



Full wwPDB EM Validation Report ⓘ

Mar 7, 2026 – 02:33 AM UTC

PDB ID : 3JCP / pdb_00003jcp
EMDB ID : EMD-6575
Title : Structure of yeast 26S proteasome in M2 state derived from Titan dataset
Authors : Luan, B.; Huang, X.L.; Wu, J.P.; Shi, Y.G.; Wang, F.
Deposited on : 2016-01-06
Resolution : 4.60 Å(reported)
Based on initial model : 4CR2

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:

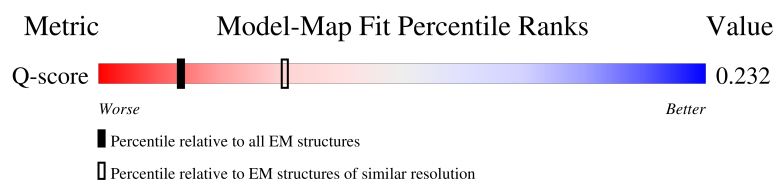
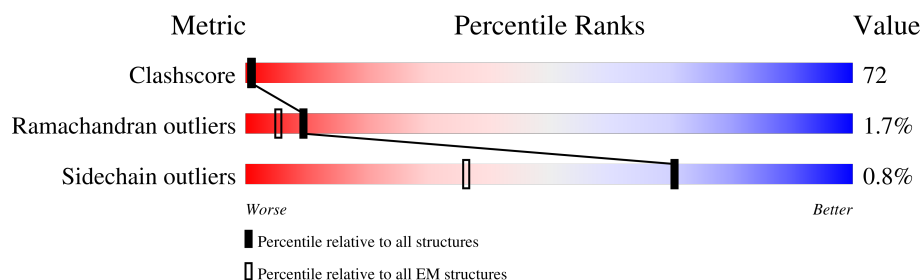
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

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 4.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2407 (4.10 - 5.10)

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	1	241	 6% 24% 68% 8%
1	8	241	 5% 23% 69% 8%
2	2	266	 23% 65% 12%
2	9	266	 23% 64% 12%

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Mol	Chain	Length	Quality of chain
3	3	215	
3	h	215	
4	4	261	
4	i	261	
5	5	205	
5	j	205	
6	6	198	
6	k	198	
7	7	287	
7	l	287	
8	A	252	
8	a	252	
9	B	250	
9	b	250	
10	C	258	
10	c	258	
11	D	254	
11	d	254	
12	E	260	
12	e	260	
13	F	234	
13	f	234	
14	G	288	
14	g	288	
15	H	467	

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Mol	Chain	Length	Quality of chain
16	I	437	
17	J	405	
18	K	428	
19	L	437	
20	M	434	
21	N	945	
22	O	393	
23	P	445	
24	Q	434	
25	R	429	
26	S	523	
27	T	274	
28	U	338	
29	V	306	
30	W	268	
31	X	156	
32	Y	89	
33	Z	993	

2 Entry composition

There are 33 unique types of molecules in this entry. The entry contains 104170 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 Proteasome subunit beta type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1	222	Total	C	N	O	S	0	0
			1757	1115	303	335	4		
1	8	222	Total	C	N	O	S	0	0
			1757	1115	303	335	4		

- Molecule 2 is a protein called Proteasome subunit beta type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	2	233	Total	C	N	O	S	0	0
			1824	1154	312	351	7		
2	9	233	Total	C	N	O	S	0	0
			1824	1154	312	351	7		

- Molecule 3 is a protein called Proteasome subunit beta type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	3	205	Total	C	N	O	S	0	0
			1573	995	260	311	7		
3	h	205	Total	C	N	O	S	0	0
			1574	995	261	311	7		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
4	4	222	Total	C	N	O	S	0	0
			1684	1061	293	323	7		
4	i	222	Total	C	N	O	S	0	0
			1684	1061	293	323	7		

- Molecule 5 is a protein called Proteasome subunit beta type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	5	204	Total	C	N	O	S	0	0
			1581	1010	258	305	8		
5	j	204	Total	C	N	O	S	0	0
			1578	1009	257	304	8		

- Molecule 6 is a protein called Proteasome subunit beta type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	6	198	Total	C	N	O	S	0	0
			1585	1005	269	305	6		
6	k	198	Total	C	N	O	S	0	0
			1585	1005	269	305	6		

- Molecule 7 is a protein called Proteasome subunit beta type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	7	212	Total	C	N	O	S	0	0
			1644	1045	280	312	7		
7	l	212	Total	C	N	O	S	0	0
			1644	1045	280	312	7		

- Molecule 8 is a protein called Proteasome subunit alpha type-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	A	243	Total	C	N	O	S	0	0
			1921	1221	322	370	8		
8	a	243	Total	C	N	O	S	0	0
			1921	1221	322	370	8		

- Molecule 9 is a protein called Proteasome subunit alpha type-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	B	250	Total	C	N	O	S	0	0
			1915	1219	315	377	4		
9	b	250	Total	C	N	O	S	0	0
			1915	1219	315	377	4		

- Molecule 10 is a protein called Proteasome subunit alpha type-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	C	244	Total	C	N	O	S	0	0
			1904	1201	321	379	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	c	244	Total	C	N	O	S	0	0
			1904	1201	321	379	3		

- Molecule 11 is a protein called Proteasome subunit alpha type-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	D	241	Total	C	N	O	S	0	0
			1890	1181	331	374	4		
11	d	241	Total	C	N	O	S	0	0
			1890	1181	331	374	4		

- Molecule 12 is a protein called Proteasome subunit alpha type-5.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	E	242	Total	C	N	O	S	0	0
			1861	1162	314	378	7		
12	e	242	Total	C	N	O	S	0	0
			1861	1162	314	378	7		

- Molecule 13 is a protein called Proteasome subunit alpha type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	F	233	Total	C	N	O	S	0	0
			1795	1129	312	350	4		
13	f	233	Total	C	N	O	S	0	0
			1795	1129	312	350	4		

- Molecule 14 is a protein called Probable proteasome subunit alpha type-7.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	G	244	Total	C	N	O	S	0	0
			1896	1205	330	357	4		
14	g	244	Total	C	N	O	S	0	0
			1896	1205	330	357	4		

- Molecule 15 is a protein called 26S protease regulatory subunit 7 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	H	381	Total	C	N	O	S	0	0
			2877	1806	519	537	15		

- Molecule 16 is a protein called 26S protease regulatory subunit 4 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	I	354	Total	C	N	O	S	0	0
			2652	1655	453	531	13		

- Molecule 17 is a protein called 26S protease regulatory subunit 8 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	J	373	Total	C	N	O	S	0	0
			2914	1824	526	547	17		

- Molecule 18 is a protein called 26S protease regulatory subunit 6B homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	K	361	Total	C	N	O	S	0	0
			2835	1777	506	542	10		

- Molecule 19 is a protein called 26S protease subunit RPT4.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	L	358	Total	C	N	O	S	0	0
			2829	1782	501	534	12		

- Molecule 20 is a protein called 26S protease regulatory subunit 6A.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	M	357	Total	C	N	O	S	0	0
			2754	1723	473	548	10		

- Molecule 21 is a protein called 26S proteasome regulatory subunit RPN2.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	N	850	Total	C	N	O	S	0	0
			6570	4178	1100	1264	28		

- Molecule 22 is a protein called 26S proteasome regulatory subunit RPN9.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	O	376	Total	C	N	O	S	0	0
			2912	1867	481	557	7		

- Molecule 23 is a protein called 26S proteasome regulatory subunit RPN5.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	P	431	Total	C	N	O	S	0	0
			3470	2210	585	667	8		

- Molecule 24 is a protein called 26S proteasome regulatory subunit RPN6.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	Q	431	Total	C	N	O	S	0	0
			3469	2203	574	676	16		

- Molecule 25 is a protein called 26S proteasome regulatory subunit RPN7.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	R	400	Total	C	N	O	S	0	0
			3187	2028	525	624	10		

- Molecule 26 is a protein called 26S proteasome regulatory subunit RPN3.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	S	439	Total	C	N	O	S	0	0
			3384	2155	575	637	17		

- Molecule 27 is a protein called 26S proteasome regulatory subunit RPN12.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	T	267	Total	C	N	O	S	0	0
			2201	1410	350	435	6		

- Molecule 28 is a protein called 26S proteasome regulatory subunit RPN8.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	U	254	Total	C	N	O	S	0	0
			2049	1304	350	389	6		

- Molecule 29 is a protein called Ubiquitin carboxyl-terminal hydrolase RPN11.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	V	245	Total	C	N	O	S	0	0
			1912	1206	322	371	13		

- Molecule 30 is a protein called 26S proteasome regulatory subunit RPN10.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	W	197	Total	C	N	O	S	0	0
			1534	962	269	300	3		

- Molecule 31 is a protein called 26S proteasome regulatory subunit RPN13.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	X	127	Total	C	N	O	S	0	0
			1032	664	169	195	4		

- Molecule 32 is a protein called 26S proteasome complex subunit SEM1.

Mol	Chain	Residues	Atoms				AltConf	Trace
32	Y	34	Total	C	N	O	0	0
			243	146	45	52		

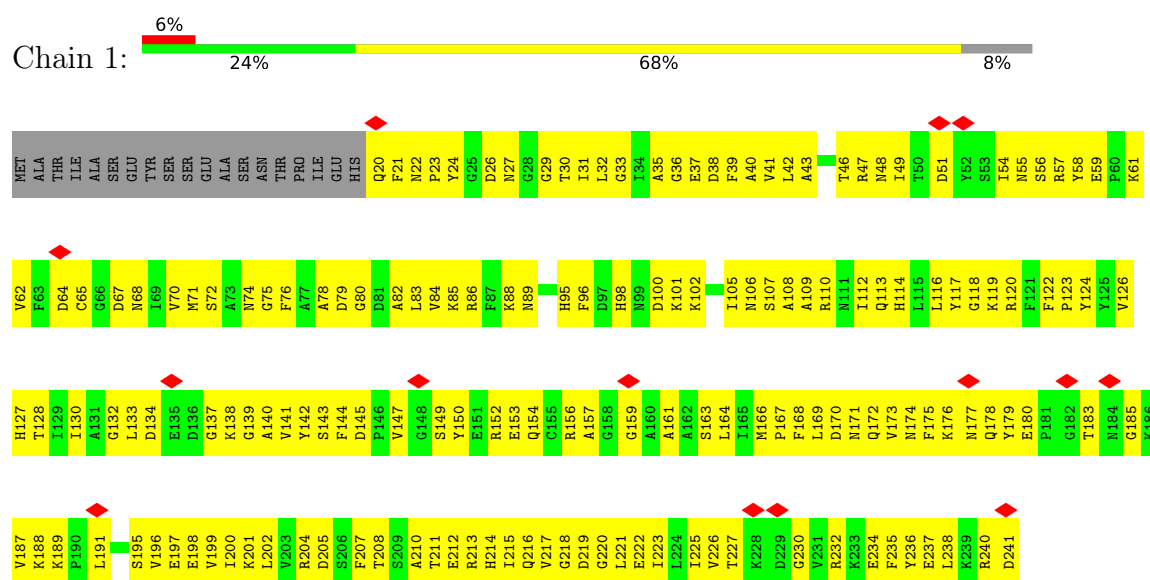
- Molecule 33 is a protein called 26S proteasome regulatory subunit RPN1.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	Z	746	Total	C	N	O	S	0	0
			5688	3616	940	1106	26		

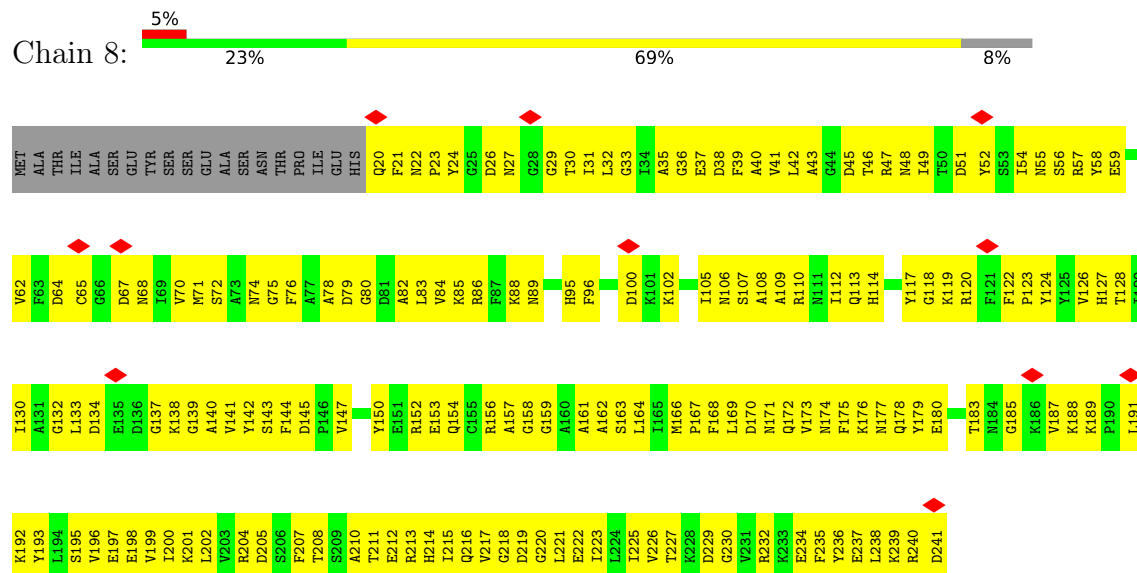
3 Residue-property plots

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: Proteasome subunit beta type-6

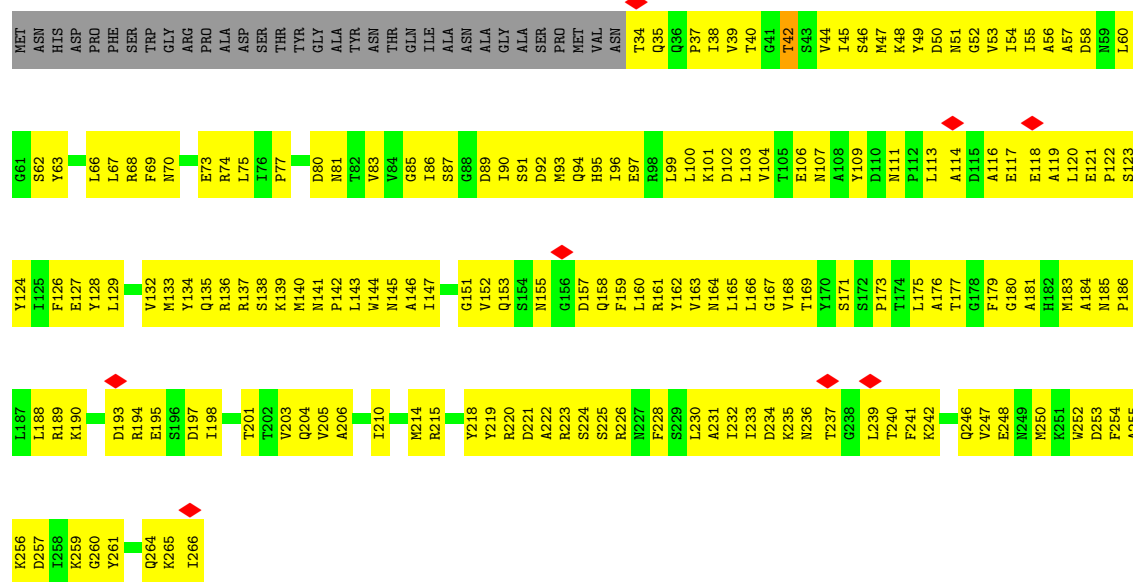


• Molecule 1: Proteasome subunit beta type-6



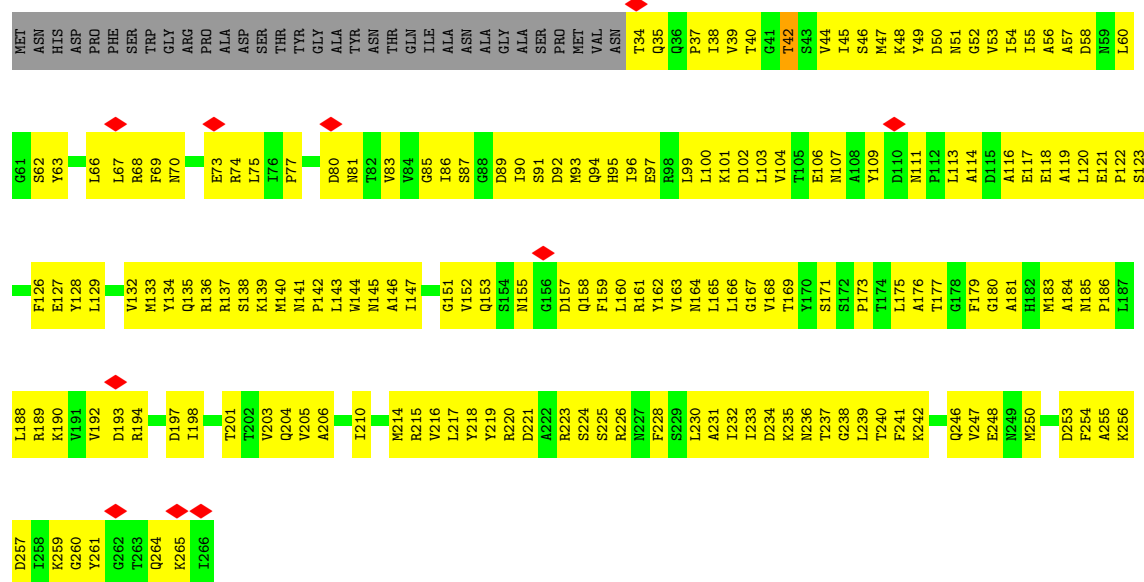
• Molecule 2: Proteasome subunit beta type-7

Chain 2:  23% 65% 12%



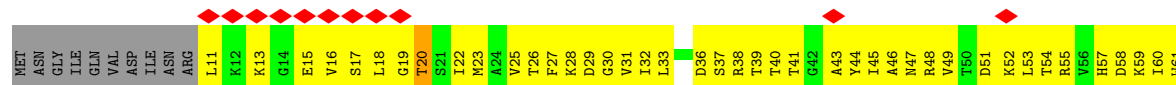
• Molecule 2: Proteasome subunit beta type-7

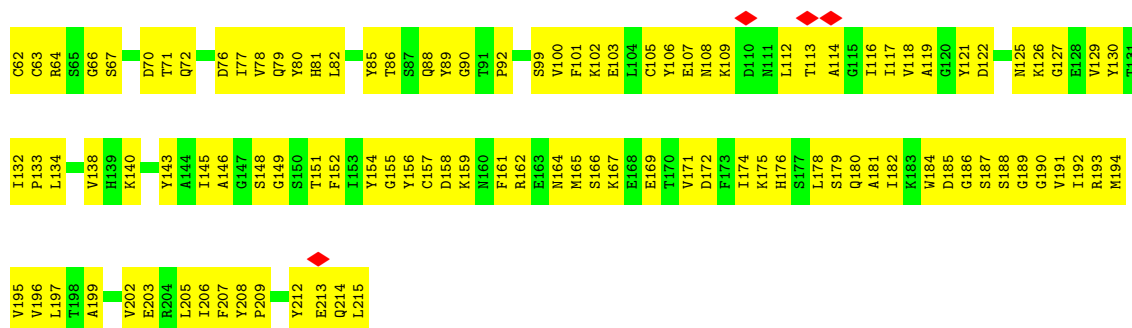
Chain 9:  23% 64% 12%



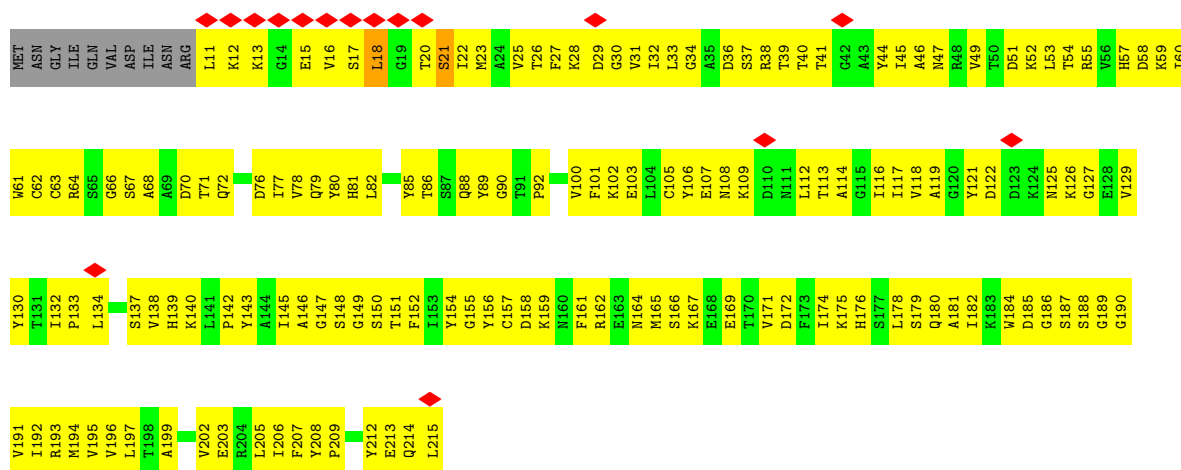
• Molecule 3: Proteasome subunit beta type-1

Chain 3:  7% 27% 68% 5%

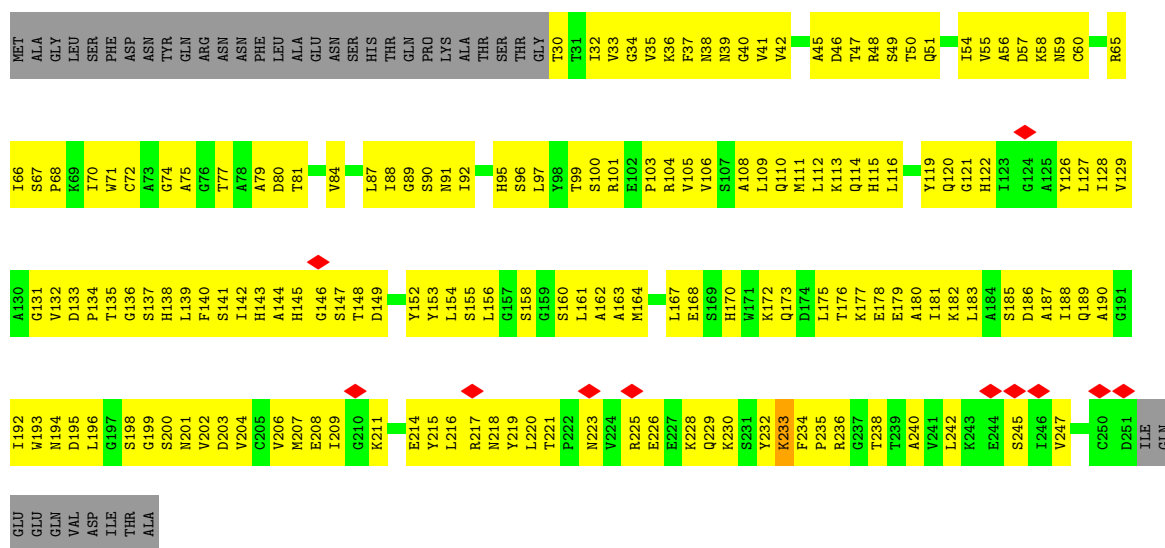




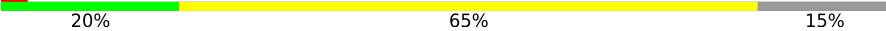
• Molecule 3: Proteasome subunit beta type-1

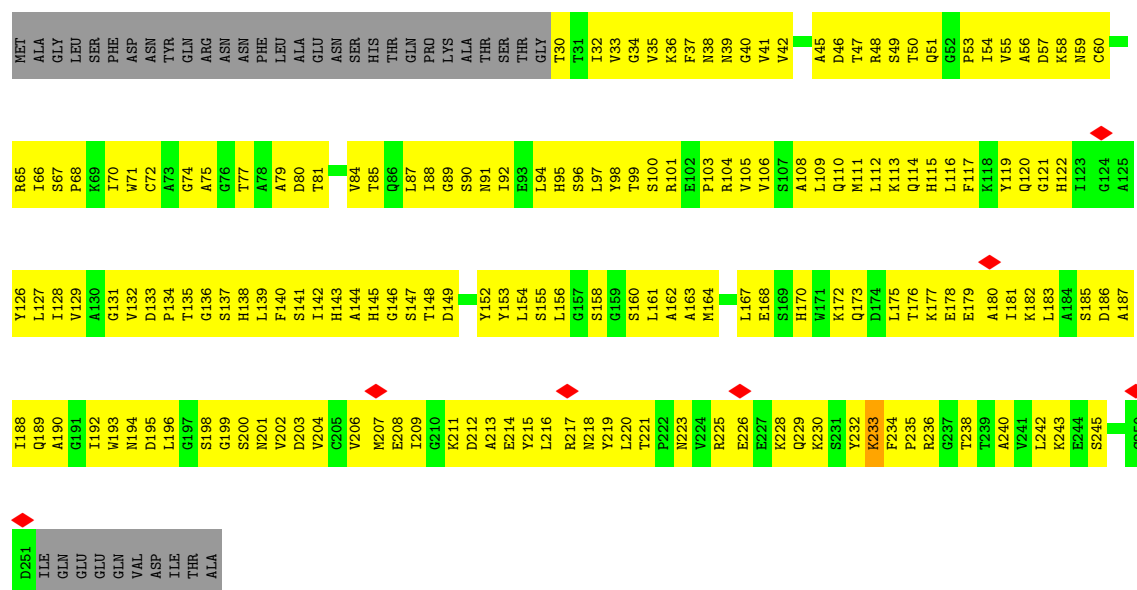


• Molecule 4: Proteasome subunit beta type-2



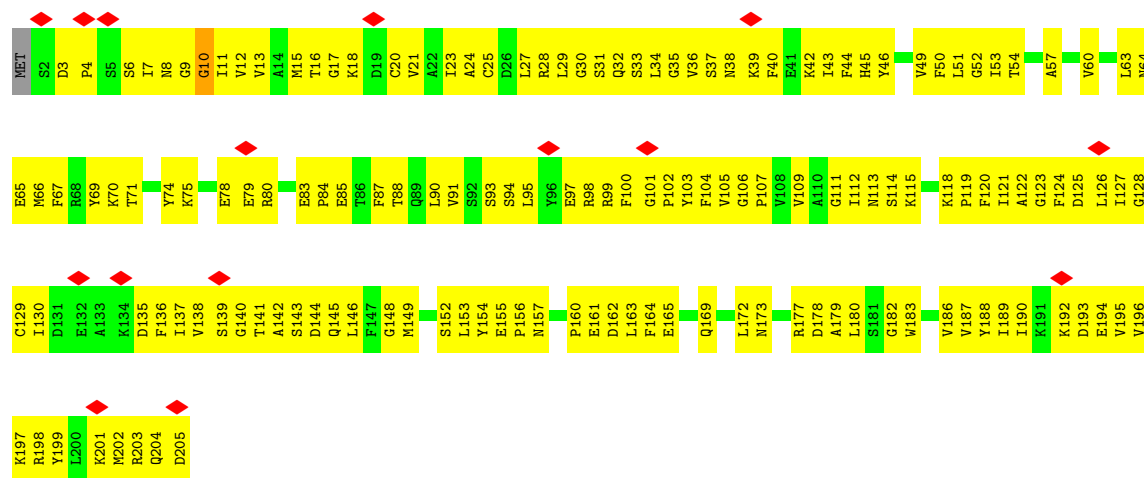
• Molecule 4: Proteasome subunit beta type-2

Chain i: 



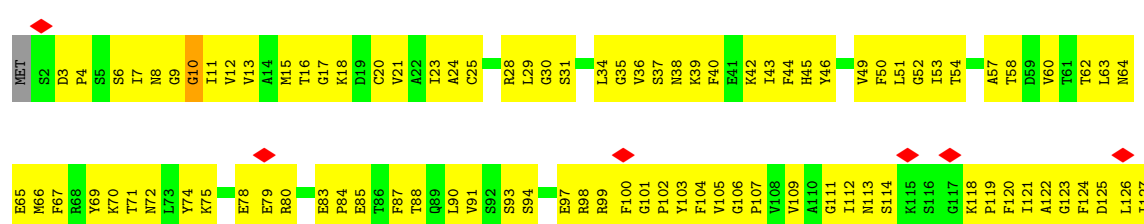
• Molecule 5: Proteasome subunit beta type-3

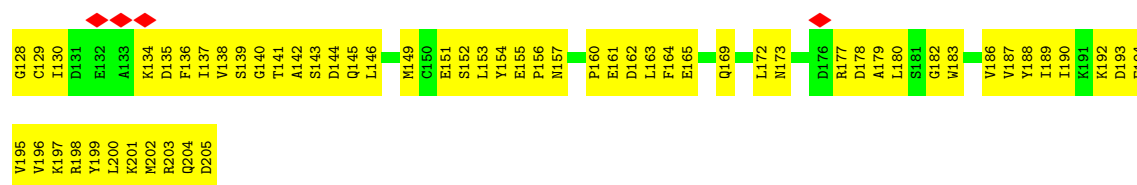
Chain 5: 



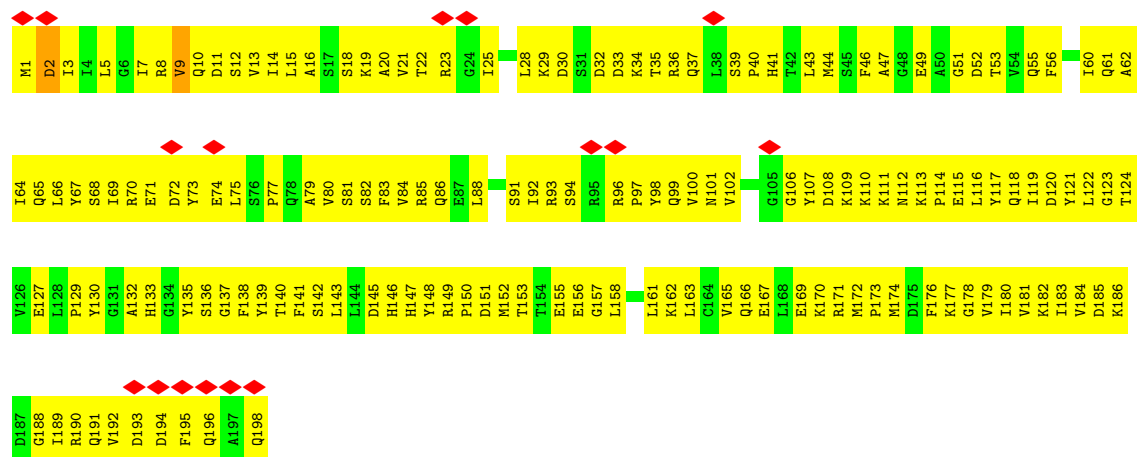
• Molecule 5: Proteasome subunit beta type-3

Chain j: 

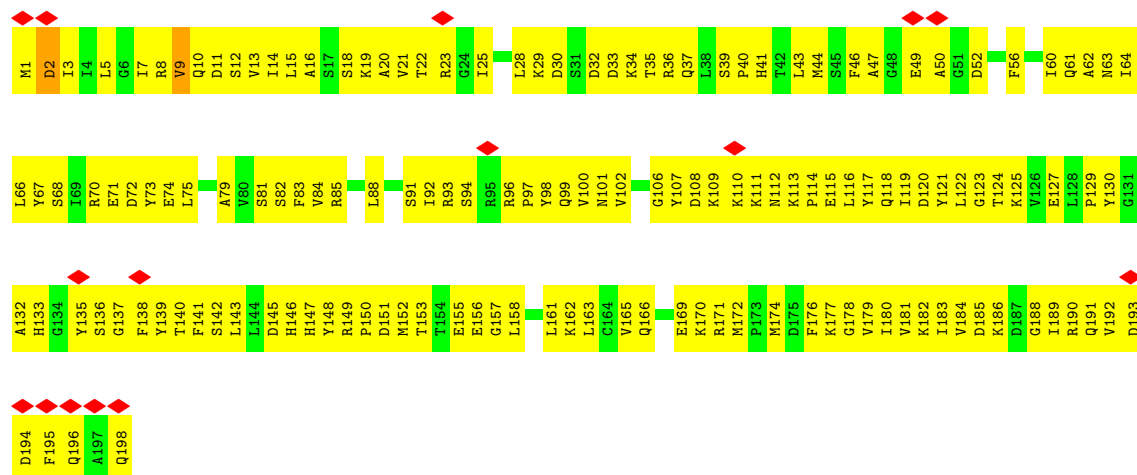




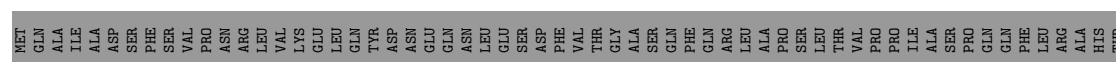
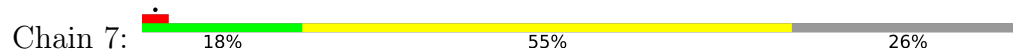
• Molecule 6: Proteasome subunit beta type-4

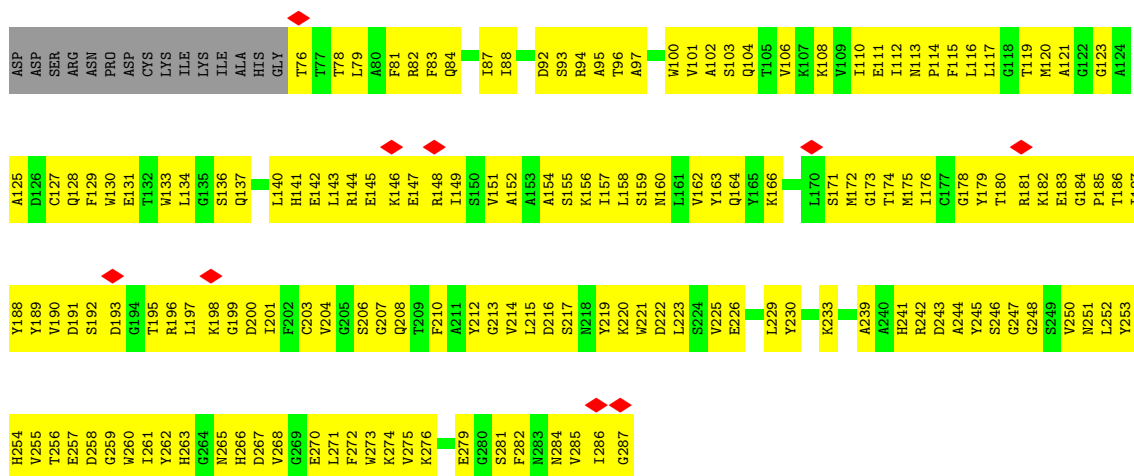


• Molecule 6: Proteasome subunit beta type-4

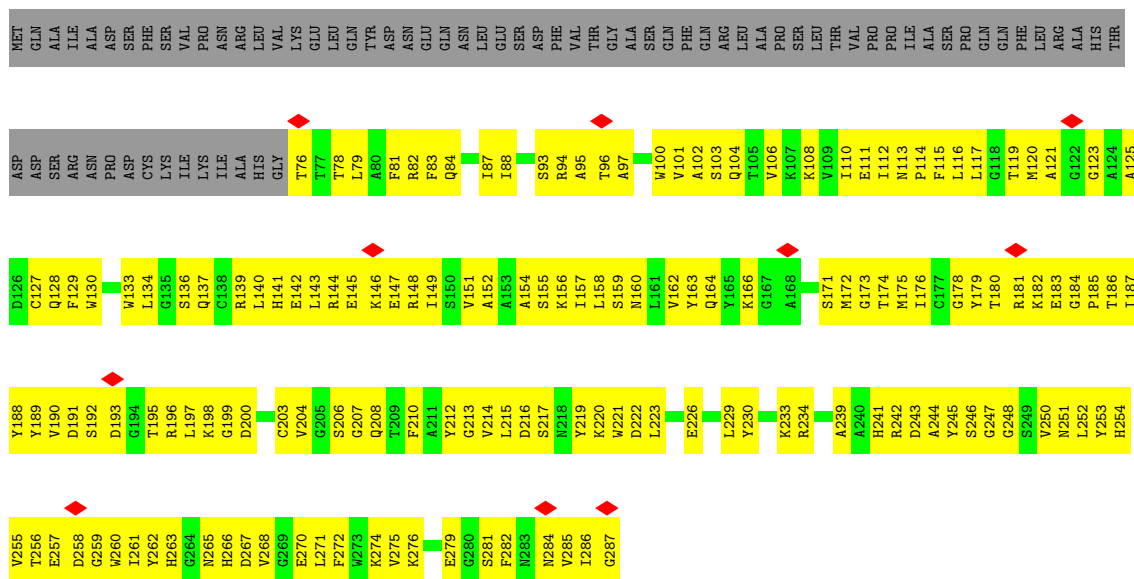
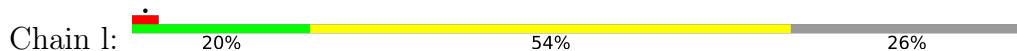


• Molecule 7: Proteasome subunit beta type-5

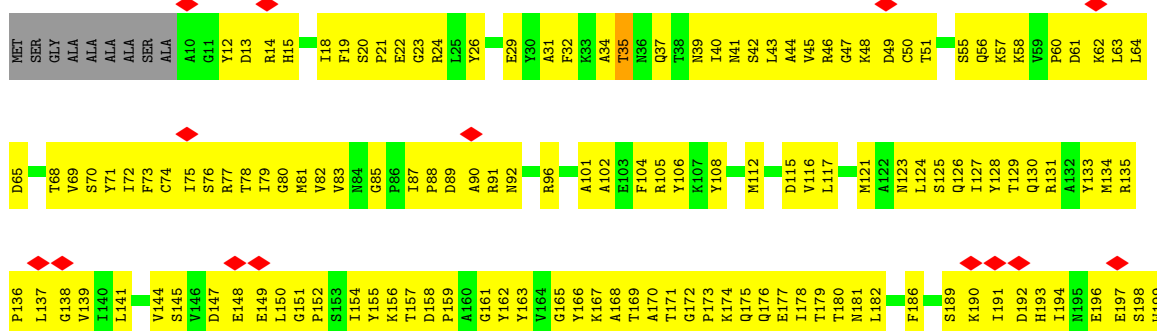


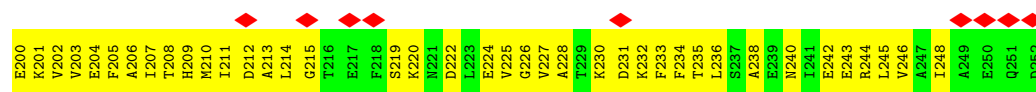


• Molecule 7: Proteasome subunit beta type-5

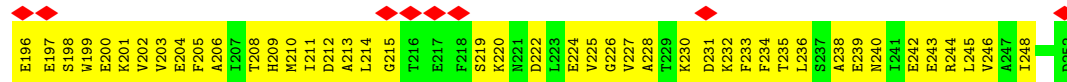


• Molecule 8: Proteasome subunit alpha type-1

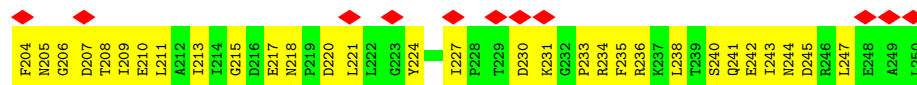
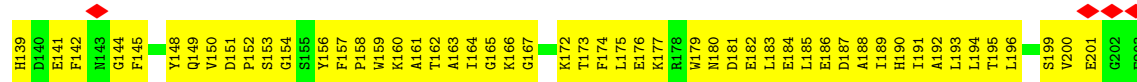
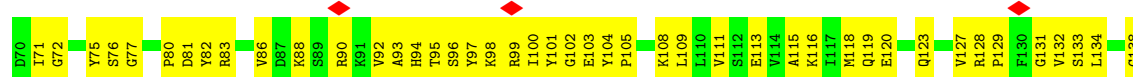
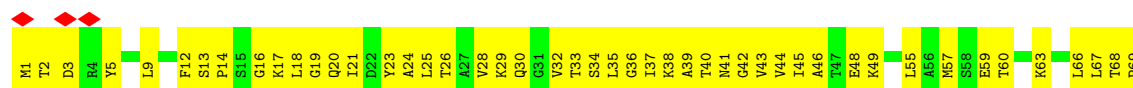




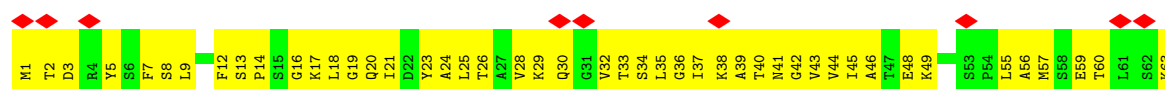
• Molecule 8: Proteasome subunit alpha type-1

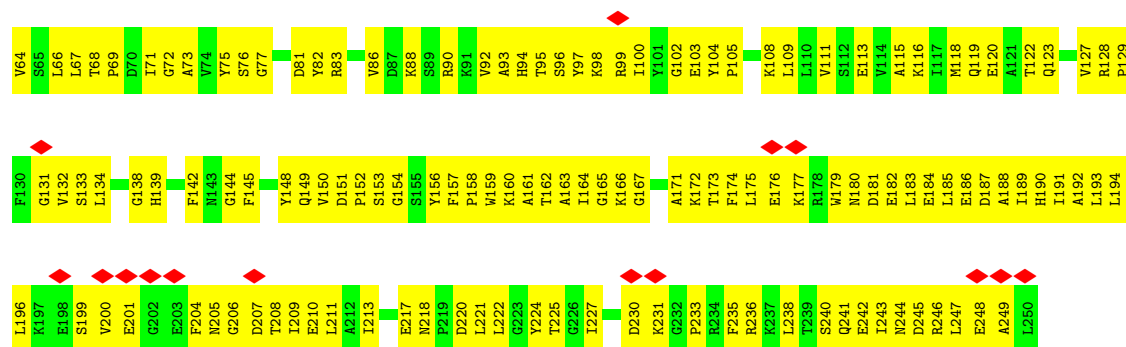


• Molecule 9: Proteasome subunit alpha type-2

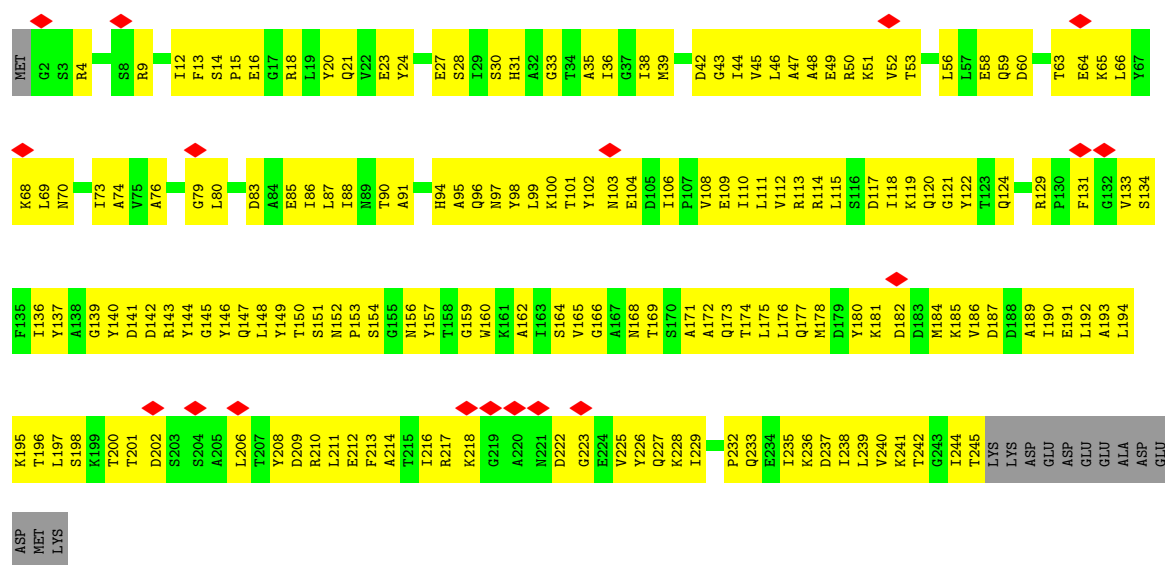


• Molecule 9: Proteasome subunit alpha type-2

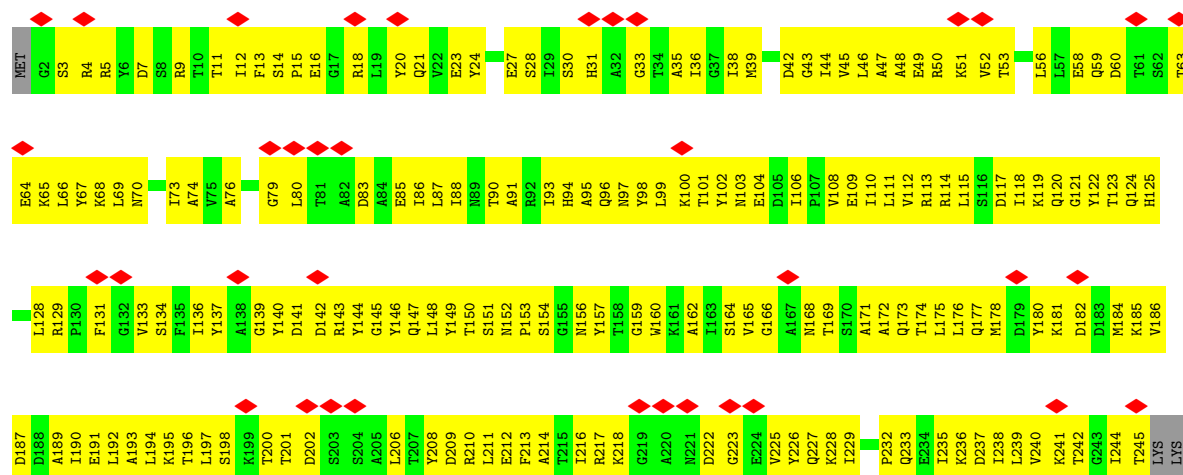




• Molecule 10: Proteasome subunit alpha type-3

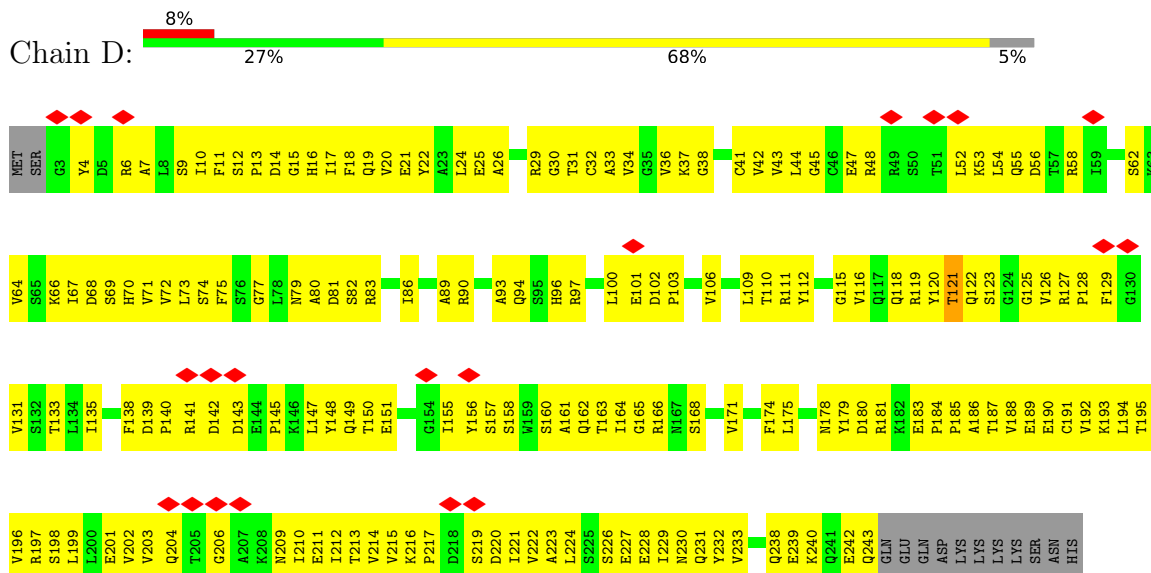


• Molecule 10: Proteasome subunit alpha type-3

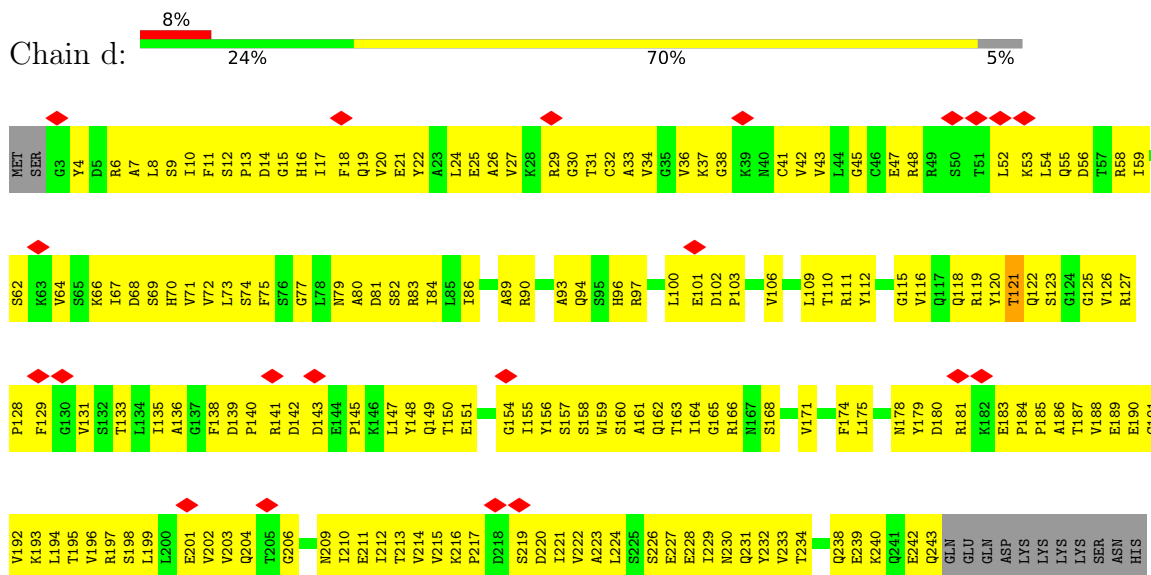


ASP
GLU
ASP
GLU
GLU
ALA
ASP
GLU
ASP
MET
LYS

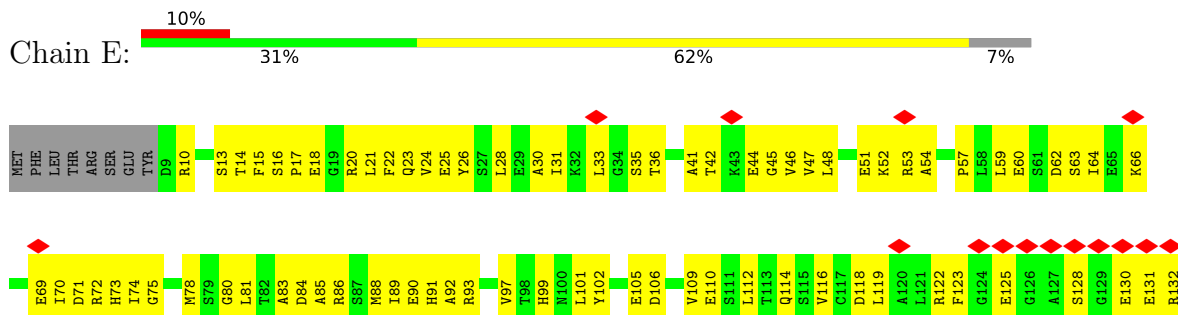
• Molecule 11: Proteasome subunit alpha type-4

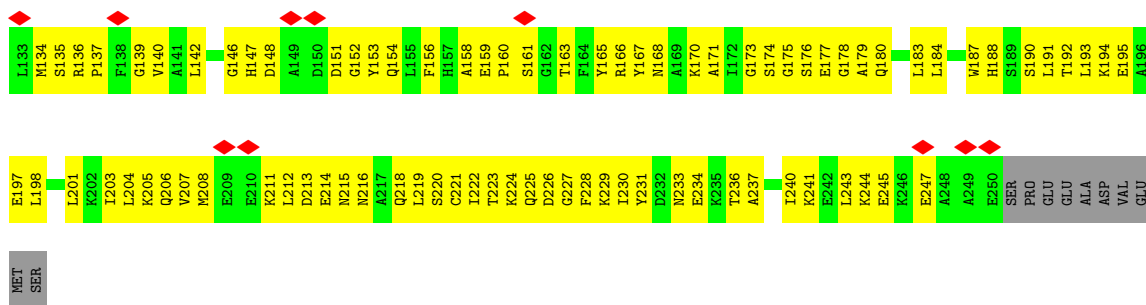


• Molecule 11: Proteasome subunit alpha type-4

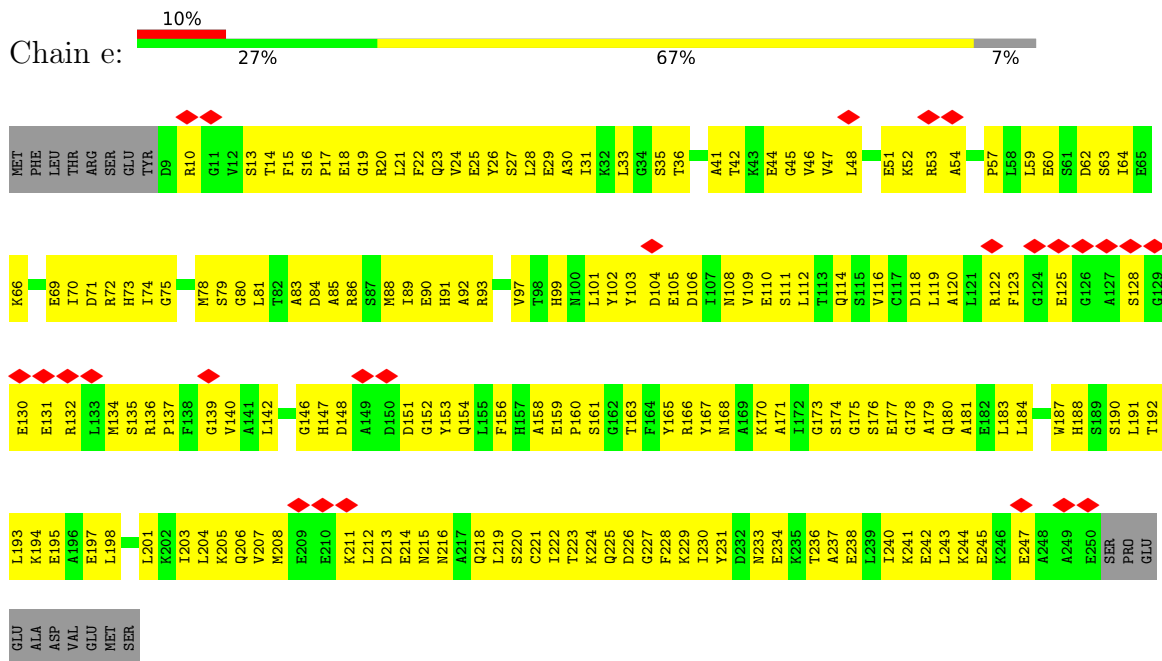


• Molecule 12: Proteasome subunit alpha type-5

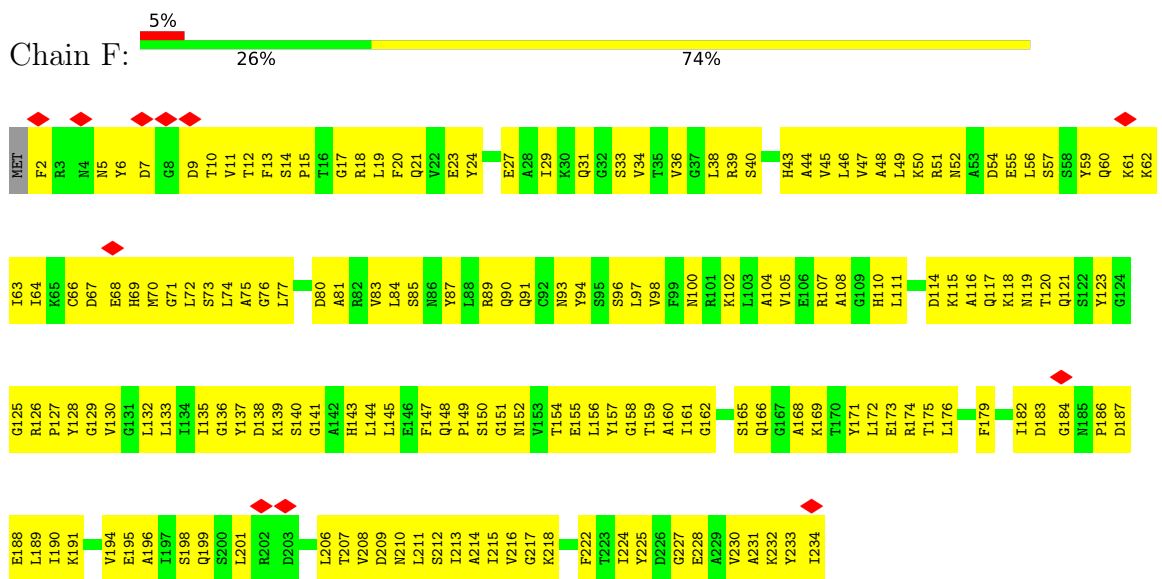




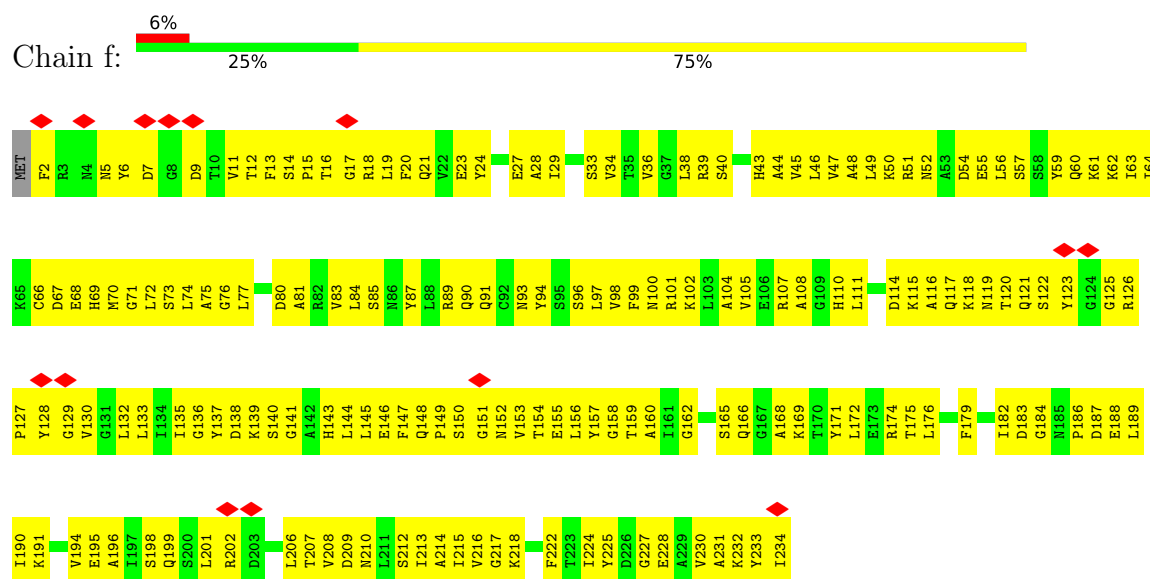
• Molecule 12: Proteasome subunit alpha type-5



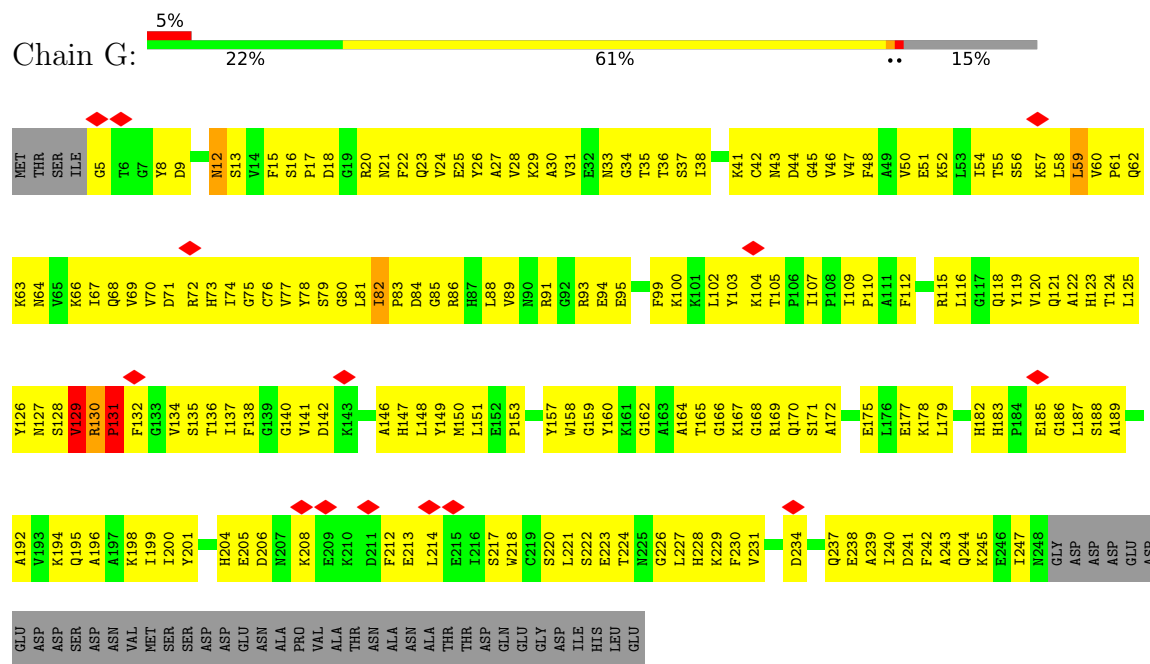
• Molecule 13: Proteasome subunit alpha type-6



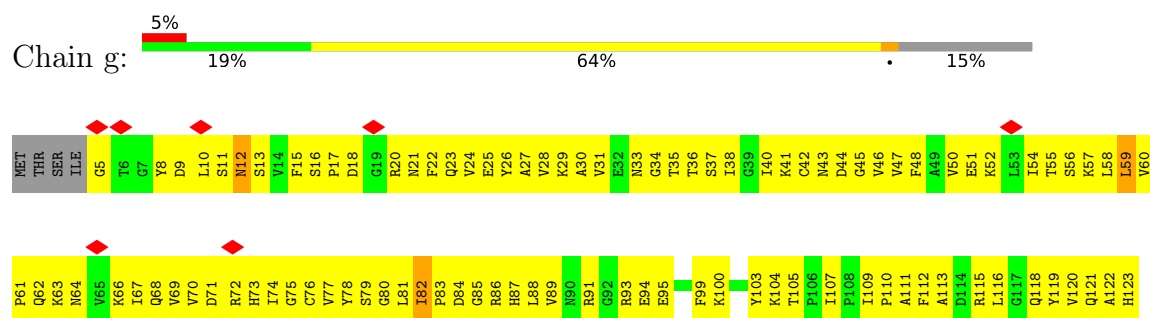
• Molecule 13: Proteasome subunit alpha type-6

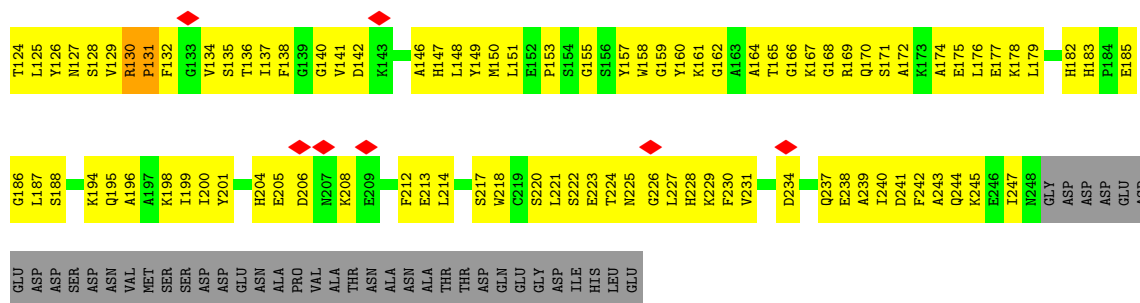


• Molecule 14: Probable proteasome subunit alpha type-7

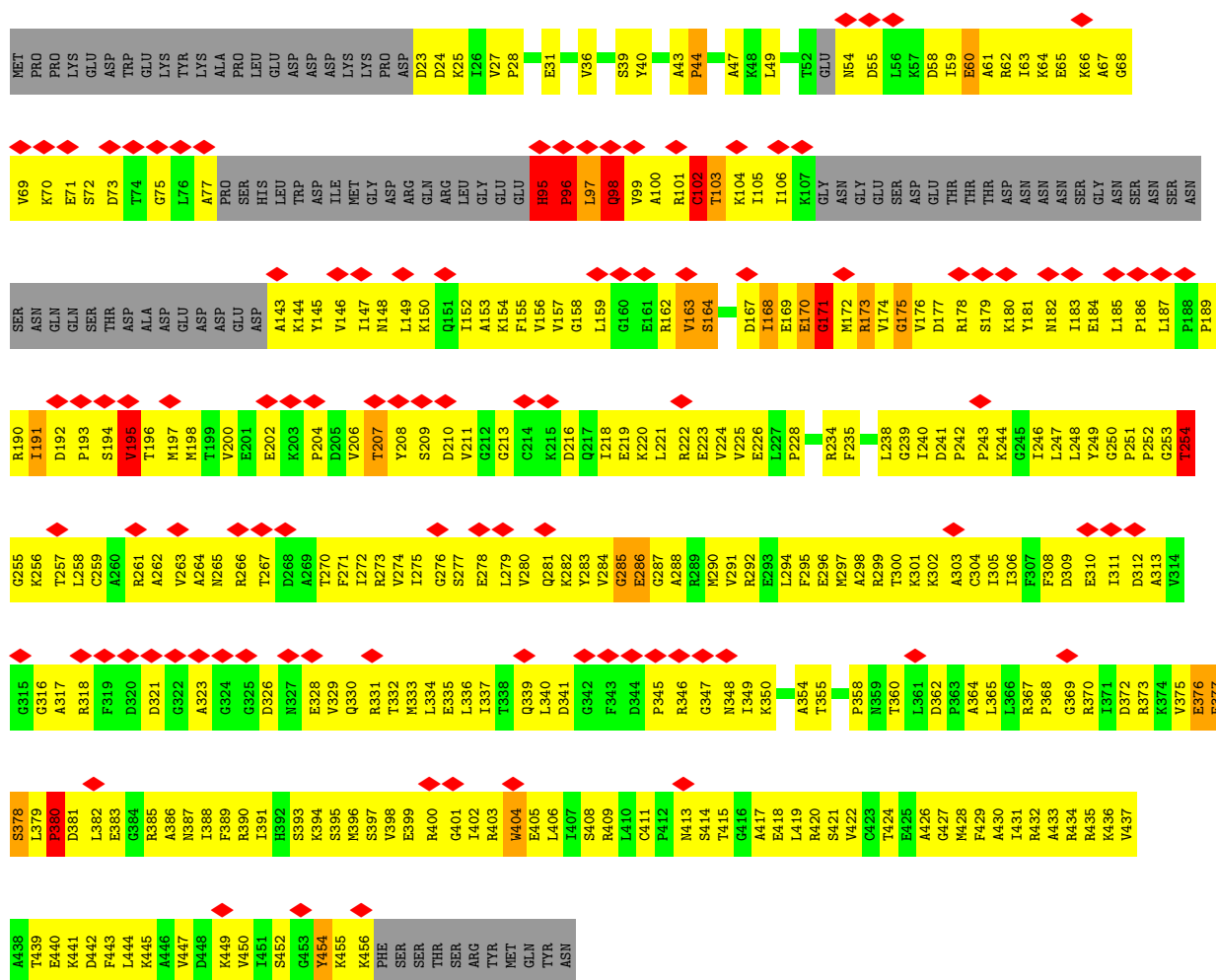


• Molecule 14: Probable proteasome subunit alpha type-7

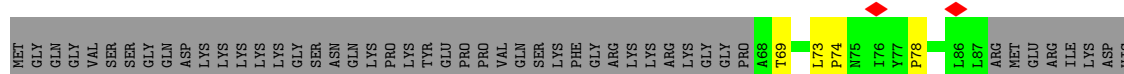


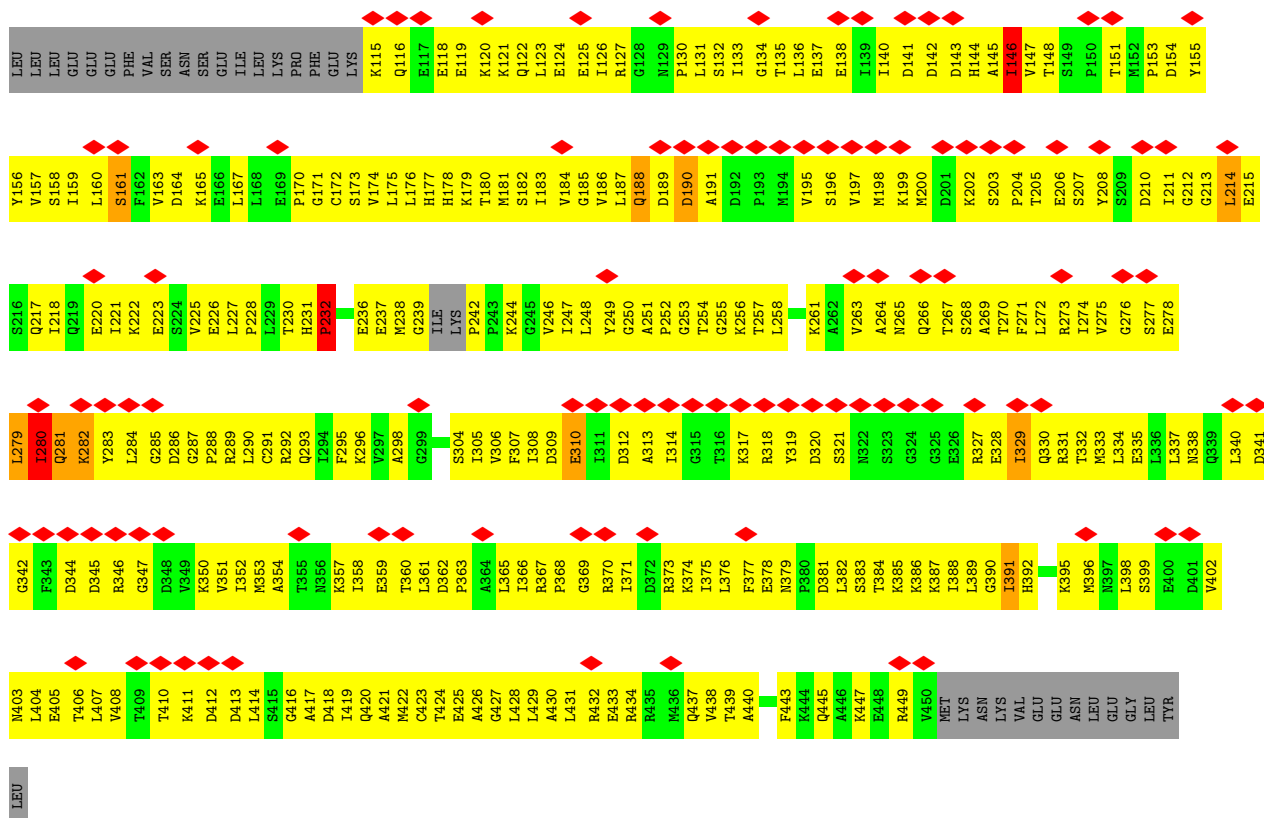


• Molecule 15: 26S protease regulatory subunit 7 homolog

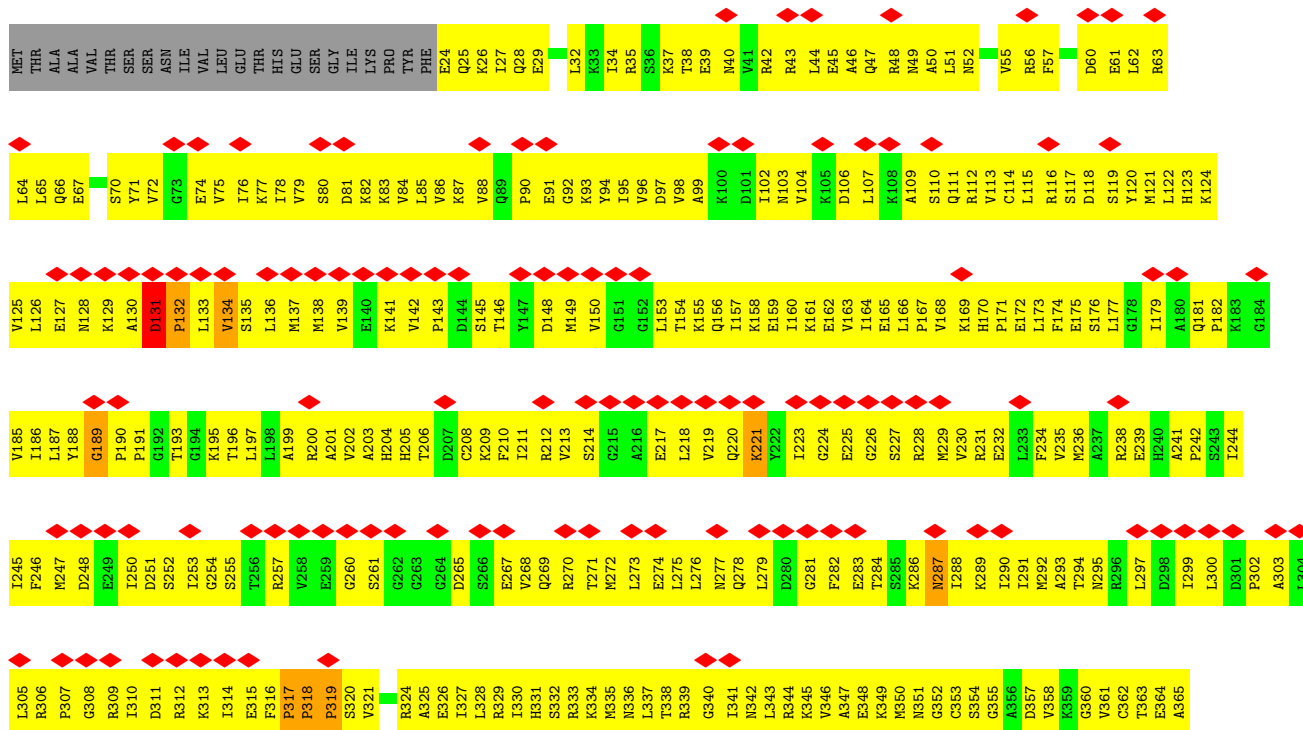
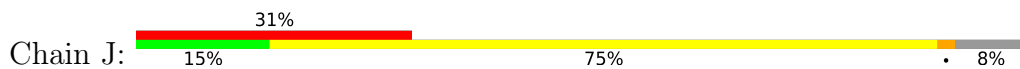


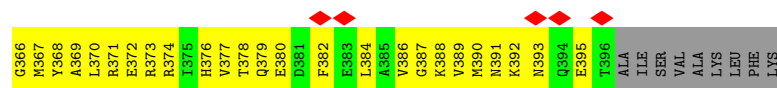
• Molecule 16: 26S protease regulatory subunit 4 homolog



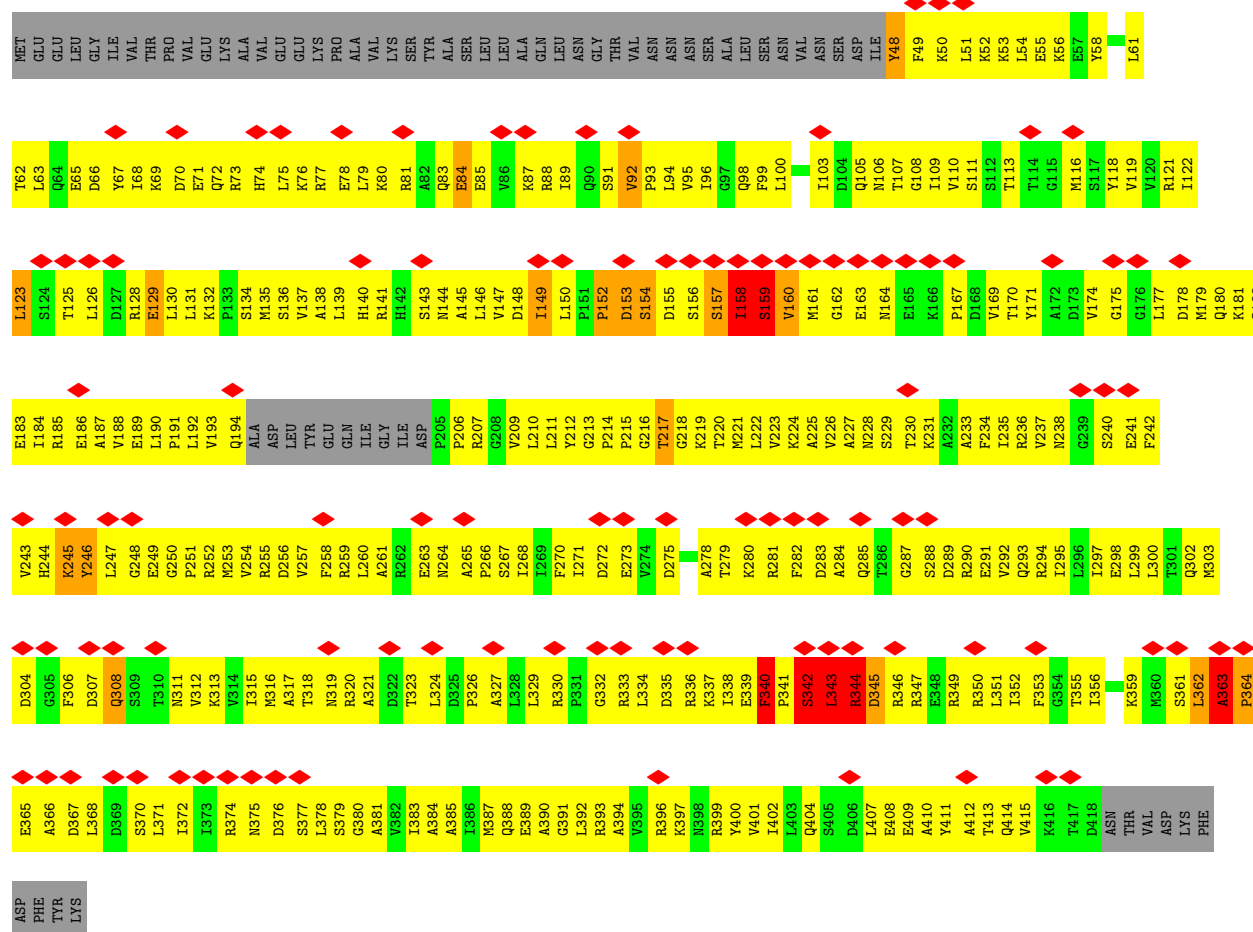
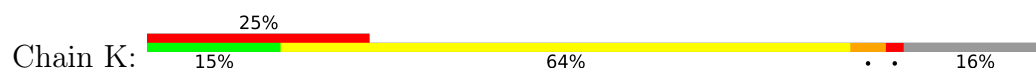


• Molecule 17: 26S protease regulatory subunit 8 homolog

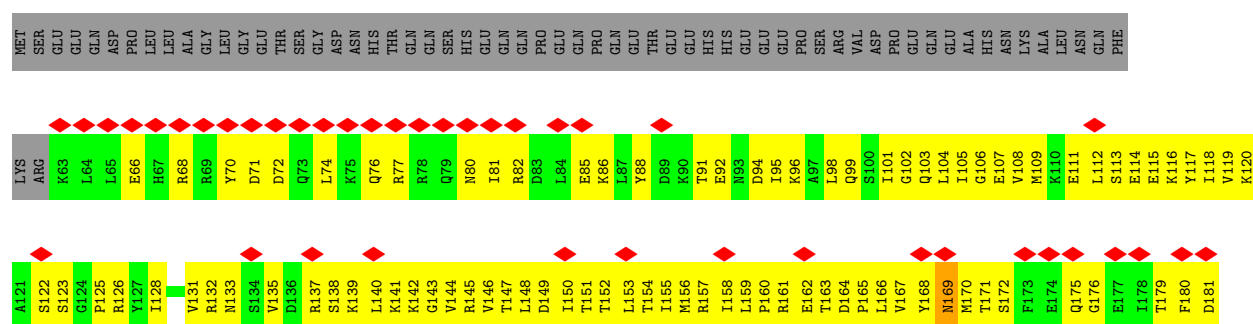
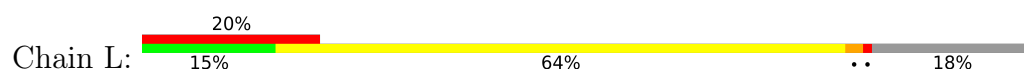


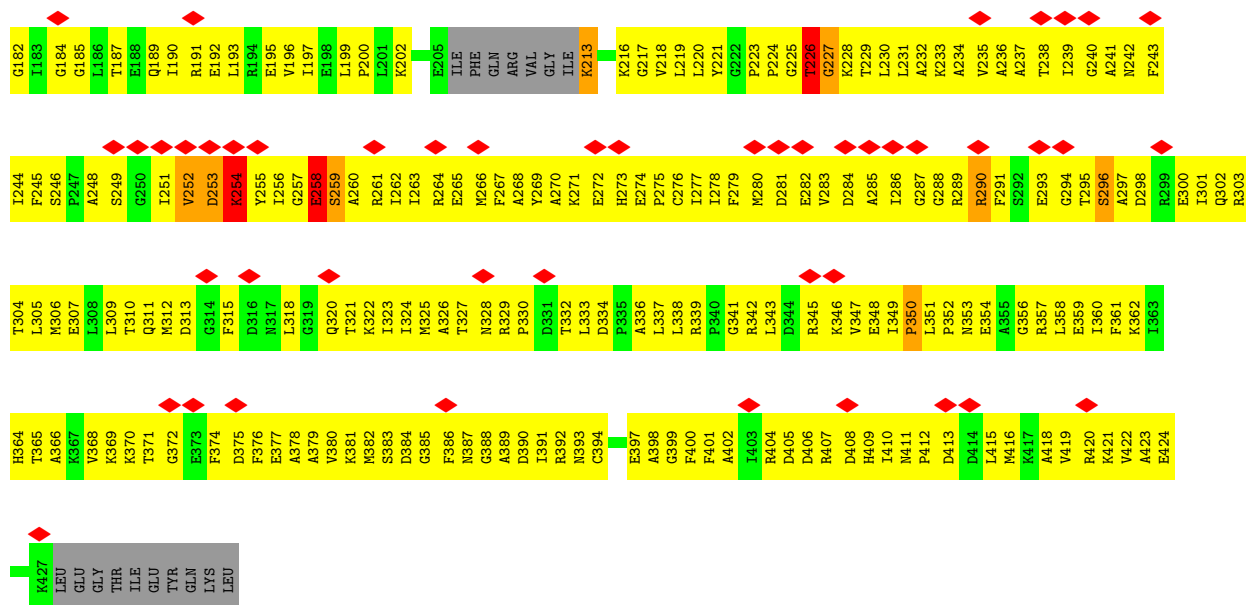


• Molecule 18: 26S protease regulatory subunit 6B homolog

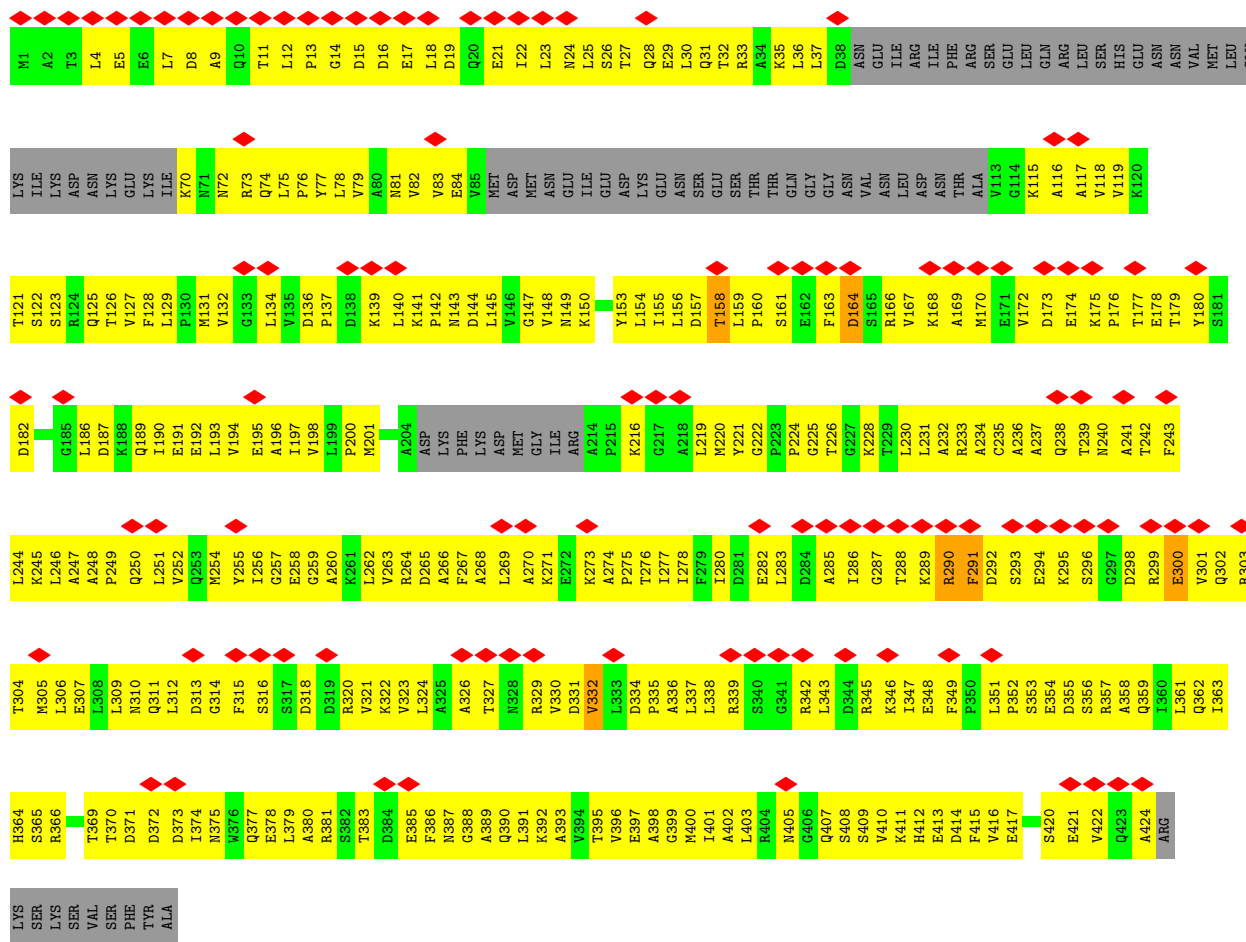


• Molecule 19: 26S protease subunit RPT4

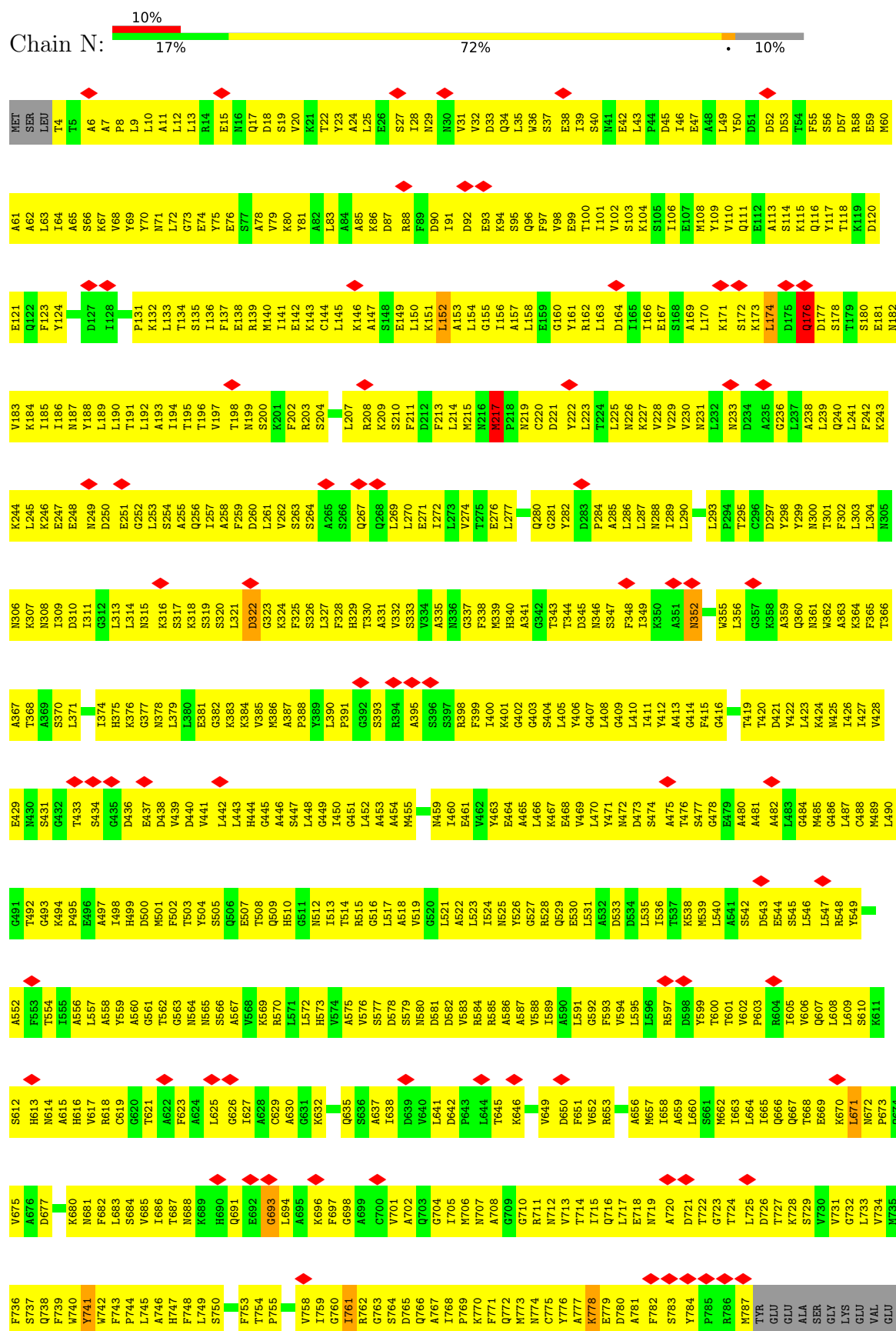


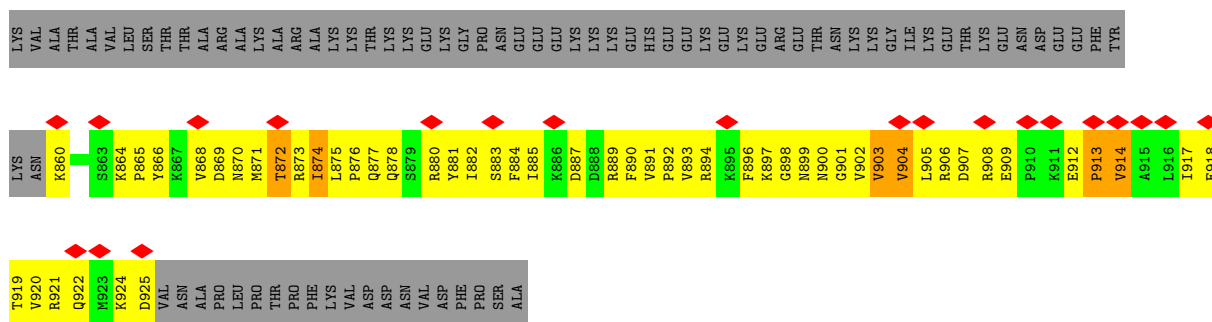


• Molecule 20: 26S protease regulatory subunit 6A

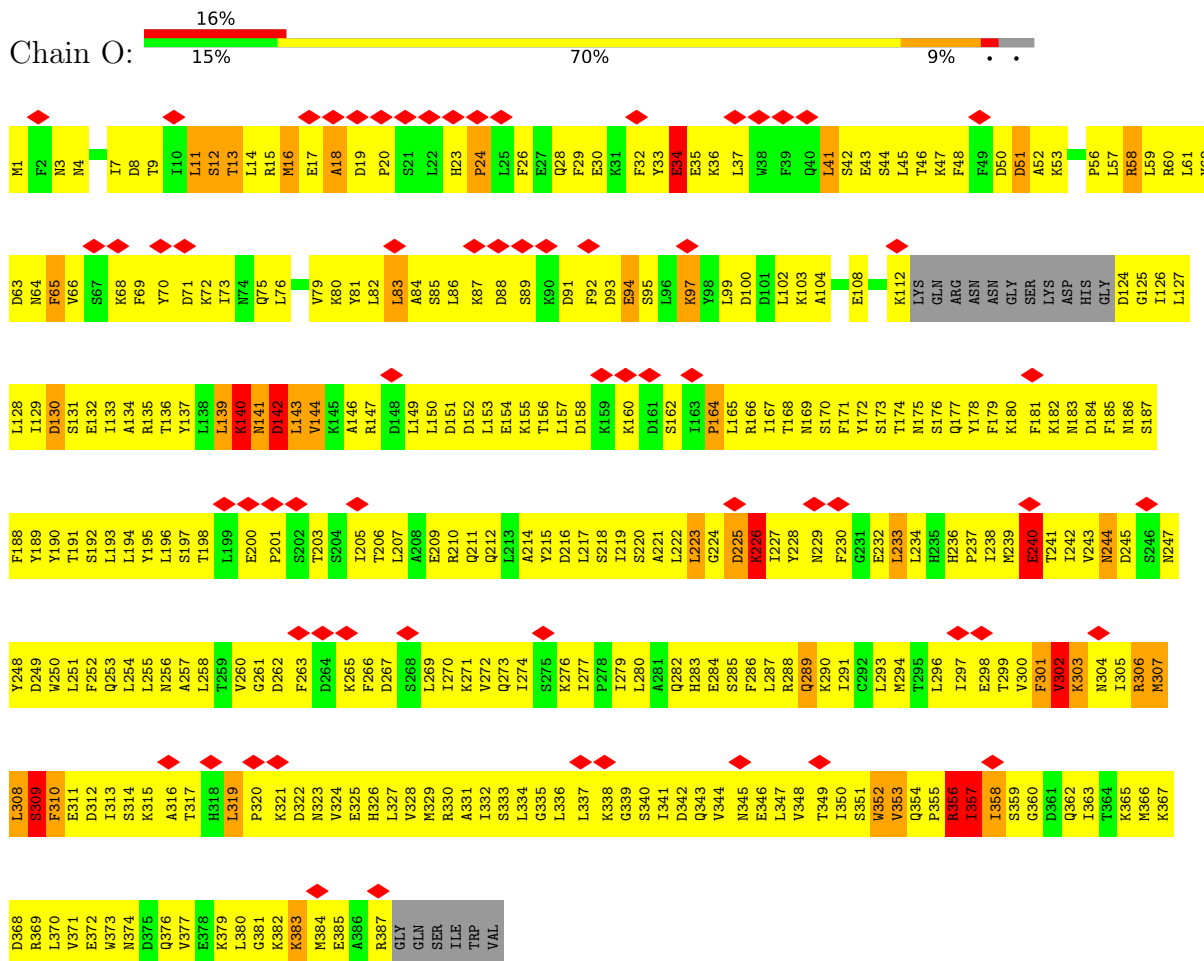


● Molecule 21: 26S proteasome regulatory subunit RPN2

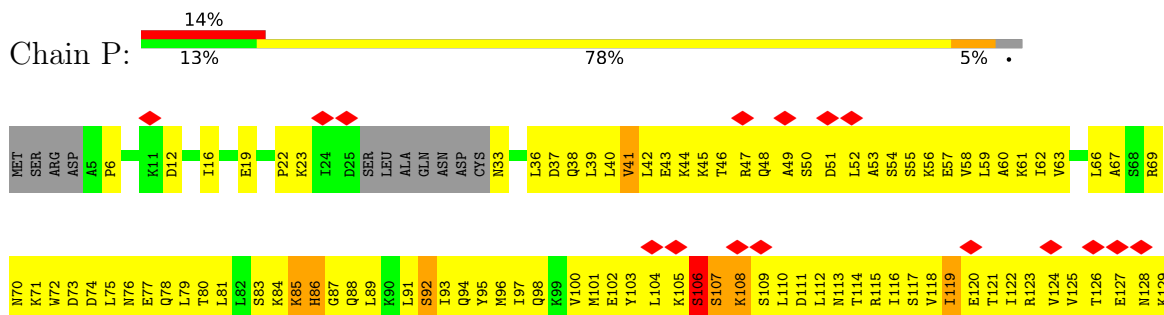


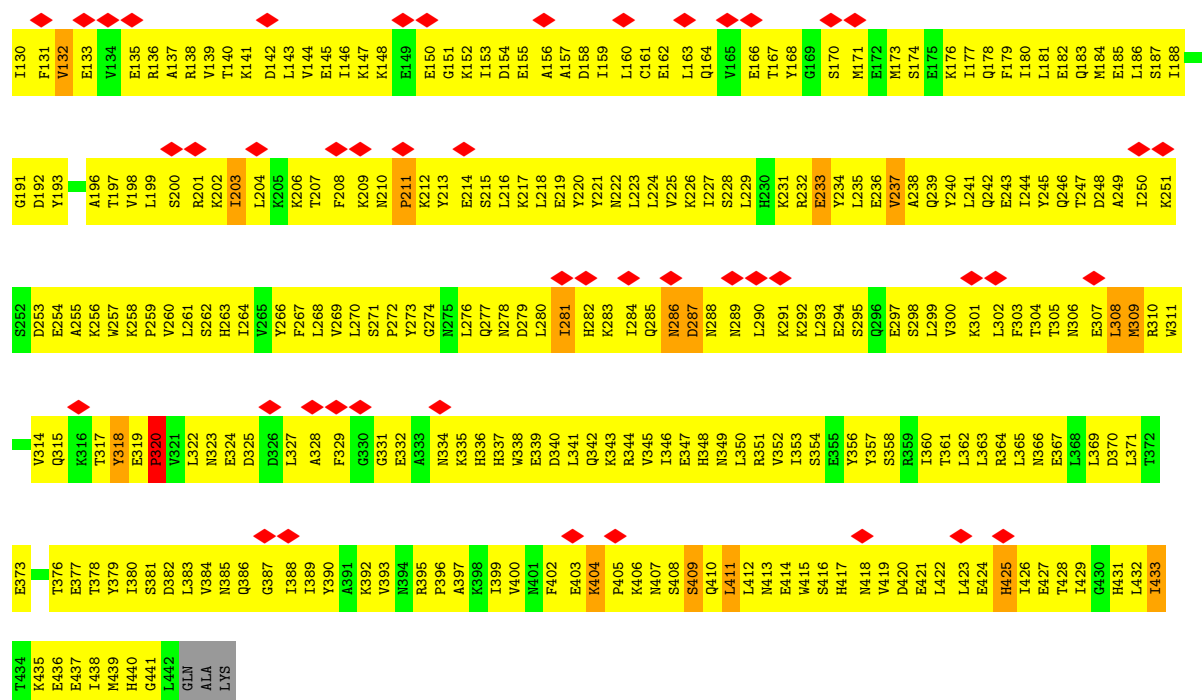


• Molecule 22: 26S proteasome regulatory subunit RPN9

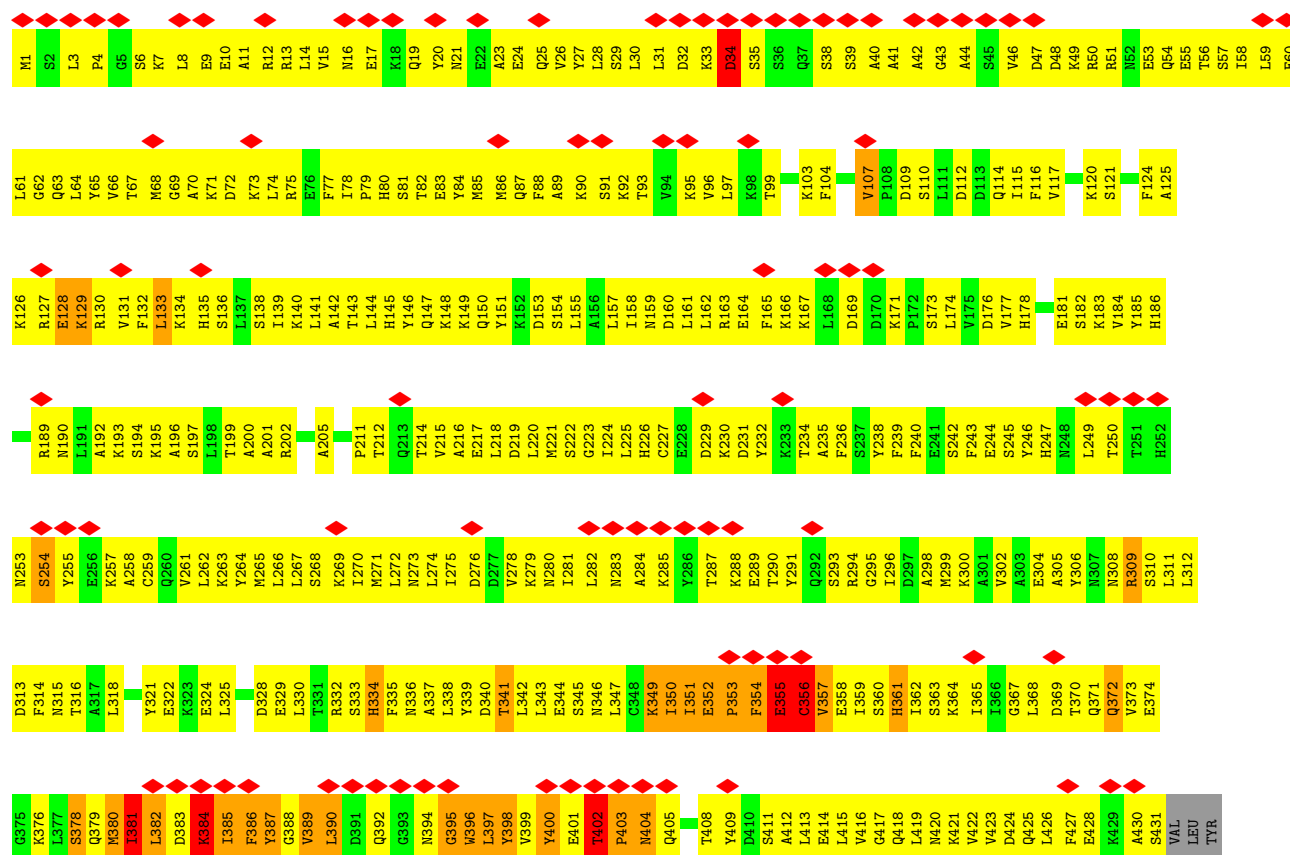


• Molecule 23: 26S proteasome regulatory subunit RPN5

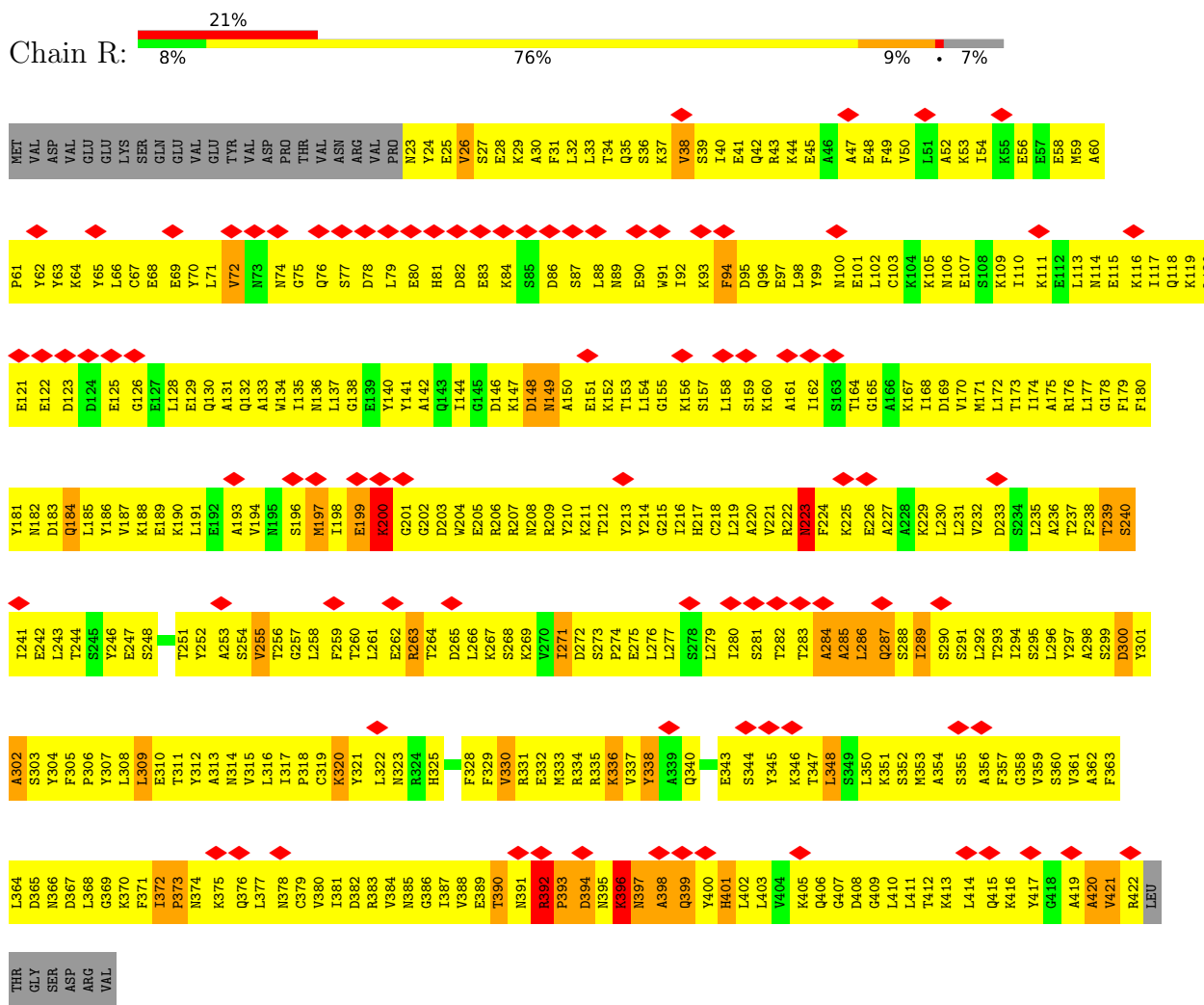




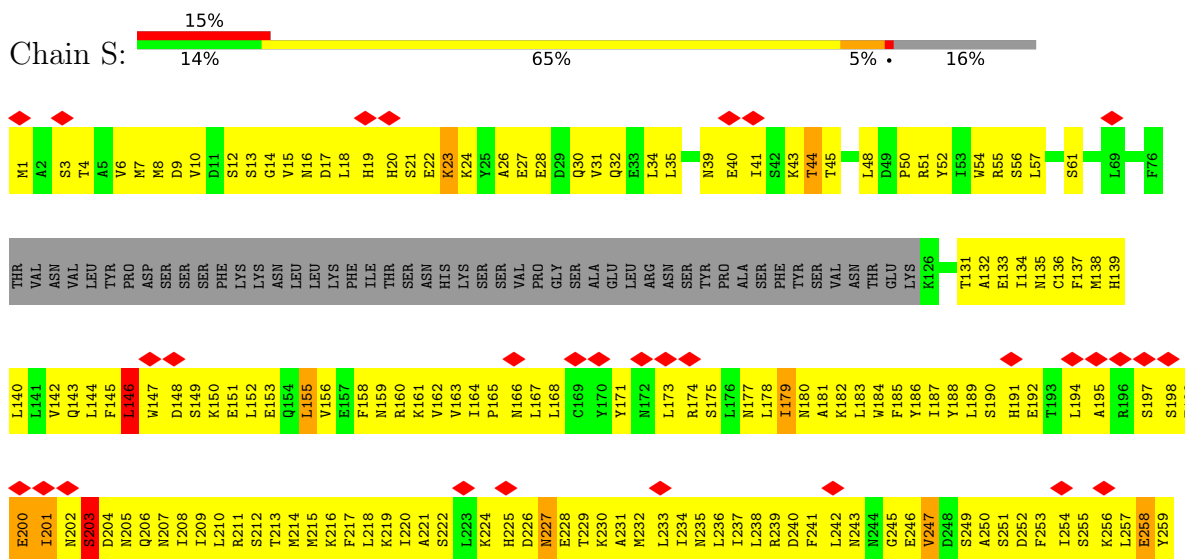
• Molecule 24: 26S proteasome regulatory subunit RPN6

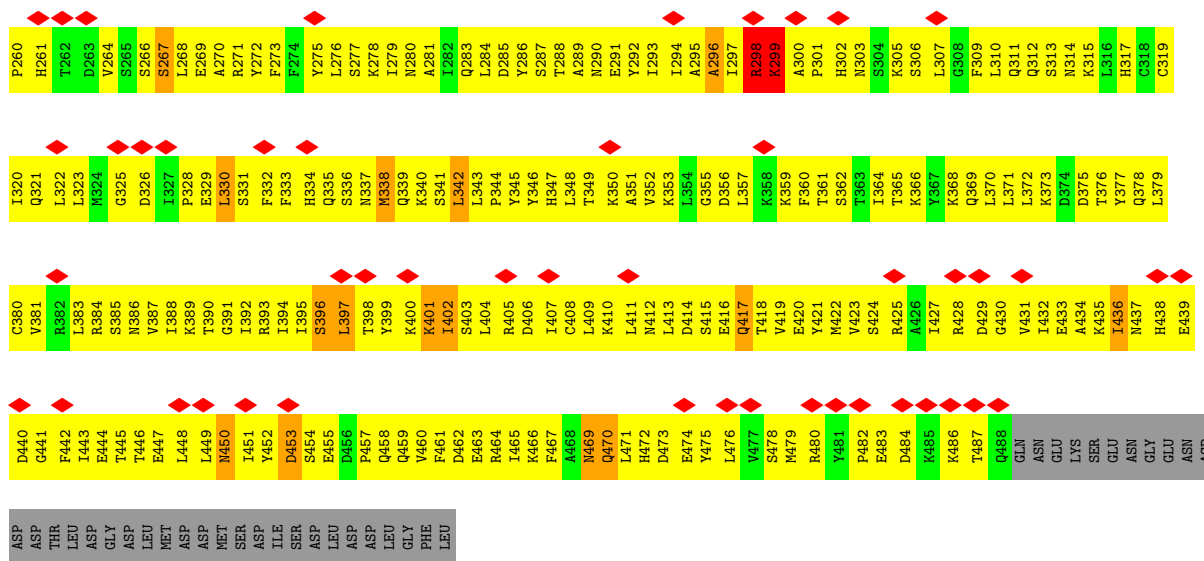


• Molecule 25: 26S proteasome regulatory subunit RPN7

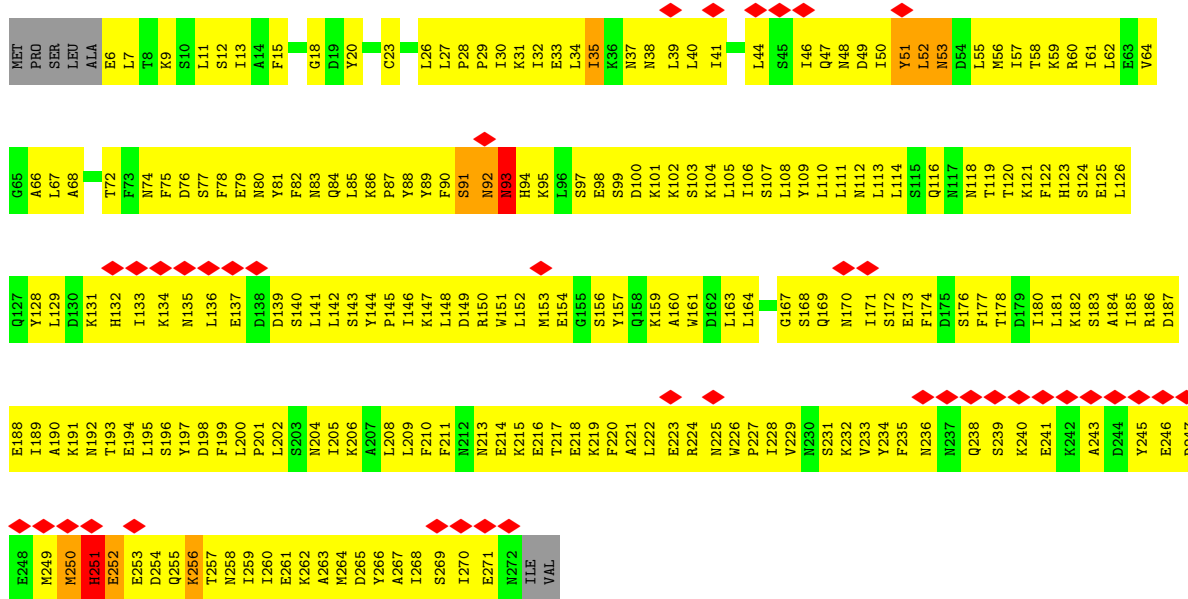


• Molecule 26: 26S proteasome regulatory subunit RPN3

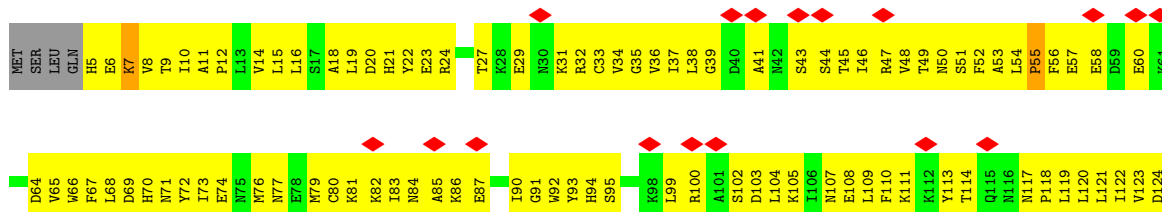
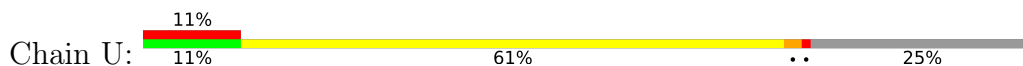


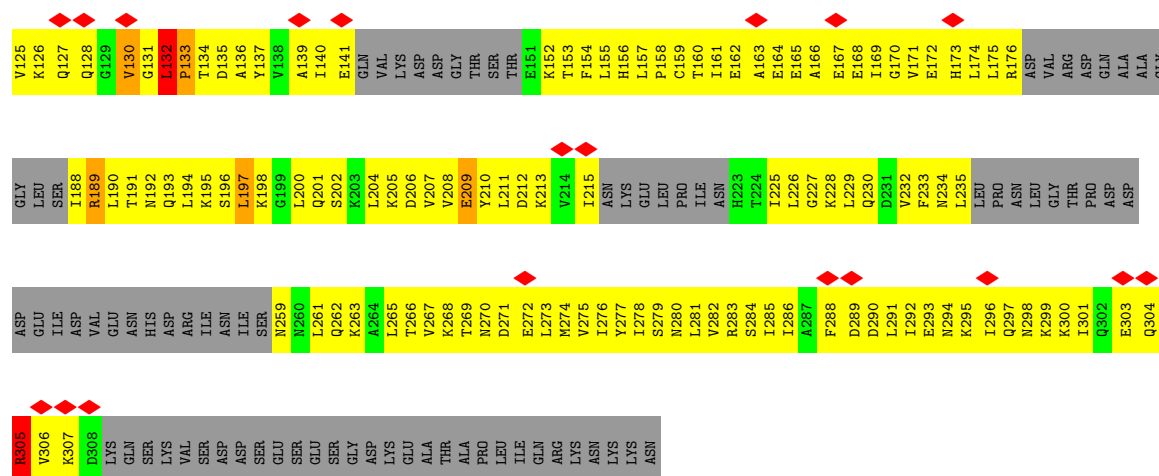


• Molecule 27: 26S proteasome regulatory subunit RPN12

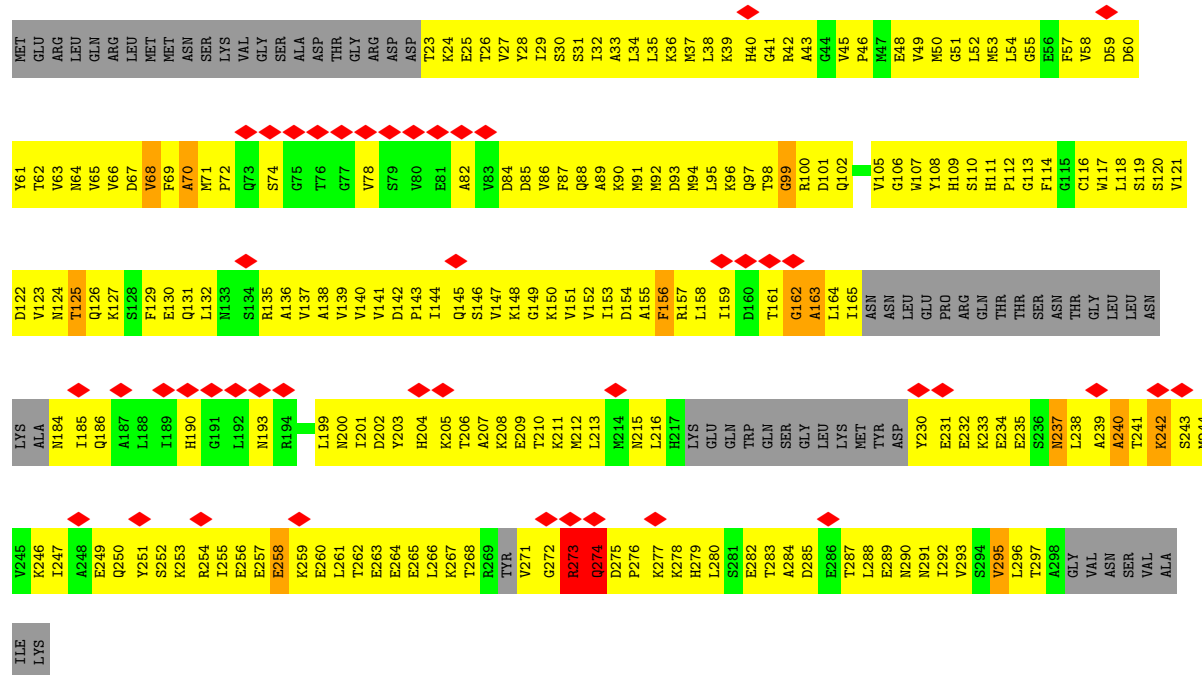
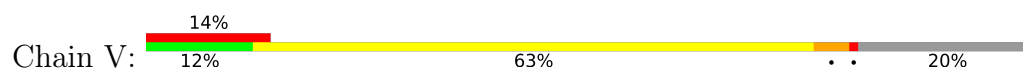


• Molecule 28: 26S proteasome regulatory subunit RPN8

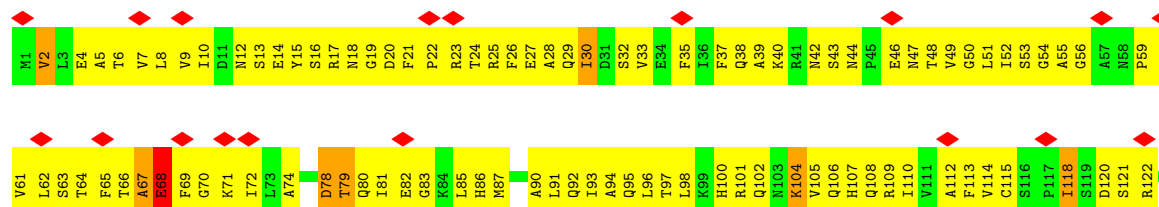
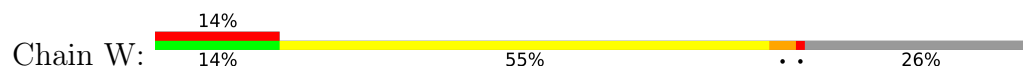


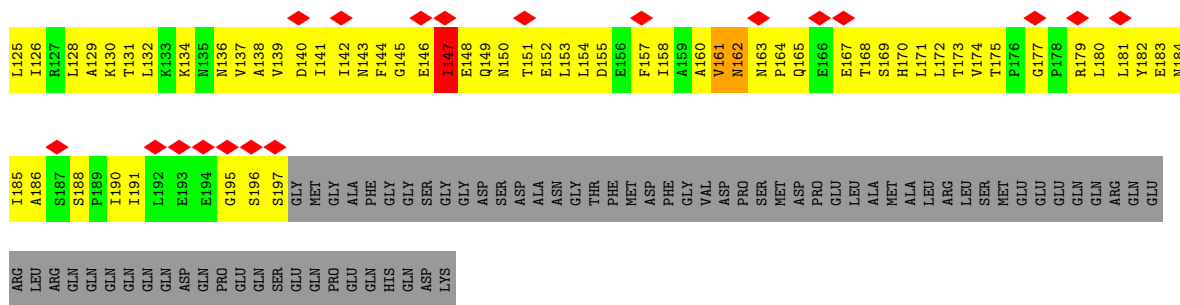


• Molecule 29: Ubiquitin carboxyl-terminal hydrolase RPN11

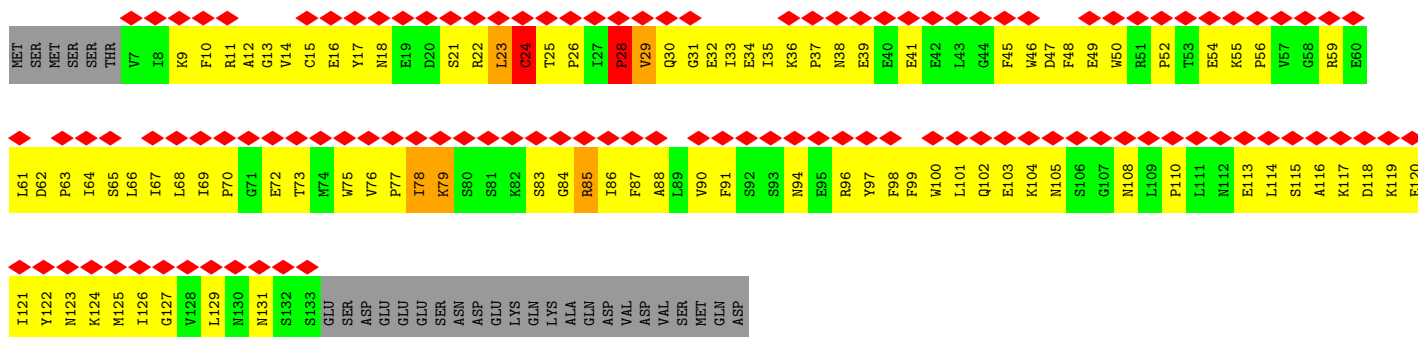
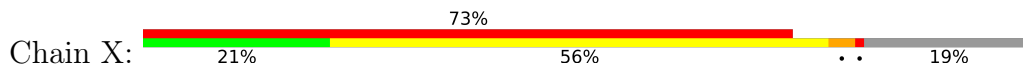


• Molecule 30: 26S proteasome regulatory subunit RPN10





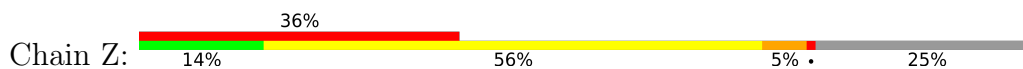
• Molecule 31: 26S proteasome regulatory subunit RPN13



• Molecule 32: 26S proteasome complex subunit SEM1



• Molecule 33: 26S proteasome regulatory subunit RPN1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	25151	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Each micrographs	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	1.5	Depositor
Maximum defocus (nm)	2.5	Depositor
Magnification	75000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.292	Depositor
Minimum map value	-0.121	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.015	Depositor
Recommended contour level	0.095	Depositor
Map size ($\text{\AA}$)	537.6, 537.6, 537.6	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	2.1, 2.1, 2.1	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	1	0.53	0/1795	0.68	0/2420
1	8	0.53	0/1795	0.70	0/2420
2	2	0.55	0/1855	0.67	0/2514
2	9	0.55	0/1855	0.67	0/2514
3	3	0.53	0/1602	0.63	0/2166
3	h	0.53	0/1603	0.63	0/2168
4	4	0.53	1/1715 (0.1%)	0.63	0/2326
4	i	0.53	1/1715 (0.1%)	0.63	0/2326
5	5	0.51	0/1611	0.67	2/2174 (0.1%)
5	j	0.51	0/1608	0.67	2/2170 (0.1%)
6	6	0.52	0/1613	0.64	0/2173
6	k	0.52	0/1613	0.64	0/2173
7	7	0.52	0/1681	0.64	0/2274
7	l	0.52	0/1681	0.64	0/2274
8	A	0.53	0/1959	0.67	0/2652
8	a	0.53	0/1959	0.67	0/2652
9	B	0.50	0/1952	0.63	0/2642
9	b	0.50	0/1952	0.63	0/2642
10	C	0.52	0/1934	0.67	1/2618 (0.0%)
10	c	0.52	0/1934	0.67	1/2618 (0.0%)
11	D	0.48	0/1919	0.66	0/2598
11	d	0.48	0/1919	0.66	0/2598
12	E	0.48	0/1886	0.64	0/2541
12	e	0.48	0/1886	0.64	0/2541
13	F	0.49	0/1823	0.68	0/2463
13	f	0.49	0/1823	0.67	0/2463
14	G	0.56	2/1936 (0.1%)	0.66	2/2614 (0.1%)
14	g	0.56	2/1936 (0.1%)	0.69	4/2614 (0.2%)
15	H	0.52	2/2915 (0.1%)	0.87	13/3927 (0.3%)
16	I	0.48	0/2681	0.84	7/3620 (0.2%)
17	J	0.50	1/2945 (0.0%)	0.80	4/3952 (0.1%)
18	K	0.58	3/2872 (0.1%)	0.90	12/3874 (0.3%)
19	L	0.50	1/2870 (0.0%)	0.83	3/3858 (0.1%)
20	M	0.49	0/2785	0.81	4/3763 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
21	N	0.42	0/6679	0.73	5/9037 (0.1%)
22	O	0.53	1/2958 (0.0%)	1.01	13/4005 (0.3%)
23	P	0.56	4/3520 (0.1%)	0.88	8/4752 (0.2%)
24	Q	0.47	0/3525	0.73	2/4745 (0.0%)
25	R	0.68	3/3240 (0.1%)	1.15	14/4371 (0.3%)
26	S	0.48	0/3439	0.93	10/4657 (0.2%)
27	T	0.46	1/2244 (0.0%)	0.78	3/3029 (0.1%)
28	U	0.48	0/2075	0.79	0/2795
29	V	0.51	0/1939	1.01	12/2613 (0.5%)
30	W	0.42	0/1557	0.80	2/2111 (0.1%)
31	X	0.36	0/1058	0.76	0/1432
32	Y	0.45	0/244	0.94	2/328 (0.6%)
33	Z	0.39	1/5787 (0.0%)	0.80	9/7857 (0.1%)
All	All	0.50	23/105893 (0.0%)	0.77	135/143074 (0.1%)

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
15	H	0	11
16	I	0	4
17	J	0	1
18	K	0	7
19	L	0	5
20	M	0	4
21	N	0	6
22	O	0	17
23	P	0	11
24	Q	0	6
25	R	0	5
26	S	0	16
27	T	0	4
28	U	0	7
29	V	0	6
30	W	0	6
31	X	0	6
32	Y	0	2
33	Z	0	7
All	All	0	131

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	R	330	VAL	C-N	26.10	1.69	1.33
22	O	34	GLU	C-N	9.32	1.45	1.33
18	K	363	ALA	C-N	9.28	1.41	1.33
18	K	149	ILE	C-N	-8.73	1.22	1.33
27	T	93	ASN	CA-C	-8.03	1.42	1.52
14	G	82	ILE	CA-CB	7.00	1.57	1.54
23	P	108	LYS	CA-C	6.97	1.61	1.53
14	g	82	ILE	CA-CB	6.92	1.57	1.54
17	J	189	GLY	C-N	6.60	1.41	1.33
23	P	107	SER	CA-C	5.83	1.61	1.53
23	P	287	ASP	CA-C	-5.62	1.47	1.53
23	P	108	LYS	N-CA	5.48	1.54	1.46
15	H	380	PRO	N-CD	5.46	1.55	1.47
19	L	350	PRO	C-N	-5.45	1.25	1.33
14	G	131	PRO	N-CD	5.33	1.55	1.47
14	g	131	PRO	N-CD	5.33	1.55	1.47
4	i	233	LYS	C-N	-5.12	1.23	1.33
4	4	233	LYS	C-N	-5.09	1.23	1.33
25	R	373	PRO	N-CD	5.04	1.54	1.47
15	H	96	PRO	N-CD	5.04	1.54	1.47
25	R	393	PRO	N-CD	5.01	1.54	1.47
18	K	364	PRO	N-CD	5.01	1.54	1.47
33	Z	788	PRO	N-CD	5.01	1.54	1.47

All (135) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	R	330	VAL	O-C-N	34.92	166.22	122.57
25	R	330	VAL	CA-C-N	-24.57	72.53	121.18
25	R	330	VAL	C-N-CA	-24.57	72.53	121.18
25	R	338	TYR	CB-CA-C	12.07	132.92	110.11
19	L	227	GLY	N-CA-C	-11.15	100.33	114.37
23	P	108	LYS	N-CA-C	10.98	122.73	108.24
23	P	287	ASP	N-CA-C	-10.12	98.37	111.02
29	V	70	ALA	CA-C-N	-9.96	107.32	120.67
29	V	70	ALA	C-N-CA	-9.96	107.32	120.67
33	Z	367	SER	CA-C-N	-9.51	109.23	122.92
33	Z	367	SER	C-N-CA	-9.51	109.23	122.92
22	O	240	GLU	N-CA-C	9.45	124.54	112.92
26	S	402	ILE	N-CA-C	-9.41	97.34	108.82
22	O	42	SER	N-CA-C	9.13	123.71	113.21
15	H	170	GLU	CB-CA-C	-9.09	104.98	115.79
33	Z	366	LYS	N-CA-C	9.05	122.03	109.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	S	299	LYS	CB-CG-CD	-8.90	90.83	111.30
22	O	58	ARG	N-CA-C	-8.87	102.60	113.15
33	Z	287	ARG	CB-CA-C	-8.37	105.84	117.23
21	N	671	LEU	N-CA-C	-8.17	102.06	110.97
23	P	309	MET	N-CA-C	-8.09	103.20	113.23
20	M	290	ARG	CB-CA-C	-7.93	106.36	115.79
18	K	152	PRO	CA-C-N	7.90	136.63	121.54
18	K	152	PRO	C-N-CA	7.90	136.63	121.54
29	V	99	GLY	N-CA-C	-7.80	104.56	115.32
10	c	223	GLY	N-CA-C	-7.59	104.02	114.64
10	C	223	GLY	N-CA-C	-7.57	104.05	114.64
26	S	299	LYS	CA-CB-CG	7.46	129.02	114.10
16	I	378	GLU	CA-C-N	-7.32	109.31	121.17
16	I	378	GLU	C-N-CA	-7.32	109.31	121.17
22	O	309	SER	N-CA-C	7.07	119.93	108.34
17	J	189	GLY	CA-C-N	-7.05	113.12	120.38
17	J	189	GLY	C-N-CA	-7.05	113.12	120.38
18	K	157	SER	N-CA-C	7.02	119.85	108.41
15	H	170	GLU	N-CA-C	6.98	122.16	109.32
19	L	350	PRO	CA-C-N	-6.90	110.19	120.68
19	L	350	PRO	C-N-CA	-6.90	110.19	120.68
22	O	34	GLU	O-C-N	6.79	130.18	123.46
15	H	380	PRO	N-CA-C	6.77	126.42	112.47
26	S	23	LYS	CA-C-N	6.74	133.82	121.70
26	S	23	LYS	C-N-CA	6.74	133.82	121.70
22	O	226	LYS	CA-C-N	-6.68	114.01	122.43
22	O	226	LYS	C-N-CA	-6.68	114.01	122.43
18	K	363	ALA	CA-C-N	-6.67	113.33	120.94
18	K	363	ALA	C-N-CA	-6.67	113.33	120.94
22	O	356	ARG	N-CA-C	6.67	117.29	107.88
23	P	22	PRO	N-CA-CB	6.66	110.57	103.52
18	K	92	VAL	N-CA-C	6.65	123.25	108.88
15	H	28	PRO	N-CA-CB	6.59	110.29	103.23
23	P	6	PRO	N-CA-CB	6.55	110.13	103.25
24	Q	34	ASP	N-CA-C	6.54	118.56	110.91
21	N	872	THR	CB-CA-C	-6.53	107.20	116.34
29	V	274	GLN	CA-C-N	6.46	129.37	120.39
29	V	274	GLN	C-N-CA	6.46	129.37	120.39
26	S	146	LEU	N-CA-C	-6.35	103.86	113.51
27	T	92	ASN	CA-C-N	6.34	133.64	121.54
27	T	92	ASN	C-N-CA	6.34	133.64	121.54
5	5	10	GLY	CA-C-N	-6.31	114.52	123.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	5	10	GLY	C-N-CA	-6.31	114.52	123.17
5	j	10	GLY	CA-C-N	-6.31	114.52	123.17
5	j	10	GLY	C-N-CA	-6.31	114.52	123.17
23	P	107	SER	N-CA-C	6.26	119.42	109.65
32	Y	63	ASN	N-CA-C	6.23	117.92	110.19
16	I	74	PRO	N-CA-CB	6.22	109.89	103.23
24	Q	361	HIS	N-CA-C	-6.16	104.25	110.97
14	G	59	LEU	CA-C-N	-6.16	117.38	123.04
14	G	59	LEU	C-N-CA	-6.16	117.38	123.04
22	O	319	LEU	N-CA-C	-6.11	100.91	110.14
21	N	152	LEU	CA-CB-CG	6.11	137.68	116.30
16	I	78	PRO	N-CA-CB	6.11	109.76	103.23
14	g	59	LEU	CA-C-N	-6.07	117.45	123.04
14	g	59	LEU	C-N-CA	-6.07	117.45	123.04
16	I	232	PRO	N-CA-CB	6.01	109.56	103.25
29	V	237	ASN	N-CA-C	6.00	117.69	111.03
33	Z	140	LEU	CA-CB-CG	-6.00	95.31	116.30
15	H	103	THR	N-CA-C	5.90	118.56	109.07
15	H	44	PRO	N-CA-CB	5.82	109.90	103.26
15	H	380	PRO	CA-N-CD	-5.71	104.00	112.00
23	P	106	SER	CA-C-N	5.70	134.15	123.09
23	P	106	SER	C-N-CA	5.70	134.15	123.09
33	Z	962	ARG	N-CA-C	5.65	118.65	110.28
25	R	372	ILE	O-C-N	5.61	124.06	120.07
26	S	397	LEU	CA-C-N	5.59	128.56	120.79
26	S	397	LEU	C-N-CA	5.59	128.56	120.79
20	M	225	GLY	N-CA-C	-5.55	108.48	115.08
21	N	217	MET	CA-C-N	-5.51	111.41	120.88
21	N	217	MET	C-N-CA	-5.51	111.41	120.88
14	g	130	ARG	CA-C-N	-5.50	112.97	119.84
14	g	130	ARG	C-N-CA	-5.50	112.97	119.84
25	R	309	LEU	CA-CB-CG	-5.49	97.07	116.30
30	W	147	ILE	N-CA-C	-5.45	98.00	109.34
16	I	188	GLN	CA-C-N	5.45	131.51	121.70
16	I	188	GLN	C-N-CA	5.45	131.51	121.70
33	Z	593	HIS	CA-C-N	-5.44	113.05	119.84
33	Z	593	HIS	C-N-CA	-5.44	113.05	119.84
22	O	51	ASP	N-CA-C	-5.43	106.50	113.02
26	S	155	LEU	CA-CB-CG	-5.43	97.29	116.30
20	M	158	THR	CA-C-N	-5.38	106.75	122.21
20	M	158	THR	C-N-CA	-5.38	106.75	122.21
17	J	287	ASN	N-CA-C	-5.36	106.32	112.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	V	273	ARG	CA-C-N	5.34	131.73	121.54
29	V	273	ARG	C-N-CA	5.34	131.73	121.54
29	V	277	LYS	CA-C-N	-5.33	114.30	121.71
29	V	277	LYS	C-N-CA	-5.33	114.30	121.71
22	O	226	LYS	N-CA-C	-5.32	96.12	111.00
25	R	300	ASP	CA-C-N	-5.28	114.37	121.71
25	R	300	ASP	C-N-CA	-5.28	114.37	121.71
15	H	102	CYS	CA-C-N	-5.24	115.77	123.00
15	H	102	CYS	C-N-CA	-5.24	115.77	123.00
25	R	392	ARG	CA-C-N	-5.22	113.32	119.84
25	R	392	ARG	C-N-CA	-5.22	113.32	119.84
15	H	95	HIS	CA-C-N	-5.20	113.34	119.84
15	H	95	HIS	C-N-CA	-5.20	113.34	119.84
25	R	271	ILE	N-CA-C	-5.18	104.92	110.36
25	R	200	LYS	N-CA-C	-5.17	106.81	113.01
25	R	372	ILE	CA-C-N	-5.17	113.38	119.84
25	R	372	ILE	C-N-CA	-5.17	113.38	119.84
26	S	330	LEU	N-CA-C	-5.17	106.95	113.20
17	J	226	GLY	N-CA-C	-5.12	106.58	112.73
18	K	159	SER	CA-C-N	5.12	131.19	121.97
18	K	159	SER	C-N-CA	5.12	131.19	121.97
18	K	158	ILE	CA-C-N	5.11	131.30	121.54
18	K	158	ILE	C-N-CA	5.11	131.30	121.54
15	H	285	GLY	N-CA-C	-5.09	107.97	115.30
32	Y	64	TRP	N-CA-C	5.06	118.23	111.24
33	Z	269	TYR	CA-CB-CG	5.06	123.01	113.90
30	W	54	GLY	N-CA-C	-5.05	106.98	115.62
22	O	225	ASP	CA-C-N	5.05	130.79	121.70
22	O	225	ASP	C-N-CA	5.05	130.79	121.70
27	T	53	ASN	N-CA-C	-5.05	100.05	110.80
18	K	340	PHE	CA-C-N	-5.04	113.54	119.84
18	K	340	PHE	C-N-CA	-5.04	113.54	119.84
15	H	404	TRP	CA-CB-CG	-5.02	104.07	113.60
29	V	237	ASN	CA-C-N	5.00	130.70	121.70
29	V	237	ASN	C-N-CA	5.00	130.70	121.70

There are no chirality outliers.

All (131) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
15	H	102	CYS	Peptide
15	H	164	SER	Peptide

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Mol	Chain	Res	Type	Group
15	H	171	GLY	Peptide
15	H	173	ARG	Peptide
15	H	175	GLY	Peptide
15	H	191	ILE	Peptide
15	H	195	VAL	Peptide
15	H	207	THR	Peptide
15	H	254	THR	Peptide
15	H	302	LYS	Peptide
15	H	376	GLU	Peptide
16	I	146	ILE	Peptide
16	I	161	SER	Peptide
16	I	190	ASP	Peptide
16	I	214	LEU	Peptide
17	J	193	THR	Peptide
18	K	123	LEU	Peptide
18	K	153	ASP	Peptide
18	K	154	SER	Peptide
18	K	217	THR	Peptide
18	K	307	ASP	Peptide
18	K	308	GLN	Peptide
18	K	48	TYR	Peptide
19	L	169	ASN	Peptide
19	L	213	LYS	Peptide
19	L	226	THR	Peptide
19	L	290	ARG	Peptide
19	L	296	SER	Peptide
20	M	164	ASP	Peptide
20	M	291	PHE	Peptide
20	M	372	ASP	Peptide
20	M	374	ILE	Peptide
21	N	217	MET	Peptide
21	N	322	ASP	Peptide
21	N	352	ASN	Peptide
21	N	693	GLY	Peptide
21	N	765	ASP	Peptide
21	N	778	LYS	Peptide
22	O	164	PRO	Peptide
22	O	223	LEU	Peptide
22	O	226	LYS	Peptide
22	O	240	GLU	Peptide
22	O	244	ASN	Peptide
22	O	301	PHE	Peptide

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Mol	Chain	Res	Type	Group
22	O	302	VAL	Peptide
22	O	306	ARG	Peptide
22	O	308	LEU	Peptide
22	O	309	SER	Peptide
22	O	310	PHE	Peptide
22	O	34	GLU	Peptide
22	O	383	LYS	Peptide
22	O	41	LEU	Peptide
22	O	51	ASP	Peptide
22	O	52	ALA	Peptide
22	O	53	LYS	Peptide
23	P	106	SER	Peptide
23	P	203	ILE	Peptide
23	P	211	PRO	Peptide
23	P	233	GLU	Peptide
23	P	286	ASN	Peptide
23	P	308	LEU	Peptide
23	P	318	TYR	Peptide
23	P	320	PRO	Peptide
23	P	332	GLU	Peptide
23	P	409	SER	Peptide
23	P	86	HIS	Peptide
24	Q	107	VAL	Peptide
24	Q	128	GLU	Peptide
24	Q	129	LYS	Peptide
24	Q	133	LEU	Peptide
24	Q	254	SER	Peptide
24	Q	34	ASP	Peptide
25	R	184	GLN	Peptide
25	R	223	ASN	Peptide
25	R	240	SER	Peptide
25	R	302	ALA	Peptide
25	R	94	PHE	Peptide
26	S	146	LEU	Peptide
26	S	203	SER	Peptide
26	S	227	ASN	Peptide
26	S	247	VAL	Peptide
26	S	258	GLU	Peptide
26	S	296	ALA	Peptide
26	S	298	ARG	Peptide
26	S	338	MET	Peptide
26	S	342	LEU	Peptide

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Mol	Chain	Res	Type	Group
26	S	396	SER	Peptide
26	S	401	LYS	Peptide
26	S	417	GLN	Peptide
26	S	436	ILE	Peptide
26	S	44	THR	Peptide
26	S	450	ASN	Peptide
26	S	469	ASN	Peptide
27	T	51	TYR	Peptide
27	T	52	LEU	Peptide
27	T	91	SER	Peptide
27	T	93	ASN	Peptide
28	U	132	LEU	Peptide
28	U	189	ARG	Peptide
28	U	197	LEU	Peptide
28	U	289	ASP	Peptide
28	U	305	ARG	Peptide
28	U	55	PRO	Peptide
28	U	7	LYS	Peptide
29	V	156	PHE	Peptide
29	V	161	THR	Peptide
29	V	162	GLY	Peptide
29	V	273	ARG	Peptide
29	V	295	VAL	Peptide
29	V	70	ALA	Peptide
30	W	104	LYS	Peptide
30	W	146	GLU	Peptide
30	W	147	ILE	Peptide
30	W	161	VAL	Peptide
30	W	162	ASN	Peptide
30	W	2	VAL	Peptide
31	X	23	LEU	Peptide
31	X	24	CYS	Peptide
31	X	28	PRO	Peptide
31	X	52	PRO	Peptide
31	X	79	LYS	Peptide
31	X	85	ARG	Peptide
32	Y	62	GLU	Peptide
32	Y	65	ASP	Peptide
33	Z	132	HIS	Peptide
33	Z	142	ASP	Peptide
33	Z	265	LEU	Peptide
33	Z	325	GLY	Peptide

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Mol	Chain	Res	Type	Group
33	Z	839	SER	Peptide
33	Z	891	PRO	Peptide
33	Z	920	GLY	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	1	1757	0	1708	226	0
1	8	1757	0	1708	221	0
2	2	1824	0	1829	235	0
2	9	1824	0	1829	219	0
3	3	1573	0	1546	188	0
3	h	1574	0	1547	194	0
4	4	1684	0	1685	194	0
4	i	1684	0	1685	217	0
5	5	1581	0	1571	194	0
5	j	1578	0	1567	197	0
6	6	1585	0	1590	204	0
6	k	1585	0	1590	191	0
7	7	1644	0	1592	216	0
7	l	1644	0	1592	208	0
8	A	1921	0	1910	204	0
8	a	1921	0	1910	218	0
9	B	1915	0	1929	194	0
9	b	1915	0	1929	218	0
10	C	1904	0	1901	195	0
10	c	1904	0	1901	226	0
11	D	1890	0	1900	204	0
11	d	1890	0	1900	231	0
12	E	1861	0	1836	185	0
12	e	1861	0	1836	208	0
13	F	1795	0	1797	215	0
13	f	1795	0	1797	226	0
14	G	1896	0	1886	270	0
14	g	1896	0	1886	283	0
15	H	2877	0	2891	586	0
16	I	2652	0	2610	528	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
17	J	2914	0	3016	541	0
18	K	2835	0	2909	548	0
19	L	2829	0	2902	552	0
20	M	2754	0	2799	465	0
21	N	6570	0	6630	951	0
22	O	2912	0	2817	627	0
23	P	3470	0	3500	712	0
24	Q	3469	0	3485	869	0
25	R	3187	0	3152	903	0
26	S	3384	0	3238	768	0
27	T	2201	0	2167	385	0
28	U	2049	0	2099	443	0
29	V	1912	0	1906	363	0
30	W	1534	0	1542	260	0
31	X	1032	0	1017	132	0
32	Y	243	0	183	34	0
33	Z	5688	0	5564	1190	0
All	All	104170	0	103784	15053	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 72.

All (15053) 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:Q:314:PHE:HE1	24:Q:335:PHE:CE2	1.02	1.70
24:Q:314:PHE:CE1	24:Q:335:PHE:CE2	1.80	1.67
25:R:384:VAL:CG2	26:S:406:ASP:HB2	1.31	1.59
24:Q:309:ARG:HB2	24:Q:349:LYS:CB	1.29	1.58
33:Z:605:SER:HB3	33:Z:878:LEU:CG	1.27	1.56
22:O:83:LEU:CD2	22:O:102:LEU:CD2	1.83	1.55
24:Q:383:ASP:CB	24:Q:384:LYS:HD3	1.23	1.55
30:W:66:THR:CG2	30:W:71:LYS:HE3	1.33	1.55
24:Q:309:ARG:CB	24:Q:349:LYS:HG3	1.35	1.54
24:Q:309:ARG:HB2	24:Q:349:LYS:CG	1.16	1.53
23:P:396:PRO:HG2	24:Q:356:CYS:C	1.25	1.53
25:R:400:TYR:CE1	26:S:461:PHE:CZ	1.97	1.52
24:Q:339:TYR:CD1	24:Q:342:LEU:HD12	1.44	1.51
33:Z:567:ALA:CB	33:Z:595:MET:CB	1.88	1.51
25:R:200:LYS:CE	25:R:202:GLY:HA2	1.41	1.50
25:R:330:VAL:C	25:R:331:ARG:N	1.69	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:372:ILE:N	25:R:377:LEU:HD12	1.28	1.49
24:Q:383:ASP:HB2	24:Q:384:LYS:CD	1.41	1.47
24:Q:405:GLN:HG2	25:R:395:ASN:CB	1.45	1.47
33:Z:567:ALA:HB2	33:Z:595:MET:CB	1.43	1.46
24:Q:401:GLU:HB2	25:R:392:ARG:NH1	1.19	1.46
25:R:330:VAL:C	25:R:331:ARG:CA	1.87	1.45
33:Z:605:SER:CA	33:Z:878:LEU:HD11	1.39	1.45
16:I:281:GLN:CG	17:J:223:ILE:HA	1.45	1.45
25:R:384:VAL:HG23	26:S:406:ASP:CB	0.98	1.44
25:R:146:ASP:HB3	25:R:148:ASP:CG	1.34	1.44
25:R:371:PHE:C	25:R:377:LEU:CD1	1.90	1.44
23:P:392:LYS:CE	24:Q:354:PHE:HB2	1.45	1.44
33:Z:861:THR:HG21	33:Z:962:ARG:NH1	1.15	1.42
33:Z:761:PHE:CD2	33:Z:780:MET:SD	2.12	1.41
13:F:11:VAL:CG2	14:G:128:SER:O	1.67	1.41
24:Q:302:VAL:CG1	24:Q:335:PHE:CZ	2.02	1.41
25:R:380:VAL:CA	26:S:398:THR:HG22	1.47	1.41
33:Z:605:SER:O	33:Z:878:LEU:CD2	1.66	1.41
22:O:3:ASN:O	22:O:7:ILE:CB	1.68	1.40
24:Q:383:ASP:CB	24:Q:384:LYS:CD	1.97	1.40
25:R:330:VAL:CA	25:R:331:ARG:N	1.85	1.39
24:Q:382:LEU:CD1	24:Q:402:THR:HG23	1.52	1.39
22:O:7:ILE:O	22:O:11:LEU:CB	1.69	1.38
33:Z:275:GLN:HG2	33:Z:278:LEU:CD2	1.53	1.38
33:Z:269:TYR:HA	33:Z:272:TYR:CE2	1.58	1.38
22:O:15:ARG:H	22:O:16:MET:CB	1.33	1.38
22:O:83:LEU:CD2	22:O:102:LEU:HD22	0.92	1.38
24:Q:314:PHE:CD2	24:Q:339:TYR:CD1	2.12	1.38
23:P:393:VAL:HB	24:Q:352:GLU:C	1.46	1.37
25:R:380:VAL:HA	26:S:398:THR:CG2	1.53	1.37
33:Z:605:SER:CB	33:Z:878:LEU:HD21	1.55	1.36
33:Z:585:LEU:CD1	33:Z:603:VAL:HG21	1.55	1.36
33:Z:568:LEU:HD23	33:Z:599:ILE:CG1	1.52	1.36
25:R:380:VAL:HG13	26:S:398:THR:O	1.20	1.35
33:Z:753:GLY:HA2	33:Z:755:GLU:N	1.42	1.34
33:Z:783:VAL:CG1	33:Z:787:ASP:O	1.73	1.34
15:H:96:PRO:CG	16:I:137:GLU:HG2	1.58	1.34
33:Z:605:SER:HA	33:Z:878:LEU:CD1	1.59	1.33
24:Q:378:SER:O	24:Q:386:PHE:HB3	1.24	1.32
3:h:20:THR:CB	3:h:36:ASP:CG	2.02	1.32
33:Z:605:SER:CB	33:Z:878:LEU:CD2	2.07	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:372:GLN:NE2	24:Q:376:LYS:HZ3	1.27	1.32
3:h:20:THR:CB	3:h:36:ASP:OD1	1.77	1.32
18:K:243:VAL:HG21	19:L:303:ARG:CD	1.59	1.31
19:L:254:LYS:HB3	20:M:255:TYR:CD1	1.62	1.31
25:R:384:VAL:CG2	26:S:406:ASP:CB	1.90	1.31
33:Z:602:LEU:HD21	33:Z:882:LEU:CD2	1.57	1.31
33:Z:243:GLN:CD	33:Z:244:ARG:H	1.38	1.31
15:H:96:PRO:HD3	16:I:138:GLU:CG	1.59	1.30
25:R:259:PHE:CD1	25:R:333:MET:HG2	1.65	1.30
24:Q:389:VAL:CB	25:R:347:THR:O	1.79	1.30
25:R:372:ILE:CA	25:R:377:LEU:HD12	1.60	1.29
23:P:393:VAL:CB	24:Q:352:GLU:O	1.80	1.29
25:R:146:ASP:CB	25:R:148:ASP:OD1	1.78	1.29
33:Z:605:SER:CB	33:Z:878:LEU:CG	2.10	1.29
33:Z:861:THR:CG2	33:Z:962:ARG:HH12	1.46	1.29
24:Q:302:VAL:CG1	24:Q:335:PHE:HZ	1.41	1.29
23:P:392:LYS:HE3	24:Q:354:PHE:CB	1.61	1.28
33:Z:603:VAL:O	33:Z:606:CYS:SG	1.91	1.28
33:Z:585:LEU:HG	33:Z:603:VAL:CG1	1.62	1.28
15:H:96:PRO:CG	16:I:138:GLU:HG2	1.63	1.27
25:R:371:PHE:O	25:R:377:LEU:HG	1.25	1.27
15:H:96:PRO:HB3	15:H:192:ASP:O	1.15	1.27
26:S:422:MET:O	26:S:425:ARG:HG2	1.27	1.27
28:U:140:ILE:O	28:U:141:GLU:HG2	1.26	1.27
33:Z:291:GLU:HB2	33:Z:294:ILE:CD1	1.64	1.27
24:Q:405:GLN:CG	25:R:395:ASN:HB2	1.64	1.27
24:Q:356:CYS:O	24:Q:357:VAL:CG1	1.81	1.26
33:Z:602:LEU:CD2	33:Z:882:LEU:HD23	1.65	1.26
33:Z:291:GLU:OE1	33:Z:294:ILE:HD12	1.35	1.26
24:Q:309:ARG:CB	24:Q:349:LYS:HB2	1.63	1.26
24:Q:309:ARG:CB	24:Q:349:LYS:CG	1.95	1.26
18:K:288:SER:OG	19:L:256:ILE:HG22	1.17	1.25
24:Q:302:VAL:HG11	24:Q:335:PHE:CE1	1.70	1.25
25:R:259:PHE:CD1	25:R:333:MET:HE3	1.71	1.25
2:2:42:THR:CG2	2:2:74:ARG:NH2	2.00	1.25
33:Z:747:ALA:CB	33:Z:761:PHE:HZ	1.49	1.25
24:Q:382:LEU:HD11	24:Q:402:THR:CG2	1.67	1.25
33:Z:784:SER:HA	33:Z:788:PRO:CG	1.64	1.25
17:J:128:ASN:O	17:J:129:LYS:HE2	1.08	1.24
22:O:83:LEU:HD21	22:O:102:LEU:CD2	1.45	1.24
24:Q:401:GLU:CB	25:R:392:ARG:NH1	1.99	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:42:THR:CG2	2:9:74:ARG:NH2	1.99	1.24
22:O:15:ARG:N	22:O:16:MET:CB	1.99	1.24
23:P:396:PRO:CG	24:Q:356:CYS:C	2.10	1.24
33:Z:789:GLN:O	33:Z:793:PHE:CZ	1.90	1.24
16:I:281:GLN:C	17:J:220:GLN:O	1.79	1.24
17:J:190:PRO:CB	17:J:318:PRO:HA	1.67	1.24
25:R:371:PHE:C	25:R:377:LEU:HD12	1.58	1.24
33:Z:270:SER:O	33:Z:276:ASN:ND2	1.71	1.23
33:Z:753:GLY:CA	33:Z:755:GLU:H	1.50	1.23
23:P:381:SER:OG	24:Q:350:ILE:HG23	1.33	1.23
24:Q:314:PHE:CD2	24:Q:339:TYR:CG	2.27	1.23
24:Q:378:SER:O	24:Q:386:PHE:CB	1.87	1.23
26:S:422:MET:HA	26:S:425:ARG:CD	1.66	1.22
19:L:259:SER:CB	19:L:303:ARG:HE	1.51	1.22
33:Z:783:VAL:HG13	33:Z:787:ASP:O	1.10	1.22
14:G:12:ASN:ND2	14:G:129:VAL:O	1.70	1.22
22:O:83:LEU:CD1	22:O:102:LEU:HD21	1.70	1.22
24:Q:383:ASP:CG	24:Q:384:LYS:HD3	1.62	1.22
25:R:400:TYR:CE1	26:S:461:PHE:HZ	1.45	1.22
25:R:146:ASP:HB3	25:R:148:ASP:OD1	1.10	1.22
3:h:20:THR:CB	3:h:36:ASP:OD2	1.85	1.21
15:H:96:PRO:CD	16:I:138:GLU:HG2	1.69	1.21
16:I:239:GLY:C	16:I:242:PRO:HD3	1.64	1.21
24:Q:383:ASP:CG	24:Q:384:LYS:CD	2.11	1.21
25:R:381:ILE:H	26:S:398:THR:CB	1.53	1.21
25:R:381:ILE:H	26:S:398:THR:CG2	1.52	1.21
33:Z:568:LEU:CD2	33:Z:599:ILE:HG13	1.68	1.21
19:L:259:SER:OG	19:L:303:ARG:NE	1.72	1.20
25:R:400:TYR:CZ	26:S:461:PHE:CZ	2.28	1.20
33:Z:358:TYR:HH	33:Z:913:ILE:C	1.50	1.20
18:K:238:ASN:HB2	18:K:241:GLU:CG	1.71	1.20
24:Q:309:ARG:CB	24:Q:349:LYS:CB	2.10	1.20
33:Z:783:VAL:O	33:Z:787:ASP:N	1.71	1.20
18:K:288:SER:OG	19:L:256:ILE:CG2	1.88	1.20
17:J:130:ALA:HB1	17:J:131:ASP:HB2	1.24	1.19
33:Z:240:ASN:O	33:Z:242:PHE:CE1	1.96	1.19
33:Z:585:LEU:HD11	33:Z:603:VAL:CG2	1.73	1.19
3:h:20:THR:O	3:h:188:SER:OG	1.60	1.19
25:R:371:PHE:O	25:R:377:LEU:CG	1.90	1.18
33:Z:579:GLU:O	33:Z:583:ASP:HB2	1.04	1.18
17:J:336:ASN:HA	25:R:204:TRP:HB2	1.22	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:568:LEU:CD2	33:Z:599:ILE:CG1	2.20	1.18
15:H:96:PRO:HG2	16:I:137:GLU:CG	1.72	1.18
33:Z:593:HIS:O	33:Z:596:THR:HB	1.41	1.18
23:P:393:VAL:HB	24:Q:352:GLU:O	1.01	1.18
23:P:393:VAL:O	24:Q:353:PRO:HA	1.39	1.18
17:J:128:ASN:C	17:J:129:LYS:HE2	1.69	1.17
24:Q:356:CYS:O	24:Q:357:VAL:HG13	1.05	1.17
33:Z:761:PHE:CE2	33:Z:783:VAL:HG21	1.76	1.17
16:I:280:ILE:HA	16:I:281:GLN:HB2	1.23	1.17
19:L:254:LYS:CB	20:M:255:TYR:HD1	1.56	1.17
23:P:396:PRO:HG3	24:Q:357:VAL:CA	1.72	1.17
24:Q:302:VAL:HG13	24:Q:335:PHE:CZ	1.71	1.17
30:W:66:THR:CG2	30:W:71:LYS:CE	2.22	1.17
23:P:396:PRO:HG2	24:Q:356:CYS:O	1.41	1.17
17:J:127:GLU:HB3	17:J:129:LYS:NZ	1.60	1.17
17:J:128:ASN:O	17:J:129:LYS:CE	1.91	1.17
24:Q:389:VAL:CB	25:R:347:THR:H	1.58	1.17
30:W:66:THR:HG21	30:W:71:LYS:HG3	1.25	1.17
25:R:372:ILE:N	25:R:377:LEU:CD1	2.01	1.16
33:Z:270:SER:O	33:Z:276:ASN:CG	1.88	1.16
2:9:42:THR:HG22	2:9:74:ARG:NH2	1.60	1.16
18:K:344:ARG:CD	18:K:378:LEU:O	1.93	1.16
2:2:42:THR:HG21	2:2:58:ASP:CG	1.71	1.16
1:1:29:GLY:O	1:1:74:ASN:ND2	1.79	1.16
2:9:42:THR:HG21	2:9:58:ASP:CG	1.71	1.16
15:H:96:PRO:CD	16:I:138:GLU:CG	2.22	1.16
25:R:259:PHE:HD1	25:R:333:MET:CG	1.59	1.16
25:R:382:ASP:OD1	26:S:402:ILE:HD12	1.44	1.16
18:K:240:SER:HA	19:L:303:ARG:HG3	1.26	1.15
24:Q:380:MET:HB2	24:Q:385:ILE:O	1.46	1.15
33:Z:784:SER:HA	33:Z:788:PRO:CB	1.74	1.15
22:O:102:LEU:HD23	22:O:132:GLU:OE2	1.43	1.15
33:Z:579:GLU:O	33:Z:583:ASP:CB	1.94	1.15
33:Z:605:SER:O	33:Z:878:LEU:HD22	1.36	1.15
24:Q:344:GLU:OE2	24:Q:379:GLN:HG2	1.47	1.15
24:Q:383:ASP:OD2	25:R:264:THR:OG1	1.58	1.15
7:7:76:THR:HG23	7:7:108:LYS:HZ3	1.10	1.14
33:Z:784:SER:HA	33:Z:788:PRO:HG3	1.27	1.14
24:Q:372:GLN:O	24:Q:376:LYS:CD	1.96	1.14
19:L:253:ASP:HA	20:M:256:ILE:O	1.46	1.14
25:R:146:ASP:C	25:R:148:ASP:OD1	1.91	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:330:VAL:CB	25:R:331:ARG:N	2.09	1.14
24:Q:314:PHE:CE1	24:Q:335:PHE:CD2	2.34	1.13
24:Q:343:LEU:O	24:Q:347:LEU:HG	1.45	1.13
33:Z:352:LYS:HE3	33:Z:466:GLU:O	1.45	1.13
33:Z:585:LEU:CD1	33:Z:603:VAL:CG2	2.26	1.13
33:Z:789:GLN:O	33:Z:793:PHE:CE2	2.00	1.13
15:H:97:LEU:HD23	16:I:146:ILE:HD13	1.15	1.13
33:Z:761:PHE:CG	33:Z:780:MET:SD	2.42	1.13
25:R:200:LYS:CE	25:R:202:GLY:CA	2.25	1.13
14:g:126:TYR:HB2	14:g:129:VAL:HG22	1.21	1.13
15:H:97:LEU:CD1	15:H:189:PRO:HB2	1.77	1.13
22:O:83:LEU:HD22	22:O:102:LEU:HD22	1.21	1.13
23:P:392:LYS:CE	24:Q:354:PHE:CB	2.20	1.12
25:R:373:PRO:HB3	26:S:394:ILE:HG21	1.25	1.12
33:Z:564:ARG:HG3	33:Z:594:PRO:CB	1.78	1.12
2:2:42:THR:HG22	2:2:74:ARG:NH2	1.60	1.12
33:Z:605:SER:HB2	33:Z:878:LEU:HD21	1.16	1.12
15:H:380:PRO:O	15:H:413:ASN:ND2	1.80	1.12
24:Q:310:SER:HB2	24:Q:349:LYS:HZ1	1.07	1.12
24:Q:359:ILE:HG23	24:Q:373:VAL:HG11	1.25	1.12
25:R:259:PHE:CZ	25:R:332:GLU:HB2	1.85	1.12
25:R:381:ILE:N	26:S:398:THR:CG2	2.12	1.12
33:Z:275:GLN:HB3	33:Z:278:LEU:HB3	1.27	1.12
33:Z:269:TYR:HA	33:Z:272:TYR:CD2	1.84	1.11
33:Z:605:SER:C	33:Z:878:LEU:HD21	1.74	1.11
16:I:239:GLY:C	16:I:242:PRO:CD	2.23	1.11
23:P:396:PRO:CG	24:Q:357:VAL:N	2.13	1.11
24:Q:359:ILE:HG21	24:Q:370:THR:HG23	1.18	1.11
25:R:381:ILE:O	26:S:396:SER:CB	1.99	1.11
33:Z:430:LEU:HG	33:Z:467:VAL:CB	1.80	1.11
33:Z:567:ALA:HB1	33:Z:595:MET:CB	1.67	1.11
15:H:396:MET:HA	16:I:238:MET:CB	1.80	1.11
22:O:99:LEU:HB2	22:O:135:ARG:HH12	1.09	1.11
33:Z:275:GLN:HG2	33:Z:278:LEU:HD22	1.14	1.11
15:H:97:LEU:HD12	15:H:189:PRO:HB2	1.14	1.11
24:Q:309:ARG:CG	24:Q:349:LYS:HG3	1.80	1.10
23:P:396:PRO:HG3	24:Q:357:VAL:HA	1.30	1.10
24:Q:401:GLU:CB	25:R:392:ARG:HH12	1.59	1.10
25:R:382:ASP:OD1	26:S:402:ILE:HG23	1.51	1.10
33:Z:240:ASN:O	33:Z:242:PHE:CZ	2.05	1.10
33:Z:275:GLN:CB	33:Z:278:LEU:HB3	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:592:GLU:HA	33:Z:596:THR:HG21	1.11	1.10
24:Q:405:GLN:CG	25:R:395:ASN:CB	2.27	1.10
21:N:178:SER:HB2	21:N:181:GLU:HB2	1.24	1.10
22:O:83:LEU:CD1	22:O:102:LEU:CD2	2.30	1.10
7:7:76:THR:HG23	7:7:108:LYS:NZ	1.67	1.09
25:R:400:TYR:OH	28:U:274:MET:HB3	1.50	1.09
30:W:66:THR:HG22	30:W:71:LYS:HE3	1.13	1.09
33:Z:575:MET:CB	33:Z:606:CYS:HB2	1.81	1.09
15:H:376:GLU:OE2	15:H:378:SER:HA	1.51	1.09
24:Q:383:ASP:HB2	24:Q:384:LYS:CG	1.82	1.09
33:Z:594:PRO:O	33:Z:596:THR:N	1.85	1.09
33:Z:861:THR:CG2	33:Z:962:ARG:NH1	2.09	1.09
26:S:422:MET:C	26:S:425:ARG:HG2	1.78	1.09
33:Z:568:LEU:HD22	33:Z:602:LEU:CD1	1.82	1.09
33:Z:605:SER:CB	33:Z:878:LEU:HG	1.75	1.09
15:H:376:GLU:CD	15:H:378:SER:HA	1.76	1.08
22:O:83:LEU:HD22	22:O:102:LEU:CD2	1.70	1.08
24:Q:302:VAL:CG2	24:Q:335:PHE:CZ	2.36	1.08
25:R:263:ARG:NH2	25:R:267:LYS:HD3	1.67	1.08
25:R:380:VAL:C	26:S:398:THR:HG22	1.78	1.08
15:H:96:PRO:HG3	16:I:138:GLU:HG2	1.18	1.08
25:R:330:VAL:C	25:R:331:ARG:HA	1.66	1.08
33:Z:275:GLN:HB3	33:Z:278:LEU:CB	1.83	1.08
16:I:281:GLN:CG	17:J:223:ILE:CA	2.31	1.08
22:O:16:MET:HA	22:O:72:LYS:HE3	1.25	1.08
33:Z:605:SER:CA	33:Z:878:LEU:CD1	2.23	1.08
22:O:1:MET:H1	22:O:35:GLU:C	1.60	1.07
24:Q:382:LEU:CD1	24:Q:402:THR:CG2	2.27	1.07
33:Z:747:ALA:HB2	33:Z:761:PHE:CZ	1.87	1.07
23:P:396:PRO:HG3	24:Q:357:VAL:N	1.67	1.07
25:R:382:ASP:HB2	26:S:399:TYR:CB	1.84	1.07
18:K:242:PHE:CE2	18:K:254:VAL:HG22	1.89	1.07
18:K:243:VAL:HG21	19:L:303:ARG:HD3	1.26	1.07
25:R:380:VAL:CG1	26:S:398:THR:O	2.03	1.07
33:Z:275:GLN:CG	33:Z:278:LEU:HD22	1.84	1.07
33:Z:783:VAL:HG12	33:Z:788:PRO:HA	1.36	1.07
13:F:11:VAL:HG21	14:G:128:SER:O	1.32	1.07
15:H:96:PRO:HD3	16:I:138:GLU:CB	1.84	1.07
18:K:182:GLN:HE21	18:K:186:GLU:HG3	1.18	1.07
33:Z:567:ALA:CB	33:Z:595:MET:CA	2.31	1.07
25:R:350:LEU:HD21	25:R:365:ASP:CG	1.78	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:243:GLN:OE1	33:Z:244:ARG:N	1.88	1.07
18:K:243:VAL:HG12	19:L:257:GLY:HA2	1.37	1.06
24:Q:302:VAL:HG13	24:Q:335:PHE:HZ	0.99	1.06
33:Z:269:TYR:O	33:Z:272:TYR:HD2	1.36	1.06
24:Q:339:TYR:CD1	24:Q:342:LEU:CD1	2.37	1.06
22:O:83:LEU:HD11	22:O:102:LEU:CD1	1.86	1.06
24:Q:302:VAL:HG11	24:Q:335:PHE:CZ	1.75	1.06
24:Q:383:ASP:O	24:Q:384:LYS:NZ	1.88	1.06
24:Q:405:GLN:HB2	25:R:395:ASN:HA	1.32	1.06
25:R:382:ASP:HB2	26:S:399:TYR:CG	1.91	1.06
27:T:249:MET:HA	27:T:252:GLU:OE2	1.56	1.06
33:Z:287:ARG:O	33:Z:289:GLY:N	1.89	1.06
24:Q:383:ASP:OD2	24:Q:384:LYS:HD2	1.54	1.05
25:R:259:PHE:CD1	25:R:333:MET:CE	2.39	1.05
15:H:95:HIS:CE1	16:I:140:ILE:HG13	1.91	1.05
24:Q:380:MET:HE1	24:Q:382:LEU:HD23	1.38	1.05
25:R:259:PHE:HZ	25:R:332:GLU:HB2	1.14	1.05
30:W:66:THR:HG22	30:W:71:LYS:CE	1.81	1.05
13:F:11:VAL:HG23	14:G:128:SER:O	1.56	1.05
22:O:83:LEU:HD11	22:O:102:LEU:HD11	1.39	1.05
22:O:357:ILE:HG22	22:O:358:ILE:H	1.17	1.05
25:R:384:VAL:HG23	26:S:406:ASP:HB3	1.06	1.05
18:K:243:VAL:HG21	19:L:303:ARG:HD2	1.35	1.05
24:Q:368:LEU:HG	24:Q:369:ASP:H	1.19	1.05
33:Z:747:ALA:CB	33:Z:761:PHE:CZ	2.40	1.05
25:R:333:MET:HA	25:R:336:LYS:HB2	1.37	1.04
33:Z:923:ILE:N	33:Z:959:HIS:ND1	2.04	1.04
24:Q:351:ILE:HB	24:Q:352:GLU:HB3	1.32	1.04
33:Z:568:LEU:HD23	33:Z:599:ILE:HG12	1.33	1.04
14:g:12:ASN:ND2	14:g:129:VAL:O	1.90	1.04
24:Q:383:ASP:CA	24:Q:384:LYS:HD3	1.86	1.04
33:Z:605:SER:HB2	33:Z:878:LEU:CD2	1.80	1.04
22:O:83:LEU:CG	22:O:102:LEU:HD22	1.87	1.04
24:Q:359:ILE:CG2	24:Q:370:THR:HG23	1.86	1.04
33:Z:593:HIS:H	33:Z:596:THR:CB	1.69	1.04
24:Q:309:ARG:CG	24:Q:349:LYS:CG	2.35	1.04
24:Q:390:LEU:HD23	24:Q:397:LEU:HD11	1.37	1.04
25:R:334:ARG:NH2	25:R:367:ASP:HB2	1.72	1.04
22:O:4:ASN:O	22:O:8:ASP:CB	2.05	1.03
24:Q:401:GLU:CD	25:R:392:ARG:HH22	1.66	1.03
26:S:405:ARG:HA	26:S:408:CYS:HB2	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:66:THR:HG23	30:W:71:LYS:HE3	1.08	1.03
33:Z:288:LEU:O	33:Z:290:GLU:N	1.91	1.03
33:Z:756:MET:O	33:Z:760:HIS:N	1.90	1.03
13:F:11:VAL:O	14:G:130:ARG:HG3	1.58	1.03
17:J:128:ASN:C	17:J:129:LYS:CE	2.30	1.03
18:K:339:GLU:O	18:K:341:PRO:CD	2.05	1.03
25:R:146:ASP:HB3	25:R:148:ASP:OD2	1.56	1.03
25:R:259:PHE:HD1	25:R:333:MET:HG2	0.96	1.03
33:Z:291:GLU:CB	33:Z:294:ILE:HD11	1.88	1.03
23:P:392:LYS:NZ	24:Q:354:PHE:HB3	1.74	1.03
23:P:393:VAL:CG2	24:Q:352:GLU:N	2.22	1.03
25:R:381:ILE:H	26:S:398:THR:HB	1.21	1.03
25:R:384:VAL:HB	26:S:402:ILE:HG22	1.38	1.03
33:Z:605:SER:HB3	33:Z:878:LEU:CD2	1.78	1.03
16:I:281:GLN:CB	17:J:223:ILE:HA	1.87	1.03
25:R:372:ILE:HA	25:R:377:LEU:HD12	1.36	1.03
16:I:281:GLN:HG2	17:J:223:ILE:HA	1.37	1.03
18:K:344:ARG:HD2	18:K:378:LEU:O	1.58	1.03
26:S:290:ASN:HB2	26:S:320:ILE:HG21	1.37	1.03
27:T:252:GLU:HG2	27:T:256:LYS:HG3	1.38	1.03
18:K:238:ASN:HB2	18:K:241:GLU:HG3	1.37	1.02
24:Q:314:PHE:HB3	24:Q:339:TYR:CE1	1.94	1.02
24:Q:383:ASP:C	24:Q:384:LYS:HZ2	1.66	1.02
30:W:12:ASN:H	30:W:55:ALA:HB2	1.24	1.02
33:Z:602:LEU:CD2	33:Z:882:LEU:CD2	2.29	1.02
15:H:96:PRO:CB	15:H:192:ASP:O	2.06	1.02
18:K:238:ASN:HB2	18:K:241:GLU:HG2	1.38	1.02
24:Q:314:PHE:HE1	24:Q:335:PHE:CD2	1.72	1.02
15:H:58:ASP:HB2	16:I:126:ILE:HD13	1.42	1.02
24:Q:342:LEU:O	24:Q:346:ASN:N	1.92	1.02
24:Q:372:GLN:HE21	24:Q:376:LYS:NZ	1.58	1.02
24:Q:389:VAL:CB	25:R:347:THR:C	2.32	1.02
18:K:217:THR:OG1	18:K:340:PHE:CZ	2.10	1.02
25:R:400:TYR:O	25:R:403:LEU:N	1.93	1.02
15:H:96:PRO:HG2	16:I:137:GLU:HG2	1.11	1.01
16:I:206:GLU:HB2	16:I:261:LYS:HB2	1.38	1.01
22:O:16:MET:HA	22:O:72:LYS:CE	1.91	1.01
25:R:200:LYS:HD2	25:R:202:GLY:N	1.75	1.01
33:Z:215:ASN:OD1	33:Z:241:THR:OG1	1.77	1.01
22:O:185:PHE:HA	22:O:188:PHE:HB3	1.43	1.01
33:Z:747:ALA:HB2	33:Z:761:PHE:HZ	1.17	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:784:SER:CA	33:Z:788:PRO:HB3	1.90	1.01
22:O:140:LYS:HB2	22:O:181:PHE:CE2	1.96	1.01
23:P:396:PRO:HB2	24:Q:356:CYS:HB3	1.37	1.01
25:R:283:THR:O	25:R:285:ALA:N	1.93	1.01
26:S:422:MET:HA	26:S:425:ARG:HD3	1.40	1.01
33:Z:275:GLN:HG2	33:Z:278:LEU:HD23	1.42	1.01
33:Z:605:SER:O	33:Z:878:LEU:HD21	1.37	1.01
22:O:15:ARG:H	22:O:16:MET:CA	1.73	1.01
24:Q:372:GLN:O	24:Q:376:LYS:HD2	1.60	1.01
25:R:147:LYS:NZ	25:R:186:TYR:OH	1.93	1.01
25:R:330:VAL:HB	25:R:331:ARG:N	1.72	1.01
33:Z:585:LEU:HD12	33:Z:603:VAL:HG21	1.38	1.01
22:O:356:ARG:CZ	22:O:356:ARG:HA	1.91	1.00
24:Q:380:MET:CE	24:Q:382:LEU:HD23	1.90	1.00
33:Z:585:LEU:CG	33:Z:603:VAL:HG11	1.90	1.00
22:O:16:MET:CA	22:O:72:LYS:HE3	1.90	1.00
25:R:263:ARG:NH2	25:R:297:TYR:HE1	1.59	1.00
16:I:281:GLN:HG3	17:J:223:ILE:HA	1.37	1.00
16:I:281:GLN:HG2	17:J:223:ILE:CA	1.89	1.00
22:O:1:MET:N	22:O:35:GLU:O	1.94	1.00
24:Q:401:GLU:OE1	25:R:392:ARG:NH2	1.95	1.00
25:R:400:TYR:CE1	26:S:461:PHE:CE1	2.49	1.00
33:Z:784:SER:HA	33:Z:788:PRO:HB3	1.38	1.00
33:Z:357:ILE:HD13	33:Z:959:HIS:CD2	1.97	1.00
33:Z:568:LEU:HD22	33:Z:602:LEU:HD12	1.38	1.00
25:R:350:LEU:N	25:R:386:GLY:O	1.94	0.99
18:K:241:GLU:OE2	19:L:264:ARG:NH2	1.95	0.99
22:O:12:SER:HA	22:O:14:LEU:N	1.77	0.99
24:Q:372:GLN:NE2	24:Q:376:LYS:NZ	2.08	0.99
25:R:146:ASP:CB	25:R:148:ASP:CG	2.27	0.99
25:R:294:ILE:HA	25:R:297:TYR:HB3	1.41	0.99
26:S:408:CYS:O	26:S:412:ASN:N	1.94	0.99
19:L:175:GLN:HB3	19:L:237:ALA:HA	1.44	0.99
23:P:395:ARG:NH1	24:Q:365:ILE:HG13	1.76	0.99
24:Q:314:PHE:CE2	24:Q:339:TYR:CG	2.51	0.99
33:Z:585:LEU:HG	33:Z:603:VAL:HG11	1.00	0.99
22:O:83:LEU:HD13	22:O:102:LEU:HD21	1.37	0.99
33:Z:291:GLU:CD	33:Z:294:ILE:HD12	1.88	0.99
25:R:381:ILE:N	26:S:398:THR:HG22	1.74	0.99
25:R:391:ASN:ND2	26:S:449:LEU:HD22	1.77	0.99
25:R:403:LEU:HD21	26:S:464:ARG:HD2	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:563:VAL:CG1	33:Z:594:PRO:CB	2.41	0.99
15:H:97:LEU:HD23	16:I:146:ILE:CD1	1.92	0.98
18:K:241:GLU:CD	19:L:264:ARG:HH22	1.69	0.98
33:Z:269:TYR:O	33:Z:272:TYR:CD2	2.15	0.98
27:T:254:ASP:O	27:T:258:ASN:N	1.95	0.98
23:P:396:PRO:CG	24:Q:357:VAL:CA	2.41	0.98
26:S:280:ASN:HA	26:S:283:GLN:HB2	1.42	0.98
25:R:400:TYR:OH	28:U:274:MET:CB	2.11	0.98
24:Q:358:GLU:HG2	24:Q:360:SER:H	1.28	0.98
23:P:393:VAL:HG21	24:Q:352:GLU:N	1.77	0.98
27:T:251:HIS:CE1	27:T:253:GLU:HB3	1.99	0.98
33:Z:291:GLU:O	33:Z:294:ILE:HG13	1.63	0.98
18:K:247:LEU:O	18:K:294:ARG:NH2	1.96	0.98
23:P:245:TYR:O	23:P:257:TRP:NE1	1.97	0.98
15:H:96:PRO:HG3	16:I:137:GLU:HG2	1.44	0.98
22:O:99:LEU:HB2	22:O:135:ARG:NH1	1.78	0.98
33:Z:269:TYR:CA	33:Z:272:TYR:CE2	2.47	0.98
25:R:384:VAL:HB	26:S:402:ILE:CG2	1.93	0.97
33:Z:761:PHE:HE2	33:Z:783:VAL:HG21	1.16	0.97
18:K:283:ASP:HB3	18:K:285:GLN:HE21	1.27	0.97
24:Q:339:TYR:HD1	24:Q:342:LEU:CD1	1.72	0.97
24:Q:129:LYS:NZ	9:b:184:GLU:OE1	1.95	0.97
19:L:254:LYS:N	19:L:255:TYR:HB2	1.79	0.97
33:Z:269:TYR:CE1	33:Z:277:GLU:HG2	1.99	0.97
33:Z:358:TYR:OH	33:Z:913:ILE:C	2.05	0.97
33:Z:605:SER:CA	33:Z:878:LEU:HD21	1.93	0.97
26:S:422:MET:O	26:S:425:ARG:CG	2.12	0.97
24:Q:309:ARG:HG3	24:Q:349:LYS:HG2	1.46	0.97
24:Q:404:ASN:HD21	25:R:393:PRO:HD2	1.29	0.97
22:O:15:ARG:CA	22:O:16:MET:CB	2.43	0.97
33:Z:783:VAL:HG12	33:Z:788:PRO:CA	1.94	0.97
16:I:281:GLN:CG	17:J:224:GLY:H	1.78	0.96
19:L:303:ARG:NH2	19:L:304:THR:OG1	1.98	0.96
25:R:200:LYS:HE3	25:R:202:GLY:CA	1.94	0.96
33:Z:358:TYR:OH	33:Z:913:ILE:O	1.82	0.96
33:Z:568:LEU:HD21	33:Z:599:ILE:HG13	1.45	0.96
17:J:188:TYR:H	17:J:316:PHE:H	1.10	0.96
24:Q:309:ARG:HB3	24:Q:349:LYS:HB2	1.46	0.96
15:H:292:ARG:HH22	20:M:249:PRO:HB2	1.29	0.96
25:R:78:ASP:HA	25:R:93:LYS:HA	1.47	0.96
24:Q:302:VAL:CG1	24:Q:335:PHE:CE1	2.37	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:371:PHE:C	25:R:377:LEU:HD11	1.85	0.96
14:G:126:TYR:HB2	14:G:129:VAL:HG22	1.47	0.96
23:P:396:PRO:CB	24:Q:356:CYS:HB3	1.93	0.96
26:S:246:GLU:HB2	27:T:128:TYR:HB2	1.44	0.96
20:M:166:ARG:NH1	20:M:170:MET:O	1.99	0.96
25:R:200:LYS:HE3	25:R:202:GLY:HA2	0.99	0.96
25:R:371:PHE:C	25:R:377:LEU:CG	2.34	0.96
33:Z:243:GLN:CD	33:Z:244:ARG:N	2.20	0.96
23:P:119:ILE:HG13	23:P:143:LEU:HD22	1.46	0.96
24:Q:309:ARG:HG3	24:Q:349:LYS:CG	1.95	0.96
25:R:335:ARG:HH21	25:R:374:ASN:ND2	1.64	0.96
16:I:281:GLN:HG2	17:J:223:ILE:CG2	1.95	0.96
24:Q:310:SER:HB2	24:Q:349:LYS:NZ	1.79	0.96
27:T:252:GLU:HG2	27:T:256:LYS:CG	1.96	0.96
18:K:339:GLU:C	18:K:341:PRO:HD3	1.91	0.95
33:Z:352:LYS:CE	33:Z:466:GLU:O	2.12	0.95
22:O:357:ILE:O	22:O:358:ILE:HG22	1.64	0.95
23:P:403:GLU:HG3	23:P:404:LYS:H	1.31	0.95
33:Z:291:GLU:OE1	33:Z:294:ILE:CD1	2.13	0.95
15:H:96:PRO:HD3	16:I:138:GLU:HG2	1.34	0.95
33:Z:216:GLY:HA2	33:Z:217:GLU:HG2	1.48	0.95
24:Q:380:MET:CB	24:Q:385:ILE:O	2.14	0.95
25:R:60:ALA:O	25:R:64:LYS:N	1.99	0.95
25:R:369:GLY:O	25:R:372:ILE:HD12	1.66	0.95
26:S:383:LEU:HD23	26:S:386:ASN:HD22	1.31	0.95
19:L:259:SER:CB	19:L:303:ARG:NE	2.28	0.95
24:Q:372:GLN:HE21	24:Q:376:LYS:HZ3	0.99	0.95
33:Z:753:GLY:HA2	33:Z:755:GLU:H	0.79	0.95
25:R:146:ASP:CA	25:R:148:ASP:OD1	2.15	0.95
27:T:182:LYS:HB3	27:T:186:ARG:HH12	1.32	0.95
16:I:199:LYS:HB3	16:I:273:ARG:HB3	1.48	0.95
22:O:102:LEU:CD2	22:O:128:LEU:HD11	1.96	0.95
22:O:15:ARG:CB	22:O:16:MET:CB	2.44	0.95
24:Q:104:PHE:HB3	24:Q:114:GLN:HE22	1.31	0.95
33:Z:567:ALA:CB	33:Z:595:MET:HA	1.96	0.95
17:J:190:PRO:CB	17:J:318:PRO:CA	2.45	0.94
19:L:289:ARG:H	20:M:293:SER:HB2	1.31	0.94
23:P:392:LYS:NZ	24:Q:354:PHE:CB	2.29	0.94
24:Q:390:LEU:HD23	24:Q:397:LEU:CD1	1.96	0.94
14:g:126:TYR:HB2	14:g:129:VAL:CG2	1.97	0.94
2:9:42:THR:CG2	2:9:58:ASP:OD1	2.16	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:355:GLU:OE2	24:Q:399:VAL:CG2	2.14	0.94
25:R:373:PRO:HB3	26:S:394:ILE:CG2	1.95	0.94
25:R:400:TYR:OH	28:U:274:MET:CA	2.14	0.94
18:K:341:PRO:O	18:K:342:SER:OG	1.85	0.94
21:N:25:LEU:HB3	21:N:60:MET:HG2	1.49	0.94
25:R:382:ASP:HB2	26:S:399:TYR:HB2	1.49	0.94
17:J:143:PRO:HD2	17:J:210:PHE:HB3	1.48	0.94
22:O:211:GLN:HE21	22:O:241:THR:HA	1.31	0.94
26:S:217:PHE:O	26:S:221:ALA:N	1.99	0.94
3:3:20:THR:CB	3:3:52:LYS:NZ	2.30	0.94
23:P:396:PRO:CG	24:Q:357:VAL:HA	1.97	0.94
23:P:425:HIS:HD2	28:U:232:VAL:HB	1.32	0.94
25:R:384:VAL:HG22	26:S:406:ASP:HB2	1.48	0.94
19:L:254:LYS:HG3	19:L:256:ILE:HD13	1.44	0.94
22:O:140:LYS:CB	22:O:181:PHE:CE2	2.50	0.94
23:P:395:ARG:HD2	24:Q:361:HIS:HB3	1.47	0.94
25:R:334:ARG:HH22	25:R:367:ASP:HB2	1.31	0.94
25:R:335:ARG:NH2	25:R:374:ASN:ND2	2.13	0.94
24:Q:380:MET:HE1	24:Q:382:LEU:CD2	1.98	0.94
33:Z:616:LEU:HB3	33:Z:746:ILE:HG23	1.49	0.94
33:Z:747:ALA:HB1	33:Z:761:PHE:HZ	1.30	0.94
33:Z:761:PHE:HE2	33:Z:783:VAL:CG2	1.80	0.94
13:f:207:THR:H	13:f:210:ASN:HB2	1.32	0.94
25:R:395:ASN:ND2	28:U:274:MET:HE1	1.82	0.94
28:U:167:GLU:HA	29:V:35:LEU:HD22	1.47	0.94
1:1:117:TYR:OH	7:l:130:TRP:NE1	2.01	0.93
28:U:140:ILE:O	28:U:141:GLU:CG	2.15	0.93
29:V:119:SER:HB2	29:V:122:ASP:H	1.33	0.93
21:N:321:LEU:HG	21:N:323:GLY:H	1.32	0.93
33:Z:243:GLN:O	33:Z:245:VAL:N	2.01	0.93
2:2:42:THR:CG2	2:2:58:ASP:OD1	2.16	0.93
21:N:659:ALA:HA	21:N:662:MET:HE2	1.48	0.93
23:P:395:ARG:CZ	24:Q:365:ILE:HG13	1.98	0.93
13:F:207:THR:H	13:F:210:ASN:HB2	1.32	0.93
22:O:14:LEU:HA	22:O:16:MET:O	1.68	0.93
25:R:400:TYR:CZ	26:S:461:PHE:HZ	1.74	0.93
33:Z:291:GLU:HB2	33:Z:294:ILE:HD11	0.94	0.93
33:Z:563:VAL:HG12	33:Z:594:PRO:CB	1.98	0.93
33:Z:585:LEU:HD11	33:Z:603:VAL:HG22	1.43	0.93
13:f:11:VAL:HG21	14:g:128:SER:O	1.67	0.93
33:Z:784:SER:CA	33:Z:788:PRO:HG3	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:206:VAL:HG13	15:H:209:SER:HB3	1.48	0.93
23:P:91:LEU:HA	23:P:130:ILE:HD11	1.48	0.93
23:P:228:SER:HB3	23:P:237:VAL:HG22	1.50	0.93
33:Z:783:VAL:HG13	33:Z:787:ASP:C	1.94	0.93
18:K:339:GLU:O	18:K:341:PRO:HD2	1.66	0.93
15:H:103:THR:HA	15:H:144:LYS:HE3	1.51	0.93
18:K:240:SER:CA	19:L:303:ARG:HG3	1.99	0.93
22:O:102:LEU:HD23	22:O:128:LEU:HD11	1.49	0.93
25:R:400:TYR:HE1	26:S:461:PHE:CZ	1.69	0.93
33:Z:275:GLN:CG	33:Z:278:LEU:CD2	2.42	0.93
33:Z:745:LEU:HD21	33:Z:882:LEU:HD13	1.48	0.93
2:9:164:ASN:HD21	2:9:168:VAL:HB	1.34	0.93
17:J:252:SER:HB2	17:J:295:ASN:H	1.34	0.93
21:N:229:VAL:O	21:N:233:ASN:N	2.01	0.93
23:P:381:SER:OG	24:Q:350:ILE:CG2	2.17	0.93
24:Q:309:ARG:HB2	24:Q:349:LYS:HB2	1.18	0.93
24:Q:383:ASP:C	24:Q:384:LYS:HD3	1.94	0.93
25:R:200:LYS:HE2	25:R:202:GLY:HA2	1.48	0.93
25:R:399:GLN:HE21	28:U:275:VAL:HG22	1.32	0.93
31:X:14:VAL:HG22	31:X:33:ILE:HD12	1.51	0.93
15:H:288:ALA:HB1	15:H:292:ARG:HH12	1.34	0.92
19:L:258:GLU:HB3	19:L:261:ARG:HH21	1.33	0.92
26:S:171:TYR:HB3	26:S:175:SER:HB3	1.48	0.92
10:c:28:SER:HA	10:c:31:HIS:HD2	1.33	0.92
16:I:283:TYR:HB3	17:J:223:ILE:HG13	1.51	0.92
27:T:34:LEU:HA	27:T:37:ASN:HB2	1.49	0.92
17:J:88:VAL:HB	17:J:91:GLU:HB2	1.47	0.92
15:H:145:TYR:HB3	15:H:168:ILE:HG22	1.51	0.92
18:K:74:HIS:ND1	21:N:576:VAL:HA	1.84	0.92
24:Q:335:PHE:O	24:Q:339:TYR:N	2.03	0.92
24:Q:389:VAL:CB	25:R:347:THR:N	2.32	0.92
24:Q:309:ARG:O	24:Q:346:ASN:HA	1.68	0.92
25:R:338:TYR:O	25:R:343:GLU:O	1.87	0.92
2:2:164:ASN:HD21	2:2:168:VAL:HB	1.34	0.92
5:5:203:ARG:NH1	7:I:267:ASP:OD1	2.02	0.92
18:K:93:PRO:HG2	18:K:141:ARG:HH12	1.35	0.92
24:Q:402:THR:HB	24:Q:403:PRO:HD3	1.50	0.92
25:R:259:PHE:HZ	25:R:332:GLU:CB	1.82	0.92
33:Z:430:LEU:CG	33:Z:467:VAL:CB	2.47	0.92
15:H:72:SER:HB3	15:H:172:MET:HG2	1.50	0.92
21:N:434:SER:HB3	21:N:439:VAL:HG11	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:592:GLU:CA	33:Z:596:THR:HG21	2.00	0.92
16:I:280:ILE:N	16:I:281:GLN:OE1	2.02	0.92
17:J:127:GLU:HB3	17:J:129:LYS:HZ1	1.24	0.92
22:O:83:LEU:HD11	22:O:102:LEU:CD2	1.98	0.92
22:O:309:SER:HA	22:O:348:VAL:HG23	1.52	0.92
33:Z:366:LYS:HG2	33:Z:367:SER:H	1.35	0.92
3:h:20:THR:CB	3:h:52:LYS:HZ2	1.83	0.92
5:j:103:TYR:HA	6:k:93:ARG:HH22	1.33	0.92
10:C:28:SER:HA	10:C:31:HIS:HD2	1.33	0.91
18:K:242:PHE:CE2	18:K:254:VAL:CG2	2.52	0.91
24:Q:341:THR:O	24:Q:345:SER:N	2.02	0.91
33:Z:918:ASP:OD1	33:Z:973:TYR:OH	1.87	0.91
33:Z:592:GLU:HA	33:Z:596:THR:CG2	1.98	0.91
22:O:15:ARG:O	30:W:18:ASN:ND2	2.01	0.91
28:U:259:ASN:HB2	28:U:261:LEU:HG	1.53	0.91
33:Z:783:VAL:CG1	33:Z:787:ASP:C	2.42	0.91
20:M:271:LYS:O	20:M:320:ARG:NH2	2.03	0.91
25:R:330:VAL:C	25:R:331:ARG:C	2.39	0.91
29:V:232:GLU:HA	29:V:235:GLU:HB3	1.53	0.91
33:Z:819:GLY:HA2	33:Z:827:LEU:HD21	1.51	0.91
15:H:97:LEU:CD2	16:I:146:ILE:HD13	2.00	0.91
24:Q:339:TYR:CE1	24:Q:342:LEU:HD12	2.05	0.91
25:R:147:LYS:HZ1	25:R:186:TYR:HE2	1.18	0.91
2:9:42:THR:HG23	2:9:74:ARG:NH2	1.84	0.91
15:H:173:ARG:NE	16:I:154:ASP:O	2.04	0.91
22:O:140:LYS:HB2	22:O:181:PHE:CZ	2.05	0.91
22:O:140:LYS:HA	22:O:181:PHE:HE2	1.34	0.91
25:R:147:LYS:HG3	25:R:151:GLU:OE2	1.69	0.91
25:R:200:LYS:CD	25:R:203:ASP:H	1.83	0.91
28:U:189:ARG:HD2	28:U:192:ASN:HD22	1.32	0.91
18:K:157:SER:HA	18:K:159:SER:H	1.36	0.91
24:Q:61:LEU:O	24:Q:65:TYR:N	2.03	0.91
25:R:371:PHE:HB3	25:R:377:LEU:HD21	1.50	0.91
26:S:20:HIS:HE1	26:S:131:THR:HB	1.34	0.91
16:I:281:GLN:HG2	17:J:223:ILE:HG23	1.52	0.91
24:Q:129:LYS:HZ1	9:b:187:ASP:H	1.16	0.91
33:Z:593:HIS:O	33:Z:596:THR:CB	2.19	0.91
15:H:145:TYR:HB2	15:H:169:GLU:HB2	1.50	0.91
25:R:290:SER:O	25:R:294:ILE:N	2.02	0.91
25:R:371:PHE:C	25:R:377:LEU:HG	1.94	0.91
16:I:361:LEU:HB3	16:I:365:LEU:HD23	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:130:ARG:NH1	24:Q:132:PHE:O	2.03	0.91
32:Y:83:ARG:O	32:Y:87:GLU:N	2.04	0.91
33:Z:584:VAL:CG1	33:Z:603:VAL:HG12	2.00	0.91
3:h:162:ARG:HH21	3:h:165:MET:HE3	1.34	0.91
12:E:72:ARG:HH21	12:E:226:ASP:HA	1.34	0.90
15:H:396:MET:CA	16:I:238:MET:CB	2.49	0.90
24:Q:92:LYS:NZ	9:b:248:GLU:OE1	2.04	0.90
33:Z:531:ALA:HB2	33:Z:569:ALA:HA	1.53	0.90
3:3:162:ARG:HH21	3:3:165:MET:HE3	1.34	0.90
23:P:133:GLU:HA	23:P:136:ARG:HG3	1.52	0.90
30:W:25:ARG:HH12	30:W:144:PHE:HB3	1.36	0.90
33:Z:216:GLY:HA2	33:Z:217:GLU:CG	2.00	0.90
33:Z:593:HIS:N	33:Z:596:THR:OG1	2.04	0.90
15:H:96:PRO:HD3	16:I:138:GLU:HB2	1.50	0.90
16:I:199:LYS:HE3	17:J:278:GLN:HA	1.50	0.90
22:O:17:GLU:O	22:O:19:ASP:N	2.03	0.90
24:Q:314:PHE:HD2	24:Q:339:TYR:CD1	1.79	0.90
33:Z:916:LEU:HB2	33:Z:982:ILE:HG23	1.53	0.90
23:P:395:ARG:NH1	24:Q:361:HIS:O	2.05	0.90
33:Z:365:SER:HB2	33:Z:962:ARG:NH2	1.87	0.90
15:H:317:ALA:HB2	15:H:362:ASP:HA	1.51	0.90
32:Y:78:LYS:O	32:Y:82:ASP:N	2.04	0.90
15:H:190:ARG:HB3	15:H:191:ILE:HA	1.51	0.90
15:H:282:LYS:HE3	17:J:223:ILE:H	1.36	0.90
21:N:665:ILE:HG12	21:N:706:MET:HA	1.53	0.90
27:T:169:GLN:HG3	27:T:174:PHE:HB2	1.53	0.90
30:W:66:THR:CG2	30:W:71:LYS:HG3	2.00	0.90
12:e:72:ARG:HH21	12:e:226:ASP:HA	1.34	0.90
24:Q:383:ASP:HB2	24:Q:384:LYS:CB	2.01	0.90
26:S:422:MET:CA	26:S:425:ARG:HD3	2.02	0.90
20:M:274:ALA:HB1	20:M:320:ARG:HB3	1.51	0.90
21:N:177:ASP:O	21:N:182:ASN:ND2	2.05	0.90
3:3:155:GLY:HA2	3:h:180:GLN:HE21	1.36	0.90
24:Q:302:VAL:CG2	24:Q:335:PHE:CE2	2.55	0.90
5:5:103:TYR:HA	6:6:93:ARG:HH22	1.36	0.90
16:I:282:LYS:HB2	17:J:221:LYS:HA	1.51	0.90
23:P:392:LYS:HZ2	24:Q:354:PHE:HB3	1.30	0.90
24:Q:314:PHE:CD2	24:Q:339:TYR:CE1	2.60	0.90
25:R:381:ILE:HG22	26:S:398:THR:HG21	1.54	0.90
15:H:100:ALA:HA	15:H:173:ARG:HD3	1.54	0.89
18:K:135:MET:SD	18:K:259:ARG:NH2	2.45	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:330:VAL:N	25:R:331:ARG:N	2.20	0.89
3:h:28:LYS:HA	3:h:164:ASN:HD22	1.37	0.89
19:L:421:LYS:HE2	20:M:345:ARG:HH12	1.37	0.89
24:Q:24:GLU:HA	24:Q:27:TYR:HB2	1.52	0.89
24:Q:351:ILE:HB	24:Q:352:GLU:CB	2.01	0.89
28:U:189:ARG:HH21	29:V:296:LEU:HD23	1.38	0.89
9:b:12:PHE:H	10:c:21:GLN:HE22	1.12	0.89
18:K:266:PRO:HA	18:K:311:ASN:HB3	1.53	0.89
29:V:48:GLU:HB3	29:V:109:HIS:HB3	1.54	0.89
33:Z:348:LEU:HD13	33:Z:916:LEU:HD13	1.53	0.89
2:2:42:THR:HG23	2:2:74:ARG:NH2	1.84	0.89
1:8:35:ALA:O	1:8:154:GLN:NE2	2.06	0.89
23:P:323:ASN:O	23:P:337:HIS:ND1	2.04	0.89
29:V:205:LYS:HG2	29:V:206:THR:HG22	1.54	0.89
30:W:158:ILE:HG13	30:W:171:LEU:HB2	1.55	0.89
33:Z:346:LEU:O	33:Z:352:LYS:NZ	2.06	0.89
33:Z:834:LEU:HD23	33:Z:837:TYR:HD2	1.37	0.89
23:P:130:ILE:HG23	23:P:132:VAL:H	1.37	0.89
25:R:380:VAL:HA	26:S:398:THR:HG22	0.92	0.89
32:Y:75:ASN:O	32:Y:79:ALA:N	2.05	0.89
1:1:21:PHE:HZ	2:2:137:ARG:HG3	1.36	0.89
18:K:339:GLU:C	18:K:341:PRO:CD	2.46	0.89
15:H:96:PRO:HG2	16:I:137:GLU:CD	1.97	0.89
17:J:130:ALA:CB	17:J:131:ASP:HB2	2.01	0.89
20:M:357:ARG:NH2	20:M:383:THR:O	2.06	0.89
24:Q:383:ASP:CB	24:Q:384:LYS:HB3	2.03	0.89
33:Z:272:TYR:HB3	33:Z:276:ASN:HA	1.54	0.89
16:I:278:GLU:C	16:I:279:LEU:HD23	1.98	0.89
21:N:311:ILE:O	21:N:315:ASN:N	2.04	0.89
23:P:334:ASN:O	23:P:338:TRP:N	2.06	0.89
25:R:200:LYS:HD2	25:R:203:ASP:H	1.38	0.89
33:Z:599:ILE:HG12	33:Z:602:LEU:HD12	1.55	0.89
24:Q:309:ARG:O	24:Q:346:ASN:OD1	1.91	0.89
24:Q:314:PHE:HD2	24:Q:339:TYR:CE1	1.91	0.89
24:Q:339:TYR:O	24:Q:342:LEU:HB2	1.71	0.89
26:S:297:ILE:H	26:S:299:LYS:HZ2	1.15	0.89
29:V:48:GLU:HB2	29:V:78:VAL:HG11	1.54	0.89
33:Z:819:GLY:HA3	33:Z:831:LEU:HD21	1.54	0.89
33:Z:430:LEU:CD1	33:Z:467:VAL:CB	2.51	0.89
13:f:107:ARG:HA	13:f:110:HIS:HD2	1.38	0.89
18:K:155:ASP:HB3	18:K:160:VAL:HG12	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:254:LYS:HB3	20:M:255:TYR:HD1	0.73	0.88
22:O:108:GLU:O	22:O:112:LYS:N	2.06	0.88
24:Q:314:PHE:CE1	24:Q:335:PHE:HE2	1.44	0.88
24:Q:314:PHE:CG	24:Q:339:TYR:CD1	2.62	0.88
24:Q:342:LEU:HA	24:Q:345:SER:HB2	1.55	0.88
2:9:42:THR:HG22	2:9:58:ASP:OD1	1.73	0.88
19:L:254:LYS:HA	19:L:255:TYR:O	1.72	0.88
21:N:274:VAL:HG22	21:N:290:LEU:HD13	1.55	0.88
24:Q:223:GLY:HA2	24:Q:226:HIS:HB2	1.55	0.88
15:H:156:VAL:HG13	15:H:181:TYR:HB3	1.54	0.88
20:M:115:LYS:HA	20:M:131:MET:HE2	1.55	0.88
24:Q:109:ASP:OD2	24:Q:114:GLN:NE2	2.07	0.88
33:Z:254:PRO:HA	33:Z:261:ASP:H	1.38	0.88
33:Z:584:VAL:HG11	33:Z:603:VAL:HG12	1.55	0.88
33:Z:762:GLY:HA2	33:Z:792:VAL:HG21	1.53	0.88
10:C:152:ASN:HD21	10:C:156:ASN:HB3	1.37	0.88
17:J:274:GLU:O	17:J:278:GLN:N	2.04	0.88
23:P:47:ARG:HG3	23:P:49:ALA:H	1.37	0.88
33:Z:344:LYS:HE2	33:Z:919:GLU:HG3	1.56	0.88
1:1:35:ALA:O	1:1:154:GLN:NE2	2.05	0.88
9:B:12:PHE:H	10:C:21:GLN:HE22	1.20	0.88
16:I:276:GLY:HA2	16:I:279:LEU:HG	1.56	0.88
21:N:186:ILE:O	21:N:190:LEU:N	2.06	0.88
33:Z:594:PRO:C	33:Z:596:THR:H	1.81	0.88
3:h:20:THR:CA	3:h:36:ASP:OD2	2.21	0.88
1:1:29:GLY:HA3	1:1:61:LYS:NZ	1.89	0.88
23:P:325:ASP:H	23:P:337:HIS:HE1	1.16	0.88
25:R:200:LYS:O	25:R:203:ASP:N	2.06	0.88
28:U:195:LYS:HE2	28:U:198:LYS:HD3	1.56	0.88
14:g:68:GLN:HE22	14:g:86:ARG:HG2	1.39	0.88
33:Z:308:LYS:HG2	33:Z:345:GLU:HG2	1.54	0.88
15:H:156:VAL:H	20:M:76:PRO:HG3	1.37	0.88
24:Q:388:GLY:H	24:Q:397:LEU:HD23	1.38	0.88
25:R:77:SER:HA	25:R:83:GLU:HA	1.53	0.88
33:Z:307:HIS:O	33:Z:311:ALA:N	2.05	0.88
19:L:264:ARG:O	19:L:268:ALA:N	2.06	0.88
23:P:414:GLU:O	23:P:418:ASN:N	2.07	0.88
10:c:152:ASN:HD21	10:c:156:ASN:HB3	1.37	0.88
24:Q:310:SER:HA	24:Q:346:ASN:OD1	1.74	0.88
30:W:66:THR:HG23	30:W:71:LYS:CE	1.93	0.88
33:Z:158:ALA:HB1	33:Z:207:ILE:HD11	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:216:ILE:HG12	10:c:227:GLN:HG2	1.56	0.88
23:P:395:ARG:CZ	24:Q:365:ILE:CG1	2.51	0.87
26:S:182:LYS:O	26:S:186:TYR:N	2.06	0.87
31:X:85:ARG:HA	31:X:115:SER:HB2	1.56	0.87
23:P:413:ASN:O	23:P:417:HIS:N	2.05	0.87
25:R:293:THR:O	25:R:297:TYR:N	2.07	0.87
30:W:48:THR:HG22	30:W:66:THR:O	1.74	0.87
13:F:107:ARG:HA	13:F:110:HIS:HD2	1.38	0.87
26:S:201:ILE:CA	27:T:46:ILE:HD11	2.05	0.87
26:S:464:ARG:NH2	28:U:278:ILE:O	2.07	0.87
2:2:42:THR:HG22	2:2:58:ASP:OD1	1.73	0.87
7:7:284:ASN:OD1	5:j:39:LYS:NZ	2.07	0.87
14:G:68:GLN:HE22	14:G:86:ARG:HG2	1.39	0.87
6:6:142:SER:HB2	7:l:214:VAL:HG23	1.54	0.87
18:K:256:ASP:O	18:K:260:LEU:N	2.07	0.87
21:N:200:SER:O	21:N:204:SER:N	2.06	0.87
23:P:46:THR:HG21	23:P:88:GLN:HG2	1.55	0.87
23:P:79:LEU:HD13	23:P:97:ILE:HG12	1.54	0.87
10:C:216:ILE:HG12	10:C:227:GLN:HG2	1.56	0.87
18:K:243:VAL:CG2	19:L:303:ARG:HD3	2.04	0.87
22:O:103:LYS:CB	22:O:132:GLU:HG3	2.03	0.87
24:Q:20:TYR:O	24:Q:24:GLU:N	2.06	0.87
24:Q:392:GLN:HB2	25:R:352:SER:OG	1.74	0.87
16:I:239:GLY:C	16:I:242:PRO:N	2.33	0.87
16:I:280:ILE:HA	16:I:281:GLN:CB	2.01	0.87
17:J:127:GLU:HB3	17:J:129:LYS:HZ2	1.36	0.87
22:O:211:GLN:O	22:O:215:TYR:N	2.07	0.87
23:P:163:LEU:O	23:P:167:THR:OG1	1.92	0.87
24:Q:383:ASP:C	24:Q:384:LYS:NZ	2.30	0.87
25:R:400:TYR:CE2	26:S:457:PRO:HB2	2.10	0.87
15:H:58:ASP:O	15:H:62:ARG:N	2.07	0.87
15:H:176:VAL:H	15:H:189:PRO:HG3	1.39	0.87
7:l:140:LEU:HG	7:l:144:ARG:HH12	1.39	0.87
18:K:185:ARG:HA	18:K:189:GLU:HB3	1.57	0.87
21:N:666:GLN:NE2	21:N:711:ARG:O	2.08	0.87
21:N:774:ASN:N	21:N:869:ASP:OD2	2.06	0.87
24:Q:372:GLN:O	24:Q:376:LYS:HD3	1.72	0.87
27:T:141:LEU:HD22	27:T:169:GLN:HB2	1.57	0.87
33:Z:785:VAL:HG21	33:Z:864:MET:HB3	1.56	0.87
7:7:76:THR:HG23	7:7:108:LYS:CE	2.05	0.86
19:L:122:SER:OG	20:M:126:THR:OG1	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:243:VAL:HG12	22:O:248:TYR:HB3	1.55	0.86
23:P:144:VAL:HA	23:P:147:LYS:HB2	1.57	0.86
26:S:247:VAL:O	26:S:250:ALA:N	2.08	0.86
31:X:87:PHE:HB2	31:X:99:PHE:HB2	1.57	0.86
23:P:180:ILE:HG23	23:P:199:LEU:HB3	1.57	0.86
2:9:42:THR:CG2	2:9:58:ASP:CG	2.48	0.86
24:Q:383:ASP:CG	24:Q:384:LYS:HD2	1.91	0.86
18:K:243:VAL:CG2	19:L:303:ARG:CD	2.52	0.86
26:S:351:ALA:O	26:S:355:GLY:N	2.08	0.86
14:G:130:ARG:O	14:G:131:PRO:O	1.93	0.86
17:J:42:ARG:HB2	26:S:480:ARG:CZ	2.05	0.86
21:N:436:ASP:O	21:N:440:ASP:N	2.08	0.86
33:Z:327:GLN:HA	33:Z:331:GLY:HA3	1.56	0.86
15:H:96:PRO:CG	16:I:138:GLU:CG	2.50	0.86
15:H:331:ARG:HD2	15:H:334:LEU:HB2	1.58	0.86
19:L:254:LYS:HA	19:L:255:TYR:C	2.00	0.86
24:Q:302:VAL:HG22	24:Q:335:PHE:CZ	2.11	0.86
33:Z:602:LEU:CG	33:Z:882:LEU:CD2	2.54	0.86
7:7:140:LEU:HG	7:7:144:ARG:HH12	1.39	0.86
15:H:101:ARG:O	15:H:173:ARG:NH1	2.09	0.86
17:J:252:SER:O	17:J:257:ARG:NH2	2.08	0.86
18:K:56:LYS:HE2	21:N:192:LEU:HD11	1.58	0.86
33:Z:139:LEU:HA	33:Z:203:LEU:HB2	1.55	0.86
33:Z:304:PRO:HA	33:Z:340:LEU:HD13	1.57	0.86
11:d:118:GLN:NE2	12:e:84:ASP:OD1	2.09	0.86
15:H:97:LEU:HD12	15:H:189:PRO:CB	2.04	0.86
16:I:118:GLU:O	16:I:122:GLN:N	2.07	0.86
33:Z:516:THR:HB	33:Z:555:ALA:HB3	1.56	0.86
33:Z:807:VAL:O	33:Z:811:SER:N	2.07	0.86
19:L:115:GLU:HA	19:L:131:VAL:HG13	1.58	0.86
21:N:360:GLN:H	21:N:363:ALA:HB3	1.41	0.86
25:R:61:PRO:HG3	25:R:144:ILE:HG22	1.57	0.86
25:R:384:VAL:CG2	26:S:406:ASP:HB3	1.78	0.86
27:T:260:ILE:HG22	27:T:264:MET:HE2	1.58	0.86
33:Z:602:LEU:HD21	33:Z:882:LEU:HD23	0.87	0.86
33:Z:783:VAL:CG1	33:Z:788:PRO:HA	2.06	0.86
25:R:186:TYR:O	25:R:190:LYS:N	2.09	0.86
23:P:295:SER:HA	23:P:298:SER:HB2	1.57	0.85
24:Q:359:ILE:HG23	24:Q:373:VAL:CG1	2.05	0.85
30:W:143:ASN:O	30:W:174:VAL:N	2.09	0.85
18:K:342:SER:H	18:K:344:ARG:HH22	1.20	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:200:LYS:CD	25:R:202:GLY:CA	2.54	0.85
33:Z:512:ILE:HG22	33:Z:523:ALA:HB2	1.56	0.85
17:J:44:LEU:HD13	18:K:68:ILE:HB	1.57	0.85
17:J:75:VAL:O	17:J:110:SER:N	2.08	0.85
24:Q:302:VAL:HG22	24:Q:335:PHE:CE2	2.11	0.85
25:R:335:ARG:NE	25:R:376:GLN:OE1	2.09	0.85
26:S:321:GLN:HB3	26:S:326:ASP:HB2	1.57	0.85
7:7:76:THR:CG2	7:7:108:LYS:HZ3	1.89	0.85
15:H:261:ARG:NH2	15:H:273:ARG:HH11	1.75	0.85
24:Q:389:VAL:CB	25:R:345:TYR:CB	2.53	0.85
25:R:259:PHE:CZ	25:R:332:GLU:CB	2.59	0.85
33:Z:567:ALA:HB3	33:Z:595:MET:HA	1.57	0.85
21:N:241:LEU:O	21:N:245:LEU:N	2.07	0.85
24:Q:388:GLY:O	25:R:345:TYR:CB	2.25	0.85
13:f:11:VAL:HG21	14:g:128:SER:C	2.02	0.85
3:3:28:LYS:HA	3:3:164:ASN:HD22	1.37	0.85
15:H:23:ASP:CB	33:Z:218:GLU:OE2	2.25	0.85
24:Q:404:ASN:ND2	25:R:393:PRO:HD2	1.91	0.85
32:Y:80:GLU:O	32:Y:84:TYR:N	2.08	0.85
33:Z:325:GLY:HA2	33:Z:329:ILE:HD12	1.58	0.85
19:L:251:ILE:O	19:L:252:VAL:CG2	2.25	0.85
24:Q:353:PRO:CB	24:Q:357:VAL:HG11	2.06	0.85
21:N:365:PHE:HB2	21:N:399:PHE:HB3	1.58	0.85
24:Q:408:THR:HG22	29:V:255:ILE:HD11	1.59	0.85
25:R:382:ASP:HA	26:S:402:ILE:CD1	2.07	0.85
3:h:38:ARG:O	3:h:52:LYS:NZ	2.09	0.85
3:3:20:THR:CB	3:3:36:ASP:OD1	2.25	0.85
24:Q:135:HIS:O	24:Q:139:ILE:N	2.08	0.85
25:R:40:ILE:O	25:R:44:LYS:N	2.09	0.85
26:S:335:GLN:O	26:S:337:ASN:ND2	2.09	0.85
33:Z:575:MET:CB	33:Z:606:CYS:CB	2.53	0.85
33:Z:580:GLN:O	33:Z:584:VAL:HG12	1.77	0.85
3:h:63:CYS:HB2	3:h:117:ILE:HB	1.59	0.85
3:3:38:ARG:O	3:3:52:LYS:NZ	2.09	0.85
15:H:346:ARG:NH2	15:H:369:GLY:O	2.09	0.85
16:I:198:MET:HB3	17:J:231:ARG:HH21	1.41	0.85
21:N:318:LYS:HZ2	21:N:348:PHE:HB2	1.40	0.85
23:P:396:PRO:CD	24:Q:357:VAL:HG12	2.07	0.85
25:R:316:LEU:HA	25:R:322:LEU:HB3	1.57	0.85
25:R:358:GLY:HA3	32:Y:86:ARG:HD3	1.59	0.85
26:S:479:MET:SD	28:U:295:LYS:NZ	2.49	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Y:81:LEU:O	32:Y:85:LYS:N	2.08	0.85
33:Z:165:TYR:HE2	33:Z:223:LEU:HB3	1.42	0.85
9:b:211:LEU:HB3	9:b:238:LEU:HD12	1.59	0.85
9:B:211:LEU:HB3	9:B:238:LEU:HD12	1.59	0.84
22:O:232:GLU:HG2	22:O:233:LEU:H	1.41	0.84
23:P:343:LYS:O	23:P:347:GLU:N	2.09	0.84
23:P:393:VAL:HG23	24:Q:352:GLU:H	1.42	0.84
24:Q:144:LEU:O	24:Q:148:LYS:N	2.09	0.84
27:T:206:LYS:HG3	27:T:211:PHE:HB2	1.56	0.84
28:U:137:TYR:HE1	28:U:156:HIS:HB2	1.41	0.84
25:R:215:GLY:O	25:R:223:ASN:ND2	2.09	0.84
3:h:20:THR:CB	3:h:52:LYS:NZ	2.40	0.84
2:2:42:THR:CG2	2:2:58:ASP:CG	2.49	0.84
8:A:91:ARG:HH12	14:G:157:TYR:H	1.23	0.84
28:U:137:TYR:CE1	28:U:156:HIS:HB2	2.12	0.84
30:W:16:SER:OG	30:W:115:CYS:SG	2.35	0.84
15:H:169:GLU:HG2	15:H:170:GLU:HG3	1.58	0.84
15:H:403:ARG:HB2	15:H:406:LEU:HG	1.60	0.84
17:J:277:ASN:HD21	17:J:309:ARG:HH21	1.21	0.84
23:P:383:LEU:HA	23:P:386:GLN:HB2	1.60	0.84
24:Q:55:GLU:HA	24:Q:58:ILE:HB	1.59	0.84
26:S:209:ILE:O	26:S:213:THR:N	2.11	0.84
30:W:16:SER:HB3	30:W:26:PHE:HB2	1.59	0.84
33:Z:106:TRP:HB2	33:Z:140:LEU:HD22	1.57	0.84
33:Z:509:LEU:O	33:Z:513:ALA:N	2.09	0.84
17:J:156:GLN:HE21	17:J:160:ILE:HG13	1.41	0.84
19:L:300:GLU:O	19:L:303:ARG:NH1	2.09	0.84
21:N:150:LEU:O	21:N:154:LEU:N	2.10	0.84
21:N:204:SER:HB3	21:N:208:ARG:HH12	1.42	0.84
22:O:41:LEU:HD11	22:O:81:TYR:HB3	1.58	0.84
24:Q:424:ASP:OD1	25:R:416:LYS:NZ	2.10	0.84
26:S:421:TYR:O	26:S:425:ARG:N	2.10	0.84
29:V:237:ASN:HB2	29:V:238:LEU:HB3	1.59	0.84
33:Z:568:LEU:CD2	33:Z:599:ILE:HG12	1.94	0.84
33:Z:926:ASN:HB3	33:Z:956:LEU:HB3	1.58	0.84
15:H:96:PRO:HA	15:H:192:ASP:N	1.92	0.84
24:Q:355:GLU:OE2	24:Q:399:VAL:HG22	1.77	0.84
15:H:62:ARG:O	15:H:66:LYS:N	2.10	0.84
15:H:101:ARG:HE	15:H:150:LYS:HE2	1.41	0.84
15:H:336:LEU:O	15:H:370:ARG:NH2	2.10	0.84
16:I:188:GLN:HA	16:I:189:ASP:OD1	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:356:CYS:C	24:Q:357:VAL:HG13	2.01	0.84
24:Q:401:GLU:HB2	25:R:392:ARG:HH11	1.42	0.84
25:R:146:ASP:CB	25:R:148:ASP:OD2	2.23	0.84
25:R:148:ASP:O	25:R:150:ALA:N	2.10	0.84
25:R:204:TRP:HE1	25:R:237:THR:HG21	1.42	0.84
26:S:250:ALA:O	26:S:254:ILE:N	2.09	0.84
3:h:55:ARG:NH2	3:h:58:ASP:OD1	2.10	0.84
2:2:94:GLN:HE22	3:h:138:VAL:H	1.19	0.84
15:H:96:PRO:HG3	16:I:138:GLU:CG	2.07	0.84
16:I:328:GLU:HA	16:I:331:ARG:HB3	1.59	0.84
21:N:466:LEU:O	21:N:470:LEU:N	2.11	0.84
21:N:758:VAL:H	21:N:871:MET:HA	1.41	0.84
22:O:125:GLY:O	22:O:129:ILE:N	2.10	0.84
26:S:418:THR:O	26:S:422:MET:N	2.09	0.84
1:8:21:PHE:HZ	2:9:137:ARG:HG3	1.42	0.84
16:I:242:PRO:CG	16:I:346:ARG:HA	2.08	0.84
24:Q:382:LEU:N	24:Q:383:ASP:HA	1.92	0.84
25:R:371:PHE:CB	25:R:377:LEU:HD11	2.08	0.84
33:Z:397:ASP:O	33:Z:401:VAL:N	2.10	0.84
12:E:243:LEU:O	12:E:247:GLU:N	2.11	0.84
15:H:216:ASP:O	15:H:220:LYS:NZ	2.10	0.84
15:H:297:MET:HE2	15:H:301:LYS:HE3	1.60	0.84
27:T:250:MET:H	27:T:252:GLU:HB2	1.43	0.84
28:U:65:VAL:HG11	30:W:92:GLN:HG3	1.60	0.84
8:a:91:ARG:HH12	14:g:157:TYR:H	1.23	0.84
12:E:223:THR:O	12:E:227:GLY:N	2.10	0.83
25:R:319:CYS:HB2	25:R:322:LEU:HD12	1.60	0.83
25:R:373:PRO:CB	26:S:394:ILE:HG21	2.08	0.83
33:Z:124:MET:HE1	33:Z:129:ASN:HA	1.60	0.83
1:8:49:ILE:HA	1:8:55:ASN:H	1.44	0.83
20:M:339:ARG:HB3	20:M:342:ARG:HB2	1.60	0.83
21:N:892:PRO:HA	21:N:906:ARG:HB3	1.60	0.83
23:P:255:ALA:HA	23:P:258:LYS:HE2	1.59	0.83
24:Q:383:ASP:HB2	24:Q:384:LYS:HB3	1.57	0.83
26:S:399:TYR:O	26:S:445:THR:OG1	1.97	0.83
33:Z:308:LYS:NZ	33:Z:919:GLU:O	2.11	0.83
33:Z:376:SER:O	33:Z:380:ASN:N	2.10	0.83
33:Z:535:VAL:HA	33:Z:573:LEU:HA	1.60	0.83
12:e:243:LEU:O	12:e:247:GLU:N	2.11	0.83
3:3:20:THR:CB	3:3:52:LYS:HZ3	1.91	0.83
19:L:104:LEU:O	19:L:148:LEU:N	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:31:GLN:HB3	20:M:35:LYS:HE3	1.58	0.83
20:M:247:ALA:HB1	20:M:249:PRO:HD2	1.59	0.83
22:O:43:GLU:HA	22:O:47:LYS:HD3	1.59	0.83
26:S:346:TYR:O	26:S:350:LYS:N	2.10	0.83
19:L:257:GLY:C	19:L:258:GLU:HG3	2.04	0.83
22:O:20:PRO:O	22:O:26:PHE:CB	2.27	0.83
23:P:392:LYS:HZ2	24:Q:354:PHE:CB	1.90	0.83
23:P:393:VAL:HG21	24:Q:351:ILE:C	2.03	0.83
24:Q:314:PHE:CD1	24:Q:335:PHE:CE2	2.64	0.83
27:T:34:LEU:HD13	27:T:58:THR:HG23	1.60	0.83
19:L:345:ARG:NH1	19:L:346:LYS:O	2.11	0.83
21:N:221:ASP:OD1	21:N:894:ARG:NH1	2.12	0.83
22:O:239:MET:O	22:O:243:VAL:N	2.12	0.83
26:S:290:ASN:O	26:S:294:ILE:N	2.12	0.83
33:Z:225:LEU:HD21	33:Z:252:CYS:HB3	1.60	0.83
20:M:389:ALA:O	20:M:393:ALA:N	2.11	0.83
24:Q:302:VAL:HG21	24:Q:335:PHE:CZ	2.13	0.83
27:T:76:ASP:O	27:T:80:ASN:N	2.09	0.83
28:U:209:GLU:O	28:U:213:LYS:N	2.10	0.83
33:Z:269:TYR:CA	33:Z:272:TYR:CD2	2.62	0.83
12:e:223:THR:O	12:e:227:GLY:N	2.10	0.83
16:I:281:GLN:CA	17:J:220:GLN:O	2.26	0.83
33:Z:927:VAL:HG22	33:Z:957:LEU:H	1.43	0.83
9:B:241:GLN:NE2	9:B:245:ASP:OD1	2.11	0.83
17:J:159:GLU:HB3	17:J:314:ILE:HD13	1.61	0.83
22:O:130:ASP:O	22:O:134:ALA:N	2.12	0.83
26:S:422:MET:HA	26:S:425:ARG:CG	2.08	0.83
3:3:89:TYR:OH	14:G:115:ARG:NE	2.09	0.83
18:K:207:ARG:NH1	18:K:303:MET:O	2.12	0.83
24:Q:404:ASN:HD21	25:R:393:PRO:CD	1.91	0.83
25:R:382:ASP:CG	26:S:402:ILE:HD12	2.04	0.83
33:Z:605:SER:C	33:Z:878:LEU:CD2	2.39	0.83
19:L:401:PHE:HA	19:L:404:ARG:HB3	1.60	0.82
24:Q:343:LEU:O	24:Q:347:LEU:CG	2.27	0.82
25:R:185:LEU:O	25:R:189:GLU:N	2.11	0.82
3:3:63:CYS:HB2	3:3:117:ILE:HB	1.59	0.82
8:A:43:LEU:HA	8:A:170:ALA:HA	1.61	0.82
17:J:130:ALA:HA	17:J:131:ASP:OD1	1.77	0.82
18:K:240:SER:OG	19:L:306:MET:HB3	1.79	0.82
20:M:136:ASP:OD2	20:M:139:LYS:NZ	2.12	0.82
23:P:287:ASP:O	23:P:289:ASN:ND2	2.11	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:31:LEU:HD21	24:Q:58:ILE:HD11	1.60	0.82
24:Q:79:PRO:HG3	24:Q:124:PHE:HE2	1.43	0.82
27:T:220:PHE:O	27:T:224:ARG:N	2.09	0.82
22:O:240:GLU:N	22:O:241:THR:OG1	2.11	0.82
24:Q:309:ARG:CA	24:Q:349:LYS:HG3	2.08	0.82
24:Q:314:PHE:CZ	24:Q:335:PHE:CD2	2.66	0.82
27:T:250:MET:HA	27:T:252:GLU:N	1.94	0.82
30:W:98:LEU:HB3	30:W:108:GLN:HG2	1.60	0.82
18:K:342:SER:C	18:K:343:LEU:HD12	2.04	0.82
19:L:254:LYS:H	19:L:255:TYR:HB2	1.42	0.82
20:M:77:TYR:HE2	20:M:156:LEU:HD12	1.44	0.82
22:O:310:PHE:CD1	22:O:348:VAL:HG22	2.13	0.82
24:Q:9:GLU:O	24:Q:13:ARG:N	2.11	0.82
25:R:413:LYS:HA	25:R:416:LYS:HB3	1.61	0.82
26:S:257:LEU:HD13	26:S:260:PRO:HD2	1.61	0.82
29:V:116:CYS:SG	29:V:117:TRP:N	2.43	0.82
33:Z:250:VAL:HG21	33:Z:284:LEU:HD13	1.60	0.82
33:Z:568:LEU:HD22	33:Z:602:LEU:HD11	1.61	0.82
33:Z:601:VAL:HG12	33:Z:746:ILE:CD1	2.09	0.82
33:Z:615:LEU:HA	33:Z:618:GLN:HB3	1.58	0.82
24:Q:383:ASP:CA	24:Q:384:LYS:HB3	2.08	0.82
25:R:380:VAL:HG13	26:S:398:THR:C	2.04	0.82
33:Z:568:LEU:CD2	33:Z:602:LEU:HD12	2.08	0.82
16:I:273:ARG:HA	16:I:307:PHE:HB3	1.58	0.82
24:Q:54:GLN:O	24:Q:57:SER:OG	1.96	0.82
24:Q:359:ILE:O	24:Q:363:SER:N	2.09	0.82
27:T:89:TYR:HA	27:T:102:LYS:HE3	1.61	0.82
28:U:54:LEU:HB3	28:U:68:LEU:HD11	1.61	0.82
33:Z:910:PRO:HG2	33:Z:912:PHE:HB3	1.61	0.82
8:a:21:PRO:HA	9:b:23:TYR:CE1	2.15	0.82
1:1:49:ILE:HA	1:1:55:ASN:H	1.44	0.82
15:H:95:HIS:CE1	16:I:140:ILE:CG1	2.63	0.82
20:M:288:THR:OG1	20:M:331:ASP:OD2	1.95	0.82
20:M:375:ASN:HD21	20:M:377:GLN:HE21	1.28	0.82
25:R:165:GLY:HA2	25:R:168:ILE:HD12	1.60	0.82
25:R:371:PHE:HB2	25:R:377:LEU:HD11	1.60	0.82
33:Z:243:GLN:O	33:Z:244:ARG:C	2.22	0.82
1:1:214:HIS:HD2	1:1:217:VAL:HG23	1.45	0.82
22:O:225:ASP:HA	22:O:226:LYS:HB2	1.62	0.82
18:K:77:ARG:NH2	21:N:576:VAL:O	2.12	0.82
18:K:344:ARG:O	18:K:345:ASP:C	2.23	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:108:VAL:HA	19:L:119:VAL:HG22	1.62	0.82
21:N:399:PHE:HE1	21:N:438:ASP:HA	1.43	0.82
22:O:176:SER:O	22:O:180:LYS:N	2.13	0.82
26:S:409:LEU:HA	26:S:412:ASN:HB2	1.62	0.82
33:Z:272:TYR:CB	33:Z:276:ASN:HA	2.10	0.82
16:I:225:VAL:HG13	16:I:350:LYS:HG3	1.62	0.82
18:K:282:PHE:HE2	19:L:295:THR:HB	1.45	0.82
22:O:356:ARG:O	22:O:357:ILE:HG12	1.80	0.82
25:R:296:LEU:O	25:R:299:SER:N	2.13	0.82
33:Z:142:ASP:HB3	33:Z:202:ARG:HB3	1.62	0.82
9:b:241:GLN:NE2	9:b:245:ASP:OD1	2.11	0.82
7:7:96:THR:HA	7:7:102:ALA:H	1.45	0.81
12:E:28:LEU:HA	12:E:31:ILE:HD12	1.61	0.81
14:G:16:SER:OG	14:G:18:ASP:OD1	1.97	0.81
14:G:218:TRP:HZ3	14:G:223:GLU:HB2	1.45	0.81
33:Z:291:GLU:CB	33:Z:294:ILE:CD1	2.50	0.81
3:3:55:ARG:NH2	3:3:58:ASP:OD1	2.10	0.81
16:I:131:LEU:HD13	16:I:184:VAL:HG21	1.61	0.81
19:L:257:GLY:O	19:L:258:GLU:HG3	1.80	0.81
24:Q:160:ASP:OD1	24:Q:163:ARG:NH2	2.13	0.81
29:V:23:THR:N	29:V:25:GLU:OE2	2.13	0.81
33:Z:616:LEU:HA	33:Z:746:ILE:HD12	1.62	0.81
1:8:21:PHE:HB3	2:9:34:THR:HG23	1.62	0.81
12:E:122:ARG:HG2	12:E:132:ARG:HD2	1.62	0.81
17:J:136:LEU:HD12	17:J:217:GLU:HG3	1.61	0.81
17:J:187:LEU:HB2	17:J:293:ALA:HB1	1.61	0.81
19:L:224:PRO:HA	19:L:228:LYS:HD3	1.61	0.81
24:Q:202:ARG:NH2	24:Q:222:SER:OG	2.13	0.81
24:Q:309:ARG:HB2	24:Q:349:LYS:HG3	0.98	0.81
24:Q:309:ARG:C	24:Q:346:ASN:HA	2.05	0.81
26:S:160:ARG:HH12	26:S:206:GLN:HG2	1.43	0.81
27:T:213:ASN:HB3	27:T:216:GLU:HG3	1.62	0.81
27:T:252:GLU:HG2	27:T:256:LYS:CB	2.09	0.81
33:Z:275:GLN:CB	33:Z:278:LEU:CB	2.50	0.81
11:d:7:ALA:N	12:e:125:GLU:OE2	2.11	0.81
7:l:96:THR:HA	7:l:102:ALA:H	1.45	0.81
15:H:102:CYS:HB3	15:H:170:GLU:HB2	1.61	0.81
18:K:255:ARG:HB2	18:K:302:GLN:HE22	1.46	0.81
19:L:253:ASP:CA	20:M:256:ILE:O	2.29	0.81
21:N:439:VAL:O	21:N:443:LEU:N	2.13	0.81
25:R:263:ARG:HH22	25:R:267:LYS:HD3	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:34:VAL:HA	28:U:94:HIS:HA	1.59	0.81
33:Z:541:ASP:O	33:Z:545:SER:N	2.13	0.81
33:Z:757:SER:O	33:Z:761:PHE:N	2.14	0.81
23:P:38:GLN:HB3	23:P:62:ILE:HG12	1.62	0.81
24:Q:174:LEU:O	24:Q:178:HIS:ND1	2.14	0.81
25:R:149:ASN:O	25:R:153:THR:N	2.10	0.81
26:S:469:ASN:O	26:S:473:ASP:N	2.13	0.81
28:U:174:LEU:HD13	29:V:213:LEU:HD23	1.62	0.81
33:Z:333:GLY:HA3	33:Z:341:TYR:HB2	1.63	0.81
3:3:180:GLN:HE21	3:h:155:GLY:HA2	1.45	0.81
7:7:173:GLY:HA2	7:7:191:ASP:HA	1.62	0.81
14:G:52:LYS:O	14:G:213:GLU:N	2.13	0.81
21:N:712:ASN:OD1	21:N:873:ARG:NH1	2.14	0.81
22:O:142:ASP:O	22:O:144:VAL:N	2.14	0.81
23:P:110:LEU:HD23	23:P:113:ASN:HD22	1.44	0.81
23:P:306:ASN:HA	23:P:310:ARG:NH1	1.96	0.81
26:S:218:LEU:HD22	26:S:230:LYS:HZ2	1.46	0.81
30:W:68:GLU:OE2	30:W:70:GLY:N	2.12	0.81
33:Z:585:LEU:CG	33:Z:603:VAL:CG1	2.51	0.81
17:J:191:PRO:HA	17:J:253:ILE:O	1.81	0.81
19:L:82:ARG:HA	19:L:85:GLU:HB3	1.62	0.81
19:L:167:VAL:HA	19:L:172:SER:H	1.45	0.81
24:Q:167:LYS:HD3	24:Q:171:LYS:HE3	1.61	0.81
25:R:259:PHE:CG	25:R:333:MET:HE3	2.14	0.81
26:S:225:HIS:NE2	26:S:228:GLU:OE2	2.14	0.81
28:U:141:GLU:N	28:U:153:THR:H	1.78	0.81
33:Z:269:TYR:OH	33:Z:299:ASP:OD2	1.97	0.81
33:Z:584:VAL:HG13	33:Z:603:VAL:CG1	2.11	0.81
14:g:52:LYS:O	14:g:213:GLU:N	2.13	0.81
18:K:48:TYR:HB2	21:N:152:LEU:HG	1.63	0.81
23:P:338:TRP:O	23:P:342:GLN:N	2.14	0.81
25:R:330:VAL:HB	25:R:331:ARG:H	1.44	0.81
33:Z:273:LEU:O	33:Z:275:GLN:N	2.14	0.81
12:e:35:SER:HB3	12:e:51:GLU:HB3	1.63	0.81
14:g:218:TRP:HZ3	14:g:223:GLU:HB2	1.45	0.81
2:2:221:ASP:HB3	2:2:224:SER:HB3	1.63	0.81
6:6:174:MET:HA	6:k:174:MET:HA	1.63	0.81
17:J:217:GLU:OE1	17:J:220:GLN:NE2	2.13	0.81
21:N:360:GLN:O	21:N:364:LYS:N	2.13	0.81
24:Q:351:ILE:CB	24:Q:352:GLU:HB3	2.10	0.81
24:Q:378:SER:O	24:Q:386:PHE:HB2	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:129:LEU:O	27:T:132:HIS:NE2	2.14	0.81
27:T:198:ASP:HA	27:T:235:PHE:HB2	1.61	0.81
14:g:16:SER:OG	14:g:18:ASP:OD1	1.97	0.81
17:J:387:GLY:O	17:J:391:ASN:N	2.13	0.81
20:M:354:GLU:HG2	20:M:357:ARG:NH2	1.95	0.81
22:O:99:LEU:HD12	22:O:132:GLU:OE1	1.80	0.81
33:Z:318:LYS:O	33:Z:322:GLU:N	2.14	0.81
14:g:126:TYR:CB	14:g:129:VAL:HG22	2.08	0.81
21:N:254:SER:HB2	21:N:286:LEU:HD21	1.61	0.80
24:Q:314:PHE:HB2	24:Q:342:LEU:CD1	2.11	0.80
25:R:395:ASN:HD21	28:U:274:MET:HE1	1.46	0.80
33:Z:884:THR:HG22	33:Z:903:MET:HB2	1.62	0.80
15:H:253:GLY:HA2	15:H:257:THR:H	1.45	0.80
15:H:282:LYS:HZ1	17:J:223:ILE:HB	1.46	0.80
18:K:158:ILE:HD11	18:K:253:MET:H	1.45	0.80
21:N:59:GLU:HB3	21:N:85:ALA:HA	1.63	0.80
25:R:332:GLU:O	25:R:336:LYS:N	2.13	0.80
25:R:371:PHE:HB3	25:R:377:LEU:CD2	2.10	0.80
29:V:129:PHE:O	29:V:132:LEU:N	2.14	0.80
9:b:14:PRO:HA	10:c:24:TYR:CE1	2.15	0.80
1:8:214:HIS:HD2	1:8:217:VAL:HG23	1.45	0.80
15:H:59:ILE:HG13	16:I:126:ILE:HG12	1.63	0.80
16:I:134:GLY:O	16:I:174:VAL:N	2.13	0.80
21:N:445:GLY:HA2	21:N:448:LEU:HD12	1.63	0.80
22:O:83:LEU:HD11	22:O:102:LEU:HD21	1.54	0.80
25:R:371:PHE:CB	25:R:377:LEU:HD21	2.10	0.80
25:R:381:ILE:N	26:S:398:THR:HB	1.95	0.80
30:W:143:ASN:ND2	30:W:149:GLN:O	2.14	0.80
33:Z:196:SER:HB2	33:Z:201:LEU:HD21	1.63	0.80
8:a:43:LEU:HA	8:a:170:ALA:HA	1.61	0.80
22:O:140:LYS:NZ	22:O:142:ASP:HA	1.96	0.80
24:Q:71:LYS:O	24:Q:75:ARG:N	2.14	0.80
24:Q:339:TYR:CE1	24:Q:342:LEU:CD1	2.63	0.80
26:S:239:ARG:HA	26:S:242:LEU:HB2	1.63	0.80
12:e:28:LEU:HA	12:e:31:ILE:HD12	1.61	0.80
18:K:134:SER:O	18:K:259:ARG:NH2	2.14	0.80
18:K:363:ALA:HB1	18:K:364:PRO:CD	2.11	0.80
20:M:255:TYR:HB2	20:M:258:GLU:HB2	1.62	0.80
25:R:76:GLN:HB2	25:R:87:SER:HB2	1.62	0.80
33:Z:761:PHE:CE2	33:Z:780:MET:SD	2.75	0.80
15:H:184:GLU:N	15:H:185:LEU:HA	1.97	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:281:GLN:CG	17:J:224:GLY:N	2.44	0.80
20:M:334:ASP:HB3	20:M:337:LEU:HG	1.62	0.80
21:N:293:LEU:HD13	21:N:379:LEU:HD12	1.64	0.80
21:N:405:LEU:HD11	21:N:442:LEU:HD12	1.62	0.80
25:R:131:ALA:HB2	25:R:160:LYS:HB2	1.64	0.80
26:S:422:MET:CA	26:S:425:ARG:CD	2.55	0.80
14:g:115:ARG:NE	3:h:89:TYR:OH	2.15	0.80
16:I:239:GLY:O	16:I:242:PRO:HD3	1.81	0.80
18:K:344:ARG:O	18:K:345:ASP:O	1.99	0.80
23:P:42:LEU:HD11	23:P:88:GLN:HE21	1.46	0.80
24:Q:262:LEU:HA	24:Q:265:MET:HB3	1.64	0.80
27:T:259:ILE:O	27:T:263:ALA:N	2.13	0.80
15:H:62:ARG:HD2	16:I:126:ILE:HG23	1.63	0.80
23:P:224:LEU:HA	23:P:227:ILE:HD12	1.62	0.80
28:U:104:LEU:HD13	28:U:152:LYS:HZ2	1.46	0.80
33:Z:823:ASN:ND2	33:Z:860:GLY:O	2.14	0.80
7:l:173:GLY:HA2	7:l:191:ASP:HA	1.62	0.80
5:5:39:LYS:NZ	7:l:284:ASN:O	2.15	0.80
16:I:199:LYS:HG3	17:J:278:GLN:HG3	1.64	0.80
17:J:127:GLU:O	17:J:129:LYS:HE3	1.81	0.80
20:M:303:ARG:O	20:M:307:GLU:N	2.13	0.80
23:P:392:LYS:HE3	24:Q:354:PHE:HB2	0.80	0.80
24:Q:29:SER:HA	24:Q:32:ASP:HB2	1.64	0.80
25:R:371:PHE:O	25:R:377:LEU:CD1	2.25	0.80
33:Z:208:VAL:HG22	33:Z:220:ALA:HB1	1.63	0.80
11:D:133:THR:OG1	11:D:150:THR:OG1	1.99	0.80
18:K:344:ARG:CG	18:K:378:LEU:O	2.29	0.80
21:N:615:ALA:O	21:N:619:CYS:N	2.15	0.80
22:O:65:PHE:HB2	22:O:72:LYS:HG2	1.63	0.80
24:Q:419:LEU:HD13	28:U:285:ILE:HG21	1.64	0.80
26:S:216:LYS:HA	26:S:219:LYS:HD3	1.62	0.80
28:U:140:ILE:CB	28:U:153:THR:HB	2.12	0.80
29:V:250:GLN:HA	29:V:253:LYS:HE2	1.64	0.80
11:d:133:THR:OG1	11:d:150:THR:OG1	1.99	0.80
18:K:371:LEU:HD11	18:K:407:LEU:HB3	1.64	0.79
21:N:377:GLY:H	21:N:411:ILE:HG23	1.46	0.79
22:O:83:LEU:CG	22:O:102:LEU:CD2	2.54	0.79
25:R:263:ARG:O	25:R:267:LYS:N	2.15	0.79
25:R:382:ASP:HA	26:S:402:ILE:HD11	1.64	0.79
3:3:66:GLY:HA3	3:3:114:ALA:HA	1.64	0.79
11:D:162:GLN:NE2	11:D:163:THR:O	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:173:LYS:HD2	21:N:173:LYS:N	1.95	0.79
21:N:775:CYS:HG	21:N:883:SER:HG	1.20	0.79
23:P:110:LEU:O	23:P:114:THR:N	2.11	0.79
23:P:204:LEU:HD11	23:P:217:LYS:HD3	1.64	0.79
23:P:393:VAL:CB	24:Q:352:GLU:C	2.41	0.79
24:Q:383:ASP:HA	24:Q:384:LYS:HB3	1.63	0.79
26:S:131:THR:OG1	26:S:174:ARG:NH2	2.12	0.79
30:W:164:PRO:O	30:W:168:THR:OG1	2.00	0.79
33:Z:585:LEU:CG	33:Z:603:VAL:HG21	2.11	0.79
12:e:122:ARG:HG2	12:e:132:ARG:HD2	1.62	0.79
6:6:106:GLY:O	6:6:115:GLU:N	2.15	0.79
8:A:147:ASP:O	8:A:151:GLY:N	2.15	0.79
15:H:96:PRO:CD	16:I:138:GLU:HG3	2.13	0.79
17:J:342:ASN:HB3	17:J:345:LYS:HD3	1.64	0.79
19:L:225:GLY:O	20:M:339:ARG:NH2	2.13	0.79
22:O:166:ARG:HA	22:O:169:ASN:HB3	1.62	0.79
27:T:252:GLU:HG2	27:T:256:LYS:HB2	1.62	0.79
12:e:142:LEU:HB2	12:e:158:ALA:HB3	1.65	0.79
5:j:54:THR:O	5:j:106:GLY:N	2.15	0.79
2:2:42:THR:HG23	2:2:74:ARG:HH22	1.47	0.79
3:3:20:THR:CB	3:3:52:LYS:HZ2	1.94	0.79
15:H:54:ASN:N	16:I:122:GLN:OE1	2.16	0.79
16:I:307:PHE:HE2	16:I:309:ASP:HB2	1.47	0.79
28:U:193:GLN:HE21	29:V:296:LEU:HD21	1.47	0.79
28:U:212:ASP:HA	28:U:215:ILE:HB	1.62	0.79
30:W:140:ASP:HB3	30:W:190:ILE:HG12	1.64	0.79
33:Z:986:ASN:O	33:Z:990:ARG:N	2.15	0.79
13:F:33:SER:HB3	13:F:62:LYS:HZ3	1.47	0.79
17:J:129:LYS:HE2	17:J:129:LYS:HA	1.65	0.79
19:L:189:GLN:NE2	19:L:348:GLU:O	2.15	0.79
21:N:316:LYS:O	21:N:320:SER:OG	1.99	0.79
22:O:46:THR:O	22:O:50:ASP:N	2.14	0.79
22:O:76:LEU:HB3	22:O:80:LYS:HE2	1.64	0.79
22:O:380:LEU:HD13	27:T:258:ASN:HD22	1.47	0.79
23:P:411:LEU:HG	23:P:415:TRP:HB2	1.64	0.79
28:U:124:ASP:N	28:U:133:PRO:O	2.16	0.79
29:V:50:MET:O	29:V:71:MET:N	2.14	0.79
12:e:16:SER:N	12:e:20:ARG:O	2.16	0.79
2:2:232:ILE:N	2:2:240:THR:O	2.16	0.79
12:E:16:SER:N	12:E:20:ARG:O	2.16	0.79
13:F:11:VAL:HG21	14:G:128:SER:C	2.07	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:163:VAL:HG12	15:H:164:SER:H	1.47	0.79
18:K:342:SER:H	18:K:344:ARG:NH2	1.80	0.79
18:K:344:ARG:NH1	18:K:344:ARG:H	1.80	0.79
22:O:12:SER:HA	22:O:14:LEU:H	1.44	0.79
22:O:132:GLU:OE1	22:O:135:ARG:NH2	2.16	0.79
22:O:272:VAL:O	22:O:276:LYS:N	2.15	0.79
24:Q:310:SER:CB	24:Q:349:LYS:HZ1	1.90	0.79
24:Q:329:GLU:HA	24:Q:332:ARG:HB3	1.63	0.79
26:S:422:MET:HA	26:S:425:ARG:HD2	1.64	0.79
28:U:168:GLU:HA	28:U:171:VAL:HB	1.64	0.79
33:Z:605:SER:HB3	33:Z:878:LEU:CD1	2.12	0.79
16:I:281:GLN:O	16:I:283:TYR:N	2.15	0.79
16:I:281:GLN:HB3	17:J:223:ILE:HA	1.63	0.79
25:R:153:THR:O	25:R:157:SER:N	2.14	0.79
4:i:138:HIS:HB3	4:i:140:PHE:HE2	1.48	0.79
15:H:287:GLY:O	15:H:291:VAL:N	2.14	0.79
20:M:302:GLN:HE21	20:M:306:LEU:HD11	1.46	0.79
22:O:250:TRP:O	22:O:254:LEU:N	2.15	0.79
23:P:193:TYR:O	23:P:197:THR:N	2.16	0.79
12:E:35:SER:HB3	12:E:51:GLU:HB3	1.63	0.79
21:N:719:ASN:O	21:N:723:GLY:N	2.16	0.79
22:O:311:GLU:O	22:O:315:LYS:N	2.13	0.79
24:Q:30:LEU:O	24:Q:54:GLN:NE2	2.15	0.79
24:Q:394:ASN:HB3	24:Q:396:TRP:HE1	1.48	0.79
25:R:110:ILE:HG22	25:R:114:ASN:HD21	1.47	0.79
25:R:187:VAL:O	25:R:191:LEU:N	2.11	0.79
8:a:89:ASP:OD1	14:g:121:GLN:NE2	2.16	0.79
10:c:144:TYR:HB2	10:c:147:GLN:HE21	1.46	0.79
13:f:176:LEU:HD22	14:g:57:LYS:HB3	1.65	0.79
2:9:221:ASP:HB3	2:9:224:SER:HB3	1.63	0.79
17:J:142:VAL:H	17:J:209:LYS:HA	1.47	0.79
18:K:253:MET:O	18:K:257:VAL:N	2.14	0.79
21:N:69:TYR:HB3	21:N:74:GLU:HB2	1.63	0.79
22:O:247:ASN:ND2	22:O:273:GLN:OE1	2.14	0.79
25:R:115:GLU:O	25:R:119:LYS:N	2.16	0.79
25:R:200:LYS:CD	25:R:202:GLY:HA2	2.13	0.79
25:R:406:GLN:O	25:R:410:LEU:N	2.14	0.79
4:4:138:HIS:HB3	4:4:140:PHE:HE2	1.48	0.78
12:E:142:LEU:HB2	12:E:158:ALA:HB3	1.65	0.78
16:I:135:THR:HA	16:I:173:SER:HA	1.65	0.78
18:K:154:SER:HB2	18:K:161:MET:HE3	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:327:LEU:HD21	29:V:164:LEU:HD11	1.65	0.78
22:O:1:MET:CA	22:O:35:GLU:O	2.31	0.78
22:O:385:GLU:HB2	28:U:190:LEU:H	1.45	0.78
26:S:200:GLU:H	26:S:201:ILE:C	1.91	0.78
30:W:25:ARG:HH22	30:W:144:PHE:H	1.30	0.78
15:H:312:ASP:O	16:I:327:ARG:NH2	2.15	0.78
18:K:404:GLN:NE2	18:K:408:GLU:OE2	2.16	0.78
21:N:376:LYS:HA	21:N:411:ILE:HG12	1.64	0.78
22:O:7:ILE:O	22:O:11:LEU:N	2.16	0.78
23:P:184:MET:HG2	23:P:196:ALA:HA	1.65	0.78
15:H:340:LEU:HD11	15:H:346:ARG:HD3	1.66	0.78
24:Q:59:LEU:HD11	24:Q:103:LYS:HG3	1.65	0.78
25:R:80:GLU:OE1	25:R:99:TYR:OH	2.00	0.78
33:Z:282:ILE:HG21	33:Z:974:THR:HG21	1.65	0.78
33:Z:291:GLU:O	33:Z:294:ILE:CG1	2.32	0.78
8:a:89:ASP:HA	14:g:121:GLN:HE22	1.49	0.78
13:f:33:SER:HB3	13:f:62:LYS:HZ3	1.47	0.78
6:k:106:GLY:O	6:k:115:GLU:N	2.15	0.78
7:7:267:ASP:OD1	5:j:203:ARG:NH1	2.16	0.78
18:K:245:LYS:NZ	19:L:256:ILE:H	1.81	0.78
21:N:718:GLU:HB2	21:N:725:LEU:HD23	1.63	0.78
22:O:16:MET:CA	22:O:72:LYS:CE	2.56	0.78
22:O:385:GLU:OE2	28:U:188:ILE:N	2.16	0.78
24:Q:155:LEU:HA	24:Q:158:ILE:HB	1.65	0.78
25:R:225:LYS:HD2	25:R:260:THR:HB	1.64	0.78
28:U:296:ILE:O	28:U:300:LYS:N	2.13	0.78
30:W:108:GLN:O	30:W:138:ALA:N	2.14	0.78
30:W:164:PRO:HG2	30:W:167:GLU:HB3	1.65	0.78
33:Z:243:GLN:OE1	33:Z:244:ARG:CB	2.32	0.78
21:N:332:VAL:HG23	21:N:355:TRP:HH2	1.49	0.78
24:Q:288:LYS:HE3	24:Q:290:THR:HA	1.64	0.78
24:Q:402:THR:HB	24:Q:403:PRO:CD	2.13	0.78
33:Z:357:ILE:HG21	33:Z:959:HIS:O	1.84	0.78
33:Z:382:ALA:HA	33:Z:385:PHE:CD2	2.18	0.78
12:e:80:GLY:HA3	12:e:140:VAL:HA	1.66	0.78
3:h:190:GLY:O	3:h:212:TYR:OH	2.01	0.78
5:j:28:ARG:O	5:j:42:LYS:NZ	2.16	0.78
3:3:55:ARG:HE	3:3:58:ASP:HA	1.49	0.78
10:C:144:TYR:HB2	10:C:147:GLN:HE21	1.46	0.78
22:O:72:LYS:HG3	22:O:73:ILE:HD12	1.65	0.78
25:R:400:TYR:HE1	26:S:461:PHE:HZ	1.11	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:152:LEU:O	26:S:156:VAL:N	2.14	0.78
31:X:30:GLN:HG2	31:X:100:TRP:CZ3	2.18	0.78
11:d:122:GLN:HB3	12:e:136:ARG:CZ	2.14	0.78
14:g:95:GLU:OE2	14:g:115:ARG:NH1	2.16	0.78
6:6:22:THR:O	6:6:23:ARG:NH1	2.17	0.78
2:9:42:THR:HG23	2:9:74:ARG:HH22	1.46	0.78
15:H:27:VAL:O	15:H:31:GLU:N	2.17	0.78
16:I:273:ARG:HG3	16:I:307:PHE:CD2	2.18	0.78
16:I:328:GLU:OE2	16:I:332:THR:OG1	2.01	0.78
17:J:32:LEU:HD13	26:S:224:LYS:HB3	1.63	0.78
20:M:74:GLN:HE22	20:M:150:LYS:HG3	1.47	0.78
21:N:326:SER:O	21:N:330:THR:N	2.13	0.78
21:N:776:TYR:N	21:N:864:LYS:O	2.17	0.78
22:O:8:ASP:O	22:O:13:THR:CB	2.32	0.78
22:O:72:LYS:HG3	22:O:73:ILE:H	1.47	0.78
22:O:140:LYS:O	22:O:142:ASP:N	2.15	0.78
24:Q:112:ASP:O	24:Q:116:PHE:N	2.15	0.78
25:R:263:ARG:NH2	25:R:267:LYS:CD	2.47	0.78
33:Z:411:LYS:HA	33:Z:415:MET:HB2	1.65	0.78
33:Z:544:THR:HA	33:Z:547:MET:HE2	1.65	0.78
33:Z:584:VAL:HG22	33:Z:588:ILE:HD12	1.64	0.78
33:Z:605:SER:HB3	33:Z:878:LEU:HG	0.79	0.78
1:1:163:SER:HB2	5:5:144:ASP:HB3	1.66	0.78
11:D:206:GLY:HA3	11:D:209:ASN:HD22	1.49	0.78
15:H:420:ARG:O	15:H:424:THR:N	2.17	0.78
21:N:154:LEU:O	21:N:158:LEU:N	2.13	0.78
21:N:440:ASP:O	21:N:444:HIS:N	2.16	0.78
33:Z:560:THR:HG23	33:Z:594:PRO:CB	2.14	0.78
33:Z:927:VAL:HG23	33:Z:928:ARG:O	1.84	0.78
11:d:206:GLY:HA3	11:d:209:ASN:HD22	1.49	0.78
7:7:242:ARG:HH21	6:k:141:PHE:HB3	1.49	0.78
20:M:303:ARG:HD3	20:M:306:LEU:HB2	1.66	0.78
25:R:413:LYS:O	25:R:417:TYR:N	2.14	0.78
27:T:257:THR:HA	27:T:260:ILE:HB	1.65	0.78
29:V:29:ILE:H	29:V:203:TYR:HA	1.49	0.78
33:Z:789:GLN:HG2	33:Z:792:VAL:HB	1.64	0.78
8:a:72:ILE:N	8:a:224:GLU:OE2	2.16	0.78
10:c:156:ASN:ND2	11:d:79:ASN:OD1	2.17	0.78
3:h:55:ARG:HE	3:h:58:ASP:HA	1.49	0.78
18:K:363:ALA:HB1	18:K:364:PRO:HD3	1.63	0.78
21:N:773:MET:HB3	21:N:884:PHE:HA	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:36:LEU:O	23:P:40:LEU:N	2.15	0.78
23:P:424:GLU:O	23:P:428:THR:N	2.13	0.78
24:Q:223:GLY:O	24:Q:227:CYS:N	2.17	0.78
26:S:471:LEU:HA	26:S:474:GLU:HB2	1.66	0.78
28:U:9:THR:HB	28:U:47:ARG:HA	1.65	0.78
5:5:28:ARG:O	5:5:42:LYS:NZ	2.16	0.77
11:D:36:VAL:HG12	11:D:161:ALA:HB1	1.66	0.77
23:P:115:ARG:HH22	23:P:146:ILE:HG13	1.49	0.77
28:U:235:LEU:O	28:U:259:ASN:ND2	2.17	0.77
33:Z:987:PRO:HB3	33:Z:990:ARG:HH21	1.49	0.77
8:a:144:VAL:HG12	8:a:154:ILE:HA	1.67	0.77
15:H:305:ILE:HA	15:H:350:LYS:HB2	1.67	0.77
17:J:32:LEU:HA	17:J:35:ARG:HB3	1.66	0.77
17:J:56:ARG:O	17:J:60:ASP:N	2.18	0.77
18:K:79:LEU:O	18:K:83:GLN:N	2.17	0.77
21:N:612:SER:H	21:N:618:ARG:HE	1.29	0.77
24:Q:383:ASP:HB2	24:Q:384:LYS:HD2	1.59	0.77
25:R:259:PHE:CE1	25:R:333:MET:HG2	2.18	0.77
26:S:136:CYS:O	26:S:140:LEU:N	2.17	0.77
29:V:243:SER:O	29:V:250:GLN:NE2	2.18	0.77
8:a:147:ASP:O	8:a:151:GLY:N	2.15	0.77
17:J:336:ASN:HA	25:R:204:TRP:CB	2.11	0.77
19:L:109:MET:SD	19:L:126:ARG:NE	2.57	0.77
19:L:283:VAL:HG13	19:L:286:ILE:HG13	1.65	0.77
22:O:43:GLU:H	22:O:47:LYS:HB3	1.50	0.77
22:O:132:GLU:HA	22:O:135:ARG:HH21	1.49	0.77
24:Q:412:ALA:HA	29:V:258:GLU:OE1	1.83	0.77
25:R:399:GLN:NE2	28:U:275:VAL:HG22	1.99	0.77
26:S:155:LEU:O	26:S:159:ASN:N	2.15	0.77
26:S:156:VAL:HG13	26:S:188:TYR:HE1	1.50	0.77
26:S:222:SER:OG	26:S:226:ASP:OD2	2.03	0.77
28:U:232:VAL:HG13	28:U:235:LEU:HD12	1.65	0.77
29:V:288:LEU:O	29:V:292:ILE:N	2.14	0.77
30:W:2:VAL:HG13	30:W:4:GLU:HG2	1.64	0.77
33:Z:275:GLN:CG	33:Z:278:LEU:CB	2.62	0.77
5:5:54:THR:O	5:5:106:GLY:N	2.15	0.77
7:7:145:GLU:OE2	11:D:111:ARG:NH2	2.17	0.77
8:A:19:PHE:HB3	8:A:23:GLY:HA2	1.64	0.77
15:H:59:ILE:HA	15:H:62:ARG:HB3	1.66	0.77
15:H:98:GLN:O	15:H:177:ASP:HB3	1.85	0.77
21:N:556:ALA:O	21:N:560:ALA:N	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:207:LEU:HA	22:O:210:ARG:HB3	1.66	0.77
23:P:146:ILE:O	23:P:150:GLU:N	2.15	0.77
25:R:267:LYS:HA	25:R:271:ILE:HB	1.67	0.77
25:R:400:TYR:OH	26:S:461:PHE:CZ	2.38	0.77
30:W:2:VAL:HG22	30:W:196:SER:HB3	1.65	0.77
33:Z:269:TYR:HA	33:Z:272:TYR:HE2	1.44	0.77
3:h:166:SER:N	3:h:169:GLU:OE1	2.18	0.77
16:I:164:ASP:HB3	16:I:167:LEU:HG	1.65	0.77
16:I:175:LEU:HG	16:I:187:LEU:HB2	1.67	0.77
18:K:93:PRO:HG3	29:V:144:ILE:HG21	1.67	0.77
18:K:93:PRO:O	18:K:141:ARG:NH1	2.17	0.77
21:N:136:ILE:HD13	21:N:139:ARG:HD3	1.67	0.77
21:N:169:ALA:O	21:N:173:LYS:HD3	1.84	0.77
22:O:14:LEU:CA	22:O:16:MET:O	2.32	0.77
31:X:75:TRP:HB3	31:X:126:ILE:HD13	1.66	0.77
6:k:22:THR:O	6:k:23:ARG:NH1	2.17	0.77
18:K:148:ASP:OD1	18:K:149:ILE:N	2.18	0.77
18:K:275:ASP:HA	18:K:278:ALA:HB2	1.67	0.77
19:L:303:ARG:NH2	19:L:304:THR:HG1	1.83	0.77
24:Q:142:ALA:O	24:Q:146:TYR:N	2.16	0.77
25:R:63:TYR:HA	25:R:66:LEU:HB3	1.65	0.77
30:W:37:PHE:HE2	30:W:68:GLU:O	1.66	0.77
5:j:74:TYR:CE2	5:j:78:GLU:HG3	2.20	0.77
1:8:57:ARG:NH1	1:8:240:ARG:O	2.18	0.77
10:C:137:TYR:HB2	10:C:149:TYR:HB2	1.66	0.77
15:H:376:GLU:CD	15:H:378:SER:CA	2.56	0.77
18:K:344:ARG:NE	18:K:378:LEU:O	2.17	0.77
18:K:388:GLN:OE1	19:L:213:LYS:N	2.18	0.77
19:L:68:ARG:O	19:L:72:ASP:N	2.15	0.77
19:L:227:GLY:O	19:L:231:LEU:N	2.18	0.77
20:M:259:GLY:O	20:M:263:VAL:N	2.15	0.77
23:P:421:GLU:O	23:P:425:HIS:N	2.14	0.77
24:Q:279:LYS:O	24:Q:283:ASN:N	2.17	0.77
24:Q:302:VAL:HG21	24:Q:335:PHE:CE2	2.18	0.77
25:R:301:TYR:CD2	25:R:357:PHE:HB3	2.20	0.77
25:R:369:GLY:HA2	25:R:372:ILE:CD1	2.15	0.77
26:S:155:LEU:HD23	26:S:158:PHE:HD2	1.50	0.77
28:U:275:VAL:HG13	28:U:278:ILE:HD12	1.67	0.77
33:Z:364:ASN:HD22	33:Z:954:PRO:HD2	1.48	0.77
33:Z:897:HIS:HD2	33:Z:899:GLN:HG2	1.50	0.77
8:a:19:PHE:HB3	8:a:23:GLY:HA2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:57:ARG:NH1	1:1:240:ARG:O	2.18	0.77
1:1:221:LEU:N	1:1:236:TYR:O	2.18	0.77
4:4:200:SER:O	4:4:223:ASN:ND2	2.17	0.77
7:7:82:ARG:NH1	7:7:200:ASP:OD2	2.18	0.77
15:H:65:GLU:O	15:H:69:VAL:N	2.12	0.77
15:H:75:GLY:O	15:H:103:THR:OG1	2.02	0.77
15:H:288:ALA:HA	15:H:335:GLU:HG2	1.67	0.77
16:I:250:GLY:HA3	16:I:377:PHE:HB3	1.67	0.77
21:N:632:LYS:O	21:N:667:GLN:NE2	2.16	0.77
23:P:130:ILE:O	23:P:136:ARG:NH1	2.17	0.77
26:S:319:CYS:HA	26:S:322:LEU:HD12	1.67	0.77
4:i:200:SER:O	4:i:223:ASN:ND2	2.17	0.77
1:8:163:SER:HB2	5:j:144:ASP:HB3	1.66	0.77
11:D:127:ARG:NH1	11:D:128:PRO:O	2.18	0.77
15:H:393:SER:HB2	15:H:398:VAL:HG11	1.65	0.77
17:J:71:TYR:HA	18:K:118:TYR:CD1	2.20	0.77
19:L:221:TYR:CE2	19:L:346:LYS:HG2	2.19	0.77
23:P:206:LYS:HA	23:P:209:LYS:HB2	1.67	0.77
24:Q:344:GLU:OE2	24:Q:379:GLN:CG	2.30	0.77
25:R:34:THR:HG22	25:R:70:TYR:HB2	1.65	0.77
29:V:51:GLY:HA2	29:V:71:MET:HG2	1.67	0.77
33:Z:275:GLN:O	33:Z:277:GLU:HA	1.83	0.77
5:j:8:ASN:OD1	5:j:57:ALA:N	2.18	0.77
1:8:221:LEU:N	1:8:236:TYR:O	2.18	0.77
2:9:42:THR:CG2	2:9:74:ARG:HH22	1.98	0.77
15:H:292:ARG:HG2	15:H:339:GLN:HE22	1.51	0.77
16:I:253:GLY:H	16:I:257:THR:HB	1.50	0.77
17:J:42:ARG:HA	17:J:45:GLU:HB3	1.65	0.77
21:N:528:ARG:HB3	21:N:531:LEU:HB2	1.66	0.77
24:Q:129:LYS:NZ	9:b:187:ASP:H	1.82	0.77
26:S:231:ALA:O	26:S:235:ASN:N	2.11	0.77
26:S:344:PRO:HG2	26:S:370:LEU:HD23	1.66	0.77
26:S:461:PHE:HD1	26:S:464:ARG:HD3	1.50	0.77
28:U:141:GLU:HA	28:U:153:THR:N	2.00	0.77
33:Z:436:LEU:O	33:Z:440:LEU:N	2.17	0.77
33:Z:445:PRO:HB2	33:Z:484:LYS:HB2	1.66	0.77
33:Z:601:VAL:HG12	33:Z:746:ILE:HD11	1.64	0.77
33:Z:834:LEU:O	33:Z:852:GLN:NE2	2.17	0.77
3:h:66:GLY:HA3	3:h:114:ALA:HA	1.64	0.77
2:2:102:ASP:O	2:2:106:GLU:N	2.14	0.76
3:3:190:GLY:O	3:3:212:TYR:OH	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:205:ASP:OD1	4:i:229:GLN:N	2.18	0.76
11:D:32:CYS:N	11:D:47:GLU:OE2	2.18	0.76
14:G:36:THR:HB	14:G:168:GLY:H	1.50	0.76
14:G:237:GLN:HA	14:G:240:ILE:HD12	1.67	0.76
15:H:385:ARG:NH2	15:H:411:CYS:O	2.18	0.76
21:N:781:ALA:H	21:N:878:GLN:HE22	1.31	0.76
24:Q:85:MET:O	24:Q:89:ALA:N	2.18	0.76
33:Z:504:GLU:O	33:Z:508:LEU:N	2.16	0.76
33:Z:509:LEU:HD13	33:Z:526:ALA:HB1	1.64	0.76
33:Z:751:ASP:O	33:Z:754:LYS:CB	2.33	0.76
10:c:137:TYR:HB2	10:c:149:TYR:HB2	1.66	0.76
2:2:86:ILE:HG12	2:2:147:ILE:HG12	1.68	0.76
9:B:29:LYS:NZ	9:B:166:LYS:O	2.18	0.76
17:J:333:ARG:NH1	25:R:205:GLU:HB3	2.01	0.76
22:O:7:ILE:O	22:O:11:LEU:CA	2.33	0.76
22:O:15:ARG:N	22:O:16:MET:CA	2.38	0.76
23:P:181:LEU:HG	23:P:223:LEU:HD11	1.65	0.76
23:P:382:ASP:O	23:P:386:GLN:N	2.18	0.76
24:Q:394:ASN:CB	24:Q:396:TRP:HE1	1.99	0.76
24:Q:409:TYR:HA	24:Q:412:ALA:HB3	1.68	0.76
25:R:380:VAL:HB	25:R:389:GLU:HB2	1.67	0.76
30:W:66:THR:HG21	30:W:71:LYS:CG	2.11	0.76
30:W:162:ASN:HD21	30:W:165:GLN:HA	1.48	0.76
33:Z:361:HIS:HA	33:Z:364:ASN:HB2	1.68	0.76
33:Z:602:LEU:CG	33:Z:882:LEU:HD23	2.14	0.76
8:a:193:HIS:ND1	8:a:194:ILE:O	2.18	0.76
9:b:29:LYS:NZ	9:b:166:LYS:O	2.18	0.76
11:d:189:GLU:O	11:d:193:LYS:N	2.17	0.76
1:1:21:PHE:HB3	2:2:34:THR:HG23	1.67	0.76
1:8:22:ASN:ND2	1:8:24:TYR:O	2.19	0.76
14:G:95:GLU:OE2	14:G:115:ARG:NH1	2.16	0.76
21:N:677:ASP:O	21:N:681:ASN:N	2.11	0.76
24:Q:415:LEU:HD11	29:V:258:GLU:HA	1.67	0.76
25:R:263:ARG:NH2	25:R:297:TYR:CE1	2.44	0.76
28:U:282:VAL:HA	28:U:285:ILE:HB	1.68	0.76
30:W:29:GLN:NE2	30:W:115:CYS:SG	2.58	0.76
33:Z:272:TYR:CD2	33:Z:277:GLU:HB3	2.21	0.76
10:c:187:ASP:HA	10:c:190:ILE:HD12	1.68	0.76
11:d:11:PHE:N	12:e:23:GLN:HE22	1.83	0.76
11:d:32:CYS:N	11:d:47:GLU:OE2	2.18	0.76
14:g:36:THR:HB	14:g:168:GLY:H	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:237:GLN:HA	14:g:240:ILE:HD12	1.67	0.76
1:1:22:ASN:ND2	1:1:24:TYR:O	2.19	0.76
2:9:232:ILE:N	2:9:240:THR:O	2.16	0.76
18:K:98:GLN:OE1	18:K:134:SER:OG	2.03	0.76
21:N:431:SER:O	21:N:472:ASN:ND2	2.18	0.76
22:O:58:ARG:HG2	22:O:61:LEU:HD12	1.67	0.76
22:O:83:LEU:HD21	22:O:102:LEU:CG	2.14	0.76
23:P:19:GLU:O	23:P:23:LYS:N	2.15	0.76
23:P:56:LYS:HD3	23:P:92:SER:HA	1.66	0.76
25:R:338:TYR:O	25:R:343:GLU:N	2.17	0.76
33:Z:344:LYS:HZ2	33:Z:921:GLU:HG2	1.50	0.76
12:e:211:LYS:O	12:e:216:ASN:ND2	2.18	0.76
2:2:136:ARG:NE	2:2:141:ASN:O	2.19	0.76
3:3:57:HIS:HB3	3:3:60:ILE:HB	1.68	0.76
16:I:174:VAL:HA	16:I:187:LEU:HB3	1.68	0.76
17:J:76:ILE:H	17:J:86:VAL:HA	1.49	0.76
17:J:187:LEU:H	17:J:293:ALA:HA	1.50	0.76
19:L:133:ASN:ND2	29:V:45:VAL:O	2.17	0.76
21:N:156:ILE:O	21:N:160:GLY:N	2.16	0.76
21:N:638:ILE:HG23	21:N:660:LEU:HD22	1.65	0.76
22:O:43:GLU:N	22:O:47:LYS:HB3	2.00	0.76
24:Q:61:LEU:HA	24:Q:64:LEU:HB2	1.67	0.76
25:R:206:ARG:HD3	25:R:209:ARG:HD2	1.67	0.76
26:S:435:LYS:N	26:S:444:GLU:O	2.14	0.76
33:Z:810:ASN:O	33:Z:814:ALA:N	2.15	0.76
3:h:57:HIS:HB3	3:h:60:ILE:HB	1.68	0.76
1:8:79:ASP:OD1	2:9:137:ARG:NH2	2.19	0.76
11:D:115:GLY:O	11:D:119:ARG:N	2.17	0.76
19:L:298:ASP:OD1	20:M:299:ARG:NH2	2.19	0.76
24:Q:77:PHE:HA	24:Q:80:HIS:HD2	1.50	0.76
24:Q:353:PRO:HB2	24:Q:357:VAL:HG11	1.66	0.76
25:R:369:GLY:HA2	25:R:372:ILE:HD11	1.67	0.76
10:c:45:VAL:HG22	10:c:186:VAL:HG13	1.68	0.76
2:2:35:GLN:NE2	2:2:142:PRO:O	2.19	0.76
5:5:74:TYR:CE2	5:5:78:GLU:HG3	2.20	0.76
16:I:281:GLN:HB3	17:J:223:ILE:HG12	1.68	0.76
20:M:407:GLN:HE22	20:M:411:LYS:HD3	1.49	0.76
23:P:319:GLU:HB3	23:P:323:ASN:HB3	1.66	0.76
25:R:372:ILE:HA	25:R:377:LEU:CD1	2.16	0.76
27:T:131:LYS:O	27:T:135:ASN:ND2	2.19	0.76
28:U:169:ILE:HG12	29:V:149:GLY:HA2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:180:ASP:OD2	11:d:183:GLU:N	2.18	0.76
4:i:109:LEU:HD12	4:i:142:ILE:HD11	1.66	0.76
7:7:242:ARG:NH2	6:k:141:PHE:HB3	2.00	0.76
2:9:35:GLN:NE2	2:9:142:PRO:O	2.19	0.76
2:9:86:ILE:HG12	2:9:147:ILE:HG12	1.68	0.76
2:9:136:ARG:NE	2:9:141:ASN:O	2.19	0.76
21:N:772:GLN:HB3	21:N:869:ASP:H	1.50	0.76
21:N:875:LEU:HD12	21:N:876:PRO:HD2	1.66	0.76
22:O:168:THR:O	22:O:172:TYR:N	2.18	0.76
24:Q:246:TYR:HA	24:Q:249:LEU:HB2	1.66	0.76
24:Q:285:LYS:O	24:Q:289:GLU:N	2.19	0.76
25:R:400:TYR:CZ	26:S:461:PHE:CE2	2.73	0.76
33:Z:367:SER:HB2	33:Z:859:LYS:O	1.85	0.76
10:C:45:VAL:HG22	10:C:186:VAL:HG13	1.68	0.76
18:K:344:ARG:O	18:K:349:ARG:HG3	1.86	0.76
20:M:335:PRO:O	20:M:339:ARG:HB2	1.86	0.76
23:P:298:SER:O	23:P:302:LEU:N	2.19	0.76
24:Q:315:ASN:ND2	24:Q:339:TYR:OH	2.18	0.76
26:S:205:ASN:O	26:S:209:ILE:N	2.17	0.76
26:S:348:LEU:O	26:S:352:VAL:N	2.14	0.76
26:S:356:ASP:HB2	26:S:359:LYS:HE3	1.66	0.76
29:V:37:MET:O	29:V:41:GLY:N	2.14	0.76
33:Z:304:PRO:O	33:Z:308:LYS:N	2.19	0.76
33:Z:359:LYS:HA	33:Z:362:LEU:HB2	1.68	0.76
33:Z:564:ARG:HH12	33:Z:894:MET:HE3	1.51	0.76
33:Z:917:ASN:OD1	33:Z:918:ASP:N	2.19	0.76
6:k:3:ILE:HB	6:k:18:SER:HB3	1.67	0.76
20:M:411:LYS:NZ	20:M:414:ASP:OD1	2.19	0.76
25:R:37:LYS:HG2	25:R:42:GLN:HE22	1.50	0.76
25:R:394:ASP:OD2	26:S:450:ASN:O	2.04	0.76
29:V:261:LEU:HD22	29:V:280:LEU:HA	1.68	0.76
30:W:66:THR:CG2	30:W:71:LYS:CG	2.64	0.76
31:X:38:ASN:HA	31:X:47:ASP:H	1.51	0.76
33:Z:112:LYS:HZ3	33:Z:202:ARG:HG3	1.51	0.76
6:6:3:ILE:HB	6:6:18:SER:HB3	1.67	0.75
6:6:169:GLU:O	6:k:177:LYS:NZ	2.18	0.75
6:6:177:LYS:NZ	6:k:169:GLU:O	2.18	0.75
12:E:211:LYS:O	12:E:216:ASN:ND2	2.18	0.75
14:G:51:GLU:OE2	14:G:204:HIS:ND1	2.18	0.75
15:H:278:GLU:N	16:I:292:ARG:HH22	1.84	0.75
19:L:401:PHE:O	19:L:405:ASP:N	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:147:GLY:N	20:M:157:ASP:O	2.19	0.75
21:N:103:SER:HA	21:N:106:ILE:HD12	1.66	0.75
22:O:133:ILE:O	22:O:136:THR:OG1	2.04	0.75
23:P:392:LYS:HE3	24:Q:354:PHE:CG	2.21	0.75
24:Q:302:VAL:CB	24:Q:335:PHE:HZ	1.98	0.75
24:Q:314:PHE:CE2	24:Q:339:TYR:CB	2.68	0.75
24:Q:368:LEU:HG	24:Q:369:ASP:N	1.99	0.75
28:U:8:VAL:HG22	28:U:46:ILE:HB	1.69	0.75
30:W:151:THR:N	30:W:155:ASP:OD2	2.18	0.75
33:Z:364:ASN:HB3	33:Z:954:PRO:CD	2.16	0.75
10:c:233:GLN:O	10:c:237:ASP:N	2.19	0.75
11:d:162:GLN:NE2	11:d:163:THR:O	2.14	0.75
13:F:11:VAL:C	14:G:130:ARG:HG3	2.10	0.75
13:F:68:GLU:O	13:F:222:PHE:N	2.14	0.75
17:J:128:ASN:C	17:J:129:LYS:HE3	2.11	0.75
19:L:405:ASP:O	19:L:407:ARG:NH1	2.19	0.75
22:O:280:LEU:HA	22:O:283:HIS:HB2	1.68	0.75
23:P:425:HIS:CD2	28:U:232:VAL:HB	2.21	0.75
24:Q:415:LEU:HD23	29:V:262:THR:HG23	1.66	0.75
27:T:157:TYR:OH	27:T:188:GLU:OE1	2.04	0.75
33:Z:475:GLN:NE2	33:Z:504:GLU:OE1	2.19	0.75
33:Z:506:LEU:O	33:Z:510:LEU:N	2.14	0.75
11:d:127:ARG:NH1	11:d:128:PRO:O	2.18	0.75
1:1:179:TYR:HD1	1:1:188:LYS:HA	1.51	0.75
2:2:42:THR:HG22	2:2:74:ARG:CZ	2.16	0.75
11:D:180:ASP:OD2	11:D:183:GLU:N	2.18	0.75
16:I:199:LYS:HE2	16:I:261:LYS:HZ1	1.52	0.75
17:J:87:LYS:HB2	17:J:93:LYS:HG2	1.69	0.75
20:M:220:MET:HB2	20:M:326:ALA:HA	1.67	0.75
21:N:495:PRO:O	21:N:499:HIS:ND1	2.18	0.75
22:O:15:ARG:N	22:O:16:MET:O	2.19	0.75
22:O:102:LEU:HD21	22:O:128:LEU:CD1	2.16	0.75
22:O:151:ASP:O	22:O:155:LYS:N	2.18	0.75
24:Q:302:VAL:CB	24:Q:335:PHE:CZ	2.69	0.75
27:T:85:LEU:HD21	27:T:102:LYS:HG2	1.68	0.75
30:W:53:SER:N	30:W:60:ARG:O	2.20	0.75
33:Z:277:GLU:HG3	33:Z:277:GLU:O	1.86	0.75
14:g:12:ASN:HB3	14:g:127:ASN:HA	1.67	0.75
7:l:82:ARG:NH1	7:l:200:ASP:OD2	2.18	0.75
4:4:109:LEU:HD12	4:4:142:ILE:HD11	1.66	0.75
16:I:175:LEU:HB3	16:I:184:VAL:HB	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:127:GLU:CB	17:J:129:LYS:NZ	2.45	0.75
19:L:231:LEU:O	19:L:235:VAL:N	2.13	0.75
22:O:1:MET:CB	22:O:37:LEU:HA	2.16	0.75
26:S:139:HIS:O	26:S:143:GLN:N	2.19	0.75
28:U:104:LEU:HD13	28:U:152:LYS:NZ	2.02	0.75
33:Z:567:ALA:HB1	33:Z:595:MET:CA	2.09	0.75
33:Z:584:VAL:CG1	33:Z:603:VAL:CG1	2.63	0.75
5:j:160:PRO:O	5:j:164:PHE:N	2.18	0.75
8:A:200:GLU:OE1	8:A:200:GLU:N	2.15	0.75
16:I:275:VAL:HG22	16:I:309:ASP:HB3	1.68	0.75
18:K:162:GLY:O	18:K:236:ARG:N	2.19	0.75
19:L:313:ASP:OD2	19:L:339:ARG:NH2	2.16	0.75
24:Q:50:ARG:O	24:Q:54:GLN:N	2.19	0.75
25:R:200:LYS:HD2	25:R:202:GLY:CA	2.13	0.75
25:R:289:ILE:HG13	25:R:290:SER:H	1.50	0.75
26:S:338:MET:HG2	26:S:341:SER:C	2.12	0.75
30:W:67:ALA:C	30:W:68:GLU:HG3	2.12	0.75
33:Z:793:PHE:HB2	33:Z:829:GLN:HB2	1.69	0.75
4:4:59:ASN:OD1	4:4:217:ARG:NH2	2.19	0.75
6:6:141:PHE:HB3	7:l:242:ARG:HH21	1.52	0.75
12:E:80:GLY:HA3	12:E:140:VAL:HA	1.66	0.75
12:E:146:GLY:HA2	12:E:222:ILE:HD13	1.68	0.75
19:L:246:SER:HB3	19:L:280:MET:HA	1.66	0.75
21:N:33:ASP:O	26:S:215:MET:HG2	1.87	0.75
25:R:65:TYR:O	25:R:69:GLU:N	2.19	0.75
25:R:198:ILE:HD13	25:R:200:LYS:HG2	1.67	0.75
25:R:334:ARG:O	25:R:337:VAL:HG12	1.87	0.75
8:a:61:ASP:HB3	8:a:64:LEU:HG	1.69	0.75
5:j:84:PRO:O	5:j:88:THR:N	2.19	0.75
10:C:187:ASP:HA	10:C:190:ILE:HD12	1.68	0.75
14:G:234:ASP:O	14:G:238:GLU:N	2.17	0.75
17:J:333:ARG:HH12	25:R:205:GLU:HB3	1.51	0.75
18:K:288:SER:OG	19:L:256:ILE:O	2.03	0.75
19:L:225:GLY:C	19:L:227:GLY:H	1.95	0.75
23:P:342:GLN:HE21	23:P:346:ILE:HD11	1.50	0.75
24:Q:355:GLU:OE2	24:Q:399:VAL:HG23	1.87	0.75
25:R:259:PHE:O	25:R:333:MET:CE	2.34	0.75
29:V:107:TRP:O	29:V:139:VAL:N	2.18	0.75
33:Z:407:VAL:O	33:Z:410:THR:OG1	2.03	0.75
8:a:46:ARG:HH21	8:a:167:LYS:HA	1.51	0.75
13:f:140:SER:OG	13:f:143:HIS:NE2	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:84:PRO:O	5:5:88:THR:N	2.19	0.75
9:B:35:LEU:HA	9:B:163:ALA:HA	1.69	0.75
18:K:238:ASN:CB	18:K:241:GLU:HG3	2.15	0.75
21:N:460:ILE:O	21:N:464:GLU:N	2.17	0.75
24:Q:13:ARG:O	24:Q:17:GLU:N	2.15	0.75
24:Q:27:TYR:CE1	24:Q:57:SER:HB2	2.22	0.75
25:R:134:TRP:HE3	25:R:153:THR:HG23	1.51	0.75
27:T:251:HIS:NE2	27:T:253:GLU:CD	2.44	0.75
33:Z:770:GLU:O	33:Z:774:ARG:N	2.14	0.75
12:e:146:GLY:HA2	12:e:222:ILE:HD13	1.68	0.75
16:I:214:LEU:HD21	16:I:388:ILE:HD11	1.69	0.75
16:I:244:LYS:NZ	16:I:340:LEU:HG	2.02	0.75
18:K:98:GLN:O	18:K:111:SER:N	2.17	0.75
18:K:343:LEU:HD12	18:K:343:LEU:N	2.02	0.75
19:L:253:ASP:O	20:M:256:ILE:HB	1.85	0.75
19:L:357:ARG:O	19:L:361:PHE:N	2.15	0.75
23:P:147:LYS:HG2	23:P:152:LYS:HD2	1.67	0.75
23:P:393:VAL:CA	24:Q:352:GLU:O	2.34	0.75
25:R:309:LEU:HA	25:R:312:TYR:HB3	1.69	0.75
26:S:462:ASP:HA	26:S:465:ILE:HB	1.68	0.75
1:1:21:PHE:CZ	2:2:137:ARG:HG3	2.22	0.74
1:1:29:GLY:HA3	1:1:61:LYS:HZ2	1.50	0.74
6:6:118:GLN:NE2	6:6:132:ALA:O	2.20	0.74
2:9:42:THR:HG22	2:9:74:ARG:CZ	2.16	0.74
8:A:61:ASP:HB3	8:A:64:LEU:HG	1.69	0.74
8:A:72:ILE:N	8:A:224:GLU:OE2	2.16	0.74
17:J:163:VAL:HG23	17:J:312:ARG:HB3	1.69	0.74
18:K:243:VAL:CG2	19:L:303:ARG:HD2	2.15	0.74
19:L:369:LYS:NZ	19:L:408:ASP:OD2	2.18	0.74
22:O:356:ARG:HA	22:O:356:ARG:NH1	2.02	0.74
23:P:139:VAL:HA	23:P:142:ASP:HB2	1.68	0.74
23:P:294:GLU:O	23:P:298:SER:N	2.11	0.74
23:P:420:ASP:O	23:P:424:GLU:N	2.19	0.74
30:W:132:LEU:O	30:W:136:ASN:N	2.20	0.74
33:Z:312:TYR:CE1	33:Z:349:THR:HA	2.22	0.74
9:b:158:PRO:HB2	10:c:58:GLU:HB3	1.68	0.74
4:i:228:LYS:NZ	5:j:152:SER:O	2.14	0.74
6:k:52:ASP:OD1	7:l:163:TYR:OH	2.03	0.74
8:A:46:ARG:HH21	8:A:167:LYS:HA	1.51	0.74
8:A:144:VAL:HG12	8:A:154:ILE:HA	1.67	0.74
15:H:403:ARG:H	15:H:406:LEU:HD12	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:211:ILE:HB	16:I:258:LEU:HB3	1.67	0.74
16:I:248:LEU:HA	16:I:375:ILE:HB	1.69	0.74
18:K:243:VAL:HG12	19:L:257:GLY:CA	2.14	0.74
22:O:16:MET:N	22:O:72:LYS:HE3	2.01	0.74
27:T:253:GLU:HG3	27:T:254:ASP:H	1.50	0.74
30:W:15:TYR:CE2	30:W:145:GLY:HA2	2.22	0.74
33:Z:451:ALA:O	33:Z:455:ILE:N	2.18	0.74
33:Z:783:VAL:HG12	33:Z:787:ASP:C	2.11	0.74
4:4:30:THR:N	4:4:158:SER:HG	1.84	0.74
1:8:179:TYR:HD1	1:8:188:LYS:HA	1.51	0.74
15:H:385:ARG:NH1	15:H:413:ASN:OD1	2.21	0.74
19:L:225:GLY:H	19:L:229:THR:H	1.34	0.74
22:O:99:LEU:HA	22:O:132:GLU:OE1	1.88	0.74
23:P:378:THR:O	23:P:382:ASP:N	2.18	0.74
23:P:420:ASP:HA	23:P:423:LEU:HB2	1.70	0.74
23:P:440:HIS:HD2	28:U:213:LYS:NZ	1.85	0.74
25:R:371:PHE:CA	25:R:377:LEU:HD11	2.16	0.74
26:S:330:LEU:O	26:S:334:HIS:N	2.20	0.74
29:V:114:PHE:HB3	29:V:116:CYS:SG	2.27	0.74
33:Z:445:PRO:O	33:Z:449:ALA:N	2.20	0.74
9:b:185:LEU:O	9:b:189:ILE:N	2.17	0.74
10:c:168:ASN:ND2	10:c:200:THR:O	2.20	0.74
11:d:36:VAL:HG12	11:d:161:ALA:HB1	1.66	0.74
6:k:118:GLN:NE2	6:k:132:ALA:O	2.20	0.74
16:I:292:ARG:O	16:I:296:LYS:N	2.17	0.74
17:J:273:LEU:HD22	17:J:309:ARG:HD3	1.70	0.74
19:L:290:ARG:CZ	19:L:302:GLN:HB2	2.17	0.74
21:N:468:GLU:O	21:N:472:ASN:N	2.17	0.74
22:O:7:ILE:C	22:O:11:LEU:CB	2.58	0.74
22:O:266:PHE:O	22:O:269:LEU:N	2.21	0.74
23:P:268:LEU:O	23:P:271:SER:OG	2.06	0.74
23:P:429:ILE:HG22	23:P:433:ILE:HD11	1.69	0.74
24:Q:401:GLU:HB2	25:R:392:ARG:HH12	0.92	0.74
25:R:64:LYS:O	25:R:81:HIS:NE2	2.20	0.74
25:R:200:LYS:CD	25:R:203:ASP:N	2.49	0.74
25:R:279:LEU:HD12	25:R:282:THR:HB	1.69	0.74
26:S:201:ILE:C	27:T:46:ILE:HD11	2.12	0.74
33:Z:307:HIS:ND1	33:Z:310:LEU:HD23	2.03	0.74
13:f:123:TYR:HB2	14:g:128:SER:O	1.88	0.74
4:i:59:ASN:OD1	4:i:217:ARG:NH2	2.19	0.74
5:5:160:PRO:O	5:5:164:PHE:N	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:206:SER:OG	7:7:243:ASP:OD2	2.04	0.74
8:A:48:LYS:HD3	8:A:197:GLU:HG3	1.70	0.74
18:K:129:GLU:HA	29:V:274:GLN:H	1.52	0.74
19:L:260:ALA:O	19:L:264:ARG:N	2.15	0.74
19:L:358:LEU:HB2	19:L:380:VAL:HG11	1.68	0.74
21:N:151:LYS:HA	21:N:154:LEU:HB2	1.69	0.74
21:N:176:GLN:HA	21:N:176:GLN:NE2	2.00	0.74
23:P:325:ASP:H	23:P:337:HIS:CE1	2.04	0.74
24:Q:232:TYR:O	24:Q:236:PHE:N	2.18	0.74
24:Q:294:ARG:N	24:Q:324:GLU:OE1	2.20	0.74
24:Q:382:LEU:HD11	24:Q:402:THR:HG23	0.77	0.74
25:R:394:ASP:OD1	26:S:451:ILE:HG22	1.86	0.74
28:U:299:LYS:O	28:U:303:GLU:N	2.17	0.74
33:Z:539:ASN:HB3	33:Z:542:ILE:HG22	1.69	0.74
10:c:141:ASP:OD1	10:c:145:GLY:N	2.20	0.74
11:d:111:ARG:NH2	7:l:145:GLU:OE2	2.19	0.74
7:7:82:ARG:HG3	7:7:185:PRO:HB2	1.70	0.74
8:A:193:HIS:ND1	8:A:194:ILE:O	2.18	0.74
17:J:34:ILE:HG21	18:K:58:TYR:HB3	1.70	0.74
18:K:212:TYR:HB3	18:K:339:GLU:HG2	1.69	0.74
21:N:463:TYR:HA	21:N:485:MET:HG2	1.69	0.74
24:Q:190:ASN:HB3	24:Q:193:LYS:HD2	1.69	0.74
24:Q:337:ALA:O	24:Q:340:ASP:HB2	1.87	0.74
25:R:400:TYR:OH	28:U:274:MET:C	2.30	0.74
27:T:57:ILE:HG22	27:T:61:ILE:HG13	1.70	0.74
30:W:7:VAL:HA	30:W:50:GLY:H	1.53	0.74
9:b:33:THR:OG1	9:b:167:GLY:N	2.20	0.74
11:d:115:GLY:O	11:d:119:ARG:N	2.17	0.74
14:g:51:GLU:OE2	14:g:204:HIS:ND1	2.18	0.74
7:7:214:VAL:HG23	6:k:142:SER:HB2	1.68	0.74
2:9:102:ASP:O	2:9:106:GLU:N	2.14	0.74
14:G:126:TYR:O	14:G:129:VAL:CG2	2.36	0.74
15:H:382:LEU:HD23	15:H:385:ARG:HH22	1.52	0.74
16:I:429:LEU:HD22	16:I:432:ARG:HH21	1.51	0.74
19:L:103:GLN:O	20:M:128:PHE:N	2.21	0.74
19:L:408:ASP:OD1	19:L:409:HIS:ND1	2.21	0.74
21:N:770:LYS:HD3	21:N:870:ASN:HD21	1.51	0.74
25:R:229:LYS:O	25:R:233:ASP:N	2.21	0.74
26:S:440:ASP:HB3	26:S:442:PHE:CD2	2.23	0.74
27:T:159:LYS:O	27:T:163:LEU:N	2.17	0.74
27:T:164:LEU:O	27:T:170:ASN:ND2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:493:LEU:HA	33:Z:496:ALA:HB3	1.69	0.74
33:Z:847:ILE:HA	33:Z:850:LEU:HD12	1.68	0.74
13:f:132:LEU:HB2	13:f:147:PHE:HB3	1.70	0.74
13:f:198:SER:HA	13:f:201:LEU:HD12	1.70	0.74
3:3:38:ARG:NH1	3:3:186:GLY:O	2.20	0.74
3:3:166:SER:N	3:3:169:GLU:OE1	2.18	0.74
18:K:215:PRO:HA	18:K:219:LYS:HB3	1.68	0.74
21:N:315:ASN:O	21:N:319:SER:N	2.19	0.74
24:Q:140:LYS:O	24:Q:144:LEU:N	2.12	0.74
25:R:265:ASP:O	25:R:269:LYS:N	2.21	0.74
33:Z:799:PHE:HA	33:Z:802:ASP:HB2	1.69	0.74
33:Z:861:THR:HG21	33:Z:962:ARG:HH11	1.49	0.74
7:l:206:SER:OG	7:l:243:ASP:OD2	2.04	0.74
1:1:79:ASP:OD1	2:2:137:ARG:NH2	2.21	0.74
15:H:275:ILE:HG22	15:H:277:SER:H	1.53	0.74
15:H:337:ILE:O	15:H:370:ARG:NH1	2.20	0.74
18:K:167:PRO:HD2	18:K:228:ASN:HA	1.70	0.74
21:N:211:PHE:O	21:N:215:MET:N	2.17	0.74
22:O:139:LEU:O	22:O:141:ASN:N	2.20	0.74
24:Q:145:HIS:O	24:Q:150:GLN:N	2.19	0.74
25:R:333:MET:HE1	25:R:336:LYS:HG2	1.70	0.74
25:R:382:ASP:CG	26:S:402:ILE:HG23	2.13	0.74
26:S:235:ASN:ND2	26:S:259:TYR:OH	2.21	0.74
26:S:471:LEU:O	26:S:475:TYR:N	2.20	0.74
29:V:154:ASP:OD1	29:V:155:ALA:N	2.21	0.74
33:Z:605:SER:CB	33:Z:878:LEU:CD1	2.59	0.74
9:b:59:GLU:N	9:b:59:GLU:OE1	2.20	0.74
10:C:168:ASN:ND2	10:C:200:THR:O	2.20	0.74
19:L:74:LEU:HD13	20:M:15:ASP:CG	2.12	0.74
19:L:175:GLN:HE21	19:L:240:GLY:HA2	1.53	0.74
22:O:140:LYS:HZ2	22:O:142:ASP:HA	1.50	0.74
24:Q:32:ASP:HA	24:Q:44:ALA:HB3	1.70	0.74
24:Q:314:PHE:HB2	24:Q:342:LEU:HD11	1.69	0.74
24:Q:387:TYR:OH	24:Q:399:VAL:HA	1.88	0.74
26:S:435:LYS:O	26:S:444:GLU:N	2.19	0.74
33:Z:112:LYS:HD2	33:Z:140:LEU:HB3	1.70	0.74
11:d:195:THR:O	11:d:198:SER:OG	2.06	0.74
14:g:220:SER:HB3	14:g:224:THR:H	1.53	0.74
1:1:225:ILE:HB	1:1:232:ARG:HB3	1.68	0.73
2:2:42:THR:HG22	2:2:74:ARG:HH21	1.53	0.73
12:E:187:TRP:HA	12:E:191:LEU:HD11	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:281:ARG:HG2	18:K:285:GLN:HB2	1.69	0.73
23:P:45:LYS:HD3	23:P:52:LEU:HB2	1.70	0.73
23:P:305:THR:O	23:P:310:ARG:NH2	2.21	0.73
24:Q:120:LYS:HB3	24:Q:124:PHE:CE2	2.23	0.73
24:Q:271:MET:HG2	24:Q:338:LEU:HD22	1.69	0.73
24:Q:311:LEU:HD21	24:Q:368:LEU:HD13	1.69	0.73
25:R:200:LYS:CD	25:R:202:GLY:N	2.50	0.73
29:V:238:LEU:H	29:V:241:THR:HG1	1.32	0.73
33:Z:388:GLY:HA3	33:Z:421:SER:HB2	1.70	0.73
33:Z:513:ALA:O	33:Z:516:THR:OG1	2.06	0.73
1:1:68:ASN:ND2	1:1:227:THR:O	2.16	0.73
1:1:169:LEU:O	1:1:173:VAL:N	2.21	0.73
7:7:79:LEU:HA	7:7:175:MET:HE1	1.70	0.73
13:F:67:ASP:OD1	13:F:68:GLU:N	2.20	0.73
16:I:288:PRO:HB3	16:I:335:GLU:HG2	1.70	0.73
17:J:161:LYS:HG3	17:J:165:GLU:HB2	1.70	0.73
18:K:362:LEU:HA	18:K:402:ILE:H	1.53	0.73
23:P:48:GLN:HG2	23:P:86:HIS:HB2	1.68	0.73
25:R:78:ASP:N	25:R:82:ASP:O	2.20	0.73
25:R:172:LEU:HB3	25:R:176:ARG:HH12	1.52	0.73
26:S:132:ALA:O	26:S:136:CYS:N	2.21	0.73
26:S:415:SER:OG	26:S:422:MET:SD	2.46	0.73
26:S:439:GLU:HB3	27:T:201:PRO:HD3	1.68	0.73
33:Z:271:ILE:O	33:Z:272:TYR:C	2.31	0.73
9:b:35:LEU:HA	9:b:163:ALA:HA	1.69	0.73
13:f:67:ASP:OD1	13:f:68:GLU:N	2.20	0.73
14:g:22:PHE:O	14:g:26:TYR:N	2.19	0.73
9:B:59:GLU:N	9:B:59:GLU:OE1	2.20	0.73
11:D:122:GLN:HB3	12:E:136:ARG:CZ	2.17	0.73
13:F:13:PHE:HB3	13:F:17:GLY:HA2	1.71	0.73
14:G:220:SER:HB3	14:G:224:THR:H	1.53	0.73
15:H:224:VAL:HG21	15:H:246:ILE:HD12	1.68	0.73
15:H:258:LEU:HD23	15:H:261:ARG:HD2	1.68	0.73
18:K:96:ILE:HD12	19:L:126:ARG:HB3	1.69	0.73
19:L:357:ARG:NE	19:L:383:SER:O	2.21	0.73
22:O:357:ILE:O	22:O:358:ILE:CG2	2.34	0.73
25:R:126:GLY:HA3	25:R:129:GLU:HB2	1.69	0.73
26:S:158:PHE:O	26:S:162:VAL:N	2.20	0.73
33:Z:564:ARG:HG2	33:Z:594:PRO:C	2.13	0.73
33:Z:579:GLU:C	33:Z:583:ASP:HB2	2.08	0.73
33:Z:821:GLY:O	33:Z:862:MET:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:236:ARG:CZ	5:j:161:GLU:HB2	2.18	0.73
7:l:82:ARG:HG3	7:l:185:PRO:HB2	1.70	0.73
1:8:225:ILE:HB	1:8:232:ARG:HB3	1.68	0.73
13:F:198:SER:HA	13:F:201:LEU:HD12	1.70	0.73
15:H:96:PRO:HA	15:H:191:ILE:C	2.13	0.73
18:K:243:VAL:O	19:L:257:GLY:HA3	1.87	0.73
21:N:683:LEU:O	21:N:687:THR:N	2.18	0.73
22:O:58:ARG:O	22:O:62:TYR:N	2.12	0.73
23:P:168:TYR:HB2	23:P:176:LYS:HD2	1.69	0.73
24:Q:409:TYR:O	24:Q:413:LEU:N	2.14	0.73
27:T:265:ASP:O	27:T:269:SER:N	2.22	0.73
28:U:122:ILE:N	28:U:135:ASP:O	2.20	0.73
30:W:19:GLY:HA2	30:W:25:ARG:H	1.52	0.73
33:Z:198:GLU:HA	33:Z:201:LEU:HB2	1.69	0.73
33:Z:747:ALA:HB1	33:Z:761:PHE:CZ	2.18	0.73
13:f:6:TYR:OH	14:g:9:ASP:OD2	2.06	0.73
7:l:79:LEU:HA	7:l:175:MET:HE1	1.70	0.73
6:6:65:GLN:HB2	11:D:94:GLN:HE22	1.52	0.73
21:N:642:ASP:O	21:N:645:THR:OG1	2.05	0.73
22:O:310:PHE:HZ	22:O:341:ILE:HG23	1.53	0.73
24:Q:30:LEU:HD22	24:Q:50:ARG:NH2	2.04	0.73
25:R:58:GLU:O	25:R:144:ILE:HA	1.87	0.73
25:R:147:LYS:NZ	25:R:186:TYR:CE2	2.49	0.73
25:R:259:PHE:CD1	25:R:333:MET:CG	2.46	0.73
28:U:141:GLU:CA	28:U:153:THR:H	2.01	0.73
31:X:68:LEU:HD21	31:X:73:THR:HG21	1.69	0.73
33:Z:381:LEU:HA	33:Z:410:THR:HG22	1.70	0.73
12:e:187:TRP:HA	12:e:191:LEU:HD11	1.70	0.73
4:4:50:THR:HA	4:4:56:ALA:H	1.54	0.73
11:D:189:GLU:O	11:D:193:LYS:N	2.17	0.73
20:M:198:VAL:HG22	20:M:239:THR:HG22	1.71	0.73
23:P:107:SER:C	23:P:108:LYS:HG3	2.14	0.73
23:P:245:TYR:CZ	23:P:261:LEU:HB2	2.23	0.73
24:Q:332:ARG:O	24:Q:336:ASN:ND2	2.21	0.73
25:R:259:PHE:HE1	25:R:333:MET:N	1.87	0.73
25:R:414:LEU:HA	26:S:471:LEU:HD11	1.70	0.73
26:S:411:LEU:O	26:S:415:SER:N	2.21	0.73
28:U:141:GLU:H	28:U:153:THR:H	1.33	0.73
33:Z:289:GLY:HA3	33:Z:609:THR:CB	2.19	0.73
8:a:161:GLY:O	9:b:83:ARG:NH1	2.20	0.73
13:f:40:SER:OG	13:f:43:HIS:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:30:THR:N	4:i:158:SER:HG	1.87	0.73
2:2:42:THR:CG2	2:2:74:ARG:HH21	2.02	0.73
2:9:42:THR:HG21	2:9:58:ASP:OD1	1.84	0.73
10:C:141:ASP:OD1	10:C:145:GLY:N	2.20	0.73
11:D:18:PHE:O	11:D:22:TYR:N	2.20	0.73
12:E:41:ALA:HA	12:E:46:VAL:HG22	1.71	0.73
16:I:279:LEU:HD23	16:I:279:LEU:N	2.03	0.73
19:L:166:LEU:HA	19:L:170:MET:HB2	1.71	0.73
20:M:295:LYS:HD3	20:M:302:GLN:HE22	1.53	0.73
21:N:585:ARG:HH21	21:N:616:HIS:HA	1.53	0.73
22:O:233:LEU:HD12	22:O:236:HIS:CD2	2.23	0.73
23:P:57:GLU:HA	23:P:60:ALA:HB3	1.70	0.73
23:P:67:ALA:HB1	23:P:72:TRP:CH2	2.24	0.73
24:Q:275:ILE:HD11	24:Q:306:TYR:HD2	1.54	0.73
25:R:50:VAL:HA	25:R:53:LYS:HB2	1.71	0.73
25:R:200:LYS:HD2	25:R:203:ASP:N	2.03	0.73
25:R:413:LYS:HA	25:R:416:LYS:HE2	1.71	0.73
33:Z:400:ILE:HG21	33:Z:422:ILE:HG12	1.69	0.73
33:Z:598:ALA:O	33:Z:745:LEU:CD1	2.36	0.73
3:h:20:THR:O	3:h:21:SER:OG	2.06	0.73
3:3:172:ASP:HB3	3:3:176:HIS:HE1	1.54	0.73
6:6:5:LEU:HB2	6:6:16:ALA:HB3	1.71	0.73
9:B:160:LYS:HD2	10:C:56:LEU:HA	1.71	0.73
13:F:132:LEU:HB2	13:F:147:PHE:HB3	1.70	0.73
15:H:156:VAL:HG11	20:M:163:PHE:CG	2.24	0.73
17:J:349:LYS:HB3	17:J:386:VAL:HG11	1.70	0.73
25:R:61:PRO:HD3	25:R:102:LEU:HD11	1.70	0.73
25:R:338:TYR:O	25:R:343:GLU:CA	2.37	0.73
26:S:26:ALA:O	26:S:30:GLN:N	2.14	0.73
31:X:127:GLY:O	31:X:131:ASN:N	2.21	0.73
33:Z:263:ALA:O	33:Z:267:THR:N	2.21	0.73
33:Z:851:ALA:O	33:Z:855:LEU:N	2.18	0.73
11:d:181:ARG:NH2	12:e:57:PRO:O	2.21	0.73
4:i:50:THR:HA	4:i:56:ALA:H	1.54	0.73
7:7:76:THR:O	7:7:206:SER:N	2.22	0.73
1:8:169:LEU:O	1:8:173:VAL:N	2.21	0.73
9:B:41:ASN:ND2	9:B:184:GLU:OE2	2.22	0.73
10:C:141:ASP:OD2	10:C:147:GLN:NE2	2.22	0.73
13:F:107:ARG:HA	13:F:110:HIS:CD2	2.23	0.73
16:I:279:LEU:O	16:I:280:ILE:HG22	1.88	0.73
16:I:414:LEU:HB3	16:I:418:ASP:HB2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:167:PRO:HG3	17:J:174:PHE:HE2	1.53	0.73
21:N:420:THR:O	21:N:424:LYS:N	2.21	0.73
23:P:307:GLU:HB2	23:P:310:ARG:HG3	1.70	0.73
23:P:365:LEU:O	23:P:369:LEU:N	2.21	0.73
24:Q:192:ALA:O	24:Q:196:ALA:N	2.16	0.73
24:Q:201:ALA:O	24:Q:205:ALA:N	2.18	0.73
24:Q:329:GLU:O	24:Q:333:SER:N	2.21	0.73
25:R:146:ASP:CG	25:R:148:ASP:OD2	2.32	0.73
25:R:333:MET:CE	25:R:336:LYS:HG2	2.19	0.73
25:R:335:ARG:CZ	25:R:376:GLN:OE1	2.37	0.73
25:R:369:GLY:CA	25:R:372:ILE:CD1	2.66	0.73
25:R:382:ASP:HB3	25:R:387:ILE:HG22	1.71	0.73
30:W:158:ILE:O	30:W:169:SER:OG	2.07	0.73
12:e:36:THR:OG1	12:e:175:GLY:N	2.17	0.73
12:e:41:ALA:HA	12:e:46:VAL:HG22	1.71	0.73
4:4:37:PHE:N	4:4:40:GLY:O	2.21	0.73
5:5:8:ASN:OD1	5:5:57:ALA:N	2.18	0.73
9:B:158:PRO:HB2	10:C:58:GLU:HB3	1.71	0.73
10:C:233:GLN:O	10:C:237:ASP:N	2.19	0.73
12:E:36:THR:OG1	12:E:175:GLY:N	2.17	0.73
17:J:392:LYS:HA	17:J:395:GLU:HB3	1.71	0.73
18:K:342:SER:N	18:K:344:ARG:HH22	1.87	0.73
26:S:385:SER:CB	26:S:425:ARG:HH21	2.01	0.73
26:S:420:GLU:HG2	26:S:438:HIS:CE1	2.24	0.73
28:U:141:GLU:H	28:U:153:THR:N	1.85	0.73
33:Z:568:LEU:HD23	33:Z:599:ILE:CD1	2.19	0.73
33:Z:584:VAL:HG13	33:Z:585:LEU:N	2.03	0.73
11:d:56:ASP:OD2	11:d:58:ARG:NH2	2.17	0.73
6:k:172:MET:HE2	6:k:174:MET:HB2	1.69	0.73
5:5:44:PHE:O	5:5:51:LEU:N	2.16	0.72
6:6:172:MET:HE2	6:6:174:MET:HB2	1.69	0.72
7:7:94:ARG:NH1	7:7:244:ALA:O	2.22	0.72
8:A:39:ASN:O	8:A:58:LYS:NZ	2.19	0.72
10:C:193:ALA:O	10:C:197:LEU:N	2.17	0.72
14:G:151:LEU:HD13	14:G:157:TYR:HD2	1.54	0.72
15:H:401:GLY:O	15:H:403:ARG:NH1	2.22	0.72
16:I:213:GLY:HA3	16:I:387:LYS:HE2	1.71	0.72
19:L:187:THR:HA	19:L:190:ILE:HB	1.70	0.72
19:L:251:ILE:O	19:L:252:VAL:HG23	1.89	0.72
21:N:759:ILE:HG22	21:N:903:VAL:HG11	1.70	0.72
21:N:921:ARG:O	21:N:925:ASP:N	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:411:LEU:HA	23:P:414:GLU:HB2	1.69	0.72
26:S:390:THR:HG23	26:S:393:ARG:HH22	1.54	0.72
28:U:20:ASP:OD2	29:V:100:ARG:NH1	2.22	0.72
30:W:12:ASN:HD22	30:W:79:THR:HB	1.54	0.72
33:Z:298:PHE:O	33:Z:338:HIS:ND1	2.15	0.72
33:Z:391:ASN:OD1	33:Z:859:LYS:NZ	2.20	0.72
9:b:41:ASN:ND2	9:b:184:GLU:OE2	2.22	0.72
2:2:151:GLY:O	2:2:159:PHE:N	2.16	0.72
15:H:196:THR:HB	15:H:198:MET:HG2	1.70	0.72
23:P:263:HIS:O	23:P:267:PHE:N	2.20	0.72
23:P:396:PRO:CG	24:Q:356:CYS:O	2.26	0.72
25:R:263:ARG:HH22	25:R:267:LYS:CD	2.00	0.72
25:R:344:SER:N	25:R:345:TYR:HA	2.02	0.72
25:R:380:VAL:HA	26:S:398:THR:HG23	1.65	0.72
26:S:482:PRO:HG3	28:U:295:LYS:HE3	1.71	0.72
29:V:123:VAL:O	29:V:127:LYS:N	2.18	0.72
29:V:261:LEU:O	29:V:265:GLU:N	2.22	0.72
30:W:125:LEU:HD13	30:W:153:LEU:HB3	1.71	0.72
33:Z:761:PHE:HE2	33:Z:783:VAL:CB	2.01	0.72
10:c:12:ILE:HA	11:d:19:GLN:HE22	1.54	0.72
7:l:94:ARG:NH1	7:l:244:ALA:O	2.22	0.72
4:4:48:ARG:NH1	4:4:196:LEU:O	2.23	0.72
1:8:114:HIS:O	1:8:118:GLY:N	2.21	0.72
16:I:337:LEU:O	16:I:341:ASP:N	2.20	0.72
17:J:26:LYS:HE2	21:N:106:ILE:HG21	1.71	0.72
18:K:253:MET:HB3	18:K:257:VAL:HG23	1.71	0.72
19:L:258:GLU:HB3	19:L:261:ARG:NH2	2.03	0.72
21:N:308:ASN:CG	21:N:873:ARG:HH22	1.97	0.72
21:N:573:HIS:HA	21:N:576:VAL:HB	1.69	0.72
23:P:107:SER:O	23:P:108:LYS:HG3	1.88	0.72
24:Q:239:PHE:HB3	24:Q:265:MET:HB2	1.70	0.72
10:c:141:ASP:OD2	10:c:147:GLN:NE2	2.22	0.72
5:j:45:HIS:HA	5:j:50:PHE:HA	1.72	0.72
2:2:50:ASP:OD1	2:2:51:ASN:N	2.22	0.72
3:3:38:ARG:CZ	3:3:189:GLY:HA3	2.20	0.72
1:8:46:THR:HG22	1:8:59:GLU:H	1.55	0.72
2:9:58:ASP:OD1	2:9:74:ARG:NH2	2.22	0.72
13:F:90:GLN:O	13:F:94:TYR:N	2.17	0.72
15:H:95:HIS:HB3	15:H:190:ARG:O	1.89	0.72
20:M:312:LEU:HD21	20:M:323:VAL:HG21	1.71	0.72
21:N:775:CYS:HB2	21:N:882:ILE:HA	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:220:LEU:HD13	24:Q:261:VAL:HG22	1.71	0.72
25:R:331:ARG:HH21	32:Y:71:ASP:HB2	1.54	0.72
28:U:38:LEU:N	28:U:50:ASN:O	2.21	0.72
7:l:76:THR:O	7:l:206:SER:N	2.22	0.72
1:1:29:GLY:C	1:1:74:ASN:HD21	1.93	0.72
8:A:48:LYS:HA	8:A:193:HIS:CE1	2.25	0.72
14:G:22:PHE:O	14:G:26:TYR:N	2.19	0.72
18:K:342:SER:N	18:K:344:ARG:HH12	1.87	0.72
19:L:244:ILE:N	19:L:277:ILE:O	2.23	0.72
21:N:710:GLY:O	21:N:712:ASN:ND2	2.22	0.72
22:O:140:LYS:HA	22:O:181:PHE:CE2	2.20	0.72
23:P:341:LEU:HA	23:P:344:ARG:HB3	1.70	0.72
23:P:350:LEU:O	23:P:354:SER:N	2.20	0.72
23:P:432:LEU:O	23:P:436:GLU:N	2.22	0.72
25:R:99:TYR:O	25:R:103:CYS:N	2.18	0.72
26:S:338:MET:HA	26:S:339:GLN:C	2.15	0.72
33:Z:741:LEU:HB2	33:Z:771:HIS:NE2	2.04	0.72
8:a:19:PHE:N	9:b:20:GLN:OE1	2.22	0.72
8:a:48:LYS:HA	8:a:193:HIS:CE1	2.25	0.72
10:c:193:ALA:O	10:c:197:LEU:N	2.17	0.72
13:f:107:ARG:HA	13:f:110:HIS:CD2	2.23	0.72
14:g:151:LEU:HD13	14:g:157:TYR:HD2	1.53	0.72
6:k:5:LEU:HB2	6:k:16:ALA:HB3	1.71	0.72
2:2:42:THR:O	2:2:74:ARG:NH1	2.23	0.72
18:K:252:ARG:HG3	18:K:255:ARG:HH21	1.54	0.72
21:N:163:LEU:HA	21:N:166:ILE:HB	1.72	0.72
21:N:181:GLU:O	21:N:185:ILE:N	2.19	0.72
21:N:668:THR:O	21:N:783:SER:OG	2.07	0.72
22:O:56:PRO:HD2	22:O:86:LEU:HD21	1.71	0.72
23:P:395:ARG:HH12	24:Q:365:ILE:N	1.87	0.72
24:Q:124:PHE:HA	24:Q:127:ARG:HG2	1.70	0.72
26:S:389:LYS:HA	26:S:392:ILE:HD12	1.72	0.72
31:X:22:ARG:HH22	31:X:78:ILE:HD12	1.54	0.72
8:a:69:VAL:HA	14:g:158:TRP:CZ3	2.25	0.72
2:9:50:ASP:OD1	2:9:51:ASN:N	2.22	0.72
16:I:286:ASP:O	16:I:290:LEU:N	2.15	0.72
17:J:390:MET:HA	17:J:393:ASN:HB2	1.71	0.72
18:K:51:LEU:O	18:K:55:GLU:N	2.23	0.72
19:L:406:ASP:O	19:L:407:ARG:NH1	2.20	0.72
24:Q:269:LYS:O	24:Q:273:ASN:N	2.23	0.72
27:T:219:LYS:O	27:T:223:GLU:N	2.16	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:104:LYS:HG3	31:X:116:ALA:HB1	1.71	0.72
8:a:91:ARG:NH1	14:g:157:TYR:H	1.88	0.72
13:f:13:PHE:HB3	13:f:17:GLY:HA2	1.70	0.72
2:2:44:VAL:N	2:2:177:THR:OG1	2.18	0.72
6:6:62:ALA:O	11:D:94:GLN:NE2	2.23	0.72
11:D:96:HIS:ND1	11:D:102:ASP:O	2.22	0.72
16:I:136:LEU:N	16:I:172:CYS:O	2.21	0.72
16:I:159:ILE:H	16:I:165:LYS:HZ2	1.36	0.72
16:I:242:PRO:HG2	16:I:346:ARG:HA	1.70	0.72
19:L:251:ILE:C	19:L:252:VAL:HG23	2.14	0.72
20:M:166:ARG:HB3	20:M:168:LYS:HD2	1.71	0.72
20:M:275:PRO:HA	20:M:320:ARG:HA	1.72	0.72
22:O:179:PHE:HB3	22:O:188:PHE:HB2	1.71	0.72
25:R:148:ASP:O	25:R:151:GLU:N	2.22	0.72
33:Z:758:LEU:HD23	33:Z:758:LEU:C	2.15	0.72
33:Z:766:HIS:O	33:Z:773:ARG:NH2	2.23	0.72
8:a:48:LYS:HD3	8:a:197:GLU:HG3	1.70	0.72
13:f:168:ALA:O	13:f:172:LEU:N	2.16	0.72
2:9:42:THR:O	2:9:74:ARG:NH1	2.23	0.72
2:9:44:VAL:H	2:9:177:THR:HG1	1.38	0.72
9:B:33:THR:OG1	9:B:167:GLY:N	2.20	0.72
15:H:95:HIS:HE1	16:I:140:ILE:HG13	1.53	0.72
15:H:387:ASN:O	15:H:391:ILE:N	2.17	0.72
17:J:188:TYR:N	17:J:316:PHE:H	1.86	0.72
19:L:132:ARG:HG3	29:V:45:VAL:HG12	1.71	0.72
19:L:365:THR:HB	19:L:370:LYS:HZ2	1.55	0.72
21:N:61:ALA:HA	21:N:64:ILE:HB	1.72	0.72
21:N:778:LYS:HD3	21:N:860:LYS:HG2	1.71	0.72
22:O:4:ASN:O	22:O:8:ASP:N	2.23	0.72
22:O:263:PHE:O	22:O:267:ASP:N	2.21	0.72
23:P:125:VAL:O	23:P:136:ARG:HA	1.90	0.72
24:Q:392:GLN:CB	25:R:352:SER:OG	2.37	0.72
25:R:140:TYR:O	25:R:144:ILE:N	2.15	0.72
25:R:382:ASP:CG	26:S:402:ILE:CD1	2.62	0.72
26:S:252:ASP:O	26:S:255:SER:OG	2.05	0.72
33:Z:361:HIS:O	33:Z:364:ASN:HB2	1.90	0.72
13:f:2:PHE:O	13:f:6:TYR:N	2.18	0.72
1:1:114:HIS:O	1:1:118:GLY:N	2.21	0.72
1:1:132:GLY:HA2	1:1:226:VAL:HG11	1.72	0.72
3:3:122:ASP:OD2	3:3:125:ASN:N	2.22	0.72
1:8:237:GLU:OE2	2:9:194:ARG:NH1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:177:GLU:N	8:A:177:GLU:OE1	2.23	0.72
16:I:427:GLY:HA3	17:J:177:LEU:HD21	1.72	0.72
18:K:242:PHE:HE2	18:K:254:VAL:HG22	1.45	0.72
22:O:1:MET:N	22:O:35:GLU:C	2.40	0.72
24:Q:387:TYR:HB3	24:Q:397:LEU:CD2	2.20	0.72
28:U:285:ILE:HA	28:U:288:PHE:CD2	2.25	0.72
31:X:34:GLU:HB2	31:X:49:GLU:HB3	1.70	0.72
33:Z:601:VAL:CG1	33:Z:746:ILE:CD1	2.68	0.72
8:a:186:PHE:O	8:a:190:LYS:N	2.22	0.72
10:c:39:MET:HA	10:c:44:ILE:HG12	1.72	0.72
13:f:213:ILE:O	13:f:225:TYR:N	2.22	0.72
3:h:38:ARG:NH1	3:h:186:GLY:O	2.20	0.72
3:h:38:ARG:CZ	3:h:189:GLY:HA3	2.20	0.72
3:3:191:VAL:HG12	3:3:209:PRO:HD3	1.72	0.71
10:C:39:MET:HA	10:C:44:ILE:HG12	1.72	0.71
17:J:170:HIS:ND1	17:J:173:LEU:HG	2.06	0.71
21:N:18:ASP:HB3	21:N:55:PHE:HD1	1.55	0.71
21:N:75:TYR:O	21:N:79:VAL:N	2.19	0.71
21:N:761:ILE:HB	21:N:904:VAL:HA	1.70	0.71
22:O:1:MET:HA	22:O:35:GLU:O	1.89	0.71
22:O:130:ASP:O	22:O:134:ALA:CB	2.38	0.71
22:O:298:GLU:HB2	22:O:356:ARG:HG3	1.70	0.71
24:Q:423:VAL:HB	25:R:413:LYS:HZ1	1.52	0.71
25:R:264:THR:O	25:R:268:SER:N	2.21	0.71
26:S:234:ILE:O	26:S:238:LEU:N	2.17	0.71
27:T:39:LEU:HD22	27:T:55:LEU:HB2	1.71	0.71
10:c:16:GLU:HB3	11:d:29:ARG:HH22	1.55	0.71
2:2:204:GLN:CD	2:2:204:GLN:H	1.98	0.71
3:3:166:SER:HG	3:3:169:GLU:H	1.36	0.71
11:D:12:SER:OG	11:D:14:ASP:OD1	2.08	0.71
15:H:202:GLU:HG3	15:H:270:THR:HA	1.70	0.71
15:H:395:SER:C	16:I:238:MET:CB	2.63	0.71
16:I:281:GLN:C	16:I:283:TYR:H	1.99	0.71
18:K:126:LEU:HD22	18:K:130:LEU:HB3	1.72	0.71
18:K:188:VAL:HG13	18:K:313:LYS:HG3	1.70	0.71
18:K:303:MET:HE2	18:K:333:ARG:HB3	1.72	0.71
19:L:221:TYR:HE2	19:L:346:LYS:HG2	1.52	0.71
21:N:361:ASN:HB3	21:N:399:PHE:CD2	2.24	0.71
21:N:612:SER:O	21:N:618:ARG:NE	2.23	0.71
23:P:94:GLN:HA	23:P:97:ILE:HB	1.72	0.71
23:P:157:ALA:O	23:P:161:CYS:N	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:177:ILE:HB	23:P:203:ILE:HD11	1.71	0.71
23:P:390:TYR:CE2	23:P:405:PRO:HD3	2.25	0.71
24:Q:40:ALA:HA	24:Q:46:VAL:HA	1.72	0.71
26:S:302:HIS:O	26:S:306:SER:OG	2.06	0.71
30:W:131:THR:HA	30:W:134:LYS:HD2	1.72	0.71
33:Z:416:THR:OG1	33:Z:446:GLU:O	2.08	0.71
33:Z:430:LEU:HD12	33:Z:467:VAL:CB	2.20	0.71
13:f:117:GLN:O	13:f:120:THR:OG1	2.08	0.71
14:g:44:ASP:HB2	14:g:221:LEU:HB3	1.72	0.71
3:h:166:SER:HG	3:h:169:GLU:H	1.38	0.71
2:2:135:GLN:HB3	2:2:139:LYS:NZ	2.06	0.71
7:7:189:TYR:N	7:7:197:LEU:O	2.19	0.71
2:9:42:THR:HG22	2:9:74:ARG:HH21	1.53	0.71
10:C:97:ASN:O	10:C:101:THR:N	2.23	0.71
19:L:218:VAL:HG12	19:L:345:ARG:HB3	1.71	0.71
22:O:93:ASP:HB3	22:O:97:LYS:HE3	1.71	0.71
22:O:102:LEU:CD2	22:O:132:GLU:OE2	2.33	0.71
22:O:330:ARG:HG3	22:O:334:LEU:HG	1.72	0.71
23:P:144:VAL:O	23:P:148:LYS:N	2.19	0.71
23:P:178:GLN:O	23:P:181:LEU:HB3	1.90	0.71
23:P:217:LYS:O	23:P:221:TYR:N	2.17	0.71
24:Q:24:GLU:O	24:Q:28:LEU:N	2.23	0.71
24:Q:353:PRO:HB3	24:Q:357:VAL:HG11	1.71	0.71
24:Q:358:GLU:HG2	24:Q:360:SER:N	2.03	0.71
28:U:76:MET:HB2	29:V:94:MET:HE1	1.73	0.71
33:Z:404:ASP:HB3	33:Z:408:TYR:HE2	1.56	0.71
33:Z:445:PRO:HB3	33:Z:485:ILE:HG13	1.71	0.71
33:Z:965:LEU:HA	33:Z:978:GLU:HB3	1.72	0.71
11:d:96:HIS:ND1	11:d:102:ASP:O	2.22	0.71
3:h:20:THR:HA	3:h:36:ASP:OD2	1.89	0.71
7:l:189:TYR:N	7:l:197:LEU:O	2.19	0.71
18:K:74:HIS:HB2	21:N:576:VAL:HG22	1.72	0.71
18:K:363:ALA:HB2	18:K:401:VAL:HB	1.71	0.71
20:M:192:GLU:O	20:M:196:ALA:N	2.21	0.71
21:N:157:ALA:O	21:N:161:TYR:N	2.24	0.71
21:N:529:GLN:HA	21:N:558:ALA:HB1	1.72	0.71
22:O:140:LYS:CA	22:O:181:PHE:CE2	2.73	0.71
22:O:357:ILE:HG22	22:O:358:ILE:N	1.99	0.71
23:P:141:LYS:O	23:P:145:GLU:N	2.16	0.71
26:S:241:PHE:O	26:S:245:GLY:N	2.22	0.71
33:Z:324:GLU:HA	33:Z:327:GLN:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:602:LEU:CD2	33:Z:882:LEU:HD22	2.18	0.71
33:Z:968:ASP:OD1	33:Z:976:HIS:NE2	2.20	0.71
2:9:204:GLN:CD	2:9:204:GLN:H	1.99	0.71
11:D:118:GLN:NE2	12:E:84:ASP:OD1	2.23	0.71
15:H:208:TYR:CD2	15:H:211:VAL:HB	2.26	0.71
15:H:367:ARG:HH21	15:H:370:ARG:HD2	1.55	0.71
21:N:404:SER:O	21:N:408:LEU:N	2.23	0.71
21:N:512:ASN:OD1	21:N:515:ARG:NH1	2.23	0.71
21:N:525:ASN:HA	21:N:528:ARG:HD3	1.73	0.71
21:N:877:GLN:O	21:N:880:ARG:N	2.23	0.71
22:O:30:GLU:O	22:O:34:GLU:N	2.23	0.71
22:O:185:PHE:HB3	22:O:220:SER:HB2	1.71	0.71
24:Q:57:SER:O	24:Q:61:LEU:N	2.22	0.71
24:Q:401:GLU:CG	25:R:392:ARG:HH12	2.03	0.71
26:S:273:PHE:HA	26:S:276:LEU:HB3	1.72	0.71
10:c:100:LYS:HG3	5:j:65:GLU:HB3	1.72	0.71
11:d:141:ARG:HH21	7:l:182:LYS:HD2	1.54	0.71
3:h:172:ASP:HB3	3:h:176:HIS:HE1	1.54	0.71
3:h:191:VAL:HG12	3:h:209:PRO:HD3	1.73	0.71
4:i:48:ARG:NH1	4:i:196:LEU:O	2.23	0.71
5:j:11:ILE:HD13	5:j:142:ALA:HB3	1.72	0.71
8:A:89:ASP:HA	14:G:121:GLN:HE22	1.54	0.71
10:C:70:ASN:N	10:C:73:ILE:O	2.21	0.71
13:F:2:PHE:O	13:F:6:TYR:N	2.18	0.71
15:H:25:LYS:O	33:Z:287:ARG:NH2	2.24	0.71
18:K:255:ARG:CB	18:K:302:GLN:HE22	2.02	0.71
19:L:290:ARG:HD2	19:L:298:ASP:HB3	1.73	0.71
20:M:230:LEU:O	20:M:234:ALA:N	2.19	0.71
21:N:96:GLN:O	21:N:100:THR:N	2.20	0.71
21:N:113:ALA:O	21:N:117:TYR:N	2.21	0.71
21:N:314:LEU:HG	21:N:318:LYS:HE2	1.73	0.71
21:N:399:PHE:O	21:N:403:GLY:N	2.23	0.71
24:Q:363:SER:OG	24:Q:369:ASP:O	2.07	0.71
24:Q:387:TYR:HB3	24:Q:397:LEU:HD23	1.72	0.71
24:Q:390:LEU:CA	24:Q:397:LEU:HD12	2.21	0.71
27:T:85:LEU:HG	27:T:89:TYR:HB2	1.71	0.71
30:W:6:THR:HB	30:W:49:VAL:HG22	1.72	0.71
33:Z:487:SER:HA	33:Z:522:THR:HG21	1.72	0.71
33:Z:834:LEU:HA	33:Z:837:TYR:HB2	1.72	0.71
1:1:183:THR:HG21	1:1:187:VAL:HB	1.72	0.71
5:5:203:ARG:NH2	7:l:248:GLY:O	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:49:GLU:HB2	6:6:99:GLN:HB2	1.73	0.71
1:8:48:ASN:OD1	1:8:55:ASN:ND2	2.24	0.71
16:I:306:VAL:N	16:I:350:LYS:O	2.22	0.71
17:J:85:LEU:HD12	17:J:95:ILE:HD12	1.73	0.71
17:J:166:LEU:HD11	17:J:173:LEU:HD12	1.73	0.71
20:M:355:ASP:O	20:M:359:GLN:N	2.24	0.71
21:N:116:GLN:HB3	21:N:123:PHE:HB2	1.72	0.71
21:N:236:GLY:O	21:N:240:GLN:N	2.15	0.71
21:N:308:ASN:HD22	21:N:712:ASN:HD21	1.37	0.71
21:N:693:GLY:O	21:N:697:PHE:HB2	1.90	0.71
22:O:355:PRO:O	22:O:356:ARG:HG2	1.91	0.71
26:S:211:ARG:HH21	26:S:240:ASP:HB3	1.55	0.71
33:Z:880:SER:OG	33:Z:903:MET:O	2.07	0.71
6:k:2:ASP:CG	6:k:34:LYS:HE2	2.15	0.71
1:1:46:THR:HG22	1:1:59:GLU:H	1.55	0.71
1:8:183:THR:HG21	1:8:187:VAL:HB	1.72	0.71
17:J:87:LYS:HE3	17:J:92:GLY:HA2	1.73	0.71
19:L:296:SER:OG	19:L:298:ASP:OD1	2.06	0.71
24:Q:405:GLN:HB2	25:R:395:ASN:CA	2.18	0.71
24:Q:415:LEU:HD21	29:V:258:GLU:O	1.90	0.71
25:R:215:GLY:C	25:R:223:ASN:HD21	1.99	0.71
25:R:369:GLY:C	25:R:372:ILE:HD12	2.15	0.71
25:R:382:ASP:OD1	25:R:383:ARG:N	2.24	0.71
26:S:409:LEU:O	26:S:413:LEU:N	2.24	0.71
27:T:250:MET:HA	27:T:252:GLU:H	1.52	0.71
28:U:202:SER:O	28:U:206:ASP:N	2.18	0.71
29:V:92:MET:O	29:V:96:LYS:N	2.14	0.71
30:W:51:LEU:HB3	30:W:63:SER:HB3	1.71	0.71
33:Z:605:SER:CB	33:Z:878:LEU:HD11	2.20	0.71
33:Z:793:PHE:CE2	33:Z:827:LEU:HA	2.26	0.71
11:d:18:PHE:O	11:d:22:TYR:N	2.21	0.71
14:g:218:TRP:CZ3	14:g:223:GLU:HB2	2.26	0.71
7:l:155:SER:OG	7:l:196:ARG:NH2	2.23	0.71
1:1:23:PRO:O	2:2:137:ARG:NH1	2.23	0.71
2:9:151:GLY:O	2:9:159:PHE:N	2.17	0.71
16:I:195:VAL:HG12	16:I:293:GLN:HB3	1.72	0.71
19:L:81:ILE:HD11	20:M:18:LEU:HD13	1.72	0.71
19:L:149:ASP:OD2	19:L:152:THR:N	2.24	0.71
19:L:380:VAL:HA	19:L:383:SER:HB2	1.71	0.71
22:O:168:THR:HA	22:O:171:PHE:HB3	1.71	0.71
23:P:118:VAL:O	23:P:121:THR:OG1	2.09	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:6:SER:O	24:Q:10:GLU:N	2.18	0.71
24:Q:405:GLN:CG	25:R:395:ASN:HB3	2.20	0.71
25:R:400:TYR:O	25:R:401:HIS:C	2.34	0.71
27:T:257:THR:O	27:T:261:GLU:N	2.15	0.71
9:b:98:LYS:O	9:b:102:GLY:N	2.20	0.71
14:g:234:ASP:O	14:g:238:GLU:N	2.17	0.71
3:h:25:VAL:HG22	3:h:143:TYR:HB2	1.72	0.71
7:7:155:SER:OG	7:7:196:ARG:NH2	2.23	0.71
1:8:208:THR:OG1	4:i:225:ARG:NH2	2.23	0.71
2:9:44:VAL:N	2:9:177:THR:OG1	2.18	0.71
2:9:194:ARG:N	2:9:197:ASP:OD2	2.18	0.71
16:I:258:LEU:HD11	16:I:420:GLN:HE22	1.54	0.71
17:J:182:PRO:O	17:J:289:LYS:NZ	2.24	0.71
23:P:311:TRP:NE1	23:P:342:GLN:OE1	2.24	0.71
25:R:304:TYR:HA	25:R:307:TYR:CD2	2.26	0.71
8:a:40:ILE:HG23	8:a:56:GLN:HB2	1.73	0.71
6:k:157:GLY:O	6:k:161:LEU:N	2.19	0.71
1:1:134:ASP:OD1	1:1:138:LYS:N	2.24	0.70
5:5:11:ILE:HD13	5:5:142:ALA:HB3	1.72	0.70
9:B:118:MET:HE2	9:B:152:PRO:HA	1.73	0.70
16:I:310:GLU:N	16:I:354:ALA:O	2.22	0.70
25:R:382:ASP:CB	26:S:399:TYR:HB2	2.20	0.70
26:S:385:SER:CB	26:S:425:ARG:NH2	2.54	0.70
28:U:57:GLU:OE2	30:W:96:LEU:HD22	1.90	0.70
33:Z:269:TYR:HE1	33:Z:277:GLU:HG2	1.52	0.70
33:Z:364:ASN:ND2	33:Z:954:PRO:HD2	2.05	0.70
6:k:37:GLN:O	6:k:61:GLN:NE2	2.24	0.70
2:2:44:VAL:H	2:2:177:THR:HG1	1.38	0.70
8:A:40:ILE:HG23	8:A:56:GLN:HB2	1.73	0.70
14:G:44:ASP:HB2	14:G:221:LEU:HB3	1.72	0.70
16:I:281:GLN:HG2	17:J:224:GLY:N	2.06	0.70
16:I:286:ASP:HB2	17:J:223:ILE:HB	1.72	0.70
19:L:301:ILE:O	19:L:305:LEU:N	2.20	0.70
24:Q:236:PHE:O	24:Q:240:PHE:N	2.19	0.70
25:R:191:LEU:HD11	25:R:210:TYR:HA	1.73	0.70
25:R:302:ALA:O	25:R:305:PHE:N	2.24	0.70
26:S:472:HIS:HB2	28:U:288:PHE:CE1	2.27	0.70
29:V:121:VAL:O	29:V:125:THR:N	2.17	0.70
33:Z:563:VAL:HG11	33:Z:594:PRO:CB	2.20	0.70
13:f:13:PHE:H	14:g:23:GLN:HE22	1.40	0.70
4:i:37:PHE:N	4:i:40:GLY:O	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j:17:GLY:HA3	5:j:163:LEU:HD22	1.73	0.70
7:7:248:GLY:O	5:j:203:ARG:NH2	2.23	0.70
2:9:135:GLN:HB3	2:9:139:LYS:NZ	2.05	0.70
11:D:75:PHE:HA	11:D:133:THR:HA	1.73	0.70
13:F:40:SER:OG	13:F:43:HIS:N	2.22	0.70
13:F:117:GLN:NE2	13:F:120:THR:OG1	2.24	0.70
13:F:213:ILE:O	13:F:225:TYR:N	2.22	0.70
14:G:126:TYR:O	14:G:129:VAL:HG23	1.91	0.70
18:K:281:ARG:HE	18:K:285:GLN:H	1.39	0.70
19:L:387:ASN:OD1	19:L:390:ASP:N	2.23	0.70
21:N:69:TYR:HB2	21:N:78:ALA:HB2	1.72	0.70
22:O:382:LYS:HG2	22:O:383:LYS:HG3	1.72	0.70
23:P:238:ALA:HB1	23:P:264:ILE:HG23	1.72	0.70
24:Q:65:TYR:CE2	24:Q:74:LEU:HD13	2.26	0.70
25:R:77:SER:HB3	25:R:90:GLU:HA	1.71	0.70
26:S:273:PHE:O	26:S:277:SER:N	2.23	0.70
26:S:385:SER:OG	26:S:425:ARG:NH2	2.24	0.70
27:T:186:ARG:HB3	27:T:209:LEU:HD22	1.73	0.70
30:W:56:GLY:H	30:W:83:GLY:HA3	1.55	0.70
32:Y:83:ARG:NH1	32:Y:87:GLU:OE2	2.24	0.70
9:b:119:GLN:NE2	10:c:83:ASP:HA	2.07	0.70
13:f:90:GLN:O	13:f:94:TYR:N	2.17	0.70
3:h:122:ASP:OD2	3:h:125:ASN:N	2.22	0.70
3:3:89:TYR:HE2	14:G:115:ARG:HH21	1.37	0.70
5:5:45:HIS:HA	5:5:50:PHE:HA	1.72	0.70
8:A:76:SER:OG	8:A:79:ILE:N	2.17	0.70
8:A:236:LEU:HB3	8:A:240:ASN:HB2	1.72	0.70
9:B:185:LEU:O	9:B:189:ILE:N	2.17	0.70
12:E:159:GLU:OE1	12:E:163:THR:OG1	2.09	0.70
14:G:218:TRP:CZ3	14:G:223:GLU:HB2	2.26	0.70
15:H:96:PRO:HB3	15:H:192:ASP:C	2.11	0.70
17:J:71:TYR:HB2	17:J:115:LEU:HB3	1.73	0.70
20:M:177:THR:HA	20:M:237:ALA:HB2	1.73	0.70
20:M:292:ASP:OD2	20:M:294:GLU:HB2	1.91	0.70
21:N:223:LEU:HD22	21:N:897:LYS:HE2	1.72	0.70
24:Q:405:GLN:CD	25:R:395:ASN:HB3	2.16	0.70
25:R:120:LEU:HD13	25:R:130:GLN:HA	1.73	0.70
25:R:415:GLN:O	25:R:419:ALA:N	2.24	0.70
29:V:91:MET:O	29:V:95:LEU:N	2.20	0.70
29:V:118:LEU:HD21	29:V:140:VAL:HG22	1.71	0.70
1:1:185:GLY:HA3	4:4:240:ALA:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:58:ASP:OD1	2:2:74:ARG:NH2	2.22	0.70
2:2:94:GLN:NE2	3:h:138:VAL:H	1.89	0.70
2:2:226:ARG:NH1	3:3:213:GLU:OE1	2.21	0.70
11:D:12:SER:OG	11:D:16:HIS:N	2.24	0.70
15:H:44:PRO:HA	33:Z:622:HIS:CG	2.26	0.70
15:H:292:ARG:CZ	20:M:250:GLN:HE21	2.04	0.70
17:J:75:VAL:HA	17:J:86:VAL:HG22	1.71	0.70
17:J:127:GLU:CB	17:J:129:LYS:HZ2	2.03	0.70
20:M:145:LEU:HD12	20:M:161:SER:HA	1.73	0.70
22:O:9:THR:O	22:O:13:THR:CB	2.40	0.70
23:P:254:GLU:HA	23:P:257:TRP:HE3	1.56	0.70
25:R:335:ARG:NH2	25:R:374:ASN:CG	2.49	0.70
25:R:338:TYR:O	25:R:343:GLU:C	2.34	0.70
25:R:380:VAL:O	25:R:389:GLU:N	2.25	0.70
26:S:330:LEU:HA	26:S:333:PHE:HB2	1.73	0.70
33:Z:585:LEU:CG	33:Z:603:VAL:CG2	2.68	0.70
8:a:200:GLU:OE1	8:a:200:GLU:N	2.15	0.70
13:f:117:GLN:NE2	13:f:120:THR:OG1	2.24	0.70
3:h:113:THR:HG23	3:h:134:LEU:HD21	1.74	0.70
5:j:43:ILE:HA	5:j:52:GLY:HA2	1.74	0.70
11:D:72:VAL:HG13	11:D:221:ILE:HD13	1.73	0.70
19:L:179:THR:OG1	19:L:181:ASP:OD1	2.10	0.70
19:L:249:SER:HB3	20:M:257:GLY:HA3	1.72	0.70
19:L:420:ARG:O	19:L:424:GLU:N	2.24	0.70
22:O:125:GLY:O	22:O:129:ILE:HG12	1.91	0.70
24:Q:65:TYR:O	24:Q:69:GLY:N	2.25	0.70
24:Q:281:ILE:O	24:Q:287:THR:OG1	2.05	0.70
25:R:41:GLU:HA	25:R:44:LYS:HB3	1.74	0.70
26:S:343:LEU:O	26:S:347:HIS:N	2.20	0.70
27:T:260:ILE:O	27:T:264:MET:N	2.18	0.70
29:V:136:ALA:H	29:V:157:ARG:HD3	1.55	0.70
29:V:209:GLU:O	29:V:213:LEU:N	2.20	0.70
33:Z:844:ALA:O	33:Z:848:THR:N	2.18	0.70
11:d:216:LYS:N	11:d:220:ASP:O	2.24	0.70
14:g:241:ASP:HA	14:g:244:GLN:HB2	1.73	0.70
6:6:2:ASP:CG	6:6:34:LYS:HE2	2.15	0.70
6:6:37:GLN:O	6:6:61:GLN:NE2	2.24	0.70
1:8:37:GLU:O	1:8:138:LYS:HA	1.92	0.70
1:8:132:GLY:HA2	1:8:226:VAL:HG11	1.72	0.70
8:A:186:PHE:O	8:A:190:LYS:N	2.21	0.70
11:D:56:ASP:OD2	11:D:58:ARG:NH2	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:117:GLN:O	13:F:120:THR:OG1	2.09	0.70
16:I:248:LEU:N	16:I:353:MET:O	2.21	0.70
17:J:250:ILE:HG12	17:J:292:MET:HE1	1.73	0.70
17:J:251:ASP:HB3	17:J:293:ALA:O	1.91	0.70
19:L:111:GLU:HG3	19:L:117:TYR:HE1	1.56	0.70
22:O:14:LEU:C	22:O:16:MET:O	2.34	0.70
24:Q:60:GLU:O	24:Q:64:LEU:N	2.22	0.70
24:Q:314:PHE:CE2	24:Q:339:TYR:HB2	2.27	0.70
25:R:410:LEU:C	25:R:414:LEU:HG	2.17	0.70
26:S:438:HIS:HE2	27:T:197:TYR:HH	1.34	0.70
29:V:38:LEU:O	29:V:42:ARG:N	2.23	0.70
33:Z:131:LYS:HA	33:Z:135:LEU:HB2	1.73	0.70
33:Z:780:MET:HE2	33:Z:789:GLN:H	1.57	0.70
10:c:49:GLU:HA	10:c:211:LEU:HD23	1.73	0.70
3:h:122:ASP:HB3	3:h:125:ASN:HB2	1.74	0.70
2:2:232:ILE:HB	2:2:240:THR:HB	1.73	0.70
4:4:228:LYS:NZ	5:5:154:TYR:O	2.24	0.70
15:H:309:ASP:HA	15:H:354:ALA:HB3	1.74	0.70
19:L:338:LEU:HA	19:L:343:LEU:HD12	1.72	0.70
21:N:246:LYS:NZ	21:N:281:GLY:O	2.23	0.70
24:Q:253:ASN:HD21	24:Q:258:ALA:H	1.38	0.70
25:R:354:ALA:HB1	25:R:361:VAL:HA	1.73	0.70
26:S:425:ARG:HD2	27:T:156:SER:OG	1.92	0.70
26:S:475:TYR:HE2	28:U:288:PHE:HA	1.56	0.70
10:c:15:PRO:HA	11:d:22:TYR:CE1	2.25	0.70
11:d:12:SER:OG	11:d:16:HIS:N	2.24	0.70
4:i:38:ASN:OD1	4:i:39:ASN:N	2.24	0.70
6:k:49:GLU:HB2	6:k:99:GLN:HB2	1.73	0.70
5:5:17:GLY:HA3	5:5:163:LEU:HD22	1.73	0.70
6:6:109:LYS:NZ	6:6:186:LYS:O	2.25	0.70
2:9:226:ARG:HD3	2:9:246:GLN:HE21	1.57	0.70
17:J:34:ILE:HG23	17:J:37:LYS:HD2	1.74	0.70
18:K:156:SER:HB3	19:L:126:ARG:HE	1.56	0.70
19:L:165:PRO:HB2	19:L:169:ASN:H	1.56	0.70
19:L:216:LYS:HE2	19:L:341:GLY:HA2	1.73	0.70
19:L:251:ILE:HG23	19:L:262:ILE:HG21	1.74	0.70
21:N:68:VAL:O	21:N:72:LEU:N	2.25	0.70
22:O:102:LEU:HD21	22:O:128:LEU:HD11	1.72	0.70
24:Q:394:ASN:HB3	24:Q:396:TRP:NE1	2.07	0.70
33:Z:214:HIS:C	33:Z:216:GLY:H	2.00	0.70
8:a:76:SER:OG	8:a:79:ILE:N	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:72:VAL:HG13	11:d:221:ILE:HD13	1.73	0.70
2:2:226:ARG:HD3	2:2:246:GLN:HE21	1.57	0.70
11:D:195:THR:O	11:D:198:SER:OG	2.06	0.70
15:H:70:LYS:HA	15:H:73:ASP:HB2	1.72	0.70
15:H:207:THR:OG1	15:H:265:ASN:ND2	2.25	0.70
16:I:123:LEU:HA	16:I:126:ILE:HD12	1.72	0.70
16:I:281:GLN:HG3	17:J:224:GLY:H	1.56	0.70
18:K:157:SER:HA	18:K:159:SER:N	2.06	0.70
18:K:298:GLU:OE2	18:K:302:GLN:NE2	2.24	0.70
19:L:81:ILE:HG23	20:M:22:ILE:HD11	1.74	0.70
21:N:70:TYR:OH	26:S:219:LYS:O	2.08	0.70
21:N:778:LYS:N	21:N:860:LYS:O	2.25	0.70
21:N:779:GLU:HG2	21:N:866:TYR:CE1	2.27	0.70
22:O:41:LEU:HD22	22:O:82:LEU:HD21	1.73	0.70
23:P:395:ARG:CZ	24:Q:365:ILE:HG12	2.22	0.70
25:R:259:PHE:O	25:R:333:MET:HE3	1.91	0.70
25:R:350:LEU:HD21	25:R:365:ASP:OD2	1.91	0.70
26:S:12:SER:O	26:S:16:ASN:N	2.24	0.70
27:T:86:LYS:O	27:T:90:PHE:N	2.24	0.70
33:Z:364:ASN:HB3	33:Z:954:PRO:HG3	1.74	0.70
33:Z:584:VAL:HG13	33:Z:603:VAL:HG11	1.74	0.70
5:5:118:LYS:NZ	5:5:119:PRO:O	2.25	0.69
2:9:226:ARG:HG3	2:9:247:VAL:HB	1.74	0.69
14:G:51:GLU:O	14:G:66:LYS:NZ	2.20	0.69
15:H:454:TYR:CZ	15:H:456:LYS:HB2	2.26	0.69
18:K:297:ILE:HD13	18:K:300:LEU:HD12	1.74	0.69
19:L:259:SER:HB2	19:L:303:ARG:NE	2.05	0.69
21:N:492:THR:HG22	21:N:528:ARG:HG2	1.74	0.69
23:P:248:ASP:HA	23:P:251:LYS:HB3	1.73	0.69
23:P:292:LYS:HG3	23:P:294:GLU:HB2	1.74	0.69
24:Q:231:ASP:O	24:Q:234:THR:OG1	2.04	0.69
24:Q:314:PHE:CB	24:Q:339:TYR:CE1	2.72	0.69
25:R:208:ASN:O	25:R:212:THR:N	2.16	0.69
25:R:380:VAL:CA	26:S:398:THR:CG2	2.29	0.69
25:R:399:GLN:NE2	28:U:275:VAL:CG2	2.56	0.69
26:S:296:ALA:N	26:S:299:LYS:HZ3	1.89	0.69
27:T:9:LYS:HA	27:T:12:SER:HB3	1.74	0.69
27:T:106:ILE:O	27:T:110:LEU:N	2.18	0.69
9:b:118:MET:HE2	9:b:152:PRO:HA	1.73	0.69
12:e:159:GLU:OE1	12:e:163:THR:OG1	2.09	0.69
13:f:68:GLU:O	13:f:222:PHE:N	2.14	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:51:GLU:O	14:g:66:LYS:NZ	2.20	0.69
5:j:44:PHE:O	5:j:51:LEU:N	2.16	0.69
3:3:25:VAL:HG22	3:3:143:TYR:HB2	1.72	0.69
4:4:202:VAL:O	4:4:219:TYR:N	2.25	0.69
1:8:134:ASP:OD1	1:8:138:LYS:N	2.24	0.69
16:I:270:THR:H	16:I:304:SER:HA	1.57	0.69
18:K:156:SER:O	18:K:158:ILE:HB	1.91	0.69
18:K:393:ARG:HA	18:K:396:ARG:HB2	1.75	0.69
21:N:87:ASP:OD1	21:N:88:ARG:N	2.24	0.69
21:N:346:ASN:HA	21:N:349:ILE:HD12	1.73	0.69
21:N:578:ASP:O	21:N:584:ARG:NE	2.23	0.69
22:O:15:ARG:H	22:O:16:MET:C	1.98	0.69
22:O:82:LEU:H	22:O:85:SER:HB3	1.57	0.69
22:O:266:PHE:CZ	22:O:274:ILE:HG12	2.27	0.69
24:Q:138:SER:HA	24:Q:141:LEU:HB3	1.74	0.69
24:Q:409:TYR:CG	25:R:399:GLN:O	2.45	0.69
25:R:115:GLU:HA	25:R:118:GLN:HB3	1.75	0.69
28:U:271:ASP:HA	28:U:274:MET:HE2	1.75	0.69
29:V:25:GLU:O	29:V:200:ASN:HB2	1.92	0.69
29:V:230:TYR:N	29:V:231:GLU:OE1	2.26	0.69
33:Z:270:SER:O	33:Z:276:ASN:OD1	2.10	0.69
33:Z:275:GLN:HG3	33:Z:278:LEU:HB2	1.74	0.69
33:Z:364:ASN:HB3	33:Z:954:PRO:CG	2.22	0.69
33:Z:601:VAL:CG1	33:Z:746:ILE:HD13	2.22	0.69
33:Z:806:GLU:HA	33:Z:809:MET:HB2	1.73	0.69
4:i:138:HIS:HB3	4:i:140:PHE:CE2	2.27	0.69
5:j:125:ASP:OD1	5:j:128:GLY:N	2.25	0.69
6:k:109:LYS:NZ	6:k:186:LYS:O	2.25	0.69
3:3:122:ASP:HB3	3:3:125:ASN:HB2	1.74	0.69
10:C:49:GLU:HA	10:C:211:LEU:HD23	1.73	0.69
16:I:175:LEU:O	16:I:183:ILE:HA	1.92	0.69
17:J:188:TYR:O	17:J:316:PHE:N	2.25	0.69
18:K:344:ARG:HD2	18:K:379:SER:HA	1.72	0.69
22:O:248:TYR:HA	22:O:251:LEU:HB2	1.73	0.69
22:O:377:VAL:O	22:O:381:GLY:N	2.23	0.69
24:Q:402:THR:CB	24:Q:403:PRO:HD3	2.20	0.69
26:S:342:LEU:O	26:S:345:TYR:N	2.25	0.69
28:U:205:LYS:O	28:U:209:GLU:N	2.21	0.69
29:V:23:THR:HB	29:V:164:LEU:HD23	1.75	0.69
31:X:77:PRO:HG2	31:X:79:LYS:HB2	1.74	0.69
33:Z:761:PHE:CD2	33:Z:780:MET:CE	2.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:52:LYS:HE3	12:e:218:GLN:HB2	1.75	0.69
12:e:85:ALA:O	12:e:89:ILE:N	2.21	0.69
1:1:46:THR:HG22	1:1:59:GLU:N	2.08	0.69
12:E:44:GLU:OE1	12:E:193:LEU:N	2.25	0.69
14:G:44:ASP:OD2	14:G:222:SER:N	2.17	0.69
15:H:162:ARG:HD2	20:M:75:LEU:HD11	1.72	0.69
17:J:102:ILE:HD12	17:J:107:LEU:HD21	1.74	0.69
17:J:165:GLU:O	17:J:169:LYS:N	2.17	0.69
18:K:245:LYS:NZ	19:L:256:ILE:HG12	2.07	0.69
20:M:166:ARG:NH2	20:M:168:LYS:O	2.26	0.69
20:M:354:GLU:O	20:M:358:ALA:N	2.20	0.69
22:O:59:LEU:HA	22:O:62:TYR:CE2	2.28	0.69
22:O:298:GLU:OE2	22:O:357:ILE:O	2.10	0.69
24:Q:383:ASP:OD2	24:Q:384:LYS:CD	2.21	0.69
24:Q:405:GLN:CB	25:R:395:ASN:HA	2.17	0.69
25:R:410:LEU:O	25:R:414:LEU:N	2.19	0.69
27:T:263:ALA:O	27:T:267:ALA:N	2.22	0.69
28:U:15:LEU:HB3	29:V:212:MET:HE2	1.75	0.69
29:V:93:ASP:O	29:V:97:GLN:N	2.22	0.69
2:2:180:GLY:O	2:2:184:ALA:N	2.22	0.69
15:H:304:CYS:O	15:H:350:LYS:N	2.22	0.69
16:I:116:GLN:O	16:I:120:LYS:N	2.15	0.69
17:J:25:GLN:HA	17:J:28:GLN:HB2	1.75	0.69
17:J:76:ILE:HB	17:J:85:LEU:HD23	1.72	0.69
17:J:344:ARG:O	17:J:348:GLU:N	2.22	0.69
17:J:369:ALA:HB1	17:J:374:ARG:HB2	1.74	0.69
18:K:281:ARG:HD2	18:K:290:ARG:HG2	1.74	0.69
20:M:291:PHE:CE2	20:M:292:ASP:HB3	2.28	0.69
20:M:312:LEU:HB3	20:M:342:ARG:HG2	1.73	0.69
21:N:36:TRP:HA	21:N:39:ILE:HB	1.73	0.69
21:N:421:ASP:HA	21:N:424:LYS:HB3	1.74	0.69
21:N:450:ILE:HG23	21:N:451:GLY:H	1.56	0.69
21:N:682:PHE:O	21:N:686:ILE:N	2.14	0.69
23:P:104:LEU:O	23:P:107:SER:O	2.10	0.69
24:Q:136:SER:HA	24:Q:139:ILE:HD12	1.73	0.69
24:Q:163:ARG:HA	24:Q:166:LYS:HD2	1.75	0.69
25:R:53:LYS:HB3	25:R:59:MET:HE1	1.75	0.69
25:R:200:LYS:HE2	25:R:202:GLY:CA	2.10	0.69
26:S:139:HIS:HA	26:S:142:VAL:HB	1.72	0.69
27:T:187:ASP:OD1	27:T:224:ARG:NH2	2.24	0.69
30:W:25:ARG:NH1	30:W:144:PHE:HB3	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:196:VAL:HA	11:d:199:LEU:HD12	1.74	0.69
13:f:11:VAL:CG2	14:g:128:SER:O	2.39	0.69
5:j:118:LYS:NZ	5:j:119:PRO:O	2.25	0.69
6:k:18:SER:O	6:k:34:LYS:NZ	2.25	0.69
6:6:49:GLU:N	6:6:99:GLN:O	2.23	0.69
12:E:234:GLU:N	12:E:234:GLU:OE1	2.25	0.69
13:F:176:LEU:HD22	14:G:57:LYS:HB3	1.74	0.69
20:M:22:ILE:O	20:M:26:SER:N	2.22	0.69
22:O:28:GLN:O	22:O:32:PHE:N	2.23	0.69
24:Q:401:GLU:CD	25:R:392:ARG:NH2	2.43	0.69
26:S:410:LYS:HD2	26:S:413:LEU:HD23	1.74	0.69
33:Z:334:LYS:N	33:Z:340:LEU:O	2.22	0.69
9:b:66:LEU:HD11	9:b:69:PRO:HA	1.73	0.69
14:g:62:GLN:NE2	14:g:213:GLU:OE2	2.26	0.69
3:h:148:SER:OG	3:h:185:ASP:OD2	2.10	0.69
4:i:65:ARG:HB2	4:i:71:TRP:CH2	2.28	0.69
1:1:170:ASP:OD2	5:5:177:ARG:NH2	2.24	0.69
20:M:286:ILE:HA	20:M:301:VAL:HB	1.75	0.69
21:N:318:LYS:HZ2	21:N:348:PHE:CB	2.05	0.69
21:N:492:THR:HA	21:N:528:ARG:HD2	1.73	0.69
22:O:282:GLN:N	22:O:282:GLN:OE1	2.24	0.69
22:O:383:LYS:O	22:O:387:ARG:N	2.21	0.69
24:Q:185:TYR:O	24:Q:189:ARG:N	2.25	0.69
25:R:49:PHE:O	25:R:53:LYS:N	2.26	0.69
25:R:164:THR:O	25:R:168:ILE:N	2.24	0.69
26:S:212:SER:O	26:S:216:LYS:N	2.26	0.69
29:V:267:LYS:HZ2	29:V:273:ARG:HA	1.57	0.69
31:X:78:ILE:HD13	31:X:88:ALA:HB2	1.74	0.69
32:Y:76:GLU:HA	32:Y:79:ALA:HB3	1.74	0.69
3:h:55:ARG:HB2	3:h:61:TRP:CH2	2.28	0.69
1:1:37:GLU:O	1:1:138:LYS:HA	1.92	0.69
2:2:226:ARG:HG3	2:2:247:VAL:HB	1.74	0.69
3:3:113:THR:HG23	3:3:134:LEU:HD21	1.74	0.69
4:4:138:HIS:HB3	4:4:140:PHE:CE2	2.27	0.69
5:5:98:ARG:O	5:5:101:GLY:N	2.26	0.69
5:5:125:ASP:OD1	5:5:128:GLY:N	2.25	0.69
7:7:78:THR:N	7:7:204:VAL:O	2.23	0.69
8:A:91:ARG:NH1	14:G:157:TYR:H	1.90	0.69
15:H:156:VAL:N	20:M:76:PRO:HG3	2.07	0.69
15:H:263:VAL:HA	15:H:266:ARG:HB2	1.73	0.69
16:I:286:ASP:H	17:J:223:ILE:HD12	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:188:TYR:O	17:J:316:PHE:O	2.11	0.69
18:K:180:GLN:HE22	18:K:340:PHE:HA	1.58	0.69
18:K:212:TYR:O	18:K:340:PHE:N	2.26	0.69
18:K:256:ASP:HA	18:K:259:ARG:HB3	1.75	0.69
19:L:81:ILE:HG22	19:L:82:ARG:HG3	1.74	0.69
19:L:253:ASP:O	19:L:254:LYS:HB2	1.93	0.69
19:L:418:ALA:O	19:L:422:VAL:N	2.19	0.69
21:N:461:GLU:O	21:N:465:ALA:N	2.25	0.69
21:N:665:ILE:HG22	21:N:666:GLN:HG2	1.74	0.69
22:O:183:ASN:HA	22:O:185:PHE:CE2	2.28	0.69
22:O:314:SER:HB3	22:O:328:VAL:HG21	1.75	0.69
23:P:115:ARG:O	23:P:119:ILE:N	2.25	0.69
23:P:287:ASP:OD1	23:P:294:GLU:HA	1.93	0.69
23:P:392:LYS:HE3	24:Q:354:PHE:CD2	2.27	0.69
24:Q:4:PRO:O	24:Q:50:ARG:NH1	2.25	0.69
24:Q:90:LYS:HE3	24:Q:129:LYS:HG2	1.74	0.69
25:R:54:ILE:HG22	25:R:59:MET:HB2	1.74	0.69
25:R:382:ASP:OD1	26:S:402:ILE:CG2	2.34	0.69
25:R:384:VAL:CB	26:S:402:ILE:HG22	2.21	0.69
26:S:20:HIS:CE1	26:S:131:THR:HB	2.23	0.69
27:T:174:PHE:CE1	27:T:177:PHE:HD2	2.11	0.69
28:U:141:GLU:HA	28:U:153:THR:H	1.56	0.69
28:U:273:LEU:HD23	28:U:276:ILE:HD12	1.73	0.69
30:W:163:ASN:HB3	30:W:164:PRO:HD3	1.74	0.69
33:Z:275:GLN:CG	33:Z:278:LEU:HB2	2.22	0.69
33:Z:405:ASN:HA	33:Z:408:TYR:HB2	1.75	0.69
33:Z:416:THR:HG23	33:Z:450:GLY:HA2	1.75	0.69
10:c:14:SER:OG	10:c:18:ARG:N	2.25	0.69
10:c:76:ALA:HB3	10:c:136:ILE:HB	1.75	0.69
4:i:202:VAL:O	4:i:219:TYR:N	2.25	0.69
5:j:126:LEU:HD12	5:j:127:ILE:HG23	1.74	0.69
1:1:48:ASN:OD1	1:1:55:ASN:ND2	2.24	0.69
11:D:138:PHE:CE1	11:D:145:PRO:HA	2.28	0.69
11:D:196:VAL:HA	11:D:199:LEU:HD12	1.74	0.69
14:G:5:GLY:N	14:G:8:TYR:HH	1.89	0.69
15:H:426:ALA:O	15:H:430:ALA:N	2.20	0.69
17:J:188:TYR:H	17:J:316:PHE:N	1.88	0.69
20:M:357:ARG:NH1	20:M:385:GLU:H	1.91	0.69
21:N:9:LEU:HD23	21:N:12:LEU:HD12	1.73	0.69
22:O:383:LYS:HD2	22:O:387:ARG:HE	1.58	0.69
23:P:425:HIS:O	23:P:429:ILE:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:135:HIS:HA	24:Q:138:SER:HB2	1.74	0.69
25:R:119:LYS:HA	25:R:122:GLU:HB3	1.75	0.69
25:R:359:VAL:HG12	32:Y:82:ASP:HB3	1.74	0.69
30:W:109:ARG:NH2	30:W:195:GLY:O	2.26	0.69
33:Z:821:GLY:O	33:Z:911:LYS:HE3	1.93	0.69
33:Z:867:PHE:HA	33:Z:873:LEU:HA	1.73	0.69
8:a:236:LEU:HB3	8:a:240:ASN:HB2	1.72	0.69
10:c:97:ASN:O	10:c:101:THR:N	2.23	0.69
11:d:75:PHE:HA	11:d:133:THR:HA	1.73	0.69
9:B:97:TYR:HE2	9:B:103:GLU:HG3	1.58	0.69
21:N:470:LEU:HD22	21:N:485:MET:HE1	1.74	0.69
22:O:170:SER:O	22:O:173:SER:OG	2.11	0.69
22:O:309:SER:HB3	22:O:347:LEU:HA	1.74	0.69
23:P:133:GLU:N	23:P:136:ARG:HE	1.91	0.69
24:Q:404:ASN:ND2	25:R:394:ASP:O	2.25	0.69
25:R:383:ARG:HB3	26:S:406:ASP:CG	2.17	0.69
27:T:182:LYS:HB3	27:T:186:ARG:NH1	2.07	0.69
33:Z:354:PRO:O	33:Z:358:TYR:N	2.19	0.69
33:Z:593:HIS:H	33:Z:596:THR:CG2	2.05	0.69
9:b:97:TYR:HE2	9:b:103:GLU:HG3	1.58	0.69
12:e:128:SER:H	13:f:125:GLY:HA3	1.56	0.69
1:1:205:ASP:OD1	4:4:229:GLN:N	2.26	0.68
3:3:55:ARG:HB2	3:3:61:TRP:CH2	2.28	0.68
14:G:62:GLN:NE2	14:G:213:GLU:OE2	2.26	0.68
18:K:380:GLY:O	18:K:384:ALA:N	2.19	0.68
21:N:683:LEU:HA	21:N:686:ILE:HB	1.76	0.68
22:O:219:ILE:HD13	22:O:251:LEU:HD21	1.73	0.68
23:P:133:GLU:HG3	23:P:137:ALA:HB2	1.74	0.68
24:Q:408:THR:OG1	25:R:399:GLN:NE2	2.26	0.68
26:S:155:LEU:HA	26:S:158:PHE:HB2	1.74	0.68
27:T:149:ASP:HA	27:T:152:LEU:HB2	1.75	0.68
33:Z:158:ALA:O	33:Z:162:GLY:N	2.23	0.68
33:Z:605:SER:C	33:Z:878:LEU:HD11	2.15	0.68
8:a:75:ILE:HD11	8:a:81:MET:HE2	1.75	0.68
5:j:121:ILE:HD12	5:j:137:ILE:HG12	1.75	0.68
7:l:254:HIS:O	7:l:261:ILE:N	2.24	0.68
4:4:38:ASN:OD1	4:4:39:ASN:N	2.24	0.68
5:5:126:LEU:HD12	5:5:127:ILE:HG23	1.74	0.68
6:6:18:SER:O	6:6:34:LYS:NZ	2.25	0.68
6:6:149:ARG:HB2	6:6:152:MET:HG3	1.76	0.68
7:7:119:THR:OG1	7:7:175:MET:N	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:142:GLU:O	7:7:146:LYS:N	2.26	0.68
8:A:123:ASN:ND2	9:B:83:ARG:HE	1.91	0.68
10:C:187:ASP:OD1	10:C:217:ARG:NH2	2.26	0.68
13:F:140:SER:OG	13:F:143:HIS:NE2	2.18	0.68
15:H:254:THR:O	16:I:367:ARG:NH2	2.27	0.68
18:K:123:LEU:HD13	18:K:125:THR:HB	1.75	0.68
18:K:210:LEU:O	18:K:338:ILE:N	2.26	0.68
22:O:206:THR:O	22:O:210:ARG:N	2.26	0.68
24:Q:404:ASN:OD1	25:R:393:PRO:HG2	1.93	0.68
24:Q:411:SER:HB3	29:V:258:GLU:HG3	1.75	0.68
25:R:225:LYS:HZ2	25:R:261:LEU:HA	1.57	0.68
25:R:417:TYR:HH	26:S:478:SER:HG	0.69	0.68
26:S:411:LEU:HD12	26:S:419:VAL:HG13	1.74	0.68
28:U:56:PHE:HE2	28:U:58:GLU:HB2	1.57	0.68
28:U:127:GLN:HA	28:U:133:PRO:HB3	1.74	0.68
29:V:37:MET:HE3	29:V:108:TYR:HB2	1.74	0.68
30:W:37:PHE:CE2	30:W:68:GLU:O	2.45	0.68
33:Z:328:ASP:HA	33:Z:332:ASN:HB2	1.75	0.68
11:d:94:GLN:NE2	6:k:62:ALA:O	2.25	0.68
12:e:17:PRO:HA	13:f:24:TYR:CE1	2.27	0.68
3:h:13:LYS:O	4:i:145:HIS:NE2	2.25	0.68
3:h:44:TYR:CE2	3:h:46:ALA:HA	2.29	0.68
7:l:142:GLU:O	7:l:146:LYS:N	2.26	0.68
2:9:232:ILE:HB	2:9:240:THR:HB	1.73	0.68
9:B:66:LEU:HD11	9:B:69:PRO:HA	1.73	0.68
10:C:14:SER:OG	10:C:18:ARG:N	2.25	0.68
11:D:163:THR:HG23	11:D:168:SER:HB2	1.75	0.68
12:E:52:LYS:HE3	12:E:218:GLN:HB2	1.75	0.68
17:J:186:ILE:HA	17:J:292:MET:O	1.93	0.68
22:O:326:HIS:HA	22:O:329:MET:HE2	1.75	0.68
23:P:109:SER:N	23:P:112:LEU:HG	2.09	0.68
24:Q:86:MET:HE2	24:Q:128:GLU:OE2	1.93	0.68
24:Q:121:SER:HA	24:Q:124:PHE:HB2	1.74	0.68
25:R:62:TYR:O	25:R:66:LEU:N	2.15	0.68
25:R:219:LEU:HB2	25:R:223:ASN:ND2	2.08	0.68
25:R:335:ARG:HH22	25:R:374:ASN:CB	2.05	0.68
26:S:144:LEU:HD13	26:S:155:LEU:HD13	1.73	0.68
26:S:287:SER:O	26:S:291:GLU:N	2.17	0.68
26:S:317:HIS:CE1	26:S:321:GLN:HE22	2.11	0.68
28:U:57:GLU:HB2	30:W:100:HIS:NE2	2.07	0.68
28:U:64:ASP:OD1	28:U:105:LYS:NZ	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:279:SER:O	28:U:283:ARG:N	2.21	0.68
30:W:16:SER:H	30:W:115:CYS:HB3	1.58	0.68
33:Z:344:LYS:NZ	33:Z:921:GLU:HG2	2.07	0.68
33:Z:564:ARG:HG3	33:Z:594:PRO:CA	2.22	0.68
33:Z:582:ASP:OD1	33:Z:615:LEU:CD1	2.42	0.68
33:Z:620:LEU:HD12	33:Z:746:ILE:HD11	1.75	0.68
8:a:91:ARG:NH2	14:g:157:TYR:O	2.25	0.68
9:b:179:TRP:HA	9:b:183:LEU:HD11	1.76	0.68
3:h:172:ASP:HB3	3:h:176:HIS:CE1	2.29	0.68
5:5:12:VAL:HG22	5:5:25:CYS:HB3	1.76	0.68
1:8:46:THR:HG22	1:8:59:GLU:N	2.08	0.68
1:8:114:HIS:CE1	12:E:102:TYR:HA	2.29	0.68
13:F:155:GLU:H	14:G:64:ASN:HD21	1.41	0.68
14:G:241:ASP:HA	14:G:244:GLN:HB2	1.73	0.68
16:I:284:LEU:HD21	16:I:327:ARG:HB2	1.76	0.68
19:L:251:ILE:O	19:L:252:VAL:HG22	1.91	0.68
21:N:892:PRO:HD3	21:N:905:LEU:HD12	1.76	0.68
22:O:283:HIS:O	22:O:287:LEU:N	2.22	0.68
22:O:311:GLU:HG3	22:O:321:LYS:HE3	1.75	0.68
23:P:292:LYS:HG3	23:P:295:SER:H	1.59	0.68
25:R:202:GLY:HA3	25:R:206:ARG:CG	2.23	0.68
25:R:223:ASN:O	25:R:226:GLU:N	2.26	0.68
8:a:39:ASN:O	8:a:58:LYS:NZ	2.19	0.68
8:a:177:GLU:N	8:a:177:GLU:OE1	2.23	0.68
11:d:62:SER:OG	11:d:64:VAL:O	2.10	0.68
5:j:169:GLN:O	5:j:173:ASN:ND2	2.26	0.68
7:l:119:THR:OG1	7:l:175:MET:N	2.25	0.68
3:3:172:ASP:HB3	3:3:176:HIS:CE1	2.29	0.68
12:E:85:ALA:O	12:E:89:ILE:N	2.21	0.68
18:K:300:LEU:O	18:K:304:ASP:N	2.26	0.68
22:O:47:LYS:HA	22:O:50:ASP:HB2	1.76	0.68
23:P:198:VAL:HA	23:P:201:ARG:NE	2.09	0.68
24:Q:75:ARG:O	24:Q:79:PRO:HD2	1.94	0.68
28:U:111:LYS:HG2	28:U:118:PRO:HD2	1.73	0.68
33:Z:442:VAL:HB	33:Z:447:VAL:HG11	1.76	0.68
14:g:130:ARG:HH11	14:g:130:ARG:HG2	1.58	0.68
3:3:148:SER:OG	3:3:185:ASP:OD2	2.10	0.68
4:4:96:SER:O	4:4:100:SER:N	2.27	0.68
17:J:333:ARG:HH22	25:R:206:ARG:HG2	1.58	0.68
17:J:342:ASN:O	17:J:379:GLN:NE2	2.26	0.68
19:L:220:LEU:HA	19:L:347:VAL:HB	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:184:ASP:O	22:O:187:SER:OG	2.08	0.68
28:U:165:GLU:H	29:V:42:ARG:HH12	1.41	0.68
3:3:27:PHE:HE2	3:3:29:ASP:HB2	1.59	0.68
6:6:148:TYR:O	6:6:149:ARG:NH1	2.22	0.68
17:J:337:LEU:H	25:R:204:TRP:CG	2.12	0.68
20:M:373:ASP:HB2	20:M:412:HIS:H	1.59	0.68
21:N:368:THR:HB	21:N:403:GLY:HA3	1.75	0.68
23:P:39:LEU:HG	23:P:43:GLU:HB2	1.76	0.68
24:Q:91:SER:HB2	9:b:246:ARG:HG2	1.76	0.68
24:Q:130:ARG:HG2	24:Q:132:PHE:H	1.58	0.68
31:X:10:PHE:HE1	31:X:124:LYS:HB3	1.58	0.68
33:Z:304:PRO:O	33:Z:308:LYS:HG3	1.93	0.68
33:Z:880:SER:HB2	33:Z:906:ALA:HB3	1.74	0.68
13:f:7:ASP:O	13:f:21:GLN:NE2	2.14	0.68
13:f:50:LYS:HB3	13:f:59:TYR:HB3	1.75	0.68
2:2:162:TYR:OH	2:2:164:ASN:HB3	1.93	0.68
3:3:44:TYR:CE2	3:3:46:ALA:HA	2.29	0.68
1:8:23:PRO:O	2:9:137:ARG:NH1	2.26	0.68
16:I:293:GLN:HA	16:I:296:LYS:HD2	1.75	0.68
17:J:250:ILE:HD11	17:J:300:LEU:HD21	1.76	0.68
21:N:143:LYS:O	21:N:147:ALA:N	2.25	0.68
23:P:143:LEU:HG	23:P:147:LYS:HE3	1.76	0.68
23:P:154:ASP:O	23:P:158:ASP:N	2.26	0.68
26:S:202:ASN:O	26:S:203:SER:CB	2.41	0.68
27:T:57:ILE:O	27:T:61:ILE:N	2.19	0.68
28:U:225:ILE:HG22	28:U:229:LEU:HD21	1.76	0.68
33:Z:161:ILE:O	33:Z:165:TYR:N	2.20	0.68
33:Z:768:GLY:HA2	33:Z:773:ARG:HE	1.57	0.68
33:Z:925:VAL:O	33:Z:958:ASN:HA	1.94	0.68
3:3:40:THR:HA	3:3:46:ALA:H	1.59	0.68
4:4:65:ARG:HB2	4:4:71:TRP:CH2	2.28	0.68
4:4:236:ARG:NE	5:5:162:ASP:OD1	2.26	0.68
5:5:44:PHE:N	5:5:51:LEU:O	2.27	0.68
6:6:13:VAL:HG23	6:6:114:PRO:HB2	1.76	0.68
6:6:157:GLY:O	6:6:161:LEU:N	2.19	0.68
13:F:50:LYS:HB3	13:F:59:TYR:HB3	1.75	0.68
13:F:168:ALA:O	13:F:172:LEU:N	2.16	0.68
15:H:323:ALA:O	20:M:290:ARG:NH1	2.26	0.68
19:L:71:ASP:HA	19:L:74:LEU:HB3	1.74	0.68
19:L:357:ARG:CZ	19:L:384:ASP:HA	2.24	0.68
25:R:28:GLU:O	25:R:32:LEU:N	2.17	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:64:LYS:HA	25:R:94:PHE:CZ	2.28	0.68
28:U:124:ASP:HB3	28:U:133:PRO:HB2	1.76	0.68
30:W:132:LEU:HD13	30:W:139:VAL:HG21	1.74	0.68
33:Z:623:ARG:HH22	33:Z:736:LEU:N	1.91	0.68
9:b:94:HIS:O	9:b:99:ARG:N	2.22	0.68
7:l:174:THR:N	7:l:190:VAL:O	2.22	0.68
2:2:194:ARG:N	2:2:197:ASP:OD2	2.18	0.68
6:6:139:TYR:OH	6:k:25:ILE:HG12	1.94	0.68
13:F:20:PHE:O	13:F:24:TYR:N	2.21	0.68
16:I:270:THR:O	16:I:305:ILE:N	2.27	0.68
17:J:103:ASN:HB2	17:J:106:ASP:H	1.58	0.68
17:J:269:GLN:O	17:J:273:LEU:N	2.27	0.68
17:J:329:ARG:O	17:J:333:ARG:HB2	1.93	0.68
18:K:219:LYS:NZ	18:K:318:THR:O	2.28	0.68
22:O:340:SER:O	22:O:349:THR:N	2.27	0.68
25:R:384:VAL:HG23	26:S:406:ASP:HB2	0.69	0.68
28:U:161:ILE:HG21	29:V:216:LEU:HD22	1.75	0.68
29:V:28:TYR:HB2	29:V:64:ASN:HA	1.76	0.68
33:Z:511:PRO:O	33:Z:515:SER:N	2.24	0.68
10:c:187:ASP:OD1	10:c:217:ARG:NH2	2.26	0.68
3:h:32:ILE:HG12	3:h:196:VAL:HA	1.76	0.68
5:j:98:ARG:O	5:j:101:GLY:N	2.25	0.68
2:2:34:THR:N	2:2:140:MET:O	2.27	0.67
4:4:192:ILE:HG23	4:4:199:GLY:HA2	1.75	0.67
7:7:148:ARG:NH1	7:7:257:GLU:O	2.27	0.67
2:9:162:TYR:OH	2:9:164:ASN:HB3	1.94	0.67
10:C:76:ALA:HB3	10:C:136:ILE:HB	1.75	0.67
15:H:428:MET:O	15:H:432:ARG:N	2.18	0.67
17:J:236:MET:HA	17:J:239:GLU:CD	2.18	0.67
20:M:359:GLN:O	20:M:362:GLN:HB3	1.95	0.67
23:P:160:LEU:O	23:P:183:GLN:NE2	2.23	0.67
25:R:184:GLN:HB3	25:R:185:LEU:HG	1.75	0.67
26:S:159:ASN:HD21	26:S:187:ILE:HG21	1.57	0.67
33:Z:391:ASN:HA	33:Z:394:TYR:HD2	1.60	0.67
10:c:4:ARG:HA	11:d:6:ARG:HH12	1.60	0.67
3:h:20:THR:HA	3:h:188:SER:HA	1.75	0.67
4:i:192:ILE:HG23	4:i:199:GLY:HA2	1.75	0.67
1:1:237:GLU:OE2	2:2:194:ARG:NH1	2.26	0.67
3:3:138:VAL:H	2:9:94:GLN:HE22	1.42	0.67
7:7:254:HIS:O	7:7:261:ILE:N	2.24	0.67
12:E:71:ASP:OD1	12:E:72:ARG:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:44:LEU:HB3	18:K:68:ILE:HG21	1.77	0.67
17:J:45:GLU:HG2	26:S:484:ASP:OD1	1.93	0.67
17:J:252:SER:HB2	17:J:295:ASN:N	2.07	0.67
21:N:649:VAL:HB	21:N:652:VAL:HG23	1.77	0.67
22:O:215:TYR:O	22:O:219:ILE:N	2.19	0.67
23:P:214:GLU:O	23:P:218:LEU:N	2.20	0.67
24:Q:138:SER:O	24:Q:142:ALA:N	2.17	0.67
26:S:465:ILE:HG21	27:T:260:ILE:HG23	1.76	0.67
27:T:125:GLU:O	27:T:129:LEU:N	2.26	0.67
28:U:268:LYS:O	28:U:271:ASP:HB2	1.94	0.67
33:Z:297:VAL:HG11	33:Z:310:LEU:HD13	1.76	0.67
33:Z:833:GLN:O	33:Z:837:TYR:N	2.28	0.67
33:Z:888:LEU:H	33:Z:900:LEU:HB3	1.59	0.67
12:e:234:GLU:N	12:e:234:GLU:OE1	2.25	0.67
3:h:40:THR:HA	3:h:46:ALA:H	1.59	0.67
2:9:34:THR:N	2:9:140:MET:O	2.27	0.67
9:B:179:TRP:HA	9:B:183:LEU:HD11	1.76	0.67
15:H:306:ILE:N	15:H:350:LYS:O	2.26	0.67
16:I:136:LEU:HB2	16:I:172:CYS:H	1.58	0.67
17:J:114:CYS:N	17:J:124:LYS:O	2.27	0.67
21:N:313:LEU:HD12	21:N:316:LYS:HD3	1.74	0.67
24:Q:383:ASP:C	24:Q:384:LYS:CD	2.66	0.67
24:Q:420:ASN:O	24:Q:424:ASP:N	2.20	0.67
25:R:351:LYS:O	25:R:355:SER:N	2.17	0.67
26:S:167:LEU:HA	26:S:171:TYR:CE2	2.30	0.67
28:U:174:LEU:HD23	28:U:175:LEU:H	1.59	0.67
33:Z:564:ARG:NH1	33:Z:894:MET:HE3	2.09	0.67
9:b:5:TYR:OH	14:g:127:ASN:ND2	2.28	0.67
11:d:138:PHE:CE1	11:d:145:PRO:HA	2.28	0.67
7:l:148:ARG:NH1	7:l:257:GLU:O	2.27	0.67
5:5:43:ILE:HA	5:5:52:GLY:HA2	1.74	0.67
10:C:218:LYS:HG3	10:C:222:ASP:OD2	1.95	0.67
19:L:318:LEU:HD13	19:L:322:LYS:HA	1.77	0.67
20:M:255:TYR:CB	20:M:258:GLU:HB2	2.25	0.67
20:M:274:ALA:HA	20:M:275:PRO:C	2.20	0.67
21:N:889:ARG:HB3	21:N:909:GLU:HB2	1.75	0.67
24:Q:262:LEU:O	24:Q:266:LEU:N	2.17	0.67
24:Q:380:MET:CG	24:Q:385:ILE:O	2.43	0.67
25:R:240:SER:OG	25:R:244:THR:N	2.28	0.67
26:S:312:GLN:HA	26:S:315:LYS:HD2	1.77	0.67
29:V:267:LYS:HB3	29:V:276:PRO:HG3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:172:LEU:HD23	30:W:185:ILE:HG22	1.77	0.67
33:Z:606:CYS:SG	33:Z:607:ALA:N	2.65	0.67
13:f:171:TYR:HA	13:f:174:ARG:HB3	1.75	0.67
4:i:96:SER:O	4:i:100:SER:N	2.27	0.67
6:6:141:PHE:HB3	7:l:242:ARG:NH2	2.08	0.67
15:H:172:MET:HB3	16:I:156:TYR:HD2	1.60	0.67
15:H:176:VAL:HG21	15:H:181:TYR:H	1.59	0.67
16:I:386:LYS:HA	16:I:389:LEU:HB2	1.75	0.67
18:K:346:ARG:HA	18:K:349:ARG:HD2	1.76	0.67
25:R:24:TYR:CE1	25:R:244:THR:HA	2.30	0.67
25:R:200:LYS:HD3	25:R:203:ASP:H	1.58	0.67
25:R:328:PHE:O	25:R:332:GLU:HG2	1.94	0.67
26:S:291:GLU:HA	26:S:294:ILE:HB	1.77	0.67
27:T:120:THR:O	27:T:124:SER:N	2.19	0.67
28:U:79:MET:O	28:U:83:ILE:N	2.22	0.67
28:U:165:GLU:N	29:V:42:ARG:HH12	1.93	0.67
28:U:168:GLU:O	28:U:172:GLU:N	2.26	0.67
33:Z:358:TYR:CE1	33:Z:961:GLU:C	2.73	0.67
3:h:27:PHE:HE2	3:h:29:ASP:HB2	1.58	0.67
6:k:13:VAL:HG23	6:k:114:PRO:HB2	1.76	0.67
3:3:32:ILE:HG12	3:3:196:VAL:HA	1.76	0.67
7:7:152:ALA:O	7:7:155:SER:OG	2.11	0.67
1:8:47:ARG:HB2	1:8:219:ASP:HB2	1.77	0.67
8:A:75:ILE:HD11	8:A:81:MET:HE2	1.75	0.67
15:H:385:ARG:NH2	15:H:408:SER:O	2.28	0.67
15:H:396:MET:N	16:I:238:MET:CB	2.57	0.67
15:H:434:ARG:HB3	33:Z:929:VAL:HG11	1.77	0.67
16:I:445:GLN:HB3	16:I:449:ARG:HH12	1.59	0.67
17:J:219:VAL:HG11	17:J:267:GLU:HG2	1.76	0.67
19:L:168:TYR:N	19:L:170:MET:O	2.26	0.67
21:N:474:SER:HB3	21:N:477:SER:HB2	1.75	0.67
21:N:542:SER:O	21:N:548:ARG:NE	2.28	0.67
22:O:301:PHE:HB2	22:O:305:ILE:HG23	1.75	0.67
22:O:310:PHE:HD1	22:O:348:VAL:HG22	1.59	0.67
22:O:352:TRP:O	22:O:353:VAL:HG12	1.94	0.67
23:P:119:ILE:HA	23:P:125:VAL:HG21	1.75	0.67
23:P:254:GLU:HA	23:P:257:TRP:CE3	2.30	0.67
25:R:307:TYR:HA	25:R:310:GLU:HB3	1.77	0.67
26:S:297:ILE:N	26:S:299:LYS:HZ2	1.90	0.67
27:T:180:ILE:O	27:T:183:SER:OG	2.12	0.67
9:b:161:ALA:HB3	10:c:56:LEU:HD23	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:98:LYS:NZ	9:B:104:TYR:OH	2.27	0.67
10:C:124:GLN:HG3	11:D:127:ARG:HG3	1.76	0.67
13:F:228:GLU:CD	13:F:228:GLU:H	2.03	0.67
16:I:247:ILE:O	16:I:375:ILE:N	2.25	0.67
17:J:163:VAL:HG13	17:J:164:ILE:HG13	1.77	0.67
17:J:224:GLY:HA2	17:J:227:SER:HB2	1.76	0.67
18:K:113:THR:HB	19:L:125:PRO:HB2	1.77	0.67
18:K:182:GLN:NE2	18:K:186:GLU:HG3	2.02	0.67
19:L:270:ALA:O	19:L:274:GLU:N	2.28	0.67
21:N:46:ILE:HG23	21:N:61:ALA:HB1	1.76	0.67
23:P:267:PHE:HE1	23:P:329:PHE:HD1	1.41	0.67
24:Q:158:ILE:O	24:Q:162:LEU:N	2.18	0.67
24:Q:314:PHE:HB3	24:Q:339:TYR:HE1	1.53	0.67
24:Q:351:ILE:HB	24:Q:352:GLU:CD	2.19	0.67
24:Q:422:VAL:HG11	29:V:268:THR:HB	1.76	0.67
26:S:131:THR:HG1	26:S:174:ARG:HH22	1.40	0.67
26:S:222:SER:H	26:S:226:ASP:HB2	1.60	0.67
27:T:74:ASN:OD1	27:T:75:PHE:N	2.28	0.67
31:X:16:GLU:O	31:X:18:ASN:ND2	2.28	0.67
33:Z:288:LEU:O	33:Z:289:GLY:C	2.36	0.67
33:Z:364:ASN:CB	33:Z:954:PRO:CD	2.73	0.67
8:a:41:ASN:HB2	8:a:56:GLN:NE2	2.10	0.67
10:c:70:ASN:N	10:c:73:ILE:O	2.21	0.67
10:c:217:ARG:O	10:c:226:TYR:N	2.25	0.67
14:g:5:GLY:N	14:g:8:TYR:HH	1.93	0.67
11:D:62:SER:OG	11:D:64:VAL:O	2.10	0.67
15:H:95:HIS:ND1	16:I:140:ILE:CG1	2.58	0.67
18:K:140:HIS:HB2	18:K:145:ALA:H	1.60	0.67
18:K:209:VAL:HG12	18:K:336:ARG:HB2	1.75	0.67
19:L:242:ASN:O	19:L:277:ILE:N	2.27	0.67
21:N:761:ILE:HG22	21:N:762:ARG:H	1.60	0.67
21:N:778:LYS:HB3	21:N:860:LYS:HA	1.76	0.67
22:O:387:ARG:HD2	27:T:266:TYR:CE2	2.30	0.67
23:P:261:LEU:HA	23:P:264:ILE:HB	1.77	0.67
25:R:198:ILE:HG12	25:R:200:LYS:H	1.60	0.67
25:R:309:LEU:HD21	32:Y:72:ASP:HB2	1.76	0.67
30:W:56:GLY:O	30:W:86:HIS:NE2	2.27	0.67
30:W:120:ASP:OD1	30:W:121:SER:N	2.25	0.67
31:X:117:LYS:HE3	31:X:121:ILE:HG12	1.75	0.67
33:Z:173:ALA:HA	33:Z:258:PRO:HA	1.76	0.67
6:k:149:ARG:HB2	6:k:152:MET:HG3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:54:ILE:HG12	2:2:232:ILE:HG12	1.77	0.67
7:7:140:LEU:HG	7:7:144:ARG:NH1	2.10	0.67
7:7:174:THR:N	7:7:190:VAL:O	2.22	0.67
1:8:68:ASN:ND2	1:8:227:THR:O	2.16	0.67
2:9:48:LYS:HA	2:9:53:VAL:HA	1.76	0.67
8:A:41:ASN:HB2	8:A:56:GLN:NE2	2.10	0.67
10:C:4:ARG:HG2	11:D:6:ARG:HH12	1.59	0.67
10:C:66:LEU:N	10:C:212:GLU:OE1	2.24	0.67
11:D:37:LYS:HE2	11:D:160:SER:HA	1.77	0.67
13:F:7:ASP:O	13:F:21:GLN:NE2	2.14	0.67
15:H:105:ILE:HD13	15:H:169:GLU:OE1	1.94	0.67
15:H:445:LYS:O	15:H:449:LYS:N	2.23	0.67
17:J:189:GLY:O	17:J:295:ASN:ND2	2.28	0.67
17:J:330:ILE:O	17:J:333:ARG:HB3	1.94	0.67
18:K:273:GLU:H	18:K:317:ALA:HB3	1.60	0.67
19:L:353:ASN:O	19:L:357:ARG:N	2.18	0.67
20:M:35:LYS:O	20:M:70:LYS:N	2.28	0.67
20:M:178:GLU:H	20:M:237:ALA:HB2	1.60	0.67
21:N:875:LEU:HB3	21:N:878:GLN:H	1.59	0.67
22:O:253:GLN:HA	22:O:256:ASN:ND2	2.10	0.67
23:P:168:TYR:C	23:P:170:SER:H	2.01	0.67
23:P:276:LEU:O	23:P:280:LEU:N	2.25	0.67
25:R:381:ILE:HG22	26:S:398:THR:CG2	2.25	0.67
30:W:112:ALA:O	30:W:142:ILE:N	2.25	0.67
33:Z:584:VAL:HG22	33:Z:588:ILE:CD1	2.24	0.67
11:d:11:PHE:H	12:e:23:GLN:HE22	1.43	0.67
8:A:147:ASP:N	8:A:151:GLY:O	2.26	0.67
13:F:171:TYR:HA	13:F:174:ARG:HB3	1.76	0.67
13:F:195:GLU:O	13:F:198:SER:OG	2.11	0.67
21:N:69:TYR:O	21:N:74:GLU:N	2.28	0.67
25:R:331:ARG:O	25:R:335:ARG:N	2.27	0.67
25:R:400:TYR:HH	28:U:274:MET:CA	2.08	0.67
27:T:251:HIS:NE2	27:T:253:GLU:OE1	2.27	0.67
29:V:27:VAL:HB	29:V:201:ILE:HA	1.76	0.67
29:V:252:SER:O	29:V:256:GLU:N	2.28	0.67
33:Z:478:VAL:HG23	33:Z:489:ALA:HB1	1.75	0.67
33:Z:568:LEU:HD23	33:Z:599:ILE:HG13	1.30	0.67
33:Z:780:MET:O	33:Z:784:SER:N	2.26	0.67
9:b:33:THR:HA	9:b:165:GLY:HA3	1.78	0.67
12:e:45:GLY:HA2	12:e:153:TYR:CE1	2.30	0.67
5:5:121:ILE:HD12	5:5:137:ILE:HG12	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:84:GLN:N	7:7:221:TRP:O	2.26	0.66
15:H:198:MET:HB2	15:H:274:VAL:HG22	1.78	0.66
17:J:224:GLY:O	17:J:228:ARG:N	2.19	0.66
19:L:243:PHE:HA	19:L:277:ILE:HB	1.77	0.66
20:M:309:LEU:O	20:M:313:ASP:N	2.24	0.66
21:N:441:VAL:O	21:N:445:GLY:N	2.28	0.66
21:N:573:HIS:O	21:N:577:SER:N	2.28	0.66
21:N:680:LYS:O	21:N:684:SER:N	2.15	0.66
22:O:312:ASP:O	22:O:316:ALA:N	2.29	0.66
24:Q:7:LYS:NZ	24:Q:34:ASP:HB2	2.10	0.66
24:Q:415:LEU:HD22	29:V:261:LEU:HB2	1.77	0.66
25:R:167:LYS:HG2	25:R:194:VAL:HG23	1.76	0.66
25:R:363:PHE:HA	25:R:366:ASN:HD22	1.59	0.66
25:R:382:ASP:OD1	26:S:402:ILE:CD1	2.32	0.66
26:S:438:HIS:NE2	27:T:197:TYR:OH	2.20	0.66
26:S:464:ARG:HH21	28:U:281:LEU:H	1.41	0.66
33:Z:228:GLU:HB2	33:Z:258:PRO:HG2	1.76	0.66
33:Z:247:GLN:HA	33:Z:284:LEU:HD21	1.77	0.66
11:d:163:THR:HG23	11:d:168:SER:HB2	1.75	0.66
14:g:218:TRP:CZ3	14:g:224:THR:HG23	2.30	0.66
1:1:47:ARG:HB2	1:1:219:ASP:HB2	1.77	0.66
2:9:54:ILE:HG12	2:9:232:ILE:HG12	1.77	0.66
13:F:93:ASN:O	13:F:97:LEU:N	2.26	0.66
15:H:98:GLN:HE21	15:H:193:PRO:HB3	1.60	0.66
15:H:148:ASN:H	15:H:155:PHE:HB2	1.61	0.66
16:I:146:ILE:HA	16:I:155:TYR:O	1.95	0.66
18:K:242:PHE:HE2	18:K:254:VAL:CG2	2.03	0.66
18:K:244:HIS:HE1	18:K:250:GLY:HA2	1.60	0.66
21:N:57:ASP:O	21:N:60:MET:N	2.23	0.66
21:N:379:LEU:HA	21:N:412:TYR:HE1	1.60	0.66
23:P:253:ASP:OD1	23:P:256:LYS:N	2.26	0.66
23:P:335:LYS:HA	23:P:339:GLU:H	1.60	0.66
25:R:400:TYR:OH	26:S:461:PHE:CE2	2.48	0.66
26:S:452:TYR:O	26:S:454:SER:N	2.28	0.66
28:U:208:VAL:HA	28:U:211:LEU:HB3	1.77	0.66
31:X:23:LEU:HD22	31:X:25:THR:HG23	1.77	0.66
32:Y:78:LYS:HA	32:Y:81:LEU:HB3	1.76	0.66
9:b:98:LYS:NZ	9:b:104:TYR:OH	2.27	0.66
10:c:218:LYS:HG3	10:c:222:ASP:OD2	1.95	0.66
13:f:39:ARG:HA	13:f:44:ALA:HA	1.77	0.66
3:3:118:VAL:N	3:3:130:TYR:O	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:233:LYS:HD2	7:7:252:LEU:HD11	1.77	0.66
22:O:164:PRO:HB3	22:O:166:ARG:HB3	1.77	0.66
22:O:207:LEU:HD22	22:O:211:GLN:HE22	1.59	0.66
24:Q:361:HIS:O	24:Q:365:ILE:N	2.27	0.66
25:R:325:HIS:HB2	25:R:328:PHE:HD2	1.59	0.66
28:U:41:ALA:HA	28:U:46:ILE:HG23	1.75	0.66
29:V:213:LEU:O	29:V:216:LEU:HG	1.94	0.66
8:a:147:ASP:N	8:a:151:GLY:O	2.26	0.66
11:d:118:GLN:O	11:d:121:THR:OG1	2.11	0.66
14:g:44:ASP:OD2	14:g:222:SER:N	2.17	0.66
2:2:42:THR:HG21	2:2:58:ASP:OD1	1.84	0.66
2:2:220:ARG:O	3:3:45:ILE:N	2.22	0.66
12:E:213:ASP:OD1	12:E:216:ASN:N	2.25	0.66
15:H:67:ALA:O	15:H:71:GLU:N	2.21	0.66
15:H:331:ARG:NH2	20:M:249:PRO:HD3	2.11	0.66
21:N:299:TYR:HD1	21:N:755:PRO:HB3	1.59	0.66
21:N:306:ASN:O	21:N:712:ASN:ND2	2.29	0.66
21:N:533:ASP:HA	21:N:536:ILE:HB	1.77	0.66
22:O:99:LEU:O	22:O:132:GLU:OE1	2.14	0.66
24:Q:349:LYS:C	24:Q:350:ILE:HG13	2.20	0.66
26:S:430:GLY:C	26:S:432:ILE:H	2.02	0.66
30:W:85:LEU:HG	30:W:87:MET:H	1.60	0.66
33:Z:285:ALA:HA	33:Z:293:MET:HB2	1.75	0.66
11:d:12:SER:OG	11:d:14:ASP:OD1	2.08	0.66
3:h:15:GLU:HB3	4:i:145:HIS:HB2	1.78	0.66
6:k:49:GLU:N	6:k:99:GLN:O	2.23	0.66
15:H:224:VAL:HA	15:H:243:PRO:HD2	1.76	0.66
15:H:226:GLU:HA	15:H:267:THR:HG21	1.75	0.66
20:M:242:THR:O	20:M:277:ILE:N	2.29	0.66
21:N:47:GLU:OE2	21:N:69:TYR:OH	2.13	0.66
22:O:187:SER:O	22:O:191:THR:N	2.18	0.66
23:P:147:LYS:HB3	23:P:152:LYS:HB2	1.78	0.66
25:R:87:SER:OG	25:R:89:ASN:O	2.13	0.66
26:S:131:THR:O	26:S:135:ASN:N	2.20	0.66
26:S:424:SER:HB3	27:T:192:ASN:HB3	1.77	0.66
29:V:247:ILE:HA	29:V:250:GLN:HB2	1.78	0.66
1:1:241:ASP:HA	4:4:193:TRP:HA	1.78	0.66
3:3:27:PHE:N	3:3:30:GLY:O	2.21	0.66
11:D:53:LYS:HG2	11:D:54:LEU:H	1.60	0.66
15:H:270:THR:O	15:H:305:ILE:N	2.22	0.66
15:H:334:LEU:HA	15:H:337:ILE:HB	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:136:LEU:HB3	17:J:214:SER:HB2	1.78	0.66
17:J:160:ILE:HA	17:J:163:VAL:HG12	1.77	0.66
17:J:187:LEU:O	17:J:294:THR:N	2.29	0.66
18:K:193:VAL:HG12	18:K:194:GLN:HG3	1.77	0.66
18:K:341:PRO:C	18:K:342:SER:OG	2.38	0.66
21:N:308:ASN:HB3	21:N:711:ARG:HH11	1.60	0.66
23:P:395:ARG:CD	24:Q:361:HIS:HB3	2.23	0.66
24:Q:178:HIS:HD2	24:Q:197:SER:HA	1.59	0.66
24:Q:400:TYR:CE2	25:R:392:ARG:HA	2.30	0.66
25:R:64:LYS:HA	25:R:94:PHE:HZ	1.61	0.66
26:S:150:LYS:HG3	26:S:151:GLU:H	1.61	0.66
26:S:378:GLN:N	26:S:378:GLN:OE1	2.29	0.66
26:S:479:MET:HA	28:U:295:LYS:NZ	2.10	0.66
33:Z:344:LYS:CE	33:Z:919:GLU:HG3	2.25	0.66
10:c:66:LEU:N	10:c:212:GLU:OE1	2.24	0.66
4:i:228:LYS:NZ	5:j:154:TYR:O	2.27	0.66
5:j:203:ARG:NH2	5:j:205:ASP:OD2	2.28	0.66
6:k:41:HIS:CD2	6:k:109:LYS:HD3	2.31	0.66
6:6:130:TYR:OH	6:6:145:ASP:OD1	2.14	0.66
7:7:241:HIS:HA	5:j:205:ASP:HA	1.77	0.66
15:H:334:LEU:HD22	20:M:282:GLU:HG3	1.77	0.66
16:I:425:GLU:HA	16:I:428:LEU:HD12	1.78	0.66
17:J:211:ILE:HD12	17:J:245:ILE:HG12	1.78	0.66
17:J:345:LYS:HA	17:J:348:GLU:OE1	1.96	0.66
18:K:67:TYR:CE2	21:N:608:LEU:HD12	2.31	0.66
21:N:36:TRP:HB2	21:N:68:VAL:HG22	1.77	0.66
21:N:140:MET:O	21:N:144:CYS:N	2.24	0.66
22:O:250:TRP:HH2	22:O:271:LYS:HB2	1.61	0.66
23:P:54:SER:HB2	23:P:88:GLN:NE2	2.11	0.66
24:Q:40:ALA:HB2	24:Q:46:VAL:HG22	1.78	0.66
24:Q:314:PHE:CD2	24:Q:339:TYR:CD2	2.83	0.66
25:R:200:LYS:HD2	25:R:200:LYS:C	2.21	0.66
25:R:206:ARG:O	25:R:210:TYR:N	2.19	0.66
31:X:113:GLU:HG3	31:X:122:TYR:HB2	1.76	0.66
31:X:123:ASN:HA	31:X:126:ILE:HB	1.78	0.66
33:Z:789:GLN:HG2	33:Z:792:VAL:CB	2.25	0.66
1:8:30:THR:OG1	1:8:161:ALA:N	2.27	0.66
17:J:114:CYS:O	17:J:123:HIS:N	2.28	0.66
17:J:338:THR:HA	25:R:237:THR:HG23	1.78	0.66
18:K:103:ILE:H	18:K:108:GLY:HA2	1.60	0.66
18:K:342:SER:H	18:K:344:ARG:HH12	1.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:228:LYS:NZ	19:L:327:THR:O	2.23	0.66
20:M:134:LEU:HB2	20:M:156:LEU:O	1.96	0.66
20:M:329:ARG:HG2	20:M:330:VAL:N	2.10	0.66
21:N:321:LEU:HG	21:N:323:GLY:N	2.08	0.66
21:N:424:LYS:O	21:N:428:VAL:N	2.20	0.66
22:O:171:PHE:O	22:O:175:ASN:N	2.22	0.66
23:P:260:VAL:O	23:P:264:ILE:N	2.27	0.66
24:Q:178:HIS:O	24:Q:182:SER:N	2.23	0.66
24:Q:420:ASN:HA	25:R:413:LYS:NZ	2.11	0.66
33:Z:209:PRO:HA	33:Z:212:LEU:HB3	1.78	0.66
10:c:43:GLY:HA2	10:c:146:TYR:CZ	2.31	0.66
11:d:53:LYS:HG2	11:d:54:LEU:H	1.60	0.66
12:e:17:PRO:HA	13:f:24:TYR:CD1	2.30	0.66
13:f:93:ASN:O	13:f:97:LEU:N	2.26	0.66
14:g:121:GLN:O	14:g:124:THR:OG1	2.14	0.66
5:j:12:VAL:HG22	5:j:25:CYS:HB3	1.76	0.66
1:8:75:GLY:HA3	1:8:126:VAL:HA	1.78	0.66
10:C:43:GLY:HA2	10:C:146:TYR:CZ	2.31	0.66
17:J:39:GLU:O	26:S:480:ARG:NH2	2.27	0.66
18:K:49:PHE:HB2	21:N:152:LEU:HD12	1.77	0.66
18:K:341:PRO:C	18:K:342:SER:HG	2.03	0.66
21:N:123:PHE:HZ	21:N:161:TYR:HB2	1.61	0.66
21:N:398:ARG:HH21	21:N:442:LEU:HD22	1.61	0.66
21:N:779:GLU:HG2	21:N:866:TYR:HE1	1.61	0.66
22:O:326:HIS:O	22:O:330:ARG:N	2.23	0.66
23:P:173:MET:O	23:P:177:ILE:N	2.20	0.66
25:R:382:ASP:CB	26:S:399:TYR:CB	2.71	0.66
26:S:61:SER:N	26:S:133:GLU:OE2	2.29	0.66
26:S:368:LYS:HA	26:S:371:LEU:HD12	1.78	0.66
33:Z:364:ASN:HD22	33:Z:954:PRO:CD	2.08	0.66
9:b:205:ASN:H	9:b:208:THR:HG1	1.42	0.66
13:f:186:PRO:O	13:f:190:ILE:N	2.20	0.66
6:k:130:TYR:OH	6:k:145:ASP:OD1	2.14	0.66
1:8:127:HIS:ND1	1:8:144:PHE:O	2.29	0.66
2:9:80:ASP:OD1	2:9:81:ASN:N	2.29	0.66
2:9:180:GLY:O	2:9:184:ALA:N	2.22	0.66
14:G:218:TRP:CZ3	14:G:224:THR:HG23	2.31	0.66
16:I:261:LYS:HA	16:I:264:ALA:HB3	1.76	0.66
18:K:89:ILE:O	29:V:148:LYS:NZ	2.18	0.66
18:K:216:GLY:H	18:K:220:THR:H	1.44	0.66
20:M:147:GLY:O	20:M:156:LEU:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:398:ARG:O	21:N:402:GLY:N	2.28	0.66
21:N:714:THR:O	21:N:754:THR:N	2.29	0.66
22:O:196:LEU:HD23	22:O:233:LEU:HD21	1.78	0.66
23:P:177:ILE:HA	23:P:180:ILE:HD12	1.78	0.66
23:P:396:PRO:HD2	24:Q:357:VAL:HG12	1.78	0.66
24:Q:388:GLY:H	24:Q:397:LEU:CD2	2.09	0.66
25:R:188:LYS:HB2	25:R:217:HIS:CG	2.31	0.66
28:U:279:SER:O	28:U:282:VAL:N	2.29	0.66
33:Z:516:THR:HG22	33:Z:556:ILE:HG22	1.77	0.66
13:f:195:GLU:O	13:f:198:SER:OG	2.11	0.66
2:2:232:ILE:O	2:2:240:THR:N	2.26	0.65
2:9:86:ILE:HD12	2:9:93:MET:HG3	1.78	0.65
2:9:136:ARG:HB3	2:9:142:PRO:HA	1.78	0.65
10:C:27:GLU:O	10:C:30:SER:OG	2.08	0.65
13:F:39:ARG:HA	13:F:44:ALA:HA	1.77	0.65
16:I:242:PRO:HG3	16:I:346:ARG:C	2.21	0.65
16:I:244:LYS:HZ1	16:I:340:LEU:HG	1.61	0.65
19:L:246:SER:N	19:L:279:PHE:O	2.27	0.65
20:M:389:ALA:HA	20:M:392:LYS:HB3	1.79	0.65
21:N:184:LYS:HB3	21:N:188:TYR:CZ	2.31	0.65
21:N:444:HIS:O	21:N:448:LEU:N	2.29	0.65
22:O:102:LEU:CD2	22:O:128:LEU:CD1	2.71	0.65
24:Q:154:SER:O	24:Q:158:ILE:N	2.22	0.65
24:Q:382:LEU:HD13	24:Q:402:THR:CG2	2.25	0.65
24:Q:383:ASP:CA	24:Q:384:LYS:CB	2.70	0.65
25:R:47:ALA:HA	25:R:50:VAL:HB	1.77	0.65
25:R:383:ARG:HB3	26:S:406:ASP:OD1	1.96	0.65
26:S:232:MET:HA	26:S:235:ASN:HB2	1.78	0.65
26:S:321:GLN:O	26:S:325:GLY:N	2.29	0.65
26:S:404:LEU:O	26:S:408:CYS:N	2.27	0.65
26:S:422:MET:CA	26:S:425:ARG:HG2	2.26	0.65
26:S:461:PHE:O	26:S:465:ILE:N	2.18	0.65
28:U:124:ASP:OD2	28:U:128:GLN:N	2.28	0.65
31:X:85:ARG:HB3	31:X:101:LEU:HD13	1.78	0.65
10:c:4:ARG:HG2	11:d:6:ARG:HH12	1.60	0.65
5:5:161:GLU:HA	5:5:164:PHE:HB3	1.79	0.65
11:D:216:LYS:N	11:D:220:ASP:O	2.24	0.65
20:M:216:LYS:HE3	20:M:321:VAL:HG21	1.78	0.65
21:N:227:LYS:O	21:N:231:ASN:N	2.25	0.65
21:N:606:VAL:O	21:N:610:SER:N	2.19	0.65
21:N:686:ILE:HA	21:N:696:LYS:HE3	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:27:TYR:CD1	24:Q:57:SER:HB2	2.32	0.65
24:Q:55:GLU:O	24:Q:59:LEU:N	2.27	0.65
24:Q:182:SER:HA	24:Q:194:SER:HA	1.77	0.65
24:Q:230:LYS:HG3	24:Q:232:TYR:CZ	2.31	0.65
26:S:201:ILE:HA	27:T:46:ILE:HD11	1.77	0.65
29:V:40:HIS:CD2	29:V:49:VAL:HB	2.31	0.65
29:V:240:ALA:H	29:V:242:LYS:HZ3	1.44	0.65
33:Z:361:HIS:HA	33:Z:364:ASN:CB	2.26	0.65
5:j:161:GLU:HA	5:j:164:PHE:HB3	1.79	0.65
7:l:152:ALA:O	7:l:155:SER:OG	2.11	0.65
5:5:28:ARG:HB2	5:5:183:TRP:HB2	1.78	0.65
5:5:50:PHE:HE2	5:5:195:VAL:HG11	1.61	0.65
9:B:205:ASN:H	9:B:208:THR:HG1	1.43	0.65
12:E:45:GLY:HA2	12:E:153:TYR:CE1	2.30	0.65
15:H:200:VAL:HG22	15:H:272:ILE:HG23	1.79	0.65
17:J:133:LEU:HD23	17:J:134:VAL:H	1.60	0.65
18:K:408:GLU:O	18:K:412:ALA:N	2.25	0.65
19:L:132:ARG:H	19:L:135:VAL:HG11	1.61	0.65
19:L:379:ALA:HB2	19:L:415:LEU:HD21	1.79	0.65
21:N:344:THR:HG23	21:N:375:HIS:ND1	2.11	0.65
21:N:762:ARG:NE	21:N:764:SER:OG	2.30	0.65
22:O:44:SER:OG	22:O:73:ILE:HG12	1.95	0.65
23:P:147:LYS:HA	23:P:150:GLU:HB2	1.76	0.65
23:P:325:ASP:OD1	23:P:327:LEU:N	2.29	0.65
24:Q:227:CYS:HB3	24:Q:334:HIS:HE1	1.61	0.65
24:Q:428:GLU:O	24:Q:431:SER:OG	2.13	0.65
25:R:186:TYR:CE2	25:R:187:VAL:HG23	2.31	0.65
25:R:204:TRP:NE1	25:R:237:THR:HG21	2.11	0.65
25:R:400:TYR:HH	28:U:274:MET:C	2.03	0.65
26:S:3:SER:O	26:S:7:MET:N	2.21	0.65
26:S:268:LEU:O	26:S:272:TYR:N	2.24	0.65
26:S:311:GLN:O	26:S:315:LYS:N	2.19	0.65
28:U:281:LEU:O	28:U:285:ILE:N	2.30	0.65
33:Z:269:TYR:C	33:Z:272:TYR:CD2	2.73	0.65
13:f:228:GLU:CD	13:f:228:GLU:H	2.03	0.65
14:g:68:GLN:NE2	14:g:86:ARG:HG2	2.12	0.65
7:7:76:THR:HG23	7:7:108:LYS:HE2	1.78	0.65
7:7:76:THR:CG2	7:7:108:LYS:NZ	2.52	0.65
18:K:183:GLU:O	18:K:187:ALA:N	2.27	0.65
19:L:306:MET:HG3	19:L:309:LEU:HD23	1.78	0.65
20:M:149:ASN:N	20:M:154:LEU:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:187:ASN:HA	21:N:190:LEU:HB3	1.77	0.65
23:P:291:LYS:C	23:P:293:LEU:HB3	2.22	0.65
27:T:18:GLY:HA2	27:T:20:TYR:CZ	2.31	0.65
29:V:95:LEU:O	29:V:100:ARG:N	2.30	0.65
29:V:108:TYR:HA	29:V:139:VAL:HB	1.78	0.65
33:Z:165:TYR:CE2	33:Z:223:LEU:HB3	2.30	0.65
11:d:37:LYS:HE2	11:d:160:SER:HA	1.77	0.65
13:f:137:TYR:CZ	13:f:218:LYS:HA	2.31	0.65
2:9:132:VAL:HA	2:9:135:GLN:OE1	1.97	0.65
10:C:51:LYS:HG2	10:C:52:VAL:HG23	1.79	0.65
15:H:218:ILE:HA	15:H:221:LEU:HB2	1.79	0.65
17:J:129:LYS:HE2	17:J:129:LYS:CA	2.26	0.65
18:K:210:LEU:HB2	18:K:334:LEU:HD21	1.79	0.65
21:N:307:LYS:HD2	21:N:309:ILE:HD11	1.78	0.65
21:N:427:ILE:O	21:N:431:SER:N	2.28	0.65
22:O:137:TYR:CE1	22:O:146:ALA:HA	2.32	0.65
23:P:431:HIS:HA	29:V:230:TYR:CZ	2.30	0.65
24:Q:145:HIS:HA	24:Q:148:LYS:HB3	1.78	0.65
26:S:50:PRO:O	26:S:54:TRP:N	2.20	0.65
31:X:103:GLU:HB3	31:X:105:ASN:HD21	1.62	0.65
33:Z:585:LEU:HG	33:Z:603:VAL:CG2	2.25	0.65
8:a:96:ARG:HH21	8:a:124:LEU:HD21	1.62	0.65
6:k:148:TYR:O	6:k:149:ARG:NH1	2.22	0.65
11:D:70:HIS:CE1	11:D:103:PRO:HB2	2.31	0.65
16:I:287:GLY:H	17:J:223:ILE:HD13	1.60	0.65
18:K:178:ASP:O	18:K:182:GLN:N	2.24	0.65
19:L:282:GLU:OE1	19:L:328:ASN:N	2.28	0.65
23:P:393:VAL:HG23	24:Q:352:GLU:N	2.00	0.65
24:Q:62:GLY:HA2	24:Q:65:TYR:CD2	2.31	0.65
24:Q:314:PHE:CB	24:Q:342:LEU:CD1	2.74	0.65
24:Q:389:VAL:CB	25:R:347:THR:CA	2.75	0.65
25:R:259:PHE:CE1	25:R:333:MET:CE	2.79	0.65
25:R:263:ARG:HB3	25:R:263:ARG:CZ	2.26	0.65
28:U:167:GLU:HG2	29:V:35:LEU:HB3	1.79	0.65
29:V:26:THR:OG1	29:V:61:TYR:O	2.13	0.65
30:W:49:VAL:H	30:W:71:LYS:HZ1	1.45	0.65
33:Z:272:TYR:HB2	33:Z:276:ASN:OD1	1.96	0.65
33:Z:361:HIS:HA	33:Z:364:ASN:CG	2.22	0.65
9:b:1:MET:H3	14:g:129:VAL:HG13	1.61	0.65
12:e:14:THR:HG22	12:e:22:PHE:HE2	1.61	0.65
12:e:128:SER:H	13:f:125:GLY:CA	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:256:THR:N	7:l:259:GLY:O	2.29	0.65
13:F:137:TYR:CZ	13:F:218:LYS:HA	2.31	0.65
16:I:281:GLN:O	17:J:220:GLN:O	2.14	0.65
18:K:98:GLN:HG2	18:K:255:ARG:NH2	2.11	0.65
18:K:162:GLY:HA3	18:K:236:ARG:HB3	1.79	0.65
19:L:263:ILE:O	19:L:267:PHE:N	2.28	0.65
19:L:290:ARG:NH1	19:L:302:GLN:HB2	2.12	0.65
20:M:23:LEU:O	20:M:26:SER:OG	2.11	0.65
23:P:102:GLU:O	23:P:106:SER:N	2.29	0.65
24:Q:126:LYS:HG2	24:Q:134:LYS:NZ	2.11	0.65
24:Q:267:LEU:HG	24:Q:271:MET:HG3	1.78	0.65
25:R:350:LEU:HD11	25:R:365:ASP:OD1	1.95	0.65
26:S:13:SER:HA	26:S:16:ASN:HB2	1.78	0.65
27:T:49:ASP:HB3	27:T:53:ASN:HB2	1.78	0.65
29:V:237:ASN:HB2	29:V:238:LEU:CB	2.27	0.65
30:W:113:PHE:HE1	30:W:181:LEU:HD21	1.62	0.65
31:X:86:ILE:HG21	31:X:98:PHE:HB3	1.79	0.65
33:Z:806:GLU:O	33:Z:810:ASN:N	2.26	0.65
33:Z:987:PRO:HB3	33:Z:990:ARG:NH2	2.12	0.65
13:f:176:LEU:HD13	14:g:58:LEU:HD23	1.78	0.65
5:j:28:ARG:HB2	5:j:183:TRP:HB2	1.78	0.65
2:2:48:LYS:HA	2:2:53:VAL:HA	1.76	0.65
2:2:86:ILE:HD12	2:2:93:MET:HG3	1.78	0.65
1:8:212:GLU:HB3	4:i:58:LYS:HD3	1.77	0.65
15:H:40:TYR:O	15:H:44:PRO:N	2.29	0.65
15:H:379:LEU:O	15:H:413:ASN:HB3	1.97	0.65
16:I:207:SER:HB3	16:I:265:ASN:HD22	1.61	0.65
18:K:100:LEU:HD12	18:K:109:ILE:HG12	1.78	0.65
18:K:244:HIS:CE1	18:K:250:GLY:H	2.15	0.65
18:K:394:ALA:HB1	18:K:399:ARG:HB2	1.79	0.65
21:N:377:GLY:N	21:N:411:ILE:HG23	2.12	0.65
22:O:66:VAL:HA	22:O:69:PHE:HB2	1.78	0.65
23:P:124:VAL:O	23:P:136:ARG:HB3	1.97	0.65
24:Q:285:LYS:HA	24:Q:288:LYS:HE2	1.78	0.65
25:R:44:LYS:HG3	25:R:91:TRP:CH2	2.32	0.65
25:R:204:TRP:HA	25:R:207:ARG:HH11	1.62	0.65
25:R:365:ASP:O	25:R:369:GLY:N	2.19	0.65
26:S:217:PHE:HA	26:S:220:ILE:HB	1.77	0.65
26:S:343:LEU:HG	26:S:347:HIS:CE1	2.32	0.65
30:W:21:PHE:HZ	30:W:181:LEU:HB2	1.62	0.65
33:Z:761:PHE:HD2	33:Z:780:MET:HE1	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:69:VAL:HA	14:g:158:TRP:HZ3	1.61	0.65
12:e:71:ASP:OD1	12:e:72:ARG:N	2.27	0.65
13:f:14:SER:H	13:f:18:ARG:H	1.44	0.65
2:2:151:GLY:N	2:2:159:PHE:O	2.29	0.65
8:A:69:VAL:HA	14:G:158:TRP:CZ3	2.32	0.65
9:B:33:THR:HA	9:B:165:GLY:HA3	1.78	0.65
15:H:331:ARG:O	15:H:335:GLU:N	2.20	0.65
15:H:415:THR:O	15:H:419:LEU:HG	1.96	0.65
18:K:76:LYS:O	18:K:79:LEU:HB3	1.97	0.65
18:K:85:GLU:O	18:K:88:ARG:N	2.30	0.65
21:N:20:VAL:O	21:N:24:ALA:N	2.20	0.65
23:P:127:GLU:HG2	23:P:128:ASN:H	1.62	0.65
23:P:431:HIS:NE2	28:U:156:HIS:HB3	2.11	0.65
26:S:236:LEU:O	26:S:240:ASP:N	2.25	0.65
29:V:290:ASN:HA	29:V:293:VAL:HG12	1.78	0.65
30:W:78:ASP:O	30:W:79:THR:OG1	2.14	0.65
33:Z:761:PHE:CE2	33:Z:783:VAL:CG2	2.60	0.65
2:2:132:VAL:HA	2:2:135:GLN:OE1	1.97	0.65
4:4:36:LYS:N	4:4:152:TYR:O	2.29	0.65
10:C:64:GLU:HG3	10:C:65:LYS:HG3	1.78	0.65
15:H:382:LEU:O	15:H:408:SER:OG	2.12	0.65
16:I:358:ILE:HG13	16:I:359:GLU:H	1.61	0.65
17:J:181:GLN:HG2	17:J:286:LYS:HD2	1.79	0.65
18:K:404:GLN:O	18:K:408:GLU:N	2.19	0.65
20:M:82:VAL:H	20:M:142:PRO:HA	1.62	0.65
21:N:259:PHE:HA	21:N:262:VAL:HG12	1.79	0.65
21:N:314:LEU:O	21:N:318:LYS:N	2.28	0.65
21:N:618:ARG:O	21:N:621:THR:OG1	2.15	0.65
24:Q:24:GLU:OE2	24:Q:73:LYS:NZ	2.30	0.65
25:R:300:ASP:OD2	25:R:303:SER:OG	2.08	0.65
27:T:140:SER:HA	27:T:143:SER:HB2	1.79	0.65
31:X:37:PRO:HG2	31:X:41:GLU:HA	1.79	0.65
33:Z:281:ALA:O	33:Z:285:ALA:N	2.30	0.65
33:Z:518:LEU:HD13	33:Z:524:ALA:HB3	1.79	0.65
9:b:57:MET:O	9:b:60:THR:OG1	2.12	0.65
12:e:44:GLU:OE1	12:e:193:LEU:N	2.25	0.65
5:j:34:LEU:HD22	6:k:138:PHE:HE1	1.62	0.65
5:j:50:PHE:HE2	5:j:195:VAL:HG11	1.61	0.65
5:j:54:THR:OG1	5:j:139:SER:OG	2.13	0.65
5:j:135:ASP:OD1	5:j:136:PHE:N	2.29	0.65
12:E:14:THR:HG22	12:E:22:PHE:HE2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:281:GLN:CG	17:J:223:ILE:HG23	2.24	0.64
16:I:407:LEU:HD11	16:I:443:PHE:HD2	1.60	0.64
17:J:154:THR:HA	17:J:157:ILE:HB	1.79	0.64
18:K:156:SER:HB3	19:L:126:ARG:NE	2.12	0.64
19:L:285:ALA:H	20:M:303:ARG:HH21	1.42	0.64
20:M:72:ASN:CB	20:M:73:ARG:HG3	2.27	0.64
20:M:369:THR:OG1	20:M:408:SER:O	2.11	0.64
21:N:36:TRP:O	21:N:40:SER:N	2.30	0.64
22:O:91:ASP:OD1	22:O:92:PHE:N	2.28	0.64
22:O:266:PHE:HD1	22:O:269:LEU:HD12	1.62	0.64
23:P:113:ASN:HA	23:P:116:ILE:HB	1.79	0.64
27:T:266:TYR:O	27:T:270:ILE:N	2.30	0.64
33:Z:307:HIS:NE2	33:Z:339:PHE:O	2.31	0.64
33:Z:987:PRO:HA	33:Z:990:ARG:HB3	1.78	0.64
10:c:51:LYS:HG2	10:c:52:VAL:HG23	1.79	0.64
2:2:80:ASP:OD1	2:2:81:ASN:N	2.29	0.64
6:6:41:HIS:CD2	6:6:109:LYS:HD3	2.31	0.64
15:H:292:ARG:O	15:H:296:GLU:N	2.25	0.64
16:I:167:LEU:HD12	16:I:186:VAL:HG11	1.79	0.64
16:I:357:LYS:HB3	16:I:360:THR:HG21	1.79	0.64
16:I:399:SER:HA	16:I:437:GLN:HE21	1.63	0.64
17:J:337:LEU:H	25:R:204:TRP:CD1	2.15	0.64
19:L:77:ARG:HD3	20:M:16:ASP:HA	1.80	0.64
21:N:772:GLN:HA	21:N:869:ASP:HB2	1.78	0.64
22:O:15:ARG:N	22:O:16:MET:C	2.55	0.64
23:P:287:ASP:O	23:P:289:ASN:N	2.30	0.64
23:P:302:LEU:O	23:P:310:ARG:NH1	2.29	0.64
24:Q:219:ASP:HB2	24:Q:242:SER:HB3	1.78	0.64
25:R:334:ARG:O	25:R:337:VAL:CG1	2.45	0.64
26:S:205:ASN:ND2	27:T:44:LEU:O	2.29	0.64
27:T:89:TYR:CD1	27:T:102:LYS:HB3	2.32	0.64
33:Z:605:SER:C	33:Z:878:LEU:CD1	2.71	0.64
1:1:65:CYS:HA	1:1:88:LYS:HE2	1.80	0.64
2:9:42:THR:CG2	2:9:74:ARG:HH21	2.02	0.64
9:B:98:LYS:O	9:B:102:GLY:N	2.20	0.64
12:E:214:GLU:HG3	12:E:233:ASN:HB3	1.80	0.64
14:G:37:SER:HB3	14:G:50:VAL:HG23	1.80	0.64
17:J:366:GLY:O	17:J:370:LEU:N	2.21	0.64
18:K:99:PHE:HD1	18:K:110:VAL:HG12	1.61	0.64
18:K:353:PHE:HB3	18:K:368:LEU:HD22	1.79	0.64
20:M:411:LYS:HE2	20:M:413:GLU:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:4:THR:HA	26:S:208:ILE:HD13	1.79	0.64
21:N:668:THR:HB	21:N:675:VAL:HG21	1.78	0.64
22:O:333:SER:HA	23:P:305:THR:HG22	1.79	0.64
23:P:133:GLU:HA	23:P:136:ARG:CG	2.28	0.64
24:Q:404:ASN:ND2	25:R:393:PRO:HG2	2.12	0.64
25:R:383:ARG:H	26:S:402:ILE:HD12	1.61	0.64
33:Z:602:LEU:HG	33:Z:882:LEU:CD2	2.26	0.64
33:Z:881:ILE:O	33:Z:884:THR:N	2.29	0.64
33:Z:926:ASN:O	33:Z:993:GLU:HG3	1.97	0.64
8:a:41:ASN:HA	8:a:172:GLY:HA3	1.79	0.64
8:a:55:SER:O	8:a:224:GLU:N	2.25	0.64
11:d:89:ALA:HB1	11:d:109:LEU:HD11	1.79	0.64
6:k:68:SER:O	6:k:72:ASP:N	2.31	0.64
2:2:160:LEU:HG	2:2:175:LEU:HD12	1.79	0.64
6:6:68:SER:O	6:6:72:ASP:N	2.31	0.64
13:F:67:ASP:N	13:F:70:MET:O	2.30	0.64
15:H:167:ASP:HB3	15:H:174:VAL:HG21	1.79	0.64
15:H:182:ASN:HB3	15:H:185:LEU:HD11	1.79	0.64
16:I:157:VAL:HG23	16:I:183:ILE:HG13	1.78	0.64
16:I:251:ALA:HB1	17:J:306:ARG:NH1	2.13	0.64
17:J:134:VAL:HG12	17:J:135:SER:H	1.62	0.64
17:J:228:ARG:NH1	17:J:232:GLU:OE2	2.31	0.64
18:K:106:ASN:HA	18:K:122:ILE:HG12	1.79	0.64
18:K:252:ARG:HG3	18:K:255:ARG:NH2	2.11	0.64
20:M:244:LEU:HD23	20:M:278:ILE:HG23	1.79	0.64
23:P:254:GLU:O	23:P:258:LYS:N	2.31	0.64
24:Q:19:GLN:NE2	24:Q:21:ASN:HB3	2.13	0.64
25:R:369:GLY:CA	25:R:372:ILE:HD12	2.28	0.64
26:S:411:LEU:C	26:S:414:ASP:H	2.04	0.64
31:X:85:ARG:HB2	31:X:117:LYS:H	1.60	0.64
33:Z:217:GLU:HA	33:Z:217:GLU:OE1	1.97	0.64
8:a:206:ALA:O	8:a:210:MET:N	2.23	0.64
9:b:119:GLN:HE22	10:c:83:ASP:HA	1.60	0.64
1:1:208:THR:OG1	4:4:225:ARG:NH2	2.30	0.64
1:1:213:ARG:CZ	4:4:58:LYS:HG3	2.27	0.64
3:3:196:VAL:HB	3:3:203:GLU:HB3	1.80	0.64
4:4:245:SER:O	5:5:197:LYS:N	2.27	0.64
8:A:206:ALA:O	8:A:210:MET:N	2.23	0.64
8:A:243:GLU:CD	8:A:244:ARG:HH12	2.06	0.64
11:D:89:ALA:HB1	11:D:109:LEU:HD11	1.79	0.64
15:H:277:SER:OG	15:H:310:GLU:OE1	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:288:PRO:HG2	16:I:331:ARG:NH1	2.11	0.64
18:K:326:PRO:O	18:K:330:ARG:N	2.31	0.64
19:L:254:LYS:HG3	19:L:256:ILE:CD1	2.22	0.64
19:L:283:VAL:HG12	19:L:287:GLY:HA3	1.80	0.64
21:N:167:GLU:HG3	21:N:213:PHE:CZ	2.32	0.64
22:O:216:ASP:O	22:O:220:SER:N	2.29	0.64
22:O:309:SER:OG	22:O:348:VAL:O	2.13	0.64
23:P:80:THR:HG22	23:P:84:LYS:HE3	1.79	0.64
23:P:168:TYR:HD1	23:P:171:MET:HB3	1.63	0.64
23:P:247:THR:O	23:P:251:LYS:N	2.24	0.64
25:R:264:THR:HA	25:R:267:LYS:HE2	1.79	0.64
25:R:315:VAL:C	25:R:318:PRO:HD2	2.23	0.64
27:T:27:LEU:HB2	27:T:28:PRO:HD3	1.80	0.64
27:T:51:TYR:HA	27:T:55:LEU:HB3	1.77	0.64
27:T:252:GLU:CG	27:T:256:LYS:HB2	2.27	0.64
27:T:256:LYS:O	27:T:260:ILE:HG13	1.96	0.64
28:U:50:ASN:OD1	28:U:51:SER:N	2.27	0.64
30:W:114:VAL:N	30:W:142:ILE:O	2.30	0.64
31:X:13:GLY:HA3	31:X:29:VAL:O	1.96	0.64
33:Z:305:VAL:HG22	33:Z:308:LYS:HD2	1.80	0.64
33:Z:390:LEU:HD11	33:Z:859:LYS:HD3	1.79	0.64
9:b:225:THR:N	4:i:213:ALA:O	2.28	0.64
13:f:38:LEU:HA	13:f:158:GLY:HA2	1.80	0.64
13:f:111:LEU:O	13:f:115:LYS:N	2.30	0.64
3:h:118:VAL:O	3:h:130:TYR:N	2.26	0.64
7:l:191:ASP:OD1	7:l:195:THR:N	2.21	0.64
3:3:85:TYR:O	3:3:89:TYR:N	2.28	0.64
11:D:187:THR:HB	11:D:190:GLU:HG2	1.80	0.64
15:H:228:PRO:HB3	15:H:235:PHE:HE2	1.61	0.64
15:H:282:LYS:HE3	17:J:223:ILE:N	2.11	0.64
18:K:342:SER:H	18:K:344:ARG:NH1	1.96	0.64
19:L:108:VAL:O	19:L:143:GLY:N	2.31	0.64
21:N:295:THR:O	21:N:299:TYR:N	2.20	0.64
22:O:79:VAL:HA	22:O:83:LEU:HB2	1.78	0.64
22:O:310:PHE:O	22:O:314:SER:N	2.31	0.64
23:P:238:ALA:HB2	23:P:267:PHE:HB2	1.79	0.64
23:P:299:LEU:HA	23:P:302:LEU:HB2	1.80	0.64
24:Q:247:HIS:ND1	24:Q:289:GLU:HG2	2.13	0.64
25:R:128:LEU:O	25:R:132:GLN:N	2.30	0.64
26:S:330:LEU:HD13	26:S:342:LEU:HD21	1.77	0.64
28:U:20:ASP:O	28:U:24:ARG:N	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:216:GLY:CA	33:Z:217:GLU:HG2	2.23	0.64
33:Z:361:HIS:ND1	33:Z:961:GLU:HB3	2.12	0.64
33:Z:585:LEU:HD11	33:Z:600:GLU:O	1.98	0.64
8:a:242:GLU:HA	8:a:245:LEU:HB2	1.80	0.64
11:d:43:VAL:HG22	11:d:214:VAL:HG22	1.80	0.64
11:d:70:HIS:HA	11:d:219:SER:HA	1.79	0.64
13:f:13:PHE:N	14:g:23:GLN:HE22	1.96	0.64
2:9:153:GLN:N	2:9:157:ASP:O	2.23	0.64
15:H:434:ARG:HB3	33:Z:929:VAL:HG21	1.79	0.64
16:I:130:PRO:HB2	17:J:96:VAL:HG12	1.78	0.64
16:I:281:GLN:HG3	17:J:224:GLY:N	2.12	0.64
19:L:123:SER:HB2	20:M:125:GLN:HG2	1.78	0.64
19:L:300:GLU:CA	19:L:303:ARG:HH12	2.10	0.64
23:P:393:VAL:CG2	24:Q:352:GLU:H	1.98	0.64
24:Q:404:ASN:CG	25:R:393:PRO:HG2	2.23	0.64
25:R:148:ASP:OD1	25:R:148:ASP:N	2.29	0.64
26:S:359:LYS:O	26:S:362:SER:OG	2.16	0.64
28:U:171:VAL:HG22	29:V:213:LEU:HD21	1.79	0.64
29:V:267:LYS:NZ	29:V:273:ARG:HA	2.12	0.64
33:Z:216:GLY:HA2	33:Z:217:GLU:CB	2.23	0.64
33:Z:564:ARG:CG	33:Z:594:PRO:CB	2.68	0.64
3:h:27:PHE:N	3:h:30:GLY:O	2.21	0.64
7:l:233:LYS:HD2	7:l:252:LEU:HD11	1.77	0.64
1:1:75:GLY:HA3	1:1:126:VAL:HA	1.78	0.64
2:2:135:GLN:O	2:2:139:LYS:N	2.30	0.64
7:7:256:THR:N	7:7:259:GLY:O	2.29	0.64
2:9:160:LEU:HG	2:9:175:LEU:HD12	1.79	0.64
8:A:41:ASN:HA	8:A:172:GLY:HA3	1.79	0.64
9:B:14:PRO:HA	10:C:24:TYR:CE1	2.33	0.64
11:D:68:ASP:OD1	11:D:69:SER:N	2.31	0.64
11:D:70:HIS:HA	11:D:219:SER:HA	1.79	0.64
13:F:14:SER:H	13:F:18:ARG:H	1.44	0.64
15:H:105:ILE:HB	15:H:144:LYS:HA	1.78	0.64
16:I:398:LEU:HD13	16:I:402:VAL:HB	1.79	0.64
18:K:326:PRO:HA	18:K:329:LEU:HB2	1.79	0.64
19:L:76:GLN:O	19:L:80:ASN:N	2.22	0.64
19:L:278:ILE:O	19:L:324:ILE:N	2.23	0.64
20:M:189:GLN:O	20:M:193:LEU:N	2.23	0.64
21:N:880:ARG:HA	21:N:896:PHE:HE2	1.63	0.64
22:O:147:ARG:HA	22:O:150:LEU:HB3	1.79	0.64
22:O:310:PHE:CZ	22:O:341:ILE:HG23	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:235:LEU:HD21	23:P:274:GLY:HA3	1.80	0.64
23:P:396:PRO:HD3	24:Q:357:VAL:HG12	1.79	0.64
24:Q:151:TYR:O	24:Q:155:LEU:N	2.27	0.64
24:Q:302:VAL:O	24:Q:306:TYR:N	2.28	0.64
25:R:74:ASN:O	25:R:87:SER:OG	2.16	0.64
26:S:257:LEU:HB2	26:S:260:PRO:HD3	1.80	0.64
26:S:268:LEU:HD23	26:S:271:ARG:HD3	1.80	0.64
31:X:26:PRO:O	31:X:100:TRP:NE1	2.30	0.64
31:X:30:GLN:H	31:X:56:PRO:HA	1.63	0.64
33:Z:269:TYR:O	33:Z:276:ASN:OD1	2.15	0.64
33:Z:326:VAL:O	33:Z:331:GLY:N	2.27	0.64
8:a:243:GLU:CD	8:a:244:ARG:HH12	2.06	0.64
11:d:70:HIS:CE1	11:d:103:PRO:HB2	2.31	0.64
14:g:136:THR:O	14:g:150:MET:HA	1.98	0.64
3:h:18:LEU:HD11	3:h:68:ALA:HA	1.79	0.64
3:h:194:MET:HB2	3:h:205:LEU:HB2	1.79	0.64
2:2:136:ARG:HB3	2:2:142:PRO:HA	1.78	0.64
3:3:194:MET:HB2	3:3:205:LEU:HB2	1.79	0.64
2:9:34:THR:N	2:9:141:ASN:HA	2.13	0.64
15:H:340:LEU:O	15:H:346:ARG:NH1	2.30	0.64
16:I:281:GLN:HG3	17:J:223:ILE:CA	2.14	0.64
17:J:299:ILE:HG13	17:J:300:LEU:HG	1.80	0.64
17:J:308:GLY:N	17:J:311:ASP:OD1	2.29	0.64
21:N:306:ASN:ND2	21:N:871:MET:SD	2.71	0.64
21:N:420:THR:HG23	21:N:450:ILE:HA	1.78	0.64
21:N:614:ASN:HD21	21:N:616:HIS:HB2	1.63	0.64
22:O:234:LEU:HD13	22:O:255:LEU:HD22	1.78	0.64
22:O:236:HIS:O	22:O:238:ILE:N	2.30	0.64
22:O:331:ALA:O	22:O:334:LEU:HB2	1.98	0.64
22:O:338:LYS:HZ2	22:O:353:VAL:HB	1.63	0.64
23:P:109:SER:H	23:P:112:LEU:HG	1.63	0.64
23:P:115:ARG:O	23:P:119:ILE:HG12	1.98	0.64
23:P:141:LYS:HA	23:P:144:VAL:HB	1.79	0.64
25:R:79:LEU:HD23	25:R:95:ASP:HA	1.80	0.64
25:R:286:LEU:HD22	25:R:289:ILE:HD13	1.80	0.64
25:R:334:ARG:NH2	25:R:367:ASP:CB	2.55	0.64
26:S:234:ILE:HG22	26:S:238:LEU:HG	1.78	0.64
27:T:136:LEU:HD12	27:T:142:LEU:HB3	1.80	0.64
29:V:58:VAL:H	29:V:62:THR:HB	1.63	0.64
33:Z:414:GLY:HA2	33:Z:417:SER:HB2	1.80	0.64
8:a:32:PHE:O	8:a:35:THR:OG1	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:226:TYR:CE2	10:c:228:LYS:HB2	2.33	0.64
7:7:152:ALA:O	7:7:196:ARG:NH2	2.30	0.64
12:E:165:TYR:CE2	13:F:60:GLN:HB2	2.33	0.64
14:G:136:THR:O	14:G:150:MET:HA	1.98	0.64
16:I:405:GLU:HA	16:I:408:VAL:HB	1.79	0.64
18:K:100:LEU:HB2	18:K:109:ILE:HG23	1.80	0.64
18:K:182:GLN:O	18:K:186:GLU:N	2.22	0.64
21:N:13:LEU:HD11	21:N:49:LEU:HD11	1.79	0.64
21:N:774:ASN:H	21:N:869:ASP:CG	2.03	0.64
24:Q:74:LEU:O	24:Q:78:ILE:N	2.31	0.64
24:Q:162:LEU:O	24:Q:166:LYS:N	2.31	0.64
25:R:110:ILE:O	25:R:113:LEU:HG	1.98	0.64
26:S:15:VAL:HG13	26:S:18:LEU:HD12	1.80	0.64
26:S:298:ARG:N	26:S:299:LYS:HB3	2.13	0.64
26:S:360:PHE:HZ	26:S:380:CYS:HB3	1.63	0.64
27:T:9:LYS:O	27:T:13:ILE:N	2.30	0.64
27:T:50:ILE:HG13	27:T:51:TYR:H	1.63	0.64
27:T:168:SER:HA	27:T:171:ILE:HB	1.80	0.64
29:V:186:GLN:HB3	29:V:190:HIS:HD2	1.62	0.64
31:X:17:TYR:HA	31:X:98:PHE:H	1.63	0.64
33:Z:747:ALA:HB2	33:Z:761:PHE:CE1	2.32	0.64
8:a:112:MET:HE3	8:a:117:LEU:HB2	1.79	0.64
10:c:64:GLU:HG3	10:c:65:LYS:HG3	1.78	0.64
13:f:67:ASP:N	13:f:70:MET:O	2.30	0.64
7:l:84:GLN:N	7:l:221:TRP:O	2.26	0.64
1:1:46:THR:O	1:1:59:GLU:N	2.30	0.63
2:2:127:GLU:HG3	13:f:98:VAL:O	1.98	0.63
15:H:264:ALA:HB1	15:H:271:PHE:HB2	1.79	0.63
17:J:39:GLU:O	17:J:42:ARG:N	2.31	0.63
21:N:344:THR:OG1	21:N:378:ASN:ND2	2.30	0.63
21:N:601:THR:O	21:N:605:ILE:N	2.19	0.63
21:N:623:PHE:O	21:N:627:ILE:N	2.29	0.63
22:O:356:ARG:C	22:O:357:ILE:HG12	2.23	0.63
23:P:144:VAL:HG13	23:P:156:ALA:HB1	1.79	0.63
23:P:283:LYS:HB2	23:P:286:ASN:HB2	1.80	0.63
24:Q:62:GLY:O	24:Q:66:VAL:N	2.26	0.63
25:R:90:GLU:HG3	25:R:91:TRP:CD1	2.33	0.63
25:R:110:ILE:HG22	25:R:114:ASN:ND2	2.13	0.63
25:R:263:ARG:CZ	25:R:267:LYS:HD3	2.28	0.63
26:S:246:GLU:HG3	27:T:124:SER:HB3	1.80	0.63
30:W:9:VAL:HB	30:W:112:ALA:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:161:VAL:HG12	30:W:168:THR:HB	1.79	0.63
33:Z:605:SER:CA	33:Z:878:LEU:CG	2.65	0.63
3:h:76:ASP:HA	3:h:79:GLN:HB3	1.80	0.63
4:i:37:PHE:HB3	4:i:180:ALA:HB2	1.80	0.63
2:2:67:LEU:HD11	3:3:186:GLY:HA2	1.79	0.63
7:7:137:GLN:O	7:7:141:HIS:N	2.21	0.63
8:A:32:PHE:O	8:A:35:THR:OG1	2.11	0.63
8:A:102:ALA:O	8:A:106:TYR:N	2.23	0.63
9:B:33:THR:HG1	9:B:167:GLY:H	1.45	0.63
14:G:130:ARG:O	14:G:131:PRO:C	2.41	0.63
15:H:255:GLY:O	15:H:259:CYS:N	2.27	0.63
16:I:389:LEU:HD23	16:I:419:ILE:HG23	1.80	0.63
17:J:78:ILE:HG22	17:J:84:VAL:HG23	1.80	0.63
19:L:407:ARG:HB3	19:L:409:HIS:O	1.98	0.63
20:M:190:ILE:HA	20:M:193:LEU:HD12	1.79	0.63
21:N:284:PRO:O	21:N:288:ASN:N	2.31	0.63
22:O:83:LEU:HD11	22:O:102:LEU:CG	2.28	0.63
22:O:366:MET:HE2	28:U:233:PHE:CE2	2.34	0.63
23:P:337:HIS:O	23:P:341:LEU:N	2.19	0.63
24:Q:363:SER:O	24:Q:367:GLY:N	2.31	0.63
25:R:148:ASP:O	25:R:149:ASN:C	2.41	0.63
27:T:122:PHE:HZ	27:T:145:PRO:HB2	1.62	0.63
28:U:39:GLY:HA2	28:U:49:THR:HG23	1.79	0.63
30:W:98:LEU:HD13	30:W:108:GLN:HB3	1.79	0.63
31:X:14:VAL:O	31:X:29:VAL:HG21	1.98	0.63
33:Z:357:ILE:HD13	33:Z:959:HIS:NE2	2.13	0.63
33:Z:563:VAL:HG12	33:Z:595:MET:H	1.63	0.63
33:Z:917:ASN:HB2	33:Z:925:VAL:HB	1.79	0.63
12:e:15:PHE:N	13:f:21:GLN:OE1	2.27	0.63
2:2:235:LYS:HG3	2:2:236:ASN:OD1	1.99	0.63
8:A:55:SER:O	8:A:224:GLU:N	2.25	0.63
8:A:96:ARG:HH21	8:A:124:LEU:HD21	1.62	0.63
10:C:226:TYR:CE2	10:C:228:LYS:HB2	2.33	0.63
11:D:213:THR:HA	11:D:223:ALA:HA	1.80	0.63
12:E:16:SER:OG	12:E:20:ARG:N	2.31	0.63
16:I:217:GLN:NE2	16:I:376:LEU:O	2.30	0.63
16:I:227:LEU:HB3	16:I:228:PRO:HD3	1.81	0.63
16:I:287:GLY:N	17:J:223:ILE:HG21	2.13	0.63
18:K:128:ARG:NH1	29:V:272:GLY:O	2.31	0.63
19:L:120:LYS:HA	19:L:126:ARG:HA	1.80	0.63
21:N:170:LEU:O	21:N:174:LEU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:738:GLN:O	21:N:745:LEU:HD12	1.98	0.63
22:O:242:ILE:HG13	22:O:243:VAL:HG13	1.79	0.63
22:O:382:LYS:HB3	27:T:262:LYS:HZ1	1.63	0.63
23:P:117:SER:O	23:P:121:THR:HG23	1.98	0.63
24:Q:145:HIS:O	24:Q:149:LYS:N	2.31	0.63
24:Q:383:ASP:CB	24:Q:384:LYS:CB	2.69	0.63
25:R:33:LEU:HD12	25:R:43:ARG:O	1.98	0.63
26:S:251:SER:O	26:S:255:SER:N	2.29	0.63
26:S:369:GLN:O	26:S:373:LYS:N	2.25	0.63
27:T:98:GLU:HA	27:T:102:LYS:HZ3	1.63	0.63
30:W:15:TYR:HB2	30:W:115:CYS:HA	1.80	0.63
30:W:101:ARG:NE	30:W:106:GLN:O	2.24	0.63
31:X:48:PHE:CZ	31:X:68:LEU:HB2	2.33	0.63
12:e:14:THR:HG23	13:f:21:GLN:NE2	2.14	0.63
3:h:132:ILE:HG12	3:h:138:VAL:HG22	1.81	0.63
1:1:127:HIS:ND1	1:1:144:PHE:O	2.29	0.63
2:2:34:THR:N	2:2:141:ASN:HA	2.13	0.63
3:3:118:VAL:O	3:3:130:TYR:N	2.26	0.63
8:A:177:GLU:O	8:A:180:THR:OG1	2.12	0.63
8:A:242:GLU:HA	8:A:245:LEU:HB2	1.80	0.63
9:B:149:GLN:OE1	9:B:159:TRP:NE1	2.31	0.63
14:G:179:LEU:O	14:G:183:HIS:N	2.30	0.63
15:H:340:LEU:HB3	15:H:370:ARG:NH1	2.14	0.63
15:H:426:ALA:HA	15:H:429:PHE:HD2	1.62	0.63
16:I:254:THR:HG23	16:I:255:GLY:H	1.61	0.63
16:I:281:GLN:HB3	17:J:223:ILE:CG1	2.28	0.63
16:I:307:PHE:CE2	16:I:309:ASP:HB2	2.30	0.63
17:J:43:ARG:N	26:S:480:ARG:HH21	1.95	0.63
17:J:116:ARG:N	17:J:121:MET:O	2.31	0.63
17:J:252:SER:HB3	17:J:257:ARG:CZ	2.29	0.63
18:K:245:LYS:O	18:K:247:LEU:N	2.30	0.63
18:K:288:SER:OG	19:L:256:ILE:HG23	1.94	0.63
19:L:221:TYR:HA	19:L:327:THR:O	1.99	0.63
20:M:83:VAL:HG23	20:M:84:GLU:H	1.63	0.63
20:M:222:GLY:O	20:M:228:LYS:NZ	2.26	0.63
20:M:288:THR:HG22	20:M:290:ARG:H	1.62	0.63
21:N:161:TYR:HA	21:N:202:PHE:CE1	2.34	0.63
23:P:263:HIS:HA	23:P:266:TYR:HB3	1.80	0.63
23:P:403:GLU:CG	23:P:404:LYS:H	2.06	0.63
24:Q:23:ALA:O	24:Q:27:TYR:N	2.26	0.63
24:Q:62:GLY:HA2	24:Q:65:TYR:HD2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:143:THR:O	24:Q:147:GLN:N	2.24	0.63
24:Q:335:PHE:HA	24:Q:338:LEU:HB3	1.80	0.63
31:X:66:LEU:HD21	31:X:97:TYR:CG	2.33	0.63
33:Z:233:LEU:HD21	33:Z:253:VAL:HG13	1.80	0.63
33:Z:243:GLN:OE1	33:Z:244:ARG:HB2	1.99	0.63
9:b:24:ALA:O	9:b:28:VAL:N	2.24	0.63
10:c:27:GLU:O	10:c:30:SER:OG	2.07	0.63
11:d:18:PHE:HB3	11:d:22:TYR:CZ	2.34	0.63
14:g:70:VAL:N	14:g:74:ILE:O	2.25	0.63
7:l:140:LEU:HG	7:l:144:ARG:NH1	2.10	0.63
7:l:214:VAL:O	7:l:217:SER:OG	2.15	0.63
7:7:130:TRP:NE1	1:8:117:TYR:OH	2.29	0.63
9:B:119:GLN:NE2	10:C:83:ASP:HA	2.14	0.63
9:B:148:TYR:HE1	9:B:158:PRO:HB3	1.64	0.63
15:H:171:GLY:C	15:H:173:ARG:H	2.06	0.63
15:H:176:VAL:N	15:H:189:PRO:HG3	2.13	0.63
15:H:316:GLY:HA3	15:H:360:THR:O	1.97	0.63
17:J:26:LYS:HE3	18:K:48:TYR:HE1	1.63	0.63
19:L:113:SER:H	19:L:116:LYS:HB2	1.64	0.63
19:L:170:MET:HE1	19:L:269:TYR:CD2	2.34	0.63
19:L:282:GLU:O	20:M:303:ARG:NH2	2.32	0.63
20:M:226:THR:OG1	20:M:228:LYS:HG3	1.98	0.63
23:P:295:SER:O	23:P:299:LEU:N	2.26	0.63
23:P:325:ASP:N	23:P:337:HIS:HE1	1.95	0.63
25:R:369:GLY:CA	25:R:372:ILE:HD11	2.29	0.63
25:R:371:PHE:HB3	25:R:377:LEU:CG	2.28	0.63
26:S:230:LYS:HE2	26:S:256:LYS:HD3	1.80	0.63
27:T:139:ASP:O	27:T:143:SER:N	2.29	0.63
33:Z:784:SER:OG	33:Z:788:PRO:HB3	1.98	0.63
33:Z:832:ARG:O	33:Z:836:SER:N	2.29	0.63
14:g:179:LEU:O	14:g:183:HIS:N	2.30	0.63
14:g:179:LEU:HA	14:g:182:HIS:HB2	1.80	0.63
4:i:111:MET:O	4:i:115:HIS:N	2.20	0.63
5:j:44:PHE:N	5:j:51:LEU:O	2.27	0.63
3:3:194:MET:O	3:3:205:LEU:N	2.24	0.63
5:5:38:ASN:HD21	7:l:285:VAL:HA	1.64	0.63
12:E:15:PHE:CE2	13:F:126:ARG:HB2	2.34	0.63
14:G:170:GLN:CD	14:G:170:GLN:H	2.07	0.63
15:H:168:ILE:HD11	15:H:185:LEU:HB3	1.79	0.63
15:H:190:ARG:NH1	15:H:191:ILE:HG22	2.14	0.63
16:I:344:ASP:OD1	16:I:345:ASP:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:56:LYS:HD2	21:N:196:THR:HG22	1.80	0.63
19:L:318:LEU:HB3	19:L:322:LYS:HD3	1.81	0.63
21:N:593:PHE:HE1	21:N:627:ILE:HG21	1.62	0.63
22:O:45:LEU:HD23	22:O:48:PHE:HD2	1.64	0.63
23:P:111:ASP:HA	23:P:114:THR:HB	1.79	0.63
24:Q:109:ASP:CG	24:Q:114:GLN:HE21	2.05	0.63
24:Q:311:LEU:H	24:Q:346:ASN:CG	2.07	0.63
24:Q:386:PHE:HA	24:Q:387:TYR:HB2	1.81	0.63
27:T:266:TYR:HA	27:T:269:SER:HB2	1.81	0.63
29:V:163:ALA:HB2	29:V:184:ASN:HB3	1.81	0.63
32:Y:81:LEU:HA	32:Y:84:TYR:HB3	1.80	0.63
33:Z:765:MET:SD	33:Z:773:ARG:HA	2.39	0.63
33:Z:783:VAL:O	33:Z:787:ASP:C	2.42	0.63
9:b:43:VAL:HG23	9:b:145:PHE:HB3	1.81	0.63
9:b:218:ASN:ND2	9:b:233:PRO:O	2.31	0.63
11:d:94:GLN:HE22	6:k:65:GLN:HB2	1.64	0.63
11:d:138:PHE:HD2	11:d:217:PRO:HA	1.63	0.63
12:e:16:SER:OG	12:e:20:ARG:N	2.31	0.63
13:f:155:GLU:H	14:g:64:ASN:HD21	1.45	0.63
2:2:255:ALA:O	3:3:193:ARG:NH2	2.26	0.63
5:5:75:LYS:O	5:5:79:GLU:N	2.31	0.63
10:C:28:SER:HA	10:C:31:HIS:CD2	2.25	0.63
11:D:18:PHE:HB3	11:D:22:TYR:CZ	2.34	0.63
11:D:120:TYR:HA	11:D:123:SER:HB2	1.81	0.63
14:G:123:HIS:HA	14:G:129:VAL:HB	1.79	0.63
15:H:162:ARG:HB3	20:M:75:LEU:HD13	1.81	0.63
17:J:83:LYS:HA	17:J:97:ASP:HA	1.81	0.63
17:J:173:LEU:O	17:J:176:SER:OG	2.17	0.63
17:J:269:GLN:O	17:J:273:LEU:HG	1.98	0.63
19:L:170:MET:HG2	19:L:266:MET:HG2	1.79	0.63
20:M:226:THR:HA	20:M:388:GLY:H	1.62	0.63
21:N:207:LEU:O	21:N:210:SER:OG	2.13	0.63
21:N:592:GLY:HA2	21:N:595:LEU:HB2	1.81	0.63
22:O:83:LEU:HD21	22:O:102:LEU:HD22	0.63	0.63
24:Q:389:VAL:N	24:Q:397:LEU:HG	2.13	0.63
24:Q:423:VAL:HA	24:Q:426:LEU:HB2	1.81	0.63
25:R:310:GLU:O	25:R:314:ASN:ND2	2.31	0.63
25:R:329:PHE:CE1	25:R:333:MET:HG3	2.34	0.63
25:R:400:TYR:O	25:R:403:LEU:CB	2.47	0.63
26:S:293:ILE:O	26:S:299:LYS:NZ	2.32	0.63
26:S:422:MET:CB	26:S:425:ARG:HD3	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:461:PHE:CD2	28:U:277:TYR:HD2	2.16	0.63
29:V:88:GLN:O	29:V:92:MET:N	2.27	0.63
30:W:162:ASN:ND2	30:W:165:GLN:HA	2.14	0.63
33:Z:497:PHE:HA	33:Z:500:SER:HB2	1.79	0.63
33:Z:762:GLY:N	33:Z:789:GLN:NE2	2.47	0.63
8:a:65:ASP:N	14:g:159:GLY:O	2.26	0.63
10:c:15:PRO:HA	11:d:22:TYR:CD1	2.34	0.63
5:5:74:TYR:CZ	5:5:78:GLU:HG3	2.34	0.63
2:9:151:GLY:N	2:9:159:PHE:O	2.29	0.63
15:H:292:ARG:NH2	20:M:249:PRO:HB2	2.09	0.63
17:J:324:ARG:O	17:J:328:LEU:N	2.17	0.63
18:K:282:PHE:CE2	19:L:295:THR:HB	2.32	0.63
19:L:115:GLU:N	19:L:137:ARG:HH21	1.96	0.63
19:L:303:ARG:HH11	19:L:303:ARG:HB3	1.64	0.63
22:O:15:ARG:C	30:W:18:ASN:HD21	2.05	0.63
22:O:83:LEU:HD13	22:O:128:LEU:HD13	1.81	0.63
22:O:370:LEU:HB3	28:U:200:LEU:HD13	1.81	0.63
24:Q:97:LEU:HD21	24:Q:121:SER:HB3	1.80	0.63
24:Q:243:PHE:O	24:Q:247:HIS:N	2.23	0.63
25:R:259:PHE:CE1	25:R:332:GLU:HB2	2.33	0.63
26:S:19:HIS:HA	26:S:22:GLU:O	1.98	0.63
26:S:291:GLU:O	26:S:295:ALA:N	2.31	0.63
33:Z:601:VAL:HG13	33:Z:620:LEU:CD1	2.29	0.63
9:b:149:GLN:OE1	9:b:159:TRP:NE1	2.31	0.63
12:e:66:LYS:HA	12:e:78:MET:HE3	1.81	0.63
5:5:91:VAL:HB	5:5:124:PHE:HE2	1.64	0.63
5:5:143:SER:HA	5:5:146:LEU:HD12	1.80	0.63
7:7:130:TRP:O	7:7:134:LEU:N	2.25	0.63
9:B:43:VAL:HG23	9:B:145:PHE:HB3	1.81	0.63
12:E:66:LYS:HA	12:E:78:MET:HE3	1.81	0.63
16:I:407:LEU:HD11	16:I:443:PHE:CD2	2.33	0.63
17:J:333:ARG:HG3	25:R:203:ASP:OD2	1.98	0.63
18:K:344:ARG:HD2	18:K:378:LEU:C	2.24	0.63
18:K:404:GLN:HG3	18:K:408:GLU:HG2	1.79	0.63
20:M:148:VAL:HA	20:M:155:ILE:HA	1.80	0.63
20:M:189:GLN:HE21	20:M:348:GLU:HG3	1.62	0.63
21:N:495:PRO:HA	21:N:498:ILE:HD12	1.81	0.63
22:O:341:ILE:O	23:P:358:SER:N	2.30	0.63
25:R:35:GLN:OE1	25:R:323:ASN:ND2	2.32	0.63
26:S:179:ILE:HG13	26:S:184:TRP:CZ2	2.34	0.63
27:T:145:PRO:O	27:T:149:ASP:N	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:191:LYS:O	27:T:195:LEU:N	2.27	0.63
28:U:295:LYS:O	28:U:299:LYS:N	2.22	0.63
33:Z:388:GLY:HA2	33:Z:425:ILE:HG13	1.81	0.63
33:Z:914:LEU:HB3	33:Z:980:VAL:HG22	1.81	0.63
11:d:187:THR:HB	11:d:190:GLU:HG2	1.80	0.63
7:l:141:HIS:HA	7:l:144:ARG:NH2	2.14	0.63
1:1:30:THR:HA	1:1:74:ASN:ND2	2.14	0.62
5:5:203:ARG:NH2	5:5:205:ASP:OD2	2.28	0.62
1:8:21:PHE:CZ	2:9:137:ARG:HG3	2.29	0.62
1:8:167:PRO:HG3	5:j:177:ARG:HG2	1.81	0.62
2:9:230:LEU:O	2:9:242:LYS:N	2.28	0.62
2:9:232:ILE:O	2:9:240:THR:N	2.26	0.62
9:B:97:TYR:CE2	9:B:103:GLU:HG3	2.34	0.62
13:F:38:LEU:HA	13:F:158:GLY:HA2	1.80	0.62
13:F:80:ASP:OD2	13:F:129:GLY:N	2.21	0.62
15:H:97:LEU:O	15:H:99:VAL:N	2.32	0.62
16:I:133:ILE:HD11	17:J:85:LEU:HG	1.81	0.62
16:I:251:ALA:HB1	17:J:306:ARG:HH12	1.64	0.62
18:K:290:ARG:O	18:K:293:GLN:HB2	1.99	0.62
20:M:411:LYS:HG2	20:M:414:ASP:CG	2.24	0.62
21:N:17:GLN:O	21:N:20:VAL:N	2.31	0.62
21:N:176:GLN:O	21:N:177:ASP:OD1	2.17	0.62
21:N:375:HIS:HB2	21:N:411:ILE:HD11	1.80	0.62
21:N:650:ASP:OD1	21:N:653:ARG:NH1	2.32	0.62
22:O:324:VAL:HG13	22:O:328:VAL:HB	1.81	0.62
24:Q:408:THR:HA	29:V:255:ILE:CD1	2.28	0.62
25:R:189:GLU:O	25:R:193:ALA:N	2.23	0.62
25:R:284:ALA:O	25:R:287:GLN:HG3	1.99	0.62
31:X:34:GLU:N	31:X:49:GLU:O	2.32	0.62
33:Z:357:ILE:O	33:Z:360:SER:OG	2.14	0.62
12:e:177:GLU:OE1	12:e:177:GLU:N	2.24	0.62
12:e:237:ALA:HA	12:e:240:ILE:HD12	1.81	0.62
14:g:178:LYS:O	14:g:182:HIS:N	2.29	0.62
5:j:75:LYS:O	5:j:79:GLU:N	2.31	0.62
4:4:178:GLU:H	4:4:178:GLU:CD	2.06	0.62
8:A:112:MET:HE3	8:A:117:LEU:HB2	1.79	0.62
14:G:179:LEU:HA	14:G:182:HIS:HB2	1.80	0.62
14:G:194:LYS:HB3	14:G:242:PHE:CE2	2.34	0.62
15:H:145:TYR:CE1	20:M:75:LEU:HD12	2.35	0.62
17:J:86:VAL:O	17:J:94:TYR:N	2.31	0.62
18:K:281:ARG:HG3	18:K:289:ASP:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:346:ARG:O	18:K:372:ILE:HD11	1.99	0.62
19:L:236:ALA:HB1	19:L:243:PHE:HB2	1.80	0.62
21:N:337:GLY:O	21:N:341:ALA:N	2.32	0.62
21:N:399:PHE:CE1	21:N:438:ASP:HA	2.32	0.62
22:O:173:SER:O	22:O:176:SER:OG	2.14	0.62
24:Q:14:LEU:O	24:Q:19:GLN:N	2.31	0.62
25:R:147:LYS:NZ	25:R:186:TYR:HE2	1.94	0.62
25:R:350:LEU:O	25:R:354:ALA:N	2.19	0.62
28:U:189:ARG:NH2	29:V:296:LEU:HD23	2.13	0.62
31:X:75:TRP:HH2	31:X:87:PHE:HA	1.62	0.62
33:Z:307:HIS:CD2	33:Z:340:LEU:HB2	2.33	0.62
33:Z:361:HIS:CA	33:Z:364:ASN:HB2	2.29	0.62
33:Z:616:LEU:HB3	33:Z:746:ILE:CG2	2.28	0.62
33:Z:801:HIS:HD2	33:Z:808:SER:HB2	1.64	0.62
8:a:21:PRO:HA	9:b:23:TYR:CD1	2.33	0.62
3:h:196:VAL:HB	3:h:203:GLU:HB3	1.80	0.62
5:j:74:TYR:CZ	5:j:78:GLU:HG3	2.34	0.62
1:1:106:ASN:OD1	1:1:107:SER:N	2.32	0.62
4:4:77:THR:HG22	4:4:80:ASP:H	1.64	0.62
6:6:66:LEU:HB2	11:D:94:GLN:HG3	1.80	0.62
7:7:84:GLN:HB2	7:7:222:ASP:HA	1.82	0.62
2:9:135:GLN:O	2:9:139:LYS:N	2.30	0.62
2:9:235:LYS:HG3	2:9:236:ASN:OD1	1.98	0.62
8:A:41:ASN:N	8:A:56:GLN:OE1	2.25	0.62
14:G:12:ASN:ND2	14:G:129:VAL:HG23	2.14	0.62
14:G:42:CYS:N	14:G:45:GLY:O	2.32	0.62
14:G:68:GLN:NE2	14:G:86:ARG:HG2	2.12	0.62
17:J:238:ARG:CZ	17:J:283:GLU:HG3	2.29	0.62
18:K:135:MET:HA	18:K:259:ARG:HH12	1.62	0.62
18:K:275:ASP:OD1	19:L:306:MET:HE1	1.99	0.62
19:L:224:PRO:HG2	20:M:342:ARG:NH1	2.14	0.62
21:N:318:LYS:NZ	21:N:348:PHE:HB2	2.14	0.62
21:N:761:ILE:HG21	21:N:904:VAL:HG22	1.81	0.62
22:O:315:LYS:HD3	22:O:321:LYS:HB2	1.81	0.62
23:P:276:LEU:O	23:P:280:LEU:HG	1.99	0.62
24:Q:71:LYS:HG3	24:Q:104:PHE:CD2	2.34	0.62
25:R:62:TYR:CE2	25:R:66:LEU:HB2	2.34	0.62
25:R:176:ARG:HG3	25:R:243:LEU:HD11	1.80	0.62
26:S:166:ASN:O	26:S:171:TYR:OH	2.17	0.62
26:S:411:LEU:O	26:S:414:ASP:N	2.31	0.62
28:U:7:LYS:HB3	28:U:157:LEU:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:53:MET:HG2	29:V:68:VAL:HG23	1.82	0.62
29:V:252:SER:HA	29:V:255:ILE:HB	1.79	0.62
31:X:13:GLY:HA2	31:X:50:TRP:HE1	1.64	0.62
33:Z:357:ILE:O	33:Z:360:SER:CB	2.47	0.62
33:Z:386:VAL:HA	33:Z:389:PHE:HB2	1.82	0.62
33:Z:512:ILE:HG23	33:Z:521:GLU:HB3	1.81	0.62
33:Z:584:VAL:HG13	33:Z:603:VAL:HG12	1.77	0.62
33:Z:852:GLN:HA	33:Z:855:LEU:HB3	1.81	0.62
33:Z:985:LYS:HB3	33:Z:991:GLU:H	1.64	0.62
8:a:63:LEU:O	14:g:161:LYS:N	2.32	0.62
14:g:194:LYS:HB3	14:g:242:PHE:CE2	2.34	0.62
2:2:37:PRO:HD3	2:2:144:TRP:CE2	2.34	0.62
4:4:37:PHE:HB3	4:4:180:ALA:HB2	1.80	0.62
2:9:231:ALA:HB2	2:9:241:PHE:HD1	1.64	0.62
9:B:218:ASN:ND2	9:B:233:PRO:O	2.31	0.62
12:E:70:ILE:H	12:E:75:GLY:HA2	1.65	0.62
15:H:156:VAL:O	20:M:76:PRO:HB3	1.98	0.62
15:H:376:GLU:O	15:H:377:PHE:O	2.16	0.62
15:H:382:LEU:HD22	15:H:409:ARG:HA	1.81	0.62
16:I:249:TYR:CG	16:I:250:GLY:N	2.64	0.62
16:I:337:LEU:HD13	16:I:365:LEU:HA	1.81	0.62
17:J:25:GLN:OE1	21:N:96:GLN:NE2	2.25	0.62
17:J:225:GLU:OE1	17:J:228:ARG:NH2	2.31	0.62
18:K:271:ILE:HB	18:K:316:MET:HG2	1.81	0.62
19:L:105:ILE:HG21	19:L:145:ARG:HH11	1.64	0.62
19:L:420:ARG:NH1	14:g:177:GLU:OE1	2.32	0.62
20:M:32:THR:HA	20:M:35:LYS:HD2	1.81	0.62
20:M:310:ASN:HA	20:M:313:ASP:HB3	1.81	0.62
21:N:11:ALA:HB2	27:T:83:ASN:HB2	1.81	0.62
21:N:352:ASN:HB3	21:N:355:TRP:HB2	1.81	0.62
24:Q:47:ASP:HB2	24:Q:50:ARG:HB3	1.81	0.62
24:Q:418:GLN:HG3	29:V:262:THR:HG22	1.80	0.62
25:R:251:THR:O	25:R:254:SER:OG	2.17	0.62
25:R:377:LEU:HB3	25:R:379:CYS:HB3	1.81	0.62
25:R:400:TYR:CE2	26:S:457:PRO:CB	2.81	0.62
26:S:145:PHE:HB2	26:S:147:TRP:HD1	1.64	0.62
26:S:475:TYR:CE2	28:U:288:PHE:HA	2.34	0.62
30:W:130:LYS:HB3	30:W:134:LYS:HE3	1.80	0.62
30:W:180:LEU:HB2	30:W:183:GLU:HB3	1.80	0.62
33:Z:882:LEU:HD12	33:Z:885:ALA:HB3	1.80	0.62
2:2:153:GLN:N	2:2:157:ASP:O	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:97:LEU:HB3	9:B:90:ARG:NH1	2.15	0.62
1:8:65:CYS:HA	1:8:88:LYS:HE2	1.80	0.62
2:9:37:PRO:HD3	2:9:144:TRP:CE2	2.34	0.62
8:A:204:GLU:HG3	8:A:244:ARG:HD2	1.81	0.62
9:B:94:HIS:O	9:B:99:ARG:N	2.22	0.62
11:D:118:GLN:O	11:D:121:THR:OG1	2.11	0.62
13:F:168:ALA:HA	13:F:171:TYR:HB3	1.81	0.62
14:G:8:TYR:CG	14:G:17:PRO:HD3	2.35	0.62
17:J:114:CYS:SG	17:J:126:LEU:HD21	2.39	0.62
18:K:123:LEU:HB3	18:K:125:THR:HB	1.80	0.62
21:N:28:ILE:O	21:N:32:VAL:N	2.31	0.62
22:O:167:ILE:HG23	22:O:168:THR:H	1.65	0.62
23:P:179:PHE:O	23:P:183:GLN:N	2.20	0.62
23:P:348:HIS:ND1	23:P:351:ARG:HD2	2.14	0.62
23:P:416:SER:O	23:P:420:ASP:N	2.29	0.62
24:Q:178:HIS:HB2	24:Q:201:ALA:HB2	1.80	0.62
24:Q:380:MET:HG3	24:Q:385:ILE:O	2.00	0.62
33:Z:241:THR:HG22	33:Z:242:PHE:N	2.13	0.62
9:b:148:TYR:HE1	9:b:158:PRO:HB3	1.64	0.62
11:d:213:THR:HA	11:d:223:ALA:HA	1.80	0.62
12:e:214:GLU:HG3	12:e:233:ASN:HB3	1.80	0.62
13:f:168:ALA:HA	13:f:171:TYR:HB3	1.80	0.62
7:l:113:ASN:O	7:l:260:TRP:NE1	2.33	0.62
7:l:152:ALA:O	7:l:196:ARG:NH2	2.30	0.62
3:3:76:ASP:HA	3:3:79:GLN:HB3	1.80	0.62
3:3:122:ASP:OD2	3:3:125:ASN:ND2	2.33	0.62
5:5:39:LYS:HE3	7:l:286:ILE:HD11	1.82	0.62
11:D:34:VAL:HA	11:D:163:THR:HA	1.82	0.62
12:E:122:ARG:HA	12:E:132:ARG:HE	1.65	0.62
15:H:235:PHE:O	15:H:240:ILE:N	2.22	0.62
16:I:404:LEU:O	16:I:408:VAL:N	2.25	0.62
19:L:318:LEU:HB3	19:L:321:THR:O	1.98	0.62
20:M:381:ARG:HE	13:f:166:GLN:NE2	1.98	0.62
21:N:381:GLU:O	21:N:385:VAL:N	2.27	0.62
23:P:42:LEU:HA	23:P:45:LYS:HB3	1.81	0.62
23:P:396:PRO:CD	24:Q:357:VAL:HA	2.29	0.62
24:Q:218:LEU:O	24:Q:222:SER:N	2.28	0.62
25:R:259:PHE:O	25:R:333:MET:HE1	1.99	0.62
26:S:155:LEU:HD23	26:S:158:PHE:CD2	2.34	0.62
26:S:410:LYS:O	26:S:413:LEU:HB3	1.98	0.62
28:U:141:GLU:H	28:U:153:THR:CA	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Y:65:ASP:H	32:Y:67:VAL:H	1.47	0.62
33:Z:208:VAL:HG12	33:Z:236:PHE:CZ	2.35	0.62
33:Z:266:LYS:HA	33:Z:269:TYR:CD2	2.34	0.62
33:Z:298:PHE:HE1	33:Z:307:HIS:HE1	1.47	0.62
33:Z:985:LYS:HG2	33:Z:991:GLU:HG2	1.81	0.62
8:a:91:ARG:C	14:g:118:GLN:HE22	2.07	0.62
9:b:97:TYR:CE2	9:b:103:GLU:HG3	2.34	0.62
9:b:109:LEU:O	9:b:113:GLU:N	2.28	0.62
13:f:11:VAL:HA	14:g:130:ARG:HB2	1.80	0.62
14:g:37:SER:HB3	14:g:50:VAL:HG23	1.80	0.62
2:2:231:ALA:HB2	2:2:241:PHE:HD1	1.64	0.62
16:I:271:PHE:CE1	16:I:307:PHE:HB2	2.35	0.62
17:J:364:GLU:HA	17:J:367:MET:HB3	1.82	0.62
19:L:105:ILE:HB	20:M:126:THR:OG1	1.99	0.62
19:L:329:ARG:O	19:L:332:THR:OG1	2.18	0.62
20:M:243:PHE:CE2	20:M:245:LYS:HB2	2.34	0.62
20:M:422:VAL:HG12	20:M:424:ALA:H	1.65	0.62
23:P:123:ARG:O	23:P:127:GLU:N	2.33	0.62
24:Q:346:ASN:O	24:Q:349:LYS:HB3	2.00	0.62
25:R:263:ARG:HB3	25:R:263:ARG:NH1	2.15	0.62
25:R:263:ARG:HH21	25:R:297:TYR:HE1	0.80	0.62
26:S:206:GLN:O	26:S:210:LEU:N	2.24	0.62
26:S:296:ALA:H	26:S:299:LYS:HZ3	1.46	0.62
26:S:402:ILE:HB	26:S:407:ILE:HG13	1.79	0.62
28:U:83:ILE:HD11	29:V:91:MET:HE1	1.81	0.62
30:W:13:SER:H	30:W:16:SER:HB2	1.64	0.62
33:Z:890:SER:OG	33:Z:897:HIS:O	2.17	0.62
10:c:43:GLY:HA2	10:c:146:TYR:CE1	2.35	0.62
12:e:122:ARG:HA	12:e:132:ARG:HE	1.65	0.62
1:1:167:PRO:HG3	5:5:177:ARG:HG2	1.80	0.62
10:C:43:GLY:HA2	10:C:146:TYR:CE1	2.35	0.62
10:C:191:GLU:O	10:C:195:LYS:N	2.21	0.62
18:K:81:ARG:HH21	21:N:584:ARG:HH12	1.48	0.62
19:L:66:GLU:HB3	19:L:70:TYR:CE2	2.35	0.62
19:L:145:ARG:HE	19:L:161:ARG:HG3	1.65	0.62
20:M:78:LEU:HD22	20:M:122:SER:HB2	1.80	0.62
21:N:111:GLN:O	21:N:115:LYS:N	2.17	0.62
21:N:591:LEU:HB3	21:N:595:LEU:HD12	1.80	0.62
21:N:896:PHE:CE2	21:N:898:GLY:HA2	2.35	0.62
22:O:332:ILE:C	22:O:335:GLY:H	2.08	0.62
26:S:310:LEU:HD12	26:S:313:SER:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:338:MET:HG3	26:S:343:LEU:N	2.15	0.62
27:T:94:HIS:ND1	27:T:97:SER:O	2.31	0.62
10:c:28:SER:HA	10:c:31:HIS:CD2	2.24	0.62
10:c:109:GLU:HA	10:c:112:VAL:HB	1.81	0.62
12:e:213:ASP:OD1	12:e:216:ASN:N	2.25	0.62
3:h:118:VAL:N	3:h:130:TYR:O	2.25	0.62
3:3:132:ILE:HG12	3:3:138:VAL:HG22	1.81	0.62
3:3:184:TRP:HZ2	3:h:158:ASP:HB2	1.64	0.62
5:5:169:GLN:O	5:5:173:ASN:ND2	2.26	0.62
9:B:5:TYR:OH	14:G:127:ASN:ND2	2.32	0.62
15:H:406:LEU:HA	15:H:409:ARG:HH11	1.65	0.62
18:K:320:ARG:NH1	19:L:293:GLU:OE2	2.32	0.62
21:N:70:TYR:HA	21:N:75:TYR:CE1	2.35	0.62
21:N:509:GLN:O	21:N:510:HIS:ND1	2.33	0.62
22:O:188:PHE:O	22:O:192:SER:N	2.24	0.62
23:P:285:GLN:O	23:P:288:ASN:HA	2.00	0.62
24:Q:404:ASN:HD21	25:R:393:PRO:CG	2.12	0.62
25:R:400:TYR:OH	28:U:274:MET:HA	1.99	0.62
29:V:118:LEU:HD11	29:V:140:VAL:HG22	1.81	0.62
30:W:24:THR:H	30:W:27:GLU:HB2	1.64	0.62
33:Z:564:ARG:CG	33:Z:594:PRO:C	2.73	0.62
12:e:70:ILE:H	12:e:75:GLY:HA2	1.65	0.62
2:2:89:ASP:CG	2:2:92:ASP:H	2.08	0.62
3:3:40:THR:HG22	3:3:45:ILE:HG12	1.82	0.62
1:8:106:ASN:OD1	1:8:107:SER:N	2.32	0.62
10:C:217:ARG:O	10:C:226:TYR:N	2.25	0.62
12:E:147:HIS:CE1	12:E:152:GLY:HA2	2.35	0.62
15:H:337:ILE:HA	15:H:370:ARG:CZ	2.29	0.62
17:J:143:PRO:CD	17:J:210:PHE:HB3	2.28	0.62
18:K:327:ALA:HA	18:K:330:ARG:HG3	1.82	0.62
19:L:267:PHE:O	19:L:271:LYS:N	2.27	0.62
19:L:394:CYS:HA	19:L:422:VAL:HG21	1.80	0.62
20:M:144:ASP:OD1	20:M:145:LEU:N	2.33	0.62
21:N:451:GLY:HA2	21:N:454:ALA:HB3	1.82	0.62
22:O:238:ILE:O	22:O:242:ILE:HG12	2.00	0.62
23:P:204:LEU:HD22	23:P:220:TYR:CE2	2.35	0.62
24:Q:390:LEU:N	24:Q:397:LEU:HD12	2.14	0.62
26:S:133:GLU:O	26:S:137:PHE:N	2.25	0.62
26:S:179:ILE:HD11	26:S:181:ALA:HB2	1.81	0.62
26:S:464:ARG:NH2	28:U:281:LEU:H	1.98	0.62
27:T:264:MET:O	27:T:268:ILE:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:335:LEU:HA	33:Z:342:LEU:HD23	1.82	0.62
33:Z:601:VAL:HG12	33:Z:746:ILE:HD13	1.81	0.62
33:Z:762:GLY:H	33:Z:789:GLN:NE2	1.97	0.62
8:a:20:SER:H	8:a:24:ARG:H	1.47	0.62
7:l:179:TYR:HB3	7:l:256:THR:O	2.00	0.62
2:2:124:TYR:CZ	13:f:101:ARG:HG3	2.35	0.61
10:C:64:GLU:N	10:C:212:GLU:OE2	2.32	0.61
10:C:142:ASP:OD1	10:C:143:ARG:N	2.33	0.61
14:G:35:THR:O	14:G:79:SER:OG	2.14	0.61
14:G:122:ALA:HA	14:G:125:LEU:HD12	1.82	0.61
16:I:204:PRO:HB2	16:I:261:LYS:HB3	1.80	0.61
17:J:231:ARG:O	17:J:235:VAL:N	2.32	0.61
17:J:336:ASN:OD1	25:R:207:ARG:NH1	2.33	0.61
18:K:177:LEU:O	18:K:181:LYS:N	2.22	0.61
19:L:147:THR:HG22	19:L:156:MET:HB2	1.82	0.61
19:L:224:PRO:HB2	20:M:342:ARG:HH22	1.65	0.61
19:L:288:GLY:HA2	19:L:333:LEU:HA	1.81	0.61
19:L:303:ARG:CZ	19:L:304:THR:OG1	2.48	0.61
20:M:295:LYS:HD3	20:M:302:GLN:NE2	2.14	0.61
21:N:29:ASN:O	21:N:67:LYS:NZ	2.33	0.61
21:N:239:LEU:HD23	21:N:242:PHE:HD2	1.64	0.61
21:N:390:LEU:O	21:N:393:SER:OG	2.13	0.61
22:O:282:GLN:O	22:O:285:SER:OG	2.15	0.61
23:P:133:GLU:CA	23:P:136:ARG:HE	2.13	0.61
23:P:373:GLU:O	23:P:377:GLU:N	2.23	0.61
24:Q:310:SER:HA	24:Q:346:ASN:CG	2.25	0.61
25:R:211:LYS:HG2	25:R:230:LEU:HD23	1.81	0.61
28:U:15:LEU:HB3	29:V:212:MET:CE	2.30	0.61
28:U:275:VAL:HG12	29:V:254:ARG:HE	1.65	0.61
30:W:91:LEU:HD23	30:W:128:LEU:HD13	1.82	0.61
33:Z:550:PHE:HE1	33:Z:563:VAL:HA	1.65	0.61
33:Z:594:PRO:C	33:Z:596:THR:N	2.44	0.61
33:Z:866:VAL:HG23	33:Z:867:PHE:H	1.65	0.61
8:a:85:GLY:HA3	8:a:139:VAL:HG12	1.82	0.61
11:d:68:ASP:OD1	11:d:69:SER:N	2.31	0.61
7:l:78:THR:N	7:l:204:VAL:O	2.23	0.61
2:2:42:THR:CG2	2:2:74:ARG:HH22	1.98	0.61
7:7:76:THR:HA	7:7:108:LYS:NZ	2.15	0.61
7:7:141:HIS:HA	7:7:144:ARG:NH2	2.14	0.61
8:A:20:SER:H	8:A:24:ARG:H	1.47	0.61
10:C:109:GLU:O	10:C:113:ARG:N	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:126:TYR:CB	14:G:129:VAL:HG22	2.27	0.61
15:H:346:ARG:HA	15:H:349:ILE:O	1.99	0.61
16:I:247:ILE:HA	16:I:353:MET:HB2	1.81	0.61
17:J:26:LYS:HG3	21:N:106:ILE:HG21	1.82	0.61
17:J:98:VAL:HB	17:J:102:ILE:HD11	1.81	0.61
20:M:22:ILE:HG12	20:M:25:LEU:HD12	1.82	0.61
20:M:167:VAL:HB	20:M:170:MET:HG3	1.82	0.61
20:M:370:THR:HA	20:M:410:VAL:H	1.65	0.61
22:O:191:THR:HA	22:O:194:LEU:HD12	1.82	0.61
23:P:187:SER:O	23:P:191:GLY:N	2.32	0.61
24:Q:77:PHE:HA	24:Q:80:HIS:CD2	2.34	0.61
24:Q:117:VAL:HA	24:Q:120:LYS:HD2	1.82	0.61
24:Q:420:ASN:HA	25:R:413:LYS:HZ1	1.65	0.61
25:R:97:GLU:O	25:R:101:GLU:N	2.30	0.61
25:R:328:PHE:O	25:R:332:GLU:CG	2.47	0.61
25:R:333:MET:HA	25:R:336:LYS:CB	2.23	0.61
26:S:140:LEU:O	26:S:144:LEU:HG	1.99	0.61
28:U:141:GLU:H	28:U:153:THR:HB	1.65	0.61
33:Z:364:ASN:CB	33:Z:954:PRO:HD2	2.30	0.61
33:Z:408:TYR:HE1	33:Z:442:VAL:HG21	1.65	0.61
33:Z:783:VAL:HG12	33:Z:788:PRO:N	2.15	0.61
33:Z:804:ASP:OD1	33:Z:806:GLU:N	2.28	0.61
12:e:147:HIS:CE1	12:e:152:GLY:HA2	2.35	0.61
5:j:51:LEU:HD21	5:j:53:ILE:HD11	1.82	0.61
6:k:158:LEU:HA	6:k:161:LEU:HD12	1.83	0.61
4:4:111:MET:O	4:4:115:HIS:N	2.20	0.61
5:5:90:LEU:O	5:5:93:SER:OG	2.18	0.61
12:E:118:ASP:O	12:E:122:ARG:NE	2.33	0.61
12:E:237:ALA:HA	12:E:240:ILE:HD12	1.81	0.61
14:G:12:ASN:HB3	14:G:127:ASN:HA	1.83	0.61
15:H:62:ARG:NE	16:I:126:ILE:O	2.34	0.61
15:H:77:ALA:HB2	15:H:103:THR:H	1.64	0.61
16:I:173:SER:HB3	16:I:189:ASP:HB3	1.82	0.61
17:J:62:LEU:HA	17:J:65:LEU:HD12	1.82	0.61
17:J:67:GLU:O	18:K:143:SER:HA	1.99	0.61
18:K:128:ARG:HG3	29:V:273:ARG:CB	2.30	0.61
19:L:254:LYS:HD2	20:M:256:ILE:HG12	1.81	0.61
21:N:138:GLU:O	21:N:142:GLU:N	2.28	0.61
21:N:565:ASN:O	21:N:569:LYS:N	2.23	0.61
23:P:48:GLN:NE2	23:P:85:LYS:O	2.31	0.61
24:Q:20:TYR:CE2	24:Q:68:MET:HB2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:195:LYS:O	24:Q:199:THR:N	2.19	0.61
24:Q:217:GLU:HA	24:Q:220:LEU:HB3	1.82	0.61
24:Q:314:PHE:HE1	24:Q:335:PHE:HE2	0.67	0.61
25:R:378:ASN:O	25:R:390:THR:HA	1.99	0.61
26:S:422:MET:CA	26:S:425:ARG:CG	2.78	0.61
28:U:297:GLN:O	28:U:301:ILE:N	2.24	0.61
33:Z:761:PHE:CZ	33:Z:783:VAL:HG21	2.34	0.61
33:Z:793:PHE:CD1	33:Z:830:LEU:HD13	2.35	0.61
8:a:204:GLU:HG3	8:a:244:ARG:HD2	1.81	0.61
9:b:205:ASN:N	9:b:208:THR:OG1	2.30	0.61
10:c:64:GLU:N	10:c:212:GLU:OE2	2.32	0.61
12:e:192:THR:N	12:e:195:GLU:OE1	2.33	0.61
6:k:41:HIS:NE2	6:k:186:LYS:O	2.23	0.61
5:5:54:THR:OG1	5:5:139:SER:OG	2.13	0.61
5:5:145:GLN:OE1	5:5:145:GLN:N	2.27	0.61
6:6:158:LEU:HA	6:6:161:LEU:HD12	1.83	0.61
1:8:145:ASP:OD2	1:8:147:VAL:HG22	2.01	0.61
2:9:47:MET:SD	2:9:188:LEU:HD22	2.40	0.61
13:F:111:LEU:O	13:F:115:LYS:N	2.30	0.61
15:H:282:LYS:HA	16:I:283:TYR:CE2	2.35	0.61
18:K:207:ARG:HG3	18:K:308:GLN:HG2	1.83	0.61
18:K:215:PRO:O	19:L:339:ARG:NH1	2.34	0.61
18:K:349:ARG:HH22	18:K:378:LEU:N	1.97	0.61
20:M:369:THR:O	20:M:410:VAL:N	2.32	0.61
21:N:386:MET:O	21:N:390:LEU:N	2.33	0.61
21:N:501:MET:HB2	21:N:521:LEU:HD21	1.81	0.61
22:O:69:PHE:HZ	22:O:75:GLN:O	1.83	0.61
22:O:73:ILE:HG23	30:W:17:ARG:NH2	2.15	0.61
24:Q:417:GLY:O	24:Q:421:LYS:NZ	2.28	0.61
25:R:263:ARG:HE	25:R:297:TYR:HD1	1.47	0.61
26:S:44:THR:O	26:S:48:LEU:N	2.33	0.61
28:U:29:GLU:OE2	28:U:126:LYS:NZ	2.21	0.61
28:U:210:TYR:HA	28:U:213:LYS:HB3	1.80	0.61
29:V:206:THR:O	29:V:210:THR:OG1	2.17	0.61
30:W:52:ILE:HA	30:W:61:VAL:HA	1.81	0.61
33:Z:789:GLN:O	33:Z:793:PHE:CE1	2.52	0.61
8:a:135:ARG:NE	14:g:124:THR:O	2.33	0.61
13:f:80:ASP:OD2	13:f:129:GLY:N	2.21	0.61
4:i:36:LYS:N	4:i:152:TYR:O	2.29	0.61
4:i:77:THR:HG22	4:i:80:ASP:H	1.64	0.61
2:9:145:ASN:H	2:9:165:LEU:HB3	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:43:VAL:HG22	11:D:214:VAL:HG22	1.80	0.61
16:I:116:GLN:HA	16:I:119:GLU:HB2	1.81	0.61
16:I:246:VAL:HA	16:I:373:ARG:HB2	1.83	0.61
17:J:160:ILE:HG21	17:J:202:VAL:HG21	1.81	0.61
18:K:247:LEU:CB	18:K:291:GLU:OE2	2.49	0.61
21:N:173:LYS:HD2	21:N:173:LYS:H	1.63	0.61
21:N:340:HIS:HB2	21:N:374:ILE:HG12	1.82	0.61
21:N:391:PRO:HA	21:N:401:LYS:HE3	1.82	0.61
21:N:530:GLU:N	21:N:530:GLU:OE1	2.34	0.61
22:O:83:LEU:HD22	22:O:102:LEU:HD23	1.75	0.61
22:O:248:TYR:O	22:O:252:PHE:N	2.25	0.61
22:O:260:VAL:HG11	22:O:265:LYS:HD2	1.81	0.61
23:P:162:GLU:N	23:P:162:GLU:OE1	2.33	0.61
25:R:118:GLN:O	25:R:122:GLU:N	2.29	0.61
25:R:200:LYS:CE	25:R:202:GLY:N	2.63	0.61
25:R:312:TYR:HD1	25:R:316:LEU:HD12	1.66	0.61
26:S:433:GLU:HB3	26:S:448:LEU:HD21	1.81	0.61
26:S:464:ARG:NH1	28:U:277:TYR:O	2.32	0.61
30:W:8:LEU:HD23	30:W:51:LEU:HD13	1.82	0.61
33:Z:291:GLU:HB2	33:Z:294:ILE:HD12	1.73	0.61
33:Z:454:GLY:HA2	33:Z:457:ILE:HD12	1.83	0.61
33:Z:585:LEU:HG	33:Z:603:VAL:CB	2.27	0.61
8:a:41:ASN:N	8:a:56:GLN:OE1	2.25	0.61
11:d:115:GLY:HA2	11:d:118:GLN:HB3	1.82	0.61
1:1:145:ASP:OD2	1:1:147:VAL:HG22	2.01	0.61
2:2:257:ASP:OD2	4:4:152:TYR:OH	2.17	0.61
7:7:276:LYS:NZ	7:7:287:GLY:O	2.24	0.61
1:8:47:ARG:HE	1:8:219:ASP:CG	2.09	0.61
10:C:156:ASN:ND2	11:D:79:ASN:OD1	2.33	0.61
10:C:197:LEU:O	10:C:201:THR:N	2.33	0.61
13:F:186:PRO:O	13:F:190:ILE:N	2.20	0.61
16:I:418:ASP:HA	16:I:421:ALA:HB3	1.82	0.61
18:K:349:ARG:O	18:K:353:PHE:N	2.23	0.61
19:L:300:GLU:HA	19:L:303:ARG:NH1	2.14	0.61
20:M:339:ARG:N	20:M:343:LEU:O	2.33	0.61
21:N:163:LEU:O	21:N:167:GLU:N	2.29	0.61
21:N:285:ALA:O	21:N:289:ILE:N	2.31	0.61
21:N:315:ASN:HA	21:N:318:LYS:HE3	1.81	0.61
21:N:774:ASN:C	21:N:866:TYR:H	2.08	0.61
23:P:76:ASN:OD1	23:P:121:THR:HG21	2.01	0.61
24:Q:267:LEU:HA	24:Q:270:ILE:HB	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:314:PHE:CE2	24:Q:318:LEU:HD22	2.36	0.61
25:R:205:GLU:O	25:R:208:ASN:N	2.32	0.61
26:S:364:ILE:O	26:S:368:LYS:N	2.33	0.61
26:S:401:LYS:HG2	26:S:444:GLU:HA	1.83	0.61
26:S:436:ILE:HG12	26:S:443:ILE:HG23	1.81	0.61
28:U:189:ARG:O	28:U:192:ASN:ND2	2.34	0.61
29:V:124:ASN:HA	29:V:127:LYS:HB3	1.83	0.61
33:Z:99:LEU:HD23	33:Z:119:LEU:HD21	1.82	0.61
33:Z:415:MET:HG2	33:Z:447:VAL:HG22	1.83	0.61
33:Z:784:SER:CB	33:Z:788:PRO:HB3	2.29	0.61
11:d:13:PRO:HA	12:e:26:TYR:CE1	2.34	0.61
11:d:48:ARG:HE	11:d:211:GLU:HB3	1.66	0.61
11:d:94:GLN:HG3	6:k:66:LEU:HB2	1.82	0.61
14:g:8:TYR:CG	14:g:17:PRO:HD3	2.35	0.61
5:j:91:VAL:HB	5:j:124:PHE:HE2	1.64	0.61
5:j:143:SER:HA	5:j:146:LEU:HD12	1.81	0.61
6:k:15:LEU:HD12	6:k:43:LEU:HD23	1.83	0.61
7:l:97:ALA:N	7:l:100:TRP:O	2.33	0.61
7:7:241:HIS:ND1	5:j:204:GLN:O	2.33	0.61
1:8:180:GLU:OE2	1:8:189:LYS:HA	2.00	0.61
10:C:109:GLU:HA	10:C:112:VAL:HB	1.81	0.61
12:E:147:HIS:CD2	12:E:224:LYS:HB2	2.36	0.61
16:I:116:GLN:NE2	33:Z:625:THR:O	2.34	0.61
18:K:49:PHE:HD1	21:N:152:LEU:HB2	1.66	0.61
19:L:88:TYR:CZ	20:M:26:SER:HA	2.36	0.61
22:O:266:PHE:HZ	22:O:274:ILE:HG12	1.66	0.61
22:O:343:GLN:HB3	23:P:360:ILE:HA	1.83	0.61
24:Q:70:ALA:O	24:Q:74:LEU:N	2.27	0.61
26:S:330:LEU:HD23	26:S:333:PHE:HD2	1.66	0.61
26:S:408:CYS:SG	26:S:419:VAL:HG11	2.41	0.61
28:U:103:ASP:O	28:U:107:ASN:N	2.31	0.61
30:W:66:THR:CG2	30:W:71:LYS:CD	2.78	0.61
33:Z:783:VAL:O	33:Z:787:ASP:CA	2.48	0.61
33:Z:892:SER:O	33:Z:895:LEU:HB2	2.01	0.61
11:d:34:VAL:HA	11:d:163:THR:HA	1.82	0.61
6:k:182:LYS:HA	6:k:191:GLN:HA	1.81	0.61
2:2:50:ASP:O	2:2:158:GLN:NE2	2.34	0.61
1:8:62:VAL:HG13	1:8:72:SER:HB2	1.82	0.61
2:9:50:ASP:O	2:9:158:GLN:NE2	2.34	0.61
2:9:89:ASP:CG	2:9:92:ASP:H	2.08	0.61
13:F:116:ALA:HA	13:F:119:ASN:HD22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:455:LYS:O	15:H:456:LYS:HD2	2.00	0.61
20:M:228:LYS:HG2	20:M:349:PHE:CD2	2.36	0.61
21:N:340:HIS:HB3	21:N:374:ILE:HG23	1.81	0.61
22:O:293:LEU:O	22:O:297:ILE:N	2.26	0.61
24:Q:64:LEU:O	24:Q:68:MET:N	2.29	0.61
25:R:34:THR:HA	25:R:70:TYR:CG	2.36	0.61
25:R:231:LEU:HG	25:R:253:ALA:HB2	1.82	0.61
25:R:283:THR:C	25:R:285:ALA:H	2.04	0.61
25:R:400:TYR:CZ	28:U:274:MET:HB3	2.36	0.61
25:R:400:TYR:HA	25:R:403:LEU:HB2	1.82	0.61
26:S:230:LYS:HD3	26:S:257:LEU:HD11	1.82	0.61
26:S:377:TYR:CD2	27:T:133:ILE:HD11	2.36	0.61
27:T:52:LEU:HA	27:T:56:MET:HG3	1.83	0.61
27:T:262:LYS:HG2	27:T:266:TYR:CE2	2.36	0.61
28:U:21:HIS:ND1	28:U:93:TYR:OH	2.32	0.61
33:Z:305:VAL:HG21	33:Z:918:ASP:C	2.26	0.61
8:a:57:LYS:N	8:a:222:ASP:O	2.32	0.61
10:c:142:ASP:OD1	10:c:143:ARG:N	2.33	0.61
11:d:81:ASP:OD1	11:d:127:ARG:NH2	2.29	0.61
14:g:11:SER:HB3	14:g:127:ASN:HB2	1.82	0.61
6:6:15:LEU:HD12	6:6:43:LEU:HD23	1.83	0.61
1:8:214:HIS:NE2	1:8:216:GLN:HB2	2.16	0.61
9:B:57:MET:O	9:B:60:THR:OG1	2.12	0.61
12:E:161:SER:OG	12:E:163:THR:OG1	2.19	0.61
12:E:214:GLU:OE1	12:E:214:GLU:N	2.32	0.61
15:H:47:ALA:H	33:Z:622:HIS:CE1	2.19	0.61
15:H:254:THR:OG1	15:H:377:PHE:CE2	2.52	0.61
15:H:277:SER:O	15:H:281:GLN:NE2	2.32	0.61
16:I:281:GLN:HG2	17:J:223:ILE:CB	2.31	0.61
17:J:209:LYS:O	17:J:244:ILE:N	2.33	0.61
18:K:128:ARG:HB2	29:V:272:GLY:HA2	1.83	0.61
19:L:131:VAL:HG11	19:L:137:ARG:HG2	1.83	0.61
19:L:219:LEU:O	19:L:347:VAL:N	2.29	0.61
19:L:378:ALA:HA	19:L:381:LYS:HD2	1.83	0.61
22:O:12:SER:HA	22:O:13:THR:C	2.26	0.61
22:O:128:LEU:HD12	22:O:131:SER:HB2	1.82	0.61
23:P:249:ALA:HB2	23:P:257:TRP:CZ2	2.36	0.61
23:P:353:ILE:HG23	23:P:357:TYR:CD2	2.35	0.61
24:Q:83:GLU:O	24:Q:87:GLN:HG2	2.01	0.61
24:Q:227:CYS:SG	24:Q:330:LEU:HD11	2.40	0.61
25:R:392:ARG:HH11	25:R:392:ARG:CG	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:85:ARG:NH2	31:X:101:LEU:HA	2.16	0.61
8:a:177:GLU:O	8:a:180:THR:OG1	2.12	0.61
11:d:120:TYR:HA	11:d:123:SER:HB2	1.81	0.61
13:f:116:ALA:HA	13:f:119:ASN:HD22	1.65	0.61
6:k:135:TYR:HA	6:k:138:PHE:CD2	2.36	0.61
7:l:84:GLN:HB2	7:l:222:ASP:HA	1.81	0.61
1:1:62:VAL:HG13	1:1:72:SER:HB2	1.82	0.61
1:1:114:HIS:CE1	12:e:102:TYR:HA	2.36	0.61
1:1:180:GLU:OE2	1:1:189:LYS:HA	2.00	0.61
5:5:51:LEU:HD21	5:5:53:ILE:HD11	1.82	0.61
5:5:123:GLY:HA3	5:5:137:ILE:HG21	1.82	0.61
15:H:251:PRO:O	15:H:254:THR:OG1	2.18	0.61
16:I:197:VAL:HG23	17:J:227:SER:HB3	1.82	0.61
18:K:392:LEU:HB3	18:K:396:ARG:HD2	1.82	0.61
19:L:256:ILE:HG22	19:L:256:ILE:O	2.01	0.61
20:M:12:LEU:O	20:M:16:ASP:N	2.22	0.61
21:N:149:GLU:O	21:N:152:LEU:HB3	2.00	0.61
22:O:140:LYS:HD3	22:O:142:ASP:N	2.15	0.61
22:O:296:LEU:HD23	22:O:300:VAL:HG21	1.81	0.61
22:O:341:ILE:HB	23:P:357:TYR:HD1	1.65	0.61
23:P:70:ASN:ND2	23:P:78:GLN:OE1	2.33	0.61
25:R:294:ILE:O	25:R:298:ALA:N	2.34	0.61
26:S:436:ILE:HG12	26:S:443:ILE:HA	1.82	0.61
27:T:151:TRP:CZ2	27:T:159:LYS:HB2	2.36	0.61
27:T:197:TYR:O	27:T:238:GLN:NE2	2.34	0.61
27:T:198:ASP:O	27:T:235:PHE:N	2.33	0.61
29:V:117:TRP:HA	29:V:156:PHE:CZ	2.36	0.61
33:Z:862:MET:HA	33:Z:910:PRO:HA	1.83	0.61
10:c:197:LEU:O	10:c:201:THR:N	2.33	0.61
11:d:73:LEU:HD12	11:d:135:ILE:HG12	1.83	0.61
14:g:42:CYS:N	14:g:45:GLY:O	2.32	0.61
4:i:126:TYR:HE1	4:i:144:ALA:H	1.49	0.61
4:i:178:GLU:H	4:i:178:GLU:CD	2.06	0.61
7:l:82:ARG:HH11	7:l:200:ASP:CG	2.09	0.61
6:6:182:LYS:HA	6:6:191:GLN:HA	1.81	0.60
7:7:82:ARG:HD3	7:7:200:ASP:OD1	2.01	0.60
7:7:97:ALA:N	7:7:100:TRP:O	2.33	0.60
9:B:119:GLN:HE22	10:C:83:ASP:HA	1.65	0.60
11:D:66:LYS:HA	11:D:72:VAL:HG12	1.82	0.60
12:E:91:HIS:CD2	12:E:119:LEU:HD11	2.35	0.60
15:H:280:VAL:HG21	15:H:329:VAL:HG13	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:244:LYS:HE3	16:I:371:ILE:HG13	1.83	0.60
16:I:295:PHE:HA	16:I:298:ALA:HB3	1.82	0.60
18:K:92:VAL:O	18:K:94:LEU:N	2.34	0.60
19:L:260:ALA:HB1	19:L:264:ARG:NE	2.16	0.60
19:L:402:ALA:O	19:L:406:ASP:N	2.34	0.60
21:N:717:LEU:HD13	21:N:729:SER:HB2	1.82	0.60
22:O:91:ASP:HB3	22:O:94:GLU:HB2	1.82	0.60
22:O:294:MET:O	22:O:298:GLU:N	2.32	0.60
24:Q:315:ASN:HA	24:Q:318:LEU:HB3	1.83	0.60
25:R:328:PHE:O	25:R:332:GLU:HB2	2.01	0.60
25:R:391:ASN:HD22	26:S:449:LEU:HD22	1.63	0.60
25:R:399:GLN:HE21	28:U:275:VAL:CG2	2.07	0.60
26:S:391:GLY:O	26:S:395:ILE:HG12	2.01	0.60
28:U:117:ASN:HD21	28:U:139:ALA:HB3	1.66	0.60
28:U:140:ILE:N	28:U:153:THR:O	2.24	0.60
33:Z:242:PHE:O	33:Z:245:VAL:HB	2.00	0.60
33:Z:736:LEU:HA	33:Z:739:ALA:HB3	1.83	0.60
33:Z:736:LEU:HD12	33:Z:739:ALA:HB3	1.82	0.60
33:Z:759:ARG:HH11	33:Z:759:ARG:CG	2.14	0.60
11:d:66:LYS:HA	11:d:72:VAL:HG12	1.82	0.60
13:f:20:PHE:O	13:f:24:TYR:N	2.21	0.60
3:h:122:ASP:OD2	3:h:125:ASN:ND2	2.33	0.60
2:2:47:MET:SD	2:2:188:LEU:HD22	2.40	0.60
1:8:171:ASN:OD1	1:8:178:GLN:NE2	2.34	0.60
12:E:184:LEU:HA	13:F:56:LEU:HD11	1.83	0.60
15:H:250:GLY:O	15:H:256:LYS:NZ	2.34	0.60
15:H:379:LEU:O	15:H:379:LEU:HG	2.01	0.60
17:J:47:GLN:O	17:J:51:LEU:N	2.21	0.60
17:J:72:VAL:H	18:K:118:TYR:HD1	1.48	0.60
17:J:87:LYS:HG3	17:J:92:GLY:C	2.26	0.60
17:J:351:ASN:OD1	17:J:352:GLY:N	2.34	0.60
20:M:4:LEU:HA	20:M:7:LEU:HB2	1.82	0.60
20:M:220:MET:HE3	20:M:324:LEU:HD21	1.83	0.60
23:P:361:THR:HA	23:P:399:ILE:HA	1.83	0.60
23:P:383:LEU:HD22	23:P:388:ILE:HB	1.83	0.60
24:Q:416:VAL:HG12	25:R:406:GLN:HB3	1.82	0.60
25:R:131:ALA:HA	25:R:134:TRP:CD1	2.36	0.60
25:R:296:LEU:HB2	25:R:304:TYR:CD1	2.36	0.60
26:S:199:GLU:CB	27:T:93:ASN:HB3	2.31	0.60
26:S:423:VAL:HG21	26:S:436:ILE:HD11	1.82	0.60
29:V:71:MET:HE1	29:V:87:PHE:HD2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:501:LYS:NZ	33:Z:537:THR:HG21	2.16	0.60
11:d:158:SER:OG	12:e:60:GLU:HB2	2.00	0.60
12:e:91:HIS:CD2	12:e:119:LEU:HD11	2.35	0.60
14:g:122:ALA:HA	14:g:125:LEU:HD12	1.82	0.60
1:1:171:ASN:OD1	1:1:178:GLN:NE2	2.34	0.60
2:2:109:TYR:HB3	14:g:93:ARG:NH1	2.15	0.60
5:5:46:TYR:OH	5:5:64:ASN:O	2.19	0.60
6:6:169:GLU:HG2	6:6:176:PHE:HZ	1.67	0.60
7:7:76:THR:HA	7:7:108:LYS:HZ1	1.66	0.60
7:7:100:TRP:CZ3	1:8:163:SER:HA	2.36	0.60
7:7:179:TYR:HB3	7:7:256:THR:O	2.00	0.60
8:A:65:ASP:O	8:A:68:THR:OG1	2.17	0.60
11:D:138:PHE:HD2	11:D:217:PRO:HA	1.63	0.60
13:F:148:GLN:O	13:F:151:GLY:N	2.31	0.60
14:G:196:ALA:HA	14:G:199:ILE:HD12	1.82	0.60
15:H:340:LEU:HB3	15:H:370:ARG:NH2	2.16	0.60
16:I:157:VAL:HB	16:I:182:SER:HA	1.84	0.60
17:J:261:SER:HB3	17:J:265:ASP:H	1.65	0.60
19:L:282:GLU:H	19:L:326:ALA:HB3	1.67	0.60
20:M:289:LYS:O	20:M:295:LYS:HG2	2.01	0.60
20:M:338:LEU:HD21	20:M:346:LYS:HB2	1.83	0.60
21:N:154:LEU:HD13	21:N:189:LEU:HD22	1.82	0.60
21:N:425:ASN:O	21:N:429:GLU:N	2.20	0.60
21:N:602:VAL:HA	21:N:605:ILE:HB	1.83	0.60
21:N:761:ILE:O	21:N:762:ARG:HG3	2.01	0.60
22:O:12:SER:O	22:O:43:GLU:HB2	2.01	0.60
26:S:361:THR:OG1	26:S:384:ARG:NH1	2.32	0.60
30:W:181:LEU:O	30:W:185:ILE:HG12	2.02	0.60
31:X:34:GLU:O	31:X:49:GLU:N	2.32	0.60
33:Z:774:ARG:HD3	33:Z:893:PHE:HD2	1.66	0.60
10:c:191:GLU:O	10:c:195:LYS:N	2.21	0.60
10:c:239:LEU:O	10:c:242:THR:OG1	2.20	0.60
13:f:43:HIS:HE1	13:f:184:GLY:HA2	1.67	0.60
3:h:16:VAL:HA	3:h:41:THR:HG22	1.84	0.60
3:h:40:THR:HG22	3:h:45:ILE:HG12	1.82	0.60
4:i:142:ILE:HG12	4:i:148:THR:HG22	1.83	0.60
1:1:134:ASP:N	1:1:138:LYS:O	2.27	0.60
3:3:59:LYS:HD3	3:3:121:TYR:HD2	1.66	0.60
4:4:66:ILE:HB	4:4:70:ILE:HG22	1.83	0.60
4:4:142:ILE:HG12	4:4:148:THR:HG22	1.83	0.60
15:H:379:LEU:HD12	15:H:413:ASN:C	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:77:LYS:O	17:J:85:LEU:N	2.30	0.60
17:J:81:ASP:OD2	17:J:83:LYS:HB2	2.02	0.60
17:J:84:VAL:N	17:J:96:VAL:O	2.34	0.60
20:M:291:PHE:CD2	20:M:292:ASP:HB3	2.35	0.60
20:M:377:GLN:O	20:M:381:ARG:N	2.28	0.60
21:N:331:ALA:HB2	21:N:697:PHE:CD2	2.36	0.60
21:N:364:LYS:HB3	21:N:400:ILE:HG13	1.82	0.60
21:N:504:TYR:O	21:N:508:THR:N	2.32	0.60
21:N:777:ALA:HB2	21:N:881:TYR:HB2	1.83	0.60
22:O:387:ARG:HD2	27:T:266:TYR:CZ	2.36	0.60
23:P:287:ASP:OD1	23:P:297:GLU:HB3	2.01	0.60
23:P:423:LEU:HD11	29:V:239:ALA:H	1.65	0.60
25:R:209:ARG:HG2	25:R:238:PHE:CE2	2.37	0.60
26:S:268:LEU:HA	26:S:271:ARG:HB2	1.83	0.60
26:S:369:GLN:HA	26:S:372:LEU:HB3	1.83	0.60
28:U:195:LYS:HG2	29:V:233:LYS:HE2	1.83	0.60
30:W:49:VAL:H	30:W:71:LYS:NZ	1.99	0.60
33:Z:254:PRO:O	33:Z:260:GLU:HA	2.01	0.60
33:Z:307:HIS:HA	33:Z:310:LEU:HB3	1.84	0.60
33:Z:312:TYR:CZ	33:Z:349:THR:HA	2.35	0.60
33:Z:557:GLU:HB2	33:Z:562:TRP:CD1	2.36	0.60
33:Z:767:TYR:HD2	33:Z:772:ILE:HD13	1.66	0.60
12:e:118:ASP:O	12:e:122:ARG:NE	2.34	0.60
5:j:98:ARG:HB3	5:j:102:PRO:HA	1.83	0.60
5:j:145:GLN:OE1	5:j:145:GLN:N	2.27	0.60
3:3:175:LYS:HG2	3:3:215:LEU:HD11	1.84	0.60
4:4:101:ARG:HH12	8:A:115:ASP:CG	2.10	0.60
8:A:41:ASN:H	8:A:56:GLN:CD	2.10	0.60
9:B:206:GLY:HA3	9:B:240:SER:HA	1.84	0.60
10:C:239:LEU:O	10:C:242:THR:OG1	2.20	0.60
15:H:58:ASP:O	15:H:61:ALA:N	2.33	0.60
15:H:377:PHE:O	15:H:378:SER:CB	2.48	0.60
16:I:244:LYS:HG2	16:I:370:ARG:C	2.27	0.60
17:J:339:ARG:HA	17:J:341:ILE:HG22	1.82	0.60
18:K:342:SER:O	18:K:344:ARG:N	2.34	0.60
20:M:345:ARG:HB3	20:M:347:ILE:HD11	1.83	0.60
22:O:142:ASP:O	22:O:143:LEU:C	2.44	0.60
24:Q:72:ASP:HA	24:Q:75:ARG:NE	2.17	0.60
24:Q:259:CYS:HA	24:Q:262:LEU:HB3	1.83	0.60
27:T:168:SER:O	27:T:172:SER:N	2.35	0.60
27:T:226:TRP:CD2	27:T:235:PHE:HE1	2.20	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:54:GLU:OE1	31:X:102:GLN:NE2	2.34	0.60
33:Z:354:PRO:HA	33:Z:357:ILE:HB	1.84	0.60
8:a:68:THR:HG21	14:g:159:GLY:HA3	1.82	0.60
8:a:119:LYS:NZ	4:i:98:TYR:O	2.22	0.60
9:b:7:PHE:CE2	10:c:7:ASP:HA	2.37	0.60
10:c:13:PHE:H	11:d:19:GLN:HE22	1.47	0.60
3:h:85:TYR:O	3:h:89:TYR:N	2.28	0.60
4:i:160:SER:O	4:i:164:MET:N	2.23	0.60
5:j:189:ILE:HB	5:j:196:VAL:HB	1.84	0.60
1:1:29:GLY:O	1:1:74:ASN:CG	2.43	0.60
1:1:30:THR:HA	1:1:159:GLY:HA3	1.83	0.60
2:2:60:LEU:HD22	2:2:225:SER:HB2	1.84	0.60
2:2:145:ASN:H	2:2:165:LEU:HB3	1.65	0.60
1:8:46:THR:O	1:8:59:GLU:N	2.30	0.60
8:A:161:GLY:O	9:B:83:ARG:NH1	2.34	0.60
14:G:12:ASN:O	14:G:21:ASN:ND2	2.35	0.60
14:G:220:SER:O	14:G:226:GLY:N	2.32	0.60
16:I:272:LEU:N	16:I:305:ILE:O	2.26	0.60
17:J:103:ASN:HD22	17:J:106:ASP:HB3	1.66	0.60
18:K:252:ARG:HH22	19:L:126:ARG:HD2	1.67	0.60
19:L:252:VAL:HG12	19:L:252:VAL:O	2.01	0.60
21:N:70:TYR:HA	21:N:75:TYR:HE1	1.66	0.60
21:N:769:PRO:HG3	21:N:890:PHE:CE2	2.37	0.60
24:Q:304:GLU:O	24:Q:308:ASN:N	2.34	0.60
24:Q:363:SER:CB	24:Q:369:ASP:O	2.48	0.60
24:Q:386:PHE:CD1	25:R:340:GLN:O	2.55	0.60
25:R:33:LEU:HD11	25:R:89:ASN:CG	2.26	0.60
25:R:325:HIS:HB2	25:R:328:PHE:CD2	2.37	0.60
30:W:4:GLU:HB2	30:W:107:HIS:O	2.00	0.60
33:Z:237:VAL:N	33:Z:264:PHE:CZ	2.69	0.60
33:Z:305:VAL:HG13	33:Z:982:ILE:HG21	1.84	0.60
33:Z:598:ALA:O	33:Z:745:LEU:HD13	2.01	0.60
33:Z:770:GLU:HA	33:Z:773:ARG:HB2	1.84	0.60
33:Z:785:VAL:HG12	33:Z:822:THR:OG1	2.01	0.60
8:a:48:LYS:HA	8:a:193:HIS:ND1	2.17	0.60
4:i:66:ILE:HB	4:i:70:ILE:HG22	1.83	0.60
5:j:46:TYR:OH	5:j:64:ASN:O	2.19	0.60
1:1:119:LYS:HD3	1:1:124:TYR:CE2	2.37	0.60
3:3:20:THR:HA	3:3:36:ASP:OD2	2.02	0.60
7:7:111:GLU:HG2	7:7:117:LEU:HD22	1.84	0.60
7:7:172:MET:H	7:7:192:SER:HB3	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:284:ASN:O	5:j:39:LYS:NZ	2.23	0.60
8:A:73:PHE:O	8:A:81:MET:N	2.26	0.60
8:A:125:SER:O	8:A:129:THR:N	2.25	0.60
10:C:134:SER:OG	10:C:153:PRO:HD3	2.02	0.60
11:D:33:ALA:O	11:D:164:ILE:N	2.26	0.60
12:E:192:THR:N	12:E:195:GLU:OE1	2.33	0.60
15:H:97:LEU:CD2	16:I:146:ILE:CD1	2.70	0.60
17:J:170:HIS:NE2	17:J:172:GLU:HB3	2.16	0.60
18:K:140:HIS:O	18:K:144:ASN:HA	2.01	0.60
22:O:132:GLU:HA	22:O:135:ARG:NH2	2.16	0.60
22:O:147:ARG:HB2	22:O:178:TYR:CZ	2.36	0.60
23:P:412:LEU:HD22	29:V:244:MET:O	2.01	0.60
24:Q:80:HIS:HB3	24:Q:84:TYR:CE2	2.36	0.60
24:Q:355:GLU:OE2	24:Q:355:GLU:HA	2.00	0.60
24:Q:405:GLN:HG2	25:R:395:ASN:HB2	0.68	0.60
26:S:273:PHE:HB3	26:S:292:TYR:HB3	1.82	0.60
26:S:460:VAL:O	26:S:463:GLU:HB3	2.00	0.60
28:U:174:LEU:HD11	29:V:210:THR:HA	1.82	0.60
28:U:266:THR:O	28:U:269:THR:OG1	2.14	0.60
29:V:249:GLU:O	29:V:253:LYS:N	2.21	0.60
33:Z:822:THR:HG22	33:Z:827:LEU:HD22	1.83	0.60
12:e:214:GLU:OE1	12:e:214:GLU:N	2.32	0.60
7:l:82:ARG:HD3	7:l:200:ASP:OD1	2.01	0.60
3:3:102:LYS:O	3:3:106:TYR:N	2.27	0.60
4:4:33:VAL:HA	4:4:155:SER:HA	1.83	0.60
5:5:205:ASP:HA	7:l:241:HIS:HA	1.83	0.60
6:6:64:ILE:O	6:6:68:SER:N	2.28	0.60
8:A:48:LYS:HA	8:A:193:HIS:ND1	2.17	0.60
14:G:70:VAL:N	14:G:74:ILE:O	2.25	0.60
15:H:258:LEU:O	15:H:262:ALA:N	2.33	0.60
15:H:399:GLU:OE1	15:H:439:THR:HA	2.01	0.60
15:H:441:LYS:HA	15:H:444:LEU:HB2	1.83	0.60
16:I:132:SER:OG	16:I:177:HIS:O	2.19	0.60
16:I:143:ASP:O	16:I:158:SER:OG	2.14	0.60
16:I:228:PRO:HG2	16:I:242:PRO:HB3	1.84	0.60
17:J:168:VAL:HG11	17:J:206:THR:HB	1.82	0.60
18:K:319:ASN:OD1	18:K:320:ARG:N	2.35	0.60
19:L:224:PRO:HG3	19:L:328:ASN:HD21	1.66	0.60
20:M:176:PRO:HD2	20:M:236:ALA:HB1	1.84	0.60
21:N:252:GLY:O	21:N:256:GLN:N	2.27	0.60
21:N:874:ILE:HG22	21:N:875:LEU:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:43:GLU:OE1	22:O:62:TYR:HA	2.02	0.60
22:O:336:LEU:O	22:O:353:VAL:HG11	2.01	0.60
23:P:260:VAL:HG12	23:P:264:ILE:HD11	1.83	0.60
25:R:400:TYR:O	25:R:403:LEU:HB3	2.01	0.60
26:S:6:VAL:O	26:S:10:VAL:N	2.26	0.60
26:S:300:ALA:O	26:S:302:HIS:N	2.35	0.60
10:c:146:TYR:HE1	10:c:216:ILE:HG22	1.67	0.60
12:e:179:ALA:HB2	12:e:207:VAL:HG11	1.84	0.60
4:i:33:VAL:HA	4:i:155:SER:HA	1.83	0.60
5:j:123:GLY:HA3	5:j:137:ILE:HG21	1.82	0.60
1:1:49:ILE:HG22	1:1:54:ILE:HA	1.84	0.60
6:6:135:TYR:HA	6:6:138:PHE:CD2	2.36	0.60
11:D:48:ARG:HE	11:D:211:GLU:HB3	1.66	0.60
11:D:115:GLY:HA2	11:D:118:GLN:HB3	1.82	0.60
12:E:177:GLU:OE1	12:E:177:GLU:N	2.24	0.60
13:F:117:GLN:OE1	14:G:83:PRO:HB2	2.02	0.60
15:H:240:ILE:HD13	20:M:399:GLY:HA3	1.84	0.60
16:I:289:ARG:HA	16:I:292:ARG:HD2	1.84	0.60
17:J:265:ASP:HA	17:J:268:VAL:HB	1.84	0.60
18:K:207:ARG:NH2	18:K:306:PHE:HB2	2.17	0.60
19:L:70:TYR:HA	20:M:12:LEU:HD21	1.84	0.60
20:M:8:ASP:O	20:M:11:THR:OG1	2.19	0.60
20:M:224:PRO:CA	20:M:228:LYS:HD3	2.32	0.60
20:M:334:ASP:HB3	20:M:337:LEU:H	1.66	0.60
21:N:880:ARG:NH2	21:N:899:ASN:OD1	2.34	0.60
22:O:254:LEU:O	22:O:258:LEU:N	2.33	0.60
23:P:288:ASN:H	23:P:293:LEU:HD11	1.65	0.60
24:Q:27:TYR:HA	24:Q:30:LEU:HG	1.83	0.60
24:Q:404:ASN:OD1	25:R:393:PRO:CG	2.50	0.60
25:R:403:LEU:HD21	26:S:464:ARG:CD	2.27	0.60
25:R:415:GLN:HB2	26:S:298:ARG:HH12	1.66	0.60
29:V:58:VAL:HB	29:V:62:THR:HG21	1.83	0.60
29:V:140:VAL:HB	29:V:154:ASP:HB3	1.84	0.60
33:Z:131:LYS:HG2	33:Z:135:LEU:HD22	1.83	0.60
33:Z:269:TYR:C	33:Z:272:TYR:HD2	2.06	0.60
33:Z:272:TYR:CG	33:Z:277:GLU:HB2	2.36	0.60
33:Z:589:SER:HB2	33:Z:600:GLU:HG2	1.84	0.60
33:Z:757:SER:O	33:Z:761:PHE:HB2	2.02	0.60
9:b:1:MET:N	14:g:129:VAL:HG13	2.17	0.60
14:g:12:ASN:O	14:g:21:ASN:ND2	2.35	0.60
4:i:236:ARG:NE	5:j:162:ASP:OD1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:30:THR:O	4:4:158:SER:N	2.35	0.60
6:6:14:ILE:HG12	6:6:183:ILE:HG12	1.84	0.60
6:6:67:TYR:HE2	6:6:75:LEU:HD21	1.67	0.60
2:9:160:LEU:O	2:9:171:SER:OG	2.16	0.60
17:J:127:GLU:C	17:J:129:LYS:HE3	2.27	0.60
17:J:203:ALA:HB1	17:J:210:PHE:HB2	1.83	0.60
18:K:244:HIS:HD2	18:K:246:TYR:CB	2.15	0.60
19:L:138:SER:O	19:L:141:LYS:HE3	2.02	0.60
21:N:238:ALA:O	21:N:242:PHE:N	2.25	0.60
21:N:772:GLN:CB	21:N:869:ASP:H	2.15	0.60
22:O:255:LEU:HA	22:O:258:LEU:HD12	1.84	0.60
23:P:164:GLN:HA	23:P:176:LYS:CE	2.31	0.60
23:P:248:ASP:HB2	23:P:257:TRP:HD1	1.67	0.60
23:P:300:VAL:HA	23:P:303:PHE:CE2	2.37	0.60
23:P:437:GLU:O	23:P:441:GLY:N	2.35	0.60
24:Q:7:LYS:HZ2	24:Q:34:ASP:HB2	1.66	0.60
24:Q:65:TYR:O	24:Q:70:ALA:N	2.34	0.60
24:Q:143:THR:HA	24:Q:146:TYR:HB3	1.84	0.60
24:Q:181:GLU:HG2	24:Q:185:TYR:CE2	2.37	0.60
25:R:259:PHE:HD1	25:R:333:MET:SD	2.25	0.60
25:R:400:TYR:HE1	26:S:461:PHE:CE1	2.06	0.60
27:T:252:GLU:CG	27:T:256:LYS:HG3	2.24	0.60
33:Z:308:LYS:HZ1	33:Z:342:LEU:HD12	1.65	0.60
33:Z:905:ASN:OD1	33:Z:908:ILE:HD12	2.02	0.60
9:b:12:PHE:N	10:c:21:GLN:HE22	1.91	0.60
11:d:226:SER:O	11:d:230:ASN:N	2.24	0.60
4:i:245:SER:O	5:j:197:LYS:N	2.29	0.60
6:k:108:ASP:N	6:k:113:LYS:O	2.34	0.60
2:2:77:PRO:HA	2:2:83:VAL:HA	1.84	0.59
5:5:15:MET:HG2	5:5:136:PHE:HB3	1.84	0.59
6:6:92:ILE:HA	6:6:97:PRO:HB3	1.84	0.59
7:7:82:ARG:HH11	7:7:200:ASP:CG	2.09	0.59
1:8:49:ILE:HG22	1:8:54:ILE:HA	1.84	0.59
11:D:11:PHE:N	12:E:23:GLN:HE22	2.00	0.59
12:E:36:THR:HA	12:E:173:GLY:HA3	1.84	0.59
15:H:331:ARG:HH12	20:M:282:GLU:HB2	1.65	0.59
16:I:206:GLU:CB	16:I:261:LYS:HB2	2.23	0.59
19:L:307:GLU:O	19:L:310:THR:OG1	2.19	0.59
20:M:182:ASP:O	20:M:363:ILE:HG21	2.01	0.59
21:N:463:TYR:CE2	21:N:467:LYS:HD2	2.37	0.59
22:O:331:ALA:O	22:O:337:LEU:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:109:ASP:OD1	24:Q:110:SER:N	2.34	0.59
24:Q:309:ARG:O	24:Q:346:ASN:CA	2.45	0.59
25:R:204:TRP:HA	25:R:207:ARG:NH1	2.17	0.59
25:R:283:THR:C	25:R:285:ALA:N	2.60	0.59
25:R:312:TYR:CD1	25:R:316:LEU:HD12	2.37	0.59
25:R:346:LYS:HA	25:R:390:THR:OG1	2.01	0.59
26:S:421:TYR:HB3	27:T:156:SER:HA	1.84	0.59
29:V:261:LEU:HD22	29:V:280:LEU:HD23	1.84	0.59
33:Z:815:MET:HG2	33:Z:830:LEU:CD1	2.31	0.59
33:Z:915:ALA:O	33:Z:959:HIS:HA	2.02	0.59
8:a:226:GLY:HA2	8:a:235:THR:HA	1.84	0.59
12:e:147:HIS:CD2	12:e:224:LYS:HB2	2.36	0.59
13:f:76:GLY:HA3	13:f:130:VAL:HA	1.84	0.59
3:h:59:LYS:HD3	3:h:121:TYR:HD2	1.66	0.59
4:i:176:THR:N	4:i:179:GLU:OE1	2.33	0.59
2:2:52:GLY:N	2:2:158:GLN:HE21	1.99	0.59
6:6:108:ASP:N	6:6:113:LYS:O	2.34	0.59
13:F:50:LYS:N	13:F:210:ASN:O	2.29	0.59
13:F:227:GLY:O	13:F:230:VAL:HG22	2.02	0.59
15:H:331:ARG:HH21	20:M:249:PRO:HD3	1.66	0.59
19:L:101:ILE:HG13	19:L:103:GLN:NE2	2.16	0.59
22:O:99:LEU:CD1	22:O:132:GLU:CA	2.81	0.59
24:Q:202:ARG:HH22	24:Q:218:LEU:C	2.10	0.59
24:Q:302:VAL:HG11	24:Q:335:PHE:HE1	1.53	0.59
24:Q:390:LEU:HA	24:Q:397:LEU:HD12	1.84	0.59
25:R:36:SER:HA	25:R:42:GLN:CD	2.27	0.59
25:R:164:THR:HA	25:R:167:LYS:HB3	1.84	0.59
26:S:453:ASP:O	28:U:267:VAL:HG12	2.02	0.59
27:T:181:LEU:HA	27:T:184:ALA:HB3	1.83	0.59
28:U:165:GLU:O	28:U:169:ILE:N	2.34	0.59
29:V:92:MET:HA	29:V:95:LEU:HB2	1.84	0.59
30:W:44:ASN:N	30:W:47:ASN:OD1	2.33	0.59
33:Z:423:GLY:O	33:Z:427:GLN:N	2.35	0.59
10:c:150:THR:O	10:c:157:TYR:HB2	2.03	0.59
11:d:139:ASP:HB2	11:d:142:ASP:HB3	1.83	0.59
6:k:169:GLU:HG2	6:k:176:PHE:HZ	1.67	0.59
7:l:252:LEU:O	7:l:263:HIS:N	2.29	0.59
7:7:101:VAL:HB	5:j:177:ARG:HD3	1.83	0.59
7:7:191:ASP:OD1	7:7:195:THR:N	2.21	0.59
1:8:208:THR:O	1:8:212:GLU:HG2	2.03	0.59
8:A:130:GLN:HA	9:B:128:ARG:NE	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:220:LYS:HB2	8:A:238:ALA:HB1	1.84	0.59
11:D:32:CYS:HA	11:D:165:GLY:HA3	1.84	0.59
11:D:81:ASP:OD1	11:D:127:ARG:NH2	2.29	0.59
11:D:139:ASP:HB2	11:D:142:ASP:HB3	1.83	0.59
11:D:150:THR:HG22	11:D:156:TYR:HB3	1.84	0.59
11:D:163:THR:HG21	11:D:171:VAL:HG13	1.84	0.59
13:F:43:HIS:HE1	13:F:184:GLY:HA2	1.67	0.59
15:H:155:PHE:CD1	20:M:76:PRO:HG2	2.38	0.59
15:H:334:LEU:HD23	15:H:337:ILE:HD12	1.83	0.59
16:I:225:VAL:HG22	16:I:350:LYS:HD2	1.84	0.59
17:J:270:ARG:HD3	17:J:273:LEU:HB2	1.84	0.59
21:N:255:ALA:O	21:N:259:PHE:N	2.35	0.59
21:N:913:PRO:O	21:N:914:VAL:HG12	2.01	0.59
22:O:156:THR:O	22:O:160:LYS:HD3	2.01	0.59
23:P:280:LEU:HD22	23:P:283:LYS:NZ	2.16	0.59
23:P:431:HIS:HA	29:V:230:TYR:CE2	2.38	0.59
24:Q:422:VAL:O	24:Q:426:LEU:N	2.36	0.59
25:R:150:ALA:HA	25:R:153:THR:HB	1.84	0.59
25:R:198:ILE:HG23	25:R:200:LYS:HG3	1.83	0.59
26:S:156:VAL:HG22	26:S:188:TYR:CE1	2.38	0.59
26:S:215:MET:O	26:S:219:LYS:N	2.29	0.59
26:S:297:ILE:H	26:S:299:LYS:NZ	1.96	0.59
26:S:405:ARG:HA	26:S:408:CYS:CB	2.24	0.59
26:S:464:ARG:HE	28:U:281:LEU:HG	1.66	0.59
27:T:146:ILE:HA	27:T:149:ASP:HB3	1.82	0.59
29:V:97:GLN:NE2	30:W:102:GLN:OE1	2.35	0.59
33:Z:120:SER:O	33:Z:124:MET:N	2.34	0.59
33:Z:889:VAL:HG11	33:Z:894:MET:HB2	1.83	0.59
8:a:65:ASP:O	8:a:68:THR:OG1	2.17	0.59
9:b:13:SER:OG	9:b:17:LYS:N	2.35	0.59
11:d:37:LYS:HB2	11:d:145:PRO:HB2	1.84	0.59
12:e:90:GLU:OE2	7:l:144:ARG:HD3	2.01	0.59
14:g:196:ALA:HA	14:g:199:ILE:HD12	1.82	0.59
7:l:113:ASN:OD1	7:l:116:LEU:N	2.36	0.59
1:1:64:ASP:HA	1:1:70:VAL:HA	1.85	0.59
3:3:16:VAL:HA	3:3:41:THR:HG22	1.84	0.59
5:5:28:ARG:NH1	5:5:180:LEU:O	2.36	0.59
5:5:78:GLU:O	9:B:108:LYS:NZ	2.33	0.59
5:5:98:ARG:HB3	5:5:102:PRO:HA	1.83	0.59
7:7:113:ASN:O	7:7:260:TRP:NE1	2.33	0.59
8:A:57:LYS:N	8:A:222:ASP:O	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:156:VAL:HG11	20:M:163:PHE:CD1	2.36	0.59
15:H:404:TRP:HH2	15:H:443:PHE:CE1	2.21	0.59
16:I:281:GLN:HB3	17:J:223:ILE:CA	2.31	0.59
17:J:47:GLN:HA	17:J:50:ALA:HB3	1.85	0.59
17:J:74:GLU:HB3	17:J:87:LYS:O	2.02	0.59
17:J:164:ILE:HA	17:J:289:LYS:HE3	1.84	0.59
19:L:274:GLU:OE1	19:L:320:GLN:N	2.24	0.59
20:M:386:PHE:HB3	20:M:390:GLN:HB2	1.83	0.59
21:N:543:ASP:OD1	21:N:544:GLU:N	2.35	0.59
23:P:12:ASP:O	23:P:16:ILE:N	2.29	0.59
23:P:410:GLN:O	23:P:413:ASN:N	2.35	0.59
23:P:417:HIS:HA	23:P:420:ASP:HB2	1.85	0.59
25:R:202:GLY:HA3	25:R:206:ARG:HG2	1.82	0.59
25:R:407:GLY:O	25:R:411:LEU:N	2.29	0.59
26:S:152:LEU:HB2	26:S:187:ILE:HG23	1.85	0.59
26:S:179:ILE:HG13	26:S:184:TRP:CE2	2.37	0.59
29:V:107:TRP:N	29:V:137:VAL:O	2.24	0.59
31:X:63:PRO:C	31:X:65:SER:H	2.09	0.59
33:Z:102:ILE:HG23	33:Z:115:LEU:HD22	1.84	0.59
33:Z:366:LYS:HG2	33:Z:367:SER:N	2.09	0.59
8:a:102:ALA:O	8:a:106:TYR:N	2.23	0.59
9:b:206:GLY:HA3	9:b:240:SER:HA	1.84	0.59
12:e:13:SER:HB2	13:f:126:ARG:HD3	1.84	0.59
12:e:62:ASP:OD1	12:e:63:SER:N	2.35	0.59
12:e:156:PHE:CD1	12:e:166:ARG:HA	2.37	0.59
14:g:130:ARG:HG2	14:g:130:ARG:NH1	2.17	0.59
4:i:30:THR:O	4:i:158:SER:N	2.35	0.59
7:l:130:TRP:O	7:l:134:LEU:N	2.25	0.59
1:1:214:HIS:NE2	1:1:216:GLN:HB2	2.16	0.59
2:2:160:LEU:O	2:2:171:SER:OG	2.16	0.59
5:5:189:ILE:HB	5:5:196:VAL:HB	1.84	0.59
7:7:92:ASP:OD1	7:7:108:LYS:NZ	2.32	0.59
7:7:214:VAL:O	7:7:217:SER:OG	2.15	0.59
11:D:37:LYS:HB2	11:D:145:PRO:HB2	1.84	0.59
12:E:201:LEU:HD12	12:E:212:LEU:HD11	1.84	0.59
16:I:176:LEU:HD13	16:I:181:MET:HB3	1.84	0.59
16:I:253:GLY:H	16:I:257:THR:CB	2.15	0.59
16:I:275:VAL:HG23	17:J:274:GLU:OE1	2.02	0.59
17:J:26:LYS:HZ2	21:N:156:ILE:HD13	1.68	0.59
17:J:252:SER:HB3	17:J:257:ARG:NH2	2.18	0.59
18:K:95:VAL:HG23	18:K:139:LEU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:245:LYS:HZ2	19:L:256:ILE:H	1.51	0.59
22:O:191:THR:O	22:O:194:LEU:HB2	2.02	0.59
22:O:352:TRP:CG	22:O:353:VAL:H	2.21	0.59
24:Q:31:LEU:HA	24:Q:42:ALA:HB1	1.85	0.59
24:Q:49:LYS:HE2	24:Q:53:GLU:OE2	2.03	0.59
24:Q:126:LYS:HG2	24:Q:134:LYS:HZ2	1.68	0.59
24:Q:415:LEU:O	24:Q:419:LEU:HG	2.02	0.59
26:S:185:PHE:CD1	26:S:188:TYR:HB2	2.37	0.59
26:S:411:LEU:HA	26:S:414:ASP:HB2	1.84	0.59
28:U:32:ARG:N	28:U:58:GLU:OE1	2.35	0.59
30:W:2:VAL:O	30:W:47:ASN:ND2	2.28	0.59
30:W:12:ASN:CG	30:W:81:ILE:HA	2.27	0.59
30:W:12:ASN:ND2	30:W:81:ILE:HA	2.17	0.59
33:Z:492:GLY:O	33:Z:496:ALA:N	2.29	0.59
10:c:143:ARG:NH1	6:k:73:TYR:HB2	2.17	0.59
5:j:28:ARG:NH1	5:j:180:LEU:O	2.36	0.59
1:1:47:ARG:HE	1:1:219:ASP:CG	2.09	0.59
6:6:145:ASP:O	7:l:281:SER:HB2	2.03	0.59
7:7:113:ASN:OD1	7:7:116:LEU:N	2.36	0.59
8:A:85:GLY:HA3	8:A:139:VAL:HG12	1.82	0.59
10:C:16:GLU:HB3	11:D:29:ARG:HH22	1.67	0.59
12:E:156:PHE:CD1	12:E:166:ARG:HA	2.37	0.59
13:F:66:CYS:H	13:F:71:GLY:HA2	1.68	0.59
14:G:26:TYR:HA	14:G:29:LYS:HG2	1.85	0.59
14:G:121:GLN:O	14:G:124:THR:OG1	2.14	0.59
18:K:344:ARG:HG3	18:K:378:LEU:O	2.03	0.59
20:M:77:TYR:CE2	20:M:156:LEU:HD12	2.32	0.59
21:N:36:TRP:CZ2	21:N:71:ASN:HB3	2.38	0.59
21:N:635:GLN:HA	21:N:638:ILE:HB	1.84	0.59
22:O:166:ARG:O	22:O:170:SER:N	2.25	0.59
22:O:210:ARG:NH2	22:O:237:PRO:O	2.27	0.59
22:O:310:PHE:N	22:O:346:GLU:O	2.35	0.59
23:P:299:LEU:HD12	23:P:302:LEU:HB2	1.85	0.59
24:Q:29:SER:O	24:Q:33:LYS:N	2.36	0.59
24:Q:314:PHE:HD2	24:Q:339:TYR:CZ	2.20	0.59
25:R:301:TYR:HE2	25:R:359:VAL:HG11	1.67	0.59
25:R:329:PHE:O	25:R:332:GLU:N	2.35	0.59
25:R:372:ILE:HG12	25:R:381:ILE:CG2	2.33	0.59
25:R:381:ILE:N	26:S:398:THR:CB	2.39	0.59
25:R:395:ASN:O	25:R:396:LYS:C	2.46	0.59
26:S:143:GLN:O	26:S:148:ASP:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:237:ILE:HA	26:S:240:ASP:HB2	1.84	0.59
32:Y:64:TRP:N	32:Y:65:ASP:HA	2.16	0.59
33:Z:258:PRO:HB2	33:Z:259:PRO:HD3	1.85	0.59
33:Z:272:TYR:O	33:Z:276:ASN:HB2	2.03	0.59
33:Z:307:HIS:CE1	33:Z:310:LEU:HD23	2.38	0.59
11:d:212:ILE:HB	11:d:224:LEU:HB2	1.84	0.59
14:g:43:ASN:OD1	14:g:44:ASP:N	2.32	0.59
14:g:80:GLY:HA3	14:g:134:VAL:HG12	1.84	0.59
3:h:194:MET:O	3:h:205:LEU:N	2.24	0.59
4:i:39:ASN:ND2	4:i:208:GLU:OE2	2.36	0.59
6:k:67:TYR:HE2	6:k:75:LEU:HD21	1.67	0.59
2:2:135:GLN:HB3	2:2:139:LYS:HZ1	1.66	0.59
4:4:126:TYR:HE1	4:4:144:ALA:H	1.49	0.59
7:7:76:THR:N	7:7:245:TYR:O	2.36	0.59
1:8:119:LYS:HD3	1:8:124:TYR:CE2	2.37	0.59
1:8:170:ASP:O	1:8:175:PHE:N	2.36	0.59
2:9:135:GLN:HB3	2:9:139:LYS:HZ1	1.68	0.59
9:B:13:SER:OG	9:B:17:LYS:N	2.35	0.59
11:D:178:ASN:OD1	11:D:197:ARG:NH2	2.36	0.59
14:G:141:VAL:HA	14:G:146:ALA:HA	1.85	0.59
16:I:222:LYS:HA	16:I:226:GLU:HB3	1.84	0.59
16:I:273:ARG:NH2	17:J:277:ASN:HD22	1.99	0.59
17:J:252:SER:N	17:J:294:THR:OG1	2.32	0.59
17:J:273:LEU:O	17:J:277:ASN:N	2.27	0.59
20:M:276:THR:N	20:M:320:ARG:O	2.29	0.59
23:P:286:ASN:OD1	23:P:287:ASP:N	2.34	0.59
24:Q:20:TYR:HB3	24:Q:64:LEU:HD13	1.85	0.59
25:R:403:LEU:CD2	26:S:464:ARG:HD2	2.26	0.59
28:U:21:HIS:HD2	29:V:100:ARG:HH21	1.50	0.59
28:U:82:LYS:HB3	29:V:72:PRO:HB3	1.85	0.59
29:V:110:SER:O	29:V:112:PRO:HD3	2.03	0.59
32:Y:80:GLU:OE1	32:Y:83:ARG:NH2	2.35	0.59
33:Z:241:THR:HG22	33:Z:242:PHE:H	1.68	0.59
33:Z:601:VAL:CG1	33:Z:620:LEU:CD1	2.81	0.59
4:i:204:VAL:O	4:i:216:LEU:N	2.22	0.59
5:j:30:GLY:HA2	5:j:36:VAL:HG23	1.84	0.59
6:k:107:TYR:HA	6:k:114:PRO:HA	1.84	0.59
4:4:39:ASN:ND2	4:4:208:GLU:OE2	2.36	0.59
6:6:148:TYR:OH	6:6:150:PRO:HA	2.03	0.59
7:7:82:ARG:HG2	7:7:221:TRP:CZ3	2.37	0.59
1:8:31:ILE:N	1:8:158:GLY:O	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:134:ASP:N	1:8:138:LYS:O	2.27	0.59
2:9:60:LEU:HD22	2:9:225:SER:HB2	1.84	0.59
8:A:226:GLY:HA2	8:A:235:THR:HA	1.84	0.59
10:C:12:ILE:HA	11:D:19:GLN:HE22	1.67	0.59
10:C:150:THR:O	10:C:157:TYR:HB2	2.02	0.59
11:D:73:LEU:HD12	11:D:135:ILE:HG12	1.83	0.59
12:E:179:ALA:HB2	12:E:207:VAL:HG11	1.84	0.59
13:F:94:TYR:CZ	13:F:98:VAL:HG21	2.38	0.59
14:G:80:GLY:HA3	14:G:134:VAL:HG12	1.84	0.59
15:H:96:PRO:CG	16:I:137:GLU:CG	2.46	0.59
16:I:164:ASP:OD1	16:I:165:LYS:N	2.36	0.59
17:J:186:ILE:HB	17:J:310:ILE:HD13	1.84	0.59
17:J:277:ASN:ND2	17:J:309:ARG:HH21	1.97	0.59
20:M:192:GLU:HA	20:M:195:GLU:HB3	1.83	0.59
22:O:323:ASN:O	22:O:327:LEU:N	2.34	0.59
24:Q:117:VAL:O	24:Q:120:LYS:HB2	2.03	0.59
24:Q:125:ALA:HB1	24:Q:130:ARG:HB3	1.84	0.59
24:Q:164:GLU:HG3	24:Q:169:ASP:CB	2.32	0.59
24:Q:409:TYR:CE2	24:Q:413:LEU:HB2	2.38	0.59
25:R:25:GLU:O	25:R:29:LYS:N	2.24	0.59
25:R:67:CYS:SG	25:R:92:ILE:HG13	2.43	0.59
25:R:301:TYR:CG	25:R:357:PHE:HB3	2.38	0.59
26:S:343:LEU:HD12	26:S:346:TYR:HB3	1.83	0.59
26:S:475:TYR:O	26:S:479:MET:N	2.36	0.59
28:U:37:ILE:HG12	28:U:91:GLY:C	2.27	0.59
28:U:189:ARG:HD2	28:U:192:ASN:ND2	2.11	0.59
29:V:117:TRP:HZ3	29:V:119:SER:HA	1.67	0.59
33:Z:243:GLN:C	33:Z:245:VAL:N	2.61	0.59
9:b:49:LYS:N	9:b:208:THR:O	2.36	0.59
12:e:51:GLU:HG2	12:e:53:ARG:HB2	1.85	0.59
4:i:172:LYS:HG2	4:i:175:LEU:HD21	1.85	0.59
5:j:15:MET:HG2	5:j:136:PHE:HB3	1.84	0.59
7:l:270:GLU:O	7:l:274:LYS:N	2.24	0.59
1:1:29:GLY:CA	1:1:61:LYS:NZ	2.64	0.59
2:2:222:ALA:N	3:3:43:ALA:O	2.31	0.59
4:4:175:LEU:HD22	4:4:179:GLU:HB3	1.85	0.59
8:A:168:ALA:O	9:B:55:LEU:HB3	2.03	0.59
9:B:205:ASN:N	9:B:208:THR:OG1	2.30	0.59
9:B:227:ILE:HG22	9:B:230:ASP:H	1.68	0.59
15:H:69:VAL:HG11	16:I:179:LYS:HE2	1.83	0.59
15:H:195:VAL:HG12	16:I:138:GLU:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:379:ASN:ND2	16:I:413:ASP:O	2.36	0.59
18:K:96:ILE:CG1	19:L:128:ILE:HG13	2.32	0.59
18:K:157:SER:O	18:K:244:HIS:CE1	2.56	0.59
21:N:90:ASP:OD1	21:N:91:ILE:N	2.36	0.59
21:N:585:ARG:NH2	21:N:619:CYS:SG	2.75	0.59
22:O:309:SER:HB3	22:O:347:LEU:CA	2.33	0.59
23:P:233:GLU:O	23:P:237:VAL:HG23	2.03	0.59
23:P:435:LYS:NZ	28:U:156:HIS:H	2.01	0.59
24:Q:20:TYR:HA	24:Q:23:ALA:HB3	1.83	0.59
25:R:141:TYR:HB2	25:R:150:ALA:HB2	1.85	0.59
25:R:201:GLY:O	25:R:207:ARG:N	2.35	0.59
25:R:259:PHE:CD1	25:R:333:MET:SD	2.96	0.59
30:W:51:LEU:HG	30:W:62:LEU:HB2	1.84	0.59
30:W:165:GLN:O	30:W:169:SER:N	2.35	0.59
32:Y:86:ARG:HA	32:Y:89:GLN:HB2	1.83	0.59
33:Z:269:TYR:CA	33:Z:272:TYR:HE2	2.06	0.59
33:Z:740:VAL:HG13	33:Z:772:ILE:HG13	1.83	0.59
33:Z:740:VAL:HG21	33:Z:769:ASN:HD22	1.68	0.59
33:Z:758:LEU:HD12	33:Z:788:PRO:O	2.03	0.59
13:f:15:PRO:HA	14:g:26:TYR:CD1	2.37	0.59
14:g:26:TYR:HA	14:g:29:LYS:HG2	1.85	0.59
14:g:170:GLN:H	14:g:170:GLN:CD	2.07	0.59
3:h:175:LYS:HG2	3:h:215:LEU:HD11	1.84	0.59
6:k:18:SER:HA	6:k:179:VAL:HG12	1.85	0.59
7:l:82:ARG:HG2	7:l:221:TRP:CZ3	2.37	0.59
1:1:170:ASP:O	1:1:175:PHE:N	2.36	0.59
3:3:55:ARG:HB2	3:3:61:TRP:CZ2	2.38	0.59
6:6:143:LEU:HD22	6:6:147:HIS:HE1	1.68	0.59
1:8:57:ARG:HH21	4:i:194:ASN:ND2	2.01	0.59
15:H:178:ARG:HH12	15:H:191:ILE:HB	1.68	0.59
15:H:221:LEU:O	15:H:225:VAL:N	2.34	0.59
15:H:414:SER:HB3	15:H:418:GLU:OE1	2.03	0.59
16:I:291:CYS:O	16:I:295:PHE:N	2.25	0.59
17:J:188:TYR:HB3	17:J:315:GLU:CB	2.33	0.59
18:K:126:LEU:HB3	18:K:131:LEU:N	2.17	0.59
18:K:251:PRO:HA	18:K:254:VAL:HB	1.83	0.59
19:L:255:TYR:HB3	19:L:258:GLU:OE2	2.03	0.59
19:L:269:TYR:O	19:L:273:HIS:N	2.28	0.59
21:N:386:MET:HE3	21:N:407:GLY:C	2.28	0.59
21:N:617:VAL:O	21:N:621:THR:HG23	2.02	0.59
21:N:761:ILE:O	21:N:769:PRO:HD2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:23:HIS:O	22:O:24:PRO:C	2.46	0.59
22:O:196:LEU:O	22:O:200:GLU:N	2.36	0.59
23:P:287:ASP:C	23:P:289:ASN:H	2.09	0.59
23:P:353:ILE:HG23	23:P:357:TYR:HD2	1.68	0.59
24:Q:79:PRO:HG3	24:Q:124:PHE:CE2	2.33	0.59
24:Q:426:LEU:HB3	28:U:293:GLU:OE2	2.03	0.59
25:R:176:ARG:HA	25:R:243:LEU:HD21	1.84	0.59
25:R:213:TYR:O	25:R:217:HIS:N	2.35	0.59
25:R:301:TYR:OH	25:R:359:VAL:HG21	2.02	0.59
26:S:401:LYS:HA	26:S:445:THR:H	1.68	0.59
27:T:98:GLU:HA	27:T:102:LYS:NZ	2.18	0.59
27:T:249:MET:O	27:T:250:MET:O	2.21	0.59
28:U:206:ASP:HA	28:U:209:GLU:CD	2.28	0.59
31:X:85:ARG:HD3	31:X:117:LYS:HB3	1.85	0.59
33:Z:130:GLY:C	33:Z:157:LEU:HD21	2.28	0.59
8:a:123:ASN:ND2	9:b:83:ARG:HE	2.00	0.59
11:d:32:CYS:HA	11:d:165:GLY:HA3	1.84	0.59
11:d:178:ASN:OD1	11:d:197:ARG:NH2	2.36	0.59
3:h:55:ARG:HB2	3:h:61:TRP:CZ2	2.38	0.59
5:j:90:LEU:O	5:j:93:SER:OG	2.18	0.59
6:k:148:TYR:OH	6:k:150:PRO:HA	2.03	0.59
1:1:208:THR:O	1:1:212:GLU:HG2	2.03	0.58
3:3:27:PHE:CE2	3:3:29:ASP:HB2	2.37	0.58
7:7:179:TYR:HA	7:7:185:PRO:HA	1.84	0.58
2:9:204:GLN:OE1	2:9:204:GLN:N	2.29	0.58
10:C:117:ASP:O	10:C:121:GLY:N	2.37	0.58
11:D:12:SER:N	11:D:16:HIS:O	2.36	0.58
11:D:171:VAL:HG23	11:D:198:SER:HB2	1.85	0.58
16:I:337:LEU:HA	16:I:340:LEU:HB3	1.85	0.58
17:J:87:LYS:HB2	17:J:93:LYS:CG	2.33	0.58
17:J:187:LEU:N	17:J:293:ALA:HA	2.17	0.58
19:L:145:ARG:NE	19:L:161:ARG:HG3	2.17	0.58
19:L:251:ILE:HA	19:L:262:ILE:HD13	1.85	0.58
19:L:371:THR:HG23	19:L:409:HIS:HD2	1.67	0.58
20:M:263:VAL:HG12	20:M:311:GLN:NE2	2.18	0.58
21:N:743:PHE:O	21:N:745:LEU:N	2.34	0.58
23:P:57:GLU:O	23:P:61:LYS:N	2.23	0.58
24:Q:71:LYS:NZ	24:Q:109:ASP:OD1	2.34	0.58
24:Q:139:ILE:O	24:Q:143:THR:N	2.22	0.58
25:R:78:ASP:OD1	25:R:79:LEU:N	2.35	0.58
26:S:247:VAL:HG21	26:S:279:ILE:HG23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:404:LEU:HB2	26:S:441:GLY:C	2.28	0.58
28:U:52:PHE:HE2	28:U:80:CYS:HG	1.50	0.58
33:Z:272:TYR:CG	33:Z:277:GLU:CB	2.86	0.58
33:Z:394:TYR:CE2	33:Z:859:LYS:HG2	2.38	0.58
13:f:171:TYR:O	13:f:175:THR:OG1	2.19	0.58
3:h:27:PHE:CE2	3:h:29:ASP:HB2	2.37	0.58
5:j:11:ILE:HD12	5:j:146:LEU:HD11	1.85	0.58
7:l:172:MET:H	7:l:192:SER:HB3	1.66	0.58
2:2:152:VAL:HG11	2:2:235:LYS:HA	1.84	0.58
2:2:220:ARG:HH12	3:3:47:ASN:HA	1.68	0.58
3:3:180:GLN:HE22	3:h:158:ASP:HB3	1.66	0.58
3:3:196:VAL:N	3:3:203:GLU:O	2.34	0.58
4:4:176:THR:N	4:4:179:GLU:OE1	2.33	0.58
5:5:65:GLU:HB3	10:C:100:LYS:HG3	1.83	0.58
6:6:41:HIS:NE2	6:6:186:LYS:O	2.23	0.58
1:8:225:ILE:N	1:8:232:ARG:O	2.34	0.58
8:A:69:VAL:HA	14:G:158:TRP:HZ3	1.68	0.58
9:B:200:VAL:HG21	9:B:204:PHE:HD1	1.68	0.58
11:D:188:VAL:HG21	11:D:216:LYS:HE2	1.85	0.58
12:E:62:ASP:OD1	12:E:63:SER:N	2.35	0.58
14:G:201:TYR:HB3	14:G:247:ILE:HD12	1.85	0.58
15:H:61:ALA:HA	15:H:64:LYS:HD2	1.85	0.58
15:H:263:VAL:HG22	15:H:266:ARG:HD3	1.85	0.58
15:H:376:GLU:HB3	15:H:378:SER:OG	2.02	0.58
16:I:202:LYS:HG3	16:I:269:ALA:O	2.03	0.58
19:L:95:ILE:HG23	20:M:36:LEU:HD12	1.85	0.58
19:L:176:GLY:HA3	19:L:233:LYS:O	2.02	0.58
19:L:290:ARG:NH2	19:L:302:GLN:OE1	2.35	0.58
21:N:323:GLY:O	21:N:328:PHE:HB3	2.03	0.58
21:N:399:PHE:HA	21:N:441:VAL:HG11	1.86	0.58
21:N:614:ASN:HD22	21:N:617:VAL:HG23	1.68	0.58
22:O:311:GLU:OE1	22:O:321:LYS:HG3	2.04	0.58
23:P:112:LEU:O	23:P:116:ILE:N	2.23	0.58
23:P:415:TRP:HA	23:P:418:ASN:HB2	1.85	0.58
23:P:421:GLU:CD	28:U:235:LEU:HB3	2.28	0.58
24:Q:83:GLU:HA	24:Q:86:MET:HB2	1.85	0.58
24:Q:161:LEU:O	24:Q:165:PHE:N	2.19	0.58
25:R:296:LEU:HB2	25:R:304:TYR:CG	2.38	0.58
25:R:381:ILE:N	26:S:398:THR:HG21	2.12	0.58
26:S:145:PHE:HB2	26:S:147:TRP:CD1	2.37	0.58
26:S:179:ILE:HD12	26:S:184:TRP:CH2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:259:TYR:CE2	26:S:272:TYR:HB2	2.38	0.58
26:S:404:LEU:HA	26:S:443:ILE:HG13	1.85	0.58
27:T:60:ARG:O	27:T:64:VAL:N	2.29	0.58
28:U:141:GLU:CA	28:U:153:THR:N	2.63	0.58
30:W:167:GLU:N	30:W:197:SER:HB2	2.18	0.58
31:X:48:PHE:H	31:X:66:LEU:H	1.51	0.58
33:Z:272:TYR:CD2	33:Z:277:GLU:CB	2.86	0.58
33:Z:308:LYS:HG2	33:Z:345:GLU:CG	2.30	0.58
33:Z:593:HIS:N	33:Z:596:THR:CB	2.53	0.58
8:a:21:PRO:HA	9:b:23:TYR:CZ	2.37	0.58
8:a:62:LYS:O	14:g:161:LYS:HD2	2.03	0.58
8:a:168:ALA:O	9:b:55:LEU:HB3	2.02	0.58
11:d:12:SER:N	11:d:16:HIS:O	2.36	0.58
12:e:241:LYS:NZ	12:e:245:GLU:OE2	2.36	0.58
13:f:66:CYS:H	13:f:71:GLY:HA2	1.68	0.58
4:i:129:VAL:HG13	4:i:140:PHE:HB2	1.85	0.58
6:k:92:ILE:HA	6:k:97:PRO:HB3	1.84	0.58
7:l:179:TYR:HA	7:l:185:PRO:HA	1.84	0.58
1:l:29:GLY:HA3	1:l:61:LYS:HZ1	1.66	0.58
2:2:215:ARG:HG2	2:2:219:TYR:CE2	2.39	0.58
4:4:172:LYS:HG2	4:4:175:LEU:HD21	1.85	0.58
1:8:241:ASP:HA	4:i:193:TRP:HA	1.85	0.58
8:A:63:LEU:HD11	14:G:177:GLU:HG3	1.85	0.58
9:B:12:PHE:N	10:C:21:GLN:HE22	1.98	0.58
15:H:243:PRO:HD3	20:M:400:MET:SD	2.43	0.58
15:H:282:LYS:HZ3	16:I:286:ASP:CG	2.11	0.58
16:I:124:GLU:OE1	16:I:127:ARG:HD3	2.03	0.58
16:I:135:THR:O	16:I:148:THR:N	2.35	0.58
16:I:399:SER:N	16:I:438:VAL:O	2.35	0.58
18:K:214:PRO:HB2	18:K:217:THR:HG21	1.86	0.58
19:L:164:ASP:OD2	19:L:170:MET:HG3	2.03	0.58
19:L:241:ALA:HB3	19:L:277:ILE:HG12	1.85	0.58
21:N:70:TYR:HE2	26:S:219:LYS:HA	1.67	0.58
21:N:474:SER:O	21:N:478:GLY:N	2.36	0.58
21:N:742:TRP:CE2	21:N:744:PRO:HD2	2.37	0.58
22:O:341:ILE:HB	23:P:357:TYR:CD1	2.38	0.58
23:P:206:LYS:O	23:P:210:ASN:N	2.36	0.58
23:P:381:SER:CB	24:Q:350:ILE:HG23	2.32	0.58
24:Q:65:TYR:HB3	24:Q:71:LYS:N	2.19	0.58
24:Q:140:LYS:HA	24:Q:143:THR:HB	1.84	0.58
25:R:391:ASN:HD21	26:S:449:LEU:HD22	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:400:LYS:O	26:S:445:THR:N	2.37	0.58
27:T:261:GLU:O	27:T:265:ASP:N	2.23	0.58
28:U:120:LEU:N	28:U:137:TYR:O	2.36	0.58
29:V:48:GLU:HG3	29:V:110:SER:O	2.03	0.58
31:X:17:TYR:CG	31:X:97:TYR:HD1	2.22	0.58
32:Y:83:ARG:HA	32:Y:86:ARG:HB3	1.85	0.58
33:Z:334:LYS:HG3	33:Z:336:SER:H	1.67	0.58
9:b:186:GLU:HA	9:b:189:ILE:HD12	1.86	0.58
12:e:36:THR:HA	12:e:173:GLY:HA3	1.84	0.58
13:f:121:GLN:HG3	14:g:130:ARG:O	2.04	0.58
3:h:81:HIS:O	3:h:85:TYR:N	2.21	0.58
3:3:78:VAL:HG11	3:3:101:PHE:CE2	2.38	0.58
10:C:111:LEU:O	10:C:114:ARG:HB3	2.04	0.58
15:H:66:LYS:HE2	15:H:70:LYS:HE3	1.84	0.58
15:H:164:SER:HB2	15:H:168:ILE:HA	1.84	0.58
17:J:87:LYS:HA	17:J:93:LYS:HA	1.84	0.58
17:J:212:ARG:HH22	18:K:330:ARG:HH12	1.50	0.58
20:M:331:ASP:OD1	20:M:332:VAL:N	2.34	0.58
21:N:163:LEU:HD23	21:N:166:ILE:HD12	1.85	0.58
21:N:243:LYS:O	21:N:247:GLU:N	2.26	0.58
21:N:345:ASP:OD2	21:N:347:SER:OG	2.22	0.58
21:N:421:ASP:HA	21:N:424:LYS:HE2	1.85	0.58
21:N:619:CYS:SG	21:N:652:VAL:HG22	2.44	0.58
22:O:166:ARG:HH12	22:O:170:SER:HB2	1.69	0.58
22:O:380:LEU:C	22:O:382:LYS:H	2.11	0.58
22:O:384:MET:HE1	28:U:193:GLN:HE22	1.69	0.58
24:Q:57:SER:C	24:Q:61:LEU:HB3	2.28	0.58
24:Q:267:LEU:HD12	24:Q:270:ILE:HB	1.86	0.58
25:R:271:ILE:HG23	25:R:272:ASP:H	1.67	0.58
26:S:402:ILE:HG21	26:S:406:ASP:OD2	2.04	0.58
26:S:464:ARG:HH12	28:U:278:ILE:HA	1.69	0.58
28:U:281:LEU:C	28:U:285:ILE:HG13	2.28	0.58
29:V:86:VAL:HG12	29:V:90:LYS:HE3	1.85	0.58
33:Z:237:VAL:O	33:Z:268:ALA:HB2	2.03	0.58
33:Z:579:GLU:O	33:Z:583:ASP:N	2.36	0.58
14:g:141:VAL:HA	14:g:146:ALA:HA	1.85	0.58
4:i:65:ARG:HB2	4:i:71:TRP:CZ2	2.38	0.58
4:4:65:ARG:HB2	4:4:71:TRP:CZ2	2.38	0.58
5:5:33:SER:O	7:l:244:ALA:N	2.33	0.58
15:H:95:HIS:CD2	15:H:190:ARG:O	2.57	0.58
15:H:147:ILE:CD1	15:H:156:VAL:HA	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:228:PRO:HB3	15:H:235:PHE:CE2	2.37	0.58
18:K:137:VAL:HB	18:K:146:LEU:HD13	1.84	0.58
21:N:12:LEU:HD23	21:N:15:GLU:OE1	2.02	0.58
22:O:147:ARG:HB2	22:O:178:TYR:CE1	2.38	0.58
22:O:239:MET:O	22:O:242:ILE:N	2.36	0.58
22:O:367:LYS:O	22:O:371:VAL:N	2.30	0.58
23:P:220:TYR:HA	23:P:223:LEU:HD12	1.86	0.58
23:P:431:HIS:CE1	28:U:156:HIS:HB3	2.38	0.58
24:Q:7:LYS:O	24:Q:11:ALA:N	2.26	0.58
24:Q:57:SER:OG	24:Q:58:ILE:N	2.34	0.58
24:Q:285:LYS:HA	24:Q:288:LYS:HB3	1.84	0.58
25:R:335:ARG:HH22	25:R:374:ASN:HB3	1.67	0.58
28:U:21:HIS:CD2	29:V:100:ARG:HH21	2.21	0.58
28:U:56:PHE:CE2	28:U:58:GLU:HB2	2.38	0.58
28:U:77:ASN:HB3	28:U:81:LYS:HZ2	1.68	0.58
33:Z:233:LEU:HD11	33:Z:253:VAL:HA	1.86	0.58
33:Z:889:VAL:HG21	33:Z:894:MET:O	2.04	0.58
10:c:134:SER:OG	10:c:153:PRO:HD3	2.02	0.58
12:e:71:ASP:N	12:e:74:ILE:O	2.27	0.58
12:e:219:LEU:HB3	12:e:231:TYR:HD2	1.68	0.58
13:f:40:SER:N	13:f:43:HIS:O	2.36	0.58
13:f:50:LYS:N	13:f:210:ASN:O	2.29	0.58
13:f:94:TYR:CZ	13:f:98:VAL:HG21	2.38	0.58
5:5:109:VAL:O	5:5:122:ALA:N	2.36	0.58
6:6:18:SER:HA	6:6:179:VAL:HG12	1.85	0.58
6:6:107:TYR:HA	6:6:114:PRO:HA	1.84	0.58
7:7:125:ALA:O	7:7:129:PHE:N	2.19	0.58
8:A:121:MET:HA	8:A:124:LEU:HD13	1.86	0.58
9:B:49:LYS:N	9:B:208:THR:O	2.36	0.58
12:E:219:LEU:HB3	12:E:231:TYR:HD2	1.68	0.58
15:H:244:LYS:HB3	15:H:346:ARG:HE	1.68	0.58
15:H:292:ARG:NH2	20:M:250:GLN:HG2	2.19	0.58
15:H:368:PRO:HG2	20:M:389:ALA:HB3	1.84	0.58
16:I:176:LEU:HA	16:I:182:SER:O	2.02	0.58
16:I:244:LYS:HB3	16:I:344:ASP:CG	2.28	0.58
17:J:96:VAL:HB	17:J:120:TYR:O	2.03	0.58
18:K:161:MET:HB2	18:K:235:ILE:HG23	1.84	0.58
20:M:164:ASP:O	20:M:269:LEU:HD11	2.04	0.58
20:M:310:ASN:O	20:M:314:GLY:N	2.37	0.58
21:N:124:TYR:HB2	21:N:162:ARG:HH11	1.68	0.58
22:O:211:GLN:NE2	22:O:241:THR:HA	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:384:MET:HG3	28:U:190:LEU:HB2	1.85	0.58
23:P:55:SER:C	23:P:88:GLN:HE22	2.12	0.58
24:Q:264:TYR:HE1	24:Q:328:ASP:HB3	1.67	0.58
24:Q:402:THR:O	24:Q:403:PRO:C	2.46	0.58
25:R:28:GLU:OE1	25:R:320:LYS:HG3	2.04	0.58
26:S:199:GLU:N	26:S:200:GLU:HA	2.18	0.58
27:T:122:PHE:CZ	27:T:145:PRO:HB2	2.38	0.58
29:V:119:SER:H	29:V:122:ASP:HB2	1.67	0.58
31:X:15:CYS:H	31:X:99:PHE:HA	1.69	0.58
33:Z:623:ARG:HG3	33:Z:739:ALA:CB	2.34	0.58
11:d:150:THR:HG22	11:d:156:TYR:HB3	1.84	0.58
11:d:163:THR:HG21	11:d:171:VAL:HG13	1.84	0.58
12:e:213:ASP:N	12:e:216:ASN:OD1	2.26	0.58
7:l:111:GLU:HG2	7:l:117:LEU:HD22	1.84	0.58
7:l:125:ALA:O	7:l:129:PHE:N	2.19	0.58
2:9:52:GLY:N	2:9:158:GLN:HE21	1.99	0.58
2:9:77:PRO:HA	2:9:83:VAL:HA	1.84	0.58
2:9:117:GLU:HB3	13:F:139:LYS:HB3	1.85	0.58
11:D:212:ILE:HB	11:D:224:LEU:HB2	1.84	0.58
12:E:51:GLU:HG2	12:E:53:ARG:HB2	1.85	0.58
13:F:13:PHE:H	14:G:23:GLN:HE22	1.51	0.58
13:F:110:HIS:HB3	14:G:86:ARG:NH2	2.19	0.58
13:F:157:TYR:CZ	14:G:60:VAL:HG13	2.38	0.58
14:G:126:TYR:O	14:G:129:VAL:HG22	2.03	0.58
15:H:426:ALA:HA	15:H:429:PHE:CD2	2.38	0.58
21:N:601:THR:HG22	21:N:605:ILE:HG13	1.85	0.58
22:O:190:TYR:HA	22:O:193:LEU:HB3	1.84	0.58
23:P:334:ASN:O	23:P:337:HIS:N	2.36	0.58
24:Q:10:GLU:O	24:Q:14:LEU:N	2.26	0.58
24:Q:389:VAL:H	24:Q:397:LEU:HG	1.66	0.58
25:R:141:TYR:HD2	25:R:150:ALA:HB2	1.69	0.58
27:T:66:ALA:HB2	27:T:81:TYR:HB2	1.84	0.58
28:U:165:GLU:HA	28:U:168:GLU:HB3	1.86	0.58
28:U:292:ILE:HA	28:U:295:LYS:HB3	1.85	0.58
32:Y:83:ARG:O	32:Y:87:GLU:HG3	2.02	0.58
33:Z:780:MET:CE	33:Z:789:GLN:H	2.16	0.58
8:a:41:ASN:H	8:a:56:GLN:CD	2.10	0.58
9:b:227:ILE:HG22	9:b:230:ASP:H	1.68	0.58
11:d:188:VAL:HG21	11:d:216:LYS:HE2	1.85	0.58
12:e:167:TYR:CE2	13:f:57:SER:HB3	2.39	0.58
13:f:13:PHE:H	14:g:23:GLN:NE2	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:227:GLY:O	13:f:230:VAL:HG22	2.03	0.58
14:g:220:SER:O	14:g:226:GLY:N	2.32	0.58
3:h:76:ASP:O	3:h:80:TYR:N	2.19	0.58
4:i:33:VAL:HG22	4:i:188:ILE:HD11	1.86	0.58
4:4:34:GLY:N	4:4:154:LEU:O	2.28	0.58
5:5:11:ILE:HG21	5:5:142:ALA:HB3	1.86	0.58
2:9:116:ALA:O	2:9:119:ALA:N	2.24	0.58
2:9:117:GLU:CD	2:9:117:GLU:H	2.12	0.58
9:B:98:LYS:HG3	9:B:103:GLU:N	2.18	0.58
10:C:16:GLU:N	10:C:16:GLU:OE1	2.36	0.58
10:C:16:GLU:O	11:D:29:ARG:NH1	2.33	0.58
12:E:13:SER:HB2	13:F:126:ARG:HD3	1.84	0.58
12:E:213:ASP:N	12:E:216:ASN:OD1	2.26	0.58
13:F:40:SER:N	13:F:43:HIS:O	2.36	0.58
14:G:9:ASP:HB3	14:G:22:PHE:HD2	1.68	0.58
14:G:150:MET:H	14:G:160:TYR:HE2	1.52	0.58
15:H:224:VAL:HG22	15:H:243:PRO:HG2	1.85	0.58
17:J:26:LYS:NZ	21:N:156:ILE:HD13	2.19	0.58
18:K:189:GLU:HA	18:K:192:LEU:HD12	1.85	0.58
18:K:283:ASP:HB3	18:K:285:GLN:NE2	2.08	0.58
19:L:85:GLU:HA	19:L:88:TYR:CD2	2.38	0.58
19:L:193:LEU:HB3	19:L:197:ILE:HD12	1.86	0.58
20:M:377:GLN:HA	20:M:380:ALA:HB3	1.85	0.58
21:N:60:MET:HA	21:N:88:ARG:HG3	1.84	0.58
21:N:286:LEU:O	21:N:290:LEU:HG	2.03	0.58
21:N:510:HIS:HB2	21:N:513:ILE:HB	1.85	0.58
22:O:99:LEU:CD1	22:O:132:GLU:HA	2.33	0.58
23:P:80:THR:O	23:P:84:LYS:HG3	2.04	0.58
23:P:366:ASN:OD1	23:P:376:THR:OG1	2.15	0.58
25:R:90:GLU:HG3	25:R:91:TRP:HD1	1.66	0.58
25:R:347:THR:HA	25:R:388:VAL:O	2.04	0.58
26:S:337:ASN:H	26:S:339:GLN:NE2	2.00	0.58
28:U:38:LEU:O	28:U:49:THR:N	2.37	0.58
28:U:117:ASN:ND2	28:U:139:ALA:O	2.36	0.58
30:W:15:TYR:C	30:W:25:ARG:HD3	2.29	0.58
33:Z:346:LEU:HG	33:Z:352:LYS:NZ	2.19	0.58
33:Z:524:ALA:HB1	33:Z:565:PHE:CD2	2.38	0.58
33:Z:584:VAL:HG13	33:Z:585:LEU:H	1.68	0.58
33:Z:924:LYS:NZ	33:Z:926:ASN:HD21	2.02	0.58
9:b:218:ASN:OD1	9:b:236:ARG:NH2	2.37	0.58
10:c:13:PHE:HE2	11:d:128:PRO:HD2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:97:VAL:O	12:e:101:LEU:N	2.29	0.58
3:h:196:VAL:N	3:h:203:GLU:O	2.34	0.58
4:i:175:LEU:HD22	4:i:179:GLU:HB3	1.85	0.58
6:k:143:LEU:HD22	6:k:147:HIS:HE1	1.68	0.58
1:l:212:GLU:HB3	4:4:58:LYS:HD3	1.86	0.58
3:3:116:ILE:O	3:3:132:ILE:N	2.29	0.58
5:5:11:ILE:HD12	5:5:146:LEU:HD11	1.85	0.58
6:6:21:VAL:HB	6:6:29:LYS:H	1.69	0.58
8:A:46:ARG:NH2	8:A:167:LYS:HA	2.19	0.58
8:A:158:ASP:OD2	8:A:162:TYR:HB3	2.04	0.58
11:D:81:ASP:CG	11:D:127:ARG:HH22	2.10	0.58
16:I:160:LEU:HD12	16:I:184:VAL:HG13	1.85	0.58
16:I:430:ALA:HA	16:I:433:GLU:HB2	1.85	0.58
17:J:154:THR:O	17:J:158:LYS:N	2.26	0.58
20:M:244:LEU:HB3	20:M:278:ILE:HA	1.85	0.58
20:M:295:LYS:HB3	20:M:302:GLN:OE1	2.04	0.58
20:M:375:ASN:HD21	20:M:377:GLN:NE2	1.98	0.58
21:N:310:ASP:HB2	21:N:787:MET:HG2	1.86	0.58
21:N:402:GLY:HA2	21:N:405:LEU:HD12	1.86	0.58
21:N:424:LYS:HA	21:N:427:ILE:HD12	1.86	0.58
21:N:771:PHE:HD2	21:N:773:MET:SD	2.27	0.58
23:P:91:LEU:HB3	23:P:95:TYR:OH	2.03	0.58
23:P:133:GLU:HB2	23:P:136:ARG:HH21	1.68	0.58
23:P:234:TYR:HB2	23:P:271:SER:HB3	1.86	0.58
23:P:381:SER:HG	24:Q:350:ILE:HG23	1.60	0.58
23:P:410:GLN:HB3	23:P:414:GLU:CD	2.29	0.58
24:Q:423:VAL:HB	25:R:413:LYS:NZ	2.19	0.58
25:R:37:LYS:H	25:R:42:GLN:CD	2.12	0.58
26:S:385:SER:HA	26:S:388:ILE:HD12	1.86	0.58
26:S:419:VAL:O	26:S:423:VAL:HG12	2.04	0.58
27:T:90:PHE:HE2	27:T:129:LEU:HD12	1.68	0.58
33:Z:253:VAL:HB	33:Z:254:PRO:HD3	1.85	0.58
33:Z:601:VAL:HG13	33:Z:620:LEU:HD11	1.85	0.58
33:Z:748:LEU:O	33:Z:749:GLY:C	2.46	0.58
33:Z:805:LEU:HD22	33:Z:840:ARG:NH2	2.19	0.58
33:Z:878:LEU:HA	33:Z:881:ILE:HD12	1.85	0.58
9:b:160:LYS:HD2	10:c:56:LEU:HA	1.85	0.58
9:b:200:VAL:HG21	9:b:204:PHE:HD1	1.68	0.58
13:f:148:GLN:O	13:f:151:GLY:N	2.32	0.58
3:h:20:THR:C	3:h:188:SER:OG	2.45	0.58
5:j:21:VAL:HG13	5:j:119:PRO:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:76:THR:N	7:l:245:TYR:O	2.36	0.58
7:l:137:GLN:O	7:l:141:HIS:N	2.21	0.58
2:2:42:THR:HG21	2:2:58:ASP:OD2	2.03	0.58
2:2:117:GLU:HB3	13:f:139:LYS:HE3	1.86	0.58
3:3:172:ASP:C	3:3:176:HIS:HD1	2.12	0.58
4:4:236:ARG:CZ	5:5:161:GLU:HB2	2.34	0.58
1:8:64:ASP:HA	1:8:70:VAL:HA	1.85	0.58
2:9:152:VAL:HG11	2:9:235:LYS:HA	1.84	0.58
18:K:157:SER:O	18:K:244:HIS:NE2	2.37	0.58
18:K:215:PRO:C	18:K:217:THR:H	2.10	0.58
18:K:298:GLU:O	18:K:302:GLN:HG3	2.04	0.58
19:L:278:ILE:N	19:L:322:LYS:O	2.28	0.58
21:N:69:TYR:HE2	21:N:81:TYR:HD2	1.52	0.58
21:N:325:PHE:HD2	29:V:184:ASN:HB2	1.68	0.58
21:N:494:LYS:HE3	21:N:497:ALA:HB2	1.86	0.58
22:O:384:MET:HG2	28:U:190:LEU:HD13	1.86	0.58
23:P:198:VAL:HG22	23:P:201:ARG:HH21	1.69	0.58
24:Q:390:LEU:HA	24:Q:396:TRP:O	2.03	0.58
25:R:168:ILE:CG2	25:R:206:ARG:HE	2.16	0.58
26:S:355:GLY:HA3	26:S:387:VAL:HB	1.85	0.58
28:U:114:THR:OG1	28:U:118:PRO:HB3	2.03	0.58
28:U:141:GLU:HA	28:U:152:LYS:HA	1.85	0.58
28:U:294:ASN:O	28:U:298:ASN:N	2.26	0.58
29:V:48:GLU:HG2	29:V:111:HIS:CE1	2.39	0.58
29:V:111:HIS:HB3	29:V:114:PHE:HD2	1.68	0.58
30:W:6:THR:N	30:W:48:THR:O	2.37	0.58
33:Z:214:HIS:C	33:Z:216:GLY:N	2.59	0.58
33:Z:784:SER:CA	33:Z:788:PRO:CB	2.56	0.58
33:Z:821:GLY:HA3	33:Z:862:MET:HB2	1.85	0.58
11:d:26:ALA:O	11:d:30:GLY:N	2.34	0.58
13:f:36:VAL:N	13:f:47:VAL:O	2.27	0.58
14:g:9:ASP:HB3	14:g:22:PHE:HD2	1.68	0.58
7:7:93:SER:OG	7:7:104:GLN:O	2.20	0.57
10:C:146:TYR:HE1	10:C:216:ILE:HG22	1.67	0.57
11:D:226:SER:O	11:D:230:ASN:N	2.24	0.57
12:E:241:LYS:NZ	12:E:245:GLU:OE2	2.36	0.57
15:H:180:LYS:HE3	15:H:183:ILE:HD11	1.85	0.57
15:H:318:ARG:HE	15:H:326:ASP:CG	2.12	0.57
16:I:271:PHE:CE2	16:I:273:ARG:HB2	2.39	0.57
17:J:195:LYS:H	17:J:255:SER:HB3	1.69	0.57
17:J:327:ILE:HG21	17:J:355:GLY:HA2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:380:GLU:O	17:J:384:LEU:HG	2.04	0.57
18:K:153:ASP:OD2	19:L:126:ARG:NH1	2.37	0.57
18:K:214:PRO:O	18:K:217:THR:OG1	2.22	0.57
19:L:131:VAL:HB	19:L:135:VAL:HG21	1.85	0.57
21:N:69:TYR:O	21:N:73:GLY:N	2.36	0.57
21:N:324:LYS:HB2	21:N:328:PHE:H	1.69	0.57
22:O:43:GLU:CA	22:O:47:LYS:HD3	2.34	0.57
22:O:82:LEU:N	22:O:85:SER:H	2.02	0.57
24:Q:83:GLU:O	24:Q:87:GLN:N	2.34	0.57
24:Q:141:LEU:HA	24:Q:144:LEU:HD12	1.86	0.57
25:R:67:CYS:HA	25:R:92:ILE:HD11	1.86	0.57
25:R:131:ALA:HA	25:R:134:TRP:HD1	1.67	0.57
25:R:218:CYS:O	25:R:223:ASN:N	2.37	0.57
25:R:392:ARG:NH1	25:R:392:ARG:HG3	2.18	0.57
28:U:57:GLU:HB3	28:U:67:PHE:HB3	1.86	0.57
28:U:77:ASN:HB3	28:U:81:LYS:NZ	2.18	0.57
30:W:125:LEU:HD11	30:W:157:PHE:HB2	1.85	0.57
31:X:10:PHE:HD2	31:X:35:ILE:H	1.52	0.57
31:X:38:ASN:N	31:X:45:PHE:O	2.37	0.57
8:a:182:LEU:O	8:a:186:PHE:N	2.22	0.57
11:d:81:ASP:CG	11:d:127:ARG:HH22	2.10	0.57
11:d:171:VAL:HG23	11:d:198:SER:HB2	1.85	0.57
12:e:201:LEU:HD12	12:e:212:LEU:HD11	1.84	0.57
14:g:51:GLU:HG3	14:g:212:PHE:CD2	2.39	0.57
3:h:78:VAL:HG11	3:h:101:PHE:CE2	2.38	0.57
6:k:14:ILE:HG12	6:k:183:ILE:HG12	1.84	0.57
6:k:66:LEU:HG	6:k:70:ARG:HH12	1.68	0.57
6:k:184:VAL:HG22	6:k:189:ILE:HG12	1.86	0.57
5:5:21:VAL:HG13	5:5:119:PRO:HB3	1.86	0.57
7:7:142:GLU:HG2	7:7:147:GLU:O	2.04	0.57
1:8:30:THR:HA	1:8:159:GLY:HA3	1.86	0.57
9:B:32:VAL:HA	9:B:166:LYS:NZ	2.19	0.57
9:B:218:ASN:OD1	9:B:236:ARG:NH2	2.37	0.57
13:F:232:LYS:HE2	13:F:233:TYR:CE2	2.39	0.57
14:G:205:GLU:HA	14:G:208:LYS:HB3	1.86	0.57
17:J:247:MET:HG2	17:J:269:GLN:HE22	1.69	0.57
21:N:314:LEU:HD22	21:N:339:MET:SD	2.44	0.57
21:N:387:ALA:HA	21:N:390:LEU:HD12	1.86	0.57
24:Q:14:LEU:HA	24:Q:17:GLU:HB2	1.84	0.57
24:Q:151:TYR:HB3	24:Q:184:VAL:HG13	1.86	0.57
25:R:71:LEU:HG	25:R:72:VAL:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:232:MET:O	26:S:236:LEU:N	2.23	0.57
28:U:132:LEU:HD22	28:U:134:THR:HB	1.86	0.57
29:V:145:GLN:O	29:V:148:LYS:HG2	2.04	0.57
33:Z:310:LEU:HA	33:Z:313:ILE:HB	1.85	0.57
33:Z:429:ASN:OD1	33:Z:430:LEU:N	2.37	0.57
33:Z:886:VAL:HG13	33:Z:894:MET:HE2	1.86	0.57
8:a:220:LYS:HB2	8:a:238:ALA:HB1	1.84	0.57
10:c:146:TYR:OH	10:c:218:LYS:N	2.37	0.57
4:i:203:ASP:OD2	4:i:217:ARG:NH1	2.38	0.57
2:2:56:ALA:HA	2:2:75:LEU:HD11	1.86	0.57
4:4:112:LEU:O	4:4:116:LEU:N	2.24	0.57
5:5:114:SER:HA	5:5:192:LYS:HE2	1.87	0.57
1:8:57:ARG:HH22	4:i:193:TRP:C	2.11	0.57
1:8:89:ASN:ND2	13:F:97:LEU:HD11	2.19	0.57
9:B:186:GLU:HA	9:B:189:ILE:HD12	1.86	0.57
13:F:10:THR:O	14:G:130:ARG:HD3	2.03	0.57
14:G:16:SER:OG	14:G:20:ARG:N	2.37	0.57
14:G:43:ASN:OD1	14:G:44:ASP:N	2.32	0.57
14:G:77:VAL:O	14:G:137:ILE:N	2.37	0.57
15:H:335:GLU:HA	20:M:249:PRO:HG2	1.87	0.57
15:H:399:GLU:N	15:H:437:VAL:HB	2.19	0.57
15:H:418:GLU:HG2	16:I:368:PRO:HB2	1.85	0.57
18:K:158:ILE:H	18:K:244:HIS:CE1	2.21	0.57
18:K:245:LYS:HZ3	19:L:256:ILE:H	1.51	0.57
20:M:331:ASP:CG	20:M:332:VAL:H	2.12	0.57
21:N:46:ILE:HA	21:N:49:LEU:HD12	1.85	0.57
21:N:503:THR:O	21:N:507:GLU:N	2.28	0.57
22:O:102:LEU:HD21	22:O:128:LEU:HD13	1.86	0.57
23:P:247:THR:O	23:P:250:ILE:HB	2.04	0.57
24:Q:182:SER:O	24:Q:186:HIS:N	2.31	0.57
24:Q:221:MET:HA	24:Q:224:ILE:HB	1.85	0.57
25:R:286:LEU:C	25:R:288:SER:H	2.11	0.57
26:S:338:MET:H	26:S:342:LEU:H	1.50	0.57
27:T:87:PRO:HA	27:T:90:PHE:O	2.04	0.57
27:T:142:LEU:O	27:T:145:PRO:HD2	2.04	0.57
31:X:113:GLU:OE1	31:X:115:SER:OG	2.16	0.57
33:Z:275:GLN:HB3	33:Z:278:LEU:HB2	1.77	0.57
33:Z:517:ASP:O	33:Z:522:THR:N	2.37	0.57
33:Z:793:PHE:CZ	33:Z:827:LEU:HD12	2.39	0.57
33:Z:890:SER:OG	33:Z:898:HIS:HA	2.04	0.57
9:b:196:LEU:HD12	9:b:199:SER:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:111:LEU:O	10:c:114:ARG:HB3	2.04	0.57
10:c:137:TYR:HE2	10:c:151:SER:HB3	1.69	0.57
13:f:123:TYR:CB	14:g:128:SER:HB2	2.34	0.57
1:8:157:ALA:N	1:8:166:MET:SD	2.78	0.57
2:9:42:THR:HG21	2:9:58:ASP:OD2	2.03	0.57
2:9:56:ALA:HA	2:9:75:LEU:HD11	1.86	0.57
2:9:226:ARG:NH1	3:h:213:GLU:OE1	2.36	0.57
11:D:21:GLU:HA	11:D:24:LEU:HD12	1.85	0.57
11:D:135:ILE:HB	11:D:148:TYR:HB2	1.85	0.57
13:F:76:GLY:HA3	13:F:130:VAL:HA	1.84	0.57
15:H:170:GLU:O	15:H:173:ARG:N	2.37	0.57
16:I:341:ASP:O	16:I:367:ARG:NH1	2.37	0.57
16:I:428:LEU:HD23	16:I:431:LEU:HD12	1.86	0.57
17:J:70:SER:O	18:K:118:TYR:HB3	2.04	0.57
18:K:342:SER:H	18:K:344:ARG:CZ	2.16	0.57
18:K:371:LEU:HB3	18:K:375:ASN:ND2	2.19	0.57
20:M:77:TYR:HA	20:M:150:LYS:HE3	1.86	0.57
21:N:133:LEU:O	21:N:137:PHE:N	2.24	0.57
21:N:242:PHE:HA	21:N:245:LEU:HB3	1.85	0.57
23:P:263:HIS:O	23:P:266:TYR:HB3	2.04	0.57
23:P:392:LYS:H	23:P:400:VAL:HG13	1.69	0.57
24:Q:38:SER:CB	24:Q:48:ASP:HB2	2.34	0.57
24:Q:245:SER:O	24:Q:249:LEU:N	2.27	0.57
24:Q:273:ASN:HB3	24:Q:306:TYR:CZ	2.39	0.57
25:R:286:LEU:O	25:R:288:SER:N	2.36	0.57
25:R:371:PHE:CB	25:R:377:LEU:CD1	2.80	0.57
26:S:23:LYS:HA	26:S:24:LYS:CB	2.34	0.57
30:W:142:ILE:HG23	30:W:174:VAL:HG21	1.85	0.57
33:Z:135:LEU:HD13	33:Z:157:LEU:HD22	1.87	0.57
33:Z:475:GLN:O	33:Z:478:VAL:HG12	2.03	0.57
33:Z:896:LYS:HB3	33:Z:897:HIS:ND1	2.19	0.57
33:Z:922:PRO:C	33:Z:959:HIS:ND1	2.63	0.57
8:a:73:PHE:O	8:a:81:MET:N	2.26	0.57
8:a:121:MET:HA	8:a:124:LEU:HD13	1.86	0.57
8:a:147:ASP:HB3	8:a:150:LEU:HB2	1.85	0.57
10:c:16:GLU:N	10:c:16:GLU:OE1	2.36	0.57
10:c:50:ARG:N	10:c:210:ARG:O	2.38	0.57
11:d:135:ILE:HB	11:d:148:TYR:HB2	1.85	0.57
2:9:215:ARG:HG2	2:9:219:TYR:CE2	2.39	0.57
16:I:159:ILE:HD11	16:I:163:VAL:HG23	1.86	0.57
16:I:282:LYS:N	17:J:220:GLN:O	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:88:ARG:HD2	29:V:149:GLY:HA3	1.85	0.57
18:K:188:VAL:O	18:K:192:LEU:HG	2.04	0.57
20:M:417:GLU:HA	20:M:420:SER:HB2	1.87	0.57
21:N:86:LYS:HE3	21:N:132:LYS:HE2	1.86	0.57
21:N:276:GLU:O	21:N:280:GLN:N	2.36	0.57
21:N:686:ILE:HA	21:N:696:LYS:HG2	1.86	0.57
23:P:218:LEU:HA	23:P:221:TYR:HB3	1.86	0.57
24:Q:395:GLY:C	24:Q:396:TRP:HD1	2.11	0.57
25:R:374:ASN:O	25:R:375:LYS:HB2	2.04	0.57
29:V:202:ASP:CG	29:V:203:TYR:H	2.11	0.57
33:Z:138:ARG:HH21	33:Z:158:ALA:HB2	1.69	0.57
33:Z:353:VAL:HB	33:Z:922:PRO:HG2	1.85	0.57
33:Z:864:MET:SD	33:Z:877:THR:HG21	2.45	0.57
8:a:79:ILE:HA	8:a:145:SER:HB3	1.86	0.57
9:b:160:LYS:HD3	9:b:179:TRP:CH2	2.40	0.57
14:g:16:SER:OG	14:g:20:ARG:N	2.36	0.57
3:h:85:TYR:CE1	3:h:89:TYR:HD2	2.23	0.57
5:j:4:PRO:HB2	5:j:104:PHE:CG	2.40	0.57
5:j:141:THR:OG1	5:j:178:ASP:OD2	2.22	0.57
7:l:134:LEU:HD22	7:l:158:LEU:HB2	1.87	0.57
7:l:279:GLU:CD	7:l:281:SER:HB3	2.29	0.57
4:4:203:ASP:OD2	4:4:217:ARG:NH1	2.38	0.57
5:5:45:HIS:HB2	5:5:50:PHE:CD1	2.40	0.57
6:6:66:LEU:HG	6:6:70:ARG:HH12	1.68	0.57
1:8:127:HIS:CE1	1:8:143:SER:HB2	2.39	0.57
1:8:130:ILE:HD11	1:8:142:TYR:HD2	1.70	0.57
8:A:68:THR:HG21	14:G:159:GLY:HA3	1.87	0.57
8:A:199:TRP:O	8:A:203:VAL:N	2.26	0.57
12:E:45:GLY:HA2	12:E:153:TYR:CZ	2.40	0.57
14:G:52:LYS:N	14:G:213:GLU:O	2.29	0.57
15:H:183:ILE:HG23	15:H:184:GLU:HA	1.86	0.57
16:I:275:VAL:HG12	16:I:277:SER:N	2.20	0.57
16:I:281:GLN:HG2	17:J:223:ILE:C	2.29	0.57
17:J:37:LYS:NZ	18:K:62:THR:OG1	2.27	0.57
17:J:225:GLU:HG2	18:K:283:ASP:HA	1.86	0.57
18:K:243:VAL:CG1	19:L:257:GLY:HA2	2.24	0.57
20:M:180:TYR:OH	20:M:235:CYS:SG	2.63	0.57
20:M:248:ALA:O	20:M:252:VAL:HG23	2.04	0.57
21:N:187:ASN:O	21:N:191:THR:N	2.36	0.57
21:N:499:HIS:O	21:N:503:THR:N	2.25	0.57
21:N:629:CYS:HA	21:N:632:LYS:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:773:MET:HG3	21:N:884:PHE:CD1	2.39	0.57
23:P:124:VAL:C	23:P:136:ARG:HB3	2.30	0.57
23:P:168:TYR:HB3	23:P:170:SER:H	1.70	0.57
24:Q:41:ALA:O	24:Q:84:TYR:HB3	2.05	0.57
24:Q:232:TYR:CZ	24:Q:271:MET:HB3	2.40	0.57
24:Q:362:ILE:HA	24:Q:365:ILE:HB	1.86	0.57
25:R:369:GLY:O	25:R:372:ILE:CD1	2.47	0.57
25:R:400:TYR:OH	26:S:461:PHE:HZ	1.80	0.57
28:U:7:LYS:HB3	28:U:157:LEU:HD23	1.87	0.57
28:U:141:GLU:N	28:U:153:THR:HB	2.20	0.57
33:Z:329:ILE:O	33:Z:333:GLY:HA2	2.04	0.57
33:Z:758:LEU:HB2	33:Z:788:PRO:O	2.05	0.57
9:b:5:TYR:HH	14:g:127:ASN:CG	2.12	0.57
9:b:20:GLN:O	9:b:24:ALA:N	2.29	0.57
9:b:98:LYS:HG3	9:b:103:GLU:N	2.18	0.57
10:c:16:GLU:O	11:d:29:ARG:NH1	2.29	0.57
11:d:21:GLU:HA	11:d:24:LEU:HD12	1.85	0.57
12:e:45:GLY:HA2	12:e:153:TYR:CZ	2.40	0.57
12:e:176:SER:O	12:e:180:GLN:N	2.28	0.57
14:g:35:THR:O	14:g:79:SER:OG	2.14	0.57
14:g:178:LYS:HB3	14:g:182:HIS:CE1	2.39	0.57
14:g:201:TYR:HB3	14:g:247:ILE:HD12	1.85	0.57
3:h:102:LYS:O	3:h:106:TYR:N	2.27	0.57
5:j:11:ILE:HG21	5:j:142:ALA:HB3	1.86	0.57
2:2:117:GLU:CD	2:2:117:GLU:H	2.12	0.57
3:3:88:GLN:HB3	3:3:89:TYR:CE1	2.40	0.57
4:4:33:VAL:HG22	4:4:188:ILE:HD11	1.86	0.57
5:5:30:GLY:HA2	5:5:36:VAL:HG23	1.84	0.57
7:7:252:LEU:O	7:7:263:HIS:N	2.29	0.57
2:9:46:SER:N	2:9:175:LEU:O	2.38	0.57
8:A:171:THR:HA	8:A:175:GLN:CD	2.30	0.57
8:A:194:ILE:HG22	8:A:196:GLU:H	1.70	0.57
10:C:194:LEU:HD23	10:C:197:LEU:HD12	1.87	0.57
15:H:364:ALA:HA	15:H:367:ARG:HG3	1.86	0.57
15:H:454:TYR:CE1	15:H:456:LYS:HB2	2.39	0.57
17:J:186:ILE:HG21	17:J:313:LYS:HG3	1.87	0.57
17:J:253:ILE:HA	17:J:295:ASN:ND2	2.19	0.57
17:J:339:ARG:HE	25:R:238:PHE:CA	2.17	0.57
19:L:111:GLU:HG3	19:L:117:TYR:CE1	2.37	0.57
19:L:251:ILE:C	19:L:252:VAL:CG2	2.72	0.57
19:L:262:ILE:HG22	19:L:266:MET:HE2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:290:ARG:C	20:M:294:GLU:HA	2.30	0.57
19:L:327:THR:HG21	19:L:330:PRO:HA	1.87	0.57
20:M:81:ASN:HB3	20:M:143:ASN:H	1.68	0.57
20:M:161:SER:OG	20:M:164:ASP:OD2	2.10	0.57
20:M:186:LEU:HD13	20:M:231:LEU:HD11	1.86	0.57
21:N:563:GLY:HA2	21:N:594:VAL:HG12	1.85	0.57
21:N:626:GLY:HA2	21:N:663:ILE:HD11	1.87	0.57
21:N:720:ALA:HA	21:N:723:GLY:HA2	1.86	0.57
21:N:745:LEU:O	21:N:747:HIS:N	2.38	0.57
23:P:395:ARG:NH2	24:Q:365:ILE:HA	2.19	0.57
24:Q:250:THR:O	24:Q:253:ASN:HB3	2.05	0.57
24:Q:314:PHE:CB	24:Q:339:TYR:CD1	2.88	0.57
25:R:200:LYS:HE2	25:R:202:GLY:N	2.18	0.57
26:S:305:LYS:O	26:S:309:PHE:HB3	2.04	0.57
26:S:337:ASN:O	26:S:339:GLN:HG2	2.03	0.57
26:S:368:LYS:O	26:S:372:LEU:N	2.24	0.57
26:S:394:ILE:C	26:S:396:SER:H	2.10	0.57
27:T:15:PHE:CG	27:T:64:VAL:HG13	2.40	0.57
28:U:84:ASN:OD1	28:U:86:LYS:N	2.29	0.57
30:W:108:GLN:HB2	30:W:137:VAL:HA	1.86	0.57
33:Z:753:GLY:CA	33:Z:755:GLU:N	2.29	0.57
33:Z:762:GLY:CA	33:Z:792:VAL:HG21	2.29	0.57
8:a:92:ASN:HA	14:g:118:GLN:OE1	2.04	0.57
8:a:158:ASP:OD2	8:a:162:TYR:HB3	2.04	0.57
9:b:187:ASP:O	9:b:191:ILE:N	2.27	0.57
10:c:109:GLU:O	10:c:113:ARG:N	2.29	0.57
1:1:157:ALA:N	1:1:166:MET:SD	2.77	0.57
4:4:129:VAL:HG13	4:4:140:PHE:HB2	1.85	0.57
5:5:33:SER:HB2	7:l:243:ASP:OD1	2.05	0.57
6:6:155:GLU:HA	6:6:158:LEU:HD12	1.86	0.57
2:9:153:GLN:HB2	2:9:157:ASP:HB2	1.87	0.57
13:F:132:LEU:O	13:F:147:PHE:N	2.36	0.57
13:F:150:SER:O	14:G:83:PRO:HG2	2.04	0.57
14:G:36:THR:HA	14:G:166:GLY:HA3	1.87	0.57
14:G:178:LYS:HB3	14:G:182:HIS:CE1	2.39	0.57
16:I:137:GLU:O	16:I:170:PRO:HB3	2.05	0.57
16:I:289:ARG:HA	16:I:292:ARG:HB2	1.87	0.57
17:J:90:PRO:HG3	18:K:116:MET:HA	1.87	0.57
17:J:274:GLU:HA	17:J:277:ASN:HB2	1.86	0.57
18:K:48:TYR:CD1	21:N:156:ILE:HD11	2.40	0.57
20:M:292:ASP:OD1	20:M:292:ASP:N	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:87:ASP:CG	21:N:88:ARG:H	2.11	0.57
21:N:138:GLU:HA	21:N:141:ILE:HB	1.87	0.57
21:N:885:ILE:HD12	21:N:887:ASP:HB2	1.85	0.57
21:N:900:ASN:OD1	21:N:901:GLY:N	2.36	0.57
22:O:150:LEU:O	22:O:154:GLU:N	2.30	0.57
23:P:59:LEU:HA	23:P:62:ILE:HD12	1.87	0.57
23:P:417:HIS:HA	23:P:420:ASP:CG	2.30	0.57
24:Q:160:ASP:O	24:Q:164:GLU:N	2.22	0.57
24:Q:247:HIS:HD1	24:Q:289:GLU:HG2	1.70	0.57
25:R:96:GLN:O	25:R:100:ASN:ND2	2.38	0.57
25:R:382:ASP:OD2	26:S:399:TYR:CD2	2.58	0.57
27:T:34:LEU:HD23	27:T:37:ASN:HD22	1.70	0.57
27:T:265:ASP:HA	27:T:268:ILE:HB	1.86	0.57
28:U:8:VAL:HG12	28:U:9:THR:O	2.04	0.57
28:U:172:GLU:OE2	28:U:176:ARG:NH2	2.38	0.57
28:U:197:LEU:HG	28:U:201:GLN:HB2	1.85	0.57
33:Z:205:LEU:HD11	33:Z:232:LYS:HE2	1.87	0.57
33:Z:866:VAL:HG12	33:Z:877:THR:HB	1.85	0.57
14:g:138:PHE:N	14:g:149:TYR:O	2.30	0.57
14:g:205:GLU:HA	14:g:208:LYS:HB3	1.86	0.57
3:h:36:ASP:HB2	3:h:189:GLY:O	2.05	0.57
4:i:141:SER:HB3	4:i:154:LEU:HD13	1.86	0.57
7:l:142:GLU:HG2	7:l:147:GLU:O	2.04	0.57
1:1:76:PHE:CE2	1:1:78:ALA:HB3	2.40	0.57
1:1:127:HIS:CE1	1:1:143:SER:HB2	2.39	0.57
4:4:182:LYS:NZ	4:4:186:ASP:OD2	2.35	0.57
7:7:270:GLU:O	7:7:274:LYS:N	2.24	0.57
2:9:37:PRO:HB2	2:9:40:THR:HG22	1.87	0.57
8:A:147:ASP:HB3	8:A:150:LEU:HB2	1.85	0.57
9:B:66:LEU:HD12	9:B:235:PHE:CD2	2.40	0.57
10:C:42:ASP:OD1	10:C:186:VAL:HG23	2.05	0.57
16:I:123:LEU:HD12	16:I:126:ILE:HD12	1.87	0.57
16:I:254:THR:O	16:I:258:LEU:HB2	2.03	0.57
16:I:385:LYS:HG3	16:I:419:ILE:HD11	1.86	0.57
17:J:267:GLU:O	17:J:271:THR:OG1	2.10	0.57
18:K:67:TYR:CE1	21:N:605:ILE:HG23	2.40	0.57
21:N:419:THR:HA	21:N:422:TYR:HB3	1.86	0.57
22:O:95:SER:HB3	22:O:135:ARG:HH11	1.69	0.57
22:O:380:LEU:HD11	27:T:255:GLN:HG3	1.87	0.57
23:P:103:TYR:HA	23:P:106:SER:HB2	1.87	0.57
25:R:75:GLY:CA	25:R:92:ILE:HD13	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:200:LYS:HD3	25:R:203:ASP:N	2.14	0.57
25:R:381:ILE:O	26:S:398:THR:HB	2.04	0.57
26:S:205:ASN:HA	26:S:208:ILE:HB	1.87	0.57
26:S:335:GLN:C	26:S:337:ASN:HD22	2.10	0.57
27:T:249:MET:CA	27:T:252:GLU:OE2	2.44	0.57
28:U:93:TYR:HA	28:U:121:LEU:HB3	1.87	0.57
30:W:78:ASP:CG	30:W:79:THR:H	2.13	0.57
30:W:129:ALA:HA	30:W:132:LEU:HD12	1.86	0.57
33:Z:228:GLU:HG3	33:Z:259:PRO:HD3	1.87	0.57
33:Z:449:ALA:HA	33:Z:452:LEU:HD12	1.86	0.57
33:Z:582:ASP:OD1	33:Z:615:LEU:HD11	2.05	0.57
9:b:32:VAL:HA	9:b:166:LYS:NZ	2.19	0.57
12:e:161:SER:OG	12:e:163:THR:OG1	2.19	0.57
13:f:9:ASP:HB3	13:f:11:VAL:HG12	1.87	0.57
14:g:77:VAL:O	14:g:137:ILE:N	2.37	0.57
7:l:176:ILE:N	7:l:188:TYR:O	2.31	0.57
2:2:58:ASP:HA	2:2:228:PHE:CB	2.34	0.57
2:2:253:ASP:HA	3:3:208:TYR:CZ	2.40	0.57
5:5:18:LYS:HD3	5:5:157:ASN:HB3	1.86	0.57
1:8:76:PHE:CE2	1:8:78:ALA:HB3	2.39	0.57
8:A:209:HIS:HA	8:A:212:ASP:HB2	1.87	0.57
13:F:54:ASP:O	13:F:57:SER:OG	2.15	0.57
14:G:103:TYR:C	14:G:105:THR:H	2.12	0.57
15:H:171:GLY:C	15:H:173:ARG:N	2.60	0.57
15:H:277:SER:HA	16:I:331:ARG:NH1	2.20	0.57
16:I:159:ILE:H	16:I:165:LYS:NZ	2.00	0.57
16:I:199:LYS:CE	17:J:278:GLN:HA	2.29	0.57
18:K:361:SER:O	18:K:402:ILE:HD12	2.04	0.57
19:L:92:GLU:HA	19:L:95:ILE:HD12	1.87	0.57
19:L:181:ASP:OD1	19:L:182:GLY:N	2.37	0.57
21:N:536:ILE:HA	21:N:539:MET:HE3	1.87	0.57
22:O:64:ASN:C	22:O:66:VAL:H	2.10	0.57
23:P:311:TRP:O	23:P:315:GLN:HG2	2.05	0.57
23:P:435:LYS:O	23:P:439:MET:N	2.21	0.57
24:Q:396:TRP:N	24:Q:396:TRP:CD1	2.73	0.57
25:R:155:GLY:O	25:R:159:SER:N	2.32	0.57
25:R:256:THR:O	25:R:260:THR:N	2.38	0.57
25:R:382:ASP:CA	26:S:402:ILE:CD1	2.81	0.57
25:R:411:LEU:HA	25:R:414:LEU:HB2	1.87	0.57
30:W:66:THR:O	30:W:67:ALA:HB2	2.05	0.57
33:Z:285:ALA:HA	33:Z:293:MET:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:435:GLN:HA	33:Z:438:LYS:HD2	1.86	0.57
12:e:46:VAL:HB	12:e:222:ILE:HG22	1.87	0.57
13:f:179:PHE:HA	13:f:182:ILE:HD12	1.87	0.57
4:i:121:GLY:HA3	4:i:145:HIS:ND1	2.20	0.57
2:2:204:GLN:OE1	2:2:204:GLN:N	2.29	0.56
5:5:141:THR:OG1	5:5:178:ASP:OD2	2.22	0.56
6:6:149:ARG:N	6:6:152:MET:SD	2.78	0.56
1:8:33:GLY:N	1:8:156:ARG:O	2.37	0.56
8:A:130:GLN:NE2	9:B:128:ARG:O	2.38	0.56
9:B:160:LYS:HD3	9:B:179:TRP:CH2	2.40	0.56
15:H:190:ARG:CB	15:H:191:ILE:HA	2.24	0.56
15:H:376:GLU:HG2	15:H:377:PHE:C	2.30	0.56
17:J:174:PHE:HD2	17:J:181:GLN:HB2	1.70	0.56
17:J:188:TYR:HB3	17:J:315:GLU:HB3	1.87	0.56
18:K:96:ILE:HG12	19:L:128:ILE:HG13	1.87	0.56
20:M:263:VAL:O	20:M:267:PHE:N	2.32	0.56
21:N:34:GLN:HB2	26:S:212:SER:HB2	1.86	0.56
22:O:127:LEU:HD11	22:O:166:ARG:HG3	1.86	0.56
22:O:179:PHE:HB2	22:O:188:PHE:HD1	1.69	0.56
22:O:233:LEU:O	22:O:236:HIS:N	2.38	0.56
22:O:287:LEU:C	22:O:291:ILE:HG12	2.30	0.56
22:O:310:PHE:HA	22:O:348:VAL:HG23	1.86	0.56
22:O:373:TRP:O	22:O:377:VAL:N	2.25	0.56
23:P:133:GLU:HG2	23:P:167:THR:HB	1.86	0.56
24:Q:295:GLY:O	24:Q:299:MET:HG2	2.05	0.56
24:Q:389:VAL:CA	25:R:345:TYR:CB	2.83	0.56
26:S:185:PHE:O	26:S:188:TYR:N	2.37	0.56
26:S:345:TYR:HA	26:S:348:LEU:HD12	1.87	0.56
27:T:106:ILE:HA	27:T:109:TYR:HB3	1.87	0.56
29:V:117:TRP:CZ3	29:V:119:SER:HA	2.39	0.56
33:Z:119:LEU:O	33:Z:123:ALA:N	2.38	0.56
33:Z:352:LYS:HE2	33:Z:466:GLU:O	2.04	0.56
33:Z:364:ASN:HD22	33:Z:954:PRO:CG	2.17	0.56
33:Z:486:SER:O	33:Z:490:ILE:N	2.29	0.56
33:Z:494:GLY:C	33:Z:532:HIS:HD2	2.12	0.56
33:Z:584:VAL:O	33:Z:588:ILE:HG13	2.06	0.56
33:Z:602:LEU:HD11	33:Z:882:LEU:CD2	2.35	0.56
33:Z:966:GLU:O	33:Z:978:GLU:HA	2.04	0.56
10:c:117:ASP:O	10:c:121:GLY:N	2.37	0.56
10:c:194:LEU:HD23	10:c:197:LEU:HD12	1.87	0.56
12:e:203:ILE:O	12:e:206:GLN:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:150:SER:O	14:g:83:PRO:HG2	2.04	0.56
14:g:52:LYS:HB2	14:g:213:GLU:HB3	1.87	0.56
14:g:103:TYR:C	14:g:105:THR:H	2.12	0.56
3:h:88:GLN:HB3	3:h:89:TYR:CE1	2.40	0.56
2:2:144:TRP:O	2:2:145:ASN:ND2	2.38	0.56
4:4:121:GLY:HA3	4:4:145:HIS:ND1	2.20	0.56
5:5:4:PRO:HB2	5:5:104:PHE:CG	2.40	0.56
9:B:176:GLU:HG2	10:C:56:LEU:HD13	1.87	0.56
9:B:180:ASN:OD1	9:B:183:LEU:N	2.38	0.56
9:B:196:LEU:HD12	9:B:199:SER:HB2	1.85	0.56
10:C:50:ARG:N	10:C:210:ARG:O	2.38	0.56
10:C:146:TYR:OH	10:C:218:LYS:N	2.37	0.56
12:E:46:VAL:HB	12:E:222:ILE:HG22	1.87	0.56
15:H:331:ARG:HH21	20:M:248:ALA:N	2.04	0.56
17:J:339:ARG:HG3	25:R:237:THR:O	2.05	0.56
19:L:284:ASP:H	20:M:303:ARG:NH2	2.02	0.56
20:M:298:ASP:HB3	20:M:301:VAL:HG22	1.86	0.56
21:N:518:ALA:O	21:N:522:ALA:N	2.31	0.56
21:N:702:ALA:HA	21:N:705:ILE:HD12	1.86	0.56
21:N:760:GLY:HA3	21:N:769:PRO:O	2.05	0.56
22:O:173:SER:O	22:O:177:GLN:HG3	2.06	0.56
22:O:283:HIS:HA	22:O:286:PHE:CD2	2.40	0.56
22:O:357:ILE:C	22:O:358:ILE:HG22	2.30	0.56
22:O:385:GLU:H	28:U:190:LEU:HB2	1.70	0.56
24:Q:74:LEU:O	24:Q:78:ILE:HG13	2.05	0.56
24:Q:314:PHE:CZ	24:Q:318:LEU:HD13	2.40	0.56
25:R:335:ARG:NH2	25:R:374:ASN:HD22	1.99	0.56
26:S:342:LEU:HD12	26:S:345:TYR:HB2	1.87	0.56
27:T:211:PHE:HB3	27:T:216:GLU:OE1	2.05	0.56
29:V:260:GLU:HA	29:V:263:GLU:OE1	2.05	0.56
33:Z:147:GLU:O	33:Z:213:LYS:NZ	2.36	0.56
33:Z:959:HIS:CD2	33:Z:959:HIS:N	2.73	0.56
9:b:160:LYS:N	10:c:56:LEU:O	2.22	0.56
10:c:117:ASP:HA	10:c:120:GLN:HB3	1.87	0.56
10:c:143:ARG:HH12	6:k:73:TYR:HB2	1.70	0.56
13:f:132:LEU:O	13:f:147:PHE:N	2.36	0.56
14:g:54:ILE:H	14:g:212:PHE:HA	1.70	0.56
1:1:57:ARG:HH21	4:4:194:ASN:ND2	2.04	0.56
4:4:75:ALA:O	4:4:126:TYR:N	2.38	0.56
1:8:170:ASP:OD2	5:j:177:ARG:NH2	2.36	0.56
2:9:58:ASP:HA	2:9:228:PHE:CB	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:89:ASP:OD1	2:9:91:SER:N	2.38	0.56
2:9:144:TRP:O	2:9:145:ASN:ND2	2.38	0.56
8:A:41:ASN:OD1	8:A:174:LYS:N	2.38	0.56
9:B:57:MET:HB3	9:B:59:GLU:OE2	2.05	0.56
11:D:26:ALA:O	11:D:30:GLY:N	2.34	0.56
11:D:121:THR:OG1	11:D:122:GLN:N	2.39	0.56
15:H:98:GLN:HE21	15:H:193:PRO:CB	2.18	0.56
16:I:159:ILE:HG13	16:I:185:GLY:HA2	1.88	0.56
16:I:217:GLN:NE2	16:I:376:LEU:H	2.03	0.56
16:I:271:PHE:HA	16:I:305:ILE:HB	1.86	0.56
16:I:278:GLU:OE2	17:J:274:GLU:HB3	2.06	0.56
16:I:389:LEU:HD21	16:I:411:LYS:NZ	2.21	0.56
17:J:77:LYS:HG2	17:J:85:LEU:HD22	1.88	0.56
17:J:164:ILE:HG23	17:J:289:LYS:HD2	1.87	0.56
17:J:245:ILE:HB	17:J:290:ILE:HG12	1.88	0.56
18:K:74:HIS:HA	21:N:576:VAL:HG13	1.86	0.56
18:K:212:TYR:N	18:K:338:ILE:O	2.37	0.56
19:L:225:GLY:C	19:L:227:GLY:N	2.62	0.56
19:L:235:VAL:O	19:L:238:THR:HG22	2.05	0.56
19:L:306:MET:HA	19:L:309:LEU:HB3	1.87	0.56
19:L:306:MET:HG2	19:L:310:THR:HG23	1.86	0.56
21:N:211:PHE:HA	21:N:225:LEU:HD22	1.87	0.56
21:N:586:ALA:HA	21:N:589:ILE:HD12	1.87	0.56
21:N:899:ASN:HB2	21:N:902:VAL:HG22	1.87	0.56
22:O:12:SER:O	22:O:43:GLU:CB	2.52	0.56
22:O:233:LEU:HA	22:O:236:HIS:HD2	1.70	0.56
22:O:267:ASP:O	22:O:270:ILE:HG12	2.06	0.56
22:O:340:SER:H	22:O:349:THR:HB	1.70	0.56
22:O:357:ILE:CG2	22:O:358:ILE:H	2.00	0.56
23:P:353:ILE:HG12	23:P:357:TYR:HE2	1.70	0.56
24:Q:70:ALA:HB1	24:Q:73:LYS:HD2	1.88	0.56
24:Q:136:SER:O	24:Q:140:LYS:NZ	2.36	0.56
24:Q:314:PHE:CE1	24:Q:335:PHE:CZ	2.79	0.56
24:Q:383:ASP:HA	24:Q:384:LYS:CB	2.29	0.56
25:R:48:GLU:HB2	25:R:91:TRP:HZ3	1.70	0.56
25:R:147:LYS:NZ	25:R:186:TYR:CZ	2.55	0.56
25:R:190:LYS:O	25:R:194:VAL:N	2.24	0.56
25:R:222:ARG:NH2	32:Y:60:TRP:O	2.39	0.56
25:R:372:ILE:HG12	25:R:381:ILE:HG21	1.87	0.56
26:S:31:VAL:O	26:S:35:LEU:N	2.34	0.56
26:S:152:LEU:HD13	26:S:187:ILE:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:210:LEU:O	26:S:214:MET:N	2.23	0.56
26:S:349:THR:O	26:S:353:LYS:N	2.29	0.56
26:S:458:GLN:HA	26:S:461:PHE:CD2	2.40	0.56
27:T:258:ASN:O	27:T:262:LYS:N	2.22	0.56
28:U:196:SER:O	28:U:200:LEU:HD12	2.05	0.56
28:U:283:ARG:HH11	29:V:285:ASP:HA	1.70	0.56
29:V:126:GLN:O	29:V:130:GLU:N	2.25	0.56
29:V:186:GLN:HB3	29:V:190:HIS:CD2	2.39	0.56
30:W:17:ARG:HE	30:W:82:GLU:HG2	1.69	0.56
30:W:125:LEU:O	30:W:128:LEU:HB2	2.06	0.56
33:Z:106:TRP:O	33:Z:112:LYS:NZ	2.31	0.56
33:Z:156:HIS:O	33:Z:160:GLU:HG2	2.05	0.56
33:Z:170:GLU:HG3	33:Z:226:GLU:HG2	1.86	0.56
33:Z:916:LEU:O	33:Z:983:LEU:N	2.35	0.56
8:a:199:TRP:HA	8:a:202:VAL:HB	1.88	0.56
8:a:209:HIS:HA	8:a:212:ASP:HB2	1.87	0.56
9:b:66:LEU:HD12	9:b:235:PHE:CD2	2.40	0.56
9:b:71:ILE:HG12	9:b:138:GLY:HA3	1.86	0.56
9:b:180:ASN:OD1	9:b:183:LEU:N	2.38	0.56
13:f:232:LYS:HE2	13:f:233:TYR:CE2	2.39	0.56
3:h:47:ASN:OD1	3:h:49:VAL:HG22	2.05	0.56
5:j:45:HIS:HB2	5:j:50:PHE:CD1	2.40	0.56
5:j:109:VAL:O	5:j:122:ALA:N	2.36	0.56
5:j:193:ASP:OD1	5:j:194:GLU:N	2.38	0.56
6:k:155:GLU:HA	6:k:158:LEU:HD12	1.87	0.56
6:k:179:VAL:H	6:k:196:GLN:HE21	1.54	0.56
1:1:225:ILE:N	1:1:232:ARG:O	2.34	0.56
2:2:46:SER:N	2:2:175:LEU:O	2.38	0.56
3:3:36:ASP:HB2	3:3:189:GLY:O	2.05	0.56
3:3:81:HIS:O	3:3:85:TYR:N	2.21	0.56
6:6:179:VAL:H	6:6:196:GLN:HE21	1.54	0.56
1:8:110:ARG:HG3	12:E:102:TYR:O	2.06	0.56
8:A:22:GLU:N	8:A:22:GLU:OE1	2.38	0.56
9:B:38:LYS:HG3	9:B:43:VAL:HG22	1.87	0.56
10:C:137:TYR:HE2	10:C:151:SER:HB3	1.69	0.56
12:E:176:SER:O	12:E:180:GLN:N	2.28	0.56
13:F:9:ASP:HB3	13:F:11:VAL:HG12	1.87	0.56
13:F:13:PHE:CZ	14:G:130:ARG:NH1	2.73	0.56
13:F:77:LEU:HD12	13:F:129:GLY:HA3	1.87	0.56
14:G:178:LYS:O	14:G:182:HIS:N	2.30	0.56
18:K:158:ILE:HG12	18:K:253:MET:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:344:ARG:HG3	18:K:378:LEU:H	1.71	0.56
20:M:224:PRO:HA	20:M:228:LYS:HD3	1.88	0.56
20:M:312:LEU:CB	20:M:342:ARG:HG2	2.35	0.56
21:N:324:LYS:HE2	21:N:693:GLY:H	1.69	0.56
21:N:344:THR:HG23	21:N:375:HIS:CE1	2.40	0.56
21:N:535:LEU:HG	21:N:539:MET:HE2	1.88	0.56
22:O:29:PHE:O	22:O:33:TYR:N	2.26	0.56
22:O:48:PHE:O	22:O:81:TYR:OH	2.24	0.56
22:O:155:LYS:HA	22:O:158:ASP:OD2	2.06	0.56
22:O:333:SER:OG	23:P:305:THR:HA	2.05	0.56
23:P:181:LEU:O	23:P:185:GLU:N	2.33	0.56
23:P:292:LYS:CG	23:P:295:SER:H	2.19	0.56
23:P:432:LEU:O	23:P:436:GLU:HG3	2.06	0.56
25:R:350:LEU:HB3	25:R:386:GLY:C	2.30	0.56
29:V:257:GLU:HG2	29:V:283:THR:HG22	1.88	0.56
30:W:18:ASN:C	30:W:18:ASN:HD22	2.12	0.56
31:X:38:ASN:OD1	31:X:39:GLU:N	2.38	0.56
33:Z:106:TRP:HZ3	33:Z:198:GLU:HB2	1.68	0.56
33:Z:269:TYR:CB	33:Z:272:TYR:HE2	2.17	0.56
33:Z:761:PHE:CD2	33:Z:783:VAL:HG11	2.41	0.56
33:Z:868:ASN:HB3	33:Z:909:ARG:HH12	1.70	0.56
8:a:72:ILE:HD12	8:a:224:GLU:HG2	1.87	0.56
8:a:171:THR:HA	8:a:175:GLN:CD	2.30	0.56
10:c:99:LEU:O	10:c:103:ASN:N	2.33	0.56
14:g:150:MET:H	14:g:160:TYR:HE2	1.52	0.56
5:j:18:LYS:HD3	5:j:157:ASN:HB3	1.86	0.56
2:2:89:ASP:OD1	2:2:91:SER:N	2.38	0.56
2:2:133:MET:HE3	2:2:165:LEU:HA	1.87	0.56
3:3:47:ASN:OD1	3:3:49:VAL:HG22	2.05	0.56
6:6:171:ARG:NE	7:l:216:ASP:OD2	2.26	0.56
7:7:176:ILE:N	7:7:188:TYR:O	2.31	0.56
1:8:168:PHE:CZ	1:8:172:GLN:HG3	2.41	0.56
8:A:182:LEU:O	8:A:186:PHE:N	2.22	0.56
9:B:71:ILE:HG12	9:B:138:GLY:HA3	1.86	0.56
13:F:46:LEU:HB2	13:F:214:ALA:HB3	1.88	0.56
14:G:51:GLU:HG3	14:G:212:PHE:CD2	2.39	0.56
15:H:167:ASP:HB3	15:H:174:VAL:HG11	1.86	0.56
16:I:135:THR:HB	16:I:148:THR:HB	1.87	0.56
16:I:177:HIS:O	16:I:181:MET:HA	2.05	0.56
16:I:198:MET:SD	16:I:272:LEU:HD22	2.46	0.56
17:J:48:ARG:O	17:J:52:ASN:N	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:290:ARG:N	20:M:293:SER:O	2.38	0.56
20:M:305:MET:O	20:M:309:LEU:HG	2.06	0.56
21:N:90:ASP:HB3	21:N:93:GLU:HG3	1.86	0.56
21:N:484:GLY:HA2	21:N:487:LEU:HD12	1.86	0.56
21:N:562:THR:OG1	21:N:597:ARG:NH1	2.39	0.56
21:N:775:CYS:O	21:N:866:TYR:HB2	2.05	0.56
22:O:99:LEU:CD1	22:O:132:GLU:HB3	2.36	0.56
22:O:242:ILE:O	22:O:244:ASN:HB2	2.05	0.56
23:P:276:LEU:C	23:P:280:LEU:HG	2.30	0.56
24:Q:190:ASN:CB	24:Q:193:LYS:HD2	2.35	0.56
25:R:200:LYS:HD2	25:R:202:GLY:H	1.69	0.56
26:S:266:SER:O	26:S:270:ALA:N	2.29	0.56
27:T:34:LEU:HB2	27:T:40:LEU:HB2	1.88	0.56
28:U:6:GLU:HB3	28:U:46:ILE:HG13	1.86	0.56
28:U:27:THR:HG23	28:U:31:LYS:HB2	1.88	0.56
28:U:290:ASP:O	28:U:293:GLU:HB3	2.06	0.56
33:Z:298:PHE:CE1	33:Z:307:HIS:HE1	2.23	0.56
33:Z:298:PHE:C	33:Z:338:HIS:HD1	2.07	0.56
33:Z:782:ILE:HA	33:Z:785:VAL:HG22	1.87	0.56
8:a:22:GLU:N	8:a:22:GLU:OE1	2.38	0.56
8:a:167:LYS:N	9:b:55:LEU:O	2.38	0.56
9:b:38:LYS:HG3	9:b:43:VAL:HG22	1.87	0.56
10:c:9:ARG:O	10:c:12:ILE:HG12	2.06	0.56
12:e:59:LEU:HD21	12:e:64:ILE:HD11	1.87	0.56
12:e:72:ARG:O	12:e:228:PHE:N	2.37	0.56
12:e:214:GLU:HB2	12:e:233:ASN:HA	1.88	0.56
4:i:49:SER:HB3	4:i:57:ASP:HB3	1.87	0.56
4:i:75:ALA:O	4:i:126:TYR:N	2.38	0.56
4:i:182:LYS:NZ	4:i:186:ASP:OD2	2.35	0.56
6:k:21:VAL:HB	6:k:29:LYS:H	1.69	0.56
1:l:130:ILE:HD11	1:l:142:TYR:HD2	1.70	0.56
3:3:39:THR:O	3:3:46:ALA:N	2.39	0.56
3:3:89:TYR:HE2	14:G:115:ARG:NH2	2.03	0.56
5:5:135:ASP:OD1	5:5:136:PHE:N	2.29	0.56
5:5:193:ASP:OD1	5:5:194:GLU:N	2.38	0.56
1:8:47:ARG:NH1	1:8:215:ILE:O	2.39	0.56
2:9:133:MET:HE3	2:9:165:LEU:HA	1.87	0.56
8:A:79:ILE:HA	8:A:145:SER:HB3	1.86	0.56
8:A:115:ASP:OD1	8:A:116:VAL:N	2.39	0.56
9:B:188:ALA:HA	9:B:191:ILE:HD12	1.88	0.56
15:H:49:LEU:HA	16:I:115:LYS:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:60:GLU:HB3	15:H:64:LYS:HE3	1.87	0.56
15:H:247:LEU:HD21	15:H:358:PRO:HB3	1.87	0.56
16:I:281:GLN:CB	17:J:223:ILE:HG12	2.35	0.56
17:J:26:LYS:HE2	21:N:106:ILE:HD13	1.87	0.56
17:J:154:THR:HG22	17:J:158:LYS:HG3	1.86	0.56
17:J:339:ARG:HB2	25:R:236:ALA:O	2.06	0.56
18:K:216:GLY:N	18:K:220:THR:OG1	2.38	0.56
18:K:280:LYS:HA	18:K:292:VAL:HG23	1.87	0.56
19:L:74:LEU:HD13	20:M:15:ASP:OD1	2.06	0.56
19:L:303:ARG:O	19:L:307:GLU:N	2.33	0.56
22:O:371:VAL:HA	22:O:374:ASN:HB3	1.85	0.56
23:P:234:TYR:HA	23:P:237:VAL:HB	1.86	0.56
24:Q:382:LEU:CD1	24:Q:402:THR:HG21	2.32	0.56
24:Q:430:ALA:O	28:U:300:LYS:NZ	2.37	0.56
25:R:384:VAL:H	26:S:402:ILE:HG21	1.71	0.56
26:S:159:ASN:O	26:S:163:VAL:N	2.25	0.56
26:S:344:PRO:O	26:S:348:LEU:N	2.25	0.56
29:V:84:ASP:HB3	29:V:87:PHE:CD2	2.41	0.56
33:Z:141:SER:HB2	33:Z:144:SER:HB3	1.87	0.56
33:Z:272:TYR:HB2	33:Z:276:ASN:HA	1.88	0.56
33:Z:358:TYR:CZ	33:Z:913:ILE:O	2.59	0.56
33:Z:584:VAL:CG1	33:Z:585:LEU:N	2.68	0.56
33:Z:820:ALA:HA	33:Z:854:LEU:O	2.06	0.56
12:e:110:GLU:O	12:e:114:GLN:N	2.32	0.56
3:h:39:THR:O	3:h:46:ALA:N	2.39	0.56
3:h:78:VAL:HG22	3:h:100:VAL:HG12	1.87	0.56
1:1:168:PHE:CZ	1:1:172:GLN:HG3	2.41	0.56
2:2:48:LYS:HB3	2:2:53:VAL:HG12	1.88	0.56
2:2:153:GLN:HB2	2:2:157:ASP:HB2	1.87	0.56
2:2:161:ARG:HG3	2:2:171:SER:HB2	1.88	0.56
3:3:166:SER:OG	3:3:169:GLU:N	2.27	0.56
4:4:49:SER:HB3	4:4:57:ASP:HB3	1.87	0.56
5:5:105:VAL:C	5:5:107:PRO:HD3	2.31	0.56
6:6:35:THR:OG1	6:6:44:MET:O	2.16	0.56
6:6:46:PHE:HD1	6:6:53:THR:HG1	1.54	0.56
7:7:255:VAL:HA	7:7:260:TRP:HA	1.88	0.56
1:8:240:ARG:HB2	4:i:193:TRP:HZ3	1.70	0.56
12:E:214:GLU:HB2	12:E:233:ASN:HA	1.88	0.56
13:F:179:PHE:HA	13:F:182:ILE:HD12	1.87	0.56
15:H:96:PRO:HD3	16:I:138:GLU:HG3	1.71	0.56
15:H:96:PRO:N	16:I:138:GLU:HG3	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:331:ARG:HH21	20:M:248:ALA:H	1.54	0.56
15:H:341:ASP:OD2	15:H:367:ARG:NH2	2.38	0.56
16:I:255:GLY:HA3	16:I:377:PHE:CG	2.40	0.56
17:J:252:SER:H	17:J:294:THR:CB	2.18	0.56
18:K:206:PRO:HB3	18:K:335:ASP:HB2	1.87	0.56
18:K:216:GLY:HA3	19:L:313:ASP:CG	2.30	0.56
20:M:235:CYS:HA	20:M:238:GLN:HB3	1.87	0.56
21:N:226:ASN:ND2	21:N:260:ASP:O	2.39	0.56
21:N:732:GLY:HA2	21:N:748:PHE:HB3	1.87	0.56
22:O:99:LEU:CA	22:O:132:GLU:OE1	2.54	0.56
23:P:396:PRO:HD3	24:Q:357:VAL:HA	1.88	0.56
24:Q:401:GLU:CB	25:R:392:ARG:CZ	2.82	0.56
24:Q:418:GLN:HG3	29:V:262:THR:CG2	2.35	0.56
25:R:65:TYR:CD1	25:R:68:GLU:HB2	2.41	0.56
25:R:72:VAL:HA	25:R:76:GLN:HE21	1.70	0.56
26:S:319:CYS:O	26:S:322:LEU:HB2	2.05	0.56
28:U:70:HIS:CE1	28:U:73:ILE:HB	2.41	0.56
30:W:87:MET:O	30:W:91:LEU:N	2.20	0.56
30:W:148:GLU:HB2	30:W:150:ASN:ND2	2.20	0.56
12:e:165:TYR:CE2	13:f:60:GLN:HB2	2.41	0.56
5:j:105:VAL:C	5:j:107:PRO:HD3	2.31	0.56
6:6:82:SER:HB3	10:C:103:ASN:HD22	1.70	0.56
10:C:9:ARG:O	10:C:12:ILE:HG12	2.06	0.56
12:E:78:MET:HA	12:E:142:LEU:HD23	1.88	0.56
12:E:97:VAL:O	12:E:101:LEU:N	2.29	0.56
15:H:168:ILE:N	15:H:174:VAL:HG11	2.20	0.56
16:I:228:PRO:CG	16:I:242:PRO:HB3	2.36	0.56
17:J:303:ALA:HA	17:J:306:ARG:HG3	1.88	0.56
18:K:84:GLU:O	18:K:87:LYS:HB3	2.05	0.56
20:M:371:ASP:N	20:M:409:SER:HB2	2.21	0.56
21:N:287:LEU:HA	21:N:290:LEU:HD12	1.88	0.56
21:N:360:GLN:HE22	29:V:164:LEU:HD12	1.70	0.56
21:N:773:MET:H	21:N:869:ASP:HB2	1.69	0.56
22:O:68:LYS:HD2	22:O:72:LYS:HD3	1.88	0.56
22:O:369:ARG:CZ	22:O:373:TRP:HE1	2.18	0.56
24:Q:164:GLU:O	24:Q:169:ASP:N	2.39	0.56
24:Q:411:SER:CB	29:V:258:GLU:HG3	2.35	0.56
24:Q:413:LEU:O	24:Q:417:GLY:N	2.35	0.56
25:R:225:LYS:NZ	25:R:261:LEU:HA	2.21	0.56
25:R:381:ILE:HG22	26:S:398:THR:CB	2.36	0.56
26:S:18:LEU:O	26:S:21:SER:OG	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:389:LYS:O	26:S:392:ILE:HB	2.06	0.56
28:U:283:ARG:NH1	29:V:287:THR:OG1	2.36	0.56
30:W:162:ASN:HA	30:W:168:THR:OG1	2.06	0.56
31:X:17:TYR:CE1	31:X:66:LEU:HD22	2.40	0.56
32:Y:85:LYS:O	32:Y:89:GLN:N	2.38	0.56
33:Z:137:TYR:O	33:Z:141:SER:N	2.39	0.56
33:Z:214:HIS:O	33:Z:216:GLY:N	2.39	0.56
33:Z:840:ARG:HG3	33:Z:841:GLU:HG2	1.88	0.56
33:Z:959:HIS:CD2	33:Z:959:HIS:H	2.24	0.56
33:Z:964:GLU:HG2	33:Z:965:LEU:HG	1.88	0.56
8:a:194:ILE:HG22	8:a:196:GLU:H	1.70	0.56
4:i:153:TYR:HD2	4:i:167:LEU:HD13	1.71	0.56
1:1:207:PHE:HA	1:1:210:ALA:HB3	1.88	0.56
4:4:141:SER:HB3	4:4:154:LEU:HD13	1.87	0.56
7:7:279:GLU:CD	7:7:281:SER:HB3	2.29	0.56
2:9:51:ASN:O	2:9:235:LYS:HG2	2.06	0.56
2:9:90:ILE:O	2:9:94:GLN:N	2.29	0.56
2:9:117:GLU:HB3	13:F:139:LYS:HE3	1.88	0.56
2:9:161:ARG:HG3	2:9:171:SER:HB2	1.88	0.56
8:A:71:TYR:H	8:A:224:GLU:CD	2.14	0.56
8:A:72:ILE:HD12	8:A:224:GLU:HG2	1.87	0.56
11:D:149:GLN:O	11:D:156:TYR:HA	2.05	0.56
12:E:71:ASP:N	12:E:74:ILE:O	2.27	0.56
15:H:278:GLU:C	15:H:281:GLN:HE21	2.12	0.56
16:I:248:LEU:HD12	16:I:354:ALA:HB2	1.87	0.56
17:J:97:ASP:OD1	17:J:98:VAL:N	2.36	0.56
19:L:278:ILE:HB	19:L:323:ILE:HG12	1.88	0.56
20:M:242:THR:N	20:M:276:THR:HA	2.21	0.56
22:O:189:TYR:OH	22:O:232:GLU:OE1	2.14	0.56
22:O:322:ASP:O	22:O:325:GLU:HB2	2.06	0.56
24:Q:70:ALA:O	24:Q:73:LYS:HB2	2.05	0.56
24:Q:82:THR:HG23	24:Q:93:THR:HG21	1.87	0.56
24:Q:116:PHE:O	24:Q:120:LYS:HG3	2.05	0.56
25:R:34:THR:HA	25:R:70:TYR:CD1	2.41	0.56
25:R:199:GLU:N	25:R:199:GLU:OE2	2.38	0.56
28:U:141:GLU:N	28:U:153:THR:N	2.47	0.56
29:V:54:LEU:O	29:V:66:VAL:N	2.39	0.56
30:W:5:ALA:O	30:W:109:ARG:N	2.37	0.56
33:Z:897:HIS:CD2	33:Z:899:GLN:HG2	2.36	0.56
8:a:41:ASN:OD1	8:a:174:LYS:N	2.38	0.56
8:a:71:TYR:N	8:a:224:GLU:OE2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:115:ASP:CG	4:i:101:ARG:HH22	2.14	0.56
11:d:48:ARG:N	11:d:209:ASN:O	2.32	0.56
1:1:30:THR:OG1	1:1:161:ALA:N	2.39	0.56
6:6:184:VAL:HG22	6:6:189:ILE:HG12	1.86	0.56
7:7:115:PHE:HA	7:7:259:GLY:HA3	1.88	0.56
7:7:196:ARG:NH1	11:D:101:GLU:OE2	2.39	0.56
1:8:32:LEU:HD12	1:8:156:ARG:O	2.06	0.56
10:C:38:ILE:HA	10:C:162:ALA:HA	1.87	0.56
15:H:331:ARG:NH1	20:M:282:GLU:HB2	2.21	0.56
15:H:418:GLU:O	15:H:421:SER:OG	2.09	0.56
16:I:206:GLU:HB2	16:I:261:LYS:CB	2.25	0.56
17:J:368:TYR:O	17:J:372:GLU:N	2.34	0.56
18:K:237:VAL:HB	18:K:271:ILE:HG12	1.87	0.56
19:L:149:ASP:HB3	19:L:153:LEU:N	2.21	0.56
21:N:65:ALA:HB1	21:N:69:TYR:CZ	2.41	0.56
21:N:449:GLY:O	21:N:452:LEU:HB3	2.05	0.56
22:O:102:LEU:HG	22:O:128:LEU:HD21	1.87	0.56
22:O:140:LYS:CG	22:O:181:PHE:CE2	2.89	0.56
22:O:185:PHE:HD1	22:O:188:PHE:CD2	2.24	0.56
22:O:242:ILE:HG13	22:O:243:VAL:H	1.71	0.56
23:P:147:LYS:HA	23:P:150:GLU:OE1	2.04	0.56
24:Q:30:LEU:HD22	24:Q:50:ARG:HH21	1.72	0.56
24:Q:65:TYR:HA	24:Q:70:ALA:HB3	1.88	0.56
25:R:146:ASP:O	25:R:148:ASP:OD1	2.23	0.56
25:R:263:ARG:O	25:R:267:LYS:HG2	2.06	0.56
26:S:199:GLU:O	27:T:93:ASN:ND2	2.39	0.56
28:U:72:TYR:HD1	29:V:94:MET:HG2	1.71	0.56
29:V:144:ILE:O	29:V:147:VAL:HG22	2.06	0.56
33:Z:123:ALA:C	33:Z:126:TYR:HB3	2.31	0.56
33:Z:593:HIS:CA	33:Z:596:THR:OG1	2.53	0.56
33:Z:602:LEU:HD21	33:Z:882:LEU:HD22	1.72	0.56
8:a:192:ASP:OD1	8:a:193:HIS:N	2.39	0.56
9:b:67:LEU:H	9:b:72:GLY:HA2	1.71	0.56
9:b:224:TYR:CE1	9:b:227:ILE:HD12	2.41	0.56
11:d:149:GLN:O	11:d:156:TYR:HA	2.05	0.56
5:j:114:SER:HA	5:j:192:LYS:HE2	1.87	0.56
6:k:132:ALA:HB1	6:k:136:SER:HB2	1.87	0.56
5:5:63:LEU:HD12	5:5:105:VAL:HG11	1.88	0.55
6:6:132:ALA:HB1	6:6:136:SER:HB2	1.87	0.55
8:A:192:ASP:OD1	8:A:193:HIS:N	2.39	0.55
10:C:117:ASP:HA	10:C:120:GLN:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:66:LYS:HA	15:H:69:VAL:HB	1.88	0.55
16:I:121:LYS:HG2	16:I:125:GLU:HG3	1.88	0.55
16:I:121:LYS:O	16:I:125:GLU:N	2.20	0.55
16:I:275:VAL:HG12	16:I:277:SER:H	1.71	0.55
17:J:369:ALA:O	17:J:374:ARG:N	2.39	0.55
18:K:245:LYS:HZ2	19:L:256:ILE:HG12	1.70	0.55
19:L:111:GLU:HA	19:L:117:TYR:HD1	1.69	0.55
20:M:375:ASN:ND2	20:M:378:GLU:HG3	2.20	0.55
20:M:392:LYS:HA	20:M:395:THR:HB	1.88	0.55
21:N:19:SER:O	21:N:23:TYR:HD1	1.88	0.55
22:O:302:VAL:O	22:O:305:ILE:HG13	2.06	0.55
26:S:297:ILE:HG13	26:S:298:ARG:H	1.70	0.55
28:U:285:ILE:HA	28:U:288:PHE:HB2	1.89	0.55
29:V:54:LEU:HB3	29:V:102:GLN:HB2	1.88	0.55
30:W:16:SER:HA	30:W:25:ARG:HB3	1.87	0.55
30:W:139:VAL:N	30:W:168:THR:O	2.39	0.55
33:Z:202:ARG:HD3	33:Z:205:LEU:HD12	1.88	0.55
33:Z:361:HIS:NE2	33:Z:961:GLU:OE1	2.39	0.55
33:Z:404:ASP:HB3	33:Z:408:TYR:CE2	2.39	0.55
33:Z:585:LEU:CD2	33:Z:603:VAL:HG13	2.37	0.55
3:h:122:ASP:CG	3:h:125:ASN:HD22	2.13	0.55
6:k:33:ASP:OD1	6:k:35:THR:HG22	2.06	0.55
1:l:32:LEU:HD12	1:l:156:ARG:O	2.06	0.55
1:l:47:ARG:NH1	1:l:215:ILE:O	2.39	0.55
1:l:96:PHE:CE2	13:f:89:ARG:HD3	2.41	0.55
2:2:185:ASN:O	2:2:189:ARG:N	2.21	0.55
3:3:85:TYR:CE1	3:3:89:TYR:HD2	2.23	0.55
1:8:197:GLU:HA	1:8:200:ILE:HD12	1.87	0.55
8:A:89:ASP:CG	8:A:137:LEU:HD22	2.31	0.55
9:B:95:THR:HA	9:B:99:ARG:HD2	1.87	0.55
10:C:13:PHE:CZ	11:D:127:ARG:HD2	2.41	0.55
14:G:52:LYS:HB2	14:G:213:GLU:HB3	1.87	0.55
15:H:368:PRO:CG	20:M:390:GLN:HG3	2.36	0.55
16:I:176:LEU:HD22	16:I:181:MET:O	2.06	0.55
18:K:210:LEU:HB3	18:K:337:LYS:HA	1.88	0.55
19:L:309:LEU:HB2	19:L:342:ARG:NH2	2.20	0.55
21:N:436:ASP:HB2	21:N:439:VAL:HB	1.87	0.55
23:P:406:LYS:C	23:P:410:GLN:HE22	2.14	0.55
26:S:156:VAL:HG13	26:S:188:TYR:CE1	2.38	0.55
26:S:177:ASN:HD22	26:S:228:GLU:HG2	1.71	0.55
26:S:249:SER:O	26:S:253:PHE:N	2.28	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:104:LEU:HD13	28:U:152:LYS:CE	2.35	0.55
28:U:141:GLU:H	28:U:153:THR:CB	2.20	0.55
29:V:28:TYR:O	29:V:65:VAL:N	2.38	0.55
30:W:63:SER:HB2	30:W:74:ALA:HB3	1.88	0.55
31:X:63:PRO:HG2	31:X:65:SER:O	2.07	0.55
33:Z:250:VAL:HG22	33:Z:265:LEU:HD21	1.87	0.55
33:Z:780:MET:HE1	33:Z:788:PRO:HA	1.88	0.55
33:Z:972:SER:HB3	33:Z:981:VAL:HG13	1.88	0.55
8:a:115:ASP:OD1	8:a:116:VAL:N	2.39	0.55
8:a:181:ASN:HD22	8:a:213:ALA:HB2	1.71	0.55
9:b:95:THR:HA	9:b:99:ARG:HD2	1.87	0.55
11:d:202:VAL:O	11:d:204:GLN:HG2	2.07	0.55
13:f:55:GLU:OE1	13:f:55:GLU:N	2.33	0.55
14:g:36:THR:HA	14:g:166:GLY:HA3	1.87	0.55
7:l:156:LYS:N	7:l:196:ARG:HE	2.04	0.55
1:1:33:GLY:N	1:1:156:ARG:O	2.37	0.55
2:2:230:LEU:O	2:2:242:LYS:N	2.28	0.55
3:3:122:ASP:CG	3:3:125:ASN:HD22	2.13	0.55
6:6:33:ASP:OD1	6:6:35:THR:HG22	2.06	0.55
8:A:71:TYR:N	8:A:224:GLU:OE2	2.39	0.55
8:A:181:ASN:HD22	8:A:213:ALA:HB2	1.71	0.55
15:H:101:ARG:HB2	15:H:173:ARG:CZ	2.36	0.55
15:H:340:LEU:HB3	15:H:370:ARG:HH12	1.71	0.55
16:I:215:GLU:HA	16:I:218:ILE:HD12	1.87	0.55
16:I:281:GLN:NE2	17:J:227:SER:OG	2.40	0.55
17:J:42:ARG:O	17:J:46:ALA:N	2.23	0.55
19:L:225:GLY:N	19:L:229:THR:H	2.04	0.55
19:L:227:GLY:HA2	19:L:230:LEU:HB2	1.89	0.55
19:L:252:VAL:HG21	19:L:303:ARG:NH2	2.21	0.55
20:M:289:LYS:O	20:M:295:LYS:HE2	2.05	0.55
21:N:32:VAL:HG21	21:N:64:ILE:HG12	1.89	0.55
21:N:500:ASP:O	21:N:504:TYR:N	2.28	0.55
21:N:585:ARG:CZ	21:N:616:HIS:CD2	2.90	0.55
22:O:16:MET:HA	22:O:72:LYS:NZ	2.20	0.55
22:O:321:LYS:O	22:O:324:VAL:HB	2.05	0.55
23:P:101:MET:HG3	23:P:139:VAL:HG21	1.89	0.55
23:P:158:ASP:HA	23:P:161:CYS:SG	2.47	0.55
24:Q:259:CYS:O	24:Q:263:LYS:N	2.29	0.55
24:Q:315:ASN:CG	24:Q:339:TYR:OH	2.50	0.55
26:S:246:GLU:CB	27:T:128:TYR:HB2	2.29	0.55
27:T:157:TYR:CD1	27:T:189:ILE:HD11	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:136:ALA:H	28:U:156:HIS:CD2	2.24	0.55
29:V:162:GLY:H	29:V:165:ILE:HD12	1.70	0.55
33:Z:243:GLN:OE1	33:Z:244:ARG:CA	2.55	0.55
33:Z:247:GLN:HG3	33:Z:284:LEU:HD21	1.88	0.55
33:Z:761:PHE:CE2	33:Z:783:VAL:HG11	2.41	0.55
33:Z:887:GLY:O	33:Z:889:VAL:HG13	2.06	0.55
9:b:57:MET:HB3	9:b:59:GLU:OE2	2.05	0.55
10:c:20:TYR:HB3	10:c:24:TYR:CZ	2.42	0.55
13:f:54:ASP:O	13:f:57:SER:OG	2.15	0.55
5:j:10:GLY:HA3	5:j:42:LYS:HE2	1.89	0.55
5:j:63:LEU:HD12	5:j:105:VAL:HG11	1.88	0.55
6:k:149:ARG:N	6:k:152:MET:SD	2.78	0.55
4:4:60:CYS:O	4:4:217:ARG:NH1	2.30	0.55
4:4:133:ASP:OD1	4:4:136:GLY:N	2.36	0.55
7:7:102:ALA:O	1:8:156:ARG:NH1	2.35	0.55
12:E:72:ARG:HG2	12:E:227:GLY:HA3	1.89	0.55
14:G:78:TYR:HE2	14:G:82:ILE:HA	1.71	0.55
15:H:24:ASP:CB	33:Z:218:GLU:OE1	2.55	0.55
16:I:175:LEU:O	16:I:176:LEU:HD23	2.06	0.55
16:I:249:TYR:HB3	16:I:376:LEU:HA	1.88	0.55
16:I:288:PRO:HD3	16:I:332:THR:HA	1.89	0.55
17:J:297:LEU:O	17:J:300:LEU:N	2.27	0.55
18:K:99:PHE:CD1	18:K:110:VAL:HG12	2.42	0.55
18:K:246:TYR:C	18:K:248:GLY:H	2.15	0.55
21:N:921:ARG:HA	21:N:925:ASP:HB3	1.88	0.55
22:O:383:LYS:HD2	22:O:387:ARG:HH21	1.71	0.55
24:Q:26:VAL:O	24:Q:30:LEU:N	2.36	0.55
24:Q:66:VAL:HG23	24:Q:104:PHE:CE1	2.41	0.55
24:Q:129:LYS:HZ1	9:b:187:ASP:N	1.94	0.55
24:Q:370:THR:HA	24:Q:373:VAL:CG2	2.36	0.55
24:Q:398:TYR:O	24:Q:399:VAL:HG13	2.07	0.55
25:R:71:LEU:HD12	25:R:76:GLN:HA	1.88	0.55
25:R:266:LEU:O	25:R:271:ILE:N	2.34	0.55
25:R:334:ARG:C	25:R:337:VAL:HG12	2.31	0.55
26:S:288:THR:HG22	26:S:292:TYR:CZ	2.41	0.55
28:U:10:ILE:N	28:U:160:THR:O	2.38	0.55
28:U:10:ILE:HB	28:U:161:ILE:HD13	1.86	0.55
29:V:28:TYR:N	29:V:63:VAL:O	2.40	0.55
33:Z:145:ASP:HB3	33:Z:148:GLY:O	2.06	0.55
33:Z:436:LEU:HD22	33:Z:451:ALA:HA	1.87	0.55
33:Z:848:THR:O	33:Z:852:GLN:N	2.28	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:91:ARG:HH12	14:g:157:TYR:N	2.01	0.55
9:b:97:TYR:CZ	9:b:105:PRO:HA	2.42	0.55
10:c:42:ASP:OD1	10:c:186:VAL:HG23	2.05	0.55
14:g:158:TRP:HB2	14:g:160:TYR:CE1	2.42	0.55
7:l:210:PHE:CE1	7:l:242:ARG:HG2	2.42	0.55
2:2:116:ALA:O	2:2:119:ALA:N	2.24	0.55
9:B:224:TYR:CE1	9:B:227:ILE:HD12	2.41	0.55
10:C:99:LEU:O	10:C:103:ASN:N	2.33	0.55
11:D:214:VAL:N	11:D:222:VAL:O	2.29	0.55
12:E:16:SER:HA	12:E:22:PHE:CZ	2.42	0.55
12:E:17:PRO:HA	13:F:24:TYR:CD1	2.41	0.55
13:F:123:TYR:HB2	14:G:128:SER:HB2	1.88	0.55
15:H:222:ARG:HG3	15:H:226:GLU:HB3	1.89	0.55
16:I:199:LYS:CE	16:I:261:LYS:HZ1	2.19	0.55
17:J:156:GLN:HE22	17:J:314:ILE:HG21	1.70	0.55
17:J:212:ARG:HB3	17:J:248:ASP:OD2	2.06	0.55
19:L:290:ARG:O	20:M:294:GLU:HA	2.07	0.55
21:N:361:ASN:HB3	21:N:399:PHE:CE2	2.41	0.55
21:N:515:ARG:HD3	21:N:738:GLN:OE1	2.07	0.55
21:N:526:TYR:HD1	21:N:557:LEU:HB3	1.72	0.55
21:N:578:ASP:OD1	21:N:579:SER:N	2.40	0.55
22:O:142:ASP:C	22:O:144:VAL:N	2.65	0.55
23:P:119:ILE:HG22	23:P:120:GLU:HG3	1.87	0.55
23:P:254:GLU:O	23:P:258:LYS:HG3	2.06	0.55
23:P:350:LEU:HA	23:P:353:ILE:HB	1.88	0.55
24:Q:339:TYR:CE1	24:Q:342:LEU:HD13	2.39	0.55
24:Q:389:VAL:HA	25:R:345:TYR:CB	2.37	0.55
25:R:58:GLU:HB3	25:R:105:LYS:HD2	1.87	0.55
29:V:106:GLY:HA3	29:V:137:VAL:H	1.72	0.55
32:Y:82:ASP:O	32:Y:86:ARG:N	2.35	0.55
9:b:77:GLY:HA3	9:b:132:VAL:HG12	1.89	0.55
13:f:77:LEU:HD12	13:f:129:GLY:HA3	1.87	0.55
14:g:78:TYR:HE2	14:g:82:ILE:HA	1.71	0.55
1:1:36:GLY:H	1:1:40:ALA:HA	1.71	0.55
3:3:20:THR:CB	3:3:36:ASP:CG	2.79	0.55
3:3:76:ASP:O	3:3:80:TYR:N	2.19	0.55
4:4:160:SER:O	4:4:164:MET:N	2.23	0.55
5:5:113:ASN:N	5:5:118:LYS:O	2.39	0.55
7:7:119:THR:HG21	7:7:175:MET:HB2	1.89	0.55
10:C:20:TYR:HB3	10:C:24:TYR:CZ	2.42	0.55
11:D:203:VAL:HG11	11:D:210:ILE:HG13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:227:GLU:H	11:D:227:GLU:CD	2.15	0.55
14:G:200:ILE:O	14:G:204:HIS:N	2.37	0.55
15:H:417:ALA:HB1	16:I:367:ARG:HE	1.71	0.55
16:I:270:THR:N	16:I:304:SER:HA	2.22	0.55
19:L:276:CYS:H	19:L:321:THR:HA	1.72	0.55
21:N:322:ASP:O	21:N:329:HIS:HB2	2.06	0.55
21:N:527:GLY:N	21:N:557:LEU:O	2.36	0.55
21:N:707:ASN:HA	21:N:711:ARG:HB3	1.87	0.55
22:O:289:GLN:NE2	22:O:334:LEU:HD11	2.21	0.55
22:O:340:SER:N	22:O:349:THR:HB	2.22	0.55
22:O:367:LYS:HD2	28:U:204:LEU:HB3	1.88	0.55
24:Q:71:LYS:HG3	24:Q:104:PHE:CE2	2.42	0.55
24:Q:81:SER:HA	24:Q:84:TYR:HB2	1.88	0.55
24:Q:318:LEU:HD12	24:Q:325:LEU:HD21	1.87	0.55
25:R:289:ILE:HG13	25:R:290:SER:N	2.21	0.55
26:S:167:LEU:HA	26:S:171:TYR:HE2	1.68	0.55
26:S:192:GLU:HA	26:S:194:LEU:HG	1.89	0.55
26:S:383:LEU:HA	26:S:386:ASN:HB2	1.87	0.55
27:T:89:TYR:HD1	27:T:102:LYS:HB3	1.71	0.55
29:V:69:PHE:O	29:V:108:TYR:OH	2.18	0.55
30:W:19:GLY:HA2	30:W:25:ARG:N	2.21	0.55
31:X:36:LYS:O	31:X:46:TRP:HA	2.06	0.55
33:Z:119:LEU:HA	33:Z:122:LEU:HB3	1.87	0.55
33:Z:131:LYS:CG	33:Z:135:LEU:HD22	2.36	0.55
33:Z:780:MET:CE	33:Z:788:PRO:HA	2.36	0.55
8:a:110:TYR:CE1	4:i:104:ARG:HD2	2.41	0.55
3:h:185:ASP:OD1	3:h:187:SER:N	2.39	0.55
4:i:234:PHE:CE2	5:j:169:GLN:HB2	2.41	0.55
7:l:255:VAL:HA	7:l:260:TRP:HA	1.88	0.55
7:l:276:LYS:NZ	7:l:287:GLY:O	2.24	0.55
1:1:83:LEU:HD13	1:1:124:TYR:CE2	2.42	0.55
1:1:197:GLU:HA	1:1:200:ILE:HD12	1.87	0.55
3:3:72:GLN:NE2	4:4:148:THR:O	2.34	0.55
7:7:156:LYS:N	7:7:196:ARG:HE	2.04	0.55
7:7:182:LYS:HD2	11:D:141:ARG:HH21	1.70	0.55
9:B:97:TYR:CZ	9:B:105:PRO:HA	2.42	0.55
10:C:79:GLY:HA3	10:C:133:VAL:HA	1.88	0.55
12:E:59:LEU:HD21	12:E:64:ILE:HD11	1.87	0.55
12:E:203:ILE:O	12:E:206:GLN:HB3	2.05	0.55
15:H:292:ARG:NE	20:M:250:GLN:HE21	2.04	0.55
16:I:306:VAL:HB	16:I:351:VAL:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:143:PRO:HB3	17:J:200:ARG:HH11	1.72	0.55
17:J:212:ARG:HH22	18:K:330:ARG:NH1	2.04	0.55
17:J:369:ALA:HA	17:J:372:GLU:HB2	1.89	0.55
20:M:148:VAL:HG22	20:M:155:ILE:HG12	1.88	0.55
20:M:187:ASP:HA	20:M:190:ILE:HB	1.89	0.55
21:N:36:TRP:CE2	21:N:71:ASN:HB3	2.42	0.55
21:N:362:TRP:O	21:N:366:THR:N	2.29	0.55
22:O:380:LEU:HD11	27:T:255:GLN:HA	1.88	0.55
24:Q:165:PHE:HD1	24:Q:169:ASP:HB3	1.71	0.55
25:R:280:ILE:C	25:R:282:THR:H	2.14	0.55
25:R:371:PHE:CB	25:R:377:LEU:CG	2.84	0.55
26:S:142:VAL:HA	26:S:145:PHE:CE1	2.41	0.55
26:S:351:ALA:HA	26:S:359:LYS:NZ	2.21	0.55
27:T:200:LEU:O	27:T:233:VAL:N	2.39	0.55
27:T:257:THR:O	27:T:261:GLU:HG3	2.07	0.55
28:U:57:GLU:HB2	30:W:100:HIS:CD2	2.42	0.55
28:U:104:LEU:CD1	28:U:152:LYS:HZ2	2.17	0.55
29:V:55:GLY:HA3	29:V:64:ASN:O	2.06	0.55
29:V:279:HIS:HA	29:V:282:GLU:OE1	2.07	0.55
33:Z:323:TYR:HB3	33:Z:501:LYS:HE2	1.87	0.55
33:Z:445:PRO:HA	33:Z:448:LYS:HB2	1.88	0.55
8:a:46:ARG:NH2	8:a:167:LYS:HA	2.19	0.55
11:d:203:VAL:HG11	11:d:210:ILE:HG13	1.88	0.55
13:f:19:LEU:HD11	14:g:130:ARG:HD2	1.88	0.55
3:h:26:THR:HA	3:h:31:VAL:HA	1.89	0.55
3:h:172:ASP:C	3:h:176:HIS:HD1	2.12	0.55
4:i:34:GLY:N	4:i:154:LEU:O	2.28	0.55
5:j:113:ASN:N	5:j:118:LYS:O	2.39	0.55
6:k:67:TYR:HA	6:k:70:ARG:HH11	1.71	0.55
6:k:81:SER:HB2	6:k:125:LYS:HD2	1.89	0.55
6:k:158:LEU:HD13	6:k:198:GLN:HE22	1.72	0.55
3:3:26:THR:HA	3:3:31:VAL:HA	1.89	0.55
4:4:202:VAL:HB	4:4:220:LEU:H	1.70	0.55
6:6:67:TYR:HA	6:6:70:ARG:HH11	1.71	0.55
7:7:134:LEU:HD22	7:7:158:LEU:HB2	1.87	0.55
1:8:207:PHE:HA	1:8:210:ALA:HB3	1.88	0.55
2:9:185:ASN:O	2:9:189:ARG:N	2.21	0.55
11:D:202:VAL:O	11:D:204:GLN:HG2	2.06	0.55
15:H:149:LEU:N	15:H:177:ASP:OD2	2.33	0.55
15:H:421:SER:H	16:I:369:GLY:HA2	1.72	0.55
16:I:212:GLY:HA2	16:I:391:ILE:CD1	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:111:GLN:OE1	17:J:128:ASN:HB2	2.07	0.55
17:J:130:ALA:CA	17:J:131:ASP:HB2	2.37	0.55
17:J:156:GLN:HE22	17:J:314:ILE:CG2	2.20	0.55
17:J:250:ILE:HD13	17:J:265:ASP:HB3	1.89	0.55
18:K:67:TYR:CZ	21:N:605:ILE:HG23	2.42	0.55
19:L:107:GLU:O	19:L:119:VAL:HG13	2.07	0.55
19:L:189:GLN:HE22	19:L:350:PRO:HD2	1.72	0.55
20:M:258:GLU:O	20:M:262:LEU:HG	2.07	0.55
21:N:398:ARG:HG3	21:N:438:ASP:HB3	1.87	0.55
22:O:44:SER:O	22:O:48:PHE:N	2.29	0.55
22:O:220:SER:O	22:O:224:GLY:N	2.40	0.55
23:P:276:LEU:O	23:P:279:ASP:N	2.40	0.55
24:Q:40:ALA:O	24:Q:87:GLN:HG3	2.07	0.55
28:U:273:LEU:HA	28:U:276:ILE:HD12	1.88	0.55
30:W:114:VAL:HB	30:W:143:ASN:HA	1.87	0.55
31:X:33:ILE:HG21	31:X:99:PHE:HB3	1.87	0.55
33:Z:328:ASP:CA	33:Z:332:ASN:H	2.20	0.55
33:Z:440:LEU:O	33:Z:448:LYS:HA	2.06	0.55
33:Z:814:ALA:HA	33:Z:817:LEU:HD12	1.89	0.55
10:c:139:GLY:O	10:c:147:GLN:N	2.35	0.55
12:e:123:PHE:HA	12:e:134:MET:HB3	1.89	0.55
4:i:202:VAL:HB	4:i:220:LEU:H	1.70	0.55
5:j:13:VAL:HG23	5:j:138:VAL:HG12	1.89	0.55
1:1:142:TYR:HE1	1:1:152:ARG:HB2	1.72	0.55
2:2:231:ALA:HA	2:2:241:PHE:HA	1.89	0.55
3:3:78:VAL:HG22	3:3:100:VAL:HG12	1.88	0.55
4:4:235:PRO:O	4:4:238:THR:OG1	2.16	0.55
5:5:10:GLY:HA3	5:5:42:LYS:HE2	1.89	0.55
5:5:205:ASP:HB3	7:1:268:VAL:HG11	1.88	0.55
6:6:46:PHE:HB3	6:6:102:VAL:HG12	1.89	0.55
2:9:45:ILE:HA	2:9:176:ALA:HA	1.89	0.55
2:9:48:LYS:NZ	2:9:158:GLN:O	2.40	0.55
8:A:91:ARG:NH2	14:G:157:TYR:O	2.36	0.55
8:A:219:SER:H	8:A:222:ASP:CG	2.14	0.55
9:B:94:HIS:HA	9:B:98:LYS:HB3	1.89	0.55
13:F:154:THR:HA	14:G:64:ASN:OD1	2.07	0.55
15:H:178:ARG:NH1	15:H:191:ILE:HB	2.22	0.55
15:H:340:LEU:HB3	15:H:370:ARG:CZ	2.35	0.55
16:I:272:LEU:O	16:I:307:PHE:N	2.31	0.55
17:J:230:VAL:HG13	17:J:275:LEU:HD11	1.89	0.55
20:M:306:LEU:HD23	20:M:309:LEU:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:375:HIS:CD2	21:N:385:VAL:HG11	2.41	0.55
21:N:504:TYR:HA	21:N:507:GLU:HB3	1.89	0.55
21:N:763:GLY:H	21:N:907:ASP:N	2.04	0.55
22:O:306:ARG:NH1	22:O:351:SER:C	2.65	0.55
22:O:356:ARG:HA	22:O:356:ARG:NE	2.21	0.55
22:O:357:ILE:O	22:O:358:ILE:CB	2.54	0.55
23:P:67:ALA:HA	23:P:75:LEU:HD22	1.89	0.55
23:P:287:ASP:C	23:P:289:ASN:N	2.63	0.55
23:P:396:PRO:CG	24:Q:356:CYS:HB3	2.36	0.55
24:Q:402:THR:CB	24:Q:403:PRO:CD	2.78	0.55
25:R:190:LYS:O	25:R:194:VAL:HG12	2.07	0.55
25:R:417:TYR:O	25:R:420:ALA:N	2.38	0.55
26:S:433:GLU:HG2	26:S:446:THR:HG21	1.89	0.55
27:T:139:ASP:HB3	27:T:142:LEU:HB2	1.87	0.55
29:V:31:SER:HA	29:V:34:LEU:HB3	1.89	0.55
30:W:100:HIS:O	30:W:102:GLN:NE2	2.40	0.55
31:X:72:GLU:HB2	31:X:91:PHE:CE1	2.41	0.55
33:Z:128:GLU:HB3	33:Z:132:HIS:CD2	2.41	0.55
33:Z:927:VAL:O	33:Z:956:LEU:HG	2.07	0.55
33:Z:958:ASN:HB2	33:Z:961:GLU:CD	2.32	0.55
10:c:14:SER:N	10:c:18:ARG:O	2.36	0.55
12:e:16:SER:HA	12:e:22:PHE:CZ	2.42	0.55
2:2:37:PRO:HB2	2:2:40:THR:HG22	1.87	0.55
4:4:153:TYR:HD2	4:4:167:LEU:HD13	1.71	0.55
5:5:98:ARG:HG3	5:5:103:TYR:CE2	2.42	0.55
1:8:83:LEU:HD13	1:8:124:TYR:CE2	2.42	0.55
1:8:119:LYS:HD3	1:8:124:TYR:CD2	2.42	0.55
2:9:48:LYS:HB3	2:9:53:VAL:HG12	1.88	0.55
8:A:92:ASN:HB2	14:G:121:GLN:OE1	2.07	0.55
10:C:14:SER:N	10:C:18:ARG:O	2.36	0.55
12:E:35:SER:HA	12:E:53:ARG:CZ	2.37	0.55
13:F:186:PRO:HA	13:F:189:LEU:HD12	1.89	0.55
14:G:138:PHE:N	14:G:149:TYR:O	2.29	0.55
16:I:221:ILE:HG13	16:I:263:VAL:HG21	1.87	0.55
17:J:111:GLN:CD	17:J:128:ASN:HB2	2.32	0.55
17:J:324:ARG:HD3	17:J:353:CYS:HB2	1.88	0.55
18:K:206:PRO:HA	18:K:335:ASP:OD2	2.07	0.55
19:L:375:ASP:HB3	19:L:415:LEU:HD23	1.89	0.55
20:M:13:PRO:O	20:M:17:GLU:HG3	2.07	0.55
20:M:289:LYS:HD2	20:M:295:LYS:NZ	2.22	0.55
21:N:189:LEU:O	21:N:193:ALA:N	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:625:LEU:HD11	21:N:637:ALA:HB1	1.89	0.55
23:P:105:LYS:C	23:P:107:SER:O	2.50	0.55
23:P:422:LEU:O	23:P:426:ILE:HG13	2.07	0.55
28:U:120:LEU:HD21	28:U:122:ILE:HG13	1.89	0.55
30:W:29:GLN:O	30:W:33:VAL:HG23	2.07	0.55
30:W:39:ALA:O	30:W:43:SER:N	2.39	0.55
30:W:132:LEU:HD11	30:W:157:PHE:HZ	1.72	0.55
33:Z:123:ALA:HA	33:Z:126:TYR:HB3	1.88	0.55
33:Z:602:LEU:CD1	33:Z:882:LEU:HD23	2.37	0.55
8:a:71:TYR:H	8:a:224:GLU:CD	2.14	0.55
8:a:129:THR:HG22	9:b:128:ARG:HH21	1.72	0.55
9:b:188:ALA:HA	9:b:191:ILE:HD12	1.88	0.55
10:c:38:ILE:HA	10:c:162:ALA:HA	1.87	0.55
12:e:81:LEU:N	12:e:139:GLY:O	2.24	0.55
4:i:112:LEU:O	4:i:116:LEU:N	2.24	0.55
5:j:98:ARG:HG3	5:j:103:TYR:CE2	2.42	0.55
2:2:48:LYS:NZ	2:2:158:GLN:O	2.40	0.54
2:2:176:ALA:HB3	2:2:181:ALA:HA	1.89	0.54
5:5:177:ARG:HD3	7:l:101:VAL:HB	1.88	0.54
1:8:36:GLY:H	1:8:40:ALA:HA	1.71	0.54
1:8:46:THR:HG21	1:8:58:TYR:CD1	2.42	0.54
2:9:63:TYR:O	2:9:66:LEU:HB3	2.07	0.54
8:A:21:PRO:HA	9:B:23:TYR:CE1	2.42	0.54
15:H:405:GLU:O	15:H:409:ARG:HG3	2.07	0.54
16:I:239:GLY:CA	16:I:242:PRO:HD3	2.35	0.54
16:I:426:ALA:HB1	16:I:443:PHE:CD1	2.41	0.54
19:L:193:LEU:HD11	19:L:347:VAL:HG11	1.89	0.54
21:N:258:ALA:HA	21:N:261:LEU:HB3	1.88	0.54
23:P:168:TYR:CD1	23:P:171:MET:HB3	2.42	0.54
24:Q:135:HIS:HD2	24:Q:161:LEU:HD23	1.71	0.54
24:Q:363:SER:O	24:Q:368:LEU:N	2.33	0.54
24:Q:426:LEU:HD11	29:V:268:THR:HG21	1.88	0.54
25:R:29:LYS:HA	25:R:32:LEU:HD12	1.88	0.54
26:S:371:LEU:O	26:S:375:ASP:N	2.39	0.54
26:S:436:ILE:HB	27:T:197:TYR:CE1	2.42	0.54
27:T:146:ILE:O	27:T:150:ARG:N	2.28	0.54
27:T:221:ALA:HB1	27:T:228:ILE:HD11	1.88	0.54
28:U:126:LYS:C	29:V:208:LYS:HZ1	2.15	0.54
29:V:287:THR:O	29:V:291:ASN:HB2	2.06	0.54
31:X:48:PHE:CD2	31:X:66:LEU:HB3	2.42	0.54
33:Z:209:PRO:O	33:Z:213:LYS:N	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:241:THR:C	33:Z:242:PHE:CD1	2.86	0.54
33:Z:328:ASP:HA	33:Z:332:ASN:H	1.72	0.54
33:Z:416:THR:HA	33:Z:450:GLY:HA2	1.89	0.54
33:Z:430:LEU:HG	33:Z:468:GLU:H	1.71	0.54
33:Z:759:ARG:HH11	33:Z:759:ARG:HG3	1.70	0.54
8:a:77:ARG:NH2	8:a:232:LYS:HD2	2.23	0.54
8:a:125:SER:O	8:a:129:THR:N	2.25	0.54
11:d:187:THR:N	11:d:190:GLU:OE2	2.33	0.54
12:e:78:MET:HA	12:e:142:LEU:HD23	1.88	0.54
14:g:194:LYS:HB3	14:g:242:PHE:CD2	2.42	0.54
6:k:46:PHE:HB3	6:k:102:VAL:HG12	1.89	0.54
6:k:101:ASN:HB3	6:k:133:HIS:ND1	2.22	0.54
7:l:82:ARG:HG2	7:l:221:TRP:HZ3	1.72	0.54
1:1:119:LYS:HD3	1:1:124:TYR:CD2	2.42	0.54
2:9:220:ARG:NH2	4:i:168:GLU:OE2	2.39	0.54
8:A:115:ASP:HB3	8:A:155:TYR:CE2	2.42	0.54
9:B:200:VAL:HG21	9:B:204:PHE:CD1	2.43	0.54
11:D:31:THR:HB	11:D:47:GLU:HG3	1.88	0.54
12:E:52:LYS:HG3	12:E:215:ASN:O	2.07	0.54
13:F:2:PHE:N	13:F:5:ASN:OD1	2.41	0.54
13:F:121:GLN:HA	14:G:130:ARG:HE	1.73	0.54
14:G:54:ILE:H	14:G:212:PHE:HA	1.70	0.54
15:H:156:VAL:HG12	15:H:158:GLY:H	1.72	0.54
15:H:180:LYS:O	20:M:168:LYS:HG3	2.06	0.54
16:I:307:PHE:HA	16:I:352:ILE:HB	1.87	0.54
17:J:273:LEU:HD23	17:J:276:LEU:HD12	1.90	0.54
18:K:78:GLU:HB3	21:N:613:HIS:CE1	2.42	0.54
18:K:122:ILE:HA	18:K:146:LEU:HB3	1.89	0.54
18:K:298:GLU:O	18:K:302:GLN:N	2.37	0.54
21:N:714:THR:N	21:N:754:THR:O	2.30	0.54
22:O:12:SER:CB	22:O:15:ARG:CB	2.86	0.54
22:O:99:LEU:HD11	22:O:132:GLU:O	2.07	0.54
23:P:66:LEU:HB3	23:P:70:ASN:ND2	2.22	0.54
23:P:168:TYR:HB3	23:P:170:SER:N	2.22	0.54
23:P:282:HIS:O	23:P:286:ASN:HB3	2.07	0.54
24:Q:352:GLU:HB2	24:Q:353:PRO:HD2	1.88	0.54
24:Q:395:GLY:C	24:Q:396:TRP:CD1	2.86	0.54
25:R:184:GLN:CB	25:R:185:LEU:HG	2.37	0.54
26:S:247:VAL:HB	26:S:250:ALA:HB2	1.88	0.54
26:S:455:GLU:CG	26:S:459:GLN:HE21	2.19	0.54
27:T:187:ASP:HA	27:T:224:ARG:HH21	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:257:THR:HA	27:T:260:ILE:HD12	1.89	0.54
28:U:227:GLY:O	28:U:230:GLN:HB3	2.07	0.54
33:Z:233:LEU:HD13	33:Z:261:ASP:OD2	2.07	0.54
33:Z:387:ASN:O	33:Z:391:ASN:HB2	2.07	0.54
12:e:166:ARG:O	13:f:57:SER:HA	2.07	0.54
13:f:11:VAL:HG23	14:g:130:ARG:N	2.23	0.54
13:f:46:LEU:HB2	13:f:214:ALA:HB3	1.88	0.54
13:f:117:GLN:OE1	14:g:83:PRO:HB2	2.07	0.54
3:h:176:HIS:O	3:h:179:SER:OG	2.23	0.54
4:i:141:SER:OG	4:i:149:ASP:HB2	2.07	0.54
7:l:115:PHE:HA	7:l:259:GLY:HA3	1.88	0.54
2:2:186:PRO:O	2:2:190:LYS:N	2.29	0.54
3:3:185:ASP:OD1	3:3:187:SER:N	2.39	0.54
4:4:141:SER:OG	4:4:149:ASP:HB2	2.07	0.54
6:6:101:ASN:HB3	6:6:133:HIS:ND1	2.22	0.54
9:B:34:SER:O	9:B:164:ILE:N	2.35	0.54
9:B:111:VAL:HG21	9:B:148:TYR:HD2	1.72	0.54
11:D:103:PRO:HG2	11:D:140:PRO:HG3	1.90	0.54
15:H:143:ALA:N	20:M:75:LEU:H	2.05	0.54
15:H:309:ASP:OD1	15:H:310:GLU:N	2.40	0.54
16:I:133:ILE:CD1	17:J:93:LYS:HB3	2.38	0.54
18:K:177:LEU:HD13	18:K:222:LEU:HD21	1.89	0.54
18:K:347:ARG:O	18:K:351:LEU:HG	2.08	0.54
18:K:351:LEU:O	18:K:355:THR:N	2.40	0.54
19:L:254:LYS:CA	19:L:255:TYR:C	2.79	0.54
20:M:81:ASN:O	20:M:119:VAL:HA	2.06	0.54
20:M:256:ILE:HG23	20:M:299:ARG:HD2	1.90	0.54
21:N:464:GLU:O	21:N:467:LYS:N	2.41	0.54
21:N:890:PHE:HA	21:N:908:ARG:H	1.72	0.54
22:O:227:ILE:HD11	22:O:336:LEU:HD12	1.88	0.54
22:O:273:GLN:O	22:O:276:LYS:HB3	2.07	0.54
22:O:310:PHE:CE1	22:O:341:ILE:HG12	2.42	0.54
23:P:360:ILE:HD11	23:P:364:ARG:HG3	1.89	0.54
23:P:410:GLN:HB3	23:P:414:GLU:OE1	2.08	0.54
24:Q:66:VAL:O	24:Q:69:GLY:N	2.41	0.54
24:Q:134:LYS:O	24:Q:138:SER:N	2.34	0.54
24:Q:157:LEU:O	24:Q:161:LEU:HG	2.08	0.54
26:S:135:ASN:O	26:S:138:MET:HB2	2.06	0.54
26:S:349:THR:HA	26:S:352:VAL:HB	1.88	0.54
26:S:471:LEU:HD23	26:S:474:GLU:HB2	1.88	0.54
27:T:9:LYS:O	27:T:13:ILE:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:95:GLN:HE21	30:W:132:LEU:HG	1.72	0.54
30:W:129:ALA:HA	30:W:161:VAL:HG22	1.89	0.54
30:W:149:GLN:O	30:W:154:LEU:HD12	2.07	0.54
33:Z:269:TYR:CD1	33:Z:272:TYR:CE2	2.96	0.54
8:a:115:ASP:HB3	8:a:155:TYR:CE2	2.42	0.54
5:j:103:TYR:HA	6:k:93:ARG:NH2	2.13	0.54
6:k:60:ILE:HG23	6:k:83:PHE:HE2	1.72	0.54
7:l:188:TYR:CE1	7:l:198:LYS:HB2	2.42	0.54
2:2:63:TYR:O	2:2:66:LEU:HB3	2.07	0.54
4:4:164:MET:HA	4:4:167:LEU:HD12	1.90	0.54
2:9:164:ASN:ND2	2:9:168:VAL:HB	2.15	0.54
21:N:169:ALA:O	21:N:173:LYS:CD	2.54	0.54
21:N:253:LEU:HB2	21:N:906:ARG:HH22	1.73	0.54
21:N:762:ARG:HD3	21:N:766:GLN:HA	1.89	0.54
21:N:762:ARG:HD3	21:N:767:ALA:H	1.71	0.54
22:O:82:LEU:O	22:O:87:LYS:N	2.35	0.54
22:O:238:ILE:O	22:O:241:THR:HB	2.07	0.54
23:P:182:GLU:HA	23:P:185:GLU:HB3	1.90	0.54
24:Q:135:HIS:CD2	24:Q:164:GLU:HG2	2.42	0.54
24:Q:314:PHE:CE2	24:Q:339:TYR:CD2	2.94	0.54
24:Q:404:ASN:HD21	25:R:393:PRO:HG2	1.71	0.54
26:S:396:SER:HA	26:S:398:THR:OG1	2.07	0.54
26:S:461:PHE:HE2	28:U:274:MET:HA	1.71	0.54
27:T:97:SER:O	27:T:98:GLU:HG3	2.05	0.54
27:T:99:SER:HB2	27:T:102:LYS:HD3	1.90	0.54
28:U:70:HIS:O	28:U:73:ILE:N	2.40	0.54
28:U:104:LEU:HA	28:U:107:ASN:ND2	2.22	0.54
28:U:276:ILE:HG23	29:V:291:ASN:CG	2.32	0.54
29:V:240:ALA:H	29:V:242:LYS:NZ	2.04	0.54
31:X:28:PRO:O	31:X:29:VAL:HG22	2.07	0.54
33:Z:357:ILE:O	33:Z:360:SER:N	2.34	0.54
33:Z:475:GLN:HE22	33:Z:502:ASN:ND2	2.05	0.54
33:Z:827:LEU:HD11	33:Z:830:LEU:HD22	1.90	0.54
8:a:89:ASP:CG	8:a:137:LEU:HD22	2.32	0.54
13:f:2:PHE:N	13:f:5:ASN:OD1	2.41	0.54
13:f:71:GLY:HA3	13:f:222:PHE:CE2	2.43	0.54
14:g:100:LYS:O	14:g:104:LYS:N	2.36	0.54
3:h:22:ILE:HD11	3:h:146:ALA:HB3	1.90	0.54
4:i:133:ASP:OD1	4:i:136:GLY:N	2.36	0.54
6:k:100:VAL:H	6:k:121:TYR:HB3	1.73	0.54
7:l:127:CYS:SG	7:l:172:MET:HE3	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:264:GLN:NE2	3:3:55:ARG:H	2.05	0.54
3:3:171:VAL:O	3:3:175:LYS:N	2.35	0.54
1:8:142:TYR:HE1	1:8:152:ARG:HB2	1.72	0.54
8:A:200:GLU:HG3	8:A:244:ARG:NH2	2.23	0.54
12:E:123:PHE:HA	12:E:134:MET:HB3	1.89	0.54
14:G:158:TRP:HB2	14:G:160:TYR:CE1	2.42	0.54
15:H:102:CYS:HB2	15:H:146:VAL:HB	1.89	0.54
15:H:191:ILE:HG13	15:H:192:ASP:N	2.23	0.54
15:H:368:PRO:HG3	20:M:390:GLN:HG3	1.90	0.54
15:H:380:PRO:O	15:H:413:ASN:CG	2.48	0.54
17:J:71:TYR:CD2	17:J:117:SER:HA	2.43	0.54
17:J:76:ILE:HD11	17:J:87:LYS:HB3	1.88	0.54
17:J:321:VAL:O	17:J:325:ALA:N	2.22	0.54
18:K:136:SER:O	18:K:150:LEU:N	2.35	0.54
19:L:145:ARG:HB2	19:L:161:ARG:HD2	1.89	0.54
19:L:404:ARG:NH2	20:M:191:GLU:OE2	2.41	0.54
20:M:280:ILE:N	20:M:324:LEU:O	2.38	0.54
21:N:67:LYS:HA	21:N:97:PHE:CE1	2.42	0.54
21:N:302:PHE:HE1	21:N:872:THR:N	2.06	0.54
22:O:44:SER:H	22:O:47:LYS:HE3	1.73	0.54
24:Q:380:MET:SD	24:Q:382:LEU:HD23	2.47	0.54
24:Q:418:GLN:HA	24:Q:421:LYS:NZ	2.22	0.54
25:R:40:ILE:HA	25:R:43:ARG:HH11	1.72	0.54
25:R:170:VAL:O	25:R:174:ILE:HG12	2.07	0.54
25:R:350:LEU:HB3	25:R:386:GLY:O	2.08	0.54
25:R:410:LEU:O	25:R:413:LYS:N	2.41	0.54
26:S:134:ILE:O	26:S:138:MET:N	2.32	0.54
28:U:73:ILE:HA	28:U:76:MET:HB3	1.90	0.54
33:Z:201:LEU:HD22	33:Z:232:LYS:HZ1	1.73	0.54
33:Z:398:LYS:HG3	33:Z:402:ASP:OD2	2.08	0.54
33:Z:790:MET:HG2	33:Z:826:ARG:O	2.08	0.54
8:a:27:GLN:OE1	14:g:15:PHE:N	2.29	0.54
8:a:186:PHE:HD1	8:a:191:ILE:O	1.91	0.54
8:a:200:GLU:HG3	8:a:244:ARG:NH2	2.23	0.54
8:a:219:SER:H	8:a:222:ASP:CG	2.14	0.54
11:d:15:GLY:HA3	12:e:29:GLU:HB2	1.88	0.54
13:f:110:HIS:HB3	14:g:86:ARG:NH2	2.22	0.54
13:f:137:TYR:CE2	13:f:218:LYS:HA	2.43	0.54
7:l:119:THR:HG21	7:l:175:MET:HB2	1.89	0.54
7:l:282:PHE:O	7:l:285:VAL:N	2.39	0.54
1:1:95:HIS:O	1:1:100:ASP:N	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:22:ILE:HD11	3:3:146:ALA:HB3	1.90	0.54
4:4:175:LEU:HA	4:4:179:GLU:OE1	2.06	0.54
7:7:103:SER:HB2	1:8:156:ARG:HH22	1.72	0.54
8:A:186:PHE:HD1	8:A:191:ILE:O	1.91	0.54
10:C:198:SER:HA	10:C:206:LEU:HB2	1.90	0.54
14:G:194:LYS:HB3	14:G:242:PHE:CD2	2.42	0.54
16:I:274:ILE:HG12	16:I:307:PHE:O	2.08	0.54
16:I:403:ASN:HB2	16:I:406:THR:OG1	2.08	0.54
17:J:81:ASP:CG	17:J:83:LYS:H	2.15	0.54
17:J:159:GLU:HB3	17:J:314:ILE:HG21	1.89	0.54
17:J:283:GLU:H	17:J:283:GLU:CD	2.15	0.54
18:K:158:ILE:O	18:K:159:SER:OG	2.22	0.54
18:K:161:MET:HE2	18:K:257:VAL:HG22	1.89	0.54
18:K:343:LEU:O	18:K:345:ASP:N	2.41	0.54
21:N:15:GLU:CD	27:T:84:GLN:HE22	2.16	0.54
22:O:200:GLU:HB3	22:O:201:PRO:HD3	1.90	0.54
24:Q:129:LYS:NZ	9:b:184:GLU:HB3	2.21	0.54
28:U:110:PHE:O	28:U:113:TYR:N	2.38	0.54
29:V:155:ALA:O	29:V:199:LEU:N	2.36	0.54
30:W:6:THR:HG23	30:W:109:ARG:HG2	1.90	0.54
30:W:20:ASP:OD2	30:W:25:ARG:NH1	2.41	0.54
31:X:85:ARG:H	31:X:116:ALA:HB3	1.73	0.54
33:Z:241:THR:C	33:Z:242:PHE:CG	2.85	0.54
33:Z:483:THR:OG1	33:Z:519:PRO:O	2.24	0.54
33:Z:544:THR:O	33:Z:548:ASP:N	2.41	0.54
33:Z:914:LEU:HB3	33:Z:980:VAL:HG13	1.88	0.54
9:b:200:VAL:HG21	9:b:204:PHE:CD1	2.43	0.54
10:c:96:GLN:NE2	5:j:72:ASN:HB2	2.23	0.54
11:d:33:ALA:O	11:d:164:ILE:N	2.26	0.54
11:d:79:ASN:O	11:d:82:SER:OG	2.26	0.54
11:d:103:PRO:HG2	11:d:140:PRO:HG3	1.90	0.54
11:d:160:SER:HB3	11:d:179:TYR:CE2	2.43	0.54
14:g:158:TRP:HB2	14:g:160:TYR:CZ	2.43	0.54
4:i:70:ILE:HD12	4:i:103:PRO:HB2	1.90	0.54
4:i:80:ASP:O	4:i:84:VAL:HG12	2.08	0.54
4:i:175:LEU:HA	4:i:179:GLU:OE1	2.06	0.54
1:1:46:THR:HG21	1:1:58:TYR:CD1	2.42	0.54
2:2:51:ASN:O	2:2:235:LYS:HG2	2.06	0.54
2:2:185:ASN:HB3	2:2:189:ARG:NE	2.23	0.54
4:4:189:GLN:HA	4:4:192:ILE:HB	1.89	0.54
6:6:81:SER:HB2	6:6:125:LYS:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:265:ASN:OD1	7:7:266:HIS:N	2.40	0.54
8:A:77:ARG:NH2	8:A:232:LYS:HD2	2.23	0.54
8:A:199:TRP:HA	8:A:202:VAL:HB	1.88	0.54
9:B:150:VAL:HG22	9:B:156:TYR:HB3	1.90	0.54
13:F:71:GLY:HA3	13:F:222:PHE:CE2	2.43	0.54
15:H:148:ASN:O	15:H:154:LYS:HG3	2.08	0.54
16:I:396:MET:HG3	16:I:423:CYS:HB3	1.90	0.54
17:J:135:SER:OG	17:J:137:MET:HG2	2.07	0.54
19:L:285:ALA:HB2	20:M:303:ARG:HB2	1.90	0.54
19:L:370:LYS:HE2	19:L:410:ILE:HG13	1.89	0.54
21:N:76:GLU:HG2	21:N:108:MET:HE3	1.90	0.54
21:N:124:TYR:HB2	21:N:162:ARG:NH1	2.22	0.54
21:N:391:PRO:HG3	21:N:405:LEU:HD21	1.90	0.54
21:N:650:ASP:HA	21:N:653:ARG:HG2	1.90	0.54
23:P:245:TYR:CE1	23:P:261:LEU:HB2	2.43	0.54
23:P:323:ASN:OD1	23:P:334:ASN:HB3	2.06	0.54
25:R:75:GLY:HA3	25:R:92:ILE:HD13	1.89	0.54
25:R:346:LYS:O	25:R:389:GLU:HA	2.08	0.54
26:S:6:VAL:HG12	26:S:10:VAL:HG23	1.90	0.54
26:S:160:ARG:HH22	26:S:206:GLN:HB3	1.72	0.54
27:T:262:LYS:O	27:T:266:TYR:N	2.38	0.54
28:U:37:ILE:HG12	28:U:92:TRP:N	2.23	0.54
28:U:102:SER:HA	28:U:105:LYS:NZ	2.23	0.54
29:V:95:LEU:HB3	29:V:100:ARG:HB3	1.90	0.54
30:W:18:ASN:HD22	30:W:19:GLY:N	2.06	0.54
30:W:52:ILE:HD12	30:W:90:ALA:HB1	1.89	0.54
33:Z:236:PHE:CD2	33:Z:237:VAL:HG23	2.43	0.54
33:Z:346:LEU:C	33:Z:352:LYS:HZ3	2.16	0.54
33:Z:358:TYR:C	33:Z:360:SER:N	2.64	0.54
33:Z:536:GLY:N	33:Z:573:LEU:O	2.40	0.54
33:Z:593:HIS:H	33:Z:596:THR:HG21	1.71	0.54
33:Z:853:GLY:O	33:Z:857:LEU:N	2.40	0.54
9:b:94:HIS:HA	9:b:98:LYS:HB3	1.89	0.54
9:b:111:VAL:HG21	9:b:148:TYR:HD2	1.72	0.54
13:f:228:GLU:OE1	13:f:228:GLU:N	2.29	0.54
6:k:9:VAL:HB	6:k:152:MET:O	2.08	0.54
2:2:117:GLU:HB3	13:f:139:LYS:HB3	1.88	0.54
6:6:29:LYS:HE2	6:6:32:ASP:HA	1.90	0.54
6:6:60:ILE:HG23	6:6:83:PHE:HE2	1.73	0.54
6:6:137:GLY:HA2	6:6:140:THR:OG1	2.07	0.54
1:8:213:ARG:CZ	4:i:58:LYS:HG3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:89:ASP:HB3	2:9:92:ASP:HB2	1.90	0.54
9:B:77:GLY:HA3	9:B:132:VAL:HG12	1.89	0.54
11:D:48:ARG:N	11:D:209:ASN:O	2.32	0.54
14:G:158:TRP:HB2	14:G:160:TYR:CZ	2.43	0.54
15:H:101:ARG:NH2	16:I:151:THR:O	2.40	0.54
15:H:144:LYS:NZ	15:H:155:PHE:HE2	2.05	0.54
15:H:145:TYR:N	20:M:75:LEU:O	2.41	0.54
15:H:238:LEU:HD11	20:M:403:LEU:HB2	1.89	0.54
17:J:32:LEU:HD21	26:S:173:LEU:HD22	1.89	0.54
17:J:129:LYS:CE	17:J:129:LYS:CA	2.86	0.54
17:J:275:LEU:O	17:J:279:LEU:N	2.33	0.54
18:K:67:TYR:HE2	21:N:608:LEU:HD12	1.73	0.54
19:L:245:PHE:CZ	19:L:281:ASP:HB2	2.43	0.54
19:L:263:ILE:HA	19:L:266:MET:HE3	1.89	0.54
20:M:72:ASN:HB3	20:M:73:ARG:HG3	1.88	0.54
21:N:6:ALA:N	21:N:38:GLU:OE1	2.35	0.54
21:N:7:ALA:HA	21:N:10:LEU:HD12	1.90	0.54
21:N:583:VAL:O	21:N:587:ALA:N	2.22	0.54
22:O:185:PHE:O	22:O:189:TYR:HB3	2.08	0.54
22:O:185:PHE:O	22:O:189:TYR:N	2.40	0.54
22:O:244:ASN:HB3	22:O:245:ASP:OD1	2.07	0.54
23:P:107:SER:O	23:P:108:LYS:CG	2.55	0.54
23:P:141:LYS:HD3	23:P:179:PHE:CE1	2.42	0.54
23:P:432:LEU:O	23:P:435:LYS:HB3	2.07	0.54
25:R:25:GLU:HB3	25:R:29:LYS:HE3	1.90	0.54
25:R:62:TYR:HE1	25:R:65:TYR:HD2	1.53	0.54
25:R:97:GLU:HA	25:R:100:ASN:HD22	1.73	0.54
25:R:141:TYR:CE2	25:R:149:ASN:HB2	2.43	0.54
25:R:335:ARG:O	25:R:338:TYR:N	2.35	0.54
26:S:199:GLU:CA	26:S:200:GLU:CB	2.86	0.54
26:S:405:ARG:O	26:S:409:LEU:N	2.41	0.54
26:S:458:GLN:HE22	28:U:270:ASN:CA	2.21	0.54
28:U:195:LYS:HE3	29:V:230:TYR:N	2.23	0.54
29:V:244:MET:HA	29:V:247:ILE:HG23	1.90	0.54
31:X:15:CYS:SG	31:X:16:GLU:N	2.80	0.54
31:X:103:GLU:HB3	31:X:105:ASN:ND2	2.23	0.54
33:Z:165:TYR:HD1	33:Z:200:THR:HB	1.72	0.54
33:Z:287:ARG:C	33:Z:289:GLY:N	2.63	0.54
33:Z:358:TYR:O	33:Z:362:LEU:N	2.29	0.54
10:c:79:GLY:HA3	10:c:133:VAL:HA	1.88	0.54
11:d:37:LYS:HA	11:d:42:VAL:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:35:SER:HA	12:e:53:ARG:CZ	2.37	0.54
12:e:52:LYS:HG3	12:e:215:ASN:O	2.08	0.54
13:f:186:PRO:HA	13:f:189:LEU:HD12	1.88	0.54
5:j:50:PHE:CZ	5:j:195:VAL:HG21	2.43	0.54
5:j:135:ASP:CG	5:j:136:PHE:H	2.16	0.54
7:l:265:ASN:OD1	7:l:266:HIS:N	2.40	0.54
1:1:205:ASP:O	1:1:208:THR:OG1	2.26	0.54
2:2:89:ASP:HB3	2:2:92:ASP:HB2	1.90	0.54
6:6:158:LEU:HD13	6:6:198:GLN:HE22	1.72	0.54
7:7:82:ARG:HG2	7:7:221:TRP:HZ3	1.72	0.54
7:7:127:CYS:SG	7:7:172:MET:HE3	2.48	0.54
7:7:188:TYR:CE1	7:7:198:LYS:HB2	2.42	0.54
7:7:210:PHE:CE1	7:7:242:ARG:HG2	2.42	0.54
10:C:197:LEU:O	10:C:201:THR:OG1	2.23	0.54
15:H:261:ARG:CZ	15:H:273:ARG:HH11	2.20	0.54
15:H:367:ARG:NH2	15:H:370:ARG:HD2	2.22	0.54
15:H:397:SER:O	15:H:437:VAL:HA	2.08	0.54
15:H:419:LEU:O	15:H:422:VAL:HB	2.07	0.54
21:N:69:TYR:HE2	21:N:81:TYR:CD2	2.25	0.54
21:N:587:ALA:O	21:N:591:LEU:HG	2.08	0.54
22:O:256:ASN:O	22:O:260:VAL:N	2.33	0.54
22:O:358:ILE:HG12	22:O:359:SER:H	1.73	0.54
23:P:184:MET:HE1	23:P:220:TYR:CE1	2.42	0.54
23:P:207:THR:HG21	23:P:217:LYS:N	2.23	0.54
23:P:292:LYS:HD2	23:P:295:SER:OG	2.08	0.54
23:P:300:VAL:HA	23:P:303:PHE:CD2	2.42	0.54
25:R:200:LYS:O	25:R:203:ASP:CA	2.56	0.54
25:R:353:MET:HA	25:R:357:PHE:CE2	2.43	0.54
26:S:181:ALA:O	26:S:184:TRP:HB2	2.07	0.54
26:S:269:GLU:O	26:S:272:TYR:HB3	2.08	0.54
27:T:148:LEU:O	27:T:152:LEU:N	2.28	0.54
27:T:221:ALA:O	27:T:226:TRP:N	2.41	0.54
28:U:141:GLU:HA	28:U:152:LYS:C	2.32	0.54
33:Z:250:VAL:O	33:Z:253:VAL:N	2.38	0.54
33:Z:490:ILE:HG23	33:Z:526:ALA:HA	1.89	0.54
33:Z:510:LEU:HD12	33:Z:549:ASN:HD21	1.72	0.54
10:c:38:ILE:HG23	10:c:162:ALA:HB2	1.90	0.54
10:c:85:GLU:HA	10:c:88:ILE:HD12	1.90	0.54
12:e:72:ARG:HG2	12:e:227:GLY:HA3	1.89	0.54
3:h:23:MET:HE2	3:h:174:ILE:HG12	1.90	0.54
7:l:256:THR:OG1	7:l:258:ASP:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:109:LEU:O	9:B:113:GLU:N	2.28	0.54
11:D:7:ALA:N	12:E:125:GLU:OE2	2.28	0.54
14:G:120:VAL:HA	14:G:132:PHE:CE2	2.43	0.54
16:I:153:PRO:HB2	16:I:155:TYR:CE1	2.43	0.54
16:I:188:GLN:HA	16:I:189:ASP:CG	2.31	0.54
16:I:252:PRO:HA	16:I:256:LYS:HB2	1.90	0.54
16:I:381:ASP:N	16:I:384:THR:OG1	2.40	0.54
17:J:241:ALA:HA	17:J:242:PRO:C	2.32	0.54
19:L:370:LYS:HG2	19:L:410:ILE:HB	1.90	0.54
19:L:416:MET:HA	19:L:419:VAL:HG23	1.90	0.54
22:O:57:LEU:C	22:O:59:LEU:N	2.65	0.54
22:O:228:TYR:CD2	22:O:287:LEU:HD23	2.42	0.54
22:O:242:ILE:HG13	22:O:243:VAL:N	2.23	0.54
23:P:125:VAL:O	23:P:139:VAL:HB	2.08	0.54
23:P:221:TYR:CE1	23:P:244:ILE:HB	2.43	0.54
23:P:258:LYS:NZ	23:P:290:LEU:HD11	2.22	0.54
24:Q:74:LEU:HD12	24:Q:77:PHE:HB3	1.90	0.54
24:Q:416:VAL:HA	24:Q:419:LEU:HD12	1.90	0.54
25:R:200:LYS:HE2	25:R:202:GLY:H	1.72	0.54
25:R:352:SER:O	25:R:356:ALA:HB3	2.08	0.54
26:S:458:GLN:HA	26:S:461:PHE:HD2	1.73	0.54
27:T:261:GLU:CD	29:V:292:ILE:HG23	2.32	0.54
28:U:84:ASN:HB3	28:U:87:GLU:OE2	2.08	0.54
33:Z:487:SER:CA	33:Z:522:THR:HG21	2.37	0.54
33:Z:537:THR:N	33:Z:573:LEU:O	2.36	0.54
33:Z:605:SER:HA	33:Z:878:LEU:HD11	0.63	0.54
6:k:137:GLY:HA2	6:k:140:THR:OG1	2.08	0.54
1:1:175:PHE:CD2	1:1:191:LEU:HD23	2.43	0.53
4:4:70:ILE:HD12	4:4:103:PRO:HB2	1.90	0.53
4:4:247:VAL:N	5:5:195:VAL:O	2.37	0.53
5:5:74:TYR:CD2	5:5:78:GLU:HG3	2.43	0.53
2:9:186:PRO:O	2:9:190:LYS:N	2.29	0.53
9:B:187:ASP:O	9:B:191:ILE:N	2.27	0.53
11:D:26:ALA:HA	11:D:29:ARG:HB3	1.89	0.53
11:D:240:LYS:O	11:D:243:GLN:HG2	2.08	0.53
13:F:36:VAL:N	13:F:47:VAL:O	2.27	0.53
13:F:171:TYR:O	13:F:175:THR:N	2.41	0.53
17:J:130:ALA:CA	17:J:131:ASP:CB	2.86	0.53
17:J:368:TYR:CE2	17:J:384:LEU:HB2	2.43	0.53
18:K:91:SER:HB2	29:V:148:LYS:HZ2	1.73	0.53
18:K:126:LEU:HD22	18:K:130:LEU:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:158:ILE:N	18:K:244:HIS:CE1	2.76	0.53
18:K:217:THR:HA	18:K:381:ALA:HB2	1.90	0.53
18:K:238:ASN:ND2	18:K:241:GLU:OE2	2.41	0.53
20:M:24:ASN:O	20:M:28:GLN:HG3	2.07	0.53
20:M:402:ALA:O	20:M:407:GLN:N	2.41	0.53
21:N:414:GLY:H	21:N:453:ALA:HA	1.73	0.53
21:N:515:ARG:HD3	21:N:738:GLN:NE2	2.23	0.53
21:N:768:ILE:O	21:N:917:ILE:HB	2.08	0.53
22:O:137:TYR:HH	22:O:149:LEU:HB2	1.72	0.53
22:O:137:TYR:OH	22:O:149:LEU:HB2	2.08	0.53
22:O:140:LYS:HG2	22:O:181:PHE:CD2	2.43	0.53
22:O:175:ASN:O	22:O:178:TYR:HB3	2.08	0.53
23:P:221:TYR:O	23:P:225:VAL:HG23	2.07	0.53
23:P:260:VAL:O	23:P:264:ILE:HG13	2.08	0.53
23:P:298:SER:O	23:P:302:LEU:HG	2.08	0.53
25:R:134:TRP:O	25:R:138:GLY:N	2.36	0.53
25:R:371:PHE:O	25:R:377:LEU:CB	2.56	0.53
26:S:156:VAL:HA	26:S:159:ASN:ND2	2.23	0.53
27:T:110:LEU:HD23	27:T:113:LEU:HD12	1.89	0.53
28:U:64:ASP:HA	28:U:105:LYS:HE3	1.90	0.53
31:X:29:VAL:O	31:X:29:VAL:HG23	2.08	0.53
33:Z:527:SER:O	33:Z:531:ALA:N	2.38	0.53
33:Z:585:LEU:HG	33:Z:603:VAL:HG21	1.85	0.53
9:b:26:THR:O	9:b:30:GLN:HG2	2.08	0.53
10:c:177:GLN:HE21	11:d:53:LYS:HE3	1.73	0.53
11:d:26:ALA:HA	11:d:29:ARG:HB3	1.89	0.53
11:d:240:LYS:O	11:d:243:GLN:HG2	2.08	0.53
6:k:20:ALA:O	6:k:34:LYS:NZ	2.41	0.53
3:3:23:MET:HE2	3:3:174:ILE:HG12	1.90	0.53
3:3:89:TYR:HH	14:G:115:ARG:HE	1.48	0.53
4:4:121:GLY:HA3	4:4:145:HIS:CE1	2.44	0.53
8:A:44:ALA:N	8:A:169:THR:O	2.33	0.53
8:A:70:SER:OG	8:A:224:GLU:OE2	2.17	0.53
9:B:67:LEU:H	9:B:72:GLY:HA2	1.71	0.53
13:F:80:ASP:O	13:F:84:LEU:HG	2.08	0.53
13:F:157:TYR:OH	14:G:61:PRO:HD2	2.09	0.53
15:H:368:PRO:C	15:H:370:ARG:H	2.16	0.53
16:I:208:TYR:HB2	16:I:218:ILE:HD13	1.90	0.53
16:I:281:GLN:OE1	16:I:290:LEU:HD11	2.08	0.53
17:J:139:VAL:HG13	17:J:211:ILE:HG12	1.90	0.53
17:J:316:PHE:CD2	17:J:317:PRO:N	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:102:GLY:O	19:L:103:GLN:NE2	2.41	0.53
19:L:268:ALA:HA	19:L:271:LYS:HB3	1.90	0.53
19:L:371:THR:O	19:L:374:PHE:HB3	2.09	0.53
20:M:26:SER:OG	20:M:27:THR:N	2.40	0.53
22:O:133:ILE:HG21	22:O:153:LEU:HB2	1.90	0.53
22:O:242:ILE:HB	22:O:248:TYR:CD1	2.44	0.53
23:P:418:ASN:O	23:P:421:GLU:HB2	2.08	0.53
24:Q:390:LEU:CD2	24:Q:397:LEU:HD11	2.24	0.53
28:U:18:ALA:O	28:U:21:HIS:HB2	2.08	0.53
28:U:270:ASN:HA	28:U:273:LEU:HB2	1.90	0.53
29:V:122:ASP:O	29:V:125:THR:HB	2.08	0.53
30:W:2:VAL:C	30:W:44:ASN:HD22	2.16	0.53
33:Z:170:GLU:HA	33:Z:226:GLU:HB3	1.90	0.53
33:Z:216:GLY:CA	33:Z:217:GLU:CB	2.86	0.53
33:Z:353:VAL:HG12	33:Z:357:ILE:HG13	1.88	0.53
33:Z:854:LEU:HA	33:Z:857:LEU:HB2	1.90	0.53
33:Z:895:LEU:HD12	33:Z:896:LYS:N	2.23	0.53
8:a:178:ILE:HD11	8:a:214:LEU:HD21	1.90	0.53
10:c:124:GLN:HG3	11:d:127:ARG:HG3	1.89	0.53
10:c:157:TYR:HE1	11:d:83:ARG:HD3	1.72	0.53
14:g:21:ASN:O	14:g:25:GLU:HG3	2.09	0.53
14:g:120:VAL:HA	14:g:132:PHE:CE2	2.43	0.53
4:i:38:ASN:ND2	4:i:176:THR:HA	2.24	0.53
6:k:163:LEU:HA	6:k:166:GLN:OE1	2.09	0.53
7:l:250:VAL:O	7:l:265:ASN:HA	2.09	0.53
1:1:213:ARG:HA	4:4:55:VAL:HB	1.90	0.53
5:5:49:VAL:C	5:5:50:PHE:HD1	2.16	0.53
6:6:79:ALA:HB2	10:C:104:GLU:CD	2.32	0.53
7:7:97:ALA:HB3	7:7:100:TRP:HD1	1.74	0.53
1:8:197:GLU:H	1:8:197:GLU:CD	2.16	0.53
8:A:20:SER:HB3	8:A:26:TYR:CE2	2.44	0.53
13:F:137:TYR:CE2	13:F:218:LYS:HA	2.43	0.53
15:H:150:LYS:NZ	15:H:152:ILE:HB	2.24	0.53
15:H:169:GLU:C	15:H:174:VAL:HG22	2.32	0.53
15:H:321:ASP:OD2	15:H:330:GLN:HG2	2.09	0.53
17:J:138:MET:SD	18:K:330:ARG:NH2	2.81	0.53
17:J:145:SER:O	17:J:201:ALA:HA	2.07	0.53
17:J:225:GLU:HG2	18:K:282:PHE:O	2.08	0.53
18:K:157:SER:HA	18:K:158:ILE:HB	1.91	0.53
19:L:132:ARG:NH1	19:L:156:MET:HA	2.23	0.53
19:L:133:ASN:ND2	29:V:43:ALA:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:147:THR:O	19:L:156:MET:N	2.38	0.53
19:L:220:LEU:HD22	19:L:349:ILE:HD11	1.89	0.53
19:L:259:SER:OG	19:L:303:ARG:CZ	2.49	0.53
19:L:278:ILE:HB	19:L:323:ILE:HA	1.91	0.53
20:M:36:LEU:HD23	20:M:70:LYS:HD2	1.90	0.53
20:M:77:TYR:CG	20:M:147:GLY:HA2	2.43	0.53
20:M:373:ASP:HB2	20:M:411:LYS:HB2	1.91	0.53
20:M:375:ASN:OD1	20:M:377:GLN:HG2	2.09	0.53
20:M:417:GLU:HG2	13:f:202:ARG:HH22	1.72	0.53
21:N:299:TYR:CE2	21:N:303:LEU:HD11	2.43	0.53
22:O:99:LEU:HD12	22:O:132:GLU:HA	1.89	0.53
22:O:225:ASP:CA	22:O:226:LYS:HB2	2.37	0.53
23:P:146:ILE:HG22	23:P:150:GLU:HG3	1.90	0.53
23:P:207:THR:HG23	23:P:216:LEU:HB2	1.90	0.53
23:P:259:PRO:HA	23:P:262:SER:HB2	1.90	0.53
25:R:359:VAL:HA	32:Y:82:ASP:HB3	1.90	0.53
26:S:200:GLU:CB	26:S:201:ILE:CB	2.85	0.53
26:S:258:GLU:OE1	26:S:258:GLU:N	2.39	0.53
26:S:306:SER:HA	26:S:310:LEU:CB	2.39	0.53
26:S:360:PHE:CE2	26:S:384:ARG:HG2	2.43	0.53
26:S:376:THR:HA	26:S:378:GLN:HE22	1.72	0.53
26:S:457:PRO:HG2	26:S:458:GLN:HG3	1.91	0.53
27:T:32:ILE:HA	27:T:35:ILE:HD12	1.91	0.53
28:U:33:CYS:O	28:U:95:SER:N	2.42	0.53
31:X:47:ASP:HA	31:X:66:LEU:O	2.08	0.53
33:Z:568:LEU:CD2	33:Z:602:LEU:CD1	2.70	0.53
33:Z:881:ILE:O	33:Z:884:THR:OG1	2.17	0.53
33:Z:914:LEU:HA	33:Z:960:GLY:HA2	1.88	0.53
33:Z:986:ASN:O	33:Z:989:TYR:N	2.41	0.53
10:c:15:PRO:HA	11:d:22:TYR:CZ	2.42	0.53
11:d:121:THR:OG1	11:d:122:GLN:N	2.39	0.53
13:f:121:GLN:NE2	14:g:130:ARG:O	2.39	0.53
14:g:52:LYS:N	14:g:213:GLU:O	2.29	0.53
3:h:36:ASP:OD2	3:h:188:SER:HA	2.08	0.53
5:j:74:TYR:CD2	5:j:78:GLU:HG3	2.43	0.53
1:1:71:MET:HE2	1:1:84:VAL:HG22	1.91	0.53
2:2:127:GLU:HG2	13:f:100:ASN:N	2.23	0.53
4:4:32:ILE:HG13	4:4:128:ILE:HD12	1.90	0.53
4:4:80:ASP:O	4:4:84:VAL:HG12	2.08	0.53
4:4:178:GLU:OE1	4:4:178:GLU:N	2.25	0.53
5:5:13:VAL:HG23	5:5:138:VAL:HG12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:15:MET:HA	5:5:136:PHE:HA	1.91	0.53
7:7:250:VAL:O	7:7:265:ASN:HA	2.09	0.53
8:A:45:VAL:HG12	8:A:168:ALA:HB1	1.91	0.53
10:C:85:GLU:HA	10:C:88:ILE:HD12	1.90	0.53
16:I:281:GLN:CG	17:J:223:ILE:C	2.80	0.53
16:I:286:ASP:O	16:I:290:LEU:HG	2.09	0.53
17:J:129:LYS:HE2	17:J:129:LYS:N	2.20	0.53
18:K:66:ASP:HA	18:K:69:LYS:NZ	2.24	0.53
19:L:371:THR:HG23	19:L:409:HIS:CD2	2.43	0.53
20:M:27:THR:HA	20:M:30:LEU:HB2	1.88	0.53
20:M:115:LYS:O	20:M:131:MET:HG3	2.08	0.53
22:O:284:GLU:HA	22:O:287:LEU:HB2	1.90	0.53
23:P:249:ALA:HB2	23:P:257:TRP:CE2	2.43	0.53
24:Q:409:TYR:CD2	25:R:399:GLN:O	2.61	0.53
25:R:98:LEU:O	25:R:102:LEU:N	2.22	0.53
26:S:164:ILE:HB	26:S:165:PRO:HD3	1.90	0.53
26:S:199:GLU:O	26:S:203:SER:HA	2.08	0.53
26:S:230:LYS:O	26:S:233:LEU:HB2	2.08	0.53
26:S:288:THR:HA	26:S:291:GLU:HB2	1.90	0.53
27:T:30:ILE:HG21	27:T:61:ILE:HD13	1.89	0.53
29:V:50:MET:HG3	29:V:109:HIS:HE1	1.74	0.53
31:X:9:LYS:HA	31:X:34:GLU:HB3	1.90	0.53
33:Z:253:VAL:O	33:Z:261:ASP:HB2	2.08	0.53
9:b:32:VAL:HA	9:b:166:LYS:HZ1	1.74	0.53
10:c:103:ASN:HD22	6:k:82:SER:HB3	1.72	0.53
11:d:31:THR:HB	11:d:47:GLU:HG3	1.88	0.53
3:h:27:PHE:CE1	3:h:32:ILE:HG13	2.44	0.53
3:h:51:ASP:OD1	3:h:53:LEU:N	2.38	0.53
3:h:194:MET:N	3:h:205:LEU:O	2.27	0.53
4:i:32:ILE:HG13	4:i:128:ILE:HD12	1.91	0.53
4:i:219:TYR:CD2	4:i:220:LEU:HG	2.43	0.53
5:j:112:ILE:HG12	5:j:119:PRO:HA	1.89	0.53
5:j:161:GLU:O	5:j:165:GLU:N	2.27	0.53
1:1:21:PHE:CD1	2:2:142:PRO:HG3	2.44	0.53
1:1:110:ARG:O	1:1:114:HIS:ND1	2.42	0.53
2:2:77:PRO:HB3	2:2:239:LEU:HD11	1.91	0.53
3:3:214:GLN:N	3:3:214:GLN:OE1	2.42	0.53
5:5:29:LEU:N	5:5:37:SER:O	2.42	0.53
5:5:135:ASP:CG	5:5:136:PHE:H	2.16	0.53
5:5:204:GLN:O	7:l:241:HIS:ND1	2.40	0.53
6:6:9:VAL:HB	6:6:152:MET:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:142:TYR:HB3	1:8:144:PHE:CE1	2.44	0.53
2:9:231:ALA:HA	2:9:241:PHE:HA	1.89	0.53
10:C:124:GLN:HG3	11:D:127:ARG:CG	2.38	0.53
11:D:160:SER:HB3	11:D:179:TYR:CE2	2.43	0.53
14:G:21:ASN:O	14:G:25:GLU:HG3	2.09	0.53
15:H:278:GLU:HA	16:I:292:ARG:HH12	1.73	0.53
15:H:333:MET:O	15:H:337:ILE:N	2.23	0.53
15:H:376:GLU:HG2	15:H:377:PHE:N	2.22	0.53
15:H:402:ILE:HB	15:H:440:GLU:OE1	2.09	0.53
16:I:211:ILE:HD12	16:I:214:LEU:HD12	1.91	0.53
17:J:268:VAL:O	17:J:272:MET:HG2	2.07	0.53
18:K:178:ASP:HA	18:K:181:LYS:HE3	1.91	0.53
19:L:147:THR:HB	19:L:157:ARG:N	2.24	0.53
20:M:413:GLU:O	20:M:417:GLU:HG3	2.08	0.53
21:N:718:GLU:OE1	21:N:725:LEU:N	2.42	0.53
21:N:769:PRO:HG3	21:N:890:PHE:CD2	2.43	0.53
22:O:267:ASP:HA	22:O:270:ILE:HG23	1.90	0.53
22:O:342:ASP:HB3	22:O:347:LEU:HB2	1.91	0.53
23:P:419:VAL:CG1	29:V:238:LEU:HA	2.39	0.53
23:P:432:LEU:C	23:P:436:GLU:HG3	2.34	0.53
25:R:222:ARG:HA	25:R:224:PHE:CZ	2.44	0.53
25:R:247:GLU:HA	25:R:279:LEU:HD21	1.91	0.53
26:S:144:LEU:HB3	26:S:152:LEU:HD22	1.91	0.53
26:S:199:GLU:HA	26:S:200:GLU:CB	2.38	0.53
26:S:343:LEU:HA	26:S:346:TYR:HB3	1.89	0.53
26:S:455:GLU:HG2	26:S:459:GLN:HE21	1.73	0.53
27:T:126:LEU:O	27:T:129:LEU:HB3	2.09	0.53
27:T:202:LEU:N	27:T:231:SER:O	2.29	0.53
28:U:7:LYS:O	28:U:45:THR:HA	2.08	0.53
31:X:85:ARG:HD3	31:X:117:LYS:O	2.09	0.53
33:Z:275:GLN:CB	33:Z:278:LEU:HB2	2.36	0.53
33:Z:288:LEU:C	33:Z:290:GLU:N	2.65	0.53
33:Z:345:GLU:O	33:Z:349:THR:N	2.39	0.53
8:a:74:CYS:HA	8:a:80:GLY:HA2	1.90	0.53
8:a:219:SER:N	8:a:222:ASP:OD2	2.28	0.53
10:c:96:GLN:NE2	5:j:69:TYR:O	2.38	0.53
13:f:6:TYR:CD1	13:f:15:PRO:HD3	2.44	0.53
14:g:85:GLY:O	14:g:89:VAL:N	2.29	0.53
14:g:200:ILE:O	14:g:204:HIS:N	2.37	0.53
2:2:68:ARG:NH1	3:h:133:PRO:HB3	2.23	0.53
3:3:172:ASP:O	3:3:176:HIS:ND1	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:53:ILE:HB	5:5:60:VAL:HG13	1.91	0.53
7:7:256:THR:OG1	7:7:258:ASP:HB2	2.08	0.53
1:8:175:PHE:CD2	1:8:191:LEU:HD23	2.43	0.53
8:A:130:GLN:HG3	9:B:128:ARG:CG	2.39	0.53
9:B:23:TYR:O	9:B:26:THR:HB	2.08	0.53
9:B:26:THR:O	9:B:30:GLN:HG2	2.08	0.53
9:B:173:THR:HG22	9:B:177:LYS:NZ	2.24	0.53
15:H:292:ARG:CZ	20:M:250:GLN:HG2	2.38	0.53
16:I:244:LYS:HE2	16:I:370:ARG:CB	2.39	0.53
16:I:274:ILE:HD11	16:I:308:ILE:HG12	1.91	0.53
17:J:202:VAL:O	17:J:206:THR:HG23	2.08	0.53
17:J:373:ARG:O	17:J:374:ARG:NH1	2.33	0.53
17:J:384:LEU:HD21	24:Q:199:THR:HG22	1.91	0.53
19:L:105:ILE:HB	20:M:126:THR:HG1	1.72	0.53
19:L:224:PRO:HG2	20:M:342:ARG:HH12	1.73	0.53
19:L:274:GLU:HB2	19:L:320:GLN:HB2	1.90	0.53
21:N:352:ASN:CB	21:N:355:TRP:HB2	2.38	0.53
22:O:130:ASP:CB	22:O:153:LEU:HD11	2.38	0.53
22:O:306:ARG:HD2	22:O:350:ILE:C	2.34	0.53
23:P:130:ILE:HG12	23:P:132:VAL:HG23	1.91	0.53
23:P:170:SER:HB3	23:P:173:MET:HG2	1.89	0.53
23:P:207:THR:O	23:P:210:ASN:HB2	2.07	0.53
24:Q:126:LYS:HE2	24:Q:134:LYS:HZ2	1.74	0.53
24:Q:382:LEU:HD13	24:Q:402:THR:HG21	1.90	0.53
24:Q:387:TYR:CZ	24:Q:399:VAL:HA	2.44	0.53
25:R:200:LYS:HD2	25:R:200:LYS:O	2.09	0.53
25:R:372:ILE:CA	25:R:377:LEU:CD1	2.55	0.53
26:S:232:MET:N	26:S:259:TYR:OH	2.41	0.53
26:S:338:MET:HG3	26:S:343:LEU:H	1.72	0.53
28:U:292:ILE:HG12	28:U:295:LYS:HE2	1.90	0.53
30:W:162:ASN:ND2	30:W:169:SER:O	2.42	0.53
33:Z:244:ARG:HE	33:Z:248:TYR:HE2	1.57	0.53
11:d:227:GLU:H	11:d:227:GLU:CD	2.15	0.53
13:f:80:ASP:O	13:f:84:LEU:HG	2.08	0.53
4:i:121:GLY:HA3	4:i:145:HIS:CE1	2.44	0.53
5:j:142:ALA:HB2	5:j:178:ASP:HB2	1.91	0.53
6:k:67:TYR:CE2	6:k:75:LEU:HD21	2.44	0.53
4:4:126:TYR:HD1	4:4:143:HIS:HA	1.73	0.53
4:4:204:VAL:O	4:4:216:LEU:N	2.22	0.53
5:5:111:GLY:O	5:5:120:PHE:N	2.42	0.53
1:8:110:ARG:O	1:8:114:HIS:ND1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:176:ALA:HB3	2:9:181:ALA:HA	1.89	0.53
9:B:191:ILE:HA	9:B:194:LEU:HD12	1.90	0.53
11:D:226:SER:HA	11:D:229:ILE:HD12	1.91	0.53
14:G:168:GLY:HA2	14:G:206:ASP:OD2	2.08	0.53
15:H:175:GLY:HA3	15:H:189:PRO:HG3	1.91	0.53
16:I:212:GLY:HA2	16:I:391:ILE:HD12	1.90	0.53
17:J:191:PRO:CB	17:J:254:GLY:HA3	2.39	0.53
18:K:99:PHE:HB2	18:K:137:VAL:HG11	1.90	0.53
18:K:213:GLY:O	18:K:219:LYS:NZ	2.33	0.53
18:K:260:LEU:O	18:K:264:ASN:N	2.39	0.53
18:K:344:ARG:HG3	18:K:349:ARG:NH2	2.24	0.53
18:K:409:GLU:O	18:K:413:THR:N	2.25	0.53
19:L:151:THR:O	19:L:153:LEU:HG	2.08	0.53
19:L:225:GLY:O	19:L:227:GLY:N	2.40	0.53
19:L:225:GLY:N	19:L:228:LYS:HB3	2.24	0.53
19:L:254:LYS:CB	20:M:255:TYR:CD1	2.49	0.53
19:L:309:LEU:HB2	19:L:342:ARG:CZ	2.39	0.53
19:L:369:LYS:HE2	19:L:409:HIS:HB3	1.91	0.53
21:N:9:LEU:HD22	21:N:28:ILE:HG13	1.90	0.53
21:N:498:ILE:HG23	21:N:535:LEU:HD22	1.90	0.53
21:N:919:THR:HG23	21:N:921:ARG:HB3	1.90	0.53
22:O:385:GLU:HB3	28:U:190:LEU:HB3	1.90	0.53
23:P:213:TYR:HB2	23:P:216:LEU:HD12	1.91	0.53
23:P:396:PRO:CB	24:Q:356:CYS:CB	2.80	0.53
24:Q:58:ILE:HA	24:Q:61:LEU:HB3	1.89	0.53
24:Q:380:MET:O	24:Q:381:ILE:HG23	2.09	0.53
26:S:131:THR:HA	26:S:134:ILE:HD12	1.91	0.53
26:S:239:ARG:O	26:S:243:ASN:N	2.42	0.53
26:S:330:LEU:HD12	26:S:346:TYR:HD1	1.73	0.53
30:W:126:ILE:HG22	30:W:130:LYS:HE3	1.90	0.53
31:X:38:ASN:H	31:X:46:TRP:HA	1.74	0.53
33:Z:415:MET:O	33:Z:419:VAL:HG23	2.09	0.53
33:Z:433:LEU:HB3	33:Z:437:ASP:OD2	2.08	0.53
33:Z:560:THR:CG2	33:Z:594:PRO:CB	2.86	0.53
33:Z:564:ARG:O	33:Z:567:ALA:N	2.41	0.53
33:Z:622:HIS:O	33:Z:625:THR:N	2.36	0.53
33:Z:907:GLY:O	33:Z:909:ARG:HG3	2.09	0.53
8:a:55:SER:N	8:a:224:GLU:O	2.41	0.53
8:a:62:LYS:HZ1	14:g:177:GLU:HB3	1.74	0.53
9:b:150:VAL:HG22	9:b:156:TYR:HB3	1.90	0.53
9:b:173:THR:HG22	9:b:177:LYS:NZ	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:191:ILE:HA	9:b:194:LEU:HD12	1.90	0.53
10:c:180:TYR:OH	10:c:182:ASP:HA	2.08	0.53
13:f:18:ARG:NE	13:f:23:GLU:OE2	2.42	0.53
3:h:214:GLN:N	3:h:214:GLN:OE1	2.42	0.53
6:k:64:ILE:O	6:k:68:SER:N	2.28	0.53
6:k:111:LYS:O	6:k:113:LYS:HG3	2.09	0.53
1:l:177:ASN:C	5:5:169:GLN:HE22	2.17	0.53
4:4:158:SER:OG	4:4:195:ASP:OD2	2.27	0.53
5:5:190:ILE:HG23	5:5:195:VAL:HG22	1.91	0.53
8:A:200:GLU:H	8:A:200:GLU:CD	2.13	0.53
9:B:24:ALA:O	9:B:28:VAL:N	2.24	0.53
12:E:167:TYR:CE2	12:E:170:LYS:HD3	2.44	0.53
14:G:30:ALA:O	14:G:34:GLY:N	2.41	0.53
15:H:96:PRO:HD2	15:H:97:LEU:H	1.74	0.53
15:H:100:ALA:N	15:H:177:ASP:OD1	2.22	0.53
15:H:331:ARG:HH11	15:H:334:LEU:HB3	1.74	0.53
17:J:200:ARG:O	17:J:204:HIS:N	2.22	0.53
18:K:211:LEU:HD23	18:K:338:ILE:HB	1.91	0.53
20:M:118:VAL:HG22	20:M:128:PHE:HA	1.90	0.53
20:M:194:VAL:HG13	20:M:198:VAL:HB	1.90	0.53
20:M:292:ASP:O	20:M:295:LYS:HG3	2.09	0.53
21:N:325:PHE:CD2	29:V:184:ASN:HB2	2.43	0.53
21:N:378:ASN:HB3	21:N:381:GLU:OE1	2.08	0.53
21:N:489:MET:HE3	21:N:493:GLY:HA2	1.90	0.53
21:N:635:GLN:CD	21:N:635:GLN:H	2.15	0.53
21:N:762:ARG:CD	21:N:767:ALA:H	2.22	0.53
22:O:17:GLU:O	22:O:18:ALA:C	2.52	0.53
22:O:82:LEU:O	22:O:86:LEU:N	2.42	0.53
22:O:385:GLU:CB	28:U:190:LEU:H	2.20	0.53
23:P:72:TRP:HB3	23:P:104:LEU:HD23	1.90	0.53
23:P:435:LYS:HZ1	28:U:155:LEU:HA	1.74	0.53
23:P:440:HIS:HD2	28:U:213:LYS:HZ3	1.57	0.53
24:Q:342:LEU:CA	24:Q:345:SER:HB2	2.32	0.53
25:R:187:VAL:HA	25:R:190:LYS:HB2	1.91	0.53
26:S:338:MET:HA	26:S:341:SER:H	1.73	0.53
26:S:453:ASP:O	28:U:270:ASN:HB2	2.09	0.53
27:T:259:ILE:HA	27:T:262:LYS:HB3	1.90	0.53
28:U:283:ARG:NH1	29:V:288:LEU:HB2	2.24	0.53
29:V:259:LYS:HG2	29:V:263:GLU:OE2	2.09	0.53
30:W:12:ASN:HA	30:W:16:SER:HB2	1.90	0.53
30:W:16:SER:OG	30:W:29:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:145:GLY:HA3	30:W:149:GLN:HG2	1.90	0.53
33:Z:381:LEU:HD11	33:Z:414:GLY:HA3	1.90	0.53
10:c:12:ILE:HA	11:d:19:GLN:NE2	2.21	0.53
10:c:63:THR:HG21	10:c:66:LEU:O	2.09	0.53
10:c:94:HIS:CD2	10:c:114:ARG:HG2	2.44	0.53
3:h:15:GLU:HB3	4:i:145:HIS:CD2	2.44	0.53
4:i:189:GLN:HA	4:i:192:ILE:HB	1.90	0.53
6:k:120:ASP:OD1	6:k:123:GLY:N	2.42	0.53
5:5:50:PHE:CZ	5:5:195:VAL:HG21	2.43	0.53
5:5:112:ILE:HG12	5:5:119:PRO:HA	1.89	0.53
5:5:142:ALA:HB2	5:5:178:ASP:HB2	1.91	0.53
6:6:143:LEU:O	6:6:147:HIS:ND1	2.35	0.53
7:7:216:ASP:OD2	6:k:171:ARG:NE	2.30	0.53
7:7:279:GLU:OE2	6:k:146:HIS:ND1	2.42	0.53
9:B:82:TYR:O	9:B:86:VAL:HG23	2.09	0.53
11:D:187:THR:N	11:D:190:GLU:OE2	2.33	0.53
15:H:95:HIS:ND1	16:I:140:ILE:HG12	2.23	0.53
15:H:280:VAL:HB	16:I:331:ARG:HH21	1.74	0.53
16:I:142:ASP:HB2	16:I:144:HIS:O	2.09	0.53
18:K:255:ARG:HB2	18:K:298:GLU:OE2	2.08	0.53
21:N:539:MET:HA	21:N:547:LEU:HB3	1.89	0.53
22:O:44:SER:O	22:O:47:LYS:N	2.41	0.53
23:P:341:LEU:HA	23:P:344:ARG:CB	2.38	0.53
24:Q:262:LEU:CA	24:Q:265:MET:HB3	2.38	0.53
24:Q:359:ILE:HG21	24:Q:370:THR:CG2	2.13	0.53
25:R:258:LEU:HD21	25:R:293:THR:HG21	1.90	0.53
25:R:288:SER:O	25:R:292:LEU:N	2.42	0.53
25:R:312:TYR:O	25:R:316:LEU:N	2.39	0.53
26:S:277:SER:HA	26:S:292:TYR:HD2	1.73	0.53
26:S:368:LYS:HG3	26:S:377:TYR:CD1	2.43	0.53
28:U:24:ARG:HE	29:V:100:ARG:CZ	2.22	0.53
28:U:169:ILE:O	28:U:172:GLU:HB3	2.08	0.53
29:V:262:THR:O	29:V:266:LEU:N	2.37	0.53
30:W:69:PHE:O	30:W:72:ILE:N	2.42	0.53
31:X:10:PHE:CE1	31:X:124:LYS:HB3	2.43	0.53
33:Z:358:TYR:CG	33:Z:960:GLY:O	2.61	0.53
33:Z:368:VAL:H	33:Z:856:HIS:CE1	2.27	0.53
8:a:133:TYR:CD2	14:g:126:TYR:HE2	2.27	0.53
8:a:199:TRP:O	8:a:203:VAL:N	2.26	0.53
8:a:230:LYS:HE2	8:a:231:ASP:OD1	2.08	0.53
11:d:194:LEU:HA	11:d:197:ARG:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:226:SER:HA	11:d:229:ILE:HD12	1.91	0.53
13:f:7:ASP:HA	13:f:20:PHE:HB2	1.91	0.53
4:i:126:TYR:HD1	4:i:143:HIS:HA	1.73	0.53
5:j:29:LEU:N	5:j:37:SER:O	2.42	0.53
6:k:29:LYS:HE2	6:k:32:ASP:HA	1.90	0.53
7:l:97:ALA:HB3	7:l:100:TRP:HD1	1.74	0.53
1:1:40:ALA:N	1:1:226:VAL:O	2.38	0.53
1:1:79:ASP:HB3	1:1:124:TYR:HB3	1.91	0.53
4:4:38:ASN:ND2	4:4:176:THR:HA	2.24	0.53
6:6:100:VAL:H	6:6:121:TYR:HB3	1.73	0.53
6:6:120:ASP:OD1	6:6:123:GLY:N	2.42	0.53
2:9:42:THR:CG2	2:9:74:ARG:CZ	2.81	0.53
8:A:55:SER:N	8:A:224:GLU:O	2.41	0.53
8:A:178:ILE:HD11	8:A:214:LEU:HD21	1.90	0.53
8:A:179:THR:HG23	9:B:55:LEU:HD12	1.91	0.53
11:D:194:LEU:HA	11:D:197:ARG:HD3	1.90	0.53
14:G:141:VAL:HG21	14:G:221:LEU:N	2.24	0.53
15:H:421:SER:HB3	16:I:369:GLY:H	1.73	0.53
16:I:69:THR:O	16:I:73:LEU:N	2.39	0.53
17:J:76:ILE:HG12	17:J:87:LYS:N	2.24	0.53
17:J:82:LYS:HG2	17:J:104:VAL:HG11	1.91	0.53
17:J:115:LEU:HD21	17:J:120:TYR:HA	1.91	0.53
17:J:142:VAL:HG22	17:J:208:CYS:C	2.34	0.53
17:J:148:ASP:OD1	17:J:148:ASP:N	2.40	0.53
18:K:281:ARG:HB2	18:K:293:GLN:NE2	2.24	0.53
18:K:356:ILE:HD12	18:K:387:MET:HG3	1.89	0.53
19:L:165:PRO:HD2	19:L:169:ASN:HD22	1.73	0.53
20:M:167:VAL:O	20:M:170:MET:N	2.28	0.53
21:N:13:LEU:HD22	21:N:42:GLU:HB3	1.90	0.53
21:N:124:TYR:CG	21:N:162:ARG:HG2	2.44	0.53
21:N:381:GLU:CD	21:N:381:GLU:H	2.17	0.53
21:N:585:ARG:NH2	21:N:616:HIS:HA	2.24	0.53
21:N:635:GLN:NE2	21:N:672:ASN:OD1	2.34	0.53
22:O:99:LEU:HD11	22:O:132:GLU:C	2.33	0.53
22:O:151:ASP:HA	22:O:154:GLU:HB3	1.89	0.53
23:P:274:GLY:O	23:P:277:GLN:HB3	2.08	0.53
23:P:393:VAL:O	24:Q:353:PRO:CA	2.34	0.53
24:Q:162:LEU:C	24:Q:166:LYS:HG3	2.34	0.53
26:S:420:GLU:HG2	26:S:438:HIS:NE2	2.24	0.53
26:S:462:ASP:O	26:S:466:LYS:N	2.32	0.53
27:T:200:LEU:HD12	27:T:201:PRO:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:237:ASN:CB	29:V:238:LEU:HB3	2.35	0.53
31:X:18:ASN:HB2	31:X:98:PHE:CD2	2.44	0.53
31:X:22:ARG:NH2	31:X:78:ILE:HG23	2.24	0.53
31:X:38:ASN:HB2	31:X:45:PHE:HB2	1.91	0.53
33:Z:342:LEU:HB2	33:Z:344:LYS:H	1.74	0.53
33:Z:452:LEU:HD13	33:Z:489:ALA:HB2	1.90	0.53
33:Z:564:ARG:O	33:Z:565:PHE:C	2.52	0.53
33:Z:824:ASN:OD1	33:Z:825:ALA:N	2.42	0.53
8:a:20:SER:HB3	8:a:26:TYR:CE2	2.44	0.53
8:a:45:VAL:HG12	8:a:168:ALA:HB1	1.91	0.53
11:d:206:GLY:HA3	11:d:209:ASN:ND2	2.23	0.53
14:g:168:GLY:HA2	14:g:206:ASP:OD2	2.08	0.53
5:j:49:VAL:C	5:j:50:PHE:HD1	2.16	0.53
3:3:28:LYS:HA	3:3:164:ASN:ND2	2.16	0.52
6:6:117:TYR:CE1	6:6:127:GLU:HB2	2.44	0.52
2:9:92:ASP:OD2	2:9:144:TRP:N	2.36	0.52
2:9:185:ASN:HB3	2:9:189:ARG:NE	2.23	0.52
10:C:63:THR:HG21	10:C:66:LEU:O	2.09	0.52
10:C:168:ASN:ND2	10:C:202:ASP:OD1	2.24	0.52
14:G:123:HIS:HA	14:G:129:VAL:CB	2.38	0.52
15:H:340:LEU:HB3	15:H:370:ARG:HH22	1.73	0.52
16:I:146:ILE:CG1	16:I:147:VAL:H	2.21	0.52
16:I:270:THR:HG22	16:I:272:LEU:HD21	1.91	0.52
16:I:283:TYR:O	17:J:223:ILE:HD11	2.09	0.52
16:I:428:LEU:HB3	17:J:312:ARG:NH1	2.24	0.52
19:L:91:THR:HG21	20:M:33:ARG:HG2	1.90	0.52
19:L:106:GLY:O	19:L:146:VAL:N	2.28	0.52
20:M:370:THR:C	20:M:409:SER:HB2	2.33	0.52
21:N:9:LEU:HB3	21:N:28:ILE:HG12	1.90	0.52
21:N:297:ASP:O	21:N:301:THR:N	2.23	0.52
21:N:303:LEU:O	21:N:307:LYS:N	2.36	0.52
21:N:501:MET:O	21:N:505:SER:N	2.28	0.52
21:N:763:GLY:HA3	21:N:906:ARG:HG3	1.91	0.52
22:O:99:LEU:HA	22:O:135:ARG:NH2	2.22	0.52
23:P:215:SER:O	23:P:219:GLU:N	2.40	0.52
23:P:381:SER:CB	24:Q:350:ILE:CG2	2.87	0.52
23:P:395:ARG:NH1	24:Q:365:ILE:N	2.57	0.52
24:Q:174:LEU:HG	24:Q:178:HIS:HE1	1.74	0.52
24:Q:332:ARG:HD2	24:Q:336:ASN:HD21	1.74	0.52
25:R:40:ILE:O	25:R:43:ARG:HB3	2.09	0.52
27:T:91:SER:OG	27:T:92:ASN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:148:LYS:HB2	29:V:150:LYS:HG2	1.91	0.52
33:Z:336:SER:O	33:Z:340:LEU:HG	2.08	0.52
33:Z:380:ASN:HA	33:Z:383:SER:OG	2.09	0.52
33:Z:785:VAL:HB	33:Z:864:MET:H	1.74	0.52
8:a:12:TYR:CE1	10:c:5:ARG:HB3	2.44	0.52
10:c:4:ARG:HA	11:d:6:ARG:NH1	2.23	0.52
10:c:104:GLU:CD	6:k:79:ALA:HB2	2.35	0.52
10:c:169:THR:O	10:c:173:GLN:N	2.28	0.52
13:f:171:TYR:O	13:f:175:THR:N	2.41	0.52
14:g:52:LYS:HA	14:g:66:LYS:NZ	2.24	0.52
4:i:164:MET:HA	4:i:167:LEU:HD12	1.90	0.52
5:j:190:ILE:HG23	5:j:195:VAL:HG22	1.91	0.52
1:1:142:TYR:HB3	1:1:144:PHE:CE1	2.44	0.52
7:7:117:LEU:HD21	7:7:260:TRP:CG	2.45	0.52
1:8:207:PHE:O	1:8:211:THR:N	2.29	0.52
8:A:230:LYS:HE2	8:A:231:ASP:OD1	2.08	0.52
9:B:19:GLY:O	9:B:23:TYR:N	2.31	0.52
10:C:94:HIS:CD2	10:C:114:ARG:HG2	2.44	0.52
10:C:180:TYR:OH	10:C:182:ASP:HA	2.08	0.52
11:D:37:LYS:HA	11:D:42:VAL:HA	1.90	0.52
14:G:52:LYS:HA	14:G:66:LYS:NZ	2.24	0.52
17:J:169:LYS:NZ	17:J:205:HIS:O	2.24	0.52
18:K:393:ARG:O	18:K:397:LYS:N	2.40	0.52
19:L:225:GLY:C	20:M:339:ARG:HH12	2.17	0.52
19:L:296:SER:HG	20:M:299:ARG:HH22	1.57	0.52
19:L:387:ASN:OD1	19:L:389:ALA:N	2.42	0.52
21:N:585:ARG:NH2	21:N:616:HIS:CD2	2.77	0.52
21:N:629:CYS:C	21:N:663:ILE:HG12	2.35	0.52
21:N:920:VAL:O	21:N:924:LYS:HG2	2.09	0.52
22:O:297:ILE:O	22:O:305:ILE:HG21	2.08	0.52
23:P:221:TYR:CD1	23:P:244:ILE:HB	2.44	0.52
23:P:245:TYR:CE2	23:P:257:TRP:CZ2	2.97	0.52
24:Q:58:ILE:O	24:Q:62:GLY:N	2.41	0.52
25:R:198:ILE:CG2	25:R:200:LYS:HG3	2.38	0.52
26:S:302:HIS:HB3	26:S:305:LYS:HB2	1.90	0.52
26:S:338:MET:HE2	26:S:344:PRO:HD3	1.91	0.52
28:U:19:LEU:HD21	28:U:123:VAL:HG11	1.91	0.52
28:U:173:HIS:CE1	29:V:151:VAL:HG23	2.44	0.52
30:W:37:PHE:HA	30:W:40:LYS:HB2	1.91	0.52
31:X:10:PHE:HB2	31:X:33:ILE:O	2.08	0.52
33:Z:804:ASP:OD1	33:Z:805:LEU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:34:SER:O	9:b:164:ILE:N	2.35	0.52
9:b:217:GLU:OE1	9:b:231:LYS:HB2	2.09	0.52
10:c:20:TYR:O	10:c:24:TYR:N	2.34	0.52
6:k:117:TYR:CE1	6:k:127:GLU:HB2	2.44	0.52
7:l:93:SER:OG	7:l:104:GLN:O	2.20	0.52
1:1:207:PHE:O	1:1:211:THR:N	2.29	0.52
2:2:45:ILE:HA	2:2:176:ALA:HA	1.89	0.52
3:3:27:PHE:CE1	3:3:32:ILE:HG13	2.44	0.52
4:4:46:ASP:HB2	4:4:199:GLY:O	2.10	0.52
4:4:233:LYS:HB2	5:5:155:GLU:OE2	2.09	0.52
6:6:19:LYS:HG2	6:6:180:ILE:HG13	1.92	0.52
6:6:73:TYR:HB2	10:C:143:ARG:NH1	2.24	0.52
6:6:163:LEU:HA	6:6:166:GLN:OE1	2.09	0.52
7:7:204:VAL:HA	7:7:208:GLN:OE1	2.09	0.52
7:7:239:ALA:O	7:7:243:ASP:N	2.36	0.52
1:8:71:MET:HE2	1:8:84:VAL:HG22	1.90	0.52
2:9:77:PRO:HB3	2:9:239:LEU:HD11	1.91	0.52
8:A:130:GLN:HG3	9:B:128:ARG:HG2	1.91	0.52
11:D:7:ALA:HB1	12:E:135:SER:HB2	1.91	0.52
13:F:6:TYR:CD1	13:F:15:PRO:HD3	2.44	0.52
16:I:244:LYS:HZ2	16:I:340:LEU:HG	1.75	0.52
16:I:273:ARG:HG2	17:J:274:GLU:OE2	2.09	0.52
18:K:255:ARG:HA	18:K:302:GLN:OE1	2.09	0.52
18:K:400:TYR:OH	23:P:131:PHE:HB2	2.10	0.52
19:L:300:GLU:HA	19:L:303:ARG:HH12	1.71	0.52
19:L:374:PHE:CE1	19:L:415:LEU:HD13	2.45	0.52
21:N:302:PHE:CE2	21:N:712:ASN:HB3	2.45	0.52
21:N:419:THR:O	21:N:423:LEU:N	2.21	0.52
23:P:71:LYS:HB2	23:P:74:ASP:H	1.75	0.52
23:P:392:LYS:CE	24:Q:354:PHE:CD2	2.91	0.52
23:P:425:HIS:CD2	23:P:429:ILE:HG13	2.44	0.52
25:R:41:GLU:HB3	25:R:45:GLU:CD	2.33	0.52
26:S:393:ARG:HA	26:S:397:LEU:HG	1.89	0.52
27:T:245:TYR:CG	27:T:246:GLU:N	2.74	0.52
28:U:119:LEU:HG	28:U:120:LEU:O	2.08	0.52
29:V:49:VAL:O	29:V:109:HIS:HA	2.10	0.52
29:V:119:SER:N	29:V:122:ASP:HB2	2.24	0.52
29:V:247:ILE:O	29:V:251:TYR:N	2.29	0.52
33:Z:243:GLN:C	33:Z:245:VAL:H	2.16	0.52
33:Z:312:TYR:O	33:Z:316:ALA:N	2.33	0.52
33:Z:344:LYS:HE3	33:Z:921:GLU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:346:LEU:HG	33:Z:352:LYS:HZ1	1.73	0.52
33:Z:913:ILE:HG12	33:Z:963:ALA:C	2.33	0.52
9:b:176:GLU:HG2	10:c:56:LEU:HD13	1.90	0.52
11:d:33:ALA:N	11:d:164:ILE:O	2.30	0.52
13:f:14:SER:OG	13:f:16:THR:OG1	2.25	0.52
4:i:51:GLN:N	4:i:54:ILE:O	2.39	0.52
1:1:40:ALA:HB3	1:1:226:VAL:HB	1.92	0.52
1:1:139:GLY:O	1:1:152:ARG:NH2	2.34	0.52
4:4:219:TYR:CD2	4:4:220:LEU:HG	2.44	0.52
5:5:70:LYS:HD3	5:5:90:LEU:HD11	1.92	0.52
1:8:139:GLY:O	1:8:152:ARG:NH2	2.34	0.52
9:B:217:GLU:OE1	9:B:231:LYS:HB2	2.09	0.52
10:C:169:THR:O	10:C:173:GLN:N	2.28	0.52
14:G:41:LYS:HA	14:G:46:VAL:HA	1.91	0.52
15:H:194:SER:OG	15:H:197:MET:HB3	2.09	0.52
15:H:207:THR:HG23	15:H:266:ARG:HA	1.91	0.52
15:H:426:ALA:HA	15:H:429:PHE:HB2	1.90	0.52
16:I:242:PRO:HD2	16:I:346:ARG:HD3	1.90	0.52
16:I:392:HIS:CD2	16:I:420:GLN:HG2	2.45	0.52
17:J:75:VAL:HB	17:J:111:GLN:H	1.74	0.52
18:K:182:GLN:OE1	18:K:185:ARG:HD3	2.10	0.52
18:K:283:ASP:OD1	18:K:284:ALA:N	2.41	0.52
19:L:66:GLU:O	19:L:70:TYR:N	2.37	0.52
19:L:149:ASP:OD2	19:L:151:THR:N	2.40	0.52
19:L:330:PRO:HB2	19:L:346:LYS:HE3	1.90	0.52
20:M:220:MET:HE3	20:M:324:LEU:HD11	1.91	0.52
21:N:497:ALA:O	21:N:501:MET:HG2	2.10	0.52
23:P:133:GLU:CG	23:P:167:THR:HB	2.38	0.52
23:P:308:LEU:HB3	23:P:349:ASN:ND2	2.25	0.52
24:Q:61:LEU:HG	24:Q:65:TYR:CE2	2.45	0.52
24:Q:95:LYS:HG2	9:b:248:GLU:HB3	1.91	0.52
24:Q:132:PHE:CZ	9:b:190:HIS:CD2	2.97	0.52
25:R:61:PRO:HD3	25:R:102:LEU:CD1	2.38	0.52
25:R:123:ASP:HB2	25:R:125:GLU:HB2	1.91	0.52
26:S:278:LYS:HA	26:S:281:ALA:HB2	1.92	0.52
26:S:323:LEU:HD11	26:S:379:LEU:HD11	1.90	0.52
27:T:148:LEU:HD11	27:T:164:LEU:HD21	1.91	0.52
28:U:270:ASN:O	28:U:274:MET:N	2.40	0.52
29:V:202:ASP:OD1	29:V:203:TYR:N	2.40	0.52
33:Z:225:LEU:HD22	33:Z:256:LEU:HB2	1.92	0.52
33:Z:368:VAL:HG22	33:Z:856:HIS:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:18:ILE:HB	9:b:20:GLN:CD	2.35	0.52
10:c:69:LEU:HB2	10:c:73:ILE:HG22	1.92	0.52
10:c:218:LYS:HB2	10:c:225:VAL:HG22	1.91	0.52
3:h:28:LYS:HA	3:h:164:ASN:ND2	2.16	0.52
5:j:189:ILE:N	5:j:196:VAL:O	2.38	0.52
6:k:111:LYS:HB3	6:k:113:LYS:HD2	1.92	0.52
1:l:51:ASP:O	4:l:196:LEU:HD12	2.09	0.52
4:l:49:SER:O	4:l:56:ALA:N	2.43	0.52
6:l:111:LYS:HB3	6:l:113:LYS:HD2	1.92	0.52
7:l:95:ALA:O	7:l:103:SER:N	2.38	0.52
7:l:276:LYS:HZ1	7:l:285:VAL:C	2.18	0.52
2:g:255:ALA:O	3:h:193:ARG:NH2	2.40	0.52
9:B:20:GLN:O	9:B:24:ALA:N	2.29	0.52
11:D:96:HIS:CD2	11:D:100:LEU:HD22	2.44	0.52
12:E:30:ALA:HA	12:E:33:LEU:HD12	1.91	0.52
12:E:168:ASN:HB3	12:E:187:TRP:CE2	2.44	0.52
13:F:18:ARG:NE	13:F:23:GLU:OE2	2.42	0.52
14:G:135:SER:OG	14:G:153:PRO:HD3	2.10	0.52
14:G:243:ALA:O	14:G:247:ILE:N	2.33	0.52
15:H:206:VAL:HG13	15:H:209:SER:CB	2.33	0.52
15:H:375:VAL:HG12	15:H:376:GLU:O	2.09	0.52
15:H:396:MET:HG2	16:I:237:GLU:O	2.09	0.52
16:I:417:ALA:O	16:I:421:ALA:N	2.36	0.52
17:J:63:ARG:O	17:J:66:GLN:N	2.34	0.52
17:J:85:LEU:HA	17:J:95:ILE:HA	1.90	0.52
20:M:167:VAL:O	20:M:169:ALA:N	2.42	0.52
21:N:230:VAL:HG21	21:N:264:SER:HB3	1.91	0.52
21:N:434:SER:CB	21:N:439:VAL:HG11	2.34	0.52
21:N:444:HIS:CE1	21:N:480:ALA:HB2	2.43	0.52
21:N:490:LEU:HD21	21:N:727:THR:HG21	1.92	0.52
21:N:545:SER:OG	21:N:580:ASN:ND2	2.39	0.52
21:N:630:ALA:HA	21:N:663:ILE:HA	1.91	0.52
22:O:157:LEU:HD21	22:O:168:THR:HG22	1.91	0.52
24:Q:268:SER:HA	24:Q:271:MET:HE3	1.91	0.52
24:Q:311:LEU:H	24:Q:346:ASN:ND2	2.08	0.52
25:R:30:ALA:O	25:R:34:THR:HG23	2.10	0.52
25:R:350:LEU:CD2	25:R:365:ASP:OD2	2.58	0.52
25:R:382:ASP:N	26:S:399:TYR:HB2	2.24	0.52
25:R:383:ARG:HB3	26:S:406:ASP:OD2	2.08	0.52
26:S:387:VAL:HA	26:S:390:THR:HB	1.91	0.52
26:S:434:ALA:HA	26:S:446:THR:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:90:PHE:CE2	27:T:129:LEU:HD12	2.45	0.52
29:V:117:TRP:C	29:V:118:LEU:HD23	2.34	0.52
29:V:249:GLU:HA	29:V:252:SER:HB2	1.92	0.52
33:Z:113:SER:HB2	33:Z:143:VAL:HB	1.92	0.52
33:Z:130:GLY:HA2	33:Z:156:HIS:CD2	2.45	0.52
33:Z:146:PHE:CE1	33:Z:213:LYS:HB2	2.44	0.52
33:Z:249:MET:O	33:Z:253:VAL:HG23	2.10	0.52
33:Z:275:GLN:O	33:Z:278:LEU:N	2.38	0.52
33:Z:281:ALA:HA	33:Z:284:LEU:HD12	1.91	0.52
33:Z:391:ASN:CG	33:Z:396:ASN:HB2	2.35	0.52
10:c:46:LEU:O	10:c:214:ALA:N	2.31	0.52
11:d:214:VAL:N	11:d:222:VAL:O	2.29	0.52
14:g:41:LYS:HA	14:g:46:VAL:HA	1.91	0.52
4:i:236:ARG:NE	5:j:161:GLU:HB2	2.25	0.52
1:1:78:ALA:HB2	2:2:168:VAL:HA	1.92	0.52
5:5:161:GLU:O	5:5:165:GLU:N	2.27	0.52
6:6:20:ALA:O	6:6:34:LYS:NZ	2.41	0.52
6:6:70:ARG:HA	11:D:90:ARG:NH1	2.25	0.52
7:7:210:PHE:HB2	7:7:239:ALA:HB2	1.92	0.52
1:8:51:ASP:O	4:i:196:LEU:HD12	2.10	0.52
2:9:221:ASP:OD1	2:9:223:ARG:N	2.38	0.52
9:B:32:VAL:HA	9:B:166:LYS:HZ1	1.73	0.52
10:C:35:ALA:HB3	10:C:165:VAL:HG23	1.91	0.52
16:I:283:TYR:HA	17:J:221:LYS:HE2	1.90	0.52
17:J:327:ILE:HA	17:J:330:ILE:HD12	1.92	0.52
18:K:241:GLU:CD	19:L:264:ARG:NH2	2.51	0.52
18:K:318:THR:HG21	18:K:321:ALA:HB2	1.91	0.52
18:K:349:ARG:NH2	18:K:377:SER:N	2.57	0.52
19:L:164:ASP:OD1	19:L:169:ASN:HB2	2.09	0.52
21:N:207:LEU:HB3	21:N:228:VAL:HG13	1.91	0.52
21:N:774:ASN:O	21:N:865:PRO:HA	2.09	0.52
22:O:215:TYR:HE1	22:O:247:ASN:HB2	1.74	0.52
22:O:320:PRO:O	22:O:324:VAL:HG23	2.10	0.52
23:P:114:THR:O	23:P:118:VAL:HG23	2.09	0.52
23:P:132:VAL:HG12	23:P:132:VAL:O	2.10	0.52
24:Q:99:THR:O	24:Q:103:LYS:HG2	2.10	0.52
24:Q:158:ILE:HA	24:Q:161:LEU:HD12	1.91	0.52
24:Q:171:LYS:HA	24:Q:174:LEU:HB3	1.91	0.52
24:Q:346:ASN:O	24:Q:349:LYS:CB	2.57	0.52
25:R:35:GLN:O	25:R:42:GLN:NE2	2.42	0.52
26:S:472:HIS:HB2	28:U:288:PHE:HE1	1.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:39:LEU:O	27:T:88:TYR:OH	2.21	0.52
27:T:49:ASP:C	27:T:53:ASN:HB2	2.35	0.52
27:T:79:GLU:HA	27:T:82:PHE:HB3	1.91	0.52
27:T:251:HIS:CE1	27:T:253:GLU:CB	2.86	0.52
28:U:9:THR:OG1	28:U:162:GLU:OE2	2.27	0.52
28:U:16:LEU:HB3	29:V:32:ILE:HG12	1.91	0.52
30:W:38:GLN:O	30:W:42:ASN:N	2.40	0.52
31:X:54:GLU:CD	31:X:102:GLN:HE22	2.17	0.52
31:X:87:PHE:HB2	31:X:99:PHE:CB	2.36	0.52
33:Z:452:LEU:HA	33:Z:474:LEU:HD11	1.90	0.52
9:b:23:TYR:O	9:b:26:THR:HB	2.08	0.52
9:b:82:TYR:O	9:b:86:VAL:HG23	2.09	0.52
12:e:35:SER:HA	12:e:53:ARG:NH2	2.25	0.52
12:e:201:LEU:HA	12:e:204:LEU:HD12	1.92	0.52
3:h:30:GLY:HA2	3:h:126:LYS:HG2	1.91	0.52
2:2:220:ARG:NH2	4:4:168:GLU:OE2	2.42	0.52
2:2:261:TYR:CD2	3:3:72:GLN:HG2	2.45	0.52
4:4:59:ASN:HD21	4:4:218:ASN:CG	2.18	0.52
1:8:212:GLU:HG3	4:i:225:ARG:HD2	1.91	0.52
1:8:215:ILE:HG12	4:i:53:PRO:O	2.10	0.52
8:A:147:ASP:OD2	8:A:150:LEU:N	2.42	0.52
12:E:36:THR:OG1	12:E:174:SER:OG	2.26	0.52
14:G:71:ASP:CG	14:G:72:ARG:H	2.18	0.52
15:H:61:ALA:O	15:H:65:GLU:N	2.24	0.52
15:H:149:LEU:HD22	15:H:179:SER:HB2	1.91	0.52
15:H:259:CYS:O	15:H:262:ALA:HB3	2.09	0.52
15:H:345:PRO:O	15:H:349:ILE:HB	2.10	0.52
15:H:436:LYS:HG3	15:H:437:VAL:HG22	1.91	0.52
16:I:288:PRO:HG2	16:I:331:ARG:HH12	1.73	0.52
18:K:128:ARG:HD2	29:V:271:VAL:C	2.35	0.52
18:K:332:GLY:C	18:K:333:ARG:HH11	2.18	0.52
18:K:362:LEU:HB2	18:K:366:ALA:HB3	1.92	0.52
20:M:73:ARG:HG2	20:M:77:TYR:OH	2.09	0.52
20:M:262:LEU:O	20:M:266:ALA:N	2.25	0.52
20:M:364:HIS:HE1	20:M:388:GLY:C	2.17	0.52
21:N:245:LEU:HD11	21:N:254:SER:HB3	1.90	0.52
21:N:670:LYS:HA	21:N:673:PRO:HG3	1.91	0.52
21:N:718:GLU:HA	21:N:725:LEU:HA	1.92	0.52
21:N:909:GLU:HB3	21:N:912:GLU:OE1	2.10	0.52
22:O:307:MET:O	22:O:309:SER:OG	2.27	0.52
23:P:384:VAL:HG11	24:Q:351:ILE:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:175:ALA:HB3	25:R:243:LEU:HD13	1.92	0.52
25:R:281:SER:C	25:R:284:ALA:H	2.18	0.52
26:S:163:VAL:HG12	26:S:168:LEU:HD22	1.92	0.52
26:S:194:LEU:HA	26:S:195:ALA:HB3	1.90	0.52
26:S:211:ARG:NH2	26:S:240:ASP:HB3	2.23	0.52
28:U:56:PHE:CD1	28:U:68:LEU:HB2	2.45	0.52
29:V:264:GLU:O	29:V:276:PRO:HA	2.09	0.52
30:W:180:LEU:O	30:W:184:ASN:N	2.30	0.52
33:Z:369:PHE:CD1	33:Z:390:LEU:HD21	2.45	0.52
33:Z:443:ASP:OD1	33:Z:447:VAL:HG21	2.08	0.52
33:Z:497:PHE:HB3	33:Z:501:LYS:HA	1.92	0.52
33:Z:847:ILE:O	33:Z:851:ALA:N	2.38	0.52
13:f:50:LYS:HE2	13:f:212:SER:HB2	1.92	0.52
13:f:73:SER:OG	13:f:133:LEU:HB2	2.10	0.52
4:i:46:ASP:HB2	4:i:199:GLY:O	2.10	0.52
5:j:15:MET:HA	5:j:136:PHE:HA	1.91	0.52
6:k:18:SER:HB2	6:k:176:PHE:HB2	1.92	0.52
6:k:19:LYS:HG2	6:k:180:ILE:HG13	1.92	0.52
7:l:125:ALA:HA	7:l:128:GLN:HB3	1.92	0.52
1:1:133:LEU:HD23	1:1:139:GLY:HA2	1.92	0.52
2:2:164:ASN:OD1	2:2:167:GLY:N	2.43	0.52
3:3:30:GLY:HA2	3:3:126:LYS:HG2	1.91	0.52
3:3:36:ASP:OD2	3:3:188:SER:HA	2.09	0.52
3:3:176:HIS:O	3:3:179:SER:OG	2.23	0.52
4:4:204:VAL:HB	4:4:216:LEU:HB2	1.92	0.52
8:A:115:ASP:HB3	8:A:155:TYR:CZ	2.45	0.52
11:D:203:VAL:HG21	11:D:210:ILE:HG12	1.92	0.52
13:F:55:GLU:OE1	13:F:55:GLU:N	2.33	0.52
13:F:66:CYS:HA	13:F:89:ARG:HG2	1.92	0.52
13:F:214:ALA:HA	13:F:224:ILE:HA	1.91	0.52
14:G:38:ILE:HA	14:G:164:ALA:HA	1.92	0.52
15:H:44:PRO:HA	33:Z:622:HIS:CD2	2.45	0.52
16:I:242:PRO:HG2	16:I:345:ASP:O	2.09	0.52
18:K:129:GLU:HA	29:V:274:GLN:N	2.20	0.52
18:K:343:LEU:C	18:K:345:ASP:N	2.68	0.52
18:K:363:ALA:CB	18:K:364:PRO:CD	2.86	0.52
19:L:300:GLU:CA	19:L:303:ARG:NH1	2.73	0.52
19:L:303:ARG:NH1	19:L:303:ARG:HB3	2.25	0.52
21:N:8:PRO:HG3	27:T:84:GLN:HA	1.92	0.52
21:N:43:LEU:HD23	21:N:46:ILE:HD12	1.92	0.52
21:N:263:SER:O	21:N:722:THR:HG21	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:333:SER:HB2	21:N:355:TRP:HZ2	1.74	0.52
21:N:444:HIS:HA	21:N:447:SER:HB2	1.91	0.52
21:N:542:SER:CB	21:N:547:LEU:HB2	2.39	0.52
21:N:750:SER:HA	21:N:753:PHE:CE2	2.44	0.52
22:O:362:GLN:OE1	28:U:230:GLN:NE2	2.42	0.52
23:P:202:LYS:HE2	23:P:206:LYS:NZ	2.25	0.52
23:P:223:LEU:HA	23:P:226:LYS:HE2	1.92	0.52
23:P:344:ARG:O	23:P:347:GLU:HB3	2.10	0.52
23:P:426:ILE:HD13	29:V:233:LYS:HG2	1.92	0.52
25:R:382:ASP:HB2	26:S:399:TYR:CD2	2.41	0.52
26:S:144:LEU:O	26:S:149:SER:OG	2.23	0.52
26:S:200:GLU:N	26:S:201:ILE:CB	2.73	0.52
26:S:231:ALA:HB3	26:S:259:TYR:CE2	2.45	0.52
26:S:452:TYR:C	26:S:454:SER:N	2.68	0.52
27:T:78:PHE:HE2	27:T:109:TYR:HB2	1.74	0.52
27:T:86:LYS:HB3	27:T:87:PRO:HD3	1.92	0.52
28:U:35:GLY:O	28:U:93:TYR:N	2.28	0.52
28:U:226:LEU:HA	28:U:229:LEU:HG	1.91	0.52
33:Z:106:TRP:HA	33:Z:112:LYS:HD3	1.92	0.52
33:Z:288:LEU:HD12	33:Z:293:MET:HE3	1.92	0.52
33:Z:305:VAL:HG12	33:Z:973:TYR:CE2	2.45	0.52
33:Z:789:GLN:CG	33:Z:792:VAL:H	2.22	0.52
11:d:10:ILE:HB	12:e:23:GLN:NE2	2.25	0.52
12:e:30:ALA:HA	12:e:33:LEU:HD12	1.91	0.52
14:g:141:VAL:HG21	14:g:221:LEU:N	2.24	0.52
4:i:59:ASN:HD21	4:i:218:ASN:CG	2.18	0.52
4:i:158:SER:OG	4:i:195:ASP:OD2	2.27	0.52
1:1:41:VAL:HG12	1:1:225:ILE:HA	1.92	0.52
1:1:143:SER:CB	1:1:156:ARG:HG2	2.40	0.52
1:1:156:ARG:HH22	7:l:103:SER:HB2	1.74	0.52
2:2:220:ARG:HB3	3:3:44:TYR:CE1	2.45	0.52
3:3:37:SER:OG	3:3:191:VAL:N	2.34	0.52
5:5:7:ILE:HA	5:5:32:GLN:OE1	2.10	0.52
5:5:149:MET:HE3	5:5:153:LEU:HD11	1.92	0.52
6:6:67:TYR:CE2	6:6:75:LEU:HD21	2.44	0.52
7:7:226:GLU:O	7:7:230:TYR:N	2.28	0.52
7:7:268:VAL:HB	5:j:203:ARG:HH22	1.75	0.52
7:7:282:PHE:O	7:7:285:VAL:N	2.39	0.52
1:8:143:SER:CB	1:8:156:ARG:HG2	2.40	0.52
2:9:87:SER:OG	2:9:146:ALA:HB3	2.10	0.52
2:9:127:GLU:HG2	13:F:100:ASN:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:46:LEU:O	10:C:214:ALA:N	2.31	0.52
11:D:79:ASN:O	11:D:82:SER:OG	2.26	0.52
14:G:129:VAL:O	14:G:131:PRO:HD3	2.10	0.52
14:G:224:THR:HB	14:G:227:LEU:HB2	1.91	0.52
15:H:213:GLY:HA3	15:H:388:ILE:HG12	1.92	0.52
16:I:123:LEU:O	16:I:126:ILE:HB	2.10	0.52
16:I:199:LYS:CB	16:I:273:ARG:HB3	2.30	0.52
17:J:51:LEU:HD11	18:K:72:GLN:HG3	1.92	0.52
18:K:218:GLY:HA2	18:K:221:MET:HB2	1.91	0.52
19:L:185:GLY:HA2	19:L:359:GLU:CD	2.35	0.52
20:M:19:ASP:O	20:M:23:LEU:HG	2.10	0.52
21:N:63:LEU:HD12	21:N:66:SER:HB2	1.91	0.52
21:N:758:VAL:HA	21:N:903:VAL:HG12	1.92	0.52
22:O:87:LYS:HE2	22:O:135:ARG:HA	1.90	0.52
22:O:130:ASP:O	22:O:134:ALA:HB3	2.08	0.52
22:O:287:LEU:O	22:O:291:ILE:N	2.26	0.52
22:O:340:SER:N	22:O:349:THR:O	2.43	0.52
22:O:356:ARG:NH1	22:O:356:ARG:CA	2.73	0.52
24:Q:133:LEU:HB3	24:Q:136:SER:OG	2.09	0.52
25:R:89:ASN:HD22	25:R:92:ILE:HB	1.75	0.52
25:R:154:LEU:O	25:R:158:LEU:N	2.26	0.52
26:S:247:VAL:O	26:S:249:SER:N	2.42	0.52
26:S:272:TYR:CE2	26:S:276:LEU:HD22	2.45	0.52
27:T:119:THR:O	27:T:122:PHE:HB3	2.10	0.52
28:U:7:LYS:HE3	28:U:158:PRO:O	2.10	0.52
28:U:65:VAL:HG21	30:W:92:GLN:HB3	1.92	0.52
28:U:127:GLN:HA	28:U:133:PRO:CB	2.39	0.52
28:U:169:ILE:HG23	29:V:149:GLY:C	2.34	0.52
33:Z:139:LEU:HD22	33:Z:199:ASP:HB3	1.91	0.52
33:Z:756:MET:HG3	33:Z:760:HIS:HB2	1.91	0.52
10:c:13:PHE:H	11:d:19:GLN:NE2	2.07	0.52
10:c:96:GLN:HB3	5:j:69:TYR:CD1	2.44	0.52
13:f:69:HIS:CD2	13:f:102:LYS:HB3	2.45	0.52
13:f:214:ALA:HA	13:f:224:ILE:HA	1.91	0.52
14:g:30:ALA:O	14:g:34:GLY:N	2.41	0.52
14:g:119:TYR:CE1	14:g:123:HIS:HE1	2.28	0.52
5:j:53:ILE:HB	5:j:60:VAL:HG13	1.91	0.52
7:l:117:LEU:HD21	7:l:260:TRP:CG	2.45	0.52
7:l:172:MET:N	7:l:192:SER:HB3	2.24	0.52
4:4:228:LYS:NZ	5:5:152:SER:O	2.30	0.52
5:5:63:LEU:HD21	5:5:103:TYR:CE2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:115:LYS:HB2	9:B:142:PHE:HE1	1.75	0.52
1:8:79:ASP:HB3	1:8:124:TYR:HB3	1.91	0.52
2:9:48:LYS:HD2	2:9:198:ILE:HD13	1.92	0.52
8:A:74:CYS:HA	8:A:80:GLY:HA2	1.90	0.52
10:C:15:PRO:HA	11:D:22:TYR:CE1	2.43	0.52
10:C:160:TRP:HH2	11:D:52:LEU:HD23	1.75	0.52
12:E:35:SER:HA	12:E:53:ARG:NH2	2.25	0.52
12:E:81:LEU:N	12:E:139:GLY:O	2.24	0.52
15:H:47:ALA:H	33:Z:622:HIS:HE1	1.55	0.52
15:H:104:LYS:H	15:H:144:LYS:HE3	1.75	0.52
16:I:281:GLN:C	16:I:283:TYR:N	2.64	0.52
17:J:44:LEU:HB3	18:K:68:ILE:CG2	2.39	0.52
18:K:98:GLN:OE1	18:K:135:MET:N	2.43	0.52
19:L:114:GLU:O	19:L:117:TYR:OH	2.25	0.52
19:L:148:LEU:HD23	19:L:155:ILE:HA	1.91	0.52
19:L:345:ARG:NH2	19:L:347:VAL:HA	2.25	0.52
20:M:407:GLN:HB3	20:M:409:SER:O	2.09	0.52
21:N:222:TYR:O	21:N:226:ASN:N	2.27	0.52
21:N:340:HIS:ND1	21:N:345:ASP:HB3	2.24	0.52
21:N:405:LEU:HD13	21:N:446:ALA:HB2	1.92	0.52
21:N:767:ALA:O	21:N:917:ILE:N	2.41	0.52
23:P:98:GLN:HA	23:P:101:MET:HG2	1.91	0.52
23:P:128:ASN:HD21	23:P:167:THR:HG22	1.75	0.52
24:Q:8:LEU:H	24:Q:50:ARG:HH22	1.58	0.52
24:Q:13:ARG:O	24:Q:16:ASN:N	2.43	0.52
24:Q:90:LYS:O	24:Q:93:THR:HB	2.10	0.52
24:Q:276:ASP:O	24:Q:280:ASN:N	2.31	0.52
28:U:37:ILE:HA	28:U:51:SER:HA	1.92	0.52
28:U:67:PHE:CD1	30:W:97:THR:HA	2.45	0.52
28:U:84:ASN:HB3	28:U:87:GLU:HG2	1.92	0.52
29:V:232:GLU:CA	29:V:235:GLU:HB3	2.35	0.52
33:Z:225:LEU:O	33:Z:257:PRO:HA	2.10	0.52
33:Z:342:LEU:CD1	33:Z:344:LYS:HD3	2.40	0.52
33:Z:584:VAL:CG1	33:Z:585:LEU:H	2.22	0.52
33:Z:819:GLY:HA3	33:Z:831:LEU:CD2	2.35	0.52
33:Z:884:THR:HG21	33:Z:904:LEU:HG	1.91	0.52
10:c:63:THR:O	10:c:67:TYR:OH	2.11	0.52
12:e:168:ASN:HB3	12:e:187:TRP:CE2	2.44	0.52
13:f:66:CYS:HA	13:f:89:ARG:HG2	1.92	0.52
14:g:42:CYS:HB2	14:g:187:LEU:O	2.10	0.52
1:1:119:LYS:HB3	1:1:123:PRO:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:182:LYS:O	4:4:185:SER:HB3	2.10	0.51
5:5:124:PHE:CE1	5:5:130:ILE:HG12	2.45	0.51
1:8:205:ASP:O	1:8:208:THR:OG1	2.26	0.51
1:8:210:ALA:HB1	1:8:217:VAL:HG21	1.91	0.51
14:G:9:ASP:HB2	14:G:26:TYR:HE2	1.75	0.51
14:G:13:SER:H	14:G:127:ASN:HA	1.75	0.51
15:H:98:GLN:HE21	15:H:193:PRO:HA	1.74	0.51
15:H:162:ARG:HD2	20:M:75:LEU:CD1	2.39	0.51
15:H:277:SER:HA	16:I:331:ARG:CZ	2.40	0.51
15:H:292:ARG:CG	15:H:339:GLN:HE22	2.22	0.51
15:H:331:ARG:HD3	20:M:285:ALA:HB2	1.90	0.51
15:H:389:PHE:CE1	15:H:419:LEU:HB3	2.46	0.51
18:K:135:MET:HE2	18:K:149:ILE:HB	1.91	0.51
18:K:260:LEU:O	18:K:264:ASN:ND2	2.42	0.51
18:K:344:ARG:HB2	18:K:349:ARG:CZ	2.40	0.51
20:M:392:LYS:O	20:M:396:VAL:N	2.24	0.51
21:N:668:THR:HA	21:N:675:VAL:HG11	1.92	0.51
22:O:12:SER:N	22:O:13:THR:CB	2.73	0.51
22:O:352:TRP:CG	22:O:353:VAL:N	2.77	0.51
23:P:164:GLN:HA	23:P:176:LYS:NZ	2.24	0.51
23:P:415:TRP:NE1	29:V:297:THR:OG1	2.34	0.51
23:P:429:ILE:O	23:P:433:ILE:HG13	2.10	0.51
24:Q:139:ILE:HD11	24:Q:165:PHE:CE2	2.45	0.51
25:R:107:GLU:O	25:R:111:LYS:N	2.32	0.51
25:R:292:LEU:HB3	25:R:307:TYR:HB3	1.92	0.51
26:S:10:VAL:O	26:S:14:GLY:N	2.36	0.51
26:S:306:SER:HA	26:S:310:LEU:HB3	1.92	0.51
27:T:129:LEU:HG	27:T:131:LYS:O	2.10	0.51
28:U:285:ILE:O	28:U:288:PHE:HB2	2.11	0.51
30:W:109:ARG:HA	30:W:138:ALA:O	2.11	0.51
30:W:143:ASN:ND2	30:W:173:THR:HG23	2.25	0.51
33:Z:274:SER:HB3	33:Z:279:THR:OG1	2.09	0.51
33:Z:275:GLN:CG	33:Z:278:LEU:HB3	2.30	0.51
33:Z:328:ASP:N	33:Z:332:ASN:H	2.08	0.51
8:a:51:THR:HB	8:a:228:ALA:HB3	1.91	0.51
8:a:115:ASP:HB3	8:a:155:TYR:CZ	2.45	0.51
8:a:242:GLU:O	8:a:246:VAL:N	2.41	0.51
9:b:8:SER:CB	10:c:129:ARG:H	2.23	0.51
9:b:48:GLU:O	9:b:63:LYS:NZ	2.41	0.51
10:c:198:SER:HA	10:c:206:LEU:HB2	1.90	0.51
11:d:70:HIS:HD2	11:d:138:PHE:O	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:224:THR:HB	14:g:227:LEU:HB2	1.91	0.51
4:i:49:SER:O	4:i:56:ALA:N	2.42	0.51
4:i:49:SER:HB2	4:i:60:CYS:SG	2.50	0.51
5:j:111:GLY:O	5:j:120:PHE:N	2.42	0.51
1:1:197:GLU:H	1:1:197:GLU:CD	2.16	0.51
1:1:210:ALA:HB1	1:1:217:VAL:HG21	1.91	0.51
2:2:87:SER:OG	2:2:146:ALA:HB3	2.10	0.51
6:6:40:PRO:HG2	6:6:74:GLU:CD	2.35	0.51
6:6:111:LYS:O	6:6:113:LYS:HG3	2.09	0.51
1:8:41:VAL:HG12	1:8:225:ILE:HA	1.92	0.51
8:A:12:TYR:O	8:A:15:HIS:N	2.44	0.51
8:A:89:ASP:OD1	14:G:121:GLN:NE2	2.43	0.51
11:D:70:HIS:HD2	11:D:138:PHE:O	1.93	0.51
11:D:187:THR:O	11:D:190:GLU:HG2	2.11	0.51
15:H:291:VAL:O	15:H:294:LEU:HB3	2.10	0.51
15:H:395:SER:OG	16:I:238:MET:O	2.28	0.51
16:I:281:GLN:CD	17:J:224:GLY:H	2.17	0.51
17:J:61:GLU:O	17:J:65:LEU:HG	2.10	0.51
17:J:172:GLU:O	17:J:176:SER:N	2.21	0.51
18:K:73:ARG:HA	18:K:76:LYS:HB3	1.90	0.51
18:K:207:ARG:HH22	18:K:306:PHE:HB2	1.75	0.51
18:K:381:ALA:O	18:K:385:ALA:N	2.40	0.51
20:M:334:ASP:CB	20:M:337:LEU:HG	2.36	0.51
21:N:399:PHE:N	21:N:399:PHE:CD1	2.77	0.51
22:O:387:ARG:HB3	27:T:266:TYR:CZ	2.45	0.51
23:P:115:ARG:HA	23:P:118:VAL:HB	1.92	0.51
23:P:277:GLN:O	23:P:281:ILE:HG13	2.09	0.51
24:Q:344:GLU:HA	24:Q:347:LEU:HD12	1.91	0.51
25:R:102:LEU:O	25:R:106:ASN:N	2.29	0.51
25:R:301:TYR:CE2	25:R:357:PHE:HB3	2.46	0.51
25:R:382:ASP:CA	26:S:399:TYR:HB2	2.40	0.51
26:S:267:SER:O	26:S:271:ARG:HG3	2.11	0.51
26:S:323:LEU:HD23	26:S:383:LEU:HD11	1.92	0.51
26:S:345:TYR:HD1	26:S:348:LEU:HD12	1.76	0.51
26:S:484:ASP:O	26:S:487:THR:OG1	2.21	0.51
27:T:6:GLU:HG2	27:T:7:LEU:N	2.25	0.51
27:T:51:TYR:HA	27:T:55:LEU:HD22	1.91	0.51
27:T:52:LEU:HD12	27:T:52:LEU:O	2.10	0.51
27:T:258:ASN:HA	27:T:261:GLU:OE1	2.10	0.51
28:U:32:ARG:O	28:U:34:VAL:HG23	2.10	0.51
28:U:205:LYS:O	28:U:209:GLU:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:17:ARG:HG3	30:W:18:ASN:HB2	1.91	0.51
33:Z:354:PRO:O	33:Z:357:ILE:HB	2.11	0.51
33:Z:847:ILE:O	33:Z:850:LEU:HB2	2.10	0.51
11:d:96:HIS:CD2	11:d:100:LEU:HD22	2.44	0.51
11:d:203:VAL:HG21	11:d:210:ILE:HG12	1.92	0.51
11:d:238:GLN:O	11:d:242:GLU:HG3	2.11	0.51
14:g:9:ASP:HB2	14:g:26:TYR:HE2	1.75	0.51
14:g:135:SER:OG	14:g:153:PRO:HD3	2.10	0.51
5:j:63:LEU:HD21	5:j:103:TYR:CE2	2.45	0.51
1:1:101:LYS:HD2	12:e:108:ASN:HD21	1.75	0.51
5:5:203:ARG:HH22	7:l:268:VAL:HB	1.75	0.51
6:6:18:SER:HB2	6:6:176:PHE:HB2	1.92	0.51
6:6:139:TYR:CE1	6:6:171:ARG:HB3	2.46	0.51
1:8:153:GLU:OE1	1:8:156:ARG:HB2	2.10	0.51
2:9:164:ASN:OD1	2:9:167:GLY:N	2.43	0.51
2:9:179:PHE:CE2	2:9:221:ASP:HB2	2.46	0.51
9:B:213:ILE:HG12	9:B:236:ARG:HG2	1.92	0.51
10:C:13:PHE:H	11:D:19:GLN:HE22	1.58	0.51
12:E:201:LEU:HA	12:E:204:LEU:HD12	1.91	0.51
14:G:151:LEU:HD13	14:G:157:TYR:CD2	2.41	0.51
15:H:196:THR:OG1	15:H:198:MET:O	2.17	0.51
15:H:254:THR:HA	16:I:367:ARG:CZ	2.40	0.51
17:J:26:LYS:CE	21:N:106:ILE:HD13	2.41	0.51
17:J:43:ARG:H	26:S:480:ARG:HH21	1.58	0.51
17:J:65:LEU:HD13	18:K:89:ILE:HD12	1.91	0.51
17:J:270:ARG:HA	17:J:273:LEU:HB2	1.91	0.51
18:K:190:LEU:HB3	18:K:191:PRO:HD3	1.91	0.51
18:K:299:LEU:O	18:K:303:MET:N	2.31	0.51
19:L:82:ARG:O	19:L:86:LYS:HG3	2.11	0.51
19:L:92:GLU:HA	19:L:95:ILE:HB	1.91	0.51
19:L:337:LEU:HA	19:L:342:ARG:CZ	2.39	0.51
20:M:14:GLY:HA2	20:M:17:GLU:CD	2.35	0.51
21:N:18:ASP:HB3	21:N:55:PHE:CD1	2.39	0.51
21:N:137:PHE:O	21:N:141:ILE:HG12	2.10	0.51
21:N:267:GLN:NE2	21:N:271:GLU:OE2	2.38	0.51
21:N:324:LYS:HB3	21:N:327:LEU:HB2	1.92	0.51
22:O:44:SER:HA	22:O:48:PHE:CZ	2.45	0.51
22:O:131:SER:O	22:O:135:ARG:CB	2.58	0.51
23:P:235:LEU:O	23:P:239:GLN:N	2.28	0.51
24:Q:390:LEU:N	24:Q:397:LEU:CD1	2.73	0.51
25:R:40:ILE:HG22	25:R:44:LYS:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:392:ARG:NH1	25:R:392:ARG:CG	2.73	0.51
25:R:414:LEU:HA	26:S:471:LEU:CD1	2.40	0.51
26:S:201:ILE:N	27:T:46:ILE:HD11	2.24	0.51
26:S:379:LEU:HD23	26:S:380:CYS:N	2.26	0.51
29:V:36:LYS:NZ	29:V:68:VAL:O	2.25	0.51
31:X:25:THR:HB	31:X:26:PRO:HD2	1.92	0.51
33:Z:446:GLU:HG3	33:Z:484:LYS:HG3	1.92	0.51
8:a:92:ASN:HB2	14:g:121:GLN:OE1	2.10	0.51
11:d:47:GLU:CD	11:d:166:ARG:HH21	2.19	0.51
11:d:122:GLN:HA	12:e:136:ARG:HG2	1.92	0.51
12:e:167:TYR:CE2	12:e:170:LYS:HD3	2.44	0.51
14:g:23:GLN:O	14:g:27:ALA:N	2.32	0.51
5:j:124:PHE:CE1	5:j:130:ILE:HG12	2.45	0.51
7:l:276:LYS:HZ1	7:l:285:VAL:C	2.19	0.51
2:2:193:ASP:N	2:2:197:ASP:OD2	2.43	0.51
4:4:230:LYS:HB3	4:4:232:TYR:CZ	2.45	0.51
6:6:41:HIS:HE2	6:6:109:LYS:HZ3	1.57	0.51
7:7:92:ASP:CG	7:7:108:LYS:HZ2	2.19	0.51
10:C:38:ILE:HG23	10:C:162:ALA:HB2	1.90	0.51
10:C:69:LEU:HB2	10:C:73:ILE:HG22	1.92	0.51
12:E:22:PHE:O	12:E:26:TYR:N	2.32	0.51
12:E:72:ARG:O	12:E:228:PHE:N	2.37	0.51
12:E:123:PHE:CZ	12:E:137:PRO:HG3	2.46	0.51
12:E:167:TYR:CE2	13:F:57:SER:HB3	2.45	0.51
15:H:234:ARG:HD3	20:M:403:LEU:HD21	1.93	0.51
15:H:275:ILE:HG21	16:I:335:GLU:OE1	2.11	0.51
15:H:341:ASP:CG	15:H:367:ARG:HH22	2.18	0.51
15:H:436:LYS:HG3	15:H:437:VAL:HG13	1.92	0.51
17:J:114:CYS:HB3	17:J:123:HIS:HB3	1.93	0.51
17:J:160:ILE:O	17:J:164:ILE:N	2.42	0.51
17:J:186:ILE:HG23	17:J:314:ILE:O	2.11	0.51
19:L:88:TYR:HA	20:M:33:ARG:HH21	1.74	0.51
20:M:139:LYS:HD3	20:M:158:THR:HG21	1.92	0.51
20:M:417:GLU:HA	20:M:420:SER:CB	2.41	0.51
21:N:75:TYR:CD2	21:N:104:LYS:HE2	2.45	0.51
21:N:701:VAL:O	21:N:705:ILE:N	2.33	0.51
22:O:253:GLN:O	22:O:256:ASN:HB2	2.09	0.51
23:P:113:ASN:O	23:P:117:SER:N	2.27	0.51
23:P:248:ASP:HB2	23:P:257:TRP:CD1	2.45	0.51
23:P:392:LYS:HE2	24:Q:354:PHE:HB2	1.72	0.51
24:Q:149:LYS:HA	24:Q:151:TYR:CE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:159:ASN:HA	24:Q:162:LEU:HD12	1.92	0.51
24:Q:339:TYR:HE1	24:Q:342:LEU:HD13	1.74	0.51
25:R:328:PHE:O	25:R:332:GLU:CB	2.58	0.51
26:S:391:GLY:O	26:S:394:ILE:HG13	2.10	0.51
27:T:86:LYS:HA	27:T:89:TYR:HB3	1.92	0.51
28:U:198:LYS:O	28:U:201:GLN:HB3	2.10	0.51
28:U:225:ILE:O	28:U:228:LYS:HB3	2.11	0.51
29:V:37:MET:HG2	29:V:108:TYR:CD2	2.46	0.51
30:W:162:ASN:HB2	30:W:169:SER:OG	2.11	0.51
30:W:179:ARG:HB3	30:W:184:ASN:HD21	1.75	0.51
33:Z:516:THR:HG23	33:Z:562:TRP:CD2	2.46	0.51
10:c:68:LYS:HA	10:c:74:ALA:HA	1.92	0.51
4:i:230:LYS:HB3	4:i:232:TYR:CZ	2.45	0.51
2:2:92:ASP:OD2	2:2:144:TRP:N	2.36	0.51
2:2:111:ASN:OD1	2:2:114:ALA:N	2.44	0.51
3:3:151:THR:O	3:h:152:PHE:HA	2.11	0.51
3:3:166:SER:HG	3:3:169:GLU:N	2.04	0.51
7:7:203:CYS:HB2	7:7:212:TYR:CE2	2.46	0.51
1:8:40:ALA:HB3	1:8:226:VAL:HB	1.92	0.51
2:9:111:ASN:OD1	2:9:114:ALA:N	2.43	0.51
10:C:68:LYS:HA	10:C:74:ALA:HA	1.92	0.51
10:C:218:LYS:HB2	10:C:225:VAL:HG22	1.91	0.51
13:F:50:LYS:HE2	13:F:212:SER:HB2	1.92	0.51
14:G:119:TYR:CE1	14:G:123:HIS:HE1	2.28	0.51
15:H:197:MET:HG3	15:H:290:MET:HE3	1.91	0.51
15:H:244:LYS:O	15:H:346:ARG:HD2	2.11	0.51
16:I:276:GLY:CA	16:I:279:LEU:HG	2.34	0.51
18:K:50:LYS:O	18:K:53:LYS:HB3	2.10	0.51
20:M:132:VAL:HG21	20:M:155:ILE:HB	1.92	0.51
20:M:267:PHE:HB2	20:M:311:GLN:OE1	2.10	0.51
21:N:311:ILE:HA	21:N:339:MET:HE1	1.93	0.51
21:N:437:GLU:HA	21:N:440:ASP:HB2	1.93	0.51
21:N:899:ASN:O	21:N:902:VAL:HG22	2.11	0.51
22:O:57:LEU:C	22:O:59:LEU:H	2.18	0.51
22:O:81:TYR:C	22:O:84:ALA:H	2.16	0.51
23:P:58:VAL:O	23:P:62:ILE:HG13	2.11	0.51
23:P:63:VAL:HA	23:P:66:LEU:HD12	1.92	0.51
23:P:404:LYS:HE3	23:P:406:LYS:HA	1.92	0.51
24:Q:64:LEU:HA	24:Q:67:THR:HB	1.92	0.51
25:R:252:TYR:OH	25:R:319:CYS:HB3	2.10	0.51
25:R:292:LEU:HD13	25:R:307:TYR:CD1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:400:TYR:HH	26:S:461:PHE:HE2	1.55	0.51
25:R:408:ASP:O	25:R:411:LEU:N	2.44	0.51
26:S:199:GLU:N	26:S:200:GLU:CA	2.73	0.51
26:S:339:GLN:HG2	26:S:340:LYS:H	1.75	0.51
28:U:69:ASP:OD1	28:U:70:HIS:N	2.44	0.51
31:X:31:GLY:HA2	31:X:54:GLU:HG3	1.92	0.51
33:Z:152:GLU:OE2	33:Z:155:ARG:NH2	2.43	0.51
33:Z:505:VAL:O	33:Z:509:LEU:N	2.30	0.51
33:Z:593:HIS:H	33:Z:596:THR:HB	1.70	0.51
33:Z:884:THR:HA	33:Z:903:MET:HE3	1.92	0.51
9:b:19:GLY:O	9:b:23:TYR:N	2.31	0.51
9:b:181:ASP:OD1	9:b:182:GLU:N	2.43	0.51
10:c:35:ALA:HB3	10:c:165:VAL:HG23	1.91	0.51
11:d:171:VAL:CG2	11:d:198:SER:HB2	2.41	0.51
12:e:73:HIS:C	12:e:222:ILE:HD11	2.36	0.51
13:f:84:LEU:HD21	13:f:128:TYR:CZ	2.45	0.51
14:g:68:GLN:O	14:g:76:CYS:N	2.43	0.51
3:h:59:LYS:HD3	3:h:121:TYR:CD2	2.45	0.51
3:h:171:VAL:O	3:h:175:LYS:N	2.35	0.51
7:l:204:VAL:HA	7:l:208:GLN:OE1	2.09	0.51
1:l:153:GLU:OE1	1:l:156:ARG:HB2	2.10	0.51
6:k:25:ILE:HG12	6:k:139:TYR:OH	2.10	0.51
6:6:181:VAL:O	6:6:192:VAL:N	2.43	0.51
9:B:42:GLY:HA2	9:B:145:PHE:CD1	2.46	0.51
9:B:128:ARG:NH1	9:B:129:PRO:O	2.43	0.51
9:B:159:TRP:CD2	9:B:162:THR:HB	2.46	0.51
10:C:119:LYS:HD3	10:C:153:PRO:HA	1.93	0.51
10:C:137:TYR:CE2	10:C:151:SER:HB3	2.46	0.51
11:D:47:GLU:CD	11:D:166:ARG:HH21	2.19	0.51
12:E:73:HIS:C	12:E:222:ILE:HD11	2.36	0.51
12:E:110:GLU:O	12:E:114:GLN:N	2.32	0.51
12:E:128:SER:HB2	13:F:125:GLY:HA3	1.91	0.51
13:F:87:TYR:O	13:F:91:GLN:HG2	2.11	0.51
15:H:96:PRO:HG2	16:I:137:GLU:OE2	2.10	0.51
15:H:170:GLU:N	15:H:174:VAL:HG22	2.26	0.51
16:I:199:LYS:N	16:I:273:ARG:O	2.40	0.51
17:J:130:ALA:HA	17:J:131:ASP:CG	2.35	0.51
17:J:346:VAL:HG12	17:J:350:MET:HE3	1.93	0.51
18:K:105:GLN:NE2	18:K:128:ARG:HD3	2.26	0.51
18:K:245:LYS:HZ1	19:L:256:ILE:HG12	1.74	0.51
18:K:281:ARG:HH21	18:K:284:ALA:HA	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:228:LYS:O	19:L:231:LEU:HB2	2.10	0.51
21:N:406:TYR:HB2	21:N:448:LEU:HB2	1.93	0.51
21:N:515:ARG:HD3	21:N:738:GLN:CD	2.36	0.51
22:O:140:LYS:CG	22:O:181:PHE:CD2	2.94	0.51
22:O:298:GLU:OE1	22:O:356:ARG:HD3	2.09	0.51
23:P:181:LEU:HD11	23:P:219:GLU:HB3	1.93	0.51
24:Q:65:TYR:HB3	24:Q:70:ALA:C	2.36	0.51
24:Q:151:TYR:HA	24:Q:154:SER:HB2	1.93	0.51
24:Q:284:ALA:O	24:Q:287:THR:OG1	2.28	0.51
25:R:96:GLN:HA	25:R:99:TYR:HD2	1.75	0.51
26:S:421:TYR:OH	27:T:208:LEU:O	2.28	0.51
26:S:458:GLN:HE22	28:U:270:ASN:HA	1.76	0.51
28:U:225:ILE:O	28:U:229:LEU:HG	2.10	0.51
28:U:234:ASN:O	28:U:259:ASN:ND2	2.43	0.51
29:V:162:GLY:N	29:V:165:ILE:HD12	2.26	0.51
29:V:241:THR:O	29:V:243:SER:N	2.44	0.51
5:j:100:PHE:C	5:j:102:PRO:HD3	2.36	0.51
7:l:94:ARG:HD2	7:l:245:TYR:C	2.35	0.51
1:1:40:ALA:O	1:1:226:VAL:N	2.36	0.51
1:1:213:ARG:HH12	4:4:58:LYS:H	1.59	0.51
2:2:94:GLN:HE22	3:h:138:VAL:N	1.99	0.51
2:2:179:PHE:CE2	2:2:221:ASP:HB2	2.46	0.51
4:4:49:SER:HB2	4:4:60:CYS:SG	2.50	0.51
5:5:100:PHE:C	5:5:102:PRO:HD3	2.36	0.51
7:7:94:ARG:HD2	7:7:245:TYR:C	2.35	0.51
9:B:181:ASP:OD1	9:B:182:GLU:N	2.43	0.51
12:E:167:TYR:CD2	12:E:170:LYS:HD3	2.45	0.51
13:F:69:HIS:CD2	13:F:102:LYS:HB3	2.45	0.51
15:H:200:VAL:HG13	15:H:271:PHE:O	2.11	0.51
15:H:310:GLU:HB3	15:H:313:ALA:HB2	1.92	0.51
16:I:358:ILE:HG13	16:I:359:GLU:N	2.26	0.51
16:I:359:GLU:C	16:I:361:LEU:H	2.18	0.51
17:J:234:PHE:HB2	17:J:275:LEU:HD22	1.92	0.51
19:L:345:ARG:CZ	19:L:347:VAL:HA	2.41	0.51
20:M:37:LEU:O	20:M:72:ASN:HB2	2.11	0.51
21:N:660:LEU:O	21:N:664:LEU:HG	2.11	0.51
22:O:64:ASN:C	22:O:66:VAL:N	2.68	0.51
23:P:131:PHE:C	23:P:133:GLU:H	2.19	0.51
23:P:269:VAL:HG12	23:P:341:LEU:HD22	1.93	0.51
24:Q:59:LEU:CD1	24:Q:103:LYS:HG3	2.38	0.51
24:Q:148:LYS:HG2	24:Q:150:GLN:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:214:MET:SD	26:S:233:LEU:HG	2.50	0.51
26:S:302:HIS:C	26:S:306:SER:HG	2.19	0.51
28:U:56:PHE:HD1	28:U:68:LEU:HB2	1.74	0.51
29:V:52:LEU:HD11	29:V:88:GLN:OE1	2.11	0.51
30:W:136:ASN:OD1	30:W:167:GLU:HG2	2.11	0.51
33:Z:232:LYS:O	33:Z:235:GLN:N	2.44	0.51
33:Z:315:ALA:HA	33:Z:321:PHE:CD2	2.46	0.51
33:Z:575:MET:CB	33:Z:606:CYS:CA	2.89	0.51
33:Z:602:LEU:HD11	33:Z:882:LEU:HD23	1.92	0.51
33:Z:884:THR:HG22	33:Z:903:MET:HE3	1.93	0.51
9:b:159:TRP:CD2	9:b:162:THR:HB	2.46	0.51
11:d:12:SER:CB	11:d:16:HIS:H	2.24	0.51
6:k:41:HIS:HE2	6:k:109:LYS:HZ3	1.58	0.51
7:l:219:TYR:OH	7:l:221:TRP:HA	2.11	0.51
4:4:37:PHE:HB2	4:4:175:LEU:O	2.11	0.51
8:A:51:THR:HB	8:A:228:ALA:HB3	1.91	0.51
8:A:126:GLN:OE1	9:B:80:PRO:HB2	2.11	0.51
10:C:181:LYS:O	10:C:184:MET:HG3	2.11	0.51
11:D:171:VAL:CG2	11:D:198:SER:HB2	2.41	0.51
12:E:205:LYS:HB2	12:E:212:LEU:HD13	1.93	0.51
15:H:95:HIS:HD2	15:H:190:ARG:O	1.93	0.51
15:H:376:GLU:OE1	15:H:378:SER:OG	2.29	0.51
17:J:35:ARG:O	17:J:35:ARG:NH1	2.39	0.51
17:J:43:ARG:HG3	26:S:480:ARG:NH2	2.25	0.51
18:K:129:GLU:CD	18:K:129:GLU:H	2.18	0.51
18:K:279:THR:OG1	18:K:323:THR:O	2.24	0.51
19:L:365:THR:HB	19:L:370:LYS:NZ	2.23	0.51
19:L:368:VAL:O	19:L:370:LYS:HG3	2.11	0.51
20:M:364:HIS:CE1	20:M:392:LYS:HB2	2.46	0.51
21:N:421:ASP:O	21:N:425:ASN:N	2.40	0.51
21:N:486:GLY:HA2	21:N:524:ILE:HG23	1.93	0.51
23:P:128:ASN:ND2	23:P:166:GLU:OE1	2.43	0.51
23:P:168:TYR:C	23:P:170:SER:N	2.69	0.51
23:P:198:VAL:HA	23:P:201:ARG:HE	1.75	0.51
23:P:222:ASN:C	23:P:226:LYS:HZ3	2.19	0.51
23:P:226:LYS:HA	23:P:229:LEU:HD12	1.93	0.51
23:P:393:VAL:N	24:Q:352:GLU:O	2.42	0.51
23:P:419:VAL:HG11	29:V:238:LEU:HA	1.92	0.51
26:S:228:GLU:CD	26:S:228:GLU:H	2.19	0.51
28:U:65:VAL:HG22	30:W:93:ILE:HG13	1.93	0.51
33:Z:162:GLY:O	33:Z:166:ASN:HB2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:753:GLY:N	33:Z:754:LYS:CB	2.73	0.51
33:Z:833:GLN:HA	33:Z:836:SER:OG	2.11	0.51
33:Z:928:ARG:CD	33:Z:968:ASP:HA	2.41	0.51
8:a:12:TYR:O	8:a:15:HIS:N	2.44	0.51
8:a:227:VAL:N	8:a:234:PHE:O	2.36	0.51
9:b:213:ILE:HG12	9:b:236:ARG:HG2	1.92	0.51
10:c:48:ALA:O	10:c:212:GLU:N	2.35	0.51
11:d:187:THR:O	11:d:190:GLU:HG2	2.11	0.51
14:g:12:ASN:OD1	14:g:21:ASN:ND2	2.40	0.51
4:i:182:LYS:O	4:i:185:SER:HB3	2.11	0.51
3:3:191:VAL:HG21	3:3:206:ILE:HD11	1.93	0.51
5:5:53:ILE:HG12	5:5:107:PRO:HB3	1.93	0.51
6:6:8:ARG:HG3	6:6:114:PRO:HB2	1.93	0.51
7:7:87:ILE:HG13	7:7:185:PRO:HB3	1.92	0.51
1:8:30:THR:HA	1:8:74:ASN:ND2	2.25	0.51
1:8:213:ARG:O	4:i:55:VAL:N	2.34	0.51
8:A:72:ILE:HG12	8:A:82:VAL:HB	1.92	0.51
9:B:44:VAL:HG23	9:B:213:ILE:HG22	1.93	0.51
9:B:109:LEU:O	9:B:113:GLU:HG2	2.11	0.51
12:E:233:ASN:O	12:E:236:THR:HB	2.11	0.51
13:F:73:SER:OG	13:F:133:LEU:HB2	2.10	0.51
13:F:84:LEU:HD21	13:F:128:TYR:CZ	2.45	0.51
14:G:23:GLN:O	14:G:27:ALA:N	2.32	0.51
15:H:156:VAL:HG22	15:H:181:TYR:CG	2.46	0.51
15:H:210:ASP:OD2	15:H:255:GLY:HA2	2.11	0.51
15:H:376:GLU:HG2	15:H:378:SER:N	2.26	0.51
16:I:145:ALA:O	16:I:157:VAL:N	2.27	0.51
16:I:212:GLY:HA3	16:I:388:ILE:HG12	1.93	0.51
17:J:163:VAL:C	17:J:167:PRO:HG2	2.35	0.51
19:L:361:PHE:O	19:L:365:THR:OG1	2.19	0.51
19:L:374:PHE:CZ	19:L:415:LEU:HD13	2.46	0.51
20:M:79:VAL:O	20:M:122:SER:N	2.43	0.51
20:M:127:VAL:HG21	20:M:153:TYR:HB3	1.93	0.51
21:N:111:GLN:C	21:N:115:LYS:HZ3	2.19	0.51
21:N:694:LEU:O	21:N:697:PHE:HB3	2.11	0.51
22:O:41:LEU:HG	22:O:50:ASP:O	2.11	0.51
23:P:256:LYS:O	23:P:259:PRO:HD2	2.11	0.51
23:P:348:HIS:HD1	23:P:351:ARG:HD2	1.76	0.51
25:R:128:LEU:HA	25:R:131:ALA:HB3	1.93	0.51
25:R:148:ASP:C	25:R:150:ALA:N	2.68	0.51
25:R:152:LYS:HB3	25:R:156:LYS:HZ1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:198:ILE:C	25:R:199:GLU:OE2	2.54	0.51
26:S:464:ARG:HH22	28:U:278:ILE:C	2.13	0.51
28:U:32:ARG:NE	28:U:58:GLU:OE2	2.44	0.51
28:U:119:LEU:HD12	28:U:137:TYR:O	2.11	0.51
33:Z:308:LYS:HZ2	33:Z:920:GLY:HA3	1.75	0.51
33:Z:557:GLU:OE1	33:Z:562:TRP:HD1	1.94	0.51
33:Z:839:SER:HB3	33:Z:845:LEU:HB2	1.93	0.51
11:d:64:VAL:HG22	11:d:74:SER:HB3	1.93	0.51
12:e:15:PHE:HE2	13:f:127:PRO:HD2	1.74	0.51
4:i:37:PHE:HB2	4:i:175:LEU:O	2.11	0.51
5:j:74:TYR:OH	5:j:80:ARG:NH2	2.44	0.51
5:j:149:MET:HE3	5:j:153:LEU:HD11	1.92	0.51
6:k:139:TYR:CE1	6:k:171:ARG:HB3	2.46	0.51
7:l:210:PHE:HB2	7:l:239:ALA:HB2	1.92	0.51
1:1:222:GLU:HG2	1:1:235:PHE:HD1	1.76	0.51
1:1:240:ARG:HB2	4:4:193:TRP:HZ3	1.76	0.51
3:3:176:HIS:HD2	3:h:159:LYS:NZ	2.09	0.51
2:9:107:ASN:ND2	2:9:118:GLU:O	2.37	0.51
9:B:113:GLU:O	9:B:116:LYS:HB3	2.11	0.51
11:D:64:VAL:HG22	11:D:74:SER:HB3	1.93	0.51
13:F:63:ILE:HG21	13:F:214:ALA:HB2	1.93	0.51
14:G:24:VAL:O	14:G:28:VAL:HG23	2.11	0.51
15:H:421:SER:HB2	15:H:450:VAL:HG21	1.92	0.51
16:I:280:ILE:HD12	16:I:282:LYS:HD3	1.93	0.51
17:J:42:ARG:HB2	26:S:480:ARG:NH2	2.25	0.51
17:J:156:GLN:O	17:J:160:ILE:N	2.31	0.51
18:K:69:LYS:O	18:K:72:GLN:HB3	2.11	0.51
19:L:150:ILE:HG23	19:L:151:THR:HG23	1.93	0.51
19:L:411:ASN:HB2	19:L:412:PRO:HD2	1.92	0.51
20:M:136:ASP:O	20:M:140:LEU:HG	2.10	0.51
20:M:166:ARG:O	20:M:167:VAL:C	2.54	0.51
20:M:302:GLN:NE2	20:M:306:LEU:HD11	2.21	0.51
21:N:539:MET:HE1	21:N:554:THR:HG21	1.92	0.51
21:N:593:PHE:CE1	21:N:627:ILE:HG21	2.45	0.51
22:O:225:ASP:HA	22:O:226:LYS:CB	2.36	0.51
22:O:301:PHE:O	22:O:303:LYS:HB2	2.11	0.51
23:P:123:ARG:HB3	23:P:128:ASN:N	2.26	0.51
23:P:297:GLU:O	23:P:301:LYS:N	2.38	0.51
24:Q:39:SER:OG	24:Q:87:GLN:HB3	2.11	0.51
24:Q:75:ARG:HH11	24:Q:116:PHE:HE2	1.58	0.51
24:Q:91:SER:HB3	9:b:249:ALA:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:135:HIS:O	24:Q:139:ILE:HG13	2.11	0.51
25:R:31:PHE:CE1	25:R:320:LYS:HA	2.45	0.51
25:R:74:ASN:HA	25:R:87:SER:HA	1.93	0.51
26:S:144:LEU:HD22	26:S:155:LEU:HD13	1.92	0.51
26:S:296:ALA:C	26:S:299:LYS:HG2	2.36	0.51
27:T:20:TYR:HB3	27:T:68:ALA:HB1	1.92	0.51
27:T:105:LEU:O	27:T:109:TYR:N	2.40	0.51
27:T:118:ASN:HB3	27:T:121:LYS:NZ	2.26	0.51
27:T:190:ALA:HB1	27:T:226:TRP:CH2	2.46	0.51
28:U:191:THR:HA	28:U:194:LEU:HD12	1.92	0.51
29:V:117:TRP:HA	29:V:156:PHE:HZ	1.76	0.51
30:W:157:PHE:O	30:W:161:VAL:HG23	2.11	0.51
31:X:48:PHE:CD2	31:X:66:LEU:HD23	2.46	0.51
33:Z:298:PHE:HB3	33:Z:338:HIS:HB3	1.93	0.51
33:Z:542:ILE:HA	33:Z:545:SER:HB2	1.91	0.51
33:Z:740:VAL:HG21	33:Z:769:ASN:ND2	2.25	0.51
33:Z:753:GLY:C	33:Z:755:GLU:H	2.17	0.51
33:Z:958:ASN:H	33:Z:961:GLU:CD	2.18	0.51
9:b:42:GLY:HA2	9:b:145:PHE:CD1	2.46	0.51
9:b:109:LEU:O	9:b:113:GLU:HG2	2.11	0.51
9:b:113:GLU:O	9:b:116:LYS:HB3	2.11	0.51
9:b:128:ARG:NH1	9:b:129:PRO:O	2.43	0.51
11:d:25:GLU:O	11:d:29:ARG:N	2.34	0.51
14:g:38:ILE:HA	14:g:164:ALA:HA	1.92	0.51
14:g:115:ARG:HH21	3:h:89:TYR:HE2	1.58	0.51
14:g:185:GLU:HG3	14:g:186:GLY:N	2.26	0.51
6:k:181:VAL:O	6:k:192:VAL:N	2.43	0.51
7:l:203:CYS:HB2	7:l:212:TYR:CE2	2.46	0.51
1:1:56:SER:OG	1:1:58:TYR:O	2.27	0.50
3:3:158:ASP:HB2	3:h:184:TRP:HZ2	1.77	0.50
7:7:282:PHE:HB3	7:7:285:VAL:CG2	2.41	0.50
1:8:95:HIS:O	1:8:100:ASP:N	2.30	0.50
1:8:119:LYS:HB3	1:8:123:PRO:HA	1.92	0.50
2:9:100:LEU:HD21	2:9:129:LEU:HD21	1.93	0.50
12:E:176:SER:OG	12:E:177:GLU:OE1	2.29	0.50
14:G:48:PHE:N	14:G:217:SER:O	2.27	0.50
14:G:68:GLN:O	14:G:76:CYS:N	2.43	0.50
14:G:200:ILE:HG21	14:G:214:LEU:HD13	1.92	0.50
15:H:67:ALA:O	15:H:71:GLU:HG3	2.11	0.50
15:H:368:PRO:HG3	20:M:390:GLN:N	2.26	0.50
15:H:377:PHE:O	15:H:378:SER:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:436:LYS:HG3	15:H:437:VAL:N	2.26	0.50
16:I:124:GLU:O	16:I:127:ARG:N	2.44	0.50
18:K:155:ASP:HA	18:K:160:VAL:HA	1.92	0.50
19:L:92:GLU:HB2	20:M:29:GLU:OE1	2.11	0.50
21:N:27:SER:O	21:N:31:VAL:HG22	2.11	0.50
21:N:344:THR:HA	21:N:374:ILE:HG22	1.92	0.50
21:N:424:LYS:HA	21:N:427:ILE:HB	1.92	0.50
21:N:591:LEU:O	21:N:595:LEU:N	2.39	0.50
21:N:924:LYS:HG3	21:N:925:ASP:HB2	1.93	0.50
22:O:196:LEU:CD2	22:O:233:LEU:HD21	2.40	0.50
23:P:261:LEU:O	23:P:264:ILE:N	2.44	0.50
23:P:284:ILE:HG23	23:P:285:GLN:H	1.75	0.50
25:R:116:LYS:HE2	25:R:133:ALA:HB2	1.93	0.50
26:S:338:MET:HB2	26:S:343:LEU:H	1.76	0.50
26:S:390:THR:HG23	26:S:393:ARG:NH2	2.23	0.50
26:S:464:ARG:HH12	28:U:278:ILE:CA	2.24	0.50
27:T:33:GLU:HB3	27:T:37:ASN:ND2	2.26	0.50
28:U:11:ALA:O	28:U:14:VAL:HB	2.10	0.50
28:U:270:ASN:O	28:U:274:MET:HG3	2.11	0.50
31:X:14:VAL:HG23	31:X:50:TRP:CD1	2.46	0.50
33:Z:299:ASP:O	33:Z:338:HIS:HE1	1.94	0.50
33:Z:602:LEU:CD1	33:Z:882:LEU:CD2	2.89	0.50
33:Z:985:LYS:HD2	33:Z:986:ASN:H	1.76	0.50
12:e:167:TYR:CD2	12:e:170:LYS:HD3	2.45	0.50
12:e:211:LYS:C	12:e:216:ASN:HD21	2.20	0.50
12:e:220:SER:CB	12:e:230:ILE:HA	2.41	0.50
13:f:63:ILE:HG21	13:f:214:ALA:HB2	1.93	0.50
13:f:87:TYR:O	13:f:91:GLN:HG2	2.11	0.50
2:2:49:TYR:HE2	2:2:51:ASN:HB2	1.76	0.50
2:2:90:ILE:HG23	2:2:93:MET:HE2	1.94	0.50
4:4:38:ASN:HD21	4:4:176:THR:HA	1.76	0.50
9:B:48:GLU:O	9:B:63:LYS:NZ	2.41	0.50
11:D:239:GLU:HA	11:D:242:GLU:CD	2.37	0.50
15:H:69:VAL:O	15:H:72:SER:OG	2.13	0.50
15:H:280:VAL:O	16:I:285:GLY:HA3	2.11	0.50
15:H:395:SER:O	16:I:238:MET:CB	2.60	0.50
17:J:173:LEU:C	17:J:176:SER:HG	2.19	0.50
17:J:257:ARG:HH22	17:J:295:ASN:HB2	1.76	0.50
17:J:329:ARG:HA	17:J:343:LEU:HD13	1.94	0.50
17:J:334:LYS:HA	25:R:203:ASP:OD2	2.11	0.50
18:K:98:GLN:HB3	18:K:111:SER:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:170:MET:SD	19:L:265:GLU:HG3	2.51	0.50
19:L:370:LYS:HA	19:L:410:ILE:N	2.26	0.50
20:M:167:VAL:CG2	20:M:262:LEU:HD22	2.41	0.50
20:M:362:GLN:O	20:M:366:ARG:N	2.44	0.50
21:N:6:ALA:C	21:N:10:LEU:HG	2.37	0.50
21:N:28:ILE:O	21:N:32:VAL:HG23	2.11	0.50
21:N:120:ASP:OD1	21:N:121:GLU:N	2.43	0.50
21:N:875:LEU:HD23	21:N:877:GLN:HB2	1.93	0.50
22:O:100:ASP:O	22:O:104:ALA:HB3	2.10	0.50
22:O:245:ASP:O	22:O:248:TYR:HB2	2.11	0.50
22:O:245:ASP:HA	22:O:249:ASP:OD1	2.11	0.50
22:O:301:PHE:CE2	22:O:308:LEU:N	2.78	0.50
23:P:307:GLU:HB3	23:P:309:MET:HG2	1.93	0.50
23:P:324:GLU:HA	23:P:334:ASN:OD1	2.11	0.50
24:Q:135:HIS:CG	24:Q:164:GLU:HG2	2.46	0.50
24:Q:162:LEU:HB3	24:Q:166:LYS:HE3	1.93	0.50
24:Q:275:ILE:HG22	24:Q:279:LYS:HZ3	1.75	0.50
24:Q:364:LYS:C	24:Q:367:GLY:H	2.19	0.50
24:Q:415:LEU:O	24:Q:418:GLN:N	2.44	0.50
25:R:175:ALA:CB	25:R:243:LEU:HD13	2.42	0.50
25:R:198:ILE:HG12	25:R:200:LYS:HB3	1.91	0.50
26:S:302:HIS:CG	26:S:305:LYS:HB2	2.46	0.50
26:S:338:MET:CG	26:S:343:LEU:H	2.23	0.50
27:T:197:TYR:O	27:T:235:PHE:HD2	1.93	0.50
27:T:254:ASP:HB2	27:T:258:ASN:OD1	2.10	0.50
30:W:51:LEU:O	30:W:62:LEU:N	2.42	0.50
30:W:113:PHE:HA	30:W:142:ILE:HB	1.92	0.50
30:W:186:ALA:HA	30:W:191:ILE:HD11	1.92	0.50
31:X:14:VAL:C	31:X:29:VAL:HG21	2.36	0.50
31:X:33:ILE:HD13	31:X:99:PHE:CG	2.45	0.50
33:Z:309:GLN:NE2	33:Z:974:THR:O	2.45	0.50
33:Z:394:TYR:HE2	33:Z:858:GLY:C	2.18	0.50
33:Z:518:LEU:HD21	33:Z:896:LYS:HE3	1.92	0.50
33:Z:774:ARG:NE	33:Z:893:PHE:HB2	2.26	0.50
9:b:38:LYS:HA	9:b:43:VAL:HG22	1.93	0.50
9:b:68:THR:O	9:b:71:ILE:N	2.39	0.50
12:e:205:LYS:HB2	12:e:212:LEU:HD13	1.93	0.50
14:g:243:ALA:O	14:g:247:ILE:N	2.33	0.50
3:h:116:ILE:O	3:h:132:ILE:N	2.29	0.50
1:1:141:VAL:HB	1:1:153:GLU:O	2.12	0.50
2:2:122:PRO:HB3	2:2:151:GLY:HA3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:186:PRO:HA	2:2:189:ARG:HB2	1.94	0.50
6:6:33:ASP:OD1	6:6:35:THR:N	2.28	0.50
6:6:60:ILE:HA	6:6:63:ASN:OD1	2.11	0.50
7:7:172:MET:N	7:7:192:SER:HB3	2.24	0.50
8:A:219:SER:N	8:A:222:ASP:OD2	2.28	0.50
9:B:38:LYS:HA	9:B:43:VAL:HG22	1.93	0.50
10:C:198:SER:N	10:C:206:LEU:HD22	2.27	0.50
11:D:238:GLN:O	11:D:242:GLU:HG3	2.11	0.50
12:E:220:SER:CB	12:E:230:ILE:HA	2.41	0.50
13:F:7:ASP:HA	13:F:20:PHE:HB2	1.91	0.50
13:F:171:TYR:O	13:F:175:THR:OG1	2.19	0.50
14:G:9:ASP:HB3	14:G:22:PHE:CD2	2.46	0.50
17:J:172:GLU:HA	17:J:175:GLU:HB2	1.94	0.50
17:J:334:LYS:O	25:R:203:ASP:HB3	2.11	0.50
18:K:342:SER:HA	18:K:343:LEU:HD12	1.92	0.50
20:M:81:ASN:CG	20:M:143:ASN:HA	2.36	0.50
20:M:167:VAL:HG21	20:M:262:LEU:HD22	1.93	0.50
20:M:178:GLU:HB3	20:M:182:ASP:OD2	2.10	0.50
20:M:375:ASN:HB3	20:M:378:GLU:CD	2.37	0.50
21:N:539:MET:HB3	21:N:547:LEU:O	2.11	0.50
21:N:758:VAL:O	21:N:871:MET:N	2.45	0.50
22:O:130:ASP:HA	22:O:153:LEU:CD1	2.42	0.50
22:O:167:ILE:O	22:O:170:SER:HB3	2.12	0.50
22:O:277:ILE:HG23	22:O:279:ILE:HD12	1.93	0.50
22:O:331:ALA:HA	22:O:337:LEU:HB2	1.93	0.50
25:R:198:ILE:HG12	25:R:200:LYS:CB	2.40	0.50
25:R:259:PHE:HE1	25:R:333:MET:H	1.60	0.50
25:R:371:PHE:CB	25:R:377:LEU:CD2	2.82	0.50
25:R:400:TYR:HH	28:U:274:MET:HA	1.74	0.50
26:S:240:ASP:HA	26:S:243:ASN:ND2	2.26	0.50
26:S:296:ALA:O	26:S:299:LYS:O	2.29	0.50
26:S:437:ASN:HB3	26:S:439:GLU:HG2	1.93	0.50
26:S:453:ASP:HB3	28:U:271:ASP:CG	2.36	0.50
27:T:57:ILE:HA	27:T:60:ARG:HB2	1.92	0.50
27:T:149:ASP:O	27:T:153:MET:N	2.27	0.50
33:Z:304:PRO:CA	33:Z:340:LEU:HD13	2.37	0.50
33:Z:358:TYR:CD2	33:Z:960:GLY:O	2.65	0.50
33:Z:364:ASN:HD22	33:Z:954:PRO:HG2	1.76	0.50
33:Z:397:ASP:HB3	33:Z:425:ILE:HG21	1.93	0.50
33:Z:623:ARG:HG3	33:Z:739:ALA:HB2	1.92	0.50
33:Z:915:ALA:HA	33:Z:981:VAL:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:44:VAL:HG23	9:b:213:ILE:HG22	1.93	0.50
10:c:208:TYR:CG	10:c:209:ASP:N	2.79	0.50
11:d:6:ARG:O	11:d:125:GLY:N	2.37	0.50
3:h:12:LYS:HE2	4:i:120:GLN:HB3	1.93	0.50
3:h:152:PHE:HE2	3:h:185:ASP:HB2	1.76	0.50
5:j:78:GLU:HB3	5:j:80:ARG:HG2	1.93	0.50
6:k:40:PRO:HG2	6:k:74:GLU:CD	2.35	0.50
2:2:107:ASN:HB2	2:2:120:LEU:HD21	1.93	0.50
2:2:126:PHE:CZ	2:2:161:ARG:HG2	2.47	0.50
5:5:74:TYR:OH	5:5:80:ARG:NH2	2.44	0.50
5:5:154:TYR:OH	5:5:156:PRO:HA	2.12	0.50
1:8:119:LYS:O	1:8:122:PHE:N	2.42	0.50
1:8:240:ARG:HH21	2:9:193:ASP:CG	2.18	0.50
9:B:174:PHE:O	9:B:177:LYS:HB2	2.11	0.50
14:G:42:CYS:HB2	14:G:187:LEU:O	2.10	0.50
16:I:136:LEU:H	16:I:172:CYS:C	2.19	0.50
16:I:374:LYS:NZ	16:I:376:LEU:HB3	2.26	0.50
17:J:55:VAL:HG21	18:K:75:LEU:HD22	1.93	0.50
17:J:354:SER:H	17:J:357:ASP:HB2	1.76	0.50
18:K:63:LEU:HD12	18:K:66:ASP:HB2	1.94	0.50
18:K:66:ASP:HA	18:K:69:LYS:HZ1	1.77	0.50
18:K:215:PRO:C	18:K:217:THR:N	2.67	0.50
19:L:94:ASP:O	19:L:98:LEU:HG	2.11	0.50
19:L:138:SER:OG	19:L:139:LYS:N	2.44	0.50
19:L:164:ASP:HB3	19:L:265:GLU:HG2	1.93	0.50
19:L:180:PHE:HA	19:L:234:ALA:HB1	1.93	0.50
19:L:300:GLU:C	19:L:303:ARG:HH12	2.19	0.50
20:M:77:TYR:HD2	20:M:148:VAL:O	1.95	0.50
21:N:209:LYS:O	21:N:213:PHE:N	2.30	0.50
22:O:310:PHE:CD2	22:O:346:GLU:C	2.90	0.50
23:P:48:GLN:HA	23:P:86:HIS:HB2	1.94	0.50
23:P:308:LEU:HD23	23:P:369:LEU:HG	1.93	0.50
23:P:417:HIS:HA	23:P:420:ASP:CB	2.40	0.50
25:R:38:VAL:N	25:R:42:GLN:OE1	2.45	0.50
25:R:45:GLU:HA	25:R:48:GLU:OE1	2.10	0.50
25:R:172:LEU:HB3	25:R:176:ARG:NH1	2.23	0.50
26:S:290:ASN:ND2	26:S:294:ILE:HD11	2.26	0.50
26:S:323:LEU:HD21	26:S:379:LEU:HG	1.92	0.50
27:T:85:LEU:O	27:T:89:TYR:N	2.26	0.50
27:T:250:MET:HA	27:T:251:HIS:C	2.34	0.50
29:V:238:LEU:N	29:V:241:THR:OG1	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:Y:73:PHE:O	32:Y:77:LEU:N	2.29	0.50
32:Y:84:TYR:O	32:Y:88:ASN:N	2.32	0.50
33:Z:236:PHE:CE2	33:Z:237:VAL:HG23	2.47	0.50
33:Z:337:GLU:HA	33:Z:340:LEU:HD21	1.93	0.50
33:Z:560:THR:O	33:Z:563:VAL:HB	2.11	0.50
33:Z:877:THR:O	33:Z:880:SER:N	2.41	0.50
33:Z:925:VAL:HG22	33:Z:983:LEU:HD12	1.92	0.50
9:b:224:TYR:HD2	4:i:68:PRO:HB3	1.76	0.50
10:c:119:LYS:HD3	10:c:153:PRO:HA	1.93	0.50
10:c:218:LYS:HA	10:c:225:VAL:HA	1.94	0.50
12:e:128:SER:HB2	13:f:125:GLY:HA3	1.93	0.50
14:g:9:ASP:HB3	14:g:22:PHE:CD2	2.46	0.50
14:g:71:ASP:CG	14:g:72:ARG:H	2.18	0.50
4:i:51:GLN:HG3	4:i:56:ALA:HB2	1.94	0.50
5:j:70:LYS:HD3	5:j:90:LEU:HD11	1.92	0.50
5:j:183:TRP:HA	5:j:204:GLN:OE1	2.11	0.50
6:k:8:ARG:HG3	6:k:114:PRO:HB2	1.93	0.50
6:k:60:ILE:HA	6:k:63:ASN:OD1	2.11	0.50
7:l:95:ALA:O	7:l:103:SER:N	2.38	0.50
7:l:282:PHE:HB3	7:l:285:VAL:CG2	2.41	0.50
2:2:48:LYS:HD2	2:2:198:ILE:HD13	1.92	0.50
2:2:89:ASP:OD2	2:2:91:SER:OG	2.30	0.50
2:2:164:ASN:ND2	2:2:168:VAL:HB	2.15	0.50
5:5:69:TYR:CD1	10:C:96:GLN:HB3	2.47	0.50
5:5:75:LYS:HG3	5:5:80:ARG:C	2.37	0.50
5:5:125:ASP:OD1	5:5:129:CYS:N	2.45	0.50
7:7:179:TYR:HB3	7:7:256:THR:C	2.36	0.50
7:7:219:TYR:OH	7:7:221:TRP:HA	2.11	0.50
8:A:130:GLN:HA	9:B:128:ARG:HE	1.75	0.50
15:H:175:GLY:HA3	15:H:189:PRO:HB3	1.92	0.50
17:J:39:GLU:OE1	26:S:480:ARG:NH1	2.43	0.50
17:J:79:VAL:HG12	17:J:80:SER:N	2.26	0.50
17:J:388:LYS:O	17:J:391:ASN:HB2	2.12	0.50
18:K:215:PRO:HB2	18:K:220:THR:OG1	2.11	0.50
18:K:259:ARG:O	18:K:263:GLU:N	2.34	0.50
18:K:342:SER:CA	18:K:343:LEU:HD12	2.40	0.50
18:K:397:LYS:HB2	18:K:399:ARG:HG3	1.93	0.50
19:L:77:ARG:HG3	20:M:19:ASP:CG	2.36	0.50
19:L:297:ALA:O	19:L:300:GLU:HB2	2.12	0.50
19:L:397:GLU:HB2	19:L:418:ALA:HB1	1.94	0.50
21:N:498:ILE:HG13	21:N:524:ILE:HD11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:196:LEU:HD23	22:O:233:LEU:HD11	1.93	0.50
22:O:262:ASP:OD2	22:O:265:LYS:HG3	2.11	0.50
23:P:97:ILE:O	23:P:100:VAL:HB	2.11	0.50
23:P:218:LEU:O	23:P:222:ASN:N	2.38	0.50
24:Q:27:TYR:HE1	24:Q:57:SER:HB2	1.72	0.50
24:Q:39:SER:OG	24:Q:87:GLN:O	2.25	0.50
24:Q:66:VAL:C	24:Q:69:GLY:H	2.19	0.50
24:Q:135:HIS:CD2	24:Q:161:LEU:HD23	2.47	0.50
24:Q:372:GLN:HE22	24:Q:376:LYS:HZ3	1.42	0.50
24:Q:408:THR:HA	29:V:255:ILE:HD12	1.92	0.50
24:Q:408:THR:O	24:Q:411:SER:HB2	2.10	0.50
25:R:67:CYS:HG	25:R:94:PHE:HE1	1.57	0.50
26:S:17:ASP:HA	26:S:20:HIS:HB2	1.93	0.50
26:S:51:ARG:O	26:S:55:ARG:N	2.27	0.50
26:S:251:SER:HA	26:S:254:ILE:HB	1.93	0.50
26:S:342:LEU:HD21	26:S:346:TYR:HB2	1.93	0.50
26:S:465:ILE:HD13	27:T:260:ILE:HG21	1.92	0.50
28:U:94:HIS:CE1	28:U:122:ILE:HA	2.47	0.50
28:U:166:ALA:HA	28:U:169:ILE:HD12	1.93	0.50
29:V:158:LEU:HD21	29:V:193:ASN:HB2	1.94	0.50
33:Z:831:LEU:HD22	33:Z:855:LEU:HD13	1.92	0.50
33:Z:917:ASN:HD22	33:Z:923:ILE:HG21	1.77	0.50
9:b:95:THR:OG1	9:b:96:SER:N	2.44	0.50
9:b:158:PRO:HG2	10:c:58:GLU:O	2.12	0.50
11:d:239:GLU:HA	11:d:242:GLU:CD	2.37	0.50
12:e:35:SER:OG	12:e:66:LYS:NZ	2.45	0.50
12:e:153:TYR:OH	12:e:224:LYS:N	2.34	0.50
13:f:13:PHE:HE2	14:g:131:PRO:HD2	1.76	0.50
13:f:227:GLY:O	13:f:230:VAL:N	2.44	0.50
14:g:9:ASP:HB2	14:g:26:TYR:CE2	2.47	0.50
5:j:53:ILE:HG12	5:j:107:PRO:HB3	1.93	0.50
7:l:87:ILE:HG13	7:l:185:PRO:HB3	1.92	0.50
2:2:51:ASN:HA	2:2:235:LYS:HE2	1.94	0.50
2:2:90:ILE:O	2:2:94:GLN:N	2.29	0.50
2:2:100:LEU:HD21	2:2:129:LEU:HD21	1.93	0.50
2:2:254:PHE:HB2	4:4:152:TYR:CE1	2.46	0.50
4:4:48:ARG:CZ	4:4:199:GLY:HA3	2.42	0.50
1:8:133:LEU:HD23	1:8:139:GLY:HA2	1.92	0.50
2:9:89:ASP:OD2	2:9:91:SER:OG	2.30	0.50
2:9:109:TYR:HB3	14:G:93:ARG:NH1	2.27	0.50
2:9:193:ASP:N	2:9:197:ASP:OD2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:20:TYR:O	10:C:24:TYR:N	2.34	0.50
10:C:208:TYR:CG	10:C:209:ASP:N	2.79	0.50
12:E:17:PRO:HA	13:F:24:TYR:CE1	2.46	0.50
13:F:227:GLY:O	13:F:230:VAL:N	2.44	0.50
15:H:254:THR:HA	16:I:367:ARG:NH1	2.27	0.50
16:I:377:PHE:HZ	16:I:416:GLY:H	1.59	0.50
16:I:399:SER:OG	16:I:439:THR:HA	2.12	0.50
16:I:431:LEU:C	16:I:434:ARG:H	2.20	0.50
17:J:160:ILE:HG23	17:J:164:ILE:HD12	1.94	0.50
18:K:349:ARG:HH21	18:K:377:SER:N	2.10	0.50
19:L:364:HIS:HB3	19:L:392:ARG:HG2	1.94	0.50
21:N:69:TYR:HA	21:N:72:LEU:HB2	1.93	0.50
21:N:70:TYR:CE2	26:S:219:LYS:HA	2.46	0.50
21:N:192:LEU:O	21:N:196:THR:HG23	2.11	0.50
21:N:200:SER:HB2	21:N:203:ARG:HH21	1.77	0.50
22:O:169:ASN:HA	22:O:195:TYR:HE1	1.77	0.50
22:O:214:ALA:HA	22:O:217:LEU:HB3	1.94	0.50
24:Q:90:LYS:CE	24:Q:130:ARG:HB2	2.41	0.50
24:Q:372:GLN:O	24:Q:376:LYS:NZ	2.45	0.50
24:Q:390:LEU:HD23	24:Q:397:LEU:HD13	1.91	0.50
25:R:220:ALA:HB2	25:R:321:TYR:CE1	2.46	0.50
25:R:296:LEU:HD13	25:R:304:TYR:CD2	2.47	0.50
25:R:333:MET:O	25:R:337:VAL:N	2.43	0.50
25:R:405:LYS:O	25:R:408:ASP:HB2	2.10	0.50
26:S:1:MET:N	26:S:3:SER:OG	2.43	0.50
26:S:241:PHE:HA	26:S:245:GLY:HA3	1.93	0.50
26:S:475:TYR:OH	28:U:288:PHE:O	2.28	0.50
27:T:93:ASN:O	27:T:95:LYS:N	2.45	0.50
29:V:33:ALA:HB2	29:V:67:ASP:HA	1.94	0.50
30:W:16:SER:C	30:W:18:ASN:H	2.19	0.50
33:Z:131:LYS:HA	33:Z:135:LEU:CB	2.41	0.50
33:Z:326:VAL:O	33:Z:330:ILE:N	2.45	0.50
33:Z:839:SER:CB	33:Z:845:LEU:HB2	2.42	0.50
33:Z:877:THR:OG1	33:Z:907:GLY:HA3	2.11	0.50
8:a:30:TYR:CE1	14:g:17:PRO:HA	2.46	0.50
8:a:72:ILE:HG12	8:a:82:VAL:HB	1.92	0.50
10:c:208:TYR:CG	10:c:236:LYS:HB2	2.47	0.50
12:e:123:PHE:CZ	12:e:137:PRO:HG3	2.46	0.50
4:i:38:ASN:HD21	4:i:176:THR:HA	1.76	0.50
6:k:161:LEU:O	6:k:165:VAL:HG23	2.12	0.50
1:l:171:ASN:ND2	5:j:169:GLN:HB3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:221:LEU:O	1:8:236:TYR:N	2.33	0.50
2:9:49:TYR:HE2	2:9:51:ASN:HB2	1.76	0.50
2:9:73:GLU:OE2	2:9:75:LEU:HB2	2.12	0.50
11:D:80:ALA:HA	11:D:83:ARG:CZ	2.42	0.50
13:F:135:ILE:HD12	13:F:216:VAL:HG12	1.93	0.50
17:J:99:ALA:H	17:J:122:LEU:HB2	1.76	0.50
17:J:339:ARG:HE	25:R:238:PHE:N	2.10	0.50
18:K:113:THR:HG21	19:L:126:ARG:HB2	1.94	0.50
18:K:267:SER:HB3	18:K:312:VAL:HG22	1.93	0.50
20:M:145:LEU:HB3	20:M:159:LEU:HB2	1.94	0.50
21:N:6:ALA:O	21:N:10:LEU:HG	2.11	0.50
21:N:239:LEU:HD22	21:N:280:GLN:HG3	1.93	0.50
21:N:255:ALA:HB1	21:N:259:PHE:CE2	2.46	0.50
22:O:4:ASN:O	22:O:8:ASP:CA	2.60	0.50
22:O:310:PHE:O	22:O:313:ILE:HB	2.12	0.50
23:P:60:ALA:HB1	23:P:96:MET:SD	2.52	0.50
23:P:325:ASP:N	23:P:337:HIS:CE1	2.75	0.50
24:Q:93:THR:O	24:Q:97:LEU:N	2.39	0.50
24:Q:363:SER:HB3	24:Q:369:ASP:O	2.11	0.50
25:R:141:TYR:HA	25:R:144:ILE:HB	1.93	0.50
25:R:174:ILE:HA	25:R:177:LEU:HD12	1.94	0.50
26:S:158:PHE:O	26:S:162:VAL:HG23	2.12	0.50
26:S:186:TYR:O	26:S:189:LEU:HB3	2.11	0.50
27:T:169:GLN:NE2	27:T:173:GLU:HB2	2.27	0.50
27:T:250:MET:CA	27:T:252:GLU:N	2.71	0.50
28:U:24:ARG:NH1	29:V:100:ARG:HA	2.26	0.50
28:U:282:VAL:HG22	28:U:285:ILE:HD12	1.93	0.50
30:W:49:VAL:O	30:W:71:LYS:HE2	2.11	0.50
33:Z:497:PHE:HB3	33:Z:533:VAL:HG13	1.94	0.50
8:a:31:ALA:HB1	8:a:138:GLY:HA2	1.93	0.50
9:b:115:ALA:HB1	9:b:154:GLY:O	2.12	0.50
3:h:172:ASP:O	3:h:176:HIS:ND1	2.32	0.50
4:i:60:CYS:O	4:i:217:ARG:NH1	2.30	0.50
5:j:154:TYR:OH	5:j:156:PRO:HA	2.12	0.50
7:l:179:TYR:HB3	7:l:256:THR:C	2.36	0.50
1:1:127:HIS:NE2	1:1:143:SER:HB2	2.27	0.50
5:5:103:TYR:HA	6:6:93:ARG:NH2	2.16	0.50
1:8:40:ALA:O	1:8:226:VAL:N	2.36	0.50
2:9:107:ASN:HB2	2:9:120:LEU:HD21	1.93	0.50
8:A:133:TYR:CZ	8:A:134:MET:HG2	2.46	0.50
8:A:141:LEU:HB2	8:A:157:THR:OG1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:176:GLN:O	8:A:179:THR:HB	2.11	0.50
9:B:189:ILE:O	9:B:193:LEU:HG	2.12	0.50
11:D:230:ASN:HA	11:D:233:VAL:HB	1.94	0.50
12:E:99:HIS:HE2	12:E:105:GLU:HG3	1.77	0.50
13:F:179:PHE:O	13:F:182:ILE:N	2.45	0.50
14:G:12:ASN:ND2	14:G:131:PRO:HD3	2.26	0.50
14:G:116:LEU:O	14:G:119:TYR:N	2.45	0.50
15:H:253:GLY:N	15:H:256:LYS:HB3	2.25	0.50
15:H:328:GLU:O	15:H:332:THR:N	2.34	0.50
15:H:385:ARG:O	15:H:389:PHE:N	2.28	0.50
16:I:133:ILE:HG13	17:J:95:ILE:N	2.27	0.50
16:I:140:ILE:C	16:I:142:ASP:H	2.20	0.50
16:I:195:VAL:HG23	17:J:231:ARG:NH2	2.27	0.50
17:J:163:VAL:O	17:J:167:PRO:HG2	2.12	0.50
17:J:210:PHE:HA	17:J:244:ILE:O	2.11	0.50
17:J:268:VAL:O	17:J:271:THR:HB	2.12	0.50
17:J:297:LEU:HD13	17:J:305:LEU:HD11	1.94	0.50
18:K:157:SER:CA	18:K:159:SER:H	2.17	0.50
18:K:240:SER:HB3	19:L:307:GLU:HG3	1.92	0.50
18:K:288:SER:HG	19:L:256:ILE:HG22	1.60	0.50
19:L:105:ILE:HD11	20:M:128:PHE:N	2.27	0.50
19:L:131:VAL:HA	19:L:155:ILE:HD12	1.93	0.50
19:L:132:ARG:HD2	29:V:46:PRO:CD	2.42	0.50
19:L:233:LYS:O	19:L:237:ALA:N	2.36	0.50
19:L:374:PHE:HD2	19:L:376:PHE:CE1	2.30	0.50
19:L:415:LEU:O	19:L:418:ALA:HB3	2.12	0.50
20:M:121:THR:OG1	20:M:123:SER:OG	2.13	0.50
20:M:302:GLN:O	20:M:305:MET:HB3	2.12	0.50
21:N:8:PRO:O	21:N:12:LEU:N	2.30	0.50
21:N:52:ASP:O	21:N:58:ARG:HD3	2.11	0.50
21:N:300:ASN:O	21:N:304:LEU:N	2.38	0.50
21:N:325:PHE:CD2	29:V:185:ILE:HG12	2.46	0.50
21:N:419:THR:O	21:N:423:LEU:HG	2.12	0.50
21:N:546:LEU:O	21:N:549:TYR:HB3	2.12	0.50
21:N:893:VAL:HG13	21:N:906:ARG:HD3	1.94	0.50
22:O:94:GLU:OE1	22:O:94:GLU:HA	2.11	0.50
22:O:124:ASP:OD1	22:O:125:GLY:N	2.40	0.50
22:O:338:LYS:CB	22:O:351:SER:HB2	2.42	0.50
23:P:60:ALA:HA	23:P:96:MET:HG3	1.94	0.50
23:P:143:LEU:CD2	23:P:147:LYS:HE3	2.42	0.50
24:Q:280:ASN:HA	24:Q:283:ASN:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:23:ASN:O	25:R:26:VAL:HB	2.12	0.50
26:S:404:LEU:HD12	26:S:443:ILE:HD11	1.93	0.50
27:T:92:ASN:OD1	27:T:93:ASN:N	2.32	0.50
29:V:264:GLU:OE2	29:V:279:HIS:N	2.44	0.50
30:W:38:GLN:HG3	30:W:42:ASN:ND2	2.26	0.50
30:W:139:VAL:HG11	30:W:157:PHE:HE2	1.75	0.50
33:Z:478:VAL:HG21	33:Z:493:LEU:HD22	1.94	0.50
33:Z:815:MET:HA	33:Z:830:LEU:HD21	1.94	0.50
33:Z:923:ILE:CA	33:Z:959:HIS:ND1	2.75	0.50
8:a:42:SER:N	8:a:171:THR:O	2.26	0.50
8:a:108:TYR:CZ	4:i:95:HIS:CD2	3.00	0.50
9:b:184:GLU:CD	9:b:186:GLU:H	2.19	0.50
10:c:181:LYS:O	10:c:184:MET:HG3	2.11	0.50
13:f:34:VAL:C	13:f:62:LYS:HE2	2.37	0.50
13:f:69:HIS:CE1	13:f:70:MET:HE3	2.47	0.50
3:h:27:PHE:HE1	3:h:32:ILE:HG13	1.77	0.50
4:i:48:ARG:CZ	4:i:199:GLY:HA3	2.42	0.50
4:i:204:VAL:HB	4:i:216:LEU:HB2	1.92	0.50
3:3:59:LYS:HD3	3:3:121:TYR:CD2	2.45	0.50
3:3:152:PHE:HE2	3:3:185:ASP:HB2	1.76	0.50
5:5:169:GLN:C	5:5:173:ASN:HD22	2.19	0.50
2:9:51:ASN:HA	2:9:235:LYS:HE2	1.94	0.50
10:C:208:TYR:CG	10:C:236:LYS:HB2	2.47	0.50
10:C:240:VAL:HA	10:C:245:THR:HA	1.94	0.50
14:G:100:LYS:O	14:G:104:LYS:N	2.36	0.50
15:H:63:ILE:HA	15:H:66:LYS:HB3	1.93	0.50
15:H:332:THR:O	15:H:335:GLU:HB3	2.11	0.50
16:I:223:GLU:O	16:I:227:LEU:HB3	2.11	0.50
16:I:334:LEU:O	16:I:338:ASN:N	2.43	0.50
16:I:407:LEU:O	16:I:411:LYS:HG3	2.11	0.50
17:J:182:PRO:HA	17:J:311:ASP:OD2	2.11	0.50
17:J:250:ILE:HG23	17:J:251:ASP:N	2.25	0.50
17:J:350:MET:HE2	17:J:361:VAL:HG21	1.93	0.50
18:K:103:ILE:N	18:K:107:THR:O	2.43	0.50
18:K:236:ARG:HH12	19:L:315:PHE:H	1.59	0.50
19:L:145:ARG:HD2	19:L:160:PRO:O	2.12	0.50
19:L:264:ARG:HA	19:L:267:PHE:HB3	1.94	0.50
20:M:175:LYS:HD3	20:M:240:ASN:OD1	2.12	0.50
20:M:175:LYS:HE2	20:M:241:ALA:C	2.37	0.50
21:N:163:LEU:HD13	21:N:209:LYS:NZ	2.27	0.50
21:N:359:ALA:O	21:N:364:LYS:HE3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:384:LYS:HA	21:N:387:ALA:HB2	1.92	0.50
21:N:581:ASP:HB3	21:N:616:HIS:HB2	1.93	0.50
22:O:210:ARG:HH21	22:O:237:PRO:C	2.16	0.50
22:O:280:LEU:O	22:O:284:GLU:N	2.33	0.50
23:P:110:LEU:HA	23:P:113:ASN:HB2	1.94	0.50
23:P:173:MET:O	23:P:177:ILE:HG12	2.12	0.50
23:P:249:ALA:HB2	23:P:257:TRP:CH2	2.47	0.50
23:P:258:LYS:HZ3	23:P:290:LEU:HD11	1.76	0.50
23:P:354:SER:HA	23:P:402:PHE:CE1	2.47	0.50
24:Q:82:THR:HA	24:Q:93:THR:HG23	1.93	0.50
24:Q:131:VAL:HA	24:Q:134:LYS:NZ	2.26	0.50
25:R:344:SER:CB	25:R:390:THR:HG23	2.41	0.50
26:S:144:LEU:C	26:S:149:SER:HG	2.15	0.50
26:S:385:SER:HA	26:S:388:ILE:HB	1.92	0.50
27:T:146:ILE:O	27:T:150:ARG:HG3	2.12	0.50
28:U:7:LYS:HB2	28:U:158:PRO:O	2.12	0.50
29:V:28:TYR:O	29:V:29:ILE:HD13	2.10	0.50
29:V:37:MET:CE	29:V:108:TYR:HB2	2.41	0.50
29:V:111:HIS:CD2	29:V:118:LEU:HD22	2.47	0.50
30:W:69:PHE:HA	30:W:72:ILE:HD12	1.94	0.50
31:X:12:ALA:HB3	31:X:33:ILE:HG22	1.94	0.50
31:X:48:PHE:HD2	31:X:66:LEU:HD23	1.77	0.50
33:Z:142:ASP:HA	33:Z:202:ARG:O	2.12	0.50
33:Z:201:LEU:HD22	33:Z:227:ILE:HG23	1.94	0.50
33:Z:562:TRP:CE2	33:Z:566:LEU:HD11	2.46	0.50
33:Z:824:ASN:HA	33:Z:828:ALA:HA	1.93	0.50
8:a:110:TYR:CD1	4:i:104:ARG:HD2	2.47	0.50
9:b:90:ARG:NH1	4:i:97:LEU:HB3	2.25	0.50
9:b:174:PHE:O	9:b:177:LYS:HB2	2.12	0.50
9:b:220:ASP:OD1	9:b:221:LEU:N	2.43	0.50
10:c:13:PHE:CZ	11:d:127:ARG:HD2	2.46	0.50
10:c:98:TYR:CE2	10:c:106:ILE:HA	2.47	0.50
11:d:71:VAL:HG22	11:d:106:VAL:HG22	1.94	0.50
11:d:230:ASN:HA	11:d:233:VAL:HB	1.94	0.50
13:f:135:ILE:HD12	13:f:216:VAL:HG12	1.93	0.50
14:g:200:ILE:HG21	14:g:214:LEU:HD13	1.93	0.50
3:h:166:SER:HG	3:h:169:GLU:N	2.05	0.50
4:i:129:VAL:N	4:i:140:PHE:O	2.41	0.50
5:j:23:ILE:HG22	5:j:188:TYR:HB2	1.94	0.50
6:k:120:ASP:OD1	6:k:124:THR:N	2.31	0.50
7:l:207:GLY:HA3	7:l:239:ALA:HB1	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:73:GLU:OE2	2:2:75:LEU:HB2	2.12	0.49
4:4:132:VAL:HA	4:4:137:SER:HA	1.94	0.49
5:5:189:ILE:N	5:5:196:VAL:O	2.38	0.49
6:6:55:GLN:HG3	7:7:163:TYR:CD1	2.46	0.49
6:6:65:GLN:HA	6:6:68:SER:HB2	1.94	0.49
6:6:169:GLU:HG2	6:6:176:PHE:CZ	2.47	0.49
7:7:141:HIS:HD2	7:7:149:ILE:HB	1.77	0.49
9:B:190:HIS:HA	9:B:193:LEU:HD12	1.93	0.49
11:D:9:SER:HB2	11:D:121:THR:O	2.12	0.49
11:D:12:SER:CB	11:D:16:HIS:H	2.24	0.49
16:I:281:GLN:HG2	17:J:224:GLY:H	1.65	0.49
16:I:369:GLY:O	16:I:370:ARG:NH1	2.41	0.49
17:J:165:GLU:HG3	17:J:202:VAL:HG13	1.92	0.49
18:K:162:GLY:N	18:K:236:ARG:O	2.40	0.49
19:L:254:LYS:CG	20:M:255:TYR:CD1	2.94	0.49
19:L:283:VAL:HG13	19:L:286:ILE:CG1	2.39	0.49
19:L:300:GLU:C	19:L:303:ARG:NH1	2.70	0.49
21:N:43:LEU:HA	21:N:46:ILE:HD12	1.93	0.49
21:N:345:ASP:OD1	21:N:346:ASN:N	2.45	0.49
21:N:413:ALA:HA	21:N:453:ALA:HA	1.92	0.49
21:N:561:GLY:N	21:N:593:PHE:O	2.44	0.49
21:N:779:GLU:HB3	21:N:782:PHE:CD1	2.47	0.49
22:O:164:PRO:O	22:O:167:ILE:HG22	2.12	0.49
22:O:216:ASP:HA	22:O:219:ILE:HB	1.93	0.49
22:O:238:ILE:O	22:O:242:ILE:N	2.25	0.49
22:O:322:ASP:HA	22:O:325:GLU:CD	2.36	0.49
23:P:94:GLN:HG2	23:P:97:ILE:HD12	1.94	0.49
23:P:267:PHE:CE1	23:P:329:PHE:HD1	2.27	0.49
24:Q:138:SER:HB3	24:Q:157:LEU:HD21	1.92	0.49
24:Q:214:THR:O	24:Q:218:LEU:HG	2.12	0.49
25:R:131:ALA:O	25:R:134:TRP:HB2	2.12	0.49
25:R:191:LEU:HA	25:R:194:VAL:HG12	1.94	0.49
25:R:259:PHE:CE1	25:R:333:MET:HE3	2.34	0.49
25:R:307:TYR:O	25:R:311:THR:N	2.37	0.49
26:S:175:SER:OG	26:S:178:LEU:HB2	2.12	0.49
26:S:185:PHE:HE2	26:S:239:ARG:HH22	1.58	0.49
28:U:32:ARG:CZ	28:U:100:ARG:HD2	2.42	0.49
28:U:36:VAL:N	28:U:52:PHE:O	2.45	0.49
30:W:69:PHE:CD1	30:W:72:ILE:HB	2.47	0.49
31:X:31:GLY:N	31:X:102:GLN:OE1	2.45	0.49
33:Z:252:CYS:HA	33:Z:256:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:357:ILE:HG21	33:Z:959:HIS:CD2	2.47	0.49
33:Z:762:GLY:N	33:Z:789:GLN:HE21	2.09	0.49
33:Z:794:ASP:CG	33:Z:829:GLN:HB3	2.37	0.49
8:a:141:LEU:HB2	8:a:157:THR:OG1	2.12	0.49
8:a:186:PHE:HA	8:a:189:SER:OG	2.12	0.49
8:a:205:PHE:O	8:a:208:THR:HB	2.12	0.49
9:b:189:ILE:O	9:b:193:LEU:HG	2.12	0.49
9:b:224:TYR:HA	4:i:212:ASP:HB3	1.92	0.49
13:f:40:SER:HB2	13:f:183:ASP:OD1	2.12	0.49
14:g:67:ILE:HG21	14:g:217:SER:OG	2.11	0.49
3:h:54:THR:HB	3:h:62:CYS:SG	2.52	0.49
4:i:132:VAL:HA	4:i:137:SER:HA	1.94	0.49
5:j:75:LYS:HG3	5:j:80:ARG:O	2.11	0.49
6:k:35:THR:OG1	6:k:44:MET:O	2.16	0.49
6:k:169:GLU:HG2	6:k:176:PHE:CZ	2.47	0.49
7:l:141:HIS:HD2	7:l:149:ILE:HB	1.77	0.49
1:1:96:PHE:CD2	13:f:89:ARG:HD3	2.47	0.49
4:4:51:GLN:HG3	4:4:56:ALA:HB2	1.94	0.49
4:4:51:GLN:N	4:4:54:ILE:O	2.39	0.49
5:5:20:CYS:HA	5:5:112:ILE:HD11	1.95	0.49
5:5:75:LYS:HG3	5:5:80:ARG:O	2.11	0.49
6:6:139:TYR:OH	6:k:25:ILE:O	2.30	0.49
1:8:127:HIS:NE2	1:8:143:SER:HB2	2.27	0.49
2:9:90:ILE:HG23	2:9:93:MET:HE2	1.94	0.49
2:9:260:GLY:HA3	2:9:264:GLN:HB3	1.94	0.49
8:A:61:ASP:OD1	8:A:62:LYS:N	2.45	0.49
10:C:98:TYR:CE2	10:C:106:ILE:HA	2.47	0.49
11:D:174:PHE:C	11:D:178:ASN:HD22	2.17	0.49
13:F:40:SER:HB2	13:F:183:ASP:OD1	2.12	0.49
14:G:9:ASP:HB2	14:G:26:TYR:CE2	2.47	0.49
15:H:283:TYR:HB3	20:M:254:MET:SD	2.52	0.49
15:H:331:ARG:CZ	20:M:249:PRO:HD3	2.41	0.49
15:H:367:ARG:NH1	20:M:224:PRO:HG2	2.27	0.49
15:H:373:ARG:NH1	20:M:421:GLU:OE1	2.39	0.49
16:I:367:ARG:O	16:I:370:ARG:HB2	2.12	0.49
18:K:48:TYR:OH	21:N:140:MET:HB3	2.12	0.49
18:K:81:ARG:O	18:K:84:GLU:HB2	2.12	0.49
18:K:129:GLU:HG3	29:V:273:ARG:CB	2.42	0.49
18:K:411:TYR:O	18:K:415:VAL:HG13	2.12	0.49
20:M:21:GLU:O	20:M:24:ASN:HB2	2.13	0.49
21:N:117:TYR:OH	21:N:202:PHE:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:325:PHE:CG	29:V:185:ILE:HG12	2.46	0.49
21:N:371:LEU:HB2	21:N:386:MET:HE1	1.93	0.49
21:N:740:TRP:HA	21:N:743:PHE:CE1	2.47	0.49
21:N:889:ARG:HD3	21:N:909:GLU:OE1	2.12	0.49
22:O:131:SER:O	22:O:135:ARG:HB3	2.11	0.49
22:O:227:ILE:HD11	22:O:336:LEU:HB2	1.94	0.49
23:P:63:VAL:HG13	23:P:79:LEU:HD21	1.94	0.49
23:P:112:LEU:HB3	23:P:115:ARG:NH2	2.26	0.49
23:P:135:GLU:O	23:P:138:ARG:N	2.45	0.49
23:P:174:SER:O	23:P:178:GLN:HG3	2.12	0.49
23:P:225:VAL:O	23:P:229:LEU:HG	2.12	0.49
25:R:292:LEU:HD22	25:R:307:TYR:CZ	2.46	0.49
25:R:344:SER:CB	25:R:345:TYR:C	2.86	0.49
26:S:200:GLU:CA	26:S:201:ILE:CB	2.90	0.49
26:S:397:LEU:HA	26:S:445:THR:HG21	1.94	0.49
27:T:46:ILE:HG22	27:T:48:ASN:H	1.76	0.49
27:T:213:ASN:OD1	27:T:215:LYS:N	2.32	0.49
27:T:215:LYS:HG2	27:T:218:GLU:OE1	2.12	0.49
27:T:220:PHE:O	27:T:224:ARG:HG2	2.11	0.49
28:U:24:ARG:CZ	29:V:100:ARG:HD3	2.42	0.49
29:V:55:GLY:N	29:V:102:GLN:HB3	2.27	0.49
29:V:55:GLY:H	29:V:102:GLN:HB3	1.76	0.49
33:Z:535:VAL:HG13	33:Z:572:ILE:HG22	1.95	0.49
33:Z:804:ASP:HB3	33:Z:807:VAL:HG23	1.94	0.49
33:Z:832:ARG:HA	33:Z:835:ALA:HB3	1.94	0.49
8:a:166:TYR:HA	9:b:56:ALA:HA	1.93	0.49
9:b:184:GLU:OE1	9:b:186:GLU:N	2.44	0.49
10:c:198:SER:N	10:c:206:LEU:HD22	2.27	0.49
11:d:151:GLU:OE2	11:d:155:ILE:HB	2.12	0.49
12:e:99:HIS:HE2	12:e:105:GLU:HG3	1.77	0.49
12:e:233:ASN:O	12:e:236:THR:HB	2.11	0.49
14:g:67:ILE:HG12	14:g:77:VAL:HB	1.94	0.49
14:g:116:LEU:O	14:g:119:TYR:N	2.45	0.49
5:j:11:ILE:HG22	5:j:140:GLY:HA3	1.94	0.49
2:2:221:ASP:OD1	2:2:223:ARG:N	2.38	0.49
2:2:260:GLY:HA3	2:2:264:GLN:HB3	1.94	0.49
3:3:122:ASP:N	3:3:126:LYS:O	2.40	0.49
3:3:194:MET:N	3:3:205:LEU:O	2.27	0.49
4:4:139:LEU:HG	4:4:154:LEU:HD12	1.95	0.49
5:5:21:VAL:HG23	5:5:190:ILE:HB	1.93	0.49
6:6:7:ILE:HD11	6:6:148:TYR:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:55:GLN:HG3	7:7:163:TYR:CG	2.47	0.49
7:7:180:THR:N	7:7:184:GLY:O	2.43	0.49
9:B:184:GLU:CD	9:B:186:GLU:H	2.19	0.49
11:D:38:GLY:N	11:D:41:CYS:O	2.46	0.49
12:E:47:VAL:HG11	12:E:197:GLU:HA	1.94	0.49
14:G:43:ASN:ND2	14:G:188:SER:HA	2.27	0.49
14:G:185:GLU:HG3	14:G:186:GLY:N	2.26	0.49
15:H:58:ASP:OD1	16:I:161:SER:N	2.45	0.49
15:H:272:ILE:HB	15:H:306:ILE:HA	1.94	0.49
16:I:422:MET:SD	16:I:447:LYS:HB2	2.52	0.49
17:J:252:SER:HB3	17:J:257:ARG:NH1	2.27	0.49
18:K:380:GLY:HA2	18:K:383:ILE:HD12	1.93	0.49
18:K:394:ALA:O	18:K:399:ARG:N	2.35	0.49
20:M:221:TYR:CE1	20:M:346:LYS:HG2	2.47	0.49
21:N:309:ILE:CG2	21:N:311:ILE:HG23	2.43	0.49
21:N:475:ALA:N	29:V:59:ASP:OD2	2.37	0.49
21:N:502:PHE:O	21:N:505:SER:HB2	2.12	0.49
21:N:891:VAL:N	21:N:906:ARG:O	2.45	0.49
22:O:174:THR:O	22:O:177:GLN:HB2	2.12	0.49
22:O:280:LEU:HA	22:O:283:HIS:CB	2.37	0.49
22:O:356:ARG:C	22:O:357:ILE:CG1	2.85	0.49
23:P:48:GLN:HA	23:P:86:HIS:CB	2.42	0.49
23:P:112:LEU:O	23:P:115:ARG:HB3	2.12	0.49
23:P:144:VAL:HG11	23:P:186:LEU:HD11	1.94	0.49
24:Q:62:GLY:HA2	24:Q:65:TYR:HB2	1.94	0.49
24:Q:234:THR:OG1	24:Q:235:ALA:N	2.46	0.49
24:Q:354:PHE:C	24:Q:356:CYS:H	2.19	0.49
25:R:37:LYS:HG3	25:R:38:VAL:H	1.78	0.49
25:R:53:LYS:HA	25:R:56:GLU:HB3	1.93	0.49
25:R:276:LEU:O	25:R:280:ILE:HG23	2.12	0.49
25:R:402:LEU:HD22	25:R:405:LYS:HZ1	1.76	0.49
26:S:30:GLN:O	26:S:34:LEU:N	2.23	0.49
26:S:277:SER:OG	26:S:292:TYR:HB2	2.12	0.49
27:T:144:TYR:HE2	27:T:169:GLN:HB3	1.78	0.49
28:U:163:ALA:HA	28:U:164:GLU:HB2	1.94	0.49
33:Z:291:GLU:O	33:Z:294:ILE:N	2.44	0.49
33:Z:453:LEU:HD13	33:Z:491:LEU:HB3	1.94	0.49
33:Z:926:ASN:HB2	33:Z:993:GLU:CD	2.37	0.49
8:a:73:PHE:HE2	8:a:90:ALA:HB1	1.77	0.49
8:a:133:TYR:HD2	14:g:126:TYR:HE2	1.60	0.49
10:c:137:TYR:CE2	10:c:151:SER:HB3	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:47:VAL:HG11	12:e:197:GLU:HA	1.94	0.49
12:e:70:ILE:HA	12:e:93:ARG:HG2	1.94	0.49
13:f:20:PHE:HA	13:f:23:GLU:HB2	1.94	0.49
13:f:174:ARG:O	13:f:174:ARG:NH1	2.42	0.49
4:i:58:LYS:NZ	5:j:151:GLU:OE2	2.45	0.49
7:l:130:TRP:HA	7:l:133:TRP:HB3	1.94	0.49
2:2:109:TYR:CD2	14:g:93:ARG:HD3	2.48	0.49
3:3:152:PHE:HA	3:h:151:THR:O	2.12	0.49
4:4:245:SER:OG	5:5:197:LYS:HB3	2.11	0.49
5:5:38:ASN:ND2	7:l:285:VAL:HA	2.26	0.49
6:6:146:HIS:ND1	7:l:279:GLU:OE2	2.45	0.49
7:7:83:PHE:CE1	7:7:88:ILE:HG12	2.47	0.49
1:8:24:TYR:OH	1:8:123:PRO:O	2.23	0.49
1:8:169:LEU:O	1:8:172:GLN:N	2.46	0.49
2:9:122:PRO:HB3	2:9:151:GLY:HA3	1.94	0.49
2:9:126:PHE:CZ	2:9:161:ARG:HG2	2.47	0.49
2:9:186:PRO:HA	2:9:189:ARG:HB2	1.94	0.49
12:E:70:ILE:HA	12:E:93:ARG:HG2	1.94	0.49
15:H:258:LEU:HA	15:H:261:ARG:HB2	1.95	0.49
15:H:270:THR:HB	15:H:304:CYS:HB3	1.93	0.49
15:H:386:ALA:O	15:H:390:ARG:N	2.26	0.49
15:H:418:GLU:HA	16:I:369:GLY:HA3	1.94	0.49
17:J:114:CYS:HB2	17:J:124:LYS:HG2	1.94	0.49
17:J:230:VAL:HG12	17:J:275:LEU:HD21	1.93	0.49
17:J:338:THR:OG1	17:J:376:HIS:HB3	2.12	0.49
19:L:224:PRO:CA	19:L:228:LYS:HD3	2.39	0.49
19:L:254:LYS:HG2	20:M:255:TYR:CD1	2.47	0.49
19:L:357:ARG:NH2	19:L:384:ASP:OD1	2.45	0.49
20:M:157:ASP:OD1	20:M:158:THR:N	2.45	0.49
21:N:43:LEU:HA	21:N:46:ILE:HB	1.94	0.49
21:N:535:LEU:HA	21:N:538:LYS:HB2	1.95	0.49
21:N:581:ASP:HB3	21:N:616:HIS:CG	2.47	0.49
21:N:763:GLY:HA3	21:N:907:ASP:H	1.77	0.49
21:N:880:ARG:HA	21:N:896:PHE:CE2	2.45	0.49
21:N:919:THR:HG22	21:N:922:GLN:HG2	1.94	0.49
22:O:179:PHE:CB	22:O:188:PHE:HB2	2.42	0.49
23:P:267:PHE:HA	23:P:270:LEU:HD12	1.93	0.49
23:P:287:ASP:HB3	23:P:294:GLU:HG2	1.94	0.49
24:Q:131:VAL:HA	24:Q:134:LYS:CE	2.43	0.49
24:Q:240:PHE:HD1	24:Q:265:MET:HE3	1.78	0.49
24:Q:309:ARG:O	24:Q:349:LYS:CB	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:354:PHE:O	24:Q:356:CYS:N	2.36	0.49
24:Q:394:ASN:HB3	24:Q:396:TRP:CD1	2.47	0.49
25:R:70:TYR:OH	25:R:74:ASN:HB2	2.13	0.49
25:R:292:LEU:HB3	25:R:307:TYR:CG	2.47	0.49
26:S:228:GLU:HA	26:S:264:VAL:HG22	1.95	0.49
26:S:357:LEU:CD1	26:S:384:ARG:HH11	2.26	0.49
26:S:404:LEU:HG	26:S:408:CYS:SG	2.53	0.49
27:T:62:LEU:HD22	27:T:84:GLN:HB2	1.94	0.49
27:T:201:PRO:HA	27:T:232:LYS:HG2	1.95	0.49
28:U:22:TYR:CD1	28:U:27:THR:HB	2.48	0.49
28:U:162:GLU:O	28:U:164:GLU:HB2	2.12	0.49
28:U:206:ASP:HA	28:U:209:GLU:OE1	2.12	0.49
30:W:24:THR:O	30:W:28:ALA:N	2.28	0.49
30:W:114:VAL:HG13	30:W:118:ILE:HD11	1.94	0.49
31:X:35:ILE:HD12	31:X:48:PHE:CD1	2.48	0.49
33:Z:358:TYR:OH	33:Z:914:LEU:N	2.44	0.49
11:d:38:GLY:N	11:d:41:CYS:O	2.46	0.49
11:d:80:ALA:HA	11:d:83:ARG:CZ	2.42	0.49
14:g:218:TRP:NE1	14:g:230:PHE:O	2.43	0.49
5:j:20:CYS:HA	5:j:112:ILE:HD11	1.94	0.49
6:k:7:ILE:HD11	6:k:148:TYR:CE1	2.47	0.49
1:1:204:ARG:O	1:1:208:THR:HG23	2.12	0.49
2:2:44:VAL:N	2:2:177:THR:HG1	2.05	0.49
3:3:51:ASP:OD1	3:3:53:LEU:N	2.38	0.49
4:4:36:LYS:HD2	4:4:152:TYR:CD2	2.47	0.49
5:5:183:TRP:HA	5:5:204:GLN:OE1	2.11	0.49
7:7:125:ALA:HA	7:7:128:GLN:HB3	1.92	0.49
1:8:56:SER:OG	1:8:58:TYR:O	2.27	0.49
1:8:86:ARG:O	1:8:89:ASN:HB3	2.13	0.49
2:9:44:VAL:N	2:9:177:THR:HG1	2.05	0.49
8:A:197:GLU:OE1	8:A:197:GLU:N	2.40	0.49
9:B:92:VAL:HA	9:B:95:THR:HG1	1.76	0.49
11:D:71:VAL:HG22	11:D:106:VAL:HG22	1.94	0.49
13:F:20:PHE:HA	13:F:23:GLU:HB2	1.94	0.49
13:F:148:GLN:N	13:F:152:ASN:O	2.45	0.49
14:G:67:ILE:HG21	14:G:217:SER:OG	2.11	0.49
15:H:157:VAL:HG13	20:M:75:LEU:HB3	1.94	0.49
15:H:159:LEU:N	20:M:163:PHE:HE2	2.11	0.49
15:H:415:THR:OG1	15:H:418:GLU:N	2.22	0.49
16:I:132:SER:HB3	16:I:178:HIS:ND1	2.26	0.49
16:I:145:ALA:N	16:I:157:VAL:O	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:74:HIS:O	18:K:78:GLU:HG2	2.12	0.49
18:K:346:ARG:HB3	18:K:372:ILE:HG13	1.94	0.49
18:K:396:ARG:NH2	19:L:192:GLU:HG3	2.27	0.49
19:L:70:TYR:HD1	20:M:12:LEU:HD11	1.77	0.49
19:L:220:LEU:HD13	19:L:228:LYS:HG3	1.93	0.49
20:M:353:SER:O	20:M:357:ARG:N	2.43	0.49
21:N:441:VAL:O	21:N:444:HIS:N	2.46	0.49
21:N:595:LEU:HD13	21:N:605:ILE:HD13	1.94	0.49
23:P:184:MET:HE3	23:P:200:SER:HB3	1.95	0.49
23:P:305:THR:CB	23:P:310:ARG:HH22	2.25	0.49
23:P:436:GLU:HA	23:P:439:MET:HE3	1.95	0.49
24:Q:162:LEU:O	24:Q:165:PHE:N	2.45	0.49
25:R:292:LEU:HB3	25:R:307:TYR:CD2	2.48	0.49
25:R:366:ASN:O	25:R:370:LYS:HG3	2.13	0.49
27:T:74:ASN:ND2	27:T:77:SER:OG	2.46	0.49
27:T:177:PHE:HA	27:T:180:ILE:HD12	1.94	0.49
28:U:66:TRP:HE1	28:U:105:LYS:HE2	1.78	0.49
28:U:77:ASN:HA	28:U:80:CYS:HB2	1.95	0.49
33:Z:291:GLU:CB	33:Z:294:ILE:HD12	2.35	0.49
33:Z:759:ARG:CG	33:Z:759:ARG:NH1	2.73	0.49
8:a:65:ASP:HB3	14:g:159:GLY:HA3	1.95	0.49
8:a:133:TYR:CZ	8:a:134:MET:HG2	2.46	0.49
8:a:176:GLN:O	8:a:179:THR:HB	2.11	0.49
10:c:240:VAL:HA	10:c:245:THR:HA	1.94	0.49
13:f:179:PHE:O	13:f:182:ILE:N	2.45	0.49
14:g:24:VAL:O	14:g:28:VAL:HG23	2.11	0.49
3:h:77:ILE:O	3:h:80:TYR:HB3	2.12	0.49
4:i:139:LEU:HG	4:i:154:LEU:HD12	1.95	0.49
6:k:65:GLN:HA	6:k:68:SER:HB2	1.94	0.49
7:l:180:THR:N	7:l:184:GLY:O	2.43	0.49
1:1:23:PRO:O	2:2:137:ARG:HD2	2.12	0.49
1:1:86:ARG:O	1:1:89:ASN:HB3	2.13	0.49
2:2:81:ASN:O	2:2:151:GLY:HA2	2.12	0.49
4:4:48:ARG:NH1	4:4:198:SER:O	2.46	0.49
5:5:11:ILE:HG22	5:5:140:GLY:HA3	1.94	0.49
5:5:85:GLU:H	5:5:85:GLU:CD	2.18	0.49
1:8:204:ARG:O	1:8:208:THR:HG23	2.12	0.49
1:8:222:GLU:HG2	1:8:235:PHE:HD1	1.76	0.49
8:A:186:PHE:HA	8:A:189:SER:OG	2.12	0.49
9:B:95:THR:OG1	9:B:96:SER:N	2.44	0.49
10:C:95:ALA:HB2	10:C:111:LEU:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:69:HIS:CE1	13:F:70:MET:HE3	2.47	0.49
13:F:123:TYR:CB	14:G:128:SER:HB2	2.42	0.49
15:H:96:PRO:CD	15:H:97:LEU:H	2.24	0.49
15:H:337:ILE:HG23	15:H:367:ARG:NH2	2.27	0.49
17:J:76:ILE:N	17:J:85:LEU:O	2.45	0.49
17:J:130:ALA:CB	17:J:131:ASP:CB	2.85	0.49
18:K:51:LEU:HB3	18:K:55:GLU:HB2	1.94	0.49
18:K:243:VAL:O	19:L:257:GLY:CA	2.60	0.49
19:L:109:MET:HB3	19:L:118:ILE:HG22	1.95	0.49
19:L:249:SER:OG	20:M:303:ARG:HG2	2.13	0.49
19:L:351:LEU:HD22	19:L:386:PHE:O	2.12	0.49
19:L:401:PHE:CA	19:L:404:ARG:HB3	2.38	0.49
20:M:78:LEU:CD2	20:M:122:SER:HB2	2.42	0.49
20:M:305:MET:HE3	20:M:337:LEU:HD21	1.95	0.49
21:N:18:ASP:O	21:N:55:PHE:HE1	1.95	0.49
21:N:151:LYS:HE2	21:N:188:TYR:HB3	1.94	0.49
21:N:200:SER:CB	21:N:203:ARG:HH21	2.25	0.49
21:N:233:ASN:OD1	21:N:269:LEU:HD22	2.13	0.49
21:N:443:LEU:O	21:N:447:SER:N	2.29	0.49
21:N:535:LEU:O	21:N:539:MET:N	2.24	0.49
21:N:740:TRP:O	29:V:24:LYS:NZ	2.44	0.49
22:O:99:LEU:CD1	22:O:132:GLU:O	2.60	0.49
22:O:99:LEU:HD11	22:O:132:GLU:HB3	1.93	0.49
22:O:302:VAL:HG13	22:O:303:LYS:H	1.76	0.49
22:O:340:SER:HB2	23:P:356:TYR:C	2.37	0.49
22:O:356:ARG:NH1	22:O:357:ILE:N	2.60	0.49
22:O:356:ARG:HH12	22:O:357:ILE:HG13	1.78	0.49
23:P:163:LEU:HD22	23:P:179:PHE:HB2	1.94	0.49
23:P:204:LEU:HD13	23:P:220:TYR:CD2	2.47	0.49
23:P:228:SER:OG	23:P:240:TYR:HD2	1.95	0.49
23:P:417:HIS:O	23:P:421:GLU:N	2.33	0.49
24:Q:75:ARG:HA	24:Q:78:ILE:HD12	1.95	0.49
24:Q:230:LYS:HG3	24:Q:232:TYR:CE1	2.48	0.49
24:Q:314:PHE:HD2	24:Q:339:TYR:CD2	2.27	0.49
24:Q:405:GLN:OE1	25:R:395:ASN:HB3	2.12	0.49
24:Q:414:GLU:O	24:Q:418:GLN:HG2	2.13	0.49
25:R:267:LYS:CA	25:R:271:ILE:HB	2.40	0.49
26:S:152:LEU:CB	26:S:187:ILE:HG23	2.43	0.49
26:S:218:LEU:HD22	26:S:230:LYS:NZ	2.25	0.49
28:U:108:GLU:HA	28:U:111:LYS:HG3	1.95	0.49
28:U:173:HIS:HE1	29:V:151:VAL:HG23	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:270:ASN:OD1	28:U:273:LEU:HD12	2.12	0.49
31:X:24:CYS:HB3	31:X:86:ILE:HG12	1.94	0.49
31:X:83:SER:OG	31:X:84:GLY:N	2.39	0.49
33:Z:784:SER:C	33:Z:788:PRO:HG3	2.37	0.49
33:Z:863:THR:HG22	33:Z:910:PRO:O	2.11	0.49
8:a:88:PRO:O	8:a:92:ASN:N	2.35	0.49
9:b:33:THR:HG1	9:b:167:GLY:H	1.58	0.49
12:e:122:ARG:HA	12:e:132:ARG:NE	2.27	0.49
14:g:43:ASN:ND2	14:g:188:SER:HA	2.27	0.49
7:l:83:PHE:CE1	7:l:88:ILE:HG12	2.47	0.49
7:l:272:PHE:HZ	7:l:285:VAL:HG21	1.76	0.49
1:1:48:ASN:CG	1:1:55:ASN:HD22	2.19	0.49
1:1:144:PHE:CD1	1:1:150:TYR:HB3	2.48	0.49
2:2:155:ASN:ND2	2:2:157:ASP:OD2	2.39	0.49
3:3:77:ILE:O	3:3:80:TYR:HB3	2.12	0.49
4:4:242:LEU:HG	5:5:201:LYS:N	2.27	0.49
5:5:161:GLU:OE1	5:5:161:GLU:N	2.35	0.49
6:6:65:GLN:HB2	11:D:94:GLN:NE2	2.23	0.49
6:6:73:TYR:HB2	10:C:143:ARG:HH12	1.77	0.49
6:6:161:LEU:O	6:6:165:VAL:HG23	2.12	0.49
7:7:82:ARG:CG	7:7:185:PRO:HB2	2.41	0.49
7:7:130:TRP:HA	7:7:133:TRP:HB3	1.94	0.49
1:8:78:ALA:HB2	2:9:168:VAL:HA	1.93	0.49
1:8:214:HIS:CD2	1:8:217:VAL:HG23	2.36	0.49
8:A:18:ILE:HB	9:B:20:GLN:NE2	2.28	0.49
8:A:18:ILE:HB	9:B:20:GLN:CD	2.37	0.49
8:A:91:ARG:C	14:G:118:GLN:HE22	2.20	0.49
11:D:151:GLU:OE2	11:D:155:ILE:HB	2.12	0.49
15:H:98:GLN:HE21	15:H:193:PRO:CA	2.25	0.49
16:I:163:VAL:HB	16:I:186:VAL:HG13	1.95	0.49
17:J:111:GLN:HA	17:J:128:ASN:CG	2.37	0.49
18:K:49:PHE:CE1	21:N:151:LYS:HB2	2.47	0.49
19:L:244:ILE:HB	19:L:278:ILE:HD13	1.95	0.49
19:L:252:VAL:HA	19:L:258:GLU:OE2	2.12	0.49
19:L:360:ILE:HG22	19:L:391:ILE:HG21	1.95	0.49
19:L:402:ALA:HB1	19:L:407:ARG:HB2	1.94	0.49
21:N:366:THR:O	21:N:370:SER:N	2.46	0.49
21:N:784:TYR:CB	21:N:873:ARG:HE	2.26	0.49
22:O:12:SER:CA	22:O:13:THR:CB	2.90	0.49
24:Q:130:ARG:HG3	24:Q:132:PHE:HB3	1.94	0.49
24:Q:155:LEU:HG	24:Q:184:VAL:HG11	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:422:VAL:O	24:Q:425:GLN:HB3	2.13	0.49
25:R:273:SER:O	25:R:277:LEU:HG	2.13	0.49
26:S:52:TYR:O	26:S:56:SER:N	2.46	0.49
26:S:241:PHE:CD2	26:S:247:VAL:HA	2.47	0.49
26:S:299:LYS:O	26:S:300:ALA:HB3	2.13	0.49
26:S:393:ARG:HG3	26:S:397:LEU:HD12	1.94	0.49
27:T:62:LEU:HD13	27:T:85:LEU:N	2.27	0.49
27:T:66:ALA:HA	27:T:78:PHE:HA	1.93	0.49
27:T:167:GLY:O	27:T:171:ILE:N	2.28	0.49
28:U:124:ASP:HB3	28:U:133:PRO:CB	2.41	0.49
8:a:61:ASP:OD1	8:a:62:LYS:N	2.45	0.49
9:b:123:GLN:HB2	10:c:129:ARG:NH2	2.27	0.49
11:d:45:GLY:HA2	11:d:212:ILE:HD13	1.95	0.49
12:e:83:ALA:HA	12:e:86:ARG:HG2	1.95	0.49
5:j:75:LYS:HG3	5:j:80:ARG:C	2.37	0.49
1:1:161:ALA:O	1:1:164:LEU:N	2.46	0.49
2:2:226:ARG:HG2	2:2:246:GLN:CG	2.43	0.49
3:3:54:THR:HB	3:3:62:CYS:SG	2.52	0.49
5:5:78:GLU:HB3	5:5:80:ARG:HG2	1.93	0.49
1:8:26:ASP:OD1	1:8:27:ASN:N	2.45	0.49
1:8:141:VAL:HB	1:8:153:GLU:O	2.12	0.49
2:9:133:MET:HE1	2:9:143:LEU:HB2	1.95	0.49
11:D:6:ARG:O	11:D:125:GLY:N	2.37	0.49
12:E:20:ARG:HB3	12:E:25:GLU:OE2	2.13	0.49
12:E:147:HIS:HD2	12:E:153:TYR:CD2	2.31	0.49
13:F:136:GLY:HA2	13:F:216:VAL:HG11	1.95	0.49
14:G:67:ILE:HG12	14:G:77:VAL:HB	1.94	0.49
16:I:140:ILE:HG22	16:I:141:ASP:OD1	2.13	0.49
16:I:244:LYS:NZ	16:I:341:ASP:OD1	2.45	0.49
16:I:280:ILE:CA	16:I:281:GLN:CD	2.86	0.49
16:I:389:LEU:HB3	16:I:404:LEU:HD22	1.94	0.49
17:J:26:LYS:HE2	21:N:106:ILE:CG2	2.42	0.49
17:J:38:THR:O	17:J:42:ARG:HG3	2.13	0.49
17:J:43:ARG:HG3	26:S:480:ARG:HH21	1.78	0.49
19:L:226:THR:N	19:L:228:LYS:H	2.10	0.49
19:L:375:ASP:O	19:L:415:LEU:HD21	2.13	0.49
19:L:393:ASN:O	19:L:397:GLU:N	2.31	0.49
20:M:145:LEU:O	20:M:159:LEU:N	2.38	0.49
20:M:233:ARG:HH21	20:M:245:LYS:HD2	1.78	0.49
20:M:381:ARG:HE	13:f:166:GLN:HE22	1.60	0.49
21:N:474:SER:C	21:N:513:ILE:HD11	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:518:ALA:HA	21:N:521:LEU:HB2	1.94	0.49
21:N:600:THR:OG1	21:N:601:THR:N	2.46	0.49
22:O:140:LYS:CA	22:O:181:PHE:HE2	2.06	0.49
22:O:228:TYR:HA	22:O:229:ASN:HB2	1.94	0.49
23:P:110:LEU:HD23	23:P:113:ASN:ND2	2.21	0.49
23:P:395:ARG:HH22	24:Q:365:ILE:HA	1.76	0.49
24:Q:271:MET:O	24:Q:273:ASN:ND2	2.45	0.49
24:Q:382:LEU:HB2	24:Q:384:LYS:HA	1.95	0.49
25:R:67:CYS:SG	25:R:94:PHE:HE1	2.35	0.49
26:S:187:ILE:O	26:S:190:SER:OG	2.17	0.49
26:S:258:GLU:HA	26:S:272:TYR:CZ	2.48	0.49
26:S:267:SER:HA	26:S:300:ALA:HB1	1.95	0.49
26:S:472:HIS:H	28:U:288:PHE:HE1	1.60	0.49
28:U:77:ASN:O	28:U:81:LYS:N	2.29	0.49
29:V:27:VAL:HA	29:V:63:VAL:HB	1.94	0.49
30:W:4:GLU:HB2	30:W:107:HIS:C	2.38	0.49
31:X:35:ILE:HG21	31:X:129:LEU:HD23	1.93	0.49
33:Z:217:GLU:O	33:Z:218:GLU:CB	2.59	0.49
33:Z:527:SER:HB2	33:Z:569:ALA:HB2	1.95	0.49
33:Z:616:LEU:HA	33:Z:746:ILE:CD1	2.40	0.49
11:d:175:LEU:HD21	11:d:198:SER:HB3	1.95	0.49
4:i:48:ARG:NH1	4:i:198:SER:O	2.46	0.49
4:i:120:GLN:HB2	4:i:122:HIS:CD2	2.48	0.49
5:j:21:VAL:HG23	5:j:190:ILE:HB	1.93	0.49
7:l:181:ARG:HB2	7:l:257:GLU:OE2	2.13	0.49
7:l:243:ASP:HB3	7:l:246:SER:HB2	1.95	0.49
7:l:279:GLU:OE2	7:l:281:SER:HB3	2.13	0.49
1:1:26:ASP:OD1	1:1:27:ASN:N	2.45	0.49
1:1:143:SER:HB3	1:1:156:ARG:HG2	1.95	0.49
5:5:67:PHE:O	5:5:71:THR:HG23	2.13	0.49
7:7:272:PHE:HZ	7:7:285:VAL:HG21	1.76	0.49
1:8:40:ALA:N	1:8:226:VAL:O	2.38	0.49
1:8:213:ARG:HA	4:i:55:VAL:HB	1.94	0.49
1:8:220:GLY:HA2	1:8:237:GLU:HA	1.95	0.49
2:9:81:ASN:O	2:9:151:GLY:HA2	2.12	0.49
2:9:155:ASN:ND2	2:9:157:ASP:OD2	2.39	0.49
8:A:205:PHE:O	8:A:208:THR:HB	2.12	0.49
10:C:218:LYS:HA	10:C:225:VAL:HA	1.94	0.49
11:D:11:PHE:H	12:E:23:GLN:HE22	1.61	0.49
12:E:81:LEU:O	12:E:140:VAL:HB	2.13	0.49
13:F:34:VAL:C	13:F:62:LYS:HE2	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:255:GLY:H	15:H:377:PHE:HZ	1.58	0.49
16:I:445:GLN:HB3	16:I:449:ARG:NH1	2.26	0.49
17:J:167:PRO:HG3	17:J:174:PHE:CE2	2.41	0.49
17:J:213:VAL:O	17:J:248:ASP:N	2.46	0.49
18:K:85:GLU:OE1	18:K:88:ARG:NE	2.43	0.49
19:L:217:GLY:HA3	19:L:343:LEU:HD23	1.94	0.49
19:L:387:ASN:H	19:L:390:ASP:HB2	1.78	0.49
19:L:416:MET:HA	19:L:419:VAL:CG2	2.42	0.49
20:M:219:LEU:N	20:M:345:ARG:O	2.41	0.49
21:N:110:VAL:O	21:N:114:SER:N	2.35	0.49
21:N:238:ALA:O	21:N:241:LEU:HB3	2.13	0.49
21:N:371:LEU:O	21:N:374:ILE:N	2.46	0.49
22:O:72:LYS:HG3	22:O:73:ILE:N	2.23	0.49
23:P:179:PHE:HA	23:P:182:GLU:HB2	1.95	0.49
23:P:180:ILE:CG2	23:P:199:LEU:HB3	2.37	0.49
23:P:305:THR:C	23:P:310:ARG:HH22	2.20	0.49
24:Q:51:ARG:HA	24:Q:54:GLN:HB2	1.94	0.49
24:Q:293:SER:HB2	24:Q:324:GLU:CD	2.37	0.49
25:R:77:SER:CB	25:R:90:GLU:HA	2.39	0.49
25:R:171:MET:SD	25:R:206:ARG:HB3	2.52	0.49
25:R:272:ASP:HA	25:R:276:LEU:HD12	1.94	0.49
26:S:163:VAL:HA	26:S:167:LEU:HD23	1.95	0.49
28:U:37:ILE:HG13	28:U:90:ILE:HG13	1.95	0.49
28:U:305:ARG:O	28:U:307:LYS:N	2.46	0.49
31:X:108:ASN:HA	31:X:116:ALA:HA	1.95	0.49
33:Z:738:TYR:O	33:Z:741:LEU:HB3	2.13	0.49
33:Z:752:ILE:C	33:Z:754:LYS:CB	2.86	0.49
33:Z:762:GLY:CA	33:Z:789:GLN:NE2	2.76	0.49
33:Z:843:ASP:HA	33:Z:846:PHE:HB3	1.95	0.49
33:Z:910:PRO:O	33:Z:912:PHE:HD2	1.95	0.49
8:a:44:ALA:N	8:a:169:THR:O	2.33	0.49
10:c:95:ALA:HB2	10:c:111:LEU:HD12	1.95	0.49
11:d:9:SER:HB2	11:d:121:THR:O	2.12	0.49
12:e:176:SER:OG	12:e:177:GLU:OE1	2.29	0.49
13:f:15:PRO:HA	14:g:26:TYR:CE1	2.48	0.49
5:j:161:GLU:H	5:j:161:GLU:CD	2.20	0.49
7:l:112:ILE:HD12	7:l:116:LEU:HB3	1.95	0.49
2:2:135:GLN:HA	2:2:138:SER:HB2	1.95	0.49
4:4:120:GLN:HB2	4:4:122:HIS:CD2	2.48	0.49
5:5:203:ARG:NH2	7:l:268:VAL:HB	2.28	0.49
7:7:190:VAL:HA	7:7:195:THR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:207:GLY:HA3	7:7:239:ALA:HB1	1.94	0.49
8:A:232:LYS:HE2	8:A:234:PHE:HB3	1.95	0.49
10:C:60:ASP:OD1	10:C:232:PRO:HG2	2.13	0.49
10:C:191:GLU:O	10:C:195:LYS:HG2	2.13	0.49
12:E:35:SER:OG	12:E:66:LYS:NZ	2.45	0.49
12:E:123:PHE:HB3	12:E:134:MET:HE3	1.94	0.49
13:F:6:TYR:OH	14:G:9:ASP:OD2	2.29	0.49
14:G:201:TYR:CD1	14:G:212:PHE:HZ	2.31	0.49
15:H:72:SER:CB	15:H:172:MET:HG2	2.32	0.49
15:H:430:ALA:O	15:H:435:ARG:N	2.45	0.49
16:I:202:LYS:HG3	16:I:269:ALA:C	2.38	0.49
16:I:239:GLY:CA	16:I:242:PRO:CD	2.91	0.49
16:I:282:LYS:HB2	17:J:221:LYS:CA	2.33	0.49
16:I:347:GLY:HA2	16:I:350:LYS:HE2	1.94	0.49
18:K:258:PHE:CE1	18:K:306:PHE:HD2	2.31	0.49
18:K:342:SER:C	18:K:344:ARG:H	2.21	0.49
18:K:389:GLU:O	18:K:392:LEU:HB2	2.12	0.49
19:L:82:ARG:HA	19:L:85:GLU:CB	2.39	0.49
19:L:252:VAL:CG2	19:L:303:ARG:NH2	2.76	0.49
19:L:274:GLU:HA	19:L:275:PRO:C	2.36	0.49
21:N:381:GLU:HA	21:N:384:LYS:HE2	1.95	0.49
21:N:518:ALA:HA	21:N:521:LEU:HD12	1.95	0.49
21:N:889:ARG:HG3	21:N:913:PRO:O	2.11	0.49
22:O:190:TYR:O	22:O:194:LEU:N	2.30	0.49
23:P:76:ASN:HB2	23:P:118:VAL:HG22	1.95	0.49
23:P:128:ASN:OD1	23:P:136:ARG:NH1	2.46	0.49
23:P:202:LYS:HE2	23:P:206:LYS:HZ1	1.78	0.49
23:P:220:TYR:O	23:P:224:LEU:N	2.26	0.49
23:P:242:GLN:O	23:P:246:GLN:HG3	2.13	0.49
23:P:303:PHE:HB3	23:P:348:HIS:CE1	2.48	0.49
24:Q:149:LYS:HG2	24:Q:151:TYR:OH	2.13	0.49
25:R:313:ALA:HA	25:R:317:ILE:HD12	1.95	0.49
25:R:371:PHE:O	25:R:377:LEU:HD12	1.98	0.49
25:R:400:TYR:CD2	26:S:457:PRO:HB2	2.48	0.49
26:S:182:LYS:O	26:S:185:PHE:N	2.46	0.49
26:S:293:ILE:HG21	26:S:317:HIS:HB2	1.95	0.49
26:S:401:LYS:HA	26:S:444:GLU:HA	1.95	0.49
27:T:123:HIS:O	27:T:126:LEU:HB3	2.13	0.49
28:U:24:ARG:NH1	29:V:99:GLY:O	2.45	0.49
29:V:127:LYS:HA	29:V:130:GLU:OE2	2.13	0.49
30:W:39:ALA:HA	30:W:42:ASN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:53:SER:OG	30:W:60:ARG:N	2.46	0.49
33:Z:305:VAL:HG12	33:Z:973:TYR:CZ	2.48	0.49
33:Z:330:ILE:HG12	33:Z:339:PHE:CD1	2.48	0.49
33:Z:437:ASP:HA	33:Z:440:LEU:CB	2.42	0.49
33:Z:793:PHE:HB3	33:Z:830:LEU:N	2.28	0.49
33:Z:985:LYS:CB	33:Z:991:GLU:HG2	2.43	0.49
8:a:70:SER:OG	8:a:224:GLU:OE2	2.17	0.49
9:b:39:ALA:N	9:b:42:GLY:O	2.45	0.49
9:b:190:HIS:HA	9:b:193:LEU:HD12	1.93	0.49
10:c:214:ALA:HB2	10:c:229:ILE:HG12	1.95	0.49
10:c:238:ILE:HD12	10:c:241:LYS:HB2	1.95	0.49
13:f:54:ASP:N	13:f:57:SER:OG	2.34	0.49
4:i:30:THR:N	4:i:158:SER:OG	2.44	0.49
5:j:67:PHE:O	5:j:71:THR:HG23	2.13	0.49
6:k:36:ARG:HG2	6:k:46:PHE:CE2	2.48	0.49
7:l:190:VAL:HA	7:l:195:THR:O	2.13	0.49
1:1:130:ILE:HG12	1:1:142:TYR:HB2	1.95	0.48
3:3:27:PHE:HE1	3:3:32:ILE:HG13	1.77	0.48
5:5:23:ILE:HG22	5:5:188:TYR:HB2	1.94	0.48
6:6:88:LEU:HA	6:6:91:SER:OG	2.13	0.48
7:7:279:GLU:OE2	7:7:281:SER:HB3	2.13	0.48
1:8:144:PHE:CD1	1:8:150:TYR:HB3	2.48	0.48
2:9:89:ASP:OD1	2:9:90:ILE:N	2.46	0.48
8:A:31:ALA:HB1	8:A:138:GLY:HA2	1.93	0.48
8:A:47:GLY:N	8:A:50:CYS:O	2.46	0.48
9:B:115:ALA:HB1	9:B:154:GLY:O	2.12	0.48
9:B:184:GLU:OE1	9:B:186:GLU:N	2.44	0.48
11:D:45:GLY:HA2	11:D:212:ILE:HD13	1.95	0.48
11:D:70:HIS:CD2	11:D:71:VAL:HG23	2.48	0.48
13:F:14:SER:OG	13:F:18:ARG:N	2.46	0.48
13:F:155:GLU:H	14:G:64:ASN:ND2	2.11	0.48
17:J:109:ALA:O	17:J:110:SER:OG	2.27	0.48
18:K:343:LEU:N	18:K:343:LEU:CD1	2.73	0.48
19:L:147:THR:N	19:L:157:ARG:O	2.43	0.48
19:L:199:LEU:N	19:L:200:PRO:HD2	2.28	0.48
20:M:129:LEU:HD13	20:M:132:VAL:HG13	1.94	0.48
20:M:246:LEU:HD21	20:M:251:LEU:HD11	1.95	0.48
21:N:85:ALA:HB1	21:N:88:ARG:HB2	1.95	0.48
21:N:581:ASP:HB3	21:N:616:HIS:CB	2.42	0.48
21:N:646:LYS:C	21:N:653:ARG:HH21	2.22	0.48
22:O:188:PHE:HA	22:O:191:THR:HB	1.93	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:55:SER:OG	23:P:57:GLU:HB3	2.13	0.48
23:P:292:LYS:CA	23:P:293:LEU:HB3	2.43	0.48
23:P:329:PHE:CD2	23:P:337:HIS:CD2	3.01	0.48
23:P:336:HIS:HA	23:P:340:ASP:OD2	2.13	0.48
24:Q:129:LYS:CD	9:b:184:GLU:HB3	2.43	0.48
24:Q:167:LYS:CE	9:b:177:LYS:HB3	2.43	0.48
24:Q:305:ALA:HA	24:Q:308:ASN:HB2	1.95	0.48
26:S:235:ASN:HB3	26:S:275:TYR:HE2	1.78	0.48
26:S:288:THR:HA	26:S:291:GLU:OE1	2.13	0.48
26:S:461:PHE:CD1	26:S:464:ARG:HD3	2.39	0.48
27:T:151:TRP:HE3	27:T:156:SER:O	1.96	0.48
27:T:250:MET:CA	27:T:251:HIS:C	2.85	0.48
29:V:118:LEU:HD21	29:V:140:VAL:CG2	2.42	0.48
29:V:292:ILE:O	29:V:295:VAL:HG23	2.13	0.48
30:W:98:LEU:HD11	30:W:110:ILE:HG13	1.95	0.48
33:Z:361:HIS:CE1	33:Z:961:GLU:OE1	2.66	0.48
33:Z:889:VAL:O	33:Z:892:SER:N	2.45	0.48
8:a:20:SER:HB3	8:a:26:TYR:HE2	1.78	0.48
11:d:36:VAL:HG23	11:d:191:CYS:SG	2.53	0.48
13:f:148:GLN:N	13:f:152:ASN:O	2.45	0.48
5:j:9:GLY:HA3	5:j:180:LEU:HB3	1.94	0.48
6:k:158:LEU:HD23	6:k:161:LEU:HD12	1.95	0.48
7:l:114:PRO:O	7:l:259:GLY:HA3	2.13	0.48
1:1:221:LEU:O	1:1:236:TYR:N	2.33	0.48
1:1:240:ARG:HH21	2:2:193:ASP:CG	2.21	0.48
2:2:89:ASP:OD1	2:2:90:ILE:N	2.46	0.48
5:5:183:TRP:NE1	7:l:241:HIS:CE1	2.80	0.48
2:9:127:GLU:HG2	13:F:100:ASN:N	2.27	0.48
9:B:98:LYS:HA	9:B:103:GLU:H	1.78	0.48
10:C:157:TYR:HE1	11:D:83:ARG:HD3	1.77	0.48
10:C:214:ALA:HB2	10:C:229:ILE:HG12	1.95	0.48
11:D:96:HIS:NE2	11:D:100:LEU:HD22	2.28	0.48
11:D:206:GLY:HA3	11:D:209:ASN:ND2	2.23	0.48
12:E:20:ARG:HE	13:F:31:GLN:NE2	2.11	0.48
14:G:46:VAL:HG13	14:G:146:ALA:HB1	1.95	0.48
15:H:104:LYS:H	15:H:144:LYS:CE	2.25	0.48
16:I:244:LYS:HE2	16:I:370:ARG:HB3	1.94	0.48
18:K:238:ASN:CB	18:K:241:GLU:CG	2.65	0.48
18:K:261:ALA:O	18:K:265:ALA:N	2.46	0.48
18:K:291:GLU:OE1	18:K:291:GLU:N	2.38	0.48
19:L:105:ILE:HD11	20:M:128:PHE:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:165:PRO:CB	19:L:168:TYR:HB2	2.43	0.48
19:L:236:ALA:CB	19:L:243:PHE:HB2	2.44	0.48
20:M:72:ASN:CA	20:M:73:ARG:HG3	2.43	0.48
20:M:296:SER:HA	20:M:299:ARG:HB3	1.94	0.48
20:M:305:MET:O	20:M:309:LEU:N	2.30	0.48
20:M:354:GLU:CD	20:M:381:ARG:HA	2.37	0.48
21:N:444:HIS:CD2	21:N:448:LEU:HD11	2.48	0.48
21:N:486:GLY:HA3	21:N:523:LEU:HD12	1.96	0.48
22:O:58:ARG:CB	22:O:61:LEU:HB2	2.43	0.48
22:O:203:THR:O	22:O:205:ILE:HG23	2.13	0.48
22:O:330:ARG:HB2	22:O:333:SER:HB2	1.94	0.48
23:P:136:ARG:O	23:P:140:THR:OG1	2.31	0.48
23:P:303:PHE:HB3	23:P:348:HIS:NE2	2.28	0.48
24:Q:34:ASP:O	24:Q:50:ARG:HG2	2.13	0.48
24:Q:133:LEU:O	24:Q:136:SER:HB2	2.13	0.48
24:Q:135:HIS:HB3	24:Q:161:LEU:HD22	1.95	0.48
25:R:128:LEU:HD21	25:R:162:ILE:H	1.78	0.48
25:R:307:TYR:HD1	25:R:310:GLU:OE1	1.96	0.48
26:S:13:SER:HA	26:S:16:ASN:ND2	2.28	0.48
26:S:430:GLY:C	26:S:432:ILE:N	2.70	0.48
26:S:479:MET:HA	28:U:295:LYS:HZ2	1.78	0.48
26:S:482:PRO:O	26:S:486:LYS:HG3	2.13	0.48
29:V:71:MET:HE1	29:V:87:PHE:CD2	2.48	0.48
30:W:5:ALA:N	30:W:107:HIS:O	2.45	0.48
33:Z:121:ILE:HA	33:Z:124:MET:HB3	1.94	0.48
33:Z:506:LEU:CD1	33:Z:510:LEU:HB2	2.44	0.48
33:Z:593:HIS:N	33:Z:596:THR:HG21	2.28	0.48
33:Z:789:GLN:HG2	33:Z:792:VAL:CG2	2.43	0.48
8:a:13:ASP:OD1	8:a:14:ARG:N	2.46	0.48
10:c:172:ALA:O	10:c:176:LEU:HG	2.13	0.48
13:f:14:SER:OG	13:f:18:ARG:N	2.46	0.48
14:g:111:ALA:HA	3:h:89:TYR:CE1	2.48	0.48
14:g:170:GLN:OE1	14:g:170:GLN:N	2.29	0.48
4:i:36:LYS:HD2	4:i:152:TYR:CD1	2.47	0.48
5:j:66:MET:O	5:j:69:TYR:HB3	2.13	0.48
5:j:78:GLU:OE1	5:j:80:ARG:NH2	2.46	0.48
7:l:221:TRP:HD1	7:l:222:ASP:OD1	1.96	0.48
2:2:124:TYR:HA	13:f:99:PHE:O	2.13	0.48
2:2:252:TRP:HB3	3:3:191:VAL:HG11	1.95	0.48
4:4:101:ARG:NH1	8:A:115:ASP:OD2	2.44	0.48
6:6:158:LEU:HD23	6:6:161:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:275:VAL:O	7:7:279:GLU:N	2.45	0.48
1:8:179:TYR:HA	1:8:188:LYS:HA	1.95	0.48
8:A:154:ILE:O	8:A:165:GLY:HA2	2.14	0.48
9:B:205:ASN:O	9:B:209:ILE:HG12	2.13	0.48
10:C:59:GLN:CD	10:C:209:ASP:HA	2.38	0.48
12:E:156:PHE:HA	12:E:165:TYR:O	2.13	0.48
12:E:194:LYS:O	12:E:197:GLU:HB2	2.13	0.48
13:F:75:ALA:C	13:F:130:VAL:HG23	2.38	0.48
13:F:174:ARG:O	13:F:174:ARG:NH1	2.42	0.48
14:G:170:GLN:OE1	14:G:170:GLN:N	2.29	0.48
15:H:150:LYS:HZ2	15:H:152:ILE:HB	1.78	0.48
15:H:175:GLY:HA2	15:H:186:PRO:HG3	1.96	0.48
16:I:133:ILE:HB	17:J:93:LYS:O	2.12	0.48
16:I:204:PRO:HB2	16:I:261:LYS:HD3	1.95	0.48
16:I:204:PRO:HD2	16:I:264:ALA:C	2.38	0.48
16:I:215:GLU:O	16:I:218:ILE:N	2.45	0.48
16:I:244:LYS:HG3	16:I:371:ILE:HG13	1.95	0.48
17:J:199:ALA:HB1	17:J:210:PHE:CE1	2.48	0.48
17:J:316:PHE:CG	17:J:317:PRO:N	2.81	0.48
17:J:334:LYS:HA	25:R:203:ASP:CG	2.38	0.48
18:K:130:LEU:O	18:K:132:LYS:HG3	2.12	0.48
18:K:285:GLN:HB3	18:K:289:ASP:OD2	2.13	0.48
19:L:252:VAL:O	20:M:256:ILE:HB	2.13	0.48
19:L:291:PHE:HE1	20:M:290:ARG:NH2	2.10	0.48
20:M:147:GLY:N	20:M:159:LEU:HG	2.29	0.48
20:M:356:SER:O	20:M:359:GLN:HB3	2.12	0.48
21:N:61:ALA:O	21:N:65:ALA:N	2.28	0.48
21:N:144:CYS:HB3	21:N:153:ALA:HB2	1.94	0.48
21:N:167:GLU:HG3	21:N:213:PHE:HZ	1.74	0.48
21:N:297:ASP:HB3	21:N:921:ARG:HB2	1.94	0.48
21:N:310:ASP:HB3	21:N:711:ARG:HH22	1.78	0.48
21:N:406:TYR:CZ	21:N:410:LEU:HD21	2.48	0.48
22:O:84:ALA:O	22:O:87:LYS:HB3	2.13	0.48
23:P:114:THR:O	23:P:117:SER:HB2	2.14	0.48
23:P:163:LEU:HD12	23:P:167:THR:OG1	2.13	0.48
23:P:228:SER:HA	23:P:231:LYS:HB3	1.95	0.48
24:Q:162:LEU:O	24:Q:166:LYS:HG3	2.12	0.48
24:Q:275:ILE:HG22	24:Q:279:LYS:HG3	1.94	0.48
24:Q:392:GLN:HB2	25:R:352:SER:CB	2.42	0.48
25:R:174:ILE:HB	25:R:187:VAL:HG13	1.95	0.48
25:R:235:LEU:HD12	25:R:275:GLU:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:259:PHE:CE1	25:R:333:MET:HE2	2.47	0.48
25:R:295:SER:OG	25:R:307:TYR:HE2	1.96	0.48
25:R:415:GLN:HB2	26:S:298:ARG:NH1	2.28	0.48
26:S:452:TYR:C	26:S:454:SER:H	2.21	0.48
27:T:50:ILE:HG13	27:T:51:TYR:N	2.27	0.48
30:W:38:GLN:HE21	30:W:42:ASN:CG	2.21	0.48
33:Z:233:LEU:HD21	33:Z:253:VAL:HG22	1.95	0.48
33:Z:290:GLU:OE1	33:Z:293:MET:HE2	2.13	0.48
33:Z:751:ASP:C	33:Z:753:GLY:H	2.20	0.48
33:Z:902:TYR:HB3	33:Z:905:ASN:ND2	2.28	0.48
8:a:62:LYS:NZ	14:g:177:GLU:O	2.39	0.48
8:a:91:ARG:NH1	14:g:157:TYR:O	2.46	0.48
9:b:205:ASN:O	9:b:209:ILE:HG12	2.13	0.48
12:e:20:ARG:HB3	12:e:25:GLU:OE2	2.13	0.48
12:e:22:PHE:O	12:e:26:TYR:N	2.32	0.48
12:e:81:LEU:O	12:e:140:VAL:HB	2.12	0.48
12:e:147:HIS:HD2	12:e:153:TYR:CD2	2.31	0.48
13:f:48:ALA:O	13:f:212:SER:N	2.37	0.48
14:g:222:SER:OG	14:g:223:GLU:N	2.46	0.48
3:h:86:THR:HA	3:h:90:GLY:O	2.14	0.48
3:h:191:VAL:HG21	3:h:206:ILE:HD11	1.93	0.48
4:i:79:ALA:HB2	5:j:129:CYS:HB2	1.95	0.48
6:k:56:PHE:HZ	6:k:84:VAL:HG13	1.78	0.48
1:1:23:PRO:HB3	2:2:140:MET:SD	2.53	0.48
1:1:169:LEU:O	1:1:172:GLN:N	2.46	0.48
2:2:37:PRO:HB3	2:2:144:TRP:CD1	2.49	0.48
3:3:18:LEU:O	3:3:20:THR:N	2.47	0.48
6:6:39:SER:OG	6:6:74:GLU:OE2	2.24	0.48
7:7:112:ILE:HD12	7:7:116:LEU:HB3	1.94	0.48
1:8:108:ALA:O	1:8:112:ILE:N	2.30	0.48
1:8:218:GLY:C	1:8:220:GLY:H	2.22	0.48
9:B:220:ASP:OD1	9:B:221:LEU:N	2.43	0.48
11:D:138:PHE:HD2	11:D:217:PRO:CA	2.27	0.48
13:F:208:VAL:HA	13:F:234:ILE:HD11	1.95	0.48
14:G:217:SER:HA	14:G:230:PHE:HA	1.95	0.48
15:H:101:ARG:H	15:H:173:ARG:CD	2.26	0.48
15:H:421:SER:N	16:I:369:GLY:HA2	2.28	0.48
16:I:255:GLY:HA3	16:I:377:PHE:HB2	1.96	0.48
17:J:78:ILE:HD12	17:J:104:VAL:HB	1.96	0.48
17:J:150:VAL:HG22	17:J:197:LEU:HD22	1.95	0.48
17:J:225:GLU:CD	17:J:228:ARG:HH21	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:251:ASP:HA	17:J:294:THR:HB	1.95	0.48
17:J:302:PRO:O	17:J:305:LEU:N	2.42	0.48
18:K:184:ILE:O	18:K:188:VAL:N	2.37	0.48
18:K:346:ARG:HE	18:K:376:ASP:HB2	1.78	0.48
20:M:166:ARG:HE	20:M:168:LYS:HZ1	1.60	0.48
20:M:364:HIS:ND1	20:M:392:LYS:HB2	2.29	0.48
20:M:377:GLN:HG3	20:M:378:GLU:N	2.29	0.48
21:N:33:ASP:O	21:N:36:TRP:CD1	2.67	0.48
21:N:98:VAL:HA	21:N:101:ILE:HG12	1.94	0.48
21:N:493:GLY:HA3	21:N:524:ILE:HB	1.95	0.48
23:P:96:MET:O	23:P:100:VAL:HG23	2.12	0.48
23:P:180:ILE:O	23:P:184:MET:HG3	2.14	0.48
23:P:220:TYR:HE2	23:P:224:LEU:HD22	1.78	0.48
24:Q:195:LYS:HA	24:Q:225:LEU:HD11	1.94	0.48
25:R:61:PRO:O	25:R:64:LYS:HB3	2.14	0.48
25:R:236:ALA:H	25:R:275:GLU:CD	2.21	0.48
25:R:301:TYR:HE2	25:R:359:VAL:CG1	2.26	0.48
26:S:259:TYR:CD2	26:S:272:TYR:HB2	2.49	0.48
26:S:280:ASN:HB3	26:S:285:ASP:HB3	1.93	0.48
26:S:469:ASN:HA	26:S:472:HIS:HB3	1.94	0.48
27:T:89:TYR:CE1	27:T:102:LYS:HB3	2.48	0.48
27:T:102:LYS:O	27:T:106:ILE:HG22	2.13	0.48
28:U:191:THR:O	28:U:194:LEU:N	2.40	0.48
29:V:251:TYR:O	29:V:255:ILE:N	2.34	0.48
30:W:65:PHE:CZ	30:W:97:THR:HG22	2.49	0.48
33:Z:103:TYR:OH	33:Z:136:ARG:O	2.31	0.48
33:Z:389:PHE:HE2	33:Z:850:LEU:HA	1.79	0.48
33:Z:412:GLY:O	33:Z:446:GLU:HB3	2.13	0.48
33:Z:924:LYS:HZ2	33:Z:926:ASN:HD21	1.61	0.48
8:a:47:GLY:N	8:a:50:CYS:O	2.46	0.48
3:h:52:LYS:HA	3:h:64:ARG:NH2	2.28	0.48
6:k:47:ALA:O	6:k:101:ASN:N	2.43	0.48
6:6:36:ARG:HG2	6:6:46:PHE:CE2	2.48	0.48
6:6:56:PHE:HZ	6:6:84:VAL:HG13	1.78	0.48
7:7:221:TRP:HD1	7:7:222:ASP:OD1	1.96	0.48
7:7:243:ASP:HB3	7:7:246:SER:HB2	1.95	0.48
7:7:268:VAL:HB	5:j:203:ARG:NH2	2.29	0.48
1:8:161:ALA:O	1:8:164:LEU:N	2.46	0.48
2:9:135:GLN:HA	2:9:138:SER:HB2	1.95	0.48
11:D:18:PHE:HA	11:D:21:GLU:HB2	1.95	0.48
13:F:187:ASP:O	13:F:190:ILE:HB	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:12:ASN:OD1	14:G:21:ASN:ND2	2.40	0.48
15:H:276:GLY:HA2	15:H:279:LEU:HD12	1.96	0.48
18:K:78:GLU:OE1	21:N:584:ARG:NH1	2.43	0.48
18:K:367:ASP:O	18:K:370:SER:HB3	2.12	0.48
19:L:99:GLN:O	19:L:101:ILE:HG23	2.14	0.48
21:N:69:TYR:CB	21:N:74:GLU:HB2	2.39	0.48
21:N:241:LEU:HA	21:N:244:LYS:HE3	1.95	0.48
21:N:514:THR:HA	21:N:517:LEU:HD12	1.96	0.48
21:N:653:ARG:O	21:N:657:MET:HG3	2.13	0.48
21:N:766:GLN:HB3	21:N:768:ILE:HD13	1.95	0.48
22:O:143:LEU:HD21	22:O:181:PHE:HB2	1.94	0.48
23:P:245:TYR:OH	23:P:261:LEU:HB2	2.14	0.48
24:Q:264:TYR:CE1	24:Q:328:ASP:HB3	2.48	0.48
24:Q:293:SER:OG	24:Q:296:ILE:HG12	2.12	0.48
25:R:271:ILE:HG23	25:R:272:ASP:N	2.29	0.48
26:S:231:ALA:HB3	26:S:259:TYR:CZ	2.48	0.48
26:S:276:LEU:HG	26:S:292:TYR:CE2	2.48	0.48
26:S:368:LYS:HE3	27:T:133:ILE:HD13	1.94	0.48
27:T:222:LEU:HD21	27:T:228:ILE:HD12	1.94	0.48
29:V:53:MET:SD	29:V:108:TYR:HB3	2.53	0.48
30:W:56:GLY:C	30:W:86:HIS:HE2	2.21	0.48
30:W:137:VAL:O	30:W:168:THR:HA	2.13	0.48
33:Z:308:LYS:CD	33:Z:920:GLY:HA3	2.44	0.48
33:Z:328:ASP:H	33:Z:332:ASN:H	1.59	0.48
33:Z:361:HIS:C	33:Z:364:ASN:HB2	2.38	0.48
9:b:134:LEU:O	9:b:149:GLN:HA	2.13	0.48
10:c:4:ARG:HG2	11:d:6:ARG:NH1	2.27	0.48
10:c:59:GLN:CD	10:c:209:ASP:HA	2.38	0.48
10:c:103:ASN:HD22	6:k:82:SER:CB	2.27	0.48
11:d:11:PHE:H	12:e:23:GLN:NE2	2.09	0.48
3:h:26:THR:OG1	3:h:142:PRO:O	2.30	0.48
7:l:251:ASN:ND2	7:l:265:ASN:HB2	2.28	0.48
7:l:276:LYS:NZ	7:l:285:VAL:HG12	2.28	0.48
2:2:124:TYR:HD1	13:f:99:PHE:O	1.97	0.48
3:3:52:LYS:HA	3:3:64:ARG:NH2	2.28	0.48
4:4:247:VAL:HB	5:5:195:VAL:HB	1.95	0.48
5:5:124:PHE:CD1	5:5:130:ILE:HA	2.49	0.48
2:9:37:PRO:HB3	2:9:144:TRP:CD1	2.49	0.48
8:A:73:PHE:HE2	8:A:90:ALA:HB1	1.77	0.48
10:C:38:ILE:HG12	10:C:162:ALA:HB1	1.96	0.48
10:C:139:GLY:O	10:C:147:GLN:N	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:175:LEU:HD21	11:D:198:SER:HB3	1.95	0.48
15:H:54:ASN:HB2	16:I:119:GLU:O	2.13	0.48
15:H:434:ARG:CB	33:Z:929:VAL:HG11	2.42	0.48
16:I:242:PRO:CG	16:I:346:ARG:CA	2.86	0.48
17:J:129:LYS:CE	17:J:129:LYS:N	2.75	0.48
17:J:130:ALA:HB1	17:J:131:ASP:CB	2.17	0.48
18:K:73:ARG:O	18:K:76:LYS:HB3	2.13	0.48
19:L:276:CYS:O	19:L:321:THR:HA	2.13	0.48
19:L:358:LEU:HA	19:L:361:PHE:HB3	1.95	0.48
21:N:150:LEU:CD1	21:N:173:LYS:HG2	2.44	0.48
21:N:340:HIS:HA	21:N:343:THR:HB	1.95	0.48
21:N:626:GLY:C	21:N:662:MET:HE3	2.39	0.48
22:O:297:ILE:O	22:O:305:ILE:HD13	2.14	0.48
23:P:208:PHE:HB2	23:P:217:LYS:HZ1	1.79	0.48
24:Q:387:TYR:CD1	24:Q:387:TYR:C	2.90	0.48
25:R:117:ILE:HA	25:R:120:LEU:HD12	1.96	0.48
25:R:292:LEU:HD22	25:R:307:TYR:CE2	2.49	0.48
25:R:331:ARG:HA	25:R:334:ARG:HB3	1.95	0.48
25:R:366:ASN:O	25:R:370:LYS:N	2.47	0.48
26:S:330:LEU:CA	26:S:333:PHE:HB2	2.41	0.48
26:S:397:LEU:HD11	26:S:432:ILE:HB	1.95	0.48
27:T:267:ALA:O	27:T:271:GLU:HB2	2.13	0.48
28:U:24:ARG:HD3	29:V:100:ARG:CA	2.42	0.48
29:V:50:MET:HE1	29:V:82:ALA:HB3	1.94	0.48
29:V:124:ASN:HA	29:V:127:LYS:HE2	1.95	0.48
29:V:264:GLU:HB3	29:V:280:LEU:HD21	1.95	0.48
33:Z:223:LEU:O	33:Z:227:ILE:HG12	2.13	0.48
33:Z:345:GLU:O	33:Z:348:LEU:N	2.47	0.48
8:a:115:ASP:CG	4:i:101:ARG:HH12	2.21	0.48
10:c:4:ARG:HB3	11:d:6:ARG:HH22	1.78	0.48
10:c:60:ASP:OD1	10:c:232:PRO:HG2	2.13	0.48
10:c:197:LEU:O	10:c:201:THR:OG1	2.23	0.48
11:d:96:HIS:NE2	11:d:100:LEU:HD22	2.28	0.48
12:e:123:PHE:HB3	12:e:134:MET:HE3	1.94	0.48
13:f:187:ASP:O	13:f:190:ILE:HB	2.14	0.48
14:g:91:ARG:O	14:g:94:GLU:HB2	2.13	0.48
14:g:151:LEU:HD13	14:g:157:TYR:CD2	2.41	0.48
14:g:201:TYR:CD1	14:g:212:PHE:HZ	2.31	0.48
4:i:59:ASN:HD21	4:i:218:ASN:ND2	2.11	0.48
5:j:49:VAL:HG22	5:j:84:PRO:HG3	1.95	0.48
1:l:76:PHE:HE2	1:l:78:ALA:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:181:ALA:O	3:3:185:ASP:N	2.43	0.48
5:5:49:VAL:HG22	5:5:84:PRO:HG3	1.95	0.48
5:5:66:MET:O	5:5:69:TYR:HB3	2.13	0.48
1:8:76:PHE:HE2	1:8:78:ALA:HB3	1.78	0.48
1:8:96:PHE:CD2	13:F:89:ARG:HD3	2.48	0.48
2:9:74:ARG:O	2:9:85:GLY:HA2	2.13	0.48
2:9:113:LEU:HB2	2:9:118:GLU:HG2	1.96	0.48
2:9:226:ARG:HG2	2:9:246:GLN:CG	2.43	0.48
12:E:83:ALA:HA	12:E:86:ARG:HG2	1.95	0.48
15:H:156:VAL:HG11	20:M:163:PHE:CD2	2.48	0.48
16:I:133:ILE:HD12	17:J:93:LYS:HB3	1.93	0.48
17:J:251:ASP:CG	17:J:293:ALA:H	2.21	0.48
18:K:77:ARG:O	18:K:80:LYS:N	2.46	0.48
18:K:267:SER:O	18:K:312:VAL:HA	2.13	0.48
19:L:161:ARG:HG2	19:L:162:GLU:N	2.29	0.48
21:N:326:SER:O	21:N:329:HIS:N	2.46	0.48
21:N:422:TYR:O	21:N:425:ASN:HB2	2.13	0.48
21:N:444:HIS:ND1	21:N:476:THR:O	2.46	0.48
21:N:641:LEU:HB2	21:N:660:LEU:HD21	1.94	0.48
22:O:343:GLN:HG2	23:P:364:ARG:HG2	1.94	0.48
23:P:109:SER:O	23:P:113:ASN:N	2.39	0.48
23:P:123:ARG:HB3	23:P:127:GLU:HB3	1.94	0.48
23:P:184:MET:HG2	23:P:196:ALA:CA	2.38	0.48
23:P:383:LEU:O	23:P:387:GLY:N	2.47	0.48
23:P:411:LEU:HA	23:P:415:TRP:H	1.77	0.48
24:Q:51:ARG:NH1	24:Q:55:GLU:HB2	2.29	0.48
24:Q:376:LYS:HD2	24:Q:376:LYS:N	2.29	0.48
25:R:43:ARG:HD3	25:R:88:LEU:C	2.38	0.48
25:R:45:GLU:O	25:R:48:GLU:HB3	2.13	0.48
25:R:187:VAL:HA	25:R:190:LYS:HD2	1.95	0.48
25:R:287:GLN:C	25:R:291:SER:HB2	2.38	0.48
25:R:317:ILE:HB	25:R:318:PRO:HD3	1.95	0.48
25:R:384:VAL:CB	26:S:402:ILE:CG2	2.79	0.48
26:S:439:GLU:OE2	27:T:199:PHE:HB2	2.13	0.48
27:T:200:LEU:HD23	27:T:205:ILE:HB	1.96	0.48
27:T:214:GLU:O	27:T:218:GLU:HG3	2.13	0.48
28:U:57:GLU:O	28:U:66:TRP:HB2	2.14	0.48
29:V:48:GLU:CB	29:V:109:HIS:HB3	2.35	0.48
30:W:10:ILE:HG12	30:W:113:PHE:CD2	2.48	0.48
30:W:12:ASN:HA	30:W:16:SER:CB	2.43	0.48
30:W:172:LEU:HD22	30:W:188:SER:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:266:LYS:C	33:Z:269:TYR:HB3	2.38	0.48
33:Z:324:GLU:CA	33:Z:327:GLN:HB3	2.43	0.48
33:Z:568:LEU:HD11	33:Z:598:ALA:CB	2.43	0.48
33:Z:741:LEU:HD12	33:Z:775:MET:HG2	1.96	0.48
8:a:154:ILE:O	8:a:165:GLY:HA2	2.14	0.48
8:a:172:GLY:N	8:a:175:GLN:HB2	2.29	0.48
10:c:50:ARG:HG3	10:c:211:LEU:C	2.39	0.48
10:c:191:GLU:HG3	10:c:242:THR:HG22	1.95	0.48
12:e:156:PHE:HA	12:e:165:TYR:O	2.13	0.48
12:e:212:LEU:HD21	12:e:240:ILE:HG12	1.95	0.48
14:g:20:ARG:NE	14:g:25:GLU:OE2	2.46	0.48
14:g:43:ASN:HD21	14:g:188:SER:HA	1.79	0.48
14:g:46:VAL:HG13	14:g:146:ALA:HB1	1.95	0.48
14:g:126:TYR:O	14:g:129:VAL:CG2	2.61	0.48
5:j:124:PHE:CD1	5:j:130:ILE:HA	2.49	0.48
6:k:96:ARG:NH1	7:l:166:LYS:HD3	2.28	0.48
2:2:74:ARG:O	2:2:85:GLY:HA2	2.13	0.48
2:2:183:MET:O	2:2:186:PRO:HD2	2.14	0.48
3:3:86:THR:HA	3:3:90:GLY:O	2.14	0.48
4:4:59:ASN:HD21	4:4:218:ASN:ND2	2.11	0.48
4:4:104:ARG:HH21	8:A:149:GLU:CD	2.22	0.48
6:6:52:ASP:H	7:7:166:LYS:NZ	2.12	0.48
7:7:243:ASP:CG	7:7:245:TYR:H	2.20	0.48
7:7:273:TRP:CG	5:j:201:LYS:HE3	2.49	0.48
2:9:49:TYR:HD2	2:9:50:ASP:OD1	1.97	0.48
2:9:253:ASP:HA	3:h:208:TYR:CZ	2.49	0.48
10:C:206:LEU:HD11	10:C:211:LEU:HD21	1.96	0.48
11:D:94:GLN:HA	11:D:97:ARG:HD3	1.96	0.48
11:D:118:GLN:OE1	12:E:83:ALA:HB3	2.13	0.48
12:E:21:LEU:HB2	12:E:24:VAL:HB	1.96	0.48
13:F:48:ALA:HB3	13:F:212:SER:HB3	1.96	0.48
15:H:39:SER:O	15:H:43:ALA:N	2.29	0.48
15:H:238:LEU:HB2	15:H:240:ILE:HG12	1.96	0.48
16:I:251:ALA:H	16:I:377:PHE:HD2	1.62	0.48
16:I:384:THR:O	16:I:387:LYS:HB3	2.14	0.48
17:J:113:VAL:HG12	17:J:125:VAL:HA	1.95	0.48
18:K:217:THR:OG1	18:K:340:PHE:CE2	2.64	0.48
19:L:356:GLY:O	19:L:359:GLU:HB3	2.13	0.48
20:M:172:VAL:HG11	20:M:273:LYS:HE3	1.96	0.48
21:N:150:LEU:HD12	21:N:173:LYS:HG2	1.95	0.48
21:N:875:LEU:HG	21:N:877:GLN:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:147:LYS:O	23:P:152:LYS:N	2.47	0.48
23:P:221:TYR:HH	23:P:245:TYR:H	1.61	0.48
23:P:363:LEU:O	23:P:367:GLU:N	2.24	0.48
24:Q:254:SER:O	24:Q:257:LYS:HB3	2.14	0.48
24:Q:314:PHE:HD2	24:Q:339:TYR:CG	2.01	0.48
24:Q:358:GLU:OE2	24:Q:360:SER:HB2	2.13	0.48
24:Q:414:GLU:O	24:Q:418:GLN:N	2.38	0.48
25:R:23:ASN:HD21	25:R:142:ALA:HB1	1.79	0.48
25:R:284:ALA:O	25:R:287:GLN:CG	2.62	0.48
25:R:371:PHE:HB2	25:R:377:LEU:HD21	1.94	0.48
26:S:24:LYS:HA	26:S:27:GLU:CB	2.44	0.48
26:S:144:LEU:C	26:S:146:LEU:H	2.21	0.48
26:S:207:ASN:HA	26:S:210:LEU:HB3	1.96	0.48
27:T:50:ILE:O	27:T:55:LEU:N	2.45	0.48
30:W:164:PRO:HD2	30:W:168:THR:HG23	1.95	0.48
31:X:38:ASN:HA	31:X:47:ASP:N	2.25	0.48
33:Z:377:ALA:HA	33:Z:380:ASN:HB2	1.96	0.48
8:a:101:ALA:O	8:a:105:ARG:N	2.30	0.48
8:a:232:LYS:HE2	8:a:234:PHE:HB3	1.95	0.48
13:f:48:ALA:HB3	13:f:212:SER:HB3	1.96	0.48
3:h:38:ARG:NH1	3:h:188:SER:O	2.47	0.48
3:h:130:TYR:CE2	3:h:140:LYS:HB2	2.49	0.48
5:j:125:ASP:OD1	5:j:129:CYS:N	2.45	0.48
7:l:239:ALA:O	7:l:243:ASP:N	2.36	0.48
2:2:49:TYR:HD2	2:2:50:ASP:OD1	1.97	0.48
2:2:173:PRO:HG3	2:2:198:ILE:HD11	1.95	0.48
5:5:164:PHE:CE1	5:5:198:ARG:HD2	2.48	0.48
7:7:276:LYS:NZ	7:7:285:VAL:HG12	2.28	0.48
1:8:89:ASN:OD1	13:F:93:ASN:ND2	2.47	0.48
2:9:183:MET:O	2:9:186:PRO:HD2	2.14	0.48
2:9:256:LYS:HG3	2:9:257:ASP:OD1	2.14	0.48
8:A:13:ASP:OD1	8:A:14:ARG:N	2.46	0.48
8:A:60:PRO:HG2	8:A:64:LEU:HD11	1.95	0.48
10:C:20:TYR:HB3	10:C:24:TYR:CE2	2.49	0.48
10:C:172:ALA:O	10:C:176:LEU:HG	2.13	0.48
12:E:212:LEU:HD21	12:E:240:ILE:HG12	1.95	0.48
13:F:231:ALA:HA	13:F:234:ILE:HD12	1.96	0.48
15:H:303:ALA:H	15:H:348:ASN:HB3	1.79	0.48
16:I:254:THR:HA	16:I:258:LEU:HD12	1.96	0.48
16:I:255:GLY:HA3	16:I:377:PHE:CB	2.43	0.48
16:I:286:ASP:H	17:J:223:ILE:CD1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:140:LEU:HD21	19:L:158:ILE:HG12	1.95	0.48
19:L:254:LYS:CA	19:L:255:TYR:HB2	2.44	0.48
21:N:131:PRO:HA	21:N:134:THR:HB	1.96	0.48
21:N:244:LYS:O	21:N:248:GLU:HG2	2.14	0.48
21:N:321:LEU:O	21:N:328:PHE:HE2	1.97	0.48
21:N:386:MET:C	21:N:390:LEU:HG	2.39	0.48
22:O:126:ILE:O	22:O:130:ASP:CG	2.57	0.48
22:O:266:PHE:CE2	22:O:274:ILE:HG12	2.48	0.48
22:O:301:PHE:HE2	22:O:308:LEU:N	2.12	0.48
22:O:314:SER:O	22:O:317:THR:OG1	2.15	0.48
23:P:56:LYS:HZ1	23:P:91:LEU:HB2	1.79	0.48
23:P:63:VAL:O	23:P:66:LEU:HB2	2.14	0.48
23:P:187:SER:HB3	23:P:192:ASP:O	2.14	0.48
23:P:222:ASN:O	23:P:225:VAL:HB	2.13	0.48
23:P:285:GLN:OE1	23:P:285:GLN:N	2.43	0.48
24:Q:409:TYR:HB3	25:R:399:GLN:HA	1.95	0.48
25:R:99:TYR:HA	25:R:102:LEU:HB3	1.95	0.48
25:R:147:LYS:O	25:R:151:GLU:CD	2.56	0.48
26:S:9:ASP:C	26:S:12:SER:HG	2.15	0.48
26:S:399:TYR:HB3	26:S:402:ILE:HD13	1.95	0.48
26:S:438:HIS:C	26:S:441:GLY:H	2.21	0.48
28:U:5:HIS:HB3	28:U:157:LEU:HD21	1.95	0.48
28:U:167:GLU:O	28:U:171:VAL:HG23	2.14	0.48
33:Z:384:SER:OG	33:Z:406:TRP:O	2.24	0.48
33:Z:385:PHE:CE1	33:Z:417:SER:HB2	2.49	0.48
33:Z:490:ILE:CG2	33:Z:526:ALA:HA	2.44	0.48
8:a:198:SER:OG	8:a:201:LYS:HG2	2.14	0.48
10:c:168:ASN:ND2	10:c:202:ASP:OD1	2.24	0.48
11:d:4:TYR:O	11:d:125:GLY:HA3	2.14	0.48
11:d:157:SER:HB2	12:e:59:LEU:HD11	1.96	0.48
12:e:21:LEU:HB2	12:e:24:VAL:HB	1.96	0.48
12:e:236:THR:HG22	12:e:240:ILE:HD11	1.95	0.48
13:f:51:ARG:O	13:f:60:GLN:N	2.42	0.48
13:f:136:GLY:HA2	13:f:216:VAL:HG11	1.95	0.48
4:i:128:ILE:HD11	4:i:156:LEU:N	2.29	0.48
4:i:235:PRO:O	4:i:238:THR:OG1	2.16	0.48
6:k:143:LEU:O	6:k:147:HIS:ND1	2.35	0.48
2:2:113:LEU:HB2	2:2:118:GLU:HG2	1.95	0.48
2:2:256:LYS:HG3	2:2:257:ASP:OD1	2.14	0.48
4:4:72:CYS:SG	4:4:127:LEU:HD22	2.54	0.48
5:5:78:GLU:OE1	5:5:80:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:94:ARG:CZ	7:7:247:GLY:HA3	2.44	0.48
7:7:114:PRO:O	7:7:259:GLY:HA3	2.13	0.48
7:7:181:ARG:HB2	7:7:257:GLU:OE2	2.13	0.48
1:8:32:LEU:N	1:8:43:ALA:O	2.31	0.48
8:A:101:ALA:O	8:A:105:ARG:N	2.30	0.48
10:C:191:GLU:HG3	10:C:242:THR:HG22	1.95	0.48
11:D:181:ARG:NH2	12:E:57:PRO:O	2.47	0.48
13:F:228:GLU:OE1	13:F:228:GLU:N	2.29	0.48
15:H:59:ILE:CA	15:H:62:ARG:HB3	2.41	0.48
15:H:101:ARG:H	15:H:173:ARG:NE	2.11	0.48
15:H:295:PHE:CE2	15:H:339:GLN:HB2	2.49	0.48
16:I:204:PRO:HD2	16:I:265:ASN:N	2.29	0.48
17:J:276:LEU:CD2	17:J:290:ILE:HD12	2.44	0.48
18:K:217:THR:OG1	18:K:340:PHE:CE1	2.55	0.48
18:K:287:GLY:C	18:K:289:ASP:H	2.22	0.48
19:L:365:THR:OG1	19:L:366:ALA:N	2.45	0.48
19:L:369:LYS:O	19:L:409:HIS:HA	2.14	0.48
19:L:394:CYS:SG	19:L:422:VAL:HG11	2.54	0.48
20:M:148:VAL:HA	20:M:156:LEU:H	1.78	0.48
20:M:187:ASP:HA	20:M:190:ILE:HD12	1.95	0.48
21:N:181:GLU:O	21:N:184:LYS:N	2.47	0.48
21:N:217:MET:SD	21:N:244:LYS:NZ	2.80	0.48
21:N:230:VAL:O	21:N:233:ASN:ND2	2.46	0.48
21:N:559:TYR:C	21:N:594:VAL:HG22	2.38	0.48
22:O:321:LYS:O	22:O:325:GLU:HG3	2.14	0.48
22:O:363:ILE:O	28:U:204:LEU:HD13	2.14	0.48
22:O:382:LYS:HD3	22:O:383:LYS:HZ2	1.79	0.48
23:P:164:GLN:OE1	23:P:202:LYS:NZ	2.47	0.48
23:P:319:GLU:HB2	23:P:324:GLU:HB2	1.96	0.48
23:P:331:GLY:HA2	23:P:336:HIS:HB2	1.96	0.48
25:R:200:LYS:CD	25:R:200:LYS:C	2.86	0.48
25:R:223:ASN:OD1	25:R:227:ALA:HB3	2.13	0.48
25:R:373:PRO:C	25:R:375:LYS:H	2.21	0.48
26:S:235:ASN:HA	26:S:238:LEU:HD12	1.95	0.48
27:T:39:LEU:HD13	27:T:55:LEU:HA	1.95	0.48
27:T:55:LEU:HA	27:T:58:THR:HB	1.94	0.48
27:T:84:GLN:O	27:T:87:PRO:HD2	2.14	0.48
27:T:104:LYS:NZ	27:T:169:GLN:OE1	2.35	0.48
27:T:251:HIS:CE1	27:T:253:GLU:OE1	2.67	0.48
28:U:35:GLY:HA3	28:U:52:PHE:O	2.14	0.48
28:U:226:LEU:HA	28:U:229:LEU:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:31:SER:O	29:V:35:LEU:HG	2.14	0.48
30:W:2:VAL:O	30:W:44:ASN:ND2	2.35	0.48
30:W:125:LEU:HA	30:W:128:LEU:HD12	1.95	0.48
30:W:143:ASN:HD21	30:W:149:GLN:N	2.12	0.48
33:Z:301:THR:HG23	33:Z:306:MET:HG2	1.96	0.48
33:Z:374:LEU:HD13	33:Z:379:GLN:HB3	1.95	0.48
33:Z:531:ALA:HB1	33:Z:572:ILE:HB	1.96	0.48
9:b:98:LYS:HA	9:b:103:GLU:H	1.78	0.48
10:c:20:TYR:HB3	10:c:24:TYR:CE2	2.49	0.48
10:c:191:GLU:O	10:c:195:LYS:HG2	2.13	0.48
11:d:20:VAL:O	11:d:24:LEU:HG	2.14	0.48
14:g:204:HIS:NE2	14:g:208:LYS:HA	2.29	0.48
14:g:217:SER:HA	14:g:230:PHE:HA	1.95	0.48
4:i:236:ARG:HH21	5:j:162:ASP:H	1.62	0.48
6:k:119:ILE:HA	6:k:124:THR:O	2.13	0.48
7:l:110:ILE:HD11	7:l:120:MET:HE3	1.96	0.48
7:l:151:VAL:HG12	7:l:188:TYR:HD2	1.79	0.48
1:1:177:ASN:HB3	5:5:172:LEU:HD23	1.95	0.47
1:1:214:HIS:CD2	1:1:217:VAL:HG23	2.36	0.47
4:4:176:THR:H	4:4:179:GLU:HB2	1.79	0.47
5:5:9:GLY:HA3	5:5:180:LEU:HB3	1.94	0.47
1:8:68:ASN:CG	1:8:230:GLY:HA2	2.39	0.47
2:9:173:PRO:HG3	2:9:198:ILE:HD11	1.95	0.47
2:9:218:TYR:HB2	2:9:247:VAL:HG21	1.95	0.47
8:A:198:SER:OG	8:A:201:LYS:HG2	2.14	0.47
10:C:48:ALA:O	10:C:212:GLU:N	2.35	0.47
11:D:36:VAL:HG23	11:D:191:CYS:SG	2.53	0.47
14:G:99:PHE:CE1	14:G:107:ILE:HA	2.49	0.47
14:G:126:TYR:H	14:G:129:VAL:CG2	2.27	0.47
15:H:170:GLU:C	15:H:172:MET:N	2.72	0.47
15:H:270:THR:HB	15:H:304:CYS:CB	2.44	0.47
15:H:292:ARG:O	15:H:295:PHE:N	2.47	0.47
15:H:336:LEU:C	15:H:370:ARG:NH2	2.71	0.47
15:H:439:THR:N	15:H:442:ASP:OD2	2.23	0.47
17:J:377:VAL:HG12	17:J:378:THR:O	2.14	0.47
18:K:226:VAL:O	18:K:230:THR:HG23	2.14	0.47
19:L:289:ARG:HB3	20:M:293:SER:OG	2.14	0.47
21:N:717:LEU:N	21:N:719:ASN:OD1	2.47	0.47
21:N:721:ASP:HA	21:N:899:ASN:OD1	2.13	0.47
22:O:245:ASP:HA	22:O:249:ASP:CG	2.38	0.47
25:R:109:LYS:HD3	25:R:140:TYR:CG	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:371:PHE:HB3	25:R:377:LEU:HG	1.95	0.47
26:S:167:LEU:HD12	26:S:171:TYR:CE2	2.49	0.47
26:S:212:SER:O	26:S:215:MET:HB3	2.13	0.47
26:S:241:PHE:CG	26:S:247:VAL:HA	2.49	0.47
26:S:329:GLU:HG3	32:Y:63:ASN:CB	2.44	0.47
27:T:204:ASN:O	27:T:208:LEU:N	2.29	0.47
29:V:119:SER:O	29:V:123:VAL:N	2.30	0.47
29:V:232:GLU:C	29:V:235:GLU:H	2.22	0.47
29:V:264:GLU:HG2	29:V:276:PRO:O	2.14	0.47
31:X:10:PHE:HB3	31:X:87:PHE:CZ	2.49	0.47
33:Z:135:LEU:HB2	33:Z:157:LEU:HD22	1.96	0.47
33:Z:278:LEU:HD12	33:Z:282:ILE:HD11	1.95	0.47
33:Z:360:SER:OG	33:Z:361:HIS:N	2.47	0.47
33:Z:753:GLY:CA	33:Z:754:LYS:CB	2.92	0.47
9:b:37:ILE:HA	9:b:161:ALA:CB	2.44	0.47
9:b:180:ASN:OD1	9:b:182:GLU:N	2.47	0.47
12:e:21:LEU:O	12:e:25:GLU:HG2	2.14	0.47
13:f:75:ALA:C	13:f:130:VAL:HG23	2.39	0.47
14:g:99:PHE:CE1	14:g:107:ILE:HA	2.49	0.47
3:h:25:VAL:C	3:h:31:VAL:HG23	2.39	0.47
3:h:39:THR:OG1	3:h:47:ASN:O	2.29	0.47
1:1:179:TYR:HA	1:1:188:LYS:HA	1.95	0.47
3:3:25:VAL:C	3:3:31:VAL:HG23	2.39	0.47
4:4:42:VAL:HG23	4:4:206:VAL:HA	1.96	0.47
5:5:149:MET:HE2	5:5:173:ASN:HB2	1.96	0.47
6:6:47:ALA:O	6:6:101:ASN:N	2.43	0.47
7:7:272:PHE:CE2	5:j:204:GLN:HG3	2.48	0.47
9:B:180:ASN:OD1	9:B:182:GLU:N	2.47	0.47
10:C:50:ARG:HG3	10:C:211:LEU:C	2.39	0.47
14:G:85:GLY:O	14:G:89:VAL:N	2.29	0.47
14:G:123:HIS:CA	14:G:129:VAL:HB	2.43	0.47
15:H:157:VAL:O	20:M:75:LEU:HD22	2.14	0.47
15:H:277:SER:O	16:I:331:ARG:NH2	2.46	0.47
15:H:397:SER:HB2	15:H:436:LYS:O	2.14	0.47
16:I:146:ILE:HB	16:I:155:TYR:C	2.39	0.47
16:I:188:GLN:HB3	16:I:190:ASP:N	2.28	0.47
17:J:164:ILE:CG1	17:J:185:VAL:HG21	2.44	0.47
17:J:203:ALA:HA	17:J:244:ILE:HD12	1.96	0.47
19:L:105:ILE:O	19:L:122:SER:OG	2.32	0.47
20:M:115:LYS:CA	20:M:131:MET:HE2	2.36	0.47
20:M:172:VAL:HG22	20:M:244:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:268:ALA:O	20:M:271:LYS:N	2.47	0.47
20:M:355:ASP:HA	20:M:358:ALA:HB3	1.96	0.47
21:N:918:GLU:HA	21:N:922:GLN:HG3	1.96	0.47
22:O:132:GLU:O	22:O:136:THR:HG23	2.14	0.47
22:O:311:GLU:HG2	22:O:346:GLU:HB3	1.94	0.47
23:P:421:GLU:O	23:P:424:GLU:HB3	2.13	0.47
24:Q:302:VAL:HG22	24:Q:335:PHE:HE2	1.70	0.47
24:Q:426:LEU:HB3	28:U:293:GLU:CD	2.39	0.47
25:R:89:ASN:ND2	25:R:92:ILE:HB	2.30	0.47
25:R:403:LEU:HD11	26:S:464:ARG:HD2	1.95	0.47
25:R:408:ASP:HA	25:R:411:LEU:HB2	1.96	0.47
26:S:393:ARG:HA	26:S:397:LEU:CD1	2.44	0.47
27:T:20:TYR:HA	27:T:23:CYS:SG	2.54	0.47
27:T:109:TYR:O	27:T:112:ASN:HB3	2.14	0.47
27:T:125:GLU:HA	27:T:128:TYR:HB3	1.94	0.47
28:U:84:ASN:OD1	28:U:85:ALA:N	2.47	0.47
33:Z:262:VAL:O	33:Z:265:LEU:N	2.43	0.47
33:Z:437:ASP:HA	33:Z:440:LEU:HB2	1.96	0.47
33:Z:488:ALA:HA	33:Z:491:LEU:HB2	1.94	0.47
8:a:30:TYR:CZ	14:g:17:PRO:HA	2.49	0.47
9:b:14:PRO:HA	10:c:24:TYR:CZ	2.48	0.47
13:f:14:SER:O	14:g:26:TYR:HB3	2.14	0.47
4:i:176:THR:H	4:i:179:GLU:HB2	1.79	0.47
5:j:164:PHE:CE1	5:j:198:ARG:HD2	2.49	0.47
7:l:94:ARG:CZ	7:l:247:GLY:HA3	2.44	0.47
7:l:140:LEU:HA	7:l:143:LEU:HD12	1.96	0.47
1:1:32:LEU:N	1:1:43:ALA:O	2.31	0.47
1:1:220:GLY:HA2	1:1:237:GLU:HA	1.95	0.47
3:3:88:GLN:HB3	3:3:89:TYR:CD1	2.50	0.47
3:3:180:GLN:NE2	3:h:158:ASP:HB3	2.29	0.47
2:9:60:LEU:HD13	2:9:70:ASN:ND2	2.30	0.47
11:D:189:GLU:HG3	11:D:232:TYR:CE1	2.49	0.47
14:G:71:ASP:OD1	14:G:72:ARG:N	2.47	0.47
14:G:204:HIS:NE2	14:G:208:LYS:HA	2.29	0.47
17:J:76:ILE:HG12	17:J:86:VAL:C	2.40	0.47
17:J:81:ASP:OD2	17:J:95:ILE:HD11	2.15	0.47
17:J:113:VAL:HA	17:J:125:VAL:HA	1.96	0.47
17:J:132:PRO:HD3	17:J:141:LYS:HZ2	1.79	0.47
17:J:170:HIS:CE1	17:J:173:LEU:HG	2.49	0.47
17:J:234:PHE:HZ	17:J:283:GLU:HG2	1.79	0.47
18:K:103:ILE:HD12	18:K:119:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:175:GLY:O	18:K:352:ILE:HG13	2.13	0.47
18:K:182:GLN:HG3	18:K:186:GLU:CD	2.39	0.47
18:K:207:ARG:HH12	18:K:306:PHE:H	1.62	0.47
18:K:374:ARG:NH1	18:K:408:GLU:OE1	2.48	0.47
19:L:224:PRO:HA	19:L:228:LYS:CD	2.41	0.47
20:M:23:LEU:C	20:M:26:SER:HG	2.17	0.47
21:N:513:ILE:O	21:N:517:LEU:HG	2.14	0.47
21:N:582:ASP:O	21:N:586:ALA:N	2.33	0.47
22:O:130:ASP:HB3	22:O:153:LEU:HD11	1.96	0.47
22:O:169:ASN:HA	22:O:195:TYR:CE1	2.50	0.47
23:P:93:ILE:HG22	23:P:97:ILE:HG13	1.96	0.47
23:P:131:PHE:O	23:P:133:GLU:N	2.43	0.47
23:P:143:LEU:CG	23:P:147:LYS:HE3	2.41	0.47
25:R:37:LYS:HG3	25:R:38:VAL:HG23	1.96	0.47
26:S:283:GLN:CD	27:T:120:THR:HG21	2.39	0.47
26:S:333:PHE:O	26:S:342:LEU:HD22	2.14	0.47
26:S:396:SER:HA	26:S:398:THR:H	1.79	0.47
27:T:91:SER:OG	27:T:94:HIS:HB2	2.14	0.47
27:T:169:GLN:O	27:T:174:PHE:N	2.36	0.47
27:T:194:GLU:HA	27:T:235:PHE:CE2	2.49	0.47
27:T:219:LYS:HB3	27:T:223:GLU:OE2	2.15	0.47
28:U:33:CYS:N	28:U:95:SER:OG	2.47	0.47
29:V:29:ILE:O	29:V:203:TYR:HB2	2.13	0.47
30:W:56:GLY:N	30:W:83:GLY:HA3	2.27	0.47
33:Z:352:LYS:HE3	33:Z:466:GLU:C	2.32	0.47
33:Z:497:PHE:HD2	33:Z:505:VAL:HG11	1.79	0.47
33:Z:517:ASP:HB3	33:Z:521:GLU:H	1.79	0.47
33:Z:529:ALA:O	33:Z:533:VAL:HG23	2.14	0.47
33:Z:531:ALA:HA	33:Z:573:LEU:HG	1.95	0.47
33:Z:862:MET:HA	33:Z:910:PRO:C	2.39	0.47
8:a:135:ARG:CZ	14:g:125:LEU:HD23	2.44	0.47
9:b:205:ASN:OD1	9:b:208:THR:N	2.47	0.47
11:d:70:HIS:CD2	11:d:71:VAL:HG23	2.48	0.47
11:d:94:GLN:HA	11:d:97:ARG:HD3	1.96	0.47
11:d:171:VAL:O	11:d:174:PHE:HB3	2.14	0.47
14:g:151:LEU:HA	14:g:157:TYR:HB3	1.97	0.47
3:h:37:SER:OG	3:h:191:VAL:N	2.34	0.47
6:k:2:ASP:OD2	6:k:34:LYS:CE	2.62	0.47
1:1:20:GLN:HG3	2:2:34:THR:HG21	1.96	0.47
3:3:38:ARG:NH1	3:3:188:SER:O	2.47	0.47
3:3:82:LEU:HD22	3:3:92:PRO:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:138:VAL:H	2:9:94:GLN:NE2	2.09	0.47
3:3:154:TYR:HB3	3:h:184:TRP:CE2	2.50	0.47
3:3:156:TYR:CE1	3:h:159:LYS:HG3	2.48	0.47
4:4:104:ARG:NH1	8:A:148:GLU:OE2	2.39	0.47
6:6:146:HIS:HD2	6:6:147:HIS:CE1	2.33	0.47
7:7:203:CYS:HB2	7:7:212:TYR:CZ	2.49	0.47
7:7:281:SER:HB2	6:k:145:ASP:O	2.14	0.47
1:8:29:GLY:O	1:8:74:ASN:ND2	2.38	0.47
2:9:226:ARG:HG2	2:9:246:GLN:HG2	1.97	0.47
10:C:238:ILE:HD12	10:C:241:LYS:HB2	1.95	0.47
14:G:91:ARG:O	14:G:94:GLU:HB2	2.13	0.47
14:G:222:SER:OG	14:G:223:GLU:N	2.46	0.47
15:H:55:ASP:O	15:H:59:ILE:HB	2.15	0.47
15:H:299:ARG:HA	15:H:349:ILE:HD11	1.97	0.47
15:H:308:PHE:O	15:H:354:ALA:N	2.43	0.47
16:I:236:GLU:C	16:I:238:MET:H	2.22	0.47
17:J:368:TYR:HD1	17:J:371:ARG:NH2	2.12	0.47
18:K:68:ILE:O	18:K:72:GLN:N	2.42	0.47
18:K:156:SER:H	19:L:126:ARG:HH21	1.61	0.47
18:K:342:SER:C	18:K:344:ARG:N	2.72	0.47
21:N:117:TYR:HA	21:N:123:PHE:CD1	2.49	0.47
21:N:495:PRO:O	21:N:498:ILE:HB	2.15	0.47
21:N:510:HIS:CG	21:N:513:ILE:HD12	2.50	0.47
21:N:762:ARG:HG2	21:N:890:PHE:CE2	2.49	0.47
22:O:167:ILE:HG23	22:O:168:THR:N	2.27	0.47
22:O:189:TYR:CZ	22:O:221:ALA:HB2	2.50	0.47
23:P:258:LYS:O	23:P:261:LEU:N	2.47	0.47
23:P:351:ARG:O	23:P:354:SER:HB2	2.14	0.47
23:P:397:ALA:HB1	23:P:399:ILE:HD12	1.95	0.47
24:Q:86:MET:HE2	24:Q:128:GLU:CD	2.39	0.47
24:Q:219:ASP:CB	24:Q:242:SER:HB3	2.44	0.47
24:Q:339:TYR:O	24:Q:342:LEU:N	2.44	0.47
25:R:230:LEU:HA	25:R:233:ASP:HB2	1.94	0.47
26:S:482:PRO:HG3	28:U:295:LYS:CE	2.41	0.47
27:T:11:LEU:HD13	27:T:26:LEU:HB2	1.95	0.47
27:T:94:HIS:HE1	27:T:97:SER:HB3	1.79	0.47
28:U:6:GLU:HA	28:U:44:SER:HA	1.95	0.47
28:U:24:ARG:HD3	29:V:100:ARG:HA	1.95	0.47
28:U:164:GLU:O	28:U:167:GLU:HB2	2.15	0.47
31:X:11:ARG:O	31:X:85:ARG:NH2	2.47	0.47
33:Z:269:TYR:HD1	33:Z:272:TYR:CE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:875:LYS:HA	33:Z:878:LEU:HB3	1.96	0.47
8:a:147:ASP:OD2	8:a:150:LEU:N	2.42	0.47
10:c:5:ARG:NH2	14:g:10:LEU:HB3	2.30	0.47
11:d:174:PHE:C	11:d:178:ASN:HD22	2.17	0.47
12:e:36:THR:OG1	12:e:174:SER:OG	2.26	0.47
12:e:194:LYS:O	12:e:197:GLU:HB2	2.13	0.47
13:f:208:VAL:HA	13:f:234:ILE:HD11	1.95	0.47
1:1:68:ASN:CG	1:1:230:GLY:HA2	2.39	0.47
1:1:218:GLY:C	1:1:220:GLY:H	2.22	0.47
2:2:39:VAL:O	2:2:90:ILE:HG12	2.14	0.47
2:2:133:MET:HE1	2:2:143:LEU:HB2	1.95	0.47
3:3:130:TYR:CE2	3:3:140:LYS:HB2	2.49	0.47
4:4:128:ILE:HD11	4:4:156:LEU:N	2.29	0.47
4:4:133:ASP:N	4:4:136:GLY:O	2.45	0.47
7:7:78:THR:CG2	7:7:108:LYS:HD3	2.45	0.47
7:7:179:TYR:CE1	7:7:257:GLU:HB2	2.49	0.47
1:8:48:ASN:CG	1:8:55:ASN:HD22	2.19	0.47
1:8:128:THR:CG2	1:8:144:PHE:HB2	2.45	0.47
1:8:211:THR:OG1	1:8:217:VAL:HG12	2.15	0.47
8:A:227:VAL:N	8:A:234:PHE:O	2.36	0.47
10:C:80:LEU:N	10:C:133:VAL:HG22	2.30	0.47
11:D:226:SER:HA	11:D:229:ILE:HB	1.96	0.47
13:F:104:ALA:HB3	13:F:107:ARG:HB3	1.96	0.47
14:G:218:TRP:CH2	14:G:224:THR:HG23	2.50	0.47
15:H:218:ILE:HA	15:H:221:LEU:HD12	1.96	0.47
15:H:390:ARG:O	15:H:394:LYS:HG3	2.15	0.47
16:I:146:ILE:HG13	16:I:147:VAL:H	1.79	0.47
16:I:426:ALA:HB1	16:I:443:PHE:HD1	1.80	0.47
16:I:427:GLY:O	16:I:431:LEU:N	2.44	0.47
17:J:161:LYS:HA	17:J:165:GLU:HB2	1.97	0.47
17:J:232:GLU:HA	17:J:235:VAL:HB	1.96	0.47
18:K:63:LEU:O	18:K:66:ASP:N	2.47	0.47
18:K:215:PRO:O	18:K:217:THR:HG23	2.13	0.47
19:L:312:MET:HB3	19:L:342:ARG:HA	1.95	0.47
20:M:119:VAL:O	20:M:126:THR:HA	2.14	0.47
20:M:243:PHE:HE2	20:M:245:LYS:HB2	1.77	0.47
20:M:274:ALA:HB3	20:M:320:ARG:NH2	2.28	0.47
20:M:334:ASP:N	20:M:337:LEU:HD12	2.30	0.47
21:N:308:ASN:ND2	21:N:873:ARG:HH12	2.11	0.47
21:N:529:GLN:CA	21:N:558:ALA:HB1	2.41	0.47
21:N:880:ARG:HE	21:N:898:GLY:C	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:81:TYR:O	22:O:83:LEU:N	2.48	0.47
23:P:50:SER:HB2	23:P:53:ALA:HB2	1.95	0.47
23:P:273:TYR:CG	23:P:351:ARG:NH2	2.82	0.47
23:P:364:ARG:HA	23:P:367:GLU:OE1	2.14	0.47
24:Q:165:PHE:C	24:Q:167:LYS:H	2.22	0.47
24:Q:370:THR:O	24:Q:373:VAL:N	2.46	0.47
24:Q:401:GLU:HB3	25:R:392:ARG:NH1	2.15	0.47
25:R:48:GLU:HB2	25:R:91:TRP:CZ3	2.50	0.47
25:R:62:TYR:O	25:R:65:TYR:N	2.47	0.47
25:R:120:LEU:HA	25:R:125:GLU:HB3	1.97	0.47
25:R:402:LEU:HB3	25:R:405:LYS:HD2	1.95	0.47
25:R:409:GLY:O	25:R:412:THR:HB	2.14	0.47
26:S:181:ALA:HA	26:S:184:TRP:CG	2.50	0.47
26:S:257:LEU:HD13	26:S:260:PRO:CD	2.41	0.47
26:S:471:LEU:HD23	26:S:474:GLU:OE1	2.15	0.47
27:T:213:ASN:OD1	27:T:214:GLU:N	2.47	0.47
28:U:152:LYS:HG2	28:U:153:THR:N	2.28	0.47
29:V:130:GLU:OE1	29:V:157:ARG:HG3	2.14	0.47
30:W:29:GLN:HG2	30:W:113:PHE:CD1	2.49	0.47
32:Y:85:LYS:O	32:Y:89:GLN:HG2	2.14	0.47
33:Z:106:TRP:CZ3	33:Z:198:GLU:HB2	2.48	0.47
33:Z:433:LEU:HB3	33:Z:437:ASP:CG	2.40	0.47
33:Z:601:VAL:CG1	33:Z:620:LEU:HD12	2.43	0.47
33:Z:782:ILE:HA	33:Z:785:VAL:CG2	2.45	0.47
8:a:46:ARG:HG3	8:a:154:ILE:HG13	1.97	0.47
9:b:81:ASP:OD2	9:b:131:GLY:N	2.39	0.47
10:c:115:LEU:HA	10:c:118:ILE:HD12	1.97	0.47
11:d:138:PHE:HD2	11:d:217:PRO:CA	2.27	0.47
2:2:107:ASN:ND2	2:2:118:GLU:O	2.37	0.47
3:3:108:ASN:O	3:3:112:LEU:N	2.47	0.47
3:3:158:ASP:HB3	3:h:180:GLN:HE22	1.79	0.47
4:4:30:THR:N	4:4:158:SER:OG	2.44	0.47
4:4:156:LEU:C	4:4:160:SER:HB2	2.40	0.47
7:7:250:VAL:N	7:7:265:ASN:OD1	2.48	0.47
1:8:143:SER:HB3	1:8:156:ARG:HG2	1.95	0.47
2:9:58:ASP:OD2	2:9:60:LEU:HB3	2.15	0.47
8:A:208:THR:HG22	8:A:212:ASP:OD2	2.15	0.47
9:B:37:ILE:HA	9:B:161:ALA:CB	2.44	0.47
9:B:39:ALA:N	9:B:42:GLY:O	2.45	0.47
9:B:134:LEU:O	9:B:149:GLN:HA	2.13	0.47
10:C:13:PHE:HE2	11:D:128:PRO:HD2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:171:VAL:O	11:D:174:PHE:HB3	2.14	0.47
11:D:174:PHE:O	11:D:178:ASN:ND2	2.29	0.47
12:E:21:LEU:O	12:E:25:GLU:HG2	2.14	0.47
12:E:225:GLN:HG2	12:E:226:ASP:OD1	2.15	0.47
13:F:50:LYS:CB	13:F:59:TYR:HB3	2.43	0.47
14:G:175:GLU:HA	14:G:178:LYS:HD2	1.96	0.47
14:G:198:LYS:HA	14:G:243:ALA:HB1	1.96	0.47
15:H:275:ILE:HG21	16:I:338:ASN:HD22	1.80	0.47
16:I:177:HIS:ND1	16:I:178:HIS:N	2.63	0.47
17:J:211:ILE:O	17:J:246:PHE:HB3	2.14	0.47
17:J:324:ARG:CD	17:J:353:CYS:HB2	2.44	0.47
19:L:254:LYS:CD	20:M:256:ILE:HG12	2.45	0.47
19:L:333:LEU:HA	19:L:333:LEU:HD23	1.60	0.47
20:M:74:GLN:NE2	20:M:150:LYS:HE3	2.30	0.47
20:M:361:LEU:O	20:M:365:SER:N	2.32	0.47
21:N:64:ILE:O	21:N:68:VAL:HG23	2.14	0.47
21:N:223:LEU:HD12	21:N:226:ASN:HD22	1.79	0.47
21:N:253:LEU:HD23	21:N:257:ILE:HD12	1.96	0.47
21:N:308:ASN:ND2	21:N:873:ARG:HH22	2.12	0.47
21:N:463:TYR:HE1	21:N:501:MET:HE3	1.80	0.47
21:N:466:LEU:HD13	21:N:481:ALA:HA	1.97	0.47
21:N:509:GLN:O	21:N:510:HIS:CG	2.68	0.47
21:N:894:ARG:HE	21:N:897:LYS:HG3	1.78	0.47
22:O:23:HIS:O	22:O:26:PHE:N	2.47	0.47
23:P:55:SER:O	23:P:88:GLN:NE2	2.42	0.47
23:P:89:LEU:N	23:P:92:SER:OG	2.48	0.47
23:P:155:GLU:HA	23:P:158:ASP:HB2	1.96	0.47
23:P:179:PHE:N	23:P:179:PHE:CD1	2.80	0.47
23:P:231:LYS:HZ2	23:P:240:TYR:HE2	1.62	0.47
23:P:341:LEU:CA	23:P:344:ARG:HB3	2.44	0.47
23:P:381:SER:O	23:P:385:ASN:N	2.25	0.47
24:Q:322:GLU:HA	24:Q:325:LEU:HB3	1.95	0.47
25:R:60:ALA:HA	25:R:63:TYR:HB3	1.96	0.47
25:R:176:ARG:HG2	25:R:243:LEU:HD21	1.96	0.47
25:R:218:CYS:HB2	25:R:223:ASN:OD1	2.14	0.47
25:R:382:ASP:HB3	25:R:387:ILE:CG2	2.43	0.47
26:S:4:THR:O	26:S:8:MET:HG2	2.15	0.47
26:S:158:PHE:HA	26:S:161:LYS:HB2	1.97	0.47
26:S:246:GLU:OE2	27:T:121:LYS:HA	2.15	0.47
27:T:169:GLN:HE22	27:T:173:GLU:HB2	1.79	0.47
27:T:178:THR:O	27:T:182:LYS:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:221:ALA:CB	27:T:228:ILE:HD11	2.44	0.47
28:U:24:ARG:CZ	29:V:100:ARG:HA	2.44	0.47
28:U:141:GLU:HA	28:U:152:LYS:CA	2.43	0.47
29:V:289:GLU:O	29:V:292:ILE:HB	2.14	0.47
30:W:12:ASN:HD21	30:W:81:ILE:HG22	1.79	0.47
30:W:27:GLU:HA	30:W:30:ILE:HD12	1.95	0.47
30:W:46:GLU:O	30:W:48:THR:HG23	2.14	0.47
31:X:87:PHE:CB	31:X:99:PHE:HB2	2.38	0.47
33:Z:135:LEU:HD11	33:Z:161:ILE:HG12	1.95	0.47
33:Z:422:ILE:O	33:Z:426:TYR:N	2.45	0.47
33:Z:473:LEU:HD12	33:Z:476:ASP:OD2	2.14	0.47
33:Z:761:PHE:CB	33:Z:780:MET:SD	3.00	0.47
10:c:149:TYR:CE1	11:d:59:ILE:HB	2.49	0.47
10:c:206:LEU:HD11	10:c:211:LEU:HD21	1.96	0.47
11:d:18:PHE:HA	11:d:21:GLU:HB2	1.95	0.47
11:d:215:VAL:HA	11:d:221:ILE:HG12	1.96	0.47
11:d:226:SER:HA	11:d:229:ILE:HB	1.96	0.47
11:d:227:GLU:OE1	11:d:227:GLU:N	2.29	0.47
13:f:7:ASP:HB2	13:f:24:TYR:CE2	2.50	0.47
14:g:45:GLY:HA2	14:g:146:ALA:HB2	1.97	0.47
3:h:16:VAL:HG23	4:i:143:HIS:CD2	2.50	0.47
4:i:72:CYS:SG	4:i:127:LEU:HD22	2.54	0.47
7:l:160:ASN:O	7:l:164:GLN:HG2	2.15	0.47
1:1:105:ILE:HG13	1:1:142:TYR:CE2	2.50	0.47
1:1:179:TYR:HB3	1:1:185:GLY:HA2	1.96	0.47
2:2:40:THR:O	2:2:62:SER:N	2.42	0.47
2:2:58:ASP:OD2	2:2:60:LEU:HB3	2.15	0.47
2:2:60:LEU:HD13	2:2:70:ASN:ND2	2.30	0.47
2:2:218:TYR:HB2	2:2:247:VAL:HG21	1.95	0.47
3:3:106:TYR:O	3:3:109:LYS:HE3	2.15	0.47
3:3:182:ILE:HG23	3:3:189:GLY:HA2	1.96	0.47
4:4:170:HIS:HB2	4:4:183:LEU:HD13	1.97	0.47
5:5:11:ILE:HG21	5:5:142:ALA:H	1.80	0.47
6:6:2:ASP:OD2	6:6:34:LYS:CE	2.62	0.47
6:6:51:GLY:HA3	7:7:166:LYS:HZ2	1.80	0.47
6:6:70:ARG:HG2	6:6:71:GLU:OE2	2.15	0.47
6:6:119:ILE:HA	6:6:124:THR:O	2.13	0.47
6:6:183:ILE:N	6:6:190:ARG:O	2.44	0.47
7:7:151:VAL:HG12	7:7:188:TYR:HD2	1.79	0.47
7:7:160:ASN:O	7:7:164:GLN:HG2	2.15	0.47
7:7:251:ASN:ND2	7:7:265:ASN:HB2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:46:THR:HG22	1:8:58:TYR:HA	1.97	0.47
1:8:130:ILE:HG12	1:8:142:TYR:HB2	1.95	0.47
8:A:88:PRO:O	8:A:92:ASN:N	2.35	0.47
10:C:46:LEU:HB2	10:C:214:ALA:HB3	1.97	0.47
13:F:7:ASP:HB2	13:F:24:TYR:CE2	2.50	0.47
13:F:11:VAL:HG21	14:G:128:SER:CA	2.45	0.47
13:F:173:GLU:HG3	14:G:57:LYS:HB2	1.95	0.47
14:G:43:ASN:HD21	14:G:188:SER:HA	1.79	0.47
14:G:204:HIS:O	14:G:208:LYS:N	2.47	0.47
15:H:100:ALA:CA	15:H:173:ARG:HD3	2.36	0.47
15:H:145:TYR:CB	15:H:168:ILE:HG22	2.35	0.47
15:H:147:ILE:HG12	15:H:176:VAL:HA	1.97	0.47
15:H:195:VAL:HG23	15:H:196:THR:O	2.13	0.47
15:H:204:PRO:HD2	15:H:265:ASN:N	2.30	0.47
15:H:207:THR:O	15:H:262:ALA:HB1	2.14	0.47
15:H:216:ASP:O	15:H:219:GLU:HB3	2.15	0.47
15:H:246:ILE:HA	15:H:373:ARG:O	2.13	0.47
15:H:288:ALA:HB1	15:H:292:ARG:NH1	2.17	0.47
16:I:136:LEU:O	16:I:171:GLY:HA2	2.15	0.47
17:J:56:ARG:HG3	17:J:57:PHE:N	2.30	0.47
17:J:164:ILE:C	17:J:167:PRO:HD2	2.40	0.47
17:J:388:LYS:HA	17:J:391:ASN:ND2	2.29	0.47
18:K:80:LYS:HA	18:K:83:GLN:HB3	1.97	0.47
18:K:106:ASN:HA	18:K:122:ILE:CG1	2.44	0.47
18:K:129:GLU:HG3	29:V:275:ASP:H	1.80	0.47
18:K:344:ARG:HD2	18:K:379:SER:CA	2.44	0.47
19:L:123:SER:CB	20:M:125:GLN:HA	2.45	0.47
19:L:364:HIS:ND1	19:L:388:GLY:O	2.42	0.47
19:L:406:ASP:C	19:L:407:ARG:HH11	2.21	0.47
20:M:282:GLU:N	20:M:326:ALA:O	2.48	0.47
20:M:339:ARG:CD	20:M:342:ARG:HD2	2.44	0.47
21:N:19:SER:O	21:N:22:THR:HB	2.13	0.47
21:N:178:SER:OG	21:N:182:ASN:CG	2.57	0.47
21:N:426:ILE:O	21:N:429:GLU:HB3	2.14	0.47
21:N:461:GLU:HA	21:N:464:GLU:HB3	1.96	0.47
21:N:572:LEU:O	21:N:576:VAL:N	2.30	0.47
21:N:603:PRO:O	21:N:607:GLN:N	2.46	0.47
21:N:734:VAL:O	21:N:737:SER:OG	2.28	0.47
21:N:739:PHE:HA	21:N:742:TRP:O	2.15	0.47
21:N:775:CYS:HB2	21:N:883:SER:H	1.80	0.47
22:O:79:VAL:HG21	22:O:131:SER:OG	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:166:ARG:NH1	22:O:170:SER:HB2	2.30	0.47
22:O:176:SER:HB2	22:O:188:PHE:CE1	2.50	0.47
22:O:287:LEU:HD22	22:O:291:ILE:HD11	1.95	0.47
22:O:387:ARG:HB3	27:T:266:TYR:HH	1.80	0.47
23:P:40:LEU:HB3	23:P:44:LYS:HZ1	1.80	0.47
23:P:137:ALA:HB1	23:P:179:PHE:CD2	2.49	0.47
23:P:138:ARG:O	23:P:141:LYS:HG2	2.14	0.47
23:P:197:THR:C	23:P:200:SER:HG	2.19	0.47
23:P:245:TYR:C	23:P:257:TRP:HE1	2.10	0.47
23:P:266:TYR:O	23:P:270:LEU:HG	2.14	0.47
23:P:346:ILE:O	23:P:350:LEU:HG	2.15	0.47
23:P:418:ASN:HA	23:P:421:GLU:CD	2.40	0.47
24:Q:62:GLY:O	24:Q:65:TYR:HB2	2.14	0.47
24:Q:131:VAL:HA	24:Q:134:LYS:HZ3	1.80	0.47
24:Q:267:LEU:O	24:Q:271:MET:N	2.21	0.47
24:Q:289:GLU:HB3	24:Q:291:TYR:CD2	2.49	0.47
24:Q:312:LEU:HG	24:Q:316:THR:OG1	2.14	0.47
24:Q:314:PHE:O	24:Q:318:LEU:N	2.30	0.47
25:R:77:SER:O	25:R:92:ILE:HG23	2.14	0.47
25:R:288:SER:HA	25:R:292:LEU:HG	1.97	0.47
25:R:333:MET:CA	25:R:336:LYS:HB2	2.27	0.47
25:R:396:LYS:O	25:R:398:ALA:N	2.48	0.47
25:R:413:LYS:O	25:R:416:LYS:N	2.48	0.47
26:S:292:TYR:O	26:S:296:ALA:N	2.48	0.47
26:S:344:PRO:HA	26:S:347:HIS:HB2	1.96	0.47
26:S:392:ILE:HA	26:S:395:ILE:HG12	1.97	0.47
27:T:26:LEU:O	27:T:29:PRO:HD2	2.15	0.47
27:T:87:PRO:O	27:T:91:SER:N	2.47	0.47
27:T:189:ILE:O	27:T:193:THR:N	2.34	0.47
27:T:254:ASP:OD1	27:T:255:GLN:N	2.47	0.47
28:U:283:ARG:NE	29:V:288:LEU:HD13	2.30	0.47
28:U:305:ARG:NH1	28:U:307:LYS:HG2	2.29	0.47
29:V:251:TYR:C	29:V:255:ILE:HG12	2.39	0.47
30:W:17:ARG:NE	30:W:82:GLU:HG2	2.30	0.47
30:W:68:GLU:CD	30:W:69:PHE:H	2.23	0.47
31:X:21:SER:O	31:X:23:LEU:HG	2.15	0.47
33:Z:232:LYS:O	33:Z:236:PHE:N	2.48	0.47
33:Z:312:TYR:HA	33:Z:315:ALA:HB3	1.97	0.47
8:a:197:GLU:OE1	8:a:197:GLU:N	2.40	0.47
9:b:14:PRO:HA	10:c:24:TYR:CD1	2.47	0.47
9:b:142:PHE:HE2	5:j:80:ARG:NH1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:140:TYR:CE2	10:c:225:VAL:HG21	2.50	0.47
10:c:177:GLN:NE2	11:d:53:LYS:HE3	2.29	0.47
11:d:228:GLU:HA	11:d:231:GLN:OE1	2.15	0.47
12:e:47:VAL:HG23	12:e:193:LEU:HD12	1.97	0.47
12:e:93:ARG:HD3	7:l:143:LEU:HB3	1.95	0.47
12:e:225:GLN:HG2	12:e:226:ASP:OD1	2.15	0.47
13:f:186:PRO:HA	13:f:189:LEU:HB2	1.97	0.47
14:g:41:LYS:HE3	14:g:146:ALA:HB3	1.97	0.47
3:h:72:GLN:HB3	4:i:113:LYS:HZ1	1.80	0.47
3:h:106:TYR:O	3:h:109:LYS:HE3	2.15	0.47
3:h:108:ASN:O	3:h:112:LEU:N	2.47	0.47
4:i:95:HIS:CE1	4:i:99:THR:HG21	2.50	0.47
6:k:21:VAL:O	6:k:28:LEU:N	2.47	0.47
6:k:39:SER:OG	6:k:74:GLU:OE2	2.24	0.47
6:k:88:LEU:HA	6:k:91:SER:OG	2.14	0.47
7:l:178:GLY:O	7:l:186:THR:N	2.44	0.47
7:l:203:CYS:HB2	7:l:212:TYR:CZ	2.49	0.47
1:1:113:GLN:HE22	7:l:128:GLN:HG2	1.79	0.47
1:1:212:GLU:HG3	4:4:225:ARG:HD2	1.96	0.47
3:3:184:TRP:CE2	3:h:154:TYR:HB3	2.50	0.47
4:4:35:VAL:C	4:4:41:VAL:HG23	2.40	0.47
4:4:77:THR:O	4:4:81:THR:HG23	2.14	0.47
4:4:178:GLU:HA	4:4:181:ILE:HB	1.97	0.47
5:5:85:GLU:O	5:5:88:THR:HB	2.15	0.47
5:5:186:VAL:HG21	5:5:197:LYS:HE3	1.97	0.47
6:6:142:SER:O	6:6:146:HIS:N	2.44	0.47
7:7:172:MET:H	7:7:192:SER:CB	2.28	0.47
7:7:178:GLY:O	7:7:186:THR:N	2.44	0.47
8:A:92:ASN:HA	14:G:118:GLN:OE1	2.15	0.47
10:C:36:ILE:HG12	10:C:164:SER:CB	2.45	0.47
11:D:4:TYR:O	11:D:125:GLY:HA3	2.14	0.47
12:E:236:THR:HG22	12:E:240:ILE:HD11	1.96	0.47
13:F:13:PHE:N	14:G:23:GLN:HE22	2.13	0.47
13:F:191:LYS:HA	13:F:194:VAL:HB	1.97	0.47
15:H:144:LYS:HG2	15:H:146:VAL:HG12	1.96	0.47
15:H:221:LEU:HD23	15:H:246:ILE:HD13	1.97	0.47
15:H:429:PHE:O	15:H:433:ALA:N	2.39	0.47
16:I:310:GLU:OE1	17:J:270:ARG:NE	2.48	0.47
17:J:29:GLU:HG2	26:S:224:LYS:HG3	1.97	0.47
17:J:75:VAL:HG12	17:J:109:ALA:HA	1.96	0.47
18:K:164:ASN:ND2	18:K:167:PRO:HA	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:272:ASP:O	18:K:273:GLU:C	2.57	0.47
18:K:344:ARG:H	18:K:344:ARG:HH11	1.60	0.47
19:L:101:ILE:HG13	19:L:103:GLN:HE21	1.79	0.47
19:L:109:MET:HE1	19:L:126:ARG:HG2	1.96	0.47
19:L:246:SER:HB3	19:L:280:MET:HG2	1.97	0.47
20:M:178:GLU:H	20:M:237:ALA:CB	2.28	0.47
20:M:220:MET:SD	20:M:349:PHE:HE2	2.38	0.47
20:M:247:ALA:CB	20:M:249:PRO:HD2	2.38	0.47
21:N:244:LYS:O	21:N:248:GLU:N	2.41	0.47
21:N:329:HIS:NE2	21:N:355:TRP:CD2	2.82	0.47
21:N:582:ASP:HA	21:N:585:ARG:HB3	1.96	0.47
21:N:773:MET:N	21:N:869:ASP:HB2	2.30	0.47
21:N:775:CYS:C	21:N:866:TYR:HB2	2.40	0.47
23:P:123:ARG:HB3	23:P:127:GLU:C	2.40	0.47
23:P:123:ARG:HD2	23:P:127:GLU:OE1	2.15	0.47
23:P:137:ALA:HB1	23:P:179:PHE:CE2	2.50	0.47
23:P:147:LYS:HD3	23:P:156:ALA:HA	1.97	0.47
23:P:290:LEU:HD12	23:P:291:LYS:HG2	1.95	0.47
23:P:306:ASN:HA	23:P:310:ARG:CZ	2.44	0.47
24:Q:355:GLU:CD	24:Q:399:VAL:HG23	2.40	0.47
25:R:385:ASN:HB3	25:R:387:ILE:HG22	1.97	0.47
26:S:12:SER:HG	26:S:13:SER:H	1.63	0.47
26:S:251:SER:HA	26:S:254:ILE:HD12	1.96	0.47
26:S:266:SER:HA	26:S:269:GLU:HB2	1.97	0.47
27:T:265:ASP:HA	27:T:268:ILE:HD12	1.97	0.47
28:U:71:ASN:ND2	30:W:64:THR:OG1	2.48	0.47
28:U:114:THR:HG21	28:U:118:PRO:HA	1.96	0.47
28:U:168:GLU:CA	28:U:171:VAL:HB	2.40	0.47
29:V:244:MET:O	29:V:247:ILE:HG23	2.15	0.47
30:W:26:PHE:O	30:W:29:GLN:HB2	2.15	0.47
31:X:12:ALA:HB2	31:X:85:ARG:HH12	1.80	0.47
32:Y:72:ASP:O	32:Y:75:ASN:HB2	2.15	0.47
33:Z:274:SER:O	33:Z:275:GLN:HB2	2.15	0.47
33:Z:348:LEU:HG	33:Z:922:PRO:HD3	1.96	0.47
33:Z:357:ILE:HD13	33:Z:959:HIS:CG	2.47	0.47
33:Z:428:TRP:N	33:Z:458:SER:O	2.45	0.47
10:c:13:PHE:N	11:d:19:GLN:HE22	2.12	0.47
11:d:189:GLU:HG3	11:d:232:TYR:CE1	2.49	0.47
12:e:28:LEU:O	12:e:31:ILE:HB	2.15	0.47
14:g:198:LYS:HA	14:g:243:ALA:HB1	1.97	0.47
4:i:35:VAL:C	4:i:41:VAL:HG23	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:10:GLN:HB2	6:k:151:ASP:HA	1.97	0.47
6:k:153:THR:N	6:k:156:GLU:OE1	2.42	0.47
6:k:183:ILE:N	6:k:190:ARG:O	2.44	0.47
7:l:82:ARG:N	7:l:200:ASP:O	2.37	0.47
7:l:250:VAL:N	7:l:265:ASN:OD1	2.48	0.47
4:4:95:HIS:CE1	4:4:99:THR:HG21	2.50	0.47
1:8:23:PRO:HB3	2:9:140:MET:SD	2.54	0.47
1:8:128:THR:HG22	1:8:144:PHE:HB2	1.97	0.47
2:9:152:VAL:HG23	2:9:233:ILE:HG22	1.96	0.47
2:9:215:ARG:HD3	2:9:248:GLU:O	2.15	0.47
9:B:111:VAL:HG21	9:B:148:TYR:CD2	2.50	0.47
11:D:20:VAL:O	11:D:24:LEU:HG	2.14	0.47
11:D:228:GLU:HA	11:D:231:GLN:OE1	2.15	0.47
12:E:211:LYS:C	12:E:216:ASN:HD21	2.20	0.47
13:F:157:TYR:CE2	14:G:60:VAL:HA	2.50	0.47
14:G:148:LEU:HB3	14:G:160:TYR:O	2.15	0.47
15:H:222:ARG:HA	15:H:226:GLU:HB3	1.97	0.47
15:H:249:TYR:HA	15:H:355:THR:O	2.14	0.47
16:I:236:GLU:C	16:I:238:MET:N	2.71	0.47
18:K:103:ILE:HD12	18:K:107:THR:HG22	1.97	0.47
19:L:219:LEU:HD11	19:L:327:THR:HG22	1.96	0.47
19:L:387:ASN:ND2	20:M:335:PRO:HB3	2.30	0.47
21:N:251:GLU:O	21:N:254:SER:OG	2.30	0.47
22:O:237:PRO:O	22:O:241:THR:HG21	2.15	0.47
23:P:306:ASN:HD21	23:P:345:VAL:HG13	1.80	0.47
23:P:363:LEU:O	23:P:367:GLU:HG3	2.15	0.47
24:Q:383:ASP:CB	24:Q:384:LYS:HD2	2.08	0.47
25:R:213:TYR:HA	25:R:216:ILE:HD12	1.96	0.47
25:R:262:GLU:O	25:R:266:LEU:HG	2.14	0.47
26:S:152:LEU:HB2	26:S:191:HIS:NE2	2.30	0.47
26:S:399:TYR:CE2	26:S:401:LYS:HB2	2.50	0.47
26:S:483:GLU:HA	26:S:486:LYS:HD2	1.96	0.47
28:U:38:LEU:HD22	28:U:87:GLU:O	2.15	0.47
28:U:280:ASN:HA	28:U:283:ARG:HG3	1.96	0.47
29:V:85:ASP:HA	29:V:88:GLN:HG2	1.97	0.47
29:V:140:VAL:O	29:V:153:ILE:HG13	2.15	0.47
33:Z:151:HIS:CG	33:Z:152:GLU:H	2.33	0.47
33:Z:418:ALA:O	33:Z:421:SER:OG	2.32	0.47
33:Z:531:ALA:O	33:Z:535:VAL:HG22	2.15	0.47
33:Z:797:THR:OG1	33:Z:815:MET:HE1	2.15	0.47
33:Z:916:LEU:HB2	33:Z:982:ILE:HG12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:46:LEU:HB2	10:c:214:ALA:HB3	1.97	0.47
10:c:102:TYR:CE1	6:k:83:PHE:HB2	2.49	0.47
14:g:148:LEU:HB3	14:g:160:TYR:O	2.15	0.47
14:g:175:GLU:HA	14:g:178:LYS:HD2	1.96	0.47
14:g:204:HIS:O	14:g:208:LYS:N	2.47	0.47
3:h:82:LEU:HD22	3:h:92:PRO:HG3	1.97	0.47
4:i:42:VAL:HG23	4:i:206:VAL:HA	1.96	0.47
6:k:120:ASP:CG	6:k:122:LEU:HB2	2.40	0.47
1:1:46:THR:HG22	1:1:58:TYR:HA	1.97	0.47
1:1:119:LYS:O	1:1:122:PHE:N	2.43	0.47
1:1:211:THR:OG1	1:1:217:VAL:HG12	2.15	0.47
1:8:179:TYR:HB3	1:8:185:GLY:HA2	1.96	0.47
2:9:39:VAL:O	2:9:90:ILE:HG12	2.14	0.47
2:9:95:HIS:NE2	2:9:99:LEU:HD11	2.30	0.47
8:A:172:GLY:N	8:A:175:GLN:HB2	2.29	0.47
8:A:242:GLU:O	8:A:246:VAL:N	2.41	0.47
12:E:194:LYS:HA	12:E:197:GLU:OE1	2.15	0.47
13:F:186:PRO:HA	13:F:189:LEU:HB2	1.97	0.47
14:G:41:LYS:HE3	14:G:146:ALA:HB3	1.97	0.47
15:H:40:TYR:HA	15:H:43:ALA:HB3	1.96	0.47
15:H:97:LEU:C	16:I:137:GLU:OE2	2.58	0.47
17:J:79:VAL:HG12	17:J:80:SER:H	1.79	0.47
17:J:118:ASP:HA	17:J:120:TYR:CE2	2.50	0.47
17:J:132:PRO:HD3	17:J:141:LYS:NZ	2.30	0.47
17:J:181:GLN:NE2	17:J:287:ASN:OD1	2.48	0.47
17:J:231:ARG:O	17:J:235:VAL:HG23	2.15	0.47
17:J:236:MET:HA	17:J:239:GLU:OE1	2.14	0.47
18:K:85:GLU:OE1	18:K:88:ARG:HB2	2.14	0.47
19:L:171:THR:O	19:L:244:ILE:HA	2.15	0.47
19:L:372:GLY:HA2	19:L:376:PHE:CZ	2.50	0.47
19:L:420:ARG:NH2	14:g:174:ALA:HB2	2.30	0.47
20:M:220:MET:SD	20:M:326:ALA:HB2	2.55	0.47
21:N:111:GLN:H	21:N:111:GLN:CD	2.20	0.47
21:N:141:ILE:O	21:N:145:LEU:N	2.40	0.47
21:N:308:ASN:HB3	21:N:711:ARG:NH1	2.29	0.47
21:N:328:PHE:CE1	21:N:696:LYS:HE2	2.50	0.47
22:O:353:VAL:O	22:O:353:VAL:HG13	2.14	0.47
23:P:147:LYS:HB3	23:P:156:ALA:HB2	1.96	0.47
23:P:181:LEU:O	23:P:184:MET:HB2	2.15	0.47
24:Q:75:ARG:NH1	24:Q:116:PHE:HE2	2.13	0.47
24:Q:82:THR:O	24:Q:86:MET:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:223:GLY:HA3	24:Q:239:PHE:CE1	2.50	0.47
25:R:49:PHE:O	25:R:52:ALA:N	2.48	0.47
25:R:286:LEU:C	25:R:288:SER:N	2.69	0.47
26:S:256:LYS:HG2	26:S:257:LEU:HG	1.96	0.47
26:S:411:LEU:HB2	26:S:419:VAL:HG22	1.96	0.47
28:U:21:HIS:HB3	28:U:33:CYS:SG	2.55	0.47
28:U:121:LEU:HD12	28:U:135:ASP:O	2.14	0.47
29:V:31:SER:HB2	29:V:205:LYS:CE	2.45	0.47
30:W:5:ALA:HB3	30:W:101:ARG:HD2	1.96	0.47
30:W:180:LEU:HD13	30:W:182:TYR:OH	2.15	0.47
33:Z:123:ALA:O	33:Z:126:TYR:HB3	2.14	0.47
33:Z:173:ALA:HA	33:Z:258:PRO:CA	2.43	0.47
33:Z:330:ILE:O	33:Z:341:TYR:CD1	2.68	0.47
33:Z:524:ALA:O	33:Z:565:PHE:HB3	2.15	0.47
10:c:173:GLN:O	10:c:177:GLN:N	2.34	0.47
12:e:194:LYS:HA	12:e:197:GLU:OE1	2.15	0.47
13:f:50:LYS:CB	13:f:59:TYR:HB3	2.43	0.47
14:g:61:PRO:O	14:g:63:LYS:NZ	2.48	0.47
4:i:178:GLU:CD	4:i:178:GLU:N	2.73	0.47
6:k:3:ILE:HD11	6:k:172:MET:SD	2.55	0.47
1:1:76:PHE:CZ	2:2:168:VAL:HG23	2.50	0.46
1:1:107:SER:OG	12:e:103:TYR:O	2.33	0.46
1:1:142:TYR:HB3	1:1:144:PHE:HE1	1.79	0.46
1:1:164:LEU:O	1:1:167:PRO:HD2	2.15	0.46
5:5:183:TRP:CE2	7:1:241:HIS:CE1	3.03	0.46
6:6:39:SER:HB2	6:6:40:PRO:HD2	1.96	0.46
6:6:96:ARG:NE	7:7:166:LYS:O	2.48	0.46
6:6:120:ASP:CG	6:6:122:LEU:HB2	2.40	0.46
1:8:105:ILE:HG13	1:8:142:TYR:CE2	2.50	0.46
1:8:164:LEU:O	1:8:167:PRO:HD2	2.15	0.46
2:9:49:TYR:HB2	2:9:201:THR:O	2.15	0.46
8:A:72:ILE:HA	8:A:82:VAL:HA	1.98	0.46
11:D:148:TYR:HA	11:D:157:SER:O	2.15	0.46
11:D:215:VAL:HA	11:D:221:ILE:HG12	1.96	0.46
12:E:42:THR:OG1	12:E:45:GLY:N	2.38	0.46
12:E:222:ILE:HG13	12:E:227:GLY:C	2.41	0.46
14:G:35:THR:HG21	14:G:66:LYS:HZ3	1.81	0.46
14:G:47:VAL:HA	14:G:218:TRP:HA	1.97	0.46
14:G:61:PRO:O	14:G:63:LYS:NZ	2.48	0.46
15:H:163:VAL:HG12	15:H:164:SER:N	2.22	0.46
16:I:199:LYS:HD2	16:I:273:ARG:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:367:ARG:CD	16:I:370:ARG:HG3	2.45	0.46
17:J:218:LEU:HD12	17:J:268:VAL:HG13	1.97	0.46
17:J:234:PHE:CE2	17:J:238:ARG:HD2	2.50	0.46
17:J:332:SER:O	17:J:337:LEU:HD11	2.15	0.46
18:K:184:ILE:HG21	18:K:226:VAL:HG21	1.97	0.46
18:K:224:LYS:HD3	18:K:236:ARG:NH2	2.30	0.46
19:L:112:LEU:N	19:L:116:LYS:O	2.48	0.46
19:L:302:GLN:O	19:L:306:MET:N	2.40	0.46
21:N:36:TRP:HE3	21:N:68:VAL:HG13	1.80	0.46
21:N:136:ILE:HA	21:N:139:ARG:HB2	1.97	0.46
21:N:149:GLU:HB2	21:N:152:LEU:HD13	1.96	0.46
21:N:172:SER:OG	21:N:173:LYS:HD2	2.14	0.46
21:N:459:ASN:N	21:N:488:CYS:SG	2.70	0.46
21:N:716:GLN:HB3	21:N:719:ASN:CG	2.40	0.46
22:O:81:TYR:C	22:O:85:SER:H	2.23	0.46
22:O:374:ASN:ND2	28:U:197:LEU:HA	2.30	0.46
23:P:48:GLN:HE21	23:P:85:LYS:C	2.19	0.46
23:P:55:SER:OG	23:P:58:VAL:HG23	2.14	0.46
23:P:80:THR:HA	23:P:122:ILE:HD11	1.97	0.46
23:P:304:THR:O	23:P:352:VAL:HG11	2.15	0.46
24:Q:11:ALA:O	24:Q:15:VAL:HG23	2.13	0.46
24:Q:11:ALA:HA	24:Q:23:ALA:HB1	1.96	0.46
25:R:31:PHE:HA	25:R:34:THR:OG1	2.15	0.46
25:R:165:GLY:O	25:R:168:ILE:HB	2.15	0.46
25:R:201:GLY:HA3	25:R:207:ARG:HG2	1.97	0.46
25:R:392:ARG:HH11	25:R:392:ARG:HG3	1.75	0.46
26:S:258:GLU:HA	26:S:272:TYR:OH	2.16	0.46
26:S:266:SER:HA	26:S:269:GLU:OE1	2.16	0.46
26:S:407:ILE:HB	26:S:443:ILE:HD12	1.96	0.46
27:T:104:LYS:HZ2	27:T:169:GLN:CD	2.20	0.46
27:T:104:LYS:O	27:T:107:SER:HB2	2.15	0.46
29:V:88:GLN:HG3	29:V:89:ALA:N	2.30	0.46
29:V:107:TRP:HB2	29:V:138:ALA:HA	1.97	0.46
29:V:109:HIS:HB2	29:V:111:HIS:NE2	2.31	0.46
29:V:139:VAL:HA	29:V:154:ASP:O	2.15	0.46
30:W:180:LEU:HB2	30:W:183:GLU:CB	2.45	0.46
33:Z:197:LYS:O	33:Z:201:LEU:HG	2.15	0.46
33:Z:299:ASP:HA	33:Z:338:HIS:CE1	2.49	0.46
33:Z:534:PHE:HB2	33:Z:573:LEU:HD22	1.96	0.46
12:e:16:SER:O	13:f:24:TYR:HB3	2.15	0.46
13:f:104:ALA:HB3	13:f:107:ARG:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:182:ILE:HG23	3:h:189:GLY:HA2	1.96	0.46
6:k:39:SER:HB2	6:k:40:PRO:HD2	1.96	0.46
7:l:179:TYR:CE1	7:l:257:GLU:HB2	2.50	0.46
1:1:179:TYR:CE1	1:1:188:LYS:HG2	2.49	0.46
2:2:49:TYR:HB2	2:2:201:THR:O	2.15	0.46
2:2:95:HIS:NE2	2:2:99:LEU:HD11	2.30	0.46
2:2:215:ARG:HD3	2:2:248:GLU:O	2.15	0.46
4:4:133:ASP:CG	4:4:135:THR:HG1	2.16	0.46
4:4:142:ILE:HA	4:4:147:SER:O	2.15	0.46
5:5:3:ASP:HB3	5:5:6:SER:HB2	1.97	0.46
5:5:45:HIS:HB2	5:5:50:PHE:CE1	2.50	0.46
6:6:9:VAL:HG22	6:6:12:SER:O	2.15	0.46
6:6:10:GLN:HB2	6:6:151:ASP:HA	1.97	0.46
1:8:47:ARG:HD2	1:8:216:GLN:O	2.15	0.46
1:8:142:TYR:HB3	1:8:144:PHE:HE1	1.79	0.46
1:8:179:TYR:CE1	1:8:188:LYS:HG2	2.49	0.46
8:A:207:ILE:O	8:A:211:ILE:N	2.34	0.46
10:C:85:GLU:HA	10:C:88:ILE:HB	1.97	0.46
10:C:115:LEU:HA	10:C:118:ILE:HD12	1.97	0.46
10:C:122:TYR:HE2	10:C:131:PHE:CZ	2.33	0.46
11:D:184:PRO:O	11:D:186:ALA:N	2.48	0.46
12:E:28:LEU:O	12:E:31:ILE:HB	2.15	0.46
12:E:69:GLU:HB2	12:E:228:PHE:CE1	2.50	0.46
13:F:24:TYR:O	13:F:27:GLU:HB3	2.15	0.46
15:H:243:PRO:HG3	20:M:400:MET:HE1	1.97	0.46
15:H:281:GLN:HB2	15:H:286:GLU:CD	2.40	0.46
16:I:158:SER:O	16:I:183:ILE:HB	2.15	0.46
17:J:270:ARG:O	17:J:273:LEU:N	2.49	0.46
17:J:335:MET:O	17:J:337:LEU:HG	2.15	0.46
17:J:344:ARG:O	17:J:348:GLU:HG3	2.16	0.46
18:K:129:GLU:CA	29:V:274:GLN:H	2.23	0.46
18:K:302:GLN:HG2	18:K:306:PHE:CZ	2.50	0.46
19:L:145:ARG:NH2	19:L:161:ARG:HG3	2.31	0.46
20:M:411:LYS:O	20:M:414:ASP:HB2	2.15	0.46
21:N:34:GLN:NE2	26:S:211:ARG:HB2	2.30	0.46
21:N:348:PHE:HE2	21:N:355:TRP:CE3	2.33	0.46
22:O:371:VAL:O	22:O:374:ASN:HB3	2.15	0.46
22:O:383:LYS:HD2	22:O:387:ARG:NE	2.29	0.46
23:P:94:GLN:OE1	23:P:130:ILE:HD12	2.15	0.46
23:P:123:ARG:HA	23:P:123:ARG:HD3	1.76	0.46
23:P:393:VAL:CG2	24:Q:351:ILE:C	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:407:ASN:C	23:P:409:SER:H	2.23	0.46
24:Q:275:ILE:HD11	24:Q:306:TYR:CD2	2.43	0.46
24:Q:390:LEU:H	24:Q:390:LEU:HG	1.51	0.46
25:R:114:ASN:O	25:R:118:GLN:N	2.33	0.46
25:R:141:TYR:CD2	25:R:150:ALA:HB2	2.50	0.46
25:R:184:GLN:O	25:R:217:HIS:ND1	2.47	0.46
26:S:341:SER:OG	26:S:342:LEU:N	2.48	0.46
27:T:106:ILE:HG13	27:T:110:LEU:HG	1.98	0.46
27:T:144:TYR:O	27:T:148:LEU:HG	2.15	0.46
27:T:258:ASN:O	27:T:261:GLU:HB2	2.15	0.46
28:U:12:PRO:HA	28:U:15:LEU:HD12	1.96	0.46
28:U:57:GLU:N	28:U:67:PHE:O	2.38	0.46
28:U:71:ASN:O	28:U:74:GLU:HB3	2.15	0.46
28:U:189:ARG:HH22	29:V:237:ASN:CG	2.23	0.46
30:W:122:ARG:O	30:W:125:LEU:HB3	2.15	0.46
30:W:164:PRO:HD2	30:W:168:THR:CG2	2.45	0.46
33:Z:405:ASN:HA	33:Z:408:TYR:HD2	1.80	0.46
33:Z:737:ALA:O	33:Z:740:VAL:HB	2.14	0.46
33:Z:767:TYR:CD2	33:Z:772:ILE:HD13	2.48	0.46
33:Z:774:ARG:HD3	33:Z:893:PHE:CD2	2.49	0.46
33:Z:784:SER:N	33:Z:788:PRO:HB3	2.29	0.46
8:a:240:ASN:O	8:a:244:ARG:HG2	2.15	0.46
9:b:12:PHE:HD2	10:c:21:GLN:NE2	2.12	0.46
9:b:40:THR:OG1	9:b:41:ASN:N	2.48	0.46
10:c:122:TYR:HE2	10:c:131:PHE:CZ	2.34	0.46
13:f:171:TYR:CG	13:f:199:GLN:HG3	2.50	0.46
14:g:41:LYS:NZ	14:g:146:ALA:O	2.28	0.46
14:g:47:VAL:HA	14:g:218:TRP:HA	1.97	0.46
14:g:218:TRP:CH2	14:g:224:THR:HG23	2.50	0.46
4:i:156:LEU:C	4:i:160:SER:HB2	2.40	0.46
7:l:243:ASP:CG	7:l:245:TYR:H	2.20	0.46
1:1:128:THR:CG2	1:1:144:PHE:HB2	2.45	0.46
1:1:149:SER:N	7:l:125:ALA:HB2	2.31	0.46
2:2:152:VAL:HG23	2:2:233:ILE:HG22	1.96	0.46
6:6:3:ILE:HD11	6:6:172:MET:SD	2.55	0.46
6:6:10:GLN:HG2	6:6:11:ASP:OD1	2.15	0.46
7:7:110:ILE:HD11	7:7:120:MET:HE3	1.96	0.46
7:7:243:ASP:OD1	7:7:244:ALA:N	2.48	0.46
7:7:285:VAL:HA	5:j:38:ASN:HD21	1.79	0.46
1:8:195:SER:O	1:8:199:VAL:HG23	2.15	0.46
2:9:67:LEU:HD11	3:h:186:GLY:HA2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:40:THR:OG1	9:B:41:ASN:N	2.48	0.46
9:B:88:LYS:O	9:B:92:VAL:HG12	2.16	0.46
12:E:47:VAL:HG23	12:E:193:LEU:HD12	1.97	0.46
13:F:11:VAL:HA	14:G:130:ARG:HB2	1.97	0.46
13:F:51:ARG:O	13:F:60:GLN:N	2.42	0.46
13:F:171:TYR:CG	13:F:199:GLN:HG3	2.50	0.46
15:H:98:GLN:NE2	15:H:193:PRO:HA	2.29	0.46
15:H:382:LEU:HD23	15:H:385:ARG:NH2	2.27	0.46
16:I:196:SER:HB2	16:I:290:LEU:HD22	1.96	0.46
16:I:333:MET:O	16:I:337:LEU:N	2.40	0.46
19:L:149:ASP:O	19:L:153:LEU:HA	2.14	0.46
20:M:379:LEU:HG	20:M:412:HIS:HE1	1.80	0.46
20:M:387:ASN:O	20:M:388:GLY:C	2.59	0.46
21:N:155:GLY:O	21:N:158:LEU:HB3	2.14	0.46
21:N:209:LYS:HB3	21:N:213:PHE:CE2	2.50	0.46
21:N:214:LEU:HD12	21:N:225:LEU:HD21	1.97	0.46
21:N:321:LEU:HB3	21:N:328:PHE:CE2	2.50	0.46
21:N:362:TRP:O	21:N:365:PHE:HB3	2.15	0.46
22:O:65:PHE:O	22:O:69:PHE:N	2.48	0.46
22:O:75:GLN:HG3	22:O:76:LEU:H	1.79	0.46
22:O:83:LEU:HD21	22:O:102:LEU:CB	2.44	0.46
22:O:125:GLY:C	22:O:129:ILE:HG12	2.39	0.46
22:O:289:GLN:HE22	22:O:334:LEU:HD11	1.78	0.46
23:P:36:LEU:HA	23:P:39:LEU:HB3	1.96	0.46
23:P:200:SER:O	23:P:203:ILE:HG22	2.16	0.46
23:P:221:TYR:HE1	23:P:240:TYR:O	1.97	0.46
23:P:429:ILE:HG23	28:U:229:LEU:HD13	1.98	0.46
24:Q:226:HIS:HA	24:Q:229:ASP:OD1	2.15	0.46
24:Q:294:ARG:HB3	24:Q:321:TYR:HD1	1.80	0.46
25:R:350:LEU:CB	25:R:386:GLY:O	2.63	0.46
25:R:412:THR:HA	26:S:298:ARG:NH1	2.30	0.46
26:S:200:GLU:H	26:S:201:ILE:CA	2.28	0.46
26:S:207:ASN:O	26:S:210:LEU:HB3	2.15	0.46
26:S:336:SER:HA	26:S:339:GLN:HE22	1.80	0.46
27:T:200:LEU:N	27:T:233:VAL:O	2.35	0.46
28:U:67:PHE:CE1	30:W:97:THR:HG23	2.50	0.46
28:U:99:LEU:HD11	28:U:137:TYR:CE2	2.50	0.46
28:U:171:VAL:O	28:U:174:LEU:N	2.42	0.46
29:V:28:TYR:CE1	29:V:202:ASP:HB3	2.51	0.46
30:W:53:SER:OG	30:W:60:ARG:HG2	2.15	0.46
30:W:79:THR:HG22	30:W:80:GLN:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:140:ASP:HA	30:W:170:HIS:O	2.15	0.46
33:Z:222:ASP:HA	33:Z:225:LEU:HD12	1.97	0.46
33:Z:585:LEU:CD2	33:Z:603:VAL:CG1	2.92	0.46
33:Z:736:LEU:HD12	33:Z:739:ALA:CB	2.46	0.46
33:Z:776:VAL:O	33:Z:780:MET:HG2	2.14	0.46
33:Z:783:VAL:O	33:Z:788:PRO:N	2.48	0.46
8:a:60:PRO:HG2	8:a:64:LEU:HD11	1.95	0.46
10:c:80:LEU:N	10:c:133:VAL:HG22	2.30	0.46
12:e:147:HIS:HD2	12:e:153:TYR:CG	2.33	0.46
13:f:24:TYR:O	13:f:27:GLU:HB3	2.15	0.46
13:f:154:THR:HA	14:g:64:ASN:OD1	2.14	0.46
4:i:189:GLN:O	4:i:193:TRP:HD1	1.99	0.46
5:j:149:MET:HE2	5:j:173:ASN:HB2	1.96	0.46
7:l:82:ARG:CG	7:l:185:PRO:HB2	2.42	0.46
7:l:243:ASP:OD1	7:l:244:ALA:N	2.48	0.46
1:l:150:TYR:O	7:l:128:GLN:NE2	2.48	0.46
2:2:254:PHE:HA	2:2:256:LYS:HZ3	1.81	0.46
6:6:41:HIS:N	6:6:74:GLU:OE2	2.31	0.46
6:6:143:LEU:HD21	7:l:213:GLY:O	2.15	0.46
13:F:157:TYR:OH	14:G:60:VAL:HG13	2.15	0.46
15:H:77:ALA:HB1	15:H:102:CYS:HA	1.97	0.46
15:H:393:SER:O	15:H:396:MET:N	2.48	0.46
15:H:420:ARG:HD2	16:I:370:ARG:NH1	2.30	0.46
16:I:254:THR:HA	16:I:258:LEU:CD1	2.45	0.46
16:I:391:ILE:HG23	16:I:395:LYS:NZ	2.30	0.46
17:J:71:TYR:HA	18:K:118:TYR:HD1	1.77	0.46
17:J:253:ILE:HA	17:J:295:ASN:CG	2.40	0.46
17:J:268:VAL:O	17:J:272:MET:N	2.46	0.46
19:L:361:PHE:HD2	19:L:362:LYS:HG3	1.80	0.46
20:M:232:ALA:HB1	20:M:243:PHE:HE1	1.80	0.46
21:N:68:VAL:O	21:N:72:LEU:HG	2.16	0.46
21:N:196:THR:OG1	21:N:197:VAL:N	2.48	0.46
21:N:330:THR:O	21:N:333:SER:HB3	2.15	0.46
21:N:536:ILE:O	21:N:540:LEU:HG	2.15	0.46
21:N:726:ASP:OD2	21:N:728:LYS:HB2	2.15	0.46
22:O:140:LYS:C	22:O:142:ASP:N	2.74	0.46
23:P:253:ASP:CG	23:P:255:ALA:HB3	2.41	0.46
23:P:277:GLN:HE22	23:P:344:ARG:HH21	1.64	0.46
23:P:362:LEU:O	23:P:365:LEU:HB2	2.16	0.46
24:Q:149:LYS:HA	24:Q:151:TYR:CZ	2.50	0.46
24:Q:384:LYS:NZ	24:Q:384:LYS:N	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:54:ILE:HG21	25:R:63:TYR:CE2	2.50	0.46
25:R:199:GLU:N	25:R:199:GLU:CD	2.73	0.46
25:R:304:TYR:O	25:R:307:TYR:N	2.48	0.46
25:R:371:PHE:HA	25:R:374:ASN:HB2	1.98	0.46
26:S:385:SER:HB3	26:S:425:ARG:HH21	1.81	0.46
28:U:191:THR:HA	28:U:194:LEU:CD1	2.46	0.46
28:U:283:ARG:CZ	29:V:288:LEU:HB2	2.45	0.46
29:V:136:ALA:O	29:V:157:ARG:HD3	2.15	0.46
30:W:19:GLY:HA2	30:W:24:THR:HA	1.97	0.46
31:X:118:ASP:OD1	31:X:119:LYS:N	2.47	0.46
33:Z:493:LEU:HA	33:Z:496:ALA:CB	2.42	0.46
33:Z:816:GLY:N	33:Z:834:LEU:HD11	2.31	0.46
33:Z:924:LYS:HG3	33:Z:958:ASN:OD1	2.16	0.46
8:a:104:PHE:CD2	8:a:108:TYR:HD2	2.34	0.46
8:a:156:LYS:HB3	8:a:166:TYR:CE1	2.50	0.46
8:a:208:THR:HG22	8:a:212:ASP:OD2	2.15	0.46
9:b:148:TYR:CE1	9:b:158:PRO:HB3	2.47	0.46
10:c:93:ILE:HG23	5:j:69:TYR:OH	2.16	0.46
10:c:123:THR:HG22	11:d:127:ARG:HH21	1.81	0.46
14:g:71:ASP:OD1	14:g:72:ARG:N	2.47	0.46
14:g:172:ALA:O	14:g:175:GLU:N	2.49	0.46
4:i:77:THR:O	4:i:81:THR:HG23	2.14	0.46
4:i:116:LEU:HB3	4:i:144:ALA:O	2.16	0.46
1:l:213:ARG:O	4:4:55:VAL:N	2.32	0.46
2:2:135:GLN:O	2:2:139:LYS:HG3	2.16	0.46
2:2:136:ARG:HH21	2:2:141:ASN:CG	2.23	0.46
6:6:108:ASP:CG	6:6:111:LYS:H	2.24	0.46
6:6:120:ASP:OD1	6:6:124:THR:N	2.31	0.46
6:6:162:LYS:NZ	6:6:198:GLN:H	2.14	0.46
6:6:166:GLN:HA	6:6:169:GLU:HB2	1.98	0.46
7:7:220:LYS:H	7:7:223:LEU:HD13	1.81	0.46
8:A:65:ASP:N	14:G:159:GLY:O	2.40	0.46
8:A:104:PHE:CD2	8:A:108:TYR:HD2	2.34	0.46
8:A:240:ASN:O	8:A:244:ARG:HG2	2.15	0.46
11:D:53:LYS:C	11:D:55:GLN:H	2.23	0.46
12:E:221:CYS:N	12:E:229:LYS:O	2.29	0.46
13:F:19:LEU:HD11	14:G:130:ARG:HD2	1.97	0.46
13:F:195:GLU:O	13:F:199:GLN:HG2	2.16	0.46
15:H:331:ARG:NH1	15:H:334:LEU:HB3	2.31	0.46
15:H:331:ARG:HD3	20:M:285:ALA:CB	2.46	0.46
15:H:331:ARG:NE	20:M:249:PRO:HD3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:385:ARG:HB3	15:H:389:PHE:CZ	2.51	0.46
15:H:452:SER:O	15:H:455:LYS:HG3	2.15	0.46
16:I:317:LYS:HG3	16:I:318:ARG:O	2.15	0.46
17:J:115:LEU:HD12	17:J:121:MET:C	2.40	0.46
18:K:68:ILE:O	18:K:71:GLU:N	2.48	0.46
18:K:98:GLN:NE2	18:K:256:ASP:OD2	2.49	0.46
18:K:122:ILE:HG13	18:K:123:LEU:O	2.15	0.46
18:K:179:MET:O	18:K:183:GLU:N	2.44	0.46
18:K:270:PHE:CG	18:K:271:ILE:N	2.83	0.46
18:K:347:ARG:O	18:K:351:LEU:N	2.46	0.46
18:K:410:ALA:O	18:K:414:GLN:N	2.48	0.46
19:L:74:LEU:HD13	20:M:15:ASP:OD2	2.15	0.46
19:L:334:ASP:OD2	19:L:336:ALA:HB3	2.16	0.46
20:M:136:ASP:HB2	20:M:139:LYS:HG3	1.98	0.46
21:N:299:TYR:CZ	21:N:303:LEU:HD21	2.51	0.46
21:N:525:ASN:HB2	21:N:554:THR:HG23	1.97	0.46
21:N:656:ALA:O	21:N:660:LEU:HG	2.15	0.46
21:N:710:GLY:C	21:N:712:ASN:H	2.23	0.46
22:O:81:TYR:O	22:O:84:ALA:N	2.29	0.46
22:O:140:LYS:HZ3	22:O:142:ASP:HA	1.75	0.46
22:O:173:SER:C	22:O:176:SER:HG	2.17	0.46
22:O:280:LEU:HA	22:O:283:HIS:CG	2.50	0.46
23:P:133:GLU:OE1	23:P:136:ARG:HG3	2.16	0.46
23:P:208:PHE:HD1	23:P:212:LYS:HD3	1.81	0.46
23:P:371:LEU:HD13	23:P:379:TYR:HE2	1.81	0.46
24:Q:79:PRO:O	24:Q:82:THR:HB	2.15	0.46
24:Q:174:LEU:HA	24:Q:177:VAL:HG12	1.98	0.46
24:Q:247:HIS:CE1	24:Q:289:GLU:HG2	2.49	0.46
24:Q:409:TYR:HE2	25:R:402:LEU:HB2	1.81	0.46
25:R:264:THR:HA	25:R:267:LYS:HG2	1.96	0.46
25:R:276:LEU:C	25:R:280:ILE:HG23	2.40	0.46
26:S:197:SER:O	26:S:198:SER:CB	2.64	0.46
26:S:241:PHE:HE2	26:S:253:PHE:HE2	1.63	0.46
27:T:213:ASN:HB3	27:T:216:GLU:CG	2.41	0.46
28:U:132:LEU:HB3	28:U:134:THR:HB	1.98	0.46
29:V:50:MET:HE3	29:V:71:MET:HG3	1.98	0.46
29:V:93:ASP:O	29:V:97:GLN:HG2	2.15	0.46
29:V:206:THR:HG21	29:V:208:LYS:HB3	1.98	0.46
33:Z:106:TRP:HB2	33:Z:140:LEU:CD2	2.38	0.46
33:Z:397:ASP:O	33:Z:400:ILE:N	2.48	0.46
33:Z:509:LEU:HA	33:Z:512:ILE:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:510:LEU:HD13	33:Z:545:SER:HB3	1.97	0.46
33:Z:805:LEU:O	33:Z:808:SER:HB3	2.16	0.46
33:Z:884:THR:CG2	33:Z:903:MET:HB2	2.37	0.46
33:Z:962:ARG:O	33:Z:962:ARG:HG3	2.15	0.46
10:c:12:ILE:HG22	11:d:8:LEU:HD22	1.96	0.46
10:c:38:ILE:HG12	10:c:162:ALA:HB1	1.96	0.46
10:c:177:GLN:HA	11:d:54:LEU:HD22	1.97	0.46
12:e:101:LEU:HD13	7:l:136:SER:OG	2.16	0.46
12:e:168:ASN:N	13:f:56:LEU:O	2.33	0.46
13:f:121:GLN:CG	14:g:130:ARG:O	2.64	0.46
4:i:32:ILE:O	4:i:156:LEU:N	2.40	0.46
4:i:142:ILE:HA	4:i:147:SER:O	2.15	0.46
5:j:98:ARG:O	5:j:99:ARG:C	2.59	0.46
6:k:10:GLN:HG2	6:k:11:ASP:OD1	2.15	0.46
6:k:165:VAL:O	6:k:169:GLU:HG3	2.16	0.46
7:l:84:GLN:HA	7:l:221:TRP:CE2	2.51	0.46
7:l:275:VAL:O	7:l:279:GLU:N	2.45	0.46
1:1:128:THR:HG22	1:1:144:PHE:HB2	1.97	0.46
6:6:165:VAL:O	6:6:169:GLU:HG3	2.16	0.46
8:A:165:GLY:HA3	9:B:60:THR:HG21	1.98	0.46
9:B:49:LYS:CG	9:B:210:GLU:HB2	2.45	0.46
11:D:37:LYS:CB	11:D:42:VAL:HG22	2.45	0.46
11:D:158:SER:OG	12:E:60:GLU:HB2	2.16	0.46
13:F:80:ASP:HB3	13:F:128:TYR:HB3	1.98	0.46
15:H:106:ILE:HG12	20:M:74:GLN:OE1	2.16	0.46
15:H:398:VAL:N	15:H:437:VAL:HG12	2.30	0.46
16:I:132:SER:HB3	16:I:178:HIS:CE1	2.49	0.46
16:I:242:PRO:HG3	16:I:346:ARG:HA	1.95	0.46
17:J:134:VAL:HB	18:K:280:LYS:HE3	1.96	0.46
17:J:142:VAL:HG23	17:J:209:LYS:HD2	1.98	0.46
17:J:169:LYS:HE2	17:J:206:THR:HA	1.97	0.46
18:K:253:MET:O	18:K:256:ASP:N	2.48	0.46
18:K:291:GLU:O	18:K:294:ARG:N	2.48	0.46
19:L:170:MET:HE1	19:L:269:TYR:HD2	1.80	0.46
19:L:199:LEU:O	19:L:202:LYS:N	2.48	0.46
19:L:232:ALA:HB1	19:L:243:PHE:HE1	1.80	0.46
19:L:276:CYS:HB2	19:L:321:THR:OG1	2.16	0.46
19:L:306:MET:HB2	19:L:306:MET:HE3	1.57	0.46
19:L:352:PRO:HD2	19:L:386:PHE:O	2.15	0.46
19:L:411:ASN:OD1	19:L:413:ASP:HB2	2.15	0.46
20:M:274:ALA:CB	20:M:320:ARG:HB3	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:211:PHE:HA	21:N:225:LEU:CD2	2.45	0.46
21:N:451:GLY:O	21:N:455:MET:N	2.48	0.46
21:N:566:SER:HA	21:N:569:LYS:HB3	1.97	0.46
22:O:330:ARG:HD3	22:O:333:SER:O	2.16	0.46
23:P:263:HIS:ND1	23:P:328:ALA:HB3	2.31	0.46
24:Q:8:LEU:O	24:Q:12:ARG:N	2.41	0.46
24:Q:164:GLU:HG3	24:Q:169:ASP:HB3	1.96	0.46
24:Q:223:GLY:HA3	24:Q:239:PHE:CZ	2.51	0.46
24:Q:300:LYS:HE2	24:Q:304:GLU:OE2	2.16	0.46
24:Q:302:VAL:HG13	24:Q:335:PHE:CE1	2.27	0.46
25:R:338:TYR:OH	25:R:364:LEU:HD11	2.15	0.46
25:R:373:PRO:C	25:R:375:LYS:N	2.73	0.46
26:S:181:ALA:HA	26:S:184:TRP:HB2	1.97	0.46
26:S:264:VAL:HB	26:S:269:GLU:OE2	2.16	0.46
27:T:147:LYS:O	27:T:151:TRP:HD1	1.98	0.46
27:T:199:PHE:HA	27:T:234:TYR:HA	1.97	0.46
27:T:220:PHE:HA	27:T:223:GLU:HB2	1.98	0.46
28:U:104:LEU:O	28:U:107:ASN:HB2	2.16	0.46
28:U:132:LEU:N	29:V:215:ASN:HD21	2.14	0.46
29:V:53:MET:HE1	29:V:139:VAL:HG21	1.97	0.46
30:W:177:GLY:O	30:W:179:ARG:N	2.41	0.46
33:Z:244:ARG:NE	33:Z:248:TYR:HE2	2.14	0.46
33:Z:247:GLN:HG3	33:Z:284:LEU:CD2	2.45	0.46
33:Z:250:VAL:HG11	33:Z:293:MET:HE1	1.98	0.46
33:Z:272:TYR:CG	33:Z:277:GLU:HB3	2.51	0.46
33:Z:387:ASN:HD22	33:Z:400:ILE:HD11	1.81	0.46
33:Z:483:THR:O	33:Z:487:SER:OG	2.18	0.46
33:Z:765:MET:HB2	33:Z:776:VAL:HG11	1.97	0.46
33:Z:923:ILE:N	33:Z:959:HIS:CE1	2.80	0.46
33:Z:985:LYS:CG	33:Z:991:GLU:HG2	2.45	0.46
9:b:5:TYR:OH	14:g:127:ASN:CG	2.58	0.46
9:b:244:ASN:HA	9:b:247:LEU:HB2	1.98	0.46
10:c:85:GLU:HA	10:c:88:ILE:HB	1.97	0.46
12:e:168:ASN:OD1	13:f:56:LEU:HA	2.15	0.46
13:f:157:TYR:OH	14:g:61:PRO:HD2	2.15	0.46
14:g:109:ILE:HG12	14:g:142:ASP:CG	2.41	0.46
3:h:88:GLN:HB3	3:h:89:TYR:CD1	2.50	0.46
5:j:16:THR:OG1	5:j:134:LYS:O	2.21	0.46
6:k:108:ASP:CG	6:k:111:LYS:H	2.24	0.46
6:k:146:HIS:HD2	6:k:147:HIS:CD2	2.33	0.46
6:k:162:LYS:NZ	6:k:198:GLN:H	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:198:GLU:O	1:1:202:LEU:HG	2.16	0.46
5:5:161:GLU:H	5:5:161:GLU:CD	2.20	0.46
7:7:140:LEU:HA	7:7:143:LEU:HD12	1.96	0.46
1:8:48:ASN:OD1	1:8:49:ILE:N	2.49	0.46
8:A:73:PHE:CE2	8:A:90:ALA:HB1	2.51	0.46
8:A:156:LYS:HB3	8:A:166:TYR:CE1	2.50	0.46
12:E:112:LEU:O	12:E:116:VAL:HG23	2.15	0.46
14:G:109:ILE:HG12	14:G:142:ASP:HB3	1.98	0.46
14:G:160:TYR:HB3	14:G:162:GLY:O	2.16	0.46
15:H:144:LYS:HZ3	15:H:155:PHE:HE2	1.62	0.46
15:H:376:GLU:CD	15:H:378:SER:OG	2.59	0.46
16:I:197:VAL:HG11	16:I:278:GLU:HB3	1.98	0.46
18:K:49:PHE:HD1	21:N:152:LEU:H	1.63	0.46
18:K:63:LEU:HD22	21:N:565:ASN:OD1	2.16	0.46
18:K:74:HIS:C	18:K:78:GLU:HG2	2.40	0.46
18:K:96:ILE:HG13	19:L:128:ILE:HG13	1.96	0.46
18:K:177:LEU:HB2	18:K:181:LYS:HG3	1.97	0.46
19:L:229:THR:HG21	20:M:313:ASP:OD2	2.16	0.46
21:N:207:LEU:C	21:N:210:SER:HG	2.15	0.46
21:N:771:PHE:CE2	21:N:773:MET:HA	2.51	0.46
21:N:779:GLU:HB3	21:N:782:PHE:HD1	1.81	0.46
22:O:86:LEU:O	22:O:89:SER:OG	2.20	0.46
22:O:187:SER:OG	22:O:188:PHE:N	2.48	0.46
23:P:53:ALA:O	23:P:54:SER:OG	2.33	0.46
23:P:438:ILE:C	23:P:441:GLY:H	2.23	0.46
24:Q:116:PHE:CE2	24:Q:120:LYS:HE3	2.51	0.46
24:Q:227:CYS:HB3	24:Q:334:HIS:CE1	2.46	0.46
24:Q:275:ILE:O	24:Q:279:LYS:N	2.31	0.46
24:Q:302:VAL:CG2	24:Q:335:PHE:HZ	1.97	0.46
25:R:27:SER:OG	25:R:180:PHE:O	2.31	0.46
25:R:130:GLN:NE2	25:R:160:LYS:HE3	2.31	0.46
25:R:149:ASN:HA	25:R:152:LYS:HE2	1.98	0.46
25:R:236:ALA:HB2	25:R:246:TYR:CE1	2.50	0.46
25:R:400:TYR:CD2	26:S:457:PRO:CB	2.99	0.46
26:S:144:LEU:O	26:S:146:LEU:N	2.47	0.46
26:S:184:TRP:O	26:S:187:ILE:HB	2.16	0.46
27:T:34:LEU:HD22	27:T:39:LEU:HD12	1.97	0.46
27:T:129:LEU:HD11	27:T:135:ASN:HD22	1.80	0.46
27:T:177:PHE:O	27:T:181:LEU:N	2.34	0.46
28:U:36:VAL:HB	28:U:52:PHE:HB2	1.97	0.46
29:V:108:TYR:O	29:V:109:HIS:ND1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:23:ARG:HG3	30:W:27:GLU:HG3	1.98	0.46
30:W:32:SER:HA	30:W:182:TYR:HB3	1.97	0.46
9:b:9:LEU:HD12	9:b:127:VAL:O	2.16	0.46
9:b:49:LYS:CG	9:b:210:GLU:HB2	2.45	0.46
9:b:139:HIS:HA	9:b:144:GLY:O	2.16	0.46
9:b:160:LYS:HB3	9:b:179:TRP:CZ2	2.51	0.46
10:c:134:SER:OG	10:c:152:ASN:HA	2.16	0.46
10:c:184:MET:HE1	10:c:192:LEU:HD13	1.98	0.46
11:d:12:SER:O	12:e:26:TYR:HB3	2.16	0.46
11:d:37:LYS:CB	11:d:42:VAL:HG22	2.45	0.46
12:e:15:PHE:HA	12:e:21:LEU:HD23	1.98	0.46
12:e:156:PHE:HD1	12:e:166:ARG:HA	1.79	0.46
14:g:183:HIS:ND1	14:g:185:GLU:OE2	2.45	0.46
3:h:185:ASP:HB3	3:h:188:SER:HB2	1.98	0.46
5:j:186:VAL:HG21	5:j:197:LYS:HE3	1.97	0.46
6:k:166:GLN:HA	6:k:169:GLU:HB2	1.98	0.46
7:l:82:ARG:NE	7:l:185:PRO:O	2.49	0.46
2:2:93:MET:HA	2:2:96:ILE:HD12	1.97	0.46
2:2:162:TYR:CG	2:2:163:VAL:N	2.84	0.46
3:3:159:LYS:HG3	3:h:156:TYR:CE1	2.51	0.46
3:3:196:VAL:O	3:3:202:VAL:HA	2.16	0.46
6:6:7:ILE:HD12	6:6:129:PRO:O	2.16	0.46
6:6:82:SER:CB	10:C:103:ASN:HD22	2.28	0.46
6:6:138:PHE:HA	7:l:210:PHE:CZ	2.50	0.46
7:7:96:THR:HA	7:7:102:ALA:N	2.24	0.46
2:9:93:MET:HA	2:9:96:ILE:HD12	1.97	0.46
2:9:135:GLN:O	2:9:139:LYS:HG3	2.16	0.46
8:A:20:SER:HB3	8:A:26:TYR:HE2	1.78	0.46
8:A:157:THR:HG22	8:A:163:TYR:HB3	1.98	0.46
13:F:11:VAL:O	14:G:130:ARG:CG	2.47	0.46
14:G:45:GLY:HA2	14:G:146:ALA:HB2	1.97	0.46
14:G:75:GLY:HA3	14:G:228:HIS:CD2	2.51	0.46
14:G:130:ARG:C	14:G:131:PRO:O	2.58	0.46
15:H:58:ASP:O	15:H:59:ILE:C	2.59	0.46
15:H:105:ILE:HD13	15:H:169:GLU:CD	2.39	0.46
15:H:157:VAL:HG21	15:H:168:ILE:HG21	1.97	0.46
15:H:194:SER:O	15:H:197:MET:N	2.49	0.46
15:H:271:PHE:HA	15:H:305:ILE:HB	1.98	0.46
16:I:280:ILE:CD1	16:I:282:LYS:HD3	2.46	0.46
16:I:427:GLY:CA	17:J:177:LEU:HD21	2.43	0.46
18:K:81:ARG:HH21	21:N:584:ARG:NH1	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:134:SER:C	18:K:259:ARG:HH12	2.24	0.46
18:K:273:GLU:HA	18:K:317:ALA:O	2.16	0.46
19:L:105:ILE:HD13	19:L:147:THR:HA	1.98	0.46
19:L:163:THR:O	19:L:164:ASP:HB3	2.16	0.46
19:L:218:VAL:HG23	19:L:324:ILE:HA	1.97	0.46
19:L:248:ALA:HB1	19:L:286:ILE:HG23	1.98	0.46
19:L:306:MET:O	19:L:310:THR:N	2.32	0.46
21:N:17:GLN:CD	27:T:32:ILE:HD11	2.40	0.46
21:N:83:LEU:HD22	21:N:132:LYS:HB2	1.98	0.46
21:N:114:SER:O	21:N:118:THR:N	2.48	0.46
21:N:135:SER:O	21:N:139:ARG:N	2.29	0.46
21:N:463:TYR:HD1	21:N:485:MET:HB3	1.81	0.46
21:N:658:ILE:O	21:N:662:MET:HG3	2.16	0.46
21:N:698:GLY:O	21:N:702:ALA:N	2.24	0.46
21:N:727:THR:O	21:N:731:VAL:HG23	2.15	0.46
21:N:781:ALA:H	21:N:878:GLN:NE2	2.07	0.46
22:O:154:GLU:HB2	22:O:171:PHE:CZ	2.50	0.46
22:O:239:MET:HA	22:O:242:ILE:HG12	1.96	0.46
22:O:326:HIS:O	22:O:330:ARG:HG2	2.15	0.46
23:P:393:VAL:CG2	24:Q:352:GLU:O	2.58	0.46
23:P:417:HIS:HA	23:P:420:ASP:OD2	2.16	0.46
24:Q:408:THR:HA	29:V:255:ILE:HD11	1.98	0.46
25:R:383:ARG:N	26:S:402:ILE:HD12	2.28	0.46
26:S:4:THR:HA	26:S:7:MET:HB2	1.97	0.46
26:S:197:SER:C	26:S:199:GLU:H	2.24	0.46
26:S:362:SER:HA	26:S:365:THR:HB	1.98	0.46
26:S:415:SER:OG	26:S:418:THR:OG1	2.28	0.46
26:S:453:ASP:HB2	28:U:267:VAL:O	2.16	0.46
27:T:52:LEU:HA	27:T:56:MET:CG	2.44	0.46
27:T:75:PHE:O	27:T:78:PHE:HB3	2.15	0.46
27:T:108:LEU:O	27:T:112:ASN:N	2.44	0.46
28:U:284:SER:O	28:U:288:PHE:N	2.37	0.46
29:V:71:MET:HE2	29:V:84:ASP:H	1.81	0.46
30:W:107:HIS:HE1	30:W:138:ALA:N	2.14	0.46
31:X:13:GLY:HA2	31:X:50:TRP:NE1	2.30	0.46
31:X:110:PRO:HA	31:X:114:LEU:HD23	1.98	0.46
33:Z:173:ALA:N	33:Z:258:PRO:HG3	2.31	0.46
33:Z:233:LEU:CD2	33:Z:253:VAL:HG13	2.44	0.46
33:Z:271:ILE:O	33:Z:273:LEU:N	2.48	0.46
33:Z:282:ILE:HA	33:Z:285:ALA:HB3	1.98	0.46
33:Z:780:MET:CE	33:Z:789:GLN:N	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:823:ASN:HA	33:Z:831:LEU:CD1	2.46	0.46
8:a:39:ASN:OD1	8:a:173:PRO:HG2	2.16	0.46
8:a:145:SER:HA	8:a:228:ALA:HB1	1.97	0.46
8:a:211:ILE:O	8:a:215:GLY:N	2.49	0.46
11:d:148:TYR:HA	11:d:157:SER:O	2.15	0.46
12:e:69:GLU:HB2	12:e:228:PHE:CE1	2.50	0.46
12:e:179:ALA:O	12:e:183:LEU:HG	2.16	0.46
13:f:157:TYR:CZ	14:g:60:VAL:HG13	2.51	0.46
4:i:178:GLU:HA	4:i:181:ILE:HB	1.97	0.46
5:j:11:ILE:HG21	5:j:142:ALA:H	1.80	0.46
5:j:37:SER:HB3	5:j:40:PHE:HB2	1.98	0.46
6:k:7:ILE:HD12	6:k:129:PRO:O	2.16	0.46
6:k:37:GLN:HA	6:k:43:LEU:HD12	1.98	0.46
6:k:146:HIS:HD2	6:k:147:HIS:CE1	2.33	0.46
2:2:226:ARG:HG2	2:2:246:GLN:HG2	1.97	0.46
1:8:198:GLU:O	1:8:202:LEU:HG	2.16	0.46
10:C:209:ASP:N	10:C:209:ASP:OD1	2.48	0.46
11:D:197:ARG:O	11:D:201:GLU:HG2	2.16	0.46
12:E:15:PHE:HA	12:E:21:LEU:HD23	1.98	0.46
12:E:73:HIS:CD2	12:E:74:ILE:HG13	2.51	0.46
12:E:119:LEU:HA	12:E:122:ARG:HD2	1.98	0.46
12:E:122:ARG:HA	12:E:132:ARG:NE	2.27	0.46
14:G:13:SER:HB3	14:G:126:TYR:CA	2.46	0.46
15:H:61:ALA:HA	15:H:64:LYS:HB2	1.98	0.46
15:H:421:SER:HB3	16:I:369:GLY:HA2	1.97	0.46
16:I:203:SER:HA	16:I:265:ASN:HA	1.98	0.46
16:I:279:LEU:HD12	16:I:314:ILE:HD13	1.98	0.46
16:I:288:PRO:O	16:I:292:ARG:HG3	2.16	0.46
16:I:411:LYS:HG2	16:I:447:LYS:HD2	1.97	0.46
16:I:428:LEU:HA	16:I:431:LEU:HD12	1.98	0.46
17:J:168:VAL:HA	17:J:287:ASN:CG	2.41	0.46
18:K:103:ILE:N	18:K:108:GLY:HA2	2.27	0.46
18:K:352:ILE:O	18:K:355:THR:HB	2.16	0.46
19:L:111:GLU:OE2	19:L:114:GLU:HA	2.16	0.46
19:L:122:SER:HG	20:M:126:THR:HG1	1.23	0.46
19:L:220:LEU:HB3	19:L:228:LYS:HE3	1.97	0.46
19:L:228:LYS:NZ	19:L:328:ASN:HA	2.30	0.46
20:M:12:LEU:HA	20:M:15:ASP:HB2	1.97	0.46
20:M:267:PHE:HB2	20:M:311:GLN:CD	2.41	0.46
20:M:373:ASP:C	20:M:412:HIS:HB2	2.41	0.46
21:N:36:TRP:CB	21:N:68:VAL:HG22	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:62:ALA:HB1	21:N:81:TYR:HB3	1.98	0.46
21:N:716:GLN:HB3	21:N:719:ASN:OD1	2.15	0.46
21:N:762:ARG:C	21:N:764:SER:H	2.23	0.46
23:P:12:ASP:C	23:P:61:LYS:HZ3	2.23	0.46
23:P:231:LYS:HZ3	23:P:236:GLU:CD	2.21	0.46
23:P:307:GLU:CD	23:P:310:ARG:HE	2.23	0.46
23:P:409:SER:N	23:P:410:GLN:OE1	2.48	0.46
23:P:422:LEU:HB3	23:P:426:ILE:HG12	1.98	0.46
24:Q:9:GLU:O	24:Q:13:ARG:HG3	2.16	0.46
24:Q:31:LEU:HB3	24:Q:42:ALA:O	2.16	0.46
24:Q:230:LYS:O	24:Q:231:ASP:HB2	2.15	0.46
24:Q:255:TYR:OH	24:Q:291:TYR:CE2	2.67	0.46
25:R:186:TYR:N	25:R:186:TYR:CD1	2.83	0.46
25:R:321:TYR:O	25:R:325:HIS:HD2	1.98	0.46
25:R:381:ILE:CG2	26:S:398:THR:CB	2.93	0.46
26:S:182:LYS:HG2	26:S:186:TYR:HB2	1.97	0.46
26:S:267:SER:O	26:S:271:ARG:N	2.30	0.46
26:S:276:LEU:HA	26:S:279:ILE:HG12	1.98	0.46
26:S:379:LEU:HD23	26:S:380:CYS:H	1.81	0.46
29:V:36:LYS:HE2	29:V:69:PHE:HA	1.96	0.46
29:V:112:PRO:HA	29:V:142:ASP:OD1	2.16	0.46
30:W:6:THR:O	30:W:49:VAL:HA	2.16	0.46
31:X:76:VAL:HG21	31:X:90:VAL:HB	1.96	0.46
33:Z:138:ARG:HG3	33:Z:203:LEU:CD1	2.45	0.46
33:Z:336:SER:O	33:Z:340:LEU:N	2.49	0.46
33:Z:751:ASP:C	33:Z:753:GLY:N	2.73	0.46
8:a:242:GLU:O	8:a:246:VAL:HG23	2.16	0.46
9:b:96:SER:O	9:b:100:ILE:HD12	2.16	0.46
12:e:19:GLY:O	13:f:28:ALA:HB2	2.16	0.46
12:e:73:HIS:CD2	12:e:74:ILE:HG13	2.51	0.46
12:e:112:LEU:O	12:e:116:VAL:HG23	2.15	0.46
13:f:121:GLN:HA	14:g:130:ARG:HB3	1.97	0.46
14:g:75:GLY:HA3	14:g:228:HIS:CD2	2.51	0.46
3:h:20:THR:CB	3:h:52:LYS:HZ3	2.23	0.46
5:j:3:ASP:HB3	5:j:6:SER:HB2	1.97	0.46
5:j:85:GLU:OE1	5:j:85:GLU:N	2.34	0.46
6:k:9:VAL:HG22	6:k:12:SER:O	2.15	0.46
6:k:179:VAL:H	6:k:196:GLN:NE2	2.13	0.46
1:l:47:ARG:HD2	1:l:216:GLN:O	2.15	0.46
1:l:149:SER:HB2	7:l:125:ALA:N	2.31	0.46
1:l:179:TYR:HE1	1:l:188:LYS:HG2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:121:GLU:CD	2:2:122:PRO:HD2	2.41	0.46
5:5:70:LYS:NZ	5:5:94:SER:OG	2.49	0.46
6:6:117:TYR:CD1	6:6:127:GLU:HB2	2.51	0.46
1:8:67:ASP:CG	1:8:102:LYS:HG3	2.41	0.46
1:8:240:ARG:HB2	4:i:193:TRP:CZ3	2.50	0.46
9:B:160:LYS:HB3	9:B:179:TRP:CZ2	2.51	0.46
11:D:37:LYS:HB2	11:D:145:PRO:CB	2.45	0.46
12:E:147:HIS:HD2	12:E:153:TYR:CG	2.34	0.46
14:G:109:ILE:HG12	14:G:142:ASP:CG	2.41	0.46
14:G:151:LEU:HA	14:G:157:TYR:HB3	1.97	0.46
14:G:172:ALA:O	14:G:175:GLU:N	2.49	0.46
15:H:102:CYS:SG	15:H:173:ARG:HB2	2.56	0.46
15:H:223:GLU:OE2	20:M:400:MET:HB3	2.15	0.46
15:H:278:GLU:HB3	15:H:290:MET:HE1	1.97	0.46
15:H:310:GLU:OE2	16:I:338:ASN:ND2	2.49	0.46
15:H:381:ASP:O	15:H:385:ARG:HG3	2.15	0.46
16:I:207:SER:HB3	16:I:265:ASN:ND2	2.31	0.46
16:I:252:PRO:HD2	17:J:306:ARG:CZ	2.46	0.46
16:I:283:TYR:HB2	17:J:221:LYS:C	2.41	0.46
17:J:133:LEU:HD23	17:J:134:VAL:O	2.16	0.46
18:K:77:ARG:HH12	21:N:577:SER:C	2.25	0.46
18:K:85:GLU:C	18:K:88:ARG:H	2.24	0.46
18:K:404:GLN:O	18:K:408:GLU:HG2	2.16	0.46
19:L:107:GLU:HA	19:L:144:VAL:O	2.16	0.46
19:L:216:LYS:HG3	19:L:341:GLY:H	1.81	0.46
19:L:400:PHE:HE2	20:M:345:ARG:HD3	1.81	0.46
20:M:116:ALA:HB1	20:M:128:PHE:HE1	1.81	0.46
21:N:171:LYS:O	21:N:174:LEU:HB2	2.15	0.46
21:N:665:ILE:O	21:N:667:GLN:HG3	2.16	0.46
21:N:746:ALA:HB1	21:N:749:LEU:HD12	1.98	0.46
21:N:762:ARG:HB3	21:N:764:SER:H	1.81	0.46
22:O:218:SER:HB2	22:O:251:LEU:HD13	1.96	0.46
22:O:243:VAL:HG12	22:O:248:TYR:CB	2.39	0.46
23:P:133:GLU:CD	23:P:167:THR:HB	2.40	0.46
23:P:204:LEU:HG	23:P:217:LYS:NZ	2.31	0.46
23:P:221:TYR:CE1	23:P:241:LEU:HA	2.51	0.46
23:P:262:SER:O	23:P:266:TYR:HB2	2.16	0.46
24:Q:202:ARG:NH1	24:Q:218:LEU:HB3	2.31	0.46
25:R:372:ILE:HG21	26:S:398:THR:OG1	2.16	0.46
25:R:402:LEU:HD22	25:R:405:LYS:HE3	1.97	0.46
26:S:28:GLU:O	26:S:32:GLN:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:180:ASN:HB3	26:S:183:LEU:HB2	1.97	0.46
26:S:302:HIS:ND1	26:S:305:LYS:HB2	2.31	0.46
26:S:395:ILE:HG22	26:S:395:ILE:O	2.16	0.46
26:S:401:LYS:HE2	26:S:444:GLU:HG2	1.97	0.46
26:S:451:ILE:O	26:S:451:ILE:HG13	2.16	0.46
26:S:464:ARG:HH12	28:U:277:TYR:C	2.24	0.46
27:T:111:LEU:HD11	27:T:144:TYR:HD2	1.79	0.46
27:T:151:TRP:HZ2	27:T:159:LYS:HE3	1.80	0.46
27:T:164:LEU:HA	27:T:164:LEU:HD23	1.62	0.46
27:T:193:THR:O	27:T:197:TYR:N	2.48	0.46
27:T:239:SER:HB3	27:T:241:GLU:OE2	2.15	0.46
28:U:32:ARG:HA	28:U:95:SER:HB2	1.98	0.46
28:U:32:ARG:NH2	28:U:100:ARG:HB2	2.30	0.46
28:U:55:PRO:HD2	28:U:72:TYR:CE2	2.51	0.46
28:U:105:LYS:O	28:U:109:LEU:HG	2.15	0.46
29:V:37:MET:HG3	29:V:68:VAL:HG11	1.98	0.46
29:V:249:GLU:C	29:V:253:LYS:HZ3	2.24	0.46
29:V:276:PRO:O	29:V:280:LEU:HD11	2.16	0.46
30:W:8:LEU:HD11	30:W:113:PHE:CE2	2.51	0.46
31:X:47:ASP:OD1	31:X:67:ILE:HA	2.16	0.46
33:Z:120:SER:HB2	33:Z:153:TYR:CE1	2.51	0.46
33:Z:198:GLU:CD	33:Z:201:LEU:HD12	2.40	0.46
33:Z:344:LYS:CA	33:Z:921:GLU:HB3	2.47	0.46
33:Z:385:PHE:HE1	33:Z:414:GLY:O	1.99	0.46
33:Z:407:VAL:HG13	33:Z:418:ALA:CB	2.46	0.46
33:Z:416:THR:HA	33:Z:450:GLY:CA	2.45	0.46
33:Z:534:PHE:O	33:Z:537:THR:OG1	2.15	0.46
33:Z:804:ASP:OD2	33:Z:806:GLU:HB2	2.15	0.46
33:Z:821:GLY:C	33:Z:862:MET:H	2.21	0.46
8:a:72:ILE:HA	8:a:82:VAL:HA	1.97	0.46
9:b:88:LYS:O	9:b:92:VAL:HG12	2.16	0.46
9:b:111:VAL:HG21	9:b:148:TYR:CD2	2.50	0.46
11:d:53:LYS:C	11:d:55:GLN:H	2.23	0.46
13:f:191:LYS:HA	13:f:194:VAL:HB	1.97	0.46
13:f:195:GLU:O	13:f:199:GLN:HG2	2.16	0.46
3:h:15:GLU:N	4:i:145:HIS:CD2	2.84	0.46
4:i:146:GLY:O	4:i:148:THR:HG23	2.16	0.46
5:j:85:GLU:O	5:j:88:THR:HB	2.15	0.46
6:k:70:ARG:HG2	6:k:71:GLU:OE2	2.15	0.46
6:k:117:TYR:CD1	6:k:127:GLU:HB2	2.51	0.46
6:k:166:GLN:HA	6:k:169:GLU:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:48:ASN:OD1	1:1:49:ILE:N	2.49	0.45
1:1:67:ASP:CG	1:1:102:LYS:HG3	2.41	0.45
1:1:195:SER:O	1:1:199:VAL:HG23	2.15	0.45
3:3:15:GLU:HB3	4:4:145:HIS:CD2	2.51	0.45
4:4:32:ILE:O	4:4:156:LEU:N	2.40	0.45
4:4:116:LEU:O	4:4:119:TYR:N	2.42	0.45
5:5:65:GLU:O	5:5:69:TYR:N	2.25	0.45
6:6:49:GLU:HB3	6:6:52:ASP:HB2	1.99	0.45
6:6:146:HIS:HD2	6:6:147:HIS:CD2	2.33	0.45
6:6:166:GLN:HA	6:6:169:GLU:OE1	2.16	0.45
1:8:177:ASN:C	5:j:169:GLN:HE22	2.24	0.45
2:9:81:ASN:O	2:9:233:ILE:HG21	2.16	0.45
8:A:46:ARG:HG3	8:A:154:ILE:HG13	1.97	0.45
8:A:80:GLY:HA3	8:A:233:PHE:CD2	2.51	0.45
8:A:145:SER:HA	8:A:228:ALA:HB1	1.97	0.45
9:B:96:SER:O	9:B:100:ILE:HD12	2.16	0.45
9:B:139:HIS:HA	9:B:144:GLY:O	2.16	0.45
10:C:87:LEU:O	10:C:90:THR:OG1	2.30	0.45
10:C:112:VAL:HG21	10:C:149:TYR:CD2	2.51	0.45
10:C:149:TYR:HD1	10:C:159:GLY:HA2	1.81	0.45
11:D:147:LEU:O	11:D:158:SER:HA	2.17	0.45
11:D:227:GLU:OE1	11:D:227:GLU:N	2.29	0.45
12:E:153:TYR:OH	12:E:224:LYS:N	2.34	0.45
15:H:148:ASN:HB2	15:H:153:ALA:O	2.15	0.45
15:H:195:VAL:HG23	15:H:196:THR:C	2.41	0.45
15:H:301:LYS:O	15:H:304:CYS:HB3	2.15	0.45
16:I:136:LEU:HB2	16:I:172:CYS:N	2.28	0.45
16:I:175:LEU:CB	16:I:184:VAL:HB	2.44	0.45
16:I:338:ASN:O	16:I:342:GLY:N	2.44	0.45
17:J:130:ALA:HA	17:J:131:ASP:CB	2.47	0.45
18:K:303:MET:O	18:K:333:ARG:NE	2.49	0.45
19:L:197:ILE:HG22	19:L:239:ILE:HD11	1.98	0.45
19:L:263:ILE:HD12	19:L:307:GLU:OE1	2.16	0.45
20:M:379:LEU:HG	20:M:412:HIS:CE1	2.51	0.45
21:N:154:LEU:HD22	21:N:189:LEU:HD22	1.99	0.45
21:N:184:LYS:O	21:N:188:TYR:N	2.31	0.45
21:N:552:ALA:O	21:N:556:ALA:N	2.39	0.45
21:N:612:SER:O	21:N:618:ARG:CZ	2.63	0.45
21:N:891:VAL:H	21:N:908:ARG:HG2	1.80	0.45
22:O:226:LYS:HG2	22:O:229:ASN:HB2	1.97	0.45
24:Q:71:LYS:HA	24:Q:104:PHE:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:85:MET:HB2	24:Q:93:THR:OG1	2.15	0.45
24:Q:185:TYR:HB2	24:Q:194:SER:HB2	1.98	0.45
24:Q:335:PHE:HD1	24:Q:338:LEU:HD23	1.81	0.45
25:R:141:TYR:HB3	25:R:146:ASP:HB2	1.98	0.45
25:R:257:GLY:O	25:R:261:LEU:N	2.36	0.45
25:R:360:SER:OG	25:R:363:PHE:HB3	2.16	0.45
25:R:372:ILE:N	25:R:377:LEU:HD11	2.06	0.45
26:S:9:ASP:O	26:S:12:SER:OG	2.19	0.45
26:S:137:PHE:O	26:S:140:LEU:HB3	2.16	0.45
26:S:227:ASN:OD1	26:S:228:GLU:N	2.49	0.45
26:S:469:ASN:C	26:S:472:HIS:HB3	2.41	0.45
27:T:196:SER:HB2	27:T:197:TYR:CD2	2.51	0.45
27:T:206:LYS:O	27:T:210:PHE:N	2.48	0.45
27:T:249:MET:O	27:T:250:MET:C	2.59	0.45
28:U:79:MET:SD	29:V:91:MET:HG3	2.56	0.45
30:W:68:GLU:CD	30:W:70:GLY:H	2.17	0.45
30:W:172:LEU:HB3	30:W:190:ILE:HD11	1.97	0.45
31:X:90:VAL:HA	31:X:96:ARG:HG2	1.98	0.45
33:Z:138:ARG:NH2	33:Z:158:ALA:HB2	2.31	0.45
33:Z:146:PHE:O	33:Z:213:LYS:HD2	2.17	0.45
33:Z:361:HIS:CE1	33:Z:957:LEU:HD23	2.51	0.45
33:Z:526:ALA:O	33:Z:530:LEU:N	2.30	0.45
33:Z:786:SER:O	33:Z:787:ASP:CB	2.62	0.45
33:Z:923:ILE:CA	33:Z:959:HIS:CE1	2.99	0.45
9:b:99:ARG:NE	4:i:90:SER:OG	2.43	0.45
10:c:36:ILE:HG12	10:c:164:SER:CB	2.45	0.45
11:d:147:LEU:O	11:d:158:SER:HA	2.16	0.45
11:d:150:THR:HA	11:d:155:ILE:O	2.16	0.45
11:d:184:PRO:O	11:d:186:ALA:N	2.48	0.45
12:e:42:THR:OG1	12:e:45:GLY:N	2.38	0.45
13:f:231:ALA:HA	13:f:234:ILE:HD12	1.96	0.45
14:g:48:PHE:HE2	14:g:138:PHE:HA	1.81	0.45
14:g:241:ASP:O	14:g:245:LYS:N	2.35	0.45
3:h:121:TYR:HB2	3:h:197:LEU:HB3	1.98	0.45
5:j:45:HIS:HB2	5:j:50:PHE:CE1	2.51	0.45
5:j:58:THR:HG21	6:k:122:LEU:O	2.16	0.45
5:j:83:GLU:OE1	5:j:113:ASN:HA	2.16	0.45
2:2:53:VAL:HG22	2:2:233:ILE:HB	1.98	0.45
2:2:69:PHE:CZ	3:h:139:HIS:CD2	3.04	0.45
2:2:96:ILE:HA	2:2:99:LEU:HD12	1.98	0.45
4:4:79:ALA:HB2	5:5:129:CYS:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:129:VAL:N	4:4:140:PHE:O	2.41	0.45
4:4:146:GLY:O	4:4:148:THR:HG23	2.16	0.45
6:6:96:ARG:CZ	7:7:166:LYS:HB3	2.46	0.45
1:8:133:LEU:HD22	1:8:137:GLY:O	2.17	0.45
8:A:211:ILE:O	8:A:215:GLY:N	2.49	0.45
9:B:139:HIS:HB2	9:B:145:PHE:CD1	2.52	0.45
10:C:140:TYR:CE2	10:C:225:VAL:HG21	2.50	0.45
11:D:109:LEU:O	11:D:112:TYR:HB3	2.17	0.45
13:F:6:TYR:HB3	13:F:20:PHE:HE2	1.82	0.45
13:F:69:HIS:ND1	13:F:70:MET:HB2	2.31	0.45
14:G:123:HIS:HA	14:G:129:VAL:CG1	2.47	0.45
15:H:253:GLY:CA	15:H:256:LYS:HB3	2.46	0.45
15:H:368:PRO:C	15:H:370:ARG:N	2.73	0.45
15:H:427:GLY:O	15:H:431:ILE:N	2.47	0.45
16:I:205:THR:OG1	17:J:282:PHE:HA	2.16	0.45
17:J:112:ARG:HB2	17:J:127:GLU:O	2.16	0.45
17:J:174:PHE:N	17:J:174:PHE:CD1	2.82	0.45
17:J:342:ASN:H	17:J:379:GLN:CD	2.24	0.45
18:K:123:LEU:HD22	18:K:125:THR:OG1	2.16	0.45
20:M:411:LYS:HG3	20:M:414:ASP:H	1.81	0.45
20:M:416:VAL:O	20:M:420:SER:N	2.43	0.45
21:N:217:MET:C	21:N:219:ASN:H	2.24	0.45
21:N:245:LEU:O	21:N:249:ASN:N	2.49	0.45
21:N:298:TYR:HA	21:N:301:THR:HB	1.97	0.45
21:N:585:ARG:HE	21:N:619:CYS:HB2	1.81	0.45
21:N:704:GLY:O	21:N:708:ALA:N	2.50	0.45
21:N:772:GLN:OE1	21:N:868:VAL:HG12	2.16	0.45
22:O:302:VAL:O	22:O:304:ASN:N	2.49	0.45
23:P:361:THR:HG22	23:P:399:ILE:HG12	1.98	0.45
24:Q:86:MET:HE1	24:Q:90:LYS:HB2	1.96	0.45
24:Q:167:LYS:HE2	9:b:177:LYS:HB3	1.98	0.45
24:Q:231:ASP:HB3	24:Q:234:THR:CG2	2.46	0.45
25:R:133:ALA:HA	25:R:136:ASN:ND2	2.31	0.45
25:R:179:PHE:CE1	25:R:216:ILE:HG22	2.51	0.45
25:R:335:ARG:HH22	25:R:374:ASN:ND2	2.10	0.45
25:R:380:VAL:CB	25:R:389:GLU:HB2	2.43	0.45
28:U:11:ALA:O	28:U:15:LEU:HG	2.15	0.45
28:U:53:ALA:HA	28:U:93:TYR:OH	2.16	0.45
29:V:28:TYR:CE1	29:V:204:HIS:NE2	2.83	0.45
29:V:51:GLY:C	29:V:108:TYR:HE1	2.24	0.45
29:V:113:GLY:N	29:V:144:ILE:HD12	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:163:ALA:HB3	29:V:165:ILE:H	1.82	0.45
31:X:13:GLY:N	31:X:100:TRP:O	2.40	0.45
33:Z:122:LEU:O	33:Z:126:TYR:HB2	2.17	0.45
33:Z:250:VAL:HG22	33:Z:265:LEU:CD2	2.46	0.45
33:Z:269:TYR:CB	33:Z:272:TYR:CE2	2.97	0.45
33:Z:601:VAL:HG11	33:Z:746:ILE:HD13	1.94	0.45
33:Z:770:GLU:CG	33:Z:893:PHE:HE2	2.29	0.45
9:b:157:PHE:HE1	9:b:159:TRP:CE2	2.34	0.45
13:f:80:ASP:HB3	13:f:128:TYR:HB3	1.98	0.45
3:h:181:ALA:O	3:h:185:ASP:N	2.43	0.45
4:i:233:LYS:HB2	5:j:155:GLU:OE2	2.15	0.45
5:j:70:LYS:NZ	5:j:94:SER:OG	2.49	0.45
6:k:141:PHE:O	6:k:145:ASP:N	2.33	0.45
1:1:68:ASN:OD1	1:1:226:VAL:HG13	2.16	0.45
1:1:171:ASN:O	1:1:175:PHE:HA	2.17	0.45
3:3:37:SER:HB2	3:3:49:VAL:C	2.41	0.45
5:5:115:LYS:HB2	9:B:142:PHE:CE1	2.51	0.45
6:6:2:ASP:OD2	6:6:34:LYS:HE2	2.16	0.45
6:6:21:VAL:O	6:6:28:LEU:N	2.47	0.45
6:6:180:ILE:HG23	6:6:191:GLN:NE2	2.31	0.45
7:7:84:GLN:HA	7:7:221:TRP:NE1	2.32	0.45
2:9:53:VAL:HG22	2:9:233:ILE:HB	1.98	0.45
2:9:121:GLU:CD	2:9:122:PRO:HD2	2.41	0.45
8:A:242:GLU:O	8:A:246:VAL:HG23	2.16	0.45
9:B:157:PHE:HE1	9:B:159:TRP:CE2	2.35	0.45
9:B:186:GLU:O	9:B:189:ILE:HB	2.16	0.45
10:C:213:PHE:HB3	10:C:235:ILE:HG12	1.98	0.45
11:D:150:THR:HA	11:D:155:ILE:O	2.16	0.45
14:G:20:ARG:HH21	14:G:25:GLU:CD	2.24	0.45
14:G:48:PHE:HE2	14:G:138:PHE:HA	1.81	0.45
14:G:241:ASP:O	14:G:245:LYS:N	2.35	0.45
15:H:278:GLU:C	15:H:281:GLN:NE2	2.75	0.45
15:H:420:ARG:HB2	16:I:370:ARG:HH12	1.82	0.45
16:I:133:ILE:H	17:J:94:TYR:HA	1.80	0.45
16:I:200:MET:HE3	17:J:231:ARG:NH2	2.31	0.45
16:I:376:LEU:O	16:I:376:LEU:HD12	2.15	0.45
16:I:383:SER:O	16:I:387:LYS:N	2.41	0.45
17:J:273:LEU:HA	17:J:276:LEU:HD12	1.98	0.45
18:K:209:VAL:CG2	18:K:315:ILE:HG12	2.47	0.45
19:L:111:GLU:CG	19:L:117:TYR:HE1	2.28	0.45
19:L:180:PHE:HB2	19:L:190:ILE:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:75:LEU:HA	20:M:76:PRO:HA	1.59	0.45
20:M:303:ARG:HA	20:M:306:LEU:HD12	1.98	0.45
21:N:141:ILE:O	21:N:144:CYS:HB2	2.15	0.45
21:N:455:MET:HE3	21:N:728:LYS:HG2	1.97	0.45
21:N:889:ARG:HA	21:N:909:GLU:OE1	2.17	0.45
22:O:60:ARG:O	22:O:63:ASP:HB3	2.16	0.45
22:O:141:ASN:O	22:O:142:ASP:HB2	2.15	0.45
22:O:371:VAL:C	22:O:374:ASN:HB3	2.41	0.45
23:P:164:GLN:OE1	23:P:176:LYS:NZ	2.29	0.45
24:Q:55:GLU:HG3	24:Q:96:VAL:HG11	1.97	0.45
24:Q:145:HIS:ND1	24:Q:153:ASP:HB3	2.31	0.45
24:Q:240:PHE:HA	24:Q:265:MET:SD	2.56	0.45
25:R:39:SER:OG	25:R:42:GLN:N	2.41	0.45
25:R:134:TRP:CE3	25:R:137:LEU:HD23	2.51	0.45
25:R:191:LEU:HG	25:R:210:TYR:CD1	2.52	0.45
25:R:350:LEU:CD2	25:R:365:ASP:CG	2.70	0.45
25:R:384:VAL:HG11	26:S:403:SER:HB3	1.99	0.45
26:S:307:LEU:O	26:S:311:GLN:HG2	2.16	0.45
26:S:320:ILE:O	26:S:323:LEU:N	2.50	0.45
26:S:383:LEU:HA	26:S:386:ASN:ND2	2.32	0.45
26:S:385:SER:C	26:S:389:LYS:HZ3	2.25	0.45
26:S:458:GLN:NE2	28:U:270:ASN:O	2.50	0.45
27:T:68:ALA:O	27:T:72:THR:N	2.39	0.45
27:T:131:LYS:HB3	27:T:134:LYS:HB3	1.99	0.45
28:U:120:LEU:HB3	28:U:137:TYR:HB2	1.98	0.45
28:U:230:GLN:HA	28:U:233:PHE:CE2	2.52	0.45
29:V:53:MET:O	29:V:105:VAL:HG22	2.16	0.45
29:V:185:ILE:HG13	29:V:186:GLN:N	2.31	0.45
30:W:150:ASN:O	30:W:152:GLU:HG3	2.15	0.45
9:b:200:VAL:HG11	9:b:204:PHE:HB2	1.98	0.45
10:c:11:THR:O	11:d:127:ARG:HD3	2.16	0.45
11:d:79:ASN:O	11:d:83:ARG:HG3	2.16	0.45
13:f:196:ALA:O	13:f:199:GLN:N	2.47	0.45
3:h:22:ILE:HB	3:h:63:CYS:HB3	1.99	0.45
4:i:236:ARG:HA	5:j:165:GLU:HG3	1.98	0.45
5:j:135:ASP:CG	5:j:136:PHE:N	2.74	0.45
5:j:178:ASP:OD1	5:j:179:ALA:N	2.50	0.45
1:1:200:ILE:O	1:1:204:ARG:HG3	2.16	0.45
2:2:81:ASN:O	2:2:233:ILE:HG21	2.16	0.45
5:5:178:ASP:OD1	5:5:179:ALA:N	2.50	0.45
6:6:129:PRO:HB2	6:6:130:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:179:VAL:H	6:6:196:GLN:NE2	2.13	0.45
7:7:87:ILE:HB	7:7:255:VAL:HB	1.98	0.45
7:7:93:SER:HA	7:7:106:VAL:O	2.16	0.45
7:7:210:PHE:CZ	6:k:138:PHE:HA	2.51	0.45
2:9:136:ARG:HH21	2:9:141:ASN:CG	2.23	0.45
8:A:39:ASN:OD1	8:A:173:PRO:HG2	2.16	0.45
9:B:148:TYR:CE1	9:B:158:PRO:HB3	2.47	0.45
12:E:73:HIS:CD2	12:E:106:ASP:HB3	2.51	0.45
12:E:179:ALA:O	12:E:183:LEU:HG	2.16	0.45
13:F:156:LEU:HD23	14:G:59:LEU:HA	1.98	0.45
14:G:33:ASN:HA	14:G:167:LYS:NZ	2.31	0.45
15:H:147:ILE:HD12	15:H:156:VAL:HA	1.98	0.45
15:H:331:ARG:NH2	20:M:248:ALA:HB3	2.31	0.45
15:H:398:VAL:C	15:H:437:VAL:HB	2.41	0.45
16:I:398:LEU:HA	16:I:438:VAL:H	1.81	0.45
17:J:49:ASN:O	17:J:50:ALA:C	2.60	0.45
18:K:213:GLY:N	18:K:219:LYS:NZ	2.65	0.45
18:K:244:HIS:CE1	18:K:250:GLY:HA2	2.44	0.45
18:K:246:TYR:C	18:K:248:GLY:N	2.73	0.45
18:K:255:ARG:O	18:K:258:PHE:HB3	2.16	0.45
19:L:221:TYR:OH	19:L:348:GLU:HB3	2.16	0.45
20:M:145:LEU:HD12	20:M:160:PRO:O	2.16	0.45
22:O:99:LEU:HD12	22:O:132:GLU:CB	2.47	0.45
23:P:167:THR:OG1	23:P:168:TYR:N	2.46	0.45
23:P:266:TYR:CE1	23:P:322:LEU:O	2.69	0.45
23:P:408:SER:C	23:P:410:GLN:H	2.24	0.45
25:R:232:VAL:O	25:R:235:LEU:HG	2.15	0.45
25:R:251:THR:O	25:R:255:VAL:HG23	2.17	0.45
25:R:254:SER:OG	25:R:289:ILE:HD12	2.17	0.45
26:S:210:LEU:HD12	26:S:214:MET:HE3	1.99	0.45
26:S:368:LYS:O	26:S:371:LEU:HB2	2.16	0.45
26:S:434:ALA:CB	26:S:445:THR:HA	2.46	0.45
27:T:28:PRO:O	27:T:31:LYS:HB3	2.15	0.45
28:U:269:THR:O	28:U:273:LEU:HG	2.16	0.45
28:U:298:ASN:HA	28:U:301:ILE:HD12	1.97	0.45
30:W:170:HIS:CG	30:W:171:LEU:N	2.84	0.45
31:X:11:ARG:HD3	31:X:103:GLU:HG3	1.99	0.45
31:X:66:LEU:HD21	31:X:97:TYR:CD1	2.51	0.45
33:Z:353:VAL:O	33:Z:357:ILE:HG13	2.15	0.45
33:Z:361:HIS:CD2	33:Z:364:ASN:ND2	2.85	0.45
33:Z:503:ASP:O	33:Z:506:LEU:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:29:GLU:O	8:a:32:PHE:HB2	2.17	0.45
10:c:47:ALA:HB2	10:c:213:PHE:CD1	2.52	0.45
10:c:125:HIS:CB	11:d:126:VAL:HG12	2.47	0.45
10:c:209:ASP:N	10:c:209:ASP:OD1	2.48	0.45
11:d:11:PHE:CD1	12:e:27:SER:HA	2.51	0.45
11:d:37:LYS:HB2	11:d:145:PRO:CB	2.45	0.45
12:e:219:LEU:HD12	12:e:236:THR:HG23	1.98	0.45
13:f:50:LYS:HG3	13:f:212:SER:HB2	1.98	0.45
14:g:13:SER:HB3	14:g:126:TYR:CA	2.46	0.45
4:i:91:ASN:O	4:i:95:HIS:N	2.36	0.45
4:i:115:HIS:CE1	4:i:119:TYR:CE2	3.05	0.45
4:i:133:ASP:N	4:i:136:GLY:O	2.45	0.45
5:j:85:GLU:H	5:j:85:GLU:CD	2.19	0.45
5:5:37:SER:HB3	5:5:40:PHE:HB2	1.98	0.45
1:8:68:ASN:OD1	1:8:226:VAL:HG13	2.16	0.45
9:B:9:LEU:HD12	9:B:127:VAL:O	2.16	0.45
9:B:190:HIS:CD2	9:B:194:LEU:HD11	2.52	0.45
10:C:73:ILE:HD11	10:C:108:VAL:HA	1.98	0.45
10:C:141:ASP:OD1	10:C:144:TYR:N	2.50	0.45
10:C:242:THR:C	10:C:244:ILE:H	2.24	0.45
14:G:78:TYR:HB3	14:G:136:THR:OG1	2.17	0.45
15:H:77:ALA:HB3	15:H:170:GLU:HB3	1.99	0.45
15:H:105:ILE:O	15:H:144:LYS:N	2.50	0.45
15:H:213:GLY:HA3	15:H:388:ILE:CG1	2.47	0.45
15:H:252:PRO:C	15:H:254:THR:N	2.72	0.45
16:I:157:VAL:CG2	16:I:183:ILE:HG13	2.46	0.45
16:I:248:LEU:HB2	16:I:354:ALA:HA	1.97	0.45
16:I:317:LYS:HA	16:I:330:GLN:HE21	1.82	0.45
17:J:34:ILE:CG2	18:K:58:TYR:HB3	2.43	0.45
17:J:122:LEU:HD23	17:J:122:LEU:HA	1.72	0.45
17:J:187:LEU:CB	17:J:293:ALA:HB1	2.38	0.45
18:K:52:LYS:HG3	21:N:155:GLY:HA3	1.98	0.45
18:K:174:VAL:HG21	18:K:218:GLY:HA3	1.97	0.45
19:L:369:LYS:C	19:L:409:HIS:HA	2.42	0.45
20:M:289:LYS:HG3	20:M:290:ARG:O	2.16	0.45
21:N:171:LYS:HA	21:N:174:LEU:HD13	1.97	0.45
21:N:497:ALA:O	21:N:501:MET:N	2.30	0.45
22:O:222:LEU:HD21	22:O:254:LEU:HD13	1.99	0.45
23:P:210:ASN:O	23:P:212:LYS:N	2.50	0.45
23:P:263:HIS:C	23:P:266:TYR:HB3	2.41	0.45
24:Q:416:VAL:HB	25:R:406:GLN:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:174:ILE:CG2	25:R:190:LYS:HD3	2.47	0.45
25:R:215:GLY:HA2	25:R:227:ALA:CB	2.47	0.45
25:R:309:LEU:CD2	32:Y:72:ASP:HB2	2.47	0.45
26:S:229:THR:HA	26:S:232:MET:HE2	1.99	0.45
26:S:310:LEU:O	26:S:313:SER:HB2	2.17	0.45
26:S:338:MET:HG2	26:S:342:LEU:N	2.30	0.45
26:S:437:ASN:O	26:S:441:GLY:N	2.49	0.45
27:T:174:PHE:O	27:T:174:PHE:CG	2.70	0.45
28:U:122:ILE:HB	28:U:135:ASP:HB2	1.98	0.45
28:U:294:ASN:HA	28:U:297:GLN:OE1	2.17	0.45
33:Z:246:CYS:O	33:Z:250:VAL:HG23	2.17	0.45
33:Z:269:TYR:OH	33:Z:296:SER:HA	2.17	0.45
33:Z:318:LYS:HD2	33:Z:876:VAL:HB	1.99	0.45
33:Z:604:GLY:C	33:Z:606:CYS:H	2.25	0.45
33:Z:740:VAL:CG1	33:Z:772:ILE:HG13	2.46	0.45
33:Z:765:MET:SD	33:Z:777:PRO:HD3	2.56	0.45
33:Z:808:SER:HA	33:Z:811:SER:HB3	1.98	0.45
33:Z:917:ASN:CG	33:Z:918:ASP:N	2.74	0.45
8:a:43:LEU:HD11	8:a:206:ALA:HB1	1.99	0.45
10:c:35:ALA:O	10:c:165:VAL:N	2.41	0.45
11:d:90:ARG:NH1	6:k:70:ARG:HA	2.32	0.45
12:e:201:LEU:HD13	12:e:219:LEU:HD11	1.99	0.45
12:e:222:ILE:HG13	12:e:227:GLY:C	2.40	0.45
13:f:43:HIS:HA	13:f:217:GLY:HA2	1.98	0.45
14:g:20:ARG:HH21	14:g:25:GLU:CD	2.24	0.45
3:h:37:SER:HB2	3:h:49:VAL:C	2.41	0.45
3:h:72:GLN:NE2	4:i:148:THR:O	2.40	0.45
3:h:185:ASP:OD1	3:h:186:GLY:N	2.49	0.45
4:i:81:THR:O	4:i:85:THR:OG1	2.29	0.45
6:k:16:ALA:HA	6:k:180:ILE:O	2.17	0.45
6:k:50:ALA:HB1	7:l:195:THR:OG1	2.16	0.45
4:4:89:GLY:HA2	4:4:92:ILE:HB	1.98	0.45
6:6:40:PRO:HG2	6:6:74:GLU:OE1	2.17	0.45
7:7:84:GLN:HA	7:7:221:TRP:CE2	2.51	0.45
1:8:114:HIS:CE1	12:E:102:TYR:HD1	2.35	0.45
1:8:200:ILE:O	1:8:204:ARG:HG3	2.15	0.45
2:9:96:ILE:HA	2:9:99:LEU:HD12	1.98	0.45
8:A:91:ARG:HH12	14:G:157:TYR:N	2.03	0.45
10:C:15:PRO:HA	11:D:22:TYR:CZ	2.52	0.45
11:D:79:ASN:O	11:D:83:ARG:HG3	2.16	0.45
12:E:18:GLU:OE1	12:E:18:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:159:THR:OG1	13:F:160:ALA:N	2.50	0.45
14:G:44:ASP:OD1	14:G:45:GLY:N	2.50	0.45
14:G:166:GLY:O	14:G:169:ARG:NH1	2.42	0.45
15:H:283:TYR:HB3	20:M:254:MET:CG	2.46	0.45
15:H:420:ARG:HD2	16:I:370:ARG:NH2	2.31	0.45
17:J:76:ILE:HD11	17:J:87:LYS:CB	2.47	0.45
18:K:85:GLU:HA	18:K:88:ARG:HB2	1.99	0.45
18:K:121:ARG:HD3	18:K:121:ARG:HA	1.80	0.45
18:K:128:ARG:HH11	29:V:272:GLY:C	2.24	0.45
18:K:265:ALA:HB1	18:K:311:ASN:CB	2.46	0.45
18:K:266:PRO:CA	18:K:311:ASN:HB3	2.37	0.45
19:L:74:LEU:HB2	20:M:15:ASP:OD2	2.17	0.45
19:L:109:MET:HB2	19:L:109:MET:HE3	1.69	0.45
20:M:148:VAL:HG22	20:M:155:ILE:HA	1.99	0.45
20:M:353:SER:O	20:M:357:ARG:HG3	2.16	0.45
21:N:50:TYR:HA	21:N:58:ARG:HD2	1.99	0.45
21:N:313:LEU:HA	21:N:316:LYS:HB3	1.99	0.45
21:N:362:TRP:CZ2	21:N:742:TRP:HH2	2.35	0.45
23:P:123:ARG:HB2	23:P:129:LYS:HG2	1.98	0.45
23:P:160:LEU:HD11	23:P:179:PHE:HB3	1.98	0.45
23:P:218:LEU:HD23	23:P:221:TYR:CD2	2.52	0.45
24:Q:269:LYS:HA	24:Q:272:LEU:HB3	1.98	0.45
24:Q:308:ASN:C	24:Q:349:LYS:HG3	2.42	0.45
24:Q:315:ASN:OD1	24:Q:339:TYR:CZ	2.69	0.45
25:R:130:GLN:HG2	25:R:134:TRP:HE1	1.81	0.45
25:R:207:ARG:O	25:R:210:TYR:HB3	2.16	0.45
25:R:289:ILE:O	25:R:293:THR:OG1	2.23	0.45
26:S:15:VAL:O	26:S:18:LEU:HB2	2.16	0.45
26:S:17:ASP:O	26:S:21:SER:N	2.50	0.45
26:S:404:LEU:HB2	26:S:441:GLY:O	2.16	0.45
29:V:87:PHE:O	29:V:90:LYS:HB2	2.16	0.45
30:W:12:ASN:ND2	30:W:79:THR:HB	2.27	0.45
33:Z:256:LEU:N	33:Z:257:PRO:HD2	2.32	0.45
33:Z:330:ILE:HG12	33:Z:339:PHE:CE1	2.52	0.45
33:Z:342:LEU:CB	33:Z:344:LYS:H	2.29	0.45
33:Z:506:LEU:O	33:Z:509:LEU:N	2.49	0.45
33:Z:585:LEU:HD21	33:Z:599:ILE:O	2.16	0.45
33:Z:818:CYS:HB2	33:Z:830:LEU:HD21	1.98	0.45
8:a:133:TYR:HD2	14:g:126:TYR:CE2	2.34	0.45
8:a:245:LEU:O	8:a:248:ILE:HG13	2.17	0.45
10:c:106:ILE:HD11	10:c:110:ILE:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:213:PHE:HB3	10:c:235:ILE:HG12	1.98	0.45
11:d:109:LEU:O	11:d:112:TYR:HB3	2.17	0.45
11:d:197:ARG:O	11:d:201:GLU:HG2	2.16	0.45
13:f:6:TYR:HB3	13:f:20:PHE:HE2	1.82	0.45
13:f:33:SER:O	13:f:162:GLY:HA3	2.17	0.45
13:f:43:HIS:CE1	13:f:184:GLY:HA2	2.50	0.45
3:h:122:ASP:N	3:h:126:LYS:O	2.40	0.45
4:i:116:LEU:O	4:i:119:TYR:N	2.42	0.45
4:i:170:HIS:HB2	4:i:183:LEU:HD13	1.97	0.45
7:l:179:TYR:CD2	7:l:185:PRO:HG3	2.52	0.45
7:l:220:LYS:H	7:l:223:LEU:HD13	1.81	0.45
3:3:121:TYR:HB2	3:3:197:LEU:HB3	1.98	0.45
3:3:185:ASP:HB3	3:3:188:SER:HB2	1.98	0.45
5:5:135:ASP:CG	5:5:136:PHE:N	2.74	0.45
6:6:83:PHE:HB2	10:C:102:TYR:CE1	2.52	0.45
6:6:173:PRO:HD3	6:k:25:ILE:O	2.16	0.45
2:9:254:PHE:HA	2:9:256:LYS:HZ3	1.82	0.45
8:A:29:GLU:O	8:A:32:PHE:HB2	2.17	0.45
10:C:148:LEU:HB3	10:C:160:TRP:O	2.17	0.45
11:D:138:PHE:HE1	11:D:145:PRO:HA	1.79	0.45
12:E:15:PHE:HZ	13:F:127:PRO:O	2.00	0.45
12:E:47:VAL:C	12:E:48:LEU:HD12	2.42	0.45
13:F:171:TYR:CD2	13:F:196:ALA:HA	2.52	0.45
16:I:284:LEU:HA	16:I:328:GLU:OE1	2.17	0.45
17:J:71:TYR:O	17:J:115:LEU:N	2.26	0.45
18:K:134:SER:O	18:K:259:ARG:CZ	2.64	0.45
18:K:344:ARG:HB2	18:K:349:ARG:NE	2.32	0.45
18:K:349:ARG:NH2	18:K:378:LEU:N	2.64	0.45
19:L:421:LYS:HE2	20:M:345:ARG:NH1	2.19	0.45
21:N:15:GLU:OE2	27:T:80:ASN:HB3	2.17	0.45
21:N:134:THR:O	21:N:137:PHE:HB3	2.17	0.45
21:N:252:GLY:HA2	21:N:255:ALA:HB3	1.99	0.45
21:N:535:LEU:HA	21:N:538:LYS:HD2	1.97	0.45
21:N:649:VAL:HB	21:N:652:VAL:CG2	2.46	0.45
22:O:297:ILE:HG21	22:O:354:GLN:HG2	1.98	0.45
22:O:350:ILE:HG22	22:O:351:SER:N	2.32	0.45
22:O:384:MET:CG	28:U:190:LEU:HB2	2.46	0.45
23:P:163:LEU:HA	23:P:167:THR:CG2	2.47	0.45
23:P:323:ASN:O	23:P:337:HIS:CE1	2.67	0.45
24:Q:145:HIS:HB3	24:Q:150:GLN:HB2	1.98	0.45
24:Q:212:THR:HG22	24:Q:249:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:216:ALA:HB1	24:Q:246:TYR:CE2	2.51	0.45
24:Q:351:ILE:HD12	24:Q:352:GLU:OE2	2.16	0.45
24:Q:404:ASN:ND2	25:R:393:PRO:CG	2.76	0.45
25:R:31:PHE:CZ	25:R:35:GLN:HG3	2.52	0.45
25:R:75:GLY:C	25:R:92:ILE:HG21	2.41	0.45
25:R:240:SER:OG	25:R:243:LEU:N	2.50	0.45
25:R:259:PHE:CZ	25:R:329:PHE:HA	2.52	0.45
26:S:212:SER:O	26:S:216:LYS:HG3	2.17	0.45
26:S:330:LEU:O	26:S:333:PHE:N	2.49	0.45
26:S:396:SER:C	26:S:398:THR:H	2.23	0.45
26:S:397:LEU:O	26:S:445:THR:OG1	2.34	0.45
26:S:454:SER:O	26:S:457:PRO:HD2	2.17	0.45
27:T:32:ILE:O	27:T:35:ILE:HB	2.16	0.45
27:T:82:PHE:CZ	27:T:106:ILE:HB	2.52	0.45
27:T:187:ASP:O	27:T:190:ALA:HB3	2.16	0.45
28:U:39:GLY:HA3	28:U:47:ARG:O	2.16	0.45
30:W:126:ILE:HA	30:W:129:ALA:HB3	1.99	0.45
31:X:85:ARG:N	31:X:101:LEU:HD22	2.32	0.45
33:Z:212:LEU:C	33:Z:215:ASN:H	2.24	0.45
33:Z:275:GLN:HG3	33:Z:278:LEU:HD22	1.89	0.45
33:Z:341:TYR:HA	33:Z:345:GLU:OE1	2.16	0.45
33:Z:342:LEU:HD13	33:Z:344:LYS:HD3	1.98	0.45
10:c:120:GLN:NE2	11:d:81:ASP:HA	2.32	0.45
11:d:6:ARG:HA	12:e:125:GLU:CD	2.41	0.45
11:d:116:VAL:HA	11:d:119:ARG:NH1	2.32	0.45
13:f:34:VAL:HG23	13:f:165:SER:HB3	1.98	0.45
13:f:49:LEU:CD1	13:f:210:ASN:HB3	2.47	0.45
13:f:121:GLN:HB2	14:g:130:ARG:NH2	2.32	0.45
14:g:33:ASN:HA	14:g:167:LYS:NZ	2.31	0.45
14:g:44:ASP:OD1	14:g:45:GLY:N	2.50	0.45
14:g:160:TYR:HB3	14:g:162:GLY:O	2.16	0.45
14:g:218:TRP:CD1	14:g:231:VAL:HG22	2.52	0.45
6:k:49:GLU:HB3	6:k:52:ASP:HB2	1.98	0.45
6:k:193:ASP:OD1	6:k:194:ASP:N	2.50	0.45
7:l:154:ALA:HA	7:l:157:ILE:HD12	1.99	0.45
3:3:172:ASP:HA	3:3:175:LYS:HB3	1.99	0.45
4:4:87:LEU:O	4:4:90:SER:HB3	2.17	0.45
4:4:116:LEU:HB3	4:4:144:ALA:O	2.16	0.45
4:4:189:GLN:O	4:4:193:TRP:HD1	1.98	0.45
5:5:98:ARG:O	5:5:99:ARG:C	2.59	0.45
7:7:97:ALA:O	7:7:100:TRP:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:154:ALA:HA	7:7:157:ILE:HD12	1.99	0.45
1:8:179:TYR:HE1	1:8:188:LYS:HG2	1.81	0.45
1:8:213:ARG:HH12	4:i:58:LYS:H	1.64	0.45
2:9:162:TYR:CG	2:9:163:VAL:N	2.84	0.45
9:B:34:SER:N	9:B:164:ILE:O	2.31	0.45
10:C:171:ALA:O	10:C:175:LEU:HG	2.17	0.45
12:E:15:PHE:HE2	13:F:127:PRO:HD2	1.81	0.45
12:E:78:MET:HB2	12:E:140:VAL:HG21	1.98	0.45
13:F:33:SER:O	13:F:162:GLY:HA3	2.16	0.45
14:G:20:ARG:NE	14:G:25:GLU:OE2	2.46	0.45
15:H:104:LYS:H	15:H:144:LYS:CD	2.29	0.45
15:H:244:LYS:HB3	15:H:346:ARG:NE	2.31	0.45
15:H:298:ALA:HB1	15:H:349:ILE:HG21	1.98	0.45
16:I:244:LYS:HG2	16:I:370:ARG:HB3	1.99	0.45
18:K:69:LYS:HA	18:K:72:GLN:HB2	1.99	0.45
20:M:129:LEU:O	20:M:129:LEU:HD12	2.16	0.45
20:M:276:THR:O	20:M:322:LYS:N	2.48	0.45
21:N:261:LEU:HD11	21:N:270:LEU:HD13	1.98	0.45
21:N:378:ASN:O	21:N:411:ILE:HG21	2.16	0.45
21:N:423:LEU:HD23	21:N:426:ILE:HD12	1.99	0.45
21:N:515:ARG:HD3	21:N:738:GLN:HE22	1.80	0.45
21:N:762:ARG:HE	21:N:764:SER:HG	1.62	0.45
21:N:875:LEU:HB3	21:N:878:GLN:N	2.30	0.45
22:O:56:PRO:HD2	22:O:86:LEU:CD2	2.44	0.45
22:O:103:LYS:CB	22:O:132:GLU:CG	2.88	0.45
22:O:205:ILE:HB	22:O:209:GLU:CD	2.41	0.45
23:P:56:LYS:NZ	23:P:91:LEU:HB2	2.31	0.45
23:P:91:LEU:HD23	23:P:130:ILE:HD11	1.99	0.45
23:P:280:LEU:HD22	23:P:283:LYS:HZ1	1.81	0.45
23:P:371:LEU:HD13	23:P:379:TYR:CE2	2.52	0.45
26:S:280:ASN:O	26:S:284:LEU:N	2.50	0.45
27:T:121:LYS:O	27:T:125:GLU:N	2.48	0.45
27:T:217:THR:O	27:T:220:PHE:N	2.50	0.45
29:V:237:ASN:N	29:V:238:LEU:O	2.50	0.45
30:W:7:VAL:HB	30:W:110:ILE:HG12	1.98	0.45
30:W:59:PRO:HB3	30:W:86:HIS:HB3	1.98	0.45
31:X:85:ARG:N	31:X:116:ALA:H	2.14	0.45
32:Y:72:ASP:N	32:Y:72:ASP:OD1	2.45	0.45
33:Z:201:LEU:HB3	33:Z:232:LYS:NZ	2.32	0.45
33:Z:237:VAL:H	33:Z:264:PHE:HZ	1.56	0.45
33:Z:416:THR:OG1	33:Z:449:ALA:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:14:SER:CB	10:c:18:ARG:H	2.30	0.45
11:d:192:VAL:O	11:d:195:THR:HB	2.17	0.45
12:e:21:LEU:O	12:e:25:GLU:N	2.33	0.45
12:e:70:ILE:HB	12:e:74:ILE:O	2.16	0.45
12:e:73:HIS:CD2	12:e:106:ASP:HB3	2.51	0.45
13:f:12:THR:HA	14:g:23:GLN:NE2	2.32	0.45
14:g:218:TRP:CD1	14:g:218:TRP:N	2.84	0.45
4:i:89:GLY:HA2	4:i:92:ILE:HB	1.98	0.45
4:i:108:ALA:O	4:i:112:LEU:HG	2.17	0.45
6:k:40:PRO:HG2	6:k:74:GLU:OE1	2.17	0.45
7:l:93:SER:HA	7:l:106:VAL:O	2.16	0.45
1:1:38:ASP:N	1:1:38:ASP:OD1	2.50	0.45
1:1:213:ARG:NH1	4:4:58:LYS:H	2.13	0.45
3:3:85:TYR:CZ	3:3:89:TYR:HB2	2.52	0.45
4:4:105:VAL:HG21	4:4:138:HIS:HB2	1.98	0.45
4:4:178:GLU:CD	4:4:178:GLU:N	2.73	0.45
5:5:50:PHE:CD1	5:5:50:PHE:N	2.85	0.45
1:8:171:ASN:HD21	5:j:169:GLN:HB3	1.82	0.45
2:9:48:LYS:HB2	2:9:158:GLN:HG2	1.99	0.45
8:A:245:LEU:O	8:A:248:ILE:HG13	2.17	0.45
12:E:70:ILE:HB	12:E:74:ILE:O	2.16	0.45
13:F:43:HIS:HA	13:F:217:GLY:HA2	1.98	0.45
14:G:218:TRP:CD1	14:G:231:VAL:HG22	2.52	0.45
15:H:184:GLU:H	15:H:184:GLU:CD	2.24	0.45
15:H:421:SER:HB3	16:I:369:GLY:N	2.31	0.45
16:I:204:PRO:CB	16:I:261:LYS:HD3	2.46	0.45
16:I:410:THR:OG1	16:I:447:LYS:NZ	2.50	0.45
17:J:188:TYR:HB3	17:J:315:GLU:CG	2.47	0.45
17:J:196:THR:HG22	17:J:200:ARG:HG3	1.99	0.45
17:J:286:LYS:C	17:J:288:ILE:H	2.23	0.45
18:K:155:ASP:OD1	18:K:161:MET:HE3	2.17	0.45
19:L:187:THR:HA	19:L:190:ILE:HD12	1.98	0.45
19:L:253:ASP:OD1	20:M:256:ILE:O	2.34	0.45
19:L:419:VAL:O	19:L:423:ALA:N	2.41	0.45
20:M:260:ALA:N	20:M:304:THR:HG22	2.32	0.45
20:M:339:ARG:HD2	20:M:342:ARG:HD2	1.99	0.45
21:N:259:PHE:CD2	21:N:904:VAL:HG21	2.52	0.45
21:N:299:TYR:OH	21:N:713:VAL:HG11	2.17	0.45
21:N:317:SER:O	21:N:320:SER:HB2	2.17	0.45
21:N:345:ASP:CG	21:N:347:SER:HG	2.25	0.45
21:N:419:THR:O	21:N:422:TYR:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:567:ALA:HA	21:N:570:ARG:CZ	2.47	0.45
22:O:16:MET:HA	22:O:72:LYS:HZ1	1.81	0.45
22:O:56:PRO:O	22:O:59:LEU:HB2	2.17	0.45
22:O:99:LEU:HD12	22:O:132:GLU:CA	2.45	0.45
22:O:309:SER:HA	22:O:310:PHE:HA	1.81	0.45
22:O:331:ALA:CA	22:O:337:LEU:HB2	2.47	0.45
23:P:133:GLU:C	23:P:135:GLU:N	2.73	0.45
23:P:193:TYR:CD1	23:P:193:TYR:N	2.84	0.45
24:Q:34:ASP:O	24:Q:35:SER:OG	2.35	0.45
24:Q:35:SER:HB2	24:Q:46:VAL:O	2.16	0.45
24:Q:293:SER:O	24:Q:296:ILE:HB	2.17	0.45
24:Q:302:VAL:CG1	24:Q:335:PHE:HE1	2.13	0.45
25:R:54:ILE:HD13	25:R:63:TYR:CE2	2.52	0.45
25:R:67:CYS:SG	25:R:94:PHE:CE1	3.10	0.45
25:R:372:ILE:CG1	25:R:381:ILE:HG21	2.47	0.45
26:S:153:GLU:N	26:S:191:HIS:CE1	2.85	0.45
27:T:15:PHE:CD1	27:T:64:VAL:HG13	2.52	0.45
27:T:191:LYS:HA	27:T:194:GLU:HB3	1.99	0.45
27:T:254:ASP:O	27:T:257:THR:N	2.50	0.45
29:V:29:ILE:HG22	29:V:30:SER:O	2.17	0.45
30:W:49:VAL:HG12	30:W:50:GLY:O	2.16	0.45
31:X:14:VAL:HG23	31:X:50:TRP:CG	2.52	0.45
33:Z:205:LEU:O	33:Z:209:PRO:HG2	2.17	0.45
33:Z:293:MET:O	33:Z:297:VAL:HG23	2.17	0.45
33:Z:389:PHE:O	33:Z:857:LEU:HG	2.16	0.45
33:Z:524:ALA:HB1	33:Z:565:PHE:CG	2.52	0.45
8:a:46:ARG:N	8:a:154:ILE:HD11	2.32	0.45
8:a:88:PRO:HB3	14:g:155:GLY:O	2.17	0.45
11:d:151:GLU:O	11:d:154:GLY:N	2.39	0.45
12:e:69:GLU:HB2	12:e:228:PHE:CD1	2.52	0.45
14:g:35:THR:HG21	14:g:66:LYS:HZ3	1.82	0.45
3:h:12:LYS:HE2	4:i:120:GLN:HA	1.99	0.45
3:h:72:GLN:HB3	4:i:113:LYS:NZ	2.31	0.45
7:l:84:GLN:HA	7:l:221:TRP:NE1	2.32	0.45
1:1:171:ASN:HD22	5:5:149:MET:HE1	1.81	0.45
2:2:124:TYR:CD1	13:f:99:PHE:O	2.70	0.45
3:3:185:ASP:OD1	3:3:186:GLY:N	2.49	0.45
6:6:52:ASP:OD2	6:6:98:TYR:HA	2.18	0.45
6:6:106:GLY:N	6:6:115:GLU:O	2.50	0.45
7:7:120:MET:HE2	7:7:128:GLN:HB2	1.99	0.45
7:7:191:ASP:OD2	7:7:193:ASP:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:206:ALA:O	2:9:210:ILE:HG12	2.16	0.45
8:A:43:LEU:HD11	8:A:206:ALA:HB1	1.99	0.45
8:A:46:ARG:N	8:A:154:ILE:HD11	2.32	0.45
10:C:134:SER:OG	10:C:152:ASN:HA	2.16	0.45
10:C:184:MET:HE1	10:C:192:LEU:HD13	1.98	0.45
11:D:32:CYS:HB2	11:D:166:ARG:O	2.17	0.45
12:E:204:LEU:O	12:E:208:MET:HG3	2.17	0.45
13:F:29:ILE:O	13:F:162:GLY:HA2	2.17	0.45
13:F:81:ALA:O	13:F:85:SER:N	2.32	0.45
14:G:78:TYR:HB3	14:G:136:THR:HA	1.99	0.45
14:G:218:TRP:NE1	14:G:230:PHE:O	2.43	0.45
15:H:169:GLU:N	15:H:174:VAL:HG13	2.32	0.45
15:H:241:ASP:HB3	15:H:242:PRO:HD2	1.99	0.45
15:H:379:LEU:HD12	15:H:413:ASN:CB	2.47	0.45
16:I:222:LYS:HG3	16:I:226:GLU:CD	2.42	0.45
16:I:309:ASP:OD1	16:I:310:GLU:N	2.50	0.45
17:J:188:TYR:HB3	17:J:315:GLU:HG2	1.99	0.45
18:K:215:PRO:HD2	19:L:339:ARG:NH2	2.32	0.45
19:L:109:MET:O	19:L:142:LYS:HG3	2.17	0.45
19:L:193:LEU:HA	19:L:196:VAL:HG12	1.99	0.45
19:L:379:ALA:O	19:L:383:SER:N	2.50	0.45
20:M:216:LYS:HG3	20:M:316:SER:O	2.17	0.45
21:N:138:GLU:O	21:N:142:GLU:HG3	2.17	0.45
21:N:192:LEU:O	21:N:195:THR:OG1	2.20	0.45
21:N:214:LEU:HD23	21:N:214:LEU:HA	1.76	0.45
21:N:444:HIS:O	21:N:448:LEU:HG	2.16	0.45
22:O:14:LEU:HA	22:O:16:MET:C	2.40	0.45
22:O:73:ILE:HG23	30:W:17:ARG:HH22	1.81	0.45
22:O:130:ASP:O	22:O:134:ALA:HB2	2.17	0.45
22:O:207:LEU:HA	22:O:207:LEU:HD23	1.82	0.45
22:O:257:ALA:HA	22:O:261:GLY:H	1.82	0.45
22:O:319:LEU:HD21	22:O:327:LEU:HD12	1.99	0.45
22:O:340:SER:HB2	23:P:357:TYR:N	2.32	0.45
23:P:112:LEU:HD22	23:P:115:ARG:NH1	2.32	0.45
23:P:123:ARG:CG	23:P:129:LYS:HE3	2.47	0.45
23:P:131:PHE:HE2	23:P:171:MET:SD	2.40	0.45
23:P:168:TYR:CB	23:P:176:LYS:HD2	2.45	0.45
23:P:233:GLU:C	23:P:237:VAL:HG23	2.41	0.45
23:P:407:ASN:C	23:P:409:SER:N	2.73	0.45
24:Q:63:GLN:O	24:Q:67:THR:OG1	2.26	0.45
24:Q:109:ASP:CB	24:Q:114:GLN:HE21	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:155:LEU:O	24:Q:159:ASN:N	2.32	0.45
24:Q:285:LYS:O	24:Q:290:THR:N	2.45	0.45
24:Q:336:ASN:O	24:Q:339:TYR:HB3	2.17	0.45
24:Q:409:TYR:HD2	25:R:398:ALA:O	2.00	0.45
25:R:49:PHE:HB3	25:R:53:LYS:HD2	1.99	0.45
25:R:198:ILE:CD1	25:R:200:LYS:HG2	2.41	0.45
25:R:410:LEU:O	25:R:414:LEU:HG	2.16	0.45
26:S:150:LYS:HG3	26:S:151:GLU:N	2.28	0.45
26:S:297:ILE:HG12	26:S:299:LYS:HZ2	1.81	0.45
26:S:377:TYR:CG	27:T:133:ILE:HD11	2.51	0.45
26:S:471:LEU:HB3	26:S:475:TYR:CZ	2.51	0.45
27:T:47:GLN:HB2	27:T:50:ILE:HG12	1.99	0.45
27:T:194:GLU:O	27:T:238:GLN:NE2	2.50	0.45
27:T:253:GLU:HG3	27:T:254:ASP:N	2.26	0.45
28:U:24:ARG:HD3	29:V:100:ARG:N	2.32	0.45
28:U:195:LYS:HE3	29:V:230:TYR:CA	2.47	0.45
28:U:195:LYS:HD3	29:V:233:LYS:H	1.81	0.45
29:V:106:GLY:HA3	29:V:137:VAL:HG22	1.97	0.45
30:W:104:LYS:C	30:W:106:GLN:H	2.25	0.45
33:Z:305:VAL:HG11	33:Z:918:ASP:HA	1.99	0.45
33:Z:308:LYS:NZ	33:Z:342:LEU:HD12	2.31	0.45
33:Z:394:TYR:O	33:Z:425:ILE:HG23	2.17	0.45
33:Z:623:ARG:CZ	33:Z:739:ALA:HB2	2.47	0.45
8:a:157:THR:HG22	8:a:163:TYR:HB3	1.98	0.45
10:c:66:LEU:HD13	10:c:212:GLU:HB2	1.99	0.45
10:c:73:ILE:HD11	10:c:108:VAL:HA	1.98	0.45
10:c:149:TYR:HD1	10:c:159:GLY:HA2	1.80	0.45
11:d:77:GLY:HA3	11:d:131:VAL:HG22	1.99	0.45
13:f:159:THR:OG1	13:f:160:ALA:N	2.50	0.45
14:g:41:LYS:HB2	14:g:148:LEU:HB2	1.99	0.45
14:g:109:ILE:HG12	14:g:142:ASP:HB3	1.98	0.45
6:k:148:TYR:CZ	6:k:150:PRO:HA	2.52	0.45
6:k:170:LYS:HE3	6:k:171:ARG:CZ	2.47	0.45
6:k:180:ILE:HG23	6:k:191:GLN:NE2	2.31	0.45
7:l:121:ALA:HB3	7:l:173:GLY:O	2.17	0.45
7:l:172:MET:H	7:l:192:SER:CB	2.28	0.45
7:l:226:GLU:HA	7:l:229:LEU:HD12	1.98	0.45
1:1:82:ALA:O	1:1:85:LYS:HB3	2.17	0.44
3:3:59:LYS:NZ	3:3:199:ALA:HA	2.32	0.44
4:4:108:ALA:O	4:4:112:LEU:HG	2.17	0.44
6:6:37:GLN:HA	6:6:43:LEU:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:123:GLY:N	7:7:171:SER:O	2.50	0.44
7:7:179:TYR:CD2	7:7:185:PRO:HG3	2.52	0.44
7:7:279:GLU:OE2	6:k:146:HIS:CE1	2.70	0.44
1:8:179:TYR:CB	1:8:185:GLY:HA2	2.47	0.44
1:8:225:ILE:HG12	1:8:232:ARG:HH21	1.83	0.44
2:9:77:PRO:HA	2:9:83:VAL:HG22	1.99	0.44
8:A:199:TRP:O	8:A:203:VAL:HG23	2.17	0.44
9:B:36:GLY:HA2	9:B:45:ILE:HA	1.99	0.44
9:B:244:ASN:HA	9:B:247:LEU:HB2	1.98	0.44
10:C:141:ASP:N	10:C:145:GLY:O	2.42	0.44
11:D:187:THR:HG22	11:D:189:GLU:N	2.32	0.44
13:F:49:LEU:CD1	13:F:210:ASN:HB3	2.47	0.44
13:F:176:LEU:HD13	14:G:58:LEU:HD23	2.00	0.44
15:H:65:GLU:O	15:H:69:VAL:HG23	2.17	0.44
15:H:335:GLU:HG3	15:H:336:LEU:N	2.31	0.44
15:H:400:ARG:HA	15:H:400:ARG:HD3	1.77	0.44
16:I:292:ARG:O	16:I:296:LYS:HG3	2.17	0.44
17:J:64:LEU:HD21	18:K:121:ARG:HE	1.81	0.44
17:J:153:LEU:O	17:J:156:GLN:N	2.50	0.44
17:J:252:SER:O	17:J:295:ASN:ND2	2.50	0.44
18:K:400:TYR:CE2	23:P:130:ILE:C	2.95	0.44
19:L:164:ASP:CB	19:L:265:GLU:HG2	2.46	0.44
19:L:375:ASP:OD2	19:L:378:ALA:HB3	2.16	0.44
19:L:418:ALA:O	19:L:422:VAL:HG23	2.17	0.44
20:M:331:ASP:CG	20:M:332:VAL:N	2.75	0.44
21:N:6:ALA:HB2	21:N:35:LEU:HB3	1.99	0.44
21:N:180:SER:O	21:N:184:LYS:HG3	2.17	0.44
22:O:45:LEU:HA	22:O:48:PHE:HB2	1.99	0.44
22:O:85:SER:O	22:O:88:ASP:HB2	2.17	0.44
22:O:152:ASP:HA	22:O:155:LYS:HB3	1.99	0.44
22:O:294:MET:HG2	22:O:356:ARG:HD2	1.08	0.44
23:P:125:VAL:HG23	23:P:126:THR:H	1.82	0.44
23:P:168:TYR:O	23:P:176:LYS:NZ	2.50	0.44
23:P:238:ALA:HA	23:P:241:LEU:HB2	1.99	0.44
23:P:280:LEU:HD22	23:P:283:LYS:HZ3	1.80	0.44
23:P:415:TRP:O	23:P:419:VAL:N	2.41	0.44
24:Q:430:ALA:CA	28:U:297:GLN:HE21	2.29	0.44
25:R:24:TYR:HB2	25:R:242:GLU:C	2.41	0.44
25:R:329:PHE:O	25:R:333:MET:N	2.43	0.44
27:T:196:SER:HB2	27:T:197:TYR:CE2	2.52	0.44
28:U:55:PRO:HB2	28:U:72:TYR:OH	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:174:LEU:HD21	29:V:210:THR:HG23	1.98	0.44
29:V:230:TYR:HB3	29:V:234:GLU:OE2	2.17	0.44
30:W:143:ASN:HD21	30:W:149:GLN:H	1.65	0.44
33:Z:221:VAL:O	33:Z:225:LEU:HG	2.17	0.44
33:Z:304:PRO:HB3	33:Z:342:LEU:HD11	1.99	0.44
33:Z:311:ALA:HA	33:Z:341:TYR:OH	2.17	0.44
33:Z:321:PHE:CE1	33:Z:331:GLY:HA2	2.52	0.44
8:a:199:TRP:O	8:a:203:VAL:HG23	2.18	0.44
9:b:139:HIS:HB2	9:b:145:PHE:CD1	2.52	0.44
10:c:144:TYR:HB2	10:c:147:GLN:NE2	2.24	0.44
13:f:144:LEU:HB3	13:f:156:LEU:O	2.17	0.44
14:g:147:HIS:HB3	14:g:149:TYR:CZ	2.52	0.44
3:h:33:LEU:HD11	3:h:119:ALA:HB3	1.99	0.44
4:i:163:ALA:HB1	4:i:187:ALA:HB1	1.99	0.44
6:k:120:ASP:OD2	6:k:122:LEU:HB2	2.17	0.44
1:l:133:LEU:HD22	1:l:137:GLY:O	2.17	0.44
2:2:49:TYR:N	2:2:52:GLY:O	2.45	0.44
2:2:206:ALA:O	2:2:210:ILE:HG12	2.16	0.44
2:2:220:ARG:NE	4:4:164:MET:SD	2.90	0.44
4:4:115:HIS:CE1	4:4:119:TYR:CE2	3.05	0.44
7:7:121:ALA:HB3	7:7:173:GLY:O	2.17	0.44
7:7:179:TYR:HA	7:7:184:GLY:O	2.18	0.44
7:7:197:LEU:HD23	7:7:197:LEU:HA	1.81	0.44
2:9:188:LEU:O	2:9:192:VAL:N	2.43	0.44
8:A:87:ILE:N	8:A:88:PRO:HD2	2.32	0.44
9:B:81:ASP:OD2	9:B:131:GLY:N	2.39	0.44
9:B:151:ASP:HB2	9:B:153:SER:OG	2.18	0.44
11:D:41:CYS:HA	11:D:138:PHE:HZ	1.82	0.44
11:D:116:VAL:HA	11:D:119:ARG:NH1	2.32	0.44
12:E:69:GLU:HB2	12:E:228:PHE:CD1	2.52	0.44
12:E:88:MET:O	12:E:92:ALA:N	2.28	0.44
12:E:171:ALA:O	12:E:176:SER:HB2	2.18	0.44
12:E:219:LEU:HD12	12:E:236:THR:HG23	1.98	0.44
15:H:69:VAL:HG13	16:I:180:THR:CG2	2.48	0.44
15:H:253:GLY:H	15:H:256:LYS:HB3	1.82	0.44
15:H:417:ALA:CB	16:I:367:ARG:HE	2.30	0.44
16:I:208:TYR:HE1	16:I:266:GLN:OE1	2.00	0.44
16:I:226:GLU:HA	16:I:267:THR:HG22	2.00	0.44
16:I:275:VAL:HB	16:I:278:GLU:HG3	1.98	0.44
16:I:282:LYS:CB	17:J:221:LYS:HA	2.37	0.44
17:J:155:LYS:O	17:J:159:GLU:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:289:ARG:HB2	19:L:334:ASP:HA	1.99	0.44
21:N:344:THR:N	21:N:374:ILE:O	2.43	0.44
21:N:738:GLN:HB3	21:N:741:TYR:HB2	1.99	0.44
22:O:73:ILE:HD12	22:O:73:ILE:H	1.81	0.44
22:O:162:SER:OG	22:O:164:PRO:HD2	2.17	0.44
22:O:215:TYR:O	22:O:219:ILE:HG12	2.17	0.44
22:O:324:VAL:HG13	22:O:328:VAL:CB	2.46	0.44
23:P:44:LYS:O	23:P:45:LYS:C	2.60	0.44
23:P:98:GLN:HG2	23:P:135:GLU:OE1	2.17	0.44
23:P:104:LEU:HD13	23:P:115:ARG:HA	1.99	0.44
23:P:305:THR:C	23:P:310:ARG:NH2	2.75	0.44
23:P:395:ARG:HH11	24:Q:361:HIS:C	2.25	0.44
23:P:423:LEU:HD11	29:V:239:ALA:N	2.32	0.44
24:Q:8:LEU:HB2	24:Q:50:ARG:HH12	1.81	0.44
26:S:211:ARG:O	26:S:215:MET:N	2.32	0.44
26:S:416:GLU:C	26:S:418:THR:H	2.26	0.44
28:U:37:ILE:HG23	28:U:92:TRP:C	2.41	0.44
28:U:137:TYR:CD1	28:U:156:HIS:HB2	2.52	0.44
28:U:202:SER:O	28:U:205:LYS:HB3	2.17	0.44
29:V:186:GLN:CB	29:V:190:HIS:HD2	2.30	0.44
31:X:36:LYS:CE	31:X:49:GLU:HB2	2.47	0.44
31:X:87:PHE:HE1	31:X:121:ILE:HG21	1.82	0.44
33:Z:170:GLU:HA	33:Z:226:GLU:CB	2.47	0.44
33:Z:232:LYS:HA	33:Z:235:GLN:HB3	2.00	0.44
33:Z:396:ASN:O	33:Z:398:LYS:N	2.50	0.44
33:Z:564:ARG:HG2	33:Z:595:MET:N	2.32	0.44
33:Z:624:LEU:HD11	33:Z:743:ILE:HG12	1.98	0.44
33:Z:958:ASN:HB2	33:Z:961:GLU:OE2	2.17	0.44
8:a:80:GLY:HA3	8:a:233:PHE:CD2	2.51	0.44
8:a:133:TYR:CD1	9:b:3:ASP:CG	2.95	0.44
9:b:16:GLY:O	9:b:17:LYS:HD2	2.17	0.44
9:b:36:GLY:HA2	9:b:45:ILE:HA	1.99	0.44
10:c:112:VAL:HG21	10:c:149:TYR:CD2	2.51	0.44
11:d:174:PHE:O	11:d:178:ASN:ND2	2.29	0.44
12:e:72:ARG:HE	12:e:226:ASP:C	2.26	0.44
13:f:117:GLN:HG2	14:g:87:HIS:HB2	1.98	0.44
3:h:23:MET:HB2	3:h:145:ILE:HG22	1.99	0.44
3:h:145:ILE:HD11	3:h:154:TYR:CD1	2.52	0.44
4:i:162:ALA:HB1	4:i:190:ALA:HB1	1.99	0.44
6:k:41:HIS:N	6:k:74:GLU:OE2	2.31	0.44
6:k:96:ARG:CZ	7:l:166:LYS:HB3	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:87:ILE:HB	7:l:255:VAL:HB	1.98	0.44
7:l:151:VAL:HG12	7:l:188:TYR:CD2	2.52	0.44
1:1:174:ASN:O	1:1:191:LEU:HD21	2.17	0.44
6:6:7:ILE:HD13	6:6:130:TYR:HB3	1.98	0.44
6:6:165:VAL:HG21	6:6:195:PHE:CE2	2.52	0.44
7:7:144:ARG:HD3	12:E:90:GLU:OE2	2.18	0.44
7:7:273:TRP:CZ2	5:j:201:LYS:HG3	2.52	0.44
1:8:96:PHE:HB3	13:F:89:ARG:NH1	2.32	0.44
8:A:20:SER:OG	8:A:24:ARG:N	2.50	0.44
9:B:16:GLY:O	9:B:17:LYS:HD2	2.17	0.44
11:D:37:LYS:HD2	11:D:145:PRO:HB2	2.00	0.44
12:E:208:MET:SD	12:E:212:LEU:HD12	2.58	0.44
14:G:147:HIS:HB3	14:G:149:TYR:CZ	2.52	0.44
14:G:218:TRP:CD1	14:G:218:TRP:N	2.84	0.44
15:H:47:ALA:HB3	33:Z:622:HIS:NE2	2.32	0.44
15:H:68:GLY:HA2	15:H:71:GLU:OE1	2.17	0.44
15:H:225:VAL:HA	15:H:350:LYS:HE3	1.98	0.44
15:H:362:ASP:O	15:H:365:LEU:N	2.47	0.44
16:I:280:ILE:C	16:I:281:GLN:CD	2.86	0.44
16:I:385:LYS:NZ	16:I:413:ASP:HA	2.32	0.44
17:J:170:HIS:CG	17:J:173:LEU:HG	2.53	0.44
17:J:269:GLN:O	17:J:272:MET:HB2	2.16	0.44
17:J:339:ARG:CZ	25:R:236:ALA:HB1	2.47	0.44
18:K:340:PHE:CD1	18:K:340:PHE:O	2.71	0.44
18:K:392:LEU:O	18:K:396:ARG:HG3	2.17	0.44
19:L:108:VAL:HB	19:L:141:LYS:O	2.18	0.44
19:L:109:MET:SD	19:L:126:ARG:CZ	3.05	0.44
19:L:113:SER:N	19:L:116:LYS:HB2	2.32	0.44
21:N:360:GLN:O	21:N:363:ALA:N	2.50	0.44
21:N:362:TRP:HD1	29:V:165:ILE:C	2.26	0.44
21:N:379:LEU:HA	21:N:412:TYR:CE1	2.48	0.44
21:N:469:VAL:HA	21:N:472:ASN:HD22	1.82	0.44
21:N:504:TYR:HD1	21:N:508:THR:CG2	2.31	0.44
21:N:526:TYR:C	21:N:528:ARG:H	2.25	0.44
22:O:45:LEU:HD21	30:W:14:GLU:CD	2.43	0.44
23:P:48:GLN:HG3	23:P:85:LYS:HG2	1.99	0.44
23:P:77:GLU:O	23:P:81:LEU:HG	2.17	0.44
23:P:220:TYR:CE2	23:P:224:LEU:HB2	2.52	0.44
23:P:267:PHE:CD1	23:P:270:LEU:HD12	2.51	0.44
23:P:272:PRO:HA	23:P:344:ARG:HD3	2.00	0.44
24:Q:138:SER:HB3	24:Q:157:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:219:ASP:HB3	24:Q:238:TYR:O	2.17	0.44
24:Q:358:GLU:CD	24:Q:360:SER:HB2	2.42	0.44
25:R:121:GLU:HG2	25:R:130:GLN:NE2	2.32	0.44
25:R:169:ASP:HA	25:R:172:LEU:HB2	2.00	0.44
25:R:395:ASN:C	25:R:397:ASN:HD22	2.24	0.44
26:S:153:GLU:HA	26:S:156:VAL:CG2	2.48	0.44
27:T:28:PRO:O	27:T:32:ILE:HG13	2.17	0.44
27:T:47:GLN:HG3	27:T:50:ILE:HD13	1.99	0.44
28:U:66:TRP:HE1	28:U:105:LYS:CE	2.31	0.44
28:U:114:THR:HB	28:U:118:PRO:HD3	2.00	0.44
28:U:300:LYS:O	28:U:304:GLN:HB2	2.17	0.44
29:V:67:ASP:CG	29:V:68:VAL:H	2.25	0.44
29:V:117:TRP:HA	29:V:156:PHE:CE2	2.52	0.44
29:V:142:ASP:CG	29:V:145:GLN:H	2.26	0.44
30:W:61:VAL:HG11	30:W:64:THR:HG22	2.00	0.44
30:W:179:ARG:HB3	30:W:184:ASN:ND2	2.33	0.44
31:X:62:ASP:OD1	31:X:63:PRO:HD2	2.17	0.44
31:X:77:PRO:O	31:X:78:ILE:HB	2.16	0.44
31:X:105:ASN:HB2	31:X:117:LYS:HD3	1.99	0.44
33:Z:112:LYS:HE3	33:Z:140:LEU:O	2.18	0.44
33:Z:123:ALA:CA	33:Z:126:TYR:HB3	2.48	0.44
33:Z:221:VAL:O	33:Z:224:LEU:N	2.51	0.44
33:Z:328:ASP:OD1	33:Z:332:ASN:ND2	2.50	0.44
33:Z:381:LEU:HB3	33:Z:846:PHE:HE1	1.83	0.44
33:Z:390:LEU:HA	33:Z:857:LEU:HA	1.99	0.44
33:Z:758:LEU:HD23	33:Z:759:ARG:N	2.32	0.44
33:Z:784:SER:HG	33:Z:788:PRO:HB3	1.82	0.44
33:Z:915:ALA:HB1	33:Z:983:LEU:HD11	1.99	0.44
8:a:63:LEU:HD22	14:g:176:LEU:HB3	1.99	0.44
9:b:151:ASP:HB2	9:b:153:SER:OG	2.18	0.44
10:c:36:ILE:HA	10:c:164:SER:HA	2.00	0.44
12:e:18:GLU:OE1	12:e:18:GLU:N	2.49	0.44
13:f:29:ILE:O	13:f:162:GLY:HA2	2.17	0.44
13:f:96:SER:O	13:f:100:ASN:HA	2.18	0.44
13:f:114:ASP:O	13:f:117:GLN:HB3	2.18	0.44
4:i:201:ASN:HB3	4:i:221:THR:HG22	2.00	0.44
6:k:7:ILE:HD13	6:k:130:TYR:HB3	1.98	0.44
6:k:67:TYR:HA	6:k:70:ARG:NH1	2.32	0.44
6:k:142:SER:O	6:k:146:HIS:N	2.44	0.44
7:l:123:GLY:N	7:l:171:SER:O	2.50	0.44
1:1:179:TYR:CB	1:1:185:GLY:HA2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:26:THR:HG22	3:3:31:VAL:HB	2.00	0.44
4:4:163:ALA:HB1	4:4:187:ALA:HB1	1.99	0.44
6:6:67:TYR:O	6:6:70:ARG:HB3	2.17	0.44
6:6:67:TYR:CD2	6:6:75:LEU:HD11	2.53	0.44
6:6:120:ASP:OD2	6:6:122:LEU:HB2	2.17	0.44
6:6:148:TYR:CZ	6:6:150:PRO:HA	2.52	0.44
7:7:94:ARG:NH2	7:7:247:GLY:HA3	2.33	0.44
7:7:226:GLU:HA	7:7:229:LEU:HD12	1.98	0.44
1:8:213:ARG:NH1	4:i:58:LYS:H	2.15	0.44
9:B:200:VAL:HG11	9:B:204:PHE:HB2	1.98	0.44
9:B:242:GLU:O	9:B:245:ASP:HB2	2.17	0.44
11:D:77:GLY:HA3	11:D:131:VAL:HG22	1.99	0.44
15:H:206:VAL:O	15:H:262:ALA:HA	2.16	0.44
15:H:277:SER:OG	16:I:335:GLU:HB2	2.18	0.44
16:I:146:ILE:HG22	16:I:156:TYR:HD1	1.83	0.44
16:I:277:SER:HB3	17:J:267:GLU:HG3	2.00	0.44
16:I:283:TYR:C	17:J:223:ILE:HD11	2.41	0.44
17:J:72:VAL:N	18:K:118:TYR:HD1	2.14	0.44
17:J:78:ILE:HG21	17:J:107:LEU:HD12	2.00	0.44
17:J:141:LYS:HA	17:J:209:LYS:HG3	2.00	0.44
17:J:208:CYS:SG	17:J:242:PRO:HB2	2.58	0.44
19:L:283:VAL:O	19:L:333:LEU:HD21	2.17	0.44
19:L:302:GLN:NE2	19:L:305:LEU:HD23	2.32	0.44
19:L:309:LEU:HD13	19:L:342:ARG:NH1	2.32	0.44
19:L:369:LYS:HZ3	19:L:408:ASP:CG	2.18	0.44
21:N:50:TYR:HA	21:N:58:ARG:HB2	2.00	0.44
21:N:65:ALA:O	21:N:69:TYR:N	2.48	0.44
21:N:189:LEU:O	21:N:192:LEU:HB3	2.18	0.44
21:N:223:LEU:HD22	21:N:897:LYS:CE	2.44	0.44
21:N:352:ASN:HB3	21:N:355:TRP:H	1.83	0.44
21:N:460:ILE:HG13	21:N:461:GLU:N	2.31	0.44
21:N:733:LEU:O	21:N:737:SER:N	2.51	0.44
21:N:892:PRO:HD3	21:N:905:LEU:CD1	2.46	0.44
22:O:147:ARG:CA	22:O:150:LEU:HB3	2.47	0.44
23:P:225:VAL:O	23:P:228:SER:N	2.51	0.44
23:P:229:LEU:O	23:P:232:ARG:HG3	2.17	0.44
25:R:211:LYS:O	25:R:215:GLY:N	2.41	0.44
25:R:222:ARG:HA	25:R:224:PHE:CE2	2.53	0.44
25:R:362:ALA:O	25:R:366:ASN:ND2	2.50	0.44
25:R:379:CYS:SG	25:R:381:ILE:HB	2.57	0.44
26:S:213:THR:O	26:S:216:LYS:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:214:MET:HB3	26:S:233:LEU:HB3	2.00	0.44
26:S:214:MET:O	26:S:218:LEU:HG	2.17	0.44
26:S:233:LEU:O	26:S:236:LEU:HB3	2.17	0.44
26:S:338:MET:HA	26:S:340:LYS:N	2.31	0.44
26:S:385:SER:O	26:S:389:LYS:N	2.32	0.44
26:S:436:ILE:HG22	26:S:437:ASN:N	2.32	0.44
28:U:58:GLU:OE2	28:U:100:ARG:NH1	2.50	0.44
28:U:140:ILE:CB	28:U:153:THR:CB	2.92	0.44
29:V:31:SER:O	29:V:34:LEU:HB3	2.18	0.44
31:X:22:ARG:HH21	31:X:78:ILE:HG23	1.82	0.44
33:Z:306:MET:HA	33:Z:973:TYR:CB	2.46	0.44
33:Z:358:TYR:CD1	33:Z:962:ARG:N	2.86	0.44
33:Z:397:ASP:HB2	33:Z:401:VAL:HG23	1.99	0.44
33:Z:454:GLY:O	33:Z:457:ILE:HB	2.17	0.44
33:Z:888:LEU:HD13	33:Z:901:PHE:HA	1.99	0.44
9:b:68:THR:N	9:b:71:ILE:O	2.41	0.44
9:b:93:ALA:O	9:b:97:TYR:HB3	2.18	0.44
9:b:242:GLU:O	9:b:245:ASP:HB2	2.17	0.44
9:b:243:ILE:O	9:b:247:LEU:HG	2.16	0.44
10:c:148:LEU:HB3	10:c:160:TRP:O	2.17	0.44
10:c:160:TRP:HH2	11:d:52:LEU:HD23	1.83	0.44
10:c:186:VAL:HB	10:c:217:ARG:HH21	1.83	0.44
11:d:12:SER:O	11:d:15:GLY:N	2.39	0.44
11:d:187:THR:HG22	11:d:189:GLU:N	2.32	0.44
13:f:69:HIS:ND1	13:f:70:MET:HB2	2.31	0.44
14:g:35:THR:HG21	14:g:66:LYS:NZ	2.33	0.44
3:h:172:ASP:HA	3:h:175:LYS:HB3	1.99	0.44
5:j:94:SER:O	5:j:97:GLU:HB3	2.18	0.44
6:k:23:ARG:HD3	6:k:23:ARG:HA	1.73	0.44
1:1:105:ILE:HG13	1:1:142:TYR:HE2	1.82	0.44
4:4:32:ILE:HG22	4:4:45:ALA:CB	2.48	0.44
4:4:208:GLU:OE1	4:4:211:LYS:HD3	2.17	0.44
5:5:33:SER:HA	7:l:244:ALA:HB3	2.00	0.44
6:6:67:TYR:HA	6:6:70:ARG:NH1	2.31	0.44
7:7:82:ARG:NE	7:7:185:PRO:O	2.49	0.44
1:8:56:SER:HB3	1:8:59:GLU:HB2	2.00	0.44
1:8:174:ASN:O	1:8:191:LEU:HD21	2.17	0.44
2:9:58:ASP:N	2:9:74:ARG:NH2	2.66	0.44
8:A:135:ARG:HD3	14:G:13:SER:O	2.18	0.44
9:B:68:THR:O	9:B:71:ILE:N	2.39	0.44
9:B:243:ILE:O	9:B:247:LEU:HG	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:102:TYR:O	10:C:104:GLU:HG3	2.18	0.44
10:C:177:GLN:HA	11:D:54:LEU:HD22	1.99	0.44
11:D:120:TYR:CD1	11:D:126:VAL:HG21	2.53	0.44
12:E:72:ARG:HE	12:E:226:ASP:C	2.26	0.44
13:F:11:VAL:HG21	14:G:128:SER:HA	1.99	0.44
13:F:34:VAL:HG23	13:F:165:SER:HB3	1.98	0.44
15:H:280:VAL:H	16:I:331:ARG:HH21	1.64	0.44
15:H:282:LYS:NZ	17:J:223:ILE:HB	2.26	0.44
17:J:40:ASN:HB2	18:K:65:GLU:OE2	2.17	0.44
17:J:82:LYS:HA	17:J:104:VAL:HG11	1.99	0.44
17:J:174:PHE:HD2	17:J:181:GLN:CB	2.29	0.44
17:J:234:PHE:CZ	17:J:278:GLN:HG2	2.53	0.44
17:J:331:HIS:ND1	17:J:334:LYS:NZ	2.66	0.44
18:K:164:ASN:CG	18:K:167:PRO:HA	2.43	0.44
20:M:197:ILE:C	20:M:200:PRO:HD2	2.42	0.44
21:N:141:ILE:HA	21:N:144:CYS:HB2	1.99	0.44
21:N:466:LEU:HB3	21:N:481:ALA:HB1	1.98	0.44
21:N:614:ASN:ND2	21:N:616:HIS:HB2	2.30	0.44
21:N:758:VAL:HG23	21:N:874:ILE:HG13	2.00	0.44
22:O:206:THR:O	22:O:209:GLU:HB3	2.18	0.44
23:P:115:ARG:C	23:P:119:ILE:HG12	2.42	0.44
23:P:168:TYR:HB3	23:P:170:SER:CA	2.47	0.44
23:P:245:TYR:CD1	23:P:260:VAL:HB	2.52	0.44
23:P:306:ASN:HD22	23:P:349:ASN:N	2.15	0.44
23:P:373:GLU:O	23:P:376:THR:HB	2.18	0.44
24:Q:8:LEU:CD1	24:Q:57:SER:HB3	2.47	0.44
24:Q:39:SER:C	24:Q:46:VAL:HG13	2.42	0.44
24:Q:383:ASP:CG	24:Q:384:LYS:CE	2.85	0.44
25:R:33:LEU:HD13	25:R:47:ALA:HB2	2.00	0.44
25:R:421:VAL:HG12	25:R:422:ARG:H	1.83	0.44
26:S:293:ILE:HD13	26:S:317:HIS:HA	1.98	0.44
26:S:330:LEU:CD1	26:S:346:TYR:HA	2.48	0.44
27:T:161:TRP:CD2	27:T:210:PHE:CD2	3.06	0.44
28:U:70:HIS:ND1	28:U:73:ILE:HD12	2.32	0.44
28:U:93:TYR:CB	28:U:121:LEU:HB3	2.47	0.44
28:U:299:LYS:HE2	28:U:303:GLU:OE1	2.18	0.44
29:V:278:LYS:NZ	29:V:282:GLU:OE1	2.51	0.44
29:V:292:ILE:HG22	29:V:293:VAL:N	2.33	0.44
33:Z:357:ILE:CG2	33:Z:959:HIS:O	2.60	0.44
33:Z:744:ALA:HB1	33:Z:775:MET:HG2	1.99	0.44
33:Z:819:GLY:HA2	33:Z:827:LEU:CD2	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:20:SER:OG	8:a:24:ARG:N	2.50	0.44
8:a:171:THR:HA	8:a:175:GLN:OE1	2.17	0.44
8:a:239:GLU:O	8:a:243:GLU:N	2.26	0.44
10:c:191:GLU:HG2	10:c:195:LYS:HG2	2.00	0.44
10:c:196:THR:O	10:c:200:THR:OG1	2.32	0.44
11:d:17:ILE:HG22	11:d:20:VAL:H	1.82	0.44
12:e:119:LEU:HA	12:e:122:ARG:HD2	1.98	0.44
12:e:147:HIS:CE1	12:e:224:LYS:HD2	2.52	0.44
13:f:50:LYS:HG2	13:f:61:LYS:HA	2.00	0.44
14:g:12:ASN:HB3	14:g:126:TYR:O	2.16	0.44
14:g:115:ARG:NH2	3:h:89:TYR:HE2	2.16	0.44
4:i:105:VAL:HG21	4:i:138:HIS:HB2	1.98	0.44
5:j:65:GLU:O	5:j:69:TYR:N	2.25	0.44
7:l:179:TYR:HA	7:l:184:GLY:O	2.18	0.44
7:l:251:ASN:HB3	7:l:262:TYR:HE1	1.83	0.44
7:l:285:VAL:HG12	7:l:286:ILE:O	2.18	0.44
2:2:54:ILE:HD11	2:2:203:VAL:HG13	1.99	0.44
2:2:183:MET:HG2	4:4:161:LEU:HB3	1.99	0.44
3:3:152:PHE:CE2	3:3:185:ASP:HB2	2.51	0.44
6:6:170:LYS:HE3	6:6:171:ARG:CZ	2.47	0.44
6:6:193:ASP:OD1	6:6:194:ASP:N	2.50	0.44
7:7:268:VAL:HG11	5:j:205:ASP:HB3	1.99	0.44
1:8:105:ILE:HG13	1:8:142:TYR:HE2	1.82	0.44
1:8:219:ASP:OD1	1:8:240:ARG:HA	2.18	0.44
2:9:101:LYS:O	2:9:104:VAL:HB	2.18	0.44
2:9:219:TYR:OH	2:9:250:MET:HA	2.17	0.44
9:B:93:ALA:O	9:B:97:TYR:HB3	2.18	0.44
9:B:108:LYS:HG3	9:B:109:LEU:N	2.33	0.44
10:C:4:ARG:HA	11:D:6:ARG:HH12	1.82	0.44
10:C:47:ALA:HB2	10:C:213:PHE:CD1	2.52	0.44
10:C:66:LEU:HD13	10:C:212:GLU:HB2	1.99	0.44
10:C:106:ILE:HD11	10:C:110:ILE:HG22	1.99	0.44
11:D:192:VAL:O	11:D:195:THR:HB	2.17	0.44
13:F:50:LYS:HG3	13:F:212:SER:HB2	1.98	0.44
13:F:144:LEU:HB3	13:F:156:LEU:O	2.17	0.44
14:G:41:LYS:HB2	14:G:148:LEU:HB2	1.99	0.44
15:H:200:VAL:HG13	15:H:272:ILE:HA	1.98	0.44
16:I:118:GLU:HG3	16:I:122:GLN:HG3	2.00	0.44
16:I:176:LEU:HD23	16:I:183:ILE:HA	1.99	0.44
16:I:404:LEU:O	16:I:408:VAL:HG23	2.17	0.44
17:J:26:LYS:CE	18:K:48:TYR:HE1	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:253:ILE:HA	17:J:295:ASN:HD21	1.82	0.44
17:J:382:PHE:O	17:J:386:VAL:HG23	2.18	0.44
18:K:260:LEU:HG	18:K:264:ASN:ND2	2.33	0.44
18:K:273:GLU:OE1	18:K:319:ASN:N	2.36	0.44
18:K:347:ARG:O	18:K:350:ARG:HB3	2.18	0.44
19:L:164:ASP:OD1	19:L:165:PRO:N	2.51	0.44
19:L:264:ARG:HG2	19:L:311:GLN:HE21	1.82	0.44
19:L:368:VAL:HB	19:L:370:LYS:HE3	1.99	0.44
21:N:43:LEU:O	21:N:47:GLU:HG2	2.18	0.44
21:N:161:TYR:HA	21:N:202:PHE:CZ	2.52	0.44
21:N:256:GLN:HA	21:N:259:PHE:HB2	1.99	0.44
22:O:149:LEU:HD23	22:O:152:ASP:OD2	2.18	0.44
22:O:341:ILE:N	23:P:356:TYR:O	2.51	0.44
22:O:342:ASP:OD2	22:O:345:ASN:HB2	2.17	0.44
23:P:45:LYS:HG3	23:P:51:ASP:HB3	2.00	0.44
23:P:100:VAL:O	23:P:104:LEU:N	2.32	0.44
23:P:115:ARG:NH2	23:P:146:ILE:HG13	2.24	0.44
23:P:396:PRO:HG2	24:Q:356:CYS:HB3	1.99	0.44
24:Q:186:HIS:C	24:Q:189:ARG:H	2.25	0.44
24:Q:404:ASN:ND2	25:R:393:PRO:CD	2.64	0.44
25:R:196:SER:O	25:R:199:GLU:OE2	2.36	0.44
25:R:381:ILE:HG23	26:S:396:SER:CB	2.48	0.44
25:R:382:ASP:CG	26:S:402:ILE:HD13	2.39	0.44
25:R:410:LEU:HB3	25:R:414:LEU:HD21	1.98	0.44
26:S:180:ASN:CG	26:S:183:LEU:HG	2.43	0.44
26:S:277:SER:O	26:S:280:ASN:N	2.51	0.44
26:S:411:LEU:CB	26:S:419:VAL:HG22	2.48	0.44
26:S:460:VAL:HG13	26:S:463:GLU:OE1	2.17	0.44
27:T:34:LEU:O	27:T:38:ASN:N	2.51	0.44
27:T:129:LEU:O	27:T:132:HIS:CD2	2.70	0.44
27:T:226:TRP:CG	27:T:235:PHE:HE1	2.35	0.44
28:U:119:LEU:HD11	28:U:136:ALA:HB1	2.00	0.44
29:V:29:ILE:H	29:V:203:TYR:CA	2.26	0.44
29:V:74:SER:HB2	29:V:82:ALA:HB1	1.99	0.44
29:V:256:GLU:HG3	29:V:260:GLU:OE2	2.17	0.44
31:X:32:GLU:O	31:X:50:TRP:HA	2.18	0.44
31:X:59:ARG:HH21	31:X:61:LEU:HD11	1.81	0.44
33:Z:138:ARG:HE	33:Z:158:ALA:HB2	1.82	0.44
33:Z:196:SER:OG	33:Z:201:LEU:HD11	2.18	0.44
33:Z:204:CYS:HA	33:Z:207:ILE:HB	1.99	0.44
33:Z:419:VAL:HB	33:Z:450:GLY:HA3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:453:LEU:O	33:Z:457:ILE:HG13	2.18	0.44
33:Z:471:LEU:O	33:Z:474:LEU:HB3	2.18	0.44
33:Z:534:PHE:H	33:Z:573:LEU:HD22	1.83	0.44
8:a:125:SER:HB3	8:a:159:PRO:O	2.18	0.44
8:a:225:VAL:HG11	8:a:236:LEU:HD12	1.99	0.44
9:b:108:LYS:HG3	9:b:109:LEU:N	2.33	0.44
10:c:86:ILE:O	10:c:90:THR:HG23	2.17	0.44
10:c:159:GLY:HA3	11:d:59:ILE:HG13	1.99	0.44
11:d:32:CYS:HB2	11:d:166:ARG:O	2.17	0.44
12:e:78:MET:HB2	12:e:140:VAL:HG21	1.98	0.44
13:f:39:ARG:HH21	14:g:60:VAL:HG21	1.82	0.44
14:g:103:TYR:O	14:g:105:THR:N	2.50	0.44
3:h:40:THR:HG22	3:h:45:ILE:HA	1.99	0.44
3:h:59:LYS:NZ	3:h:199:ALA:HA	2.33	0.44
5:j:58:THR:O	5:j:62:THR:OG1	2.28	0.44
6:k:56:PHE:HD1	6:k:98:TYR:CE2	2.36	0.44
7:l:226:GLU:O	7:l:230:TYR:N	2.28	0.44
2:2:219:TYR:CE1	3:3:48:ARG:NH1	2.86	0.44
2:2:266:ILE:HD11	3:3:55:ARG:CD	2.48	0.44
3:3:40:THR:HG22	3:3:45:ILE:HA	1.98	0.44
3:3:145:ILE:HD11	3:3:154:TYR:CD1	2.52	0.44
4:4:65:ARG:NH1	9:B:224:TYR:OH	2.51	0.44
4:4:74:GLY:HA2	4:4:126:TYR:O	2.18	0.44
6:6:16:ALA:HA	6:6:180:ILE:O	2.17	0.44
1:8:32:LEU:HA	1:8:157:ALA:HA	2.00	0.44
1:8:57:ARG:NH1	1:8:219:ASP:OD1	2.51	0.44
1:8:132:GLY:O	1:8:140:ALA:N	2.28	0.44
1:8:196:VAL:O	1:8:199:VAL:HB	2.18	0.44
2:9:44:VAL:HG13	2:9:57:ALA:HB2	2.00	0.44
2:9:54:ILE:HD11	2:9:203:VAL:HG13	1.99	0.44
8:A:171:THR:HA	8:A:175:GLN:OE1	2.17	0.44
12:E:156:PHE:HD1	12:E:166:ARG:HA	1.79	0.44
14:G:103:TYR:O	14:G:105:THR:N	2.50	0.44
15:H:369:GLY:N	15:H:372:ASP:OD1	2.51	0.44
16:I:119:GLU:HA	16:I:122:GLN:OE1	2.18	0.44
16:I:430:ALA:HA	16:I:433:GLU:OE1	2.18	0.44
17:J:111:GLN:NE2	17:J:128:ASN:HB2	2.32	0.44
18:K:74:HIS:CA	21:N:576:VAL:HG13	2.48	0.44
19:L:221:TYR:CZ	19:L:348:GLU:HB3	2.53	0.44
19:L:296:SER:H	19:L:298:ASP:H	1.64	0.44
20:M:32:THR:HA	20:M:35:LYS:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:12:LEU:HA	21:N:15:GLU:OE1	2.18	0.44
21:N:124:TYR:O	21:N:162:ARG:NH1	2.45	0.44
21:N:444:HIS:HB2	21:N:477:SER:HA	1.99	0.44
21:N:651:PHE:HB2	21:N:694:LEU:HD13	1.99	0.44
21:N:653:ARG:O	21:N:657:MET:N	2.27	0.44
23:P:396:PRO:CD	24:Q:357:VAL:CG1	2.87	0.44
24:Q:1:MET:HG2	24:Q:10:GLU:OE1	2.18	0.44
24:Q:275:ILE:HG22	24:Q:279:LYS:NZ	2.32	0.44
24:Q:339:TYR:HD1	24:Q:342:LEU:HD12	0.77	0.44
25:R:31:PHE:O	25:R:35:GLN:HG2	2.17	0.44
25:R:271:ILE:CG2	25:R:272:ASP:H	2.30	0.44
26:S:56:SER:HA	26:S:57:LEU:HA	1.42	0.44
26:S:293:ILE:HA	26:S:296:ALA:HB3	1.99	0.44
26:S:348:LEU:O	26:S:352:VAL:HG23	2.18	0.44
27:T:56:MET:O	27:T:59:LYS:HB3	2.18	0.44
27:T:91:SER:OG	27:T:93:ASN:OD1	2.33	0.44
27:T:174:PHE:HE1	27:T:177:PHE:HD2	1.61	0.44
29:V:257:GLU:OE2	29:V:284:ALA:HA	2.18	0.44
31:X:22:ARG:NH2	31:X:86:ILE:HD13	2.32	0.44
31:X:85:ARG:H	31:X:101:LEU:HD22	1.82	0.44
33:Z:318:LYS:O	33:Z:321:PHE:N	2.51	0.44
33:Z:318:LYS:HD2	33:Z:874:ASN:OD1	2.18	0.44
33:Z:614:VAL:O	33:Z:616:LEU:N	2.51	0.44
8:a:87:ILE:N	8:a:88:PRO:HD2	2.32	0.44
9:b:173:THR:HG22	9:b:177:LYS:HZ1	1.83	0.44
9:b:186:GLU:O	9:b:189:ILE:HB	2.16	0.44
9:b:190:HIS:CD2	9:b:194:LEU:HD11	2.52	0.44
9:b:224:TYR:OH	4:i:65:ARG:NH1	2.51	0.44
10:c:33:GLY:HA2	10:c:51:LYS:HD2	2.00	0.44
10:c:141:ASP:OD1	10:c:144:TYR:N	2.50	0.44
10:c:242:THR:C	10:c:244:ILE:H	2.24	0.44
11:d:41:CYS:HA	11:d:138:PHE:HZ	1.82	0.44
14:g:78:TYR:HB3	14:g:136:THR:OG1	2.17	0.44
3:h:15:GLU:HB3	4:i:145:HIS:CB	2.47	0.44
3:h:26:THR:HG22	3:h:31:VAL:HB	2.00	0.44
3:h:85:TYR:CZ	3:h:89:TYR:HB2	2.52	0.44
3:h:152:PHE:CE2	3:h:185:ASP:HB2	2.51	0.44
6:k:67:TYR:CD2	6:k:75:LEU:HD11	2.53	0.44
7:l:97:ALA:O	7:l:100:TRP:HB3	2.17	0.44
1:1:109:ALA:HA	1:1:144:PHE:CZ	2.53	0.44
1:1:176:LYS:C	1:1:178:GLN:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:198:GLU:HA	1:1:201:LYS:HD2	2.00	0.44
1:1:215:ILE:HG13	1:1:216:GLN:N	2.33	0.44
2:2:132:VAL:O	2:2:136:ARG:N	2.32	0.44
3:3:22:ILE:HB	3:3:63:CYS:HB3	1.99	0.44
4:4:162:ALA:HB1	4:4:190:ALA:HB1	1.99	0.44
5:5:94:SER:O	5:5:97:GLU:HB3	2.18	0.44
7:7:76:THR:CG2	7:7:108:LYS:HE2	2.47	0.44
7:7:188:TYR:HA	7:7:198:LYS:HA	2.00	0.44
7:7:215:LEU:O	7:7:219:TYR:N	2.48	0.44
1:8:198:GLU:HA	1:8:201:LYS:HD2	2.00	0.44
2:9:257:ASP:OD2	4:i:152:TYR:OH	2.32	0.44
8:A:125:SER:HB3	8:A:159:PRO:O	2.18	0.44
9:B:18:LEU:HB2	9:B:21:ILE:HD12	2.00	0.44
10:C:86:ILE:O	10:C:90:THR:HG23	2.17	0.44
12:E:31:ILE:HD11	12:E:160:PRO:HG2	2.00	0.44
12:E:128:SER:H	13:F:125:GLY:HA3	1.83	0.44
12:E:201:LEU:HD13	12:E:219:LEU:HD11	1.99	0.44
14:G:109:ILE:HB	14:G:110:PRO:HD3	1.99	0.44
15:H:23:ASP:N	33:Z:244:ARG:HH21	2.16	0.44
15:H:256:LYS:NZ	15:H:355:THR:O	2.51	0.44
15:H:262:ALA:O	15:H:266:ARG:N	2.39	0.44
15:H:336:LEU:HG	15:H:370:ARG:HH21	1.82	0.44
15:H:420:ARG:HD2	16:I:370:ARG:HH12	1.82	0.44
16:I:146:ILE:CG1	16:I:147:VAL:N	2.80	0.44
16:I:284:LEU:HD23	16:I:328:GLU:HB2	2.00	0.44
16:I:403:ASN:O	16:I:406:THR:HB	2.18	0.44
17:J:202:VAL:O	17:J:206:THR:N	2.37	0.44
18:K:169:VAL:O	18:K:225:ALA:HA	2.17	0.44
18:K:240:SER:OG	19:L:303:ARG:HA	2.18	0.44
18:K:252:ARG:O	18:K:255:ARG:HB3	2.18	0.44
18:K:270:PHE:HE2	18:K:272:ASP:OD1	2.01	0.44
18:K:365:GLU:HB3	18:K:404:GLN:H	1.82	0.44
19:L:298:ASP:O	19:L:301:ILE:N	2.51	0.44
19:L:407:ARG:HA	19:L:407:ARG:HD3	1.82	0.44
19:L:407:ARG:NE	19:L:411:ASN:HD22	2.14	0.44
20:M:318:ASP:CB	20:M:321:VAL:HG22	2.48	0.44
20:M:354:GLU:O	20:M:380:ALA:HB1	2.18	0.44
21:N:85:ALA:C	21:N:87:ASP:H	2.26	0.44
21:N:111:GLN:HA	21:N:114:SER:HB3	1.98	0.44
21:N:525:ASN:OD1	21:N:528:ARG:NH1	2.51	0.44
21:N:684:SER:O	21:N:688:ASN:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:172:TYR:HD2	22:O:198:THR:HG1	1.59	0.44
22:O:225:ASP:O	22:O:225:ASP:OD1	2.35	0.44
22:O:250:TRP:O	22:O:253:GLN:N	2.50	0.44
22:O:387:ARG:HB3	27:T:266:TYR:OH	2.18	0.44
23:P:261:LEU:HD12	23:P:264:ILE:HB	1.98	0.44
24:Q:54:GLN:O	24:Q:58:ILE:HG13	2.17	0.44
24:Q:178:HIS:HB3	24:Q:197:SER:C	2.43	0.44
24:Q:240:PHE:O	24:Q:244:GLU:HG2	2.18	0.44
24:Q:273:ASN:HB3	24:Q:306:TYR:CE2	2.51	0.44
25:R:53:LYS:HB3	25:R:59:MET:CE	2.45	0.44
25:R:58:GLU:HG3	25:R:144:ILE:HG12	1.99	0.44
25:R:403:LEU:HD11	26:S:464:ARG:CD	2.47	0.44
26:S:297:ILE:HG12	26:S:299:LYS:NZ	2.33	0.44
26:S:402:ILE:HG22	26:S:403:SER:H	1.83	0.44
26:S:407:ILE:HG21	26:S:443:ILE:HG21	2.00	0.44
26:S:464:ARG:O	26:S:467:PHE:N	2.51	0.44
28:U:60:GLU:HG3	28:U:100:ARG:HD3	2.00	0.44
29:V:57:PHE:HA	29:V:62:THR:O	2.18	0.44
29:V:60:ASP:C	29:V:62:THR:H	2.24	0.44
30:W:25:ARG:O	30:W:29:GLN:HG3	2.17	0.44
33:Z:241:THR:O	33:Z:242:PHE:CG	2.70	0.44
33:Z:601:VAL:HG11	33:Z:746:ILE:CD1	2.46	0.44
33:Z:821:GLY:HA2	33:Z:860:GLY:C	2.43	0.44
33:Z:823:ASN:HA	33:Z:831:LEU:HD12	2.00	0.44
8:a:73:PHE:CE2	8:a:90:ALA:HB1	2.51	0.44
8:a:108:TYR:CZ	4:i:95:HIS:HD2	2.36	0.44
8:a:133:TYR:CD1	8:a:133:TYR:N	2.85	0.44
9:b:1:MET:H1	14:g:126:TYR:CB	2.31	0.44
11:d:101:GLU:OE1	7:l:152:ALA:HB1	2.17	0.44
11:d:120:TYR:CD1	11:d:126:VAL:HG21	2.53	0.44
12:e:177:GLU:O	12:e:180:GLN:HB3	2.18	0.44
12:e:193:LEU:O	12:e:197:GLU:HG3	2.18	0.44
13:f:38:LEU:O	13:f:45:VAL:N	2.33	0.44
13:f:44:ALA:O	13:f:215:ILE:HG13	2.18	0.44
13:f:171:TYR:CD2	13:f:196:ALA:HA	2.52	0.44
14:g:78:TYR:HB3	14:g:136:THR:HA	1.99	0.44
14:g:112:PHE:CZ	14:g:116:LEU:HD11	2.53	0.44
14:g:170:GLN:CD	14:g:170:GLN:N	2.75	0.44
4:i:87:LEU:O	4:i:90:SER:HB3	2.17	0.44
5:j:169:GLN:C	5:j:173:ASN:HD22	2.19	0.44
6:k:129:PRO:HB2	6:k:130:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:87:ILE:O	7:l:255:VAL:N	2.46	0.44
7:l:120:MET:HE2	7:l:128:GLN:HB2	1.99	0.44
7:l:187:ILE:O	7:l:198:LYS:HA	2.18	0.44
7:l:188:TYR:HA	7:l:198:LYS:HA	2.00	0.44
1:1:213:ARG:NH1	4:4:58:LYS:HG3	2.33	0.44
2:2:101:LYS:O	2:2:104:VAL:HB	2.18	0.44
3:3:23:MET:HB2	3:3:145:ILE:HG22	1.99	0.44
4:4:101:ARG:HD3	8:A:149:GLU:OE1	2.17	0.44
4:4:129:VAL:O	4:4:140:PHE:N	2.45	0.44
5:5:87:PHE:O	5:5:91:VAL:HG23	2.18	0.44
7:7:144:ARG:O	11:D:111:ARG:NH1	2.47	0.44
7:7:285:VAL:HG12	7:7:286:ILE:O	2.18	0.44
1:8:176:LYS:C	1:8:178:GLN:H	2.26	0.44
10:C:108:VAL:HG21	10:C:139:GLY:HA3	1.99	0.44
11:D:17:ILE:HG22	11:D:20:VAL:H	1.82	0.44
15:H:153:ALA:HB1	15:H:155:PHE:CZ	2.53	0.44
15:H:206:VAL:HG21	15:H:258:LEU:HD22	1.99	0.44
15:H:340:LEU:HD23	15:H:370:ARG:CZ	2.48	0.44
16:I:122:GLN:O	16:I:126:ILE:HG13	2.18	0.44
16:I:357:LYS:HB3	16:I:360:THR:CG2	2.47	0.44
17:J:84:VAL:HG11	17:J:122:LEU:HD11	1.99	0.44
17:J:339:ARG:NH1	25:R:236:ALA:HB1	2.32	0.44
17:J:384:LEU:CD2	24:Q:199:THR:HG22	2.48	0.44
18:K:218:GLY:O	18:K:222:LEU:HG	2.17	0.44
18:K:229:SER:O	18:K:231:LYS:HG3	2.17	0.44
19:L:276:CYS:O	19:L:322:LYS:N	2.43	0.44
19:L:366:ALA:HA	19:L:370:LYS:HD2	2.00	0.44
20:M:117:ALA:HB2	20:M:131:MET:HG2	1.99	0.44
21:N:53:ASP:OD1	21:N:53:ASP:N	2.50	0.44
21:N:613:HIS:CG	21:N:614:ASN:N	2.86	0.44
22:O:45:LEU:HA	22:O:48:PHE:CD2	2.53	0.44
22:O:229:ASN:N	22:O:230:PHE:HB2	2.33	0.44
22:O:247:ASN:O	22:O:250:TRP:HB2	2.18	0.44
22:O:382:LYS:HZ2	22:O:383:LYS:HD3	1.82	0.44
23:P:42:LEU:HD22	23:P:59:LEU:HD13	2.00	0.44
23:P:221:TYR:HH	23:P:245:TYR:N	2.16	0.44
24:Q:246:TYR:CE2	24:Q:261:VAL:HG21	2.53	0.44
24:Q:381:ILE:C	24:Q:383:ASP:HA	2.41	0.44
25:R:78:ASP:OD1	25:R:94:PHE:N	2.51	0.44
25:R:79:LEU:H	25:R:94:PHE:H	1.64	0.44
25:R:220:ALA:HA	25:R:221:VAL:HA	1.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:310:LEU:HG	26:S:314:ASN:ND2	2.33	0.44
26:S:338:MET:CA	26:S:341:SER:H	2.31	0.44
26:S:381:VAL:HA	26:S:384:ARG:HE	1.82	0.44
26:S:458:GLN:HE22	28:U:273:LEU:HB2	1.82	0.44
27:T:147:LYS:HA	27:T:150:ARG:HD2	1.99	0.44
27:T:174:PHE:O	27:T:176:SER:N	2.51	0.44
29:V:26:THR:HB	29:V:28:TYR:CZ	2.53	0.44
31:X:120:GLU:O	31:X:124:LYS:HG2	2.18	0.44
33:Z:345:GLU:HB3	33:Z:349:THR:HG23	2.00	0.44
33:Z:495:ILE:HA	33:Z:532:HIS:CD2	2.53	0.44
33:Z:549:ASN:O	33:Z:553:ARG:N	2.50	0.44
8:a:64:LEU:O	14:g:161:LYS:HG3	2.16	0.44
10:c:236:LYS:O	10:c:239:LEU:HB3	2.18	0.44
11:d:101:GLU:OE2	7:l:196:ARG:NH1	2.51	0.44
12:e:31:ILE:HD11	12:e:160:PRO:HG2	2.00	0.44
12:e:47:VAL:C	12:e:48:LEU:HD12	2.42	0.44
14:g:123:HIS:CG	14:g:132:PHE:CE2	3.06	0.44
3:h:33:LEU:O	3:h:195:VAL:N	2.42	0.44
3:h:196:VAL:O	3:h:202:VAL:HA	2.16	0.44
4:i:77:THR:HB	4:i:80:ASP:HB2	2.00	0.44
4:i:113:LYS:HG3	4:i:114:GLN:H	1.83	0.44
2:2:253:ASP:C	2:2:256:LYS:HZ2	2.26	0.43
2:2:264:GLN:CD	3:3:55:ARG:H	2.26	0.43
4:4:242:LEU:N	5:5:199:TYR:O	2.51	0.43
6:6:56:PHE:HD1	6:6:98:TYR:CE2	2.36	0.43
7:7:151:VAL:HG12	7:7:188:TYR:CD2	2.52	0.43
2:9:49:TYR:N	2:9:52:GLY:O	2.45	0.43
8:A:43:LEU:C	8:A:43:LEU:HD12	2.43	0.43
8:A:225:VAL:HG11	8:A:236:LEU:HD12	1.99	0.43
9:B:201:GLU:N	9:B:201:GLU:OE1	2.51	0.43
10:C:33:GLY:HA2	10:C:51:LYS:HD2	2.00	0.43
11:D:82:SER:O	11:D:86:ILE:N	2.33	0.43
12:E:177:GLU:HG2	12:E:178:GLY:N	2.33	0.43
12:E:193:LEU:O	12:E:197:GLU:HG3	2.18	0.43
13:F:44:ALA:O	13:F:215:ILE:HG13	2.18	0.43
13:F:96:SER:O	13:F:100:ASN:HA	2.18	0.43
13:F:157:TYR:CD2	14:G:60:VAL:HG22	2.53	0.43
14:G:12:ASN:HB3	14:G:126:TYR:O	2.16	0.43
14:G:170:GLN:CD	14:G:170:GLN:N	2.75	0.43
15:H:284:VAL:HG12	20:M:252:VAL:HG12	1.99	0.43
16:I:402:VAL:HG22	16:I:440:ALA:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:32:LEU:HD21	26:S:173:LEU:CD2	2.48	0.43
17:J:137:MET:HA	17:J:213:VAL:HG22	2.00	0.43
17:J:245:ILE:O	17:J:291:ILE:N	2.36	0.43
18:K:125:THR:HG22	18:K:126:LEU:HD23	1.98	0.43
19:L:165:PRO:HB2	19:L:168:TYR:HB2	1.99	0.43
19:L:195:GLU:HA	19:L:199:LEU:HD12	2.00	0.43
19:L:242:ASN:HD22	19:L:273:HIS:CD2	2.36	0.43
20:M:373:ASP:O	20:M:412:HIS:HB2	2.18	0.43
21:N:346:ASN:O	21:N:349:ILE:HB	2.17	0.43
21:N:362:TRP:HH2	21:N:476:THR:HG23	1.83	0.43
21:N:412:TYR:O	21:N:415:PHE:N	2.51	0.43
21:N:495:PRO:C	21:N:499:HIS:HD1	2.18	0.43
21:N:573:HIS:CA	21:N:576:VAL:HB	2.44	0.43
21:N:585:ARG:O	21:N:589:ILE:HG13	2.17	0.43
21:N:772:GLN:HG2	21:N:870:ASN:H	1.83	0.43
23:P:123:ARG:O	23:P:125:VAL:N	2.51	0.43
23:P:254:GLU:OE2	23:P:288:ASN:CG	2.61	0.43
24:Q:173:SER:O	24:Q:176:ASP:N	2.51	0.43
24:Q:178:HIS:CB	24:Q:201:ALA:HB2	2.47	0.43
24:Q:369:ASP:O	24:Q:373:VAL:HG21	2.18	0.43
24:Q:380:MET:HB2	24:Q:385:ILE:C	2.34	0.43
25:R:84:LYS:HE2	25:R:86:ASP:HB2	1.99	0.43
25:R:167:LYS:O	25:R:170:VAL:HB	2.17	0.43
25:R:200:LYS:CD	25:R:202:GLY:H	2.24	0.43
25:R:309:LEU:HA	25:R:309:LEU:HD23	1.77	0.43
27:T:124:SER:O	27:T:128:TYR:N	2.37	0.43
27:T:141:LEU:HA	27:T:144:TYR:CD2	2.53	0.43
28:U:19:LEU:HA	28:U:19:LEU:HD23	1.71	0.43
28:U:84:ASN:O	28:U:87:GLU:HG2	2.18	0.43
29:V:111:HIS:HB3	29:V:114:PHE:CD2	2.49	0.43
30:W:7:VAL:HA	30:W:50:GLY:N	2.28	0.43
32:Y:84:TYR:HA	32:Y:87:GLU:CD	2.43	0.43
33:Z:135:LEU:HA	33:Z:157:LEU:HD13	2.00	0.43
33:Z:501:LYS:HD2	33:Z:534:PHE:CD1	2.53	0.43
8:a:131:ARG:HD2	9:b:127:VAL:HG12	1.99	0.43
9:b:172:LYS:HA	9:b:175:LEU:HD12	2.00	0.43
10:c:171:ALA:O	10:c:175:LEU:HG	2.17	0.43
11:d:159:TRP:CH2	12:e:59:LEU:HB2	2.53	0.43
12:e:208:MET:SD	12:e:212:LEU:HD12	2.58	0.43
14:g:166:GLY:O	14:g:169:ARG:NH1	2.42	0.43
14:g:195:GLN:O	14:g:199:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:107:TYR:CD1	6:k:186:LYS:HA	2.53	0.43
7:l:152:ALA:HA	7:l:188:TYR:CE2	2.53	0.43
7:l:191:ASP:OD2	7:l:193:ASP:HB2	2.17	0.43
1:1:196:VAL:O	1:1:199:VAL:HB	2.18	0.43
2:2:77:PRO:HA	2:2:83:VAL:HG22	2.00	0.43
2:2:226:ARG:NH2	2:2:248:GLU:OE1	2.46	0.43
3:3:33:LEU:HD11	3:3:119:ALA:HB3	1.99	0.43
4:4:189:GLN:HA	4:4:192:ILE:HD12	1.99	0.43
5:5:18:LYS:HB2	5:5:157:ASN:O	2.18	0.43
7:7:225:VAL:O	7:7:229:LEU:N	2.27	0.43
1:8:171:ASN:O	1:8:175:PHE:HA	2.17	0.43
2:9:135:GLN:HB3	2:9:139:LYS:HZ2	1.82	0.43
8:A:124:LEU:HB3	8:A:128:TYR:CE2	2.53	0.43
9:B:12:PHE:HD2	10:C:21:GLN:NE2	2.16	0.43
9:B:42:GLY:HA2	9:B:145:PHE:CG	2.54	0.43
9:B:172:LYS:HA	9:B:175:LEU:HD12	2.00	0.43
9:B:224:TYR:HE1	9:B:227:ILE:HD12	1.84	0.43
10:C:236:LYS:O	10:C:239:LEU:HB3	2.18	0.43
13:F:196:ALA:O	13:F:199:GLN:N	2.47	0.43
14:G:123:HIS:CG	14:G:132:PHE:CE2	3.06	0.43
14:G:194:LYS:HA	14:G:239:ALA:HB1	2.01	0.43
15:H:252:PRO:O	15:H:254:THR:N	2.51	0.43
15:H:368:PRO:HD3	20:M:390:GLN:HG3	2.00	0.43
16:I:159:ILE:HG12	16:I:160:LEU:O	2.18	0.43
16:I:313:ALA:O	16:I:329:ILE:HG23	2.18	0.43
16:I:421:ALA:HB2	17:J:307:PRO:HG3	1.99	0.43
17:J:182:PRO:HA	17:J:311:ASP:HB2	2.00	0.43
18:K:91:SER:CB	29:V:148:LYS:HZ2	2.30	0.43
18:K:260:LEU:HA	18:K:263:GLU:HB2	2.00	0.43
18:K:267:SER:OG	18:K:268:ILE:N	2.48	0.43
19:L:88:TYR:HB3	20:M:29:GLU:OE1	2.18	0.43
20:M:262:LEU:O	20:M:265:ASP:HB2	2.18	0.43
21:N:123:PHE:CZ	21:N:161:TYR:HB2	2.47	0.43
21:N:362:TRP:CE2	21:N:742:TRP:HH2	2.36	0.43
22:O:64:ASN:O	22:O:66:VAL:N	2.51	0.43
22:O:172:TYR:HB3	22:O:195:TYR:HB2	2.01	0.43
22:O:251:LEU:HA	22:O:254:LEU:HD12	1.99	0.43
22:O:381:GLY:HA2	22:O:384:MET:HE3	2.00	0.43
23:P:366:ASN:O	23:P:370:ASP:N	2.49	0.43
23:P:383:LEU:HB3	23:P:389:ILE:HG23	2.00	0.43
24:Q:368:LEU:CG	24:Q:369:ASP:H	2.03	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:178:GLY:HA2	25:R:183:ASP:HB2	2.00	0.43
25:R:243:LEU:HA	25:R:243:LEU:HD23	1.65	0.43
26:S:227:ASN:O	26:S:228:GLU:C	2.61	0.43
26:S:321:GLN:CB	26:S:328:PRO:HD3	2.48	0.43
26:S:406:ASP:O	26:S:409:LEU:HB3	2.17	0.43
27:T:61:ILE:HA	27:T:64:VAL:HB	2.00	0.43
28:U:192:ASN:HB3	29:V:237:ASN:OD1	2.18	0.43
31:X:55:LYS:O	31:X:55:LYS:HG3	2.18	0.43
31:X:85:ARG:CD	31:X:117:LYS:HB3	2.48	0.43
33:Z:297:VAL:O	33:Z:301:THR:N	2.40	0.43
33:Z:540:GLY:O	33:Z:543:THR:HB	2.18	0.43
33:Z:880:SER:CB	33:Z:906:ALA:HB3	2.44	0.43
33:Z:927:VAL:HA	33:Z:970:TYR:HD2	1.82	0.43
8:a:20:SER:O	9:b:23:TYR:HB3	2.18	0.43
10:c:108:VAL:HG21	10:c:139:GLY:HA3	1.99	0.43
12:e:171:ALA:O	12:e:176:SER:HB2	2.18	0.43
14:g:75:GLY:HA3	14:g:228:HIS:NE2	2.33	0.43
14:g:109:ILE:HB	14:g:110:PRO:HD3	1.99	0.43
4:i:175:LEU:HA	4:i:175:LEU:HD23	1.74	0.43
4:i:189:GLN:HA	4:i:192:ILE:HD12	1.99	0.43
6:k:67:TYR:O	6:k:70:ARG:HB3	2.17	0.43
7:l:141:HIS:CE1	7:l:145:GLU:HG3	2.53	0.43
1:1:56:SER:HB3	1:1:59:GLU:HB2	2.00	0.43
1:1:207:PHE:CE2	1:1:221:LEU:HD13	2.53	0.43
1:1:223:ILE:HD12	1:1:236:TYR:CE1	2.54	0.43
2:2:113:LEU:HB2	2:2:118:GLU:CG	2.48	0.43
2:2:219:TYR:OH	2:2:250:MET:HA	2.17	0.43
3:3:99:SER:OG	14:G:102:LEU:O	2.33	0.43
3:3:159:LYS:NZ	3:h:176:HIS:HD2	2.15	0.43
5:5:51:LEU:HD13	5:5:109:VAL:HG22	1.99	0.43
6:6:43:LEU:HB2	6:6:189:ILE:CD1	2.49	0.43
7:7:187:ILE:O	7:7:198:LYS:HA	2.18	0.43
1:8:38:ASP:OD1	1:8:38:ASP:N	2.50	0.43
1:8:82:ALA:O	1:8:85:LYS:HB3	2.18	0.43
1:8:207:PHE:CE2	1:8:221:LEU:HD13	2.53	0.43
1:8:215:ILE:HG13	1:8:216:GLN:N	2.33	0.43
8:A:156:LYS:HE2	8:A:166:TYR:CZ	2.54	0.43
10:C:106:ILE:HD13	10:C:111:LEU:HB2	2.00	0.43
10:C:152:ASN:CG	10:C:154:SER:HG	2.22	0.43
10:C:191:GLU:HG2	10:C:195:LYS:HG2	2.00	0.43
11:D:10:ILE:HB	12:E:23:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:115:LYS:HA	13:F:118:LYS:NZ	2.33	0.43
14:G:112:PHE:CZ	14:G:116:LEU:HD11	2.53	0.43
14:G:195:GLN:O	14:G:199:ILE:HG13	2.18	0.43
15:H:43:ALA:O	33:Z:622:HIS:CE1	2.72	0.43
15:H:282:LYS:HD3	16:I:283:TYR:CE2	2.53	0.43
15:H:284:VAL:HG22	15:H:328:GLU:OE1	2.18	0.43
17:J:235:VAL:HG12	17:J:239:GLU:OE2	2.19	0.43
18:K:291:GLU:O	18:K:295:ILE:N	2.44	0.43
19:L:145:ARG:HG2	19:L:159:LEU:HD12	2.01	0.43
19:L:223:PRO:HB3	20:M:335:PRO:HG2	2.00	0.43
19:L:241:ALA:HA	19:L:275:PRO:HB2	1.99	0.43
19:L:318:LEU:HB2	19:L:322:LYS:NZ	2.33	0.43
20:M:216:LYS:NZ	20:M:315:PHE:HB2	2.34	0.43
20:M:242:THR:OG1	20:M:273:LYS:O	2.29	0.43
20:M:336:ALA:HB1	20:M:342:ARG:HD3	2.00	0.43
21:N:522:ALA:HA	21:N:554:THR:HA	2.00	0.43
21:N:584:ARG:O	21:N:588:VAL:HG23	2.18	0.43
22:O:280:LEU:HA	22:O:283:HIS:ND1	2.34	0.43
22:O:369:ARG:NH2	22:O:373:TRP:HE1	2.17	0.43
22:O:383:LYS:H	27:T:262:LYS:HZ1	1.64	0.43
23:P:198:VAL:HG13	23:P:201:ARG:NH2	2.34	0.43
24:Q:26:VAL:O	24:Q:30:LEU:HG	2.19	0.43
24:Q:63:GLN:HG2	24:Q:107:VAL:HG21	2.00	0.43
24:Q:130:ARG:CG	24:Q:132:PHE:H	2.29	0.43
24:Q:311:LEU:O	24:Q:339:TYR:OH	2.29	0.43
24:Q:314:PHE:CG	24:Q:339:TYR:CE1	3.01	0.43
24:Q:369:ASP:O	24:Q:373:VAL:CG2	2.66	0.43
25:R:200:LYS:CE	25:R:202:GLY:H	2.30	0.43
25:R:239:THR:OG1	25:R:240:SER:N	2.48	0.43
25:R:280:ILE:C	25:R:282:THR:N	2.76	0.43
25:R:295:SER:HA	25:R:298:ALA:HB3	1.99	0.43
26:S:280:ASN:CA	26:S:283:GLN:HB2	2.31	0.43
26:S:296:ALA:N	26:S:299:LYS:NZ	2.63	0.43
26:S:306:SER:O	26:S:310:LEU:HB3	2.18	0.43
26:S:427:ILE:HG22	27:T:195:LEU:HB3	2.00	0.43
27:T:86:LYS:HE3	27:T:128:TYR:CE2	2.53	0.43
27:T:254:ASP:O	27:T:255:GLN:C	2.61	0.43
28:U:108:GLU:HG2	28:U:111:LYS:NZ	2.34	0.43
28:U:195:LYS:O	28:U:196:SER:C	2.61	0.43
29:V:267:LYS:CB	29:V:276:PRO:HG3	2.45	0.43
30:W:92:GLN:NE2	30:W:95:GLN:OE1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:305:VAL:HA	33:Z:308:LYS:HB2	2.00	0.43
33:Z:372:ALA:HB3	33:Z:849:ARG:HH22	1.83	0.43
8:a:124:LEU:O	8:a:127:ILE:HB	2.18	0.43
8:a:200:GLU:HG3	8:a:244:ARG:HH21	1.83	0.43
9:b:18:LEU:HB2	9:b:21:ILE:HD12	2.00	0.43
9:b:205:ASN:HA	9:b:247:LEU:CD1	2.48	0.43
10:c:191:GLU:HA	10:c:194:LEU:HB2	1.99	0.43
12:e:177:GLU:HG2	12:e:178:GLY:N	2.33	0.43
12:e:204:LEU:O	12:e:208:MET:HG3	2.16	0.43
13:f:15:PRO:HA	14:g:26:TYR:CG	2.53	0.43
13:f:64:ILE:O	13:f:72:LEU:N	2.32	0.43
5:j:30:GLY:HA3	5:j:35:GLY:HA2	2.00	0.43
5:j:46:TYR:N	5:j:49:VAL:O	2.25	0.43
6:k:43:LEU:HB2	6:k:189:ILE:CD1	2.49	0.43
6:k:165:VAL:HG21	6:k:195:PHE:CE2	2.53	0.43
7:l:253:TYR:CZ	7:l:262:TYR:CD1	3.07	0.43
2:2:214:MET:HE2	2:2:228:PHE:CG	2.54	0.43
3:3:20:THR:CA	3:3:36:ASP:OD2	2.66	0.43
4:4:201:ASN:HB3	4:4:221:THR:HG22	1.99	0.43
6:6:167:GLU:OE1	7:l:216:ASP:HB2	2.18	0.43
7:7:260:TRP:H	7:7:260:TRP:CD1	2.37	0.43
2:9:136:ARG:HA	2:9:136:ARG:HD2	1.83	0.43
8:A:124:LEU:O	8:A:127:ILE:HB	2.18	0.43
9:B:35:LEU:C	9:B:35:LEU:HD12	2.44	0.43
9:B:133:SER:OG	9:B:152:PRO:HD3	2.18	0.43
9:B:205:ASN:HA	9:B:247:LEU:CD1	2.48	0.43
10:C:191:GLU:HA	10:C:194:LEU:HB2	1.99	0.43
13:F:74:LEU:HB2	13:F:130:VAL:HG21	2.00	0.43
13:F:114:ASP:O	13:F:117:GLN:HB3	2.18	0.43
15:H:146:VAL:HG22	15:H:147:ILE:N	2.33	0.43
15:H:235:PHE:O	15:H:239:GLY:N	2.52	0.43
16:I:204:PRO:O	16:I:265:ASN:HB2	2.19	0.43
16:I:207:SER:O	16:I:210:ASP:N	2.51	0.43
16:I:281:GLN:HG3	17:J:223:ILE:C	2.43	0.43
18:K:187:ALA:HB1	18:K:209:VAL:HG11	1.99	0.43
18:K:188:VAL:C	18:K:191:PRO:HD2	2.43	0.43
18:K:342:SER:C	18:K:344:ARG:NH1	2.77	0.43
19:L:145:ARG:HE	19:L:161:ARG:HA	1.83	0.43
19:L:258:GLU:O	19:L:262:ILE:HD12	2.19	0.43
19:L:302:GLN:HA	19:L:305:LEU:HB3	2.00	0.43
19:L:377:GLU:O	19:L:380:VAL:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:219:LEU:O	20:M:347:ILE:N	2.40	0.43
21:N:443:LEU:HD21	21:N:469:VAL:HG13	2.01	0.43
21:N:744:PRO:O	21:N:745:LEU:HD23	2.18	0.43
21:N:919:THR:H	21:N:922:GLN:HB2	1.83	0.43
22:O:126:ILE:HA	22:O:129:ILE:HB	1.99	0.43
23:P:40:LEU:O	23:P:44:LYS:NZ	2.40	0.43
23:P:86:HIS:CD2	23:P:87:GLY:O	2.71	0.43
23:P:253:ASP:OD2	23:P:255:ALA:HB3	2.18	0.43
24:Q:6:SER:O	24:Q:10:GLU:HG3	2.19	0.43
24:Q:140:LYS:O	24:Q:144:LEU:HG	2.17	0.43
24:Q:185:TYR:HB3	24:Q:190:ASN:O	2.18	0.43
24:Q:330:LEU:O	24:Q:334:HIS:N	2.49	0.43
26:S:250:ALA:HA	26:S:253:PHE:HB2	2.00	0.43
26:S:447:GLU:C	26:S:449:LEU:HG	2.43	0.43
27:T:85:LEU:O	27:T:88:TYR:N	2.50	0.43
27:T:100:ASP:O	27:T:103:SER:N	2.45	0.43
27:T:113:LEU:HA	27:T:116:GLN:HB2	2.00	0.43
27:T:222:LEU:C	27:T:225:ASN:H	2.26	0.43
27:T:229:VAL:HG22	27:T:234:TYR:CZ	2.54	0.43
28:U:84:ASN:HB3	28:U:87:GLU:CG	2.48	0.43
33:Z:365:SER:HB2	33:Z:962:ARG:CZ	2.47	0.43
33:Z:391:ASN:HA	33:Z:394:TYR:CD2	2.46	0.43
33:Z:457:ILE:HA	33:Z:460:SER:HB2	1.99	0.43
33:Z:748:LEU:H	33:Z:748:LEU:HG	1.57	0.43
33:Z:789:GLN:HG2	33:Z:792:VAL:H	1.82	0.43
8:a:75:ILE:N	8:a:79:ILE:O	2.52	0.43
8:a:124:LEU:HB3	8:a:128:TYR:CE2	2.53	0.43
8:a:156:LYS:HE2	8:a:166:TYR:CZ	2.54	0.43
9:b:201:GLU:N	9:b:201:GLU:OE1	2.51	0.43
10:c:12:ILE:CA	11:d:19:GLN:HE22	2.26	0.43
10:c:174:THR:O	10:c:178:MET:N	2.46	0.43
10:c:201:THR:OG1	10:c:206:LEU:HD13	2.18	0.43
13:f:150:SER:OG	13:f:152:ASN:ND2	2.38	0.43
3:h:129:VAL:O	3:h:140:LYS:HA	2.18	0.43
3:h:167:LYS:O	3:h:171:VAL:HG23	2.19	0.43
4:i:32:ILE:HG22	4:i:45:ALA:CB	2.48	0.43
4:i:47:THR:OG1	4:i:201:ASN:N	2.42	0.43
4:i:131:GLY:HA2	4:i:207:MET:SD	2.59	0.43
5:j:124:PHE:CE1	5:j:130:ILE:HA	2.53	0.43
5:j:193:ASP:OD1	5:j:193:ASP:N	2.51	0.43
6:k:52:ASP:OD2	6:k:98:TYR:HA	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:165:VAL:HG12	6:k:169:GLU:HG3	2.01	0.43
1:1:32:LEU:HA	1:1:157:ALA:HA	2.00	0.43
1:1:134:ASP:OD2	1:1:138:LYS:HB2	2.19	0.43
1:1:225:ILE:HG21	1:1:232:ARG:NH2	2.34	0.43
3:3:11:LEU:HD21	3:3:17:SER:HB2	2.00	0.43
4:4:131:GLY:HA2	4:4:207:MET:SD	2.59	0.43
5:5:39:LYS:NZ	7:l:284:ASN:OD1	2.43	0.43
7:7:253:TYR:CZ	7:7:262:TYR:CD1	3.07	0.43
2:9:183:MET:HG2	4:i:161:LEU:HB3	1.99	0.43
2:9:253:ASP:C	2:9:256:LYS:HZ2	2.27	0.43
8:A:204:GLU:OE2	8:A:244:ARG:HA	2.19	0.43
9:B:77:GLY:CA	9:B:132:VAL:HG12	2.49	0.43
9:B:148:TYR:HD1	9:B:158:PRO:HA	1.83	0.43
11:D:81:ASP:HB3	11:D:129:PHE:HD1	1.84	0.43
11:D:120:TYR:HA	11:D:123:SER:CB	2.48	0.43
11:D:143:ASP:HB2	11:D:217:PRO:HG3	2.00	0.43
13:F:48:ALA:O	13:F:212:SER:N	2.37	0.43
14:G:35:THR:HG21	14:G:66:LYS:NZ	2.33	0.43
14:G:75:GLY:HA3	14:G:228:HIS:NE2	2.33	0.43
14:G:126:TYR:HB2	14:G:129:VAL:CG2	2.33	0.43
14:G:201:TYR:HD1	14:G:212:PHE:HZ	1.66	0.43
14:G:224:THR:HG22	14:G:229:LYS:HD3	2.00	0.43
15:H:176:VAL:HG22	15:H:179:SER:O	2.18	0.43
15:H:225:VAL:O	15:H:228:PRO:HG2	2.18	0.43
15:H:318:ARG:NH2	15:H:329:VAL:HG12	2.33	0.43
16:I:430:ALA:O	16:I:434:ARG:N	2.51	0.43
17:J:32:LEU:HD11	26:S:173:LEU:HD23	1.99	0.43
17:J:88:VAL:HG12	17:J:90:PRO:HD2	2.01	0.43
17:J:303:ALA:O	17:J:309:ARG:HD2	2.19	0.43
17:J:369:ALA:O	17:J:373:ARG:N	2.52	0.43
19:L:354:GLU:OE1	19:L:357:ARG:NH2	2.37	0.43
20:M:4:LEU:HD23	20:M:7:LEU:HD12	2.00	0.43
21:N:123:PHE:CG	21:N:124:TYR:N	2.85	0.43
21:N:214:LEU:O	21:N:217:MET:N	2.51	0.43
21:N:308:ASN:HD22	21:N:712:ASN:ND2	2.11	0.43
21:N:315:ASN:OD1	21:N:318:LYS:NZ	2.40	0.43
21:N:424:LYS:O	21:N:427:ILE:HB	2.17	0.43
21:N:603:PRO:HG3	21:N:637:ALA:HB2	2.01	0.43
22:O:16:MET:CB	22:O:72:LYS:CE	2.96	0.43
22:O:165:LEU:HB3	22:O:198:THR:HG23	2.01	0.43
22:O:194:LEU:O	22:O:197:SER:OG	2.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:73:ASP:OD1	23:P:114:THR:OG1	2.18	0.43
23:P:131:PHE:HA	23:P:136:ARG:NH2	2.34	0.43
23:P:173:MET:HB3	23:P:177:ILE:HG23	2.01	0.43
24:Q:14:LEU:HB2	24:Q:23:ALA:HB2	2.00	0.43
24:Q:25:GLN:O	24:Q:29:SER:OG	2.19	0.43
24:Q:298:ALA:HB2	24:Q:321:TYR:HB3	2.00	0.43
25:R:141:TYR:O	25:R:146:ASP:N	2.52	0.43
25:R:186:TYR:H	25:R:186:TYR:HD1	1.67	0.43
25:R:381:ILE:CA	26:S:398:THR:HB	2.48	0.43
26:S:204:ASP:CB	27:T:92:ASN:HD21	2.32	0.43
26:S:280:ASN:HB2	26:S:289:ALA:HB2	2.00	0.43
26:S:283:GLN:HA	27:T:120:THR:CG2	2.48	0.43
26:S:455:GLU:O	26:S:458:GLN:N	2.51	0.43
28:U:11:ALA:HB2	28:U:48:VAL:O	2.19	0.43
28:U:76:MET:HG2	28:U:80:CYS:SG	2.58	0.43
28:U:283:ARG:NH1	29:V:284:ALA:O	2.51	0.43
29:V:36:LYS:NZ	29:V:69:PHE:HB3	2.33	0.43
30:W:17:ARG:HB3	30:W:82:GLU:HA	2.00	0.43
33:Z:436:LEU:HB3	33:Z:451:ALA:HB1	2.01	0.43
33:Z:579:GLU:O	33:Z:583:ASP:CA	2.62	0.43
8:a:42:SER:O	8:a:171:THR:N	2.36	0.43
10:c:14:SER:O	11:d:22:TYR:HB3	2.18	0.43
10:c:93:ILE:O	10:c:97:ASN:N	2.31	0.43
11:d:42:VAL:HB	11:d:215:VAL:CG1	2.49	0.43
11:d:141:ARG:NH2	7:l:182:LYS:HD2	2.27	0.43
12:e:229:LYS:HD3	12:e:229:LYS:HA	1.79	0.43
13:f:74:LEU:HB2	13:f:130:VAL:HG21	2.00	0.43
4:i:208:GLU:OE1	4:i:211:LYS:HD3	2.17	0.43
4:i:242:LEU:HG	5:j:201:LYS:N	2.33	0.43
5:j:126:LEU:CD1	5:j:127:ILE:HG23	2.46	0.43
1:1:68:ASN:ND2	1:1:230:GLY:HA2	2.34	0.43
2:2:164:ASN:OD1	2:2:168:VAL:N	2.51	0.43
2:2:259:LYS:HD2	2:2:265:LYS:C	2.44	0.43
3:3:129:VAL:O	3:3:140:LYS:HA	2.18	0.43
4:4:47:THR:OG1	4:4:201:ASN:N	2.42	0.43
4:4:236:ARG:HA	5:5:165:GLU:HG3	2.00	0.43
6:6:107:TYR:CD1	6:6:186:LYS:HA	2.53	0.43
7:7:152:ALA:HA	7:7:188:TYR:CE2	2.53	0.43
7:7:162:VAL:HG11	7:7:192:SER:HA	2.01	0.43
7:7:243:ASP:OD1	7:7:245:TYR:N	2.31	0.43
7:7:276:LYS:HG3	7:7:281:SER:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:30:THR:HG21	1:8:162:ALA:N	2.33	0.43
2:9:253:ASP:O	2:9:256:LYS:HG2	2.18	0.43
2:9:259:LYS:HD2	2:9:265:LYS:C	2.44	0.43
8:A:75:ILE:N	8:A:79:ILE:O	2.52	0.43
11:D:25:GLU:O	11:D:29:ARG:N	2.34	0.43
11:D:187:THR:HG22	11:D:189:GLU:H	1.83	0.43
13:F:64:ILE:O	13:F:72:LEU:N	2.32	0.43
15:H:77:ALA:HB2	15:H:103:THR:N	2.32	0.43
15:H:145:TYR:HB3	15:H:168:ILE:C	2.44	0.43
15:H:295:PHE:HE2	15:H:339:GLN:HB2	1.82	0.43
15:H:304:CYS:SG	15:H:349:ILE:HG23	2.58	0.43
15:H:318:ARG:NE	15:H:326:ASP:OD2	2.50	0.43
15:H:420:ARG:HD2	16:I:370:ARG:HH22	1.83	0.43
16:I:167:LEU:CD1	16:I:186:VAL:HG11	2.48	0.43
16:I:281:GLN:CD	17:J:227:SER:HG	2.27	0.43
16:I:283:TYR:HB2	17:J:221:LYS:HG3	1.99	0.43
17:J:61:GLU:HG2	17:J:65:LEU:HD11	1.99	0.43
17:J:134:VAL:O	17:J:135:SER:OG	2.26	0.43
17:J:158:LYS:O	17:J:162:GLU:HG2	2.18	0.43
17:J:218:LEU:HD23	17:J:229:MET:HE2	2.01	0.43
18:K:95:VAL:O	18:K:139:LEU:HB2	2.19	0.43
18:K:150:LEU:HB3	18:K:152:PRO:HD2	2.00	0.43
18:K:163:GLU:HG2	18:K:234:PHE:O	2.18	0.43
19:L:191:ARG:HB3	19:L:195:GLU:OE2	2.18	0.43
21:N:178:SER:OG	21:N:182:ASN:ND2	2.51	0.43
21:N:309:ILE:O	21:N:339:MET:HE3	2.19	0.43
21:N:340:HIS:O	21:N:343:THR:N	2.49	0.43
21:N:341:ALA:C	21:N:343:THR:H	2.25	0.43
21:N:455:MET:SD	21:N:731:VAL:HG21	2.58	0.43
21:N:759:ILE:HG23	21:N:761:ILE:HD11	2.01	0.43
22:O:68:LYS:O	22:O:71:ASP:N	2.52	0.43
22:O:71:ASP:HA	30:W:24:THR:HG22	2.00	0.43
22:O:71:ASP:CG	30:W:23:ARG:HB2	2.44	0.43
22:O:99:LEU:CD1	22:O:132:GLU:CB	2.97	0.43
22:O:150:LEU:HD21	22:O:175:ASN:OD1	2.19	0.43
22:O:185:PHE:HB2	22:O:223:LEU:C	2.44	0.43
22:O:301:PHE:CB	22:O:305:ILE:HA	2.49	0.43
22:O:332:ILE:HA	22:O:336:LEU:N	2.33	0.43
23:P:66:LEU:HB3	23:P:70:ASN:HD21	1.83	0.43
23:P:151:GLY:O	23:P:153:ILE:HG13	2.19	0.43
23:P:197:THR:O	23:P:201:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:254:GLU:HG3	23:P:288:ASN:ND2	2.34	0.43
24:Q:53:GLU:O	24:Q:56:THR:HB	2.18	0.43
24:Q:57:SER:O	24:Q:60:GLU:N	2.52	0.43
24:Q:91:SER:CB	9:b:246:ARG:HG2	2.47	0.43
24:Q:135:HIS:HA	24:Q:138:SER:CB	2.47	0.43
24:Q:405:GLN:CD	25:R:395:ASN:CB	2.76	0.43
24:Q:427:PHE:HE1	25:R:420:ALA:HB2	1.83	0.43
25:R:43:ARG:CZ	25:R:43:ARG:HB2	2.49	0.43
25:R:150:ALA:O	25:R:154:LEU:N	2.29	0.43
26:S:258:GLU:OE2	26:S:260:PRO:HB3	2.18	0.43
26:S:467:PHE:CA	26:S:470:GLN:HB2	2.48	0.43
27:T:148:LEU:O	27:T:151:TRP:HB2	2.18	0.43
28:U:292:ILE:HG12	28:U:295:LYS:NZ	2.34	0.43
33:Z:528:LEU:O	33:Z:531:ALA:HB3	2.18	0.43
33:Z:805:LEU:O	33:Z:809:MET:HG3	2.18	0.43
33:Z:975:SER:O	33:Z:977:ILE:HG23	2.18	0.43
11:d:119:ARG:CZ	11:d:119:ARG:HB2	2.49	0.43
11:d:123:SER:C	12:e:135:SER:HB3	2.44	0.43
12:e:35:SER:O	12:e:79:SER:OG	2.24	0.43
12:e:54:ALA:HA	12:e:59:LEU:HD23	2.01	0.43
3:h:11:LEU:HD21	3:h:17:SER:HB2	2.00	0.43
3:h:15:GLU:HB3	4:i:145:HIS:CG	2.53	0.43
3:h:55:ARG:HG3	3:h:57:HIS:O	2.19	0.43
4:i:176:THR:N	4:i:179:GLU:HB2	2.34	0.43
4:i:177:LYS:O	4:i:181:ILE:N	2.36	0.43
7:l:271:LEU:O	7:l:274:LYS:HB3	2.19	0.43
2:2:58:ASP:N	2:2:74:ARG:NH2	2.66	0.43
2:2:253:ASP:O	2:2:256:LYS:HG2	2.18	0.43
3:3:20:THR:CB	3:3:36:ASP:OD2	2.67	0.43
4:4:206:VAL:HB	4:4:214:GLU:HG2	2.01	0.43
5:5:118:LYS:HG2	5:5:119:PRO:O	2.19	0.43
2:9:40:THR:N	2:9:62:SER:O	2.38	0.43
8:A:42:SER:O	8:A:171:THR:N	2.36	0.43
10:C:36:ILE:HA	10:C:164:SER:HA	1.99	0.43
11:D:93:ALA:O	11:D:97:ARG:HG3	2.18	0.43
11:D:110:THR:HG23	11:D:135:ILE:HD12	2.01	0.43
12:E:147:HIS:HD2	12:E:153:TYR:CE2	2.37	0.43
13:F:195:GLU:HG2	13:F:199:GLN:HE21	1.83	0.43
15:H:55:ASP:O	15:H:59:ILE:N	2.48	0.43
16:I:175:LEU:HD23	16:I:187:LEU:HD22	2.01	0.43
16:I:244:LYS:CE	16:I:371:ILE:HG13	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:113:VAL:HG12	17:J:125:VAL:HG22	2.00	0.43
18:K:219:LYS:O	18:K:222:LEU:HB2	2.19	0.43
18:K:294:ARG:O	18:K:298:GLU:N	2.23	0.43
19:L:387:ASN:OD1	19:L:387:ASN:C	2.61	0.43
20:M:189:GLN:O	20:M:193:LEU:HG	2.18	0.43
20:M:216:LYS:HE3	20:M:321:VAL:CG2	2.47	0.43
20:M:307:GLU:O	20:M:311:GLN:HG3	2.18	0.43
21:N:25:LEU:HA	21:N:28:ILE:HB	2.01	0.43
21:N:383:LYS:O	21:N:387:ALA:N	2.52	0.43
21:N:469:VAL:HA	21:N:472:ASN:ND2	2.34	0.43
21:N:560:ALA:HA	21:N:594:VAL:HA	2.01	0.43
21:N:715:ILE:O	21:N:716:GLN:NE2	2.52	0.43
21:N:769:PRO:HB2	21:N:914:VAL:HG22	2.01	0.43
22:O:217:LEU:O	22:O:220:SER:N	2.51	0.43
22:O:226:LYS:HG3	22:O:227:ILE:O	2.19	0.43
22:O:230:PHE:CZ	22:O:291:ILE:HD13	2.54	0.43
22:O:339:GLY:HA3	22:O:349:THR:O	2.18	0.43
23:P:221:TYR:CZ	23:P:244:ILE:HB	2.53	0.43
23:P:392:LYS:CE	24:Q:354:PHE:HD2	2.31	0.43
23:P:417:HIS:O	23:P:421:GLU:HG3	2.19	0.43
23:P:435:LYS:NZ	28:U:155:LEU:HD12	2.33	0.43
24:Q:84:TYR:O	24:Q:87:GLN:HB2	2.18	0.43
24:Q:178:HIS:HB3	24:Q:197:SER:O	2.19	0.43
24:Q:359:ILE:CG2	24:Q:373:VAL:CG1	2.90	0.43
25:R:37:LYS:HG3	25:R:38:VAL:N	2.34	0.43
25:R:133:ALA:HA	25:R:136:ASN:HD22	1.83	0.43
25:R:182:ASN:CG	25:R:320:LYS:HD2	2.44	0.43
25:R:309:LEU:HD23	25:R:312:TYR:HB3	2.00	0.43
25:R:382:ASP:OD1	25:R:384:VAL:N	2.52	0.43
26:S:290:ASN:O	26:S:294:ILE:HG13	2.19	0.43
26:S:379:LEU:C	26:S:381:VAL:H	2.26	0.43
27:T:62:LEU:HD13	27:T:84:GLN:C	2.43	0.43
27:T:159:LYS:O	27:T:163:LEU:HG	2.18	0.43
27:T:161:TRP:HD1	27:T:185:ILE:HD12	1.83	0.43
28:U:24:ARG:HD3	29:V:99:GLY:C	2.44	0.43
28:U:76:MET:CB	29:V:94:MET:HE1	2.47	0.43
28:U:174:LEU:O	28:U:176:ARG:NH1	2.51	0.43
28:U:204:LEU:O	28:U:207:VAL:HB	2.19	0.43
28:U:292:ILE:HG12	28:U:295:LYS:CE	2.49	0.43
29:V:71:MET:HE3	29:V:72:PRO:HD2	1.99	0.43
30:W:15:TYR:HB2	30:W:115:CYS:CA	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:98:LEU:HD11	30:W:109:ARG:O	2.18	0.43
30:W:148:GLU:OE1	30:W:173:THR:HG22	2.18	0.43
33:Z:510:LEU:O	33:Z:513:ALA:HB3	2.17	0.43
33:Z:764:LEU:O	33:Z:772:ILE:HG21	2.18	0.43
33:Z:815:MET:C	33:Z:834:LEU:HD11	2.43	0.43
33:Z:888:LEU:CD1	33:Z:901:PHE:HA	2.49	0.43
33:Z:972:SER:CB	33:Z:981:VAL:HG13	2.48	0.43
9:b:42:GLY:HA2	9:b:145:PHE:CG	2.54	0.43
10:c:102:TYR:O	10:c:104:GLU:HG3	2.18	0.43
10:c:106:ILE:HD13	10:c:111:LEU:HB2	2.00	0.43
12:e:118:ASP:HB3	12:e:122:ARG:HH21	1.84	0.43
13:f:115:LYS:HA	13:f:118:LYS:NZ	2.33	0.43
14:g:81:LEU:HB2	14:g:84:ASP:OD2	2.19	0.43
14:g:220:SER:OG	14:g:223:GLU:N	2.40	0.43
4:i:113:LYS:HG3	4:i:114:GLN:N	2.34	0.43
5:j:189:ILE:O	5:j:196:VAL:N	2.36	0.43
6:k:91:SER:C	6:k:94:SER:H	2.26	0.43
1:1:27:ASN:ND2	2:2:168:VAL:HG11	2.33	0.43
2:2:44:VAL:HG13	2:2:57:ALA:HB2	2.00	0.43
2:2:48:LYS:HB2	2:2:158:GLN:HG2	1.99	0.43
3:3:54:THR:OG1	3:3:64:ARG:NE	2.41	0.43
3:3:133:PRO:HB3	2:9:68:ARG:NH1	2.34	0.43
3:3:171:VAL:O	3:3:174:ILE:HB	2.19	0.43
4:4:113:LYS:HD2	4:4:148:THR:HG21	2.01	0.43
4:4:132:VAL:HB	4:4:209:ILE:HA	2.01	0.43
4:4:178:GLU:HA	4:4:181:ILE:HD12	2.01	0.43
5:5:83:GLU:OE1	5:5:113:ASN:HA	2.16	0.43
6:6:146:HIS:HA	7:1:234:ARG:NH2	2.33	0.43
1:8:223:ILE:HD12	1:8:236:TYR:CE1	2.54	0.43
2:9:60:LEU:HD21	2:9:67:LEU:HD22	2.01	0.43
2:9:93:MET:O	2:9:97:GLU:HG3	2.19	0.43
2:9:164:ASN:OD1	2:9:168:VAL:N	2.51	0.43
2:9:166:LEU:HD23	2:9:166:LEU:HA	1.85	0.43
9:B:68:THR:N	9:B:71:ILE:O	2.41	0.43
11:D:42:VAL:HB	11:D:215:VAL:CG1	2.49	0.43
12:E:147:HIS:CE1	12:E:224:LYS:HD2	2.52	0.43
12:E:177:GLU:O	12:E:180:GLN:HB3	2.18	0.43
13:F:213:ILE:HB	13:F:225:TYR:HB2	2.01	0.43
17:J:245:ILE:N	17:J:289:LYS:O	2.47	0.43
18:K:217:THR:CA	18:K:381:ALA:HB2	2.49	0.43
18:K:223:VAL:O	18:K:227:ALA:N	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:261:ALA:HB1	18:K:312:VAL:HG21	2.00	0.43
18:K:287:GLY:O	18:K:289:ASP:N	2.52	0.43
19:L:147:THR:OG1	19:L:157:ARG:HB3	2.19	0.43
20:M:121:THR:HG23	20:M:125:GLN:O	2.18	0.43
20:M:166:ARG:O	20:M:166:ARG:HG2	2.19	0.43
20:M:375:ASN:HB3	20:M:378:GLU:OE1	2.19	0.43
20:M:392:LYS:O	20:M:395:THR:HB	2.19	0.43
21:N:94:LYS:HE3	21:N:99:GLU:OE2	2.19	0.43
21:N:180:SER:O	21:N:183:VAL:HB	2.19	0.43
21:N:702:ALA:O	21:N:705:ILE:HB	2.19	0.43
21:N:738:GLN:HG2	21:N:741:TYR:CD1	2.54	0.43
21:N:875:LEU:HB3	21:N:878:GLN:CB	2.48	0.43
21:N:899:ASN:HB2	21:N:902:VAL:CG2	2.49	0.43
22:O:140:LYS:C	22:O:140:LYS:CD	2.92	0.43
22:O:232:GLU:C	22:O:234:LEU:N	2.76	0.43
22:O:287:LEU:O	22:O:288:ARG:C	2.62	0.43
23:P:231:LYS:NZ	23:P:240:TYR:HE2	2.17	0.43
23:P:278:ASN:HA	23:P:281:ILE:HG13	2.01	0.43
24:Q:10:GLU:HA	24:Q:13:ARG:HB2	2.00	0.43
25:R:60:ALA:O	25:R:63:TYR:N	2.51	0.43
25:R:78:ASP:CG	25:R:80:GLU:H	2.26	0.43
25:R:130:GLN:CD	25:R:160:LYS:HE3	2.42	0.43
26:S:230:LYS:CD	26:S:257:LEU:HD11	2.49	0.43
26:S:260:PRO:HA	26:S:261:HIS:HA	1.49	0.43
26:S:345:TYR:O	26:S:349:THR:N	2.25	0.43
26:S:386:ASN:HA	26:S:389:LYS:HE2	2.00	0.43
26:S:393:ARG:HB2	26:S:432:ILE:HG22	2.00	0.43
27:T:144:TYR:HB3	27:T:148:LEU:HD11	2.01	0.43
27:T:193:THR:HG22	27:T:235:PHE:HE2	1.82	0.43
27:T:250:MET:N	27:T:252:GLU:HB2	2.23	0.43
27:T:257:THR:CA	27:T:260:ILE:HB	2.42	0.43
28:U:171:VAL:HG13	29:V:213:LEU:HD21	2.00	0.43
28:U:189:ARG:HA	28:U:192:ASN:ND2	2.33	0.43
28:U:193:GLN:O	28:U:196:SER:N	2.45	0.43
28:U:195:LYS:HD3	29:V:233:LYS:CB	2.49	0.43
28:U:263:LYS:CG	28:U:265:LEU:HG	2.48	0.43
30:W:145:GLY:C	30:W:148:GLU:HA	2.43	0.43
33:Z:116:ALA:O	33:Z:120:SER:OG	2.33	0.43
33:Z:784:SER:HA	33:Z:788:PRO:CD	2.40	0.43
33:Z:877:THR:O	33:Z:881:ILE:HG13	2.18	0.43
33:Z:884:THR:HA	33:Z:903:MET:CE	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:37:ILE:HD12	9:b:192:ALA:HB2	2.01	0.43
9:b:116:LYS:O	9:b:120:GLU:HG3	2.19	0.43
12:e:128:SER:OG	13:f:122:SER:O	2.25	0.43
13:f:138:ASP:OD1	13:f:141:GLY:N	2.52	0.43
4:i:178:GLU:HA	4:i:181:ILE:HD12	2.01	0.43
7:l:260:TRP:CD1	7:l:260:TRP:H	2.37	0.43
2:2:92:ASP:O	2:2:96:ILE:HG13	2.19	0.43
4:4:155:SER:HB3	4:4:167:LEU:HD11	2.01	0.43
6:6:91:SER:C	6:6:94:SER:H	2.26	0.43
1:8:49:ILE:HG21	4:i:196:LEU:HD11	2.01	0.43
1:8:49:ILE:O	1:8:55:ASN:ND2	2.52	0.43
2:9:40:THR:O	2:9:62:SER:N	2.42	0.43
2:9:113:LEU:HB2	2:9:118:GLU:CG	2.48	0.43
2:9:220:ARG:O	3:h:45:ILE:N	2.35	0.43
2:9:261:TYR:CD2	3:h:72:GLN:HG2	2.54	0.43
8:A:133:TYR:N	8:A:133:TYR:CD1	2.85	0.43
8:A:200:GLU:HG3	8:A:244:ARG:HH21	1.83	0.43
9:B:49:LYS:HE3	9:B:207:ASP:O	2.18	0.43
9:B:116:LYS:O	9:B:120:GLU:HG3	2.18	0.43
9:B:196:LEU:O	9:B:200:VAL:HG23	2.19	0.43
10:C:91:ALA:HB2	10:C:115:LEU:HD11	2.01	0.43
10:C:124:GLN:HA	11:D:127:ARG:NE	2.34	0.43
10:C:186:VAL:HB	10:C:217:ARG:HH21	1.83	0.43
10:C:201:THR:OG1	10:C:206:LEU:HD13	2.18	0.43
11:D:32:CYS:O	11:D:47:GLU:HG2	2.19	0.43
13:F:166:GLN:O	13:F:169:LYS:HB3	2.19	0.43
14:G:73:HIS:CD2	14:G:74:ILE:HG13	2.53	0.43
14:G:79:SER:OG	14:G:165:THR:HG23	2.19	0.43
15:H:96:PRO:CB	15:H:192:ASP:C	2.80	0.43
15:H:168:ILE:HD12	15:H:168:ILE:HG23	1.80	0.43
15:H:175:GLY:HA3	15:H:189:PRO:CB	2.48	0.43
15:H:178:ARG:HD2	15:H:193:PRO:HD2	2.01	0.43
15:H:282:LYS:HA	16:I:283:TYR:CZ	2.53	0.43
16:I:127:ARG:HE	16:I:184:VAL:HG11	1.82	0.43
16:I:136:LEU:HD23	16:I:136:LEU:HA	1.80	0.43
16:I:420:GLN:O	16:I:424:THR:N	2.52	0.43
17:J:365:ALA:HA	17:J:368:TYR:HD2	1.83	0.43
18:K:96:ILE:HG13	19:L:128:ILE:N	2.33	0.43
18:K:135:MET:HA	18:K:259:ARG:NH1	2.32	0.43
18:K:251:PRO:HB3	18:K:298:GLU:HG2	2.01	0.43
18:K:387:MET:O	18:K:390:ALA:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:391:GLY:HA2	18:K:402:ILE:CD1	2.49	0.43
19:L:111:GLU:HA	19:L:117:TYR:CD1	2.53	0.43
19:L:117:TYR:CE2	19:L:131:VAL:HG12	2.54	0.43
19:L:145:ARG:HH21	19:L:161:ARG:HG3	1.84	0.43
19:L:196:VAL:HG13	19:L:197:ILE:HG13	2.01	0.43
19:L:283:VAL:CG1	19:L:286:ILE:HG13	2.44	0.43
19:L:375:ASP:CG	19:L:378:ALA:HB3	2.44	0.43
20:M:137:PRO:HA	20:M:140:LEU:HD12	2.01	0.43
20:M:336:ALA:CB	20:M:342:ARG:HD3	2.49	0.43
20:M:398:ALA:HB2	20:M:415:PHE:HA	2.01	0.43
21:N:510:HIS:CD2	21:N:513:ILE:HD12	2.53	0.43
21:N:718:GLU:OE1	21:N:725:LEU:HG	2.18	0.43
22:O:41:LEU:CD1	22:O:81:TYR:HB3	2.40	0.43
22:O:283:HIS:HA	22:O:286:PHE:HB2	1.99	0.43
22:O:308:LEU:HB2	22:O:350:ILE:CD1	2.49	0.43
23:P:91:LEU:HB3	23:P:95:TYR:CZ	2.54	0.43
23:P:167:THR:O	23:P:168:TYR:C	2.62	0.43
23:P:188:ILE:O	23:P:191:GLY:N	2.52	0.43
23:P:307:GLU:O	23:P:308:LEU:HB3	2.18	0.43
23:P:392:LYS:HE3	24:Q:354:PHE:HD2	1.82	0.43
23:P:433:ILE:O	23:P:436:GLU:HB2	2.19	0.43
24:Q:58:ILE:CA	24:Q:61:LEU:HB3	2.48	0.43
24:Q:243:PHE:CE1	24:Q:262:LEU:HB2	2.54	0.43
25:R:113:LEU:CD1	25:R:137:LEU:HD13	2.49	0.43
25:R:254:SER:OG	25:R:255:VAL:N	2.52	0.43
26:S:13:SER:O	26:S:17:ASP:N	2.41	0.43
26:S:142:VAL:HA	26:S:145:PHE:CZ	2.53	0.43
26:S:329:GLU:C	26:S:331:SER:H	2.27	0.43
26:S:332:PHE:C	26:S:334:HIS:N	2.77	0.43
27:T:255:GLN:H	27:T:255:GLN:CD	2.27	0.43
28:U:6:GLU:HG2	28:U:43:SER:O	2.19	0.43
28:U:49:THR:O	29:V:39:LYS:HE3	2.19	0.43
29:V:38:LEU:HD23	29:V:38:LEU:HA	1.80	0.43
33:Z:103:TYR:HB2	33:Z:115:LEU:HD23	2.01	0.43
33:Z:112:LYS:HZ3	33:Z:202:ARG:CG	2.27	0.43
33:Z:278:LEU:HB2	33:Z:300:ALA:HB1	1.99	0.43
33:Z:308:LYS:HE2	33:Z:345:GLU:CG	2.49	0.43
33:Z:353:VAL:N	33:Z:354:PRO:HD2	2.34	0.43
33:Z:784:SER:O	33:Z:788:PRO:HG3	2.18	0.43
33:Z:862:MET:N	33:Z:911:LYS:HG3	2.34	0.43
8:a:43:LEU:C	8:a:43:LEU:HD12	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:165:GLY:HA3	9:b:60:THR:HG21	2.01	0.43
8:a:166:TYR:HB3	8:a:168:ALA:O	2.19	0.43
9:b:35:LEU:C	9:b:35:LEU:HD12	2.44	0.43
9:b:175:LEU:HD21	9:b:195:THR:HG21	2.01	0.43
10:c:20:TYR:O	10:c:23:GLU:HB2	2.19	0.43
10:c:149:TYR:CE1	11:d:59:ILE:HD12	2.54	0.43
11:d:32:CYS:O	11:d:47:GLU:HG2	2.19	0.43
11:d:81:ASP:HB3	11:d:129:PHE:HD1	1.84	0.43
11:d:93:ALA:O	11:d:97:ARG:HG3	2.18	0.43
11:d:143:ASP:HB2	11:d:217:PRO:HG3	2.00	0.43
12:e:46:VAL:HG23	12:e:153:TYR:HB3	2.00	0.43
12:e:147:HIS:HD2	12:e:153:TYR:CE2	2.37	0.43
14:g:40:ILE:O	14:g:47:VAL:N	2.41	0.43
14:g:55:THR:HB	14:g:59:LEU:HD11	2.01	0.43
14:g:73:HIS:CD2	14:g:74:ILE:HG13	2.53	0.43
4:i:67:SER:O	4:i:68:PRO:C	2.61	0.43
7:l:94:ARG:NH2	7:l:247:GLY:HA3	2.33	0.43
2:2:60:LEU:HD21	2:2:67:LEU:HD22	2.01	0.43
2:2:93:MET:O	2:2:97:GLU:HG3	2.19	0.43
2:2:246:GLN:O	2:2:248:GLU:HG2	2.19	0.43
4:4:113:LYS:HG3	4:4:114:GLN:N	2.34	0.43
4:4:172:LYS:HG3	4:4:173:GLN:O	2.19	0.43
4:4:176:THR:N	4:4:179:GLU:HB2	2.34	0.43
5:5:80:ARG:CD	9:B:142:PHE:HD2	2.32	0.43
6:6:23:ARG:HD3	6:6:23:ARG:HA	1.73	0.43
7:7:213:GLY:O	6:k:143:LEU:HD21	2.19	0.43
7:7:251:ASN:HB3	7:7:262:TYR:HE1	1.83	0.43
1:8:20:GLN:HG2	1:8:21:PHE:O	2.19	0.43
1:8:42:LEU:HD23	1:8:43:ALA:N	2.34	0.43
1:8:109:ALA:HA	1:8:144:PHE:CZ	2.53	0.43
1:8:225:ILE:HG21	1:8:232:ARG:NH2	2.34	0.43
2:9:37:PRO:O	2:9:38:ILE:HD13	2.19	0.43
10:C:20:TYR:O	10:C:23:GLU:HB2	2.19	0.43
12:E:54:ALA:HA	12:E:59:LEU:HD23	2.01	0.43
12:E:226:ASP:O	12:E:229:LYS:HE2	2.19	0.43
13:F:80:ASP:O	13:F:83:VAL:HB	2.19	0.43
16:I:146:ILE:HD11	16:I:154:ASP:HB3	1.99	0.43
16:I:278:GLU:O	16:I:279:LEU:HD23	2.17	0.43
18:K:180:GLN:O	18:K:183:GLU:HB3	2.18	0.43
18:K:293:GLN:O	18:K:297:ILE:HG12	2.18	0.43
18:K:399:ARG:NH2	18:K:401:VAL:HG23	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:105:ILE:HD11	20:M:128:PHE:CB	2.49	0.43
19:L:112:LEU:HD23	19:L:116:LYS:HB3	2.01	0.43
19:L:123:SER:HB3	20:M:125:GLN:HA	1.99	0.43
19:L:260:ALA:HB1	19:L:264:ARG:CZ	2.49	0.43
19:L:330:PRO:C	19:L:332:THR:H	2.26	0.43
19:L:386:PHE:CZ	19:L:422:VAL:HG12	2.53	0.43
20:M:77:TYR:CD2	20:M:148:VAL:N	2.87	0.43
20:M:180:TYR:HE2	20:M:238:GLN:OE1	2.02	0.43
20:M:194:VAL:HA	20:M:198:VAL:HG23	2.01	0.43
21:N:150:LEU:HD13	21:N:169:ALA:HB1	2.01	0.43
21:N:194:ILE:HD13	21:N:227:LYS:HE2	2.01	0.43
21:N:198:THR:OG1	21:N:199:ASN:N	2.52	0.43
21:N:669:GLU:C	21:N:671:LEU:H	2.27	0.43
23:P:220:TYR:OH	23:P:224:LEU:HD13	2.18	0.43
23:P:435:LYS:HG2	23:P:439:MET:HG3	2.00	0.43
24:Q:27:TYR:CG	24:Q:61:LEU:HD13	2.54	0.43
24:Q:53:GLU:HA	24:Q:56:THR:OG1	2.19	0.43
24:Q:314:PHE:HD2	24:Q:339:TYR:CE2	2.37	0.43
25:R:134:TRP:HB3	25:R:157:SER:OG	2.18	0.43
25:R:198:ILE:HG12	25:R:200:LYS:CG	2.49	0.43
25:R:280:ILE:O	25:R:282:THR:N	2.52	0.43
25:R:302:ALA:O	25:R:303:SER:C	2.62	0.43
26:S:230:LYS:CE	26:S:257:LEU:HD11	2.49	0.43
27:T:37:ASN:O	27:T:39:LEU:HG	2.18	0.43
27:T:149:ASP:OD1	27:T:153:MET:HE3	2.19	0.43
28:U:230:GLN:HA	28:U:233:PHE:CZ	2.54	0.43
28:U:285:ILE:HA	28:U:288:PHE:HD2	1.75	0.43
30:W:35:PHE:CD2	30:W:182:TYR:HB2	2.53	0.43
30:W:125:LEU:HD22	30:W:153:LEU:HD22	2.01	0.43
30:W:126:ILE:HG23	30:W:160:ALA:HB1	2.01	0.43
30:W:177:GLY:C	30:W:179:ARG:H	2.24	0.43
33:Z:140:LEU:HD21	33:Z:199:ASP:OD1	2.19	0.43
33:Z:157:LEU:HD23	33:Z:157:LEU:HA	1.80	0.43
33:Z:762:GLY:H	33:Z:789:GLN:HE22	1.64	0.43
33:Z:764:LEU:HA	33:Z:767:TYR:CE2	2.54	0.43
33:Z:766:HIS:HD1	33:Z:799:PHE:HE2	1.64	0.43
8:a:135:ARG:NE	14:g:125:LEU:HD23	2.34	0.43
8:a:244:ARG:O	8:a:248:ILE:HG23	2.19	0.43
9:b:49:LYS:HE3	9:b:207:ASP:O	2.18	0.43
10:c:47:ALA:HB2	10:c:213:PHE:HD1	1.84	0.43
11:d:187:THR:HG22	11:d:189:GLU:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j:87:PHE:O	5:j:91:VAL:HG23	2.18	0.43
6:k:147:HIS:O	6:k:149:ARG:NH1	2.52	0.43
7:l:112:ILE:HB	7:l:116:LEU:HB2	2.01	0.43
7:l:276:LYS:HG3	7:l:281:SER:O	2.19	0.43
1:1:219:ASP:OD1	1:1:240:ARG:HA	2.18	0.42
2:2:58:ASP:HA	2:2:228:PHE:HB3	2.00	0.42
2:2:143:LEU:HD23	2:2:143:LEU:HA	1.82	0.42
4:4:113:LYS:HG3	4:4:114:GLN:H	1.83	0.42
7:7:141:HIS:CE1	7:7:145:GLU:HG3	2.53	0.42
7:7:241:HIS:CE1	5:j:183:TRP:NE1	2.87	0.42
7:7:242:ARG:HA	5:j:183:TRP:HZ2	1.84	0.42
1:8:68:ASN:ND2	1:8:230:GLY:HA2	2.34	0.42
1:8:192:LYS:HB3	1:8:192:LYS:HE3	1.76	0.42
2:9:55:ILE:O	2:9:230:LEU:HG	2.19	0.42
8:A:42:SER:N	8:A:171:THR:O	2.26	0.42
8:A:244:ARG:O	8:A:248:ILE:HG23	2.19	0.42
13:F:50:LYS:HG2	13:F:61:LYS:HA	2.00	0.42
15:H:77:ALA:CB	15:H:102:CYS:HA	2.49	0.42
16:I:271:PHE:HE1	16:I:352:ILE:HD12	1.83	0.42
16:I:398:LEU:HD22	16:I:402:VAL:HG11	2.01	0.42
17:J:86:VAL:O	17:J:93:LYS:HA	2.19	0.42
17:J:143:PRO:HD2	17:J:210:PHE:CB	2.35	0.42
18:K:71:GLU:CD	21:N:608:LEU:HD13	2.44	0.42
18:K:280:LYS:HG3	18:K:281:ARG:O	2.18	0.42
18:K:379:SER:O	18:K:383:ILE:HG13	2.19	0.42
19:L:166:LEU:HD23	19:L:170:MET:SD	2.59	0.42
19:L:226:THR:O	19:L:388:GLY:HA3	2.19	0.42
19:L:382:MET:HB2	19:L:419:VAL:HG11	2.00	0.42
20:M:282:GLU:HA	20:M:327:THR:HG22	2.01	0.42
21:N:57:ASP:O	21:N:59:GLU:N	2.52	0.42
21:N:139:ARG:O	21:N:142:GLU:HB2	2.19	0.42
21:N:245:LEU:HD13	21:N:253:LEU:HD23	2.01	0.42
21:N:900:ASN:O	21:N:903:VAL:HG13	2.19	0.42
22:O:12:SER:O	22:O:43:GLU:HB3	2.19	0.42
22:O:59:LEU:HA	22:O:62:TYR:CD2	2.54	0.42
22:O:190:TYR:HA	22:O:193:LEU:HD23	2.01	0.42
22:O:197:SER:HA	22:O:200:GLU:HB2	2.00	0.42
22:O:360:GLY:CA	22:O:363:ILE:HD12	2.49	0.42
23:P:40:LEU:HB3	23:P:44:LYS:NZ	2.34	0.42
23:P:270:LEU:HA	23:P:341:LEU:HD21	1.99	0.42
23:P:383:LEU:HA	23:P:383:LEU:HD23	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:422:LEU:HD22	23:P:426:ILE:HG23	2.01	0.42
24:Q:8:LEU:HG	24:Q:12:ARG:HH12	1.84	0.42
24:Q:75:ARG:O	24:Q:78:ILE:HB	2.19	0.42
24:Q:146:TYR:CZ	24:Q:183:LYS:HB3	2.54	0.42
25:R:131:ALA:O	25:R:135:ILE:HG12	2.19	0.42
25:R:259:PHE:CZ	25:R:332:GLU:HB3	2.51	0.42
26:S:200:GLU:N	26:S:201:ILE:CA	2.82	0.42
26:S:436:ILE:CG1	26:S:443:ILE:HG23	2.49	0.42
27:T:66:ALA:HB1	27:T:78:PHE:CD1	2.54	0.42
27:T:78:PHE:CE2	27:T:109:TYR:HB2	2.54	0.42
27:T:147:LYS:O	27:T:150:ARG:HB2	2.19	0.42
27:T:194:GLU:HA	27:T:235:PHE:CD2	2.54	0.42
27:T:213:ASN:O	27:T:216:GLU:HB2	2.19	0.42
27:T:261:GLU:HA	27:T:264:MET:HE3	2.00	0.42
28:U:279:SER:O	28:U:280:ASN:C	2.61	0.42
29:V:135:ARG:HB2	29:V:157:ARG:NE	2.34	0.42
29:V:231:GLU:O	29:V:235:GLU:N	2.52	0.42
30:W:113:PHE:CE1	30:W:181:LEU:HD21	2.48	0.42
33:Z:99:LEU:HG	33:Z:115:LEU:HD11	2.01	0.42
33:Z:264:PHE:HA	33:Z:267:THR:HB	2.01	0.42
33:Z:407:VAL:HG13	33:Z:418:ALA:HB3	2.01	0.42
33:Z:862:MET:HE3	33:Z:909:ARG:O	2.18	0.42
33:Z:923:ILE:C	33:Z:959:HIS:ND1	2.77	0.42
33:Z:925:VAL:HG23	33:Z:992:GLU:O	2.19	0.42
33:Z:928:ARG:HD2	33:Z:968:ASP:HA	1.99	0.42
8:a:46:ARG:NH2	8:a:192:ASP:HB2	2.34	0.42
8:a:135:ARG:HE	14:g:125:LEU:HA	1.84	0.42
9:b:35:LEU:HD11	9:b:46:ALA:HB3	2.01	0.42
9:b:157:PHE:HE1	9:b:159:TRP:CZ2	2.37	0.42
11:d:97:ARG:HA	11:d:102:ASP:O	2.19	0.42
12:e:151:ASP:HB3	12:e:154:GLN:CD	2.44	0.42
12:e:188:HIS:CE1	12:e:190:SER:HG	2.30	0.42
13:f:213:ILE:HB	13:f:225:TYR:HB2	2.01	0.42
14:g:70:VAL:O	14:g:74:ILE:HB	2.19	0.42
4:i:133:ASP:CG	4:i:135:THR:HG1	2.18	0.42
4:i:143:HIS:HB2	4:i:147:SER:OG	2.18	0.42
4:i:178:GLU:N	4:i:178:GLU:OE1	2.25	0.42
6:k:184:VAL:HA	6:k:188:GLY:O	2.20	0.42
7:l:162:VAL:HG11	7:l:192:SER:HA	2.01	0.42
1:l:49:ILE:O	1:l:55:ASN:ND2	2.52	0.42
1:l:108:ALA:O	1:l:112:ILE:N	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:94:GLN:HB3	3:h:102:LYS:NZ	2.34	0.42
3:3:23:MET:HG2	3:3:178:LEU:HD21	2.02	0.42
4:4:143:HIS:HB2	4:4:147:SER:OG	2.19	0.42
5:5:27:LEU:HD23	5:5:27:LEU:HA	1.80	0.42
5:5:124:PHE:CE1	5:5:130:ILE:HA	2.54	0.42
6:6:86:GLN:OE1	10:C:101:THR:HA	2.19	0.42
6:6:141:PHE:O	6:6:145:ASP:N	2.33	0.42
2:9:246:GLN:O	2:9:248:GLU:HG2	2.19	0.42
8:A:20:SER:N	8:A:24:ARG:H	2.15	0.42
8:A:46:ARG:NH2	8:A:192:ASP:HB2	2.34	0.42
9:B:2:THR:O	9:B:3:ASP:C	2.62	0.42
9:B:175:LEU:HD21	9:B:195:THR:HG21	2.01	0.42
10:C:189:ALA:HA	10:C:192:LEU:HB3	2.01	0.42
11:D:83:ARG:HA	11:D:86:ILE:HD12	2.00	0.42
12:E:236:THR:O	12:E:240:ILE:HG13	2.19	0.42
13:F:198:SER:O	13:F:201:LEU:HB2	2.19	0.42
14:G:81:LEU:HB2	14:G:84:ASP:OD2	2.19	0.42
15:H:282:LYS:NZ	16:I:286:ASP:HB2	2.34	0.42
15:H:341:ASP:OD1	15:H:367:ARG:NH2	2.52	0.42
15:H:426:ALA:O	15:H:429:PHE:HB2	2.19	0.42
16:I:242:PRO:HG3	16:I:346:ARG:CA	2.49	0.42
16:I:276:GLY:O	16:I:279:LEU:N	2.42	0.42
18:K:138:ALA:O	18:K:147:VAL:N	2.44	0.42
18:K:177:LEU:HA	18:K:177:LEU:HD23	1.74	0.42
18:K:275:ASP:OD1	18:K:275:ASP:N	2.49	0.42
18:K:281:ARG:NH1	18:K:290:ARG:HG2	2.34	0.42
19:L:95:ILE:HD13	20:M:32:THR:OG1	2.19	0.42
19:L:228:LYS:HZ3	19:L:328:ASN:HA	1.85	0.42
20:M:145:LEU:CB	20:M:159:LEU:HB2	2.49	0.42
20:M:230:LEU:HA	20:M:233:ARG:HB2	2.00	0.42
21:N:13:LEU:HD12	21:N:13:LEU:HA	1.85	0.42
21:N:335:ALA:HA	21:N:338:PHE:CD2	2.54	0.42
21:N:412:TYR:O	21:N:416:GLY:N	2.52	0.42
21:N:761:ILE:CG2	21:N:766:GLN:HG2	2.49	0.42
22:O:82:LEU:C	22:O:84:ALA:N	2.74	0.42
22:O:301:PHE:HB2	22:O:305:ILE:HA	2.00	0.42
23:P:168:TYR:CB	23:P:170:SER:H	2.32	0.42
23:P:207:THR:HA	23:P:210:ASN:ND2	2.34	0.42
23:P:362:LEU:HD11	23:P:373:GLU:HA	2.00	0.42
24:Q:278:VAL:O	24:Q:282:LEU:HG	2.18	0.42
25:R:76:GLN:CB	25:R:87:SER:HB2	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:193:ALA:O	25:R:197:MET:HG2	2.19	0.42
25:R:274:PRO:HA	25:R:277:LEU:HB2	2.01	0.42
25:R:301:TYR:CE2	25:R:359:VAL:HG11	2.49	0.42
25:R:365:ASP:HA	25:R:368:LEU:HB3	2.01	0.42
25:R:420:ALA:O	25:R:421:VAL:C	2.61	0.42
26:S:345:TYR:HA	26:S:348:LEU:HB2	2.01	0.42
26:S:360:PHE:CZ	26:S:380:CYS:HB3	2.49	0.42
26:S:368:LYS:CE	27:T:133:ILE:HD13	2.49	0.42
27:T:133:ILE:HG23	27:T:137:GLU:HG2	2.02	0.42
27:T:214:GLU:O	27:T:217:THR:HB	2.18	0.42
28:U:275:VAL:HA	28:U:278:ILE:HG13	2.00	0.42
29:V:23:THR:OG1	29:V:164:LEU:N	2.34	0.42
29:V:52:LEU:HB2	29:V:69:PHE:CE2	2.54	0.42
29:V:146:SER:HA	29:V:152:VAL:H	1.83	0.42
30:W:15:TYR:OH	30:W:149:GLN:NE2	2.52	0.42
30:W:188:SER:C	30:W:190:ILE:H	2.26	0.42
31:X:36:LYS:O	31:X:38:ASN:N	2.52	0.42
31:X:69:ILE:HA	31:X:70:PRO:HD3	1.83	0.42
33:Z:112:LYS:HG2	33:Z:140:LEU:O	2.19	0.42
33:Z:565:PHE:HZ	33:Z:896:LYS:HZ3	1.67	0.42
33:Z:602:LEU:HD11	33:Z:882:LEU:HD21	2.00	0.42
8:a:204:GLU:OE2	8:a:244:ARG:HA	2.19	0.42
10:c:120:GLN:NE2	11:d:84:ILE:HG12	2.34	0.42
10:c:180:TYR:CZ	10:c:182:ASP:HA	2.54	0.42
11:d:83:ARG:HA	11:d:86:ILE:HD12	2.00	0.42
12:e:85:ALA:O	12:e:89:ILE:HG12	2.18	0.42
12:e:147:HIS:NE2	12:e:152:GLY:HA2	2.34	0.42
12:e:226:ASP:O	12:e:229:LYS:HE2	2.19	0.42
13:f:166:GLN:O	13:f:169:LYS:HB3	2.19	0.42
14:g:171:SER:O	14:g:175:GLU:HG2	2.20	0.42
14:g:204:HIS:CD2	14:g:208:LYS:HA	2.54	0.42
3:h:23:MET:CB	3:h:145:ILE:HG22	2.50	0.42
3:h:171:VAL:O	3:h:174:ILE:HB	2.19	0.42
4:i:74:GLY:HA2	4:i:126:TYR:O	2.18	0.42
4:i:172:LYS:HG3	4:i:173:GLN:O	2.19	0.42
5:j:193:ASP:OD1	5:j:194:GLU:HG2	2.19	0.42
3:3:23:MET:CB	3:3:145:ILE:HG22	2.50	0.42
3:3:32:ILE:HD11	3:3:167:LYS:HG3	2.01	0.42
3:3:64:ARG:HD2	3:3:71:THR:HB	2.01	0.42
4:4:225:ARG:HG2	4:4:226:GLU:O	2.19	0.42
7:7:176:ILE:O	7:7:187:ILE:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:143:LEU:HA	2:9:143:LEU:HD23	1.82	0.42
8:A:40:ILE:HA	8:A:56:GLN:OE1	2.19	0.42
9:B:149:GLN:O	9:B:156:TYR:HA	2.19	0.42
9:B:205:ASN:OD1	9:B:208:THR:N	2.47	0.42
14:G:12:ASN:HB3	14:G:127:ASN:CA	2.48	0.42
15:H:186:PRO:C	15:H:187:LEU:O	2.62	0.42
15:H:249:TYR:O	15:H:377:PHE:HB2	2.19	0.42
15:H:270:THR:HG21	15:H:301:LYS:HD3	2.00	0.42
15:H:389:PHE:CE1	15:H:422:VAL:HG21	2.53	0.42
15:H:405:GLU:HG2	15:H:409:ARG:NH1	2.35	0.42
16:I:282:LYS:C	17:J:221:LYS:HD2	2.44	0.42
16:I:362:ASP:O	16:I:365:LEU:HB3	2.18	0.42
18:K:218:GLY:HA2	18:K:221:MET:SD	2.59	0.42
18:K:281:ARG:HB3	18:K:283:ASP:O	2.19	0.42
19:L:351:LEU:HD13	19:L:385:GLY:C	2.44	0.42
20:M:132:VAL:HG21	20:M:155:ILE:O	2.20	0.42
20:M:318:ASP:HB2	20:M:321:VAL:HG22	2.00	0.42
20:M:357:ARG:NH2	20:M:383:THR:C	2.77	0.42
20:M:378:GLU:OE1	20:M:412:HIS:CE1	2.72	0.42
21:N:23:TYR:CG	27:T:35:ILE:HG23	2.54	0.42
21:N:60:MET:HE2	21:N:88:ARG:HH21	1.84	0.42
21:N:117:TYR:CE1	21:N:121:GLU:HG2	2.54	0.42
21:N:163:LEU:HD22	21:N:209:LYS:HE3	2.01	0.42
21:N:181:GLU:HA	21:N:184:LYS:HB2	2.01	0.42
21:N:239:LEU:HD23	21:N:242:PHE:CD2	2.50	0.42
21:N:277:LEU:HG	21:N:282:TYR:HB3	2.01	0.42
21:N:405:LEU:HB3	21:N:446:ALA:HA	2.01	0.42
21:N:409:GLY:O	21:N:413:ALA:N	2.53	0.42
21:N:745:LEU:HD23	21:N:745:LEU:HA	1.81	0.42
22:O:76:LEU:HD21	22:O:79:VAL:HG13	2.02	0.42
22:O:296:LEU:HA	22:O:300:VAL:CG2	2.50	0.42
22:O:306:ARG:NH1	22:O:351:SER:O	2.52	0.42
22:O:365:LYS:HA	22:O:368:ASP:OD2	2.20	0.42
22:O:380:LEU:C	22:O:382:LYS:N	2.76	0.42
23:P:43:GLU:O	23:P:47:ARG:HB3	2.18	0.42
23:P:127:GLU:O	23:P:136:ARG:HD2	2.19	0.42
23:P:287:ASP:CB	23:P:294:GLU:HG2	2.49	0.42
23:P:393:VAL:HB	24:Q:352:GLU:CA	2.39	0.42
24:Q:9:GLU:HA	24:Q:12:ARG:HH11	1.83	0.42
24:Q:41:ALA:HB1	24:Q:51:ARG:HG2	2.00	0.42
25:R:40:ILE:HA	25:R:43:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:93:LYS:HG2	25:R:94:PHE:N	2.34	0.42
25:R:95:ASP:O	25:R:98:LEU:HB3	2.19	0.42
25:R:146:ASP:C	25:R:148:ASP:N	2.77	0.42
25:R:384:VAL:HG12	25:R:385:ASN:N	2.33	0.42
26:S:422:MET:HG2	26:S:425:ARG:HH11	1.83	0.42
27:T:152:LEU:HD23	27:T:157:TYR:HD2	1.85	0.42
28:U:172:GLU:O	28:U:176:ARG:NH1	2.46	0.42
28:U:273:LEU:O	28:U:276:ILE:HB	2.19	0.42
33:Z:110:ASN:O	33:Z:113:SER:N	2.39	0.42
33:Z:117:ASP:HB2	33:Z:144:SER:HA	2.01	0.42
33:Z:321:PHE:CZ	33:Z:331:GLY:HA2	2.53	0.42
33:Z:501:LYS:HA	33:Z:533:VAL:HG13	2.00	0.42
9:b:77:GLY:CA	9:b:132:VAL:HG12	2.49	0.42
10:c:185:LYS:HE3	10:c:187:ASP:HB2	2.01	0.42
13:f:48:ALA:HB1	13:f:62:LYS:HB2	2.01	0.42
13:f:171:TYR:CA	13:f:174:ARG:HB3	2.46	0.42
13:f:198:SER:O	13:f:201:LEU:HB2	2.19	0.42
4:i:92:ILE:O	4:i:96:SER:N	2.32	0.42
1:l:29:GLY:C	1:l:61:LYS:NZ	2.77	0.42
1:l:156:ARG:NH1	7:l:102:ALA:O	2.43	0.42
4:4:234:PHE:CE2	5:5:169:GLN:HB2	2.55	0.42
5:5:31:SER:O	5:5:34:LEU:HB3	2.18	0.42
6:6:69:ILE:HD13	11:D:68:ASP:HA	2.01	0.42
6:6:109:LYS:O	6:6:112:ASN:N	2.52	0.42
6:6:147:HIS:O	6:6:149:ARG:NH1	2.52	0.42
6:6:165:VAL:HG12	6:6:169:GLU:HG3	2.00	0.42
6:6:184:VAL:HA	6:6:188:GLY:O	2.20	0.42
1:8:212:GLU:CG	4:i:225:ARG:HD2	2.49	0.42
1:8:221:LEU:HD21	1:8:223:ILE:HD11	2.02	0.42
2:9:220:ARG:NE	4:i:164:MET:SD	2.92	0.42
8:A:167:LYS:N	9:B:55:LEU:O	2.51	0.42
8:A:214:LEU:HD23	8:A:214:LEU:HA	1.83	0.42
9:B:119:GLN:NE2	10:C:86:ILE:HG13	2.34	0.42
10:C:185:LYS:HE3	10:C:187:ASP:HB2	2.01	0.42
12:E:85:ALA:O	12:E:89:ILE:HG12	2.18	0.42
13:F:48:ALA:HB1	13:F:62:LYS:HB2	2.01	0.42
13:F:138:ASP:OD1	13:F:141:GLY:N	2.52	0.42
13:F:171:TYR:CB	13:F:199:GLN:HG3	2.49	0.42
14:G:183:HIS:ND1	14:G:185:GLU:OE2	2.45	0.42
15:H:204:PRO:HG2	15:H:264:ALA:HB3	2.00	0.42
15:H:247:LEU:C	15:H:248:LEU:HD12	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:254:THR:HG22	16:I:367:ARG:CZ	2.49	0.42
15:H:381:ASP:OD2	15:H:383:GLU:HB2	2.19	0.42
16:I:319:TYR:CD2	16:I:320:ASP:HB2	2.53	0.42
17:J:146:THR:HG23	17:J:149:MET:HG3	2.01	0.42
17:J:189:GLY:H	17:J:295:ASN:CG	2.27	0.42
17:J:389:VAL:HG12	17:J:393:ASN:ND2	2.34	0.42
18:K:191:PRO:HB2	18:K:313:LYS:HZ3	1.84	0.42
18:K:216:GLY:N	18:K:220:THR:H	2.13	0.42
19:L:92:GLU:C	19:L:96:LYS:HZ3	2.26	0.42
19:L:243:PHE:CE2	19:L:245:PHE:HB2	2.54	0.42
19:L:252:VAL:HG21	19:L:303:ARG:HH22	1.85	0.42
19:L:378:ALA:HA	19:L:381:LYS:CD	2.49	0.42
19:L:421:LYS:HA	19:L:424:GLU:OE1	2.19	0.42
20:M:313:ASP:HB2	20:M:342:ARG:HH21	1.84	0.42
21:N:7:ALA:O	27:T:83:ASN:HB3	2.20	0.42
21:N:313:LEU:O	21:N:317:SER:N	2.52	0.42
21:N:324:LYS:HB2	21:N:328:PHE:N	2.33	0.42
21:N:367:ALA:O	21:N:370:SER:HB2	2.19	0.42
21:N:368:THR:HG21	21:N:400:ILE:O	2.19	0.42
21:N:593:PHE:CE1	21:N:627:ILE:HD13	2.55	0.42
21:N:685:VAL:HG22	21:N:691:GLN:HG3	2.02	0.42
21:N:891:VAL:O	21:N:906:ARG:HB3	2.19	0.42
22:O:87:LYS:HG3	22:O:135:ARG:HG3	2.01	0.42
22:O:338:LYS:HB3	22:O:351:SER:HB2	2.01	0.42
22:O:380:LEU:CD1	27:T:258:ASN:HD22	2.25	0.42
23:P:39:LEU:HA	23:P:62:ILE:HD13	2.01	0.42
23:P:234:TYR:CE1	23:P:329:PHE:HE1	2.37	0.42
24:Q:293:SER:HB2	24:Q:324:GLU:OE2	2.19	0.42
24:Q:389:VAL:C	25:R:348:LEU:CB	2.92	0.42
25:R:49:PHE:O	25:R:53:LYS:HG3	2.19	0.42
25:R:302:ALA:O	25:R:306:PRO:HD2	2.19	0.42
26:S:342:LEU:CD2	26:S:346:TYR:HB2	2.49	0.42
27:T:249:MET:HG3	27:T:252:GLU:OE2	2.19	0.42
28:U:19:LEU:HD22	28:U:125:VAL:HA	2.00	0.42
28:U:32:ARG:HH22	28:U:100:ARG:HB2	1.84	0.42
28:U:235:LEU:O	28:U:261:LEU:HD11	2.20	0.42
29:V:110:SER:HB2	29:V:143:PRO:HG3	2.00	0.42
30:W:4:GLU:OE2	30:W:109:ARG:NH2	2.52	0.42
30:W:85:LEU:HD12	30:W:118:ILE:HA	2.01	0.42
30:W:101:ARG:HG3	30:W:104:LYS:HG2	2.00	0.42
31:X:121:ILE:O	31:X:125:MET:N	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:341:TYR:HA	33:Z:345:GLU:CD	2.44	0.42
33:Z:394:TYR:CE2	33:Z:858:GLY:HA2	2.54	0.42
33:Z:490:ILE:CD1	33:Z:526:ALA:HB2	2.49	0.42
33:Z:511:PRO:HA	33:Z:514:ALA:HB3	2.02	0.42
9:b:148:TYR:HD1	9:b:158:PRO:HA	1.83	0.42
10:c:152:ASN:CG	10:c:154:SER:HG	2.20	0.42
11:d:110:THR:HG23	11:d:135:ILE:HD12	2.01	0.42
11:d:120:TYR:HA	11:d:123:SER:CB	2.48	0.42
12:e:184:LEU:HA	13:f:56:LEU:HD11	2.00	0.42
12:e:187:TRP:CD1	12:e:191:LEU:HD12	2.54	0.42
13:f:171:TYR:CB	13:f:199:GLN:HG3	2.49	0.42
14:g:201:TYR:HD1	14:g:212:PHE:HZ	1.66	0.42
3:h:64:ARG:HD2	3:h:71:THR:HB	2.02	0.42
3:h:157:CYS:O	3:h:161:PHE:N	2.52	0.42
4:i:88:ILE:HG13	4:i:112:LEU:CD2	2.49	0.42
5:j:31:SER:O	5:j:34:LEU:HB3	2.18	0.42
6:k:2:ASP:OD2	6:k:34:LYS:HE2	2.16	0.42
6:k:183:ILE:O	6:k:189:ILE:HA	2.20	0.42
1:l:147:VAL:HG23	7:l:125:ALA:HB3	1.99	0.42
1:l:171:ASN:ND2	5:5:169:GLN:HB3	2.35	0.42
1:l:179:TYR:O	4:4:238:THR:HA	2.20	0.42
1:l:225:ILE:HG12	1:1:232:ARG:HH21	1.83	0.42
2:2:234:ASP:HB3	2:2:237:THR:OG1	2.20	0.42
3:3:44:TYR:HE2	3:3:46:ALA:HA	1.82	0.42
3:3:55:ARG:HG3	3:3:57:HIS:O	2.19	0.42
3:3:157:CYS:O	3:3:161:PHE:N	2.52	0.42
4:4:88:ILE:HG13	4:4:112:LEU:CD2	2.49	0.42
4:4:153:TYR:OH	4:4:168:GLU:OE2	2.26	0.42
1:8:134:ASP:OD2	1:8:138:LYS:HB2	2.19	0.42
2:9:95:HIS:O	2:9:99:LEU:HG	2.20	0.42
8:A:78:THR:O	8:A:233:PHE:HB2	2.20	0.42
8:A:123:ASN:O	8:A:126:GLN:HB3	2.20	0.42
9:B:181:ASP:OD1	9:B:181:ASP:N	2.51	0.42
12:E:74:ILE:HG12	12:E:109:VAL:HG22	2.02	0.42
14:G:204:HIS:CD2	14:G:208:LYS:HA	2.54	0.42
15:H:164:SER:HB2	15:H:168:ILE:CA	2.50	0.42
15:H:204:PRO:HD2	15:H:265:ASN:HB2	2.01	0.42
15:H:456:LYS:HG3	16:I:366:ILE:HD12	2.02	0.42
16:I:381:ASP:O	16:I:382:LEU:C	2.62	0.42
17:J:171:PRO:HB3	17:J:181:GLN:HE22	1.84	0.42
18:K:123:LEU:HB3	18:K:125:THR:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:174:VAL:HG21	18:K:218:GLY:CA	2.50	0.42
18:K:180:GLN:NE2	18:K:340:PHE:HA	2.30	0.42
18:K:339:GLU:O	18:K:341:PRO:N	2.51	0.42
18:K:365:GLU:O	18:K:404:GLN:HB2	2.18	0.42
19:L:145:ARG:CZ	19:L:161:ARG:HG3	2.48	0.42
19:L:281:ASP:OD1	19:L:282:GLU:HG2	2.19	0.42
20:M:228:LYS:HA	20:M:231:LEU:HD12	2.02	0.42
21:N:80:LYS:HA	21:N:83:LEU:HD12	2.02	0.42
21:N:184:LYS:HD3	21:N:188:TYR:OH	2.20	0.42
21:N:890:PHE:CE1	21:N:907:ASP:OD1	2.72	0.42
22:O:137:TYR:CD1	22:O:146:ALA:HA	2.55	0.42
22:O:338:LYS:HB2	22:O:351:SER:HB2	2.02	0.42
23:P:94:GLN:CD	23:P:124:VAL:HG21	2.44	0.42
23:P:267:PHE:HA	23:P:270:LEU:HB2	2.00	0.42
23:P:335:LYS:HB3	23:P:339:GLU:OE1	2.20	0.42
25:R:36:SER:HA	25:R:42:GLN:CG	2.49	0.42
25:R:68:GLU:HA	25:R:71:LEU:CB	2.49	0.42
25:R:200:LYS:CD	25:R:202:GLY:C	2.92	0.42
25:R:355:SER:O	25:R:358:GLY:N	2.31	0.42
25:R:402:LEU:HD22	25:R:405:LYS:CE	2.50	0.42
26:S:230:LYS:O	26:S:233:LEU:N	2.51	0.42
26:S:234:ILE:HG22	26:S:238:LEU:CG	2.49	0.42
26:S:259:TYR:HE2	26:S:272:TYR:HB2	1.80	0.42
26:S:287:SER:O	26:S:291:GLU:HG3	2.19	0.42
26:S:362:SER:O	26:S:366:LYS:N	2.42	0.42
26:S:461:PHE:CD2	28:U:277:TYR:CD2	3.03	0.42
27:T:99:SER:H	27:T:102:LYS:HZ3	1.68	0.42
28:U:54:LEU:HD13	28:U:68:LEU:HD21	2.02	0.42
28:U:176:ARG:HB2	28:U:176:ARG:CZ	2.49	0.42
29:V:52:LEU:O	29:V:68:VAL:HG23	2.18	0.42
29:V:91:MET:O	29:V:94:MET:N	2.53	0.42
30:W:94:ALA:O	30:W:97:THR:HB	2.19	0.42
30:W:126:ILE:O	30:W:130:LYS:N	2.29	0.42
30:W:140:ASP:OD2	30:W:190:ILE:HA	2.19	0.42
33:Z:312:TYR:OH	33:Z:914:LEU:HD21	2.19	0.42
33:Z:440:LEU:HD21	33:Z:477:TYR:CD1	2.55	0.42
33:Z:473:LEU:HG	33:Z:477:TYR:CE2	2.55	0.42
33:Z:890:SER:O	33:Z:895:LEU:HD13	2.19	0.42
8:a:63:LEU:HD21	14:g:177:GLU:N	2.34	0.42
9:b:21:ILE:HD11	9:b:122:THR:HG21	2.02	0.42
10:c:91:ALA:HB2	10:c:115:LEU:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:37:LYS:HD2	11:d:145:PRO:HB2	2.00	0.42
11:d:70:HIS:CG	11:d:71:VAL:HG23	2.55	0.42
11:d:178:ASN:HB3	11:d:194:LEU:HD11	2.02	0.42
13:f:49:LEU:HD11	13:f:210:ASN:HB3	2.01	0.42
13:f:117:GLN:HE22	14:g:130:ARG:NH2	2.18	0.42
14:g:194:LYS:HA	14:g:239:ALA:HB1	2.00	0.42
14:g:224:THR:HG22	14:g:229:LYS:HD3	2.00	0.42
3:h:23:MET:HG2	3:h:178:LEU:HD21	2.02	0.42
3:h:67:SER:HB3	3:h:70:ASP:CG	2.45	0.42
4:i:245:SER:OG	5:j:197:LYS:HB3	2.20	0.42
5:j:51:LEU:HD13	5:j:109:VAL:HG22	1.99	0.42
6:k:85:ARG:HG3	6:k:123:GLY:O	2.20	0.42
6:k:182:LYS:HG2	6:k:191:GLN:HB2	2.02	0.42
1:1:36:GLY:HA3	1:1:39:PHE:CD1	2.55	0.42
1:1:96:PHE:HB3	13:f:89:ARG:NH1	2.34	0.42
1:1:119:LYS:O	1:1:120:ARG:C	2.62	0.42
2:2:134:TYR:O	2:2:137:ARG:HB3	2.19	0.42
3:3:13:LYS:O	4:4:145:HIS:NE2	2.49	0.42
3:3:78:VAL:HG21	3:3:101:PHE:CD1	2.55	0.42
3:3:145:ILE:HD11	3:3:154:TYR:CE1	2.54	0.42
4:4:97:LEU:O	4:4:100:SER:N	2.52	0.42
6:6:1:MET:HG2	6:6:2:ASP:N	2.35	0.42
6:6:85:ARG:HG3	6:6:123:GLY:O	2.20	0.42
6:6:182:LYS:HG2	6:6:191:GLN:HB2	2.02	0.42
1:8:36:GLY:HA3	1:8:39:PHE:CD1	2.55	0.42
1:8:153:GLU:CD	1:8:156:ARG:HH21	2.28	0.42
2:9:46:SER:OG	2:9:160:LEU:HD11	2.20	0.42
2:9:92:ASP:O	2:9:96:ILE:HG13	2.19	0.42
8:A:166:TYR:HB3	8:A:168:ALA:O	2.19	0.42
9:B:67:LEU:N	9:B:71:ILE:O	2.53	0.42
9:B:157:PHE:HE1	9:B:159:TRP:CZ2	2.37	0.42
10:C:14:SER:HB2	10:C:20:TYR:OH	2.20	0.42
10:C:50:ARG:CZ	10:C:59:GLN:HG3	2.50	0.42
10:C:180:TYR:CZ	10:C:182:ASP:HA	2.54	0.42
11:D:67:ILE:HG21	11:D:109:LEU:HD11	2.02	0.42
12:E:147:HIS:NE2	12:E:152:GLY:HA2	2.34	0.42
12:E:187:TRP:CD1	12:E:191:LEU:HD12	2.54	0.42
15:H:287:GLY:O	15:H:291:VAL:HG23	2.19	0.42
16:I:254:THR:HB	16:I:417:ALA:HB2	2.02	0.42
18:K:49:PHE:CD1	21:N:152:LEU:HB2	2.49	0.42
18:K:132:LYS:HB2	18:K:135:MET:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:215:PRO:O	18:K:217:THR:N	2.52	0.42
18:K:233:ALA:O	18:K:267:SER:OG	2.18	0.42
18:K:242:PHE:CZ	18:K:254:VAL:HG22	2.46	0.42
18:K:281:ARG:HG3	18:K:289:ASP:C	2.44	0.42
18:K:362:LEU:HA	18:K:402:ILE:HB	2.01	0.42
19:L:109:MET:CE	19:L:120:LYS:HB2	2.50	0.42
19:L:275:PRO:HA	19:L:320:GLN:O	2.20	0.42
19:L:387:ASN:O	19:L:391:ILE:HG12	2.18	0.42
19:L:391:ILE:O	19:L:394:CYS:HB2	2.19	0.42
20:M:36:LEU:CD2	20:M:70:LYS:HD2	2.48	0.42
20:M:174:GLU:OE1	20:M:242:THR:HG23	2.19	0.42
20:M:179:THR:N	20:M:182:ASP:OD2	2.52	0.42
20:M:276:THR:HG22	20:M:320:ARG:O	2.20	0.42
20:M:283:LEU:O	20:M:287:GLY:N	2.52	0.42
20:M:351:LEU:HD13	20:M:385:GLU:O	2.19	0.42
20:M:386:PHE:HD2	20:M:391:LEU:HD23	1.85	0.42
21:N:37:SER:OG	26:S:249:SER:HB2	2.19	0.42
21:N:340:HIS:O	21:N:374:ILE:HA	2.19	0.42
21:N:559:TYR:O	21:N:594:VAL:HG13	2.20	0.42
22:O:207:LEU:O	22:O:210:ARG:N	2.52	0.42
22:O:217:LEU:HA	22:O:220:SER:OG	2.20	0.42
22:O:379:LYS:O	22:O:382:LYS:HB2	2.20	0.42
23:P:33:ASN:HB3	23:P:69:ARG:NH1	2.34	0.42
23:P:341:LEU:O	23:P:344:ARG:HB3	2.20	0.42
23:P:378:THR:HA	23:P:381:SER:HB3	2.01	0.42
24:Q:161:LEU:O	24:Q:164:GLU:HB3	2.19	0.42
24:Q:279:LYS:HB3	24:Q:283:ASN:HD21	1.85	0.42
25:R:154:LEU:HD11	25:R:170:VAL:HG22	2.00	0.42
25:R:154:LEU:HB2	25:R:173:THR:HG21	2.01	0.42
25:R:158:LEU:HD12	25:R:161:ALA:HB3	2.02	0.42
25:R:391:ASN:ND2	26:S:449:LEU:CD2	2.65	0.42
25:R:394:ASP:HB3	25:R:395:ASN:H	1.67	0.42
26:S:145:PHE:CB	26:S:147:TRP:HD1	2.32	0.42
26:S:250:ALA:HA	26:S:253:PHE:CD2	2.55	0.42
26:S:257:LEU:HB2	26:S:260:PRO:CD	2.48	0.42
26:S:303:ASN:O	26:S:306:SER:HB2	2.20	0.42
26:S:388:ILE:O	26:S:392:ILE:HG13	2.20	0.42
26:S:396:SER:C	26:S:398:THR:N	2.76	0.42
26:S:480:ARG:HG3	26:S:484:ASP:OD2	2.18	0.42
27:T:114:LEU:HB2	27:T:122:PHE:CE1	2.54	0.42
27:T:170:ASN:N	27:T:174:PHE:HB3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:211:LEU:O	28:U:215:ILE:HB	2.20	0.42
28:U:295:LYS:HB3	28:U:295:LYS:HE2	1.83	0.42
29:V:91:MET:O	29:V:92:MET:C	2.63	0.42
29:V:94:MET:HA	29:V:97:GLN:HB2	2.01	0.42
29:V:95:LEU:O	29:V:99:GLY:N	2.52	0.42
29:V:129:PHE:C	29:V:131:GLN:N	2.76	0.42
30:W:68:GLU:OE2	30:W:69:PHE:N	2.53	0.42
30:W:139:VAL:O	30:W:169:SER:HA	2.20	0.42
31:X:10:PHE:CD2	31:X:35:ILE:HG12	2.55	0.42
31:X:30:GLN:HB2	31:X:55:LYS:O	2.19	0.42
31:X:87:PHE:CE1	31:X:121:ILE:HG21	2.54	0.42
33:Z:237:VAL:HG13	33:Z:239:GLU:O	2.20	0.42
33:Z:335:LEU:HD23	33:Z:342:LEU:HA	2.01	0.42
33:Z:620:LEU:HD23	33:Z:620:LEU:HA	1.68	0.42
33:Z:866:VAL:HG23	33:Z:867:PHE:N	2.33	0.42
33:Z:955:VAL:HG23	33:Z:956:LEU:O	2.20	0.42
8:a:40:ILE:HA	8:a:56:GLN:OE1	2.19	0.42
8:a:123:ASN:O	8:a:126:GLN:HB3	2.20	0.42
9:b:133:SER:OG	9:b:152:PRO:HD3	2.18	0.42
9:b:196:LEU:O	9:b:200:VAL:HG23	2.19	0.42
9:b:225:THR:O	4:i:214:GLU:HA	2.19	0.42
10:c:87:LEU:O	10:c:90:THR:OG1	2.31	0.42
10:c:124:GLN:HA	11:d:127:ARG:NE	2.35	0.42
12:e:22:PHE:HB3	12:e:26:TYR:CE2	2.55	0.42
13:f:13:PHE:CE2	14:g:131:PRO:HD2	2.52	0.42
13:f:29:ILE:HD11	13:f:149:PRO:HG2	2.02	0.42
13:f:182:ILE:HG21	13:f:188:GLU:HB2	2.02	0.42
13:f:195:GLU:HG2	13:f:199:GLN:HE21	1.83	0.42
13:f:213:ILE:HD12	13:f:230:VAL:HG12	2.02	0.42
4:i:189:GLN:O	4:i:193:TRP:CD1	2.72	0.42
6:k:106:GLY:HA2	6:k:184:VAL:HG11	2.01	0.42
7:l:156:LYS:HA	7:l:159:SER:HB3	2.01	0.42
7:l:276:LYS:HZ2	7:l:285:VAL:HG12	1.84	0.42
1:1:132:GLY:O	1:1:140:ALA:N	2.28	0.42
2:2:95:HIS:O	2:2:99:LEU:HG	2.20	0.42
2:2:123:SER:HA	2:2:159:PHE:CZ	2.54	0.42
4:4:60:CYS:C	4:4:217:ARG:HH22	2.28	0.42
4:4:77:THR:HB	4:4:80:ASP:HB2	2.00	0.42
5:5:30:GLY:HA3	5:5:35:GLY:HA2	2.00	0.42
6:6:116:LEU:O	6:6:127:GLU:HG3	2.20	0.42
7:7:76:THR:CA	7:7:108:LYS:NZ	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:123:SER:HA	2:9:159:PHE:CZ	2.54	0.42
10:C:14:SER:CB	10:C:18:ARG:H	2.30	0.42
10:C:120:GLN:NE2	11:D:81:ASP:HA	2.33	0.42
10:C:166:GLY:O	10:C:169:THR:HG23	2.20	0.42
11:D:70:HIS:CG	11:D:71:VAL:HG23	2.55	0.42
11:D:97:ARG:HA	11:D:102:ASP:O	2.19	0.42
11:D:119:ARG:CZ	11:D:119:ARG:HB2	2.49	0.42
12:E:46:VAL:HG23	12:E:153:TYR:HB3	2.00	0.42
13:F:15:PRO:HA	14:G:26:TYR:CD1	2.54	0.42
13:F:137:TYR:CE1	13:F:141:GLY:HA2	2.54	0.42
14:G:126:TYR:H	14:G:129:VAL:HG21	1.84	0.42
15:H:279:LEU:HD23	15:H:279:LEU:HA	1.82	0.42
15:H:334:LEU:HA	15:H:337:ILE:HD12	2.02	0.42
16:I:198:MET:HA	16:I:274:ILE:HG22	2.02	0.42
16:I:337:LEU:HD11	16:I:341:ASP:CG	2.44	0.42
18:K:48:TYR:OH	21:N:140:MET:HE3	2.19	0.42
18:K:157:SER:O	18:K:244:HIS:CD2	2.73	0.42
18:K:244:HIS:NE2	18:K:246:TYR:O	2.53	0.42
18:K:349:ARG:HH12	18:K:378:LEU:HB2	1.84	0.42
18:K:372:ILE:HD12	18:K:372:ILE:HA	1.92	0.42
19:L:88:TYR:O	19:L:92:GLU:N	2.34	0.42
19:L:232:ALA:O	19:L:236:ALA:N	2.21	0.42
19:L:268:ALA:O	19:L:272:GLU:N	2.42	0.42
21:N:331:ALA:HB2	21:N:697:PHE:CE2	2.54	0.42
21:N:428:VAL:HA	21:N:431:SER:HB3	2.02	0.42
21:N:602:VAL:HA	21:N:605:ILE:HD12	2.01	0.42
21:N:606:VAL:O	21:N:609:LEU:N	2.53	0.42
22:O:272:VAL:HG13	22:O:273:GLN:H	1.85	0.42
22:O:306:ARG:O	22:O:350:ILE:HD12	2.19	0.42
23:P:182:GLU:O	23:P:186:LEU:N	2.37	0.42
24:Q:34:ASP:HB3	24:Q:50:ARG:HG2	2.02	0.42
24:Q:39:SER:CB	24:Q:87:GLN:HB3	2.49	0.42
24:Q:178:HIS:CD2	24:Q:200:ALA:HB3	2.54	0.42
24:Q:425:GLN:O	24:Q:428:GLU:HB3	2.19	0.42
25:R:31:PHE:CZ	25:R:320:LYS:HA	2.55	0.42
25:R:31:PHE:CE2	25:R:35:GLN:HG3	2.55	0.42
25:R:31:PHE:CD1	25:R:320:LYS:HA	2.55	0.42
25:R:147:LYS:HG3	25:R:147:LYS:O	2.19	0.42
25:R:335:ARG:HH22	25:R:374:ASN:CG	2.19	0.42
26:S:146:LEU:HD23	26:S:146:LEU:HA	1.93	0.42
26:S:344:PRO:O	26:S:348:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:152:LEU:HD23	27:T:157:TYR:CD2	2.54	0.42
29:V:65:VAL:HG13	29:V:67:ASP:O	2.19	0.42
29:V:202:ASP:CG	29:V:203:TYR:N	2.78	0.42
30:W:172:LEU:HB3	30:W:190:ILE:CD1	2.50	0.42
33:Z:138:ARG:HG2	33:Z:157:LEU:C	2.45	0.42
33:Z:284:LEU:HA	33:Z:284:LEU:HD23	1.68	0.42
33:Z:513:ALA:HA	33:Z:523:ALA:HB1	2.00	0.42
33:Z:530:LEU:O	33:Z:573:LEU:HD21	2.18	0.42
33:Z:557:GLU:HG3	33:Z:562:TRP:HB3	2.02	0.42
33:Z:877:THR:O	33:Z:880:SER:HB3	2.19	0.42
10:c:50:ARG:CZ	10:c:59:GLN:HG3	2.50	0.42
11:d:238:GLN:O	11:d:242:GLU:N	2.42	0.42
4:i:225:ARG:HG2	4:i:226:GLU:O	2.19	0.42
5:j:11:ILE:CG2	5:j:142:ALA:H	2.33	0.42
5:j:18:LYS:HB2	5:j:157:ASN:O	2.18	0.42
6:k:37:GLN:HE21	6:k:39:SER:C	2.28	0.42
6:k:157:GLY:O	6:k:161:LEU:HG	2.20	0.42
2:2:55:ILE:O	2:2:230:LEU:HG	2.19	0.42
2:2:99:LEU:O	2:2:102:ASP:HB2	2.20	0.42
3:3:167:LYS:O	3:3:171:VAL:HG23	2.19	0.42
6:6:157:GLY:O	6:6:161:LEU:HG	2.20	0.42
1:8:153:GLU:OE1	1:8:156:ARG:NE	2.32	0.42
1:8:177:ASN:HB3	5:j:172:LEU:HD23	2.02	0.42
1:8:214:HIS:CE1	4:i:53:PRO:HB2	2.55	0.42
11:D:37:LYS:HG2	11:D:160:SER:O	2.20	0.42
12:E:128:SER:H	13:F:125:GLY:CA	2.33	0.42
12:E:222:ILE:HA	12:E:228:PHE:HA	2.01	0.42
13:F:49:LEU:HD11	13:F:210:ASN:HB3	2.01	0.42
14:G:48:PHE:HB2	14:G:217:SER:OG	2.20	0.42
14:G:109:ILE:HG13	14:G:140:GLY:O	2.20	0.42
15:H:159:LEU:H	20:M:163:PHE:HE2	1.67	0.42
15:H:206:VAL:O	15:H:265:ASN:HB3	2.19	0.42
15:H:206:VAL:HG21	15:H:258:LEU:HB3	2.01	0.42
15:H:216:ASP:C	15:H:220:LYS:NZ	2.78	0.42
15:H:331:ARG:O	15:H:334:LEU:N	2.53	0.42
16:I:236:GLU:O	16:I:238:MET:N	2.53	0.42
17:J:24:GLU:N	17:J:26:LYS:H	2.18	0.42
17:J:111:GLN:HA	17:J:128:ASN:ND2	2.35	0.42
17:J:235:VAL:O	17:J:239:GLU:HG3	2.20	0.42
17:J:281:GLY:O	17:J:284:THR:HG23	2.20	0.42
18:K:253:MET:HA	18:K:256:ASP:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:257:GLY:C	19:L:258:GLU:CG	2.86	0.42
19:L:309:LEU:HD12	19:L:313:ASP:HB2	2.01	0.42
20:M:30:LEU:HA	20:M:33:ARG:HD2	2.02	0.42
20:M:264:ARG:HA	20:M:311:GLN:NE2	2.35	0.42
20:M:401:ILE:O	20:M:405:ASN:N	2.49	0.42
21:N:93:GLU:O	21:N:98:VAL:HG11	2.19	0.42
21:N:379:LEU:HA	21:N:379:LEU:HD23	1.84	0.42
21:N:450:ILE:HG23	21:N:451:GLY:N	2.27	0.42
21:N:641:LEU:O	21:N:645:THR:HG23	2.20	0.42
21:N:759:ILE:O	21:N:761:ILE:HG12	2.19	0.42
21:N:773:MET:HG3	21:N:884:PHE:HD1	1.83	0.42
21:N:890:PHE:HB3	21:N:906:ARG:O	2.19	0.42
22:O:207:LEU:HA	22:O:210:ARG:CB	2.45	0.42
23:P:110:LEU:HA	23:P:113:ASN:ND2	2.34	0.42
23:P:213:TYR:HD2	23:P:216:LEU:HD12	1.85	0.42
23:P:220:TYR:CE2	23:P:224:LEU:HD22	2.54	0.42
23:P:427:GLU:HA	29:V:234:GLU:HG2	2.02	0.42
24:Q:136:SER:O	24:Q:139:ILE:HB	2.19	0.42
24:Q:314:PHE:CZ	24:Q:339:TYR:HB2	2.54	0.42
24:Q:395:GLY:N	24:Q:396:TRP:HD1	2.16	0.42
25:R:95:ASP:OD1	25:R:98:LEU:N	2.40	0.42
26:S:330:LEU:CD2	26:S:333:PHE:HD2	2.32	0.42
27:T:94:HIS:CE1	27:T:97:SER:O	2.73	0.42
28:U:54:LEU:O	28:U:56:PHE:HB2	2.20	0.42
28:U:130:VAL:HG21	28:U:198:LYS:HZ1	1.84	0.42
28:U:294:ASN:ND2	28:U:298:ASN:HD21	2.17	0.42
29:V:111:HIS:N	29:V:141:VAL:O	2.26	0.42
29:V:206:THR:CG2	29:V:209:GLU:H	2.33	0.42
30:W:2:VAL:O	30:W:44:ASN:HB2	2.19	0.42
30:W:30:ILE:O	30:W:33:VAL:HB	2.20	0.42
31:X:47:ASP:HB3	31:X:65:SER:OG	2.20	0.42
33:Z:212:LEU:HB2	33:Z:236:PHE:CZ	2.55	0.42
33:Z:241:THR:CG2	33:Z:242:PHE:N	2.81	0.42
33:Z:295:ARG:HA	33:Z:298:PHE:HB2	2.01	0.42
33:Z:566:LEU:O	33:Z:569:ALA:HB3	2.20	0.42
33:Z:595:MET:O	33:Z:599:ILE:HD12	2.20	0.42
33:Z:821:GLY:O	33:Z:861:THR:HA	2.20	0.42
8:a:78:THR:O	8:a:233:PHE:HB2	2.20	0.42
9:b:181:ASP:OD1	9:b:181:ASP:N	2.51	0.42
9:b:243:ILE:HG22	9:b:247:LEU:HD11	2.02	0.42
10:c:14:SER:HB2	10:c:20:TYR:OH	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:53:THR:OG1	10:c:210:ARG:NH1	2.53	0.42
10:c:73:ILE:C	10:c:227:GLN:HE22	2.28	0.42
12:e:130:GLU:HG2	12:e:131:GLU:N	2.35	0.42
14:g:48:PHE:HB2	14:g:217:SER:OG	2.20	0.42
14:g:146:ALA:O	14:g:147:HIS:CG	2.73	0.42
14:g:183:HIS:HB3	14:g:186:GLY:O	2.20	0.42
3:h:147:GLY:O	3:h:150:SER:OG	2.23	0.42
4:i:91:ASN:CB	4:i:111:MET:HE1	2.50	0.42
5:j:118:LYS:HG2	5:j:119:PRO:O	2.19	0.42
6:k:158:LEU:O	6:k:161:LEU:HB2	2.20	0.42
7:l:197:LEU:HA	7:l:197:LEU:HD23	1.81	0.42
1:1:57:ARG:NH1	1:1:219:ASP:OD1	2.51	0.42
2:2:37:PRO:O	2:2:38:ILE:HD13	2.19	0.42
2:2:54:ILE:HG23	2:2:230:LEU:HD21	2.02	0.42
2:2:219:TYR:CE1	3:3:48:ARG:CZ	3.03	0.42
3:3:33:LEU:O	3:3:195:VAL:N	2.42	0.42
5:5:24:ALA:C	5:5:43:ILE:HD11	2.45	0.42
6:6:37:GLN:HE21	6:6:39:SER:C	2.28	0.42
2:9:54:ILE:HG23	2:9:230:LEU:HD21	2.02	0.42
10:C:122:TYR:HE2	10:C:131:PHE:CE2	2.38	0.42
10:C:173:GLN:O	10:C:177:GLN:N	2.34	0.42
10:C:174:THR:O	10:C:178:MET:N	2.46	0.42
11:D:193:LYS:NZ	11:D:239:GLU:OE2	2.53	0.42
12:E:118:ASP:HB3	12:E:122:ARG:HH21	1.84	0.42
13:F:67:ASP:HB3	13:F:70:MET:HB3	2.01	0.42
14:G:88:LEU:HD11	14:G:116:LEU:HD22	2.02	0.42
15:H:285:GLY:O	15:H:288:ALA:HB3	2.20	0.42
15:H:389:PHE:CE1	15:H:419:LEU:HD22	2.55	0.42
15:H:390:ARG:CZ	15:H:390:ARG:HB2	2.48	0.42
17:J:112:ARG:HD3	17:J:112:ARG:HA	1.73	0.42
17:J:347:ALA:HA	17:J:350:MET:HB2	2.01	0.42
18:K:123:LEU:HD12	18:K:126:LEU:HG	2.00	0.42
18:K:280:LYS:HB2	18:K:293:GLN:CG	2.50	0.42
18:K:383:ILE:O	18:K:387:MET:HG2	2.19	0.42
19:L:193:LEU:HB3	19:L:197:ILE:CD1	2.48	0.42
21:N:176:GLN:NE2	21:N:176:GLN:CA	2.77	0.42
21:N:492:THR:HA	21:N:528:ARG:CD	2.46	0.42
21:N:738:GLN:HG2	21:N:741:TYR:CE1	2.55	0.42
22:O:99:LEU:HD12	22:O:132:GLU:HB3	2.02	0.42
22:O:130:ASP:HA	22:O:153:LEU:HD11	2.01	0.42
22:O:184:ASP:O	22:O:188:PHE:N	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:299:THR:O	22:O:301:PHE:N	2.52	0.42
22:O:312:ASP:N	22:O:315:LYS:HZ1	2.18	0.42
22:O:330:ARG:HB2	22:O:333:SER:CB	2.49	0.42
22:O:340:SER:H	22:O:349:THR:C	2.27	0.42
23:P:221:TYR:HA	23:P:224:LEU:HB3	2.02	0.42
23:P:411:LEU:O	23:P:415:TRP:HB3	2.20	0.42
24:Q:185:TYR:CE2	24:Q:193:LYS:HB3	2.55	0.42
24:Q:212:THR:HB	24:Q:249:LEU:HD21	2.01	0.42
24:Q:274:LEU:O	24:Q:278:VAL:HG23	2.20	0.42
24:Q:351:ILE:CG2	24:Q:352:GLU:HB3	2.49	0.42
24:Q:412:ALA:CA	29:V:258:GLU:OE1	2.62	0.42
25:R:113:LEU:HD22	25:R:137:LEU:HA	2.02	0.42
26:S:138:MET:SD	26:S:178:LEU:HB3	2.59	0.42
26:S:279:ILE:O	26:S:283:GLN:HG2	2.20	0.42
26:S:467:PHE:HA	26:S:470:GLN:HB2	2.02	0.42
26:S:482:PRO:HB3	28:U:299:LYS:HD2	2.02	0.42
27:T:49:ASP:CB	27:T:53:ASN:HB2	2.47	0.42
27:T:109:TYR:HA	27:T:112:ASN:HB3	2.01	0.42
27:T:129:LEU:CD2	27:T:132:HIS:HA	2.50	0.42
27:T:187:ASP:O	27:T:191:LYS:NZ	2.39	0.42
27:T:247:ASP:C	27:T:249:MET:H	2.27	0.42
27:T:251:HIS:CE1	27:T:253:GLU:CD	2.98	0.42
28:U:9:THR:HG23	28:U:162:GLU:HG3	2.00	0.42
28:U:10:ILE:HD11	28:U:159:CYS:HB2	2.02	0.42
28:U:166:ALA:HB1	29:V:38:LEU:HB3	2.01	0.42
29:V:71:MET:CE	29:V:84:ASP:H	2.32	0.42
29:V:94:MET:O	29:V:98:THR:N	2.44	0.42
30:W:8:LEU:N	30:W:50:GLY:O	2.33	0.42
30:W:21:PHE:CE1	30:W:28:ALA:HB1	2.55	0.42
30:W:46:GLU:HG2	30:W:106:GLN:HE21	1.84	0.42
33:Z:344:LYS:HE3	33:Z:344:LYS:HB3	1.78	0.42
33:Z:435:GLN:O	33:Z:438:LYS:HB2	2.20	0.42
33:Z:479:THR:O	33:Z:480:ASN:HB2	2.20	0.42
33:Z:824:ASN:H	33:Z:831:LEU:HD12	1.85	0.42
8:a:61:ASP:OD1	8:a:63:LEU:HG	2.20	0.42
9:b:13:SER:H	9:b:17:LYS:H	1.67	0.42
10:c:4:ARG:NH2	13:f:9:ASP:OD1	2.51	0.42
11:d:12:SER:H	11:d:16:HIS:H	1.67	0.42
13:f:80:ASP:O	13:f:83:VAL:HB	2.19	0.42
13:f:137:TYR:CE1	13:f:141:GLY:HA2	2.54	0.42
14:g:119:TYR:CZ	14:g:123:HIS:HE1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:78:VAL:HG21	3:h:101:PHE:CD1	2.55	0.42
4:i:155:SER:HB3	4:i:167:LEU:HD11	2.01	0.42
1:1:221:LEU:HD21	1:1:223:ILE:HD11	2.02	0.42
2:2:46:SER:OG	2:2:160:LEU:HD11	2.20	0.42
3:3:67:SER:HB3	3:3:70:ASP:CG	2.45	0.42
3:3:149:GLY:HA2	3:3:152:PHE:CE2	2.55	0.42
4:4:36:LYS:HE3	4:4:36:LYS:HB2	1.81	0.42
6:6:51:GLY:CA	7:7:166:LYS:HZ2	2.32	0.42
2:9:48:LYS:CB	2:9:53:VAL:HG12	2.50	0.42
2:9:132:VAL:O	2:9:136:ARG:N	2.32	0.42
2:9:234:ASP:HB3	2:9:237:THR:OG1	2.20	0.42
8:A:245:LEU:HA	8:A:248:ILE:HG12	2.02	0.42
9:B:180:ASN:H	9:B:183:LEU:HD11	1.85	0.42
9:B:240:SER:HA	9:B:243:ILE:HD12	2.02	0.42
11:D:12:SER:O	11:D:15:GLY:N	2.39	0.42
12:E:52:LYS:HB2	12:E:216:ASN:C	2.45	0.42
13:F:12:THR:HA	14:G:23:GLN:NE2	2.34	0.42
13:F:104:ALA:O	13:F:108:ALA:N	2.41	0.42
14:G:5:GLY:C	14:G:8:TYR:HE1	2.27	0.42
14:G:171:SER:O	14:G:175:GLU:HG2	2.19	0.42
14:G:183:HIS:HB3	14:G:186:GLY:O	2.20	0.42
16:I:174:VAL:HG23	16:I:176:LEU:HD21	2.00	0.42
16:I:285:GLY:HA2	16:I:331:ARG:NH1	2.35	0.42
17:J:182:PRO:HA	17:J:311:ASP:CG	2.45	0.42
17:J:364:GLU:O	17:J:368:TYR:N	2.30	0.42
18:K:123:LEU:HB3	18:K:125:THR:N	2.34	0.42
18:K:371:LEU:O	18:K:375:ASN:N	2.53	0.42
19:L:332:THR:HA	20:M:292:ASP:C	2.45	0.42
19:L:336:ALA:O	19:L:342:ARG:HD3	2.19	0.42
19:L:354:GLU:OE2	19:L:380:VAL:HG12	2.20	0.42
19:L:398:ALA:O	19:L:402:ALA:N	2.40	0.42
21:N:91:ILE:HG13	21:N:92:ASP:N	2.35	0.42
21:N:338:PHE:C	21:N:708:ALA:HA	2.44	0.42
21:N:345:ASP:H	21:N:374:ILE:CG2	2.33	0.42
21:N:382:GLY:HA2	21:N:385:VAL:HB	2.02	0.42
21:N:441:VAL:HA	21:N:444:HIS:HB3	2.01	0.42
21:N:775:CYS:SG	21:N:883:SER:OG	2.45	0.42
22:O:290:LYS:HA	22:O:293:LEU:HB2	2.01	0.42
23:P:112:LEU:HD22	23:P:115:ARG:CZ	2.50	0.42
23:P:311:TRP:HH2	23:P:341:LEU:HB2	1.83	0.42
23:P:403:GLU:CG	23:P:404:LYS:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:439:MET:HG2	28:U:154:PHE:CZ	2.55	0.42
24:Q:359:ILE:HA	24:Q:362:ILE:HB	2.01	0.42
24:Q:405:GLN:HG2	25:R:395:ASN:CA	2.33	0.42
25:R:186:TYR:CG	25:R:187:VAL:N	2.88	0.42
25:R:212:THR:O	25:R:216:ILE:HG13	2.20	0.42
25:R:333:MET:SD	25:R:336:LYS:HG2	2.59	0.42
25:R:346:LYS:CB	25:R:390:THR:OG1	2.68	0.42
25:R:380:VAL:O	25:R:388:VAL:HA	2.20	0.42
25:R:400:TYR:CD1	25:R:403:LEU:HD22	2.55	0.42
26:S:15:VAL:HG12	26:S:27:GLU:HA	2.02	0.42
26:S:180:ASN:ND2	26:S:183:LEU:HG	2.35	0.42
26:S:241:PHE:HE2	26:S:253:PHE:CE2	2.38	0.42
26:S:283:GLN:HA	27:T:120:THR:HG21	2.02	0.42
26:S:416:GLU:O	26:S:418:THR:N	2.50	0.42
28:U:8:VAL:HB	28:U:159:CYS:SG	2.60	0.42
28:U:170:GLY:O	28:U:173:HIS:HB2	2.20	0.42
29:V:127:LYS:O	29:V:131:GLN:HG2	2.20	0.42
29:V:238:LEU:N	29:V:241:THR:HG1	2.06	0.42
30:W:14:GLU:HA	30:W:17:ARG:CD	2.50	0.42
33:Z:151:HIS:ND1	33:Z:152:GLU:N	2.68	0.42
33:Z:233:LEU:O	33:Z:233:LEU:HD23	2.20	0.42
33:Z:239:GLU:HG3	33:Z:240:ASN:CG	2.45	0.42
33:Z:358:TYR:O	33:Z:360:SER:N	2.53	0.42
33:Z:392:LEU:HD13	33:Z:424:SER:HB3	2.01	0.42
33:Z:758:LEU:C	33:Z:758:LEU:CD2	2.86	0.42
33:Z:797:THR:OG1	33:Z:833:GLN:HG2	2.19	0.42
33:Z:913:ILE:CG1	33:Z:963:ALA:HB3	2.49	0.42
33:Z:926:ASN:O	33:Z:983:LEU:HD13	2.20	0.42
8:a:154:ILE:CG2	8:a:166:TYR:HB2	2.50	0.42
9:b:5:TYR:HE1	10:c:3:SER:HA	1.85	0.42
9:b:67:LEU:N	9:b:71:ILE:O	2.53	0.42
9:b:240:SER:HA	9:b:243:ILE:HD12	2.02	0.42
11:d:67:ILE:HG21	11:d:109:LEU:HD11	2.01	0.42
13:f:81:ALA:O	13:f:85:SER:N	2.32	0.42
14:g:126:TYR:O	14:g:129:VAL:HG23	2.20	0.42
14:g:187:LEU:HD12	14:g:187:LEU:HA	1.86	0.42
3:h:126:LYS:HG2	3:h:127:GLY:H	1.85	0.42
4:i:132:VAL:HB	4:i:209:ILE:HA	2.01	0.42
4:i:156:LEU:HD23	4:i:156:LEU:HA	1.88	0.42
4:i:243:LYS:HB3	5:j:199:TYR:CD2	2.55	0.42
7:l:176:ILE:O	7:l:187:ILE:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:106:VAL:HA	4:4:109:LEU:HB3	2.02	0.41
5:5:85:GLU:OE1	5:5:85:GLU:N	2.34	0.41
5:5:203:ARG:HB3	5:5:205:ASP:OD1	2.20	0.41
7:7:285:VAL:HA	5:j:38:ASN:ND2	2.35	0.41
1:8:35:ALA:HB1	1:8:139:GLY:O	2.20	0.41
1:8:80:GLY:HA2	1:8:83:LEU:HB3	2.02	0.41
2:9:214:MET:HE2	2:9:228:PHE:CG	2.54	0.41
8:A:19:PHE:N	9:B:20:GLN:OE1	2.52	0.41
8:A:63:LEU:HD21	14:G:177:GLU:HA	2.01	0.41
8:A:133:TYR:HB3	9:B:5:TYR:CD2	2.55	0.41
9:B:13:SER:H	9:B:17:LYS:H	1.66	0.41
9:B:35:LEU:HD11	9:B:46:ALA:HB3	2.01	0.41
10:C:196:THR:O	10:C:200:THR:OG1	2.32	0.41
12:E:151:ASP:HB3	12:E:154:GLN:CD	2.44	0.41
13:F:105:VAL:HG12	13:F:145:LEU:HD13	2.02	0.41
13:F:121:GLN:HG3	14:G:130:ARG:HB3	2.02	0.41
13:F:137:TYR:CE1	13:F:218:LYS:HA	2.55	0.41
14:G:70:VAL:O	14:G:74:ILE:HB	2.19	0.41
14:G:146:ALA:O	14:G:147:HIS:CG	2.73	0.41
16:I:217:GLN:O	16:I:220:GLU:HB2	2.19	0.41
16:I:244:LYS:HE2	16:I:370:ARG:HB2	2.01	0.41
16:I:281:GLN:CD	17:J:227:SER:OG	2.63	0.41
16:I:320:ASP:OD1	16:I:321:SER:N	2.53	0.41
18:K:170:THR:HG22	18:K:171:TYR:O	2.20	0.41
18:K:280:LYS:HB2	18:K:293:GLN:HG2	2.00	0.41
19:L:195:GLU:O	19:L:200:PRO:HD3	2.19	0.41
19:L:372:GLY:HA2	19:L:376:PHE:HZ	1.85	0.41
19:L:407:ARG:HE	19:L:411:ASN:HD22	1.68	0.41
19:L:408:ASP:OD1	19:L:409:HIS:N	2.46	0.41
20:M:5:GLU:O	20:M:9:ALA:N	2.50	0.41
21:N:227:LYS:HG3	21:N:724:THR:CG2	2.49	0.41
21:N:272:ILE:O	21:N:276:GLU:HG2	2.20	0.41
21:N:471:TYR:HD1	21:N:504:TYR:HE1	1.68	0.41
21:N:761:ILE:HG23	21:N:766:GLN:HG2	2.02	0.41
21:N:772:GLN:HG2	21:N:870:ASN:N	2.34	0.41
21:N:919:THR:OG1	21:N:920:VAL:N	2.52	0.41
22:O:99:LEU:HB2	22:O:135:ARG:CZ	2.25	0.41
23:P:59:LEU:HD12	23:P:62:ILE:HB	2.00	0.41
23:P:73:ASP:O	23:P:76:ASN:HB3	2.20	0.41
23:P:75:LEU:HA	23:P:78:GLN:OE1	2.19	0.41
23:P:170:SER:HB3	23:P:173:MET:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:210:ASN:HB3	23:P:213:TYR:CD2	2.55	0.41
23:P:319:GLU:HA	23:P:323:ASN:H	1.84	0.41
23:P:402:PHE:O	23:P:402:PHE:CG	2.73	0.41
24:Q:43:GLY:HA2	24:Q:84:TYR:OH	2.20	0.41
24:Q:124:PHE:HA	24:Q:127:ARG:CG	2.44	0.41
24:Q:142:ALA:HB2	24:Q:157:LEU:HD23	2.02	0.41
24:Q:231:ASP:HB3	24:Q:234:THR:HG23	2.01	0.41
25:R:36:SER:HA	25:R:42:GLN:HG2	2.02	0.41
25:R:113:LEU:HA	25:R:116:LYS:HB3	2.02	0.41
25:R:178:GLY:O	25:R:183:ASP:N	2.47	0.41
25:R:188:LYS:O	25:R:191:LEU:HB3	2.20	0.41
25:R:288:SER:HA	25:R:292:LEU:H	1.84	0.41
25:R:309:LEU:HD23	25:R:312:TYR:CB	2.50	0.41
26:S:3:SER:OG	26:S:4:THR:N	2.52	0.41
26:S:17:ASP:HA	26:S:20:HIS:CD2	2.55	0.41
26:S:235:ASN:HB3	26:S:275:TYR:CE2	2.55	0.41
27:T:55:LEU:HD11	27:T:88:TYR:CZ	2.55	0.41
27:T:126:LEU:HD12	27:T:129:LEU:HD23	2.02	0.41
28:U:94:HIS:CE1	28:U:122:ILE:HG12	2.55	0.41
28:U:232:VAL:O	28:U:235:LEU:HB2	2.20	0.41
28:U:290:ASP:O	28:U:291:LEU:C	2.63	0.41
29:V:264:GLU:HG2	29:V:276:PRO:C	2.45	0.41
30:W:113:PHE:HE1	30:W:181:LEU:CD2	2.32	0.41
33:Z:115:LEU:HA	33:Z:115:LEU:HD12	1.87	0.41
33:Z:135:LEU:HD12	33:Z:138:ARG:HB3	2.01	0.41
33:Z:357:ILE:CD1	33:Z:959:HIS:CD2	2.86	0.41
33:Z:834:LEU:HD23	33:Z:837:TYR:CD2	2.30	0.41
33:Z:883:THR:HG22	33:Z:903:MET:SD	2.60	0.41
9:b:2:THR:O	9:b:3:ASP:C	2.62	0.41
9:b:75:TYR:CD1	9:b:82:TYR:CG	3.08	0.41
11:d:185:PRO:O	11:d:191:CYS:HB2	2.20	0.41
12:e:88:MET:O	12:e:92:ALA:N	2.28	0.41
14:g:13:SER:H	14:g:127:ASN:HA	1.85	0.41
14:g:79:SER:OG	14:g:165:THR:HG23	2.19	0.41
14:g:103:TYR:C	14:g:105:THR:N	2.78	0.41
3:h:192:ILE:HB	3:h:207:PHE:HB2	2.02	0.41
4:i:97:LEU:O	4:i:100:SER:N	2.52	0.41
5:j:25:CYS:SG	5:j:43:ILE:HG13	2.60	0.41
7:l:253:TYR:HA	7:l:261:ILE:O	2.20	0.41
1:l:20:GLN:HG2	1:l:21:PHE:O	2.19	0.41
3:3:205:LEU:HD23	3:3:205:LEU:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:67:SER:O	4:4:68:PRO:C	2.61	0.41
4:4:189:GLN:O	4:4:193:TRP:CD1	2.72	0.41
5:5:193:ASP:OD1	5:5:194:GLU:HG2	2.19	0.41
6:6:36:ARG:HB3	6:6:61:GLN:OE1	2.21	0.41
7:7:133:TRP:O	7:7:136:SER:HB2	2.21	0.41
7:7:156:LYS:HA	7:7:159:SER:HB3	2.01	0.41
7:7:188:TYR:CD1	7:7:198:LYS:HB2	2.55	0.41
7:7:256:THR:C	7:7:259:GLY:H	2.27	0.41
1:8:239:LYS:HE3	4:i:223:ASN:HB3	2.02	0.41
2:9:99:LEU:O	2:9:102:ASP:HB2	2.20	0.41
9:B:21:ILE:O	9:B:25:LEU:HG	2.20	0.41
9:B:75:TYR:CD1	9:B:82:TYR:CG	3.08	0.41
9:B:123:GLN:HB2	10:C:129:ARG:NH2	2.36	0.41
11:D:185:PRO:O	11:D:191:CYS:HB2	2.20	0.41
11:D:216:LYS:HB2	11:D:220:ASP:CG	2.46	0.41
12:E:148:ASP:O	12:E:152:GLY:N	2.53	0.41
13:F:63:ILE:HD12	13:F:212:SER:OG	2.20	0.41
14:G:220:SER:H	14:G:224:THR:HG1	1.61	0.41
14:G:239:ALA:HA	14:G:242:PHE:HB3	2.02	0.41
15:H:171:GLY:HA3	15:H:173:ARG:HD2	2.02	0.41
15:H:182:ASN:CG	15:H:183:ILE:H	2.28	0.41
15:H:196:THR:O	15:H:198:MET:O	2.39	0.41
16:I:242:PRO:HG2	16:I:346:ARG:CA	2.45	0.41
17:J:44:LEU:HA	17:J:47:GLN:HB2	2.01	0.41
17:J:171:PRO:HA	17:J:181:GLN:OE1	2.20	0.41
17:J:354:SER:O	17:J:358:VAL:HG23	2.19	0.41
18:K:157:SER:C	18:K:244:HIS:CE1	2.98	0.41
18:K:219:LYS:HD2	18:K:340:PHE:HB2	2.01	0.41
18:K:241:GLU:CD	19:L:264:ARG:HH12	2.28	0.41
18:K:244:HIS:HE1	18:K:250:GLY:CA	2.30	0.41
18:K:400:TYR:HE2	23:P:130:ILE:C	2.28	0.41
19:L:399:GLY:HA2	19:L:402:ALA:HB3	2.01	0.41
20:M:175:LYS:HG2	20:M:241:ALA:O	2.19	0.41
21:N:25:LEU:O	21:N:29:ASN:N	2.35	0.41
21:N:123:PHE:CE2	21:N:124:TYR:HB3	2.55	0.41
21:N:246:LYS:HE2	21:N:282:TYR:HA	2.03	0.41
21:N:482:ALA:HB1	21:N:516:GLY:C	2.44	0.41
21:N:600:THR:O	21:N:603:PRO:HD2	2.20	0.41
22:O:367:LYS:HE3	28:U:201:GLN:HA	2.02	0.41
22:O:371:VAL:HA	22:O:374:ASN:CB	2.50	0.41
23:P:267:PHE:HE1	23:P:329:PHE:CD1	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:323:ASN:ND2	23:P:334:ASN:HD22	2.18	0.41
23:P:363:LEU:C	23:P:367:GLU:HG3	2.45	0.41
24:Q:28:LEU:HG	24:Q:32:ASP:OD2	2.20	0.41
24:Q:146:TYR:HA	24:Q:151:TYR:CE1	2.55	0.41
24:Q:150:GLN:HB3	24:Q:153:ASP:HB2	2.02	0.41
24:Q:165:PHE:HB3	24:Q:174:LEU:HB2	2.02	0.41
25:R:91:TRP:C	25:R:93:LYS:H	2.29	0.41
27:T:228:ILE:HG22	27:T:229:VAL:O	2.21	0.41
27:T:253:GLU:CG	27:T:254:ASP:H	2.26	0.41
27:T:254:ASP:HB2	27:T:258:ASN:CG	2.46	0.41
27:T:257:THR:O	27:T:260:ILE:HB	2.20	0.41
28:U:57:GLU:O	28:U:67:PHE:N	2.45	0.41
29:V:251:TYR:O	29:V:255:ILE:HG12	2.19	0.41
30:W:2:VAL:HG12	30:W:47:ASN:ND2	2.36	0.41
32:Y:71:ASP:O	32:Y:74:THR:HB	2.20	0.41
33:Z:392:LEU:HD11	33:Z:427:GLN:OE1	2.20	0.41
33:Z:410:THR:HG21	33:Z:418:ALA:HB2	2.02	0.41
9:b:213:ILE:HG23	9:b:238:LEU:HD11	2.02	0.41
9:b:224:TYR:CD2	4:i:68:PRO:HA	2.55	0.41
10:c:141:ASP:CG	10:c:144:TYR:H	2.28	0.41
11:d:37:LYS:HG2	11:d:160:SER:O	2.20	0.41
11:d:56:ASP:CG	11:d:58:ARG:HE	2.28	0.41
11:d:72:VAL:HG11	11:d:221:ILE:HG21	2.03	0.41
11:d:148:TYR:HD1	11:d:157:SER:O	2.04	0.41
14:g:88:LEU:HD11	14:g:116:LEU:HD22	2.02	0.41
3:h:145:ILE:HD11	3:h:154:TYR:CE1	2.54	0.41
5:j:4:PRO:HA	5:j:7:ILE:HD12	2.02	0.41
5:j:24:ALA:C	5:j:43:ILE:HD11	2.45	0.41
7:l:187:ILE:HB	7:l:199:GLY:O	2.20	0.41
7:l:256:THR:C	7:l:259:GLY:H	2.27	0.41
1:1:42:LEU:HD23	1:1:43:ALA:N	2.34	0.41
1:1:179:TYR:N	4:4:238:THR:O	2.52	0.41
1:1:180:GLU:HB2	1:1:183:THR:HG21	2.01	0.41
2:2:103:LEU:HD11	2:2:128:TYR:CE2	2.55	0.41
2:2:163:VAL:HG23	2:2:169:THR:HG22	2.02	0.41
4:4:236:ARG:NE	5:5:161:GLU:HB2	2.35	0.41
5:5:63:LEU:HD21	5:5:103:TYR:CZ	2.55	0.41
6:6:106:GLY:HA2	6:6:184:VAL:HG11	2.02	0.41
7:7:112:ILE:HB	7:7:116:LEU:HB2	2.01	0.41
7:7:128:GLN:HG2	1:8:113:GLN:HE22	1.85	0.41
1:8:31:ILE:HG23	1:8:74:ASN:ND2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:49:ILE:HA	1:8:55:ASN:N	2.24	0.41
1:8:57:ARG:HH21	4:i:194:ASN:HD22	1.67	0.41
1:8:185:GLY:HA3	4:i:240:ALA:HB2	2.02	0.41
8:A:154:ILE:CG2	8:A:166:TYR:HB2	2.50	0.41
8:A:166:TYR:N	9:B:57:MET:HE2	2.36	0.41
9:B:38:LYS:HB3	9:B:160:LYS:O	2.20	0.41
9:B:41:ASN:N	9:B:41:ASN:OD1	2.54	0.41
10:C:47:ALA:HB2	10:C:213:PHE:HD1	1.84	0.41
12:E:187:TRP:HA	12:E:191:LEU:CD1	2.47	0.41
13:F:52:ASN:HB2	13:F:57:SER:OG	2.20	0.41
13:F:55:GLU:H	13:F:55:GLU:CD	2.26	0.41
14:G:9:ASP:HB3	14:G:22:PHE:HB2	2.02	0.41
14:G:36:THR:HA	14:G:165:THR:O	2.20	0.41
14:G:78:TYR:CE2	14:G:82:ILE:HA	2.54	0.41
14:G:119:TYR:CZ	14:G:123:HIS:CE1	3.09	0.41
15:H:254:THR:HG22	16:I:367:ARG:NE	2.34	0.41
17:J:250:ILE:HD12	17:J:260:GLY:HA2	2.02	0.41
17:J:319:PRO:O	17:J:320:SER:HB3	2.19	0.41
17:J:335:MET:SD	17:J:362:CYS:HB3	2.60	0.41
17:J:339:ARG:HB3	17:J:340:GLY:H	1.57	0.41
17:J:339:ARG:NH2	25:R:236:ALA:HB1	2.36	0.41
18:K:249:GLU:O	18:K:250:GLY:C	2.63	0.41
19:L:218:VAL:O	19:L:325:MET:N	2.40	0.41
19:L:223:PRO:O	19:L:226:THR:HG23	2.19	0.41
19:L:369:LYS:HG2	19:L:409:HIS:HA	2.02	0.41
19:L:387:ASN:N	19:L:390:ASP:HB2	2.35	0.41
20:M:189:GLN:HG2	20:M:348:GLU:O	2.20	0.41
20:M:329:ARG:CG	20:M:330:VAL:N	2.80	0.41
21:N:25:LEU:HD12	21:N:55:PHE:CE2	2.55	0.41
21:N:197:VAL:HG11	21:N:202:PHE:HD2	1.85	0.41
21:N:250:ASP:CG	21:N:906:ARG:HH21	2.26	0.41
21:N:708:ALA:O	21:N:713:VAL:HG22	2.19	0.41
21:N:719:ASN:O	21:N:722:THR:N	2.53	0.41
22:O:179:PHE:HA	22:O:182:LYS:HD3	2.03	0.41
22:O:224:GLY:O	22:O:225:ASP:OD1	2.38	0.41
22:O:283:HIS:O	22:O:286:PHE:HB2	2.20	0.41
22:O:372:GLU:OE2	22:O:376:GLN:NE2	2.53	0.41
24:Q:90:LYS:HZ3	24:Q:130:ARG:HD3	1.85	0.41
25:R:185:LEU:O	25:R:188:LYS:HB3	2.20	0.41
25:R:286:LEU:HB3	25:R:289:ILE:HG12	2.02	0.41
26:S:3:SER:C	26:S:7:MET:HG2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:137:PHE:HA	26:S:140:LEU:HB3	2.03	0.41
26:S:144:LEU:CD1	26:S:155:LEU:HD13	2.47	0.41
26:S:297:ILE:C	26:S:299:LYS:HB3	2.45	0.41
26:S:321:GLN:O	26:S:326:ASP:N	2.40	0.41
26:S:371:LEU:HA	26:S:376:THR:OG1	2.20	0.41
26:S:409:LEU:HA	26:S:412:ASN:CB	2.43	0.41
26:S:455:GLU:HG3	26:S:459:GLN:HE21	1.85	0.41
26:S:458:GLN:NE2	28:U:273:LEU:HB2	2.36	0.41
26:S:473:ASP:O	26:S:476:LEU:N	2.54	0.41
27:T:157:TYR:O	27:T:161:TRP:N	2.45	0.41
27:T:202:LEU:HG	27:T:214:GLU:HB3	2.02	0.41
28:U:72:TYR:O	28:U:76:MET:N	2.25	0.41
29:V:95:LEU:HD22	29:V:100:ARG:HG2	2.03	0.41
29:V:232:GLU:O	29:V:235:GLU:N	2.52	0.41
30:W:20:ASP:OD1	30:W:25:ARG:HA	2.20	0.41
33:Z:103:TYR:OH	33:Z:140:LEU:HD12	2.20	0.41
33:Z:212:LEU:O	33:Z:215:ASN:N	2.53	0.41
33:Z:263:ALA:O	33:Z:266:LYS:N	2.53	0.41
33:Z:276:ASN:HA	33:Z:277:GLU:HA	1.75	0.41
33:Z:379:GLN:HE21	33:Z:842:GLN:HB3	1.85	0.41
33:Z:831:LEU:HD22	33:Z:834:LEU:HD12	2.03	0.41
10:c:149:TYR:HE1	11:d:59:ILE:HB	1.84	0.41
10:c:175:LEU:HD12	10:c:200:THR:HG23	2.01	0.41
11:d:34:VAL:HG23	11:d:163:THR:HB	2.02	0.41
11:d:216:LYS:HB2	11:d:220:ASP:CG	2.46	0.41
12:e:236:THR:O	12:e:240:ILE:HG13	2.19	0.41
14:g:109:ILE:HG13	14:g:140:GLY:O	2.20	0.41
3:h:32:ILE:HD11	3:h:167:LYS:HG3	2.01	0.41
4:i:60:CYS:C	4:i:217:ARG:HH22	2.28	0.41
4:i:215:TYR:HE2	4:i:217:ARG:HB2	1.85	0.41
5:j:16:THR:HG23	5:j:121:ILE:HD13	2.02	0.41
5:j:50:PHE:CD1	5:j:50:PHE:N	2.85	0.41
1:1:71:MET:HG3	1:1:130:ILE:HG22	2.03	0.41
3:3:40:THR:HA	3:3:45:ILE:HA	2.02	0.41
3:3:126:LYS:HG2	3:3:127:GLY:H	1.84	0.41
4:4:196:LEU:HD23	4:4:196:LEU:HA	1.85	0.41
5:5:11:ILE:CG2	5:5:142:ALA:H	2.33	0.41
5:5:25:CYS:SG	5:5:43:ILE:HG13	2.59	0.41
6:6:55:GLN:HG3	7:7:163:TYR:CE1	2.55	0.41
6:6:183:ILE:O	6:6:189:ILE:HA	2.20	0.41
7:7:180:THR:OG1	7:7:183:GLU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:119:LYS:O	1:8:120:ARG:C	2.62	0.41
8:A:204:GLU:HG2	8:A:244:ARG:HB3	2.03	0.41
10:C:53:THR:OG1	10:C:210:ARG:NH1	2.53	0.41
10:C:160:TRP:CH2	11:D:52:LEU:HD23	2.53	0.41
12:E:243:LEU:O	12:E:244:LYS:C	2.64	0.41
13:F:43:HIS:CE1	13:F:184:GLY:HA2	2.50	0.41
13:F:67:ASP:OD2	13:F:69:HIS:NE2	2.53	0.41
13:F:156:LEU:CD2	14:G:59:LEU:HA	2.50	0.41
14:G:25:GLU:O	14:G:28:VAL:HB	2.21	0.41
15:H:282:LYS:HZ1	17:J:223:ILE:CB	2.26	0.41
17:J:26:LYS:CE	21:N:106:ILE:HG21	2.46	0.41
17:J:142:VAL:N	17:J:209:LYS:HA	2.24	0.41
18:K:70:ASP:OD2	21:N:569:LYS:HG3	2.21	0.41
18:K:100:LEU:HD23	18:K:100:LEU:HA	1.83	0.41
19:L:149:ASP:CG	19:L:152:THR:HB	2.46	0.41
19:L:241:ALA:HB1	19:L:276:CYS:CA	2.50	0.41
20:M:270:ALA:O	20:M:274:ALA:N	2.53	0.41
20:M:312:LEU:HB3	20:M:342:ARG:HA	2.01	0.41
21:N:50:TYR:C	21:N:58:ARG:HD2	2.45	0.41
21:N:60:MET:CA	21:N:88:ARG:HG3	2.49	0.41
21:N:61:ALA:CA	21:N:64:ILE:HB	2.48	0.41
21:N:173:LYS:N	21:N:173:LYS:CD	2.77	0.41
21:N:222:TYR:O	21:N:225:LEU:N	2.53	0.41
21:N:775:CYS:N	21:N:866:TYR:H	2.18	0.41
21:N:780:ASP:C	21:N:783:SER:H	2.29	0.41
22:O:29:PHE:HA	22:O:32:PHE:CB	2.50	0.41
22:O:212:GLN:O	22:O:215:TYR:HB3	2.19	0.41
22:O:310:PHE:HE1	22:O:341:ILE:HG12	1.84	0.41
22:O:338:LYS:NZ	22:O:353:VAL:HB	2.31	0.41
22:O:385:GLU:OE1	28:U:190:LEU:N	2.54	0.41
23:P:156:ALA:O	23:P:159:ILE:HG22	2.21	0.41
23:P:223:LEU:O	23:P:227:ILE:N	2.32	0.41
23:P:224:LEU:O	23:P:227:ILE:HB	2.21	0.41
23:P:263:HIS:CA	23:P:266:TYR:HB3	2.49	0.41
23:P:314:VAL:HA	23:P:317:THR:HB	2.02	0.41
23:P:369:LEU:O	23:P:371:LEU:HG	2.20	0.41
23:P:377:GLU:O	23:P:380:ILE:HB	2.19	0.41
23:P:410:GLN:C	23:P:412:LEU:N	2.77	0.41
23:P:433:ILE:O	23:P:436:GLU:N	2.53	0.41
24:Q:51:ARG:NH1	24:Q:58:ILE:HD12	2.35	0.41
24:Q:66:VAL:HG21	24:Q:107:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:270:ILE:CD1	24:Q:299:MET:HB3	2.51	0.41
24:Q:335:PHE:O	24:Q:336:ASN:C	2.61	0.41
25:R:63:TYR:CE2	25:R:94:PHE:CE1	3.08	0.41
25:R:188:LYS:HB2	25:R:217:HIS:ND1	2.36	0.41
25:R:213:TYR:HA	25:R:216:ILE:HB	2.02	0.41
25:R:258:LEU:HD22	25:R:290:SER:HA	2.02	0.41
25:R:351:LYS:HG3	25:R:355:SER:OG	2.20	0.41
25:R:382:ASP:CB	26:S:402:ILE:CD1	2.99	0.41
27:T:64:VAL:HA	27:T:67:LEU:HD12	2.03	0.41
27:T:201:PRO:HD2	27:T:204:ASN:HD22	1.85	0.41
28:U:7:LYS:HE3	28:U:7:LYS:HB2	1.88	0.41
28:U:20:ASP:OD2	29:V:100:ARG:NH2	2.54	0.41
28:U:272:GLU:O	28:U:276:ILE:HG13	2.20	0.41
29:V:127:LYS:O	29:V:130:GLU:HG2	2.21	0.41
29:V:267:LYS:NZ	29:V:272:GLY:O	2.48	0.41
31:X:113:GLU:HB2	31:X:118:ASP:HB3	2.01	0.41
33:Z:103:TYR:CZ	33:Z:137:TYR:HD1	2.39	0.41
33:Z:151:HIS:CG	33:Z:152:GLU:N	2.88	0.41
33:Z:269:TYR:CD1	33:Z:272:TYR:HE2	2.36	0.41
33:Z:407:VAL:HB	33:Z:439:TYR:OH	2.20	0.41
33:Z:420:ALA:O	33:Z:424:SER:N	2.45	0.41
8:a:135:ARG:NE	14:g:125:LEU:HA	2.35	0.41
9:b:149:GLN:O	9:b:156:TYR:HA	2.19	0.41
10:c:112:VAL:HG13	10:c:137:TYR:CE2	2.56	0.41
10:c:166:GLY:O	10:c:169:THR:HG23	2.20	0.41
11:d:162:GLN:NE2	11:d:163:THR:H	2.19	0.41
12:e:74:ILE:HG12	12:e:109:VAL:HG22	2.02	0.41
12:e:128:SER:CB	13:f:125:GLY:HA3	2.51	0.41
12:e:222:ILE:HA	12:e:228:PHE:HA	2.02	0.41
13:f:105:VAL:HG12	13:f:145:LEU:HD13	2.02	0.41
14:g:136:THR:HG22	14:g:138:PHE:HB3	2.02	0.41
14:g:239:ALA:HA	14:g:242:PHE:HB3	2.02	0.41
4:i:113:LYS:O	4:i:117:PHE:N	2.45	0.41
4:i:206:VAL:HB	4:i:214:GLU:HG2	2.01	0.41
5:j:63:LEU:HD21	5:j:103:TYR:CZ	2.55	0.41
6:k:36:ARG:HG2	6:k:46:PHE:HE2	1.85	0.41
6:k:41:HIS:HD2	6:k:185:ASP:O	2.03	0.41
7:l:229:LEU:HD21	7:l:263:HIS:CD2	2.55	0.41
1:1:43:ALA:HB1	1:1:221:LEU:HD11	2.01	0.41
4:4:67:SER:O	4:4:70:ILE:N	2.47	0.41
4:4:215:TYR:CE2	4:4:217:ARG:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:65:GLU:O	5:5:66:MET:C	2.64	0.41
5:5:189:ILE:HD13	5:5:189:ILE:HA	1.87	0.41
6:6:13:VAL:HG23	6:6:114:PRO:CB	2.48	0.41
6:6:79:ALA:O	6:6:82:SER:HB2	2.20	0.41
7:7:271:LEU:O	7:7:274:LYS:HB3	2.19	0.41
1:8:29:GLY:C	1:8:74:ASN:HD21	2.25	0.41
1:8:133:LEU:HG	1:8:226:VAL:HG12	2.03	0.41
2:9:60:LEU:HD12	2:9:69:PHE:O	2.20	0.41
2:9:234:ASP:N	2:9:238:GLY:O	2.54	0.41
9:B:37:ILE:HD12	9:B:192:ALA:HB2	2.01	0.41
10:C:186:VAL:O	10:C:190:ILE:HG13	2.21	0.41
11:D:66:LYS:HD3	11:D:69:SER:HA	2.02	0.41
11:D:162:GLN:NE2	11:D:163:THR:H	2.19	0.41
12:E:223:THR:OG1	12:E:226:ASP:HB2	2.21	0.41
13:F:171:TYR:O	13:F:174:ARG:HB3	2.21	0.41
14:G:69:VAL:HA	14:G:75:GLY:HA2	2.02	0.41
15:H:163:VAL:CG1	15:H:164:SER:H	2.26	0.41
15:H:167:ASP:C	15:H:174:VAL:HG11	2.45	0.41
15:H:194:SER:HG	15:H:197:MET:HB3	1.84	0.41
15:H:311:ILE:HG12	15:H:355:THR:HB	2.00	0.41
15:H:403:ARG:O	15:H:406:LEU:HB2	2.21	0.41
15:H:420:ARG:HB3	15:H:424:THR:CG2	2.50	0.41
16:I:389:LEU:O	16:I:390:GLY:C	2.63	0.41
18:K:113:THR:CB	19:L:125:PRO:HB2	2.46	0.41
18:K:160:VAL:HG23	18:K:161:MET:N	2.36	0.41
18:K:216:GLY:HA3	19:L:313:ASP:CB	2.50	0.41
18:K:332:GLY:O	18:K:333:ARG:HD3	2.20	0.41
19:L:149:ASP:HB3	19:L:154:THR:H	1.86	0.41
19:L:216:LYS:HG3	19:L:341:GLY:N	2.35	0.41
19:L:294:GLY:O	19:L:298:ASP:HB2	2.20	0.41
19:L:374:PHE:HD2	19:L:376:PHE:HE1	1.67	0.41
19:L:377:GLU:O	19:L:381:LYS:N	2.42	0.41
20:M:156:LEU:HD23	20:M:156:LEU:HA	1.71	0.41
21:N:124:TYR:CD1	21:N:162:ARG:HG2	2.55	0.41
21:N:320:SER:O	21:N:321:LEU:HB2	2.19	0.41
21:N:522:ALA:O	21:N:557:LEU:HD12	2.20	0.41
21:N:669:GLU:H	21:N:675:VAL:HG21	1.86	0.41
22:O:58:ARG:CG	22:O:61:LEU:HB2	2.51	0.41
23:P:143:LEU:O	23:P:147:LYS:N	2.34	0.41
23:P:168:TYR:CD2	23:P:176:LYS:HB2	2.55	0.41
23:P:310:ARG:O	23:P:311:TRP:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:382:ASP:O	23:P:386:GLN:HG2	2.20	0.41
25:R:221:VAL:HG22	25:R:325:HIS:HB3	2.02	0.41
25:R:370:LYS:O	25:R:373:PRO:HD2	2.19	0.41
26:S:39:ASN:O	26:S:147:TRP:CH2	2.74	0.41
26:S:156:VAL:O	26:S:159:ASN:HB2	2.20	0.41
26:S:455:GLU:CD	26:S:458:GLN:HB2	2.46	0.41
27:T:188:GLU:HA	27:T:191:LYS:NZ	2.36	0.41
27:T:227:PRO:HG3	27:T:236:ASN:H	1.86	0.41
27:T:254:ASP:HB3	29:V:295:VAL:HG11	2.03	0.41
28:U:52:PHE:HE2	28:U:80:CYS:SG	2.41	0.41
28:U:55:PRO:HD2	28:U:72:TYR:CD2	2.54	0.41
28:U:273:LEU:HD22	29:V:295:VAL:HG22	2.03	0.41
28:U:283:ARG:CZ	29:V:288:LEU:HD13	2.50	0.41
28:U:306:VAL:HG12	28:U:306:VAL:O	2.21	0.41
30:W:71:LYS:O	30:W:74:ALA:N	2.54	0.41
30:W:158:ILE:O	30:W:162:ASN:HB2	2.20	0.41
31:X:75:TRP:HE1	31:X:122:TYR:HD1	1.69	0.41
33:Z:140:LEU:HD23	33:Z:140:LEU:HA	1.63	0.41
33:Z:328:ASP:HA	33:Z:332:ASN:CB	2.48	0.41
33:Z:382:ALA:HA	33:Z:385:PHE:CE2	2.55	0.41
33:Z:418:ALA:O	33:Z:422:ILE:HG13	2.20	0.41
33:Z:512:ILE:CG2	33:Z:521:GLU:HB3	2.49	0.41
33:Z:527:SER:HA	33:Z:530:LEU:HD12	2.01	0.41
33:Z:821:GLY:HA3	33:Z:862:MET:CB	2.49	0.41
33:Z:923:ILE:C	33:Z:959:HIS:CE1	2.98	0.41
8:a:245:LEU:HA	8:a:248:ILE:HG12	2.02	0.41
9:b:13:SER:O	9:b:16:GLY:N	2.39	0.41
9:b:171:ALA:O	9:b:175:LEU:HG	2.21	0.41
9:b:180:ASN:H	9:b:183:LEU:HD11	1.85	0.41
10:c:122:TYR:HE2	10:c:131:PHE:CE2	2.38	0.41
13:f:231:ALA:HA	13:f:234:ILE:CD1	2.50	0.41
14:g:5:GLY:C	14:g:8:TYR:HE1	2.27	0.41
14:g:126:TYR:O	14:g:129:VAL:HG22	2.20	0.41
3:h:40:THR:HA	3:h:45:ILE:HA	2.02	0.41
3:h:44:TYR:HE2	3:h:46:ALA:HA	1.82	0.41
6:k:19:LYS:HE2	6:k:178:GLY:C	2.46	0.41
6:k:143:LEU:C	6:k:147:HIS:HD1	2.26	0.41
7:l:215:LEU:O	7:l:219:TYR:N	2.48	0.41
1:1:21:PHE:CE1	2:2:142:PRO:HG3	2.56	0.41
1:1:35:ALA:HB1	1:1:139:GLY:O	2.20	0.41
2:2:166:LEU:HD23	2:2:166:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:65:ARG:HB2	4:4:71:TRP:CZ3	2.56	0.41
4:4:91:ASN:CB	4:4:111:MET:HE1	2.50	0.41
5:5:16:THR:HG23	5:5:121:ILE:HD13	2.02	0.41
5:5:88:THR:HG23	5:5:124:PHE:HZ	1.85	0.41
6:6:41:HIS:HD2	6:6:185:ASP:O	2.03	0.41
6:6:60:ILE:HG21	6:6:84:VAL:HG22	2.03	0.41
6:6:146:HIS:CD2	6:6:147:HIS:CE1	3.09	0.41
7:7:81:PHE:CZ	7:7:88:ILE:HB	2.56	0.41
8:A:131:ARG:HA	8:A:131:ARG:HD2	1.80	0.41
9:B:1:MET:HG2	9:B:2:THR:N	2.36	0.41
9:B:215:GLY:O	9:B:234:ARG:HB3	2.21	0.41
12:E:194:LYS:O	12:E:198:LEU:HD13	2.21	0.41
13:F:29:ILE:HD11	13:F:149:PRO:HG2	2.02	0.41
13:F:132:LEU:HD23	13:F:132:LEU:HA	1.86	0.41
13:F:157:TYR:CE2	14:G:60:VAL:HG22	2.56	0.41
13:F:171:TYR:CA	13:F:174:ARG:HB3	2.46	0.41
13:F:213:ILE:HD12	13:F:230:VAL:HG12	2.02	0.41
14:G:119:TYR:CZ	14:G:123:HIS:HE1	2.38	0.41
15:H:147:ILE:CG1	15:H:176:VAL:HA	2.50	0.41
15:H:228:PRO:HG3	15:H:242:PRO:HB3	2.03	0.41
15:H:297:MET:HA	15:H:300:THR:HB	2.03	0.41
16:I:133:ILE:HG23	16:I:173:SER:OG	2.20	0.41
16:I:140:ILE:HD12	16:I:140:ILE:HG23	1.80	0.41
16:I:153:PRO:HB2	16:I:155:TYR:HE1	1.82	0.41
16:I:203:SER:HB2	16:I:268:SER:HA	2.03	0.41
16:I:280:ILE:N	16:I:281:GLN:CD	2.77	0.41
17:J:99:ALA:HB2	17:J:122:LEU:O	2.20	0.41
17:J:153:LEU:HD13	17:J:316:PHE:CE1	2.56	0.41
18:K:58:TYR:HD1	18:K:61:LEU:HD12	1.85	0.41
18:K:81:ARG:HA	18:K:84:GLU:CD	2.45	0.41
18:K:342:SER:C	18:K:343:LEU:CD1	2.86	0.41
19:L:251:ILE:HG23	19:L:262:ILE:CG2	2.47	0.41
20:M:334:ASP:O	20:M:337:LEU:N	2.54	0.41
21:N:124:TYR:HE1	21:N:164:ASP:OD2	2.03	0.41
21:N:153:ALA:O	21:N:156:ILE:HB	2.21	0.41
21:N:250:ASP:OD1	21:N:251:GLU:N	2.54	0.41
21:N:309:ILE:O	21:N:711:ARG:NH2	2.53	0.41
21:N:376:LYS:CA	21:N:411:ILE:HG12	2.41	0.41
21:N:599:TYR:HD1	21:N:632:LYS:HZ3	1.66	0.41
21:N:871:MET:O	21:N:872:THR:OG1	2.32	0.41
22:O:171:PHE:HA	22:O:174:THR:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:311:TRP:CZ2	23:P:338:TRP:CD1	3.09	0.41
23:P:322:LEU:HD23	23:P:322:LEU:HA	1.89	0.41
23:P:423:LEU:HG	29:V:238:LEU:HD12	2.03	0.41
24:Q:80:HIS:O	24:Q:84:TYR:N	2.52	0.41
24:Q:95:LYS:HE3	9:b:248:GLU:HB3	2.02	0.41
24:Q:382:LEU:HD22	24:Q:382:LEU:HA	1.79	0.41
24:Q:405:GLN:CB	25:R:395:ASN:CA	2.89	0.41
25:R:174:ILE:HG22	25:R:190:LYS:HD3	2.03	0.41
25:R:309:LEU:CD1	32:Y:76:GLU:HB2	2.51	0.41
25:R:336:LYS:HD2	25:R:336:LYS:HA	1.76	0.41
26:S:214:MET:HB3	26:S:233:LEU:HD23	2.03	0.41
26:S:385:SER:HB2	27:T:154:GLU:OE1	2.20	0.41
26:S:428:ARG:HG2	26:S:429:ASP:OD1	2.20	0.41
27:T:94:HIS:CE1	27:T:97:SER:H	2.39	0.41
27:T:131:LYS:HD3	27:T:134:LYS:HD3	2.01	0.41
28:U:7:LYS:NZ	28:U:158:PRO:HB2	2.34	0.41
28:U:72:TYR:CA	29:V:94:MET:HE3	2.51	0.41
28:U:270:ASN:O	28:U:271:ASP:C	2.64	0.41
29:V:207:ALA:C	29:V:211:LYS:HZ3	2.26	0.41
29:V:264:GLU:OE1	29:V:279:HIS:HB2	2.20	0.41
30:W:26:PHE:O	30:W:30:ILE:HG13	2.21	0.41
30:W:141:ILE:HD13	30:W:154:LEU:HD22	2.01	0.41
31:X:46:TRP:CE3	31:X:68:LEU:HD23	2.55	0.41
32:Y:76:GLU:HA	32:Y:79:ALA:CB	2.48	0.41
33:Z:106:TRP:CB	33:Z:140:LEU:HD13	2.51	0.41
33:Z:288:LEU:O	33:Z:290:GLU:CB	2.69	0.41
33:Z:359:LYS:HE2	33:Z:359:LYS:HB3	1.91	0.41
33:Z:599:ILE:HA	33:Z:602:LEU:HB2	2.02	0.41
8:a:92:ASN:HD22	8:a:137:LEU:HD11	1.84	0.41
9:b:1:MET:HG2	9:b:2:THR:N	2.36	0.41
9:b:64:VAL:HA	9:b:73:ALA:O	2.21	0.41
9:b:76:SER:OG	9:b:164:ILE:HG13	2.20	0.41
10:c:94:HIS:CG	10:c:114:ARG:HG2	2.55	0.41
13:f:104:ALA:O	13:f:108:ALA:N	2.41	0.41
14:g:33:ASN:HA	14:g:167:LYS:HZ1	1.85	0.41
4:i:113:LYS:HD2	4:i:148:THR:HG21	2.01	0.41
5:j:88:THR:HG23	5:j:124:PHE:HZ	1.85	0.41
5:j:190:ILE:HA	5:j:195:VAL:HG22	2.03	0.41
6:k:33:ASP:OD1	6:k:35:THR:N	2.28	0.41
1:8:43:ALA:HB1	1:8:221:LEU:HD11	2.02	0.41
1:8:180:GLU:HB2	1:8:183:THR:HG21	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:134:TYR:O	2:9:137:ARG:HB3	2.19	0.41
8:A:125:SER:HA	8:A:128:TYR:CD2	2.56	0.41
9:B:48:GLU:HG3	9:B:209:ILE:HD13	2.03	0.41
9:B:76:SER:OG	9:B:164:ILE:HG13	2.20	0.41
9:B:213:ILE:HG23	9:B:238:LEU:HD11	2.02	0.41
10:C:91:ALA:HB2	10:C:115:LEU:HD21	2.03	0.41
10:C:175:LEU:HD12	10:C:200:THR:HG23	2.01	0.41
11:D:34:VAL:HG23	11:D:163:THR:HB	2.02	0.41
12:E:22:PHE:HB3	12:E:26:TYR:CE2	2.55	0.41
12:E:70:ILE:HD12	12:E:74:ILE:HG22	2.03	0.41
12:E:130:GLU:HG2	12:E:131:GLU:N	2.35	0.41
12:E:188:HIS:CE1	12:E:190:SER:HG	2.35	0.41
12:E:223:THR:O	12:E:224:LYS:C	2.64	0.41
13:F:50:LYS:HE3	13:F:209:ASP:O	2.21	0.41
14:G:55:THR:HB	14:G:59:LEU:HD11	2.01	0.41
15:H:173:ARG:HG2	16:I:146:ILE:HD12	2.02	0.41
15:H:261:ARG:O	15:H:264:ALA:HB3	2.20	0.41
15:H:278:GLU:CA	16:I:292:ARG:HH22	2.32	0.41
15:H:341:ASP:CG	15:H:367:ARG:NH2	2.78	0.41
16:I:212:GLY:CA	16:I:388:ILE:HG12	2.51	0.41
16:I:273:ARG:HH22	17:J:277:ASN:ND2	2.19	0.41
16:I:280:ILE:C	16:I:281:GLN:NE2	2.79	0.41
16:I:312:ASP:HA	16:I:357:LYS:HD2	2.02	0.41
17:J:135:SER:HG	17:J:137:MET:HG2	1.86	0.41
17:J:360:GLY:O	17:J:363:THR:OG1	2.30	0.41
18:K:51:LEU:HA	18:K:54:LEU:HB2	2.01	0.41
18:K:81:ARG:HE	21:N:584:ARG:HH22	1.68	0.41
18:K:207:ARG:NH1	18:K:306:PHE:O	2.54	0.41
18:K:236:ARG:NH1	19:L:315:PHE:CD2	2.88	0.41
18:K:334:LEU:HA	18:K:334:LEU:HD12	1.88	0.41
19:L:133:ASN:O	19:L:135:VAL:HG13	2.21	0.41
19:L:184:GLY:HA2	19:L:190:ILE:CD1	2.51	0.41
19:L:400:PHE:O	19:L:404:ARG:N	2.48	0.41
21:N:56:SER:OG	21:N:57:ASP:N	2.54	0.41
21:N:106:ILE:O	21:N:109:TYR:N	2.53	0.41
21:N:214:LEU:HB2	21:N:225:LEU:HD21	2.03	0.41
21:N:339:MET:HG2	21:N:707:ASN:HB3	2.02	0.41
21:N:360:GLN:O	21:N:361:ASN:C	2.62	0.41
21:N:649:VAL:CG1	21:N:651:PHE:HB3	2.51	0.41
21:N:650:ASP:HA	21:N:653:ARG:HH11	1.86	0.41
21:N:891:VAL:HB	21:N:908:ARG:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:15:ARG:O	30:W:18:ASN:CG	2.61	0.41
22:O:47:LYS:O	22:O:81:TYR:CZ	2.74	0.41
22:O:169:ASN:O	22:O:173:SER:OG	2.38	0.41
22:O:234:LEU:HA	22:O:238:ILE:HD11	2.03	0.41
22:O:287:LEU:O	22:O:291:ILE:HG12	2.20	0.41
22:O:383:LYS:HB2	22:O:383:LYS:HE2	1.72	0.41
23:P:160:LEU:HG	23:P:183:GLN:HG3	2.01	0.41
23:P:200:SER:OG	23:P:201:ARG:N	2.54	0.41
23:P:245:TYR:HD1	23:P:260:VAL:HB	1.85	0.41
23:P:342:GLN:O	23:P:346:ILE:HG13	2.19	0.41
23:P:346:ILE:HD13	23:P:371:LEU:HD11	2.02	0.41
24:Q:9:GLU:HA	24:Q:12:ARG:HB3	2.02	0.41
24:Q:127:ARG:HG3	24:Q:128:GLU:N	2.36	0.41
24:Q:165:PHE:HA	24:Q:169:ASP:HB3	2.03	0.41
24:Q:310:SER:CB	24:Q:349:LYS:NZ	2.63	0.41
25:R:302:ALA:O	25:R:304:TYR:N	2.54	0.41
25:R:307:TYR:CA	25:R:310:GLU:HB3	2.48	0.41
25:R:382:ASP:CA	26:S:402:ILE:HD12	2.50	0.41
26:S:149:SER:HG	26:S:152:LEU:HD21	1.86	0.41
26:S:160:ARG:HH22	26:S:206:GLN:CB	2.33	0.41
26:S:225:HIS:CD2	26:S:228:GLU:OE2	2.72	0.41
26:S:286:TYR:CE1	26:S:323:LEU:HD13	2.56	0.41
26:S:293:ILE:HA	26:S:296:ALA:CB	2.50	0.41
26:S:323:LEU:HA	26:S:383:LEU:HD21	2.02	0.41
27:T:216:GLU:HA	27:T:219:LYS:NZ	2.36	0.41
28:U:20:ASP:HA	28:U:23:GLU:OE1	2.19	0.41
29:V:120:SER:O	29:V:123:VAL:HB	2.20	0.41
30:W:38:GLN:HG3	30:W:42:ASN:HD21	1.85	0.41
31:X:17:TYR:CZ	31:X:66:LEU:HD22	2.56	0.41
33:Z:139:LEU:N	33:Z:203:LEU:HD12	2.36	0.41
33:Z:272:TYR:CD1	33:Z:277:GLU:HB2	2.55	0.41
33:Z:361:HIS:CE1	33:Z:957:LEU:HA	2.55	0.41
33:Z:564:ARG:CG	33:Z:594:PRO:CA	2.95	0.41
33:Z:593:HIS:C	33:Z:596:THR:CB	2.93	0.41
33:Z:614:VAL:C	33:Z:616:LEU:N	2.78	0.41
33:Z:985:LYS:HB2	33:Z:993:GLU:O	2.19	0.41
8:a:204:GLU:HG2	8:a:244:ARG:HB3	2.03	0.41
9:b:21:ILE:O	9:b:25:LEU:HG	2.20	0.41
10:c:110:ILE:HA	10:c:113:ARG:HG2	2.03	0.41
11:d:138:PHE:HE1	11:d:145:PRO:HA	1.79	0.41
12:e:243:LEU:O	12:e:244:LYS:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:52:ASN:HB2	13:f:57:SER:OG	2.20	0.41
13:f:63:ILE:HD12	13:f:212:SER:OG	2.20	0.41
13:f:155:GLU:H	14:g:64:ASN:ND2	2.15	0.41
14:g:52:LYS:HE3	14:g:64:ASN:O	2.21	0.41
14:g:69:VAL:HA	14:g:75:GLY:HA2	2.02	0.41
4:i:133:ASP:HB2	4:i:134:PRO:HD2	2.02	0.41
6:k:66:LEU:HG	6:k:70:ARG:NH1	2.36	0.41
6:k:79:ALA:O	6:k:82:SER:HB2	2.20	0.41
7:l:81:PHE:CZ	7:l:88:ILE:HB	2.56	0.41
1:1:80:GLY:HA2	1:1:83:LEU:HB3	2.02	0.41
1:1:163:SER:HA	7:l:100:TRP:CZ3	2.55	0.41
1:1:223:ILE:N	1:1:234:GLU:O	2.46	0.41
2:2:94:GLN:OE1	3:h:137:SER:HA	2.20	0.41
4:4:41:VAL:HG21	4:4:139:LEU:HB2	2.03	0.41
4:4:48:ARG:NH2	4:4:199:GLY:HA3	2.36	0.41
4:4:65:ARG:NH1	9:B:224:TYR:CZ	2.89	0.41
5:5:67:PHE:CE1	5:5:91:VAL:HA	2.55	0.41
5:5:67:PHE:CE1	5:5:91:VAL:HG22	2.56	0.41
6:6:19:LYS:HE2	6:6:178:GLY:C	2.46	0.41
6:6:153:THR:N	6:6:156:GLU:OE1	2.42	0.41
2:9:163:VAL:HG23	2:9:169:THR:HG22	2.02	0.41
8:A:21:PRO:HA	9:B:23:TYR:CD1	2.56	0.41
8:A:51:THR:OG1	8:A:152:PRO:HB3	2.21	0.41
8:A:92:ASN:HD22	8:A:137:LEU:HD11	1.84	0.41
8:A:200:GLU:HA	8:A:244:ARG:HE	1.85	0.41
9:B:14:PRO:HA	10:C:24:TYR:CZ	2.55	0.41
9:B:243:ILE:O	9:B:247:LEU:N	2.52	0.41
10:C:73:ILE:C	10:C:227:GLN:HE22	2.28	0.41
11:D:216:LYS:HB2	11:D:220:ASP:HB3	2.03	0.41
13:F:59:TYR:HD2	13:F:209:ASP:HB3	1.86	0.41
13:F:110:HIS:HB3	14:G:86:ARG:HH22	1.85	0.41
13:F:140:SER:HG	13:F:143:HIS:CE1	2.24	0.41
14:G:56:SER:N	14:G:59:LEU:HD13	2.36	0.41
15:H:156:VAL:HG21	20:M:163:PHE:HB3	2.03	0.41
15:H:396:MET:CG	16:I:238:MET:CB	2.99	0.41
16:I:273:ARG:HG2	17:J:274:GLU:CD	2.46	0.41
17:J:27:ILE:O	18:K:51:LEU:HD13	2.21	0.41
17:J:174:PHE:HB3	17:J:179:ILE:HD11	2.01	0.41
18:K:343:LEU:C	18:K:345:ASP:H	2.29	0.41
19:L:356:GLY:HA2	19:L:359:GLU:OE1	2.20	0.41
20:M:173:ASP:OD2	20:M:176:PRO:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:142:GLU:O	21:N:146:LYS:N	2.49	0.41
21:N:214:LEU:HB3	21:N:220:CYS:SG	2.61	0.41
21:N:225:LEU:HA	21:N:228:VAL:HB	2.02	0.41
21:N:287:LEU:HD23	21:N:290:LEU:HD12	2.02	0.41
21:N:629:CYS:O	21:N:663:ILE:HG23	2.21	0.41
21:N:736:PHE:O	21:N:737:SER:C	2.64	0.41
22:O:83:LEU:O	22:O:87:LYS:HB2	2.20	0.41
22:O:152:ASP:O	22:O:156:THR:N	2.34	0.41
23:P:211:PRO:HD2	23:P:213:TYR:CZ	2.56	0.41
23:P:329:PHE:CE2	23:P:337:HIS:CD2	3.09	0.41
23:P:408:SER:OG	23:P:410:GLN:NE2	2.53	0.41
24:Q:39:SER:O	24:Q:47:ASP:N	2.51	0.41
24:Q:308:ASN:ND2	24:Q:313:ASP:OD2	2.54	0.41
24:Q:398:TYR:HD1	24:Q:398:TYR:HA	1.71	0.41
25:R:31:PHE:CE2	25:R:319:CYS:C	2.99	0.41
25:R:58:GLU:OE2	25:R:109:LYS:HD2	2.21	0.41
25:R:71:LEU:HD11	25:R:82:ASP:HB3	2.02	0.41
25:R:154:LEU:HD21	25:R:170:VAL:HG13	2.02	0.41
26:S:357:LEU:HD12	26:S:384:ARG:HH11	1.86	0.41
26:S:383:LEU:HA	26:S:386:ASN:HD22	1.86	0.41
26:S:393:ARG:HA	26:S:397:LEU:CG	2.51	0.41
27:T:99:SER:HB2	27:T:102:LYS:CD	2.50	0.41
27:T:110:LEU:O	27:T:114:LEU:N	2.33	0.41
27:T:160:ALA:HA	27:T:163:LEU:HD12	2.02	0.41
29:V:52:LEU:HD13	29:V:69:PHE:CZ	2.56	0.41
29:V:287:THR:C	29:V:291:ASN:HB2	2.44	0.41
30:W:25:ARG:NH2	30:W:114:VAL:O	2.46	0.41
33:Z:106:TRP:CA	33:Z:112:LYS:HD3	2.51	0.41
33:Z:208:VAL:HA	33:Z:220:ALA:HB3	2.02	0.41
33:Z:220:ALA:HA	33:Z:223:LEU:HB2	2.03	0.41
33:Z:334:LYS:HD2	33:Z:339:PHE:HB2	2.01	0.41
33:Z:381:LEU:HG	33:Z:385:PHE:CZ	2.56	0.41
33:Z:391:ASN:ND2	33:Z:396:ASN:HD22	2.19	0.41
8:a:49:ASP:C	8:a:152:PRO:HG3	2.46	0.41
8:a:200:GLU:HA	8:a:244:ARG:HE	1.85	0.41
9:b:222:LEU:O	4:i:68:PRO:HB3	2.20	0.41
10:c:13:PHE:HZ	11:d:128:PRO:O	2.04	0.41
11:d:72:VAL:HG23	11:d:136:ALA:HB3	2.02	0.41
12:e:10:ARG:HD2	12:e:14:THR:HG21	2.03	0.41
12:e:165:TYR:HB2	12:e:167:TYR:CE1	2.56	0.41
12:e:194:LYS:O	12:e:198:LEU:HD13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:59:TYR:HD2	13:f:209:ASP:HB3	1.86	0.41
13:f:67:ASP:HB3	13:f:70:MET:HB3	2.01	0.41
13:f:69:HIS:HB2	13:f:137:TYR:O	2.21	0.41
13:f:171:TYR:O	13:f:174:ARG:HB3	2.21	0.41
14:g:9:ASP:HB3	14:g:22:PHE:HB2	2.02	0.41
14:g:27:ALA:O	14:g:31:VAL:HG23	2.21	0.41
14:g:137:ILE:HG12	14:g:150:MET:HB2	2.03	0.41
3:h:38:ARG:HB2	3:h:189:GLY:C	2.46	0.41
3:h:101:PHE:O	3:h:102:LYS:C	2.64	0.41
5:j:24:ALA:HB2	5:j:187:VAL:HG22	2.03	0.41
7:l:188:TYR:CD1	7:l:198:LYS:HB2	2.55	0.41
1:1:31:ILE:HG23	1:1:74:ASN:ND2	2.36	0.41
1:1:98:HIS:HA	12:e:111:SER:OG	2.20	0.41
1:1:153:GLU:CD	1:1:156:ARG:HH21	2.28	0.41
1:1:241:ASP:OD1	1:1:241:ASP:N	2.53	0.41
2:2:60:LEU:HD12	2:2:69:PHE:O	2.20	0.41
2:2:113:LEU:O	2:2:116:ALA:N	2.49	0.41
2:2:264:GLN:NE2	3:3:55:ARG:N	2.69	0.41
2:2:264:GLN:OE1	3:3:54:THR:HG23	2.21	0.41
3:3:38:ARG:HB2	3:3:189:GLY:C	2.46	0.41
3:3:103:GLU:O	3:3:107:GLU:HG2	2.21	0.41
4:4:133:ASP:HB2	4:4:134:PRO:HD2	2.02	0.41
4:4:177:LYS:O	4:4:181:ILE:N	2.36	0.41
5:5:24:ALA:HB2	5:5:187:VAL:HG22	2.03	0.41
5:5:193:ASP:OD1	5:5:193:ASP:N	2.51	0.41
6:6:2:ASP:C	6:6:3:ILE:HG13	2.46	0.41
6:6:30:ASP:OD1	6:6:30:ASP:N	2.51	0.41
6:6:91:SER:HA	6:6:94:SER:HB2	2.03	0.41
6:6:108:ASP:OD1	6:6:110:LYS:N	2.54	0.41
6:6:116:LEU:O	6:6:127:GLU:HA	2.20	0.41
6:6:158:LEU:O	6:6:161:LEU:HB2	2.20	0.41
7:7:97:ALA:HB3	7:7:100:TRP:CD1	2.54	0.41
7:7:163:TYR:CE1	7:7:166:LYS:HD3	2.55	0.41
7:7:187:ILE:HB	7:7:199:GLY:O	2.20	0.41
7:7:229:LEU:HD21	7:7:263:HIS:CD2	2.55	0.41
1:8:241:ASP:N	1:8:241:ASP:OD1	2.53	0.41
2:9:103:LEU:HD11	2:9:128:TYR:CE2	2.55	0.41
2:9:103:LEU:HD11	2:9:128:TYR:CD2	2.56	0.41
8:A:92:ASN:ND2	8:A:137:LEU:HD11	2.36	0.41
8:A:154:ILE:CD1	8:A:168:ALA:HA	2.51	0.41
10:C:46:LEU:HD23	10:C:46:LEU:HA	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:94:HIS:CG	10:C:114:ARG:HG2	2.55	0.41
10:C:110:ILE:HA	10:C:113:ARG:HG2	2.03	0.41
10:C:112:VAL:HG13	10:C:137:TYR:CE2	2.56	0.41
10:C:141:ASP:CG	10:C:144:TYR:H	2.28	0.41
11:D:33:ALA:N	11:D:164:ILE:O	2.30	0.41
12:E:20:ARG:HE	13:F:31:GLN:HE22	1.68	0.41
13:F:144:LEU:HD21	13:F:159:THR:HG22	2.03	0.41
14:G:27:ALA:O	14:G:31:VAL:HG23	2.21	0.41
14:G:33:ASN:HA	14:G:167:LYS:HZ1	1.85	0.41
14:G:36:THR:CB	14:G:168:GLY:H	2.28	0.41
14:G:123:HIS:HA	14:G:129:VAL:HG11	2.03	0.41
14:G:136:THR:HG22	14:G:138:PHE:HB3	2.02	0.41
14:G:179:LEU:HD23	14:G:182:HIS:ND1	2.36	0.41
14:G:220:SER:OG	14:G:223:GLU:N	2.40	0.41
15:H:36:VAL:C	33:Z:615:LEU:HD21	2.46	0.41
15:H:69:VAL:HG13	16:I:180:THR:HG22	2.03	0.41
15:H:175:GLY:HA3	15:H:189:PRO:CG	2.50	0.41
15:H:204:PRO:O	15:H:265:ASN:ND2	2.54	0.41
16:I:146:ILE:HD11	16:I:154:ASP:CB	2.51	0.41
16:I:217:GLN:HE22	16:I:376:LEU:H	1.68	0.41
17:J:29:GLU:HB3	26:S:224:LYS:HE3	2.02	0.41
17:J:98:VAL:HG23	17:J:99:ALA:O	2.20	0.41
17:J:99:ALA:N	17:J:122:LEU:HB2	2.36	0.41
17:J:116:ARG:HB3	17:J:119:SER:HB2	2.02	0.41
17:J:150:VAL:HG13	17:J:197:LEU:HD13	2.02	0.41
17:J:273:LEU:O	17:J:276:LEU:HB2	2.20	0.41
18:K:94:LEU:CD1	18:K:138:ALA:HB1	2.51	0.41
18:K:126:LEU:HD13	18:K:130:LEU:O	2.21	0.41
18:K:157:SER:HB2	19:L:120:LYS:NZ	2.36	0.41
18:K:243:VAL:HG12	18:K:243:VAL:O	2.21	0.41
18:K:250:GLY:HA3	18:K:251:PRO:HD3	1.90	0.41
18:K:299:LEU:HD23	18:K:299:LEU:HA	1.87	0.41
18:K:342:SER:CA	18:K:344:ARG:HH12	2.34	0.41
19:L:284:ASP:HB2	20:M:302:GLN:NE2	2.35	0.41
20:M:309:LEU:HD22	20:M:336:ALA:HB1	2.01	0.41
20:M:352:PRO:HG2	20:M:357:ARG:HG2	2.03	0.41
20:M:363:ILE:O	20:M:366:ARG:HB3	2.20	0.41
20:M:397:GLU:HA	20:M:400:MET:HE2	2.02	0.41
20:M:397:GLU:OE1	20:M:421:GLU:HB2	2.21	0.41
20:M:398:ALA:O	20:M:402:ALA:N	2.45	0.41
21:N:7:ALA:HB3	21:N:8:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:8:PRO:HA	27:T:84:GLN:HG2	2.03	0.41
21:N:101:ILE:HG13	21:N:102:VAL:N	2.36	0.41
21:N:223:LEU:HD12	21:N:226:ASN:HB3	2.01	0.41
21:N:293:LEU:HD13	21:N:379:LEU:CD1	2.43	0.41
21:N:300:ASN:HA	21:N:303:LEU:HD12	2.03	0.41
21:N:318:LYS:HG2	21:N:332:VAL:HB	2.02	0.41
21:N:395:ALA:HB3	21:N:401:LYS:HB2	2.02	0.41
21:N:492:THR:CA	21:N:528:ARG:HD2	2.48	0.41
21:N:530:GLU:HA	21:N:533:ASP:OD2	2.21	0.41
21:N:561:GLY:HA2	21:N:597:ARG:HG3	2.03	0.41
21:N:564:ASN:HB3	21:N:567:ALA:HB3	2.03	0.41
21:N:880:ARG:NE	21:N:898:GLY:O	2.49	0.41
21:N:918:GLU:N	21:N:918:GLU:OE1	2.54	0.41
22:O:34:GLU:CB	22:O:36:LYS:H	2.34	0.41
22:O:81:TYR:O	22:O:82:LEU:C	2.63	0.41
22:O:165:LEU:O	22:O:169:ASN:N	2.24	0.41
22:O:236:HIS:HB3	22:O:237:PRO:HD2	2.03	0.41
22:O:245:ASP:O	22:O:248:TYR:HD2	2.04	0.41
22:O:289:GLN:HG2	22:O:293:LEU:HD22	2.02	0.41
22:O:360:GLY:H	22:O:363:ILE:HD12	1.86	0.41
23:P:39:LEU:HG	23:P:43:GLU:OE1	2.20	0.41
23:P:204:LEU:HD22	23:P:220:TYR:HE2	1.81	0.41
23:P:228:SER:OG	23:P:240:TYR:CD2	2.74	0.41
23:P:317:THR:HG22	23:P:318:TYR:CE1	2.55	0.41
23:P:320:PRO:HG2	23:P:322:LEU:HG	2.01	0.41
23:P:408:SER:H	23:P:410:GLN:HE22	1.68	0.41
24:Q:27:TYR:CD1	24:Q:61:LEU:HD22	2.56	0.41
24:Q:60:GLU:O	24:Q:64:LEU:HG	2.20	0.41
24:Q:88:PHE:CE2	24:Q:92:LYS:HG2	2.56	0.41
24:Q:129:LYS:HE3	9:b:187:ASP:CG	2.46	0.41
24:Q:239:PHE:O	24:Q:242:SER:OG	2.34	0.41
24:Q:275:ILE:O	24:Q:278:VAL:HB	2.20	0.41
24:Q:298:ALA:O	24:Q:302:VAL:HG23	2.21	0.41
24:Q:310:SER:HB3	24:Q:313:ASP:HB2	2.02	0.41
24:Q:413:LEU:HD12	25:R:406:GLN:NE2	2.36	0.41
24:Q:413:LEU:HD12	25:R:406:GLN:HE22	1.86	0.41
24:Q:420:ASN:OD1	24:Q:421:LYS:N	2.54	0.41
25:R:24:TYR:CD1	25:R:244:THR:HA	2.55	0.41
25:R:248:SER:O	25:R:252:TYR:HD2	2.04	0.41
25:R:305:PHE:HA	25:R:308:LEU:HD12	2.03	0.41
25:R:322:LEU:HA	25:R:325:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:309:PHE:O	26:S:312:GLN:HB2	2.21	0.41
26:S:311:GLN:O	26:S:315:LYS:HG3	2.21	0.41
26:S:343:LEU:HG	26:S:347:HIS:ND1	2.36	0.41
26:S:394:ILE:HG13	26:S:394:ILE:H	1.77	0.41
27:T:91:SER:H	27:T:94:HIS:HB2	1.85	0.41
27:T:169:GLN:HG3	27:T:174:PHE:CB	2.38	0.41
30:W:132:LEU:HD11	30:W:157:PHE:CZ	2.53	0.41
33:Z:103:TYR:OH	33:Z:136:ARG:HG2	2.21	0.41
33:Z:161:ILE:HB	33:Z:203:LEU:HD13	2.02	0.41
33:Z:311:ALA:HB1	33:Z:341:TYR:CE2	2.56	0.41
33:Z:344:LYS:HE2	33:Z:919:GLU:C	2.46	0.41
33:Z:353:VAL:HG12	33:Z:357:ILE:CG1	2.51	0.41
33:Z:474:LEU:HA	33:Z:477:TYR:HD2	1.86	0.41
33:Z:501:LYS:HB3	33:Z:533:VAL:O	2.20	0.41
33:Z:544:THR:HG22	33:Z:548:ASP:OD2	2.21	0.41
33:Z:602:LEU:HG	33:Z:882:LEU:HD22	2.02	0.41
33:Z:749:GLY:HA3	33:Z:750:GLU:HA	1.74	0.41
33:Z:770:GLU:HG2	33:Z:893:PHE:HE2	1.86	0.41
33:Z:774:ARG:NH2	33:Z:894:MET:SD	2.94	0.41
8:a:65:ASP:OD2	8:a:68:THR:HG23	2.21	0.41
8:a:91:ARG:NH1	14:g:157:TYR:CD2	2.89	0.41
9:b:38:LYS:HB3	9:b:160:LYS:O	2.20	0.41
11:d:195:THR:O	11:d:199:LEU:HG	2.20	0.41
11:d:216:LYS:HB2	11:d:220:ASP:HB3	2.03	0.41
11:d:230:ASN:O	11:d:234:THR:N	2.34	0.41
12:e:221:CYS:N	12:e:229:LYS:O	2.29	0.41
12:e:238:GLU:O	12:e:242:GLU:N	2.27	0.41
13:f:137:TYR:CE1	13:f:218:LYS:HA	2.55	0.41
14:g:36:THR:HA	14:g:165:THR:O	2.20	0.41
14:g:56:SER:N	14:g:59:LEU:HD13	2.36	0.41
14:g:60:VAL:HB	14:g:63:LYS:HG3	2.02	0.41
3:h:34:GLY:HA2	3:h:53:LEU:HD11	2.03	0.41
4:i:94:LEU:HA	4:i:94:LEU:HD23	1.90	0.41
5:j:12:VAL:O	5:j:139:SER:N	2.45	0.41
5:j:153:LEU:HD23	5:j:153:LEU:HA	1.93	0.41
5:j:164:PHE:HZ	5:j:200:LEU:HD21	1.86	0.41
5:j:182:GLY:HA2	5:j:202:MET:HE1	2.03	0.41
6:k:2:ASP:C	6:k:3:ILE:HG13	2.46	0.41
6:k:7:ILE:CD1	6:k:130:TYR:HB3	2.51	0.41
6:k:19:LYS:HB3	6:k:30:ASP:O	2.20	0.41
6:k:36:ARG:HB3	6:k:61:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:108:ASP:OD1	6:k:110:LYS:N	2.54	0.41
6:k:116:LEU:O	6:k:127:GLU:HA	2.20	0.41
6:k:116:LEU:O	6:k:127:GLU:HG3	2.20	0.41
7:l:133:TRP:O	7:l:136:SER:HB2	2.21	0.41
7:l:243:ASP:OD1	7:l:245:TYR:N	2.31	0.41
1:1:116:LEU:HD23	1:1:116:LEU:HA	1.90	0.41
1:1:164:LEU:O	5:5:148:GLY:HA3	2.20	0.41
1:1:220:GLY:HA2	1:1:238:LEU:N	2.35	0.41
4:4:110:GLN:O	4:4:111:MET:C	2.64	0.41
5:5:190:ILE:HA	5:5:195:VAL:HG22	2.03	0.41
6:6:77:PRO:CG	6:6:106:GLY:HA3	2.51	0.41
6:6:146:HIS:HD2	6:6:147:HIS:NE2	2.19	0.41
7:7:110:ILE:HB	7:7:131:GLU:OE1	2.21	0.41
7:7:273:TRP:CD2	5:j:201:LYS:HE3	2.56	0.41
1:8:52:TYR:HA	4:i:196:LEU:HB2	2.03	0.41
10:C:50:ARG:NE	10:C:59:GLN:HG3	2.36	0.41
10:C:172:ALA:O	10:C:173:GLN:C	2.64	0.41
11:D:122:GLN:HB3	12:E:136:ARG:NH2	2.34	0.41
13:F:182:ILE:HG21	13:F:188:GLU:HB2	2.02	0.41
13:F:207:THR:HG23	13:F:210:ASN:HD22	1.86	0.41
14:G:38:ILE:HG12	14:G:200:ILE:HD11	2.03	0.41
14:G:172:ALA:HA	14:G:199:ILE:HG23	2.03	0.41
15:H:103:THR:N	15:H:170:GLU:OE1	2.54	0.41
15:H:168:ILE:HG12	15:H:186:PRO:HB3	2.03	0.41
15:H:206:VAL:HG12	15:H:262:ALA:HA	2.02	0.41
17:J:286:LYS:C	17:J:288:ILE:N	2.77	0.41
18:K:53:LYS:HE3	18:K:54:LEU:HG	2.02	0.41
20:M:17:GLU:O	20:M:21:GLU:N	2.35	0.41
20:M:82:VAL:HB	20:M:141:LYS:C	2.46	0.41
20:M:230:LEU:HD23	20:M:233:ARG:HD2	2.01	0.41
20:M:256:ILE:HA	20:M:300:GLU:OE2	2.21	0.41
20:M:277:ILE:HA	20:M:322:LYS:HB2	2.02	0.41
21:N:32:VAL:HG13	21:N:36:TRP:HB3	2.03	0.41
21:N:45:ASP:O	21:N:49:LEU:N	2.44	0.41
21:N:181:GLU:O	21:N:185:ILE:HG12	2.21	0.41
21:N:355:TRP:HD1	21:N:356:LEU:HD23	1.86	0.41
21:N:433:THR:OG1	21:N:434:SER:N	2.53	0.41
21:N:529:GLN:HB3	21:N:559:TYR:CE1	2.56	0.41
21:N:556:ALA:O	21:N:559:TYR:N	2.54	0.41
21:N:884:PHE:CE2	21:N:892:PRO:HG3	2.55	0.41
22:O:142:ASP:C	22:O:144:VAL:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:260:VAL:HG12	23:P:264:ILE:CD1	2.50	0.41
23:P:279:ASP:C	23:P:281:ILE:H	2.28	0.41
23:P:440:HIS:HD2	28:U:213:LYS:HZ1	1.63	0.41
24:Q:164:GLU:HG3	24:Q:169:ASP:HB2	2.03	0.41
24:Q:354:PHE:C	24:Q:356:CYS:N	2.78	0.41
24:Q:358:GLU:O	24:Q:361:HIS:HB2	2.21	0.41
24:Q:380:MET:HE1	24:Q:382:LEU:HD21	1.94	0.41
25:R:58:GLU:O	25:R:58:GLU:HG3	2.21	0.41
25:R:66:LEU:O	25:R:69:GLU:HB3	2.20	0.41
25:R:225:LYS:NZ	25:R:260:THR:O	2.54	0.41
25:R:334:ARG:HH22	25:R:367:ASP:CB	2.18	0.41
26:S:190:SER:OG	26:S:191:HIS:N	2.54	0.41
26:S:379:LEU:O	26:S:381:VAL:N	2.53	0.41
26:S:467:PHE:N	26:S:467:PHE:CD1	2.87	0.41
27:T:31:LYS:NZ	27:T:81:TYR:HE1	2.19	0.41
27:T:108:LEU:HD21	27:T:169:GLN:NE2	2.35	0.41
27:T:142:LEU:C	27:T:145:PRO:HD2	2.45	0.41
27:T:145:PRO:O	27:T:148:LEU:HB2	2.21	0.41
27:T:226:TRP:O	27:T:228:ILE:HG13	2.21	0.41
28:U:37:ILE:HA	28:U:51:SER:CB	2.51	0.41
28:U:131:GLY:HA2	29:V:215:ASN:OD1	2.21	0.41
28:U:286:ILE:HG13	29:V:280:LEU:HB2	2.03	0.41
29:V:163:ALA:C	29:V:165:ILE:N	2.76	0.41
30:W:66:THR:HG23	30:W:67:ALA:N	2.36	0.41
31:X:94:ASN:C	31:X:96:ARG:H	2.29	0.41
33:Z:308:LYS:HE2	33:Z:345:GLU:HG2	2.02	0.41
33:Z:348:LEU:HD23	33:Z:348:LEU:HA	1.75	0.41
33:Z:586:GLU:O	33:Z:590:ALA:HB2	2.21	0.41
33:Z:765:MET:HB2	33:Z:776:VAL:CG1	2.51	0.41
33:Z:916:LEU:HD12	33:Z:982:ILE:HG12	2.02	0.41
8:a:154:ILE:CD1	8:a:168:ALA:HA	2.51	0.41
10:c:50:ARG:NE	10:c:59:GLN:HG3	2.36	0.41
10:c:189:ALA:HA	10:c:192:LEU:HB3	2.01	0.41
11:d:193:LYS:NZ	11:d:239:GLU:OE2	2.53	0.41
12:e:52:LYS:HB2	12:e:216:ASN:C	2.45	0.41
13:f:71:GLY:HA3	13:f:222:PHE:CZ	2.56	0.41
14:g:119:TYR:CZ	14:g:123:HIS:CE1	3.08	0.41
3:h:149:GLY:HA2	3:h:152:PHE:CE2	2.55	0.41
5:j:67:PHE:CE1	5:j:91:VAL:HA	2.55	0.41
6:k:1:MET:HG2	6:k:2:ASP:N	2.36	0.41
1:l:48:ASN:O	1:l:55:ASN:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:74:ASN:O	1:1:127:HIS:N	2.49	0.40
1:1:144:PHE:HD1	1:1:150:TYR:HB3	1.86	0.40
1:1:150:TYR:H	7:1:128:GLN:CD	2.28	0.40
4:4:215:TYR:HE2	4:4:217:ARG:HB2	1.85	0.40
5:5:182:GLY:HA2	5:5:202:MET:HE1	2.03	0.40
6:6:109:LYS:C	6:6:112:ASN:H	2.29	0.40
7:7:94:ARG:NH2	5:j:205:ASP:CG	2.79	0.40
1:8:37:GLU:N	1:8:193:TYR:OH	2.54	0.40
1:8:45:ASP:OD2	1:8:47:ARG:HB3	2.22	0.40
1:8:220:GLY:HA2	1:8:238:LEU:N	2.35	0.40
2:9:58:ASP:HA	2:9:228:PHE:HB3	2.00	0.40
8:A:34:ALA:HA	8:A:37:GLN:HB2	2.02	0.40
8:A:166:TYR:C	9:B:57:MET:HE2	2.46	0.40
9:B:220:ASP:OD1	9:B:220:ASP:N	2.51	0.40
10:C:194:LEU:HD23	10:C:194:LEU:HA	1.89	0.40
11:D:12:SER:H	11:D:16:HIS:H	1.67	0.40
11:D:12:SER:C	11:D:15:GLY:H	2.26	0.40
12:E:147:HIS:HA	12:E:152:GLY:O	2.21	0.40
14:G:70:VAL:HG11	14:G:112:PHE:CE1	2.57	0.40
14:G:194:LYS:HA	14:G:239:ALA:CB	2.51	0.40
15:H:428:MET:HG2	16:I:227:LEU:HD23	2.01	0.40
15:H:443:PHE:O	15:H:447:VAL:HG23	2.20	0.40
16:I:213:GLY:HA3	16:I:387:LYS:CE	2.47	0.40
16:I:244:LYS:N	16:I:370:ARG:O	2.47	0.40
16:I:249:TYR:N	16:I:375:ILE:O	2.54	0.40
16:I:253:GLY:N	16:I:257:THR:HB	2.26	0.40
16:I:366:ILE:HA	16:I:371:ILE:HD12	2.04	0.40
17:J:279:LEU:HD23	17:J:279:LEU:HA	1.91	0.40
18:K:213:GLY:C	18:K:219:LYS:HZ2	2.22	0.40
19:L:104:LEU:HD23	20:M:127:VAL:HG12	2.02	0.40
19:L:248:ALA:HB1	19:L:286:ILE:HG12	2.03	0.40
19:L:354:GLU:CD	19:L:380:VAL:HG12	2.46	0.40
19:L:369:LYS:C	19:L:370:LYS:HG3	2.47	0.40
20:M:166:ARG:O	20:M:170:MET:HB2	2.20	0.40
20:M:182:ASP:O	20:M:363:ILE:HD13	2.21	0.40
20:M:224:PRO:N	20:M:228:LYS:HD3	2.36	0.40
20:M:377:GLN:HG3	20:M:378:GLU:H	1.86	0.40
20:M:379:LEU:O	20:M:383:THR:HG23	2.21	0.40
20:M:422:VAL:CG1	20:M:424:ALA:H	2.31	0.40
21:N:398:ARG:HA	21:N:401:LYS:HB3	2.02	0.40
21:N:481:ALA:HB1	21:N:485:MET:HE2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:589:ILE:HG12	21:N:623:PHE:HD2	1.85	0.40
21:N:603:PRO:HA	21:N:606:VAL:HG22	2.02	0.40
21:N:669:GLU:O	21:N:783:SER:OG	2.16	0.40
21:N:717:LEU:HD12	21:N:718:GLU:H	1.86	0.40
22:O:190:TYR:O	22:O:193:LEU:HB3	2.21	0.40
22:O:293:LEU:O	22:O:294:MET:C	2.63	0.40
23:P:208:PHE:HA	23:P:212:LYS:HD3	2.02	0.40
23:P:236:GLU:HG2	23:P:240:TYR:CE2	2.56	0.40
23:P:288:ASN:HB3	23:P:293:LEU:HD21	2.03	0.40
23:P:435:LYS:HZ1	28:U:155:LEU:HD12	1.86	0.40
24:Q:9:GLU:O	24:Q:12:ARG:HB3	2.21	0.40
24:Q:115:ILE:HG23	24:Q:141:LEU:HD11	2.02	0.40
24:Q:211:PRO:O	24:Q:215:VAL:N	2.33	0.40
24:Q:296:ILE:O	24:Q:299:MET:HB2	2.21	0.40
25:R:106:ASN:O	25:R:110:ILE:HG13	2.20	0.40
25:R:170:VAL:O	25:R:174:ILE:HG23	2.20	0.40
25:R:178:GLY:H	25:R:187:VAL:HG21	1.86	0.40
25:R:225:LYS:CD	25:R:260:THR:HB	2.44	0.40
26:S:416:GLU:C	26:S:418:THR:N	2.78	0.40
27:T:51:TYR:O	27:T:56:MET:N	2.54	0.40
28:U:41:ALA:O	28:U:46:ILE:HG12	2.21	0.40
29:V:87:PHE:HA	29:V:90:LYS:HD2	2.03	0.40
29:V:94:MET:O	29:V:97:GLN:HB2	2.21	0.40
29:V:138:ALA:O	29:V:155:ALA:HA	2.20	0.40
30:W:148:GLU:OE2	30:W:175:THR:HA	2.21	0.40
31:X:10:PHE:HE1	31:X:124:LYS:CB	2.30	0.40
31:X:47:ASP:HB3	31:X:65:SER:HG	1.85	0.40
33:Z:399:LEU:O	33:Z:403:ASN:HB2	2.20	0.40
33:Z:449:ALA:HB1	33:Z:488:ALA:HB3	2.02	0.40
33:Z:459:ALA:HB3	33:Z:471:LEU:CB	2.51	0.40
33:Z:814:ALA:O	33:Z:817:LEU:HB2	2.21	0.40
33:Z:913:ILE:HG13	33:Z:963:ALA:HB3	2.02	0.40
8:a:108:TYR:CE2	4:i:95:HIS:CD2	3.08	0.40
9:b:108:LYS:NZ	5:j:78:GLU:O	2.46	0.40
10:c:91:ALA:HB2	10:c:115:LEU:HD21	2.02	0.40
12:e:71:ASP:OD1	7:l:139:ARG:NH2	2.46	0.40
12:e:223:THR:OG1	12:e:226:ASP:HB2	2.21	0.40
13:f:50:LYS:HE3	13:f:209:ASP:O	2.21	0.40
13:f:62:LYS:O	13:f:74:LEU:HG	2.22	0.40
14:g:25:GLU:O	14:g:28:VAL:HB	2.21	0.40
14:g:130:ARG:NH1	14:g:131:PRO:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:172:ALA:HA	14:g:199:ILE:HG23	2.03	0.40
3:h:60:ILE:C	3:h:61:TRP:CD1	2.99	0.40
3:h:85:TYR:CE2	3:h:92:PRO:HB3	2.56	0.40
3:h:105:CYS:O	3:h:109:LYS:N	2.54	0.40
4:i:65:ARG:HB2	4:i:71:TRP:CZ3	2.55	0.40
4:i:129:VAL:O	4:i:140:PHE:N	2.45	0.40
5:j:180:LEU:HA	5:j:180:LEU:HD23	1.84	0.40
7:l:95:ALA:O	7:l:102:ALA:N	2.54	0.40
7:l:96:THR:HG22	7:l:101:VAL:HG22	2.03	0.40
3:3:29:ASP:C	3:3:126:LYS:HD3	2.47	0.40
3:3:101:PHE:O	3:3:102:LYS:C	2.64	0.40
3:3:105:CYS:O	3:3:109:LYS:N	2.54	0.40
6:6:25:ILE:O	6:k:139:TYR:OH	2.39	0.40
6:6:49:GLU:HG3	7:7:166:LYS:NZ	2.36	0.40
7:7:95:ALA:O	7:7:102:ALA:N	2.54	0.40
2:9:220:ARG:HH12	3:h:47:ASN:HA	1.86	0.40
8:A:83:VAL:HG11	8:A:90:ALA:HB2	2.04	0.40
11:D:56:ASP:CG	11:D:58:ARG:HE	2.28	0.40
11:D:148:TYR:HD1	11:D:157:SER:O	2.04	0.40
12:E:10:ARG:HD2	12:E:14:THR:HG21	2.03	0.40
13:F:69:HIS:HB2	13:F:137:TYR:O	2.21	0.40
14:G:120:VAL:HA	14:G:132:PHE:HE2	1.86	0.40
14:G:189:ALA:HA	14:G:192:ALA:HB3	2.03	0.40
14:G:198:LYS:HE3	14:G:198:LYS:HB3	1.92	0.40
15:H:244:LYS:HB3	15:H:346:ARG:HB2	2.03	0.40
15:H:310:GLU:OE1	15:H:313:ALA:HB2	2.21	0.40
15:H:331:ARG:HA	15:H:334:LEU:HB2	2.03	0.40
15:H:389:PHE:HE1	15:H:419:LEU:HB3	1.86	0.40
15:H:399:GLU:HB3	15:H:402:ILE:HG12	2.03	0.40
15:H:454:TYR:OH	16:I:363:PRO:HB3	2.21	0.40
16:I:215:GLU:CD	16:I:218:ILE:HB	2.47	0.40
16:I:286:ASP:O	16:I:289:ARG:N	2.54	0.40
16:I:374:LYS:HZ3	16:I:376:LEU:HB3	1.86	0.40
18:K:342:SER:C	18:K:344:ARG:HH12	2.29	0.40
19:L:232:ALA:HB1	19:L:243:PHE:CE1	2.56	0.40
20:M:74:GLN:NE2	20:M:77:TYR:HA	2.36	0.40
20:M:84:GLU:CD	20:M:116:ALA:HB3	2.47	0.40
20:M:242:THR:OG1	20:M:273:LYS:HB3	2.22	0.40
20:M:290:ARG:HB3	20:M:291:PHE:H	1.53	0.40
20:M:354:GLU:HG2	20:M:357:ARG:HH22	1.79	0.40
21:N:194:ILE:HA	21:N:203:ARG:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:244:LYS:O	21:N:247:GLU:HB2	2.21	0.40
21:N:325:PHE:HE2	29:V:184:ASN:N	2.19	0.40
21:N:338:PHE:HE2	21:N:701:VAL:HG13	1.86	0.40
21:N:439:VAL:HA	21:N:442:LEU:HB3	2.03	0.40
21:N:758:VAL:N	21:N:871:MET:HA	2.20	0.40
22:O:301:PHE:O	22:O:302:VAL:C	2.64	0.40
22:O:313:ILE:O	22:O:316:ALA:HB3	2.21	0.40
22:O:380:LEU:O	22:O:382:LYS:N	2.53	0.40
23:P:36:LEU:O	23:P:37:ASP:C	2.64	0.40
23:P:128:ASN:HA	23:P:136:ARG:HH11	1.86	0.40
24:Q:372:GLN:O	24:Q:376:LYS:CE	2.62	0.40
25:R:188:LYS:HD3	25:R:217:HIS:HB3	2.03	0.40
25:R:222:ARG:C	25:R:224:PHE:N	2.78	0.40
25:R:330:VAL:C	25:R:332:GLU:N	2.78	0.40
25:R:402:LEU:HD22	25:R:405:LYS:NZ	2.36	0.40
26:S:402:ILE:HG22	26:S:403:SER:N	2.36	0.40
26:S:407:ILE:HD12	26:S:443:ILE:HB	2.03	0.40
26:S:421:TYR:O	26:S:424:SER:N	2.55	0.40
26:S:471:LEU:O	26:S:474:GLU:N	2.55	0.40
27:T:193:THR:HA	27:T:197:TYR:CD2	2.57	0.40
27:T:260:ILE:O	27:T:264:MET:HG3	2.21	0.40
28:U:191:THR:HA	28:U:194:LEU:HG	2.03	0.40
28:U:212:ASP:HA	28:U:215:ILE:CB	2.43	0.40
29:V:91:MET:O	29:V:95:LEU:HG	2.21	0.40
29:V:101:ASP:OD1	29:V:102:GLN:N	2.54	0.40
30:W:66:THR:HG22	30:W:71:LYS:HE2	1.88	0.40
30:W:109:ARG:HH21	30:W:196:SER:HA	1.85	0.40
30:W:180:LEU:HD23	30:W:180:LEU:HA	1.90	0.40
31:X:38:ASN:CG	31:X:39:GLU:H	2.26	0.40
31:X:85:ARG:HE	31:X:117:LYS:HB3	1.87	0.40
33:Z:282:ILE:HD11	33:Z:297:VAL:HG13	2.03	0.40
33:Z:295:ARG:O	33:Z:299:ASP:N	2.40	0.40
33:Z:434:GLN:O	33:Z:438:LYS:HG3	2.21	0.40
33:Z:744:ALA:HB1	33:Z:775:MET:CG	2.51	0.40
33:Z:886:VAL:HG22	33:Z:894:MET:HE1	2.02	0.40
8:a:46:ARG:NH2	9:b:57:MET:SD	2.93	0.40
8:a:92:ASN:ND2	8:a:137:LEU:HD11	2.36	0.40
8:a:125:SER:HA	8:a:128:TYR:CD2	2.56	0.40
8:a:125:SER:HA	8:a:128:TYR:HD2	1.86	0.40
8:a:158:ASP:OD1	8:a:162:TYR:N	2.41	0.40
11:d:187:THR:HB	11:d:190:GLU:CG	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:52:ASN:HB3	13:f:59:TYR:CD1	2.56	0.40
3:h:103:GLU:O	3:h:107:GLU:HG2	2.21	0.40
4:i:215:TYR:CE2	4:i:217:ARG:HB2	2.56	0.40
5:j:197:LYS:HE2	5:j:199:TYR:CE1	2.56	0.40
6:k:109:LYS:O	6:k:112:ASN:N	2.52	0.40
6:k:146:HIS:HD2	6:k:147:HIS:NE2	2.19	0.40
6:k:146:HIS:CD2	6:k:147:HIS:CE1	3.09	0.40
7:l:180:THR:OG1	7:l:183:GLU:HB2	2.21	0.40
1:1:57:ARG:HH22	4:4:193:TRP:C	2.29	0.40
2:2:91:SER:HB3	3:h:137:SER:N	2.36	0.40
3:3:57:HIS:O	3:3:58:ASP:C	2.64	0.40
5:5:4:PRO:HA	5:5:7:ILE:HD12	2.02	0.40
5:5:160:PRO:O	5:5:163:LEU:HB3	2.21	0.40
5:5:188:TYR:HA	5:5:196:VAL:O	2.22	0.40
6:6:77:PRO:HA	6:6:80:VAL:HB	2.03	0.40
6:6:153:THR:OG1	6:6:156:GLU:HG3	2.22	0.40
1:8:109:ALA:HA	1:8:144:PHE:HZ	1.87	0.40
1:8:227:THR:OG1	1:8:229:ASP:HB2	2.22	0.40
2:9:47:MET:HG2	2:9:210:ILE:HD11	2.04	0.40
8:A:65:ASP:OD2	8:A:68:THR:HG23	2.21	0.40
9:B:67:LEU:HD23	9:B:67:LEU:HA	1.87	0.40
9:B:97:TYR:CD1	9:B:101:TYR:HD2	2.40	0.40
10:C:12:ILE:HA	11:D:19:GLN:NE2	2.35	0.40
11:D:178:ASN:HB3	11:D:194:LEU:HD11	2.02	0.40
11:D:195:THR:O	11:D:199:LEU:HG	2.20	0.40
15:H:58:ASP:HB2	16:I:126:ILE:HG21	2.02	0.40
15:H:171:GLY:O	15:H:173:ARG:HG3	2.21	0.40
15:H:341:ASP:OD1	15:H:370:ARG:NH1	2.45	0.40
16:I:136:LEU:HG	16:I:172:CYS:O	2.22	0.40
16:I:230:THR:O	16:I:232:PRO:N	2.54	0.40
16:I:247:ILE:HD11	16:I:366:ILE:HG12	2.04	0.40
16:I:283:TYR:CG	16:I:284:LEU:N	2.89	0.40
16:I:366:ILE:HG23	16:I:371:ILE:HB	2.02	0.40
16:I:396:MET:HE3	16:I:396:MET:HB3	1.93	0.40
17:J:42:ARG:HA	17:J:45:GLU:CB	2.42	0.40
17:J:171:PRO:HB3	17:J:181:GLN:NE2	2.36	0.40
17:J:320:SER:O	17:J:321:VAL:C	2.64	0.40
17:J:326:GLU:O	17:J:330:ILE:HG13	2.21	0.40
18:K:289:ASP:O	18:K:292:VAL:HG22	2.21	0.40
18:K:356:ILE:O	18:K:359:LYS:N	2.53	0.40
19:L:133:ASN:C	19:L:135:VAL:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:189:GLN:HE22	19:L:350:PRO:CD	2.35	0.40
19:L:224:PRO:HG3	19:L:328:ASN:ND2	2.33	0.40
19:L:242:ASN:N	19:L:276:CYS:HA	2.37	0.40
19:L:351:LEU:HD22	19:L:386:PHE:C	2.47	0.40
20:M:198:VAL:O	20:M:201:MET:HB3	2.20	0.40
21:N:217:MET:HE1	21:N:248:GLU:HG3	2.03	0.40
21:N:473:ASP:HB3	21:N:510:HIS:CE1	2.56	0.40
21:N:666:GLN:HE22	21:N:712:ASN:HA	1.87	0.40
22:O:140:LYS:HD3	22:O:140:LYS:C	2.47	0.40
22:O:190:TYR:CZ	22:O:194:LEU:HD21	2.56	0.40
22:O:360:GLY:H	22:O:363:ILE:CD1	2.35	0.40
23:P:37:ASP:O	23:P:41:VAL:HG23	2.21	0.40
23:P:183:GLN:O	23:P:187:SER:OG	2.30	0.40
23:P:218:LEU:HD23	23:P:221:TYR:HD2	1.85	0.40
23:P:243:GLU:O	23:P:246:GLN:HB2	2.22	0.40
23:P:297:GLU:O	23:P:300:VAL:HB	2.21	0.40
24:Q:83:GLU:O	24:Q:86:MET:HB2	2.22	0.40
25:R:37:LYS:HD2	25:R:317:ILE:HG21	2.02	0.40
25:R:172:LEU:HB3	25:R:176:ARG:HH22	1.87	0.40
25:R:314:ASN:C	25:R:318:PRO:HG2	2.47	0.40
25:R:337:VAL:HG22	25:R:337:VAL:O	2.21	0.40
26:S:306:SER:HA	26:S:310:LEU:HB2	2.03	0.40
26:S:338:MET:CA	26:S:339:GLN:C	2.90	0.40
26:S:360:PHE:CD2	26:S:384:ARG:HG2	2.56	0.40
27:T:239:SER:OG	27:T:240:LYS:N	2.54	0.40
28:U:54:LEU:HD23	28:U:54:LEU:HA	1.80	0.40
28:U:130:VAL:HG21	28:U:198:LYS:NZ	2.37	0.40
28:U:195:LYS:HD3	29:V:233:LYS:HB2	2.03	0.40
29:V:142:ASP:OD1	29:V:144:ILE:HB	2.21	0.40
29:V:246:LYS:O	29:V:250:GLN:HG3	2.22	0.40
33:Z:120:SER:HB3	33:Z:137:TYR:HB2	2.04	0.40
33:Z:208:VAL:O	33:Z:212:LEU:N	2.53	0.40
33:Z:288:LEU:O	33:Z:290:GLU:HB3	2.21	0.40
33:Z:334:LYS:CD	33:Z:339:PHE:HB2	2.51	0.40
33:Z:342:LEU:HB2	33:Z:344:LYS:HB2	2.03	0.40
33:Z:364:ASN:CG	33:Z:954:PRO:HD2	2.46	0.40
33:Z:460:SER:OG	33:Z:906:ALA:HA	2.21	0.40
33:Z:565:PHE:HZ	33:Z:896:LYS:NZ	2.19	0.40
33:Z:985:LYS:HB3	33:Z:991:GLU:N	2.34	0.40
33:Z:991:GLU:CD	33:Z:993:GLU:HB3	2.47	0.40
8:a:41:ASN:ND2	8:a:173:PRO:HD2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:128:LEU:HA	10:c:128:LEU:HD23	1.81	0.40
10:c:186:VAL:O	10:c:190:ILE:HG13	2.21	0.40
12:e:15:PHE:CE2	13:f:126:ARG:HB2	2.57	0.40
12:e:42:THR:N	12:e:45:GLY:O	2.40	0.40
12:e:70:ILE:HD12	12:e:74:ILE:HG22	2.03	0.40
13:f:67:ASP:OD2	13:f:69:HIS:NE2	2.53	0.40
13:f:146:GLU:O	13:f:153:VAL:HA	2.22	0.40
13:f:206:LEU:HD12	13:f:234:ILE:HG23	2.03	0.40
14:g:9:ASP:CB	14:g:22:PHE:HB2	2.51	0.40
14:g:179:LEU:HD23	14:g:182:HIS:ND1	2.36	0.40
5:j:146:LEU:HD23	5:j:146:LEU:HA	1.84	0.40
7:l:163:TYR:CE1	7:l:166:LYS:HD3	2.55	0.40
7:l:271:LEU:HA	7:l:274:LYS:HB3	2.02	0.40
1:1:86:ARG:HD3	1:1:124:TYR:OH	2.22	0.40
1:1:110:ARG:CB	12:e:104:ASP:HB2	2.52	0.40
3:3:15:GLU:HB3	4:4:145:HIS:HB2	2.03	0.40
3:3:32:ILE:HG23	3:3:195:VAL:O	2.22	0.40
3:3:192:ILE:HB	3:3:207:PHE:HB2	2.02	0.40
5:5:95:LEU:O	5:5:98:ARG:N	2.49	0.40
5:5:197:LYS:HE2	5:5:199:TYR:CE1	2.56	0.40
6:6:7:ILE:CD1	6:6:130:TYR:HB3	2.51	0.40
6:6:19:LYS:HB3	6:6:30:ASP:O	2.20	0.40
7:7:96:THR:HG22	7:7:101:VAL:HG22	2.03	0.40
7:7:201:ILE:HD11	7:7:219:TYR:CD2	2.56	0.40
1:8:21:PHE:CD1	2:9:142:PRO:HG3	2.56	0.40
2:9:132:VAL:HG12	2:9:136:ARG:HG2	2.03	0.40
2:9:180:GLY:HA2	2:9:217:LEU:HD21	2.03	0.40
2:9:216:VAL:HA	2:9:219:TYR:HD2	1.86	0.40
8:A:41:ASN:ND2	8:A:173:PRO:HD2	2.37	0.40
8:A:49:ASP:C	8:A:152:PRO:HG3	2.46	0.40
8:A:61:ASP:OD1	8:A:63:LEU:HG	2.20	0.40
8:A:136:PRO:O	14:G:15:PHE:HZ	2.05	0.40
13:F:71:GLY:HA3	13:F:222:PHE:CZ	2.56	0.40
13:F:206:LEU:HB2	13:F:211:LEU:HB2	2.04	0.40
13:F:206:LEU:HD12	13:F:234:ILE:HG23	2.03	0.40
14:G:109:ILE:HG21	14:G:147:HIS:HB2	2.03	0.40
14:G:137:ILE:HG12	14:G:150:MET:HB2	2.03	0.40
15:H:251:PRO:O	15:H:256:LYS:HE3	2.22	0.40
15:H:288:ALA:HA	15:H:335:GLU:CG	2.45	0.40
15:H:292:ARG:CD	20:M:250:GLN:HE21	2.34	0.40
16:I:281:GLN:NE2	16:I:281:GLN:N	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:412:ASP:O	16:I:413:ASP:HB2	2.22	0.40
18:K:134:SER:O	18:K:259:ARG:NH1	2.54	0.40
18:K:212:TYR:O	18:K:339:GLU:HA	2.21	0.40
18:K:217:THR:CB	18:K:340:PHE:CZ	3.04	0.40
18:K:278:ALA:CB	18:K:324:LEU:HD23	2.52	0.40
19:L:358:LEU:HD13	19:L:380:VAL:HG21	2.02	0.40
21:N:23:TYR:CD2	27:T:35:ILE:HG23	2.56	0.40
21:N:55:PHE:CE2	21:N:57:ASP:HB2	2.56	0.40
21:N:87:ASP:CG	21:N:88:ARG:N	2.76	0.40
21:N:242:PHE:CA	21:N:245:LEU:HB3	2.49	0.40
21:N:385:VAL:O	21:N:388:PRO:HD2	2.21	0.40
21:N:475:ALA:HA	21:N:513:ILE:HG13	2.03	0.40
21:N:519:VAL:O	21:N:523:LEU:HG	2.21	0.40
21:N:533:ASP:CA	21:N:536:ILE:HB	2.49	0.40
21:N:585:ARG:HB2	21:N:616:HIS:HB3	2.04	0.40
21:N:884:PHE:CD2	21:N:892:PRO:HG3	2.56	0.40
22:O:41:LEU:HD11	22:O:81:TYR:CB	2.38	0.40
22:O:185:PHE:O	22:O:186:ASN:C	2.64	0.40
22:O:215:TYR:CE1	22:O:247:ASN:HB2	2.53	0.40
22:O:284:GLU:O	22:O:288:ARG:N	2.30	0.40
22:O:369:ARG:C	22:O:372:GLU:H	2.28	0.40
23:P:47:ARG:HA	23:P:85:LYS:HE3	2.03	0.40
23:P:80:THR:O	23:P:83:SER:OG	2.40	0.40
23:P:152:LYS:HD3	23:P:155:GLU:OE1	2.21	0.40
23:P:163:LEU:HA	23:P:167:THR:HG21	2.03	0.40
23:P:178:GLN:O	23:P:182:GLU:HG3	2.21	0.40
23:P:184:MET:O	23:P:187:SER:HB2	2.21	0.40
23:P:211:PRO:HD2	23:P:213:TYR:CE2	2.56	0.40
23:P:392:LYS:CE	24:Q:354:PHE:CG	2.95	0.40
23:P:392:LYS:HZ1	24:Q:354:PHE:HB3	1.79	0.40
23:P:427:GLU:HA	29:V:234:GLU:OE2	2.21	0.40
23:P:435:LYS:HZ2	28:U:156:HIS:H	1.68	0.40
24:Q:31:LEU:HD23	24:Q:54:GLN:OE1	2.21	0.40
25:R:39:SER:OG	25:R:41:GLU:HB2	2.22	0.40
25:R:214:TYR:C	25:R:216:ILE:H	2.30	0.40
25:R:240:SER:HG	25:R:244:THR:N	2.20	0.40
25:R:259:PHE:CE1	25:R:329:PHE:HA	2.55	0.40
26:S:152:LEU:HD23	26:S:155:LEU:HD12	2.04	0.40
26:S:162:VAL:HG12	26:S:167:LEU:CD2	2.52	0.40
26:S:212:SER:HA	26:S:215:MET:HB3	2.03	0.40
26:S:317:HIS:CE1	26:S:321:GLN:NE2	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:322:LEU:HD22	26:S:352:VAL:HG21	2.03	0.40
27:T:38:ASN:OD1	27:T:41:ILE:HD11	2.21	0.40
27:T:101:LYS:O	27:T:105:LEU:HG	2.21	0.40
27:T:192:ASN:O	27:T:196:SER:N	2.35	0.40
28:U:262:GLN:H	28:U:262:GLN:CD	2.29	0.40
29:V:35:LEU:HD23	29:V:38:LEU:HD12	2.03	0.40
29:V:140:VAL:N	29:V:154:ASP:O	2.54	0.40
30:W:5:ALA:CB	30:W:101:ARG:HB2	2.51	0.40
31:X:24:CYS:SG	31:X:86:ILE:HD11	2.62	0.40
31:X:48:PHE:CD2	31:X:99:PHE:CZ	3.09	0.40
33:Z:372:ALA:C	33:Z:374:LEU:H	2.28	0.40
33:Z:522:THR:HG22	33:Z:522:THR:O	2.21	0.40
33:Z:539:ASN:HB3	33:Z:542:ILE:CG2	2.46	0.40
33:Z:774:ARG:CD	33:Z:893:PHE:HB2	2.52	0.40
33:Z:789:GLN:HG3	33:Z:792:VAL:H	1.86	0.40
8:a:34:ALA:HA	8:a:37:GLN:HB2	2.02	0.40
8:a:133:TYR:CD2	9:b:3:ASP:HB2	2.56	0.40
9:b:25:LEU:HA	9:b:28:VAL:HB	2.04	0.40
11:d:24:LEU:O	11:d:27:VAL:HB	2.22	0.40
12:e:170:LYS:HD2	12:e:180:GLN:OE1	2.22	0.40
3:h:57:HIS:O	3:h:58:ASP:C	2.64	0.40
4:i:106:VAL:HA	4:i:109:LEU:HB3	2.02	0.40
4:i:110:GLN:O	4:i:111:MET:C	2.64	0.40
4:i:203:ASP:CG	4:i:217:ARG:HH11	2.29	0.40
6:k:117:TYR:HA	6:k:127:GLU:HA	2.03	0.40
7:l:189:TYR:O	7:l:197:LEU:N	2.37	0.40
1:1:133:LEU:HG	1:1:226:VAL:HG12	2.03	0.40
2:2:195:GLU:O	2:2:198:ILE:N	2.43	0.40
3:3:148:SER:O	3:3:151:THR:HG23	2.22	0.40
5:5:12:VAL:O	5:5:139:SER:N	2.45	0.40
5:5:28:ARG:HD3	5:5:180:LEU:O	2.21	0.40
5:5:115:LYS:HG2	9:B:141:GLU:OE2	2.21	0.40
7:7:191:ASP:CG	7:7:193:ASP:HB2	2.46	0.40
1:8:23:PRO:O	2:9:137:ARG:HD2	2.21	0.40
1:8:48:ASN:O	1:8:55:ASN:N	2.54	0.40
1:8:134:ASP:CG	1:8:138:LYS:HB2	2.46	0.40
1:8:191:LEU:HD23	1:8:191:LEU:HA	1.85	0.40
1:8:223:ILE:N	1:8:234:GLU:O	2.46	0.40
8:A:74:CYS:HG	8:A:233:PHE:HD2	1.67	0.40
11:D:13:PRO:HA	12:E:26:TYR:CE1	2.56	0.40
11:D:43:VAL:O	11:D:44:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:165:TYR:HB2	12:E:167:TYR:CE1	2.56	0.40
12:E:170:LYS:HD2	12:E:180:GLN:OE1	2.22	0.40
13:F:34:VAL:HA	13:F:161:ILE:O	2.22	0.40
13:F:38:LEU:O	13:F:45:VAL:N	2.33	0.40
15:H:100:ALA:HB1	15:H:102:CYS:SG	2.62	0.40
15:H:242:PRO:CG	15:H:347:GLY:HA2	2.50	0.40
15:H:377:PHE:O	15:H:378:SER:OG	2.39	0.40
16:I:275:VAL:O	16:I:278:GLU:HB2	2.20	0.40
16:I:334:LEU:O	16:I:337:LEU:HB3	2.22	0.40
16:I:389:LEU:HD21	16:I:411:LYS:HZ2	1.85	0.40
17:J:44:LEU:HD21	18:K:69:LYS:HB3	2.03	0.40
17:J:114:CYS:CB	17:J:123:HIS:HB3	2.51	0.40
17:J:212:ARG:HB3	17:J:248:ASP:CG	2.46	0.40
18:K:320:ARG:NH2	19:L:302:GLN:OE1	2.54	0.40
19:L:111:GLU:HG3	19:L:113:SER:O	2.21	0.40
19:L:192:GLU:HA	19:L:195:GLU:OE1	2.22	0.40
19:L:280:MET:HB3	19:L:283:VAL:HG21	2.03	0.40
20:M:81:ASN:HB3	20:M:143:ASN:N	2.35	0.40
20:M:298:ASP:CB	20:M:301:VAL:HG22	2.50	0.40
20:M:338:LEU:HA	20:M:343:LEU:O	2.21	0.40
20:M:386:PHE:HA	20:M:390:GLN:OE1	2.22	0.40
21:N:95:SER:OG	21:N:98:VAL:HG23	2.21	0.40
21:N:575:ALA:HB2	21:N:587:ALA:HB3	2.04	0.40
21:N:766:GLN:OE1	21:N:766:GLN:N	2.54	0.40
22:O:58:ARG:HA	22:O:61:LEU:H	1.86	0.40
22:O:63:ASP:O	22:O:66:VAL:HB	2.21	0.40
22:O:266:PHE:CE2	22:O:270:ILE:HG22	2.56	0.40
22:O:270:ILE:O	22:O:270:ILE:HG13	2.21	0.40
22:O:356:ARG:HH11	22:O:357:ILE:H	1.69	0.40
22:O:383:LYS:HD2	22:O:387:ARG:NH2	2.37	0.40
23:P:40:LEU:HA	23:P:43:GLU:HB3	2.04	0.40
23:P:177:ILE:HA	23:P:180:ILE:HB	2.02	0.40
23:P:337:HIS:O	23:P:341:LEU:HG	2.22	0.40
24:Q:1:MET:O	24:Q:3:LEU:HG	2.21	0.40
24:Q:356:CYS:O	24:Q:357:VAL:HG12	2.00	0.40
24:Q:370:THR:O	24:Q:371:GLN:C	2.65	0.40
24:Q:382:LEU:N	24:Q:383:ASP:CA	2.73	0.40
25:R:76:GLN:HB3	25:R:84:LYS:HB3	2.02	0.40
25:R:180:PHE:HD2	25:R:181:TYR:CE1	2.40	0.40
25:R:296:LEU:HD22	25:R:304:TYR:CE2	2.56	0.40
25:R:331:ARG:O	25:R:334:ARG:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:3:SER:O	26:S:7:MET:HG2	2.22	0.40
26:S:214:MET:O	26:S:218:LEU:N	2.46	0.40
26:S:215:MET:HE2	26:S:215:MET:HB2	1.86	0.40
26:S:321:GLN:H	26:S:321:GLN:CD	2.29	0.40
26:S:417:GLN:H	26:S:419:VAL:HG23	1.86	0.40
26:S:461:PHE:CE2	28:U:274:MET:HA	2.54	0.40
27:T:202:LEU:HA	27:T:205:ILE:HG22	2.04	0.40
27:T:240:LYS:HE3	27:T:243:ALA:HB1	2.03	0.40
28:U:69:ASP:OD1	28:U:71:ASN:N	2.35	0.40
28:U:165:GLU:O	28:U:169:ILE:HG13	2.22	0.40
29:V:246:LYS:O	29:V:249:GLU:N	2.54	0.40
30:W:22:PRO:HA	30:W:23:ARG:HA	1.69	0.40
31:X:85:ARG:CZ	31:X:101:LEU:HA	2.52	0.40
33:Z:138:ARG:HD2	33:Z:141:SER:OG	2.21	0.40
33:Z:242:PHE:O	33:Z:245:VAL:CB	2.67	0.40
33:Z:593:HIS:C	33:Z:596:THR:OG1	2.64	0.40
10:c:150:THR:HG21	10:c:160:TRP:HE1	1.87	0.40
11:d:69:SER:O	11:d:221:ILE:HD12	2.22	0.40
12:e:85:ALA:O	12:e:86:ARG:C	2.65	0.40
12:e:120:ALA:HB1	12:e:160:PRO:O	2.22	0.40
12:e:147:HIS:HA	12:e:152:GLY:O	2.21	0.40
12:e:148:ASP:O	12:e:152:GLY:N	2.53	0.40
12:e:181:ALA:O	12:e:184:LEU:HB2	2.22	0.40
13:f:157:TYR:OH	14:g:60:VAL:HG13	2.20	0.40
14:g:113:ALA:HB2	14:g:149:TYR:CD2	2.57	0.40
14:g:194:LYS:HA	14:g:239:ALA:CB	2.51	0.40
14:g:220:SER:O	14:g:225:ASN:N	2.55	0.40
5:j:28:ARG:HD3	5:j:180:LEU:O	2.21	0.40
5:j:160:PRO:O	5:j:163:LEU:HB3	2.21	0.40
5:j:203:ARG:HB3	5:j:205:ASP:OD1	2.20	0.40
7:l:191:ASP:CG	7:l:193:ASP:HB2	2.47	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	1	220/241 (91%)	207 (94%)	13 (6%)	0	100	100
1	8	220/241 (91%)	207 (94%)	13 (6%)	0	100	100
2	2	231/266 (87%)	222 (96%)	7 (3%)	2 (1%)	14	49
2	9	231/266 (87%)	222 (96%)	7 (3%)	2 (1%)	14	49
3	3	203/215 (94%)	189 (93%)	12 (6%)	2 (1%)	12	47
3	h	203/215 (94%)	188 (93%)	13 (6%)	2 (1%)	12	47
4	4	220/261 (84%)	211 (96%)	9 (4%)	0	100	100
4	i	220/261 (84%)	211 (96%)	9 (4%)	0	100	100
5	5	202/205 (98%)	194 (96%)	8 (4%)	0	100	100
5	j	202/205 (98%)	194 (96%)	8 (4%)	0	100	100
6	6	196/198 (99%)	186 (95%)	8 (4%)	2 (1%)	12	47
6	k	196/198 (99%)	186 (95%)	8 (4%)	2 (1%)	12	47
7	7	210/287 (73%)	203 (97%)	7 (3%)	0	100	100
7	l	210/287 (73%)	203 (97%)	7 (3%)	0	100	100
8	A	241/252 (96%)	227 (94%)	13 (5%)	1 (0%)	30	67
8	a	241/252 (96%)	227 (94%)	13 (5%)	1 (0%)	30	67
9	B	248/250 (99%)	235 (95%)	13 (5%)	0	100	100
9	b	248/250 (99%)	235 (95%)	13 (5%)	0	100	100
10	C	242/258 (94%)	232 (96%)	10 (4%)	0	100	100
10	c	242/258 (94%)	232 (96%)	10 (4%)	0	100	100
11	D	239/254 (94%)	224 (94%)	14 (6%)	1 (0%)	30	67
11	d	239/254 (94%)	224 (94%)	14 (6%)	1 (0%)	30	67
12	E	240/260 (92%)	228 (95%)	12 (5%)	0	100	100
12	e	240/260 (92%)	228 (95%)	12 (5%)	0	100	100
13	F	231/234 (99%)	221 (96%)	10 (4%)	0	100	100
13	f	231/234 (99%)	221 (96%)	10 (4%)	0	100	100
14	G	242/288 (84%)	224 (93%)	14 (6%)	4 (2%)	7	35
14	g	242/288 (84%)	226 (93%)	15 (6%)	1 (0%)	30	67
15	H	373/467 (80%)	301 (81%)	60 (16%)	12 (3%)	3	21
16	I	348/437 (80%)	297 (85%)	42 (12%)	9 (3%)	4	26

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
17	J	371/405 (92%)	325 (88%)	39 (10%)	7 (2%)	6	32
18	K	357/428 (83%)	300 (84%)	45 (13%)	12 (3%)	3	20
19	L	354/437 (81%)	291 (82%)	58 (16%)	5 (1%)	9	39
20	M	349/434 (80%)	310 (89%)	38 (11%)	1 (0%)	36	71
21	N	846/945 (90%)	665 (79%)	173 (20%)	8 (1%)	14	49
22	O	372/393 (95%)	263 (71%)	83 (22%)	26 (7%)	1	11
23	P	427/445 (96%)	315 (74%)	100 (23%)	12 (3%)	4	24
24	Q	429/434 (99%)	325 (76%)	92 (21%)	12 (3%)	4	24
25	R	398/429 (93%)	280 (70%)	95 (24%)	23 (6%)	1	14
26	S	435/523 (83%)	332 (76%)	89 (20%)	14 (3%)	3	21
27	T	265/274 (97%)	202 (76%)	60 (23%)	3 (1%)	11	45
28	U	244/338 (72%)	202 (83%)	37 (15%)	5 (2%)	6	31
29	V	237/306 (78%)	185 (78%)	44 (19%)	8 (3%)	3	20
30	W	195/268 (73%)	154 (79%)	33 (17%)	8 (4%)	2	18
31	X	125/156 (80%)	96 (77%)	24 (19%)	5 (4%)	2	18
32	Y	32/89 (36%)	21 (66%)	10 (31%)	1 (3%)	3	22
33	Z	738/993 (74%)	589 (80%)	119 (16%)	30 (4%)	2	18
All	All	13225/15139 (87%)	11460 (87%)	1543 (12%)	222 (2%)	9	35

All (222) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
14	G	130	ARG
14	G	131	PRO
15	H	377	PHE
15	H	378	SER
15	H	380	PRO
16	I	231	HIS
16	I	282	LYS
17	J	317	PRO
17	J	319	PRO
18	K	246	TYR
18	K	340	PHE
18	K	342	SER
18	K	343	LEU
18	K	345	ASP

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Mol	Chain	Res	Type
18	K	363	ALA
19	L	252	VAL
19	L	253	ASP
19	L	254	LYS
21	N	176	GLN
22	O	12	SER
22	O	18	ALA
22	O	24	PRO
22	O	142	ASP
22	O	143	LEU
22	O	302	VAL
22	O	358	ILE
24	Q	357	VAL
24	Q	402	THR
25	R	149	ASN
25	R	239	THR
25	R	284	ALA
26	S	201	ILE
26	S	203	SER
26	S	431	VAL
26	S	453	ASP
29	V	242	LYS
30	W	67	ALA
30	W	68	GLU
30	W	105	VAL
31	X	64	ILE
31	X	78	ILE
33	Z	219	ASP
33	Z	244	ARG
33	Z	273	LEU
33	Z	274	SER
33	Z	288	LEU
33	Z	289	GLY
33	Z	467	VAL
33	Z	591	ILE
33	Z	595	MET
3	3	19	GLY
3	3	20	THR
6	6	2	ASP
14	G	129	VAL
15	H	96	PRO
15	H	98	GLN

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Mol	Chain	Res	Type
16	I	280	ILE
16	I	281	GLN
18	K	158	ILE
18	K	160	VAL
18	K	344	ARG
21	N	761	ILE
22	O	11	LEU
22	O	65	PHE
24	Q	355	GLU
24	Q	381	ILE
25	R	396	LYS
25	R	397	ASN
25	R	401	HIS
26	S	200	GLU
27	T	250	MET
29	V	159	ILE
31	X	24	CYS
33	Z	243	GLN
33	Z	272	TYR
33	Z	592	GLU
33	Z	749	GLY
33	Z	787	ASP
6	k	2	ASP
15	H	168	ILE
15	H	195	VAL
16	I	191	ALA
19	L	258	GLU
21	N	874	ILE
22	O	16	MET
22	O	140	LYS
22	O	141	ASN
22	O	303	LYS
23	P	85	LYS
23	P	411	LEU
24	Q	356	CYS
24	Q	384	LYS
24	Q	387	TYR
24	Q	389	VAL
24	Q	403	PRO
25	R	287	GLN
25	R	289	ILE
26	S	43	LYS

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Mol	Chain	Res	Type
26	S	298	ARG
26	S	299	LYS
28	U	305	ARG
29	V	240	ALA
33	Z	215	ASN
33	Z	359	LYS
33	Z	594	PRO
3	h	21	SER
18	K	129	GLU
18	K	159	SER
21	N	741	TYR
21	N	903	VAL
21	N	913	PRO
22	O	83	LEU
22	O	226	LYS
22	O	352	TRP
22	O	353	VAL
23	P	92	SER
23	P	132	VAL
23	P	425	HIS
24	Q	395	GLY
25	R	223	ASN
25	R	241	ILE
25	R	398	ALA
25	R	420	ALA
25	R	421	VAL
26	S	40	GLU
26	S	45	THR
26	S	470	GLN
27	T	251	HIS
29	V	125	THR
29	V	163	ALA
30	W	78	ASP
30	W	79	THR
30	W	147	ILE
31	X	29	VAL
32	Y	67	VAL
33	Z	757	SER
33	Z	802	ASP
3	h	18	LEU
2	2	42	THR
2	9	42	THR

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Mol	Chain	Res	Type
8	A	35	THR
11	D	121	THR
16	I	310	GLU
16	I	329	ILE
17	J	221	LYS
18	K	84	GLU
20	M	300	GLU
22	O	13	THR
22	O	70	TYR
22	O	94	GLU
22	O	233	LEU
22	O	289	GLN
22	O	307	MET
22	O	357	ILE
24	Q	334	HIS
25	R	197	MET
25	R	285	ALA
25	R	286	LEU
25	R	320	LYS
25	R	348	LEU
25	R	394	ASP
26	S	267	SER
28	U	130	VAL
28	U	209	GLU
29	V	68	VAL
29	V	258	GLU
29	V	274	GLN
33	Z	217	GLU
33	Z	218	GLU
33	Z	364	ASN
33	Z	434	GLN
33	Z	483	THR
33	Z	577	GLN
8	a	35	THR
11	d	121	THR
14	G	12	ASN
15	H	60	GLU
15	H	286	GLU
15	H	454	TYR
17	J	131	ASP
19	L	226	THR
23	P	41	VAL

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Mol	Chain	Res	Type
23	P	119	ILE
24	Q	353	PRO
26	S	301	PRO
28	U	132	LEU
31	X	28	PRO
33	Z	524	ALA
33	Z	925	VAL
14	g	12	ASN
21	N	914	VAL
15	H	171	GLY
23	P	237	VAL
23	P	281	ILE
23	P	320	PRO
23	P	404	LYS
23	P	433	ILE
25	R	72	VAL
15	H	163	VAL
16	I	232	PRO
17	J	134	VAL
22	O	144	VAL
22	O	344	VAL
25	R	26	VAL
25	R	38	VAL
30	W	118	ILE
33	Z	286	VAL
16	I	391	ILE
17	J	132	PRO
17	J	318	PRO
21	N	904	VAL
25	R	255	VAL
27	T	35	ILE
30	W	30	ILE
33	Z	480	ASN
2	2	205	VAL
6	6	9	VAL
2	9	205	VAL
26	S	41	ILE
28	U	133	PRO
33	Z	955	VAL
6	k	9	VAL

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	1	185/201 (92%)	185 (100%)	0	100	100
1	8	185/201 (92%)	185 (100%)	0	100	100
2	2	199/224 (89%)	199 (100%)	0	100	100
2	9	199/224 (89%)	199 (100%)	0	100	100
3	3	167/178 (94%)	167 (100%)	0	100	100
3	h	168/178 (94%)	168 (100%)	0	100	100
4	4	181/214 (85%)	181 (100%)	0	100	100
4	i	181/214 (85%)	181 (100%)	0	100	100
5	5	172/173 (99%)	172 (100%)	0	100	100
5	j	171/173 (99%)	171 (100%)	0	100	100
6	6	175/175 (100%)	175 (100%)	0	100	100
6	k	175/175 (100%)	175 (100%)	0	100	100
7	7	169/235 (72%)	169 (100%)	0	100	100
7	l	169/235 (72%)	168 (99%)	1 (1%)	78	80
8	A	207/210 (99%)	207 (100%)	0	100	100
8	a	207/210 (99%)	207 (100%)	0	100	100
9	B	209/209 (100%)	209 (100%)	0	100	100
9	b	209/209 (100%)	209 (100%)	0	100	100
10	C	203/216 (94%)	203 (100%)	0	100	100
10	c	203/216 (94%)	203 (100%)	0	100	100
11	D	213/226 (94%)	213 (100%)	0	100	100
11	d	213/226 (94%)	213 (100%)	0	100	100
12	E	198/215 (92%)	198 (100%)	0	100	100
12	e	198/215 (92%)	198 (100%)	0	100	100
13	F	192/193 (100%)	192 (100%)	0	100	100
13	f	192/193 (100%)	192 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	G	201/239 (84%)	200 (100%)	1 (0%)	81	81
14	g	201/239 (84%)	201 (100%)	0	100	100
15	H	296/399 (74%)	292 (99%)	4 (1%)	59	71
16	I	282/385 (73%)	279 (99%)	3 (1%)	65	74
17	J	319/352 (91%)	318 (100%)	1 (0%)	86	84
18	K	313/374 (84%)	308 (98%)	5 (2%)	55	69
19	L	306/377 (81%)	303 (99%)	3 (1%)	68	76
20	M	303/375 (81%)	302 (100%)	1 (0%)	86	84
21	N	714/797 (90%)	712 (100%)	2 (0%)	86	84
22	O	306/368 (83%)	299 (98%)	7 (2%)	44	63
23	P	384/415 (92%)	384 (100%)	0	100	100
24	Q	387/391 (99%)	362 (94%)	25 (6%)	15	37
25	R	342/379 (90%)	333 (97%)	9 (3%)	40	60
26	S	349/489 (71%)	348 (100%)	1 (0%)	86	84
27	T	250/256 (98%)	247 (99%)	3 (1%)	63	73
28	U	232/308 (75%)	232 (100%)	0	100	100
29	V	211/268 (79%)	211 (100%)	0	100	100
30	W	171/230 (74%)	170 (99%)	1 (1%)	78	80
31	X	116/144 (81%)	116 (100%)	0	100	100
32	Y	18/81 (22%)	18 (100%)	0	100	100
33	Z	606/850 (71%)	588 (97%)	18 (3%)	36	57
All	All	11247/13054 (86%)	11162 (99%)	85 (1%)	70	77

All (85) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
14	G	129	VAL
15	H	95	HIS
15	H	97	LEU
15	H	98	GLN
15	H	254	THR
16	I	146	ILE
16	I	279	LEU
16	I	280	ILE
17	J	131	ASP

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Mol	Chain	Res	Type
18	K	245	LYS
18	K	342	SER
18	K	343	LEU
18	K	344	ARG
18	K	362	LEU
19	L	254	LYS
19	L	258	GLU
19	L	259	SER
20	M	332	VAL
21	N	174	LEU
21	N	176	GLN
22	O	97	LYS
22	O	130	ASP
22	O	139	LEU
22	O	140	LYS
22	O	142	ASP
22	O	356	ARG
22	O	357	ILE
24	Q	309	ARG
24	Q	341	THR
24	Q	349	LYS
24	Q	350	ILE
24	Q	351	ILE
24	Q	352	GLU
24	Q	354	PHE
24	Q	355	GLU
24	Q	356	CYS
24	Q	372	GLN
24	Q	374	GLU
24	Q	378	SER
24	Q	380	MET
24	Q	381	ILE
24	Q	382	LEU
24	Q	384	LYS
24	Q	385	ILE
24	Q	386	PHE
24	Q	390	LEU
24	Q	396	TRP
24	Q	397	LEU
24	Q	398	TYR
24	Q	400	TYR
24	Q	402	THR

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Mol	Chain	Res	Type
24	Q	404	ASN
25	R	148	ASP
25	R	199	GLU
25	R	200	LYS
25	R	263	ARG
25	R	336	LYS
25	R	390	THR
25	R	392	ARG
25	R	396	LYS
25	R	399	GLN
26	S	179	ILE
27	T	251	HIS
27	T	252	GLU
27	T	256	LYS
30	W	68	GLU
33	Z	214	HIS
33	Z	217	GLU
33	Z	273	LEU
33	Z	275	GLN
33	Z	277	GLU
33	Z	293	MET
33	Z	365	SER
33	Z	366	LYS
33	Z	367	SER
33	Z	583	ASP
33	Z	605	SER
33	Z	757	SER
33	Z	758	LEU
33	Z	759	ARG
33	Z	761	PHE
33	Z	790	MET
33	Z	959	HIS
33	Z	962	ARG
7	1	108	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (232) such sidechains are listed below:

Mol	Chain	Res	Type
2	2	51	ASN
2	2	70	ASN
2	2	153	GLN
2	2	246	GLN

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Mol	Chain	Res	Type
3	3	125	ASN
3	3	139	HIS
3	3	164	ASN
3	3	176	HIS
3	3	180	GLN
4	4	59	ASN
4	4	95	HIS
4	4	115	HIS
4	4	122	HIS
4	4	143	HIS
4	4	201	ASN
5	5	72	ASN
5	5	89	GLN
6	6	37	GLN
6	6	55	GLN
6	6	65	GLN
6	6	118	GLN
6	6	146	HIS
6	6	191	GLN
7	7	141	HIS
7	7	164	GLN
7	7	251	ASN
7	7	283	ASN
1	8	177	ASN
2	9	51	ASN
2	9	70	ASN
2	9	153	GLN
2	9	246	GLN
8	A	92	ASN
8	A	123	ASN
9	B	190	HIS
10	C	21	GLN
10	C	31	HIS
10	C	59	GLN
10	C	94	HIS
10	C	96	GLN
10	C	103	ASN
10	C	120	GLN
10	C	147	GLN
11	D	16	HIS
11	D	19	GLN
11	D	94	GLN

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Mol	Chain	Res	Type
12	E	23	GLN
12	E	91	HIS
12	E	114	GLN
12	E	147	HIS
12	E	215	ASN
12	E	233	ASN
13	F	31	GLN
13	F	119	ASN
13	F	148	GLN
13	F	199	GLN
14	G	23	GLN
14	G	62	GLN
14	G	90	ASN
14	G	121	GLN
14	G	127	ASN
14	G	237	GLN
15	H	95	HIS
15	H	98	GLN
15	H	148	ASN
15	H	151	GLN
15	H	265	ASN
15	H	281	GLN
15	H	327	ASN
15	H	339	GLN
16	I	330	GLN
16	I	338	ASN
16	I	379	ASN
16	I	420	GLN
16	I	437	GLN
17	J	103	ASN
17	J	111	GLN
17	J	156	GLN
17	J	205	HIS
17	J	277	ASN
17	J	393	ASN
18	K	182	GLN
18	K	244	HIS
18	K	285	GLN
18	K	293	GLN
18	K	302	GLN
18	K	404	GLN
19	L	67	HIS

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Mol	Chain	Res	Type
19	L	103	GLN
19	L	169	ASN
19	L	311	GLN
20	M	250	GLN
20	M	310	ASN
20	M	311	GLN
20	M	359	GLN
20	M	364	HIS
20	M	377	GLN
20	M	405	ASN
21	N	176	GLN
21	N	182	ASN
21	N	226	ASN
21	N	308	ASN
21	N	360	GLN
21	N	378	ASN
21	N	614	ASN
21	N	666	GLN
21	N	688	ASN
21	N	703	GLN
21	N	716	GLN
21	N	747	HIS
21	N	870	ASN
21	N	922	GLN
22	O	75	GLN
22	O	236	HIS
22	O	256	ASN
22	O	318	HIS
22	O	323	ASN
22	O	326	HIS
22	O	354	GLN
22	O	374	ASN
22	O	376	GLN
23	P	113	ASN
23	P	242	GLN
23	P	288	ASN
23	P	289	ASN
23	P	349	ASN
23	P	410	GLN
23	P	418	ASN
23	P	440	HIS
24	Q	80	HIS

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Mol	Chain	Res	Type
24	Q	114	GLN
24	Q	135	HIS
24	Q	226	HIS
24	Q	283	ASN
24	Q	308	ASN
24	Q	336	ASN
24	Q	372	GLN
25	R	76	GLN
25	R	100	ASN
25	R	114	ASN
25	R	130	GLN
25	R	136	ASN
25	R	323	ASN
25	R	366	ASN
25	R	374	ASN
25	R	391	ASN
25	R	399	GLN
26	S	20	HIS
26	S	172	ASN
26	S	235	ASN
26	S	314	ASN
26	S	321	GLN
26	S	337	ASN
26	S	339	GLN
26	S	458	GLN
26	S	459	GLN
27	T	37	ASN
27	T	135	ASN
27	T	258	ASN
28	U	71	ASN
28	U	117	ASN
28	U	127	GLN
28	U	192	ASN
28	U	193	GLN
28	U	223	HIS
28	U	230	GLN
28	U	259	ASN
28	U	297	GLN
28	U	298	ASN
29	V	190	HIS
30	W	18	ASN
30	W	29	GLN

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Mol	Chain	Res	Type
30	W	38	GLN
30	W	44	ASN
30	W	143	ASN
30	W	149	GLN
31	X	105	ASN
33	Z	132	HIS
33	Z	168	GLN
33	Z	240	ASN
33	Z	364	ASN
33	Z	396	ASN
33	Z	435	GLN
33	Z	475	GLN
33	Z	618	GLN
33	Z	763	HIS
33	Z	789	GLN
33	Z	833	GLN
33	Z	926	ASN
8	a	123	ASN
9	b	190	HIS
10	c	21	GLN
10	c	31	HIS
10	c	94	HIS
10	c	103	ASN
10	c	120	GLN
10	c	147	GLN
11	d	16	HIS
11	d	19	GLN
11	d	118	GLN
11	d	162	GLN
12	e	23	GLN
12	e	91	HIS
12	e	108	ASN
12	e	114	GLN
12	e	147	HIS
12	e	215	ASN
12	e	233	ASN
13	f	119	ASN
13	f	148	GLN
13	f	199	GLN
14	g	23	GLN
14	g	62	GLN
14	g	90	ASN

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Mol	Chain	Res	Type
14	g	237	GLN
3	h	125	ASN
3	h	164	ASN
3	h	180	GLN
4	i	115	HIS
4	i	122	HIS
4	i	143	HIS
4	i	194	ASN
5	j	72	ASN
6	k	37	GLN
6	k	55	GLN
6	k	118	GLN
6	k	146	HIS
7	l	137	GLN
7	l	141	HIS
7	l	164	GLN
7	l	251	ASN
7	l	283	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
25	R	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	R	330:VAL	C	331:ARG	N	1.69

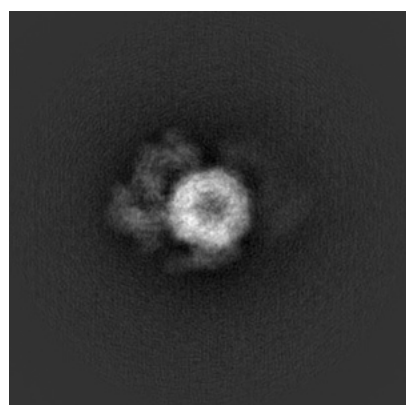
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-6575. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

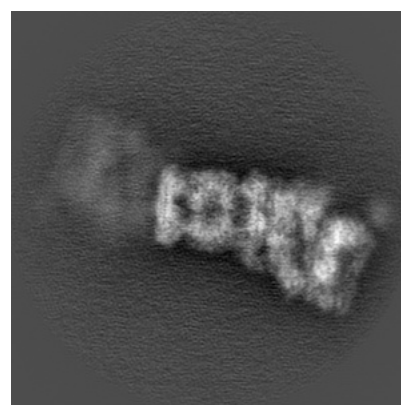
6.1.1 Primary map



X



Y

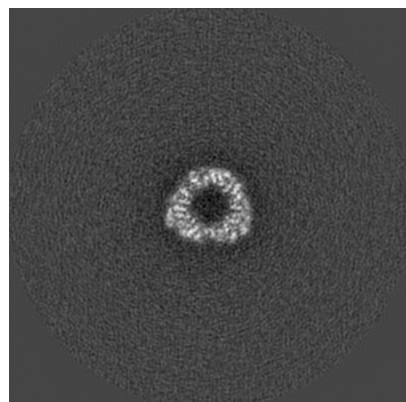


Z

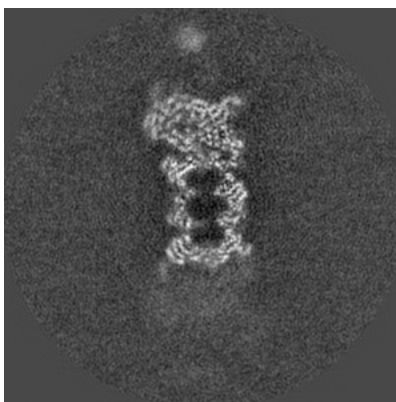
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

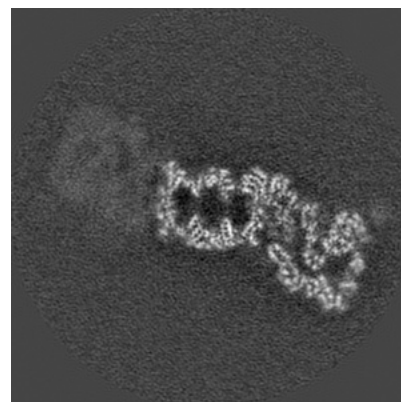
6.2.1 Primary map



X Index: 128



Y Index: 128

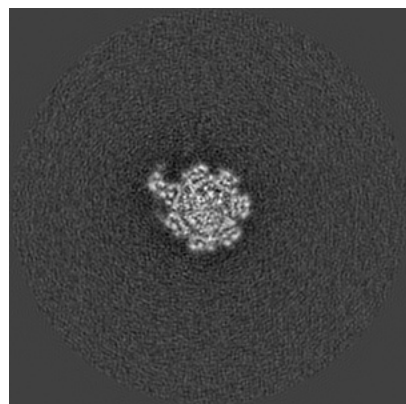


Z Index: 128

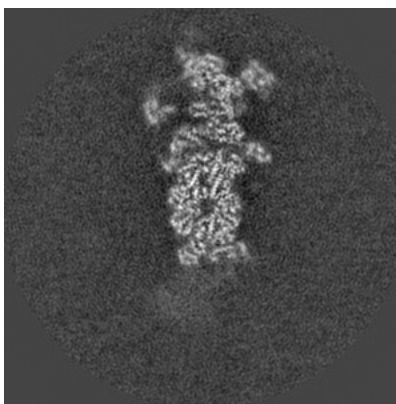
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

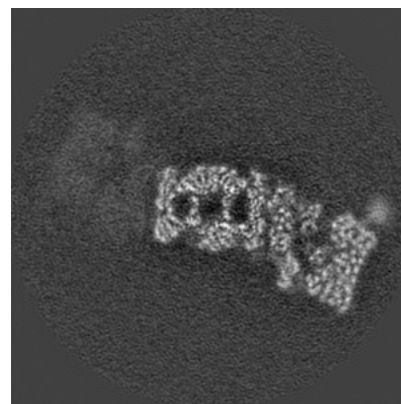
6.3.1 Primary map



X Index: 155



Y Index: 116

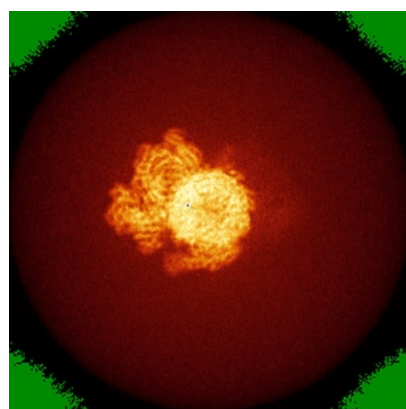


Z Index: 122

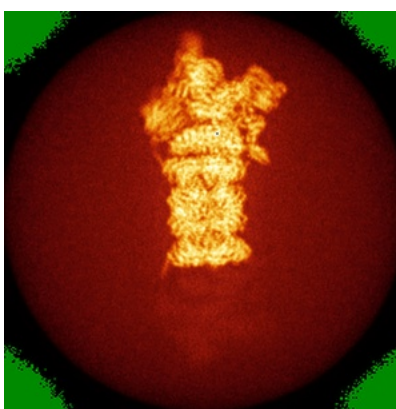
The images above show the largest variance slices of the map in three orthogonal directions.

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

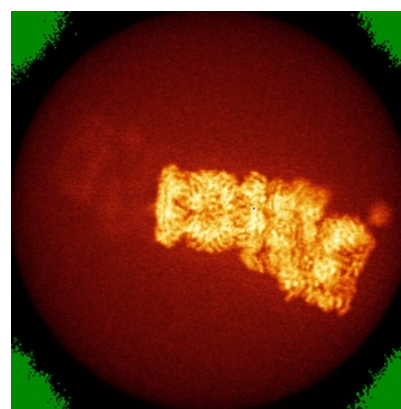
6.4.1 Primary map



X



Y



Z

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 0.095. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

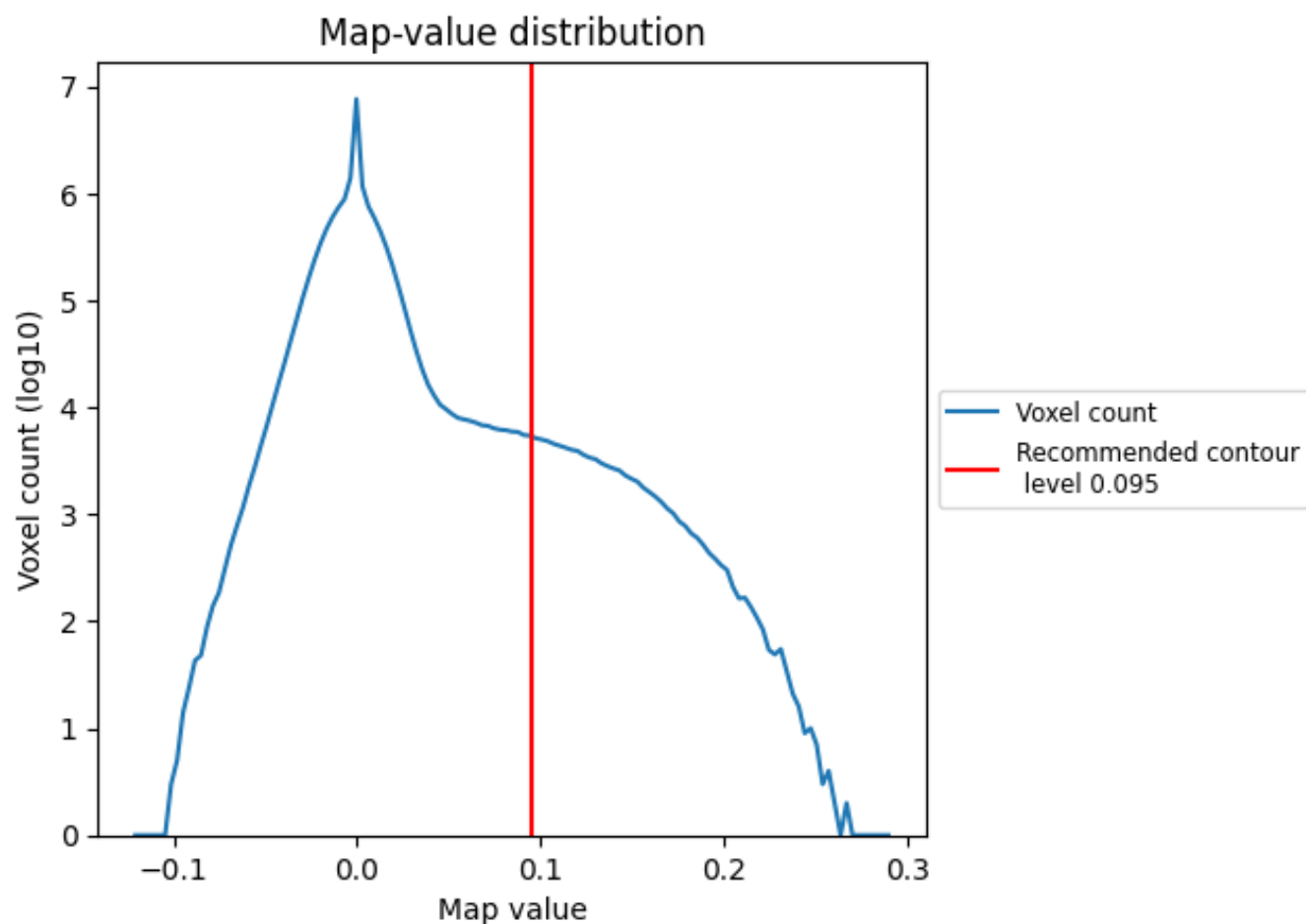
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

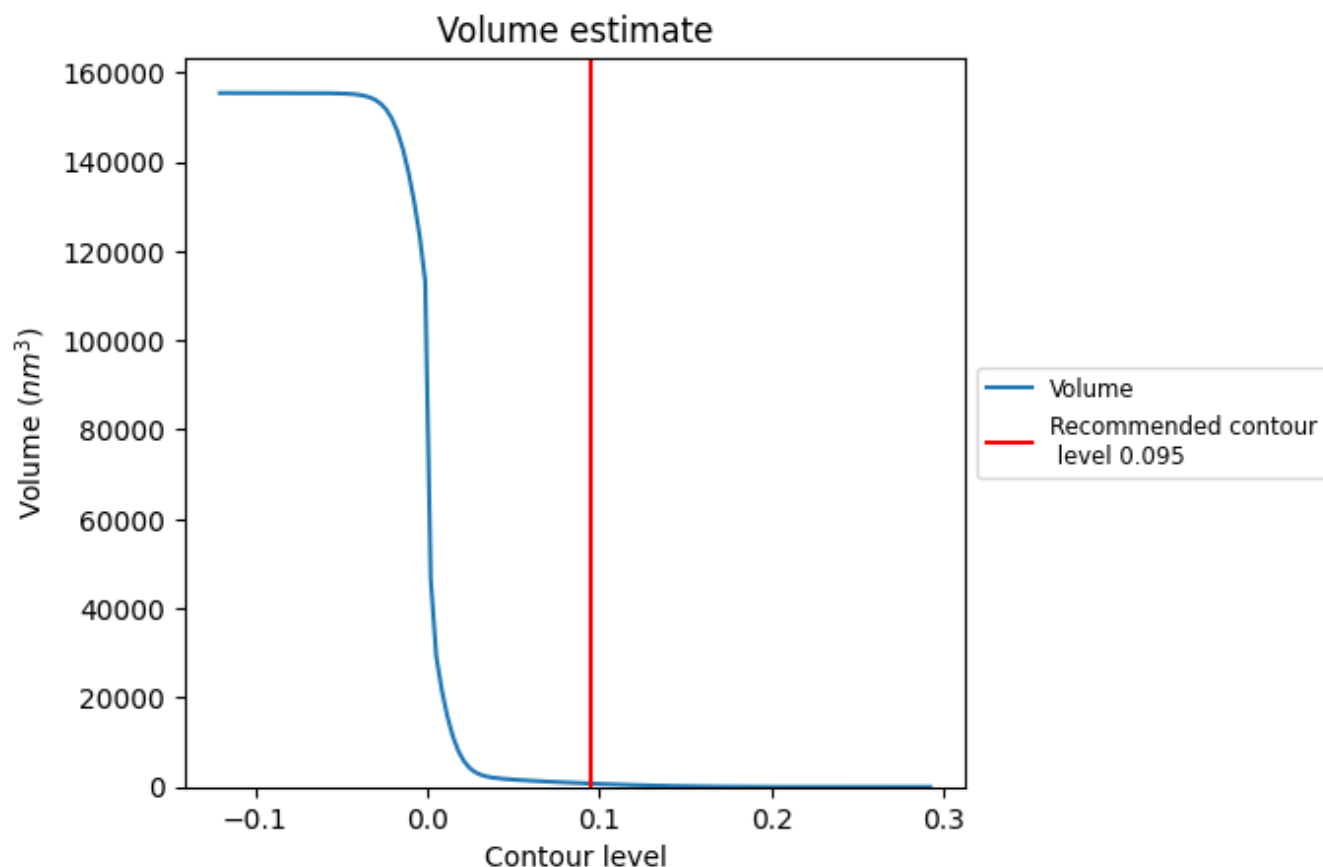
This section contains the results of statistical analysis of the map.

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.

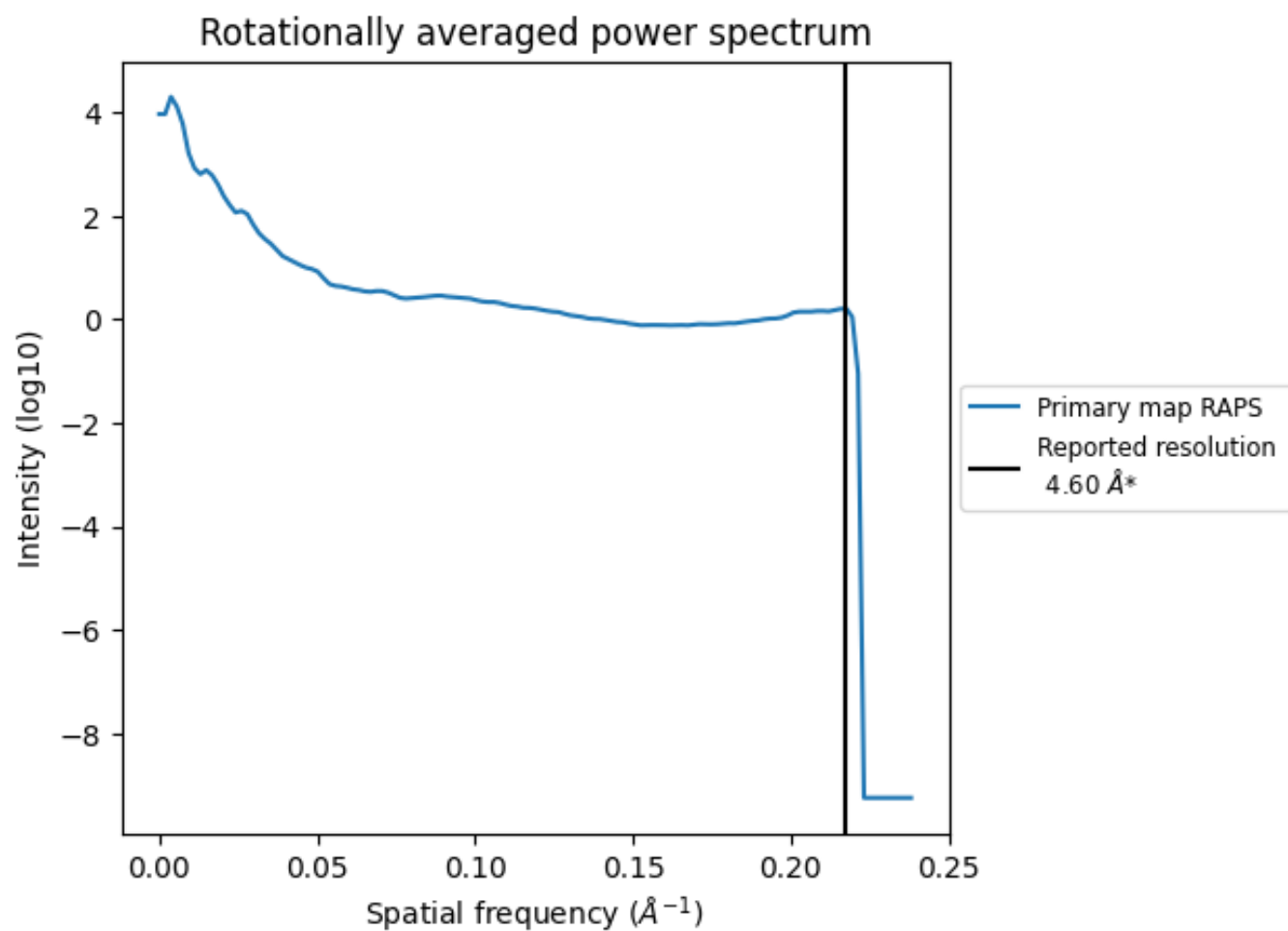
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 758 nm³; this corresponds to an approximate mass of 685 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.217 Å⁻¹

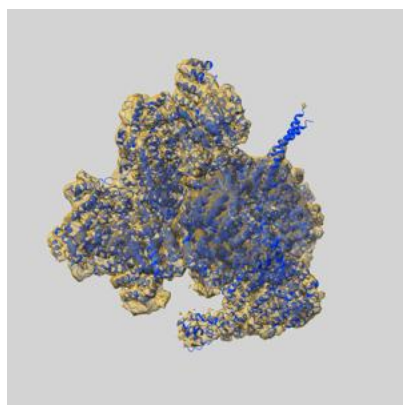
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

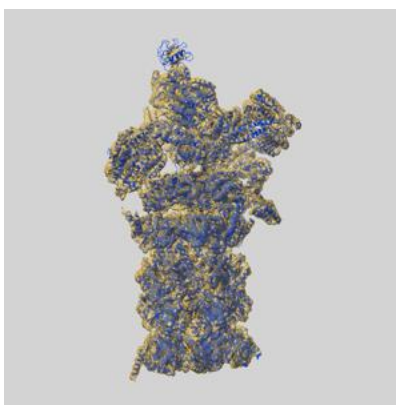
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-6575 and PDB model 3JCP. Per-residue inclusion information can be found in section [3](#) on page [11](#).

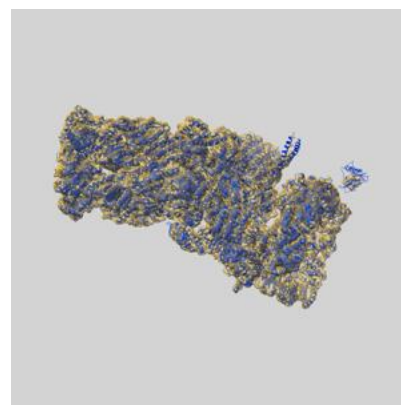
9.1 Map-model overlay [i](#)



X



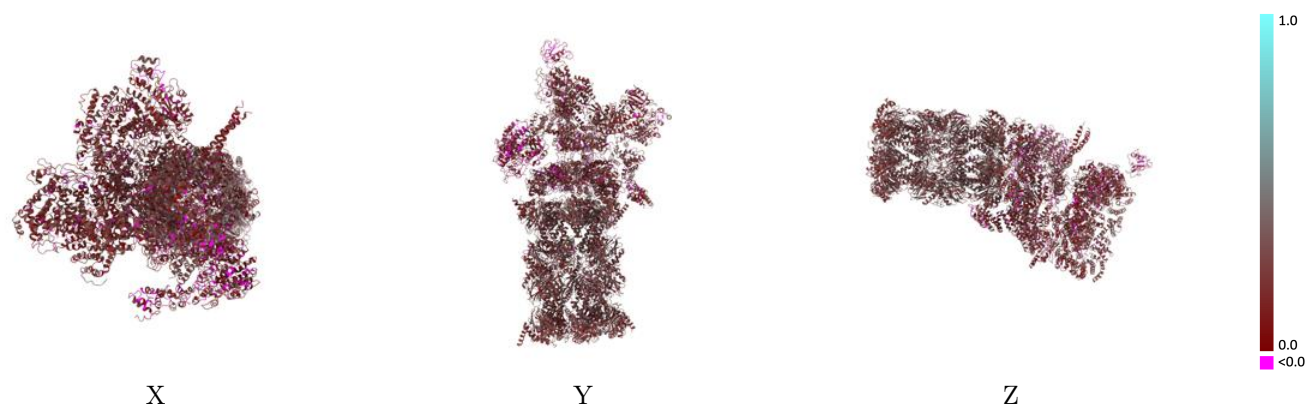
Y



Z

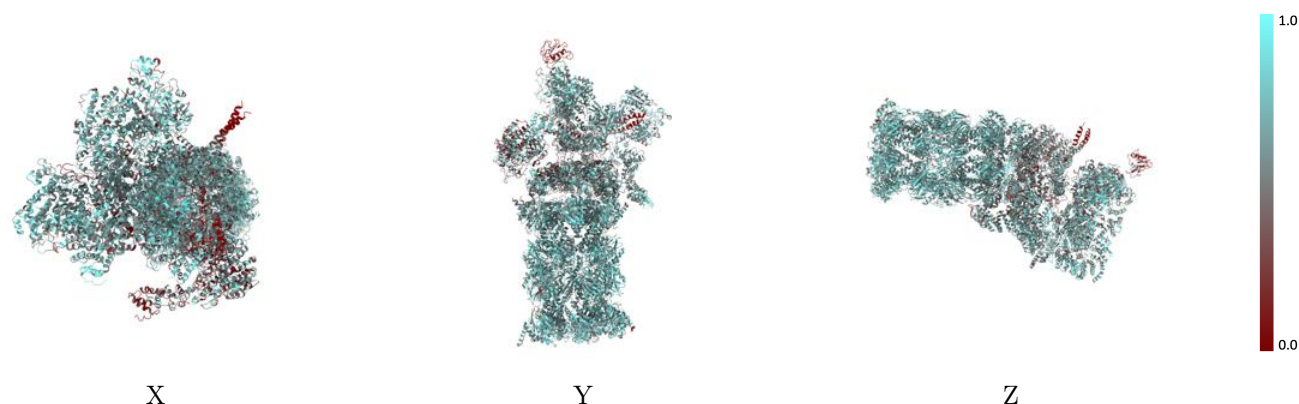
The images above show the 3D surface view of the map at the recommended contour level 0.095 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



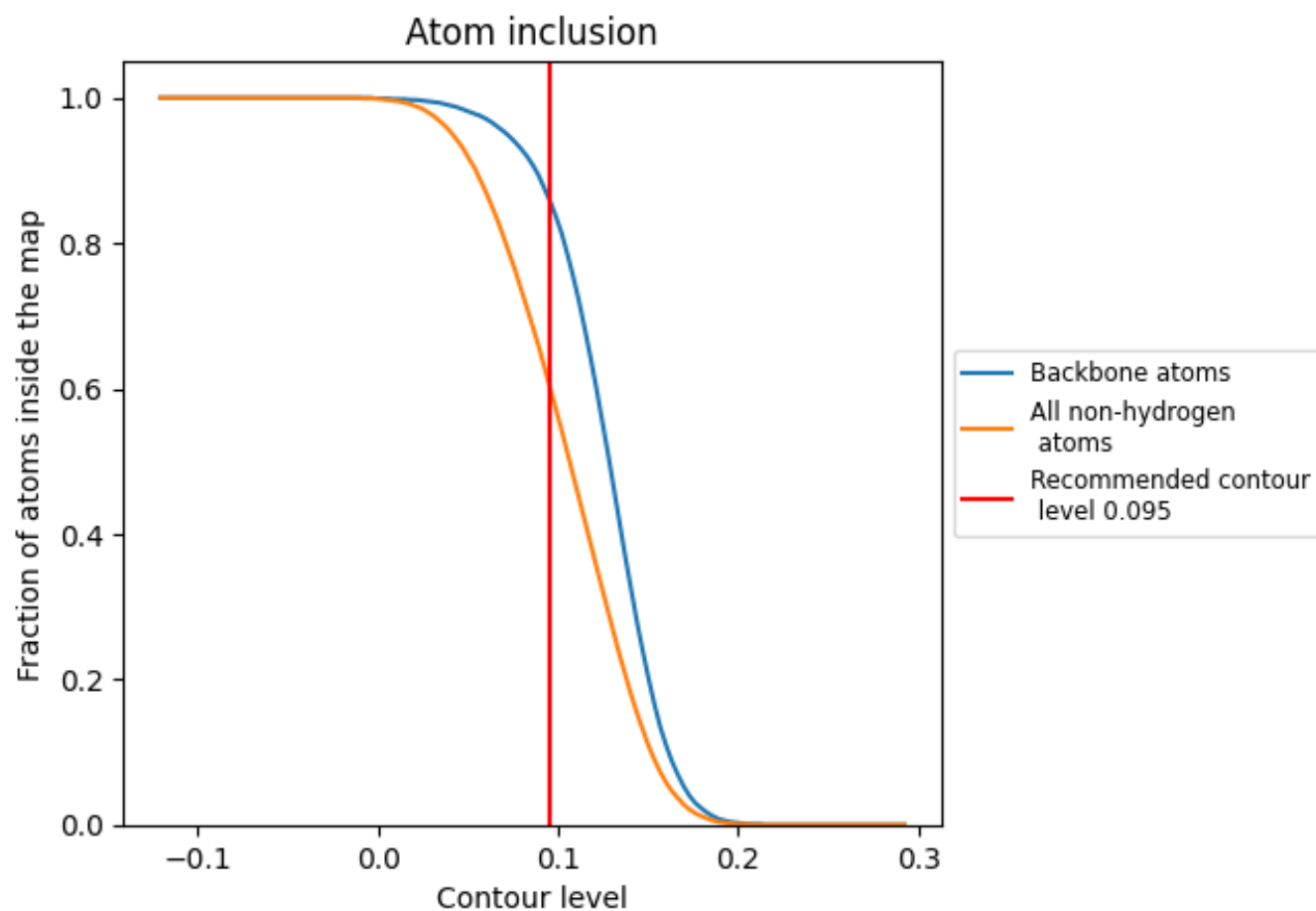
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.095).

9.4 Atom inclusion [i](#)



At the recommended contour level, 86% of all backbone atoms, 61% 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 (0.095) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6060	 0.2320
1	 0.6860	 0.2810
2	 0.7010	 0.2900
3	 0.7000	 0.2710
4	 0.6700	 0.2910
5	 0.6580	 0.2800
6	 0.6540	 0.2870
7	 0.7200	 0.2800
8	 0.7010	 0.2930
9	 0.6950	 0.2810
A	 0.6730	 0.2680
B	 0.6500	 0.2630
C	 0.6620	 0.2530
D	 0.6620	 0.2550
E	 0.6550	 0.2470
F	 0.6870	 0.2530
G	 0.6860	 0.2620
H	 0.5420	 0.2040
I	 0.5020	 0.1970
J	 0.4720	 0.1920
K	 0.5220	 0.2180
L	 0.5290	 0.2170
M	 0.5310	 0.2080
N	 0.6350	 0.2160
O	 0.6170	 0.1860
P	 0.6190	 0.1910
Q	 0.5470	 0.1840
R	 0.5590	 0.1890
S	 0.6110	 0.1980
T	 0.5940	 0.1930
U	 0.6260	 0.2280
V	 0.5860	 0.2200
W	 0.6070	 0.1900
X	 0.1030	 0.0880
Y	 0.5290	 0.2170



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Chain	Atom inclusion	Q-score
Z	 0.4240	 0.1300
a	 0.6470	 0.2870
b	 0.6240	 0.2890
c	 0.6070	 0.2680
d	 0.6340	 0.2620
e	 0.6150	 0.2620
f	 0.6700	 0.2800
g	 0.6640	 0.2820
h	 0.6920	 0.2850
i	 0.6880	 0.3040
j	 0.6900	 0.2980
k	 0.6750	 0.2860
l	 0.7120	 0.2810