEU:HD12	1.86	0.57
25:F:310:MET:HE3	25:F:342:LEU:HD21	1.87	0.57
26:K:185:TYR:HA	26:K:189:MET:HE2	1.84	0.57
27:U:88:PHE:HE1	27:U:90:VAL:HG23	1.69	0.57
27:U:638:SER:HA	27:U:671:LEU:CD1	2.33	0.57
27:U:768:GLN:O	27:U:775:LEU:HD12	2.05	0.57
2:D:116:LEU:HB3	2:D:119:ILE:CD1	2.34	0.57
2:D:414:HIS:C	2:D:415:GLU:HG3	2.29	0.57
6:J:212:ARG:HB2	6:J:215:GLN:CG	2.35	0.57
7:L:104:PRO:CG	7:L:107:ARG:HE	2.17	0.57
7:L:189:LYS:HE3	7:L:235:GLY:C	2.30	0.57
8:M:22:GLN:OE1	8:M:22:GLN:HA	2.05	0.57
10:W:26:GLN:HG3	10:W:27:ARG:N	2.18	0.57
10:W:178:GLU:OE2	10:W:180:LYS:HB3	2.04	0.57
10:W:440:ASN:HD22	16:c:226:MET:CE	2.18	0.57
11:X:349:HIS:NE2	11:X:353:LEU:HD11	2.20	0.57
11:X:379:ASP:CG	11:X:384:VAL:HG22	2.29	0.57
11:X:407:MET:SD	11:X:410:VAL:HG11	2.45	0.57
12:Y:124:PHE:HD1	12:Y:140:ILE:HD12	1.70	0.57
12:Y:309:GLU:OE2	12:Y:358:ARG:HD3	2.04	0.57
13:Z:220:LEU:HG	13:Z:221:PRO:CD	2.35	0.57
14:a:135:ILE:HD11	14:a:158:LEU:HG	1.86	0.57
14:a:185:ILE:HG22	14:a:187:ASP:OD2	2.05	0.57
17:d:85:GLY:CA	17:d:88:LEU:HB3	2.31	0.57
22:A:384:GLU:HG2	23:B:344:PRO:CG	2.28	0.57
23:B:174:MET:SD	23:B:250:VAL:HG12	2.45	0.57
23:B:225:TYR:HA	23:B:331:THR:O	2.05	0.57
23:B:278:ALA:CB	23:B:279:PRO:HD2	2.33	0.57
23:B:322:ARG:HD2	23:B:325:VAL:CG1	2.31	0.57
27:U:236:LEU:HD23	27:U:245:ALA:CB	2.34	0.57
27:U:535:TYR:O	27:U:539:THR:HG22	2.04	0.57
27:U:627:PHE:CE1	27:U:748:LEU:HB2	2.40	0.57
27:U:671:LEU:O	27:U:674:PRO:HD2	2.05	0.57
2:D:150:SER:HB3	2:D:253:LEU:HD22	1.85	0.57
2:D:353:ASN:OD1	2:D:393:ILE:HG12	2.05	0.57
2:D:360:LEU:O	2:D:364:VAL:HG13	2.04	0.57
7:L:196:ARG:HB3	7:L:205:LEU:CG	2.35	0.57
9:V:86:VAL:CG1	9:V:200:ARG:HH12	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:324:PHE:HD2	28:e:19:PHE:HE2	1.52	0.57
10:W:212:LYS:HE2	10:W:212:LYS:HA	1.86	0.57
10:W:265:GLN:OE1	10:W:336:PRO:HG2	2.05	0.57
13:Z:208:ILE:HG23	13:Z:230:LEU:HD11	1.87	0.57
14:a:86:GLN:O	14:a:88:THR:HG23	2.04	0.57
14:a:348:GLY:O	14:a:352:ARG:HG3	2.05	0.57
17:d:95:TYR:OH	17:d:146:ASP:HB3	2.04	0.57
17:d:137:THR:HG22	17:d:140:GLN:H	1.68	0.57
17:d:169:ALA:HB3	27:U:10:SER:OG	2.05	0.57
18:f:235:SER:OG	18:f:853:VAL:HG21	2.04	0.57
18:f:239:TYR:CZ	23:B:64:LYS:HG2	2.39	0.57
18:f:447:ALA:HA	18:f:450:ILE:CG2	2.33	0.57
18:f:499:THR:O	18:f:503:PRO:HD3	2.04	0.57
18:f:662:MET:HE2	18:f:781:TYR:HE1	1.69	0.57
22:A:95:VAL:CG1	22:A:139:ARG:HD2	2.35	0.57
22:A:227:ARG:HG2	23:B:319:PHE:CE1	2.39	0.57
23:B:174:MET:CE	23:B:266:LEU:HD21	2.35	0.57
23:B:223:ILE:HG23	23:B:223:ILE:O	2.05	0.57
26:K:37:ALA:O	26:K:169:ALA:HA	2.04	0.57
27:U:481:LEU:CD2	27:U:493:VAL:HG23	2.29	0.57
27:U:586:VAL:CG1	27:U:602:LEU:HD12	2.35	0.57
27:U:593:SER:O	27:U:595:ASN:N	2.37	0.57
27:U:789:ILE:HB	27:U:911:ILE:HG23	1.87	0.57
1:C:76:VAL:HG11	1:C:108:VAL:HG12	1.87	0.56
1:C:237:MET:O	1:C:237:MET:HG2	2.03	0.56
1:C:280:LEU:HD21	1:C:291:VAL:HG11	1.87	0.56
1:C:355:SER:CB	1:C:358:GLU:HG3	2.35	0.56
4:H:179:ASN:O	4:H:182:LEU:HG	2.05	0.56
4:H:212:ILE:HG12	4:H:221:LEU:HD21	1.87	0.56
5:I:92:LEU:HD23	5:I:92:LEU:C	2.30	0.56
7:L:91:GLU:OE2	7:L:108:LEU:HD13	2.04	0.56
8:M:161:TRP:HB3	8:M:181:MET:CE	2.36	0.56
8:M:229:LYS:O	8:M:233:GLU:HG2	2.04	0.56
9:V:110:HIS:CD2	9:V:136:GLU:HB2	2.40	0.56
10:W:132:THR:HG22	10:W:138:VAL:HG21	1.87	0.56
10:W:317:TRP:CZ3	10:W:355:LYS:HA	2.40	0.56
10:W:378:MET:SD	10:W:413:ILE:HD12	2.45	0.56
11:X:84:LYS:HA	11:X:87:ARG:HH12	1.70	0.56
12:Y:334:LEU:CD2	12:Y:343:LEU:HD23	2.35	0.56
14:a:211:PHE:CZ	14:a:319:LEU:HD21	2.40	0.56
14:a:315:LEU:HD12	14:a:315:LEU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:52:ILE:HG23	15:b:59:GLU:O	2.05	0.56
18:f:122:ALA:O	18:f:126:ILE:HG13	2.05	0.56
19:g:112:LEU:HD23	19:g:138:LEU:HD21	1.87	0.56
22:A:306:LEU:HD21	22:A:317:VAL:HG21	1.87	0.56
22:A:372:LEU:CD1	22:A:376:LEU:HD11	2.35	0.56
24:E:267:PHE:O	24:E:268:ASP:C	2.48	0.56
27:U:52:GLU:HA	27:U:57:ARG:HE	1.69	0.56
2:D:398:ASP:O	2:D:402:ALA:N	2.29	0.56
6:J:145:TYR:HE1	6:J:155:ALA:HB2	1.68	0.56
9:V:91:PRO:O	9:V:94:VAL:HG22	2.05	0.56
9:V:162:GLU:HG3	9:V:206:VAL:HG21	1.87	0.56
9:V:300:LEU:O	9:V:300:LEU:HD23	2.05	0.56
11:X:378:LEU:O	12:Y:311:TYR:HA	2.05	0.56
12:Y:52:PRO:HG2	12:Y:114:ILE:HD12	1.87	0.56
13:Z:224:HIS:HB2	14:a:218:MET:SD	2.45	0.56
17:d:116:LEU:HD23	17:d:147:ILE:HG23	1.86	0.56
18:f:437:GLU:O	18:f:440:ILE:HG23	2.05	0.56
18:f:498:LEU:HD22	18:f:534:VAL:CG2	2.35	0.56
18:f:677:HIS:CD2	23:B:79:ILE:HD11	2.40	0.56
18:f:803:PHE:CE1	18:f:810:ILE:HG13	2.39	0.56
23:B:81:ASN:O	23:B:85:MET:HB3	2.05	0.56
23:B:387:LYS:HA	23:B:387:LYS:CE	2.19	0.56
27:U:137:MET:HA	27:U:137:MET:HE2	1.86	0.56
27:U:213:PHE:HA	27:U:216:VAL:CG1	2.34	0.56
27:U:247:GLN:NE2	27:U:251:ASP:OD1	2.38	0.56
28:e:62:LYS:HA	28:e:65:TYR:CE2	2.40	0.56
1:C:55:LYS:HB3	1:C:55:LYS:HZ2	1.70	0.56
2:D:378:ILE:HD13	2:D:403:TYR:HD1	1.69	0.56
2:D:392:TYR:CZ	10:W:200:ILE:HG21	2.41	0.56
3:G:174:GLU:OE1	3:G:174:GLU:N	2.33	0.56
3:G:183:VAL:HG11	4:H:56:LEU:HD23	1.87	0.56
3:G:208:ILE:HD12	24:E:306:GLU:OE2	1.95	0.56
4:H:70:LYS:HG3	4:H:70:LYS:O	2.03	0.56
6:J:52:LYS:O	6:J:52:LYS:HG2	2.05	0.56
7:L:7:ASP:O	7:L:7:ASP:CG	2.48	0.56
7:L:59:HIS:HD2	7:L:208:LYS:O	1.88	0.56
7:L:137:TYR:HE1	7:L:141:GLY:HA2	1.70	0.56
7:L:189:LYS:HG2	7:L:236:LEU:CD1	2.35	0.56
8:M:52:LEU:CD1	8:M:206:ASP:HB3	2.35	0.56
9:V:121:PHE:CZ	9:V:164:GLU:HA	2.40	0.56
9:V:416:ARG:O	12:Y:350:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:72:LYS:HD2	10:W:76:GLU:OE2	2.04	0.56
10:W:83:LEU:O	10:W:87:ILE:HD12	2.05	0.56
10:W:112:VAL:CG1	10:W:121:LYS:HZ1	2.18	0.56
10:W:171:VAL:HG11	10:W:185:PHE:CB	2.35	0.56
10:W:377:ARG:NE	10:W:381:LEU:HD21	2.18	0.56
11:X:68:GLY:O	11:X:72:TYR:N	2.33	0.56
11:X:358:LYS:NZ	11:X:358:LYS:HB3	2.18	0.56
11:X:379:ASP:OD1	11:X:379:ASP:O	2.23	0.56
12:Y:26:LEU:HD13	12:Y:63:TRP:CZ2	2.40	0.56
12:Y:42:MET:HE2	12:Y:63:TRP:HZ3	1.70	0.56
12:Y:293:ARG:HG2	12:Y:293:ARG:HH11	1.70	0.56
13:Z:242:LEU:HD12	13:Z:243:GLN:N	2.21	0.56
14:a:19:PRO:HA	14:a:23:HIS:CD2	2.40	0.56
14:a:142:LEU:HD22	14:a:151:VAL:CG2	2.35	0.56
14:a:243:GLY:CA	14:a:272:ILE:HD11	2.35	0.56
14:a:312:MET:HE2	14:a:312:MET:CA	2.35	0.56
15:b:17:ARG:HG2	15:b:80:PRO:HG2	1.85	0.56
15:b:37:CYS:SG	15:b:72:LEU:HD21	2.45	0.56
15:b:112:PHE:CD1	15:b:141:ILE:HD11	2.40	0.56
16:c:114:SER:O	16:c:115:HIS:HD2	1.88	0.56
17:d:216:PRO:HG2	17:d:219:ASP:CG	2.31	0.56
17:d:280:GLU:HG2	17:d:281:LYS:N	2.20	0.56
18:f:214:VAL:HG13	18:f:251:CYS:SG	2.45	0.56
18:f:274:ASP:HB3	18:f:277:LEU:HD12	1.86	0.56
18:f:325:GLN:HE21	18:f:329:ASN:CG	2.13	0.56
18:f:498:LEU:HD21	18:f:525:ILE:CG2	2.35	0.56
18:f:564:LEU:CD2	18:f:794:ALA:HA	2.36	0.56
18:f:830:LEU:HB3	18:f:872:VAL:CB	2.35	0.56
18:f:831:VAL:HA	18:f:871:PRO:CA	2.35	0.56
19:g:128:LYS:HB3	19:g:158:LEU:HD13	1.87	0.56
19:g:166:ARG:O	19:g:170:GLN:HB2	2.06	0.56
22:A:170:PRO:HG2	22:A:230:ALA:HB3	1.87	0.56
22:A:195:LEU:HD22	22:A:314:ASN:HD21	1.69	0.56
24:E:56:ILE:HD11	24:E:102:MET:HA	1.85	0.56
25:F:90:VAL:O	25:F:90:VAL:HG13	2.05	0.56
25:F:314:LEU:C	25:F:347:ARG:HH12	2.13	0.56
25:F:391:PHE:CD1	25:F:395:GLN:HB3	2.40	0.56
26:K:173:ALA:HB1	26:K:205:VAL:HG21	1.87	0.56
27:U:164:GLU:OE2	27:U:203:LYS:HD3	2.05	0.56
27:U:357:LYS:HE2	27:U:385:PHE:CE2	2.40	0.56
27:U:516:LEU:HD23	27:U:532:MET:CG	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:557:TYR:HA	27:U:588:MET:O	2.05	0.56
27:U:636:VAL:HG13	27:U:637:VAL:HG23	1.87	0.56
27:U:872:GLU:HB2	27:U:873:PRO:HD2	1.87	0.56
3:G:101:TRP:HB3	3:G:109:ILE:HB	1.87	0.56
7:L:31:GLN:OE1	7:L:31:GLN:HA	2.04	0.56
7:L:146:GLN:O	7:L:153:TYR:HA	2.05	0.56
9:V:479:ARG:NH1	12:Y:370:ILE:HD13	2.14	0.56
10:W:55:ARG:NH1	10:W:93:ARG:HD3	2.21	0.56
10:W:112:VAL:O	10:W:121:LYS:NZ	2.36	0.56
10:W:363:ILE:CD1	10:W:378:MET:HE2	2.36	0.56
11:X:339:ILE:HD11	11:X:350:ILE:HD11	1.87	0.56
12:Y:173:ASP:N	12:Y:173:ASP:OD1	2.39	0.56
15:b:51:LEU:C	15:b:52:ILE:HD13	2.30	0.56
17:d:298:LYS:O	17:d:301:ASP:HB2	2.05	0.56
18:f:93:PRO:CB	18:f:96:LEU:HD12	2.34	0.56
18:f:141:LYS:HA	18:f:144:LEU:HB3	1.87	0.56
18:f:301:HIS:CD2	18:f:787:LEU:HD21	2.39	0.56
18:f:801:VAL:HA	18:f:804:LEU:CD1	2.35	0.56
18:f:855:GLN:OE1	18:f:859:PRO:HB3	2.05	0.56
19:g:122:LEU:CB	19:g:127:ILE:HD13	2.35	0.56
22:A:53:GLN:OE1	22:A:53:GLN:HA	2.06	0.56
22:A:121:PHE:CE2	22:A:147:TYR:HE2	2.23	0.56
23:B:222:VAL:HG23	23:B:224:LEU:CD1	2.35	0.56
25:F:368:ILE:HD12	25:F:368:ILE:H	1.69	0.56
27:U:159:ARG:HB3	27:U:162:VAL:HG12	1.86	0.56
1:C:36:ASN:ND2	9:V:89:LYS:HB3	2.20	0.56
1:C:277:LEU:HD23	1:C:310:ARG:CD	2.35	0.56
1:C:306:LEU:CB	23:B:429:LYS:HG3	2.36	0.56
2:D:274:ARG:HG3	2:D:318:ASP:OD2	2.04	0.56
4:H:19:LEU:HD11	5:I:79:ILE:HD11	1.87	0.56
4:H:116:SER:O	4:H:120:GLU:HG3	2.05	0.56
7:L:231:PRO:O	7:L:234:GLU:HG3	2.05	0.56
9:V:63:SER:O	9:V:67:LEU:N	2.29	0.56
9:V:224:LEU:HG	9:V:257:ASN:OD1	2.05	0.56
10:W:132:THR:HA	10:W:138:VAL:HG11	1.87	0.56
10:W:146:THR:O	10:W:149:LEU:HB3	2.05	0.56
13:Z:121:LEU:C	13:Z:121:LEU:HD12	2.30	0.56
14:a:83:VAL:C	14:a:87:MET:HG2	2.31	0.56
14:a:111:VAL:HG22	14:a:115:LYS:CG	2.36	0.56
14:a:118:ILE:HD11	14:a:122:LYS:HD2	1.87	0.56
14:a:205:LEU:HB3	14:a:268:LEU:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:287:ASN:OD1	14:a:288:HIS:N	2.38	0.56
14:a:321:LYS:HD2	14:a:336:VAL:CG1	2.35	0.56
15:b:20:ASP:OD1	15:b:21:PHE:N	2.38	0.56
17:d:216:PRO:HG2	17:d:219:ASP:OD2	2.05	0.56
18:f:399:LEU:HD11	18:f:432:TYR:CD2	2.41	0.56
23:B:112:LEU:HD22	23:B:144:LEU:HG	1.86	0.56
23:B:246:THR:HG23	23:B:280:SER:CB	2.34	0.56
24:E:111:LEU:HD13	25:F:97:LEU:HD12	1.87	0.56
25:F:93:VAL:HG22	25:F:124:ILE:HD11	1.87	0.56
26:K:37:ALA:CB	26:K:50:VAL:HG22	2.35	0.56
27:U:588:MET:HA	27:U:588:MET:HE3	1.87	0.56
27:U:791:LEU:HD12	27:U:796:LYS:O	2.06	0.56
2:D:242:GLU:OE1	2:D:245:ARG:NH2	2.38	0.56
2:D:268:ASP:OD2	2:D:313:ARG:HB2	2.06	0.56
2:D:368:ASP:OD2	2:D:403:TYR:OH	2.18	0.56
4:H:65:VAL:HG22	4:H:75:VAL:HG12	1.86	0.56
6:J:102:VAL:HG11	6:J:107:ILE:HD13	1.88	0.56
7:L:101:ARG:HG2	7:L:102:PRO:N	2.20	0.56
8:M:38:GLY:O	8:M:162:GLY:HA2	2.05	0.56
9:V:86:VAL:HG21	9:V:160:LEU:HD13	1.87	0.56
9:V:434:ALA:O	9:V:437:ILE:HG22	2.04	0.56
10:W:256:ILE:HD13	10:W:259:GLU:OE2	2.05	0.56
12:Y:45:VAL:HG13	12:Y:50:MET:HB2	1.88	0.56
12:Y:257:ARG:HH11	12:Y:257:ARG:HG2	1.70	0.56
17:d:162:PRO:HA	17:d:165:GLU:OE1	2.05	0.56
18:f:138:GLU:HG3	18:f:141:LYS:HE3	1.88	0.56
18:f:167:ALA:O	18:f:171:GLN:HG3	2.06	0.56
18:f:182:GLU:O	18:f:186:THR:HG23	2.06	0.56
18:f:256:PHE:CZ	18:f:264:GLU:HB3	2.40	0.56
18:f:380:PHE:CD1	18:f:771:LEU:HD21	2.41	0.56
19:g:112:LEU:HD13	19:g:142:LEU:CD1	2.35	0.56
22:A:54:GLN:HE22	22:A:58:LYS:HD2	1.71	0.56
23:B:209:GLU:O	23:B:213:GLU:HB3	2.06	0.56
23:B:429:LYS:HG2	23:B:429:LYS:O	2.04	0.56
25:F:81:LYS:HG3	25:F:82:VAL:N	2.20	0.56
26:K:70:ILE:HD11	26:K:89:ILE:HD13	1.88	0.56
27:U:221:ILE:HD11	27:U:256:ALA:HB2	1.87	0.56
27:U:520:MET:HE2	27:U:520:MET:HA	1.86	0.56
27:U:649:ARG:NH1	27:U:678:ASP:OD1	2.39	0.56
1:C:217:SER:HB3	2:D:287:ARG:HG2	1.87	0.56
1:C:358:GLU:HG2	2:D:324:PRO:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:245:ARG:HA	2:D:248:ARG:HH12	1.70	0.56
2:D:315:ASP:OD1	2:D:316:THR:N	2.38	0.56
8:M:190:VAL:HG11	8:M:227:VAL:HG21	1.87	0.56
9:V:153:LYS:O	9:V:157:THR:HG23	2.06	0.56
10:W:97:LEU:O	10:W:101:VAL:HG23	2.05	0.56
10:W:259:GLU:OE1	10:W:262:LYS:HE2	2.05	0.56
11:X:57:LEU:HD22	11:X:66:LEU:HD22	1.87	0.56
11:X:125:LEU:HD12	11:X:128:ALA:HB3	1.87	0.56
11:X:194:ARG:HG3	11:X:194:ARG:HH11	1.70	0.56
12:Y:34:ASP:OD2	12:Y:37:VAL:HG23	2.06	0.56
12:Y:45:VAL:HG13	12:Y:50:MET:CB	2.35	0.56
14:a:116:THR:HG21	14:a:154:ARG:HB2	1.87	0.56
17:d:97:GLN:O	17:d:101:GLU:HB2	2.06	0.56
17:d:119:LEU:HB3	17:d:147:ILE:HD13	1.87	0.56
18:f:140:LEU:HD13	18:f:169:GLU:HB2	1.88	0.56
18:f:217:LEU:HD21	18:f:229:VAL:HG21	1.88	0.56
18:f:460:ASP:HB3	19:g:133:LYS:CB	2.35	0.56
18:f:662:MET:HE1	18:f:780:PRO:CG	2.35	0.56
20:u:200:LEU:HD12	20:u:245:THR:HG21	1.87	0.56
22:A:186:LYS:HZ2	22:A:186:LYS:HB3	1.71	0.56
22:A:372:LEU:HD13	22:A:376:LEU:CD1	2.36	0.56
24:E:184:ALA:CB	24:E:276:ILE:HG21	2.36	0.56
25:F:425:LEU:HD13	25:F:432:LYS:HB2	1.88	0.56
27:U:27:LEU:C	27:U:31:VAL:HG23	2.31	0.56
27:U:247:GLN:HG3	27:U:904:LYS:HD2	1.88	0.56
27:U:401:LYS:NZ	27:U:435:SER:HG	2.02	0.56
27:U:560:MET:HG3	27:U:560:MET:O	2.06	0.56
27:U:906:LEU:HD13	27:U:912:ILE:HG12	1.86	0.56
1:C:50:ASN:ND2	27:U:639:LEU:HD11	2.20	0.56
1:C:351:MET:HG3	1:C:387:VAL:HG23	1.88	0.56
2:D:46:LYS:CE	27:U:187:LEU:HD11	2.35	0.56
7:L:38:LEU:CD2	7:L:45:VAL:HG13	2.36	0.56
7:L:155:ASP:HB2	8:M:62:SER:HB3	1.87	0.56
8:M:152:ASP:OD1	8:M:154:SER:OG	2.24	0.56
8:M:228:PRO:HG2	8:M:231:ILE:HD13	1.86	0.56
9:V:209:LYS:HE3	9:V:213:TYR:CZ	2.41	0.56
9:V:216:ARG:HA	9:V:219:GLU:CB	2.36	0.56
9:V:216:ARG:HA	9:V:219:GLU:HB2	1.88	0.56
9:V:468:SER:OG	13:Z:247:LYS:HB3	2.05	0.56
10:W:216:GLU:H	10:W:219:THR:HG21	1.70	0.56
11:X:193:ALA:HA	11:X:196:THR:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z:167:ALA:O	13:Z:170:VAL:HG12	2.05	0.56
13:Z:209:ARG:HB2	14:a:353:LEU:CD2	2.34	0.56
14:a:25:LEU:HD13	14:a:37:LEU:CD1	2.29	0.56
14:a:40:GLN:HA	14:a:43:ASP:HB3	1.88	0.56
14:a:89:ASP:CG	14:a:92:VAL:HG12	2.30	0.56
14:a:148:VAL:HG13	14:a:149:THR:H	1.71	0.56
14:a:364:GLU:HG2	14:a:368:GLU:OE2	2.05	0.56
18:f:326:LEU:C	18:f:326:LEU:HD23	2.31	0.56
18:f:389:LYS:O	18:f:390:LEU:HD22	2.06	0.56
18:f:442:SER:O	18:f:446:LEU:HG	2.06	0.56
18:f:662:MET:HE2	18:f:781:TYR:CE1	2.41	0.56
18:f:836:GLU:O	18:f:837:LEU:HB2	2.06	0.56
18:f:882:LEU:HG	18:f:882:LEU:O	2.04	0.56
19:g:112:LEU:HD11	19:g:116:ILE:HG13	1.88	0.56
24:E:173:TYR:OH	24:E:300:HIS:HB2	2.06	0.56
25:F:254:PRO:O	25:F:257:VAL:HG12	2.05	0.56
25:F:365:ILE:HG12	29:F:501:ATP:C6	2.40	0.56
26:K:50:VAL:HG11	26:K:66:LYS:HE2	1.87	0.56
26:K:202:LEU:HG	26:K:206:MET:HE2	1.87	0.56
27:U:245:ALA:O	27:U:325:MET:HE1	2.05	0.56
1:C:24:TYR:CE1	27:U:153:ILE:HG13	2.40	0.56
1:C:93:GLY:HA3	23:B:126:SER:CB	2.33	0.56
1:C:386:ALA:O	1:C:390:VAL:HG12	2.05	0.56
2:D:218:ALA:O	2:D:221:HIS:N	2.38	0.56
4:H:39:LYS:HG2	4:H:39:LYS:O	2.04	0.56
5:I:144:GLY:O	5:I:146:GLN:HG3	2.05	0.56
6:J:60:ARG:HG2	6:J:60:ARG:O	2.06	0.56
7:L:171:TYR:CD1	7:L:172:LEU:HD23	2.39	0.56
9:V:170:LEU:HD12	9:V:173:ILE:HD12	1.88	0.56
10:W:361:HIS:HA	10:W:364:ARG:NH2	2.19	0.56
11:X:194:ARG:HB2	11:X:194:ARG:CZ	2.35	0.56
11:X:332:GLU:HG2	11:X:368:MET:SD	2.46	0.56
11:X:390:GLU:O	11:X:390:GLU:HG2	2.05	0.56
12:Y:85:ASP:O	12:Y:89:GLU:HG2	2.06	0.56
14:a:148:VAL:HG13	14:a:149:THR:N	2.21	0.56
14:a:193:GLN:OE1	14:a:225:LEU:HD21	2.06	0.56
15:b:118:GLU:N	15:b:118:GLU:OE1	2.38	0.56
16:c:141:VAL:HG23	16:c:161:ARG:HH12	1.71	0.56
19:g:158:LEU:HD23	19:g:165:ALA:HB1	1.87	0.56
26:K:88:LEU:HD21	26:K:119:LEU:HB3	1.88	0.56
27:U:109:THR:O	27:U:113:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:348:THR:HG21	27:U:377:HIS:CD2	2.41	0.56
27:U:458:ILE:HD11	27:U:485:ALA:N	2.20	0.56
27:U:483:LEU:CD1	27:U:778:PHE:HE1	2.17	0.56
1:C:24:TYR:O	2:D:40:LEU:HD11	2.06	0.56
1:C:365:GLU:OE2	2:D:329:ARG:NH1	2.39	0.56
1:C:404:LEU:HD23	4:H:152:SER:HB2	1.87	0.56
2:D:204:MET:HB3	2:D:333:PHE:CE1	2.41	0.56
2:D:309:MET:HE3	2:D:327:LEU:CD2	2.33	0.56
2:D:354:LEU:HB3	2:D:358:VAL:CG1	2.37	0.56
3:G:13:ILE:HA	3:G:24:GLN:HB2	1.88	0.56
3:G:93:ARG:NH1	3:G:93:ARG:O	2.40	0.56
3:G:219:VAL:CG2	3:G:230:LEU:HD21	2.36	0.56
5:I:216:LEU:O	5:I:216:LEU:HD23	2.05	0.56
7:L:43:HIS:CD2	7:L:216:GLY:HA3	2.41	0.56
8:M:51:LYS:HE3	8:M:210:GLU:OE1	2.05	0.56
8:M:140:TYR:CB	8:M:217:GLY:HA2	2.36	0.56
9:V:168:GLN:HG2	9:V:187:ILE:HG23	1.87	0.56
11:X:264:PRO:O	11:X:267:VAL:HG12	2.05	0.56
12:Y:114:ILE:HD11	12:Y:116:ASP:CB	2.34	0.56
14:a:136:GLU:O	14:a:139:GLU:HG3	2.06	0.56
14:a:193:GLN:HB3	14:a:225:LEU:CD1	2.36	0.56
15:b:79:GLN:C	15:b:81:LYS:HE2	2.31	0.56
16:c:233:ASP:OD1	16:c:234:TYR:N	2.39	0.56
18:f:238:ASN:HB3	18:f:664:GLU:OE2	2.06	0.56
18:f:478:ARG:NH1	18:f:510:SER:HG	2.02	0.56
18:f:669:GLU:CD	23:B:50:PRO:HG3	2.31	0.56
18:f:759:LEU:HD12	18:f:759:LEU:O	2.06	0.56
19:g:98:LYS:HE2	19:g:100:LEU:HD11	1.88	0.56
25:F:195:ILE:O	25:F:199:VAL:HG23	2.06	0.56
25:F:236:LEU:C	25:F:236:LEU:HD23	2.31	0.56
25:F:291:ILE:HG21	25:F:309:THR:HG21	1.86	0.56
25:F:436:GLN:HE22	26:K:28:ILE:CD1	2.19	0.56
26:K:52:LYS:HB2	26:K:214:ASN:O	2.06	0.56
26:K:121:LEU:HD21	26:K:160:GLY:HA3	1.87	0.56
26:K:205:VAL:HG22	26:K:205:VAL:O	2.05	0.56
27:U:85:GLY:N	27:U:88:PHE:HB3	2.20	0.56
27:U:357:LYS:NZ	27:U:389:ASN:HD22	2.04	0.56
27:U:638:SER:CA	27:U:671:LEU:HD11	2.33	0.56
27:U:879:ASP:C	27:U:881:PRO:HD2	2.31	0.56
1:C:114:VAL:HG21	1:C:123:LEU:HD11	1.88	0.55
1:C:338:LEU:HD22	1:C:342:ILE:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:351:MET:HE3	1:C:354:ALA:CB	2.36	0.55
2:D:329:ARG:HH11	2:D:329:ARG:HG3	1.71	0.55
2:D:378:ILE:HA	2:D:406:VAL:HG21	1.88	0.55
4:H:36:VAL:HG22	4:H:47:ALA:HB3	1.88	0.55
6:J:183:THR:CB	6:J:186:LEU:HD22	2.36	0.55
9:V:139:MET:H	9:V:139:MET:CE	2.19	0.55
9:V:165:ALA:O	9:V:169:LEU:N	2.23	0.55
9:V:218:TYR:HA	9:V:221:LEU:HB2	1.87	0.55
10:W:187:LEU:CD1	10:W:229:LEU:HD12	2.36	0.55
10:W:309:PHE:HE1	10:W:315:MET:HE1	1.64	0.55
10:W:373:ILE:CG2	10:W:415:PHE:HE1	2.18	0.55
11:X:54:GLY:HA2	11:X:66:LEU:CD1	2.35	0.55
12:Y:148:GLY:HA3	12:Y:157:ILE:HG13	1.88	0.55
14:a:148:VAL:HG22	14:a:150:SER:H	1.71	0.55
15:b:24:THR:HG22	15:b:26:LEU:N	2.21	0.55
15:b:180:ALA:HA	15:b:183:LEU:HD13	1.88	0.55
18:f:427:THR:HG23	19:g:156:LEU:CD1	2.36	0.55
18:f:704:LEU:HD11	18:f:740:ARG:CD	2.36	0.55
22:A:352:THR:HG22	22:A:374:ALA:CB	2.35	0.55
23:B:246:THR:HG23	23:B:280:SER:HB2	1.88	0.55
23:B:334:ILE:O	23:B:334:ILE:HG12	2.05	0.55
24:E:145:LEU:CG	24:E:149:ILE:HD12	2.35	0.55
27:U:248:ILE:O	27:U:252:LEU:HB2	2.07	0.55
27:U:356:THR:CG2	27:U:731:ILE:HD12	2.36	0.55
27:U:435:SER:HB3	27:U:438:GLN:HB3	1.87	0.55
27:U:491:GLN:OE1	27:U:491:GLN:HA	2.05	0.55
27:U:641:SER:HB2	27:U:675:MET:CE	2.33	0.55
1:C:271:ARG:NH2	23:B:305:ILE:HD13	2.20	0.55
2:D:60:TYR:CD1	27:U:607:VAL:HG21	2.42	0.55
2:D:273:LYS:HZ3	2:D:319:PRO:CD	2.19	0.55
5:I:33:THR:HG23	5:I:163:CYS:SG	2.46	0.55
7:L:46:LEU:HD11	7:L:63:ILE:HG12	1.88	0.55
7:L:84:LEU:HD12	7:L:130:VAL:CG1	2.36	0.55
10:W:75:TYR:O	10:W:78:LYS:NZ	2.31	0.55
11:X:57:LEU:HD21	11:X:62:GLN:C	2.31	0.55
11:X:89:VAL:HG11	11:X:125:LEU:HD11	1.88	0.55
11:X:226:LYS:HG3	11:X:261:LEU:HD11	1.87	0.55
11:X:271:VAL:HG11	11:X:288:LYS:HD3	1.88	0.55
11:X:385:LEU:HD21	11:X:387:ILE:HD11	1.86	0.55
13:Z:7:GLN:CG	13:Z:47:VAL:HG12	2.36	0.55
13:Z:34:ARG:HD2	13:Z:102:HIS:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z:34:ARG:HH21	13:Z:96:HIS:CG	2.23	0.55
15:b:80:PRO:N	15:b:81:LYS:HE2	2.21	0.55
17:d:330:ILE:HD12	17:d:330:ILE:H	1.70	0.55
18:f:136:GLU:OE2	18:f:137:ARG:NH2	2.38	0.55
18:f:217:LEU:CD2	18:f:229:VAL:HG21	2.36	0.55
18:f:305:LEU:O	18:f:321:MET:HE1	2.06	0.55
18:f:326:LEU:HA	18:f:329:ASN:HD22	1.71	0.55
18:f:886:GLU:HB3	18:f:887:PHE:CD1	2.41	0.55
19:g:164:ASP:HA	19:g:167:LYS:HB2	1.89	0.55
22:A:278:ASP:HB2	23:B:310:LEU:HD21	1.88	0.55
24:E:133:SER:O	24:E:315:ILE:HD13	2.05	0.55
25:F:134:LEU:CD1	25:F:159:LEU:HA	2.27	0.55
26:K:39:GLY:N	26:K:168:ARG:O	2.39	0.55
27:U:527:GLN:O	27:U:531:ASP:HB2	2.04	0.55
27:U:602:LEU:HD11	27:U:621:SER:HB3	1.88	0.55
27:U:625:ILE:HG13	27:U:626:LEU:HD23	1.86	0.55
1:C:84:LYS:HD3	1:C:96:VAL:CG1	2.35	0.55
1:C:214:VAL:HG21	1:C:234:LEU:CD2	2.35	0.55
2:D:85:ILE:CD1	24:E:68:LYS:HG2	2.36	0.55
3:G:153:LYS:HD3	3:G:166:THR:OG1	2.06	0.55
5:I:124:PHE:HE1	6:J:118:TYR:HE1	1.54	0.55
5:I:174:MET:CE	5:I:196:VAL:HA	2.35	0.55
7:L:214:ILE:HD13	7:L:232:PHE:CZ	2.41	0.55
11:X:72:TYR:O	11:X:75:PRO:HD2	2.07	0.55
11:X:173:GLU:HA	11:X:176:THR:CG2	2.36	0.55
11:X:384:VAL:CG2	11:X:386:ILE:HD11	2.37	0.55
12:Y:90:ASP:OD1	12:Y:94:ASN:ND2	2.37	0.55
12:Y:220:VAL:HG21	12:Y:249:VAL:HG11	1.88	0.55
13:Z:17:LEU:HD21	16:c:35:SER:C	2.31	0.55
13:Z:48:LEU:HD23	13:Z:120:VAL:HG11	1.89	0.55
15:b:4:GLU:OE2	15:b:40:LYS:HE2	2.05	0.55
15:b:16:MET:O	15:b:26:LEU:HD12	2.06	0.55
15:b:22:LEU:HB2	15:b:23:PRO:CD	2.35	0.55
15:b:26:LEU:HD11	15:b:80:PRO:CB	2.35	0.55
15:b:53:THR:CG2	15:b:61:LEU:HD11	2.36	0.55
16:c:115:HIS:O	16:c:117:GLY:N	2.39	0.55
18:f:93:PRO:O	18:f:96:LEU:N	2.39	0.55
18:f:512:MET:HG2	18:f:552:ASP:OD2	2.06	0.55
18:f:785:ARG:NH2	18:f:876:HIS:HA	2.20	0.55
23:B:186:ASP:C	23:B:367:ILE:HD13	2.32	0.55
27:U:756:HIS:ND1	27:U:759:SER:HB2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:793:LYS:NZ	27:U:916:ASP:OD2	2.35	0.55
27:U:845:GLU:HG2	27:U:848:LYS:NZ	2.22	0.55
27:U:879:ASP:HB3	27:U:881:PRO:CD	2.23	0.55
3:G:101:TRP:CB	3:G:109:ILE:HB	2.37	0.55
3:G:138:MET:O	3:G:153:LYS:HA	2.06	0.55
5:I:176:LYS:O	5:I:179:TYR:HB3	2.07	0.55
7:L:233:LEU:O	7:L:236:LEU:HB2	2.05	0.55
8:M:122:TYR:CG	8:M:131:PHE:HE1	2.23	0.55
9:V:470:ARG:NH1	9:V:474:LEU:HD13	2.21	0.55
12:Y:121:LEU:HD11	12:Y:156:LEU:CD2	2.37	0.55
12:Y:273:GLN:OE1	12:Y:273:GLN:HA	2.05	0.55
13:Z:9:VAL:O	13:Z:9:VAL:HG12	2.05	0.55
13:Z:109:ASN:ND2	13:Z:140:SER:HB2	2.22	0.55
13:Z:121:LEU:HD23	13:Z:155:PHE:CE2	2.41	0.55
14:a:142:LEU:HD21	14:a:152:HIS:NE2	2.22	0.55
15:b:171:VAL:HG21	15:b:187:PRO:CG	2.26	0.55
16:c:121:TRP:HZ3	16:c:123:SER:HG	1.54	0.55
18:f:300:ARG:HA	18:f:300:ARG:HE	1.72	0.55
18:f:523:GLY:O	18:f:527:VAL:HG13	2.06	0.55
18:f:539:LEU:O	18:f:542:ILE:HG12	2.06	0.55
18:f:794:ALA:O	18:f:798:THR:HG23	2.07	0.55
18:f:857:GLY:C	18:f:859:PRO:HD3	2.31	0.55
24:E:134:GLU:HA	24:E:315:ILE:HG21	1.88	0.55
25:F:175:MET:SD	25:F:251:LEU:HA	2.47	0.55
25:F:246:ALA:HB1	25:F:281:SER:HA	1.88	0.55
25:F:284:PHE:CE2	25:F:286:ASP:HB2	2.41	0.55
3:G:32:ILE:HD11	3:G:156:PRO:CG	2.37	0.55
5:I:180:LYS:HD2	5:I:184:MET:HA	1.89	0.55
6:J:43:LEU:HD13	6:J:134:VAL:CG1	2.37	0.55
7:L:121:GLN:HG3	8:M:129:ARG:CZ	2.36	0.55
8:M:187:ARG:HG2	8:M:219:LEU:CD1	2.37	0.55
9:V:71:THR:HA	9:V:74:ASP:HB2	1.88	0.55
9:V:214:HIS:CD2	9:V:230:PHE:HE2	2.25	0.55
10:W:205:ILE:O	10:W:209:ILE:HG22	2.07	0.55
11:X:74:ARG:HB2	11:X:75:PRO:HD3	1.87	0.55
12:Y:145:LEU:HD23	12:Y:160:ASN:HB2	1.88	0.55
12:Y:280:GLN:OE1	12:Y:280:GLN:HA	2.06	0.55
13:Z:129:LYS:HD3	16:c:212:LEU:HA	1.88	0.55
14:a:58:LYS:HB2	14:a:58:LYS:HZ3	1.71	0.55
14:a:312:MET:HE1	14:a:324:ILE:HD13	1.87	0.55
15:b:16:MET:HA	15:b:25:ARG:NE	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:250:ARG:HH11	18:f:272:LEU:HD11	1.72	0.55
24:E:135:ILE:HG12	24:E:182:LEU:HG	1.87	0.55
27:U:368:ALA:HA	27:U:371:ILE:HG22	1.88	0.55
27:U:368:ALA:O	27:U:372:ALA:N	2.34	0.55
27:U:912:ILE:C	27:U:912:ILE:HD12	2.32	0.55
2:D:391:ARG:NH1	2:D:397:LYS:HD2	2.21	0.55
3:G:202:LEU:HG	3:G:210:PHE:CZ	2.34	0.55
7:L:143:HIS:HB3	7:L:145:PHE:CE1	2.42	0.55
8:M:195:LYS:HG3	8:M:196:ILE:N	2.22	0.55
9:V:333:ILE:HD13	9:V:348:PHE:CZ	2.41	0.55
10:W:276:LEU:HD23	10:W:354:LEU:HD13	1.88	0.55
10:W:375:MET:SD	10:W:413:ILE:HD11	2.47	0.55
11:X:103:THR:OG1	11:X:105:GLN:HG2	2.07	0.55
11:X:407:MET:HA	11:X:410:VAL:CG1	2.33	0.55
13:Z:34:ARG:HB2	13:Z:96:HIS:HB2	1.87	0.55
13:Z:201:LEU:HB2	16:c:225:TRP:HZ3	1.72	0.55
14:a:176:ALA:HB3	14:a:200:LEU:CD1	2.33	0.55
14:a:342:ASP:HB3	14:a:345:GLN:CG	2.36	0.55
15:b:109:ILE:CG2	15:b:138:VAL:HG23	2.37	0.55
16:c:69:VAL:HG12	16:c:109:VAL:HG11	1.87	0.55
16:c:211:GLU:OE1	27:U:574:LYS:NZ	2.40	0.55
17:d:304:LYS:HZ2	17:d:304:LYS:HB2	1.71	0.55
18:f:430:ASP:O	19:g:171:LEU:HB2	2.07	0.55
18:f:433:LEU:HG	19:g:173:GLU:CA	2.37	0.55
19:g:101:LEU:HD21	19:g:116:ILE:O	2.07	0.55
20:u:168:THR:OG1	20:u:245:THR:HG22	2.06	0.55
22:A:101:ILE:HD11	22:A:111:TYR:CE2	2.41	0.55
22:A:415:LYS:O	22:A:419:SER:HB3	2.06	0.55
24:E:280:ASN:OD1	24:E:280:ASN:O	2.24	0.55
27:U:535:TYR:CE1	27:U:539:THR:HB	2.42	0.55
1:C:355:SER:HB3	1:C:358:GLU:HG3	1.87	0.55
2:D:414:HIS:HB3	2:D:416:PHE:CD1	2.41	0.55
7:L:40:SER:HB3	7:L:187:LEU:HD13	1.88	0.55
8:M:164:ALA:O	8:M:165:ILE:HD13	2.06	0.55
8:M:169:ARG:O	8:M:173:LYS:HG3	2.07	0.55
8:M:216:VAL:HG12	8:M:224:HIS:HA	1.88	0.55
10:W:268:LYS:HG2	10:W:302:TYR:CE2	2.42	0.55
10:W:451:MET:SD	13:Z:100:LYS:HA	2.46	0.55
12:Y:224:VAL:HG11	12:Y:256:VAL:HG13	1.88	0.55
12:Y:244:ALA:HB3	12:Y:245:GLU:OE1	2.05	0.55
13:Z:144:VAL:HG21	14:a:178:ARG:CD	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:210:VAL:O	14:a:210:VAL:HG23	2.06	0.55
16:c:118:PHE:HB3	16:c:121:TRP:CZ2	2.42	0.55
17:d:94:MET:O	17:d:98:LEU:N	2.21	0.55
17:d:109:LEU:HD13	17:d:158:ARG:HG3	1.88	0.55
18:f:47:GLU:O	18:f:51:GLN:HB2	2.06	0.55
18:f:63:LEU:HB2	18:f:105:LYS:NZ	2.22	0.55
18:f:567:LEU:HB2	18:f:790:GLN:HE22	1.68	0.55
18:f:662:MET:HE1	18:f:780:PRO:HG3	1.89	0.55
18:f:846:VAL:HG22	18:f:880:ALA:CA	2.36	0.55
19:g:128:LYS:HZ3	19:g:129:ILE:C	2.15	0.55
19:g:130:VAL:CG2	19:g:154:MET:HB3	2.37	0.55
22:A:87:LEU:CD1	23:B:156:VAL:HB	2.36	0.55
22:A:195:LEU:HD11	22:A:316:LYS:CG	2.36	0.55
22:A:213:LEU:O	22:A:213:LEU:HG	2.06	0.55
22:A:292:ASP:HB2	23:B:300:GLY:HA3	1.87	0.55
25:F:94:ILE:CG1	25:F:125:LYS:HB2	2.36	0.55
25:F:226:TYR:CE1	25:F:353:GLU:HA	2.42	0.55
25:F:385:ALA:HA	25:F:388:THR:OG1	2.07	0.55
27:U:675:MET:O	27:U:678:ASP:HB2	2.06	0.55
2:D:64:GLU:HG3	27:U:607:VAL:HG13	1.88	0.55
2:D:204:MET:HE1	2:D:216:ALA:HB2	1.88	0.55
3:G:66:VAL:O	3:G:66:VAL:HG12	2.06	0.55
5:I:224:VAL:HG22	5:I:226:ARG:HG2	1.89	0.55
7:L:154:PHE:CB	8:M:58:TYR:HD2	2.20	0.55
8:M:50:GLU:OE1	8:M:201:HIS:HB2	2.06	0.55
8:M:215:TRP:CZ3	8:M:219:LEU:HD23	2.42	0.55
9:V:353:LEU:HB3	9:V:357:LEU:HD12	1.88	0.55
10:W:276:LEU:O	10:W:357:ARG:HG3	2.06	0.55
13:Z:81:MET:HE1	16:c:95:MET:N	2.21	0.55
13:Z:242:LEU:HD12	13:Z:243:GLN:H	1.72	0.55
16:c:27:THR:HG23	16:c:175:ARG:CB	2.37	0.55
16:c:75:MET:HE1	16:c:88:ASP:H	1.71	0.55
18:f:114:ALA:HB3	18:f:118:ASN:CB	2.35	0.55
18:f:132:THR:HG21	22:A:32:LEU:HD21	1.89	0.55
18:f:266:LEU:HD22	18:f:294:MET:CB	2.33	0.55
18:f:830:LEU:HD23	18:f:872:VAL:HB	1.88	0.55
18:f:885:GLU:HG3	18:f:906:TYR:CD2	2.41	0.55
23:B:248:LEU:HD13	23:B:274:ALA:HB2	1.88	0.55
23:B:383:LEU:HB3	23:B:423:LYS:HE3	1.88	0.55
24:E:233:ASP:O	24:E:234:GLU:C	2.49	0.55
25:F:192:ASP:O	25:F:195:ILE:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:171:GLY:O	26:K:174:SER:OG	2.18	0.55
27:U:39:SER:O	27:U:42:VAL:HG13	2.06	0.55
27:U:356:THR:HG23	27:U:731:ILE:HD12	1.89	0.55
27:U:545:LEU:CB	27:U:577:ILE:HG21	2.37	0.55
27:U:740:GLY:HA3	27:U:744:VAL:HG22	1.88	0.55
1:C:79:ALA:HB1	22:A:65:ILE:HD13	1.88	0.55
1:C:135:VAL:O	1:C:135:VAL:HG22	2.07	0.55
3:G:196:GLU:CA	3:G:242:LEU:HD21	2.37	0.55
7:L:38:LEU:HD21	7:L:45:VAL:HG13	1.88	0.55
8:M:98:PHE:CD1	8:M:106:ILE:HB	2.42	0.55
9:V:131:LEU:HD12	9:V:171:VAL:HG21	1.87	0.55
9:V:134:PHE:CG	9:V:183:GLU:HB3	2.42	0.55
9:V:192:MET:HA	9:V:195:ILE:CG1	2.32	0.55
10:W:267:LEU:O	10:W:270:VAL:HG12	2.07	0.55
11:X:363:ARG:O	11:X:366:SER:N	2.40	0.55
14:a:131:THR:O	14:a:134:THR:OG1	2.11	0.55
17:d:194:LEU:O	17:d:197:LEU:N	2.40	0.55
18:f:395:GLY:HA3	18:f:432:TYR:CE2	2.42	0.55
18:f:733:GLY:HA3	18:f:741:LEU:CD2	2.33	0.55
18:f:833:PHE:CD1	18:f:839:PRO:HA	2.41	0.55
19:g:170:GLN:HA	19:g:173:GLU:CA	2.36	0.55
23:B:232:LYS:HZ3	23:B:232:LYS:HB2	1.71	0.55
24:E:235:ILE:HD12	24:E:277:MET:C	2.32	0.55
25:F:228:PRO:HG3	25:F:356:MET:HG3	1.87	0.55
25:F:232:GLY:HA2	29:F:501:ATP:O1A	2.06	0.55
26:K:9:ASP:HB3	26:K:22:PHE:HB3	1.89	0.55
27:U:338:HIS:O	27:U:342:LEU:HD23	2.06	0.55
27:U:368:ALA:HA	27:U:371:ILE:CG2	2.37	0.55
1:C:31:LEU:O	1:C:34:ILE:HG22	2.06	0.55
2:D:173:GLN:OE1	2:D:173:GLN:N	2.37	0.55
8:M:197:ILE:HD13	8:M:211:LEU:HD13	1.88	0.55
9:V:67:LEU:C	9:V:70:VAL:HG12	2.32	0.55
9:V:192:MET:HE3	9:V:214:HIS:CG	2.42	0.55
10:W:171:VAL:O	10:W:182:ARG:HD3	2.07	0.55
11:X:252:LYS:HD2	11:X:283:GLN:HB3	1.89	0.55
11:X:397:TYR:CE2	13:Z:258:VAL:HG11	2.42	0.55
12:Y:70:LEU:HD12	12:Y:74:LYS:HG3	1.88	0.55
14:a:58:LYS:HG3	14:a:83:VAL:HG11	1.88	0.55
15:b:6:THR:O	15:b:49:VAL:HA	2.06	0.55
17:d:98:LEU:CD2	17:d:150:ILE:HG21	2.28	0.55
18:f:124:ASP:OD2	18:f:147:SER:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:267:ARG:NH2	18:f:297:MET:HE3	2.22	0.55
18:f:411:ALA:HA	18:f:414:LEU:HD12	1.89	0.55
18:f:433:LEU:HD22	18:f:444:ALA:HB3	1.88	0.55
19:g:113:ARG:HE	19:g:138:LEU:CD1	2.20	0.55
22:A:95:VAL:HG22	22:A:153:LEU:HD22	1.88	0.55
22:A:102:ILE:HD12	25:F:165:PRO:HG2	1.88	0.55
23:B:153:ASN:OD1	23:B:154:HIS:N	2.40	0.55
23:B:203:LEU:N	23:B:204:PRO:HD2	2.22	0.55
24:E:147:GLU:CA	24:E:151:LEU:HD13	2.32	0.55
25:F:202:ILE:HG22	25:F:203:VAL:H	1.72	0.55
26:K:24:VAL:HG11	26:K:159:SER:HA	1.89	0.55
27:U:364:VAL:HG12	27:U:724:VAL:CG1	2.32	0.55
27:U:631:GLU:O	27:U:634:PRO:HD2	2.07	0.55
27:U:919:GLU:HG3	27:U:920:ASP:H	1.72	0.55
1:C:148:TYR:HE1	1:C:158:ILE:HG23	1.72	0.54
3:G:73:THR:HG22	3:G:74:GLU:N	2.22	0.54
6:J:133:ILE:O	6:J:145:TYR:N	2.27	0.54
9:V:101:LEU:HD13	9:V:166:TYR:CE1	2.42	0.54
9:V:169:LEU:O	9:V:173:ILE:HG13	2.07	0.54
9:V:412:LEU:HD22	12:Y:339:ALA:HA	1.88	0.54
10:W:34:LEU:HD12	10:W:43:VAL:CG2	2.37	0.54
10:W:60:MET:H	10:W:60:MET:CE	2.12	0.54
10:W:117:ASP:HB3	10:W:120:ILE:HB	1.89	0.54
10:W:170:GLN:O	10:W:173:THR:OG1	2.23	0.54
10:W:172:GLU:CG	10:W:208:LYS:HD2	2.37	0.54
10:W:365:ILE:HD13	10:W:368:LYS:HE3	1.89	0.54
13:Z:79:TYR:CE2	13:Z:83:LYS:HE3	2.42	0.54
13:Z:246:VAL:HG22	17:d:330:ILE:CD1	2.37	0.54
14:a:62:ASN:O	14:a:66:GLU:HG3	2.07	0.54
14:a:185:ILE:CG2	14:a:187:ASP:HB3	2.37	0.54
14:a:321:LYS:CD	14:a:336:VAL:HG11	2.35	0.54
15:b:44:ASN:OD1	15:b:45:PRO:HD2	2.06	0.54
18:f:233:LEU:O	18:f:237:VAL:HG13	2.07	0.54
19:g:108:THR:O	19:g:112:LEU:N	2.40	0.54
20:u:229:GLY:O	20:u:230:ILE:HD13	2.07	0.54
22:A:190:VAL:HG22	22:A:209:PRO:HB2	1.88	0.54
23:B:286:GLU:HA	23:B:286:GLU:OE2	2.06	0.54
24:E:236:ASP:N	24:E:236:ASP:OD1	2.39	0.54
25:F:247:THR:HB	25:F:281:SER:HB3	1.89	0.54
26:K:70:ILE:HD12	26:K:92:ALA:CB	2.38	0.54
27:U:813:TYR:HE1	27:U:883:ARG:HD2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:35:VAL:CG1	2:D:51:LEU:HB2	2.34	0.54
2:D:184:PRO:HG3	2:D:191:TYR:CE2	2.42	0.54
4:H:203:MET:SD	4:H:208:ILE:HG13	2.47	0.54
5:I:97:TYR:CZ	5:I:106:PRO:HD3	2.42	0.54
6:J:85:ASN:C	6:J:85:ASN:OD1	2.50	0.54
6:J:212:ARG:O	6:J:215:GLN:HB2	2.08	0.54
7:L:68:ASN:HB3	7:L:220:GLU:HG2	1.88	0.54
9:V:198:GLN:HB2	9:V:203:LEU:CD2	2.38	0.54
10:W:124:LEU:HD12	10:W:124:LEU:O	2.07	0.54
11:X:69:LEU:O	11:X:73:VAL:HG22	2.07	0.54
12:Y:297:ARG:HB3	12:Y:297:ARG:HH11	1.71	0.54
13:Z:165:GLU:HG2	13:Z:166:GLU:H	1.72	0.54
13:Z:169:GLU:HA	13:Z:169:GLU:OE2	2.07	0.54
15:b:35:ILE:O	15:b:39:SER:N	2.37	0.54
15:b:183:LEU:O	15:b:187:PRO:HD2	2.07	0.54
16:c:150:SER:HB3	16:c:156:VAL:HG22	1.88	0.54
22:A:377:CYS:SG	22:A:417:ILE:HG13	2.46	0.54
23:B:225:TYR:OH	23:B:352:GLU:HB2	2.07	0.54
27:U:96:TYR:CE1	27:U:100:ILE:HG13	2.42	0.54
27:U:108:TYR:CB	27:U:134:VAL:HG21	2.37	0.54
27:U:344:ARG:HE	27:U:927:PRO:HG2	1.72	0.54
27:U:662:GLY:O	27:U:698:GLN:NE2	2.40	0.54
2:D:218:ALA:C	2:D:220:ALA:N	2.64	0.54
3:G:62:ASP:OD2	8:M:40:ARG:NH1	2.40	0.54
3:G:132:ARG:HG3	8:M:12:SER:O	2.07	0.54
5:I:197:LEU:CB	5:I:206:LEU:HD11	2.37	0.54
7:L:209:ASN:OD1	7:L:210:VAL:HG23	2.07	0.54
8:M:164:ALA:CB	8:M:172:ALA:HB3	2.37	0.54
9:V:375:PHE:HE2	9:V:398:LEU:HD23	1.70	0.54
10:W:24:VAL:HG13	10:W:65:ARG:NH2	2.22	0.54
10:W:61:VAL:HG23	10:W:62:SER:H	1.71	0.54
10:W:187:LEU:HD12	10:W:225:LYS:HG2	1.88	0.54
10:W:265:GLN:OE1	10:W:268:LYS:HD2	2.06	0.54
12:Y:28:LEU:HD22	12:Y:29:PRO:HD2	1.89	0.54
13:Z:121:LEU:HD11	13:Z:123:ILE:HG13	1.88	0.54
14:a:8:LEU:HD12	14:a:9:GLN:OE1	2.08	0.54
14:a:65:SER:HA	14:a:68:GLU:CG	2.37	0.54
14:a:112:ILE:HA	14:a:115:LYS:HB2	1.87	0.54
17:d:94:MET:HB2	17:d:119:LEU:CD2	2.35	0.54
19:g:87:VAL:C	19:g:88:PHE:HD1	2.15	0.54
19:g:141:THR:HG22	19:g:144:GLU:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:g:156:LEU:C	19:g:158:LEU:HD12	2.32	0.54
22:A:190:VAL:HG11	22:A:212:VAL:HG13	1.89	0.54
22:A:402:LYS:O	23:B:214:MET:HE1	2.08	0.54
26:K:77:ALA:HB3	26:K:142:LEU:HB2	1.89	0.54
26:K:199:LEU:CD1	26:K:210:LEU:HD21	2.37	0.54
27:U:497:LEU:HD13	27:U:515:ALA:CB	2.37	0.54
27:U:532:MET:SD	27:U:552:ILE:HG22	2.47	0.54
1:C:21:ARG:CA	27:U:149:GLN:HE22	2.20	0.54
3:G:219:VAL:HG21	3:G:230:LEU:HD21	1.89	0.54
4:H:74:LEU:HB3	4:H:134:LEU:HD22	1.88	0.54
5:I:197:LEU:HA	5:I:200:THR:OG1	2.07	0.54
9:V:180:ARG:HG2	9:V:183:GLU:CD	2.31	0.54
9:V:196:SER:HB3	9:V:234:ARG:HH22	1.72	0.54
9:V:348:PHE:HE2	9:V:361:PHE:HA	1.73	0.54
11:X:69:LEU:O	11:X:73:VAL:N	2.30	0.54
12:Y:194:PHE:CD2	12:Y:229:ILE:HD13	2.42	0.54
12:Y:387:ILE:CG1	13:Z:276:ILE:HG12	2.32	0.54
14:a:92:VAL:HA	14:a:95:THR:OG1	2.08	0.54
15:b:85:THR:O	15:b:85:THR:CG2	2.56	0.54
15:b:141:ILE:HG13	15:b:143:PHE:CZ	2.42	0.54
19:g:102:GLU:O	19:g:119:THR:HG21	2.08	0.54
19:g:105:LEU:HB2	19:g:149:HIS:CE1	2.42	0.54
20:u:127:MET:HA	20:u:130:ILE:HD12	1.89	0.54
20:u:204:MET:HE3	20:u:208:GLU:HG2	1.90	0.54
22:A:195:LEU:CD2	22:A:314:ASN:HD21	2.21	0.54
22:A:249:TYR:HB2	22:A:252:GLU:OE1	2.07	0.54
25:F:198:LEU:CD2	25:F:202:ILE:HB	2.38	0.54
26:K:157:ASP:OD1	26:K:161:THR:HG22	2.08	0.54
27:U:345:ASN:HD21	27:U:883:ARG:HG2	1.72	0.54
27:U:361:ARG:NH1	27:U:720:LYS:HE3	2.21	0.54
27:U:364:VAL:O	27:U:367:THR:HG22	2.07	0.54
1:C:339:THR:HG21	1:C:379:THR:HG22	1.88	0.54
1:C:368:MET:SD	2:D:196:ILE:HD11	2.47	0.54
4:H:139:TRP:CZ3	4:H:144:PRO:HD3	2.34	0.54
5:I:45:LEU:HD22	5:I:65:ILE:HD12	1.89	0.54
6:J:208:LEU:O	6:J:220:LEU:HG	2.07	0.54
8:M:73:VAL:HG21	8:M:111:LEU:HD23	1.89	0.54
8:M:152:ASP:OD1	8:M:152:ASP:C	2.50	0.54
9:V:109:ASN:H	9:V:112:VAL:CG2	2.20	0.54
9:V:175:MET:O	9:V:179:LYS:N	2.40	0.54
9:V:486:ILE:HD13	9:V:489:MET:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:263:TRP:CE3	10:W:295:LYS:HD3	2.42	0.54
10:W:334:GLU:OE1	10:W:334:GLU:N	2.40	0.54
10:W:420:ASP:OD1	10:W:420:ASP:N	2.34	0.54
11:X:125:LEU:O	11:X:129:LEU:HD22	2.07	0.54
11:X:141:LYS:HA	11:X:143:TYR:CE1	2.42	0.54
12:Y:36:ALA:HA	12:Y:39:ASP:OD2	2.07	0.54
13:Z:173:GLU:OE2	13:Z:180:LYS:HE2	2.07	0.54
14:a:68:GLU:CG	14:a:69:HIS:H	2.20	0.54
14:a:250:THR:O	14:a:254:ALA:HB2	2.07	0.54
15:b:143:PHE:CE1	15:b:183:LEU:HD21	2.43	0.54
17:d:228:HIS:O	17:d:232:LEU:HB2	2.08	0.54
18:f:63:LEU:HB2	18:f:105:LYS:HZ2	1.72	0.54
18:f:141:LYS:NZ	18:f:142:TYR:HE1	2.06	0.54
18:f:460:ASP:CB	19:g:133:LYS:HD2	2.37	0.54
18:f:474:SER:CB	18:f:477:MET:HG2	2.21	0.54
18:f:681:TYR:OH	22:A:63:THR:OG1	2.05	0.54
18:f:799:VAL:HA	18:f:802:SER:OG	2.08	0.54
18:f:828:ARG:HD2	18:f:874:LEU:CB	2.37	0.54
18:f:887:PHE:CE2	18:f:902:LYS:HG2	2.42	0.54
19:g:108:THR:HA	19:g:141:THR:CA	2.34	0.54
22:A:387:SER:HA	22:A:390:THR:HG22	1.90	0.54
23:B:356:PRO:HB2	23:B:361:LYS:HG3	1.88	0.54
24:E:235:ILE:HD11	24:E:277:MET:HA	1.86	0.54
25:F:196:GLN:O	25:F:200:GLU:HG3	2.08	0.54
25:F:197:GLU:HA	25:F:200:GLU:CD	2.33	0.54
26:K:70:ILE:HD12	26:K:92:ALA:HB3	1.90	0.54
27:U:205:TYR:O	27:U:211:PRO:HB3	2.08	0.54
27:U:902:PRO:HG3	27:U:906:LEU:HD22	1.88	0.54
2:D:120:ASP:HB2	2:D:123:LEU:HG	1.89	0.54
3:G:16:PHE:HB2	4:H:21:GLN:OE1	2.08	0.54
3:G:86:ASP:OD2	3:G:132:ARG:NH2	2.39	0.54
3:G:190:THR:O	3:G:193:GLN:N	2.41	0.54
5:I:4:ARG:HE	5:I:19:TYR:HE2	1.55	0.54
6:J:43:LEU:HD12	6:J:72:ALA:CB	2.37	0.54
10:W:267:LEU:CA	10:W:270:VAL:HG12	2.33	0.54
11:X:96:PHE:CD2	11:X:97:LEU:HD22	2.43	0.54
11:X:297:ARG:CZ	11:X:297:ARG:HB2	2.38	0.54
12:Y:79:ASP:OD1	12:Y:80:GLU:N	2.40	0.54
12:Y:323:PHE:O	12:Y:325:VAL:HG13	2.07	0.54
14:a:131:THR:HA	14:a:134:THR:CG2	2.38	0.54
14:a:203:ALA:O	14:a:207:GLY:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:91:ALA:O	17:d:95:TYR:HB2	2.06	0.54
17:d:175:TYR:OH	17:d:191:LEU:HB2	2.08	0.54
17:d:218:LYS:HD3	17:d:219:ASP:N	2.22	0.54
18:f:140:LEU:HD12	18:f:165:GLU:C	2.33	0.54
18:f:556:ARG:HH11	18:f:556:ARG:HG2	1.72	0.54
18:f:828:ARG:HD2	18:f:874:LEU:N	2.22	0.54
18:f:868:HIS:HB2	18:f:872:VAL:HG21	1.87	0.54
19:g:117:ALA:HB1	19:g:122:LEU:C	2.32	0.54
19:g:122:LEU:HD23	19:g:127:ILE:HG21	1.89	0.54
22:A:58:LYS:O	22:A:62:LEU:HG	2.08	0.54
22:A:239:ARG:O	22:A:239:ARG:HD2	2.08	0.54
23:B:425:ASN:HA	23:B:428:TYR:CZ	2.42	0.54
24:E:111:LEU:HD22	25:F:97:LEU:HD12	1.89	0.54
25:F:185:TYR:CZ	25:F:243:GLN:HB3	2.43	0.54
27:U:209:GLU:HG2	27:U:210:LYS:N	2.23	0.54
27:U:258:GLN:HA	27:U:261:LEU:HD12	1.89	0.54
3:G:77:GLY:HA3	3:G:227:PHE:CD1	2.42	0.54
3:G:201:CYS:O	3:G:205:VAL:HG22	2.07	0.54
4:H:173:PHE:CD2	4:H:194:THR:HA	2.43	0.54
5:I:39:ALA:HB3	5:I:42:GLY:O	2.06	0.54
8:M:117:MET:HE2	8:M:117:MET:N	2.23	0.54
9:V:68:ASP:HA	9:V:71:THR:OG1	2.08	0.54
9:V:128:ARG:O	9:V:132:LEU:HB2	2.07	0.54
9:V:128:ARG:HA	9:V:132:LEU:HD23	1.89	0.54
10:W:430:GLN:HA	10:W:430:GLN:OE1	2.06	0.54
11:X:47:GLU:HG2	11:X:80:ILE:HG22	1.88	0.54
12:Y:45:VAL:HA	12:Y:50:MET:HE3	1.88	0.54
13:Z:6:VAL:HG23	13:Z:158:VAL:HG21	1.90	0.54
14:a:83:VAL:O	14:a:86:GLN:N	2.40	0.54
14:a:93:ALA:HB3	14:a:121:LEU:HD22	1.89	0.54
14:a:115:LYS:O	14:a:118:ILE:HG23	2.07	0.54
14:a:222:LEU:HD12	14:a:222:LEU:O	2.07	0.54
17:d:142:ILE:HG22	17:d:146:ASP:OD2	2.08	0.54
17:d:241:TYR:CD2	17:d:271:ILE:HG12	2.43	0.54
18:f:100:ARG:N	18:f:101:PRO:HD3	2.23	0.54
18:f:609:VAL:HG12	23:B:74:MET:SD	2.47	0.54
18:f:726:ILE:CG2	18:f:762:VAL:HA	2.37	0.54
23:B:112:LEU:HB2	23:B:150:VAL:CG1	2.38	0.54
26:K:154:PHE:CE1	26:K:164:GLN:HB3	2.43	0.54
1:C:162:LYS:CG	1:C:166:GLU:HB2	2.38	0.54
2:D:205:TYR:CB	2:D:314:ALA:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:291:GLU:OE1	2:D:291:GLU:HA	2.08	0.54
6:J:130:SER:O	6:J:161:ILE:HD12	2.08	0.54
7:L:26:MET:HE1	7:L:148:CYS:CB	2.20	0.54
7:L:143:HIS:HB3	7:L:145:PHE:HE1	1.72	0.54
7:L:192:LEU:HD13	7:L:233:LEU:HD23	1.89	0.54
9:V:414:TYR:OH	9:V:425:LYS:HE3	2.08	0.54
9:V:472:PRO:HB3	12:Y:366:TYR:CE1	2.43	0.54
10:W:78:LYS:N	10:W:78:LYS:HD2	2.21	0.54
10:W:212:LYS:O	10:W:212:LYS:HD3	2.07	0.54
10:W:278:PRO:CG	10:W:357:ARG:HH21	2.16	0.54
10:W:327:GLU:OE1	10:W:327:GLU:C	2.51	0.54
10:W:404:ALA:O	10:W:405:LYS:HD3	2.07	0.54
11:X:200:ILE:CG1	11:X:201:TYR:H	2.20	0.54
11:X:339:ILE:CD1	11:X:345:VAL:HG11	2.37	0.54
13:Z:11:VAL:HG13	13:Z:15:VAL:CG1	2.38	0.54
13:Z:16:LEU:HD13	16:c:216:MET:CG	2.38	0.54
13:Z:39:LEU:O	13:Z:92:VAL:HG22	2.08	0.54
14:a:217:LEU:HA	14:a:223:GLU:CD	2.33	0.54
14:a:252:LYS:HA	14:a:255:TRP:CD1	2.42	0.54
15:b:4:GLU:OE1	15:b:108:ARG:HB3	2.08	0.54
15:b:41:THR:HG23	15:b:42:ARG:HD2	1.90	0.54
18:f:753:ALA:HA	18:f:759:LEU:HD22	1.90	0.54
18:f:830:LEU:HB3	18:f:872:VAL:N	2.22	0.54
19:g:169:PHE:O	19:g:173:GLU:HB3	2.08	0.54
22:A:72:LEU:HD11	23:B:103:ARG:NH2	2.22	0.54
22:A:112:ILE:HG12	22:A:122:VAL:HG22	1.90	0.54
24:E:151:LEU:HB3	24:E:159:PHE:CZ	2.43	0.54
27:U:12:LEU:H	27:U:12:LEU:HD12	1.72	0.54
27:U:703:CYS:O	27:U:706:VAL:HG12	2.08	0.54
1:C:81:ASP:O	1:C:82:LYS:HB2	2.07	0.54
7:L:160:SER:O	7:L:165:SER:HB2	2.08	0.54
8:M:15:SER:OG	8:M:17:ASP:OD1	2.16	0.54
9:V:177:ASN:O	9:V:179:LYS:NZ	2.38	0.54
10:W:132:THR:HB	10:W:138:VAL:CG1	2.38	0.54
10:W:166:LEU:HD23	10:W:192:LEU:HD12	1.90	0.54
11:X:57:LEU:CD2	11:X:66:LEU:HB2	2.37	0.54
11:X:91:SER:O	11:X:95:LEU:HD23	2.08	0.54
12:Y:152:MET:HG3	12:Y:152:MET:O	2.08	0.54
13:Z:173:GLU:OE2	13:Z:173:GLU:HA	2.08	0.54
13:Z:199:LYS:HA	14:a:364:GLU:OE1	2.07	0.54
14:a:37:LEU:HD21	14:a:64:ILE:CD1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:243:GLY:HA2	14:a:272:ILE:HD12	1.90	0.54
14:a:247:ARG:HD2	14:a:301:LYS:HD3	1.90	0.54
14:a:371:ALA:HB1	14:a:374:ILE:CG2	2.37	0.54
14:a:371:ALA:O	14:a:375:LEU:HB2	2.07	0.54
18:f:191:ILE:HD13	18:f:207:LEU:HD21	1.89	0.54
18:f:350:LYS:O	18:f:350:LYS:HG2	2.08	0.54
18:f:433:LEU:CD1	18:f:441:LYS:HA	2.36	0.54
24:E:83:CYS:SG	24:E:89:LYS:NZ	2.63	0.54
24:E:125:GLU:HB2	25:F:344:ARG:NH2	2.22	0.54
24:E:305:ASN:HB2	24:E:308:ALA:HB2	1.90	0.54
25:F:80:ILE:O	25:F:84:LYS:HG2	2.07	0.54
25:F:268:VAL:HG11	25:F:313:LEU:HA	1.90	0.54
27:U:247:GLN:HG3	27:U:904:LYS:CD	2.38	0.54
27:U:649:ARG:HH11	27:U:678:ASP:CG	2.16	0.54
1:C:310:ARG:O	1:C:311:ILE:HD13	2.08	0.54
2:D:147:ALA:HB1	2:D:253:LEU:HD11	1.89	0.54
2:D:402:ALA:O	2:D:405:THR:HG22	2.08	0.54
3:G:15:ILE:HD13	4:H:8:PHE:HB3	1.88	0.54
4:H:177:ARG:HG2	4:H:177:ARG:HH11	1.72	0.54
5:I:178:ASP:C	5:I:178:ASP:OD1	2.51	0.54
6:J:109:ARG:HH11	6:J:109:ARG:HG3	1.72	0.54
9:V:365:GLN:NE2	28:e:46:ASP:HB3	2.22	0.54
10:W:140:ILE:CG2	10:W:144:ARG:HH22	2.21	0.54
11:X:67:GLY:O	11:X:71:LYS:HG2	2.08	0.54
11:X:173:GLU:CA	11:X:176:THR:HG22	2.38	0.54
11:X:306:LEU:HD11	11:X:314:ARG:NE	2.22	0.54
11:X:397:TYR:O	11:X:401:LEU:HD23	2.07	0.54
12:Y:58:CYS:O	12:Y:62:ASP:N	2.41	0.54
13:Z:223:ASN:O	13:Z:224:HIS:HB3	2.07	0.54
14:a:21:VAL:HA	14:a:44:PHE:CE2	2.43	0.54
14:a:58:LYS:NZ	14:a:58:LYS:HB2	2.23	0.54
14:a:61:GLU:CG	14:a:79:ILE:HD13	2.38	0.54
14:a:317:VAL:HB	14:a:319:LEU:CD1	2.38	0.54
15:b:130:ARG:HB3	15:b:130:ARG:CZ	2.36	0.54
15:b:154:THR:HA	15:b:170:LEU:CD2	2.38	0.54
16:c:75:MET:HE1	16:c:88:ASP:N	2.22	0.54
17:d:98:LEU:HG	17:d:150:ILE:HD13	1.90	0.54
18:f:66:LYS:HA	18:f:71:TYR:CZ	2.43	0.54
18:f:386:GLY:C	18:f:418:LEU:HD21	2.33	0.54
18:f:390:LEU:HB3	18:f:398:TRP:CZ3	2.43	0.54
18:f:539:LEU:HD11	18:f:579:ALA:HB1	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:745:LEU:HD13	18:f:766:GLN:N	2.23	0.54
18:f:833:PHE:C	18:f:840:LEU:HB3	2.33	0.54
19:g:164:ASP:C	19:g:168:ASN:H	2.15	0.54
22:A:111:TYR:CD1	22:A:125:LEU:HD21	2.43	0.54
26:K:108:THR:N	26:K:111:SER:OG	2.41	0.54
26:K:112:VAL:O	26:K:115:ALA:N	2.41	0.54
27:U:452:ASN:ND2	27:U:758:PRO:HG3	2.23	0.54
27:U:549:ALA:CA	27:U:581:SER:HB2	2.36	0.54
27:U:638:SER:CB	27:U:671:LEU:HD11	2.38	0.54
27:U:646:PRO:CG	27:U:680:VAL:HG21	2.38	0.54
27:U:699:THR:O	27:U:702:THR:N	2.39	0.54
1:C:37:ASP:OD1	1:C:38:LYS:HE3	2.09	0.53
1:C:163:GLU:HB3	23:B:404:LEU:HD13	1.90	0.53
1:C:314:LYS:CE	23:B:429:LYS:HB3	2.38	0.53
6:J:103:THR:HG23	6:J:106:TYR:H	1.73	0.53
8:M:163:CYS:SG	8:M:164:ALA:N	2.82	0.53
9:V:121:PHE:HZ	9:V:164:GLU:HA	1.73	0.53
10:W:20:TYR:HB3	10:W:23:THR:OG1	2.08	0.53
10:W:131:VAL:O	10:W:135:LYS:HD2	2.08	0.53
10:W:256:ILE:HA	10:W:259:GLU:OE2	2.08	0.53
10:W:272:LEU:HD21	10:W:341:PHE:CE2	2.42	0.53
13:Z:65:ASP:OD1	13:Z:103:LYS:HD2	2.07	0.53
13:Z:135:THR:HG21	13:Z:162:ILE:HD11	1.90	0.53
14:a:109:GLU:HG3	14:a:151:VAL:CG1	2.39	0.53
16:c:188:SER:O	16:c:192:LEU:HD13	2.07	0.53
16:c:291:LEU:O	16:c:295:ASN:ND2	2.40	0.53
18:f:422:VAL:HG11	18:f:461:PRO:HG2	1.89	0.53
18:f:513:GLU:HB2	18:f:554:TYR:CD2	2.43	0.53
19:g:89:LEU:HB3	19:g:90:PRO:CD	2.38	0.53
19:g:130:VAL:HG12	19:g:135:GLN:HE21	1.73	0.53
22:A:119:ALA:HB1	25:F:89:LEU:HD11	1.90	0.53
22:A:209:PRO:HD3	25:F:405:MET:HE3	1.89	0.53
22:A:425:ALA:O	22:A:429:TYR:HB2	2.08	0.53
24:E:277:MET:HE1	24:E:289:LEU:HD22	1.89	0.53
25:F:136:VAL:HG23	25:F:159:LEU:HD11	1.88	0.53
26:K:69:GLU:HG3	26:K:71:ASP:O	2.08	0.53
2:D:133:HIS:O	2:D:137:ASN:HA	2.08	0.53
2:D:377:SER:C	2:D:379:CYS:N	2.65	0.53
3:G:10:ASP:OD2	8:M:7:TYR:HE2	1.91	0.53
4:H:44:VAL:HB	4:H:213:CYS:HB2	1.91	0.53
4:H:119:GLN:HG3	5:I:81:SER:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:35:LEU:HA	5:I:162:THR:O	2.09	0.53
5:I:71:ASP:HB3	5:I:223:THR:HG21	1.90	0.53
6:J:83:VAL:HG11	6:J:129:ILE:HD11	1.88	0.53
7:L:36:VAL:CG1	7:L:47:VAL:HB	2.38	0.53
9:V:217:VAL:O	9:V:221:LEU:HG	2.09	0.53
9:V:276:PHE:HD1	9:V:277:PRO:CD	2.21	0.53
9:V:379:LEU:O	9:V:383:GLY:HA3	2.09	0.53
10:W:385:SER:OG	10:W:388:GLU:HG3	2.07	0.53
10:W:385:SER:N	10:W:388:GLU:OE2	2.29	0.53
11:X:57:LEU:CG	11:X:62:GLN:HB2	2.38	0.53
11:X:96:PHE:CE2	11:X:109:LEU:HD13	2.43	0.53
13:Z:129:LYS:HD2	16:c:215:LYS:HG3	1.89	0.53
14:a:221:VAL:HB	14:a:225:LEU:HD12	1.91	0.53
16:c:292:MET:SD	17:d:346:LEU:HD22	2.48	0.53
17:d:192:LEU:HD12	17:d:215:LEU:HD21	1.88	0.53
18:f:411:ALA:O	18:f:414:LEU:HB2	2.07	0.53
18:f:434:TYR:HB2	19:g:170:GLN:O	2.08	0.53
19:g:112:LEU:CG	19:g:142:LEU:HD11	2.37	0.53
19:g:116:ILE:HG21	19:g:129:ILE:CG1	2.38	0.53
19:g:131:ILE:HG21	19:g:147:VAL:CG2	2.34	0.53
22:A:274:PHE:HB2	22:A:319:MET:HG3	1.91	0.53
25:F:129:ARG:HH11	25:F:129:ARG:HG3	1.73	0.53
26:K:195:ILE:HD12	26:K:217:LEU:CD1	2.38	0.53
27:U:252:LEU:HD23	27:U:329:LEU:CD2	2.38	0.53
27:U:496:LEU:HD12	27:U:496:LEU:O	2.08	0.53
27:U:606:ALA:HB2	27:U:618:ALA:HB3	1.88	0.53
27:U:698:GLN:O	27:U:706:VAL:HG21	2.07	0.53
27:U:736:ILE:HD11	27:U:779:LEU:HD23	1.90	0.53
1:C:156:LYS:NZ	1:C:160:GLU:OE2	2.42	0.53
1:C:225:GLY:HA3	23:B:256:ILE:O	2.08	0.53
2:D:399:PHE:O	2:D:403:TYR:N	2.39	0.53
4:H:148:GLN:HB3	4:H:156:PHE:HD2	1.73	0.53
5:I:148:TYR:CD1	5:I:158:GLY:HA2	2.43	0.53
9:V:61:GLU:CA	9:V:64:GLN:HB3	2.38	0.53
9:V:263:LEU:N	9:V:263:LEU:HD12	2.24	0.53
9:V:417:ILE:CD1	9:V:422:ILE:HG13	2.36	0.53
10:W:49:SER:HA	10:W:52:LYS:NZ	2.23	0.53
10:W:319:THR:O	10:W:323:ASP:HB2	2.08	0.53
12:Y:179:ARG:HG3	12:Y:210:SER:HB3	1.91	0.53
12:Y:314:LEU:HD13	12:Y:319:MET:HG3	1.91	0.53
13:Z:67:VAL:HG21	15:b:91:ARG:CD	2.31	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z:201:LEU:HB2	16:c:225:TRP:CZ3	2.43	0.53
14:a:25:LEU:HD22	14:a:37:LEU:CD1	2.36	0.53
14:a:122:LYS:O	14:a:122:LYS:HG2	2.09	0.53
15:b:109:ILE:CB	15:b:138:VAL:HG23	2.38	0.53
15:b:109:ILE:HG22	15:b:138:VAL:HG23	1.91	0.53
16:c:29:GLU:OE2	16:c:161:ARG:NH2	2.41	0.53
17:d:337:LYS:HB2	17:d:337:LYS:HZ3	1.73	0.53
18:f:702:PRO:CG	18:f:736:THR:HG21	2.38	0.53
22:A:397:ILE:CD1	23:B:210:TYR:HB3	2.31	0.53
24:E:317:ALA:HB1	24:E:322:LYS:HE3	1.91	0.53
25:F:226:TYR:HB2	25:F:335:VAL:HG21	1.90	0.53
25:F:238:ARG:O	25:F:242:ALA:N	2.37	0.53
25:F:347:ARG:O	25:F:349:ASP:N	2.41	0.53
26:K:74:ILE:HG23	26:K:74:ILE:O	2.08	0.53
27:U:134:VAL:O	27:U:138:PHE:N	2.29	0.53
27:U:426:TYR:C	27:U:427:LEU:HD22	2.33	0.53
27:U:629:THR:HG23	27:U:629:THR:O	2.08	0.53
27:U:805:ASN:HB3	27:U:891:VAL:HB	1.89	0.53
1:C:180:ILE:HD12	1:C:180:ILE:C	2.33	0.53
1:C:306:LEU:O	23:B:429:LYS:HG3	2.09	0.53
1:C:350:LEU:HD23	1:C:387:VAL:CG1	2.38	0.53
4:H:174:LEU:C	4:H:176:LYS:H	2.15	0.53
6:J:33:VAL:HG23	6:J:159:ASN:O	2.08	0.53
8:M:189:ILE:O	8:M:192:GLU:N	2.39	0.53
9:V:289:LEU:CB	9:V:312:ALA:HB2	2.38	0.53
10:W:166:LEU:HD12	10:W:166:LEU:O	2.09	0.53
10:W:194:LEU:CD2	10:W:202:THR:HG21	2.35	0.53
10:W:263:TRP:CH2	10:W:295:LYS:HD3	2.43	0.53
10:W:355:LYS:O	10:W:359:VAL:HG23	2.09	0.53
11:X:414:LEU:HD21	13:Z:273:HIS:CG	2.42	0.53
12:Y:70:LEU:CD1	12:Y:74:LYS:HG3	2.39	0.53
14:a:189:PRO:CD	14:a:192:GLU:HB2	2.39	0.53
14:a:247:ARG:HD3	14:a:301:LYS:NZ	2.22	0.53
14:a:320:VAL:HG13	14:a:333:MET:SD	2.48	0.53
14:a:331:VAL:O	14:a:331:VAL:HG12	2.08	0.53
15:b:52:ILE:HD12	15:b:60:VAL:HG13	1.91	0.53
16:c:63:ASP:OD1	16:c:63:ASP:C	2.50	0.53
18:f:459:CYS:O	19:g:133:LYS:HA	2.08	0.53
18:f:704:LEU:HD11	18:f:740:ARG:HD2	1.90	0.53
18:f:787:LEU:HD23	18:f:787:LEU:O	2.08	0.53
19:g:112:LEU:CG	19:g:116:ILE:HD12	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:g:132:ASN:C	19:g:133:LYS:HG2	2.34	0.53
22:A:245:LEU:HD12	22:A:280:ILE:CD1	2.38	0.53
24:E:111:LEU:HD22	25:F:97:LEU:CD1	2.37	0.53
25:F:333:ASN:C	25:F:333:ASN:OD1	2.52	0.53
27:U:177:LEU:HD21	27:U:205:TYR:CZ	2.43	0.53
27:U:532:MET:HG2	27:U:548:LEU:HD11	1.89	0.53
1:C:266:ASP:HB3	1:C:269:VAL:HG12	1.90	0.53
2:D:40:LEU:HD23	27:U:149:GLN:CD	2.32	0.53
2:D:383:GLY:HA2	2:D:394:VAL:HG22	1.90	0.53
4:H:36:VAL:HG13	4:H:195:LEU:CD2	2.38	0.53
4:H:72:ILE:HG21	4:H:110:LEU:HD23	1.90	0.53
7:L:95:SER:OG	7:L:103:LEU:HD13	2.09	0.53
8:M:161:TRP:HB3	8:M:181:MET:HE1	1.90	0.53
10:W:112:VAL:HG21	10:W:145:LEU:HD21	1.91	0.53
10:W:122:LEU:HA	10:W:125:ILE:CD1	2.37	0.53
10:W:183:VAL:O	10:W:187:LEU:HD23	2.07	0.53
11:X:182:ASN:OD1	11:X:185:LYS:HB2	2.08	0.53
13:Z:40:LEU:HD11	13:Z:54:PHE:CD2	2.43	0.53
14:a:118:ILE:O	14:a:122:LYS:CB	2.56	0.53
15:b:33:VAL:HG11	15:b:75:LEU:CD1	2.36	0.53
15:b:53:THR:CB	15:b:61:LEU:HD11	2.39	0.53
17:d:207:GLU:HA	17:d:210:THR:CG2	2.38	0.53
18:f:137:ARG:HA	18:f:137:ARG:NE	2.23	0.53
18:f:375:SER:HA	18:f:398:TRP:CZ2	2.43	0.53
18:f:566:HIS:O	18:f:599:ALA:HA	2.09	0.53
18:f:670:MET:HE3	23:B:68:ILE:HA	1.91	0.53
18:f:764:LEU:HD11	18:f:818:LEU:CD2	2.37	0.53
19:g:105:LEU:CD1	19:g:142:LEU:HD23	2.39	0.53
22:A:166:VAL:CG1	22:A:237:PHE:HB3	2.38	0.53
22:A:171:ASP:OD1	22:A:171:ASP:N	2.26	0.53
24:E:110:TYR:O	24:E:111:LEU:HD23	2.08	0.53
25:F:230:GLY:O	25:F:393:GLY:N	2.41	0.53
26:K:99:HIS:HD2	26:K:107:MET:HE3	1.74	0.53
26:K:168:ARG:HA	26:K:178:GLN:HE22	1.73	0.53
27:U:399:TRP:O	27:U:402:PHE:N	2.37	0.53
27:U:791:LEU:CD1	27:U:797:MET:HE1	2.38	0.53
1:C:384:GLU:HA	1:C:387:VAL:CG1	2.37	0.53
3:G:101:TRP:CE3	3:G:109:ILE:HD12	2.44	0.53
7:L:109:VAL:HG21	7:L:145:PHE:CG	2.43	0.53
7:L:233:LEU:CD2	7:L:236:LEU:HD22	2.37	0.53
8:M:67:PHE:HZ	8:M:85:ARG:HD2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M:160:TYR:CD2	8:M:163:CYS:HB2	2.43	0.53
9:V:421:ASP:OD2	12:Y:349:LYS:HG2	2.08	0.53
10:W:428:TRP:CD1	13:Z:238:PRO:HB3	2.43	0.53
10:W:451:MET:HE2	13:Z:100:LYS:CD	2.38	0.53
12:Y:236:LEU:HD12	12:Y:240:VAL:HB	1.91	0.53
14:a:275:LEU:HA	14:a:278:MET:HE3	1.90	0.53
14:a:281:THR:HA	14:a:284:ARG:HG3	1.89	0.53
17:d:141:LEU:HG	17:d:182:LEU:HD21	1.91	0.53
18:f:241:PRO:HG3	27:U:835:ILE:CG2	2.38	0.53
18:f:562:LEU:HD23	18:f:562:LEU:C	2.33	0.53
22:A:433:ASN:C	26:K:66:LYS:HD3	2.33	0.53
23:B:214:MET:O	23:B:214:MET:HG3	2.07	0.53
23:B:406:ALA:HB1	23:B:411:ARG:O	2.08	0.53
26:K:74:ILE:CD1	26:K:109:VAL:HG23	2.38	0.53
27:U:153:ILE:HD12	27:U:156:GLU:OE1	2.09	0.53
27:U:160:LEU:HD11	27:U:196:LYS:CD	2.38	0.53
27:U:321:GLN:OE1	27:U:324:LYS:HB3	2.09	0.53
27:U:346:ASN:OD1	27:U:348:THR:HG23	2.09	0.53
27:U:446:LEU:O	27:U:446:LEU:HD23	2.07	0.53
27:U:603:LEU:HG	27:U:622:LEU:HD21	1.91	0.53
27:U:761:VAL:O	27:U:765:VAL:HG12	2.09	0.53
1:C:368:MET:CA	1:C:368:MET:HE3	2.38	0.53
2:D:45:LYS:CB	27:U:187:LEU:HD13	2.36	0.53
5:I:43:VAL:CG1	5:I:137:ILE:HB	2.39	0.53
5:I:153:SER:HG	5:I:155:ASN:ND2	2.06	0.53
6:J:68:ASN:CA	6:J:211:MET:HE1	2.37	0.53
6:J:158:ALA:HB1	6:J:172:LEU:HD21	1.89	0.53
7:L:158:ALA:HB1	7:L:172:LEU:CD1	2.39	0.53
9:V:345:ARG:HG2	28:e:41:ASP:O	2.09	0.53
10:W:125:ILE:HD12	10:W:149:LEU:HD13	1.90	0.53
12:Y:101:ARG:HD2	12:Y:131:THR:CA	2.38	0.53
12:Y:114:ILE:CD1	12:Y:116:ASP:HB2	2.34	0.53
13:Z:74:TYR:O	13:Z:74:TYR:HD1	1.92	0.53
13:Z:125:ASP:HB2	13:Z:128:PRO:CG	2.37	0.53
13:Z:227:ILE:CG1	14:a:346:ILE:HD11	2.39	0.53
14:a:8:LEU:HA	14:a:22:TRP:HZ3	1.73	0.53
15:b:73:SER:HA	25:F:61:ARG:NE	2.24	0.53
16:c:303:MET:CE	17:d:335:LEU:HD13	2.39	0.53
18:f:93:PRO:HG2	18:f:96:LEU:HB2	1.91	0.53
18:f:465:LEU:HD11	19:g:173:GLU:CG	2.39	0.53
18:f:723:TYR:CE2	18:f:811:LEU:HD11	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:783:SER:HB3	18:f:787:LEU:HB3	1.90	0.53
22:A:101:ILE:O	22:A:101:ILE:CG2	2.57	0.53
23:B:430:LYS:HZ3	23:B:430:LYS:HA	1.73	0.53
24:E:133:SER:O	24:E:315:ILE:CD1	2.57	0.53
25:F:251:LEU:CG	25:F:256:LEU:HD11	2.38	0.53
27:U:21:GLU:OE1	27:U:56:SER:HB2	2.08	0.53
27:U:62:LEU:O	27:U:66:LYS:HG3	2.09	0.53
27:U:348:THR:HG22	27:U:741:GLY:CA	2.39	0.53
27:U:497:LEU:CD1	27:U:515:ALA:HB1	2.39	0.53
27:U:646:PRO:HB2	27:U:682:TYR:OH	2.09	0.53
27:U:655:ALA:O	27:U:659:CYS:HB3	2.08	0.53
1:C:175:PHE:CD2	1:C:180:ILE:HD11	2.44	0.53
1:C:188:LEU:HD22	1:C:317:PHE:CE1	2.44	0.53
1:C:345:ARG:HG3	1:C:345:ARG:NH1	2.21	0.53
4:H:71:HIS:CE1	4:H:104:PRO:HB3	2.44	0.53
5:I:90:LEU:HG	5:I:114:LEU:CD2	2.25	0.53
7:L:46:LEU:HD12	7:L:46:LEU:O	2.09	0.53
9:V:443:ARG:CG	17:d:277:LYS:HE2	2.39	0.53
9:V:469:THR:HG22	9:V:470:ARG:N	2.19	0.53
10:W:187:LEU:HD13	10:W:229:LEU:HD12	1.89	0.53
11:X:75:PRO:HA	11:X:78:ASN:OD1	2.08	0.53
11:X:414:LEU:HD11	13:Z:273:HIS:CB	2.34	0.53
12:Y:233:ARG:NH2	12:Y:264:TYR:O	2.32	0.53
12:Y:349:LYS:HG3	12:Y:349:LYS:O	2.08	0.53
14:a:7:PHE:CE2	14:a:60:TYR:HA	2.38	0.53
14:a:68:GLU:CG	14:a:69:HIS:N	2.71	0.53
14:a:154:ARG:HA	14:a:157:ASP:HB2	1.90	0.53
14:a:186:LYS:CE	14:a:190:VAL:HA	2.39	0.53
14:a:285:PRO:O	14:a:286:ALA:HB3	2.09	0.53
14:a:374:ILE:CD1	17:d:347:GLU:HG3	2.38	0.53
15:b:11:ASP:CG	15:b:84:ILE:HD12	2.34	0.53
15:b:16:MET:CE	15:b:26:LEU:HD12	2.39	0.53
17:d:258:PHE:CZ	17:d:262:ILE:HD11	2.44	0.53
17:d:310:LEU:HA	17:d:316:TYR:HA	1.90	0.53
18:f:247:ALA:HA	18:f:250:ARG:NE	2.24	0.53
18:f:267:ARG:CZ	18:f:893:ILE:HD13	2.39	0.53
19:g:107:ILE:HG13	19:g:115:LYS:HZ2	1.72	0.53
19:g:109:GLY:HA3	19:g:145:GLN:HE22	1.74	0.53
24:E:236:ASP:HB3	24:E:281:ARG:HG3	1.90	0.53
25:F:247:THR:H	25:F:281:SER:HA	1.74	0.53
25:F:283:ILE:HB	25:F:328:VAL:HG23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:81:LEU:CD1	26:K:138:GLY:HA3	2.37	0.53
26:K:85:ALA:HB2	26:K:139:VAL:HG21	1.91	0.53
26:K:107:MET:HE2	26:K:111:SER:HB2	1.90	0.53
26:K:190:THR:CG2	26:K:193:GLU:H	2.21	0.53
27:U:490:ARG:CB	27:U:493:VAL:HG12	2.39	0.53
1:C:94:LYS:HE3	23:B:166:ASP:OD1	2.09	0.53
1:C:131:VAL:CG1	1:C:136:SER:HB2	2.37	0.53
6:J:6:ALA:HB3	6:J:9:VAL:HG22	1.91	0.53
6:J:24:GLU:HA	6:J:24:GLU:OE2	2.09	0.53
6:J:65:LEU:HD13	6:J:87:ALA:HB1	1.89	0.53
8:M:31:GLU:OE1	8:M:169:ARG:NH1	2.41	0.53
9:V:324:PHE:CE1	9:V:328:VAL:CG2	2.92	0.53
10:W:165:ILE:O	10:W:168:GLU:HG2	2.09	0.53
11:X:390:GLU:OE1	11:X:390:GLU:N	2.41	0.53
14:a:221:VAL:HG23	14:a:222:LEU:N	2.24	0.53
17:d:170:GLN:OE1	27:U:11:LEU:HD23	2.08	0.53
22:A:300:LEU:HA	22:A:303:ILE:HG22	1.90	0.53
24:E:271:HIS:C	24:E:272:ARG:NH2	2.67	0.53
24:E:309:ARG:NH2	24:E:335:SER:O	2.42	0.53
25:F:431:LYS:O	25:F:431:LYS:HG3	2.09	0.53
26:K:32:LYS:O	26:K:172:SER:HB3	2.08	0.53
3:G:50:ILE:CG2	3:G:141:ILE:HD13	2.39	0.53
3:G:65:THR:O	3:G:65:THR:HG22	2.08	0.53
6:J:133:ILE:N	6:J:145:TYR:O	2.40	0.53
8:M:49:VAL:CG2	8:M:65:ARG:HE	2.21	0.53
8:M:73:VAL:HG13	8:M:108:LEU:CD1	2.38	0.53
9:V:115:LYS:NZ	9:V:146:GLN:HA	2.24	0.53
9:V:189:ASP:OD1	9:V:190:ASP:N	2.40	0.53
9:V:416:ARG:O	9:V:416:ARG:HG2	2.09	0.53
10:W:377:ARG:HE	10:W:381:LEU:CD2	2.18	0.53
11:X:384:VAL:HG23	11:X:386:ILE:CD1	2.39	0.53
12:Y:18:ARG:HD2	12:Y:18:ARG:O	2.09	0.53
12:Y:191:ILE:O	12:Y:191:ILE:HG13	2.07	0.53
13:Z:246:VAL:HG13	17:d:330:ILE:CD1	2.39	0.53
14:a:41:VAL:O	14:a:45:VAL:N	2.42	0.53
14:a:109:GLU:HG3	14:a:112:ILE:CG2	2.39	0.53
14:a:171:SER:HA	14:a:174:LYS:HZ2	1.73	0.53
14:a:281:THR:OG1	14:a:333:MET:HG2	2.09	0.53
16:c:261:GLU:OE2	16:c:263:ASP:N	2.37	0.53
17:d:129:LEU:CD1	27:U:8:ILE:HD11	2.39	0.53
17:d:300:THR:O	17:d:304:LYS:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:167:ALA:HB1	18:f:210:GLU:HB3	1.92	0.53
18:f:372:LEU:HA	18:f:375:SER:OG	2.09	0.53
18:f:416:MET:CE	18:f:819:TYR:HE1	2.21	0.53
18:f:449:GLY:HA3	18:f:484:GLY:O	2.06	0.53
18:f:526:ALA:O	18:f:565:ASN:ND2	2.41	0.53
18:f:594:LEU:HD12	18:f:652:VAL:CG1	2.33	0.53
18:f:606:VAL:HG21	23:B:70:ASP:HB3	1.89	0.53
19:g:98:LYS:CE	19:g:100:LEU:HD11	2.38	0.53
19:g:103:THR:OG1	19:g:115:LYS:HB2	2.09	0.53
20:u:146:PHE:HA	20:u:157:LEU:HD12	1.91	0.53
22:A:372:LEU:O	22:A:376:LEU:HD12	2.08	0.53
23:B:123:VAL:HG21	23:B:152:LEU:HD22	1.91	0.53
23:B:223:ILE:CG2	23:B:350:LYS:HA	2.38	0.53
27:U:164:GLU:O	27:U:168:LEU:HD13	2.09	0.53
27:U:796:LYS:HE2	27:U:798:PRO:HB3	1.90	0.53
27:U:889:LEU:HD23	27:U:890:LYS:N	2.23	0.53
1:C:21:ARG:HD2	1:C:21:ARG:O	2.09	0.52
1:C:49:ARG:O	1:C:52:LEU:N	2.42	0.52
3:G:137:CYS:SG	3:G:155:ASP:HA	2.49	0.52
4:H:38:ILE:HD13	4:H:191:ALA:CB	2.38	0.52
5:I:6:ASP:C	5:I:6:ASP:OD1	2.52	0.52
11:X:183:LEU:HD11	11:X:220:ALA:CB	2.39	0.52
11:X:347:ILE:HD11	11:X:378:LEU:HD22	1.90	0.52
12:Y:262:SER:OG	12:Y:271:PHE:HB2	2.09	0.52
12:Y:334:LEU:CB	12:Y:347:ILE:HD11	2.39	0.52
13:Z:20:VAL:CG2	13:Z:126:VAL:HG23	2.39	0.52
14:a:171:SER:HA	14:a:174:LYS:NZ	2.24	0.52
14:a:201:GLY:O	14:a:205:LEU:HD23	2.10	0.52
16:c:163:ILE:HG22	16:c:199:HIS:C	2.34	0.52
18:f:160:ARG:HD3	22:A:39:SER:HA	1.90	0.52
18:f:282:PHE:CE2	18:f:305:LEU:HD11	2.44	0.52
18:f:499:THR:HA	18:f:502:LEU:CD1	2.39	0.52
18:f:589:SER:HG	18:f:649:HIS:CE1	2.27	0.52
18:f:726:ILE:HG21	18:f:762:VAL:HA	1.90	0.52
18:f:873:LEU:C	18:f:874:LEU:HD23	2.34	0.52
20:u:167:ILE:HG23	20:u:167:ILE:O	2.09	0.52
22:A:109:PRO:HB2	22:A:111:TYR:CE1	2.44	0.52
24:E:291:ARG:HB3	24:E:292:PRO:HD2	1.91	0.52
25:F:315:ASN:HB3	25:F:316:GLN:HE21	1.74	0.52
27:U:811:PHE:O	27:U:812:ALA:CB	2.57	0.52
1:C:295:THR:OG1	1:C:296:ASN:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:306:LEU:HB2	23:B:429:LYS:HG3	1.90	0.52
1:C:378:VAL:HG13	1:C:382:ASP:OD2	2.09	0.52
3:G:165:ALA:O	4:H:56:LEU:HB3	2.09	0.52
4:H:112:GLN:HG2	4:H:155:TYR:CE2	2.44	0.52
6:J:16:LEU:HD12	26:K:81:LEU:CD2	2.39	0.52
6:J:90:GLU:HG2	6:J:110:TYR:CD2	2.45	0.52
6:J:110:TYR:HA	6:J:113:SER:OG	2.09	0.52
7:L:227:ASP:O	7:L:231:PRO:HD3	2.08	0.52
8:M:40:ARG:HB3	8:M:45:VAL:HG22	1.91	0.52
9:V:69:THR:HA	9:V:72:LEU:HB2	1.91	0.52
9:V:162:GLU:OE2	9:V:203:LEU:HA	2.09	0.52
9:V:410:ILE:HG21	9:V:422:ILE:HG12	1.90	0.52
11:X:347:ILE:CD1	11:X:378:LEU:HD22	2.39	0.52
14:a:44:PHE:HA	14:a:47:ASP:HB3	1.91	0.52
17:d:258:PHE:O	17:d:262:ILE:HG13	2.09	0.52
18:f:177:GLU:OE1	18:f:180:GLN:HG3	2.09	0.52
18:f:327:ASN:C	18:f:327:ASN:OD1	2.51	0.52
18:f:343:LYS:CG	18:f:773:LYS:HE2	2.39	0.52
18:f:546:SER:O	18:f:550:LEU:HG	2.10	0.52
18:f:564:LEU:HD21	18:f:794:ALA:HA	1.91	0.52
18:f:670:MET:HE1	23:B:50:PRO:HD2	1.90	0.52
18:f:792:ALA:HA	18:f:824:ALA:HB2	1.90	0.52
22:A:166:VAL:HG12	22:A:237:PHE:HB3	1.91	0.52
22:A:193:THR:HG22	22:A:201:PHE:CE1	2.44	0.52
22:A:213:LEU:HD11	22:A:321:THR:HG22	1.89	0.52
22:A:394:MET:CE	23:B:199:GLU:HB3	2.39	0.52
23:B:414:VAL:CG2	23:B:418:ASP:HB2	2.37	0.52
24:E:35:GLU:HA	24:E:38:LYS:CE	2.39	0.52
25:F:285:ILE:O	25:F:331:ALA:N	2.38	0.52
25:F:425:LEU:HD13	25:F:432:LYS:CB	2.39	0.52
27:U:806:CYS:H	27:U:874:ASN:HB2	1.74	0.52
1:C:24:TYR:O	1:C:28:ILE:HG23	2.08	0.52
1:C:165:ILE:HG23	1:C:245:ILE:CD1	2.39	0.52
2:D:106:THR:HG22	24:E:77:PRO:HA	1.92	0.52
2:D:119:ILE:O	2:D:121:ARG:NH1	2.42	0.52
7:L:5:GLN:OE1	8:M:9:LEU:HD11	2.09	0.52
7:L:33:SER:HG	7:L:51:ARG:NE	2.07	0.52
8:M:87:LEU:HD13	8:M:131:PHE:HE2	1.75	0.52
8:M:187:ARG:HG2	8:M:219:LEU:HD13	1.91	0.52
9:V:61:GLU:O	9:V:65:ARG:HD2	2.09	0.52
9:V:175:MET:HB3	9:V:180:ARG:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:244:ALA:HB1	9:V:279:GLN:NE2	2.24	0.52
9:V:281:ASN:OD1	9:V:281:ASN:C	2.51	0.52
9:V:483:CYS:SG	12:Y:377:LEU:HD11	2.49	0.52
10:W:135:LYS:HD3	10:W:137:TYR:HE2	1.72	0.52
11:X:406:ASN:HD21	16:c:253:LYS:CD	2.22	0.52
14:a:116:THR:CG2	14:a:154:ARG:HB3	2.39	0.52
14:a:216:LEU:CD2	14:a:238:TYR:HA	2.37	0.52
14:a:250:THR:HA	14:a:253:THR:CG2	2.38	0.52
17:d:218:LYS:HD3	17:d:219:ASP:OD1	2.10	0.52
18:f:89:MET:C	18:f:91:SER:H	2.15	0.52
18:f:498:LEU:O	18:f:502:LEU:HG	2.09	0.52
24:E:252:GLU:O	24:E:256:THR:HG22	2.09	0.52
26:K:210:LEU:HD12	26:K:211:ASN:H	1.74	0.52
27:U:217:CYS:SG	27:U:248:ILE:HD12	2.49	0.52
3:G:202:LEU:HB3	3:G:210:PHE:HE2	1.74	0.52
3:G:224:ASN:O	3:G:226:LYS:N	2.43	0.52
5:I:28:ILE:HD12	5:I:77:ALA:O	2.09	0.52
5:I:192:LEU:HA	5:I:195:LYS:HB3	1.90	0.52
6:J:70:CYS:CB	6:J:217:LEU:HD21	2.39	0.52
6:J:140:GLY:O	6:J:213:ARG:NH2	2.43	0.52
7:L:95:SER:HB3	7:L:103:LEU:HB2	1.90	0.52
7:L:140:MET:O	7:L:140:MET:HG3	2.09	0.52
7:L:158:ALA:HB1	7:L:172:LEU:HD13	1.91	0.52
8:M:33:SER:OG	8:M:34:SER:N	2.41	0.52
9:V:150:ARG:HD3	9:V:159:LEU:HD21	1.91	0.52
9:V:249:THR:O	9:V:253:LEU:HD23	2.10	0.52
9:V:258:TYR:CE2	9:V:266:GLN:HG3	2.45	0.52
9:V:300:LEU:O	9:V:300:LEU:CD2	2.57	0.52
10:W:80:TRP:HA	10:W:80:TRP:CE3	2.44	0.52
10:W:96:GLN:HG3	10:W:101:VAL:HG23	1.90	0.52
10:W:296:LEU:HB3	10:W:303:LYS:HD3	1.91	0.52
10:W:377:ARG:NH2	10:W:381:LEU:HD21	2.23	0.52
10:W:396:LEU:HD22	10:W:401:THR:CB	2.39	0.52
12:Y:149:LEU:CA	12:Y:157:ILE:HD11	2.40	0.52
14:a:365:MET:HA	14:a:368:GLU:OE2	2.10	0.52
17:d:161:ILE:HD12	17:d:161:ILE:H	1.74	0.52
18:f:211:ILE:O	18:f:212:GLU:HG2	2.09	0.52
18:f:246:SER:HA	18:f:249:LEU:HD12	1.92	0.52
18:f:408:LEU:HD12	18:f:443:GLY:HA2	1.90	0.52
18:f:499:THR:HA	18:f:502:LEU:CG	2.37	0.52
22:A:195:LEU:HD21	22:A:316:LYS:CD	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:235:LEU:HD12	23:B:235:LEU:O	2.09	0.52
24:E:257:LEU:C	24:E:257:LEU:HD23	2.34	0.52
25:F:202:ILE:HG22	25:F:203:VAL:N	2.25	0.52
25:F:253:GLY:C	25:F:290:ALA:HB3	2.35	0.52
26:K:211:ASN:C	26:K:211:ASN:OD1	2.52	0.52
27:U:108:TYR:CD2	27:U:134:VAL:HG21	2.45	0.52
27:U:213:PHE:C	27:U:248:ILE:HD11	2.35	0.52
27:U:342:LEU:HD21	27:U:785:PRO:HB3	1.90	0.52
27:U:465:LEU:CD2	27:U:496:LEU:HD11	2.40	0.52
27:U:532:MET:CB	27:U:552:ILE:HG22	2.36	0.52
2:D:403:TYR:CE1	2:D:407:ILE:CD1	2.93	0.52
2:D:418:LYS:NZ	4:H:80:GLY:HA3	2.24	0.52
3:G:16:PHE:N	4:H:21:GLN:OE1	2.40	0.52
4:H:120:GLU:HA	4:H:123:GLN:NE2	2.25	0.52
6:J:110:TYR:O	6:J:114:LEU:N	2.42	0.52
7:L:13:TRP:H	8:M:22:GLN:HE22	1.57	0.52
7:L:66:VAL:CG2	7:L:72:ILE:HG23	2.38	0.52
9:V:324:PHE:HD2	28:e:19:PHE:CE2	2.26	0.52
10:W:289:ARG:HB3	10:W:289:ARG:CZ	2.39	0.52
10:W:373:ILE:HG22	10:W:415:PHE:CE1	2.44	0.52
11:X:76:PHE:O	11:X:79:SER:OG	2.25	0.52
13:Z:202:ASN:HB2	14:a:360:VAL:HG13	1.92	0.52
14:a:13:ASN:HA	14:a:18:GLN:OE1	2.10	0.52
14:a:56:LEU:O	14:a:60:TYR:N	2.25	0.52
15:b:16:MET:HE3	15:b:25:ARG:HB2	1.91	0.52
15:b:142:ASN:O	15:b:173:VAL:HG12	2.09	0.52
16:c:167:MET:N	16:c:167:MET:SD	2.82	0.52
18:f:241:PRO:CB	27:U:835:ILE:HG21	2.40	0.52
18:f:316:ASP:HA	18:f:319:GLU:HG2	1.91	0.52
18:f:322:SER:HB2	18:f:456:ARG:O	2.10	0.52
18:f:460:ASP:HB2	19:g:133:LYS:HD2	1.91	0.52
18:f:564:LEU:HA	18:f:567:LEU:CD2	2.36	0.52
18:f:566:HIS:CB	18:f:573:ILE:HD11	2.40	0.52
19:g:87:VAL:CG2	19:g:155:VAL:HG23	2.39	0.52
20:u:126:LEU:HD13	20:u:175:VAL:HG21	1.91	0.52
22:A:54:GLN:HE22	22:A:58:LYS:CD	2.23	0.52
22:A:433:ASN:ND2	26:K:64:ILE:HG23	2.23	0.52
23:B:125:THR:CG2	23:B:126:SER:N	2.73	0.52
25:F:183:GLU:OE1	25:F:183:GLU:N	2.42	0.52
25:F:193:LYS:HB2	25:F:193:LYS:NZ	2.24	0.52
25:F:391:PHE:HD1	25:F:395:GLN:HB3	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:70:ILE:HD11	26:K:89:ILE:CD1	2.40	0.52
27:U:369:THR:N	27:U:731:ILE:HG21	2.25	0.52
27:U:560:MET:O	27:U:561:GLU:HG3	2.09	0.52
27:U:560:MET:SD	27:U:593:SER:HB2	2.49	0.52
27:U:805:ASN:HA	27:U:874:ASN:HD22	1.73	0.52
5:I:5:TYR:HE2	6:J:4:ASP:OD1	1.92	0.52
5:I:32:GLY:HA2	5:I:50:ARG:HD2	1.90	0.52
9:V:266:GLN:NE2	27:U:37:GLU:OE2	2.41	0.52
10:W:144:ARG:HB2	10:W:144:ARG:NH1	2.24	0.52
11:X:140:THR:CG2	11:X:140:THR:O	2.58	0.52
12:Y:319:MET:CE	12:Y:330:ILE:HG13	2.39	0.52
13:Z:216:ALA:HB1	14:a:347:LYS:CE	2.39	0.52
14:a:60:TYR:O	14:a:64:ILE:HB	2.09	0.52
14:a:274:LEU:HD23	14:a:274:LEU:C	2.34	0.52
15:b:7:MET:HA	15:b:7:MET:HE2	1.91	0.52
15:b:97:LEU:HD22	15:b:109:ILE:HD11	1.88	0.52
16:c:174:PRO:O	16:c:176:GLN:NE2	2.43	0.52
18:f:460:ASP:CB	19:g:133:LYS:HB3	2.36	0.52
18:f:683:GLU:HG2	18:f:686:LEU:HD12	1.91	0.52
18:f:707:LEU:HG	18:f:732:VAL:HG11	1.91	0.52
18:f:813:LYS:N	18:f:813:LYS:HD3	2.23	0.52
19:g:158:LEU:HB3	19:g:165:ALA:HB3	1.92	0.52
22:A:274:PHE:CD2	22:A:319:MET:HE3	2.45	0.52
22:A:339:ARG:HG3	22:A:339:ARG:NH1	2.23	0.52
25:F:151:VAL:HG12	25:F:163:THR:HA	1.92	0.52
25:F:173:LYS:HA	25:F:274:LEU:HD21	1.92	0.52
25:F:313:LEU:O	25:F:313:LEU:HD23	2.10	0.52
26:K:91:LYS:NZ	26:K:95:GLU:HG3	2.22	0.52
26:K:186:HIS:CE1	26:K:189:MET:SD	3.02	0.52
27:U:619:VAL:HG12	27:U:651:GLY:C	2.34	0.52
27:U:796:LYS:O	27:U:797:MET:HE2	2.10	0.52
1:C:62:GLU:OE2	2:D:117:SER:OG	2.27	0.52
2:D:45:LYS:O	2:D:49:GLN:HG2	2.09	0.52
3:G:87:SER:HA	3:G:136:CYS:SG	2.50	0.52
5:I:111:VAL:HG21	5:I:148:TYR:CD2	2.45	0.52
5:I:173:SER:O	5:I:176:LYS:HB2	2.10	0.52
6:J:129:ILE:HG13	6:J:129:ILE:O	2.08	0.52
7:L:56:LEU:HD11	26:K:167:ALA:HB3	1.92	0.52
8:M:52:LEU:HD23	8:M:209:PHE:HB2	1.92	0.52
9:V:407:VAL:HG11	9:V:441:ALA:CB	2.40	0.52
10:W:287:VAL:HG13	10:W:306:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:368:MET:HA	11:X:373:LYS:HG3	1.92	0.52
12:Y:26:LEU:HG	12:Y:37:VAL:HG11	1.90	0.52
13:Z:201:LEU:HG	14:a:360:VAL:HG21	1.92	0.52
13:Z:216:ALA:HB1	14:a:347:LYS:HZ3	1.75	0.52
14:a:28:LEU:CD1	14:a:33:LEU:HD21	2.37	0.52
17:d:109:LEU:HD22	17:d:158:ARG:HB2	1.91	0.52
18:f:893:ILE:HD12	18:f:893:ILE:H	1.74	0.52
19:g:112:LEU:HB3	19:g:138:LEU:CD2	2.33	0.52
20:u:229:GLY:C	20:u:230:ILE:HD13	2.34	0.52
23:B:93:GLU:HG3	23:B:94:GLU:HG3	1.92	0.52
23:B:268:ARG:HG2	23:B:315:GLN:NE2	2.25	0.52
27:U:21:GLU:CD	27:U:56:SER:HB2	2.34	0.52
27:U:52:GLU:HA	27:U:57:ARG:NE	2.24	0.52
27:U:204:ILE:HA	27:U:207:ASN:ND2	2.21	0.52
27:U:341:PHE:CE2	27:U:787:CYS:CB	2.93	0.52
27:U:419:ALA:CB	27:U:449:ILE:HG21	2.40	0.52
27:U:748:LEU:HB3	27:U:760:VAL:HG22	1.90	0.52
1:C:223:PHE:HA	21:v:17:UNK:O	2.10	0.52
2:D:40:LEU:HD12	2:D:40:LEU:O	2.10	0.52
3:G:32:ILE:CD1	3:G:137:CYS:SG	2.98	0.52
3:G:132:ARG:HG2	3:G:133:PRO:HD2	1.92	0.52
5:I:232:GLU:O	5:I:235:GLN:HG3	2.09	0.52
7:L:189:LYS:HE3	7:L:235:GLY:O	2.10	0.52
9:V:295:ILE:O	9:V:299:GLN:HG2	2.10	0.52
10:W:109:CYS:HA	10:W:112:VAL:CB	2.40	0.52
10:W:191:ARG:HG2	10:W:191:ARG:NH1	2.22	0.52
13:Z:16:LEU:CD2	13:Z:162:ILE:HD12	2.40	0.52
13:Z:211:TYR:O	13:Z:215:VAL:HG23	2.09	0.52
14:a:74:LEU:O	14:a:78:GLU:HB2	2.09	0.52
14:a:232:TRP:CZ2	14:a:257:GLN:HB2	2.45	0.52
17:d:122:VAL:O	17:d:126:LEU:N	2.32	0.52
18:f:105:LYS:HG3	18:f:106:LEU:N	2.24	0.52
18:f:231:LEU:CD2	18:f:853:VAL:HG22	2.40	0.52
18:f:711:SER:HB2	18:f:729:MET:CE	2.40	0.52
19:g:111:GLU:O	19:g:115:LYS:N	2.42	0.52
22:A:277:ILE:HG22	22:A:321:THR:HB	1.91	0.52
24:E:277:MET:SD	24:E:295:LEU:HD13	2.25	0.52
27:U:54:PHE:HB3	27:U:57:ARG:CG	2.39	0.52
27:U:489:ALA:CA	27:U:520:MET:HE1	2.39	0.52
27:U:543:LYS:HE3	27:U:772:TRP:CZ3	2.45	0.52
1:C:83:LYS:O	1:C:84:LYS:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:86:LEU:CD1	23:B:163:LEU:HD21	2.40	0.52
2:D:167:ILE:HG13	2:D:174:LYS:HD2	1.91	0.52
2:D:378:ILE:HG12	2:D:406:VAL:HB	1.91	0.52
6:J:43:LEU:HD12	6:J:72:ALA:HB2	1.91	0.52
10:W:122:LEU:HA	10:W:125:ILE:CG1	2.40	0.52
10:W:209:ILE:HD11	10:W:214:PHE:CE1	2.45	0.52
10:W:442:THR:OG1	13:Z:229:GLN:OE1	2.17	0.52
11:X:418:ALA:HB2	13:Z:276:ILE:CD1	2.40	0.52
12:Y:49:ASN:C	12:Y:73:MET:HE2	2.35	0.52
12:Y:202:LEU:CD1	12:Y:231:LEU:HD11	2.38	0.52
12:Y:259:TYR:CE2	12:Y:278:VAL:HG21	2.44	0.52
13:Z:84:LYS:HD2	16:c:76:PRO:HG3	1.92	0.52
13:Z:101:LEU:HD21	13:Z:123:ILE:HD11	1.92	0.52
14:a:42:LEU:O	14:a:46:GLN:HB2	2.10	0.52
14:a:135:ILE:HD13	14:a:155:PHE:CD1	2.45	0.52
18:f:200:ALA:HB1	18:f:203:GLU:OE1	2.10	0.52
18:f:246:SER:O	18:f:250:ARG:HG2	2.09	0.52
18:f:342:PRO:HB3	18:f:387:GLN:O	2.10	0.52
18:f:833:PHE:HD1	18:f:839:PRO:CA	2.23	0.52
20:u:118:ASP:O	20:u:119:ILE:HG13	2.09	0.52
22:A:23:ARG:HH11	22:A:23:ARG:HG3	1.75	0.52
22:A:125:LEU:HB3	22:A:129:VAL:HG11	1.91	0.52
23:B:364:ILE:HD11	29:B:501:ATP:N6	2.25	0.52
24:E:40:TYR:O	24:E:44:GLU:HG2	2.09	0.52
24:E:325:GLU:O	24:E:364:GLN:NE2	2.43	0.52
26:K:9:ASP:CB	26:K:22:PHE:HB3	2.40	0.52
26:K:103:TYR:O	26:K:105:GLU:HG2	2.09	0.52
26:K:184:VAL:HG11	26:K:197:SER:HB3	1.92	0.52
27:U:250:PHE:HE1	27:U:328:ILE:CG2	2.23	0.52
27:U:341:PHE:CD1	27:U:341:PHE:C	2.87	0.52
1:C:85:VAL:HG11	1:C:108:VAL:HG11	1.92	0.52
1:C:151:ILE:HD11	1:C:202:ALA:HB2	1.92	0.52
2:D:252:ARG:HG2	2:D:252:ARG:HH11	1.75	0.52
2:D:380:GLN:HE22	24:E:165:ILE:H	1.58	0.52
5:I:24:ALA:O	5:I:27:ALA:HB3	2.10	0.52
9:V:114:TYR:HA	9:V:117:VAL:HG22	1.92	0.52
9:V:240:LEU:CD1	27:U:69:TYR:HE1	2.22	0.52
9:V:329:HIS:CE1	9:V:347:GLN:HG2	2.44	0.52
9:V:362:LEU:N	9:V:362:LEU:HD23	2.25	0.52
9:V:462:GLU:H	9:V:462:GLU:CD	2.18	0.52
9:V:479:ARG:HH22	12:Y:370:ILE:CD1	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:34:LEU:HA	10:W:37:GLU:OE2	2.09	0.52
10:W:122:LEU:HB3	10:W:123:ARG:HH21	1.75	0.52
10:W:274:VAL:HG22	10:W:287:VAL:CG2	2.40	0.52
11:X:57:LEU:HD22	11:X:66:LEU:CD1	2.40	0.52
11:X:328:ASP:OD1	11:X:364:LYS:HE2	2.10	0.52
11:X:397:TYR:CZ	13:Z:258:VAL:HG21	2.44	0.52
13:Z:267:ARG:NH1	17:d:346:LEU:HD23	2.25	0.52
14:a:83:VAL:O	14:a:87:MET:HG2	2.10	0.52
14:a:131:THR:HA	14:a:134:THR:HG23	1.92	0.52
15:b:23:PRO:HG2	15:b:27:GLN:CG	2.39	0.52
15:b:127:LEU:HD23	15:b:130:ARG:NH2	2.11	0.52
16:c:58:LEU:HD21	16:c:96:LEU:HD21	1.91	0.52
17:d:161:ILE:O	17:d:165:GLU:HG3	2.09	0.52
18:f:56:LEU:HD12	18:f:99:LEU:CD2	2.37	0.52
18:f:276:GLU:OE1	18:f:276:GLU:N	2.37	0.52
18:f:316:ASP:HA	18:f:319:GLU:HG3	1.91	0.52
18:f:438:ASP:HB2	18:f:441:LYS:HE3	1.91	0.52
19:g:89:LEU:CD1	19:g:99:ASN:HD22	2.14	0.52
19:g:128:LYS:H	19:g:158:LEU:HD13	1.74	0.52
22:A:59:ILE:HD13	23:B:79:ILE:HD12	1.91	0.52
23:B:395:ILE:O	23:B:398:ILE:HG23	2.10	0.52
25:F:181:PRO:HD2	25:F:238:ARG:CD	2.39	0.52
25:F:226:TYR:HE2	25:F:351:LYS:HE3	1.74	0.52
25:F:254:PRO:HD3	25:F:287:GLU:CB	2.37	0.52
26:K:51:GLU:OE2	26:K:206:MET:HG2	2.10	0.52
27:U:115:ASN:HB3	27:U:123:LYS:CD	2.38	0.52
27:U:549:ALA:HA	27:U:581:SER:CB	2.37	0.52
27:U:803:LYS:HE3	27:U:875:PHE:CD1	2.45	0.52
1:C:90:HIS:HB3	1:C:91:PRO:HD3	1.91	0.51
1:C:199:LEU:HD13	1:C:317:PHE:HZ	1.74	0.51
2:D:178:ARG:HE	2:D:182:GLU:CD	2.18	0.51
3:G:94:ALA:HB2	3:G:118:ILE:CD1	2.26	0.51
4:H:103:GLU:HG3	4:H:104:PRO:HD2	1.91	0.51
7:L:46:LEU:HD23	7:L:135:ALA:HB2	1.93	0.51
7:L:154:PHE:HB3	8:M:58:TYR:CD2	2.45	0.51
8:M:21:PHE:O	8:M:25:TYR:HD1	1.93	0.51
8:M:63:ASN:HB2	8:M:81:LEU:CD2	2.40	0.51
8:M:65:ARG:HA	8:M:67:PHE:HE1	1.74	0.51
8:M:216:VAL:HG13	8:M:224:HIS:CD2	2.45	0.51
9:V:61:GLU:O	9:V:64:GLN:HB3	2.10	0.51
9:V:65:ARG:HA	9:V:68:ASP:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:62:GLN:CB	11:X:65:GLU:HB2	2.39	0.51
11:X:394:ASP:OD2	12:Y:362:LYS:HG2	2.11	0.51
11:X:419:LYS:O	11:X:421:LEU:HG	2.10	0.51
12:Y:121:LEU:HD21	12:Y:156:LEU:HD21	1.93	0.51
14:a:28:LEU:HB3	14:a:33:LEU:CG	2.39	0.51
14:a:292:THR:HG22	14:a:294:GLU:H	1.75	0.51
17:d:92:THR:HA	17:d:95:TYR:CB	2.40	0.51
17:d:124:LEU:HD22	27:U:22:PHE:CD2	2.44	0.51
18:f:56:LEU:HD12	18:f:99:LEU:HD11	1.92	0.51
18:f:347:ASP:OD1	18:f:348:ILE:N	2.43	0.51
19:g:115:LYS:CE	19:g:142:LEU:HD22	2.40	0.51
25:F:289:ASP:OD2	25:F:332:THR:HG23	2.10	0.51
27:U:63:VAL:O	27:U:67:VAL:HG23	2.10	0.51
27:U:267:ASN:N	27:U:267:ASN:HD22	2.07	0.51
27:U:560:MET:HA	27:U:589:ALA:O	2.10	0.51
1:C:246:ILE:O	1:C:291:VAL:HA	2.09	0.51
2:D:116:LEU:HD23	2:D:119:ILE:HG13	1.92	0.51
6:J:51:ALA:O	6:J:52:LYS:HB3	2.10	0.51
9:V:65:ARG:HA	9:V:68:ASP:CG	2.35	0.51
9:V:131:LEU:HD23	9:V:131:LEU:H	1.75	0.51
9:V:336:GLU:OE1	9:V:343:PRO:HA	2.10	0.51
9:V:403:ILE:HG12	9:V:428:LEU:HD21	1.92	0.51
11:X:73:VAL:HG21	11:X:92:LEU:CD1	2.40	0.51
11:X:400:ALA:O	11:X:404:ILE:HG12	2.10	0.51
13:Z:58:PHE:HE2	13:Z:108:ILE:CD1	2.23	0.51
14:a:65:SER:O	14:a:68:GLU:HG2	2.10	0.51
15:b:91:ARG:NH1	15:b:127:LEU:HD21	2.26	0.51
15:b:122:LYS:O	15:b:125:VAL:HG22	2.10	0.51
18:f:391:LEU:O	18:f:414:LEU:HD21	2.11	0.51
18:f:489:TYR:CE2	18:f:497:VAL:HG21	2.46	0.51
19:g:109:GLY:N	19:g:140:LYS:O	2.40	0.51
19:g:140:LYS:HB2	19:g:145:GLN:CB	2.34	0.51
22:A:365:GLU:CD	22:A:405:THR:HG22	2.35	0.51
23:B:246:THR:HG22	23:B:279:PRO:O	2.10	0.51
25:F:266:LYS:O	25:F:270:ASP:HB2	2.11	0.51
25:F:321:GLN:HG2	25:F:322:PRO:O	2.09	0.51
26:K:166:ASP:HB3	26:K:185:TYR:OH	2.09	0.51
27:U:46:GLU:O	27:U:50:GLU:HG2	2.10	0.51
27:U:249:CYS:SG	27:U:329:LEU:HG	2.51	0.51
27:U:637:VAL:O	27:U:637:VAL:HG12	2.11	0.51
27:U:672:LEU:HD11	27:U:690:ALA:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:ARG:NH1	27:U:639:LEU:HD23	2.26	0.51
1:C:147:THR:HG22	1:C:150:MET:HG3	1.91	0.51
2:D:236:VAL:HG21	24:E:255:ARG:HD3	1.93	0.51
2:D:345:PHE:HB3	2:D:360:LEU:HD13	1.93	0.51
4:H:74:LEU:HD13	4:H:134:LEU:HD13	1.93	0.51
5:I:34:CYS:HA	5:I:46:ALA:O	2.09	0.51
5:I:138:GLY:O	5:I:145:PHE:HA	2.10	0.51
8:M:31:GLU:O	8:M:167:LYS:HG3	2.10	0.51
8:M:140:TYR:CD2	8:M:217:GLY:HA2	2.46	0.51
10:W:248:ARG:HG2	10:W:270:VAL:HG21	1.91	0.51
10:W:317:TRP:HE3	10:W:358:VAL:HG11	1.75	0.51
10:W:422:ASN:O	10:W:426:ASN:HB2	2.10	0.51
12:Y:228:MET:SD	12:Y:260:LEU:HA	2.51	0.51
12:Y:228:MET:C	12:Y:299:MET:HE3	2.35	0.51
12:Y:321:GLU:OE1	12:Y:321:GLU:HA	2.09	0.51
15:b:131:LEU:HD13	15:b:134:GLU:OE2	2.11	0.51
16:c:87:VAL:HG11	20:u:278:PHE:CE2	2.46	0.51
18:f:115:PRO:HB3	18:f:119:LYS:NZ	2.25	0.51
18:f:201:GLU:HA	18:f:204:ALA:HB3	1.92	0.51
18:f:465:LEU:HD11	19:g:173:GLU:HG2	1.91	0.51
18:f:490:ALA:HA	18:f:524:MET:O	2.10	0.51
18:f:766:GLN:O	18:f:769:THR:HG22	2.11	0.51
22:A:209:PRO:CD	25:F:405:MET:HE3	2.40	0.51
22:A:291:GLY:O	22:A:294:GLU:HB3	2.10	0.51
23:B:194:ILE:HA	23:B:197:ILE:CG2	2.41	0.51
25:F:168:TYR:CD2	25:F:274:LEU:HD13	2.45	0.51
25:F:191:LEU:HD21	25:F:355:PRO:HD2	1.93	0.51
25:F:406:ILE:HD13	25:F:422:GLU:CB	2.36	0.51
26:K:195:ILE:HD12	26:K:217:LEU:HD13	1.91	0.51
27:U:236:LEU:HD23	27:U:245:ALA:CA	2.41	0.51
27:U:254:GLU:OE1	27:U:751:ARG:HD3	2.09	0.51
27:U:678:ASP:OD2	27:U:683:VAL:HG21	2.09	0.51
27:U:804:SER:C	27:U:874:ASN:HB2	2.35	0.51
3:G:27:TYR:CD2	8:M:16:PRO:HA	2.45	0.51
5:I:44:LEU:HB3	5:I:215:THR:HG22	1.91	0.51
6:J:31:THR:HG22	6:J:163:ARG:O	2.10	0.51
7:L:37:GLY:O	7:L:158:ALA:HA	2.09	0.51
8:M:37:ILE:HG22	8:M:164:ALA:CB	2.41	0.51
9:V:169:LEU:HD11	9:V:213:TYR:CD2	2.44	0.51
9:V:201:ARG:NH1	9:V:204:ASP:OD2	2.44	0.51
9:V:340:GLY:HA2	9:V:405:THR:OG1	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:486:ILE:HD13	9:V:489:MET:CE	2.41	0.51
11:X:167:VAL:HG22	11:X:196:THR:HG23	1.91	0.51
11:X:393:VAL:HG22	11:X:393:VAL:O	2.10	0.51
14:a:8:LEU:HD11	14:a:26:GLU:CD	2.35	0.51
15:b:17:ARG:HG2	15:b:80:PRO:CG	2.40	0.51
18:f:45:LEU:HB2	18:f:50:LYS:CE	2.41	0.51
18:f:135:GLY:O	18:f:139:CYS:N	2.36	0.51
18:f:213:GLN:HE21	18:f:215:ASP:HB3	1.76	0.51
19:g:126:TYR:CA	19:g:161:SER:HA	2.40	0.51
22:A:79:ASP:OD1	23:B:137:SER:HB3	2.10	0.51
23:B:184:TYR:CD1	23:B:238:ALA:HB1	2.45	0.51
23:B:187:ILE:HD12	23:B:194:ILE:HD11	1.92	0.51
23:B:202:GLU:OE2	23:B:242:GLN:NE2	2.43	0.51
24:E:215:ILE:HD13	24:E:260:LEU:HB2	1.93	0.51
25:F:188:ILE:CG1	25:F:235:LEU:HG	2.41	0.51
25:F:285:ILE:O	25:F:330:ALA:HA	2.10	0.51
27:U:108:TYR:CG	27:U:134:VAL:HG21	2.45	0.51
27:U:228:ALA:HA	27:U:231:ASP:OD2	2.10	0.51
27:U:352:ILE:CG2	27:U:376:MET:HE1	2.41	0.51
27:U:393:LEU:O	27:U:393:LEU:HD12	2.10	0.51
27:U:763:VAL:O	27:U:767:THR:HG23	2.10	0.51
27:U:788:VAL:HG13	27:U:788:VAL:O	2.10	0.51
27:U:899:ARG:NH2	27:U:918:SER:HB2	2.25	0.51
1:C:71:SER:OG	2:D:112:TYR:HD2	1.94	0.51
1:C:292:ILE:O	1:C:292:ILE:CG2	2.56	0.51
1:C:307:ARG:HH12	1:C:309:GLY:HA3	1.75	0.51
3:G:141:ILE:HD11	3:G:227:PHE:CE1	2.39	0.51
3:G:200:THR:HA	3:G:203:SER:OG	2.11	0.51
4:H:29:VAL:HG22	4:H:133:SER:H	1.75	0.51
4:H:35:SER:HB2	4:H:163:MET:CE	2.38	0.51
7:L:34:ALA:HB2	7:L:163:ALA:O	2.11	0.51
10:W:24:VAL:HG21	10:W:65:ARG:HB2	1.92	0.51
11:X:401:LEU:HD21	12:Y:369:THR:OG1	2.09	0.51
13:Z:43:TRP:HE3	13:Z:44:GLN:H	1.59	0.51
14:a:5:PRO:O	14:a:9:GLN:HG2	2.10	0.51
14:a:162:TYR:CD1	14:a:165:THR:HG21	2.45	0.51
18:f:169:GLU:HG3	18:f:184:LEU:HD11	1.93	0.51
19:g:110:ARG:O	19:g:113:ARG:HD3	2.10	0.51
22:A:103:ASN:HA	22:A:109:PRO:HA	1.92	0.51
25:F:176:GLU:HG3	25:F:247:THR:CG2	2.40	0.51
25:F:206:MET:HG3	25:F:325:GLN:NE2	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:136:LYS:NZ	27:U:140:ARG:HD2	2.26	0.51
27:U:846:LYS:HA	27:U:849:LYS:HD2	1.92	0.51
2:D:182:GLU:HG2	2:D:183:LEU:N	2.25	0.51
8:M:39:ILE:HD11	8:M:176:ILE:HG23	1.93	0.51
9:V:212:TYR:HB2	9:V:253:LEU:HD21	1.91	0.51
10:W:323:ASP:HB3	10:W:324:TYR:CD1	2.44	0.51
11:X:182:ASN:CG	11:X:185:LYS:HB2	2.35	0.51
12:Y:187:TYR:O	12:Y:191:ILE:HG23	2.10	0.51
13:Z:69:PHE:CE1	15:b:60:VAL:HG11	2.46	0.51
13:Z:165:GLU:HG2	13:Z:166:GLU:N	2.24	0.51
14:a:122:LYS:HZ2	14:a:131:THR:HB	1.75	0.51
14:a:122:LYS:HA	14:a:125:ILE:O	2.10	0.51
14:a:315:LEU:HD13	14:a:320:VAL:HG12	1.91	0.51
18:f:60:VAL:O	18:f:105:LYS:NZ	2.38	0.51
18:f:92:VAL:HG23	22:A:32:LEU:HB3	1.93	0.51
18:f:186:THR:O	18:f:189:LYS:HB2	2.10	0.51
18:f:367:SER:HB3	18:f:370:MET:HG2	1.91	0.51
18:f:466:LEU:HD12	18:f:481:SER:CA	2.37	0.51
19:g:137:GLN:HB2	19:g:145:GLN:HB2	1.92	0.51
19:g:140:LYS:HE3	19:g:140:LYS:HA	1.93	0.51
22:A:111:TYR:CE1	22:A:125:LEU:HD21	2.45	0.51
22:A:364:VAL:HG22	22:A:368:ILE:HG13	1.91	0.51
24:E:294:ARG:O	24:E:295:LEU:HB2	2.10	0.51
24:E:322:LYS:CB	24:E:361:PHE:HD2	2.23	0.51
26:K:190:THR:HG22	26:K:193:GLU:HB2	1.91	0.51
26:K:206:MET:HE1	26:K:210:LEU:HD13	1.93	0.51
27:U:533:VAL:O	27:U:536:ALA:N	2.43	0.51
28:e:60:LEU:O	28:e:64:GLY:N	2.44	0.51
2:D:60:TYR:HD1	27:U:607:VAL:HG21	1.74	0.51
2:D:134:LYS:HE3	24:E:105:LEU:HD12	1.93	0.51
2:D:225:ALA:HB1	2:D:260:ALA:HA	1.93	0.51
4:H:196:LYS:CA	4:H:203:MET:HE1	2.38	0.51
7:L:85:CYS:O	7:L:89:ARG:HG3	2.10	0.51
7:L:193:ARG:HA	7:L:196:ARG:CG	2.41	0.51
8:M:49:VAL:CG1	8:M:66:LEU:HD22	2.40	0.51
9:V:182:LYS:O	9:V:186:LYS:N	2.35	0.51
9:V:466:ILE:HG13	9:V:471:GLU:HB3	1.93	0.51
12:Y:122:THR:HA	12:Y:125:ARG:NH1	2.26	0.51
13:Z:201:LEU:HD13	16:c:225:TRP:CZ3	2.46	0.51
13:Z:234:PHE:CZ	14:a:352:ARG:HB2	2.46	0.51
14:a:160:SER:O	14:a:163:TYR:HD2	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:245:VAL:CG1	14:a:247:ARG:HD2	2.40	0.51
14:a:374:ILE:O	14:a:376:THR:HG23	2.11	0.51
15:b:48:ASN:HB2	15:b:64:LEU:CD2	2.40	0.51
17:d:108:ASN:HB3	17:d:111:LYS:HB2	1.92	0.51
18:f:314:TYR:O	18:f:318:THR:N	2.32	0.51
23:B:114:GLU:OE1	23:B:115:ILE:C	2.53	0.51
24:E:50:LEU:HD22	25:F:83:ASN:HB3	1.93	0.51
24:E:81:VAL:HB	24:E:105:LEU:O	2.10	0.51
24:E:92:LEU:HA	24:E:96:THR:HG21	1.92	0.51
24:E:140:GLU:O	24:E:144:GLU:HG3	2.11	0.51
24:E:175:PRO:HB2	24:E:303:LEU:HD13	1.93	0.51
25:F:181:PRO:HG2	25:F:238:ARG:CZ	2.41	0.51
26:K:109:VAL:HG22	26:K:154:PHE:CD2	2.45	0.51
26:K:233:GLU:N	26:K:233:GLU:OE2	2.43	0.51
1:C:96:VAL:HG21	23:B:151:LEU:HD21	1.92	0.51
2:D:55:GLU:OE1	2:D:55:GLU:HA	2.10	0.51
3:G:32:ILE:HD11	3:G:156:PRO:HD3	1.93	0.51
3:G:49:VAL:HG21	3:G:195:VAL:CG2	2.40	0.51
3:G:143:ILE:CD1	3:G:220:VAL:HG13	2.41	0.51
3:G:173:THR:OG1	3:G:174:GLU:OE1	2.22	0.51
5:I:34:CYS:O	5:I:163:CYS:HA	2.11	0.51
8:M:98:PHE:CE2	8:M:102:PHE:HD2	2.29	0.51
9:V:447:ILE:CG2	9:V:448:GLU:N	2.74	0.51
11:X:417:LYS:O	13:Z:280:ILE:HD11	2.11	0.51
13:Z:156:GLU:HG2	13:Z:157:HIS:N	2.25	0.51
13:Z:175:LEU:O	13:Z:175:LEU:HD23	2.11	0.51
15:b:73:SER:HA	25:F:61:ARG:CD	2.39	0.51
18:f:379:GLY:HA3	18:f:416:MET:CE	2.38	0.51
18:f:785:ARG:HD3	18:f:785:ARG:N	2.23	0.51
23:B:54:PRO:HD3	23:B:60:LEU:HG	1.92	0.51
23:B:223:ILE:CG2	23:B:347:ILE:HG21	2.41	0.51
24:E:327:ASP:O	24:E:328:TYR:C	2.53	0.51
24:E:349:GLU:CD	24:E:374:VAL:HG22	2.36	0.51
24:E:364:GLN:C	24:E:366:ASP:N	2.68	0.51
26:K:39:GLY:HA3	26:K:153:LEU:HD21	1.93	0.51
27:U:95:GLU:O	27:U:99:THR:HG22	2.11	0.51
2:D:358:VAL:HG13	2:D:358:VAL:O	2.11	0.51
5:I:196:VAL:O	5:I:200:THR:OG1	2.27	0.51
9:V:76:LYS:HE2	9:V:147:PHE:CE1	2.46	0.51
9:V:214:HIS:HA	9:V:217:VAL:HG22	1.92	0.51
9:V:479:ARG:HH22	12:Y:370:ILE:HD12	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:102:ALA:O	10:W:106:GLN:NE2	2.44	0.51
11:X:57:LEU:HD22	11:X:66:LEU:CB	2.39	0.51
11:X:384:VAL:HG23	11:X:386:ILE:HD11	1.93	0.51
13:Z:41:GLY:HA3	13:Z:49:ASP:O	2.10	0.51
13:Z:145:HIS:O	13:Z:146:ASP:C	2.53	0.51
13:Z:177:ARG:HG2	13:Z:177:ARG:HH11	1.75	0.51
13:Z:243:GLN:OE1	17:d:328:THR:HA	2.11	0.51
14:a:94:LEU:HA	14:a:97:LEU:HD21	1.93	0.51
14:a:109:GLU:HG3	14:a:112:ILE:HG21	1.91	0.51
15:b:25:ARG:NH1	15:b:144:GLY:HA3	2.26	0.51
15:b:25:ARG:O	15:b:28:ALA:HB3	2.09	0.51
17:d:147:ILE:O	17:d:150:ILE:HB	2.09	0.51
17:d:197:LEU:HD22	17:d:259:PHE:HB3	1.93	0.51
18:f:110:TYR:CZ	18:f:119:LYS:HG3	2.46	0.51
18:f:408:LEU:HD12	18:f:443:GLY:CA	2.41	0.51
18:f:447:ALA:O	18:f:450:ILE:HG22	2.11	0.51
18:f:499:THR:CA	18:f:502:LEU:HG	2.38	0.51
22:A:182:GLU:O	22:A:185:GLU:HG2	2.11	0.51
22:A:238:ILE:HB	22:A:272:ILE:HD12	1.92	0.51
22:A:297:ARG:CD	25:F:257:VAL:HG21	2.41	0.51
22:A:328:ASP:OD1	22:A:329:PRO:HD2	2.11	0.51
22:A:368:ILE:HD13	22:A:406:GLU:HB2	1.92	0.51
22:A:402:LYS:C	23:B:214:MET:HE1	2.35	0.51
24:E:266:GLY:O	24:E:267:PHE:C	2.54	0.51
25:F:232:GLY:H	29:F:501:ATP:PB	2.33	0.51
25:F:341:ALA:HA	25:F:344:ARG:HG3	1.93	0.51
26:K:33:LEU:H	26:K:33:LEU:HD12	1.75	0.51
27:U:59:PHE:O	27:U:63:VAL:HG23	2.11	0.51
27:U:513:GLY:HA3	27:U:548:LEU:HD22	1.93	0.51
1:C:273:MET:HE2	1:C:302:ASP:OD2	2.11	0.51
1:C:305:LEU:O	1:C:306:LEU:HD23	2.11	0.51
2:D:85:ILE:HD11	24:E:68:LYS:HG2	1.93	0.51
7:L:108:LEU:HD12	7:L:108:LEU:O	2.10	0.51
7:L:155:ASP:H	8:M:62:SER:HB2	1.76	0.51
8:M:46:VAL:CG1	8:M:193:VAL:HG21	2.41	0.51
9:V:86:VAL:HG13	9:V:200:ARG:NH1	2.24	0.51
9:V:196:SER:CB	9:V:234:ARG:HH22	2.24	0.51
9:V:447:ILE:HG22	9:V:448:GLU:H	1.76	0.51
10:W:199:TYR:O	10:W:203:GLN:HG3	2.11	0.51
11:X:191:THR:O	11:X:195:THR:HB	2.11	0.51
14:a:234:ILE:O	14:a:238:TYR:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:181:ASP:HA	15:b:184:ILE:HG12	1.92	0.51
17:d:275:ILE:CD1	17:d:291:LEU:HG	2.40	0.51
18:f:131:MET:HE1	22:A:36:TYR:HE1	1.75	0.51
18:f:695:ALA:O	18:f:699:VAL:HG22	2.11	0.51
18:f:814:SER:O	18:f:814:SER:OG	2.27	0.51
25:F:168:TYR:CE2	25:F:274:LEU:HA	2.46	0.51
25:F:180:ARG:O	25:F:182:THR:N	2.43	0.51
27:U:151:ILE:O	27:U:154:ALA:HB3	2.11	0.51
27:U:529:ILE:HD11	27:U:566:LEU:CD1	2.41	0.51
27:U:646:PRO:CB	27:U:680:VAL:HG21	2.41	0.51
27:U:698:GLN:HB3	27:U:702:THR:OG1	2.10	0.51
27:U:797:MET:HE2	27:U:797:MET:CA	2.41	0.51
27:U:803:LYS:O	27:U:893:THR:N	2.34	0.51
27:U:807:LYS:HB2	27:U:808:PRO:CD	2.32	0.51
1:C:43:ARG:NE	9:V:498:PRO:HB3	2.26	0.50
2:D:355:SER:HB2	2:D:393:ILE:HG22	1.92	0.50
4:H:203:MET:CG	4:H:208:ILE:HG13	2.42	0.50
7:L:43:HIS:CG	7:L:184:LEU:HD13	2.46	0.50
7:L:62:LYS:HE3	25:F:439:ALA:C	2.36	0.50
8:M:55:SER:N	8:M:58:TYR:HE1	2.09	0.50
8:M:141:SER:OG	8:M:144:ASP:HB2	2.10	0.50
9:V:65:ARG:HB3	9:V:65:ARG:NH1	2.26	0.50
10:W:407:ASP:CG	11:X:344:ARG:HD3	2.36	0.50
11:X:306:LEU:HD21	11:X:314:ARG:HH21	1.75	0.50
12:Y:15:PRO:HG3	12:Y:147:ILE:HD13	1.92	0.50
12:Y:134:LEU:HD21	12:Y:171:GLY:O	2.11	0.50
14:a:156:TYR:CD2	14:a:179:PHE:HB2	2.36	0.50
14:a:185:ILE:HG22	14:a:187:ASP:HB3	1.93	0.50
14:a:280:MET:HE1	14:a:299:SER:HB2	1.92	0.50
15:b:36:VAL:CA	15:b:188:ILE:HD11	2.41	0.50
17:d:152:ALA:HB1	17:d:191:LEU:HD22	1.92	0.50
17:d:195:ASN:O	17:d:199:LEU:HG	2.11	0.50
17:d:263:LEU:HD12	17:d:266:THR:HB	1.93	0.50
18:f:191:ILE:HD13	18:f:207:LEU:CD2	2.40	0.50
18:f:270:LEU:O	18:f:273:ASN:N	2.44	0.50
18:f:701:ASN:HB2	18:f:876:HIS:ND1	2.26	0.50
18:f:775:THR:O	18:f:776:LEU:HD23	2.11	0.50
23:B:285:ASP:OD1	23:B:286:GLU:N	2.44	0.50
24:E:108:MET:O	24:E:109:ARG:HB3	2.11	0.50
24:E:328:TYR:HA	24:E:331:ILE:HD12	1.93	0.50
24:E:352:MET:O	24:E:356:ARG:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:205:PRO:HB3	25:F:219:PRO:HB3	1.92	0.50
25:F:398:ALA:O	25:F:402:GLU:HB2	2.11	0.50
26:K:91:LYS:HZ3	26:K:95:GLU:CG	2.23	0.50
27:U:542:GLU:HA	27:U:545:LEU:HD12	1.92	0.50
27:U:665:ASN:C	27:U:667:GLU:H	2.19	0.50
1:C:49:ARG:HB2	2:D:61:ILE:HD11	1.93	0.50
4:H:222:THR:HG22	4:H:225:GLU:CD	2.36	0.50
4:H:222:THR:HG22	4:H:225:GLU:OE1	2.10	0.50
7:L:78:THR:HG22	25:F:439:ALA:HB3	1.93	0.50
9:V:165:ALA:CB	9:V:191:LEU:HD11	2.42	0.50
9:V:261:TYR:HB2	9:V:263:LEU:CD1	2.40	0.50
9:V:488:ASN:O	9:V:492:LYS:N	2.36	0.50
10:W:50:LEU:HA	10:W:53:GLN:CD	2.36	0.50
10:W:55:ARG:HH11	10:W:93:ARG:HB3	1.75	0.50
10:W:161:GLU:O	10:W:165:ILE:HG12	2.10	0.50
13:Z:190:ARG:HE	16:c:297:VAL:HG11	1.77	0.50
14:a:24:ARG:NH2	14:a:27:GLU:OE1	2.44	0.50
14:a:149:THR:HA	14:a:152:HIS:CE1	2.45	0.50
14:a:357:CYS:HA	14:a:360:VAL:HG12	1.93	0.50
18:f:92:VAL:HG23	22:A:32:LEU:CB	2.41	0.50
18:f:343:LYS:HG2	18:f:773:LYS:HE2	1.93	0.50
18:f:659:LEU:O	18:f:662:MET:HG2	2.10	0.50
18:f:679:LEU:CD2	18:f:687:ARG:HA	2.41	0.50
18:f:806:VAL:O	18:f:811:LEU:N	2.43	0.50
19:g:130:VAL:O	19:g:130:VAL:HG23	2.11	0.50
22:A:249:TYR:HD2	22:A:252:GLU:OE1	1.93	0.50
24:E:81:VAL:HG21	24:E:107:ILE:HG13	1.92	0.50
25:F:310:MET:HE3	25:F:342:LEU:CG	2.41	0.50
27:U:579:ARG:O	27:U:583:MET:HG2	2.10	0.50
27:U:755:THR:HG23	27:U:755:THR:O	2.11	0.50
27:U:902:PRO:CB	27:U:912:ILE:HD13	2.40	0.50
3:G:191:PHE:HE1	3:G:219:VAL:CG1	2.25	0.50
4:H:9:SER:HB3	4:H:12:THR:HG23	1.92	0.50
5:I:21:VAL:HG11	5:I:153:SER:HB2	1.93	0.50
10:W:115:ILE:O	10:W:121:LYS:HD2	2.10	0.50
10:W:435:LEU:CD1	13:Z:237:LEU:HD23	2.42	0.50
10:W:435:LEU:HD23	10:W:435:LEU:C	2.35	0.50
11:X:126:ARG:NH2	11:X:127:GLN:HE21	2.10	0.50
12:Y:189:VAL:HG13	12:Y:288:PHE:CE1	2.47	0.50
12:Y:356:THR:HG21	12:Y:358:ARG:HH12	1.77	0.50
13:Z:225:GLN:N	13:Z:227:ILE:HG22	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:97:LEU:HD13	14:a:114:CYS:CB	2.30	0.50
15:b:10:VAL:HA	15:b:112:PHE:HB2	1.94	0.50
17:d:130:PRO:HG3	27:U:3:THR:CG2	2.41	0.50
18:f:96:LEU:HD23	18:f:129:LEU:HA	1.90	0.50
18:f:846:VAL:HG22	18:f:880:ALA:CB	2.41	0.50
18:f:850:VAL:HG21	18:f:863:THR:CG2	2.41	0.50
19:g:165:ALA:O	19:g:169:PHE:HB3	2.11	0.50
23:B:222:VAL:HG23	23:B:224:LEU:HD11	1.94	0.50
23:B:223:ILE:HG22	23:B:350:LYS:HA	1.92	0.50
26:K:91:LYS:O	26:K:91:LYS:CD	2.58	0.50
27:U:96:TYR:O	27:U:100:ILE:HG12	2.10	0.50
27:U:138:PHE:CD1	27:U:162:VAL:HG21	2.46	0.50
27:U:206:MET:HA	27:U:206:MET:CE	2.29	0.50
27:U:797:MET:O	27:U:925:VAL:HG23	2.11	0.50
27:U:925:VAL:HG12	27:U:927:PRO:HD3	1.91	0.50
1:C:271:ARG:HG2	23:B:253:SER:OG	2.11	0.50
2:D:154:LEU:HD11	24:E:267:PHE:HE1	1.74	0.50
2:D:341:LYS:HG2	2:D:375:ILE:HD11	1.94	0.50
4:H:214:ASN:OD1	4:H:214:ASN:C	2.54	0.50
7:L:41:LYS:HB2	7:L:180:MET:O	2.12	0.50
7:L:200:PRO:HB2	7:L:202:GLU:CD	2.36	0.50
8:M:73:VAL:HA	8:M:139:SER:HB2	1.93	0.50
8:M:78:ALA:HB3	8:M:165:ILE:HG22	1.92	0.50
9:V:101:LEU:N	9:V:102:PRO:HD2	2.27	0.50
9:V:173:ILE:HG12	9:V:213:TYR:HE2	1.74	0.50
9:V:264:TYR:HE2	17:d:213:GLU:HG3	1.75	0.50
10:W:230:MET:CE	10:W:233:LEU:HB3	2.41	0.50
10:W:235:GLN:CA	10:W:243:ILE:HD11	2.37	0.50
11:X:173:GLU:O	11:X:176:THR:HG22	2.11	0.50
11:X:190:LEU:HD21	11:X:214:SER:CB	2.37	0.50
11:X:382:GLU:O	11:X:384:VAL:HG13	2.12	0.50
11:X:394:ASP:OD2	12:Y:362:LYS:HE2	2.12	0.50
12:Y:153:ASP:C	12:Y:153:ASP:OD1	2.54	0.50
13:Z:223:ASN:C	13:Z:225:GLN:H	2.20	0.50
14:a:101:ARG:HG3	14:a:111:VAL:HB	1.94	0.50
14:a:164:GLN:CG	14:a:164:GLN:O	2.59	0.50
18:f:217:LEU:HG	18:f:221:ILE:HD11	1.92	0.50
18:f:439:TYR:CE2	18:f:476:THR:HG21	2.46	0.50
18:f:535:THR:CG2	18:f:576:ILE:HD11	2.41	0.50
18:f:711:SER:N	18:f:729:MET:HE3	2.26	0.50
18:f:870:THR:HA	18:f:871:PRO:C	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:270:LEU:O	23:B:270:LEU:HD12	2.12	0.50
23:B:434:THR:HB	23:B:435:PRO:CD	2.39	0.50
25:F:365:ILE:HA	25:F:368:ILE:CD1	2.42	0.50
27:U:7:GLY:O	27:U:10:SER:HB2	2.12	0.50
27:U:41:SER:O	27:U:43:ASP:N	2.45	0.50
27:U:138:PHE:CE1	27:U:154:ALA:HA	2.47	0.50
27:U:228:ALA:O	27:U:232:ILE:HG12	2.11	0.50
1:C:232:ARG:O	1:C:236:VAL:HG23	2.11	0.50
3:G:93:ARG:HH12	3:G:97:GLU:HG2	1.77	0.50
4:H:65:VAL:HB	4:H:209:GLU:OE1	2.12	0.50
5:I:92:LEU:HD21	5:I:96:ARG:NH1	2.24	0.50
5:I:198:ASN:HB3	5:I:199:LYS:NZ	2.25	0.50
6:J:82:ILE:CG2	6:J:127:PHE:HE1	2.25	0.50
7:L:174:ARG:HG2	7:L:175:HIS:CD2	2.46	0.50
8:M:36:ALA:O	8:M:164:ALA:HA	2.11	0.50
8:M:216:VAL:HG13	8:M:224:HIS:HD2	1.76	0.50
10:W:249:ALA:O	10:W:253:THR:HG23	2.12	0.50
10:W:317:TRP:CZ2	10:W:355:LYS:HB2	2.47	0.50
10:W:340:VAL:O	10:W:350:ARG:HD2	2.12	0.50
10:W:372:ARG:NH2	14:a:327:VAL:HB	2.27	0.50
11:X:189:ALA:O	11:X:192:SER:HB2	2.12	0.50
11:X:270:LEU:H	11:X:270:LEU:HD12	1.76	0.50
11:X:290:VAL:O	11:X:293:ALA:HB3	2.10	0.50
13:Z:177:ARG:HH22	16:c:153:GLY:CA	2.24	0.50
14:a:281:THR:HA	14:a:284:ARG:CG	2.41	0.50
15:b:7:MET:HE1	15:b:64:LEU:HG	1.93	0.50
17:d:208:PHE:O	17:d:211:GLU:HB3	2.12	0.50
17:d:284:PHE:HB3	17:d:314:ASN:OD1	2.11	0.50
18:f:564:LEU:CD2	18:f:567:LEU:HD11	2.41	0.50
18:f:720:GLU:OE2	18:f:806:VAL:HG22	2.11	0.50
19:g:112:LEU:HD13	19:g:115:LYS:HE2	1.93	0.50
19:g:131:ILE:HA	19:g:153:ALA:CB	2.39	0.50
22:A:284:ARG:HA	22:A:296:GLN:NE2	2.26	0.50
22:A:286:ASP:HB2	25:F:337:ILE:HD11	1.93	0.50
22:A:372:LEU:HD11	22:A:376:LEU:HD11	1.92	0.50
23:B:224:LEU:CD1	23:B:328:ILE:HG23	2.42	0.50
24:E:326:ILE:HG23	24:E:364:GLN:OE1	2.12	0.50
25:F:188:ILE:CD1	25:F:236:LEU:HA	2.36	0.50
27:U:265:ILE:HG23	27:U:326:ILE:HG23	1.91	0.50
27:U:453:HIS:ND1	27:U:453:HIS:O	2.44	0.50
27:U:685:GLN:HE21	27:U:769:PHE:HZ	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:789:ILE:HA	27:U:880:ASN:O	2.12	0.50
1:C:404:LEU:O	5:I:80:THR:HG22	2.12	0.50
2:D:148:ASP:OD1	2:D:149:SER:N	2.43	0.50
6:J:43:LEU:HD23	6:J:209:ALA:O	2.12	0.50
7:L:70:ILE:HG21	7:L:108:LEU:HD23	1.94	0.50
7:L:183:ASN:ND2	7:L:186:GLU:HB2	2.26	0.50
9:V:334:VAL:HG13	9:V:395:ILE:HD13	1.91	0.50
9:V:443:ARG:HD3	17:d:274:CYS:SG	2.51	0.50
9:V:479:ARG:HG3	12:Y:377:LEU:CD1	2.42	0.50
10:W:40:LEU:CD2	10:W:79:GLU:HG3	2.41	0.50
10:W:196:VAL:HG12	10:W:196:VAL:O	2.12	0.50
11:X:47:GLU:HG2	11:X:80:ILE:HG21	1.93	0.50
11:X:412:ASP:O	11:X:415:TYR:HB2	2.11	0.50
12:Y:104:MET:HE1	12:Y:130:LYS:HE3	1.93	0.50
12:Y:186:LEU:CD2	12:Y:287:LEU:HD22	2.41	0.50
12:Y:376:LEU:CD2	13:Z:265:LEU:HD11	2.41	0.50
13:Z:55:ALA:HB3	16:c:102:THR:OG1	2.12	0.50
13:Z:216:ALA:HB1	14:a:347:LYS:NZ	2.26	0.50
14:a:132:LYS:HD2	14:a:132:LYS:N	2.27	0.50
14:a:142:LEU:HD21	14:a:152:HIS:CD2	2.47	0.50
14:a:279:GLU:O	14:a:283:THR:HG23	2.11	0.50
15:b:6:THR:HG23	15:b:110:ILE:HD13	1.94	0.50
17:d:127:ASN:HD22	17:d:136:LEU:CD1	2.20	0.50
18:f:266:LEU:HD21	18:f:294:MET:O	2.11	0.50
18:f:432:TYR:O	18:f:433:LEU:C	2.53	0.50
20:u:118:ASP:O	20:u:119:ILE:O	2.30	0.50
22:A:174:TYR:CD1	22:A:184:ILE:HD13	2.46	0.50
22:A:355:PHE:CE2	22:A:385:ILE:HG23	2.46	0.50
24:E:152:PRO:HG2	24:E:274:LYS:HE2	1.93	0.50
24:E:235:ILE:CD1	24:E:277:MET:C	2.85	0.50
25:F:168:TYR:O	25:F:172:VAL:HB	2.11	0.50
25:F:226:TYR:HB2	25:F:335:VAL:CG2	2.42	0.50
27:U:252:LEU:HD23	27:U:329:LEU:HD22	1.92	0.50
27:U:624:PHE:CD1	27:U:658:ILE:HG21	2.46	0.50
27:U:765:VAL:HG13	27:U:778:PHE:CB	2.41	0.50
1:C:43:ARG:HD3	9:V:498:PRO:HA	1.94	0.50
1:C:165:ILE:HD11	1:C:292:ILE:HG12	1.92	0.50
1:C:298:ILE:O	1:C:298:ILE:HG12	2.10	0.50
1:C:405:TRP:CZ3	5:I:78:GLY:HA2	2.47	0.50
2:D:336:PRO:HB2	2:D:341:LYS:HG3	1.94	0.50
4:H:48:THR:OG1	4:H:64:LYS:NZ	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:18:LEU:HD21	6:J:125:ARG:HD2	1.94	0.50
5:I:122:THR:C	6:J:125:ARG:HH21	2.19	0.50
5:I:179:TYR:CZ	5:I:181:GLU:HB2	2.47	0.50
7:L:75:ALA:HB3	7:L:161:ILE:CD1	2.41	0.50
7:L:154:PHE:CB	8:M:58:TYR:CD2	2.94	0.50
9:V:176:MET:HE1	9:V:213:TYR:CA	2.41	0.50
9:V:482:PHE:CD1	9:V:482:PHE:C	2.90	0.50
10:W:280:ASP:OD1	10:W:282:GLU:N	2.43	0.50
12:Y:382:LYS:O	12:Y:386:VAL:HG23	2.12	0.50
12:Y:385:ARG:HA	12:Y:388:ASN:HD21	1.77	0.50
13:Z:231:GLN:OE1	14:a:341:LEU:HD21	2.12	0.50
13:Z:251:LEU:C	13:Z:251:LEU:HD23	2.37	0.50
14:a:111:VAL:HG13	14:a:115:LYS:HZ2	1.77	0.50
14:a:295:GLU:O	14:a:298:LYS:HG2	2.11	0.50
18:f:52:LEU:O	18:f:56:LEU:HD23	2.12	0.50
18:f:107:LYS:HE3	18:f:142:TYR:OH	2.12	0.50
18:f:179:VAL:HA	18:f:182:GLU:OE1	2.12	0.50
18:f:333:LEU:O	18:f:337:LEU:HD13	2.12	0.50
18:f:882:LEU:CD1	18:f:889:PRO:HD3	2.41	0.50
19:g:107:ILE:CG1	19:g:115:LYS:HZ2	2.24	0.50
19:g:162:GLU:HG2	19:g:163:GLU:N	2.27	0.50
24:E:40:TYR:HB2	25:F:73:ILE:HD11	1.92	0.50
24:E:342:ASP:O	24:E:374:VAL:HG11	2.12	0.50
25:F:282:ILE:HA	25:F:327:LYS:O	2.11	0.50
25:F:334:ARG:HH11	25:F:334:ARG:HG3	1.76	0.50
26:K:203:LYS:HG3	26:K:210:LEU:HB2	1.94	0.50
27:U:243:LEU:O	27:U:913:ILE:HD13	2.11	0.50
27:U:563:ALA:C	27:U:565:ALA:N	2.68	0.50
27:U:813:TYR:CE1	27:U:883:ARG:HD2	2.46	0.50
1:C:403:LYS:CB	4:H:156:PHE:HE1	2.23	0.50
2:D:99:ASN:HA	2:D:115:ILE:HB	1.93	0.50
2:D:218:ALA:O	2:D:219:VAL:C	2.54	0.50
3:G:199:ILE:CD1	3:G:215:ILE:HD13	2.41	0.50
3:G:206:LEU:HB2	3:G:208:ILE:HG12	1.93	0.50
6:J:120:GLN:O	6:J:120:GLN:HG3	2.12	0.50
6:J:212:ARG:HD2	6:J:215:GLN:CD	2.37	0.50
7:L:23:GLU:O	7:L:26:MET:HB3	2.11	0.50
8:M:41:CYS:HB2	8:M:186:CYS:N	2.27	0.50
9:V:72:LEU:HD12	9:V:120:PHE:CE1	2.37	0.50
10:W:18:VAL:O	10:W:19:ASP:HB2	2.12	0.50
10:W:364:ARG:HB3	10:W:368:LYS:NZ	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:391:ALA:HA	10:W:394:SER:OG	2.12	0.50
12:Y:219:PHE:CD1	12:Y:219:PHE:C	2.89	0.50
13:Z:249:PHE:HZ	16:c:303:MET:SD	2.35	0.50
14:a:293:PHE:CG	14:a:329:LYS:HG3	2.46	0.50
14:a:313:LYS:O	14:a:316:SER:OG	2.24	0.50
14:a:324:ILE:HG23	14:a:331:VAL:HG22	1.94	0.50
15:b:36:VAL:N	15:b:188:ILE:HD11	2.27	0.50
16:c:141:VAL:HG22	16:c:203:ILE:HD12	1.94	0.50
18:f:267:ARG:NH2	18:f:893:ILE:HB	2.26	0.50
18:f:307:LEU:HD11	18:f:311:VAL:HG21	1.93	0.50
18:f:433:LEU:CG	19:g:173:GLU:HA	2.42	0.50
22:A:206:ILE:HG21	25:F:404:GLY:HA3	1.94	0.50
23:B:248:LEU:HD12	23:B:280:SER:OG	2.11	0.50
23:B:430:LYS:HA	23:B:430:LYS:NZ	2.26	0.50
24:E:255:ARG:O	24:E:258:MET:HG2	2.12	0.50
24:E:318:GLY:N	24:E:319:PRO:HD2	2.26	0.50
25:F:169:ASP:CG	25:F:170:SER:H	2.20	0.50
25:F:283:ILE:HD13	25:F:283:ILE:N	2.27	0.50
27:U:38:ILE:CG2	27:U:67:VAL:HG21	2.42	0.50
27:U:630:PRO:O	27:U:634:PRO:HD3	2.12	0.50
1:C:338:LEU:HD13	1:C:342:ILE:CG2	2.41	0.50
2:D:41:TYR:CZ	27:U:155:LEU:HD11	2.47	0.50
2:D:247:VAL:HB	2:D:291:GLU:HG3	1.93	0.50
3:G:80:MET:CE	3:G:91:VAL:HG23	2.38	0.50
6:J:26:VAL:CG2	6:J:130:SER:HB3	2.42	0.50
8:M:236:GLU:O	8:M:240:LYS:HG3	2.11	0.50
9:V:128:ARG:CA	9:V:132:LEU:HD23	2.42	0.50
9:V:279:GLN:CG	9:V:279:GLN:O	2.60	0.50
9:V:428:LEU:CD1	9:V:437:ILE:HG21	2.39	0.50
10:W:109:CYS:HA	10:W:112:VAL:HB	1.93	0.50
10:W:445:LEU:O	10:W:449:GLU:HG2	2.11	0.50
12:Y:124:PHE:CD1	12:Y:140:ILE:HD12	2.47	0.50
14:a:216:LEU:HD22	14:a:237:LEU:O	2.12	0.50
15:b:17:ARG:HD3	15:b:81:LYS:HZ3	1.76	0.50
15:b:121:GLU:OE1	15:b:152:LYS:HB3	2.12	0.50
17:d:136:LEU:CB	17:d:141:LEU:HD21	2.42	0.50
18:f:67:ASP:HB3	18:f:70:LEU:CG	2.42	0.50
18:f:691:PRO:O	18:f:728:ALA:HB2	2.11	0.50
22:A:391:GLU:OE1	22:A:391:GLU:HA	2.11	0.50
25:F:126:THR:OG1	25:F:130:GLN:O	2.27	0.50
25:F:314:LEU:O	25:F:347:ARG:NH1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:388:THR:CG2	25:F:424:ILE:HG13	2.42	0.50
27:U:633:CYS:HA	27:U:636:VAL:HG12	1.94	0.50
27:U:890:LYS:HG3	27:U:891:VAL:N	2.27	0.50
1:C:151:ILE:HG12	1:C:198:LEU:CG	2.41	0.49
1:C:151:ILE:HG12	1:C:198:LEU:HG	1.94	0.49
2:D:154:LEU:HD11	24:E:267:PHE:CZ	2.46	0.49
2:D:391:ARG:HH22	2:D:395:LEU:HB2	1.77	0.49
5:I:90:LEU:CD2	5:I:110:LEU:HD11	2.39	0.49
6:J:210:VAL:CG1	6:J:220:LEU:HD21	2.42	0.49
7:L:8:ASN:O	26:K:14:THR:HG22	2.12	0.49
7:L:109:VAL:O	7:L:112:ILE:HG22	2.11	0.49
7:L:126:ARG:CD	26:K:21:LEU:HD11	2.42	0.49
7:L:164:ARG:HG2	7:L:164:ARG:O	2.12	0.49
10:W:451:MET:CE	13:Z:100:LYS:HD3	2.42	0.49
13:Z:106:ILE:HG21	13:Z:153:LYS:HG3	1.94	0.49
13:Z:142:GLU:CD	13:Z:153:LYS:HA	2.35	0.49
14:a:100:THR:HA	14:a:103:LYS:HE2	1.93	0.49
14:a:230:ARG:HB3	14:a:232:TRP:NE1	2.27	0.49
14:a:328:ASP:N	14:a:328:ASP:OD1	2.44	0.49
15:b:12:ASN:O	15:b:80:PRO:HA	2.11	0.49
17:d:129:LEU:HD11	27:U:8:ILE:HD11	1.94	0.49
18:f:399:LEU:HD22	18:f:410:ALA:CB	2.42	0.49
18:f:564:LEU:HD22	18:f:567:LEU:HD11	1.94	0.49
22:A:58:LYS:HE3	23:B:76:GLU:OE2	2.12	0.49
22:A:190:VAL:HG11	22:A:212:VAL:CG1	2.42	0.49
23:B:186:ASP:O	23:B:367:ILE:HD13	2.12	0.49
24:E:111:LEU:HD13	25:F:97:LEU:CD1	2.41	0.49
24:E:122:MET:SD	25:F:344:ARG:CZ	3.00	0.49
24:E:151:LEU:HB3	24:E:159:PHE:HE2	1.75	0.49
24:E:168:LYS:HA	24:E:274:LYS:HE3	1.94	0.49
25:F:145:LEU:HD11	25:F:151:VAL:CG1	2.42	0.49
25:F:188:ILE:HD13	25:F:236:LEU:CA	2.37	0.49
27:U:114:GLU:HA	27:U:114:GLU:OE2	2.12	0.49
27:U:253:TYR:CE1	27:U:331:GLY:HA3	2.47	0.49
27:U:332:GLU:O	27:U:336:GLU:HG2	2.12	0.49
27:U:373:ASN:ND2	27:U:411:ILE:HD11	2.27	0.49
27:U:410:VAL:HG22	27:U:448:LEU:HD12	1.94	0.49
27:U:792:ASN:HD21	27:U:796:LYS:HE2	1.77	0.49
27:U:900:TYR:OH	27:U:921:ILE:HA	2.12	0.49
1:C:117:ARG:HG2	1:C:117:ARG:NH1	2.27	0.49
1:C:197:THR:O	1:C:197:THR:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:368:MET:HE3	1:C:368:MET:HA	1.94	0.49
2:D:277:ALA:HB3	2:D:283:ARG:HG2	1.92	0.49
3:G:47:CYS:SG	3:G:191:PHE:HA	2.52	0.49
3:G:73:THR:CG2	3:G:74:GLU:N	2.75	0.49
3:G:123:GLN:C	3:G:123:GLN:OE1	2.55	0.49
5:I:86:LEU:HD11	5:I:114:LEU:HD11	1.94	0.49
5:I:212:GLU:C	5:I:213:ILE:HD12	2.37	0.49
9:V:327:THR:O	9:V:330:LYS:HB2	2.12	0.49
10:W:321:VAL:HG22	10:W:351:TRP:CZ2	2.47	0.49
11:X:143:TYR:CE2	11:X:179:ALA:CB	2.95	0.49
11:X:377:ILE:HD13	12:Y:310:SER:O	2.11	0.49
11:X:407:MET:HE2	11:X:407:MET:CA	2.38	0.49
12:Y:110:TYR:O	12:Y:114:ILE:HG23	2.12	0.49
13:Z:230:LEU:C	13:Z:230:LEU:HD23	2.36	0.49
14:a:18:GLN:HB2	14:a:19:PRO:CD	2.39	0.49
14:a:25:LEU:HA	14:a:28:LEU:CD2	2.41	0.49
14:a:284:ARG:HD3	14:a:288:HIS:O	2.11	0.49
14:a:292:THR:O	14:a:295:GLU:HG2	2.12	0.49
15:b:15:TYR:HD2	15:b:116:PRO:HD2	1.75	0.49
16:c:26:ASP:OD1	16:c:27:THR:N	2.45	0.49
16:c:27:THR:HG23	16:c:175:ARG:HB3	1.94	0.49
17:d:160:ASP:O	17:d:163:SER:OG	2.23	0.49
18:f:52:LEU:HB3	18:f:98:PHE:CE2	2.47	0.49
18:f:297:MET:HE1	18:f:782:HIS:HD2	1.77	0.49
18:f:650:GLN:O	18:f:653:ALA:HB3	2.12	0.49
19:g:109:GLY:HA3	19:g:138:LEU:CA	2.38	0.49
19:g:115:LYS:HE3	19:g:142:LEU:HD22	1.93	0.49
19:g:122:LEU:HB2	19:g:127:ILE:HD13	1.93	0.49
22:A:372:LEU:O	22:A:372:LEU:HD22	2.12	0.49
24:E:345:ASN:O	24:E:346:VAL:C	2.54	0.49
25:F:233:LYS:HG2	29:F:501:ATP:O2B	2.12	0.49
25:F:276:LYS:CE	25:F:326:VAL:HG21	2.39	0.49
25:F:321:GLN:OE1	25:F:321:GLN:N	2.44	0.49
27:U:78:LEU:HD22	27:U:104:CYS:SG	2.52	0.49
27:U:177:LEU:HD21	27:U:205:TYR:CE1	2.47	0.49
27:U:177:LEU:C	27:U:177:LEU:HD23	2.37	0.49
27:U:541:HIS:O	27:U:544:ILE:HG22	2.12	0.49
27:U:799:LYS:HG3	27:U:925:VAL:HG22	1.94	0.49
1:C:175:PHE:HD2	1:C:180:ILE:CD1	2.25	0.49
1:C:219:LEU:HB2	1:C:254:ILE:CD1	2.41	0.49
1:C:400:SER:HB3	4:H:26:LEU:CD2	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:391:ARG:CZ	2:D:395:LEU:HD12	2.42	0.49
3:G:23:TYR:HA	3:G:26:GLU:HG3	1.92	0.49
3:G:131:MET:HG2	8:M:125:TYR:CE1	2.46	0.49
5:I:76:VAL:HG13	5:I:132:VAL:CG2	2.42	0.49
5:I:82:ASP:HA	5:I:85:VAL:HG12	1.93	0.49
7:L:70:ILE:HD13	7:L:108:LEU:HD23	1.93	0.49
9:V:428:LEU:HD12	9:V:434:ALA:CB	2.41	0.49
10:W:417:ARG:HB3	10:W:418:PRO:HD2	1.94	0.49
10:W:424:LEU:HD11	13:Z:244:GLU:CD	2.36	0.49
11:X:57:LEU:CD2	11:X:62:GLN:HB2	2.42	0.49
11:X:132:ARG:NH2	11:X:135:SER:OG	2.45	0.49
11:X:167:VAL:CG2	11:X:196:THR:HG23	2.42	0.49
11:X:183:LEU:HB3	11:X:184:PRO:HD3	1.93	0.49
13:Z:113:LYS:NZ	13:Z:117:PRO:O	2.45	0.49
13:Z:176:LEU:C	13:Z:178:ASP:H	2.21	0.49
14:a:122:LYS:O	14:a:127:ASP:HA	2.12	0.49
15:b:147:GLU:HG2	15:b:150:THR:HG23	1.92	0.49
18:f:45:LEU:CD2	18:f:50:LYS:HE2	2.37	0.49
18:f:51:GLN:O	18:f:55:GLU:HG3	2.12	0.49
18:f:226:TYR:HE2	18:f:261:ARG:HG3	1.71	0.49
18:f:231:LEU:HD21	18:f:853:VAL:HA	1.93	0.49
18:f:257:ARG:HA	18:f:257:ARG:NE	2.21	0.49
18:f:369:ARG:HA	18:f:372:LEU:CD1	2.41	0.49
18:f:380:PHE:HD1	18:f:771:LEU:HD21	1.77	0.49
18:f:830:LEU:HD21	18:f:880:ALA:CB	2.43	0.49
19:g:113:ARG:NE	19:g:138:LEU:HD13	2.27	0.49
19:g:165:ALA:CA	19:g:169:PHE:H	2.26	0.49
23:B:197:ILE:HB	23:B:351:ILE:CD1	2.42	0.49
23:B:284:ILE:HG21	23:B:287:ILE:HD13	1.93	0.49
24:E:147:GLU:O	24:E:151:LEU:HB2	2.12	0.49
25:F:224:LEU:HD12	25:F:225:MET:H	1.76	0.49
25:F:250:LYS:HA	25:F:284:PHE:O	2.12	0.49
25:F:313:LEU:HD23	25:F:313:LEU:C	2.38	0.49
25:F:368:ILE:O	25:F:371:ARG:HG3	2.13	0.49
27:U:15:ASP:OD1	27:U:15:ASP:N	2.40	0.49
27:U:46:GLU:HG3	27:U:80:TYR:CZ	2.47	0.49
27:U:108:TYR:HE1	27:U:126:ILE:HG21	1.77	0.49
27:U:588:MET:HA	27:U:588:MET:CE	2.42	0.49
1:C:405:TRP:CH2	5:I:27:ALA:HB1	2.47	0.49
2:D:147:ALA:HB1	2:D:253:LEU:CD1	2.42	0.49
2:D:238:LYS:HE3	2:D:239:TYR:HE1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:367:PRO:O	2:D:369:LYS:HD2	2.13	0.49
3:G:191:PHE:CE1	3:G:219:VAL:HG11	2.46	0.49
4:H:36:VAL:CG1	4:H:194:THR:HG22	2.40	0.49
5:I:130:PHE:O	5:I:152:PRO:HB3	2.12	0.49
7:L:46:LEU:CD1	7:L:63:ILE:HG12	2.42	0.49
7:L:88:MET:HE2	7:L:108:LEU:HD21	1.93	0.49
7:L:196:ARG:CZ	7:L:239:ARG:HG3	2.43	0.49
10:W:301:LYS:HG3	10:W:327:GLU:HG3	1.93	0.49
14:a:80:ILE:CG2	14:a:96:PHE:HZ	2.25	0.49
14:a:134:THR:HA	14:a:137:ASP:OD2	2.12	0.49
14:a:321:LYS:HD2	14:a:336:VAL:CG2	2.40	0.49
15:b:11:ASP:CG	15:b:16:MET:HG3	2.37	0.49
18:f:56:LEU:HB3	18:f:99:LEU:HD21	1.93	0.49
18:f:130:ALA:HB1	18:f:139:CYS:HB2	1.93	0.49
18:f:452:ASN:HB2	18:f:488:ALA:HB1	1.94	0.49
18:f:494:ARG:HB3	18:f:496:ASP:OD1	2.12	0.49
18:f:850:VAL:HG21	18:f:863:THR:HG21	1.94	0.49
19:g:163:GLU:CA	19:g:166:ARG:HB2	2.31	0.49
22:A:94:GLN:HB3	22:A:142:VAL:HG22	1.93	0.49
22:A:220:THR:HG22	22:A:222:LYS:NZ	2.28	0.49
23:B:56:THR:HG23	23:B:58:CYS:SG	2.52	0.49
24:E:40:TYR:OH	25:F:72:LYS:HB3	2.13	0.49
26:K:186:HIS:CD2	26:K:189:MET:CE	2.94	0.49
27:U:265:ILE:HG22	27:U:326:ILE:HG23	1.91	0.49
27:U:483:LEU:HD13	27:U:778:PHE:CE1	2.35	0.49
27:U:588:MET:SD	27:U:764:LEU:HD22	2.52	0.49
27:U:606:ALA:CB	27:U:619:VAL:HG23	2.40	0.49
27:U:797:MET:HE2	27:U:797:MET:HA	1.93	0.49
27:U:806:CYS:H	27:U:874:ASN:CB	2.26	0.49
2:D:205:TYR:CG	2:D:314:ALA:HB2	2.47	0.49
2:D:378:ILE:CD1	2:D:403:TYR:HD1	2.25	0.49
3:G:38:THR:HG21	3:G:202:LEU:HD11	1.95	0.49
6:J:4:ASP:OD1	6:J:4:ASP:C	2.55	0.49
6:J:16:LEU:HD12	26:K:81:LEU:HD21	1.93	0.49
7:L:22:ILE:CG2	7:L:150:SER:HB2	2.42	0.49
8:M:184:MET:HB3	8:M:188:ASP:OD1	2.13	0.49
8:M:211:LEU:CG	8:M:213:LEU:HD11	2.40	0.49
9:V:67:LEU:HD12	9:V:107:ARG:NH1	2.24	0.49
9:V:348:PHE:HB3	9:V:361:PHE:HD2	1.77	0.49
10:W:210:ASN:CG	10:W:212:LYS:H	2.12	0.49
13:Z:47:VAL:O	13:Z:47:VAL:CG2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z:60:GLU:HG3	13:Z:68:TRP:HB3	1.93	0.49
13:Z:144:VAL:HG21	14:a:178:ARG:HE	1.77	0.49
13:Z:175:LEU:HD11	16:c:35:SER:CB	2.42	0.49
14:a:68:GLU:HG3	14:a:69:HIS:H	1.74	0.49
14:a:78:GLU:HA	14:a:81:LEU:HD21	1.93	0.49
15:b:25:ARG:NH2	15:b:145:GLU:OE1	2.45	0.49
15:b:26:LEU:CD2	15:b:80:PRO:HD3	2.43	0.49
16:c:196:LEU:C	16:c:198:ARG:N	2.69	0.49
17:d:248:LYS:O	17:d:251:ILE:HG23	2.11	0.49
18:f:209:MET:HG2	18:f:248:LEU:HD21	1.94	0.49
18:f:275:MET:SD	18:f:278:VAL:HB	2.53	0.49
18:f:502:LEU:HB2	18:f:503:PRO:HD3	1.94	0.49
18:f:531:ASN:H	18:f:565:ASN:HD21	1.60	0.49
18:f:832:THR:O	18:f:840:LEU:N	2.45	0.49
22:A:233:THR:C	22:A:235:ALA:H	2.20	0.49
22:A:368:ILE:CD1	22:A:406:GLU:HA	2.43	0.49
23:B:231:GLY:HA2	29:B:501:ATP:O2A	2.13	0.49
24:E:36:LEU:HA	24:E:39:GLN:HE21	1.77	0.49
27:U:147:TYR:HB2	27:U:176:MET:HE1	1.95	0.49
27:U:341:PHE:CE1	27:U:345:ASN:HB3	2.47	0.49
1:C:36:ASN:ND2	9:V:89:LYS:O	2.43	0.49
1:C:329:LEU:HD11	1:C:347:ILE:CG2	2.43	0.49
2:D:181:VAL:CG2	2:D:308:ILE:HD11	2.39	0.49
2:D:346:SER:O	2:D:350:SER:HB3	2.13	0.49
5:I:216:LEU:HD23	5:I:216:LEU:C	2.37	0.49
7:L:135:ALA:HB2	7:L:144:ILE:CD1	2.42	0.49
7:L:164:ARG:HB2	7:L:164:ARG:CZ	2.43	0.49
9:V:248:ALA:HA	9:V:276:PHE:CE1	2.47	0.49
11:X:414:LEU:CD1	13:Z:273:HIS:HB2	2.36	0.49
13:Z:7:GLN:HG3	13:Z:47:VAL:HG12	1.92	0.49
13:Z:32:GLN:CD	13:Z:33:LYS:H	2.16	0.49
14:a:6:GLY:O	14:a:9:GLN:HB2	2.13	0.49
14:a:173:TYR:CZ	14:a:177:LEU:HD11	2.48	0.49
15:b:53:THR:HG22	15:b:61:LEU:HD11	1.94	0.49
16:c:187:PRO:CB	16:c:192:LEU:HD21	2.40	0.49
18:f:226:TYR:CD1	18:f:227:ALA:N	2.80	0.49
18:f:449:GLY:HA3	18:f:484:GLY:C	2.38	0.49
18:f:489:TYR:HD2	18:f:497:VAL:HG21	1.77	0.49
18:f:801:VAL:O	18:f:804:LEU:HB2	2.13	0.49
18:f:827:PRO:HB2	18:f:829:MET:CE	2.42	0.49
24:E:311:ASP:HA	24:E:314:LYS:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:240:CYS:O	25:F:244:THR:OG1	2.17	0.49
25:F:246:ALA:HA	25:F:280:PRO:O	2.12	0.49
25:F:255:GLN:OE1	25:F:255:GLN:HA	2.12	0.49
27:U:787:CYS:SG	27:U:789:ILE:CD1	3.01	0.49
1:C:135:VAL:HG23	1:C:138:MET:HE3	1.93	0.49
2:D:377:SER:O	2:D:379:CYS:N	2.46	0.49
3:G:178:PHE:CE1	3:G:204:THR:HG21	2.48	0.49
5:I:108:GLU:HA	5:I:148:TYR:HE2	1.77	0.49
5:I:118:LYS:NZ	5:I:118:LYS:HB2	2.26	0.49
5:I:134:LEU:N	5:I:134:LEU:HD23	2.28	0.49
7:L:104:PRO:HG2	7:L:107:ARG:HB2	1.93	0.49
9:V:134:PHE:CD2	9:V:187:ILE:HG13	2.48	0.49
10:W:41:GLN:O	10:W:44:ILE:HG12	2.13	0.49
10:W:230:MET:HG3	10:W:246:HIS:NE2	2.27	0.49
11:X:137:TYR:CB	11:X:146:ALA:HB2	2.42	0.49
12:Y:24:PHE:CZ	12:Y:289:ALA:HB2	2.48	0.49
13:Z:132:GLY:HA3	16:c:222:LYS:HZ3	1.78	0.49
13:Z:212:LEU:HB3	14:a:350:LYS:CB	2.43	0.49
16:c:117:GLY:N	16:c:146:ASP:OD1	2.31	0.49
17:d:197:LEU:CD1	17:d:256:TYR:HD1	2.26	0.49
18:f:67:ASP:HB3	18:f:70:LEU:HG	1.94	0.49
18:f:412:ALA:HB3	18:f:819:TYR:CE2	2.48	0.49
19:g:116:ILE:HG22	19:g:127:ILE:HD12	1.93	0.49
19:g:141:THR:HG22	19:g:144:GLU:CG	2.42	0.49
20:u:215:THR:O	20:u:237:LYS:NZ	2.46	0.49
24:E:150:GLU:C	24:E:150:GLU:OE1	2.56	0.49
24:E:376:ASP:OD1	24:E:377:SER:N	2.46	0.49
25:F:181:PRO:HB2	25:F:183:GLU:CD	2.37	0.49
25:F:188:ILE:HG12	25:F:235:LEU:HG	1.94	0.49
25:F:205:PRO:HB3	25:F:219:PRO:HB2	1.92	0.49
25:F:375:VAL:HG22	25:F:379:VAL:HG21	1.95	0.49
26:K:109:VAL:HG12	26:K:147:ASP:OD2	2.13	0.49
27:U:110:LYS:O	27:U:114:GLU:HG2	2.13	0.49
27:U:869:LYS:O	27:U:872:GLU:HG2	2.13	0.49
1:C:94:LYS:CB	23:B:109:VAL:HB	2.36	0.49
1:C:217:SER:OG	2:D:244:PRO:HB3	2.13	0.49
1:C:300:ILE:HD13	2:D:276:ASP:OD2	2.13	0.49
2:D:309:MET:HE1	2:D:321:LEU:HD11	1.94	0.49
2:D:355:SER:OG	2:D:357:GLU:OE1	2.23	0.49
2:D:403:TYR:CE1	2:D:407:ILE:HD12	2.47	0.49
8:M:73:VAL:HG13	8:M:108:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:345:ARG:NH2	28:e:46:ASP:OD2	2.33	0.49
9:V:492:LYS:HG3	9:V:493:ALA:N	2.27	0.49
10:W:370:TYR:OH	14:a:308:GLU:CG	2.61	0.49
10:W:423:ASN:C	10:W:423:ASN:OD1	2.55	0.49
10:W:451:MET:HE2	13:Z:100:LYS:HD3	1.93	0.49
13:Z:45:LYS:H	13:Z:45:LYS:CD	2.20	0.49
13:Z:90:ARG:HB3	13:Z:90:ARG:NH1	2.27	0.49
14:a:7:PHE:HE2	14:a:60:TYR:CA	2.20	0.49
14:a:226:ARG:HA	14:a:229:ASP:OD1	2.12	0.49
15:b:140:ILE:HG22	15:b:170:LEU:HD13	1.95	0.49
17:d:109:LEU:HD23	17:d:154:TRP:CE2	2.48	0.49
17:d:122:VAL:O	17:d:126:LEU:HG	2.13	0.49
18:f:67:ASP:HB3	18:f:70:LEU:CD1	2.42	0.49
18:f:209:MET:CE	23:B:59:ARG:HH11	2.26	0.49
18:f:308:SER:HB2	18:f:310:ASP:OD1	2.13	0.49
18:f:423:ASP:HA	19:g:156:LEU:HD13	1.95	0.49
18:f:433:LEU:HD13	18:f:441:LYS:CA	2.39	0.49
18:f:691:PRO:HB2	18:f:724:ASN:HB3	1.95	0.49
18:f:799:VAL:HG21	18:f:821:LEU:CD2	2.42	0.49
18:f:835:GLU:HG2	18:f:900:LEU:O	2.13	0.49
18:f:852:VAL:HG22	18:f:852:VAL:O	2.12	0.49
18:f:885:GLU:HG3	18:f:906:TYR:HD2	1.78	0.49
22:A:119:ALA:CB	25:F:89:LEU:HD11	2.43	0.49
22:A:433:ASN:HD21	26:K:66:LYS:HG2	1.78	0.49
23:B:224:LEU:HD11	23:B:328:ILE:HG23	1.94	0.49
23:B:272:ARG:NH1	23:B:276:GLU:OE2	2.46	0.49
24:E:320:ILE:HA	25:F:215:LEU:O	2.12	0.49
25:F:245:LYS:O	25:F:246:ALA:HB3	2.13	0.49
25:F:251:LEU:CD2	25:F:256:LEU:HD11	2.42	0.49
25:F:384:LEU:O	25:F:388:THR:HG23	2.12	0.49
26:K:59:MET:SD	26:K:64:ILE:HD11	2.53	0.49
26:K:199:LEU:CD1	26:K:238:ILE:HD11	2.42	0.49
27:U:112:CYS:SG	27:U:158:ARG:HG2	2.53	0.49
27:U:221:ILE:HD12	27:U:256:ALA:HB2	1.94	0.49
27:U:883:ARG:HG3	27:U:883:ARG:O	2.12	0.49
27:U:902:PRO:HB3	27:U:912:ILE:CD1	2.42	0.49
1:C:246:ILE:HG21	1:C:248:MET:HE3	1.95	0.49
3:G:54:LYS:HB2	3:G:216:GLU:OE1	2.13	0.49
5:I:45:LEU:HD11	5:I:137:ILE:CG2	2.43	0.49
6:J:37:GLY:O	6:J:142:PRO:HG3	2.13	0.49
7:L:144:ILE:HG22	7:L:144:ILE:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:L:160:SER:O	7:L:160:SER:OG	2.27	0.49
8:M:73:VAL:CG1	8:M:137:LEU:HD22	2.43	0.49
9:V:85:ALA:HB2	9:V:93:PHE:HB2	1.95	0.49
9:V:113:LEU:HD11	9:V:174:PHE:HB3	1.95	0.49
9:V:289:LEU:HA	9:V:292:THR:CG2	2.42	0.49
10:W:80:TRP:HA	10:W:80:TRP:HE3	1.78	0.49
10:W:172:GLU:HG3	10:W:208:LYS:HD2	1.95	0.49
11:X:109:LEU:HA	11:X:112:GLU:OE2	2.13	0.49
13:Z:101:LEU:HD11	13:Z:138:TYR:CE2	2.48	0.49
13:Z:208:ILE:HG23	13:Z:230:LEU:CD1	2.42	0.49
14:a:113:LEU:H	14:a:113:LEU:HD12	1.78	0.49
14:a:124:ASN:C	14:a:125:ILE:HD13	2.38	0.49
14:a:189:PRO:O	14:a:192:GLU:N	2.46	0.49
14:a:249:GLN:O	14:a:252:LYS:N	2.46	0.49
15:b:2:VAL:HG13	15:b:2:VAL:O	2.13	0.49
18:f:59:LEU:HD13	18:f:62:ARG:NH1	2.28	0.49
18:f:67:ASP:CB	18:f:70:LEU:HD12	2.43	0.49
18:f:160:ARG:O	18:f:163:ALA:HB3	2.13	0.49
18:f:185:LEU:O	18:f:185:LEU:HD23	2.12	0.49
18:f:459:CYS:SG	19:g:154:MET:N	2.86	0.49
18:f:520:LEU:CD1	18:f:560:LEU:HD13	2.40	0.49
18:f:610:GLN:OE1	27:U:830:THR:OG1	2.29	0.49
19:g:112:LEU:HD22	19:g:145:GLN:OE1	2.13	0.49
19:g:165:ALA:HA	19:g:168:ASN:CA	2.42	0.49
19:g:165:ALA:HA	19:g:169:PHE:H	1.78	0.49
23:B:364:ILE:HG12	29:B:501:ATP:N1	2.28	0.49
24:E:40:TYR:CE2	25:F:72:LYS:HE2	2.42	0.49
24:E:101:ASP:OD2	24:E:104:THR:HG23	2.13	0.49
24:E:121:ASN:O	24:E:123:SER:N	2.46	0.49
27:U:188:MET:HB3	27:U:194:ARG:HH21	1.78	0.49
27:U:792:ASN:OD1	27:U:793:LYS:HG2	2.13	0.49
1:C:165:ILE:HG12	1:C:292:ILE:HD11	1.92	0.49
2:D:101:ALA:HB2	2:D:115:ILE:HD11	1.94	0.49
2:D:309:MET:HE3	2:D:327:LEU:CG	2.43	0.49
3:G:162:GLY:HA3	4:H:61:SER:HB2	1.93	0.49
4:H:139:TRP:NE1	4:H:215:GLU:HA	2.28	0.49
4:H:227:LYS:HE2	4:H:227:LYS:C	2.38	0.49
8:M:213:LEU:O	8:M:226:ILE:HG13	2.12	0.49
9:V:482:PHE:CE1	12:Y:377:LEU:HD22	2.47	0.49
12:Y:181:LYS:HB3	12:Y:204:THR:HG21	1.95	0.49
13:Z:40:LEU:HD11	13:Z:54:PHE:HE2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:164:GLN:O	14:a:164:GLN:HG3	2.13	0.49
14:a:329:LYS:HG3	14:a:329:LYS:O	2.12	0.49
15:b:181:ASP:HA	15:b:184:ILE:CG1	2.43	0.49
15:b:181:ASP:O	15:b:184:ILE:HG13	2.13	0.49
17:d:95:TYR:HD2	17:d:143:LEU:HD22	1.78	0.49
17:d:146:ASP:HA	17:d:149:GLU:CB	2.43	0.49
17:d:204:ARG:NE	17:d:207:GLU:OE1	2.35	0.49
18:f:240:VAL:O	18:f:245:ASN:HB3	2.11	0.49
18:f:288:VAL:O	18:f:291:GLN:HB3	2.13	0.49
18:f:556:ARG:CD	18:f:590:PHE:CZ	2.95	0.49
18:f:812:GLY:C	18:f:813:LYS:HD3	2.38	0.49
22:A:101:ILE:HD11	22:A:111:TYR:HE2	1.78	0.49
24:E:147:GLU:O	24:E:151:LEU:HD13	2.13	0.49
25:F:374:ASN:O	25:F:414:GLU:HA	2.12	0.49
26:K:143:PHE:O	26:K:153:LEU:HD12	2.12	0.49
27:U:246:TYR:HH	27:U:324:LYS:HG2	1.78	0.49
2:D:133:HIS:ND1	2:D:136:SER:OG	2.35	0.48
3:G:101:TRP:CH2	3:G:113:MET:HG3	2.48	0.48
4:H:49:GLU:HG3	4:H:49:GLU:O	2.11	0.48
4:H:74:LEU:HD13	4:H:134:LEU:CD1	2.43	0.48
5:I:97:TYR:CE1	5:I:106:PRO:HD3	2.48	0.48
6:J:26:VAL:O	6:J:162:GLY:HA2	2.13	0.48
6:J:69:VAL:HG23	6:J:69:VAL:O	2.13	0.48
7:L:55:GLU:OE1	7:L:55:GLU:N	2.32	0.48
7:L:74:ILE:HG22	7:L:132:LEU:CD2	2.41	0.48
7:L:130:VAL:O	7:L:130:VAL:HG13	2.13	0.48
8:M:25:TYR:HA	8:M:28:LYS:CD	2.42	0.48
8:M:25:TYR:HA	8:M:28:LYS:CG	2.41	0.48
8:M:33:SER:HB2	8:M:79:GLY:CA	2.41	0.48
8:M:98:PHE:CZ	8:M:106:ILE:HA	2.48	0.48
9:V:128:ARG:O	9:V:132:LEU:HD23	2.13	0.48
9:V:188:SER:O	9:V:192:MET:N	2.36	0.48
9:V:209:LYS:HE3	9:V:213:TYR:OH	2.12	0.48
10:W:188:GLU:O	10:W:192:LEU:HG	2.12	0.48
10:W:360:GLU:O	10:W:363:ILE:HB	2.13	0.48
12:Y:101:ARG:HH11	12:Y:101:ARG:HA	1.77	0.48
12:Y:149:LEU:HA	12:Y:157:ILE:HD11	1.95	0.48
14:a:112:ILE:HG23	14:a:113:LEU:H	1.77	0.48
14:a:188:LEU:CD1	14:a:192:GLU:HB3	2.31	0.48
14:a:287:ASN:OD1	14:a:288:HIS:ND1	2.46	0.48
18:f:231:LEU:HD23	18:f:853:VAL:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:337:LEU:HD21	18:f:873:LEU:HD11	1.95	0.48
18:f:737:ASN:HD21	18:f:773:LYS:C	2.20	0.48
19:g:109:GLY:HA2	19:g:112:LEU:HB2	1.95	0.48
22:A:144:ARG:HH21	23:B:131:HIS:CD2	2.31	0.48
23:B:283:PHE:CE2	23:B:285:ASP:HB2	2.48	0.48
23:B:430:LYS:NZ	23:B:431:GLN:OE1	2.47	0.48
24:E:121:ASN:C	24:E:123:SER:H	2.20	0.48
25:F:180:ARG:HD3	25:F:242:ALA:HA	1.95	0.48
26:K:173:ALA:HB1	26:K:205:VAL:CG2	2.43	0.48
27:U:54:PHE:HB3	27:U:57:ARG:HG2	1.95	0.48
27:U:98:GLU:C	27:U:98:GLU:OE1	2.56	0.48
27:U:129:ARG:O	27:U:133:ILE:HG22	2.12	0.48
27:U:377:HIS:C	27:U:380:THR:HG23	2.38	0.48
27:U:609:ASP:CG	27:U:614:VAL:HG11	2.38	0.48
27:U:770:TRP:O	27:U:770:TRP:HD1	1.96	0.48
27:U:902:PRO:HG3	27:U:906:LEU:HB2	1.95	0.48
2:D:46:LYS:NZ	27:U:187:LEU:HD11	2.28	0.48
2:D:89:ILE:HD11	24:E:80:VAL:HG22	1.94	0.48
5:I:43:VAL:HG13	5:I:137:ILE:HB	1.95	0.48
8:M:50:GLU:CA	8:M:197:ILE:HD11	2.43	0.48
8:M:215:TRP:CD2	8:M:227:VAL:HG22	2.48	0.48
8:M:243:LEU:HD12	8:M:244:LYS:N	2.28	0.48
10:W:147:LYS:HB2	10:W:185:PHE:HE1	1.77	0.48
11:X:140:THR:HG22	11:X:140:THR:O	2.13	0.48
11:X:254:MET:CE	11:X:270:LEU:HD23	2.44	0.48
12:Y:192:ARG:HD3	12:Y:294:TYR:CG	2.48	0.48
14:a:15:GLY:C	14:a:21:VAL:HG11	2.38	0.48
14:a:215:GLU:O	14:a:219:HIS:HB2	2.12	0.48
15:b:26:LEU:O	15:b:29:GLN:HG2	2.13	0.48
15:b:103:LYS:HA	15:b:103:LYS:HE3	1.95	0.48
15:b:140:ILE:CG2	15:b:170:LEU:HD13	2.43	0.48
16:c:44:HIS:NE2	16:c:74:ALA:HB1	2.28	0.48
17:d:101:GLU:O	17:d:107:PRO:HA	2.14	0.48
18:f:267:ARG:NH1	18:f:783:SER:HA	2.28	0.48
18:f:403:LYS:O	18:f:403:LYS:HG3	2.12	0.48
18:f:498:LEU:HD22	18:f:534:VAL:HG21	1.95	0.48
18:f:563:GLY:HA3	18:f:598:CYS:CB	2.42	0.48
18:f:784:ASP:OD2	18:f:879:ARG:NE	2.46	0.48
18:f:869:THR:HG23	18:f:869:THR:O	2.12	0.48
22:A:177:VAL:HG22	22:A:224:LEU:HG	1.95	0.48
23:B:103:ARG:HE	23:B:160:ILE:CG2	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:E:194:ASN:HD22	24:E:228:CYS:HB2	1.78	0.48
24:E:309:ARG:O	24:E:313:LEU:HB2	2.14	0.48
26:K:67:ILE:CD1	26:K:77:ALA:HA	2.42	0.48
27:U:8:ILE:O	27:U:12:LEU:HD12	2.12	0.48
27:U:357:LYS:HG3	27:U:358:ASP:N	2.27	0.48
27:U:796:LYS:HZ3	27:U:921:ILE:HB	1.79	0.48
1:C:188:LEU:HD23	1:C:315:ILE:HB	1.95	0.48
1:C:222:LYS:HG3	1:C:223:PHE:H	1.77	0.48
2:D:70:LYS:HE2	2:D:70:LYS:HB2	1.57	0.48
2:D:71:GLU:HG3	27:U:644:TYR:CE2	2.49	0.48
5:I:106:PRO:O	5:I:108:GLU:N	2.46	0.48
6:J:35:VAL:CG2	6:J:191:VAL:HG23	2.43	0.48
7:L:78:THR:HG23	25:F:437:TYR:O	2.14	0.48
7:L:126:ARG:HD3	26:K:12:VAL:O	2.13	0.48
7:L:224:TYR:CE1	7:L:232:PHE:HE1	2.32	0.48
9:V:61:GLU:HG3	9:V:62:HIS:N	2.27	0.48
9:V:323:GLY:O	9:V:326:GLN:HB2	2.12	0.48
10:W:227:TYR:O	10:W:231:ILE:HG13	2.13	0.48
11:X:339:ILE:HD11	11:X:350:ILE:HD13	1.95	0.48
11:X:359:ALA:O	11:X:363:ARG:HG3	2.13	0.48
12:Y:95:LEU:HB3	12:Y:99:GLU:CB	2.43	0.48
12:Y:215:ASP:OD1	12:Y:215:ASP:N	2.47	0.48
14:a:34:TRP:CG	14:a:70:ARG:HB2	2.48	0.48
14:a:61:GLU:CA	14:a:64:ILE:HG22	2.40	0.48
15:b:20:ASP:OD2	15:b:144:GLY:HA2	2.13	0.48
17:d:297:LYS:O	17:d:300:THR:HB	2.12	0.48
17:d:313:ASN:OD1	17:d:315:TYR:HB2	2.13	0.48
18:f:300:ARG:HA	18:f:300:ARG:NE	2.28	0.48
18:f:502:LEU:CD2	18:f:537:THR:HG21	2.42	0.48
18:f:512:MET:HE2	18:f:512:MET:CA	2.41	0.48
20:u:191:PRO:O	20:u:225:ILE:HD11	2.13	0.48
22:A:146:LYS:O	22:A:147:TYR:HB2	2.12	0.48
22:A:271:LEU:CD2	22:A:316:LYS:HB2	2.43	0.48
22:A:433:ASN:O	26:K:35:SER:OG	2.18	0.48
25:F:75:GLU:HA	25:F:78:GLU:OE1	2.13	0.48
26:K:168:ARG:HG3	26:K:169:ALA:N	2.27	0.48
26:K:212:ALA:CB	26:K:235:GLU:HG3	2.43	0.48
27:U:422:LEU:HG	27:U:426:TYR:HE2	1.71	0.48
2:D:51:LEU:HD12	2:D:51:LEU:O	2.12	0.48
2:D:60:TYR:CZ	27:U:640:LEU:HD22	2.48	0.48
2:D:73:LEU:CD1	13:Z:184:VAL:HG21	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:361:GLU:HA	2:D:364:VAL:CG2	2.39	0.48
2:D:377:SER:HB3	2:D:406:VAL:HG11	1.95	0.48
9:V:66:GLU:CA	9:V:69:THR:HG22	2.43	0.48
9:V:358:MET:HE3	9:V:359:PRO:N	2.28	0.48
10:W:346:GLU:H	10:W:346:GLU:CD	2.22	0.48
11:X:211:ASP:O	11:X:214:SER:N	2.44	0.48
11:X:254:MET:HE3	11:X:270:LEU:HD23	1.95	0.48
14:a:5:PRO:O	14:a:8:LEU:HG	2.13	0.48
14:a:202:LEU:HD21	14:a:257:GLN:NE2	2.27	0.48
15:b:39:SER:CB	15:b:188:ILE:HG12	2.43	0.48
15:b:143:PHE:HE1	15:b:183:LEU:HD21	1.77	0.48
15:b:179:LEU:HG	15:b:180:ALA:H	1.78	0.48
16:c:40:LYS:HD2	16:c:72:VAL:O	2.14	0.48
16:c:68:ARG:HH12	27:U:540:GLN:HG3	1.77	0.48
16:c:247:GLU:OE2	16:c:287:HIS:NE2	2.46	0.48
16:c:292:MET:SD	17:d:346:LEU:HD13	2.53	0.48
17:d:153:GLN:HA	17:d:156:ILE:HD11	1.95	0.48
18:f:253:LEU:HD23	18:f:253:LEU:O	2.13	0.48
18:f:339:ILE:HD12	18:f:385:PHE:HE1	1.79	0.48
18:f:383:ALA:HA	18:f:417:ILE:HA	1.95	0.48
18:f:426:LEU:HB3	19:g:156:LEU:HD22	1.95	0.48
18:f:573:ILE:CG1	18:f:599:ALA:HB2	2.32	0.48
20:u:166:LEU:HD11	20:u:204:MET:HB3	1.93	0.48
23:B:294:ARG:CD	23:B:310:LEU:HD11	2.32	0.48
23:B:365:PHE:C	23:B:369:THR:HG22	2.36	0.48
23:B:374:LEU:HD12	23:B:414:VAL:CG1	2.43	0.48
24:E:98:VAL:HB	24:E:107:ILE:CG2	2.44	0.48
24:E:251:ARG:HG3	24:E:255:ARG:HH12	1.78	0.48
25:F:382:GLU:O	25:F:386:ARG:HD2	2.14	0.48
26:K:112:VAL:HG13	26:K:113:THR:N	2.28	0.48
27:U:324:LYS:HZ1	27:U:333:MET:HE3	1.77	0.48
27:U:560:MET:CE	27:U:593:SER:HB2	2.43	0.48
27:U:628:ARG:HG2	27:U:628:ARG:HH11	1.76	0.48
27:U:688:LEU:HD21	27:U:712:LEU:HD21	1.96	0.48
27:U:717:ILE:HD12	27:U:717:ILE:O	2.13	0.48
27:U:772:TRP:HB3	27:U:775:LEU:HG	1.95	0.48
1:C:146:SER:OG	1:C:201:ARG:NH1	2.45	0.48
3:G:50:ILE:HG23	3:G:141:ILE:HD13	1.94	0.48
3:G:55:LYS:O	3:G:57:PRO:HD3	2.14	0.48
3:G:155:ASP:HB2	3:G:156:PRO:CD	2.43	0.48
7:L:74:ILE:CG2	7:L:132:LEU:HD21	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:L:196:ARG:HB3	7:L:205:LEU:HG	1.96	0.48
8:M:149:TYR:HD1	8:M:159:GLY:CA	2.26	0.48
9:V:66:GLU:HA	9:V:69:THR:CG2	2.44	0.48
10:W:320:LEU:HD23	10:W:321:VAL:N	2.27	0.48
11:X:395:LYS:H	11:X:395:LYS:HD3	1.77	0.48
12:Y:58:CYS:HA	12:Y:63:TRP:HB2	1.96	0.48
12:Y:187:TYR:CZ	12:Y:191:ILE:HG21	2.49	0.48
13:Z:217:THR:CG2	13:Z:219:LYS:HG3	2.42	0.48
14:a:12:GLN:HB2	14:a:23:HIS:HE1	1.79	0.48
14:a:90:PRO:HA	14:a:121:LEU:CD2	2.43	0.48
14:a:130:VAL:O	14:a:130:VAL:HG22	2.12	0.48
16:c:114:SER:O	16:c:115:HIS:CD2	2.66	0.48
16:c:233:ASP:OD1	16:c:233:ASP:C	2.56	0.48
18:f:208:LEU:CD2	18:f:216:MET:HE2	2.43	0.48
18:f:801:VAL:CA	18:f:804:LEU:HD12	2.41	0.48
19:g:116:ILE:HG21	19:g:129:ILE:HG12	1.94	0.48
20:u:137:CYS:O	20:u:138:LEU:HD23	2.14	0.48
25:F:191:LEU:HD22	25:F:194:GLN:HG2	1.96	0.48
25:F:251:LEU:HD21	25:F:256:LEU:HD11	1.96	0.48
25:F:288:LEU:O	25:F:292:GLY:N	2.47	0.48
25:F:314:LEU:CA	25:F:347:ARG:HH12	2.27	0.48
25:F:360:GLU:C	25:F:360:GLU:OE1	2.56	0.48
25:F:397:LYS:HD2	29:F:501:ATP:O3'	2.14	0.48
27:U:120:GLU:OE1	27:U:120:GLU:N	2.39	0.48
27:U:343:ILE:HD12	27:U:381:THR:OG1	2.13	0.48
27:U:368:ALA:HB2	27:U:728:PHE:CD1	2.48	0.48
27:U:518:LEU:CD2	27:U:554:LEU:HD13	2.43	0.48
27:U:831:ALA:O	27:U:836:THR:HG21	2.13	0.48
27:U:902:PRO:CG	27:U:906:LEU:HB2	2.42	0.48
3:G:69:LEU:HB3	3:G:229:ILE:HD11	1.94	0.48
3:G:131:MET:HE3	8:M:124:LEU:CD1	2.41	0.48
4:H:203:MET:HG3	4:H:208:ILE:HG13	1.95	0.48
5:I:138:GLY:HA2	5:I:216:LEU:HD11	1.93	0.48
5:I:158:GLY:H	6:J:58:THR:CB	2.26	0.48
6:J:10:PHE:H	26:K:23:GLN:NE2	2.11	0.48
7:L:56:LEU:H	7:L:56:LEU:CD2	2.25	0.48
7:L:172:LEU:HD21	7:L:194:ALA:HB2	1.95	0.48
9:V:198:GLN:CB	9:V:203:LEU:HD22	2.44	0.48
9:V:367:VAL:HG21	9:V:398:LEU:HD21	1.96	0.48
10:W:34:LEU:HD12	10:W:43:VAL:HG22	1.95	0.48
10:W:52:LYS:NZ	10:W:52:LYS:HB2	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:223:LYS:CE	10:W:253:THR:HG22	2.43	0.48
10:W:278:PRO:HA	10:W:357:ARG:NE	2.28	0.48
10:W:405:LYS:HB3	11:X:343:SER:HB2	1.95	0.48
11:X:219:ALA:HB1	11:X:322:HIS:CE1	2.48	0.48
11:X:395:LYS:HD3	11:X:395:LYS:N	2.28	0.48
13:Z:144:VAL:HG21	14:a:178:ARG:NE	2.29	0.48
16:c:136:LEU:HD12	20:u:275:MET:HE1	1.96	0.48
16:c:144:VAL:O	16:c:145:VAL:HB	2.13	0.48
18:f:117:GLU:OE1	18:f:117:GLU:HA	2.12	0.48
18:f:140:LEU:HD23	18:f:140:LEU:C	2.39	0.48
18:f:323:ASN:OD1	18:f:326:LEU:HD13	2.13	0.48
18:f:852:VAL:HG23	18:f:859:PRO:CB	2.42	0.48
19:g:158:LEU:HD23	19:g:169:PHE:HB3	1.95	0.48
20:u:196:ILE:C	20:u:197:PHE:HD1	2.22	0.48
22:A:55:LEU:HD11	23:B:76:GLU:OE1	2.13	0.48
22:A:325:ASP:C	22:A:325:ASP:OD1	2.56	0.48
23:B:433:GLY:O	23:B:434:THR:HG23	2.13	0.48
24:E:168:LYS:O	24:E:168:LYS:HG2	2.13	0.48
25:F:61:ARG:O	25:F:65:GLU:HG3	2.12	0.48
25:F:120:LYS:HD3	25:F:120:LYS:N	2.29	0.48
25:F:375:VAL:CG2	25:F:420:TYR:HE2	2.25	0.48
27:U:357:LYS:HZ2	27:U:389:ASN:HD22	1.60	0.48
27:U:399:TRP:CZ3	27:U:472:ILE:HG23	2.49	0.48
27:U:633:CYS:O	27:U:636:VAL:HG12	2.14	0.48
27:U:842:LYS:HG3	27:U:846:LYS:CE	2.43	0.48
27:U:902:PRO:HG3	27:U:906:LEU:CB	2.44	0.48
1:C:347:ILE:HG12	1:C:383:PHE:HB3	1.95	0.48
1:C:362:VAL:HG23	1:C:390:VAL:CG1	2.43	0.48
3:G:97:GLU:OE1	3:G:97:GLU:HA	2.14	0.48
6:J:41:VAL:HB	6:J:134:VAL:CG2	2.44	0.48
6:J:104:VAL:HG21	6:J:135:GLY:O	2.14	0.48
6:J:144:LEU:C	6:J:144:LEU:HD12	2.39	0.48
9:V:101:LEU:HA	9:V:104:THR:HG22	1.95	0.48
9:V:281:ASN:OD1	9:V:282:ASN:N	2.47	0.48
10:W:315:MET:HE2	10:W:358:VAL:CG2	2.36	0.48
11:X:109:LEU:HA	11:X:112:GLU:HG2	1.94	0.48
11:X:282:ARG:HA	11:X:285:GLU:CD	2.39	0.48
12:Y:117:LYS:HB2	12:Y:151:TYR:CE2	2.48	0.48
13:Z:78:MET:CE	16:c:98:MET:HE3	2.43	0.48
14:a:44:PHE:O	14:a:47:ASP:HB3	2.14	0.48
14:a:303:THR:HG22	14:a:306:GLU:CD	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:325:ASP:OD2	14:a:328:ASP:HB2	2.13	0.48
16:c:249:LEU:HD11	16:c:253:LYS:NZ	2.29	0.48
17:d:251:ILE:O	17:d:251:ILE:HG13	2.13	0.48
18:f:89:MET:O	18:f:91:SER:N	2.46	0.48
18:f:90:THR:CG2	23:B:412:MET:H	2.26	0.48
18:f:223:GLU:OE1	18:f:223:GLU:N	2.42	0.48
18:f:237:VAL:HB	18:f:249:LEU:CD2	2.44	0.48
18:f:829:MET:SD	18:f:829:MET:N	2.86	0.48
22:A:83:ASP:CB	23:B:136:LEU:HD12	2.43	0.48
22:A:135:GLU:HG3	22:A:138:MET:SD	2.53	0.48
23:B:216:ILE:HG22	23:B:217:LYS:N	2.29	0.48
24:E:361:PHE:HE1	24:E:366:ASP:CB	2.27	0.48
25:F:81:LYS:HB2	25:F:81:LYS:HE2	1.44	0.48
25:F:188:ILE:HG12	25:F:235:LEU:HD23	1.94	0.48
26:K:38:ILE:HD11	26:K:202:LEU:HD13	1.96	0.48
26:K:190:THR:HG23	26:K:192:LYS:N	2.29	0.48
1:C:151:ILE:HG12	1:C:198:LEU:HD21	1.95	0.48
1:C:250:GLU:OE1	1:C:250:GLU:HA	2.14	0.48
1:C:351:MET:HE3	1:C:354:ALA:HB1	1.94	0.48
3:G:52:THR:HG22	3:G:216:GLU:O	2.13	0.48
3:G:178:PHE:HD2	3:G:201:CYS:HG	1.62	0.48
4:H:35:SER:O	4:H:162:ALA:HA	2.14	0.48
4:H:46:LEU:HD13	4:H:75:VAL:HG22	1.95	0.48
4:H:77:SER:OG	4:H:163:MET:HB2	2.14	0.48
4:H:79:MET:O	4:H:132:VAL:HG11	2.13	0.48
7:L:184:LEU:HD11	7:L:214:ILE:CG2	2.38	0.48
7:L:196:ARG:HH12	7:L:239:ARG:HA	1.79	0.48
8:M:194:ALA:HB2	8:M:213:LEU:HD21	1.96	0.48
9:V:111:TYR:CE1	9:V:141:THR:HG21	2.49	0.48
9:V:236:ARG:HA	9:V:236:ARG:NE	2.28	0.48
9:V:309:MET:HE1	9:V:331:LEU:HB3	1.96	0.48
9:V:443:ARG:HG2	17:d:277:LYS:HE2	1.96	0.48
10:W:289:ARG:NE	10:W:289:ARG:HA	2.28	0.48
10:W:416:GLN:O	10:W:416:GLN:HG2	2.13	0.48
11:X:57:LEU:HD22	11:X:66:LEU:CG	2.44	0.48
11:X:70:LEU:CA	11:X:73:VAL:HG22	2.44	0.48
11:X:187:ARG:NH1	11:X:190:LEU:HD23	2.28	0.48
12:Y:22:LEU:HD11	12:Y:40:GLU:CB	2.33	0.48
13:Z:53:SER:OG	13:Z:54:PHE:N	2.46	0.48
14:a:77:VAL:O	14:a:81:LEU:N	2.36	0.48
14:a:329:LYS:CG	14:a:329:LYS:O	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c:176:GLN:NE2	27:U:398:ASN:HD22	2.11	0.48
18:f:78:LEU:CD1	18:f:125:ILE:HG21	2.43	0.48
18:f:128:VAL:HG21	18:f:154:TRP:CE3	2.49	0.48
18:f:300:ARG:HH22	18:f:897:PHE:HE2	1.61	0.48
18:f:315:GLU:O	18:f:319:GLU:N	2.28	0.48
18:f:332:ALA:HA	18:f:335:ARG:NE	2.22	0.48
18:f:398:TRP:HD1	18:f:401:LYS:HE3	1.78	0.48
18:f:402:ASN:HB3	18:f:406:GLY:CA	2.41	0.48
18:f:718:ASP:CB	18:f:721:VAL:HG12	2.42	0.48
18:f:734:SER:HA	18:f:768:LEU:O	2.13	0.48
18:f:803:PHE:CD1	18:f:810:ILE:HG13	2.48	0.48
18:f:844:VAL:CG2	18:f:870:THR:HG23	2.44	0.48
22:A:409:PHE:O	22:A:412:ALA:N	2.47	0.48
22:A:433:ASN:HB3	26:K:82:ILE:HD11	1.96	0.48
23:B:275:GLU:OE1	23:B:275:GLU:HA	2.14	0.48
26:K:228:MET:N	26:K:228:MET:SD	2.86	0.48
27:U:408:LEU:HD11	27:U:426:TYR:CD2	2.48	0.48
27:U:533:VAL:O	27:U:537:GLN:OE1	2.32	0.48
27:U:847:GLU:O	27:U:851:GLU:HG2	2.14	0.48
1:C:278:ASN:OD1	1:C:282:GLY:HA3	2.14	0.48
1:C:281:ASP:CG	1:C:307:ARG:HH22	2.21	0.48
2:D:239:TYR:O	2:D:240:LEU:C	2.57	0.48
3:G:10:ASP:OD2	3:G:24:GLN:NE2	2.47	0.48
3:G:207:SER:O	3:G:207:SER:OG	2.30	0.48
6:J:26:VAL:HG21	6:J:130:SER:CB	2.44	0.48
6:J:221:ASN:C	6:J:223:GLU:H	2.22	0.48
7:L:49:LEU:HB2	7:L:195:LEU:HD22	1.94	0.48
7:L:150:SER:O	7:L:150:SER:OG	2.28	0.48
8:M:110:HIS:NE2	8:M:114:ARG:HD2	2.28	0.48
9:V:75:ILE:C	9:V:79:VAL:HG23	2.39	0.48
9:V:318:GLN:HG3	9:V:319:HIS:N	2.29	0.48
9:V:452:ASN:C	9:V:452:ASN:OD1	2.57	0.48
10:W:31:CYS:HA	10:W:43:VAL:HG22	1.95	0.48
10:W:214:PHE:C	10:W:219:THR:HG21	2.38	0.48
10:W:424:LEU:HD13	13:Z:248:ALA:CB	2.44	0.48
11:X:57:LEU:HD13	11:X:66:LEU:HD13	1.96	0.48
11:X:354:ILE:HG22	11:X:356:LEU:HB2	1.95	0.48
12:Y:190:ALA:HB2	12:Y:287:LEU:CD1	2.44	0.48
13:Z:23:PHE:CD2	13:Z:126:VAL:CG1	2.97	0.48
14:a:44:PHE:HA	14:a:47:ASP:CB	2.43	0.48
14:a:135:ILE:HG21	14:a:155:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:131:THR:OG1	27:U:26:LYS:HE2	2.13	0.48
17:d:148:LEU:O	17:d:152:ALA:N	2.37	0.48
18:f:173:LEU:CD2	18:f:181:ARG:HG3	2.44	0.48
18:f:189:LYS:HZ2	18:f:216:MET:HE3	1.79	0.48
18:f:205:CYS:SG	18:f:217:LEU:HD21	2.54	0.48
18:f:433:LEU:HD23	19:g:173:GLU:HA	1.96	0.48
18:f:447:ALA:CA	18:f:450:ILE:HG22	2.40	0.48
18:f:482:ILE:HG21	18:f:504:VAL:HG11	1.95	0.48
18:f:592:ASN:O	18:f:596:ASP:HB2	2.13	0.48
18:f:832:THR:OG1	18:f:840:LEU:O	2.32	0.48
18:f:844:VAL:HG21	18:f:870:THR:CG2	2.44	0.48
21:v:11:ALA:O	21:v:12:UNK:C	2.62	0.48
22:A:186:LYS:HE3	22:A:341:ILE:HG23	1.95	0.48
22:A:426:THR:CG2	22:A:430:MET:HE3	2.41	0.48
23:B:184:TYR:HD1	23:B:238:ALA:HB1	1.79	0.48
23:B:380:LEU:O	23:B:384:ILE:HG13	2.14	0.48
24:E:56:ILE:HB	24:E:100:LEU:CD1	2.44	0.48
24:E:335:SER:HB3	24:E:338:PHE:CD2	2.49	0.48
25:F:280:PRO:HB3	25:F:325:GLN:HB3	1.96	0.48
26:K:113:THR:HG23	26:K:143:PHE:HD2	1.79	0.48
27:U:35:TRP:CD1	27:U:70:HIS:HD2	2.32	0.48
27:U:352:ILE:HG21	27:U:376:MET:HE1	1.96	0.48
1:C:222:LYS:HG3	1:C:223:PHE:N	2.29	0.48
2:D:231:VAL:HG11	24:E:262:ASN:CG	2.39	0.48
2:D:282:ASP:HA	2:D:285:VAL:CG1	2.43	0.48
4:H:69:THR:CG2	4:H:94:ALA:HB1	2.43	0.48
6:J:9:VAL:HA	26:K:23:GLN:NE2	2.28	0.48
6:J:127:PHE:O	6:J:149:PRO:HB3	2.14	0.48
8:M:69:VAL:CG2	8:M:75:MET:HE2	2.44	0.48
10:W:275:ILE:HD11	10:W:306:LEU:HA	1.95	0.48
11:X:96:PHE:CZ	11:X:109:LEU:HD13	2.49	0.48
12:Y:26:LEU:O	12:Y:32:ARG:HA	2.13	0.48
12:Y:70:LEU:O	12:Y:74:LYS:N	2.26	0.48
12:Y:104:MET:HE2	12:Y:104:MET:HB2	1.74	0.48
13:Z:5:ALA:HB3	13:Z:46:LYS:NZ	2.29	0.48
13:Z:223:ASN:HB3	13:Z:225:GLN:O	2.13	0.48
13:Z:251:LEU:O	13:Z:255:ASP:HB2	2.13	0.48
14:a:100:THR:HB	14:a:103:LYS:HE2	1.95	0.48
16:c:279:ASP:O	16:c:280:PRO:C	2.55	0.48
16:c:299:CYS:SG	17:d:339:VAL:HG21	2.54	0.48
17:d:98:LEU:HB2	17:d:115:GLU:CG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:426:LEU:HD12	19:g:169:PHE:HZ	1.71	0.48
18:f:646:MET:HE3	18:f:650:GLN:HG3	1.95	0.48
18:f:658:ALA:CA	18:f:697:ILE:HD11	2.43	0.48
19:g:89:LEU:HD22	19:g:155:VAL:HG11	1.96	0.48
19:g:131:ILE:CG2	19:g:147:VAL:HG22	2.35	0.48
23:B:246:THR:CG2	23:B:280:SER:HB2	2.44	0.48
25:F:266:LYS:CE	25:F:267:LEU:HD22	2.44	0.48
26:K:31:ILE:CD1	26:K:140:ALA:CB	2.89	0.48
27:U:78:LEU:HD23	27:U:100:ILE:HG23	1.95	0.48
27:U:422:LEU:HG	27:U:426:TYR:CZ	2.48	0.48
27:U:458:ILE:HD12	27:U:481:LEU:HD12	1.95	0.48
27:U:471:ASP:O	27:U:474:ARG:N	2.46	0.48
27:U:670:ASN:O	27:U:674:PRO:HD3	2.14	0.48
1:C:72:TYR:CD1	2:D:111:TYR:HE1	2.32	0.47
1:C:187:LEU:HD11	1:C:295:THR:HG22	1.95	0.47
1:C:308:PRO:O	23:B:393:ALA:HB1	2.14	0.47
3:G:143:ILE:CG2	3:G:222:VAL:HG22	2.44	0.47
5:I:135:LEU:CG	5:I:164:ILE:HD11	2.44	0.47
6:J:144:LEU:HG	6:J:156:TRP:O	2.14	0.47
8:M:186:CYS:HA	8:M:189:ILE:CB	2.27	0.47
8:M:194:ALA:O	8:M:197:ILE:HG22	2.14	0.47
9:V:75:ILE:HG22	9:V:79:VAL:CG2	2.43	0.47
9:V:497:PRO:HG3	13:Z:282:ASN:CB	2.44	0.47
10:W:136:ILE:HA	10:W:139:GLU:OE2	2.13	0.47
10:W:201:ARG:O	10:W:204:ILE:N	2.47	0.47
11:X:362:GLU:OE2	11:X:378:LEU:HD13	2.14	0.47
13:Z:136:GLU:HG3	13:Z:138:TYR:CZ	2.49	0.47
14:a:61:GLU:HG3	14:a:79:ILE:CD1	2.44	0.47
14:a:313:LYS:HE2	14:a:317:VAL:CG2	2.45	0.47
14:a:319:LEU:HD12	14:a:319:LEU:H	1.79	0.47
15:b:79:GLN:CD	15:b:81:LYS:HE3	2.39	0.47
18:f:90:THR:HG21	23:B:413:LYS:N	2.29	0.47
18:f:416:MET:HB2	18:f:450:ILE:CD1	2.44	0.47
19:g:83:ALA:HB3	19:g:149:HIS:HB2	1.96	0.47
19:g:89:LEU:HD12	19:g:99:ASN:CG	2.39	0.47
22:A:39:SER:O	22:A:41:TYR:N	2.47	0.47
22:A:83:ASP:OD1	23:B:137:SER:HB3	2.14	0.47
23:B:250:VAL:HG21	23:B:284:ILE:HG12	1.96	0.47
23:B:313:LEU:HD23	23:B:313:LEU:C	2.38	0.47
25:F:198:LEU:HD23	25:F:198:LEU:O	2.14	0.47
26:K:67:ILE:HG12	26:K:216:GLU:OE1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:197:SER:O	26:K:201:ILE:HG13	2.15	0.47
27:U:351:MET:CE	27:U:354:LYS:HD3	2.44	0.47
27:U:498:LYS:NZ	27:U:531:ASP:OD2	2.40	0.47
27:U:665:ASN:O	27:U:666:LYS:HB3	2.13	0.47
27:U:885:MET:HB3	27:U:886:PRO:HD2	1.96	0.47
1:C:31:LEU:HD12	1:C:35:VAL:HG13	1.95	0.47
1:C:368:MET:CB	2:D:329:ARG:HH22	2.25	0.47
1:C:368:MET:HE2	2:D:179:GLU:OE1	2.14	0.47
2:D:269:ALA:HB2	24:E:258:MET:SD	2.54	0.47
3:G:143:ILE:CD1	3:G:220:VAL:HG22	2.43	0.47
4:H:177:ARG:HG2	4:H:177:ARG:O	2.14	0.47
6:J:70:CYS:SG	6:J:134:VAL:HG13	2.54	0.47
10:W:370:TYR:CE2	10:W:373:ILE:HD12	2.49	0.47
11:X:84:LYS:O	11:X:88:LEU:HG	2.14	0.47
11:X:93:LEU:CD1	11:X:132:ARG:HG2	2.44	0.47
11:X:253:TYR:CD1	11:X:253:TYR:N	2.81	0.47
11:X:339:ILE:CG2	11:X:387:ILE:HG13	2.43	0.47
12:Y:41:LEU:HD21	12:Y:57:LEU:HD11	1.95	0.47
12:Y:57:LEU:HD23	12:Y:57:LEU:C	2.40	0.47
12:Y:282:MET:HB3	12:Y:292:TYR:HB2	1.96	0.47
12:Y:376:LEU:HD12	12:Y:376:LEU:C	2.39	0.47
14:a:262:ALA:HA	14:a:265:GLU:HG2	1.96	0.47
17:d:102:TRP:CD2	17:d:150:ILE:HG12	2.49	0.47
18:f:136:GLU:HA	18:f:139:CYS:HB3	1.96	0.47
18:f:254:GLY:O	18:f:257:ARG:HB2	2.14	0.47
18:f:452:ASN:CB	18:f:488:ALA:HB1	2.44	0.47
18:f:550:LEU:O	18:f:555:ALA:HB3	2.15	0.47
18:f:560:LEU:HD12	18:f:801:VAL:HG21	1.96	0.47
18:f:613:LEU:C	18:f:613:LEU:HD23	2.39	0.47
18:f:726:ILE:HG21	18:f:762:VAL:CA	2.45	0.47
18:f:846:VAL:HB	18:f:868:HIS:HD2	1.79	0.47
19:g:165:ALA:C	19:g:167:LYS:N	2.66	0.47
23:B:271:PHE:HE2	23:B:312:LEU:HD12	1.78	0.47
24:E:353:PHE:CE2	24:E:373:LYS:HD3	2.49	0.47
25:F:134:LEU:CD1	25:F:160:ILE:HG12	2.44	0.47
25:F:226:TYR:CB	25:F:335:VAL:HG21	2.44	0.47
27:U:328:ILE:CG2	27:U:333:MET:HE3	2.44	0.47
27:U:490:ARG:HB2	27:U:493:VAL:CG1	2.44	0.47
27:U:521:LEU:HD12	27:U:522:GLY:H	1.76	0.47
27:U:772:TRP:HA	27:U:772:TRP:CE3	2.49	0.47
2:D:184:PRO:CG	2:D:306:LYS:HZ1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:284:GLU:O	2:D:284:GLU:HG3	2.14	0.47
3:G:155:ASP:HB2	3:G:156:PRO:HD2	1.97	0.47
4:H:105:ILE:CD1	4:H:113:ARG:HH12	2.27	0.47
5:I:198:ASN:HB3	5:I:199:LYS:HZ3	1.79	0.47
7:L:24:TYR:O	7:L:27:GLU:N	2.45	0.47
7:L:192:LEU:O	7:L:205:LEU:HD11	2.13	0.47
8:M:95:ALA:O	8:M:98:PHE:N	2.47	0.47
9:V:405:THR:O	9:V:408:ARG:N	2.47	0.47
10:W:382:LEU:O	10:W:383:ASP:HB2	2.14	0.47
13:Z:106:ILE:HD12	13:Z:153:LYS:HB3	1.96	0.47
13:Z:121:LEU:CD1	13:Z:123:ILE:HG13	2.44	0.47
13:Z:139:ILE:HG22	13:Z:140:SER:N	2.27	0.47
14:a:374:ILE:HD13	17:d:347:GLU:CG	2.44	0.47
16:c:22:ALA:O	27:U:398:ASN:ND2	2.48	0.47
18:f:56:LEU:HB3	18:f:99:LEU:CD2	2.44	0.47
18:f:188:VAL:HA	18:f:191:ILE:CG2	2.44	0.47
18:f:231:LEU:HD21	18:f:853:VAL:CA	2.44	0.47
18:f:263:PRO:HG2	18:f:890:VAL:O	2.14	0.47
18:f:376:PHE:O	18:f:379:GLY:N	2.36	0.47
18:f:422:VAL:CA	18:f:426:LEU:HD23	2.42	0.47
18:f:735:GLY:CA	18:f:774:GLY:HA2	2.41	0.47
18:f:828:ARG:HG2	18:f:874:LEU:O	2.15	0.47
19:g:96:ASP:O	19:g:97:ARG:C	2.57	0.47
19:g:112:LEU:HD23	19:g:136:LEU:HD13	1.95	0.47
22:A:284:ARG:CZ	22:A:284:ARG:HB2	2.43	0.47
22:A:287:ASP:CG	22:A:287:ASP:O	2.58	0.47
22:A:306:LEU:CD2	22:A:317:VAL:HG21	2.44	0.47
22:A:348:LEU:HD13	26:K:175:GLU:HB2	1.96	0.47
23:B:187:ILE:HG22	23:B:234:LEU:CG	2.43	0.47
24:E:262:ASN:O	24:E:266:GLY:HA3	2.14	0.47
26:K:119:LEU:O	26:K:119:LEU:HD12	2.14	0.47
27:U:444:TYR:CE1	27:U:448:LEU:HD21	2.48	0.47
27:U:664:GLY:HA3	27:U:698:GLN:OE1	2.15	0.47
27:U:699:THR:HG21	27:U:812:ALA:N	2.29	0.47
1:C:213:ARG:NE	2:D:300:ASP:OD2	2.47	0.47
1:C:316:GLU:OE2	1:C:316:GLU:N	2.39	0.47
1:C:330:LYS:HB2	1:C:330:LYS:NZ	2.29	0.47
1:C:362:VAL:CG2	1:C:390:VAL:HG11	2.41	0.47
2:D:412:GLN:NE2	24:E:283:ASP:HA	2.28	0.47
4:H:74:LEU:HB3	4:H:134:LEU:HD21	1.95	0.47
5:I:35:LEU:HD23	5:I:197:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:211:VAL:HG22	5:I:212:GLU:N	2.29	0.47
6:J:65:LEU:CD2	6:J:84:ILE:HG13	2.44	0.47
7:L:46:LEU:HD13	7:L:73:SER:HB2	1.96	0.47
8:M:72:HIS:HE2	8:M:105:ASN:HB3	1.78	0.47
9:V:65:ARG:HB3	9:V:65:ARG:CZ	2.44	0.47
9:V:254:LEU:O	9:V:257:ASN:HB3	2.15	0.47
9:V:425:LYS:O	9:V:426:LEU:HD12	2.14	0.47
10:W:60:MET:HE3	10:W:60:MET:N	2.15	0.47
10:W:169:LEU:HD23	10:W:171:VAL:CG1	2.45	0.47
10:W:296:LEU:CD2	10:W:303:LYS:HD2	2.44	0.47
11:X:57:LEU:HD21	11:X:62:GLN:HB2	1.97	0.47
11:X:57:LEU:HD11	11:X:65:GLU:CB	2.44	0.47
11:X:224:ASP:C	11:X:224:ASP:OD1	2.57	0.47
13:Z:34:ARG:NH1	13:Z:102:HIS:HB2	2.28	0.47
13:Z:149:THR:HG23	13:Z:150:PRO:CD	2.38	0.47
14:a:161:LYS:O	14:a:164:GLN:CG	2.63	0.47
15:b:75:LEU:HD23	15:b:75:LEU:HA	1.77	0.47
15:b:115:SER:OG	15:b:116:PRO:HD2	2.15	0.47
16:c:211:GLU:OE2	16:c:215:LYS:NZ	2.40	0.47
18:f:426:LEU:HB3	19:g:156:LEU:HD21	1.96	0.47
19:g:105:LEU:HG	19:g:149:HIS:ND1	2.29	0.47
22:A:190:VAL:HG13	22:A:209:PRO:O	2.14	0.47
22:A:399:ALA:O	22:A:401:ARG:N	2.40	0.47
23:B:201:VAL:CG2	23:B:239:VAL:HG21	2.44	0.47
23:B:333:ARG:HG2	23:B:333:ARG:HH11	1.78	0.47
24:E:277:MET:HE1	24:E:295:LEU:HD12	1.96	0.47
25:F:294:LYS:HE2	25:F:337:ILE:O	2.14	0.47
26:K:108:THR:HG22	26:K:110:GLU:H	1.79	0.47
27:U:337:LEU:HD12	27:U:789:ILE:HG21	1.96	0.47
27:U:342:LEU:O	27:U:346:ASN:HB2	2.14	0.47
27:U:481:LEU:HD11	27:U:493:VAL:HG23	1.97	0.47
1:C:287:LYS:HB2	1:C:287:LYS:HE2	1.60	0.47
1:C:328:ILE:HG22	1:C:359:VAL:CG1	2.45	0.47
1:C:329:LEU:HD22	1:C:344:LEU:HD22	1.97	0.47
2:D:97:ASP:OD1	2:D:97:ASP:C	2.57	0.47
2:D:355:SER:CB	2:D:395:LEU:HD23	2.45	0.47
3:G:78:CYS:HA	3:G:139:ILE:O	2.14	0.47
5:I:82:ASP:CG	5:I:128:ARG:HH12	2.19	0.47
6:J:34:GLY:O	6:J:158:ALA:HA	2.14	0.47
7:L:13:TRP:HZ3	7:L:17:GLY:O	1.97	0.47
7:L:116:THR:C	7:L:119:PRO:HD2	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:449:ALA:HB1	9:V:459:GLN:O	2.15	0.47
10:W:267:LEU:HD23	10:W:270:VAL:CG1	2.43	0.47
10:W:296:LEU:HD23	10:W:303:LYS:CD	2.43	0.47
11:X:173:GLU:C	11:X:176:THR:HG22	2.40	0.47
12:Y:297:ARG:CB	12:Y:297:ARG:NH1	2.77	0.47
14:a:280:MET:CE	14:a:299:SER:HB2	2.44	0.47
14:a:295:GLU:HA	14:a:298:LYS:HE3	1.95	0.47
15:b:80:PRO:CD	15:b:81:LYS:HE2	2.44	0.47
15:b:119:ASP:H	15:b:152:LYS:NZ	2.13	0.47
16:c:143:VAL:HG12	16:c:144:VAL:H	1.79	0.47
18:f:350:LYS:HD3	18:f:353:LEU:HB2	1.96	0.47
18:f:398:TRP:HA	18:f:401:LYS:HE3	1.95	0.47
18:f:496:ASP:OD1	18:f:496:ASP:N	2.47	0.47
18:f:560:LEU:CD1	18:f:801:VAL:HG21	2.44	0.47
22:A:158:ASP:HB2	22:A:259:GLU:OE1	2.14	0.47
22:A:366:ARG:O	22:A:367:ASP:CB	2.62	0.47
22:A:398:ARG:NH2	23:B:349:ARG:HH22	2.11	0.47
23:B:133:VAL:CG1	23:B:157:HIS:HB3	2.45	0.47
24:E:152:PRO:HG3	24:E:274:LYS:HE2	1.95	0.47
24:E:182:LEU:O	24:E:182:LEU:HD12	2.15	0.47
27:U:69:TYR:CE2	27:U:96:TYR:HB2	2.49	0.47
27:U:815:ALA:HB1	27:U:816:PRO:HD2	1.94	0.47
1:C:58:LEU:HD12	1:C:58:LEU:O	2.14	0.47
1:C:207:THR:HG23	1:C:209:CYS:N	2.25	0.47
2:D:192:LYS:HG2	2:D:192:LYS:O	2.15	0.47
3:G:31:ALA:HA	8:M:18:GLY:O	2.15	0.47
3:G:152:TYR:HE2	4:H:61:SER:HG	1.61	0.47
3:G:240:VAL:CG2	10:W:94:ARG:HD3	2.45	0.47
4:H:135:LEU:HD22	4:H:146:LEU:CD2	2.41	0.47
5:I:108:GLU:HA	5:I:148:TYR:CE2	2.49	0.47
7:L:88:MET:HE1	7:L:134:ILE:HG12	1.96	0.47
9:V:90:GLU:CG	9:V:92:ARG:HB2	2.45	0.47
9:V:99:ARG:O	9:V:102:PRO:HD2	2.14	0.47
9:V:264:TYR:HD1	9:V:295:ILE:CD1	2.27	0.47
10:W:270:VAL:HG22	10:W:290:ILE:CD1	2.43	0.47
11:X:74:ARG:HG2	11:X:74:ARG:HH11	1.79	0.47
11:X:90:ARG:NH1	11:X:128:ALA:HB1	2.29	0.47
11:X:419:LYS:HE3	11:X:419:LYS:CA	2.31	0.47
12:Y:97:GLU:CA	12:Y:100:ILE:HG12	2.44	0.47
12:Y:348:ASP:OD2	12:Y:351:ASN:HB2	2.14	0.47
13:Z:34:ARG:HH21	13:Z:96:HIS:CD2	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z:152:SER:OG	13:Z:153:LYS:N	2.48	0.47
13:Z:179:ILE:HD12	16:c:218:LEU:HD11	1.96	0.47
13:Z:227:ILE:HD11	14:a:346:ILE:CD1	2.44	0.47
14:a:137:ASP:HA	14:a:140:GLU:OE1	2.14	0.47
15:b:173:VAL:HG21	15:b:183:LEU:HD11	1.97	0.47
16:c:196:LEU:HD23	16:c:197:ASN:N	2.30	0.47
17:d:129:LEU:HD12	27:U:26:LYS:HG2	1.96	0.47
17:d:150:ILE:O	17:d:154:TRP:N	2.43	0.47
18:f:275:MET:HA	18:f:275:MET:CE	2.37	0.47
18:f:398:TRP:CD1	18:f:401:LYS:HE3	2.50	0.47
18:f:423:ASP:HA	19:g:156:LEU:HD12	1.96	0.47
18:f:524:MET:HA	18:f:527:VAL:HG13	1.95	0.47
18:f:830:LEU:HB3	18:f:872:VAL:H	1.80	0.47
19:g:91:PRO:O	19:g:94:LYS:HD3	2.14	0.47
23:B:383:LEU:HD21	23:B:419:PHE:CB	2.33	0.47
24:E:121:ASN:C	24:E:123:SER:N	2.72	0.47
25:F:245:LYS:HD3	25:F:245:LYS:N	2.28	0.47
26:K:94:VAL:HG12	26:K:98:ASN:ND2	2.30	0.47
27:U:44:LYS:O	27:U:48:LEU:HD13	2.14	0.47
27:U:117:ASP:HB2	27:U:118:LEU:HD22	1.95	0.47
27:U:405:THR:HG22	27:U:427:LEU:HG	1.96	0.47
27:U:615:ARG:NE	27:U:645:ASN:HD21	2.11	0.47
1:C:57:ARG:O	1:C:61:GLU:HB2	2.13	0.47
1:C:140:VAL:HB	1:C:211:PHE:O	2.14	0.47
1:C:277:LEU:HD22	1:C:310:ARG:CZ	2.44	0.47
1:C:347:ILE:HD11	1:C:380:GLN:OE1	2.14	0.47
2:D:266:GLU:OE2	24:E:262:ASN:HB2	2.15	0.47
3:G:22:LEU:HB3	3:G:25:VAL:HG23	1.97	0.47
3:G:54:LYS:HE2	3:G:56:VAL:CG2	2.45	0.47
3:G:80:MET:CB	3:G:87:SER:HB2	2.44	0.47
4:H:44:VAL:O	4:H:213:CYS:N	2.32	0.47
4:H:87:VAL:O	4:H:90:ALA:HB3	2.15	0.47
4:H:219:ARG:NH2	4:H:225:GLU:OE1	2.47	0.47
5:I:10:THR:HG21	5:I:125:GLY:CA	2.44	0.47
5:I:143:TYR:HB2	5:I:146:GLN:NE2	2.28	0.47
6:J:45:VAL:CG2	6:J:62:ILE:HD11	2.45	0.47
6:J:68:ASN:HB2	6:J:137:ASP:CG	2.39	0.47
6:J:79:ASP:CG	6:J:125:ARG:HH12	2.22	0.47
7:L:166:GLN:NE2	25:F:380:ASN:HD22	2.13	0.47
8:M:122:TYR:CD2	8:M:131:PHE:HE1	2.32	0.47
9:V:73:GLU:O	9:V:77:GLU:N	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:109:ASN:H	9:V:112:VAL:HG23	1.79	0.47
9:V:110:HIS:CG	9:V:136:GLU:HB2	2.49	0.47
9:V:151:THR:H	9:V:154:ALA:HB3	1.80	0.47
9:V:176:MET:HG2	9:V:217:VAL:HG12	1.95	0.47
9:V:216:ARG:O	9:V:219:GLU:HB3	2.15	0.47
9:V:300:LEU:CD1	17:d:205:VAL:HG13	2.45	0.47
9:V:324:PHE:CE1	9:V:328:VAL:HG23	2.50	0.47
9:V:490:SER:OG	13:Z:271:ALA:HB1	2.15	0.47
10:W:136:ILE:HG23	10:W:139:GLU:OE2	2.14	0.47
10:W:151:THR:O	10:W:155:GLN:HG3	2.15	0.47
10:W:166:LEU:HG	10:W:189:GLN:HG2	1.97	0.47
11:X:57:LEU:HD23	11:X:57:LEU:C	2.40	0.47
11:X:70:LEU:HD13	11:X:92:LEU:HB3	1.96	0.47
11:X:253:TYR:N	11:X:253:TYR:HD1	2.13	0.47
11:X:397:TYR:CZ	13:Z:258:VAL:HG11	2.50	0.47
12:Y:95:LEU:HD12	12:Y:99:GLU:HG3	1.95	0.47
12:Y:138:LEU:CD2	12:Y:167:LEU:HG	2.44	0.47
12:Y:146:ARG:CZ	12:Y:146:ARG:HB2	2.44	0.47
12:Y:148:GLY:O	12:Y:152:MET:N	2.48	0.47
12:Y:271:PHE:CE2	12:Y:303:ALA:HB2	2.50	0.47
13:Z:9:VAL:HG21	13:Z:120:VAL:HG21	1.95	0.47
13:Z:193:ASN:O	13:Z:193:ASN:ND2	2.44	0.47
13:Z:200:GLY:O	13:Z:203:SER:N	2.48	0.47
14:a:100:THR:HA	14:a:103:LYS:HD3	1.96	0.47
14:a:274:LEU:HD21	14:a:278:MET:HE1	1.97	0.47
14:a:291:LEU:HA	14:a:295:GLU:OE2	2.14	0.47
14:a:360:VAL:HA	16:c:308:VAL:HG22	1.96	0.47
15:b:35:ILE:CG2	15:b:184:ILE:HG22	2.38	0.47
15:b:109:ILE:O	15:b:139:ASP:N	2.34	0.47
16:c:227:GLU:HA	16:c:227:GLU:OE2	2.15	0.47
17:d:275:ILE:HA	17:d:279:TYR:CD2	2.50	0.47
18:f:202:HIS:NE2	18:f:854:GLY:HA2	2.30	0.47
18:f:264:GLU:CG	18:f:892:PRO:HG3	2.44	0.47
18:f:319:GLU:OE2	18:f:320:ILE:HG13	2.13	0.47
18:f:342:PRO:HG2	18:f:389:LYS:HG3	1.96	0.47
18:f:376:PHE:HE1	18:f:409:SER:HB3	1.78	0.47
18:f:399:LEU:HD22	18:f:410:ALA:HB1	1.97	0.47
18:f:463:LEU:HD23	18:f:463:LEU:C	2.40	0.47
18:f:562:LEU:HD23	18:f:566:HIS:HD2	1.80	0.47
18:f:573:ILE:O	18:f:577:LEU:HG	2.15	0.47
18:f:796:LEU:O	18:f:800:LEU:HD23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:803:PHE:CD1	18:f:806:VAL:HG12	2.50	0.47
22:A:194:PRO:HG3	22:A:201:PHE:CE2	2.50	0.47
22:A:333:ARG:HH21	22:A:336:ARG:CZ	2.28	0.47
23:B:204:PRO:HB3	23:B:218:PRO:HB3	1.96	0.47
24:E:42:LYS:HA	24:E:45:ASN:ND2	2.30	0.47
24:E:169:GLY:HA2	24:E:275:MET:O	2.13	0.47
25:F:226:TYR:CE1	25:F:353:GLU:HB2	2.49	0.47
25:F:276:LYS:HD2	25:F:276:LYS:HA	1.65	0.47
27:U:142:LEU:HD21	27:U:166:THR:CG2	2.44	0.47
27:U:330:SER:O	27:U:453:HIS:NE2	2.46	0.47
27:U:792:ASN:OD1	27:U:796:LYS:HG2	2.15	0.47
27:U:842:LYS:C	27:U:846:LYS:HE3	2.39	0.47
1:C:220:VAL:HG21	2:D:287:ARG:HD3	1.97	0.47
1:C:222:LYS:HE3	1:C:222:LYS:HB2	1.77	0.47
1:C:368:MET:HB3	2:D:329:ARG:NH2	2.28	0.47
2:D:282:ASP:OD1	24:E:248:SER:HB2	2.15	0.47
3:G:107:TYR:HE2	3:G:110:PRO:HD3	1.79	0.47
4:H:84:ARG:O	4:H:87:VAL:HG12	2.15	0.47
6:J:2:SER:HA	6:J:5:ARG:NH2	2.30	0.47
7:L:196:ARG:HH22	7:L:239:ARG:H	1.61	0.47
8:M:227:VAL:CB	8:M:232:ARG:HH12	2.27	0.47
9:V:151:THR:N	9:V:154:ALA:HB3	2.29	0.47
9:V:224:LEU:CD2	9:V:257:ASN:HA	2.41	0.47
11:X:46:LYS:HG2	11:X:76:PHE:CD1	2.49	0.47
13:Z:6:VAL:CG2	13:Z:139:ILE:HD11	2.44	0.47
13:Z:106:ILE:HG13	13:Z:153:LYS:HB2	1.97	0.47
13:Z:260:VAL:HG13	16:c:292:MET:HG3	1.95	0.47
14:a:118:ILE:HG12	14:a:122:LYS:CD	2.42	0.47
14:a:132:LYS:HD3	14:a:162:TYR:CE1	2.49	0.47
14:a:138:VAL:O	14:a:142:LEU:N	2.44	0.47
14:a:281:THR:CG2	14:a:335:TRP:CZ3	2.97	0.47
14:a:304:VAL:O	14:a:307:VAL:HG12	2.14	0.47
15:b:179:LEU:HG	15:b:180:ALA:N	2.30	0.47
16:c:118:PHE:C	16:c:121:TRP:HE1	2.23	0.47
18:f:92:VAL:HG12	23:B:410:ARG:HB3	1.97	0.47
18:f:105:LYS:O	18:f:109:ILE:HG22	2.15	0.47
18:f:502:LEU:HD22	18:f:537:THR:CG2	2.44	0.47
18:f:558:LEU:HB2	18:f:559:PRO:HD3	1.95	0.47
18:f:607:LEU:CD1	27:U:835:ILE:HG13	2.45	0.47
22:A:186:LYS:HB3	22:A:186:LYS:NZ	2.29	0.47
22:A:240:VAL:HG11	22:A:274:PHE:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:292:THR:O	23:B:309:MET:HE1	2.15	0.47
24:E:322:LYS:HB2	24:E:361:PHE:HD2	1.79	0.47
25:F:202:ILE:C	25:F:205:PRO:HD2	2.40	0.47
25:F:384:LEU:HD11	25:F:420:TYR:CG	2.49	0.47
26:K:151:PRO:C	26:K:152:GLN:HG2	2.39	0.47
26:K:172:SER:O	26:K:173:ALA:HB3	2.15	0.47
27:U:160:LEU:HD13	27:U:196:LYS:HG2	1.96	0.47
27:U:174:PRO:O	27:U:177:LEU:HB3	2.15	0.47
27:U:398:ASN:O	27:U:401:LYS:HB3	2.15	0.47
27:U:700:GLU:HA	27:U:706:VAL:CG1	2.44	0.47
1:C:205:HIS:HD2	1:C:206:HIS:CD2	2.33	0.47
3:G:72:ILE:CD1	3:G:78:CYS:HB3	2.40	0.47
4:H:128:ARG:HG3	4:H:129:PRO:HD2	1.97	0.47
4:H:155:TYR:HE1	5:I:60:PHE:CZ	2.33	0.47
5:I:218:ARG:NH2	5:I:221:GLY:HA2	2.30	0.47
6:J:227:LYS:O	6:J:231:GLU:N	2.29	0.47
7:L:233:LEU:HD23	7:L:233:LEU:HA	1.75	0.47
8:M:49:VAL:HG12	8:M:66:LEU:HD22	1.97	0.47
9:V:161:PRO:HA	9:V:164:GLU:CG	2.45	0.47
9:V:252:ASN:ND2	9:V:284:GLU:OE1	2.46	0.47
9:V:438:VAL:HG11	9:V:458:VAL:CG2	2.43	0.47
10:W:369:TYR:HB3	14:a:324:ILE:CD1	2.45	0.47
10:W:370:TYR:HE1	14:a:312:MET:CE	2.28	0.47
12:Y:81:LEU:HG	12:Y:110:TYR:CE2	2.50	0.47
12:Y:229:ILE:HA	12:Y:299:MET:CE	2.45	0.47
12:Y:387:ILE:O	12:Y:389:MET:HG2	2.15	0.47
14:a:24:ARG:NE	14:a:24:ARG:O	2.48	0.47
14:a:108:ASP:C	14:a:108:ASP:OD1	2.56	0.47
14:a:111:VAL:HG13	14:a:115:LYS:NZ	2.30	0.47
15:b:41:THR:CG2	15:b:42:ARG:HH11	2.27	0.47
15:b:161:ASN:HD21	15:b:168:SER:N	2.08	0.47
16:c:195:GLY:HA3	16:c:199:HIS:NE2	2.30	0.47
18:f:211:ILE:O	18:f:211:ILE:HG22	2.15	0.47
18:f:379:GLY:O	18:f:383:ALA:N	2.47	0.47
18:f:698:SER:HB2	18:f:706:ILE:HD13	1.96	0.47
19:g:103:THR:OG1	19:g:115:LYS:HD2	2.15	0.47
19:g:112:LEU:CD1	19:g:116:ILE:HG13	2.45	0.47
19:g:112:LEU:HD22	19:g:142:LEU:CG	2.45	0.47
26:K:53:ARG:HG2	26:K:53:ARG:O	2.15	0.47
26:K:99:HIS:CD2	26:K:107:MET:HE3	2.50	0.47
27:U:514:LEU:HD21	27:U:765:VAL:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:680:VAL:HG11	27:U:682:TYR:CE1	2.50	0.47
27:U:748:LEU:HD23	27:U:760:VAL:HA	1.97	0.47
28:e:59:GLU:OE1	28:e:62:LYS:NZ	2.31	0.47
1:C:401:ILE:HD12	4:H:23:GLU:HG2	1.97	0.47
2:D:355:SER:HB3	2:D:395:LEU:HD23	1.97	0.47
3:G:123:GLN:NE2	3:G:127:GLN:HE21	2.08	0.47
4:H:34:PRO:HD2	4:H:49:GLU:HG2	1.97	0.47
5:I:232:GLU:O	5:I:235:GLN:NE2	2.48	0.47
6:J:173:GLU:HG3	26:K:58:LEU:CD1	2.44	0.47
7:L:75:ALA:HB3	7:L:161:ILE:HD12	1.95	0.47
8:M:17:ASP:OD2	8:M:19:ARG:NE	2.47	0.47
8:M:39:ILE:HD11	8:M:176:ILE:CG2	2.45	0.47
8:M:39:ILE:HD13	8:M:162:GLY:HA3	1.96	0.47
8:M:150:MET:C	8:M:150:MET:SD	2.98	0.47
8:M:188:ASP:O	8:M:192:GLU:HG2	2.14	0.47
9:V:111:TYR:CE1	9:V:115:LYS:HG3	2.50	0.47
9:V:264:TYR:CD2	17:d:213:GLU:HG3	2.48	0.47
9:V:407:VAL:HG11	9:V:441:ALA:HB3	1.97	0.47
10:W:396:LEU:HD22	10:W:401:THR:CG2	2.45	0.47
11:X:299:LEU:HD22	11:X:354:ILE:HG23	1.97	0.47
12:Y:41:LEU:CD2	12:Y:57:LEU:HD11	2.44	0.47
12:Y:194:PHE:CE1	12:Y:288:PHE:HE1	2.34	0.47
14:a:123:LEU:HD12	14:a:123:LEU:O	2.14	0.47
14:a:248:PHE:CZ	14:a:249:GLN:HG3	2.50	0.47
15:b:26:LEU:O	15:b:30:GLN:N	2.30	0.47
15:b:55:ALA:O	15:b:56:ASN:HB3	2.14	0.47
16:c:115:HIS:O	16:c:116:PRO:C	2.58	0.47
17:d:99:LYS:HG2	17:d:103:ASN:CG	2.40	0.47
17:d:153:GLN:CA	17:d:156:ILE:HG12	2.45	0.47
17:d:254:GLU:O	17:d:257:THR:N	2.39	0.47
18:f:106:LEU:O	18:f:110:TYR:HB2	2.14	0.47
18:f:149:GLU:HG3	18:f:150:GLU:N	2.30	0.47
18:f:157:GLU:OE2	22:A:36:TYR:OH	2.25	0.47
18:f:333:LEU:HD12	18:f:337:LEU:CD1	2.45	0.47
18:f:646:MET:O	18:f:646:MET:HG3	2.15	0.47
18:f:828:ARG:C	18:f:828:ARG:HD3	2.40	0.47
18:f:840:LEU:HG	18:f:840:LEU:O	2.14	0.47
20:u:189:GLN:OE1	20:u:259:ARG:NE	2.48	0.47
25:F:366:MET:HE2	25:F:366:MET:HB2	1.71	0.47
27:U:115:ASN:HB3	27:U:123:LYS:CG	2.45	0.47
27:U:401:LYS:HE3	27:U:437:TYR:CB	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:415:HIS:H	27:U:449:ILE:HG23	1.80	0.47
1:C:49:ARG:HH12	27:U:639:LEU:C	2.24	0.46
1:C:315:ILE:HG22	1:C:317:PHE:CE1	2.50	0.46
1:C:387:VAL:O	1:C:391:MET:HB3	2.16	0.46
2:D:212:LYS:HB2	31:D:501:ADP:O3B	2.15	0.46
4:H:65:VAL:HG12	4:H:218:PHE:CZ	2.47	0.46
5:I:17:ARG:HG2	6:J:28:LYS:NZ	2.29	0.46
5:I:174:MET:HE1	5:I:196:VAL:HA	1.97	0.46
6:J:198:VAL:O	6:J:201:SER:N	2.47	0.46
9:V:208:ALA:HB2	9:V:246:GLY:HA2	1.97	0.46
9:V:429:ASP:OD1	9:V:430:SER:N	2.48	0.46
10:W:105:VAL:CG1	10:W:106:GLN:N	2.78	0.46
10:W:128:LEU:O	10:W:132:THR:HG23	2.15	0.46
10:W:223:LYS:HD3	10:W:253:THR:HG22	1.96	0.46
11:X:171:LEU:HD23	11:X:209:THR:HG22	1.96	0.46
11:X:180:LEU:O	11:X:181:SER:HB2	2.14	0.46
12:Y:161:THR:HG23	12:Y:184:GLN:OE1	2.15	0.46
12:Y:334:LEU:O	12:Y:338:ILE:HG13	2.15	0.46
13:Z:6:VAL:O	13:Z:158:VAL:HG23	2.14	0.46
14:a:42:LEU:HD11	14:a:78:GLU:HB3	1.97	0.46
14:a:309:LEU:HD12	14:a:312:MET:CB	2.45	0.46
15:b:140:ILE:HG21	15:b:153:LEU:CD2	2.44	0.46
16:c:299:CYS:O	16:c:303:MET:HG2	2.15	0.46
17:d:201:SER:HA	17:d:263:LEU:HD13	1.96	0.46
17:d:331:PRO:HB2	17:d:334:GLU:HB3	1.97	0.46
18:f:280:ASP:O	18:f:284:SER:N	2.35	0.46
18:f:381:VAL:HG22	18:f:770:HIS:HB2	1.97	0.46
19:g:136:LEU:CD2	19:g:147:VAL:HG21	2.42	0.46
23:B:266:LEU:C	23:B:266:LEU:HD23	2.40	0.46
23:B:317:ASP:C	23:B:317:ASP:OD1	2.58	0.46
23:B:375:ALA:HA	23:B:413:LYS:HD2	1.97	0.46
23:B:396:LYS:O	23:B:396:LYS:HG2	2.14	0.46
24:E:65:THR:CG2	24:E:68:LYS:HB2	2.44	0.46
25:F:248:PHE:HD1	25:F:282:ILE:CD1	2.25	0.46
25:F:257:VAL:O	25:F:257:VAL:CG1	2.63	0.46
25:F:266:LYS:HE3	25:F:267:LEU:HD22	1.96	0.46
25:F:383:GLU:HA	25:F:386:ARG:HD3	1.97	0.46
26:K:39:GLY:HA3	26:K:153:LEU:CD2	2.45	0.46
27:U:108:TYR:HB2	27:U:134:VAL:HG21	1.97	0.46
27:U:159:ARG:HB3	27:U:162:VAL:CG1	2.45	0.46
27:U:348:THR:HG22	27:U:741:GLY:HA2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:490:ARG:HB2	27:U:493:VAL:HG12	1.95	0.46
27:U:678:ASP:HB3	27:U:683:VAL:CG1	2.44	0.46
27:U:792:ASN:CB	27:U:914:LEU:HB3	2.39	0.46
2:D:122:GLU:OE1	2:D:122:GLU:N	2.41	0.46
4:H:227:LYS:HD2	4:H:227:LYS:O	2.16	0.46
6:J:58:THR:HA	6:J:60:ARG:HH21	1.80	0.46
7:L:6:TYR:HE1	8:M:9:LEU:CD1	2.28	0.46
7:L:113:GLY:HA2	7:L:116:THR:OG1	2.15	0.46
8:M:84:ALA:HA	8:M:133:CYS:SG	2.55	0.46
8:M:227:VAL:HB	8:M:232:ARG:NH1	2.30	0.46
9:V:232:HIS:CE1	9:V:258:TYR:OH	2.68	0.46
10:W:44:ILE:HG13	10:W:45:GLU:OE1	2.15	0.46
10:W:50:LEU:O	10:W:53:GLN:HB2	2.16	0.46
11:X:86:ALA:O	11:X:90:ARG:HB2	2.15	0.46
11:X:224:ASP:OD1	11:X:227:THR:HB	2.16	0.46
11:X:272:SER:HA	11:X:277:LEU:CD2	2.45	0.46
12:Y:190:ALA:HA	12:Y:291:HIS:NE2	2.29	0.46
13:Z:10:VAL:HG23	13:Z:10:VAL:O	2.15	0.46
13:Z:48:LEU:HD12	13:Z:49:ASP:N	2.31	0.46
13:Z:102:HIS:N	13:Z:105:ASP:OD2	2.47	0.46
13:Z:133:LEU:HA	13:Z:133:LEU:HD12	1.75	0.46
14:a:38:THR:O	14:a:41:VAL:N	2.48	0.46
14:a:39:LEU:O	14:a:43:ASP:HB2	2.14	0.46
14:a:94:LEU:HD21	14:a:118:ILE:CA	2.24	0.46
14:a:277:LEU:HA	14:a:280:MET:CG	2.46	0.46
15:b:16:MET:O	15:b:25:ARG:HD3	2.15	0.46
15:b:153:LEU:O	15:b:156:PHE:HB3	2.15	0.46
16:c:87:VAL:HG11	20:u:278:PHE:HE2	1.80	0.46
17:d:302:TYR:CD1	17:d:306:ARG:HG3	2.46	0.46
18:f:188:VAL:HG11	18:f:211:ILE:CD1	2.45	0.46
18:f:261:ARG:HA	18:f:261:ARG:NE	2.29	0.46
18:f:379:GLY:O	18:f:383:ALA:HB2	2.16	0.46
18:f:439:TYR:C	18:f:439:TYR:CD1	2.93	0.46
18:f:536:SER:O	18:f:540:GLN:HG2	2.14	0.46
18:f:612:LEU:HD22	18:f:660:ILE:CD1	2.40	0.46
18:f:726:ILE:HG13	18:f:762:VAL:CG2	2.35	0.46
22:A:105:ASP:OD1	22:A:105:ASP:N	2.47	0.46
23:B:125:THR:HG22	23:B:126:SER:N	2.30	0.46
24:E:320:ILE:HD12	24:E:347:CYS:SG	2.54	0.46
26:K:68:VAL:O	26:K:76:CYS:N	2.45	0.46
26:K:70:ILE:HB	26:K:74:ILE:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:91:LYS:HG2	26:K:119:LEU:CD2	2.46	0.46
26:K:239:LYS:HG3	26:K:240:ASP:OD1	2.15	0.46
27:U:427:LEU:HD12	27:U:438:GLN:HG2	1.96	0.46
27:U:450:HIS:CG	27:U:457:ILE:HG13	2.50	0.46
27:U:465:LEU:HD12	27:U:477:GLY:C	2.40	0.46
27:U:625:ILE:HG13	27:U:626:LEU:CD2	2.45	0.46
27:U:699:THR:HG1	27:U:701:ILE:HG22	1.80	0.46
1:C:100:ASP:OD1	1:C:101:LYS:HD3	2.15	0.46
1:C:277:LEU:HD21	1:C:304:ALA:C	2.40	0.46
3:G:10:ASP:C	3:G:12:HIS:H	2.24	0.46
3:G:49:VAL:CG2	3:G:195:VAL:HG22	2.43	0.46
5:I:217:THR:O	5:I:223:THR:HA	2.16	0.46
7:L:49:LEU:HD12	7:L:49:LEU:C	2.39	0.46
7:L:193:ARG:CA	7:L:196:ARG:HG2	2.45	0.46
8:M:161:TRP:CZ2	8:M:182:LYS:HE3	2.51	0.46
9:V:215:ALA:O	9:V:219:GLU:N	2.46	0.46
9:V:215:ALA:O	9:V:219:GLU:HB2	2.15	0.46
9:V:338:LEU:O	9:V:404:LYS:NZ	2.40	0.46
10:W:105:VAL:HG13	10:W:106:GLN:N	2.30	0.46
10:W:139:GLU:O	10:W:142:ARG:HB3	2.15	0.46
10:W:183:VAL:CG1	10:W:222:LEU:HD13	2.38	0.46
10:W:187:LEU:HD11	10:W:226:TYR:HA	1.97	0.46
10:W:271:VAL:CG1	10:W:302:TYR:HD2	2.28	0.46
13:Z:5:ALA:O	13:Z:46:LYS:HD2	2.14	0.46
14:a:156:TYR:N	14:a:156:TYR:CD1	2.83	0.46
14:a:360:VAL:HG23	16:c:308:VAL:HG22	1.98	0.46
15:b:27:GLN:HA	15:b:30:GLN:HB3	1.96	0.46
17:d:126:LEU:O	17:d:127:ASN:HB2	2.15	0.46
17:d:141:LEU:CD1	17:d:182:LEU:HD11	2.44	0.46
18:f:267:ARG:CD	18:f:893:ILE:HD13	2.45	0.46
18:f:452:ASN:HB2	18:f:488:ALA:CB	2.45	0.46
19:g:83:ALA:N	19:g:149:HIS:HB3	2.30	0.46
19:g:140:LYS:HD2	19:g:140:LYS:N	2.29	0.46
19:g:166:ARG:HA	19:g:170:GLN:CG	2.45	0.46
22:A:263:MET:O	22:A:263:MET:HG2	2.15	0.46
22:A:286:ASP:N	25:F:337:ILE:HD11	2.29	0.46
23:B:167:THR:HG22	23:B:172:THR:OG1	2.14	0.46
25:F:436:GLN:OE1	25:F:437:TYR:N	2.48	0.46
27:U:137:MET:CE	27:U:137:MET:HA	2.45	0.46
27:U:481:LEU:HD11	27:U:493:VAL:HG21	1.97	0.46
1:C:114:VAL:HB	1:C:123:LEU:CD2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:165:ILE:HD11	1:C:292:ILE:HD11	1.97	0.46
1:C:173:GLU:HB2	22:A:34:LYS:HD3	1.98	0.46
1:C:369:TYR:HB2	1:C:382:ASP:OD1	2.15	0.46
2:D:94:GLU:HB2	2:D:102:ILE:HG21	1.97	0.46
2:D:313:ARG:O	2:D:314:ALA:HB3	2.16	0.46
3:G:38:THR:HG22	3:G:53:GLN:OE1	2.16	0.46
4:H:38:ILE:CD1	4:H:191:ALA:HA	2.46	0.46
5:I:98:LEU:HD12	5:I:98:LEU:C	2.39	0.46
5:I:190:LEU:HD12	5:I:236:LEU:CD2	2.35	0.46
9:V:284:GLU:OE1	9:V:284:GLU:HA	2.16	0.46
10:W:34:LEU:HA	10:W:37:GLU:OE1	2.15	0.46
10:W:132:THR:O	10:W:135:LYS:HB2	2.16	0.46
10:W:186:ILE:HG23	10:W:205:ILE:HG23	1.96	0.46
11:X:50:ILE:HD12	11:X:76:PHE:CZ	2.50	0.46
12:Y:24:PHE:CZ	12:Y:289:ALA:CB	2.98	0.46
12:Y:121:LEU:HD13	12:Y:144:LEU:HD22	1.97	0.46
14:a:39:LEU:O	14:a:43:ASP:N	2.36	0.46
14:a:123:LEU:HD21	14:a:161:LYS:CG	2.44	0.46
14:a:189:PRO:HD2	14:a:192:GLU:HB2	1.96	0.46
14:a:274:LEU:HD23	14:a:275:LEU:N	2.31	0.46
15:b:130:ARG:NE	15:b:131:LEU:HD22	2.19	0.46
16:c:82:VAL:HG11	16:c:113:HIS:HB2	1.98	0.46
16:c:125:VAL:HG21	20:u:289:HIS:HA	1.96	0.46
16:c:163:ILE:HG22	16:c:199:HIS:O	2.15	0.46
18:f:188:VAL:HG11	18:f:211:ILE:HD13	1.97	0.46
18:f:307:LEU:HB3	18:f:314:TYR:CD1	2.50	0.46
18:f:319:GLU:HA	18:f:322:SER:OG	2.15	0.46
18:f:433:LEU:N	19:g:172:GLU:HA	2.30	0.46
18:f:482:ILE:HD12	18:f:518:THR:N	2.30	0.46
18:f:543:MET:HE2	18:f:543:MET:CA	2.39	0.46
18:f:591:ALA:O	18:f:595:VAL:HG13	2.16	0.46
18:f:680:ARG:HH12	22:A:66:LYS:HA	1.80	0.46
18:f:852:VAL:HG23	18:f:859:PRO:CG	2.45	0.46
19:g:87:VAL:HA	19:g:153:ALA:H	1.81	0.46
22:A:55:LEU:HD23	23:B:72:LEU:HB3	1.97	0.46
25:F:120:LYS:C	25:F:137:ILE:HG23	2.40	0.46
25:F:198:LEU:O	25:F:202:ILE:N	2.45	0.46
26:K:42:THR:HG21	26:K:194:ALA:HB2	1.96	0.46
27:U:493:VAL:CG1	27:U:519:VAL:HG21	2.44	0.46
27:U:536:ALA:O	27:U:545:LEU:HD21	2.16	0.46
27:U:712:LEU:C	27:U:712:LEU:HD23	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:ARG:HH21	27:U:649:ARG:CZ	2.28	0.46
1:C:76:VAL:HG22	1:C:87:VAL:CG1	2.45	0.46
1:C:315:ILE:HG22	1:C:317:PHE:HE1	1.80	0.46
1:C:320:PRO:HD3	1:C:355:SER:O	2.15	0.46
3:G:212:PRO:HG3	3:G:236:ASP:CG	2.41	0.46
5:I:82:ASP:HB3	5:I:130:PHE:CD1	2.50	0.46
5:I:122:THR:O	6:J:125:ARG:NE	2.48	0.46
6:J:109:ARG:HG3	6:J:109:ARG:NH1	2.30	0.46
7:L:158:ALA:O	8:M:57:LEU:HD13	2.14	0.46
9:V:123:SER:HB2	9:V:125:ASN:ND2	2.30	0.46
9:V:188:SER:HA	9:V:191:LEU:HB3	1.98	0.46
10:W:179:LYS:HB3	10:W:213:PHE:CE2	2.51	0.46
10:W:274:VAL:HG22	10:W:287:VAL:HG22	1.98	0.46
10:W:425:LEU:HD12	13:Z:252:LYS:HG3	1.98	0.46
11:X:90:ARG:HA	11:X:93:LEU:HG	1.97	0.46
12:Y:57:LEU:HD23	12:Y:57:LEU:O	2.15	0.46
12:Y:134:LEU:HD12	12:Y:134:LEU:C	2.39	0.46
13:Z:195:VAL:HG23	14:a:367:VAL:CG1	2.45	0.46
14:a:109:GLU:HG3	14:a:151:VAL:HG11	1.98	0.46
14:a:221:VAL:CA	14:a:225:LEU:HD12	2.45	0.46
15:b:7:MET:HB2	15:b:97:LEU:CD1	2.45	0.46
18:f:275:MET:HE2	18:f:275:MET:CA	2.44	0.46
18:f:692:LEU:HD21	18:f:724:ASN:CG	2.41	0.46
19:g:125:ASN:O	19:g:161:SER:HB2	2.15	0.46
22:A:138:MET:O	22:A:140:VAL:HG13	2.16	0.46
24:E:130:VAL:HG13	24:E:186:ALA:HA	1.97	0.46
25:F:270:ASP:O	25:F:273:ALA:N	2.49	0.46
25:F:310:MET:CE	25:F:342:LEU:HG	2.46	0.46
27:U:169:GLU:O	27:U:170:SER:C	2.59	0.46
27:U:367:THR:HG21	27:U:773:PHE:CD2	2.51	0.46
27:U:588:MET:HE1	27:U:760:VAL:HG11	1.95	0.46
27:U:836:THR:CG2	27:U:837:ALA:N	2.78	0.46
1:C:63:LEU:HD11	2:D:78:GLU:HB3	1.97	0.46
2:D:102:ILE:O	2:D:102:ILE:CG2	2.63	0.46
2:D:161:ASP:OD1	2:D:161:ASP:C	2.58	0.46
2:D:186:THR:OG1	2:D:187:HIS:ND1	2.41	0.46
5:I:50:ARG:HH11	5:I:50:ARG:HB2	1.81	0.46
6:J:86:ARG:HG3	6:J:110:TYR:OH	2.16	0.46
7:L:222:THR:HG1	7:L:224:TYR:HE2	1.63	0.46
8:M:27:MET:HG2	8:M:153:PRO:CG	2.45	0.46
8:M:73:VAL:HG12	8:M:74:GLY:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M:195:LYS:HA	8:M:239:ALA:CB	2.46	0.46
9:V:195:ILE:HB	9:V:203:LEU:HD21	1.96	0.46
9:V:275:VAL:O	9:V:275:VAL:HG13	2.14	0.46
9:V:330:LYS:HG2	9:V:360:TYR:CE1	2.51	0.46
10:W:449:GLU:OE2	10:W:449:GLU:HA	2.15	0.46
13:Z:6:VAL:HG12	13:Z:43:TRP:HH2	1.81	0.46
13:Z:67:VAL:HG11	15:b:91:ARG:CB	2.46	0.46
14:a:57:ILE:O	14:a:61:GLU:HG2	2.16	0.46
14:a:112:ILE:CD1	14:a:138:VAL:HG11	2.44	0.46
14:a:172:TYR:O	14:a:176:ALA:N	2.38	0.46
18:f:89:MET:C	18:f:91:SER:N	2.74	0.46
18:f:110:TYR:HE2	18:f:123:ALA:HB2	1.80	0.46
18:f:253:LEU:HD23	18:f:253:LEU:C	2.41	0.46
18:f:272:LEU:HD23	18:f:272:LEU:O	2.16	0.46
18:f:433:LEU:HD12	18:f:433:LEU:C	2.41	0.46
18:f:460:ASP:OD1	18:f:460:ASP:O	2.34	0.46
18:f:701:ASN:ND2	18:f:876:HIS:CE1	2.83	0.46
18:f:830:LEU:HD21	18:f:880:ALA:HB1	1.97	0.46
18:f:886:GLU:HB3	18:f:887:PHE:CE1	2.50	0.46
19:g:160:GLN:HB3	19:g:164:ASP:HB3	1.96	0.46
22:A:212:VAL:HG22	22:A:318:LEU:CD2	2.39	0.46
22:A:256:MET:HE2	22:A:256:MET:HB2	1.83	0.46
23:B:139:VAL:HG21	23:B:159:VAL:CG1	2.43	0.46
23:B:224:LEU:N	23:B:224:LEU:HD12	2.30	0.46
27:U:25:HIS:HA	27:U:59:PHE:CE1	2.50	0.46
27:U:32:ASN:HA	27:U:70:HIS:NE2	2.31	0.46
27:U:253:TYR:HA	27:U:261:LEU:HD21	1.98	0.46
27:U:368:ALA:HB2	27:U:728:PHE:HD1	1.79	0.46
27:U:488:THR:CG2	27:U:490:ARG:H	2.19	0.46
27:U:772:TRP:CG	27:U:774:PRO:HD2	2.51	0.46
1:C:119:ASP:HB2	16:c:193:ILE:HD12	1.96	0.46
2:D:122:GLU:N	2:D:122:GLU:CD	2.74	0.46
2:D:329:ARG:HH11	2:D:329:ARG:CG	2.28	0.46
3:G:10:ASP:C	3:G:12:HIS:N	2.74	0.46
3:G:98:ALA:CB	3:G:109:ILE:HG21	2.45	0.46
3:G:128:ASN:O	3:G:130:GLU:N	2.46	0.46
4:H:97:TYR:CE2	4:H:105:ILE:HA	2.51	0.46
5:I:105:ILE:CD1	5:I:110:LEU:HB2	2.45	0.46
7:L:148:CYS:HB2	7:L:149:PRO:HD2	1.98	0.46
9:V:118:GLN:OE1	9:V:128:ARG:NH2	2.48	0.46
9:V:134:PHE:HD2	9:V:187:ILE:HG13	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:191:LEU:O	9:V:195:ILE:N	2.37	0.46
9:V:379:LEU:HD22	9:V:395:ILE:HG21	1.97	0.46
9:V:414:TYR:HA	12:Y:347:ILE:O	2.16	0.46
10:W:40:LEU:O	10:W:41:GLN:C	2.58	0.46
10:W:54:THR:CG2	10:W:63:THR:HG23	2.46	0.46
10:W:71:VAL:CG1	10:W:104:MET:HE3	2.46	0.46
11:X:153:LEU:CD1	11:X:169:VAL:HG21	2.36	0.46
11:X:160:MET:HG2	11:X:161:ASP:N	2.24	0.46
11:X:379:ASP:OD1	11:X:379:ASP:C	2.57	0.46
12:Y:121:LEU:HD21	12:Y:156:LEU:CD2	2.45	0.46
14:a:308:GLU:HB2	14:a:329:LYS:NZ	2.31	0.46
14:a:342:ASP:OD1	14:a:342:ASP:C	2.59	0.46
17:d:236:LEU:HD22	17:d:267:ILE:HD11	1.98	0.46
18:f:62:ARG:HH21	18:f:70:LEU:HD23	1.80	0.46
18:f:482:ILE:HG13	18:f:483:PHE:N	2.31	0.46
18:f:882:LEU:HD13	18:f:889:PRO:HD3	1.97	0.46
19:g:168:ASN:O	19:g:171:LEU:HB2	2.15	0.46
22:A:429:TYR:HH	26:K:33:LEU:HB3	1.77	0.46
23:B:99:VAL:O	23:B:103:ARG:HG3	2.16	0.46
23:B:256:ILE:HD11	23:B:305:ILE:HG23	1.97	0.46
24:E:100:LEU:HD12	24:E:100:LEU:O	2.16	0.46
24:E:146:ARG:O	24:E:150:GLU:HB3	2.16	0.46
25:F:180:ARG:C	25:F:182:THR:H	2.24	0.46
25:F:209:LYS:H	25:F:209:LYS:HG3	1.52	0.46
25:F:399:VAL:HB	25:F:424:ILE:HD13	1.98	0.46
26:K:157:ASP:HB2	26:K:158:PRO:CD	2.37	0.46
27:U:105:ILE:HG22	27:U:134:VAL:HG22	1.97	0.46
27:U:344:ARG:HE	27:U:927:PRO:CG	2.29	0.46
27:U:397:THR:O	27:U:398:ASN:HB2	2.15	0.46
27:U:796:LYS:CG	27:U:798:PRO:HD3	2.44	0.46
27:U:810:THR:HG23	27:U:872:GLU:CD	2.40	0.46
1:C:142:LYS:HD2	1:C:142:LYS:O	2.16	0.46
1:C:162:LYS:HD3	1:C:166:GLU:OE1	2.16	0.46
1:C:383:PHE:O	1:C:386:ALA:N	2.45	0.46
6:J:59:VAL:O	6:J:60:ARG:C	2.59	0.46
7:L:97:PHE:CD1	7:L:97:PHE:C	2.93	0.46
8:M:215:TRP:CE3	8:M:227:VAL:HG22	2.51	0.46
9:V:117:VAL:CG2	9:V:132:LEU:HD11	2.45	0.46
10:W:108:CYS:O	10:W:112:VAL:N	2.49	0.46
10:W:393:LEU:O	10:W:393:LEU:HD12	2.14	0.46
11:X:161:ASP:CG	11:X:162:ASP:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Y:122:THR:HG23	12:Y:123:ALA:N	2.30	0.46
12:Y:197:ALA:HB3	12:Y:226:VAL:HG11	1.97	0.46
13:Z:48:LEU:HD21	13:Z:92:VAL:CG2	2.46	0.46
13:Z:137:ALA:HB3	13:Z:158:VAL:HG13	1.98	0.46
14:a:100:THR:HA	14:a:103:LYS:CE	2.45	0.46
14:a:118:ILE:HG13	14:a:122:LYS:HB3	1.98	0.46
14:a:122:LYS:HE2	14:a:130:VAL:HG13	1.97	0.46
14:a:172:TYR:HE2	14:a:199:THR:O	1.98	0.46
15:b:150:THR:HG21	15:b:152:LYS:HD3	1.97	0.46
18:f:250:ARG:O	18:f:254:GLY:N	2.44	0.46
18:f:329:ASN:HA	18:f:332:ALA:HB3	1.97	0.46
18:f:453:SER:N	18:f:488:ALA:HA	2.31	0.46
19:g:131:ILE:CG1	19:g:151:VAL:CG1	2.92	0.46
22:A:79:ASP:O	22:A:82:ALA:N	2.48	0.46
25:F:294:LYS:HB3	25:F:295:ARG:CZ	2.46	0.46
27:U:2:ILE:O	27:U:3:THR:OG1	2.31	0.46
27:U:12:LEU:HD22	27:U:45:ILE:HD11	1.96	0.46
27:U:122:GLU:HG3	27:U:122:GLU:O	2.15	0.46
27:U:213:PHE:CA	27:U:216:VAL:HG12	2.43	0.46
27:U:258:GLN:OE1	27:U:488:THR:HA	2.16	0.46
1:C:33:LEU:HD12	9:V:201:ARG:CG	2.41	0.46
1:C:96:VAL:HG12	1:C:96:VAL:O	2.15	0.46
1:C:161:ILE:HD12	1:C:186:VAL:HG11	1.97	0.46
2:D:236:VAL:O	2:D:236:VAL:CG1	2.61	0.46
2:D:238:LYS:HZ3	24:E:207:TYR:HB2	1.81	0.46
2:D:382:SER:HA	2:D:402:ALA:HB2	1.97	0.46
2:D:392:TYR:CE2	10:W:200:ILE:HG21	2.51	0.46
3:G:199:ILE:HG21	3:G:242:LEU:HG	1.97	0.46
4:H:38:ILE:HD13	4:H:191:ALA:CA	2.46	0.46
5:I:82:ASP:HB3	5:I:130:PHE:HD1	1.80	0.46
5:I:174:MET:CE	5:I:195:LYS:HG3	2.45	0.46
6:J:36:ARG:HG3	6:J:36:ARG:NH1	2.29	0.46
6:J:71:MET:HE1	6:J:111:ILE:HD13	1.98	0.46
7:L:166:GLN:HB3	25:F:417:HIS:CD2	2.51	0.46
8:M:178:LYS:O	8:M:179:LEU:HD12	2.16	0.46
9:V:113:LEU:HD13	9:V:171:VAL:HA	1.97	0.46
9:V:114:TYR:O	9:V:118:GLN:N	2.34	0.46
9:V:150:ARG:HB3	9:V:154:ALA:C	2.41	0.46
11:X:97:LEU:HD12	11:X:136:LEU:HG	1.98	0.46
13:Z:44:GLN:OE1	13:Z:44:GLN:HA	2.16	0.46
13:Z:288:LYS:O	13:Z:288:LYS:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:7:PHE:HZ	14:a:59:LEU:HB3	1.81	0.46
14:a:61:GLU:O	14:a:64:ILE:HG22	2.15	0.46
14:a:131:THR:HG23	14:a:132:LYS:N	2.30	0.46
16:c:117:GLY:HA2	16:c:146:ASP:OD2	2.15	0.46
18:f:180:GLN:C	18:f:183:PRO:HD2	2.40	0.46
18:f:745:LEU:HD13	18:f:766:GLN:CA	2.45	0.46
22:A:187:LEU:HD21	22:A:229:VAL:CG2	2.41	0.46
22:A:433:ASN:CB	26:K:82:ILE:HD11	2.46	0.46
24:E:35:GLU:HA	24:E:38:LYS:HE2	1.97	0.46
25:F:85:THR:O	25:F:86:LEU:HG	2.16	0.46
25:F:231:THR:HG22	25:F:354:PHE:HD2	1.81	0.46
25:F:388:THR:HG22	25:F:424:ILE:HG13	1.98	0.46
27:U:167:ILE:HD12	27:U:176:MET:HG3	1.98	0.46
27:U:554:LEU:CD2	27:U:588:MET:HG3	2.42	0.46
1:C:336:MET:HE3	1:C:378:VAL:CG2	2.43	0.46
3:G:51:VAL:HG13	3:G:198:ALA:HB1	1.98	0.46
4:H:118:MET:CE	4:H:151:PRO:HA	2.44	0.46
4:H:188:ILE:O	4:H:192:ILE:HD12	2.16	0.46
7:L:26:MET:HA	7:L:26:MET:CE	2.41	0.46
8:M:209:PHE:CD1	8:M:210:GLU:N	2.84	0.46
9:V:105:SER:O	9:V:108:LEU:HD21	2.16	0.46
9:V:160:LEU:O	9:V:164:GLU:HG2	2.15	0.46
9:V:261:TYR:HB2	9:V:263:LEU:HD13	1.98	0.46
9:V:287:ARG:NH2	28:e:21:GLU:HG2	2.30	0.46
9:V:384:GLU:C	9:V:384:GLU:CD	2.84	0.46
10:W:326:MET:SD	10:W:330:LYS:HB2	2.55	0.46
11:X:268:GLN:CD	11:X:288:LYS:HZ1	2.24	0.46
12:Y:19:ILE:HD11	12:Y:44:ALA:CB	2.34	0.46
13:Z:74:TYR:HD1	13:Z:74:TYR:C	2.24	0.46
15:b:172:THR:HG23	15:b:172:THR:O	2.16	0.46
16:c:46:ARG:O	16:c:46:ARG:HD3	2.16	0.46
16:c:157:ILE:HG23	16:c:157:ILE:O	2.16	0.46
17:d:88:LEU:HD12	17:d:88:LEU:O	2.16	0.46
18:f:612:LEU:HD23	18:f:656:GLY:C	2.41	0.46
18:f:782:HIS:CE1	18:f:895:GLU:HB3	2.51	0.46
19:g:110:ARG:HE	19:g:110:ARG:HB2	1.64	0.46
22:A:177:VAL:HG11	22:A:184:ILE:HD11	1.96	0.46
23:B:287:ILE:HD12	23:B:290:ILE:HG23	1.98	0.46
24:E:279:THR:OG1	24:E:280:ASN:N	2.47	0.46
25:F:177:VAL:HG12	25:F:179:GLU:H	1.81	0.46
25:F:244:THR:HA	25:F:245:LYS:HZ3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:42:THR:N	26:K:45:GLY:O	2.45	0.46
27:U:346:ASN:OD1	27:U:347:ASN:N	2.49	0.46
27:U:497:LEU:HD11	27:U:515:ALA:HB1	1.98	0.46
28:e:24:ALA:O	28:e:25:GLU:C	2.59	0.46
1:C:113:ARG:NE	1:C:130:LYS:HB2	2.30	0.45
1:C:357:ALA:HB3	2:D:323:ARG:HD2	1.96	0.45
3:G:51:VAL:HG23	3:G:202:LEU:HD22	1.99	0.45
3:G:101:TRP:CD1	3:G:109:ILE:HA	2.51	0.45
3:G:143:ILE:HG12	3:G:220:VAL:CG2	2.42	0.45
4:H:71:HIS:CE1	4:H:104:PRO:CB	3.00	0.45
5:I:38:LEU:HD13	5:I:180:LYS:O	2.15	0.45
6:J:136:PHE:HZ	6:J:213:ARG:HH21	1.62	0.45
6:J:156:TRP:CD2	6:J:159:ASN:OD1	2.69	0.45
7:L:24:TYR:CZ	26:K:17:PRO:HB3	2.50	0.45
8:M:63:ASN:HA	8:M:85:ARG:HH21	1.81	0.45
8:M:184:MET:HB3	8:M:188:ASP:CG	2.41	0.45
9:V:292:THR:HG23	9:V:308:THR:HG21	1.97	0.45
9:V:463:MET:SD	9:V:464:ILE:O	2.75	0.45
10:W:55:ARG:HH12	10:W:93:ARG:HD3	1.81	0.45
10:W:361:HIS:HB2	10:W:364:ARG:HH22	1.82	0.45
11:X:54:GLY:O	11:X:58:ALA:N	2.32	0.45
12:Y:168:ILE:HG13	12:Y:172:GLY:HA3	1.98	0.45
14:a:365:MET:HA	14:a:368:GLU:HG2	1.98	0.45
15:b:147:GLU:H	15:b:147:GLU:CD	2.24	0.45
18:f:399:LEU:O	18:f:402:ASN:N	2.44	0.45
18:f:665:GLU:H	18:f:665:GLU:CD	2.25	0.45
18:f:830:LEU:HB3	18:f:872:VAL:CA	2.47	0.45
18:f:875:ALA:O	18:f:878:GLU:HG2	2.16	0.45
19:g:116:ILE:O	19:g:122:LEU:HD13	2.16	0.45
20:u:136:GLU:O	20:u:168:THR:HG22	2.16	0.45
22:A:124:ASP:O	22:A:148:GLN:HG2	2.16	0.45
22:A:165:GLN:HA	22:A:238:ILE:HA	1.98	0.45
22:A:214:LEU:HD23	22:A:343:PHE:CE1	2.51	0.45
22:A:423:PHE:O	22:A:424:SER:C	2.59	0.45
24:E:232:MET:SD	24:E:277:MET:SD	3.14	0.45
24:E:276:ILE:O	24:E:277:MET:C	2.58	0.45
25:F:168:TYR:HD2	25:F:274:LEU:HD13	1.81	0.45
26:K:33:LEU:HD12	26:K:33:LEU:N	2.31	0.45
27:U:140:ARG:HB3	27:U:140:ARG:CZ	2.46	0.45
27:U:324:LYS:NZ	27:U:333:MET:HE3	2.31	0.45
27:U:489:ALA:C	27:U:520:MET:HE1	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:524:LYS:HD2	27:U:556:MET:SD	2.56	0.45
1:C:158:ILE:HA	1:C:161:ILE:HG22	1.99	0.45
2:D:175:GLN:O	2:D:179:GLU:HB2	2.16	0.45
2:D:342:ARG:HB2	2:D:342:ARG:CZ	2.46	0.45
3:G:16:PHE:CE2	4:H:128:ARG:HD2	2.51	0.45
3:G:172:GLN:HA	3:G:175:SER:HG	1.81	0.45
5:I:45:LEU:CD2	5:I:75:SER:HB2	2.46	0.45
7:L:193:ARG:HA	7:L:196:ARG:CD	2.47	0.45
8:M:39:ILE:O	8:M:46:VAL:N	2.34	0.45
8:M:213:LEU:HD12	8:M:213:LEU:N	2.32	0.45
9:V:79:VAL:CG1	9:V:163:VAL:HG11	2.46	0.45
9:V:364:THR:HG21	28:e:43:TRP:HH2	1.81	0.45
10:W:193:CYS:HB2	10:W:202:THR:OG1	2.15	0.45
11:X:125:LEU:O	11:X:128:ALA:N	2.48	0.45
11:X:323:LEU:HD23	11:X:323:LEU:HA	1.76	0.45
11:X:339:ILE:HG23	11:X:387:ILE:HG13	1.98	0.45
11:X:406:ASN:HD21	16:c:253:LYS:HD3	1.80	0.45
13:Z:74:TYR:C	13:Z:74:TYR:CD1	2.95	0.45
13:Z:126:VAL:CG1	13:Z:127:LYS:N	2.79	0.45
13:Z:265:LEU:C	13:Z:265:LEU:HD23	2.41	0.45
14:a:89:ASP:C	14:a:89:ASP:OD1	2.58	0.45
14:a:148:VAL:HG11	14:a:151:VAL:CG1	2.46	0.45
15:b:113:VAL:CG2	15:b:140:ILE:HD12	2.46	0.45
17:d:225:TYR:HB3	17:d:256:TYR:OH	2.16	0.45
18:f:191:ILE:O	18:f:194:TYR:HB3	2.16	0.45
19:g:122:LEU:HB3	19:g:127:ILE:HG21	1.98	0.45
22:A:321:THR:HG23	22:A:321:THR:O	2.16	0.45
22:A:375:ARG:HD3	26:K:173:ALA:CB	2.28	0.45
23:B:93:GLU:O	23:B:97:SER:OG	2.27	0.45
24:E:149:ILE:CD1	24:E:276:ILE:CG1	2.94	0.45
24:E:334:LEU:CD1	24:E:368:MET:HG2	2.47	0.45
25:F:274:LEU:HD12	25:F:278:LYS:NZ	2.31	0.45
27:U:161:ASP:OD1	27:U:162:VAL:N	2.46	0.45
27:U:842:LYS:HG3	27:U:846:LYS:HE3	1.96	0.45
27:U:887:ALA:HB3	27:U:888:GLN:OE1	2.15	0.45
1:C:187:LEU:HD11	1:C:295:THR:CG2	2.47	0.45
1:C:238:ALA:O	1:C:289:ILE:HD12	2.16	0.45
1:C:266:ASP:OD2	2:D:283:ARG:HD2	2.15	0.45
1:C:308:PRO:HG2	23:B:394:ASP:OD1	2.15	0.45
2:D:97:ASP:OD1	2:D:100:THR:CG2	2.63	0.45
2:D:143:LEU:HD11	24:E:64:LEU:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:160:PRO:HB3	2:D:217:LYS:HG2	1.99	0.45
3:G:183:VAL:HG13	3:G:183:VAL:O	2.17	0.45
5:I:21:VAL:CG1	5:I:153:SER:HB2	2.46	0.45
5:I:42:GLY:HA2	5:I:145:PHE:CE2	2.51	0.45
5:I:69:ASN:HB3	5:I:72:MET:HB2	1.97	0.45
6:J:9:VAL:HG23	6:J:9:VAL:O	2.16	0.45
9:V:470:ARG:NH1	9:V:474:LEU:HD22	2.31	0.45
10:W:263:TRP:CZ3	10:W:267:LEU:HD12	2.40	0.45
11:X:407:MET:SD	13:Z:266:ILE:HD13	2.57	0.45
14:a:235:ASP:O	14:a:239:ALA:N	2.47	0.45
14:a:247:ARG:HD3	14:a:301:LYS:HZ3	1.80	0.45
15:b:151:GLU:CA	15:b:154:THR:HG22	2.46	0.45
16:c:196:LEU:C	16:c:198:ARG:H	2.23	0.45
18:f:307:LEU:HB3	18:f:314:TYR:CE1	2.51	0.45
18:f:473:ASN:O	18:f:509:LYS:NZ	2.45	0.45
18:f:567:LEU:O	18:f:790:GLN:NE2	2.50	0.45
18:f:701:ASN:ND2	18:f:876:HIS:HE1	2.14	0.45
18:f:888:LEU:HD11	18:f:903:ASN:OD1	2.15	0.45
19:g:131:ILE:HG21	19:g:147:VAL:HG13	1.97	0.45
19:g:141:THR:HG22	19:g:144:GLU:CD	2.40	0.45
22:A:190:VAL:CG2	22:A:339:ARG:HE	2.30	0.45
22:A:213:LEU:CD1	22:A:321:THR:HG22	2.46	0.45
22:A:214:LEU:HD23	22:A:343:PHE:CZ	2.51	0.45
25:F:375:VAL:HG21	25:F:420:TYR:HE2	1.81	0.45
27:U:199:ARG:HA	27:U:202:VAL:CG1	2.45	0.45
27:U:514:LEU:CD1	27:U:547:GLY:HA2	2.46	0.45
27:U:646:PRO:HG3	27:U:649:ARG:NH2	2.32	0.45
27:U:792:ASN:HA	27:U:914:LEU:H	1.81	0.45
1:C:37:ASP:OD1	1:C:37:ASP:C	2.59	0.45
3:G:180:GLU:OE1	4:H:55:ILE:HG22	2.17	0.45
3:G:215:ILE:HD11	3:G:217:VAL:HG23	1.97	0.45
4:H:34:PRO:HD2	4:H:49:GLU:CG	2.46	0.45
4:H:203:MET:HB3	4:H:230:LEU:HD22	1.98	0.45
5:I:33:THR:HA	5:I:164:ILE:O	2.16	0.45
5:I:65:ILE:HD13	5:I:75:SER:HB2	1.98	0.45
7:L:33:SER:O	7:L:62:LYS:NZ	2.41	0.45
8:M:97:ASN:O	8:M:101:ASN:ND2	2.50	0.45
8:M:232:ARG:O	8:M:236:GLU:HG3	2.17	0.45
9:V:358:MET:SD	9:V:358:MET:C	3.00	0.45
10:W:63:THR:HA	10:W:66:ILE:HB	1.98	0.45
10:W:267:LEU:HB3	10:W:299:ILE:CD1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:440:ASN:ND2	16:c:226:MET:HE3	2.30	0.45
10:W:453:HIS:CE1	13:Z:221:PRO:HG3	2.52	0.45
11:X:265:GLU:H	11:X:265:GLU:HG2	1.56	0.45
13:Z:16:LEU:HD13	16:c:216:MET:HG2	1.98	0.45
13:Z:110:GLU:OE1	13:Z:110:GLU:HA	2.16	0.45
16:c:25:VAL:O	16:c:25:VAL:HG12	2.16	0.45
17:d:89:GLN:HA	17:d:92:THR:OG1	2.17	0.45
17:d:164:PHE:O	17:d:168:MET:HB2	2.16	0.45
17:d:226:ILE:O	17:d:229:PRO:HD2	2.17	0.45
18:f:59:LEU:HD12	18:f:74:ALA:HA	1.99	0.45
18:f:326:LEU:HD21	18:f:420:TRP:CD2	2.51	0.45
18:f:456:ARG:HH21	18:f:492:SER:HA	1.78	0.45
18:f:700:SER:HB3	18:f:779:CYS:SG	2.57	0.45
20:u:182:PHE:HE2	20:u:248:VAL:HG22	1.80	0.45
22:A:173:THR:HG22	22:A:174:TYR:H	1.81	0.45
22:A:227:ARG:HA	23:B:319:PHE:CE1	2.51	0.45
24:E:112:PRO:CG	25:F:97:LEU:HD22	2.46	0.45
25:F:228:PRO:HG2	25:F:356:MET:HG3	1.97	0.45
25:F:292:GLY:HA3	25:F:338:LEU:CD2	2.46	0.45
25:F:371:ARG:HG2	25:F:371:ARG:HH11	1.81	0.45
27:U:9:ILE:HA	27:U:12:LEU:CD1	2.46	0.45
27:U:179:TYR:O	27:U:183:LEU:HD23	2.17	0.45
27:U:789:ILE:HD13	27:U:911:ILE:HG12	1.98	0.45
1:C:88:LYS:HE2	1:C:94:LYS:HZ2	1.75	0.45
1:C:371:LEU:HD23	1:C:371:LEU:C	2.41	0.45
3:G:164:LYS:N	4:H:56:LEU:O	2.48	0.45
5:I:107:CYS:O	5:I:110:LEU:HB3	2.16	0.45
5:I:136:TYR:CE1	5:I:150:SER:HB2	2.48	0.45
5:I:214:ALA:HA	5:I:226:ARG:O	2.16	0.45
7:L:133:LEU:HD13	7:L:146:GLN:HB2	1.98	0.45
7:L:156:CYS:HA	8:M:58:TYR:HA	1.99	0.45
9:V:176:MET:CE	9:V:216:ARG:HB3	2.46	0.45
9:V:190:ASP:CA	9:V:193:GLN:HB2	2.30	0.45
10:W:20:TYR:N	10:W:59:ASP:OD2	2.49	0.45
10:W:105:VAL:HG21	10:W:132:THR:CG2	2.46	0.45
10:W:235:GLN:HA	10:W:235:GLN:OE1	2.17	0.45
10:W:272:LEU:HD11	10:W:341:PHE:HE2	1.80	0.45
10:W:363:ILE:CD1	10:W:378:MET:CE	2.95	0.45
11:X:68:GLY:CA	11:X:71:LYS:HG2	2.46	0.45
11:X:138:PHE:HE2	11:X:175:LYS:HE2	1.82	0.45
11:X:167:VAL:HG13	11:X:210:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:400:ALA:HA	13:Z:262:LEU:HD22	1.98	0.45
12:Y:24:PHE:CD2	12:Y:286:TRP:HA	2.51	0.45
12:Y:88:LEU:O	12:Y:92:GLU:HG3	2.16	0.45
13:Z:38:VAL:HG13	13:Z:91:ILE:HG23	1.98	0.45
14:a:65:SER:HA	14:a:68:GLU:HB3	1.99	0.45
14:a:245:VAL:HG12	14:a:247:ARG:H	1.81	0.45
14:a:255:TRP:O	14:a:258:GLN:NE2	2.50	0.45
15:b:7:MET:HE2	15:b:7:MET:CA	2.46	0.45
15:b:91:ARG:HG2	15:b:127:LEU:CD2	2.46	0.45
15:b:130:ARG:HA	15:b:133:LYS:HE3	1.98	0.45
17:d:91:ALA:HA	17:d:119:LEU:CD2	2.46	0.45
17:d:197:LEU:HD12	17:d:256:TYR:CD1	2.50	0.45
17:d:319:ALA:HA	17:d:322:GLN:OE1	2.16	0.45
18:f:63:LEU:HB3	18:f:106:LEU:HD21	1.98	0.45
18:f:218:GLU:O	18:f:258:LYS:HD3	2.15	0.45
18:f:233:LEU:HD12	18:f:252:ALA:HB2	1.99	0.45
18:f:404:ASP:O	18:f:407:MET:N	2.49	0.45
22:A:23:ARG:HB3	22:A:23:ARG:CZ	2.45	0.45
22:A:54:GLN:OE1	22:A:54:GLN:C	2.59	0.45
22:A:417:ILE:HG22	22:A:418:LYS:N	2.32	0.45
23:B:266:LEU:HD23	23:B:266:LEU:O	2.16	0.45
24:E:235:ILE:O	24:E:235:ILE:CG2	2.65	0.45
25:F:250:LYS:HD2	25:F:250:LYS:O	2.17	0.45
25:F:254:PRO:HD3	25:F:287:GLU:O	2.16	0.45
25:F:312:GLU:HA	25:F:312:GLU:OE1	2.17	0.45
27:U:85:GLY:HA2	27:U:88:PHE:CD1	2.52	0.45
27:U:528:ALA:O	27:U:532:MET:HB2	2.17	0.45
1:C:155:ASP:O	1:C:159:LYS:HG3	2.17	0.45
2:D:111:TYR:CD2	2:D:137:ASN:ND2	2.85	0.45
3:G:18:PRO:HA	4:H:24:TYR:CD2	2.52	0.45
3:G:178:PHE:CE2	3:G:201:CYS:HA	2.52	0.45
4:H:4:ARG:H	4:H:4:ARG:HG2	1.48	0.45
5:I:105:ILE:HD13	5:I:110:LEU:HD13	1.97	0.45
7:L:22:ILE:HD11	7:L:120:THR:OG1	2.16	0.45
7:L:166:GLN:OE1	7:L:166:GLN:HA	2.17	0.45
9:V:108:LEU:HD11	9:V:177:ASN:ND2	2.24	0.45
9:V:169:LEU:HB2	9:V:210:CYS:SG	2.56	0.45
9:V:365:GLN:HE21	28:e:46:ASP:HB3	1.81	0.45
11:X:374:PHE:CE2	11:X:387:ILE:HD12	2.51	0.45
12:Y:83:ARG:HG3	12:Y:87:GLU:OE1	2.16	0.45
14:a:61:GLU:HA	14:a:64:ILE:CG2	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:99:LYS:O	14:a:102:GLU:HG2	2.15	0.45
14:a:114:CYS:O	14:a:118:ILE:HG22	2.17	0.45
15:b:37:CYS:SG	15:b:38:HIS:ND1	2.84	0.45
15:b:71:ILE:H	15:b:71:ILE:CD1	2.30	0.45
15:b:80:PRO:HD2	15:b:81:LYS:HE2	1.98	0.45
17:d:141:LEU:HB3	17:d:182:LEU:HD13	1.98	0.45
18:f:237:VAL:HG12	18:f:248:LEU:HB2	1.98	0.45
18:f:343:LYS:O	18:f:382:ASN:ND2	2.26	0.45
18:f:562:LEU:CD1	18:f:580:LEU:HD21	2.46	0.45
18:f:674:THR:O	18:f:678:LEU:HD13	2.16	0.45
18:f:891:THR:HG23	18:f:892:PRO:HD2	1.99	0.45
19:g:90:PRO:HB2	19:g:157:GLU:HB2	1.98	0.45
19:g:103:THR:CG2	19:g:115:LYS:HD2	2.46	0.45
22:A:34:LYS:HE2	22:A:34:LYS:HB2	1.49	0.45
22:A:395:PHE:CD2	22:A:411:GLU:HB3	2.51	0.45
24:E:235:ILE:HD13	24:E:277:MET:HE3	1.97	0.45
25:F:203:VAL:HG22	25:F:244:THR:HB	1.98	0.45
25:F:352:ILE:HD12	25:F:352:ILE:HA	1.83	0.45
27:U:46:GLU:HG3	27:U:80:TYR:CE2	2.51	0.45
27:U:233:LEU:HD23	27:U:233:LEU:HA	1.77	0.45
27:U:250:PHE:HD2	27:U:911:ILE:HB	1.81	0.45
27:U:375:PHE:O	27:U:739:ALA:HA	2.17	0.45
27:U:458:ILE:HG13	27:U:485:ALA:HB2	1.99	0.45
27:U:661:ALA:HB2	27:U:748:LEU:HD12	1.98	0.45
27:U:889:LEU:HD12	27:U:908:ILE:HA	1.99	0.45
1:C:273:MET:CE	1:C:274:LEU:HD23	2.47	0.45
2:D:106:THR:HG21	24:E:78:ARG:H	1.82	0.45
2:D:119:ILE:HD11	2:D:140:VAL:C	2.41	0.45
2:D:162:VAL:O	2:D:162:VAL:HG12	2.17	0.45
5:I:135:LEU:HD21	5:I:162:THR:CG2	2.44	0.45
6:J:71:MET:HG2	6:J:84:ILE:HD11	1.99	0.45
7:L:40:SER:HG	7:L:187:LEU:HD22	1.82	0.45
7:L:49:LEU:HD12	7:L:209:ASN:O	2.17	0.45
7:L:168:ALA:HB2	7:L:198:THR:HG22	1.97	0.45
9:V:101:LEU:O	9:V:105:SER:HB3	2.16	0.45
9:V:101:LEU:HD21	9:V:169:LEU:HD23	1.98	0.45
9:V:147:PHE:O	9:V:149:PRO:HD3	2.17	0.45
9:V:208:ALA:HA	9:V:211:TYR:CD2	2.52	0.45
9:V:256:ARG:NH2	28:e:21:GLU:O	2.50	0.45
9:V:264:TYR:CD1	9:V:295:ILE:HD13	2.51	0.45
10:W:203:GLN:HG2	10:W:233:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Y:81:LEU:HG	12:Y:110:TYR:HE2	1.82	0.45
12:Y:148:GLY:C	12:Y:157:ILE:HD11	2.41	0.45
12:Y:193:ASP:C	12:Y:193:ASP:OD1	2.59	0.45
12:Y:272:PHE:HB3	28:e:56:LEU:HD11	1.97	0.45
15:b:25:ARG:NH2	15:b:144:GLY:HA3	2.32	0.45
16:c:49:VAL:O	16:c:116:PRO:HG3	2.17	0.45
17:d:127:ASN:HD22	17:d:136:LEU:HD21	1.80	0.45
17:d:152:ALA:HB3	17:d:191:LEU:HD22	1.99	0.45
17:d:199:LEU:HD11	17:d:211:GLU:HG2	1.99	0.45
18:f:210:GLU:O	18:f:212:GLU:OE2	2.35	0.45
18:f:264:GLU:OE2	18:f:892:PRO:HG3	2.16	0.45
19:g:79:THR:O	19:g:82:ILE:HG13	2.16	0.45
19:g:100:LEU:H	19:g:100:LEU:CD2	2.26	0.45
19:g:126:TYR:HA	19:g:161:SER:HA	1.97	0.45
19:g:159:LYS:HB2	19:g:168:ASN:HD21	1.81	0.45
22:A:227:ARG:HA	23:B:319:PHE:HE1	1.81	0.45
22:A:307:ASP:HB3	22:A:336:ARG:HG3	1.98	0.45
22:A:423:PHE:HB3	22:A:428:ARG:HH12	1.81	0.45
23:B:64:LYS:O	23:B:68:ILE:HG13	2.16	0.45
24:E:151:LEU:N	24:E:152:PRO:HD2	2.32	0.45
25:F:134:LEU:HD12	25:F:160:ILE:CD1	2.47	0.45
25:F:177:VAL:HG12	25:F:179:GLU:HG3	1.96	0.45
25:F:393:GLY:O	25:F:396:CYS:HB2	2.16	0.45
26:K:20:ARG:HH21	26:K:25:GLU:CD	2.25	0.45
27:U:236:LEU:HG	27:U:241:ASN:HB3	1.99	0.45
27:U:832:VAL:O	27:U:834:SER:N	2.50	0.45
1:C:49:ARG:CZ	27:U:639:LEU:HG	2.47	0.45
1:C:80:MET:HE3	1:C:80:MET:HB2	1.67	0.45
1:C:157:GLN:O	1:C:161:ILE:HG22	2.16	0.45
2:D:406:VAL:HG12	2:D:406:VAL:O	2.17	0.45
4:H:74:LEU:HD13	4:H:134:LEU:HD22	1.99	0.45
5:I:90:LEU:HA	5:I:90:LEU:HD23	1.79	0.45
5:I:122:THR:O	6:J:125:ARG:NH2	2.50	0.45
5:I:158:GLY:H	6:J:58:THR:HG21	1.82	0.45
6:J:32:ALA:HB3	6:J:161:ILE:HG13	1.99	0.45
6:J:150:SER:O	26:K:83:LYS:HD2	2.16	0.45
8:M:220:THR:HG22	8:M:220:THR:O	2.15	0.45
8:M:243:LEU:HD12	8:M:244:LYS:HG2	1.98	0.45
9:V:76:LYS:HE2	9:V:147:PHE:CZ	2.52	0.45
9:V:212:TYR:CD1	9:V:253:LEU:HD11	2.36	0.45
9:V:227:VAL:O	9:V:231:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:243:ASP:OD1	9:V:244:ALA:N	2.49	0.45
9:V:281:ASN:OD1	9:V:283:ASN:HB2	2.17	0.45
9:V:309:MET:SD	9:V:331:LEU:HB3	2.57	0.45
9:V:421:ASP:OD2	12:Y:349:LYS:HE3	2.16	0.45
9:V:462:GLU:HG2	9:V:462:GLU:O	2.17	0.45
10:W:82:LEU:C	10:W:86:ASN:HD22	2.18	0.45
10:W:206:SER:HA	10:W:209:ILE:CG2	2.47	0.45
10:W:280:ASP:O	10:W:284:SER:HB3	2.17	0.45
11:X:80:ILE:CD1	11:X:85:ALA:HB2	2.47	0.45
12:Y:95:LEU:HD12	12:Y:99:GLU:CG	2.46	0.45
13:Z:20:VAL:HG22	13:Z:126:VAL:HG22	1.98	0.45
14:a:109:GLU:CD	14:a:112:ILE:HG22	2.41	0.45
15:b:138:VAL:O	15:b:160:LEU:HD11	2.16	0.45
15:b:142:ASN:O	15:b:142:ASN:OD1	2.35	0.45
17:d:95:TYR:CE1	17:d:99:LYS:HD2	2.52	0.45
17:d:214:ARG:HA	17:d:214:ARG:HD2	1.81	0.45
17:d:282:ILE:HG23	17:d:287:ALA:HB2	1.99	0.45
18:f:237:VAL:HG11	18:f:249:LEU:HD23	1.99	0.45
18:f:323:ASN:OD1	18:f:455:VAL:HG12	2.17	0.45
18:f:478:ARG:HD2	18:f:514:VAL:CG1	2.46	0.45
18:f:608:LYS:HD3	18:f:608:LYS:HA	1.63	0.45
19:g:83:ALA:H	19:g:149:HIS:HB3	1.82	0.45
22:A:93:LEU:HD12	23:B:132:TYR:HD2	1.81	0.45
22:A:287:ASP:O	22:A:287:ASP:OD1	2.34	0.45
23:B:417:GLU:OE1	23:B:417:GLU:N	2.50	0.45
24:E:149:ILE:HD11	24:E:276:ILE:CG1	2.45	0.45
25:F:129:ARG:HB2	25:F:129:ARG:CZ	2.45	0.45
26:K:41:GLN:NE2	26:K:151:PRO:O	2.49	0.45
27:U:191:LYS:HA	27:U:194:ARG:HB3	1.99	0.45
27:U:351:MET:HE1	27:U:354:LYS:CE	2.47	0.45
1:C:246:ILE:N	1:C:246:ILE:HD12	2.32	0.45
2:D:219:VAL:O	2:D:223:THR:HG22	2.17	0.45
2:D:384:MET:HE1	24:E:159:PHE:CE1	2.34	0.45
4:H:74:LEU:HA	4:H:135:LEU:O	2.16	0.45
5:I:14:PRO:O	6:J:24:GLU:HG3	2.16	0.45
5:I:238:LYS:HA	5:I:241:GLU:HB2	1.99	0.45
7:L:81:ALA:CB	7:L:130:VAL:HG21	2.46	0.45
8:M:210:GLU:HG2	8:M:211:LEU:N	2.32	0.45
9:V:218:TYR:CD2	9:V:227:VAL:HG13	2.52	0.45
9:V:273:LYS:HE3	9:V:273:LYS:CA	2.47	0.45
10:W:425:LEU:HD23	13:Z:245:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Y:26:LEU:HG	12:Y:37:VAL:HG12	1.98	0.45
13:Z:40:LEU:HB3	13:Z:89:GLU:HB3	1.99	0.45
15:b:118:GLU:CD	15:b:118:GLU:H	2.25	0.45
16:c:144:VAL:HG12	16:c:145:VAL:N	2.30	0.45
16:c:189:ILE:C	16:c:191:ALA:H	2.24	0.45
17:d:163:SER:O	17:d:166:ARG:HG2	2.17	0.45
19:g:141:THR:O	19:g:145:GLN:HG2	2.17	0.45
22:A:123:VAL:HB	22:A:147:TYR:O	2.17	0.45
27:U:145:HIS:O	27:U:146:LYS:C	2.59	0.45
27:U:402:PHE:CE1	27:U:441:GLY:HA2	2.51	0.45
27:U:878:LEU:HB2	27:U:882:ALA:HB2	1.99	0.45
1:C:72:TYR:CE1	2:D:111:TYR:HE1	2.35	0.45
1:C:164:VAL:HG21	1:C:313:ARG:HG3	1.99	0.45
1:C:217:SER:O	2:D:248:ARG:NH2	2.50	0.45
1:C:237:MET:HE2	1:C:237:MET:HB3	1.79	0.45
2:D:45:LYS:HB3	27:U:187:LEU:CD1	2.42	0.45
3:G:143:ILE:HG13	3:G:221:THR:C	2.42	0.45
4:H:36:VAL:CG2	4:H:47:ALA:HB3	2.46	0.45
7:L:24:TYR:O	7:L:27:GLU:HB2	2.17	0.45
8:M:224:HIS:O	8:M:224:HIS:CG	2.69	0.45
9:V:117:VAL:HG21	9:V:132:LEU:CD1	2.47	0.45
9:V:279:GLN:O	9:V:279:GLN:HG2	2.17	0.45
9:V:324:PHE:CD2	28:e:19:PHE:CE2	3.04	0.45
11:X:46:LYS:HG2	11:X:76:PHE:HE1	1.81	0.45
11:X:74:ARG:HD3	11:X:116:TRP:CD1	2.52	0.45
11:X:374:PHE:HE2	11:X:387:ILE:CD1	2.30	0.45
12:Y:257:ARG:HG2	12:Y:257:ARG:NH1	2.32	0.45
13:Z:44:GLN:HB2	13:Z:47:VAL:O	2.17	0.45
13:Z:225:GLN:O	13:Z:226:ILE:HB	2.16	0.45
14:a:111:VAL:HG22	14:a:115:LYS:HG2	1.99	0.45
14:a:111:VAL:C	14:a:115:LYS:HG3	2.41	0.45
14:a:158:LEU:HA	14:a:161:LYS:HB2	1.98	0.45
17:d:129:LEU:HD12	27:U:26:LYS:CG	2.47	0.45
19:g:89:LEU:CD2	19:g:155:VAL:HG11	2.47	0.45
22:A:217:PRO:HG2	22:A:345:LEU:CD2	2.47	0.45
23:B:256:ILE:HD12	23:B:305:ILE:HG23	1.99	0.45
23:B:428:TYR:O	23:B:429:LYS:HB3	2.16	0.45
25:F:177:VAL:HG13	25:F:179:GLU:HG3	1.99	0.45
25:F:191:LEU:HD22	25:F:194:GLN:CG	2.46	0.45
25:F:252:ALA:HA	25:F:286:ASP:N	2.31	0.45
25:F:304:ARG:O	25:F:308:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:67:ILE:HD13	26:K:67:ILE:HA	1.79	0.45
27:U:122:GLU:O	27:U:124:LYS:NZ	2.34	0.45
27:U:498:LYS:NZ	27:U:531:ASP:HB3	2.32	0.45
27:U:633:CYS:N	27:U:634:PRO:HD2	2.31	0.45
2:D:144:PRO:HG2	24:E:64:LEU:HD22	1.99	0.44
4:H:65:VAL:CG1	4:H:218:PHE:HZ	2.26	0.44
6:J:28:LYS:HE3	23:B:439:TYR:CD1	2.53	0.44
6:J:43:LEU:HD13	6:J:134:VAL:HG11	1.98	0.44
6:J:45:VAL:HG21	6:J:61:LYS:HD3	1.95	0.44
7:L:35:THR:O	7:L:160:SER:HA	2.16	0.44
8:M:47:PHE:CE2	8:M:138:GLY:HA3	2.52	0.44
9:V:64:GLN:CG	9:V:109:ASN:HD21	2.20	0.44
9:V:64:GLN:HA	9:V:67:LEU:HB2	1.99	0.44
9:V:172:VAL:O	9:V:175:MET:HB2	2.17	0.44
9:V:371:ASN:ND2	9:V:374:LYS:HG3	2.32	0.44
9:V:451:ILE:HG22	17:d:279:TYR:HD1	1.82	0.44
10:W:172:GLU:HG2	10:W:208:LYS:HD2	1.99	0.44
10:W:235:GLN:HA	10:W:243:ILE:CD1	2.41	0.44
10:W:409:LEU:HB3	11:X:344:ARG:HH12	1.81	0.44
11:X:151:SER:O	11:X:155:ARG:HG3	2.17	0.44
11:X:224:ASP:CG	11:X:227:THR:HB	2.42	0.44
12:Y:95:LEU:HG	12:Y:99:GLU:HG3	2.00	0.44
12:Y:350:VAL:HG12	12:Y:351:ASN:ND2	2.32	0.44
13:Z:16:LEU:HD23	13:Z:162:ILE:HD12	1.98	0.44
13:Z:142:GLU:CD	13:Z:153:LYS:HD2	2.41	0.44
13:Z:170:VAL:HG21	16:c:150:SER:O	2.17	0.44
14:a:33:LEU:HD13	14:a:36:GLN:OE1	2.16	0.44
14:a:160:SER:O	14:a:163:TYR:CD2	2.70	0.44
15:b:141:ILE:HG13	15:b:143:PHE:CE1	2.53	0.44
16:c:191:ALA:C	16:c:193:ILE:N	2.74	0.44
16:c:195:GLY:HA3	16:c:199:HIS:CD2	2.52	0.44
17:d:160:ASP:HB3	17:d:163:SER:OG	2.17	0.44
18:f:613:LEU:HD13	23:B:74:MET:HE3	1.99	0.44
18:f:680:ARG:HH11	22:A:66:LYS:HG3	1.76	0.44
18:f:716:ASP:OD1	18:f:717:ALA:N	2.49	0.44
18:f:761:MET:HA	18:f:764:LEU:HB3	1.98	0.44
22:A:332:MET:C	22:A:340:LYS:HZ3	2.24	0.44
22:A:363:SER:O	22:A:363:SER:OG	2.34	0.44
23:B:220:LYS:HG3	23:B:326:LYS:HD3	1.99	0.44
24:E:303:LEU:O	24:E:304:PRO:C	2.60	0.44
25:F:341:ALA:HA	25:F:344:ARG:NH1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:358:ASN:C	25:F:358:ASN:OD1	2.60	0.44
27:U:24:LEU:HD11	27:U:48:LEU:HD23	1.98	0.44
27:U:136:LYS:HD2	27:U:140:ARG:HG3	1.97	0.44
27:U:831:ALA:O	27:U:836:THR:HB	2.17	0.44
27:U:902:PRO:HB3	27:U:912:ILE:HD13	1.98	0.44
1:C:23:TYR:CD1	27:U:105:ILE:HD11	2.51	0.44
1:C:25:LEU:O	1:C:25:LEU:HD23	2.16	0.44
1:C:91:PRO:HG2	1:C:92:GLU:CD	2.42	0.44
1:C:121:TYR:HB2	23:B:106:PRO:HD3	2.00	0.44
2:D:45:LYS:CG	27:U:187:LEU:HB3	2.42	0.44
2:D:164:TYR:O	2:D:167:ILE:HG12	2.16	0.44
3:G:40:VAL:O	3:G:50:ILE:HA	2.17	0.44
3:G:131:MET:HE2	3:G:131:MET:HB3	1.91	0.44
3:G:189:TRP:CZ3	3:G:197:THR:HG21	2.52	0.44
3:G:199:ILE:CG2	3:G:242:LEU:HG	2.47	0.44
4:H:95:GLN:HA	4:H:95:GLN:OE1	2.18	0.44
7:L:84:LEU:HD23	7:L:84:LEU:HA	1.86	0.44
7:L:154:PHE:HB3	8:M:58:TYR:HD2	1.80	0.44
7:L:160:SER:HB2	7:L:168:ALA:HB3	1.99	0.44
7:L:204:ASP:HA	7:L:239:ARG:HH21	1.81	0.44
9:V:493:ALA:C	9:V:495:ARG:N	2.67	0.44
10:W:230:MET:HE3	10:W:233:LEU:HB3	1.99	0.44
11:X:299:LEU:HD11	11:X:334:ASN:ND2	2.30	0.44
12:Y:39:ASP:O	12:Y:43:ALA:N	2.38	0.44
13:Z:29:VAL:HG23	13:Z:30:GLY:N	2.32	0.44
14:a:257:GLN:HG3	14:a:257:GLN:O	2.17	0.44
18:f:62:ARG:HH12	18:f:74:ALA:CB	2.27	0.44
18:f:234:THR:C	18:f:237:VAL:HG22	2.43	0.44
18:f:240:VAL:HG11	18:f:248:LEU:CD1	2.48	0.44
18:f:460:ASP:N	18:f:461:PRO:HD3	2.33	0.44
18:f:500:LEU:HD23	18:f:500:LEU:C	2.42	0.44
19:g:85:ILE:HD12	19:g:131:ILE:HD11	1.99	0.44
24:E:36:LEU:HA	24:E:39:GLN:NE2	2.32	0.44
24:E:121:ASN:HB2	24:E:221:TYR:CZ	2.52	0.44
24:E:157:GLU:O	24:E:161:ARG:N	2.48	0.44
24:E:253:ILE:HA	24:E:256:THR:CG2	2.48	0.44
25:F:384:LEU:HD23	25:F:384:LEU:HA	1.74	0.44
26:K:88:LEU:HA	26:K:88:LEU:HD23	1.73	0.44
26:K:107:MET:HG2	26:K:111:SER:CB	2.47	0.44
26:K:205:VAL:O	26:K:205:VAL:CG2	2.65	0.44
27:U:806:CYS:HB2	27:U:872:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:880:ASN:N	27:U:881:PRO:CD	2.80	0.44
27:U:894:MET:CG	27:U:895:PRO:HD2	2.47	0.44
27:U:901:GLN:O	27:U:915:LYS:HB3	2.17	0.44
1:C:97:VAL:HG23	1:C:98:ASP:O	2.18	0.44
1:C:161:ILE:HD13	1:C:188:LEU:HD21	1.98	0.44
1:C:212:ILE:HG21	1:C:237:MET:HE1	2.00	0.44
2:D:203:LEU:HA	2:D:309:MET:O	2.17	0.44
4:H:36:VAL:HG11	4:H:194:THR:CG2	2.42	0.44
5:I:6:ASP:OD1	5:I:6:ASP:O	2.35	0.44
5:I:133:SER:HB2	5:I:150:SER:O	2.16	0.44
6:J:51:ALA:H	6:J:54:GLN:HE21	1.64	0.44
8:M:81:LEU:O	8:M:84:ALA:N	2.50	0.44
8:M:220:THR:HG21	8:M:223:ARG:C	2.42	0.44
9:V:185:GLN:OE1	9:V:221:LEU:HD11	2.16	0.44
9:V:391:THR:O	9:V:391:THR:HG22	2.18	0.44
13:Z:187:LEU:O	13:Z:191:ILE:HG12	2.17	0.44
15:b:29:GLN:HG2	15:b:30:GLN:N	2.32	0.44
15:b:154:THR:HA	15:b:170:LEU:HD23	2.00	0.44
16:c:173:GLU:O	16:c:175:ARG:N	2.47	0.44
16:c:249:LEU:HD11	16:c:253:LYS:HE3	1.99	0.44
18:f:107:LYS:HA	18:f:107:LYS:CE	2.44	0.44
18:f:267:ARG:HH11	18:f:783:SER:CB	2.29	0.44
18:f:496:ASP:O	18:f:499:THR:OG1	2.21	0.44
18:f:563:GLY:HA3	18:f:598:CYS:HB2	2.00	0.44
18:f:803:PHE:HD1	18:f:806:VAL:HG12	1.83	0.44
19:g:111:GLU:O	19:g:114:SER:HB2	2.17	0.44
19:g:125:ASN:C	19:g:161:SER:CB	2.90	0.44
23:B:203:LEU:HB3	23:B:211:TYR:OH	2.17	0.44
23:B:205:LEU:CD2	23:B:279:PRO:HB3	2.47	0.44
23:B:384:ILE:HG13	23:B:384:ILE:H	1.61	0.44
24:E:351:GLY:O	24:E:355:ILE:N	2.47	0.44
25:F:76:ASN:HD21	25:F:80:ILE:HD11	1.83	0.44
27:U:137:MET:O	27:U:140:ARG:N	2.51	0.44
27:U:458:ILE:CD1	27:U:485:ALA:HB2	2.47	0.44
27:U:559:ARG:O	27:U:560:MET:HB3	2.17	0.44
27:U:838:LYS:O	27:U:838:LYS:HD3	2.17	0.44
1:C:338:LEU:HA	1:C:338:LEU:HD23	1.72	0.44
1:C:368:MET:SD	2:D:191:TYR:HE1	2.41	0.44
3:G:165:ALA:HB1	3:G:179:LEU:CD1	2.37	0.44
5:I:65:ILE:HD11	5:I:75:SER:HB2	2.00	0.44
7:L:195:LEU:HD23	7:L:195:LEU:HA	1.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M:164:ALA:HB3	8:M:172:ALA:HB3	1.99	0.44
9:V:162:GLU:OE1	9:V:203:LEU:N	2.50	0.44
9:V:247:GLN:NE2	9:V:277:PRO:HD3	2.32	0.44
9:V:447:ILE:HG22	9:V:449:ALA:N	2.32	0.44
10:W:52:LYS:HG3	10:W:55:ARG:NH2	2.31	0.44
10:W:276:LEU:HD11	10:W:341:PHE:CE1	2.53	0.44
10:W:406:VAL:HG23	11:X:342:PHE:HA	1.98	0.44
11:X:331:LEU:HD21	11:X:364:LYS:HG2	1.95	0.44
11:X:368:MET:HG2	11:X:373:LYS:CB	2.46	0.44
12:Y:294:TYR:O	12:Y:298:GLU:HG2	2.17	0.44
12:Y:308:LEU:HD23	12:Y:314:LEU:HD21	2.00	0.44
14:a:197:ALA:HB3	14:a:226:ARG:CD	2.48	0.44
14:a:208:GLU:OE1	14:a:208:GLU:O	2.36	0.44
17:d:163:SER:HA	17:d:166:ARG:CD	2.46	0.44
17:d:197:LEU:HD23	17:d:197:LEU:C	2.42	0.44
18:f:298:LEU:HD11	18:f:305:LEU:CD2	2.47	0.44
18:f:450:ILE:CG1	18:f:822:VAL:HG11	2.48	0.44
19:g:131:ILE:CD1	19:g:153:ALA:HB2	2.37	0.44
22:A:304:ASN:OD1	22:A:304:ASN:C	2.59	0.44
22:A:372:LEU:HD13	22:A:376:LEU:HD11	1.99	0.44
23:B:287:ILE:HG21	23:B:329:MET:HE3	1.99	0.44
24:E:132:TYR:OH	24:E:187:VAL:HA	2.17	0.44
26:K:186:HIS:NE2	26:K:189:MET:SD	2.91	0.44
27:U:96:TYR:HA	27:U:99:THR:CG2	2.48	0.44
27:U:672:LEU:HD11	27:U:690:ALA:HB3	2.00	0.44
1:C:21:ARG:CA	1:C:24:TYR:CD2	2.98	0.44
1:C:75:GLU:HA	1:C:112:CYS:O	2.17	0.44
2:D:229:ARG:HG2	2:D:229:ARG:HH11	1.82	0.44
4:H:180:GLU:OE2	4:H:181:ASP:HB2	2.18	0.44
6:J:43:LEU:O	6:J:43:LEU:HG	2.17	0.44
7:L:81:ALA:CA	7:L:130:VAL:HG21	2.45	0.44
9:V:248:ALA:CA	9:V:276:PHE:HE1	2.29	0.44
9:V:285:TRP:HZ3	9:V:289:LEU:HD21	1.83	0.44
9:V:375:PHE:CE1	9:V:379:LEU:HD21	2.52	0.44
9:V:375:PHE:CD1	9:V:379:LEU:HD11	2.53	0.44
10:W:67:LEU:HD23	10:W:67:LEU:HA	1.78	0.44
10:W:87:ILE:HG23	10:W:104:MET:HE2	2.00	0.44
10:W:140:ILE:HD12	10:W:140:ILE:N	2.30	0.44
10:W:167:GLN:HA	10:W:189:GLN:NE2	2.32	0.44
10:W:210:ASN:OD1	10:W:210:ASN:C	2.60	0.44
10:W:310:THR:O	10:W:310:THR:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:315:MET:O	10:W:315:MET:CG	2.66	0.44
10:W:367:ALA:HA	10:W:415:PHE:CD2	2.52	0.44
11:X:211:ASP:OD2	11:X:234:GLU:HG3	2.18	0.44
11:X:289:CYS:SG	11:X:305:ALA:HB1	2.57	0.44
13:Z:57:PRO:CD	13:Z:74:TYR:CD2	3.01	0.44
13:Z:62:ASP:OD2	13:Z:63:LYS:HD3	2.17	0.44
14:a:16:PRO:HD2	14:a:47:ASP:OD2	2.17	0.44
14:a:51:ALA:O	14:a:54:ASP:N	2.45	0.44
14:a:80:ILE:HA	14:a:83:VAL:CB	2.30	0.44
14:a:216:LEU:HD11	14:a:234:ILE:HD12	1.99	0.44
15:b:11:ASP:OD1	15:b:13:SER:N	2.34	0.44
15:b:33:VAL:CA	15:b:36:VAL:HG22	2.41	0.44
15:b:121:GLU:HA	15:b:124:LEU:HD23	1.97	0.44
16:c:52:GLU:HG2	16:c:116:PRO:HD2	1.98	0.44
18:f:95:PRO:O	18:f:99:LEU:HB2	2.18	0.44
18:f:177:GLU:OE2	18:f:180:GLN:NE2	2.50	0.44
18:f:398:TRP:CD1	18:f:401:LYS:HZ1	2.35	0.44
22:A:125:LEU:N	22:A:125:LEU:HD23	2.32	0.44
22:A:233:THR:O	22:A:234:ASP:HB2	2.18	0.44
22:A:414:ASN:O	22:A:419:SER:HB2	2.17	0.44
23:B:303:ARG:HG2	23:B:307:ARG:HH22	1.83	0.44
24:E:361:PHE:HE1	24:E:366:ASP:HB3	1.75	0.44
25:F:95:GLU:C	25:F:96:LEU:HD12	2.42	0.44
25:F:134:LEU:CD1	25:F:160:ILE:H	2.30	0.44
25:F:332:THR:CG2	25:F:334:ARG:H	2.30	0.44
25:F:341:ALA:HA	25:F:344:ARG:HH11	1.81	0.44
25:F:382:GLU:O	25:F:386:ARG:NH1	2.48	0.44
26:K:165:CYS:CB	26:K:168:ARG:HB2	2.48	0.44
27:U:200:VAL:O	27:U:204:ILE:HG22	2.17	0.44
27:U:792:ASN:OD1	27:U:796:LYS:HB3	2.18	0.44
27:U:902:PRO:HB2	27:U:912:ILE:HD13	1.98	0.44
1:C:219:LEU:HB2	1:C:254:ILE:HD13	1.99	0.44
1:C:328:ILE:HG21	1:C:359:VAL:HB	2.00	0.44
2:D:116:LEU:HD23	2:D:119:ILE:CG1	2.48	0.44
2:D:272:THR:O	2:D:273:LYS:C	2.60	0.44
4:H:87:VAL:CG1	4:H:88:HIS:N	2.80	0.44
4:H:230:LEU:O	4:H:233:ILE:HG22	2.18	0.44
5:I:4:ARG:HA	5:I:4:ARG:HD2	1.71	0.44
6:J:10:PHE:HE1	6:J:16:LEU:CG	2.21	0.44
6:J:23:GLN:HG3	6:J:149:PRO:HG2	1.99	0.44
7:L:7:ASP:OD1	7:L:24:TYR:CE2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:L:88:MET:HG2	7:L:112:ILE:HD13	1.99	0.44
7:L:199:LEU:HD12	7:L:205:LEU:HD23	1.99	0.44
9:V:72:LEU:O	9:V:76:LYS:HB3	2.18	0.44
9:V:81:GLN:CA	9:V:84:LYS:HB3	2.44	0.44
9:V:162:GLU:CD	9:V:203:LEU:HA	2.42	0.44
9:V:364:THR:HG21	28:e:43:TRP:CH2	2.53	0.44
9:V:400:HIS:CG	17:d:234:GLN:HB3	2.53	0.44
11:X:74:ARG:HG2	11:X:74:ARG:NH1	2.33	0.44
11:X:225:TRP:O	11:X:226:LYS:C	2.60	0.44
11:X:339:ILE:HD11	11:X:345:VAL:HG11	1.98	0.44
12:Y:11:LEU:HB3	12:Y:12:PRO:HD2	1.99	0.44
12:Y:220:VAL:CB	12:Y:249:VAL:HG11	2.47	0.44
12:Y:325:VAL:HG21	12:Y:329:PHE:HD2	1.82	0.44
13:Z:250:TYR:O	13:Z:254:ASN:HB2	2.18	0.44
13:Z:263:ALA:HB1	16:c:288:VAL:HG13	2.00	0.44
14:a:296:ILE:HG21	14:a:307:VAL:CG2	2.42	0.44
16:c:26:ASP:OD1	16:c:26:ASP:C	2.60	0.44
16:c:279:ASP:OD1	16:c:279:ASP:C	2.60	0.44
17:d:197:LEU:CD2	17:d:259:PHE:HB3	2.48	0.44
18:f:44:GLU:O	22:A:23:ARG:NH2	2.51	0.44
18:f:431:LYS:HA	19:g:171:LEU:CB	2.43	0.44
18:f:479:LEU:HD21	18:f:513:GLU:CG	2.44	0.44
18:f:726:ILE:HG21	18:f:762:VAL:N	2.33	0.44
19:g:129:ILE:HG23	19:g:153:ALA:CB	2.46	0.44
22:A:92:PRO:HG3	22:A:144:ARG:NH1	2.33	0.44
22:A:233:THR:C	22:A:235:ALA:N	2.75	0.44
23:B:250:VAL:HG23	23:B:252:GLY:H	1.83	0.44
24:E:77:PRO:HD2	24:E:79:TYR:OH	2.18	0.44
24:E:253:ILE:HA	24:E:256:THR:HG22	1.99	0.44
24:E:304:PRO:HB2	24:E:309:ARG:HD2	1.99	0.44
25:F:244:THR:HA	25:F:245:LYS:NZ	2.33	0.44
27:U:353:LEU:HD11	27:U:373:ASN:HB2	1.99	0.44
27:U:661:ALA:C	27:U:746:ILE:HD11	2.42	0.44
1:C:214:VAL:HG11	1:C:219:LEU:CD2	2.41	0.44
1:C:276:LEU:CD2	1:C:305:LEU:HD11	2.48	0.44
2:D:67:ASN:ND2	27:U:607:VAL:O	2.50	0.44
2:D:369:LYS:HA	2:D:369:LYS:CE	2.10	0.44
3:G:98:ALA:HA	3:G:109:ILE:HG21	1.99	0.44
3:G:143:ILE:HD13	3:G:143:ILE:N	2.32	0.44
3:G:171:LYS:CE	3:G:171:LYS:CA	2.90	0.44
4:H:74:LEU:HD13	4:H:134:LEU:CD2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:119:GLN:CG	6:J:78:ALA:HB1	2.47	0.44
7:L:224:TYR:CD1	7:L:232:PHE:HE1	2.36	0.44
9:V:82:LEU:HD22	9:V:162:GLU:CG	2.48	0.44
9:V:113:LEU:HD11	9:V:171:VAL:HA	1.99	0.44
10:W:135:LYS:CB	10:W:138:VAL:HG12	2.46	0.44
10:W:331:GLY:HA3	10:W:337:ALA:CB	2.34	0.44
10:W:409:LEU:HD23	11:X:344:ARG:HH22	1.83	0.44
11:X:192:SER:O	11:X:196:THR:HG22	2.18	0.44
11:X:270:LEU:HD12	11:X:270:LEU:N	2.33	0.44
11:X:318:ILE:N	11:X:318:ILE:HD12	2.32	0.44
11:X:378:LEU:HD23	11:X:378:LEU:HA	1.87	0.44
11:X:407:MET:CE	11:X:410:VAL:HG11	2.48	0.44
12:Y:214:MET:HE3	12:Y:219:PHE:CD2	2.53	0.44
13:Z:205:LEU:HD11	14:a:356:TRP:CD2	2.52	0.44
14:a:122:LYS:HG3	14:a:126:GLY:O	2.17	0.44
14:a:317:VAL:CG1	14:a:319:LEU:HD11	2.47	0.44
14:a:364:GLU:O	14:a:368:GLU:HG2	2.18	0.44
15:b:5:SER:HB2	15:b:64:LEU:HD11	2.00	0.44
15:b:11:ASP:HB2	15:b:112:PHE:O	2.18	0.44
15:b:51:LEU:HD23	15:b:71:ILE:CG2	2.30	0.44
15:b:79:GLN:O	15:b:81:LYS:HG2	2.17	0.44
15:b:86:PHE:CE1	15:b:140:ILE:HD11	2.53	0.44
17:d:127:ASN:ND2	17:d:129:LEU:O	2.51	0.44
17:d:341:GLU:OE1	17:d:341:GLU:HA	2.18	0.44
18:f:182:GLU:N	18:f:183:PRO:HD2	2.33	0.44
18:f:246:SER:HA	18:f:249:LEU:CD1	2.47	0.44
18:f:799:VAL:HG21	18:f:821:LEU:HD23	1.98	0.44
19:g:128:LYS:HB3	19:g:158:LEU:CD2	2.48	0.44
20:u:216:GLN:OE1	20:u:216:GLN:O	2.36	0.44
23:B:260:LEU:HD12	23:B:304:GLU:CG	2.47	0.44
24:E:206:LYS:HB2	24:E:206:LYS:HE2	1.59	0.44
24:E:303:LEU:HD12	24:E:303:LEU:HA	1.77	0.44
26:K:236:GLU:O	26:K:239:LYS:HG2	2.18	0.44
27:U:41:SER:O	27:U:42:VAL:C	2.61	0.44
27:U:110:LYS:O	27:U:110:LYS:HD3	2.18	0.44
27:U:873:PRO:CB	27:U:876:GLN:HG3	2.47	0.44
27:U:878:LEU:HD12	27:U:882:ALA:HB1	1.98	0.44
1:C:149:GLU:HA	1:C:149:GLU:OE2	2.18	0.44
3:G:72:ILE:HG21	3:G:114:LEU:CD2	2.45	0.44
3:G:80:MET:HE1	3:G:138:MET:CG	2.42	0.44
3:G:191:PHE:O	3:G:195:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:100:VAL:HG12	4:H:101:TYR:CE1	2.53	0.44
4:H:160:ALA:O	5:I:55:LEU:HD13	2.18	0.44
5:I:206:LEU:HD23	5:I:211:VAL:HG11	1.99	0.44
6:J:36:ARG:HG3	6:J:36:ARG:HH11	1.82	0.44
6:J:198:VAL:O	6:J:199:VAL:C	2.61	0.44
7:L:72:ILE:C	7:L:72:ILE:CD1	2.91	0.44
7:L:81:ALA:HB2	7:L:130:VAL:CG2	2.48	0.44
7:L:183:ASN:ND2	7:L:186:GLU:OE1	2.51	0.44
7:L:228:ASP:C	7:L:231:PRO:HD2	2.42	0.44
8:M:148:LEU:O	8:M:159:GLY:HA2	2.17	0.44
9:V:114:TYR:CD1	9:V:132:LEU:HD12	2.53	0.44
11:X:311:ALA:HA	11:X:315:ASP:CG	2.42	0.44
14:a:118:ILE:CG1	14:a:122:LYS:HB3	2.48	0.44
14:a:292:THR:HG22	14:a:294:GLU:N	2.33	0.44
15:b:98:LYS:HG2	20:u:203:SER:HB2	1.99	0.44
15:b:109:ILE:O	15:b:138:VAL:HA	2.18	0.44
16:c:68:ARG:NE	16:c:208:ARG:HH12	2.16	0.44
16:c:161:ARG:NH2	16:c:203:ILE:HD13	2.33	0.44
17:d:190:GLN:O	17:d:193:GLY:N	2.51	0.44
18:f:124:ASP:HB3	18:f:154:TRP:CZ2	2.52	0.44
19:g:112:LEU:HD11	19:g:116:ILE:CG1	2.46	0.44
20:u:238:PHE:N	20:u:238:PHE:CD1	2.86	0.44
23:B:120:HIS:HD2	23:B:132:TYR:CZ	2.36	0.44
23:B:225:TYR:CD2	23:B:334:ILE:HG21	2.53	0.44
24:E:56:ILE:CD1	24:E:102:MET:HA	2.47	0.44
24:E:153:LEU:CD1	24:E:191:LEU:HD23	2.48	0.44
25:F:139:LEU:N	25:F:139:LEU:HD23	2.33	0.44
26:K:190:THR:HG22	26:K:193:GLU:H	1.82	0.44
27:U:31:VAL:HG22	27:U:38:ILE:CD1	2.48	0.44
27:U:247:GLN:HG3	27:U:904:LYS:HB2	2.00	0.44
27:U:616:ARG:HD3	27:U:770:TRP:CZ3	2.53	0.44
27:U:624:PHE:CZ	27:U:658:ILE:HD13	2.52	0.44
27:U:877:LEU:O	27:U:877:LEU:HD23	2.18	0.44
1:C:198:LEU:HD12	1:C:198:LEU:O	2.18	0.44
1:C:307:ARG:NH1	1:C:309:GLY:HA3	2.32	0.44
2:D:265:ASP:OD1	2:D:266:GLU:N	2.51	0.44
2:D:274:ARG:HB3	2:D:286:GLN:OE1	2.18	0.44
3:G:139:ILE:HG12	3:G:153:LYS:HG3	1.99	0.44
4:H:98:TYR:O	4:H:102:GLN:N	2.45	0.44
4:H:158:TRP:CD1	4:H:161:THR:HG21	2.53	0.44
7:L:188:VAL:HG21	7:L:212:ILE:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:96:ARG:HG2	9:V:97:ALA:N	2.32	0.44
9:V:150:ARG:HA	9:V:154:ALA:CB	2.48	0.44
9:V:313:LEU:HD21	9:V:329:HIS:CE1	2.50	0.44
11:X:157:LEU:HA	11:X:157:LEU:HD23	1.76	0.44
11:X:349:HIS:NE2	11:X:353:LEU:CD1	2.81	0.44
11:X:390:GLU:O	11:X:390:GLU:CG	2.66	0.44
13:Z:70:LEU:HD23	13:Z:70:LEU:C	2.43	0.44
13:Z:84:LYS:HD3	25:F:79:LYS:HE3	2.00	0.44
13:Z:109:ASN:HD22	13:Z:140:SER:HB2	1.83	0.44
14:a:54:ASP:CB	14:a:86:GLN:HG3	2.48	0.44
14:a:54:ASP:HB3	14:a:86:GLN:HG3	1.99	0.44
14:a:112:ILE:CA	14:a:115:LYS:HG3	2.47	0.44
14:a:243:GLY:HA3	14:a:279:GLU:HG3	1.98	0.44
14:a:325:ASP:OD1	14:a:325:ASP:C	2.60	0.44
18:f:440:ILE:O	18:f:443:GLY:N	2.49	0.44
18:f:533:ASP:O	18:f:536:SER:OG	2.33	0.44
19:g:110:ARG:O	19:g:114:SER:OG	2.32	0.44
19:g:130:VAL:CG1	19:g:135:GLN:HE21	2.31	0.44
20:u:233:LEU:HD13	20:u:238:PHE:HE2	1.82	0.44
22:A:376:LEU:C	22:A:378:PRO:HD3	2.43	0.44
23:B:77:GLU:HG2	23:B:81:ASN:ND2	2.33	0.44
23:B:123:VAL:HG21	23:B:152:LEU:CD2	2.47	0.44
23:B:371:ARG:HG3	23:B:371:ARG:NH1	2.33	0.44
24:E:36:LEU:O	24:E:39:GLN:HG3	2.18	0.44
24:E:56:ILE:H	24:E:56:ILE:HG13	1.68	0.44
24:E:139:SER:O	24:E:143:ARG:HB2	2.18	0.44
25:F:133:PHE:CD1	25:F:133:PHE:C	2.95	0.44
27:U:117:ASP:CB	27:U:118:LEU:HD22	2.48	0.44
27:U:536:ALA:HB1	27:U:578:LEU:CD2	2.17	0.44
27:U:624:PHE:CE1	27:U:658:ILE:HD13	2.53	0.44
1:C:63:LEU:O	1:C:67:GLN:HG2	2.18	0.43
2:D:116:LEU:HB3	2:D:119:ILE:HD11	1.99	0.43
5:I:44:LEU:C	5:I:44:LEU:HD12	2.42	0.43
7:L:63:ILE:C	7:L:64:LEU:HD23	2.42	0.43
7:L:227:ASP:OD1	7:L:227:ASP:N	2.51	0.43
9:V:90:GLU:O	9:V:90:GLU:HG2	2.17	0.43
9:V:198:GLN:HB2	9:V:203:LEU:HD22	1.98	0.43
10:W:28:LEU:HB2	10:W:29:PRO:HD3	2.00	0.43
12:Y:167:LEU:HD12	12:Y:170:GLU:OE1	2.18	0.43
12:Y:263:LEU:O	12:Y:306:GLN:NE2	2.51	0.43
12:Y:304:TYR:CE1	12:Y:330:ILE:HD11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z:16:LEU:HD23	13:Z:162:ILE:CD1	2.48	0.43
14:a:360:VAL:HG23	16:c:308:VAL:CG2	2.47	0.43
16:c:219:ASN:HA	16:c:222:LYS:HB2	1.99	0.43
17:d:129:LEU:HD11	27:U:8:ILE:CD1	2.48	0.43
17:d:197:LEU:HD22	17:d:259:PHE:CB	2.48	0.43
18:f:229:VAL:HG13	18:f:230:CYS:N	2.32	0.43
18:f:237:VAL:HG12	18:f:248:LEU:CB	2.47	0.43
18:f:378:ASN:O	18:f:417:ILE:HD11	2.18	0.43
18:f:460:ASP:HB3	19:g:133:LYS:HD2	2.00	0.43
18:f:479:LEU:HD12	18:f:514:VAL:HG22	2.00	0.43
18:f:538:ILE:HG21	18:f:562:LEU:HA	2.00	0.43
18:f:716:ASP:HB3	18:f:721:VAL:HG13	2.00	0.43
18:f:723:TYR:HB3	18:f:761:MET:CE	2.48	0.43
18:f:802:SER:HB2	18:f:809:ILE:HG21	2.00	0.43
18:f:832:THR:HG23	18:f:870:THR:CG2	2.45	0.43
19:g:161:SER:O	19:g:165:ALA:CB	2.66	0.43
22:A:219:GLY:O	22:A:381:THR:HB	2.18	0.43
23:B:232:LYS:HB2	23:B:232:LYS:NZ	2.33	0.43
25:F:203:VAL:O	25:F:207:ASN:HB2	2.18	0.43
25:F:289:ASP:CG	25:F:332:THR:HG23	2.43	0.43
26:K:220:VAL:CA	26:K:228:MET:HE1	2.47	0.43
27:U:92:ASP:HA	27:U:97:VAL:HG11	2.00	0.43
27:U:265:ILE:HG13	27:U:265:ILE:H	1.58	0.43
27:U:420:LEU:HD12	27:U:420:LEU:O	2.18	0.43
27:U:587:ALA:CB	27:U:624:PHE:HD2	2.28	0.43
27:U:797:MET:HB3	27:U:925:VAL:O	2.17	0.43
27:U:869:LYS:O	27:U:872:GLU:CG	2.66	0.43
27:U:895:PRO:CG	27:U:902:PRO:HD3	2.48	0.43
1:C:301:LEU:HD13	1:C:305:LEU:HD23	1.98	0.43
4:H:34:PRO:CD	4:H:49:GLU:OE1	2.66	0.43
5:I:88:ASN:OD1	5:I:88:ASN:C	2.61	0.43
9:V:121:PHE:CZ	9:V:159:LEU:HD12	2.52	0.43
9:V:175:MET:CG	9:V:184:ALA:HB2	2.47	0.43
9:V:186:LYS:N	9:V:186:LYS:HD3	2.33	0.43
9:V:334:VAL:HG21	9:V:391:THR:HG21	2.00	0.43
10:W:413:ILE:O	10:W:414:ASN:C	2.61	0.43
11:X:394:ASP:CG	12:Y:362:LYS:HE2	2.44	0.43
13:Z:75:LEU:HD23	13:Z:75:LEU:C	2.43	0.43
13:Z:224:HIS:H	13:Z:227:ILE:HG21	1.83	0.43
14:a:54:ASP:HB3	14:a:86:GLN:CG	2.48	0.43
15:b:79:GLN:HG3	15:b:81:LYS:CG	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c:293:THR:O	16:c:297:VAL:HG23	2.18	0.43
17:d:262:ILE:HG13	17:d:262:ILE:H	1.63	0.43
18:f:659:LEU:O	18:f:659:LEU:HD12	2.19	0.43
18:f:831:VAL:HG22	18:f:871:PRO:CB	2.20	0.43
19:g:105:LEU:HD13	19:g:142:LEU:CD2	2.48	0.43
19:g:109:GLY:C	19:g:112:LEU:H	2.27	0.43
19:g:126:TYR:HA	19:g:160:GLN:C	2.42	0.43
20:u:137:CYS:C	20:u:138:LEU:HD23	2.43	0.43
24:E:367:PHE:HA	24:E:370:ALA:HB3	1.98	0.43
25:F:167:GLU:OE1	25:F:167:GLU:HA	2.18	0.43
25:F:188:ILE:HD11	25:F:235:LEU:HG	2.00	0.43
25:F:233:LYS:N	29:F:501:ATP:O2B	2.51	0.43
27:U:8:ILE:O	27:U:11:LEU:N	2.51	0.43
27:U:35:TRP:CD1	27:U:35:TRP:H	2.36	0.43
27:U:804:SER:OG	27:U:805:ASN:N	2.51	0.43
1:C:306:LEU:O	1:C:314:LYS:HE2	2.18	0.43
1:C:364:THR:O	1:C:368:MET:HG2	2.17	0.43
2:D:238:LYS:NZ	24:E:207:TYR:HB2	2.34	0.43
2:D:303:VAL:O	2:D:303:VAL:CG1	2.65	0.43
2:D:360:LEU:HD23	2:D:360:LEU:HA	1.75	0.43
2:D:377:SER:O	2:D:378:ILE:C	2.61	0.43
3:G:58:ASP:OD1	3:G:59:LYS:N	2.51	0.43
4:H:174:LEU:C	4:H:176:LYS:N	2.76	0.43
4:H:179:ASN:H	4:H:182:LEU:HD21	1.82	0.43
5:I:205:LYS:O	5:I:206:LEU:C	2.61	0.43
7:L:56:LEU:HD12	26:K:185:TYR:CD2	2.52	0.43
7:L:79:ALA:HB2	26:K:121:LEU:HD22	1.98	0.43
9:V:324:PHE:CE1	9:V:328:VAL:HG21	2.54	0.43
10:W:19:ASP:HA	10:W:59:ASP:OD2	2.17	0.43
10:W:357:ARG:HD3	10:W:357:ARG:HA	1.70	0.43
11:X:115:GLU:O	11:X:118:LYS:HB2	2.18	0.43
11:X:334:ASN:ND2	11:X:354:ILE:HD13	2.32	0.43
12:Y:169:GLU:OE1	12:Y:169:GLU:C	2.62	0.43
12:Y:293:ARG:HG2	12:Y:293:ARG:NH1	2.32	0.43
12:Y:387:ILE:CG2	13:Z:275:LEU:HD23	2.47	0.43
13:Z:38:VAL:HG21	13:Z:75:LEU:CD1	2.49	0.43
13:Z:67:VAL:HG11	15:b:91:ARG:HB2	1.99	0.43
14:a:9:GLN:O	14:a:12:GLN:HB3	2.18	0.43
14:a:59:LEU:HD12	14:a:59:LEU:HA	1.88	0.43
14:a:96:PHE:O	14:a:100:THR:HG23	2.18	0.43
14:a:297:ALA:HB1	14:a:302:ILE:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:243:LYS:O	17:d:246:LEU:HG	2.19	0.43
18:f:388:ASP:CB	18:f:417:ILE:HD13	2.48	0.43
18:f:701:ASN:ND2	18:f:703:ARG:HH12	2.04	0.43
18:f:893:ILE:HD12	18:f:893:ILE:N	2.34	0.43
19:g:142:LEU:HA	19:g:145:GLN:OE1	2.18	0.43
19:g:165:ALA:C	19:g:167:LYS:H	2.22	0.43
22:A:140:VAL:HG21	22:A:149:ILE:HD13	1.99	0.43
22:A:161:VAL:HG12	22:A:263:MET:SD	2.58	0.43
22:A:170:PRO:CG	22:A:230:ALA:HB3	2.49	0.43
23:B:380:LEU:H	23:B:380:LEU:HD12	1.83	0.43
24:E:36:LEU:HB3	25:F:69:MET:HG2	2.01	0.43
25:F:201:ALA:C	25:F:202:ILE:HG12	2.43	0.43
25:F:413:THR:OG1	25:F:414:GLU:N	2.51	0.43
25:F:425:LEU:CD1	25:F:432:LYS:HB2	2.48	0.43
25:F:428:GLN:O	25:F:429:ALA:HB3	2.19	0.43
26:K:91:LYS:HE2	26:K:95:GLU:HG3	2.00	0.43
27:U:38:ILE:H	27:U:38:ILE:HG13	1.56	0.43
27:U:812:ALA:O	27:U:813:TYR:C	2.62	0.43
1:C:274:LEU:HD12	23:B:289:ALA:HB2	2.00	0.43
1:C:289:ILE:HD13	1:C:289:ILE:N	2.33	0.43
2:D:235:PHE:O	2:D:288:ILE:HD11	2.19	0.43
2:D:337:ASP:OD1	2:D:338:ARG:N	2.52	0.43
4:H:13:PHE:HE2	5:I:129:PRO:O	2.02	0.43
4:H:100:VAL:HG12	4:H:101:TYR:HD1	1.83	0.43
5:I:90:LEU:HD11	5:I:136:TYR:CE2	2.34	0.43
5:I:99:LEU:C	5:I:99:LEU:HD23	2.43	0.43
5:I:139:TRP:CD1	5:I:218:ARG:HG3	2.54	0.43
5:I:192:LEU:O	5:I:196:VAL:HG12	2.18	0.43
6:J:7:ILE:HD11	6:J:126:PRO:HD3	2.00	0.43
6:J:98:VAL:HG12	6:J:100:ASP:OD1	2.19	0.43
7:L:38:LEU:HD23	7:L:38:LEU:O	2.19	0.43
7:L:125:ARG:HH22	26:K:125:GLU:CG	2.18	0.43
8:M:63:ASN:HB2	8:M:81:LEU:HD23	2.00	0.43
8:M:66:LEU:HD12	8:M:66:LEU:HA	1.46	0.43
8:M:216:VAL:CG1	8:M:224:HIS:HA	2.49	0.43
9:V:175:MET:HE1	9:V:180:ARG:HH21	1.82	0.43
9:V:212:TYR:CD2	9:V:213:TYR:CD1	3.06	0.43
9:V:248:ALA:CB	9:V:276:PHE:HE1	2.31	0.43
9:V:258:TYR:HD2	9:V:267:ALA:CA	2.32	0.43
9:V:287:ARG:NH2	28:e:21:GLU:CG	2.81	0.43
9:V:338:LEU:HG	9:V:398:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:348:PHE:H	9:V:348:PHE:HD1	1.67	0.43
9:V:353:LEU:HA	9:V:356:SER:OG	2.19	0.43
9:V:394:LEU:HD23	9:V:397:ARG:NH1	2.33	0.43
10:W:108:CYS:CB	10:W:128:LEU:HD11	2.38	0.43
10:W:381:LEU:HD23	10:W:381:LEU:N	2.33	0.43
11:X:76:PHE:CE2	11:X:80:ILE:HD13	2.53	0.43
11:X:232:PHE:CE2	11:X:253:TYR:HB3	2.54	0.43
12:Y:101:ARG:HA	12:Y:101:ARG:NH1	2.34	0.43
12:Y:152:MET:HA	12:Y:152:MET:CE	2.43	0.43
13:Z:8:LYS:HB2	13:Z:8:LYS:HE2	1.76	0.43
14:a:70:ARG:HH12	15:b:17:ARG:NE	2.16	0.43
14:a:80:ILE:HG21	14:a:96:PHE:HZ	1.82	0.43
14:a:226:ARG:HH22	14:a:233:LEU:HB3	1.83	0.43
14:a:269:LEU:HA	14:a:272:ILE:HG22	2.00	0.43
15:b:37:CYS:SG	15:b:38:HIS:N	2.91	0.43
17:d:238:GLU:O	17:d:238:GLU:CG	2.67	0.43
17:d:347:GLU:OE1	17:d:347:GLU:HA	2.18	0.43
18:f:233:LEU:CB	18:f:252:ALA:HB2	2.48	0.43
18:f:692:LEU:HB3	18:f:800:LEU:CD1	2.45	0.43
18:f:723:TYR:C	18:f:761:MET:HE1	2.43	0.43
18:f:731:MET:O	18:f:734:SER:OG	2.19	0.43
19:g:83:ALA:HB1	19:g:150:ASN:CG	2.43	0.43
22:A:139:ARG:CZ	22:A:156:LYS:HG3	2.49	0.43
23:B:138:PHE:HE2	23:B:160:ILE:HG23	1.83	0.43
23:B:144:LEU:HD12	23:B:144:LEU:HA	1.72	0.43
23:B:162:VAL:HG13	23:B:162:VAL:O	2.19	0.43
24:E:35:GLU:O	24:E:38:LYS:HD2	2.19	0.43
24:E:38:LYS:H	24:E:38:LYS:HG3	1.41	0.43
24:E:49:ALA:HB1	25:F:138:GLY:HA2	2.01	0.43
24:E:145:LEU:CD1	24:E:172:LEU:HD21	2.48	0.43
24:E:172:LEU:CD1	24:E:276:ILE:HG23	2.49	0.43
26:K:28:ILE:HG13	26:K:158:PRO:CG	2.43	0.43
26:K:34:GLY:O	26:K:53:ARG:NH2	2.51	0.43
26:K:88:LEU:HD22	26:K:116:VAL:CG1	2.39	0.43
27:U:177:LEU:HD11	27:U:205:TYR:CE1	2.52	0.43
27:U:538:GLU:O	27:U:538:GLU:CG	2.64	0.43
27:U:617:ALA:O	27:U:621:SER:HB2	2.17	0.43
27:U:873:PRO:O	27:U:874:ASN:CB	2.66	0.43
27:U:900:TYR:HB3	27:U:914:LEU:CD2	2.40	0.43
1:C:311:ILE:HD13	1:C:311:ILE:HA	1.79	0.43
2:D:100:THR:C	2:D:115:ILE:HG13	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:220:ALA:O	2:D:223:THR:HG22	2.19	0.43
3:G:17:SER:HB2	3:G:18:PRO:HD2	1.99	0.43
3:G:67:THR:HA	3:G:216:GLU:OE2	2.18	0.43
4:H:72:ILE:HA	4:H:137:CYS:O	2.19	0.43
4:H:119:GLN:CG	5:I:81:SER:HB2	2.49	0.43
5:I:45:LEU:HD22	5:I:65:ILE:HD11	1.98	0.43
5:I:211:VAL:CG2	5:I:212:GLU:N	2.82	0.43
6:J:51:ALA:HB3	6:J:54:GLN:CG	2.46	0.43
7:L:50:LYS:N	7:L:209:ASN:O	2.51	0.43
7:L:211:SER:HB2	7:L:225:ASP:OD1	2.18	0.43
8:M:123:THR:O	8:M:123:THR:OG1	2.36	0.43
8:M:169:ARG:H	8:M:169:ARG:HG3	1.60	0.43
9:V:236:ARG:NH1	27:U:70:HIS:HA	2.33	0.43
9:V:400:HIS:ND1	17:d:234:GLN:HB3	2.34	0.43
9:V:428:LEU:HD13	9:V:434:ALA:HA	2.01	0.43
9:V:447:ILE:CG2	9:V:448:GLU:H	2.30	0.43
10:W:166:LEU:HD23	10:W:192:LEU:HD11	2.00	0.43
10:W:347:GLY:HA2	10:W:350:ARG:HD2	2.01	0.43
11:X:393:VAL:O	11:X:394:ASP:OD1	2.36	0.43
12:Y:41:LEU:O	12:Y:41:LEU:HD12	2.18	0.43
12:Y:282:MET:HE3	12:Y:295:TYR:CG	2.53	0.43
13:Z:124:ILE:HA	13:Z:134:PRO:O	2.18	0.43
14:a:54:ASP:O	14:a:58:LYS:CB	2.66	0.43
14:a:57:ILE:HG13	14:a:61:GLU:HG2	2.01	0.43
14:a:61:GLU:O	14:a:65:SER:HB3	2.18	0.43
14:a:115:LYS:HD2	14:a:137:ASP:OD1	2.19	0.43
14:a:357:CYS:O	14:a:360:VAL:HG12	2.19	0.43
15:b:63:THR:HG22	15:b:64:LEU:N	2.34	0.43
15:b:171:VAL:HG11	15:b:187:PRO:HG3	1.99	0.43
16:c:168:MET:HE1	16:c:169:VAL:CG1	2.49	0.43
17:d:193:GLY:HA3	17:d:225:TYR:HB3	2.00	0.43
17:d:349:ILE:HD13	17:d:349:ILE:N	2.34	0.43
18:f:185:LEU:CD2	18:f:189:LYS:HE2	2.48	0.43
20:u:215:THR:HG21	20:u:238:PHE:CE1	2.53	0.43
22:A:94:GLN:HG2	22:A:115:VAL:HG13	2.00	0.43
22:A:191:VAL:HG13	22:A:271:LEU:HD11	2.00	0.43
22:A:333:ARG:HH21	22:A:336:ARG:NH1	2.16	0.43
23:B:52:VAL:HG11	23:B:65:LEU:HD21	1.99	0.43
23:B:329:MET:SD	23:B:347:ILE:HD11	2.58	0.43
24:E:93:LYS:O	24:E:94:PRO:C	2.60	0.43
24:E:168:LYS:HA	24:E:274:LYS:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:E:270:LEU:O	24:E:271:HIS:CG	2.71	0.43
24:E:309:ARG:NH2	24:E:332:VAL:O	2.51	0.43
25:F:90:VAL:CG1	25:F:90:VAL:O	2.67	0.43
26:K:199:LEU:HD12	26:K:210:LEU:HD21	2.00	0.43
27:U:236:LEU:HD23	27:U:245:ALA:HA	1.99	0.43
27:U:257:SER:O	27:U:261:LEU:HD12	2.18	0.43
27:U:616:ARG:CD	27:U:770:TRP:CZ3	3.02	0.43
1:C:234:LEU:HD12	1:C:237:MET:CE	2.49	0.43
2:D:194:ILE:O	2:D:194:ILE:HG22	2.19	0.43
2:D:377:SER:C	2:D:379:CYS:H	2.25	0.43
2:D:378:ILE:HG13	2:D:406:VAL:HB	1.98	0.43
3:G:22:LEU:HD23	3:G:22:LEU:HA	1.85	0.43
3:G:54:LYS:HE2	3:G:56:VAL:HG21	2.01	0.43
4:H:34:PRO:HD2	4:H:49:GLU:OE1	2.19	0.43
6:J:34:GLY:HA3	6:J:132:LEU:HD13	2.00	0.43
6:J:93:SER:O	6:J:97:THR:HG23	2.19	0.43
8:M:44:GLY:HA3	8:M:216:VAL:O	2.19	0.43
9:V:102:PRO:O	9:V:106:ARG:NH2	2.51	0.43
9:V:212:TYR:OH	28:e:21:GLU:OE2	2.25	0.43
10:W:60:MET:N	10:W:97:LEU:HD12	2.34	0.43
10:W:88:MET:HE1	10:W:130:MET:SD	2.58	0.43
10:W:346:GLU:HB2	10:W:350:ARG:CZ	2.48	0.43
10:W:392:PHE:O	10:W:392:PHE:HD1	2.01	0.43
11:X:118:LYS:HB3	11:X:118:LYS:HE3	1.89	0.43
11:X:407:MET:HA	11:X:407:MET:CE	2.35	0.43
12:Y:82:LYS:HD2	12:Y:82:LYS:O	2.18	0.43
13:Z:28:LYS:HB3	13:Z:28:LYS:HE2	1.72	0.43
15:b:6:THR:HB	15:b:49:VAL:HG12	2.00	0.43
15:b:103:LYS:HB2	20:u:134:GLY:O	2.18	0.43
16:c:121:TRP:HZ3	16:c:123:SER:OG	2.01	0.43
17:d:127:ASN:ND2	17:d:136:LEU:HD21	2.34	0.43
17:d:129:LEU:HB3	17:d:130:PRO:CD	2.41	0.43
17:d:130:PRO:HD3	17:d:177:ASP:OD2	2.17	0.43
17:d:165:GLU:HG2	17:d:198:PHE:CZ	2.54	0.43
17:d:300:THR:HA	17:d:303:ALA:CB	2.34	0.43
18:f:124:ASP:CG	18:f:147:SER:HB3	2.44	0.43
18:f:446:LEU:O	18:f:450:ILE:HB	2.19	0.43
18:f:833:PHE:HA	18:f:840:LEU:N	2.32	0.43
18:f:846:VAL:HB	18:f:868:HIS:CD2	2.53	0.43
19:g:113:ARG:O	19:g:124:GLU:HA	2.19	0.43
19:g:127:ILE:O	19:g:127:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:u:221:THR:HG22	20:u:224:ASP:OD2	2.18	0.43
22:A:115:VAL:HB	22:A:118:PHE:HB3	2.00	0.43
22:A:384:GLU:OE1	22:A:417:ILE:HD13	2.19	0.43
23:B:187:ILE:HG22	23:B:234:LEU:HD21	1.99	0.43
23:B:294:ARG:HG3	23:B:294:ARG:HH11	1.83	0.43
24:E:363:VAL:HG13	24:E:365:GLU:HB2	1.99	0.43
27:U:347:ASN:CB	27:U:813:TYR:HE2	2.27	0.43
27:U:736:ILE:HD13	27:U:783:TYR:OH	2.18	0.43
1:C:43:ARG:HD3	9:V:498:PRO:CA	2.48	0.43
1:C:46:GLN:OE1	27:U:639:LEU:HB2	2.19	0.43
1:C:165:ILE:HG21	1:C:203:VAL:HG11	2.00	0.43
1:C:338:LEU:O	12:Y:174:TRP:HB3	2.19	0.43
2:D:45:LYS:CG	27:U:187:LEU:HD13	2.48	0.43
2:D:391:ARG:NH2	2:D:398:ASP:OD2	2.52	0.43
3:G:52:THR:CG2	3:G:216:GLU:HB2	2.49	0.43
3:G:240:VAL:HG22	10:W:94:ARG:HD3	2.01	0.43
6:J:102:VAL:HG13	6:J:106:TYR:CD2	2.53	0.43
6:J:108:THR:OG1	6:J:133:ILE:HG21	2.19	0.43
6:J:118:TYR:CD2	6:J:127:PHE:HE2	2.35	0.43
7:L:56:LEU:HD12	26:K:167:ALA:HB3	2.01	0.43
7:L:121:GLN:HG3	8:M:129:ARG:NH2	2.34	0.43
7:L:125:ARG:CZ	26:K:125:GLU:HA	2.49	0.43
9:V:192:MET:CE	9:V:214:HIS:HB2	2.46	0.43
9:V:324:PHE:CD2	28:e:19:PHE:HE2	2.35	0.43
10:W:102:ALA:C	10:W:106:GLN:NE2	2.77	0.43
10:W:230:MET:HE1	10:W:233:LEU:CG	2.48	0.43
11:X:68:GLY:O	11:X:71:LYS:HG3	2.19	0.43
11:X:225:TRP:HA	11:X:228:ALA:HB3	2.00	0.43
11:X:244:SER:HG	11:X:246:LYS:NZ	2.13	0.43
12:Y:16:ASP:HB3	12:Y:19:ILE:HD12	1.99	0.43
14:a:153:SER:OG	14:a:157:ASP:OD2	2.37	0.43
14:a:221:VAL:CB	14:a:225:LEU:HD12	2.49	0.43
14:a:247:ARG:O	14:a:251:LEU:HD13	2.18	0.43
15:b:7:MET:CE	15:b:7:MET:HA	2.49	0.43
17:d:295:THR:HB	17:d:298:LYS:CG	2.32	0.43
18:f:304:PHE:HE1	18:f:321:MET:C	2.27	0.43
18:f:446:LEU:CD2	18:f:483:PHE:HB3	2.48	0.43
18:f:720:GLU:CD	18:f:806:VAL:HG22	2.44	0.43
18:f:785:ARG:NH2	18:f:877:GLY:H	2.15	0.43
19:g:137:GLN:O	19:g:145:GLN:NE2	2.46	0.43
22:A:190:VAL:HG21	22:A:209:PRO:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:190:VAL:HG23	22:A:339:ARG:HE	1.82	0.43
22:A:300:LEU:HA	22:A:300:LEU:HD23	1.84	0.43
22:A:433:ASN:O	26:K:66:LYS:HD3	2.18	0.43
23:B:98:LYS:HA	23:B:98:LYS:HD3	1.87	0.43
23:B:401:GLU:HB3	23:B:422:SER:OG	2.19	0.43
25:F:134:LEU:HG	25:F:158:TYR:O	2.19	0.43
25:F:265:ALA:O	25:F:269:ARG:HG2	2.19	0.43
27:U:655:ALA:O	27:U:659:CYS:CB	2.66	0.43
27:U:764:LEU:HD12	27:U:764:LEU:O	2.17	0.43
27:U:809:SER:HA	27:U:872:GLU:OE1	2.17	0.43
2:D:89:ILE:HD11	24:E:80:VAL:CG2	2.48	0.43
2:D:103:VAL:HG11	2:D:132:LEU:HD22	1.98	0.43
2:D:282:ASP:CA	2:D:285:VAL:HG12	2.46	0.43
2:D:345:PHE:CD2	2:D:364:VAL:HG12	2.53	0.43
4:H:157:ALA:O	5:I:57:ASP:HB3	2.17	0.43
5:I:97:TYR:CD1	5:I:105:ILE:HA	2.54	0.43
5:I:111:VAL:HG21	5:I:148:TYR:HD2	1.83	0.43
5:I:134:LEU:HD23	5:I:150:SER:HB3	1.99	0.43
8:M:69:VAL:CG1	8:M:111:LEU:HD21	2.43	0.43
9:V:183:GLU:O	9:V:187:ILE:HG13	2.19	0.43
9:V:236:ARG:CZ	9:V:236:ARG:HB2	2.48	0.43
9:V:330:LYS:HB3	9:V:360:TYR:CZ	2.54	0.43
10:W:259:GLU:H	10:W:259:GLU:HG2	1.54	0.43
10:W:354:LEU:HD12	10:W:354:LEU:HA	1.81	0.43
10:W:438:LEU:HD11	13:Z:229:GLN:HG3	1.99	0.43
11:X:80:ILE:CG1	11:X:85:ALA:HB2	2.49	0.43
11:X:178:HIS:NE2	11:X:220:ALA:HB2	2.34	0.43
13:Z:209:ARG:HG2	13:Z:209:ARG:HH11	1.84	0.43
13:Z:227:ILE:CD1	14:a:346:ILE:HD11	2.48	0.43
13:Z:250:TYR:OH	17:d:330:ILE:HA	2.18	0.43
14:a:8:LEU:O	14:a:12:GLN:HB2	2.17	0.43
14:a:92:VAL:C	14:a:95:THR:HG1	2.22	0.43
14:a:93:ALA:O	14:a:97:LEU:HG	2.18	0.43
14:a:123:LEU:HD21	14:a:158:LEU:HA	2.01	0.43
14:a:123:LEU:CD2	14:a:161:LYS:HG3	2.49	0.43
14:a:236:THR:O	14:a:239:ALA:HB3	2.19	0.43
15:b:179:LEU:CG	15:b:180:ALA:H	2.31	0.43
16:c:282:ARG:O	16:c:286:GLU:HB3	2.18	0.43
17:d:198:PHE:O	17:d:201:SER:OG	2.36	0.43
19:g:112:LEU:HD22	19:g:142:LEU:CD1	2.49	0.43
20:u:126:LEU:CD1	20:u:175:VAL:HG21	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:93:VAL:HG21	25:F:145:LEU:HD12	1.99	0.43
25:F:134:LEU:HD11	25:F:160:ILE:H	1.84	0.43
25:F:203:VAL:CG2	25:F:244:THR:HG21	2.49	0.43
25:F:415:LEU:N	25:F:415:LEU:HD23	2.32	0.43
26:K:202:LEU:HD12	26:K:202:LEU:HA	1.81	0.43
27:U:151:ILE:O	27:U:155:LEU:HG	2.19	0.43
27:U:888:GLN:HA	27:U:891:VAL:HG22	2.00	0.43
28:e:50:ASP:N	28:e:50:ASP:OD1	2.50	0.43
1:C:73:VAL:O	1:C:73:VAL:HG13	2.19	0.43
1:C:97:VAL:HG11	1:C:116:LEU:HD13	2.01	0.43
1:C:141:GLU:OE1	1:C:141:GLU:HA	2.19	0.43
1:C:332:HIS:CD2	1:C:360:LYS:HB2	2.54	0.43
2:D:235:PHE:HD2	2:D:270:ILE:CD1	2.31	0.43
2:D:238:LYS:HE3	2:D:239:TYR:CE1	2.53	0.43
2:D:239:TYR:OH	22:A:289:ALA:CB	2.67	0.43
2:D:329:ARG:NH1	2:D:329:ARG:CG	2.82	0.43
2:D:410:ASP:O	2:D:412:GLN:N	2.52	0.43
3:G:202:LEU:HB3	3:G:210:PHE:CE2	2.52	0.43
4:H:33:ALA:HB3	4:H:64:LYS:HZ1	1.82	0.43
4:H:101:TYR:O	4:H:102:GLN:HB2	2.19	0.43
5:I:10:THR:CG2	5:I:125:GLY:HA2	2.49	0.43
5:I:41:ASP:C	5:I:41:ASP:OD1	2.62	0.43
5:I:114:LEU:HD23	5:I:136:TYR:OH	2.19	0.43
6:J:67:ASP:O	6:J:211:MET:HE1	2.19	0.43
7:L:148:CYS:SG	7:L:150:SER:HB3	2.59	0.43
8:M:184:MET:HB3	8:M:188:ASP:OD2	2.18	0.43
8:M:201:HIS:CD2	8:M:209:PHE:CD2	3.06	0.43
9:V:61:GLU:HA	9:V:64:GLN:CB	2.44	0.43
9:V:207:ALA:HB1	9:V:211:TYR:CZ	2.54	0.43
9:V:434:ALA:CA	9:V:437:ILE:HG22	2.45	0.43
9:V:498:PRO:O	9:V:499:LYS:C	2.62	0.43
10:W:105:VAL:HG21	10:W:132:THR:HG22	2.01	0.43
10:W:169:LEU:HD23	10:W:171:VAL:HG12	2.01	0.43
10:W:171:VAL:HG11	10:W:185:PHE:CG	2.54	0.43
10:W:302:TYR:HE1	10:W:327:GLU:OE1	2.01	0.43
11:X:70:LEU:HA	11:X:73:VAL:CG2	2.46	0.43
11:X:258:LYS:HD3	11:X:258:LYS:HA	1.87	0.43
12:Y:128:TYR:CZ	12:Y:163:LYS:HE2	2.54	0.43
13:Z:59:ASP:OD2	20:u:202:ARG:NH1	2.51	0.43
14:a:52:GLN:C	14:a:54:ASP:H	2.27	0.43
14:a:74:LEU:HA	14:a:77:VAL:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:84:VAL:CG2	14:a:93:ALA:CB	2.97	0.43
14:a:293:PHE:CD1	14:a:329:LYS:HG3	2.54	0.43
15:b:111:ALA:HB3	15:b:140:ILE:CD1	2.36	0.43
16:c:49:VAL:HG21	24:E:103:THR:HG21	2.01	0.43
16:c:179:SER:HA	27:U:725:MET:HE1	2.01	0.43
17:d:89:GLN:HA	17:d:92:THR:HG1	1.83	0.43
17:d:109:LEU:CD1	17:d:158:ARG:HA	2.49	0.43
18:f:188:VAL:O	18:f:192:VAL:HG23	2.19	0.43
18:f:690:VAL:HB	18:f:691:PRO:HD3	2.01	0.43
18:f:738:ASN:OD1	18:f:740:ARG:N	2.52	0.43
18:f:792:ALA:CA	18:f:824:ALA:HB2	2.49	0.43
23:B:112:LEU:HB2	23:B:150:VAL:HG11	2.00	0.43
23:B:204:PRO:HB3	23:B:218:PRO:CB	2.49	0.43
23:B:222:VAL:HG23	23:B:224:LEU:HD12	2.00	0.43
24:E:33:LEU:CD2	25:F:66:LEU:HD22	2.48	0.43
24:E:335:SER:HB3	24:E:338:PHE:CG	2.54	0.43
25:F:93:VAL:HA	25:F:124:ILE:HD13	2.01	0.43
25:F:202:ILE:HD13	25:F:327:LYS:HG3	2.01	0.43
25:F:311:LEU:HA	25:F:314:LEU:HB2	2.01	0.43
26:K:164:GLN:HG3	26:K:164:GLN:O	2.18	0.43
26:K:211:ASN:OD1	26:K:213:THR:N	2.48	0.43
27:U:641:SER:OG	27:U:675:MET:HE1	2.18	0.43
1:C:82:LYS:HE2	1:C:105:ILE:HG22	2.00	0.43
1:C:152:GLY:O	29:C:501:ATP:N6	2.48	0.43
1:C:273:MET:SD	1:C:273:MET:C	3.02	0.43
2:D:75:ALA:O	2:D:79:VAL:HG23	2.19	0.43
2:D:274:ARG:HH11	2:D:290:LEU:HD21	1.83	0.43
2:D:275:PHE:O	2:D:276:ASP:C	2.60	0.43
5:I:158:GLY:H	6:J:58:THR:CG2	2.32	0.43
5:I:206:LEU:O	5:I:237:ILE:HD12	2.19	0.43
7:L:55:GLU:HB2	26:K:182:GLN:CG	2.49	0.43
7:L:64:LEU:HD23	7:L:64:LEU:N	2.33	0.43
7:L:72:ILE:HG22	7:L:134:ILE:HG12	2.01	0.43
7:L:199:LEU:HA	7:L:199:LEU:HD23	1.80	0.43
9:V:225:ASP:HA	9:V:228:ARG:HB2	2.00	0.43
10:W:19:ASP:HA	10:W:59:ASP:CG	2.44	0.43
10:W:369:TYR:HB3	14:a:324:ILE:HD13	2.01	0.43
10:W:422:ASN:OD1	16:c:235:SER:HA	2.19	0.43
11:X:247:ALA:O	11:X:250:SER:HB2	2.18	0.43
12:Y:34:ASP:CG	12:Y:37:VAL:HG23	2.44	0.43
13:Z:6:VAL:HG22	13:Z:139:ILE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:Z:37:GLY:HA3	13:Z:95:TYR:CZ	2.54	0.43
14:a:12:GLN:HB2	14:a:23:HIS:CE1	2.53	0.43
14:a:12:GLN:CG	14:a:18:GLN:HB3	2.41	0.43
14:a:114:CYS:C	14:a:117:ALA:H	2.27	0.43
14:a:160:SER:HA	14:a:163:TYR:CB	2.42	0.43
14:a:226:ARG:NH2	14:a:233:LEU:HB3	2.34	0.43
14:a:277:LEU:HD23	14:a:277:LEU:C	2.44	0.43
15:b:1:MET:HE2	15:b:1:MET:HB2	1.86	0.43
15:b:8:VAL:N	15:b:50:GLY:O	2.52	0.43
15:b:15:TYR:CD2	15:b:116:PRO:HD2	2.52	0.43
15:b:23:PRO:CG	15:b:27:GLN:CD	2.81	0.43
15:b:89:GLY:O	15:b:92:VAL:HG12	2.18	0.43
17:d:117:GLY:CA	17:d:120:LYS:HE3	2.33	0.43
18:f:234:THR:HG23	18:f:786:GLN:OE1	2.19	0.43
18:f:237:VAL:HB	18:f:249:LEU:HD23	2.01	0.43
18:f:344:VAL:HG12	18:f:345:PRO:CD	2.48	0.43
18:f:808:ASN:OD1	18:f:808:ASN:N	2.51	0.43
18:f:878:GLU:OE1	18:f:878:GLU:CA	2.62	0.43
19:g:109:GLY:O	19:g:138:LEU:HD22	2.19	0.43
19:g:158:LEU:HB3	19:g:165:ALA:HB2	1.96	0.43
20:u:167:ILE:O	20:u:167:ILE:CG2	2.67	0.43
22:A:48:VAL:HG21	23:B:62:LEU:HD13	2.00	0.43
22:A:99:THR:O	22:A:99:THR:HG22	2.19	0.43
22:A:196:LEU:O	22:A:197:HIS:HD2	2.02	0.43
22:A:268:LYS:HG3	22:A:268:LYS:O	2.18	0.43
23:B:164:MET:H	23:B:164:MET:HG3	1.71	0.43
23:B:383:LEU:CD2	23:B:398:ILE:HD11	2.47	0.43
25:F:224:LEU:O	25:F:352:ILE:N	2.45	0.43
25:F:353:GLU:OE1	25:F:355:PRO:HD3	2.19	0.43
26:K:28:ILE:O	26:K:31:ILE:HG22	2.19	0.43
26:K:78:MET:CE	26:K:85:ALA:HB1	2.47	0.43
27:U:199:ARG:HA	27:U:202:VAL:HG12	2.01	0.43
27:U:399:TRP:HZ2	27:U:507:VAL:HG11	1.84	0.43
27:U:452:ASN:HD21	27:U:758:PRO:HG3	1.84	0.43
27:U:545:LEU:HB3	27:U:577:ILE:CG2	2.45	0.43
1:C:165:ILE:CD1	1:C:292:ILE:HD11	2.49	0.42
1:C:174:LEU:HD11	22:A:30:ILE:HD11	2.02	0.42
1:C:254:ILE:HA	1:C:269:VAL:CG2	2.48	0.42
2:D:89:ILE:HG13	24:E:80:VAL:HG23	1.99	0.42
2:D:251:PHE:O	2:D:255:LYS:HB2	2.19	0.42
2:D:343:LEU:HD21	11:X:226:LYS:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:17:ARG:NH2	5:I:19:TYR:HE1	2.16	0.42
6:J:104:VAL:HG13	6:J:133:ILE:HG22	2.01	0.42
7:L:126:ARG:HD2	26:K:15:PHE:CE1	2.54	0.42
9:V:63:SER:O	9:V:67:LEU:HD23	2.19	0.42
9:V:132:LEU:N	9:V:133:PRO:HD2	2.34	0.42
9:V:223:LYS:O	9:V:225:ASP:OD1	2.37	0.42
10:W:355:LYS:O	10:W:355:LYS:HD2	2.19	0.42
11:X:364:LYS:HD2	11:X:364:LYS:HA	1.79	0.42
11:X:407:MET:O	11:X:410:VAL:HG12	2.18	0.42
12:Y:155:ASP:OD1	12:Y:156:LEU:N	2.52	0.42
12:Y:218:THR:HA	12:Y:221:THR:HG22	2.01	0.42
12:Y:282:MET:HE3	12:Y:295:TYR:CD1	2.53	0.42
12:Y:387:ILE:HG23	13:Z:275:LEU:HD23	2.00	0.42
13:Z:96:HIS:NE2	13:Z:123:ILE:HG12	2.34	0.42
13:Z:212:LEU:CD1	14:a:346:ILE:HD12	2.49	0.42
14:a:28:LEU:CB	14:a:33:LEU:HD11	2.38	0.42
14:a:74:LEU:CA	14:a:77:VAL:HG12	2.48	0.42
14:a:97:LEU:HD12	14:a:98:GLU:OE1	2.18	0.42
14:a:112:ILE:HD13	14:a:138:VAL:CG1	2.48	0.42
14:a:119:GLY:O	14:a:123:LEU:HB3	2.19	0.42
16:c:179:SER:O	16:c:179:SER:OG	2.26	0.42
17:d:128:PHE:HE1	17:d:148:LEU:HD11	1.84	0.42
17:d:283:LEU:HB2	17:d:315:TYR:CE1	2.53	0.42
18:f:114:ALA:C	18:f:116:GLY:N	2.77	0.42
18:f:135:GLY:O	18:f:136:GLU:C	2.62	0.42
18:f:385:PHE:CE2	18:f:772:GLY:HA2	2.53	0.42
18:f:586:PRO:HG3	18:f:645:ASP:OD1	2.18	0.42
18:f:679:LEU:CG	18:f:690:VAL:HG11	2.42	0.42
19:g:118:GLU:HG3	19:g:119:THR:N	2.34	0.42
20:u:119:ILE:C	20:u:119:ILE:HD12	2.44	0.42
20:u:182:PHE:CD2	20:u:194:VAL:HG21	2.54	0.42
22:A:87:LEU:HD12	22:A:87:LEU:O	2.19	0.42
22:A:96:ALA:CB	22:A:114:ASN:O	2.67	0.42
22:A:286:ASP:CG	25:F:293:THR:HG22	2.44	0.42
23:B:307:ARG:CZ	23:B:307:ARG:HB2	2.47	0.42
25:F:321:GLN:O	25:F:324:THR:HG22	2.19	0.42
25:F:407:ALA:CB	25:F:415:LEU:HD22	2.49	0.42
27:U:71:LEU:O	27:U:71:LEU:HD23	2.18	0.42
27:U:117:ASP:C	27:U:118:LEU:HD22	2.43	0.42
27:U:141:CYS:SG	27:U:150:ALA:HB1	2.59	0.42
27:U:164:GLU:O	27:U:168:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:387:ARG:HH22	27:U:426:TYR:HD1	1.65	0.42
1:C:73:VAL:HG23	1:C:127:LEU:HD23	2.01	0.42
1:C:226:GLU:OE2	1:C:226:GLU:HA	2.19	0.42
1:C:251:ILE:HG22	1:C:295:THR:HB	2.01	0.42
1:C:273:MET:HE1	1:C:274:LEU:HD23	2.01	0.42
1:C:315:ILE:CG2	1:C:317:PHE:HE1	2.32	0.42
1:C:336:MET:CE	1:C:378:VAL:HG21	2.45	0.42
2:D:377:SER:HA	24:E:292:PRO:HG3	2.02	0.42
3:G:57:PRO:O	3:G:58:ASP:HB2	2.19	0.42
4:H:44:VAL:HB	4:H:137:CYS:HB2	2.01	0.42
5:I:99:LEU:HD23	5:I:100:GLN:N	2.34	0.42
5:I:232:GLU:HA	5:I:235:GLN:HG3	2.01	0.42
6:J:35:VAL:HG22	6:J:191:VAL:HG23	2.01	0.42
8:M:175:GLU:HB3	8:M:196:ILE:HD13	2.01	0.42
9:V:165:ALA:HB1	9:V:191:LEU:HD11	2.01	0.42
9:V:236:ARG:HD3	9:V:240:LEU:HD21	2.02	0.42
9:V:303:SER:HA	9:V:339:LEU:HD21	2.01	0.42
10:W:24:VAL:O	10:W:28:LEU:HG	2.19	0.42
10:W:40:LEU:O	10:W:42:GLU:N	2.53	0.42
10:W:214:PHE:HB3	10:W:223:LYS:CG	2.49	0.42
11:X:239:TYR:O	11:X:242:ILE:HG12	2.20	0.42
11:X:362:GLU:OE1	11:X:380:GLN:NE2	2.49	0.42
12:Y:43:ALA:HA	12:Y:46:ARG:HH11	1.83	0.42
13:Z:44:GLN:O	13:Z:45:LYS:C	2.63	0.42
13:Z:111:LEU:O	13:Z:114:ARG:HB3	2.19	0.42
13:Z:172:VAL:HG11	16:c:220:LEU:CD1	2.48	0.42
13:Z:205:LEU:HD21	14:a:356:TRP:CZ3	2.54	0.42
14:a:41:VAL:CG1	14:a:79:ILE:CD1	2.97	0.42
15:b:25:ARG:NH1	15:b:145:GLU:H	2.09	0.42
15:b:33:VAL:CG1	15:b:75:LEU:CD1	2.94	0.42
15:b:121:GLU:OE2	15:b:152:LYS:HB3	2.18	0.42
16:c:142:ALA:O	16:c:160:PHE:N	2.49	0.42
16:c:200:TYR:O	16:c:200:TYR:CD1	2.72	0.42
16:c:292:MET:SD	17:d:346:LEU:CD2	3.07	0.42
17:d:146:ASP:HA	17:d:149:GLU:HB3	1.99	0.42
18:f:51:GLN:HB3	18:f:55:GLU:OE2	2.18	0.42
18:f:405:HIS:NE2	18:f:813:LYS:HB3	2.33	0.42
18:f:672:LEU:HD22	18:f:694:LEU:CD2	2.49	0.42
19:g:94:LYS:C	19:g:95:LYS:HG2	2.44	0.42
19:g:161:SER:HB3	19:g:164:ASP:CB	2.49	0.42
22:A:223:THR:O	22:A:223:THR:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:395:PHE:HE2	22:A:411:GLU:HG2	1.84	0.42
23:B:137:SER:HA	23:B:141:LYS:NZ	2.34	0.42
25:F:180:ARG:HB2	25:F:242:ALA:HB2	2.01	0.42
26:K:24:VAL:HA	26:K:136:PRO:HG3	2.01	0.42
26:K:91:LYS:CE	26:K:95:GLU:HG3	2.49	0.42
26:K:196:LYS:NZ	26:K:196:LYS:HB3	2.34	0.42
27:U:112:CYS:HB3	27:U:158:ARG:HG2	2.02	0.42
27:U:580:ARG:HG3	27:U:614:VAL:HA	2.00	0.42
27:U:622:LEU:O	27:U:625:ILE:HG12	2.19	0.42
27:U:803:LYS:HG3	27:U:893:THR:CB	2.19	0.42
27:U:803:LYS:HB2	27:U:875:PHE:CD1	2.51	0.42
1:C:170:LYS:HE2	1:C:208:ASP:CG	2.44	0.42
1:C:314:LYS:NZ	23:B:428:TYR:O	2.49	0.42
1:C:375:ARG:NH2	1:C:382:ASP:OD2	2.52	0.42
2:D:53:PHE:HZ	27:U:636:VAL:HB	1.83	0.42
2:D:339:ARG:NH2	11:X:231:TYR:OH	2.52	0.42
6:J:79:ASP:O	6:J:82:ILE:HG22	2.19	0.42
6:J:146:GLN:HG2	6:J:147:THR:O	2.19	0.42
7:L:19:ILE:HD13	8:M:129:ARG:NE	2.34	0.42
7:L:134:ILE:HB	7:L:145:PHE:HB2	2.00	0.42
9:V:65:ARG:HA	9:V:68:ASP:CB	2.49	0.42
9:V:216:ARG:HA	9:V:219:GLU:HB3	2.02	0.42
9:V:455:LYS:HG3	9:V:457:TYR:HD2	1.84	0.42
9:V:472:PRO:HA	12:Y:366:TYR:OH	2.19	0.42
10:W:115:ILE:HG13	10:W:124:LEU:CD2	2.50	0.42
10:W:206:SER:O	10:W:209:ILE:HG23	2.18	0.42
10:W:248:ARG:HG2	10:W:270:VAL:CG2	2.48	0.42
11:X:183:LEU:HD21	11:X:220:ALA:C	2.45	0.42
11:X:194:ARG:HH11	11:X:194:ARG:CG	2.31	0.42
11:X:217:ILE:N	11:X:217:ILE:HD13	2.33	0.42
11:X:326:LEU:O	11:X:329:ASN:N	2.51	0.42
12:Y:70:LEU:HG	12:Y:74:LYS:HD2	2.01	0.42
12:Y:165:LYS:NZ	12:Y:165:LYS:HB2	2.33	0.42
12:Y:260:LEU:HD12	12:Y:260:LEU:O	2.20	0.42
12:Y:338:ILE:HD12	12:Y:347:ILE:HG13	2.01	0.42
13:Z:272:LEU:HD23	13:Z:272:LEU:HA	1.80	0.42
14:a:45:VAL:CG2	14:a:79:ILE:HD11	2.45	0.42
14:a:74:LEU:O	14:a:78:GLU:CB	2.66	0.42
14:a:112:ILE:HG23	14:a:113:LEU:N	2.34	0.42
14:a:116:THR:CG2	14:a:154:ARG:CB	2.96	0.42
14:a:123:LEU:HD21	14:a:161:LYS:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:a:231:GLN:HG2	14:a:234:ILE:HG22	2.00	0.42
16:c:177:THR:CG2	27:U:774:PRO:HD3	2.49	0.42
16:c:259:VAL:O	16:c:262:GLU:N	2.53	0.42
17:d:172:LYS:HE3	17:d:195:ASN:HD22	1.81	0.42
18:f:123:ALA:O	18:f:127:SER:HB3	2.19	0.42
18:f:180:GLN:O	18:f:184:LEU:HG	2.19	0.42
18:f:203:GLU:HA	18:f:206:ASP:HB2	2.01	0.42
18:f:307:LEU:HD11	18:f:311:VAL:CB	2.49	0.42
18:f:327:ASN:HB2	18:f:420:TRP:O	2.18	0.42
18:f:407:MET:HB3	18:f:440:ILE:HG22	2.01	0.42
18:f:574:GLU:O	18:f:577:LEU:HG	2.19	0.42
18:f:655:LEU:HD12	18:f:693:ALA:HA	2.00	0.42
18:f:764:LEU:HD11	18:f:818:LEU:HD23	2.01	0.42
18:f:783:SER:O	18:f:786:GLN:HB2	2.19	0.42
18:f:872:VAL:HG12	18:f:873:LEU:H	1.84	0.42
22:A:271:LEU:O	22:A:272:ILE:HD13	2.18	0.42
23:B:251:VAL:C	23:B:253:SER:H	2.27	0.42
24:E:169:GLY:HA3	24:E:295:LEU:HD23	2.00	0.42
24:E:323:HIS:CE1	24:E:360:ASP:HB2	2.54	0.42
25:F:224:LEU:HD21	25:F:338:LEU:HD12	2.00	0.42
27:U:16:GLU:HB2	27:U:19:LEU:HB3	2.01	0.42
27:U:82:LEU:HD11	27:U:129:ARG:C	2.45	0.42
27:U:98:GLU:HA	27:U:101:ILE:HG12	2.02	0.42
27:U:134:VAL:HG12	27:U:138:PHE:CD2	2.55	0.42
27:U:181:LEU:CD1	27:U:219:CYS:SG	3.07	0.42
27:U:423:MET:HA	27:U:423:MET:CE	2.45	0.42
27:U:461:LEU:HD23	27:U:461:LEU:HA	1.64	0.42
27:U:563:ALA:O	27:U:565:ALA:N	2.52	0.42
27:U:719:ASP:O	27:U:727:LYS:HE2	2.19	0.42
1:C:142:LYS:HE3	1:C:142:LYS:HB3	1.63	0.42
1:C:251:ILE:CG2	1:C:301:LEU:HD11	2.49	0.42
1:C:262:GLY:CA	23:B:295:TYR:CD2	3.02	0.42
1:C:328:ILE:HG22	1:C:359:VAL:HG11	2.01	0.42
2:D:58:GLU:HA	2:D:61:ILE:CG2	2.49	0.42
2:D:205:TYR:CD1	2:D:205:TYR:C	2.97	0.42
4:H:29:VAL:CG2	4:H:133:SER:H	2.32	0.42
5:I:118:LYS:HD2	5:I:151:ASP:O	2.18	0.42
6:J:9:VAL:HA	26:K:23:GLN:HE21	1.84	0.42
6:J:20:GLU:HB3	22:A:428:ARG:HE	1.85	0.42
7:L:204:ASP:HA	7:L:239:ARG:NH2	2.34	0.42
8:M:25:TYR:CA	8:M:28:LYS:HG2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M:175:GLU:C	8:M:196:ILE:HD11	2.44	0.42
9:V:111:TYR:CD1	9:V:138:PRO:HG3	2.54	0.42
9:V:361:PHE:CD1	9:V:361:PHE:C	2.97	0.42
9:V:404:LYS:HZ3	9:V:404:LYS:HB3	1.83	0.42
9:V:455:LYS:CG	9:V:457:TYR:HD2	2.32	0.42
9:V:470:ARG:HH12	9:V:474:LEU:CD1	2.31	0.42
10:W:41:GLN:OE1	10:W:41:GLN:N	2.52	0.42
10:W:320:LEU:HD23	10:W:320:LEU:C	2.44	0.42
11:X:71:LYS:O	11:X:74:ARG:HB2	2.20	0.42
11:X:140:THR:O	11:X:141:LYS:HB2	2.19	0.42
11:X:171:LEU:CD2	11:X:209:THR:HG22	2.48	0.42
11:X:363:ARG:HH22	12:Y:266:CYS:HB3	1.83	0.42
12:Y:145:LEU:HD21	12:Y:160:ASN:HB2	1.99	0.42
13:Z:177:ARG:HG2	13:Z:177:ARG:NH1	2.35	0.42
14:a:76:LEU:HD12	14:a:80:ILE:CG2	2.49	0.42
14:a:155:PHE:CD1	14:a:155:PHE:C	2.97	0.42
15:b:52:ILE:HD12	15:b:60:VAL:HA	2.02	0.42
15:b:60:VAL:O	15:b:61:LEU:C	2.62	0.42
17:d:124:LEU:HD12	27:U:18:GLN:OE1	2.20	0.42
17:d:129:LEU:CB	17:d:130:PRO:CD	2.98	0.42
18:f:115:PRO:HA	18:f:119:LYS:CB	2.49	0.42
18:f:143:ARG:CZ	18:f:148:GLN:O	2.68	0.42
18:f:160:ARG:CB	18:f:160:ARG:HH11	2.32	0.42
18:f:173:LEU:HD11	18:f:177:GLU:O	2.18	0.42
18:f:419:LEU:CD2	18:f:822:VAL:HG13	2.49	0.42
18:f:433:LEU:O	18:f:441:LYS:HG2	2.20	0.42
18:f:517:VAL:CG2	18:f:557:TRP:HZ3	2.32	0.42
18:f:517:VAL:HG23	18:f:557:TRP:HZ3	1.85	0.42
18:f:560:LEU:O	18:f:560:LEU:HD23	2.20	0.42
18:f:845:ARG:HB2	18:f:845:ARG:HH11	1.85	0.42
22:A:95:VAL:HG11	22:A:139:ARG:HD2	2.02	0.42
22:A:139:ARG:NH1	22:A:156:LYS:HG3	2.34	0.42
22:A:271:LEU:HD23	22:A:316:LYS:HB2	2.02	0.42
23:B:165:ASP:OD1	23:B:165:ASP:C	2.62	0.42
24:E:57:VAL:HB	25:F:131:THR:OG1	2.19	0.42
24:E:294:ARG:O	24:E:295:LEU:CB	2.67	0.42
24:E:361:PHE:HZ	24:E:364:GLN:HA	1.84	0.42
25:F:218:GLN:HE21	25:F:218:GLN:HB3	1.62	0.42
25:F:232:GLY:HA3	29:F:501:ATP:C8	2.55	0.42
25:F:370:SER:HB3	25:F:400:CYS:SG	2.59	0.42
27:U:221:ILE:HD13	27:U:260:PHE:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:351:MET:HE1	27:U:354:LYS:CD	2.48	0.42
27:U:422:LEU:C	27:U:422:LEU:HD23	2.44	0.42
27:U:553:ALA:HA	27:U:585:THR:OG1	2.19	0.42
1:C:150:MET:HA	1:C:331:ILE:HG21	2.01	0.42
1:C:273:MET:SD	1:C:277:LEU:HG	2.59	0.42
2:D:167:ILE:CG1	2:D:174:LYS:HD2	2.48	0.42
3:G:32:ILE:HD11	3:G:156:PRO:CD	2.50	0.42
3:G:76:ILE:HG21	3:G:140:LEU:HD22	2.01	0.42
5:I:186:LEU:HD12	5:I:186:LEU:HA	1.73	0.42
5:I:237:ILE:HG12	5:I:237:ILE:H	1.66	0.42
8:M:40:ARG:HG3	8:M:40:ARG:O	2.20	0.42
9:V:92:ARG:HA	9:V:95:LEU:HD12	2.01	0.42
9:V:178:SER:HB3	9:V:180:ARG:NH1	2.34	0.42
9:V:255:LEU:CD2	9:V:270:LEU:HD23	2.50	0.42
10:W:289:ARG:CZ	10:W:289:ARG:CB	2.97	0.42
11:X:192:SER:O	11:X:195:THR:HG22	2.18	0.42
11:X:420:LYS:O	11:X:421:LEU:HB2	2.18	0.42
14:a:12:GLN:HE21	14:a:18:GLN:HB2	1.83	0.42
14:a:157:ASP:C	14:a:160:SER:HG	2.18	0.42
15:b:161:ASN:ND2	15:b:168:SER:H	2.11	0.42
16:c:51:MET:O	16:c:116:PRO:HG3	2.20	0.42
18:f:319:GLU:HB2	18:f:324:VAL:CG2	2.49	0.42
18:f:573:ILE:O	18:f:573:ILE:CG2	2.67	0.42
18:f:590:PHE:CZ	18:f:652:VAL:HG11	2.55	0.42
18:f:745:LEU:HB3	18:f:766:GLN:HG2	2.01	0.42
19:g:125:ASN:C	19:g:161:SER:HB2	2.45	0.42
20:u:126:LEU:HD22	20:u:175:VAL:HG21	2.02	0.42
22:A:151:ILE:HG12	22:A:152:PRO:O	2.19	0.42
22:A:222:LYS:HE2	29:A:501:ATP:O2B	2.19	0.42
23:B:41:LYS:HE3	23:B:41:LYS:HB3	1.91	0.42
23:B:295:TYR:CD1	23:B:295:TYR:C	2.98	0.42
23:B:355:LEU:CD1	23:B:389:ASP:HB3	2.49	0.42
23:B:409:GLU:HB3	23:B:411:ARG:NH1	2.35	0.42
25:F:231:THR:N	29:F:501:ATP:O1B	2.52	0.42
26:K:12:VAL:HG11	26:K:136:PRO:HD3	2.00	0.42
26:K:21:LEU:HD23	26:K:21:LEU:HA	1.85	0.42
27:U:188:MET:HB3	27:U:194:ARG:NH2	2.35	0.42
27:U:242:LEU:HD21	27:U:321:GLN:CD	2.45	0.42
27:U:363:SER:OG	27:U:724:VAL:HG22	2.20	0.42
27:U:641:SER:HB3	27:U:652:ALA:HB1	2.01	0.42
27:U:792:ASN:HD21	27:U:796:LYS:HG2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:322:GLU:HA	1:C:325:ARG:NH2	2.34	0.42
2:D:203:LEU:HD22	2:D:322:LEU:CD2	2.49	0.42
2:D:252:ARG:HG2	2:D:252:ARG:NH1	2.34	0.42
2:D:291:GLU:OE1	2:D:291:GLU:CA	2.67	0.42
2:D:321:LEU:HG	2:D:321:LEU:O	2.19	0.42
3:G:41:ALA:HB2	3:G:50:ILE:HG22	2.02	0.42
3:G:69:LEU:HD12	3:G:79:VAL:CG2	2.35	0.42
4:H:59:GLU:HG2	4:H:206:ASP:HB3	2.01	0.42
4:H:228:ASP:N	4:H:228:ASP:OD1	2.53	0.42
6:J:66:ASP:HB3	6:J:69:VAL:HG22	2.01	0.42
6:J:95:ARG:HH12	6:J:101:PRO:HB3	1.82	0.42
6:J:104:VAL:HG21	6:J:135:GLY:CA	2.49	0.42
7:L:88:MET:HE3	7:L:134:ILE:HD11	2.01	0.42
7:L:120:THR:O	7:L:120:THR:HG23	2.20	0.42
7:L:205:LEU:HB3	7:L:210:VAL:HG21	2.02	0.42
9:V:109:ASN:O	9:V:112:VAL:HG23	2.19	0.42
9:V:348:PHE:CD2	9:V:361:PHE:CD2	3.07	0.42
9:V:482:PHE:CD1	12:Y:377:LEU:HD22	2.55	0.42
10:W:83:LEU:HD11	10:W:87:ILE:HD11	2.01	0.42
11:X:334:ASN:HB3	11:X:354:ILE:HD11	2.01	0.42
12:Y:387:ILE:HG23	13:Z:275:LEU:CD2	2.49	0.42
17:d:90:ALA:O	17:d:94:MET:CG	2.68	0.42
18:f:391:LEU:HG	18:f:414:LEU:CG	2.44	0.42
18:f:419:LEU:HD21	18:f:822:VAL:HG13	2.02	0.42
18:f:513:GLU:HA	18:f:554:TYR:CD2	2.48	0.42
18:f:679:LEU:HD12	18:f:713:PHE:CE2	2.55	0.42
18:f:797:LEU:HA	18:f:797:LEU:HD12	1.69	0.42
18:f:828:ARG:HD2	18:f:874:LEU:HB2	2.00	0.42
19:g:107:ILE:HB	19:g:111:GLU:CB	2.49	0.42
20:u:165:LEU:HD12	20:u:166:LEU:N	2.34	0.42
20:u:218:LEU:HG	20:u:220:LEU:HD22	2.00	0.42
22:A:44:GLN:O	22:A:47:GLN:HB3	2.19	0.42
22:A:113:ILE:HG23	22:A:123:VAL:HG22	2.01	0.42
22:A:413:VAL:O	22:A:418:LYS:HG2	2.19	0.42
23:B:133:VAL:HG11	23:B:157:HIS:HB3	2.01	0.42
23:B:197:ILE:HD11	23:B:328:ILE:HD13	2.02	0.42
23:B:278:ALA:O	23:B:279:PRO:C	2.63	0.42
26:K:50:VAL:HG11	26:K:66:LYS:CB	2.44	0.42
27:U:153:ILE:O	27:U:157:THR:HG22	2.20	0.42
27:U:333:MET:HE2	27:U:333:MET:HB2	1.79	0.42
27:U:366:HIS:O	27:U:370:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:390:LEU:O	27:U:390:LEU:HD23	2.19	0.42
27:U:465:LEU:CD2	27:U:500:ASN:HD21	2.29	0.42
27:U:483:LEU:HD12	27:U:483:LEU:HA	1.85	0.42
1:C:73:VAL:O	1:C:73:VAL:CG1	2.67	0.42
1:C:187:LEU:HD22	1:C:306:LEU:CD2	2.48	0.42
1:C:292:ILE:O	1:C:293:MET:C	2.62	0.42
1:C:340:ARG:HH12	12:Y:176:ARG:NH1	2.16	0.42
2:D:309:MET:CE	2:D:327:LEU:HD21	2.42	0.42
3:G:179:LEU:O	3:G:183:VAL:HG12	2.20	0.42
5:I:101:TYR:CD1	5:I:101:TYR:N	2.88	0.42
6:J:23:GLN:NE2	6:J:150:SER:HB3	2.26	0.42
8:M:67:PHE:N	8:M:67:PHE:CD1	2.87	0.42
8:M:185:THR:HG23	8:M:185:THR:O	2.19	0.42
9:V:169:LEU:HD12	9:V:172:VAL:HB	2.01	0.42
9:V:410:ILE:HD13	9:V:410:ILE:HA	1.81	0.42
9:V:451:ILE:O	17:d:279:TYR:HA	2.19	0.42
10:W:149:LEU:HD12	10:W:149:LEU:O	2.19	0.42
10:W:347:GLY:HA2	10:W:350:ARG:HH11	1.84	0.42
10:W:369:TYR:CD2	14:a:312:MET:SD	3.11	0.42
11:X:86:ALA:O	11:X:89:VAL:HG12	2.20	0.42
11:X:110:CYS:O	11:X:114:ILE:HG12	2.19	0.42
11:X:133:LEU:HD11	11:X:137:TYR:CE1	2.54	0.42
11:X:254:MET:HE3	11:X:254:MET:HB3	1.76	0.42
12:Y:220:VAL:CG2	12:Y:249:VAL:HG11	2.48	0.42
13:Z:39:LEU:HD23	13:Z:53:SER:HB2	2.01	0.42
14:a:40:GLN:O	14:a:44:PHE:HB2	2.20	0.42
14:a:61:GLU:O	14:a:65:SER:CB	2.68	0.42
14:a:129:GLN:HG3	14:a:130:VAL:HG12	2.02	0.42
14:a:313:LYS:O	14:a:314:ALA:C	2.62	0.42
15:b:7:MET:HB2	15:b:97:LEU:HD13	2.01	0.42
15:b:128:ALA:HB1	15:b:159:THR:HG23	2.01	0.42
17:d:200:LEU:HD13	17:d:208:PHE:CD2	2.55	0.42
17:d:275:ILE:CD1	17:d:290:ILE:HG22	2.50	0.42
18:f:107:LYS:O	18:f:107:LYS:HD3	2.19	0.42
18:f:138:GLU:HG3	18:f:141:LYS:CE	2.49	0.42
18:f:203:GLU:O	18:f:207:LEU:N	2.47	0.42
18:f:344:VAL:CG1	18:f:345:PRO:HD2	2.49	0.42
18:f:737:ASN:OD1	18:f:737:ASN:N	2.53	0.42
19:g:161:SER:O	19:g:165:ALA:HB3	2.20	0.42
20:u:125:ASP:HA	20:u:266:ILE:HD13	2.01	0.42
22:A:147:TYR:N	22:A:147:TYR:CD1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:214:LEU:HD12	22:A:214:LEU:N	2.33	0.42
22:A:394:MET:SD	23:B:211:TYR:HE2	2.43	0.42
23:B:365:PHE:CE2	23:B:395:ILE:HD12	2.54	0.42
24:E:90:SER:O	24:E:93:LYS:HG3	2.20	0.42
25:F:154:ASN:HB3	25:F:157:SER:OG	2.20	0.42
25:F:201:ALA:HB2	25:F:350:ARG:NH1	2.35	0.42
26:K:65:GLU:O	26:K:78:MET:SD	2.78	0.42
27:U:45:ILE:HD13	27:U:45:ILE:N	2.33	0.42
27:U:422:LEU:CD2	27:U:426:TYR:HE2	2.32	0.42
27:U:556:MET:O	27:U:589:ALA:HA	2.19	0.42
27:U:899:ARG:HG2	27:U:917:THR:OG1	2.20	0.42
27:U:903:PHE:CD1	27:U:915:LYS:HE3	2.55	0.42
1:C:127:LEU:HD12	1:C:127:LEU:HA	1.87	0.42
1:C:163:GLU:HB3	23:B:404:LEU:CD1	2.50	0.42
2:D:45:LYS:CA	2:D:45:LYS:HE2	2.50	0.42
2:D:58:GLU:HA	2:D:61:ILE:HG22	2.01	0.42
2:D:239:TYR:HA	21:v:15:UNK:O	2.20	0.42
2:D:261:ILE:HA	2:D:306:LYS:O	2.20	0.42
2:D:274:ARG:HA	2:D:286:GLN:OE1	2.20	0.42
3:G:7:ALA:O	3:G:10:ASP:HB2	2.20	0.42
3:G:73:THR:HB	3:G:76:ILE:HD12	2.01	0.42
3:G:143:ILE:HD11	3:G:220:VAL:HG22	2.02	0.42
3:G:174:GLU:H	3:G:174:GLU:CD	2.23	0.42
3:G:232:GLU:CD	3:G:232:GLU:N	2.72	0.42
6:J:116:GLN:HE22	26:K:87:THR:HG1	1.57	0.42
6:J:145:TYR:CD1	6:J:155:ALA:HB2	2.54	0.42
8:M:23:VAL:CG1	8:M:154:SER:HB3	2.49	0.42
8:M:25:TYR:C	8:M:28:LYS:HG2	2.44	0.42
8:M:30:VAL:HG13	8:M:78:ALA:O	2.19	0.42
8:M:66:LEU:HD12	8:M:75:MET:O	2.20	0.42
8:M:67:PHE:CZ	8:M:85:ARG:HD2	2.55	0.42
9:V:65:ARG:O	9:V:69:THR:N	2.35	0.42
9:V:225:ASP:OD1	9:V:225:ASP:N	2.53	0.42
9:V:241:ARG:NH1	9:V:241:ARG:HB2	2.35	0.42
9:V:389:ASP:OD1	9:V:389:ASP:N	2.53	0.42
9:V:464:ILE:HG22	9:V:465:ASP:H	1.85	0.42
10:W:55:ARG:HH12	10:W:93:ARG:CD	2.32	0.42
11:X:76:PHE:CZ	11:X:80:ILE:HG21	2.55	0.42
11:X:87:ARG:O	11:X:91:SER:OG	2.22	0.42
11:X:153:LEU:HD23	11:X:153:LEU:HA	1.86	0.42
11:X:385:LEU:CD2	11:X:387:ILE:HD11	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Y:48:ASN:CB	12:Y:50:MET:HE2	2.44	0.42
12:Y:205:VAL:HG21	12:Y:246:ILE:HG12	2.02	0.42
13:Z:174:HIS:O	13:Z:177:ARG:HB2	2.20	0.42
14:a:112:ILE:HA	14:a:115:LYS:CG	2.47	0.42
14:a:135:ILE:HD11	14:a:158:LEU:CD2	2.49	0.42
14:a:313:LYS:HE2	14:a:317:VAL:HG23	2.00	0.42
15:b:26:LEU:HD21	15:b:80:PRO:CD	2.49	0.42
16:c:163:ILE:HD11	16:c:172:HIS:HA	2.01	0.42
16:c:199:HIS:CD2	16:c:199:HIS:N	2.88	0.42
18:f:282:PHE:CE1	18:f:307:LEU:HD13	2.55	0.42
18:f:441:LYS:CD	18:f:469:TYR:HE2	2.31	0.42
18:f:463:LEU:HD23	18:f:463:LEU:O	2.19	0.42
18:f:650:GLN:O	18:f:653:ALA:N	2.53	0.42
18:f:821:LEU:HD23	18:f:821:LEU:N	2.34	0.42
18:f:833:PHE:HA	18:f:839:PRO:HA	2.02	0.42
19:g:108:THR:HG22	19:g:109:GLY:H	1.84	0.42
20:u:126:LEU:HD13	20:u:175:VAL:HG11	2.01	0.42
22:A:168:GLU:OE1	22:A:168:GLU:HA	2.20	0.42
22:A:176:ASP:O	22:A:176:ASP:OD1	2.38	0.42
22:A:333:ARG:HH11	25:F:394:ALA:HB1	1.84	0.42
22:A:372:LEU:HD13	22:A:372:LEU:C	2.45	0.42
22:A:376:LEU:O	22:A:418:LYS:HE2	2.19	0.42
23:B:221:GLY:O	23:B:348:ASP:N	2.52	0.42
25:F:201:ALA:O	25:F:205:PRO:HG2	2.19	0.42
25:F:254:PRO:HA	25:F:290:ALA:CB	2.49	0.42
25:F:370:SER:HA	25:F:373:MET:HE3	2.00	0.42
26:K:81:LEU:HD12	26:K:81:LEU:H	1.84	0.42
26:K:90:ASP:OD1	26:K:90:ASP:O	2.37	0.42
26:K:109:VAL:HG22	26:K:154:PHE:HD2	1.82	0.42
26:K:146:VAL:HG11	26:K:222:PRO:HG3	2.01	0.42
27:U:419:ALA:HB3	27:U:450:HIS:CE1	2.55	0.42
27:U:637:VAL:HG11	27:U:652:ALA:HA	2.02	0.42
1:C:23:TYR:CD1	1:C:24:TYR:CD1	3.08	0.42
1:C:23:TYR:CE1	27:U:105:ILE:HD12	2.55	0.42
2:D:41:TYR:CG	27:U:152:GLY:HA3	2.55	0.42
2:D:387:VAL:HG13	24:E:158:LEU:HD21	2.00	0.42
2:D:391:ARG:NH2	2:D:395:LEU:HB2	2.34	0.42
4:H:176:LYS:HZ2	4:H:176:LYS:HG2	1.64	0.42
7:L:155:ASP:HB2	8:M:62:SER:HB2	2.00	0.42
7:L:230:SER:HA	7:L:233:LEU:HB2	2.01	0.42
9:V:93:PHE:HD1	9:V:96:ARG:HH21	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:119:GLY:HA3	9:V:147:PHE:O	2.20	0.42
9:V:192:MET:HG2	9:V:192:MET:H	1.64	0.42
9:V:244:ALA:CB	9:V:279:GLN:HE21	2.29	0.42
10:W:60:MET:N	10:W:60:MET:SD	2.93	0.42
10:W:287:VAL:HA	10:W:290:ILE:CG2	2.45	0.42
11:X:66:LEU:HD12	11:X:69:LEU:HD23	2.00	0.42
11:X:178:HIS:HD2	11:X:183:LEU:CD1	2.32	0.42
12:Y:205:VAL:HG21	12:Y:246:ILE:CG1	2.49	0.42
12:Y:228:MET:CE	12:Y:259:TYR:CZ	3.01	0.42
13:Z:149:THR:CG2	13:Z:150:PRO:HD2	2.42	0.42
13:Z:176:LEU:C	13:Z:178:ASP:N	2.77	0.42
14:a:77:VAL:HA	14:a:80:ILE:CD1	2.50	0.42
14:a:217:LEU:O	14:a:223:GLU:HG2	2.20	0.42
15:b:76:HIS:O	15:b:77:THR:C	2.63	0.42
16:c:31:VAL:HG21	16:c:141:VAL:HG11	2.02	0.42
16:c:259:VAL:O	16:c:262:GLU:HB2	2.20	0.42
16:c:285:GLU:O	16:c:288:VAL:N	2.53	0.42
17:d:136:LEU:HB2	17:d:141:LEU:HD21	2.01	0.42
17:d:293:PHE:CD1	17:d:298:LYS:HE3	2.46	0.42
18:f:170:TRP:CD2	18:f:211:ILE:HG23	2.54	0.42
18:f:231:LEU:HD21	18:f:853:VAL:HG22	2.02	0.42
18:f:298:LEU:HD23	18:f:298:LEU:HA	1.73	0.42
18:f:513:GLU:HB2	18:f:554:TYR:HE2	1.78	0.42
18:f:723:TYR:O	18:f:761:MET:CE	2.68	0.42
23:B:52:VAL:HG23	23:B:64:LYS:HB2	2.00	0.42
24:E:40:TYR:HE1	25:F:76:ASN:HB3	1.85	0.42
24:E:374:VAL:C	24:E:378:LYS:HB2	2.44	0.42
25:F:74:LYS:NZ	25:F:78:GLU:HG3	2.34	0.42
25:F:151:VAL:HB	25:F:160:ILE:CG2	2.50	0.42
27:U:177:LEU:HD12	27:U:204:ILE:CD1	2.34	0.42
27:U:247:GLN:HG3	27:U:904:LYS:CB	2.50	0.42
27:U:658:ILE:HG12	27:U:763:VAL:HG11	2.01	0.42
27:U:802:TYR:OH	27:U:882:ALA:HB3	2.19	0.42
27:U:844:LYS:O	27:U:847:GLU:HB2	2.20	0.42
27:U:873:PRO:HB2	27:U:876:GLN:CD	2.45	0.42
1:C:78:ARG:NH1	23:B:165:ASP:O	2.52	0.42
1:C:338:LEU:HD13	1:C:342:ILE:HG21	2.02	0.42
1:C:370:ALA:CB	1:C:375:ARG:HH21	2.32	0.42
3:G:73:THR:CG2	3:G:74:GLU:H	2.33	0.42
3:G:243:ALA:O	10:W:92:LYS:CE	2.67	0.42
4:H:26:LEU:HD23	4:H:26:LEU:HA	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:82:ASP:HA	5:I:85:VAL:CG1	2.50	0.42
6:J:158:ALA:HB3	26:K:58:LEU:CD2	2.26	0.42
6:J:184:ASP:O	6:J:188:ILE:HD12	2.19	0.42
7:L:35:THR:N	7:L:161:ILE:O	2.36	0.42
7:L:67:ASP:N	7:L:70:ILE:O	2.51	0.42
9:V:81:GLN:O	9:V:84:LYS:HB3	2.19	0.42
10:W:263:TRP:CE2	10:W:264:GLN:HG3	2.54	0.42
12:Y:11:LEU:HG	12:Y:212:GLU:OE1	2.20	0.42
12:Y:55:GLU:H	12:Y:55:GLU:HG2	1.64	0.42
13:Z:225:GLN:C	13:Z:227:ILE:H	2.27	0.42
14:a:159:SER:CB	14:a:168:ASN:HD21	2.29	0.42
14:a:320:VAL:HG12	14:a:322:GLY:H	1.83	0.42
16:c:25:VAL:HG13	16:c:29:GLU:OE1	2.20	0.42
17:d:163:SER:HA	17:d:166:ARG:CG	2.49	0.42
17:d:282:ILE:O	17:d:315:TYR:HA	2.20	0.42
18:f:250:ARG:HG2	18:f:250:ARG:H	1.57	0.42
18:f:407:MET:HB3	18:f:407:MET:HE3	1.82	0.42
18:f:483:PHE:HB2	18:f:517:VAL:CG1	2.48	0.42
18:f:505:MET:HE1	18:f:519:ALA:HA	2.02	0.42
18:f:596:ASP:OD1	18:f:608:LYS:HE3	2.20	0.42
19:g:107:ILE:HG13	19:g:115:LYS:HZ3	1.81	0.42
22:A:103:ASN:O	22:A:104:ALA:C	2.63	0.42
22:A:381:THR:O	22:A:385:ILE:HG12	2.20	0.42
23:B:165:ASP:OD1	23:B:165:ASP:O	2.37	0.42
23:B:249:ARG:HG2	23:B:249:ARG:HH11	1.85	0.42
24:E:171:LEU:CD1	24:E:279:THR:HG22	2.37	0.42
26:K:83:LYS:HE3	26:K:83:LYS:HB2	1.89	0.42
27:U:11:LEU:HB2	27:U:23:ALA:HB2	2.02	0.42
27:U:422:LEU:HG	27:U:426:TYR:OH	2.20	0.42
27:U:790:GLY:H	27:U:880:ASN:HB3	1.85	0.42
1:C:213:ARG:HG2	1:C:213:ARG:HH11	1.84	0.41
1:C:400:SER:CB	4:H:26:LEU:HD22	2.44	0.41
2:D:151:ILE:HG21	2:D:250:VAL:HG22	2.02	0.41
3:G:178:PHE:CD2	3:G:201:CYS:HA	2.55	0.41
4:H:101:TYR:CD1	4:H:101:TYR:N	2.87	0.41
5:I:76:VAL:HG13	5:I:132:VAL:HG23	2.01	0.41
6:J:189:LYS:O	6:J:193:LYS:HG3	2.20	0.41
7:L:69:HIS:NE2	7:L:103:LEU:O	2.30	0.41
7:L:95:SER:CB	7:L:103:LEU:HB2	2.50	0.41
8:M:70:ASP:CG	8:M:71:ARG:H	2.28	0.41
10:W:110:THR:O	10:W:114:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:51:LEU:HD12	11:X:51:LEU:O	2.19	0.41
11:X:141:LYS:HE3	11:X:143:TYR:OH	2.20	0.41
11:X:414:LEU:CD2	13:Z:273:HIS:HA	2.50	0.41
13:Z:230:LEU:O	13:Z:230:LEU:HD23	2.19	0.41
14:a:68:GLU:OE1	14:a:71:VAL:HB	2.20	0.41
14:a:114:CYS:O	14:a:117:ALA:HB3	2.21	0.41
14:a:115:LYS:O	14:a:118:ILE:CG2	2.67	0.41
14:a:365:MET:HA	14:a:368:GLU:CG	2.49	0.41
16:c:183:HIS:CD2	27:U:770:TRP:HZ2	2.38	0.41
17:d:293:PHE:HZ	17:d:302:TYR:CE2	2.37	0.41
18:f:209:MET:HE2	23:B:59:ARG:HD3	2.01	0.41
18:f:478:ARG:HH12	18:f:510:SER:HG	1.67	0.41
18:f:711:SER:CA	18:f:729:MET:HE3	2.49	0.41
18:f:807:ARG:H	18:f:807:ARG:HG3	1.65	0.41
19:g:165:ALA:HA	19:g:168:ASN:CB	2.50	0.41
23:B:127:VAL:O	23:B:127:VAL:HG12	2.20	0.41
24:E:289:LEU:HD23	24:E:289:LEU:HA	1.88	0.41
25:F:154:ASN:OD1	25:F:155:LYS:N	2.53	0.41
25:F:222:GLY:HA2	25:F:328:VAL:O	2.19	0.41
26:K:113:THR:HG23	26:K:143:PHE:CD2	2.55	0.41
27:U:24:LEU:CD1	27:U:48:LEU:HD23	2.50	0.41
27:U:163:PHE:CD1	27:U:163:PHE:C	2.96	0.41
27:U:405:THR:HG21	27:U:438:GLN:HA	2.01	0.41
27:U:462:LEU:HD12	27:U:462:LEU:HA	1.76	0.41
27:U:486:MET:HE2	27:U:781:LEU:HD21	2.02	0.41
27:U:675:MET:O	27:U:678:ASP:N	2.49	0.41
27:U:756:HIS:HB3	27:U:759:SER:HB3	2.02	0.41
1:C:354:ALA:CB	1:C:391:MET:HE1	2.51	0.41
2:D:303:VAL:O	2:D:303:VAL:HG13	2.20	0.41
2:D:327:LEU:O	2:D:330:LYS:NZ	2.53	0.41
2:D:384:MET:CE	24:E:167:PRO:HG3	2.45	0.41
3:G:9:PHE:O	3:G:11:ARG:N	2.54	0.41
4:H:40:ALA:O	4:H:42:ASN:N	2.53	0.41
5:I:241:GLU:OE2	5:I:241:GLU:HA	2.20	0.41
6:J:83:VAL:HG23	6:J:114:LEU:HD23	2.02	0.41
7:L:15:PRO:O	8:M:28:LYS:NZ	2.48	0.41
9:V:121:PHE:HE1	9:V:167:LEU:CB	2.32	0.41
9:V:236:ARG:CD	9:V:240:LEU:HD21	2.50	0.41
10:W:22:ALA:O	10:W:25:ASP:HB3	2.21	0.41
10:W:326:MET:HE3	10:W:327:GLU:N	2.34	0.41
10:W:346:GLU:HG3	10:W:350:ARG:HH22	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:X:114:ILE:HD11	11:X:130:GLU:CA	2.50	0.41
11:X:240:ASP:OD2	11:X:278:ARG:NH2	2.53	0.41
12:Y:279:GLU:HB2	12:Y:296:VAL:CG2	2.48	0.41
13:Z:262:LEU:HD12	13:Z:262:LEU:O	2.21	0.41
14:a:38:THR:CB	14:a:71:VAL:HG13	2.49	0.41
14:a:81:LEU:O	14:a:84:VAL:HG12	2.21	0.41
14:a:94:LEU:HA	14:a:97:LEU:CD2	2.50	0.41
15:b:23:PRO:O	15:b:24:THR:OG1	2.31	0.41
15:b:109:ILE:HB	15:b:138:VAL:CG2	2.49	0.41
15:b:172:THR:O	15:b:172:THR:CG2	2.67	0.41
16:c:40:LYS:HZ3	16:c:40:LYS:HB2	1.85	0.41
16:c:161:ARG:O	16:c:201:TYR:CE1	2.74	0.41
17:d:218:LYS:HE2	17:d:222:THR:HB	2.01	0.41
18:f:378:ASN:HB2	18:f:398:TRP:HH2	1.85	0.41
18:f:391:LEU:HD23	18:f:417:ILE:HD12	2.01	0.41
18:f:792:ALA:HB1	18:f:824:ALA:CB	2.50	0.41
19:g:109:GLY:O	19:g:112:LEU:HB3	2.20	0.41
22:A:126:SER:O	22:A:129:VAL:HG12	2.21	0.41
22:A:212:VAL:HA	22:A:339:ARG:O	2.20	0.41
23:B:424:GLU:O	23:B:428:TYR:CE1	2.73	0.41
24:E:247:THR:HG23	24:E:250:ASP:OD2	2.19	0.41
24:E:313:LEU:O	24:E:317:ALA:CB	2.68	0.41
25:F:66:LEU:HA	25:F:66:LEU:HD13	1.83	0.41
25:F:188:ILE:HG12	25:F:235:LEU:CG	2.50	0.41
25:F:330:ALA:HB3	25:F:348:LEU:CD1	2.50	0.41
26:K:51:GLU:HA	26:K:215:ILE:HG22	2.02	0.41
27:U:187:LEU:C	27:U:188:MET:HE2	2.43	0.41
27:U:213:PHE:O	27:U:216:VAL:HG12	2.20	0.41
27:U:353:LEU:HA	27:U:353:LEU:HD23	1.81	0.41
27:U:443:LEU:HD13	27:U:464:GLN:HG3	2.02	0.41
27:U:443:LEU:HD13	27:U:464:GLN:CG	2.50	0.41
27:U:641:SER:O	27:U:675:MET:HE2	2.19	0.41
27:U:792:ASN:HD21	27:U:796:LYS:CE	2.32	0.41
27:U:827:LYS:HB2	27:U:827:LYS:HE2	1.81	0.41
1:C:27:LYS:O	1:C:30:GLU:HG3	2.21	0.41
1:C:168:PRO:HG3	1:C:175:PHE:CZ	2.55	0.41
2:D:45:LYS:HE2	2:D:45:LYS:HA	2.02	0.41
2:D:410:ASP:N	2:D:410:ASP:OD1	2.53	0.41
4:H:75:VAL:HG23	4:H:135:LEU:CB	2.35	0.41
4:H:121:TYR:O	4:H:127:VAL:HG23	2.20	0.41
5:I:17:ARG:HG2	6:J:28:LYS:HZ3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:119:GLN:O	5:I:122:THR:N	2.52	0.41
5:I:124:PHE:HE1	6:J:118:TYR:CE1	2.35	0.41
7:L:6:TYR:HE1	8:M:9:LEU:HD12	1.84	0.41
7:L:108:LEU:HD12	7:L:108:LEU:C	2.46	0.41
7:L:147:THR:O	7:L:147:THR:OG1	2.28	0.41
8:M:137:LEU:O	8:M:148:LEU:HA	2.19	0.41
8:M:149:TYR:CD1	8:M:159:GLY:CA	3.03	0.41
9:V:80:LYS:O	9:V:84:LYS:N	2.53	0.41
9:V:82:LEU:HD22	9:V:162:GLU:HG3	2.03	0.41
9:V:191:LEU:HD12	9:V:195:ILE:HG23	2.02	0.41
9:V:205:LEU:HD22	9:V:205:LEU:N	2.35	0.41
9:V:440:LYS:HD2	9:V:444:ASP:OD1	2.20	0.41
10:W:72:LYS:HD2	10:W:76:GLU:CD	2.45	0.41
10:W:125:ILE:HA	10:W:145:LEU:HD12	2.02	0.41
10:W:451:MET:CE	13:Z:100:LYS:HA	2.50	0.41
11:X:125:LEU:C	11:X:128:ALA:H	2.28	0.41
11:X:200:ILE:HG13	11:X:201:TYR:N	2.31	0.41
11:X:351:SER:HB2	11:X:356:LEU:O	2.19	0.41
12:Y:309:GLU:OE2	12:Y:309:GLU:CA	2.63	0.41
13:Z:10:VAL:HG21	13:Z:49:ASP:OD1	2.20	0.41
13:Z:17:LEU:HD21	16:c:35:SER:O	2.20	0.41
13:Z:69:PHE:CE2	15:b:96:ALA:HA	2.55	0.41
14:a:135:ILE:HG13	14:a:158:LEU:CD2	2.51	0.41
14:a:193:GLN:HB3	14:a:225:LEU:HD13	2.01	0.41
14:a:281:THR:HG23	14:a:335:TRP:CE3	2.55	0.41
14:a:312:MET:HA	14:a:312:MET:CE	2.44	0.41
18:f:515:ALA:O	18:f:518:THR:HB	2.19	0.41
19:g:168:ASN:O	19:g:171:LEU:N	2.52	0.41
22:A:83:ASP:CG	23:B:137:SER:H	2.28	0.41
22:A:189:GLU:OE1	22:A:189:GLU:HA	2.19	0.41
22:A:272:ILE:HD13	22:A:272:ILE:N	2.34	0.41
22:A:292:ASP:HB2	23:B:300:GLY:CA	2.50	0.41
24:E:40:TYR:HE1	25:F:76:ASN:CB	2.33	0.41
24:E:55:GLN:OE1	25:F:135:PRO:HD3	2.21	0.41
24:E:122:MET:CE	25:F:344:ARG:NH1	2.80	0.41
25:F:226:TYR:CD1	25:F:226:TYR:C	2.99	0.41
25:F:294:LYS:HB3	25:F:295:ARG:NH2	2.36	0.41
26:K:227:HIS:NE2	26:K:229:PHE:O	2.53	0.41
27:U:202:VAL:O	27:U:205:TYR:HB2	2.20	0.41
27:U:466:LYS:HE2	27:U:466:LYS:HB2	1.91	0.41
1:C:256:SER:O	1:C:257:SER:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:277:LEU:HD23	1:C:310:ARG:HD2	2.03	0.41
2:D:126:PRO:O	2:D:127:ASN:OD1	2.38	0.41
2:D:239:TYR:O	2:D:242:GLU:HG2	2.20	0.41
3:G:138:MET:HE3	3:G:138:MET:HB3	1.66	0.41
4:H:71:HIS:C	4:H:72:ILE:HG13	2.45	0.41
4:H:80:GLY:O	4:H:81:PRO:C	2.63	0.41
4:H:118:MET:HE2	4:H:150:ASP:O	2.20	0.41
5:I:239:LYS:O	5:I:242:GLU:HG2	2.20	0.41
7:L:24:TYR:HD2	26:K:15:PHE:O	2.04	0.41
9:V:74:ASP:O	9:V:78:HIS:N	2.40	0.41
9:V:175:MET:HG3	9:V:184:ALA:HB2	2.03	0.41
9:V:201:ARG:HH12	9:V:241:ARG:HD3	1.84	0.41
9:V:212:TYR:CD2	9:V:213:TYR:HD1	2.38	0.41
9:V:435:GLU:OE1	9:V:453:HIS:NE2	2.52	0.41
10:W:436:MET:HE3	10:W:436:MET:HB2	1.96	0.41
11:X:155:ARG:HG2	11:X:155:ARG:HH11	1.85	0.41
11:X:407:MET:C	11:X:410:VAL:HG12	2.45	0.41
14:a:119:GLY:O	14:a:123:LEU:HB2	2.20	0.41
14:a:244:ASN:ND2	14:a:246:GLU:HB3	2.35	0.41
14:a:277:LEU:HD21	14:a:333:MET:HE3	2.02	0.41
14:a:335:TRP:NE1	14:a:337:GLN:HB3	2.34	0.41
14:a:352:ARG:HG2	14:a:352:ARG:HH11	1.86	0.41
15:b:104:ASN:OD1	15:b:104:ASN:C	2.63	0.41
15:b:138:VAL:O	15:b:168:SER:HB3	2.21	0.41
15:b:184:ILE:HA	15:b:188:ILE:HB	2.00	0.41
17:d:146:ASP:HA	17:d:149:GLU:HB2	2.03	0.41
17:d:269:ASP:O	17:d:272:ALA:HB3	2.21	0.41
18:f:90:THR:HG23	23:B:411:ARG:HA	2.02	0.41
18:f:242:GLU:CD	18:f:245:ASN:HD21	2.28	0.41
18:f:430:ASP:HB2	19:g:169:PHE:N	2.36	0.41
18:f:478:ARG:NH2	18:f:509:LYS:HZ2	2.19	0.41
22:A:258:ARG:HG3	22:A:301:GLU:OE2	2.20	0.41
23:B:71:TYR:O	23:B:75:GLU:N	2.46	0.41
23:B:233:THR:O	23:B:237:LYS:HG3	2.20	0.41
23:B:371:ARG:HG3	23:B:371:ARG:HH11	1.86	0.41
23:B:409:GLU:HB3	23:B:411:ARG:HH12	1.85	0.41
24:E:271:HIS:C	24:E:272:ARG:HH21	2.28	0.41
25:F:220:PRO:CG	25:F:350:ARG:HD3	2.49	0.41
25:F:251:LEU:O	25:F:252:ALA:C	2.63	0.41
25:F:253:GLY:N	25:F:254:PRO:CD	2.83	0.41
25:F:376:SER:O	25:F:379:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:225:ASN:O	26:K:228:MET:SD	2.79	0.41
27:U:37:GLU:H	27:U:37:GLU:CD	2.26	0.41
27:U:368:ALA:CA	27:U:371:ILE:HG22	2.51	0.41
27:U:469:SER:HG	27:U:471:ASP:CG	2.12	0.41
27:U:831:ALA:O	27:U:836:THR:CB	2.68	0.41
27:U:880:ASN:N	27:U:881:PRO:HD2	2.36	0.41
1:C:82:LYS:HD2	1:C:82:LYS:HA	1.75	0.41
1:C:251:ILE:HG21	1:C:301:LEU:HD11	2.01	0.41
2:D:225:ALA:HB1	2:D:259:PRO:O	2.20	0.41
2:D:355:SER:OG	2:D:357:GLU:CD	2.64	0.41
4:H:12:THR:O	4:H:12:THR:OG1	2.38	0.41
4:H:14:SER:OG	4:H:18:LYS:N	2.50	0.41
4:H:111:VAL:CG1	4:H:155:TYR:HB2	2.50	0.41
4:H:144:PRO:O	4:H:145:TYR:HD1	2.03	0.41
4:H:179:ASN:OD1	4:H:179:ASN:C	2.63	0.41
4:H:184:LEU:O	4:H:188:ILE:HD12	2.20	0.41
5:I:105:ILE:O	5:I:107:CYS:N	2.47	0.41
5:I:158:GLY:N	6:J:58:THR:HG21	2.35	0.41
7:L:72:ILE:HD12	7:L:72:ILE:O	2.20	0.41
7:L:133:LEU:HA	7:L:145:PHE:O	2.20	0.41
7:L:160:SER:CB	7:L:168:ALA:HB3	2.50	0.41
8:M:120:HIS:HB2	8:M:155:GLY:HA3	2.02	0.41
8:M:181:MET:H	8:M:181:MET:HG3	1.59	0.41
10:W:263:TRP:CZ3	10:W:295:LYS:HB3	2.56	0.41
10:W:371:THR:O	10:W:414:ASN:HA	2.20	0.41
11:X:57:LEU:HB3	11:X:66:LEU:HD13	2.03	0.41
12:Y:61:LEU:O	12:Y:63:TRP:HD1	2.04	0.41
12:Y:316:LEU:HD11	12:Y:331:ASP:HB2	2.02	0.41
13:Z:156:GLU:HG2	13:Z:157:HIS:H	1.86	0.41
13:Z:201:LEU:O	13:Z:201:LEU:HD12	2.20	0.41
13:Z:246:VAL:CG2	17:d:330:ILE:HD11	2.46	0.41
14:a:5:PRO:HA	14:a:8:LEU:HD21	2.01	0.41
14:a:18:GLN:HA	14:a:21:VAL:CG2	2.51	0.41
14:a:78:GLU:OE1	14:a:82:HIS:HE1	2.03	0.41
14:a:84:VAL:HG21	14:a:93:ALA:CB	2.50	0.41
14:a:293:PHE:CD2	14:a:294:GLU:HG3	2.55	0.41
16:c:61:PHE:HD1	16:c:67:VAL:HG22	1.86	0.41
17:d:199:LEU:N	17:d:199:LEU:HD23	2.36	0.41
17:d:283:LEU:HA	17:d:315:TYR:CD1	2.55	0.41
18:f:608:LYS:O	18:f:612:LEU:N	2.43	0.41
18:f:801:VAL:HG23	18:f:802:SER:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:828:ARG:HD3	18:f:829:MET:N	2.35	0.41
18:f:872:VAL:HG12	18:f:873:LEU:N	2.35	0.41
19:g:170:GLN:O	19:g:171:LEU:C	2.63	0.41
22:A:172:VAL:HG23	22:A:176:ASP:OD2	2.20	0.41
22:A:334:PRO:HG2	25:F:394:ALA:C	2.44	0.41
22:A:367:ASP:O	22:A:368:ILE:C	2.64	0.41
22:A:373:LEU:HD11	22:A:409:PHE:CB	2.49	0.41
23:B:66:GLU:HG2	27:U:834:SER:CB	2.36	0.41
24:E:251:ARG:HG3	24:E:255:ARG:CZ	2.50	0.41
24:E:308:ALA:O	24:E:312:ILE:N	2.42	0.41
25:F:272:PHE:CE2	25:F:320:PHE:HE2	2.38	0.41
25:F:288:LEU:HB3	25:F:332:THR:HG1	1.83	0.41
27:U:54:PHE:HB3	27:U:57:ARG:HG3	2.01	0.41
27:U:181:LEU:HA	27:U:201:LEU:CD1	2.51	0.41
27:U:194:ARG:HG2	27:U:194:ARG:HH11	1.85	0.41
27:U:332:GLU:OE2	27:U:453:HIS:HE1	2.03	0.41
27:U:509:GLY:HA3	27:U:544:ILE:CG1	2.27	0.41
27:U:636:VAL:HG13	27:U:637:VAL:N	2.35	0.41
27:U:653:ALA:HA	27:U:672:LEU:HD21	2.03	0.41
2:D:296:MET:CE	2:D:309:MET:HE2	2.38	0.41
3:G:84:THR:HB	8:M:156:VAL:HG12	2.01	0.41
3:G:208:ILE:HG22	3:G:209:ASP:N	2.36	0.41
4:H:34:PRO:CG	4:H:49:GLU:HG2	2.49	0.41
5:I:98:LEU:O	5:I:102:GLN:HA	2.21	0.41
5:I:159:TRP:CE2	6:J:54:GLN:HB3	2.56	0.41
6:J:4:ASP:HB2	6:J:21:TYR:CE2	2.55	0.41
6:J:152:THR:HG22	26:K:83:LYS:HG3	2.03	0.41
8:M:36:ALA:HB3	8:M:78:ALA:HB2	2.02	0.41
8:M:206:ASP:OD1	8:M:206:ASP:N	2.54	0.41
9:V:69:THR:O	9:V:73:GLU:HG3	2.21	0.41
9:V:184:ALA:CA	9:V:187:ILE:HB	2.40	0.41
9:V:358:MET:N	9:V:359:PRO:CD	2.84	0.41
10:W:102:ALA:C	10:W:106:GLN:HE22	2.29	0.41
10:W:242:SER:HA	10:W:245:LYS:HE3	2.03	0.41
11:X:272:SER:O	11:X:277:LEU:CD2	2.68	0.41
11:X:371:ASP:O	11:X:372:LYS:HB2	2.21	0.41
12:Y:22:LEU:HD23	12:Y:22:LEU:HA	1.75	0.41
12:Y:247:LEU:O	12:Y:250:LEU:HB2	2.20	0.41
13:Z:54:PHE:CG	13:Z:78:MET:HG2	2.55	0.41
14:a:295:GLU:HA	14:a:298:LYS:CE	2.51	0.41
14:a:349:MET:HB2	14:a:349:MET:HE3	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:b:61:LEU:H	15:b:61:LEU:HD12	1.85	0.41
15:b:98:LYS:HB2	15:b:98:LYS:HE3	1.79	0.41
17:d:93:GLY:O	17:d:97:GLN:HG3	2.20	0.41
17:d:232:LEU:HD12	17:d:232:LEU:HA	1.82	0.41
17:d:244:VAL:HG11	17:d:267:ILE:HD13	1.99	0.41
17:d:251:ILE:HD12	17:d:257:THR:OG1	2.21	0.41
17:d:254:GLU:H	17:d:254:GLU:CD	2.29	0.41
18:f:172:GLU:HG2	18:f:172:GLU:O	2.20	0.41
18:f:450:ILE:HG12	18:f:822:VAL:HG11	2.01	0.41
18:f:685:THR:HA	18:f:688:ARG:HD2	2.02	0.41
18:f:722:SER:OG	18:f:758:ASN:OD1	2.25	0.41
18:f:759:LEU:O	18:f:763:ARG:HB2	2.21	0.41
18:f:844:VAL:O	18:f:844:VAL:HG23	2.20	0.41
19:g:89:LEU:CD2	19:g:155:VAL:HG21	2.50	0.41
19:g:116:ILE:HD13	19:g:136:LEU:HD11	2.02	0.41
20:u:177:LEU:HD22	20:u:265:PHE:HD2	1.86	0.41
22:A:113:ILE:O	22:A:113:ILE:HG13	2.17	0.41
22:A:167:GLU:O	22:A:167:GLU:HG2	2.21	0.41
22:A:230:ALA:CA	22:A:233:THR:HG23	2.47	0.41
22:A:279:ALA:O	23:B:307:ARG:HD3	2.21	0.41
22:A:395:PHE:CE2	22:A:411:GLU:HB3	2.55	0.41
23:B:259:TYR:HB2	23:B:262:ASP:CB	2.44	0.41
23:B:376:ASP:OD1	23:B:376:ASP:N	2.54	0.41
24:E:135:ILE:HD11	24:E:186:ALA:CB	2.50	0.41
24:E:193:CYS:HB2	24:E:227:PRO:HG2	2.01	0.41
24:E:304:PRO:HG2	24:E:340:GLY:CA	2.50	0.41
25:F:202:ILE:HG13	25:F:329:ILE:HD11	2.02	0.41
25:F:203:VAL:HG22	25:F:244:THR:CB	2.50	0.41
25:F:280:PRO:CB	25:F:325:GLN:HB3	2.50	0.41
25:F:307:GLN:O	25:F:311:LEU:HD23	2.20	0.41
26:K:90:ASP:O	26:K:94:VAL:HG23	2.21	0.41
27:U:27:LEU:HD23	27:U:27:LEU:HA	1.88	0.41
27:U:185:MET:HE2	27:U:222:PHE:HE2	1.86	0.41
27:U:246:TYR:CE2	27:U:794:ASP:HB3	2.55	0.41
27:U:247:GLN:CG	27:U:904:LYS:HD2	2.49	0.41
27:U:504:ASP:HB2	27:U:535:TYR:OH	2.21	0.41
27:U:895:PRO:HG2	27:U:902:PRO:HD3	2.03	0.41
1:C:328:ILE:HD11	29:C:501:ATP:N6	2.36	0.41
2:D:143:LEU:HG	24:E:64:LEU:HD11	2.03	0.41
2:D:185:LEU:HD13	2:D:225:ALA:HB2	2.02	0.41
2:D:238:LYS:CG	2:D:239:TYR:H	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:H:24:TYR:O	4:H:27:ALA:HB3	2.21	0.41
4:H:36:VAL:HG13	4:H:195:LEU:HD23	2.02	0.41
4:H:134:LEU:O	4:H:148:GLN:HA	2.20	0.41
4:H:226:VAL:HG12	4:H:230:LEU:HD12	2.02	0.41
5:I:240:HIS:O	5:I:244:GLU:HG2	2.20	0.41
6:J:86:ARG:O	6:J:86:ARG:HD3	2.21	0.41
7:L:185:ASN:O	7:L:188:VAL:HG12	2.20	0.41
9:V:79:VAL:HG12	9:V:83:GLU:OE2	2.19	0.41
10:W:49:SER:HA	10:W:52:LYS:HZ3	1.85	0.41
10:W:87:ILE:O	10:W:91:SER:HB3	2.21	0.41
10:W:212:LYS:HA	10:W:212:LYS:CE	2.50	0.41
10:W:369:TYR:N	10:W:369:TYR:CD1	2.89	0.41
10:W:378:MET:SD	10:W:413:ILE:CD1	3.09	0.41
11:X:53:LEU:HD23	11:X:53:LEU:HA	1.92	0.41
11:X:115:GLU:HG3	11:X:116:TRP:N	2.36	0.41
12:Y:301:ILE:HD13	12:Y:342:ARG:HB3	2.01	0.41
13:Z:48:LEU:HD23	13:Z:120:VAL:CG1	2.50	0.41
13:Z:144:VAL:HG21	14:a:178:ARG:HD3	2.01	0.41
14:a:82:HIS:O	14:a:86:GLN:CB	2.69	0.41
14:a:84:VAL:HG23	14:a:93:ALA:HB2	2.02	0.41
14:a:130:VAL:HG23	14:a:133:GLU:HB3	2.03	0.41
14:a:132:LYS:HZ3	14:a:162:TYR:CB	2.34	0.41
14:a:186:LYS:HE2	14:a:190:VAL:HG22	2.03	0.41
14:a:250:THR:HA	14:a:253:THR:HG22	2.01	0.41
15:b:14:GLU:N	15:b:82:GLY:O	2.45	0.41
15:b:51:LEU:CD1	15:b:61:LEU:HB2	2.50	0.41
18:f:218:GLU:O	18:f:258:LYS:CD	2.68	0.41
18:f:329:ASN:O	18:f:332:ALA:HB3	2.21	0.41
18:f:435:SER:HB3	18:f:440:ILE:HG12	2.03	0.41
18:f:459:CYS:CB	19:g:154:MET:HB2	2.51	0.41
18:f:493:ASN:HA	18:f:498:LEU:HD11	2.02	0.41
19:g:88:PHE:O	19:g:155:VAL:HB	2.21	0.41
19:g:103:THR:HG23	19:g:104:ARG:O	2.20	0.41
19:g:109:GLY:CA	19:g:145:GLN:HE22	2.34	0.41
20:u:199:ASN:OD1	20:u:199:ASN:N	2.52	0.41
22:A:121:PHE:CE2	22:A:147:TYR:CE2	3.07	0.41
23:B:151:LEU:HB2	23:B:161:GLY:O	2.20	0.41
23:B:347:ILE:HD13	23:B:347:ILE:HA	1.85	0.41
24:E:233:ASP:O	24:E:235:ILE:HG13	2.19	0.41
25:F:181:PRO:HB2	25:F:183:GLU:OE1	2.21	0.41
26:K:66:LYS:NZ	26:K:78:MET:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:71:LEU:HD23	27:U:71:LEU:C	2.45	0.41
27:U:136:LYS:HG3	27:U:137:MET:N	2.35	0.41
27:U:199:ARG:O	27:U:202:VAL:HG13	2.21	0.41
27:U:399:TRP:O	27:U:402:PHE:HB3	2.21	0.41
27:U:405:THR:O	27:U:445:ALA:HB2	2.20	0.41
27:U:669:ILE:HD11	27:U:695:MET:CG	2.46	0.41
27:U:879:ASP:OD1	27:U:925:VAL:HG21	2.21	0.41
28:e:61:GLU:O	28:e:65:TYR:HD2	2.03	0.41
1:C:358:GLU:HA	2:D:324:PRO:HB2	2.02	0.41
2:D:144:PRO:HD2	24:E:64:LEU:HD22	2.01	0.41
3:G:98:ALA:O	3:G:101:TRP:N	2.53	0.41
7:L:7:ASP:OD1	7:L:20:HIS:HB3	2.20	0.41
8:M:77:VAL:CB	8:M:84:ALA:HB1	2.51	0.41
8:M:116:ALA:C	8:M:117:MET:HE2	2.45	0.41
8:M:173:LYS:C	8:M:177:GLU:HG3	2.45	0.41
8:M:197:ILE:HG21	8:M:211:LEU:CD1	2.51	0.41
9:V:79:VAL:HG12	9:V:83:GLU:CD	2.46	0.41
9:V:159:LEU:HA	9:V:159:LEU:HD23	1.77	0.41
9:V:345:ARG:CG	28:e:41:ASP:O	2.68	0.41
10:W:230:MET:HE3	10:W:230:MET:O	2.21	0.41
10:W:263:TRP:CH2	10:W:264:GLN:HG2	2.56	0.41
10:W:366:MET:HE1	10:W:381:LEU:HB2	2.01	0.41
10:W:448:LYS:HE3	10:W:448:LYS:HB3	1.87	0.41
13:Z:20:VAL:HG23	16:c:216:MET:HE3	2.03	0.41
13:Z:39:LEU:HD11	13:Z:95:TYR:HB3	2.01	0.41
13:Z:113:LYS:HE3	13:Z:113:LYS:HB3	1.81	0.41
13:Z:130:ASP:O	13:Z:131:LEU:C	2.63	0.41
14:a:111:VAL:CG2	14:a:115:LYS:HE3	2.50	0.41
14:a:112:ILE:CG1	14:a:138:VAL:HG11	2.51	0.41
14:a:304:VAL:HA	14:a:307:VAL:HG12	2.02	0.41
14:a:321:LYS:HG3	14:a:336:VAL:CG2	2.49	0.41
15:b:38:HIS:HE1	15:b:72:LEU:CD1	2.31	0.41
15:b:130:ARG:HH21	15:b:131:LEU:HD23	1.84	0.41
16:c:31:VAL:O	16:c:205:ILE:HD12	2.21	0.41
17:d:149:GLU:CD	17:d:187:TYR:HB2	2.46	0.41
18:f:69:SER:C	18:f:73:PRO:HG2	2.46	0.41
18:f:90:THR:HG23	23:B:412:MET:H	1.86	0.41
18:f:189:LYS:NZ	18:f:216:MET:HE3	2.35	0.41
18:f:193:PRO:HG3	18:f:220:ASP:OD2	2.20	0.41
18:f:233:LEU:CD1	18:f:252:ALA:HB2	2.51	0.41
18:f:553:THR:HG22	18:f:809:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:f:833:PHE:HA	18:f:838:ARG:O	2.20	0.41
20:u:275:MET:CA	20:u:275:MET:HE2	2.50	0.41
22:A:206:ILE:CG2	25:F:404:GLY:HA3	2.50	0.41
22:A:293:ASN:O	22:A:297:ARG:HG3	2.21	0.41
22:A:333:ARG:HG2	22:A:334:PRO:HD2	2.03	0.41
23:B:200:SER:HB2	23:B:219:PRO:O	2.21	0.41
24:E:273:VAL:HG22	24:E:274:LYS:N	2.35	0.41
24:E:317:ALA:O	24:E:318:GLY:C	2.64	0.41
26:K:149:LYS:O	26:K:149:LYS:HG3	2.21	0.41
27:U:147:TYR:C	27:U:149:GLN:H	2.29	0.41
27:U:554:LEU:CD2	27:U:761:VAL:HG22	2.48	0.41
27:U:791:LEU:HD11	27:U:794:ASP:O	2.21	0.41
1:C:45:LEU:HA	1:C:45:LEU:HD23	1.84	0.41
1:C:49:ARG:NH2	27:U:639:LEU:O	2.45	0.41
1:C:71:SER:HG	2:D:112:TYR:HD2	1.69	0.41
1:C:151:ILE:HG12	1:C:198:LEU:CD2	2.50	0.41
1:C:275:GLU:HG2	23:B:253:SER:HB3	2.02	0.41
2:D:84:SER:HB3	16:c:152:LYS:NZ	2.36	0.41
2:D:238:LYS:O	2:D:239:TYR:HB2	2.20	0.41
2:D:410:ASP:CG	2:D:411:GLU:H	2.29	0.41
4:H:65:VAL:HG22	4:H:75:VAL:HG11	1.97	0.41
4:H:93:LEU:HD23	4:H:93:LEU:HA	1.81	0.41
5:I:49:ARG:H	5:I:49:ARG:HG2	1.63	0.41
5:I:56:LEU:HD23	5:I:56:LEU:C	2.45	0.41
5:I:108:GLU:CA	5:I:148:TYR:HE2	2.34	0.41
5:I:134:LEU:HG	5:I:136:TYR:CZ	2.55	0.41
5:I:218:ARG:HA	5:I:218:ARG:HD2	1.93	0.41
6:J:132:LEU:HD23	6:J:132:LEU:HA	1.79	0.41
7:L:10:VAL:O	7:L:10:VAL:HG22	2.20	0.41
7:L:18:ARG:HD2	7:L:23:GLU:OE2	2.21	0.41
7:L:39:LYS:O	7:L:39:LYS:HG3	2.19	0.41
7:L:55:GLU:HB2	26:K:182:GLN:HG3	2.02	0.41
7:L:90:GLN:OE1	7:L:90:GLN:HA	2.21	0.41
7:L:158:ALA:H	8:M:57:LEU:HD22	1.85	0.41
8:M:66:LEU:CD1	8:M:76:ALA:HA	2.50	0.41
9:V:69:THR:HG23	9:V:70:VAL:N	2.35	0.41
9:V:73:GLU:HG3	9:V:147:PHE:HE2	1.85	0.41
9:V:122:THR:HG22	9:V:128:ARG:HD2	2.01	0.41
9:V:166:TYR:O	9:V:170:LEU:HD13	2.20	0.41
9:V:168:GLN:O	9:V:172:VAL:N	2.40	0.41
9:V:276:PHE:HD2	9:V:288:TYR:CD2	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:W:40:LEU:HB3	10:W:41:GLN:H	1.54	0.41
10:W:86:ASN:C	10:W:90:LEU:HG	2.43	0.41
10:W:275:ILE:HG23	10:W:309:PHE:CZ	2.54	0.41
11:X:377:ILE:HG21	12:Y:312:ARG:CB	2.50	0.41
12:Y:95:LEU:CG	12:Y:99:GLU:HG3	2.51	0.41
13:Z:6:VAL:HG22	13:Z:139:ILE:HD11	2.02	0.41
13:Z:38:VAL:HG11	13:Z:91:ILE:HG23	2.03	0.41
13:Z:237:LEU:HB3	13:Z:238:PRO:HD2	2.02	0.41
14:a:89:ASP:OD1	14:a:92:VAL:HG12	2.19	0.41
14:a:142:LEU:O	14:a:142:LEU:HG	2.19	0.41
14:a:143:ASN:C	14:a:144:ASN:OD1	2.64	0.41
14:a:186:LYS:HG3	14:a:188:LEU:O	2.20	0.41
14:a:219:HIS:ND1	14:a:220:PRO:HD2	2.36	0.41
14:a:302:ILE:HD11	14:a:306:GLU:OE2	2.21	0.41
15:b:15:TYR:C	15:b:17:ARG:H	2.29	0.41
15:b:77:THR:O	15:b:77:THR:HG23	2.21	0.41
15:b:97:LEU:CG	15:b:107:MET:CE	2.99	0.41
15:b:118:GLU:O	15:b:118:GLU:HG2	2.20	0.41
15:b:161:ASN:OD1	15:b:161:ASN:N	2.53	0.41
16:c:32:TYR:HA	16:c:206:ASN:O	2.19	0.41
16:c:137:SER:CB	20:u:273:THR:HG22	2.51	0.41
17:d:138:LYS:N	17:d:138:LYS:HD2	2.36	0.41
17:d:141:LEU:O	17:d:145:ARG:HB3	2.21	0.41
17:d:188:MET:HG3	17:d:189:HIS:N	2.36	0.41
17:d:233:GLU:OE2	17:d:233:GLU:C	2.64	0.41
17:d:243:LYS:HB2	17:d:243:LYS:HE3	1.84	0.41
17:d:248:LYS:HE3	17:d:248:LYS:HB3	1.89	0.41
17:d:291:LEU:HD11	17:d:308:TRP:CZ3	2.56	0.41
18:f:110:TYR:CE1	18:f:119:LYS:HG3	2.55	0.41
18:f:231:LEU:HD22	18:f:852:VAL:HG13	2.03	0.41
18:f:266:LEU:HD12	18:f:266:LEU:HA	1.94	0.41
18:f:325:GLN:NE2	18:f:329:ASN:OD1	2.48	0.41
18:f:367:SER:HB3	18:f:370:MET:HG3	2.02	0.41
18:f:385:PHE:CZ	18:f:773:LYS:HD2	2.56	0.41
18:f:446:LEU:O	18:f:450:ILE:N	2.45	0.41
18:f:447:ALA:C	18:f:450:ILE:HG22	2.46	0.41
18:f:557:TRP:HZ2	18:f:809:ILE:HG23	1.85	0.41
18:f:754:LYS:HD2	18:f:754:LYS:HA	1.73	0.41
18:f:807:ARG:O	18:f:812:GLY:N	2.54	0.41
19:g:88:PHE:O	19:g:155:VAL:CB	2.69	0.41
19:g:122:LEU:HD22	19:g:127:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:u:156:PHE:CD2	20:u:259:ARG:HG2	2.56	0.41
20:u:246:ILE:HD12	20:u:246:ILE:N	2.35	0.41
22:A:134:ILE:CD1	22:A:152:PRO:HG3	2.51	0.41
22:A:433:ASN:ND2	26:K:66:LYS:HG2	2.36	0.41
23:B:121:ALA:HB3	23:B:135:ILE:CD1	2.43	0.41
23:B:197:ILE:O	23:B:197:ILE:CG1	2.64	0.41
23:B:430:LYS:O	23:B:431:GLN:C	2.64	0.41
24:E:60:VAL:O	24:E:61:LEU:HD23	2.20	0.41
24:E:61:LEU:O	24:E:62:LYS:HB2	2.21	0.41
24:E:90:SER:O	24:E:91:LYS:C	2.63	0.41
24:E:105:LEU:HD23	24:E:105:LEU:HA	1.98	0.41
24:E:178:THR:HG21	24:E:301:ILE:O	2.20	0.41
24:E:261:LEU:HD11	24:E:288:ALA:HB3	2.03	0.41
24:E:356:ARG:HH22	25:F:200:GLU:HG2	1.86	0.41
25:F:189:GLY:O	29:F:501:ATP:N6	2.48	0.41
25:F:195:ILE:HA	25:F:236:LEU:HD11	2.02	0.41
25:F:233:LYS:HG2	25:F:233:LYS:H	1.61	0.41
25:F:268:VAL:CG1	25:F:313:LEU:HA	2.50	0.41
25:F:388:THR:HG22	25:F:424:ILE:CD1	2.51	0.41
26:K:32:LYS:HD3	26:K:32:LYS:HA	1.79	0.41
26:K:91:LYS:HG2	26:K:119:LEU:HD23	2.02	0.41
26:K:230:THR:CG2	26:K:233:GLU:OE1	2.68	0.41
27:U:167:ILE:N	27:U:167:ILE:HD13	2.35	0.41
27:U:342:LEU:HD13	27:U:342:LEU:HA	1.87	0.41
27:U:391:GLU:OE2	27:U:391:GLU:CA	2.69	0.41
27:U:557:TYR:HD1	27:U:588:MET:HE3	1.85	0.41
27:U:577:ILE:HD12	27:U:580:ARG:NH1	2.36	0.41
27:U:717:ILE:HG23	27:U:718:ASN:N	2.36	0.41
1:C:131:VAL:O	1:C:132:ASP:C	2.64	0.41
1:C:148:TYR:H	1:C:206:HIS:HE1	1.69	0.41
2:D:159:LYS:N	2:D:159:LYS:HD2	2.36	0.41
2:D:338:ARG:NE	11:X:234:GLU:OE2	2.53	0.41
2:D:398:ASP:OD1	2:D:398:ASP:N	2.52	0.41
4:H:50:LYS:HD2	4:H:62:VAL:O	2.20	0.41
4:H:101:TYR:HD1	4:H:101:TYR:N	2.18	0.41
4:H:179:ASN:C	4:H:181:ASP:H	2.29	0.41
4:H:222:THR:OG1	4:H:223:PRO:HD2	2.21	0.41
5:I:86:LEU:HD12	5:I:86:LEU:HA	1.82	0.41
6:J:38:ARG:NH2	6:J:182:GLU:O	2.42	0.41
7:L:14:SER:HB3	7:L:18:ARG:O	2.21	0.41
7:L:39:LYS:NZ	7:L:143:HIS:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:L:45:VAL:CG2	7:L:188:VAL:HG23	2.42	0.41
7:L:84:LEU:HD12	7:L:130:VAL:HG11	2.03	0.41
8:M:69:VAL:HG23	8:M:75:MET:HE2	2.01	0.41
8:M:136:MET:HA	8:M:149:TYR:O	2.20	0.41
9:V:68:ASP:O	9:V:72:LEU:HD22	2.21	0.41
9:V:282:ASN:ND2	12:Y:385:ARG:CB	2.81	0.41
9:V:334:VAL:CG1	9:V:395:ILE:HD13	2.50	0.41
9:V:403:ILE:HD12	9:V:403:ILE:HA	1.80	0.41
11:X:93:LEU:HD22	11:X:129:LEU:HD13	2.00	0.41
12:Y:26:LEU:HD23	12:Y:26:LEU:HA	1.83	0.41
12:Y:29:PRO:HA	12:Y:32:ARG:NH2	2.37	0.41
12:Y:73:MET:O	12:Y:77:ASN:N	2.37	0.41
12:Y:276:ALA:O	12:Y:280:GLN:HG2	2.21	0.41
12:Y:314:LEU:HD11	12:Y:319:MET:SD	2.61	0.41
13:Z:10:VAL:CG2	13:Z:49:ASP:OD1	2.68	0.41
13:Z:33:LYS:O	13:Z:34:ARG:C	2.63	0.41
14:a:60:TYR:CZ	14:a:64:ILE:HD12	2.56	0.41
14:a:291:LEU:HD12	14:a:331:VAL:O	2.21	0.41
15:b:123:ASP:O	15:b:126:LYS:HG2	2.21	0.41
17:d:241:TYR:OH	17:d:270:GLU:OE2	2.38	0.41
18:f:226:TYR:HA	18:f:229:VAL:CG1	2.50	0.41
18:f:372:LEU:HG	18:f:372:LEU:H	1.68	0.41
18:f:423:ASP:OD2	19:g:91:PRO:HD3	2.20	0.41
19:g:108:THR:CG2	19:g:109:GLY:N	2.84	0.41
19:g:122:LEU:HD22	19:g:127:ILE:HD13	2.03	0.41
22:A:117:GLN:H	22:A:117:GLN:CD	2.29	0.41
22:A:161:VAL:HG23	22:A:256:MET:SD	2.61	0.41
23:B:123:VAL:HG13	23:B:133:VAL:HG22	2.02	0.41
23:B:125:THR:HB	23:B:129:SER:OG	2.21	0.41
24:E:141:GLN:OE1	24:E:141:GLN:N	2.43	0.41
25:F:238:ARG:O	25:F:241:ALA:HB3	2.21	0.41
27:U:14:GLU:CB	27:U:19:LEU:HD23	2.48	0.41
27:U:815:ALA:HB1	27:U:816:PRO:CD	2.51	0.41
2:D:205:TYR:CG	2:D:314:ALA:CB	3.05	0.40
2:D:229:ARG:HG2	2:D:229:ARG:NH1	2.35	0.40
3:G:17:SER:OG	3:G:21:ARG:O	2.28	0.40
3:G:232:GLU:HA	3:G:235:ILE:CD1	2.47	0.40
5:I:89:GLU:HA	5:I:89:GLU:OE1	2.21	0.40
6:J:10:PHE:CE2	26:K:27:ALA:HB2	2.57	0.40
6:J:69:VAL:HG12	6:J:104:VAL:HG23	2.04	0.40
6:J:137:ASP:C	6:J:139:ASP:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:M:124:LEU:HD23	8:M:124:LEU:HA	1.86	0.40
9:V:200:ARG:HE	9:V:200:ARG:HB3	1.57	0.40
9:V:316:ALA:O	9:V:318:GLN:N	2.54	0.40
9:V:340:GLY:HA2	9:V:405:THR:HG1	1.86	0.40
9:V:367:VAL:CG2	9:V:398:LEU:HD21	2.51	0.40
9:V:471:GLU:HB3	9:V:472:PRO:HD3	2.03	0.40
10:W:185:PHE:O	10:W:188:GLU:N	2.54	0.40
11:X:66:LEU:HD12	11:X:66:LEU:HA	1.78	0.40
12:Y:19:ILE:HG22	12:Y:150:PHE:CZ	2.55	0.40
12:Y:62:ASP:OD1	12:Y:62:ASP:C	2.65	0.40
12:Y:121:LEU:CD2	12:Y:147:ILE:HG21	2.51	0.40
12:Y:334:LEU:HD23	12:Y:334:LEU:HA	1.87	0.40
12:Y:387:ILE:HG12	13:Z:276:ILE:CG1	2.39	0.40
13:Z:283:ARG:O	13:Z:286:GLU:HB3	2.21	0.40
14:a:37:LEU:HD21	14:a:64:ILE:HD11	2.03	0.40
14:a:99:LYS:HA	14:a:102:GLU:HG2	2.03	0.40
14:a:190:VAL:HG12	14:a:194:GLN:OE1	2.21	0.40
14:a:210:VAL:O	14:a:210:VAL:CG2	2.70	0.40
14:a:221:VAL:C	14:a:225:LEU:HD12	2.45	0.40
15:b:5:SER:CB	15:b:64:LEU:HD11	2.51	0.40
15:b:33:VAL:HG12	15:b:75:LEU:HD11	2.01	0.40
15:b:49:VAL:HG23	15:b:71:ILE:HG12	2.03	0.40
16:c:72:VAL:HG21	16:c:112:TYR:CE1	2.56	0.40
18:f:160:ARG:HH11	18:f:160:ARG:HB3	1.86	0.40
18:f:173:LEU:HD21	18:f:181:ARG:HG3	2.03	0.40
18:f:231:LEU:CD2	18:f:852:VAL:HG13	2.51	0.40
18:f:316:ASP:C	18:f:319:GLU:HG3	2.46	0.40
18:f:407:MET:CB	18:f:440:ILE:HG22	2.51	0.40
18:f:479:LEU:CD1	18:f:514:VAL:HG22	2.51	0.40
18:f:723:TYR:OH	18:f:757:ASN:HB2	2.21	0.40
18:f:894:LEU:HD12	18:f:894:LEU:N	2.35	0.40
19:g:108:THR:HB	19:g:111:GLU:OE1	2.20	0.40
22:A:262:GLU:HA	22:A:262:GLU:OE1	2.21	0.40
22:A:409:PHE:O	22:A:413:VAL:N	2.45	0.40
23:B:112:LEU:HD12	23:B:112:LEU:HA	1.92	0.40
24:E:300:HIS:ND1	24:E:301:ILE:N	2.69	0.40
24:E:318:GLY:O	24:E:319:PRO:C	2.63	0.40
25:F:129:ARG:HH11	25:F:129:ARG:CG	2.34	0.40
25:F:188:ILE:HD11	25:F:235:LEU:O	2.22	0.40
26:K:50:VAL:HG11	26:K:66:LYS:CE	2.49	0.40
27:U:351:MET:HE1	27:U:354:LYS:NZ	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:U:560:MET:HE1	27:U:593:SER:HB2	2.03	0.40
27:U:650:TYR:CD1	27:U:650:TYR:C	2.99	0.40
27:U:773:PHE:N	27:U:774:PRO:CD	2.83	0.40
28:e:18:GLU:H	28:e:18:GLU:CD	2.22	0.40
28:e:48:VAL:O	28:e:48:VAL:HG13	2.21	0.40
1:C:254:ILE:HA	1:C:269:VAL:HG22	2.02	0.40
2:D:380:GLN:OE1	24:E:165:ILE:HB	2.22	0.40
2:D:388:ARG:CZ	2:D:388:ARG:HB2	2.50	0.40
3:G:132:ARG:HB2	8:M:12:SER:HA	2.02	0.40
5:I:65:ILE:HD13	5:I:75:SER:CB	2.51	0.40
6:J:16:LEU:O	6:J:20:GLU:HG3	2.21	0.40
7:L:144:ILE:HD13	7:L:144:ILE:HA	1.86	0.40
8:M:33:SER:CB	8:M:79:GLY:CA	2.99	0.40
8:M:164:ALA:CB	8:M:172:ALA:CB	2.99	0.40
8:M:170:GLN:O	8:M:174:THR:HG23	2.20	0.40
9:V:129:ASP:O	9:V:133:PRO:HG3	2.21	0.40
9:V:213:TYR:CD1	9:V:213:TYR:N	2.89	0.40
9:V:303:SER:HA	9:V:339:LEU:CD2	2.51	0.40
9:V:348:PHE:CD1	9:V:348:PHE:N	2.89	0.40
10:W:60:MET:HA	10:W:63:THR:OG1	2.21	0.40
10:W:177:MET:HG3	10:W:181:GLU:OE1	2.21	0.40
10:W:267:LEU:C	10:W:270:VAL:HG12	2.45	0.40
10:W:407:ASP:OD2	11:X:344:ARG:HD3	2.22	0.40
11:X:380:GLN:CB	12:Y:314:LEU:HA	2.49	0.40
11:X:420:LYS:HE3	16:c:264:LYS:NZ	2.36	0.40
13:Z:93:GLY:HA3	13:Z:120:VAL:O	2.21	0.40
13:Z:120:VAL:O	13:Z:120:VAL:HG13	2.21	0.40
13:Z:205:LEU:HD23	13:Z:205:LEU:HA	1.79	0.40
13:Z:252:LYS:HE2	13:Z:252:LYS:HA	2.03	0.40
14:a:162:TYR:HB3	14:a:168:ASN:HD22	1.86	0.40
14:a:251:LEU:HA	14:a:254:ALA:HB3	2.03	0.40
14:a:293:PHE:CD1	14:a:329:LYS:HB3	2.56	0.40
15:b:100:ARG:NH1	15:b:107:MET:SD	2.95	0.40
15:b:150:THR:CG2	15:b:152:LYS:HG2	2.51	0.40
16:c:177:THR:HB	27:U:773:PHE:H	1.86	0.40
18:f:217:LEU:CD2	18:f:229:VAL:CG2	2.96	0.40
18:f:432:TYR:O	18:f:434:TYR:N	2.53	0.40
18:f:560:LEU:HD12	18:f:801:VAL:CG2	2.51	0.40
18:f:613:LEU:CD1	23:B:74:MET:HE3	2.51	0.40
19:g:163:GLU:O	19:g:167:LYS:HG3	2.21	0.40
20:u:165:LEU:HD12	20:u:165:LEU:C	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:176:ASP:OD1	22:A:357:ILE:CG2	2.70	0.40
23:B:293:LYS:HE3	23:B:293:LYS:HB2	1.67	0.40
23:B:366:GLN:HA	23:B:369:THR:HG23	2.03	0.40
24:E:98:VAL:CG2	24:E:107:ILE:HG12	2.49	0.40
24:E:100:LEU:HA	24:E:107:ILE:HA	2.03	0.40
24:E:364:GLN:O	24:E:365:GLU:C	2.64	0.40
25:F:93:VAL:HG23	25:F:151:VAL:HG22	2.02	0.40
25:F:185:TYR:HD1	25:F:239:ALA:HB1	1.82	0.40
25:F:224:LEU:HD12	25:F:225:MET:N	2.36	0.40
27:U:151:ILE:HD13	27:U:163:PHE:CD1	2.57	0.40
27:U:518:LEU:HD23	27:U:554:LEU:HD13	2.02	0.40
27:U:602:LEU:HD11	27:U:621:SER:CB	2.50	0.40
27:U:615:ARG:O	27:U:618:ALA:HB3	2.21	0.40
1:C:69:GLN:HB2	1:C:118:ASN:CB	2.51	0.40
1:C:145:ASP:OD1	1:C:145:ASP:N	2.52	0.40
1:C:165:ILE:HD11	1:C:292:ILE:CD1	2.52	0.40
1:C:267:SER:O	1:C:271:ARG:NH1	2.53	0.40
3:G:102:LYS:HG3	3:G:107:TYR:C	2.46	0.40
4:H:48:THR:HG22	4:H:65:VAL:HG23	2.03	0.40
6:J:104:VAL:HG12	6:J:145:TYR:CD2	2.57	0.40
6:J:211:MET:HE3	6:J:217:LEU:HD12	2.03	0.40
7:L:19:ILE:CD1	8:M:129:ARG:NE	2.84	0.40
7:L:38:LEU:HD23	7:L:38:LEU:H	1.86	0.40
9:V:213:TYR:HD1	9:V:213:TYR:N	2.20	0.40
9:V:228:ARG:HB2	9:V:257:ASN:HD21	1.86	0.40
9:V:363:LEU:O	9:V:366:ALA:N	2.55	0.40
9:V:442:ILE:HD12	9:V:451:ILE:HG13	2.03	0.40
10:W:23:THR:CA	10:W:26:GLN:HG2	2.45	0.40
10:W:77:ALA:O	10:W:78:LYS:HB2	2.20	0.40
10:W:172:GLU:OE2	10:W:186:ILE:HD11	2.20	0.40
10:W:245:LYS:HG3	10:W:286:LEU:HD11	2.03	0.40
10:W:377:ARG:HA	10:W:377:ARG:HD2	1.60	0.40
11:X:386:ILE:N	11:X:386:ILE:HD13	2.35	0.40
11:X:414:LEU:HA	11:X:414:LEU:HD23	1.80	0.40
12:Y:59:LYS:HG2	12:Y:60:SER:N	2.36	0.40
14:a:80:ILE:C	14:a:83:VAL:HB	2.46	0.40
14:a:102:GLU:HA	14:a:105:LYS:HG3	2.02	0.40
14:a:226:ARG:HB3	14:a:226:ARG:CZ	2.52	0.40
15:b:60:VAL:O	15:b:62:THR:N	2.55	0.40
15:b:130:ARG:HD2	15:b:134:GLU:CD	2.46	0.40
15:b:142:ASN:OD1	15:b:142:ASN:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c:84:VAL:HG11	20:u:280:ARG:HB2	2.02	0.40
16:c:190:GLN:OE1	16:c:190:GLN:N	2.54	0.40
17:d:136:LEU:HD22	17:d:140:GLN:HE22	1.85	0.40
17:d:145:ARG:HH22	17:d:185:SER:N	2.19	0.40
17:d:241:TYR:HB3	17:d:271:ILE:HD11	2.04	0.40
18:f:237:VAL:CG1	18:f:249:LEU:HD23	2.51	0.40
18:f:266:LEU:CD2	18:f:294:MET:HA	2.51	0.40
18:f:371:ASN:O	18:f:374:SER:HB2	2.22	0.40
18:f:599:ALA:HB3	18:f:600:TYR:CD1	2.57	0.40
18:f:620:PHE:CE2	18:f:647:GLY:HA2	2.56	0.40
18:f:723:TYR:O	18:f:761:MET:HE1	2.21	0.40
18:f:771:LEU:CD1	18:f:778:LEU:HD21	2.46	0.40
19:g:90:PRO:HG2	19:g:157:GLU:CA	2.52	0.40
19:g:100:LEU:HD22	19:g:100:LEU:N	2.29	0.40
19:g:105:LEU:O	19:g:143:GLU:HG3	2.20	0.40
19:g:107:ILE:HD11	19:g:115:LYS:HB3	2.03	0.40
19:g:165:ALA:HA	19:g:169:PHE:N	2.36	0.40
22:A:35:THR:CG2	22:A:36:TYR:N	2.84	0.40
22:A:278:ASP:HB2	23:B:310:LEU:HD23	1.99	0.40
23:B:176:VAL:HB	23:B:247:PHE:O	2.21	0.40
24:E:40:TYR:CZ	25:F:72:LYS:HB3	2.57	0.40
24:E:54:GLY:O	24:E:102:MET:HE2	2.21	0.40
25:F:371:ARG:HG3	25:F:371:ARG:H	1.69	0.40
26:K:162:PHE:O	26:K:162:PHE:CG	2.74	0.40
27:U:103:LYS:O	27:U:106:ASP:N	2.55	0.40
27:U:469:SER:CB	27:U:471:ASP:OD2	2.69	0.40
27:U:489:ALA:HA	27:U:519:VAL:O	2.22	0.40
27:U:606:ALA:HB2	27:U:618:ALA:HB1	2.02	0.40
1:C:49:ARG:NH1	2:D:60:TYR:OH	2.54	0.40
1:C:191:PRO:HG2	1:C:319:PRO:HD3	2.04	0.40
1:C:311:ILE:O	1:C:311:ILE:HG22	2.20	0.40
2:D:201:GLY:HA2	2:D:307:VAL:O	2.22	0.40
2:D:217:LYS:HA	24:E:267:PHE:CE2	2.55	0.40
2:D:370:ILE:HD12	2:D:375:ILE:CG1	2.52	0.40
3:G:211:LYS:HE2	3:G:213:SER:H	1.87	0.40
4:H:63:HIS:HB3	4:H:220:ARG:NE	2.36	0.40
4:H:210:VAL:O	4:H:221:LEU:HG	2.20	0.40
5:I:17:ARG:CZ	5:I:19:TYR:HE1	2.34	0.40
5:I:229:LYS:O	5:I:232:GLU:HG2	2.22	0.40
6:J:35:VAL:HG22	6:J:191:VAL:CG2	2.51	0.40
6:J:43:LEU:HD23	6:J:43:LEU:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:45:VAL:CG1	6:J:61:LYS:HD2	2.50	0.40
6:J:185:ASP:HA	6:J:188:ILE:HD12	2.03	0.40
7:L:72:ILE:CD1	7:L:74:ILE:HG23	2.51	0.40
7:L:83:LEU:CD1	26:K:125:GLU:HB3	2.50	0.40
8:M:27:MET:HA	8:M:153:PRO:HG2	2.04	0.40
8:M:175:GLU:HB3	8:M:196:ILE:CD1	2.51	0.40
8:M:232:ARG:CZ	8:M:232:ARG:HB2	2.51	0.40
9:V:93:PHE:HA	9:V:96:ARG:NH2	2.33	0.40
9:V:231:LEU:HB2	9:V:254:LEU:HD13	2.03	0.40
9:V:403:ILE:CG1	9:V:428:LEU:HD21	2.51	0.40
10:W:40:LEU:HD12	10:W:40:LEU:HA	1.78	0.40
10:W:272:LEU:O	10:W:275:ILE:HB	2.21	0.40
10:W:307:LYS:HG3	10:W:308:LEU:N	2.36	0.40
10:W:374:THR:HB	10:W:376:LYS:NZ	2.37	0.40
11:X:167:VAL:CG1	11:X:210:LEU:HD11	2.52	0.40
11:X:168:GLU:O	11:X:172:LEU:HD23	2.22	0.40
11:X:339:ILE:CG2	11:X:339:ILE:O	2.70	0.40
13:Z:94:TRP:O	13:Z:121:LEU:HA	2.21	0.40
13:Z:185:GLY:O	13:Z:189:GLN:HB2	2.21	0.40
13:Z:212:LEU:HD11	14:a:346:ILE:CD1	2.51	0.40
13:Z:228:TYR:HD1	13:Z:229:GLN:N	2.20	0.40
14:a:112:ILE:HA	14:a:115:LYS:CB	2.52	0.40
14:a:116:THR:C	14:a:120:ALA:H	2.12	0.40
14:a:122:LYS:HE2	14:a:130:VAL:CG1	2.51	0.40
15:b:24:THR:CG2	15:b:25:ARG:N	2.85	0.40
15:b:51:LEU:O	15:b:51:LEU:HD12	2.22	0.40
15:b:73:SER:HB2	25:F:61:ARG:HH21	1.87	0.40
15:b:107:MET:HG3	15:b:136:VAL:HG22	2.04	0.40
17:d:120:LYS:O	17:d:123:LEU:HB2	2.22	0.40
17:d:223:ASN:OD1	17:d:226:ILE:HG13	2.22	0.40
17:d:251:ILE:O	17:d:251:ILE:CG1	2.70	0.40
18:f:114:ALA:C	18:f:116:GLY:H	2.29	0.40
18:f:270:LEU:CD1	18:f:787:LEU:HD11	2.47	0.40
18:f:471:LEU:H	18:f:471:LEU:HD23	1.86	0.40
19:g:148:ALA:N	19:g:151:VAL:HG21	2.35	0.40
22:A:240:VAL:HB	22:A:274:PHE:HA	2.04	0.40
23:B:272:ARG:O	23:B:276:GLU:HB2	2.22	0.40
23:B:292:THR:O	23:B:309:MET:CE	2.69	0.40
24:E:153:LEU:HD13	24:E:191:LEU:HD23	2.02	0.40
24:E:280:ASN:OD1	24:E:280:ASN:C	2.64	0.40
24:E:363:VAL:CG1	24:E:365:GLU:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:F:134:LEU:HD12	25:F:160:ILE:HG12	2.02	0.40
26:K:67:ILE:HA	26:K:76:CYS:O	2.22	0.40
27:U:222:PHE:CD1	27:U:222:PHE:N	2.89	0.40
27:U:461:LEU:HD13	27:U:481:LEU:N	2.36	0.40
27:U:620:GLU:C	27:U:620:GLU:CD	2.89	0.40
2:D:81:ARG:CZ	2:D:81:ARG:HB2	2.50	0.40
2:D:257:ASN:OD1	2:D:257:ASN:N	2.53	0.40
2:D:354:LEU:HD23	2:D:354:LEU:HA	1.86	0.40
3:G:46:ASP:O	3:G:222:VAL:HG23	2.22	0.40
3:G:93:ARG:NH2	3:G:121:ILE:HG13	2.37	0.40
3:G:199:ILE:HD11	3:G:215:ILE:HD13	2.04	0.40
4:H:127:VAL:HG23	4:H:127:VAL:O	2.21	0.40
4:H:157:ALA:HB3	5:I:57:ASP:O	2.21	0.40
5:I:101:TYR:N	5:I:101:TYR:HD1	2.19	0.40
5:I:132:VAL:HG13	5:I:132:VAL:O	2.22	0.40
7:L:87:PHE:CD2	7:L:112:ILE:HD12	2.57	0.40
7:L:98:VAL:HG12	7:L:99:PHE:HD1	1.86	0.40
7:L:105:VAL:HG13	7:L:134:ILE:CG2	2.51	0.40
8:M:234:GLU:O	8:M:238:TYR:N	2.40	0.40
9:V:237:THR:C	9:V:241:ARG:HH12	2.29	0.40
9:V:295:ILE:HD13	9:V:295:ILE:HA	1.89	0.40
10:W:216:GLU:H	10:W:219:THR:CG2	2.33	0.40
10:W:373:ILE:HA	14:a:326:GLU:CB	2.44	0.40
11:X:88:LEU:O	11:X:92:LEU:N	2.35	0.40
11:X:248:ILE:HD12	11:X:248:ILE:HA	1.85	0.40
12:Y:95:LEU:HB3	12:Y:99:GLU:CG	2.52	0.40
13:Z:63:LYS:C	13:Z:65:ASP:H	2.30	0.40
13:Z:126:VAL:HG13	13:Z:127:LYS:N	2.37	0.40
13:Z:170:VAL:CG1	13:Z:171:GLY:N	2.85	0.40
13:Z:222:ILE:CG2	13:Z:227:ILE:HD13	2.52	0.40
14:a:65:SER:HA	14:a:68:GLU:OE1	2.21	0.40
14:a:111:VAL:HG22	14:a:115:LYS:CE	2.51	0.40
14:a:157:ASP:O	14:a:161:LYS:HG2	2.21	0.40
14:a:216:LEU:CD1	14:a:237:LEU:HB3	2.48	0.40
14:a:285:PRO:HG2	14:a:288:HIS:HB2	2.03	0.40
14:a:296:ILE:CG2	14:a:307:VAL:HG23	2.46	0.40
15:b:3:LEU:HD23	15:b:44:ASN:ND2	2.37	0.40
15:b:16:MET:HE3	15:b:26:LEU:HD12	2.03	0.40
15:b:51:LEU:HD11	15:b:61:LEU:HB2	2.02	0.40
16:c:92:GLN:OE1	16:c:96:LEU:HD12	2.21	0.40
17:d:207:GLU:O	17:d:211:GLU:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:d:323:GLN:C	17:d:324:LYS:HG3	2.47	0.40
18:f:78:LEU:O	18:f:82:ILE:HB	2.20	0.40
18:f:131:MET:HE1	22:A:36:TYR:CD1	2.56	0.40
18:f:369:ARG:O	18:f:372:LEU:N	2.55	0.40
18:f:425:GLY:O	18:f:429:ILE:N	2.54	0.40
18:f:465:LEU:CD1	19:g:173:GLU:HG2	2.51	0.40
18:f:473:ASN:OD1	18:f:509:LYS:HE3	2.22	0.40
18:f:539:LEU:HG	18:f:540:GLN:OE1	2.21	0.40
18:f:661:ALA:HB2	23:B:71:TYR:OH	2.22	0.40
18:f:670:MET:HE2	18:f:670:MET:HB2	1.94	0.40
18:f:698:SER:OG	18:f:703:ARG:NH2	2.54	0.40
18:f:830:LEU:HD13	18:f:874:LEU:HD11	2.04	0.40
19:g:145:GLN:HG3	19:g:147:VAL:CG2	2.47	0.40
23:B:103:ARG:HE	23:B:160:ILE:HG23	1.86	0.40
23:B:114:GLU:HG3	23:B:116:ILE:CD1	2.52	0.40
24:E:143:ARG:HB3	24:E:143:ARG:NH1	2.37	0.40
24:E:182:LEU:HD12	24:E:182:LEU:C	2.47	0.40
24:E:237:ALA:HB3	24:E:238:ILE:HD12	2.04	0.40
25:F:341:ALA:O	25:F:347:ARG:CD	2.65	0.40
26:K:190:THR:HG23	26:K:192:LYS:H	1.86	0.40
27:U:14:GLU:HB2	27:U:19:LEU:CD2	2.48	0.40
27:U:265:ILE:HG21	27:U:326:ILE:HG23	1.94	0.40
27:U:583:MET:HE3	27:U:602:LEU:CD2	2.50	0.40
27:U:772:TRP:CD1	27:U:774:PRO:HD2	2.56	0.40
27:U:792:ASN:ND2	27:U:796:LYS:HG2	2.36	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	C	384/406 (95%)	349 (91%)	32 (8%)	3 (1%)	16 51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	D	378/418 (90%)	330 (87%)	44 (12%)	4 (1%)	12	44
3	G	237/246 (96%)	217 (92%)	17 (7%)	3 (1%)	10	41
4	H	230/234 (98%)	212 (92%)	18 (8%)	0	100	100
5	I	246/261 (94%)	232 (94%)	13 (5%)	1 (0%)	30	64
6	J	237/248 (96%)	213 (90%)	24 (10%)	0	100	100
7	L	236/263 (90%)	227 (96%)	9 (4%)	0	100	100
8	M	238/255 (93%)	219 (92%)	19 (8%)	0	100	100
9	V	441/534 (83%)	415 (94%)	24 (5%)	2 (0%)	25	59
10	W	436/456 (96%)	415 (95%)	20 (5%)	1 (0%)	44	76
11	X	376/422 (89%)	354 (94%)	22 (6%)	0	100	100
12	Y	378/389 (97%)	362 (96%)	16 (4%)	0	100	100
13	Z	284/324 (88%)	252 (89%)	29 (10%)	3 (1%)	12	44
14	a	371/376 (99%)	331 (89%)	40 (11%)	0	100	100
15	b	189/377 (50%)	158 (84%)	31 (16%)	0	100	100
16	c	287/424 (68%)	239 (83%)	45 (16%)	3 (1%)	13	46
17	d	267/350 (76%)	246 (92%)	20 (8%)	1 (0%)	30	64
18	f	824/908 (91%)	757 (92%)	66 (8%)	1 (0%)	48	79
19	g	93/601 (16%)	68 (73%)	25 (27%)	0	100	100
20	u	170/289 (59%)	162 (95%)	6 (4%)	2 (1%)	11	43
22	A	403/433 (93%)	373 (93%)	28 (7%)	2 (0%)	25	59
23	B	392/440 (89%)	351 (90%)	40 (10%)	1 (0%)	37	69
24	E	339/389 (87%)	297 (88%)	33 (10%)	9 (3%)	4	28
25	F	353/439 (80%)	307 (87%)	45 (13%)	1 (0%)	37	69
26	K	224/241 (93%)	209 (93%)	15 (7%)	0	100	100
27	U	834/953 (88%)	731 (88%)	98 (12%)	5 (1%)	22	55
28	e	37/70 (53%)	34 (92%)	3 (8%)	0	100	100
All	All	8884/10746 (83%)	8060 (91%)	782 (9%)	42 (0%)	27	59

All (42) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	82	LYS
2	D	413	GLU

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Mol	Chain	Res	Type
3	G	10	ASP
3	G	11	ARG
3	G	184	LYS
10	W	41	GLN
13	Z	146	ASP
13	Z	226	ILE
16	c	116	PRO
16	c	145	VAL
16	c	285	GLU
18	f	433	LEU
22	A	367	ASP
23	B	278	ALA
24	E	122	MET
24	E	267	PHE
24	E	268	ASP
24	E	328	TYR
24	E	357	ALA
27	U	42	VAL
1	C	81	ASP
2	D	219	VAL
9	V	318	GLN
17	d	332	SER
24	E	295	LEU
27	U	172	ASP
27	U	242	LEU
27	U	812	ALA
1	C	355	SER
2	D	324	PRO
2	D	411	GLU
5	I	107	CYS
9	V	494	MET
22	A	116	LYS
24	E	125	GLU
24	E	304	PRO
20	u	119	ILE
20	u	279	LYS
13	Z	177	ARG
24	E	297	ARG
25	F	203	VAL
27	U	815	ALA

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 PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	338/352 (96%)	322 (95%)	16 (5%)	22	52
2	D	333/366 (91%)	309 (93%)	24 (7%)	12	38
3	G	192/210 (91%)	184 (96%)	8 (4%)	25	54
4	H	190/191 (100%)	182 (96%)	8 (4%)	25	54
5	I	191/221 (86%)	179 (94%)	12 (6%)	15	43
6	J	158/211 (75%)	151 (96%)	7 (4%)	24	54
7	L	198/224 (88%)	193 (98%)	5 (2%)	42	68
8	M	192/212 (91%)	179 (93%)	13 (7%)	13	40
9	V	391/460 (85%)	376 (96%)	15 (4%)	28	57
10	W	403/416 (97%)	386 (96%)	17 (4%)	25	54
11	X	325/362 (90%)	313 (96%)	12 (4%)	29	58
12	Y	335/344 (97%)	324 (97%)	11 (3%)	33	61
13	Z	257/295 (87%)	246 (96%)	11 (4%)	25	54
14	a	333/336 (99%)	314 (94%)	19 (6%)	17	45
15	b	167/312 (54%)	154 (92%)	13 (8%)	10	34
16	c	252/359 (70%)	238 (94%)	14 (6%)	17	45
17	d	237/294 (81%)	232 (98%)	5 (2%)	48	71
18	f	702/763 (92%)	685 (98%)	17 (2%)	44	68
19	g	85/527 (16%)	82 (96%)	3 (4%)	31	60
20	u	156/253 (62%)	146 (94%)	10 (6%)	14	42
22	A	350/372 (94%)	329 (94%)	21 (6%)	16	43
23	B	348/385 (90%)	328 (94%)	20 (6%)	17	45
24	E	298/341 (87%)	226 (76%)	72 (24%)	0	3
25	F	304/379 (80%)	269 (88%)	35 (12%)	4	22
26	K	189/204 (93%)	182 (96%)	7 (4%)	29	58
27	U	718/816 (88%)	684 (95%)	34 (5%)	22	52

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
28	e	37/63 (59%)	35 (95%)	2 (5%)	18	46
All	All	7679/9268 (83%)	7248 (94%)	431 (6%)	20	45

All (431) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	23	TYR
1	C	24	TYR
1	C	38	LYS
1	C	41	ASN
1	C	105	ILE
1	C	119	ASP
1	C	206	HIS
1	C	254	ILE
1	C	269	VAL
1	C	293	MET
1	C	295	THR
1	C	333	SER
1	C	339	THR
1	C	346	LYS
1	C	350	LEU
1	C	362	VAL
2	D	54	LEU
2	D	60	TYR
2	D	76	GLN
2	D	93	LEU
2	D	105	SER
2	D	110	ASN
2	D	155	THR
2	D	164	TYR
2	D	166	ASP
2	D	167	ILE
2	D	170	MET
2	D	171	ASP
2	D	224	THR
2	D	231	VAL
2	D	238	LYS
2	D	253	LEU
2	D	272	THR
2	D	313	ARG
2	D	324	PRO
2	D	347	THR

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Mol	Chain	Res	Type
2	D	370	ILE
2	D	371	SER
2	D	374	ASP
2	D	414	HIS
3	G	14	THR
3	G	87	SER
3	G	115	CYS
3	G	131	MET
3	G	166	THR
3	G	171	LYS
3	G	215	ILE
3	G	244	GLU
4	H	3	GLU
4	H	4	ARG
4	H	16	SER
4	H	39	LYS
4	H	48	THR
4	H	87	VAL
4	H	89	ARG
4	H	219	ARG
5	I	9	THR
5	I	10	THR
5	I	19	TYR
5	I	38	LEU
5	I	80	THR
5	I	93	ILE
5	I	99	LEU
5	I	153	SER
5	I	163	CYS
5	I	164	ILE
5	I	174	MET
5	I	206	LEU
6	J	8	THR
6	J	26	VAL
6	J	55	ASP
6	J	84	ILE
6	J	94	HIS
6	J	108	THR
6	J	144	LEU
7	L	11	THR
7	L	53	GLN
7	L	114	SER

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Mol	Chain	Res	Type
7	L	170	THR
7	L	212	ILE
8	M	49	VAL
8	M	50	GLU
8	M	66	LEU
8	M	75	MET
8	M	87	LEU
8	M	115	VAL
8	M	123	THR
8	M	154	SER
8	M	158	TYR
8	M	169	ARG
8	M	181	MET
8	M	199	ILE
8	M	227	VAL
9	V	61	GLU
9	V	65	ARG
9	V	72	LEU
9	V	89	LYS
9	V	94	VAL
9	V	223	LYS
9	V	285	TRP
9	V	310	THR
9	V	353	LEU
9	V	403	ILE
9	V	410	ILE
9	V	425	LYS
9	V	464	ILE
9	V	478	GLN
9	V	490	SER
10	W	73	MET
10	W	139	GLU
10	W	145	LEU
10	W	166	LEU
10	W	205	ILE
10	W	209	ILE
10	W	224	LEU
10	W	230	MET
10	W	243	ILE
10	W	259	GLU
10	W	265	GLN
10	W	288	HIS

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Mol	Chain	Res	Type
10	W	338	THR
10	W	352	LYS
10	W	377	ARG
10	W	388	GLU
10	W	402	ILE
11	X	51	LEU
11	X	89	VAL
11	X	129	LEU
11	X	136	LEU
11	X	169	VAL
11	X	195	THR
11	X	237	GLU
11	X	261	LEU
11	X	265	GLU
11	X	284	THR
11	X	310	ARG
11	X	373	LYS
12	Y	30	GLU
12	Y	104	MET
12	Y	109	GLU
12	Y	121	LEU
12	Y	141	VAL
12	Y	143	TYR
12	Y	181	LYS
12	Y	191	ILE
12	Y	221	THR
12	Y	325	VAL
12	Y	378	ASN
13	Z	8	LYS
13	Z	15	VAL
13	Z	53	SER
13	Z	106	ILE
13	Z	121	LEU
13	Z	130	ASP
13	Z	187	LEU
13	Z	195	VAL
13	Z	228	TYR
13	Z	233	VAL
13	Z	276	ILE
14	a	32	LYS
14	a	69	HIS
14	a	112	ILE

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Mol	Chain	Res	Type
14	a	127	ASP
14	a	143	ASN
14	a	158	LEU
14	a	211	PHE
14	a	212	ASN
14	a	216	LEU
14	a	252	LYS
14	a	274	LEU
14	a	292	THR
14	a	320	VAL
14	a	327	VAL
14	a	328	ASP
14	a	346	ILE
14	a	358	THR
14	a	362	SER
14	a	374	ILE
15	b	33	VAL
15	b	34	ASN
15	b	48	ASN
15	b	64	LEU
15	b	75	LEU
15	b	78	VAL
15	b	90	ILE
15	b	97	LEU
15	b	113	VAL
15	b	134	GLU
15	b	135	LYS
15	b	166	THR
15	b	181	ASP
16	c	51	MET
16	c	60	GLU
16	c	66	THR
16	c	69	VAL
16	c	88	ASP
16	c	115	HIS
16	c	129	THR
16	c	143	VAL
16	c	180	ASN
16	c	192	LEU
16	c	199	HIS
16	c	231	LEU
16	c	261	GLU

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Mol	Chain	Res	Type
16	c	284	LEU
17	d	140	GLN
17	d	188	MET
17	d	219	ASP
17	d	280	GLU
17	d	282	ILE
18	f	60	VAL
18	f	82	ILE
18	f	111	GLU
18	f	162	LEU
18	f	205	CYS
18	f	219	LYS
18	f	249	LEU
18	f	296	PHE
18	f	372	LEU
18	f	381	VAL
18	f	404	ASP
18	f	433	LEU
18	f	434	TYR
18	f	440	ILE
18	f	573	ILE
18	f	721	VAL
18	f	800	LEU
19	g	101	LEU
19	g	131	ILE
19	g	166	ARG
20	u	157	LEU
20	u	165	LEU
20	u	169	VAL
20	u	213	GLU
20	u	243	SER
20	u	245	THR
20	u	250	SER
20	u	263	PHE
20	u	268	THR
20	u	289	HIS
22	A	34	LYS
22	A	38	GLN
22	A	46	LYS
22	A	59	ILE
22	A	65	ILE
22	A	77	LEU

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Mol	Chain	Res	Type
22	A	95	VAL
22	A	123	VAL
22	A	145	ASN
22	A	171	ASP
22	A	184	ILE
22	A	207	GLU
22	A	233	THR
22	A	240	VAL
22	A	322	ASN
22	A	326	THR
22	A	332	MET
22	A	342	GLU
22	A	390	THR
22	A	403	ILE
22	A	431	THR
23	B	52	VAL
23	B	56	THR
23	B	57	GLN
23	B	72	LEU
23	B	86	LYS
23	B	177	GLU
23	B	203	LEU
23	B	250	VAL
23	B	255	LEU
23	B	256	ILE
23	B	290	ILE
23	B	309	MET
23	B	325	VAL
23	B	332	ASN
23	B	383	LEU
23	B	401	GLU
23	B	429	LYS
23	B	430	LYS
23	B	431	GLN
23	B	438	LEU
24	E	35	GLU
24	E	37	THR
24	E	38	LYS
24	E	42	LYS
24	E	47	LEU
24	E	53	VAL
24	E	56	ILE

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Mol	Chain	Res	Type
24	E	65	THR
24	E	75	ASN
24	E	81	VAL
24	E	85	ARG
24	E	88	ASP
24	E	100	LEU
24	E	103	THR
24	E	113	ARG
24	E	114	GLU
24	E	115	VAL
24	E	116	ASP
24	E	120	TYR
24	E	125	GLU
24	E	130	VAL
24	E	135	ILE
24	E	138	LEU
24	E	139	SER
24	E	190	GLN
24	E	193	CYS
24	E	194	ASN
24	E	196	LEU
24	E	198	VAL
24	E	201	SER
24	E	203	ILE
24	E	204	VAL
24	E	205	ASP
24	E	206	LYS
24	E	208	ILE
24	E	216	ARG
24	E	218	MET
24	E	223	ARG
24	E	224	ASP
24	E	229	ILE
24	E	245	GLU
24	E	268	ASP
24	E	272	ARG
24	E	277	MET
24	E	279	THR
24	E	285	LEU
24	E	286	ASP
24	E	297	ARG
24	E	298	LYS

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Mol	Chain	Res	Type
24	E	301	ILE
24	E	302	ASP
24	E	303	LEU
24	E	304	PRO
24	E	307	GLN
24	E	309	ARG
24	E	322	LYS
24	E	323	HIS
24	E	326	ILE
24	E	335	SER
24	E	339	ASN
24	E	343	LEU
24	E	344	ARG
24	E	352	MET
24	E	356	ARG
24	E	359	HIS
24	E	360	ASP
24	E	363	VAL
24	E	364	GLN
24	E	373	LYS
24	E	377	SER
24	E	378	LYS
24	E	379	LYS
25	F	59	VAL
25	F	61	ARG
25	F	62	VAL
25	F	66	LEU
25	F	71	ASP
25	F	74	LYS
25	F	75	GLU
25	F	76	ASN
25	F	77	SER
25	F	79	LYS
25	F	81	LYS
25	F	143	GLU
25	F	162	GLU
25	F	193	LYS
25	F	195	ILE
25	F	209	LYS
25	F	211	LYS
25	F	213	GLU
25	F	215	LEU

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Mol	Chain	Res	Type
25	F	217	ILE
25	F	218	GLN
25	F	221	LYS
25	F	233	LYS
25	F	250	LYS
25	F	276	LYS
25	F	295	ARG
25	F	309	THR
25	F	335	VAL
25	F	337	ILE
25	F	397	LYS
25	F	399	VAL
25	F	402	GLU
25	F	424	ILE
25	F	428	GLN
25	F	435	LEU
26	K	14	THR
26	K	36	THR
26	K	38	ILE
26	K	67	ILE
26	K	152	GLN
26	K	184	VAL
26	K	201	ILE
27	U	46	GLU
27	U	69	TYR
27	U	99	THR
27	U	112	CYS
27	U	124	LYS
27	U	127	ASP
27	U	147	TYR
27	U	151	ILE
27	U	177	LEU
27	U	204	ILE
27	U	208	LEU
27	U	219	CYS
27	U	233	LEU
27	U	236	LEU
27	U	244	MET
27	U	254	GLU
27	U	263	SER
27	U	364	VAL
27	U	365	CYS

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Mol	Chain	Res	Type
27	U	373	ASN
27	U	462	LEU
27	U	467	ASN
27	U	531	ASP
27	U	585	THR
27	U	586	VAL
27	U	602	LEU
27	U	633	CYS
27	U	675	MET
27	U	691	SER
27	U	717	ILE
27	U	786	THR
27	U	835	ILE
27	U	870	GLU
27	U	889	LEU
28	e	41	ASP
28	e	63	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (108) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	69	GLN
1	C	278	ASN
2	D	57	GLN
2	D	83	GLN
2	D	222	HIS
2	D	376	ASN
2	D	380	GLN
2	D	412	GLN
3	G	75	ASN
3	G	127	GLN
4	H	52	GLN
4	H	112	GLN
5	I	142	HIS
5	I	146	GLN
5	I	198	ASN
5	I	240	HIS
6	J	92	GLN
6	J	116	GLN
6	J	146	GLN
6	J	159	ASN
7	L	8	ASN

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Mol	Chain	Res	Type
7	L	53	GLN
7	L	59	HIS
8	M	147	GLN
9	V	177	ASN
9	V	232	HIS
9	V	247	GLN
9	V	257	ASN
9	V	282	ASN
10	W	189	GLN
10	W	440	ASN
11	X	44	GLN
11	X	48	GLN
11	X	127	GLN
11	X	380	GLN
11	X	406	ASN
12	Y	14	ASN
12	Y	280	GLN
14	a	12	GLN
14	a	168	ASN
14	a	305	ASN
15	b	99	HIS
15	b	101	GLN
15	b	142	ASN
15	b	161	ASN
16	c	44	HIS
16	c	101	GLN
16	c	197	ASN
16	c	241	ASN
16	c	256	ASN
16	c	295	ASN
17	d	127	ASN
17	d	190	GLN
17	d	195	ASN
17	d	202	GLN
17	d	234	GLN
17	d	338	GLN
18	f	198	HIS
18	f	325	GLN
18	f	329	ASN
18	f	355	ASN
18	f	387	GLN
18	f	614	HIS

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Mol	Chain	Res	Type
18	f	701	ASN
18	f	752	HIS
18	f	766	GLN
18	f	782	HIS
18	f	790	GLN
18	f	868	HIS
18	f	876	HIS
19	g	135	GLN
20	u	183	GLN
22	A	296	GLN
22	A	314	ASN
22	A	433	ASN
23	B	242	GLN
23	B	277	HIS
24	E	39	GLN
24	E	45	ASN
24	E	190	GLN
24	E	220	ASN
24	E	262	ASN
24	E	280	ASN
25	F	76	ASN
25	F	208	HIS
25	F	214	ASN
25	F	218	GLN
25	F	307	GLN
25	F	325	GLN
25	F	380	ASN
26	K	99	HIS
26	K	152	GLN
26	K	164	GLN
27	U	207	ASN
27	U	227	GLN
27	U	267	ASN
27	U	345	ASN
27	U	355	ASN
27	U	366	HIS
27	U	373	ASN
27	U	389	ASN
27	U	398	ASN
27	U	415	HIS
27	U	525	ASN
27	U	685	GLN

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Mol	Chain	Res	Type
27	U	697	GLN
27	U	708	GLN
27	U	749	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](#)

Of 12 ligands modelled in this entry, 6 are monoatomic - leaving 6 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
31	ADP	E	501	-	24,29,29	0.73	0	29,45,45	0.81	1 (3%)
29	ATP	A	501	30	28,33,33	0.81	1 (3%)	34,52,52	0.84	1 (2%)
31	ADP	D	501	30	24,29,29	0.74	0	29,45,45	0.77	1 (3%)
29	ATP	F	501	30	28,33,33	0.82	1 (3%)	34,52,52	0.78	1 (2%)
29	ATP	B	501	30	28,33,33	0.85	1 (3%)	34,52,52	0.77	2 (5%)
29	ATP	C	501	30	28,33,33	0.86	1 (3%)	34,52,52	0.83	1 (2%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the

Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.
'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
31	ADP	E	501	-	-	3/12/32/32	0/3/3/3
29	ATP	A	501	30	-	2/18/38/38	0/3/3/3
31	ADP	D	501	30	-	4/12/32/32	0/3/3/3
29	ATP	F	501	30	-	6/18/38/38	0/3/3/3
29	ATP	B	501	30	-	6/18/38/38	0/3/3/3
29	ATP	C	501	30	-	8/18/38/38	0/3/3/3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	C	501	ATP	C1'-N9	-2.55	1.43	1.49
29	F	501	ATP	C1'-N9	-2.41	1.44	1.49
29	A	501	ATP	C1'-N9	-2.18	1.44	1.49
29	B	501	ATP	PB-O3B	-2.06	1.57	1.59

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B	501	ATP	C4'-O4'-C1'	-2.69	107.46	109.92
29	C	501	ATP	C5-C6-N6	2.37	123.91	120.31
29	B	501	ATP	C5-C6-N6	2.31	123.83	120.31
29	A	501	ATP	C5-C6-N6	2.28	123.78	120.31
31	D	501	ADP	C5-C6-N6	2.25	123.75	120.31
31	E	501	ADP	C5-C6-N6	2.18	123.63	120.31
29	F	501	ATP	C5-C6-N6	2.14	123.57	120.31

There are no chirality outliers.

All (29) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
29	C	501	ATP	C5'-O5'-PA-O2A
29	C	501	ATP	C5'-O5'-PA-O3A
29	B	501	ATP	C5'-O5'-PA-O1A
29	B	501	ATP	C5'-O5'-PA-O2A
29	B	501	ATP	C5'-O5'-PA-O3A
29	B	501	ATP	O4'-C4'-C5'-O5'
29	F	501	ATP	C5'-O5'-PA-O1A
29	F	501	ATP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
29	F	501	ATP	C5'-O5'-PA-O3A
31	D	501	ADP	C5'-O5'-PA-O2A
31	D	501	ADP	C5'-O5'-PA-O3A
31	E	501	ADP	PA-O3A-PB-O3B
31	E	501	ADP	C5'-O5'-PA-O2A
31	E	501	ADP	C5'-O5'-PA-O3A
29	A	501	ATP	O4'-C4'-C5'-O5'
31	D	501	ADP	O4'-C4'-C5'-O5'
29	C	501	ATP	O4'-C4'-C5'-O5'
29	C	501	ATP	C3'-C4'-C5'-O5'
29	F	501	ATP	C3'-C4'-C5'-O5'
31	D	501	ADP	C3'-C4'-C5'-O5'
29	B	501	ATP	C3'-C4'-C5'-O5'
29	F	501	ATP	O4'-C4'-C5'-O5'
29	A	501	ATP	C3'-C4'-C5'-O5'
29	B	501	ATP	PB-O3B-PG-O3G
29	C	501	ATP	PB-O3A-PA-O2A
29	C	501	ATP	C5'-O5'-PA-O1A
29	C	501	ATP	C4'-C5'-O5'-PA
29	F	501	ATP	PB-O3B-PG-O1G
29	C	501	ATP	PB-O3A-PA-O1A

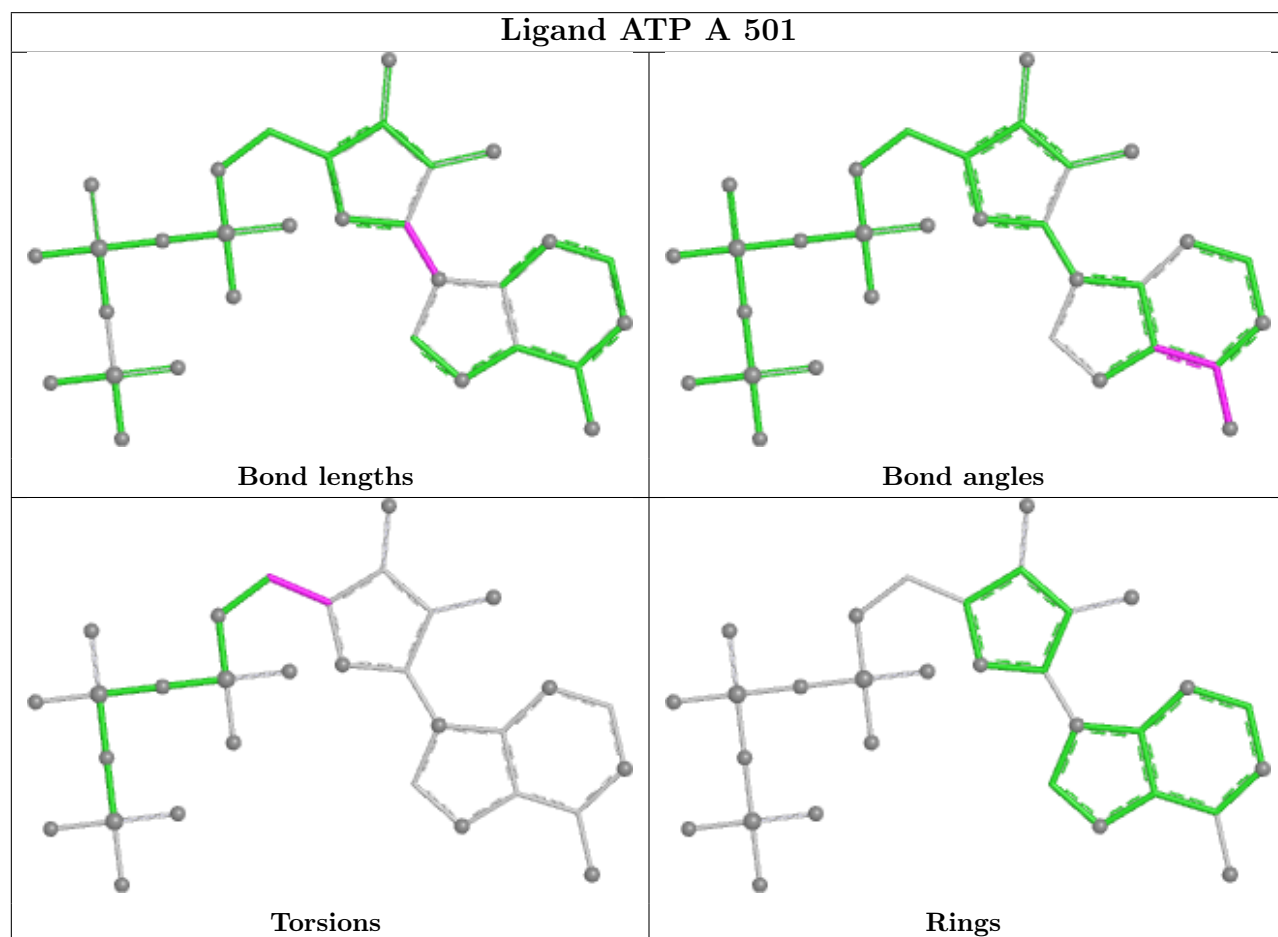
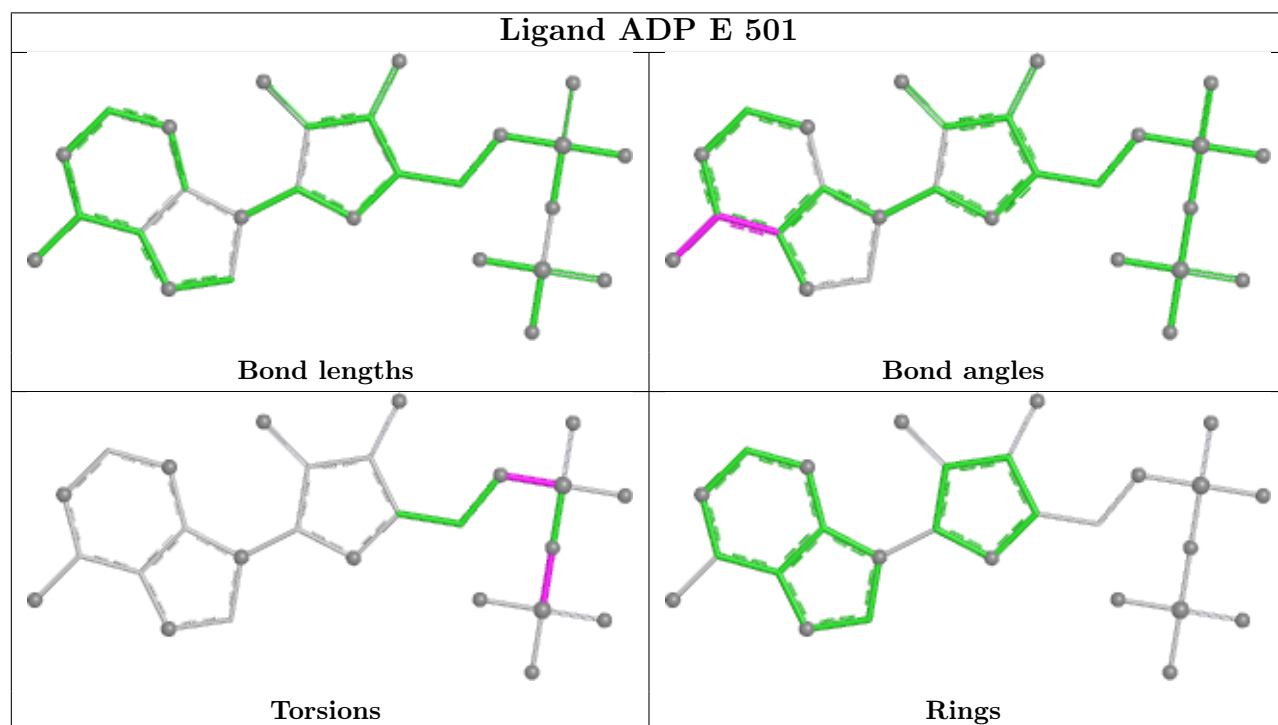
There are no ring outliers.

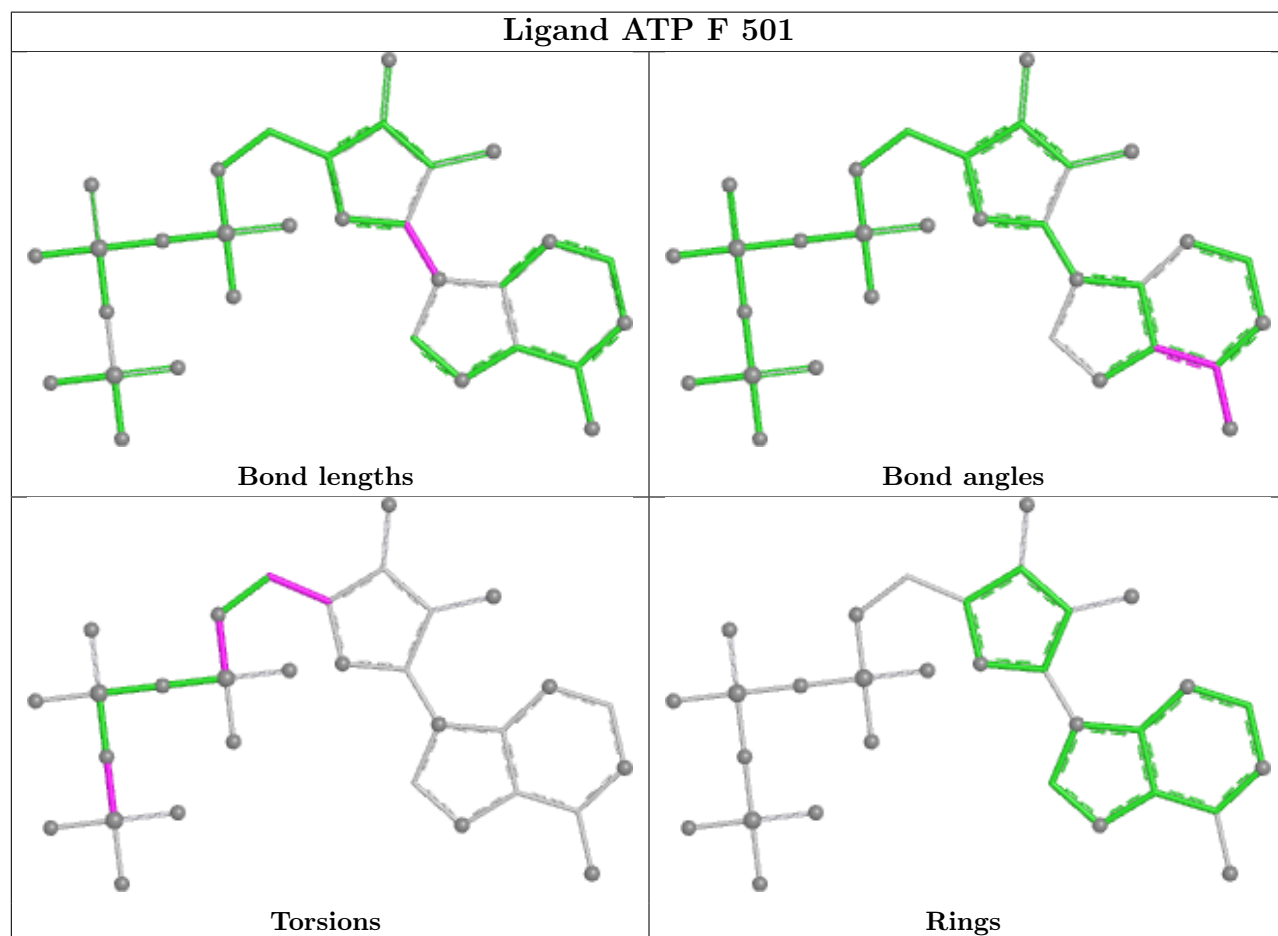
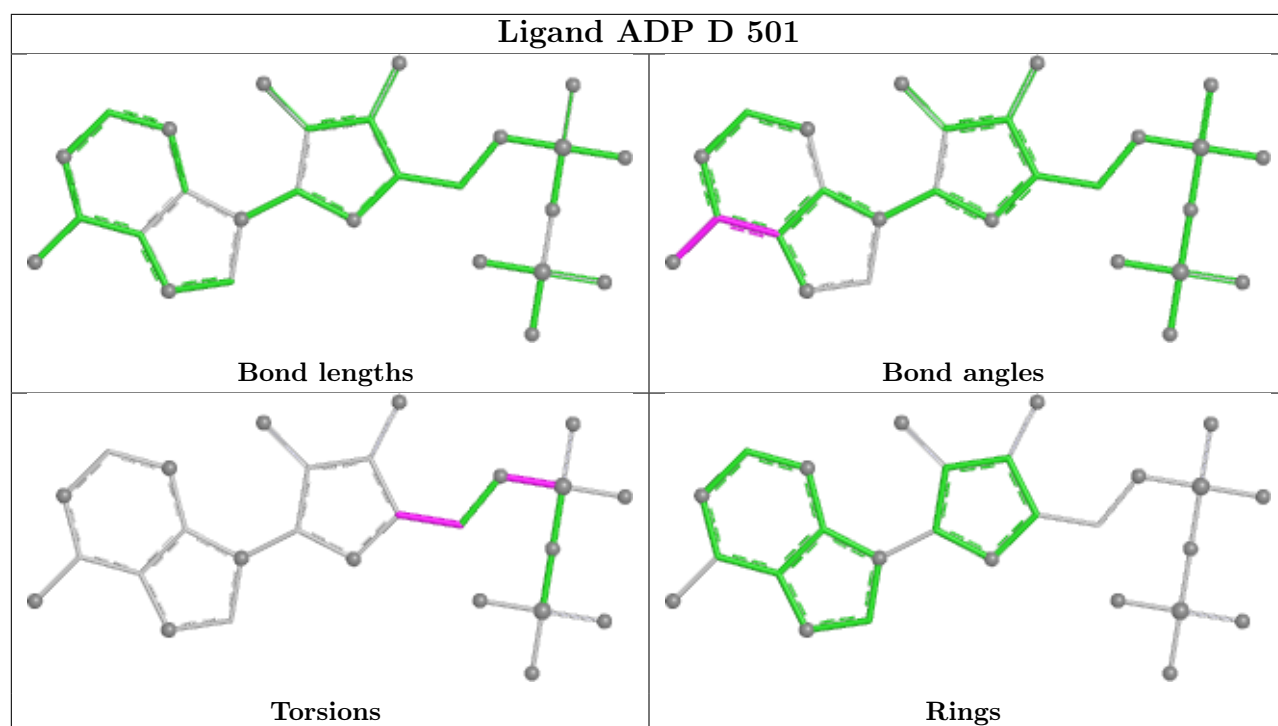
5 monomers are involved in 19 short contacts:

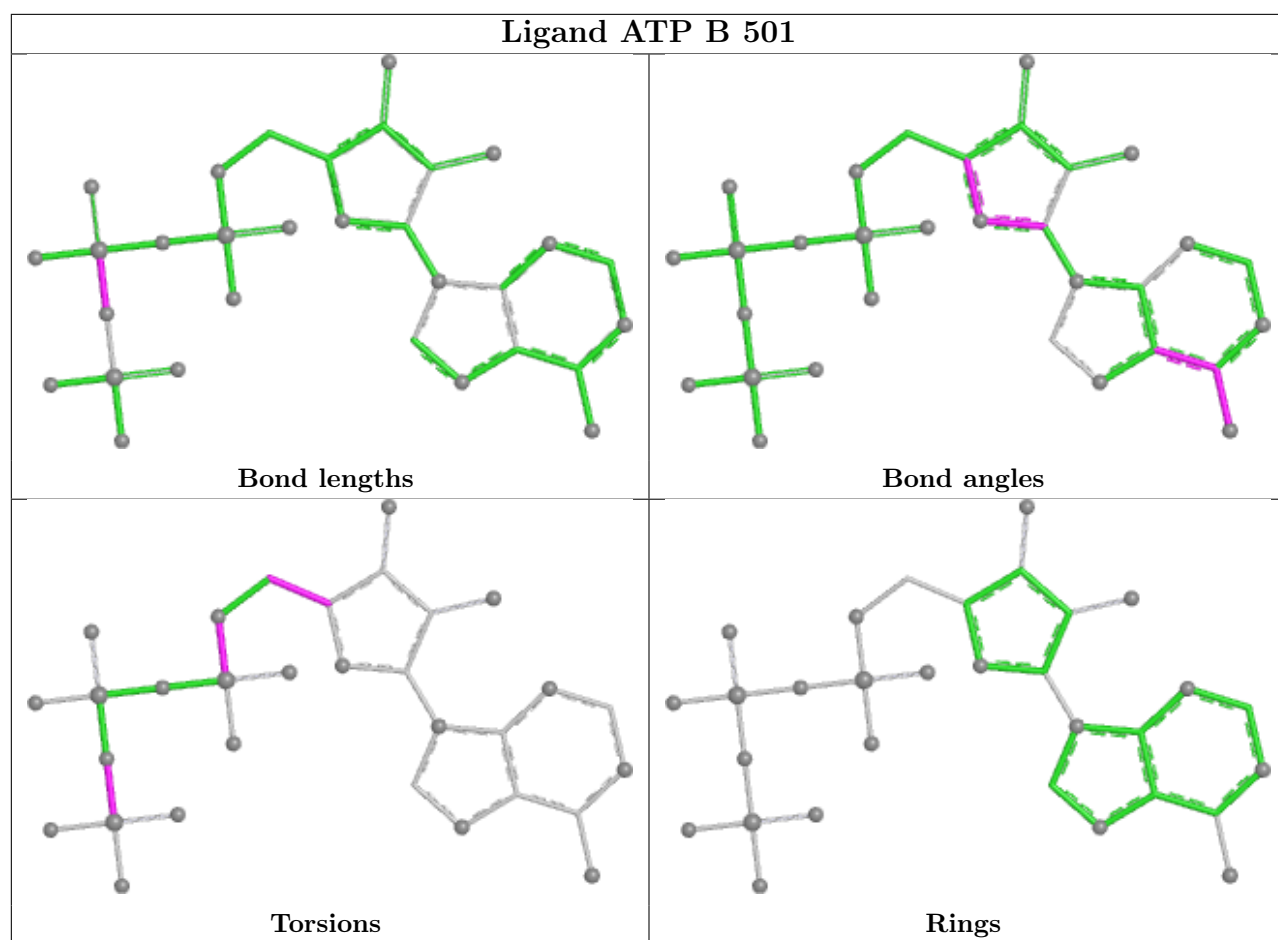
Mol	Chain	Res	Type	Clashes	Symm-Clashes
29	A	501	ATP	2	0
31	D	501	ADP	1	0
29	F	501	ATP	9	0
29	B	501	ATP	5	0
29	C	501	ATP	2	0

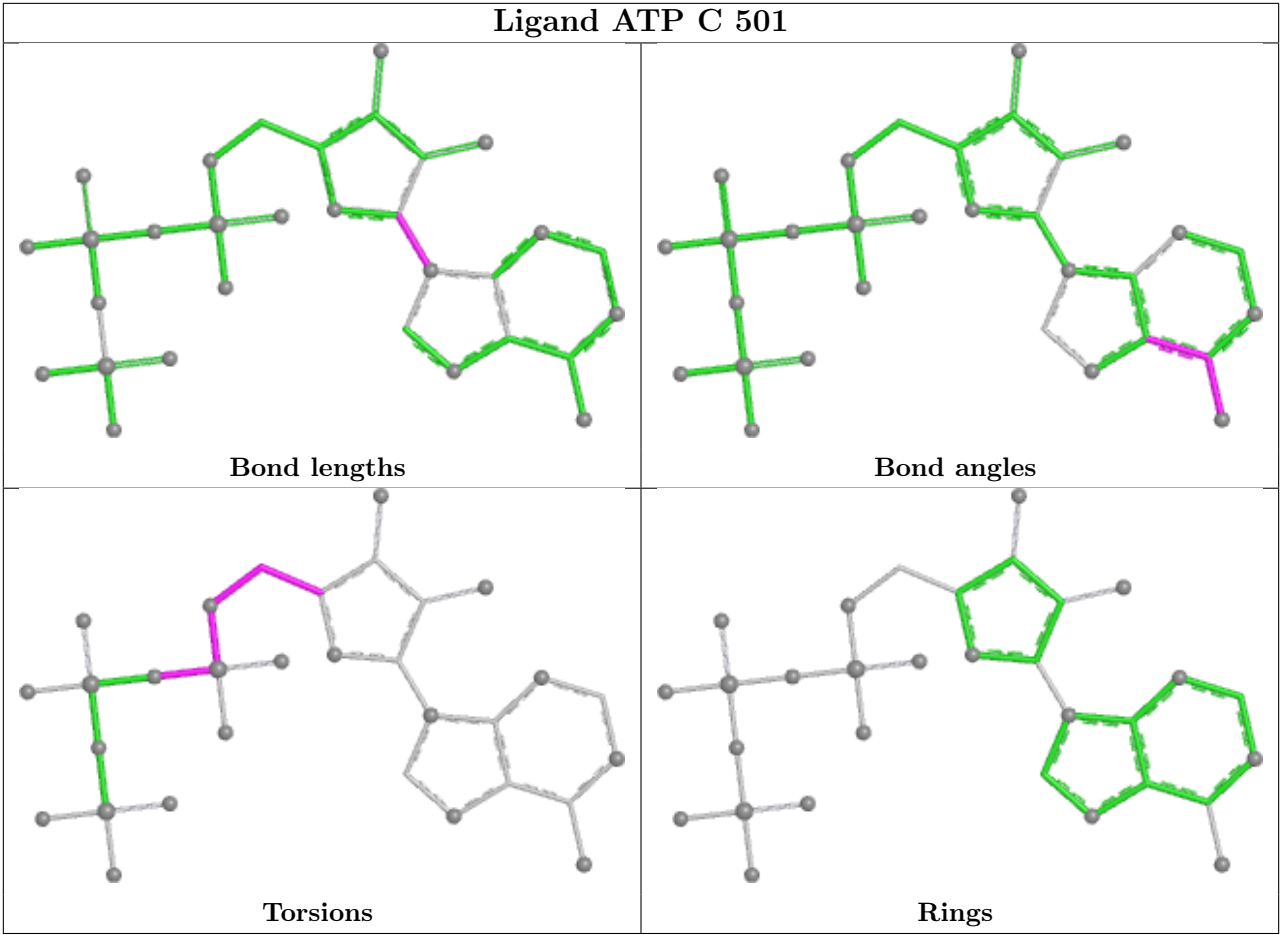
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier.

The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
18	f	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	f	646:MET	C	647:GLY	N	3.77

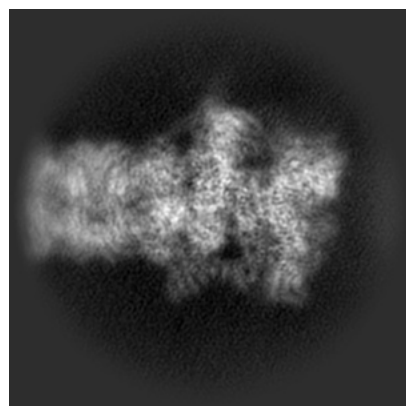
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-47722. These allow visual inspection of the internal detail of the map and identification of artifacts.

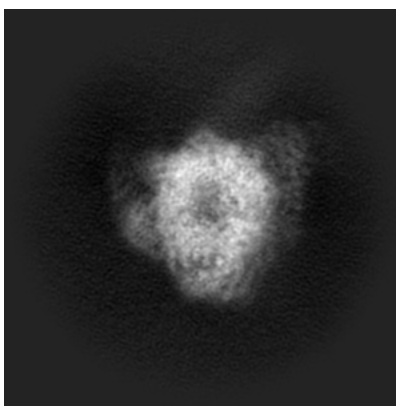
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

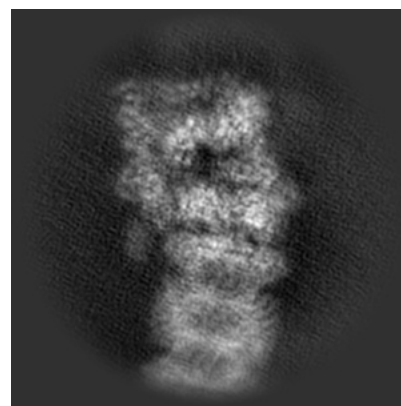
6.1.1 Primary map



X

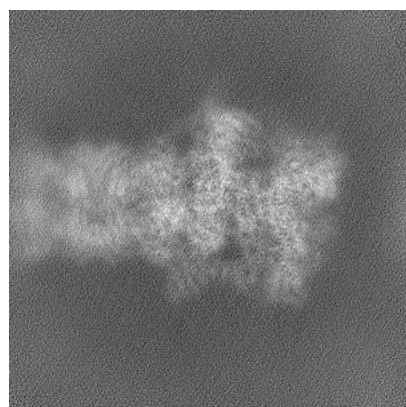


Y

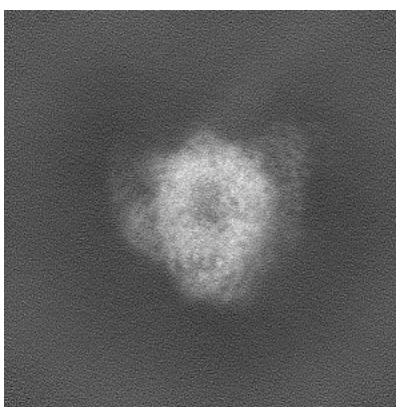


Z

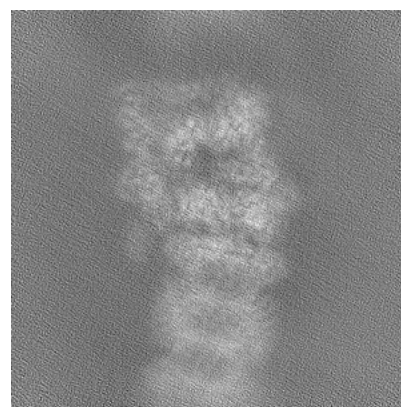
6.1.2 Raw map



X



Y

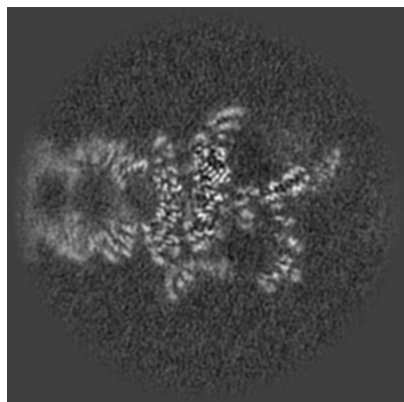


Z

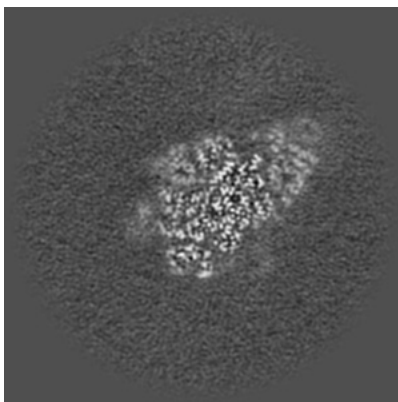
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

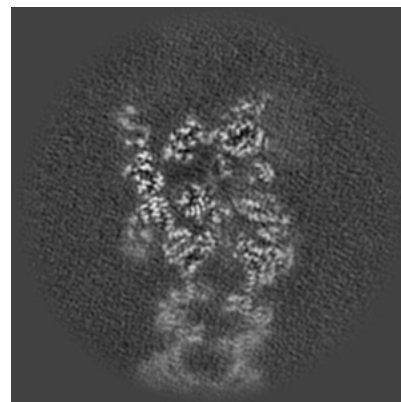
6.2.1 Primary map



X Index: 170

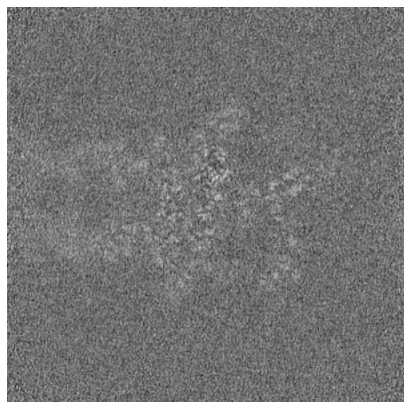


Y Index: 170

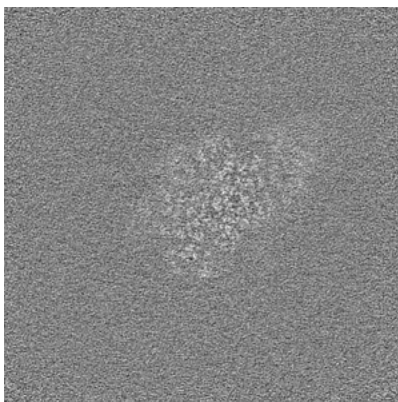


Z Index: 170

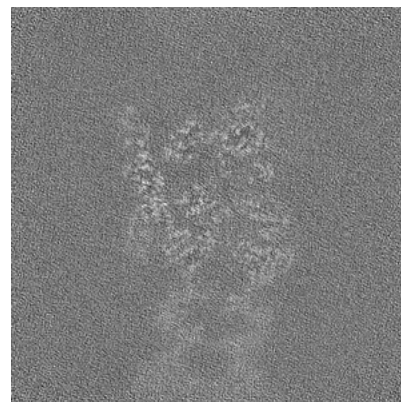
6.2.2 Raw map



X Index: 170



Y Index: 170

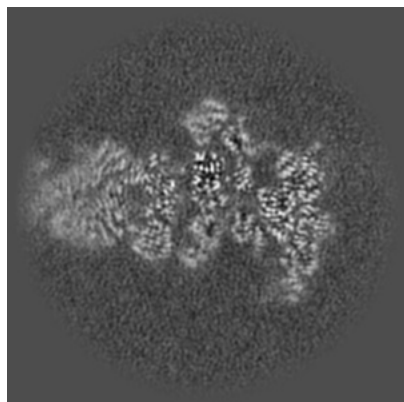


Z Index: 170

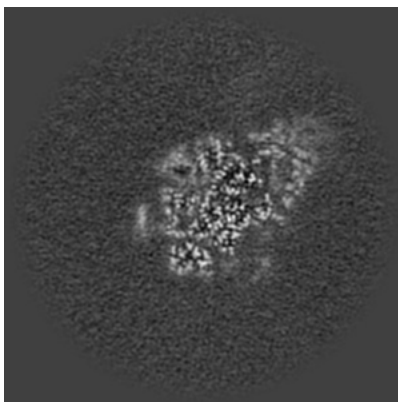
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

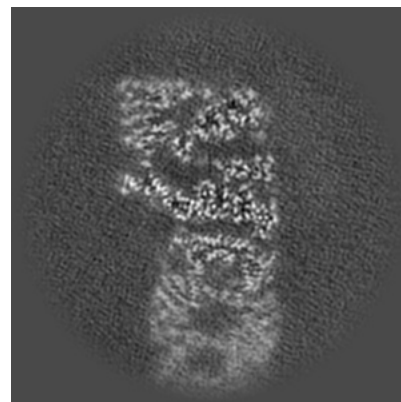
6.3.1 Primary map



X Index: 200

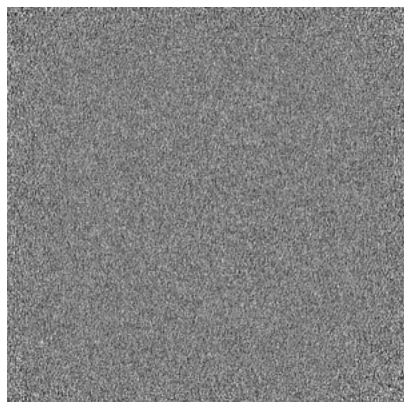


Y Index: 172

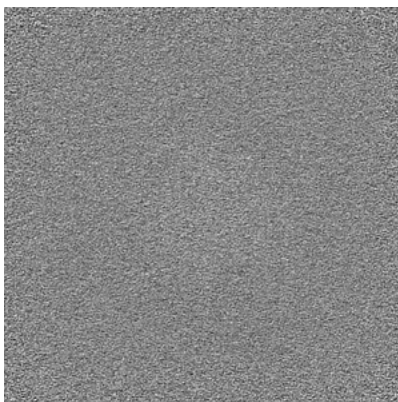


Z Index: 192

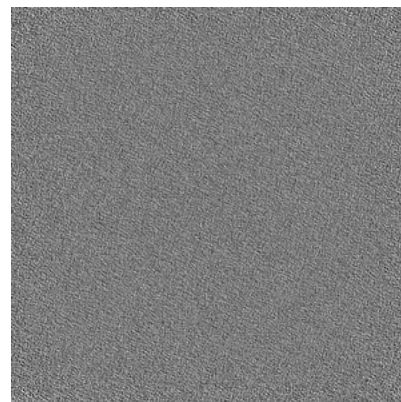
6.3.2 Raw map



X Index: 0



Y Index: 0

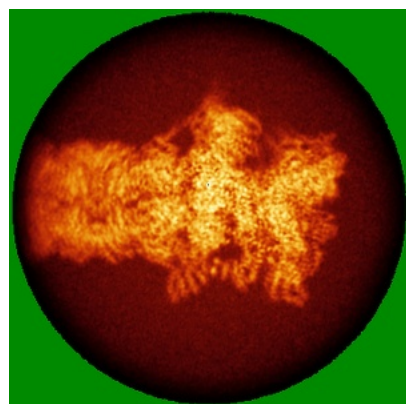


Z Index: 0

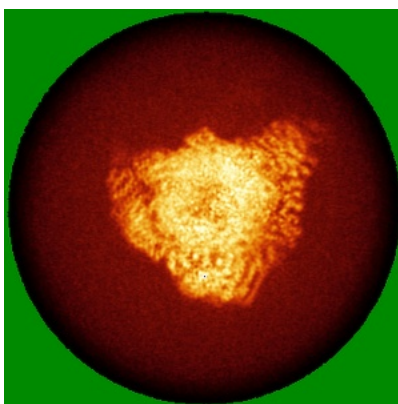
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

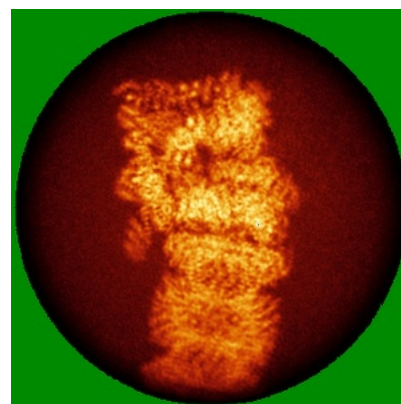
6.4.1 Primary map



X

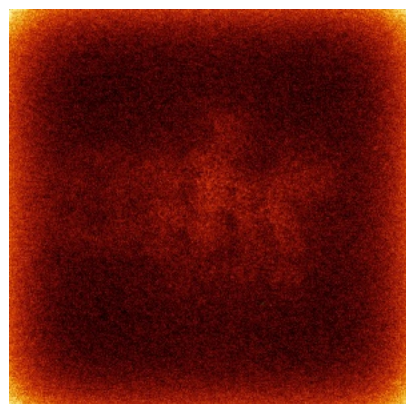


Y

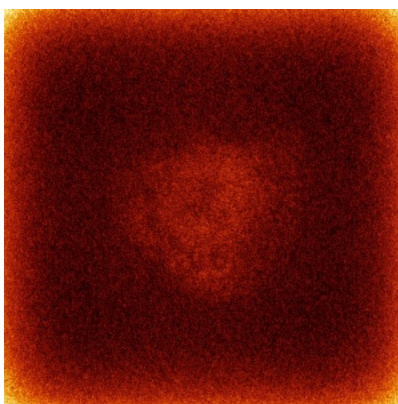


Z

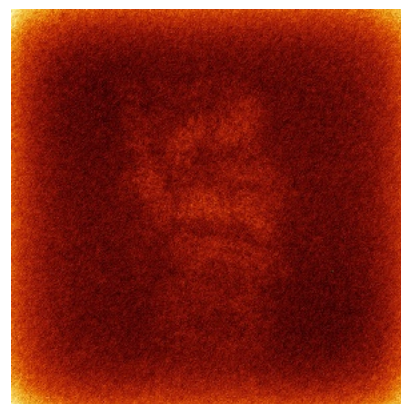
6.4.2 Raw map



X



Y

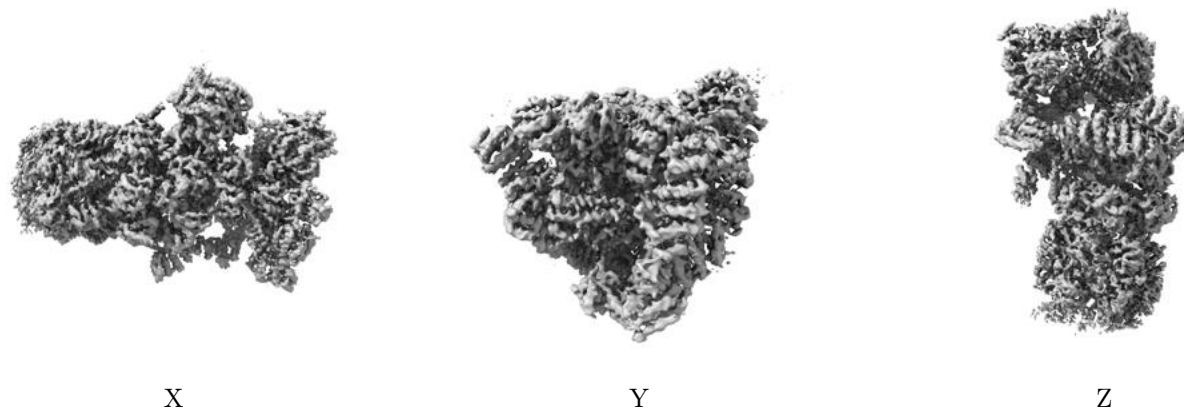


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

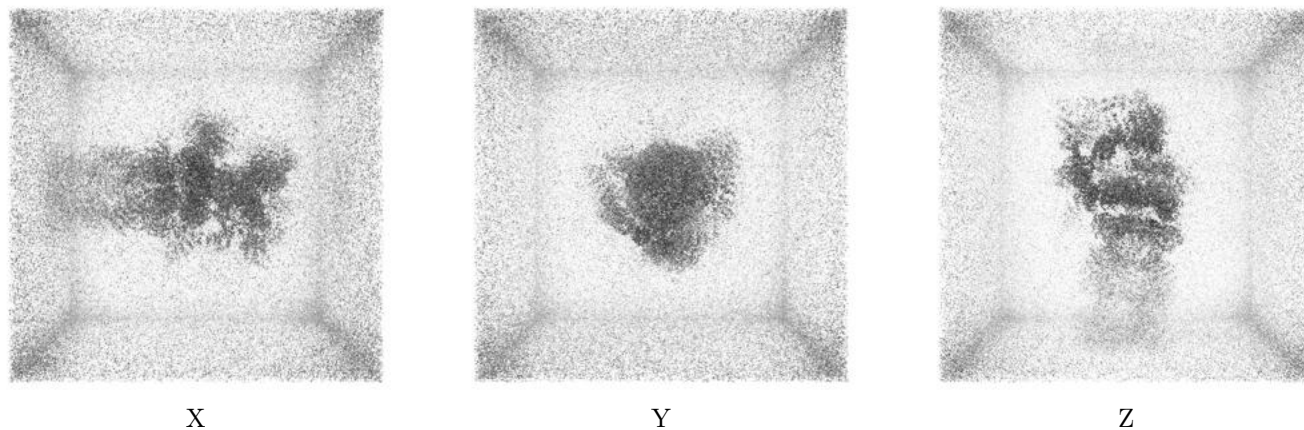
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

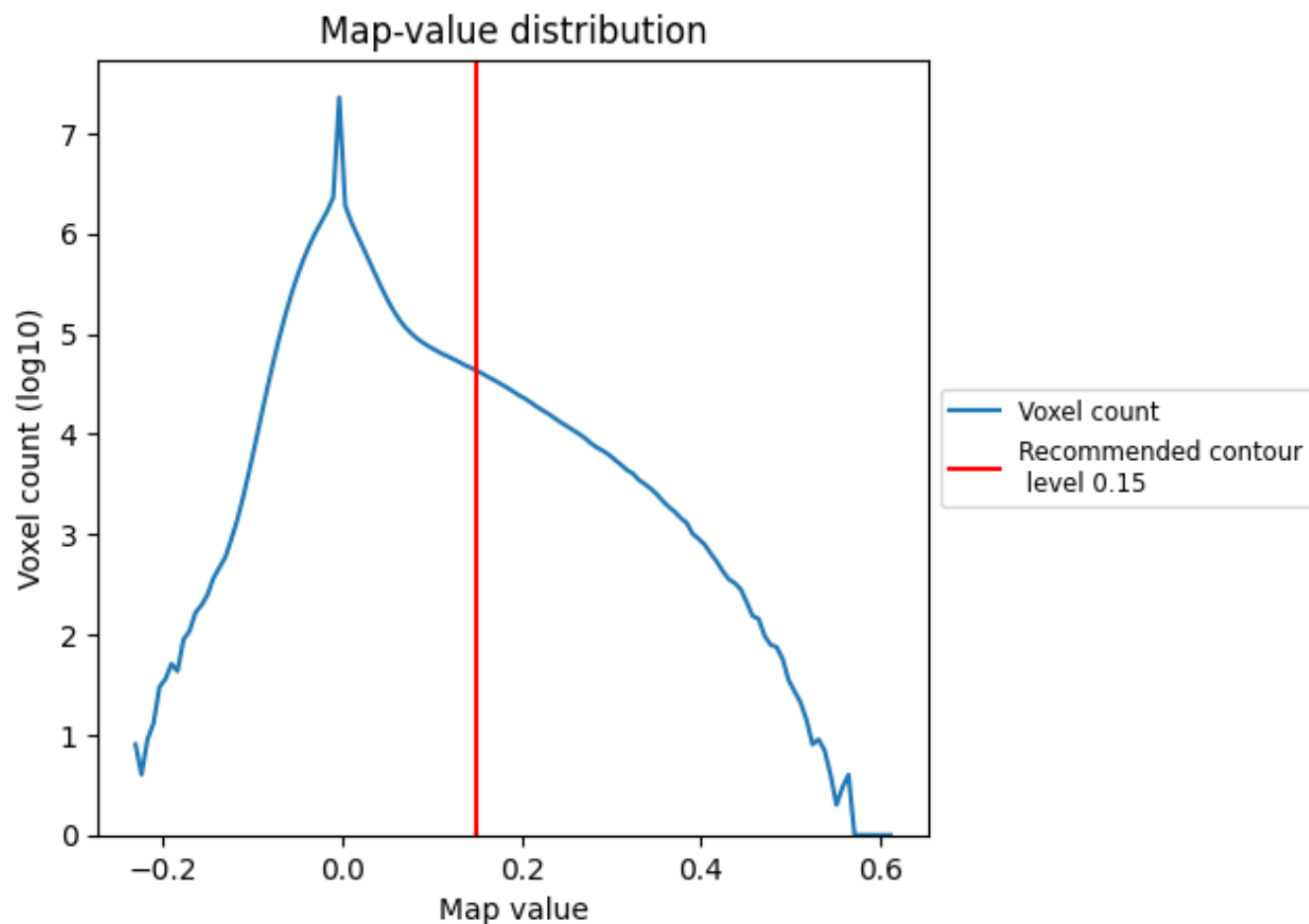
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

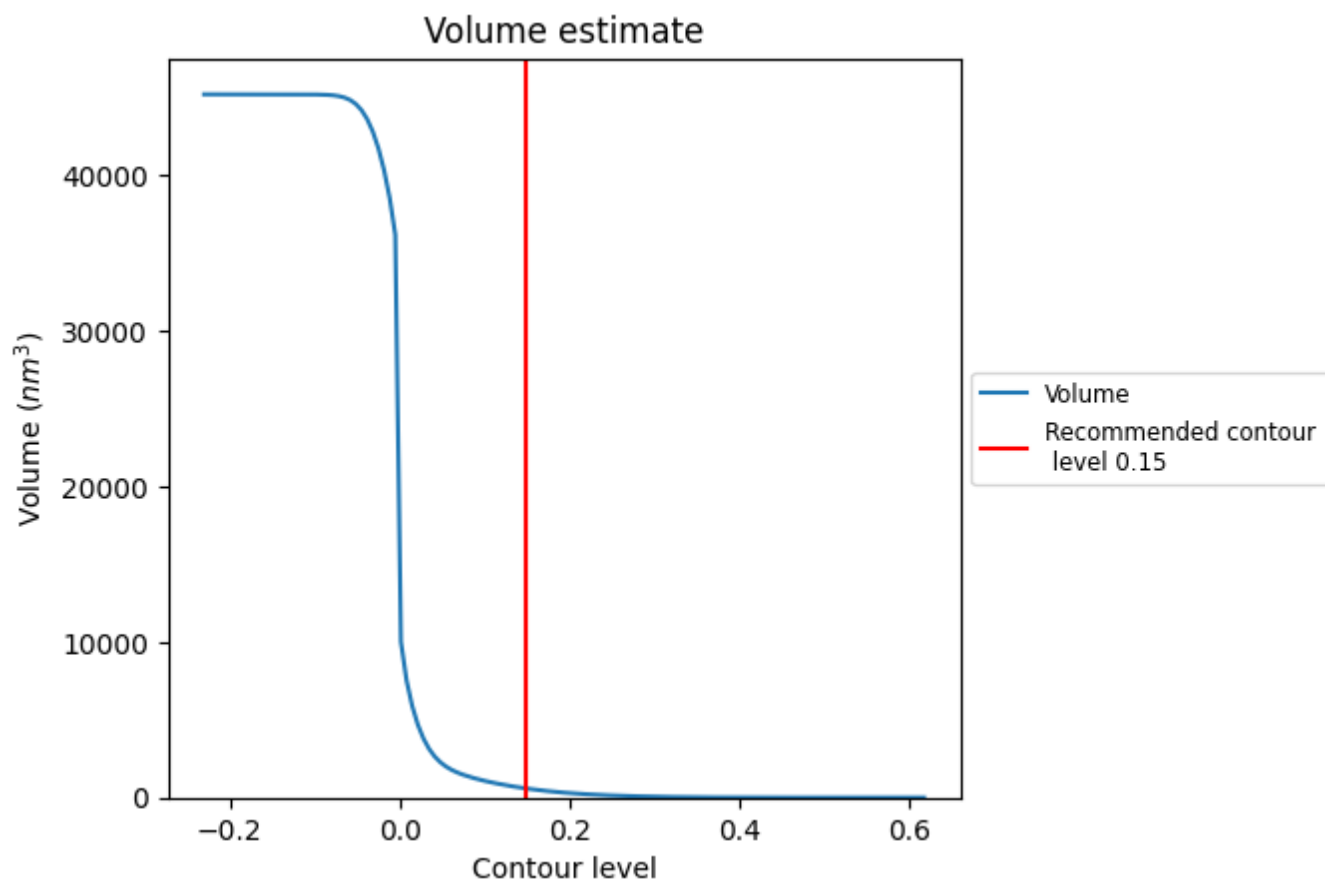
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

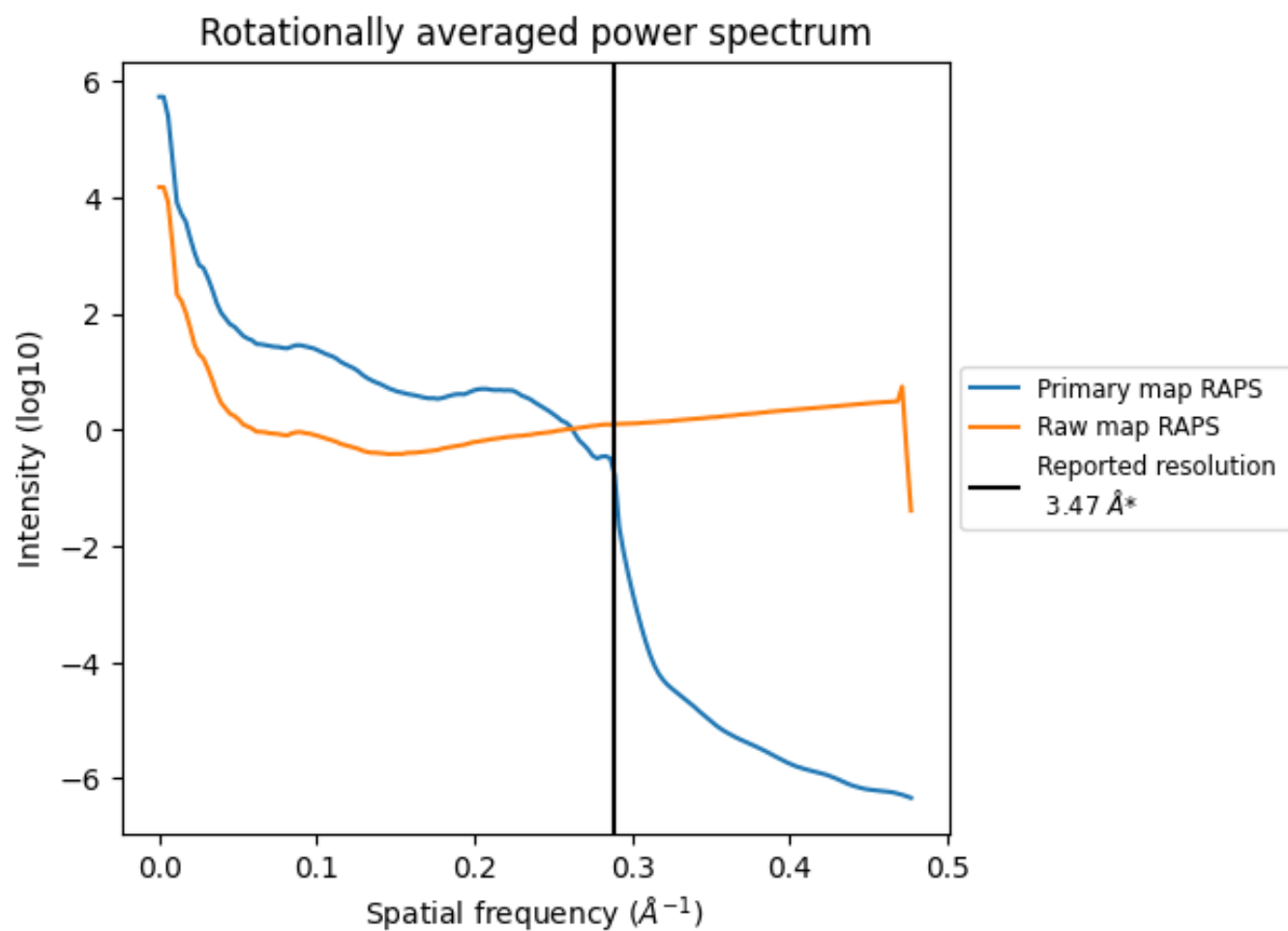
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 582 nm³; this corresponds to an approximate mass of 526 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)

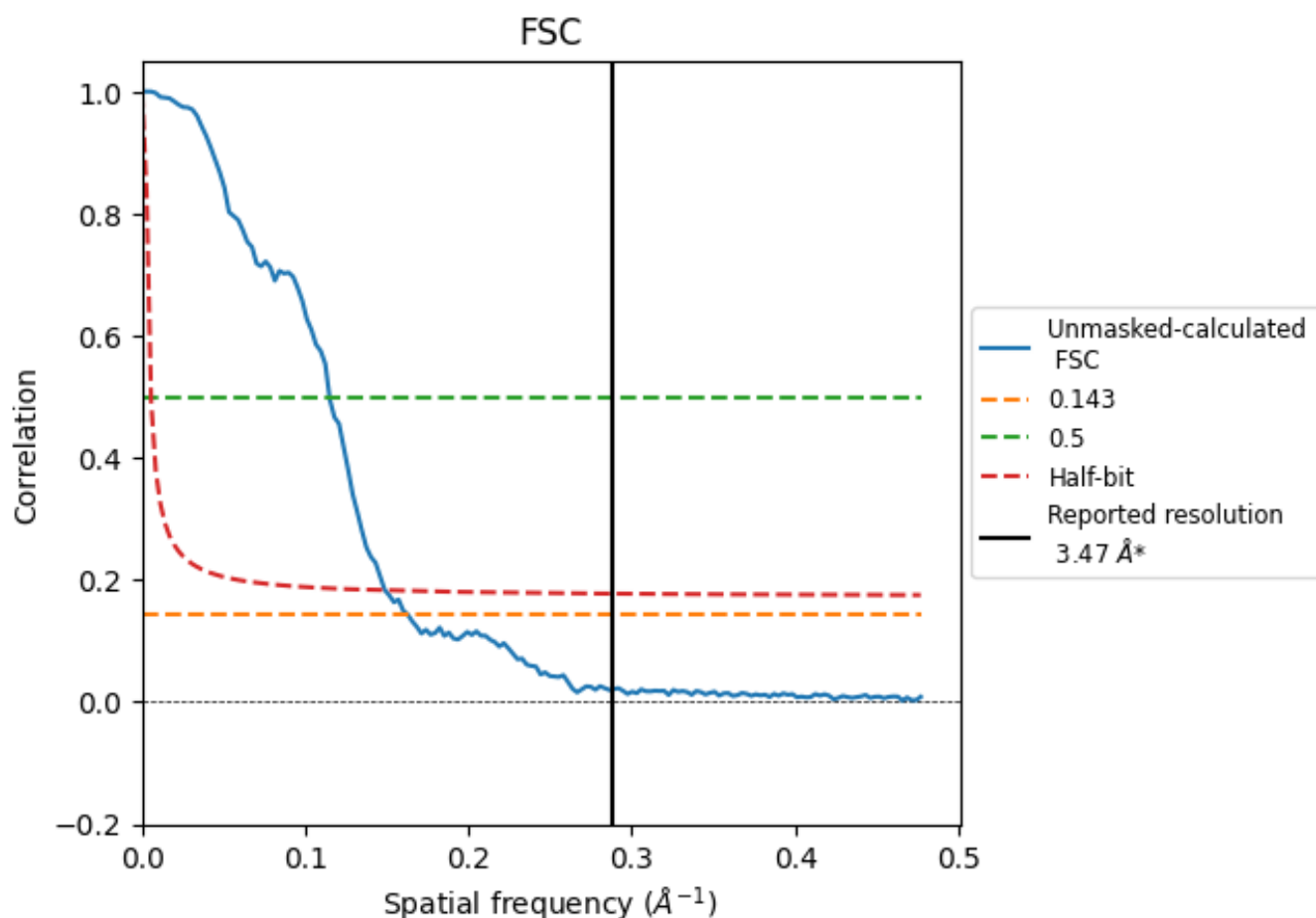


*Reported resolution corresponds to spatial frequency of 0.288 $\text{\AA}^{-1}$

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.288 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

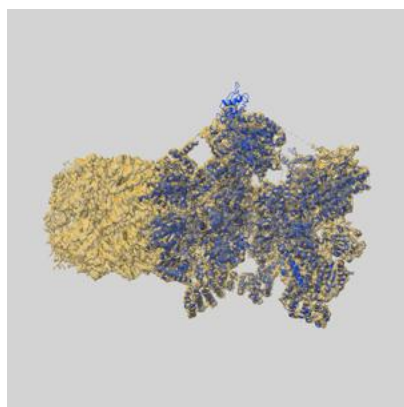
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.47	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	6.14	8.71	6.71

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.14 differs from the reported value 3.47 by more than 10 %

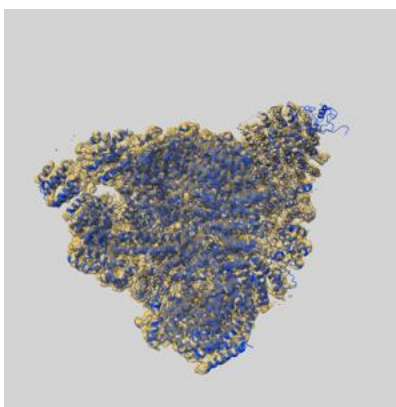
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-47722 and PDB model 9E8J. Per-residue inclusion information can be found in section 3 on page 14.

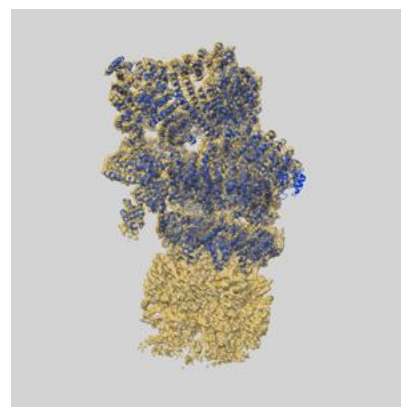
9.1 Map-model overlay [i](#)



X



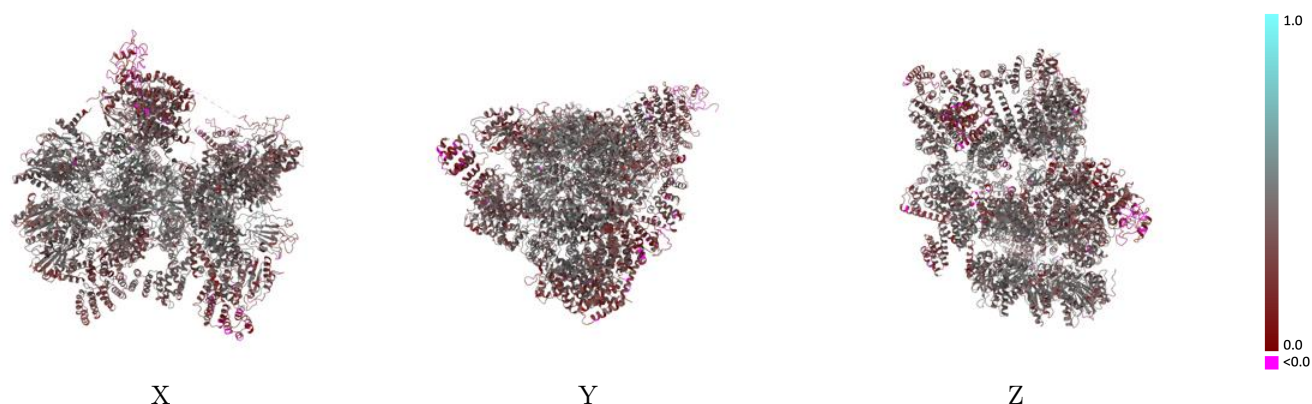
Y



Z

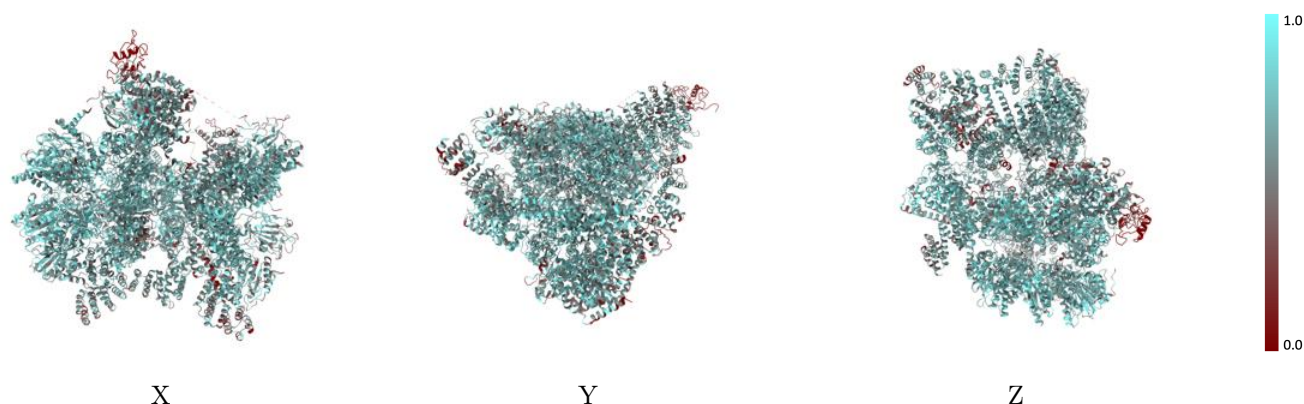
The images above show the 3D surface view of the map at the recommended contour level 0.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



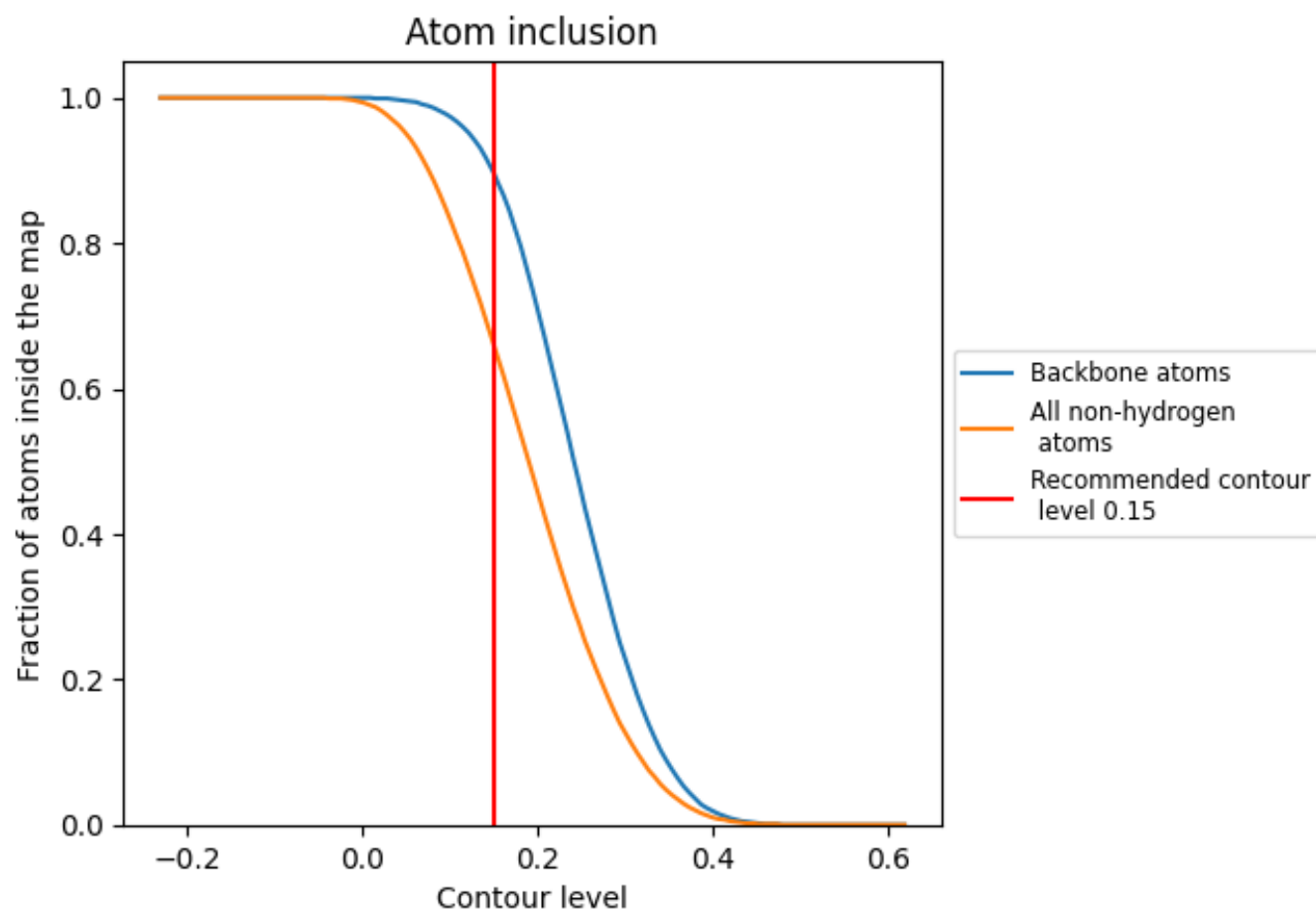
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.15).

9.4 Atom inclusion [i](#)



At the recommended contour level, 90% of all backbone atoms, 66% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6600	 0.3750
A	 0.6760	 0.4140
B	 0.6950	 0.4400
C	 0.7280	 0.4500
D	 0.7200	 0.4410
E	 0.6320	 0.3570
F	 0.6100	 0.3610
G	 0.7180	 0.4170
H	 0.7320	 0.4250
I	 0.7260	 0.4060
J	 0.7320	 0.4070
K	 0.7160	 0.4060
L	 0.7280	 0.4090
M	 0.6940	 0.3900
U	 0.6620	 0.3720
V	 0.6050	 0.3250
W	 0.6270	 0.3530
X	 0.6910	 0.3810
Y	 0.7620	 0.4110
Z	 0.7200	 0.4240
a	 0.6000	 0.2920
b	 0.6070	 0.3340
c	 0.6740	 0.4080
d	 0.5530	 0.2890
e	 0.6670	 0.3560
f	 0.6100	 0.3150
g	 0.0200	 0.0650
u	 0.5690	 0.3850
v	 0.9270	 0.5470

