Full wwPDB EM Validation Report

Mar 25, 2026 – 06:03 AM UTC

PDB ID	:	3JCO / pdb_00003jco
EMDB ID	:	EMD-6574
Title	:	Structure of yeast 26S proteasome in M1 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	:	4.80 Å(reported)
Based on initial model	:	4CR4

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:

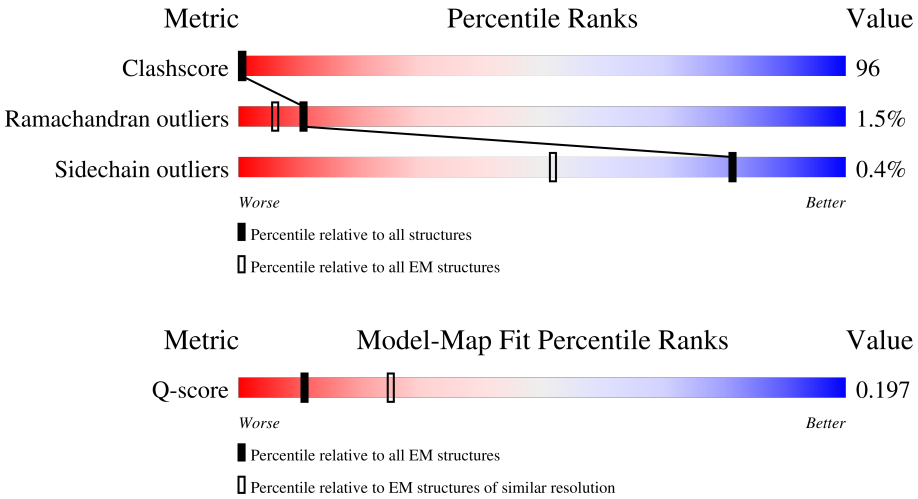
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 4.80 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	1575 (4.30 - 5.30)

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 <=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	11% 80% • 8%
1	8	241	5% 12% 79% • 8%
2	2	266	12% 74% • 12%
2	9	266	12% 74% • 12%

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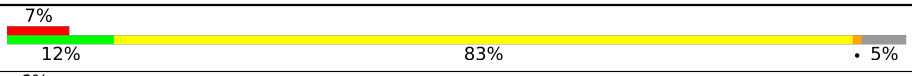
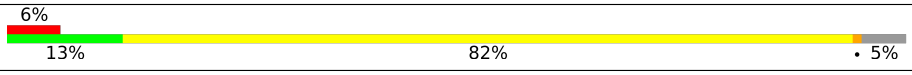
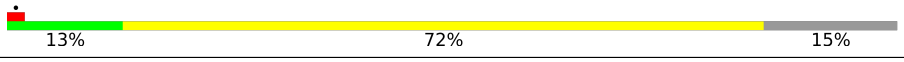
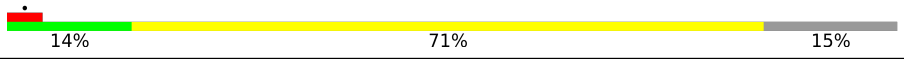
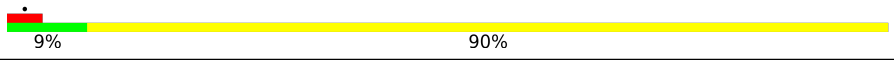
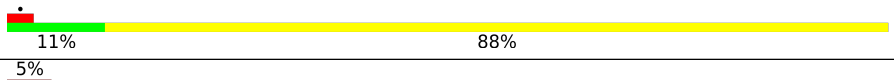
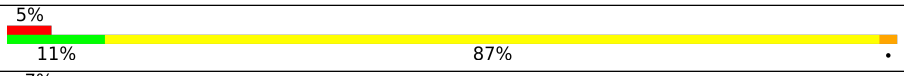
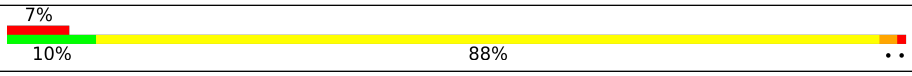
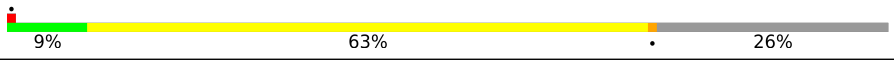
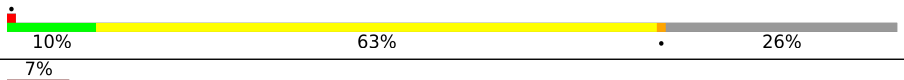
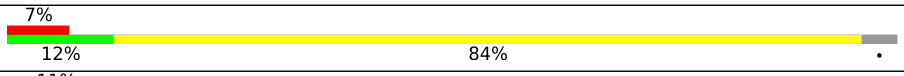
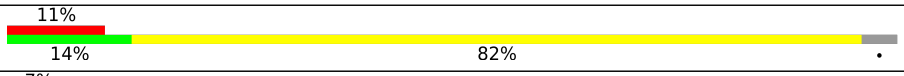
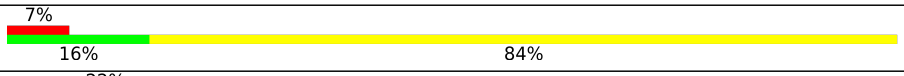
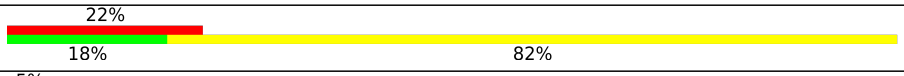
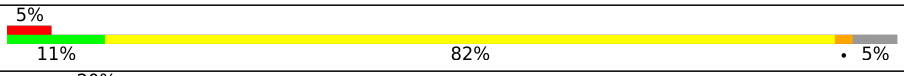
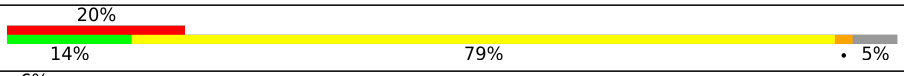
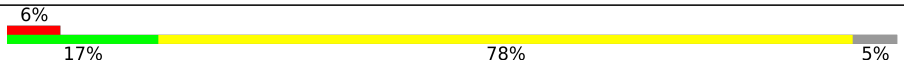
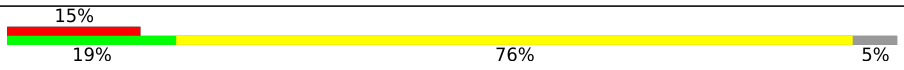
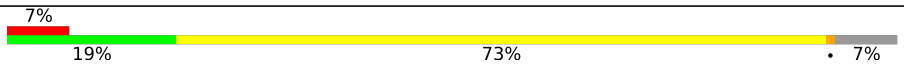
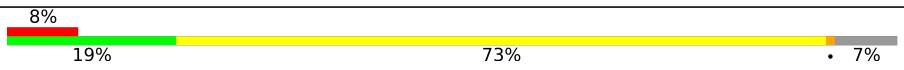
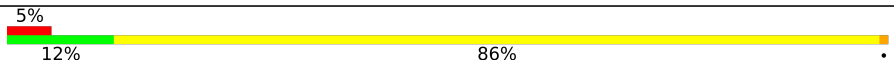
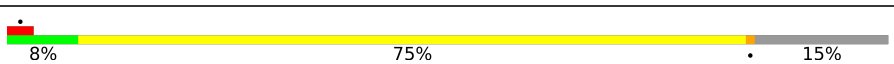
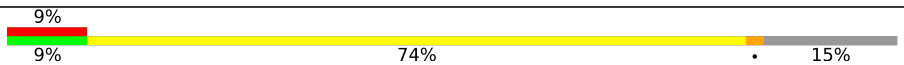
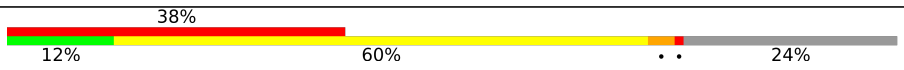
Mol	Chain	Length	Quality of chain
3	3	215	
3	h	215	
4	4	261	
4	i	261	
5	5	205	
5	j	205	
6	6	198	
6	k	198	
7	7	287	
7	l	287	
8	A	252	
8	a	252	
9	B	250	
9	b	250	
10	C	258	
10	c	258	
11	D	254	
11	d	254	
12	E	260	
12	e	260	
13	F	234	
13	f	234	
14	G	288	
14	g	288	
15	H	467	

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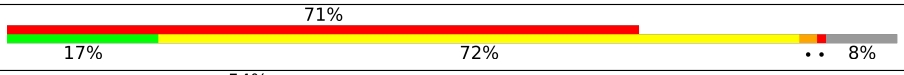
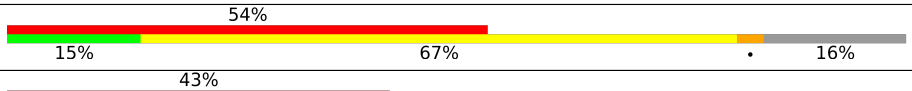
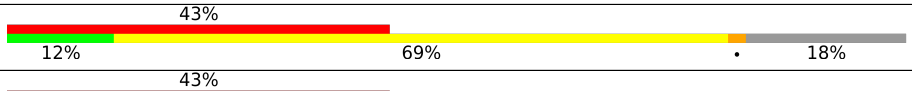
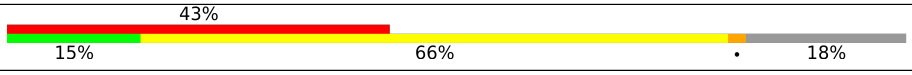
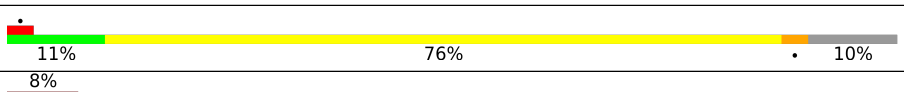
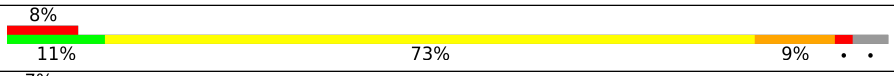
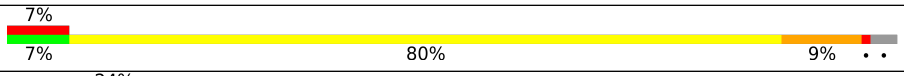
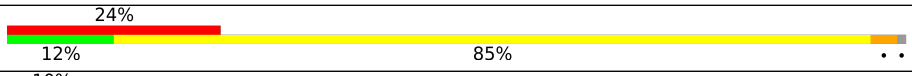
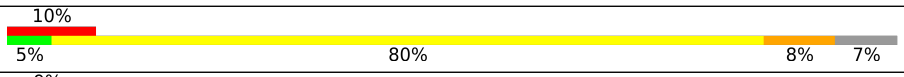
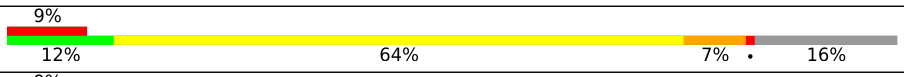
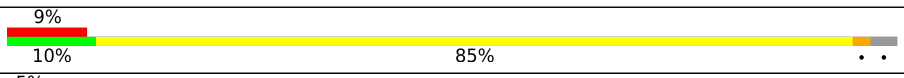
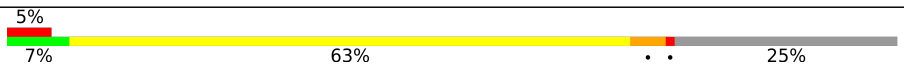
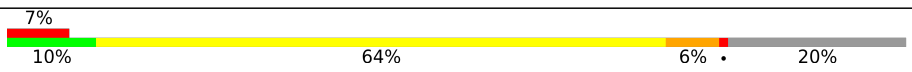
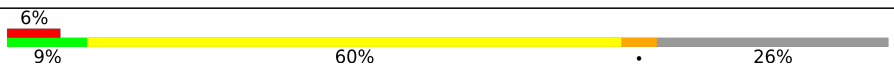
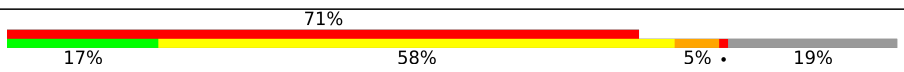
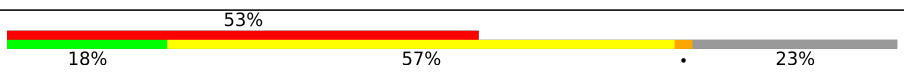
Mol	Chain	Length	Quality of chain
16	I	437	
17	J	405	
18	K	428	
19	L	437	
20	M	434	
21	N	945	
22	O	393	
23	P	445	
24	Q	434	
25	R	429	
26	S	523	
27	T	274	
28	U	338	
29	V	306	
30	W	268	
31	X	156	
32	Y	89	
33	Z	993	

2 Entry composition (i)

There are 33 unique types of molecules in this entry. The entry contains 104317 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
			1574	995	261	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
			1581	1010	258	305	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	356	Total	C	N	O	S	0	0
			2771	1744	496	516	15		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
16	I	325	Total	C	N	O	S	0	0
			2513	1573	424	503	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
			2928	1837	527	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
			2849	1788	506	545	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	849	Total	C	N	O	S	0	0
			6562	4174	1099	1261	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
			3083	1991	497	586	9		

- 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
			3471	2205	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
			3218	2051	527	630	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
			3357	2136	569	635	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
			2034	1291	350	387	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.

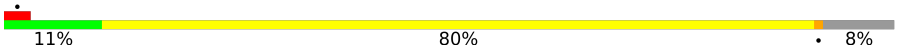
Mol	Chain	Residues	Atoms					AltConf	Trace
33	Z	763	Total	C	N	O	S	0	0
			5894	3744	966	1156	28		

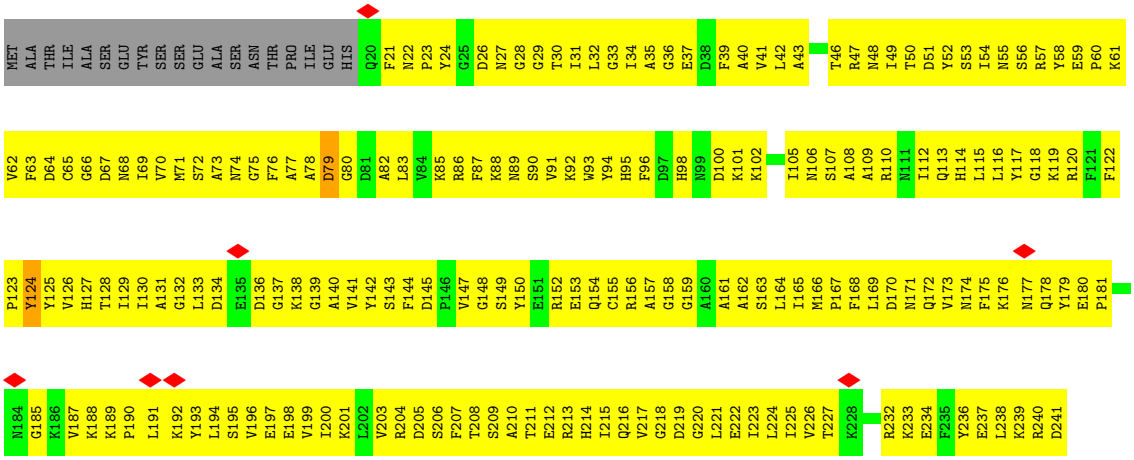
3 Residue-property plots (i)

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

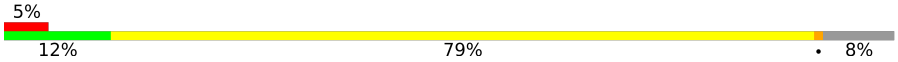
Chain 1:

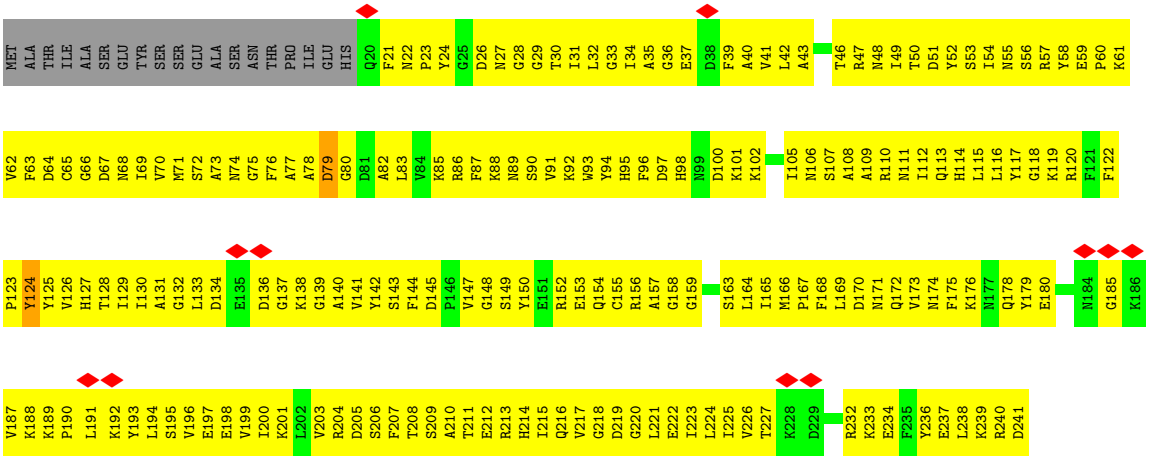




• Molecule 1: Proteasome subunit beta type-6

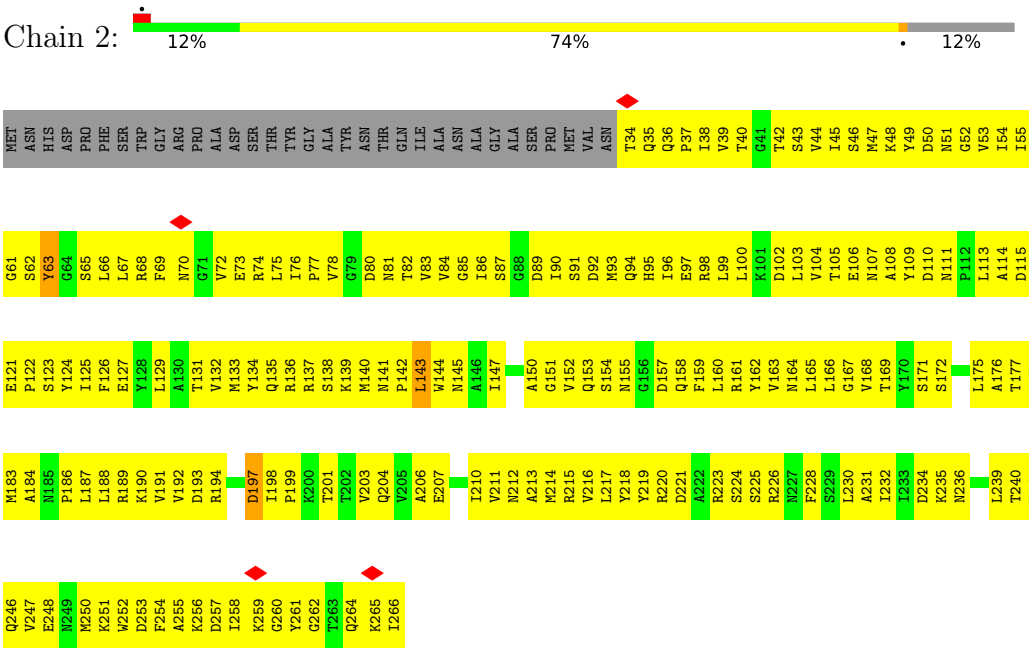
Chain 8:





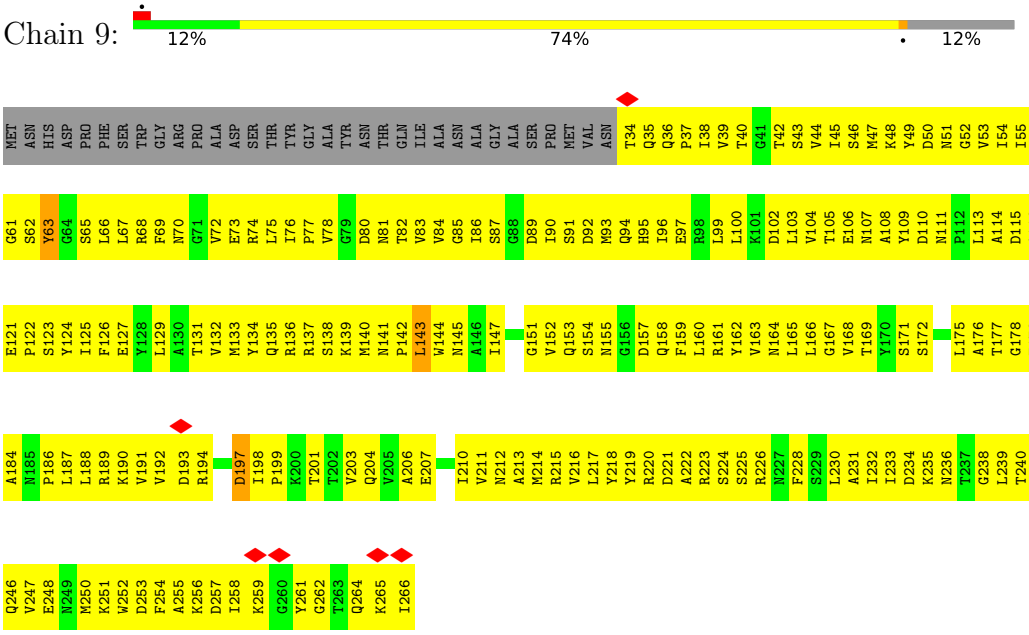
• Molecule 2: Proteasome subunit beta type-7

Chain 2:



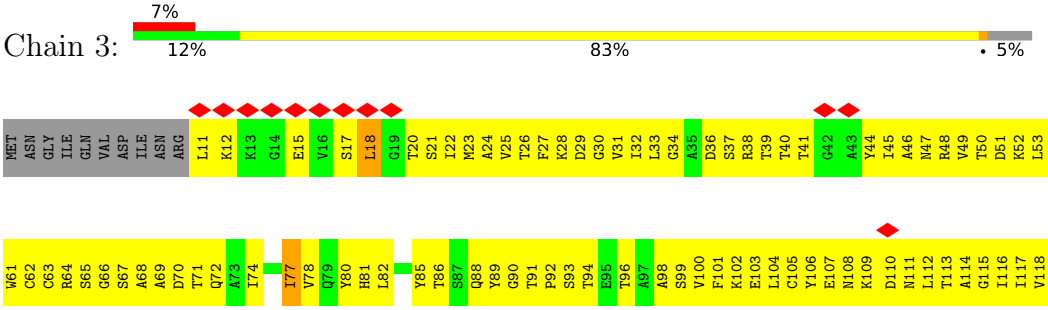
• Molecule 2: Proteasome subunit beta type-7

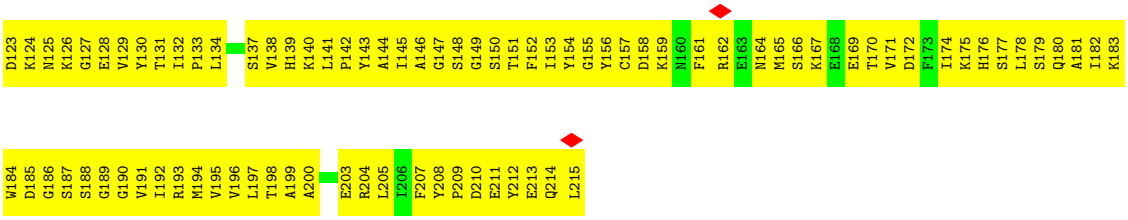
Chain 9:



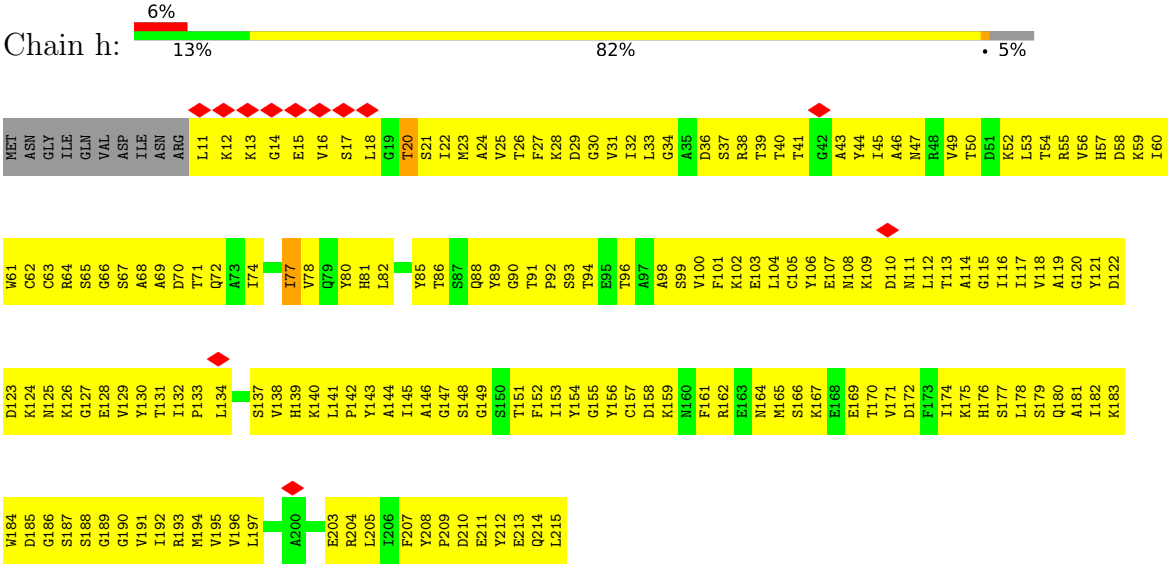
• Molecule 3: Proteasome subunit beta type-1

Chain 3:

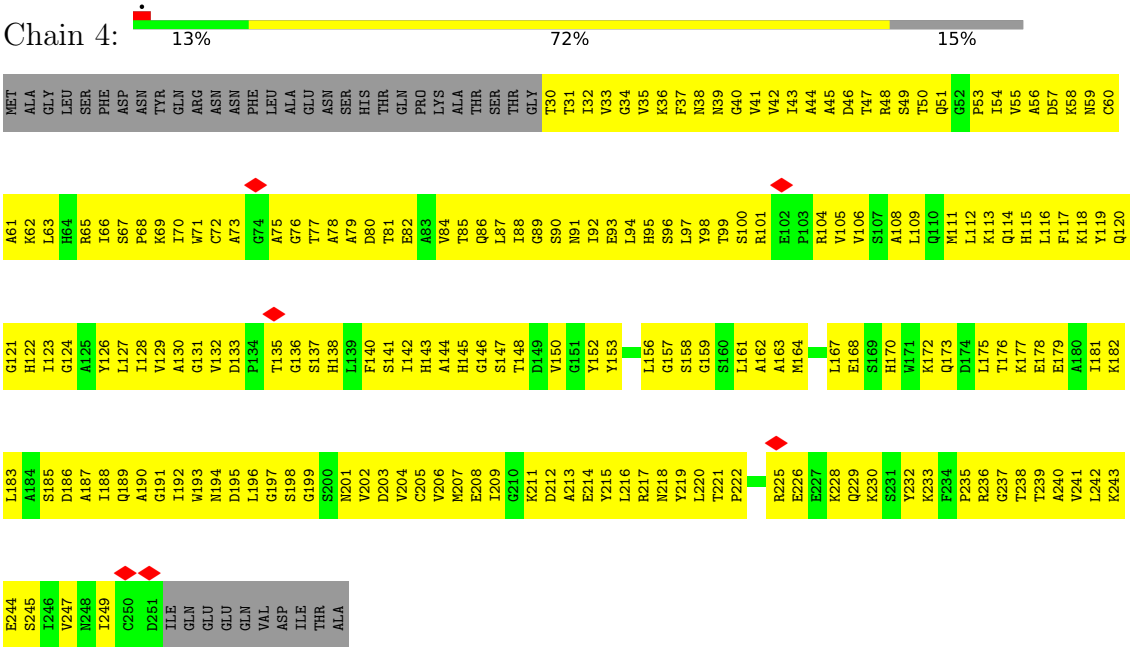




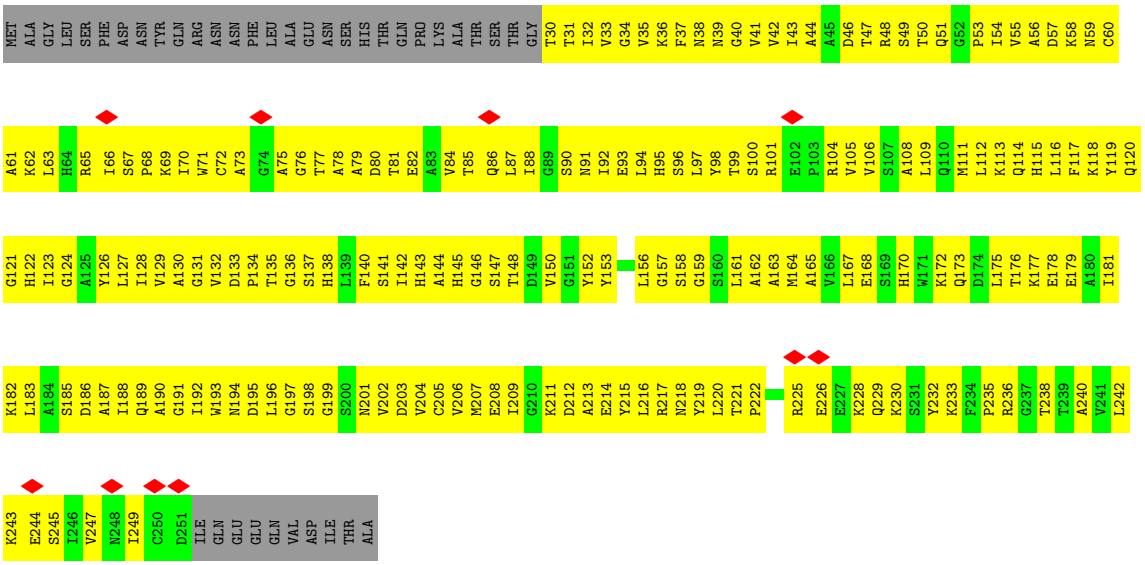
• Molecule 3: Proteasome subunit beta type-1



• Molecule 4: Proteasome subunit beta type-2

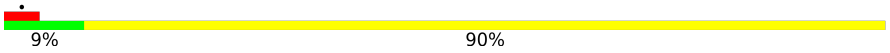


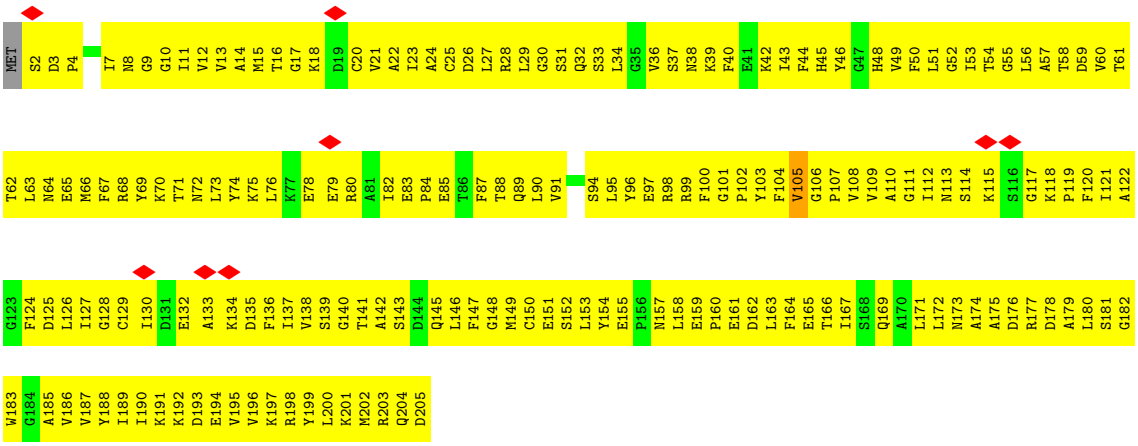
• Molecule 4: Proteasome subunit beta type-2



• Molecule 5: Proteasome subunit beta type-3

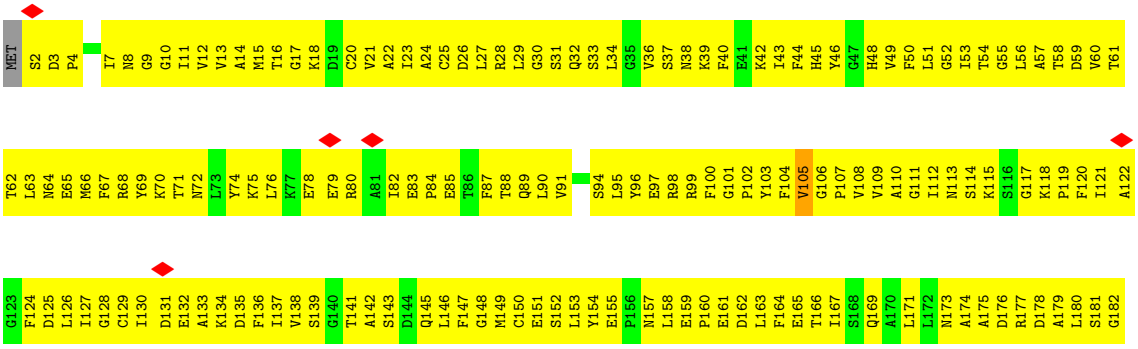
Chain 5:

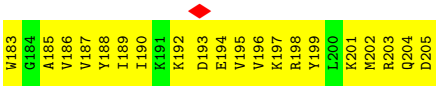




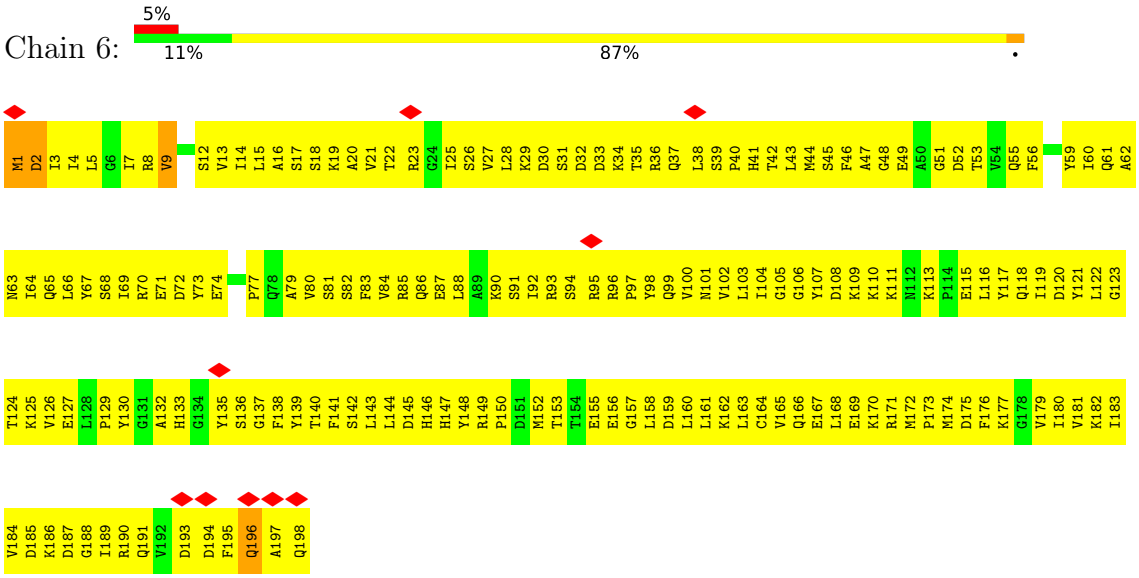
• Molecule 5: Proteasome subunit beta type-3

Chain j:

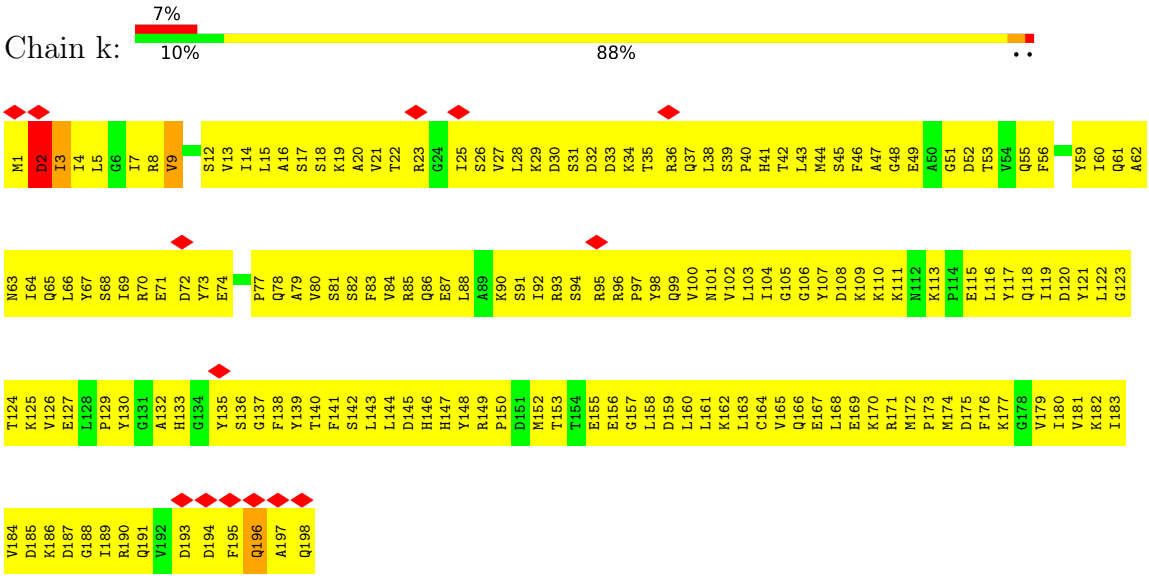




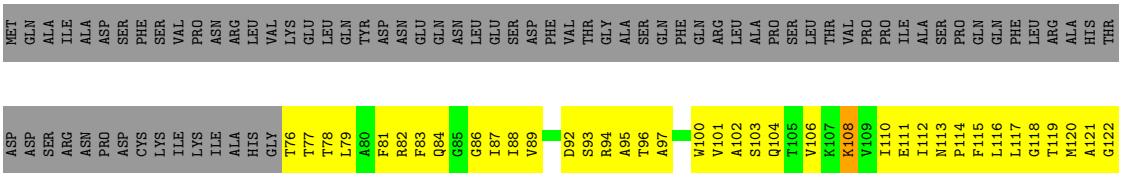
• Molecule 6: Proteasome subunit beta type-4

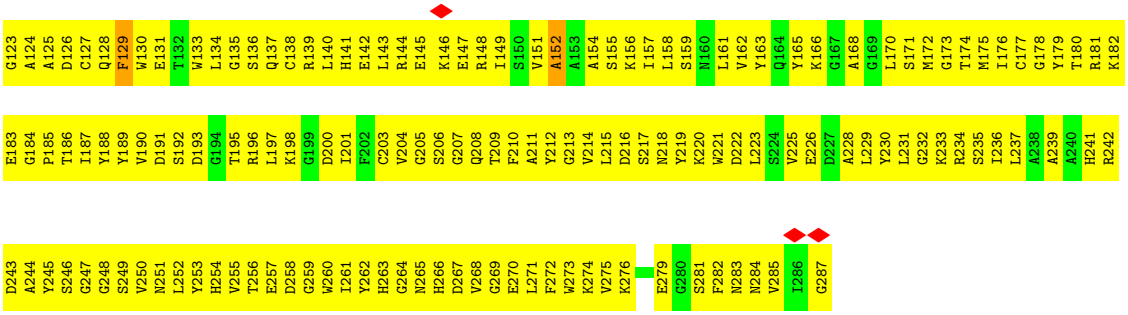


• Molecule 6: Proteasome subunit beta type-4



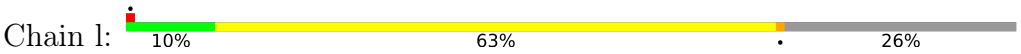
• Molecule 7: Proteasome subunit beta type-5

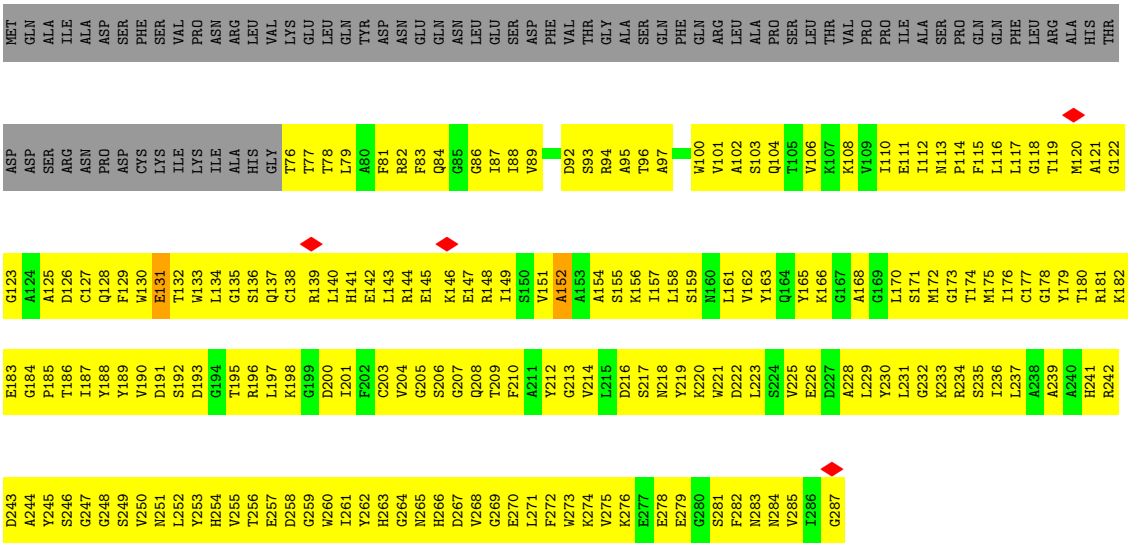




• Molecule 7: Proteasome subunit beta type-5

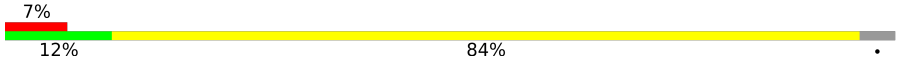
Chain l:

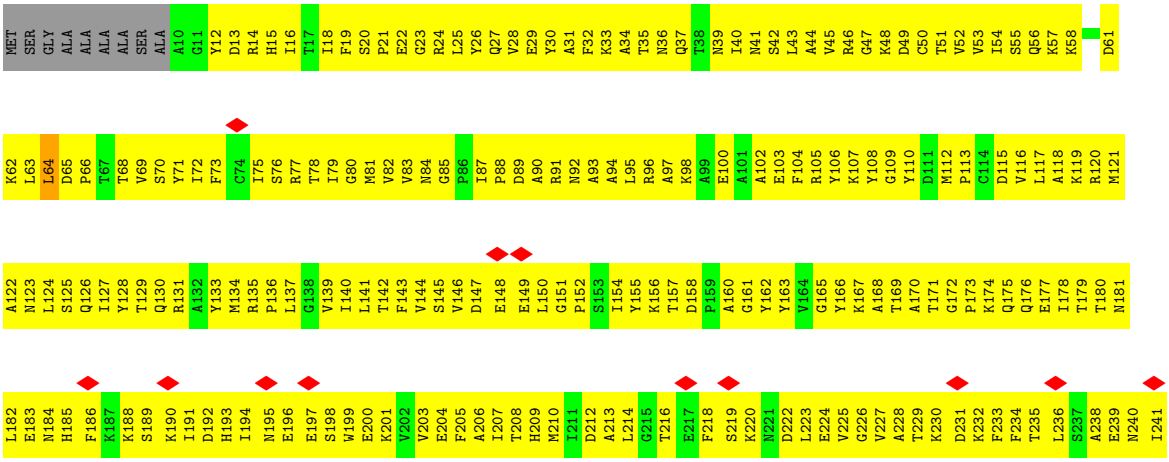


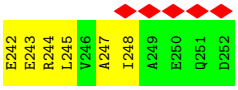


• Molecule 8: Proteasome subunit alpha type-1

Chain A:

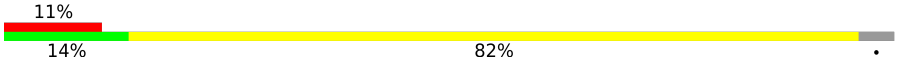


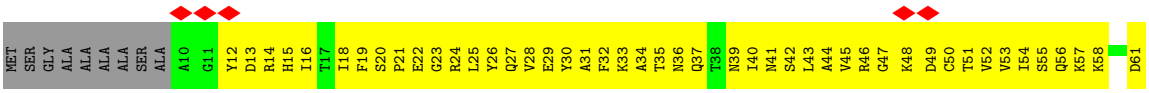


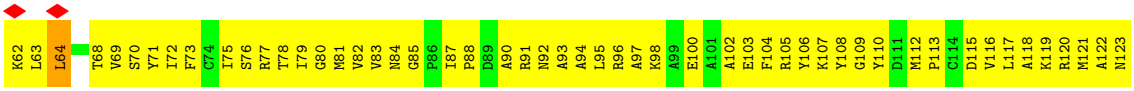


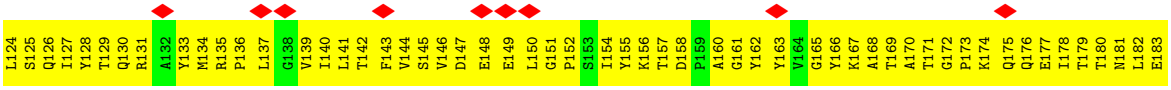
• Molecule 8: Proteasome subunit alpha type-1

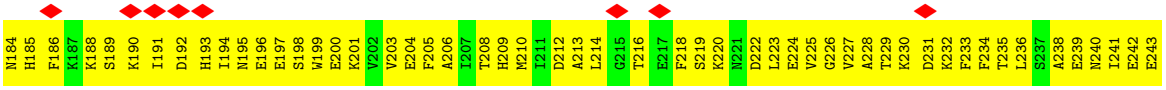
Chain a:

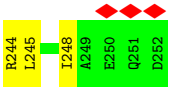






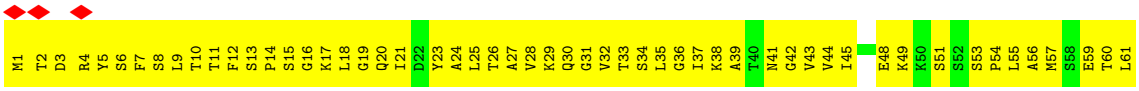


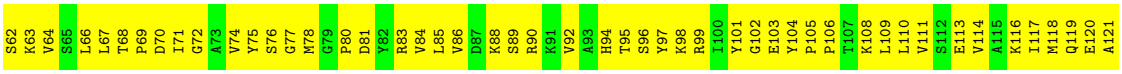


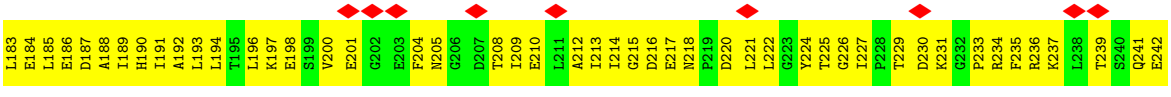


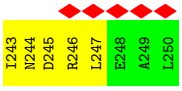
• Molecule 9: Proteasome subunit alpha type-2

Chain B:



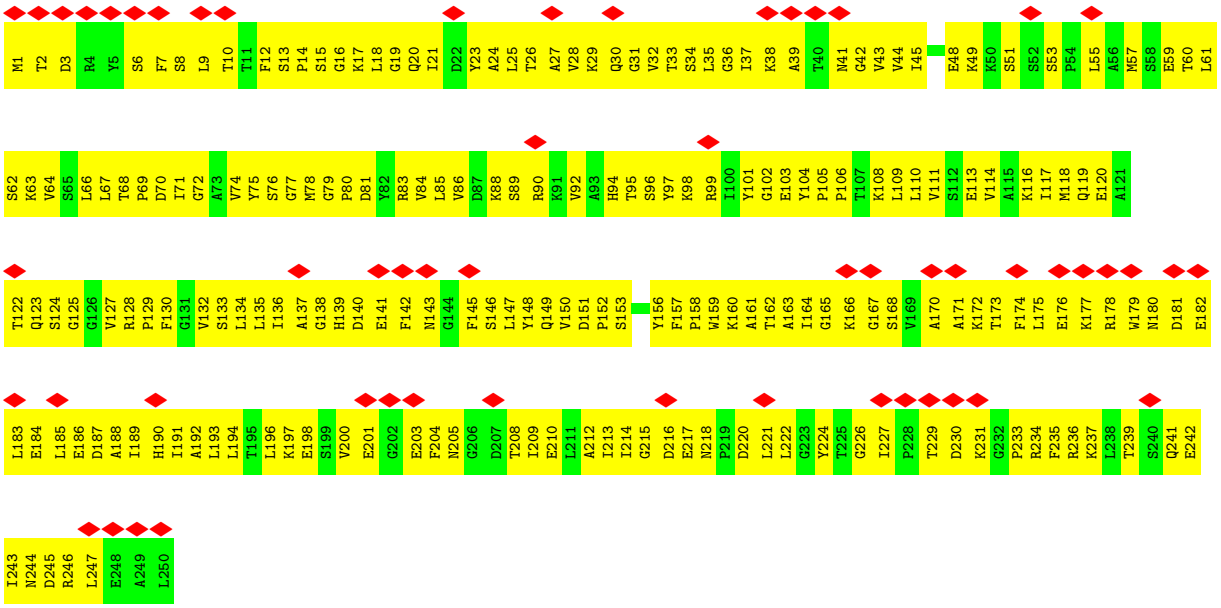






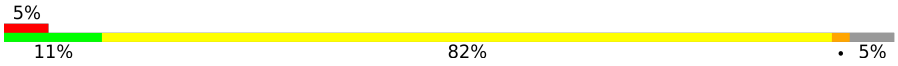
• Molecule 9: Proteasome subunit alpha type-2

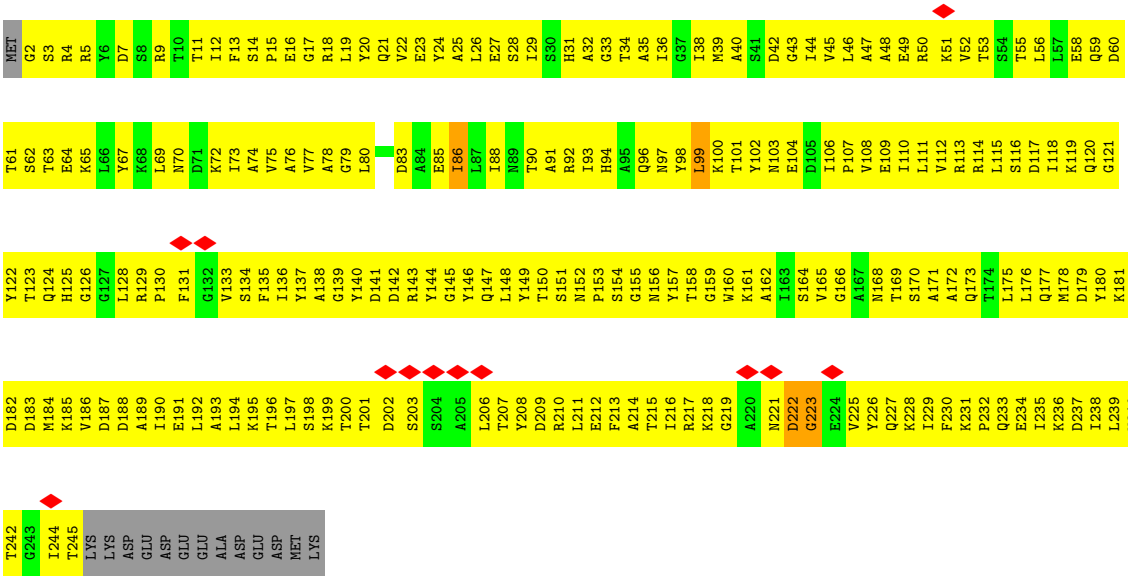
Chain b:



• Molecule 10: Proteasome subunit alpha type-3

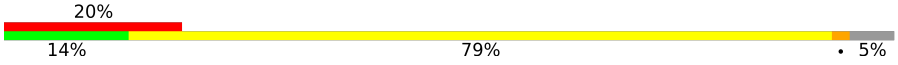
Chain C:

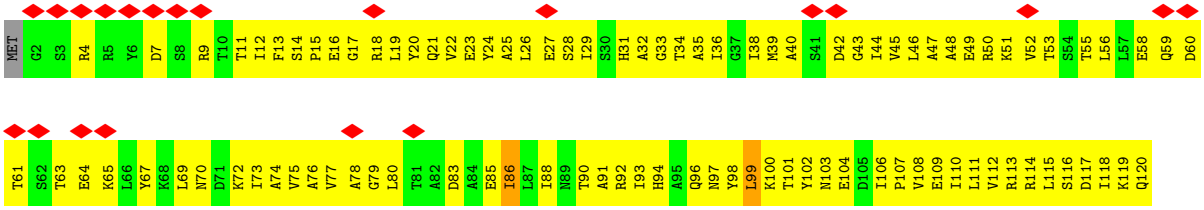


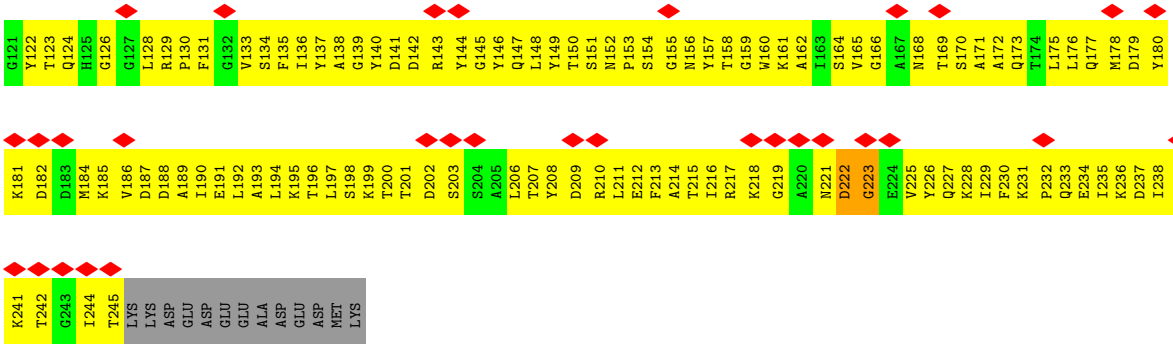


• Molecule 10: Proteasome subunit alpha type-3

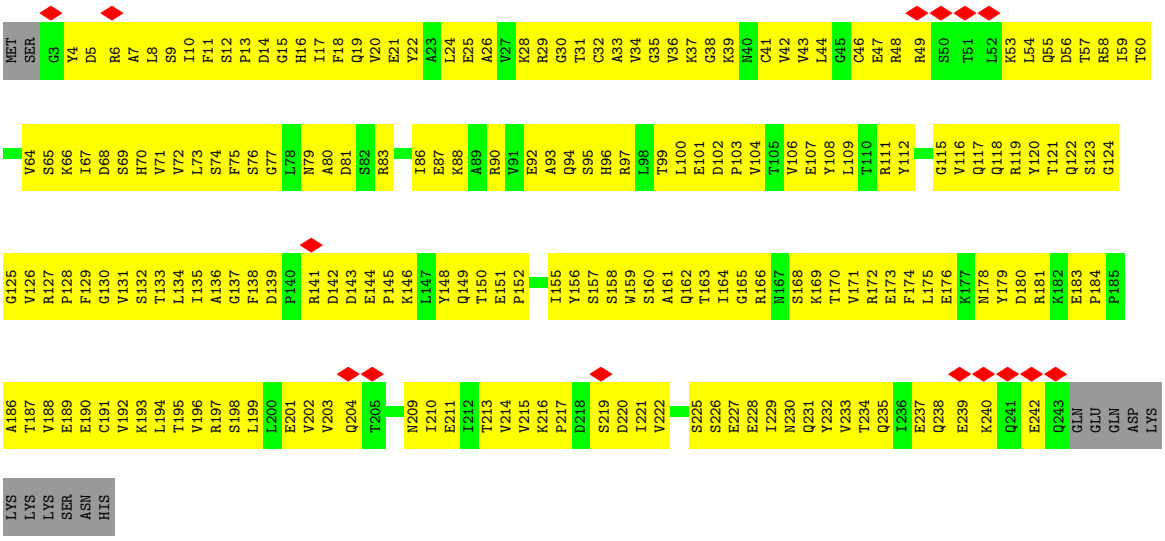
Chain c:



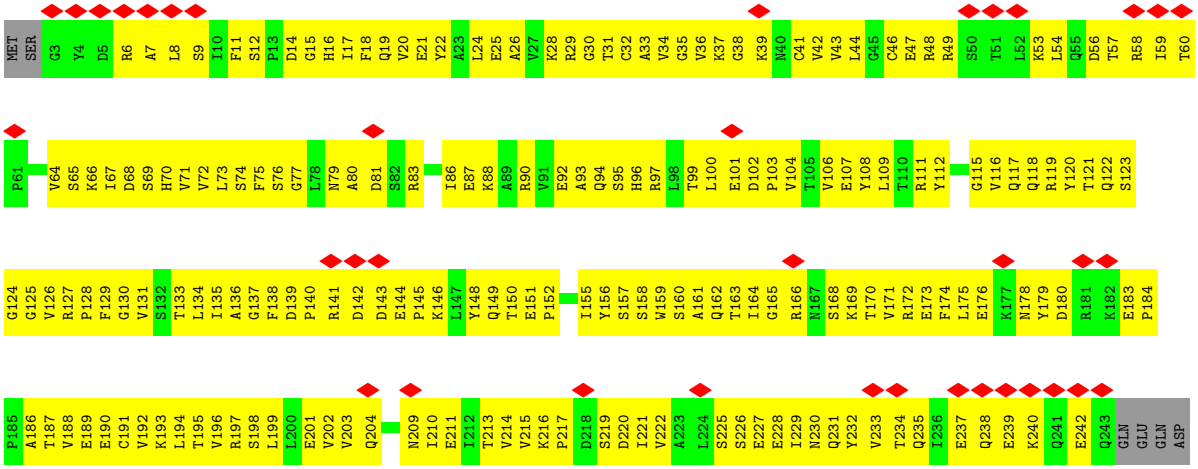


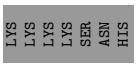


• Molecule 11: Proteasome subunit alpha type-4

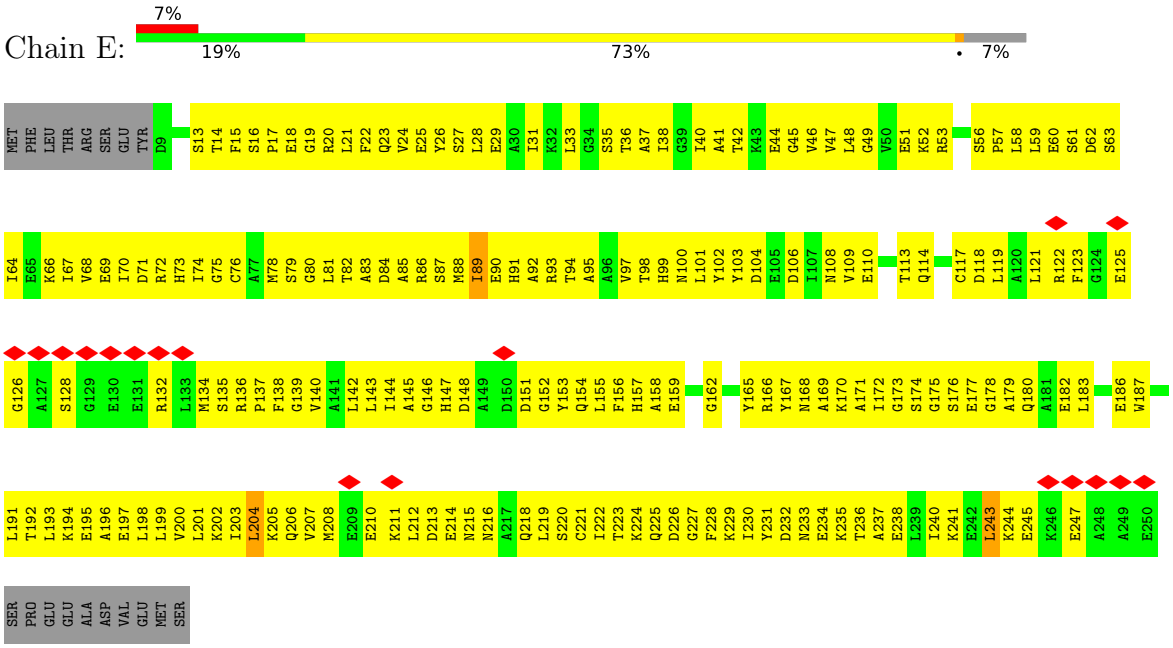


• Molecule 11: Proteasome subunit alpha type-4

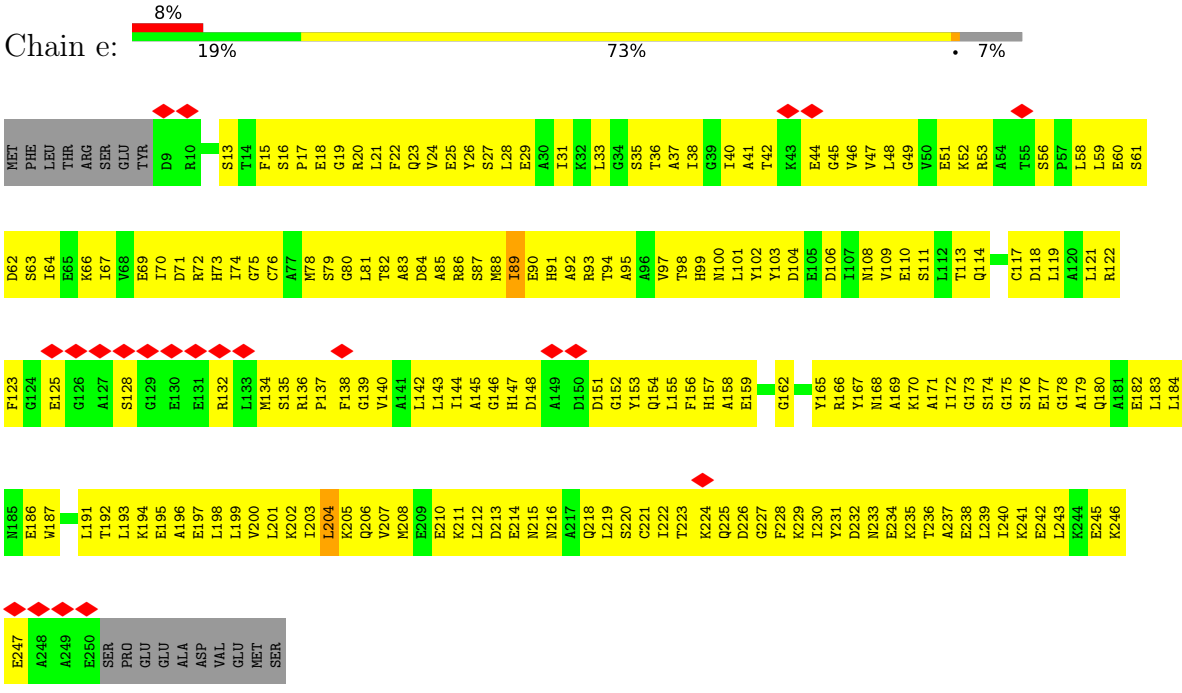




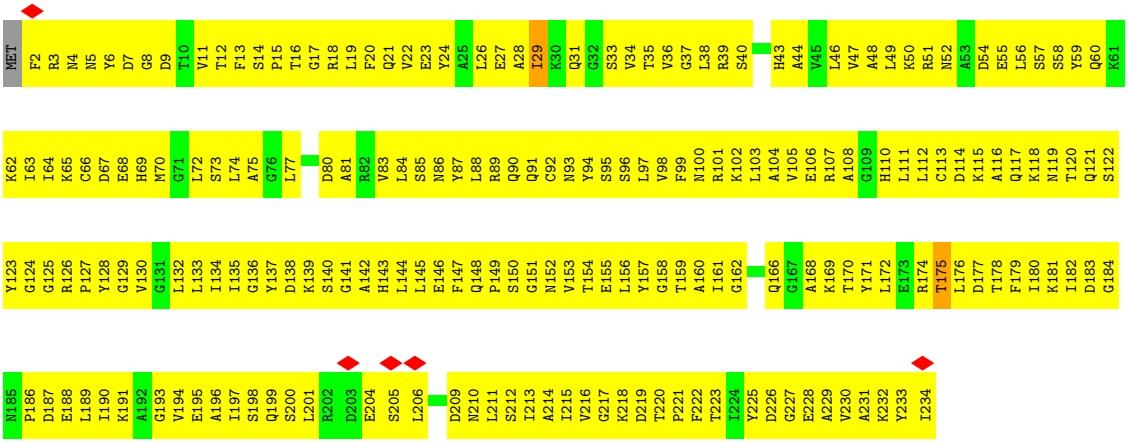
• Molecule 12: Proteasome subunit alpha type-5



• Molecule 12: Proteasome subunit alpha type-5



• Molecule 13: Proteasome subunit alpha type-6



• Molecule 13: Proteasome subunit alpha type-6

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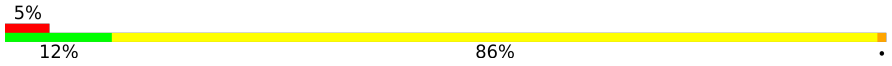
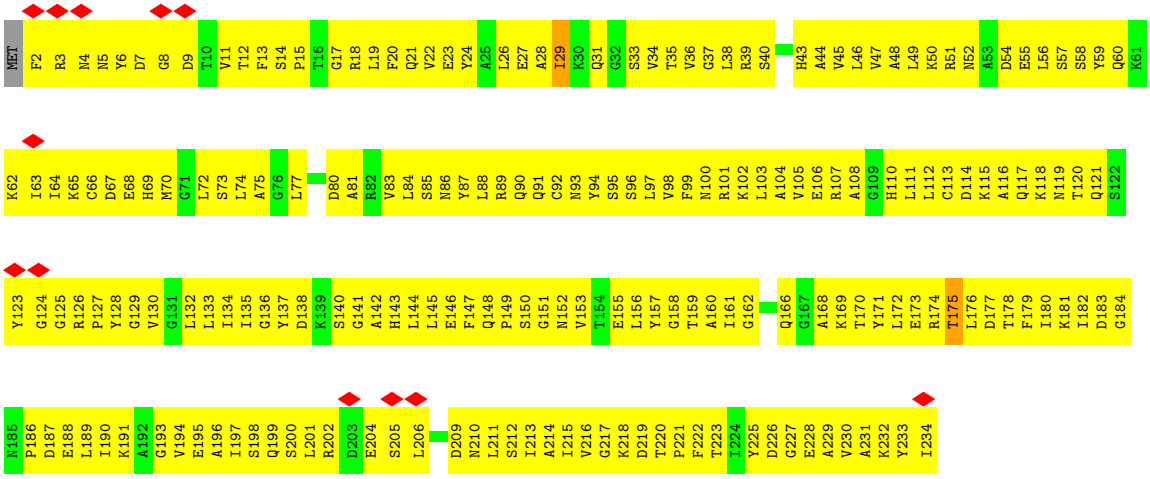
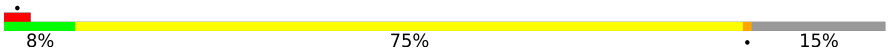
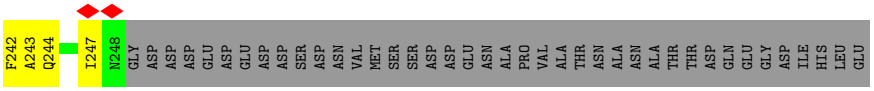




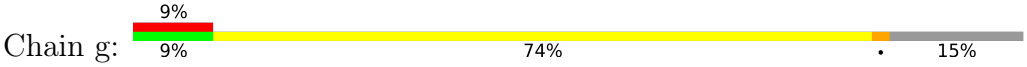
• Molecule 14: Probable proteasome subunit alpha type-7

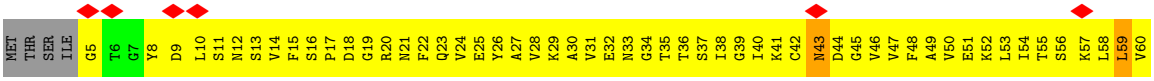
Chain G:

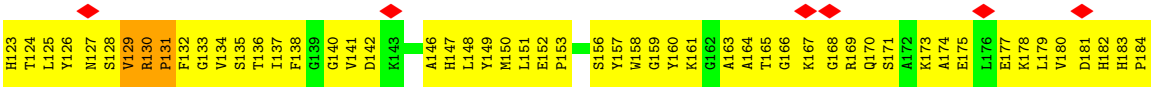


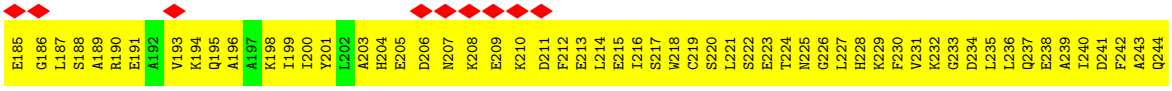


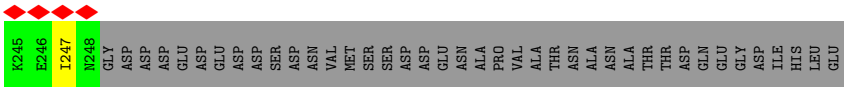
• Molecule 14: Probable proteasome subunit alpha type-7



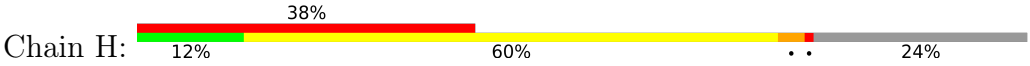


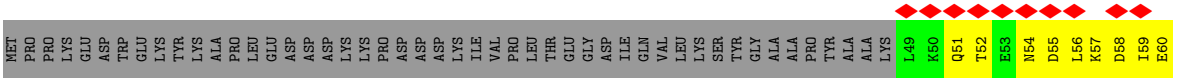


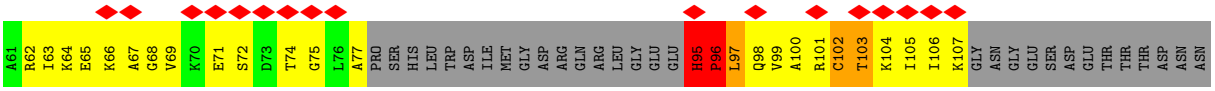


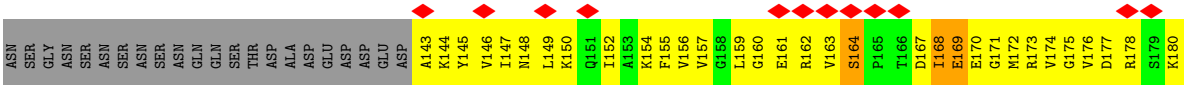


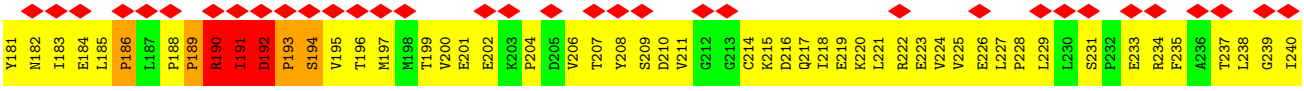
• Molecule 15: 26S protease regulatory subunit 7 homolog

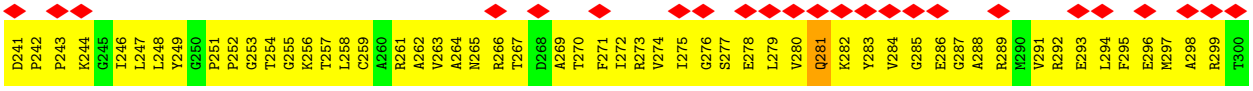


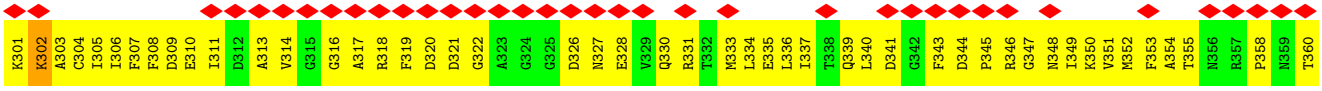


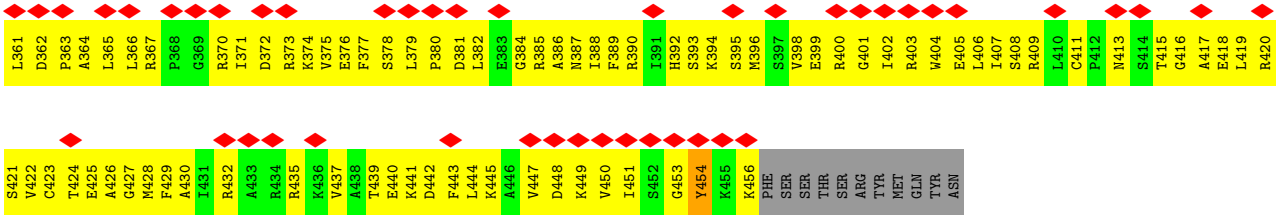




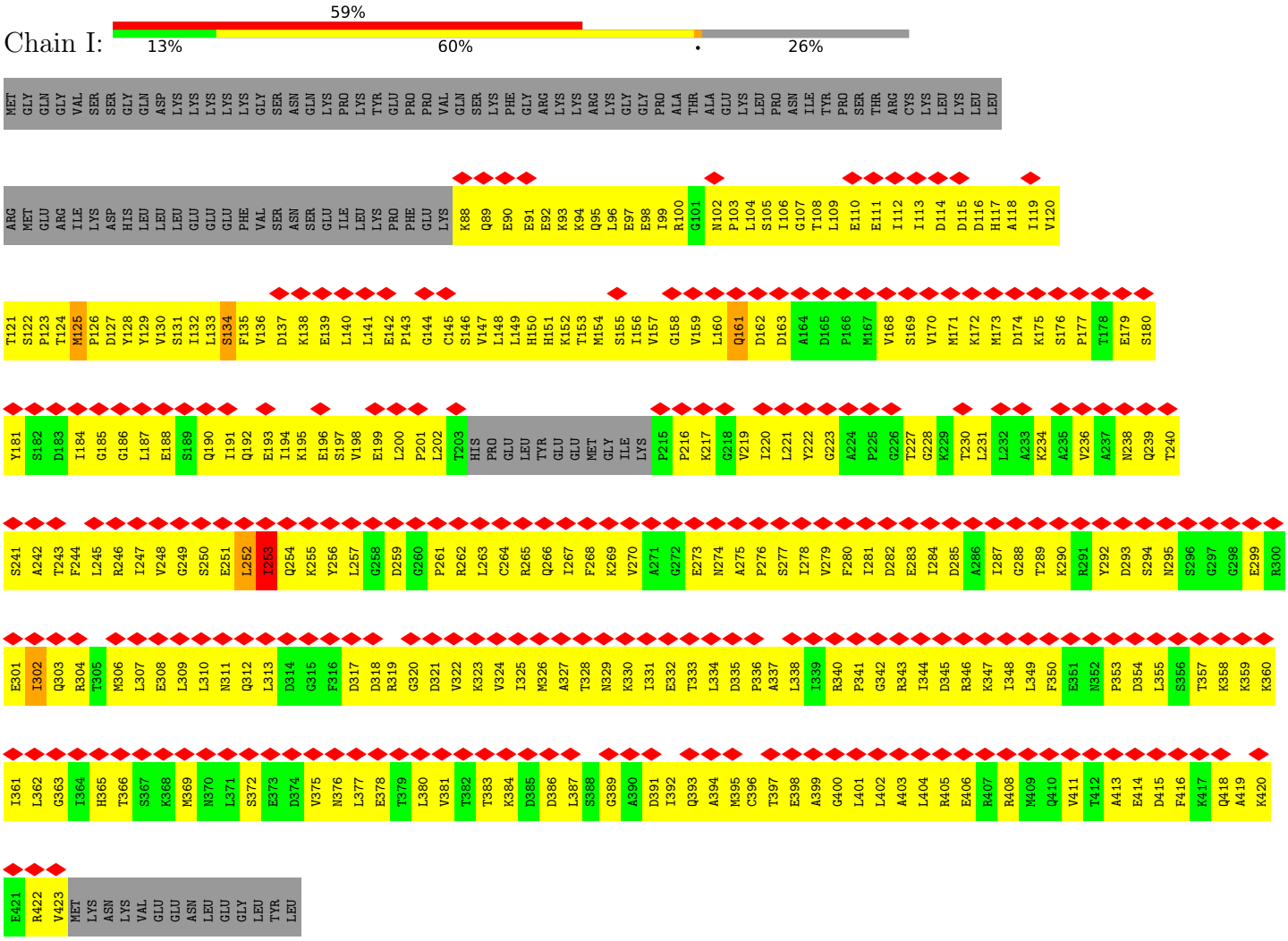




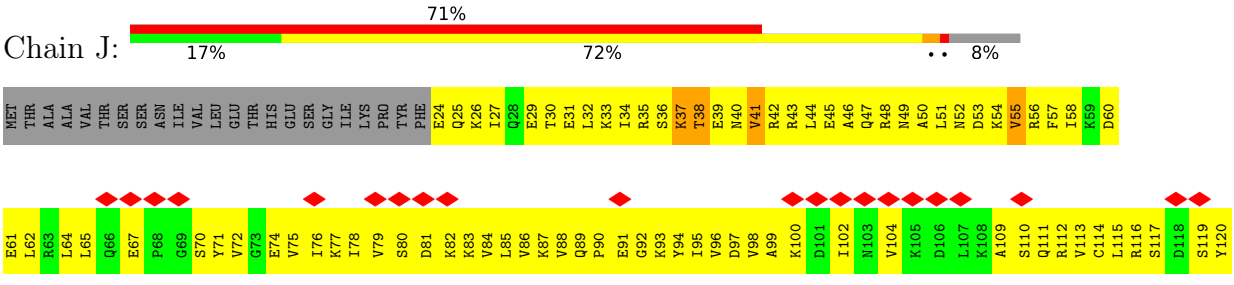


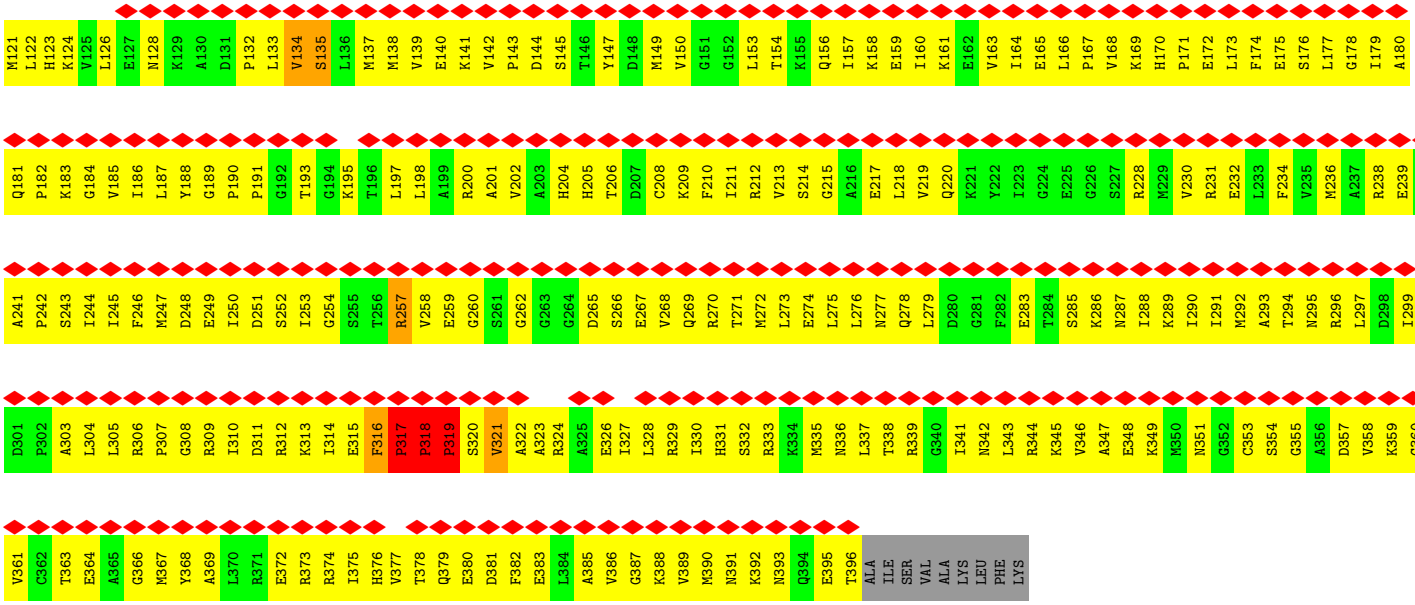


• Molecule 16: 26S protease regulatory subunit 4 homolog



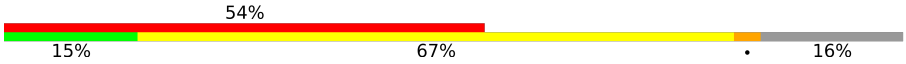
• Molecule 17: 26S protease regulatory subunit 8 homolog

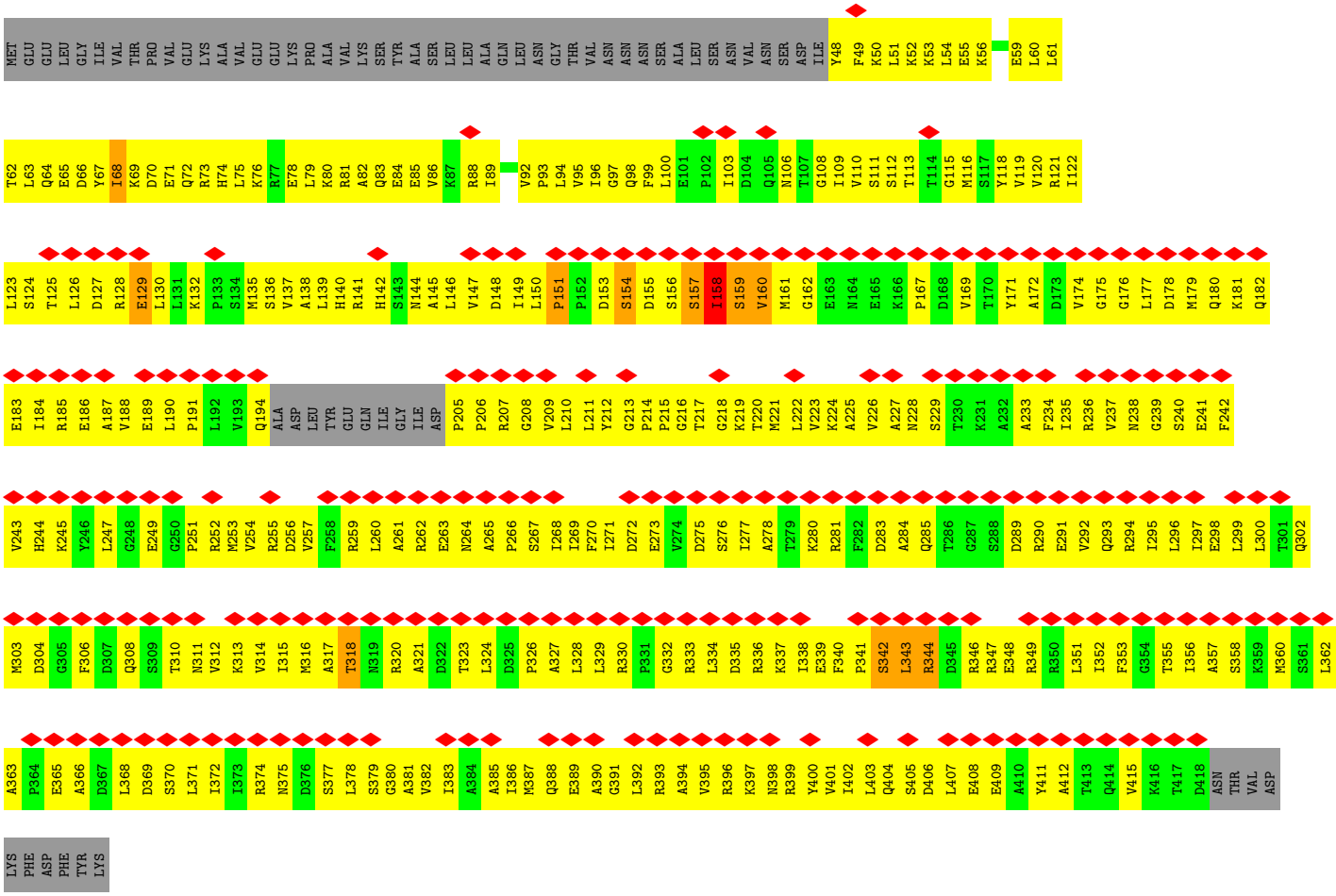




• Molecule 18: 26S protease regulatory subunit 6B homolog

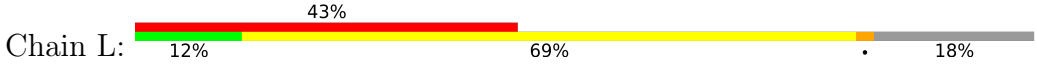
Chain K:

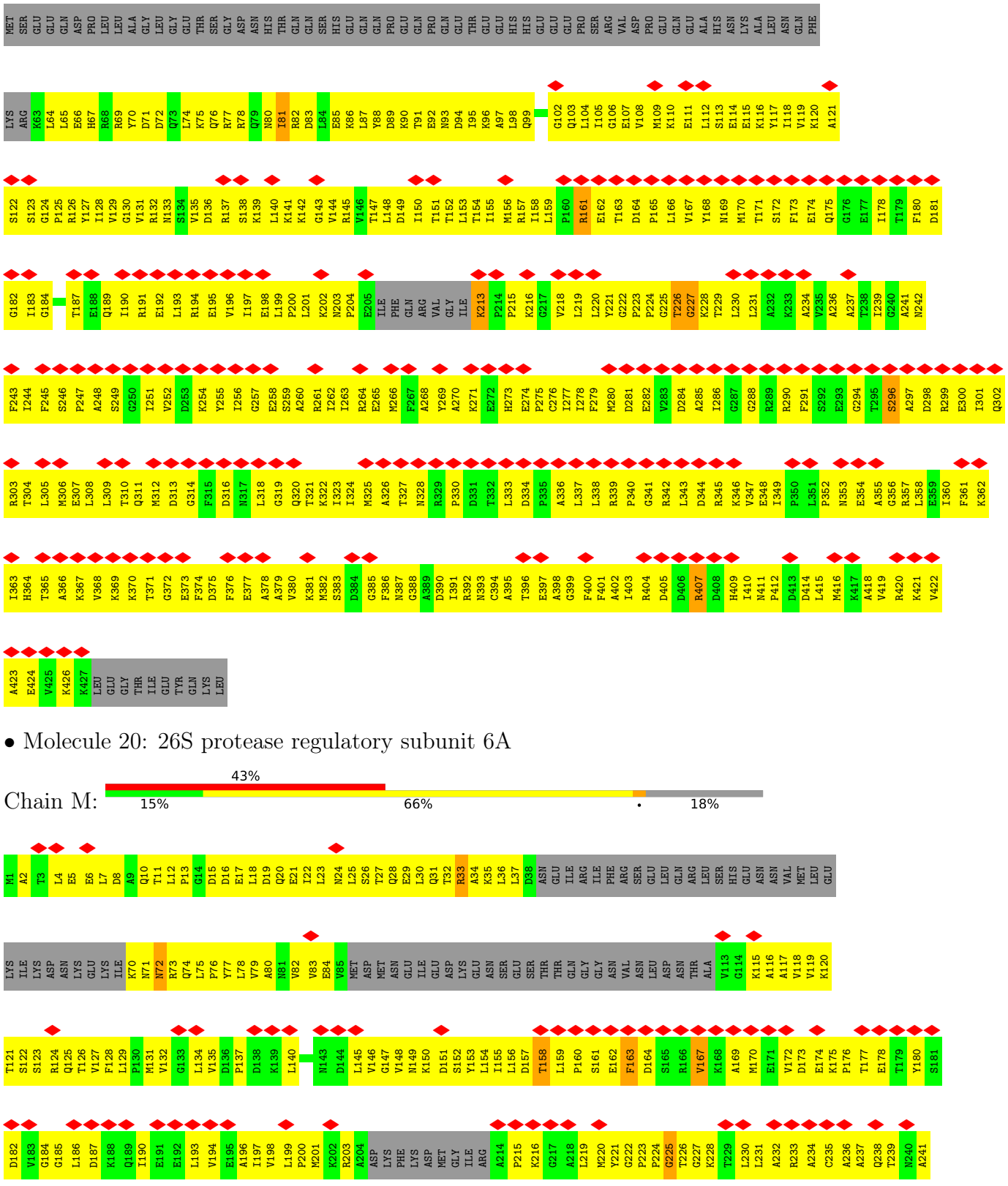




• Molecule 19: 26S protease subunit RPT4

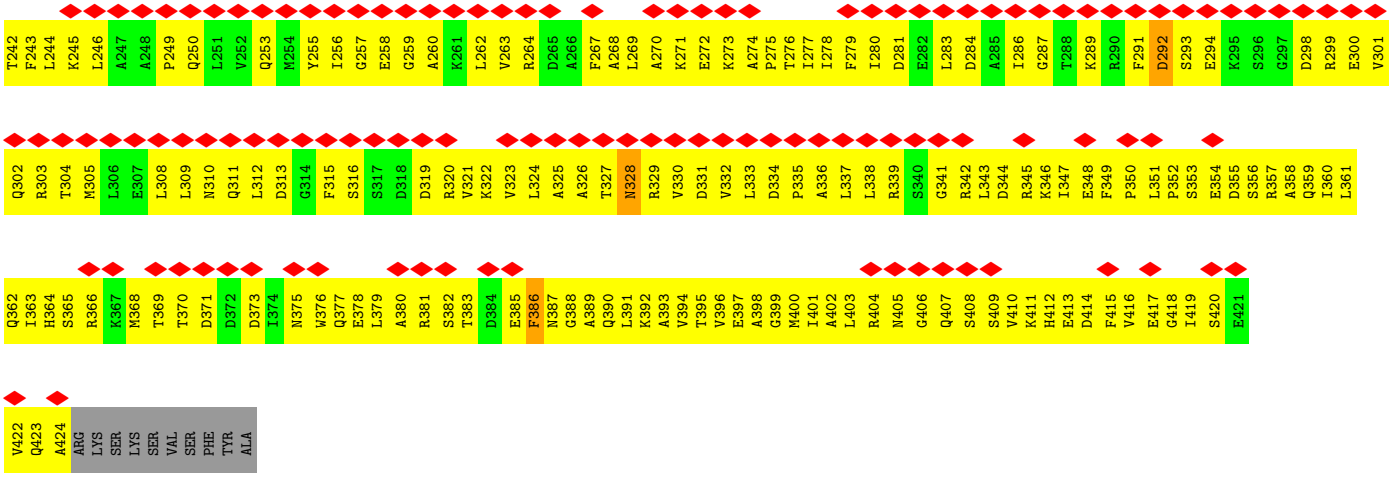
Chain L:





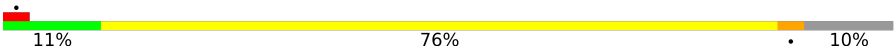
• Molecule 20: 26S protease regulatory subunit 6A

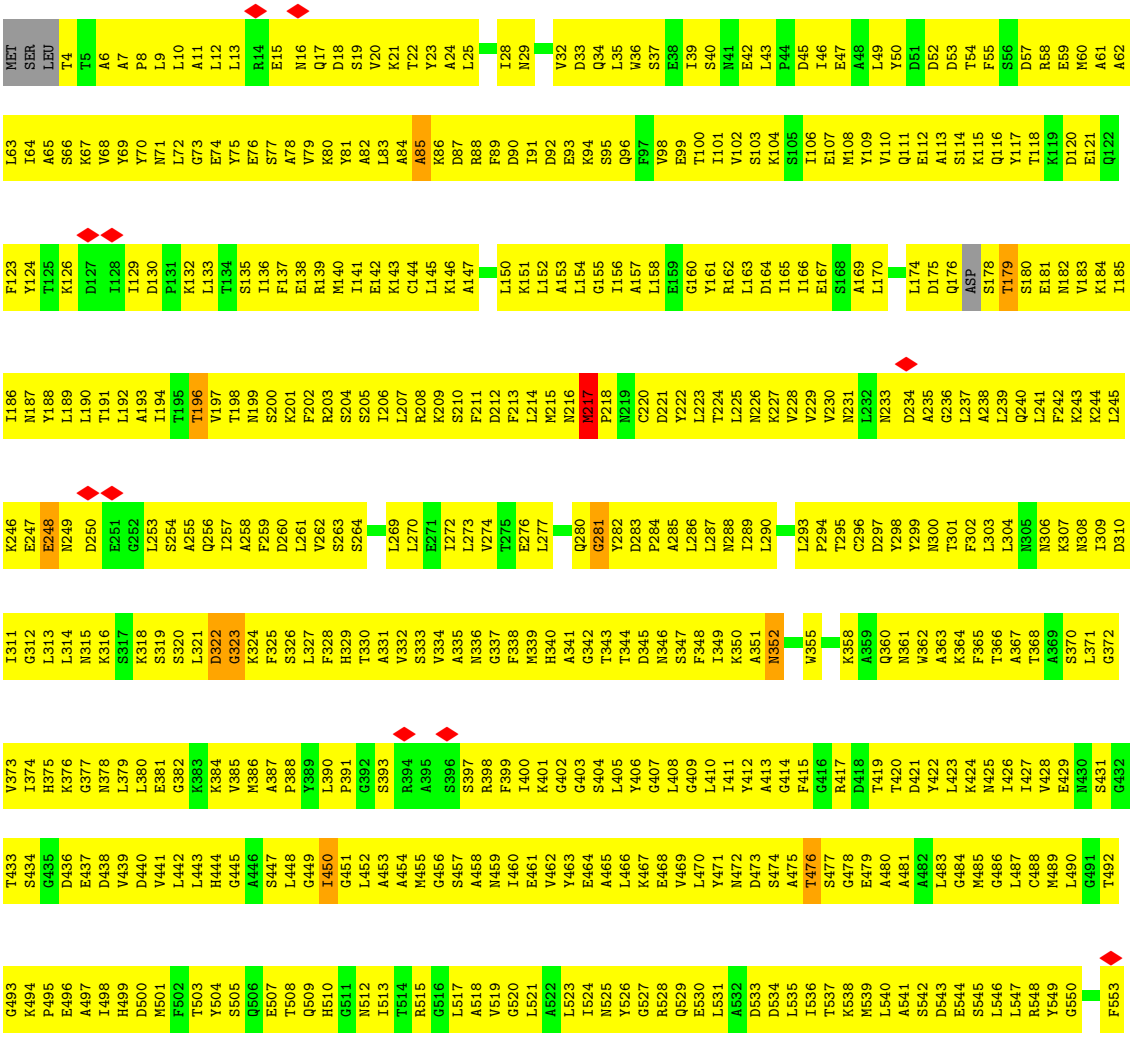
Chain M:

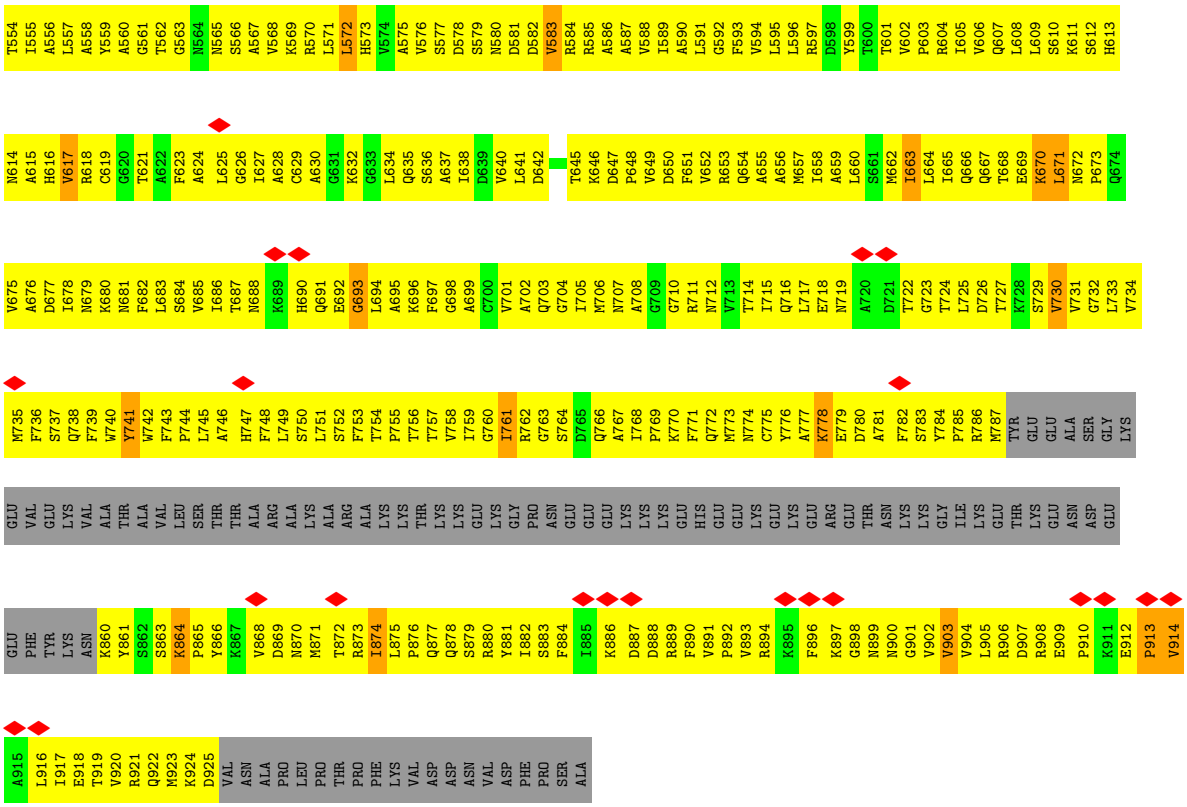


• Molecule 21: 26S proteasome regulatory subunit RPN2

Chain N:

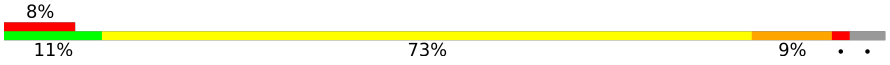


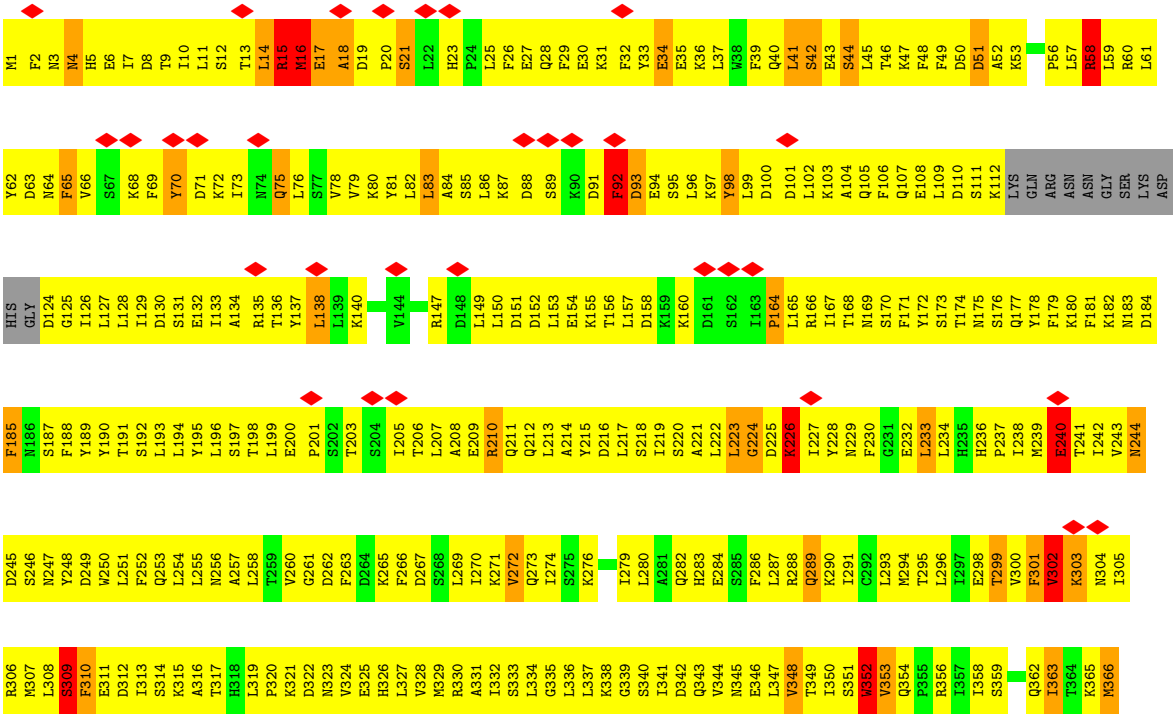




• Molecule 22: 26S proteasome regulatory subunit RPN9

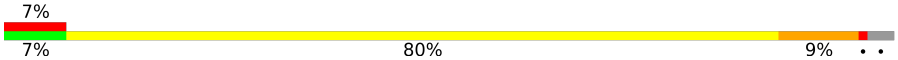
Chain O:

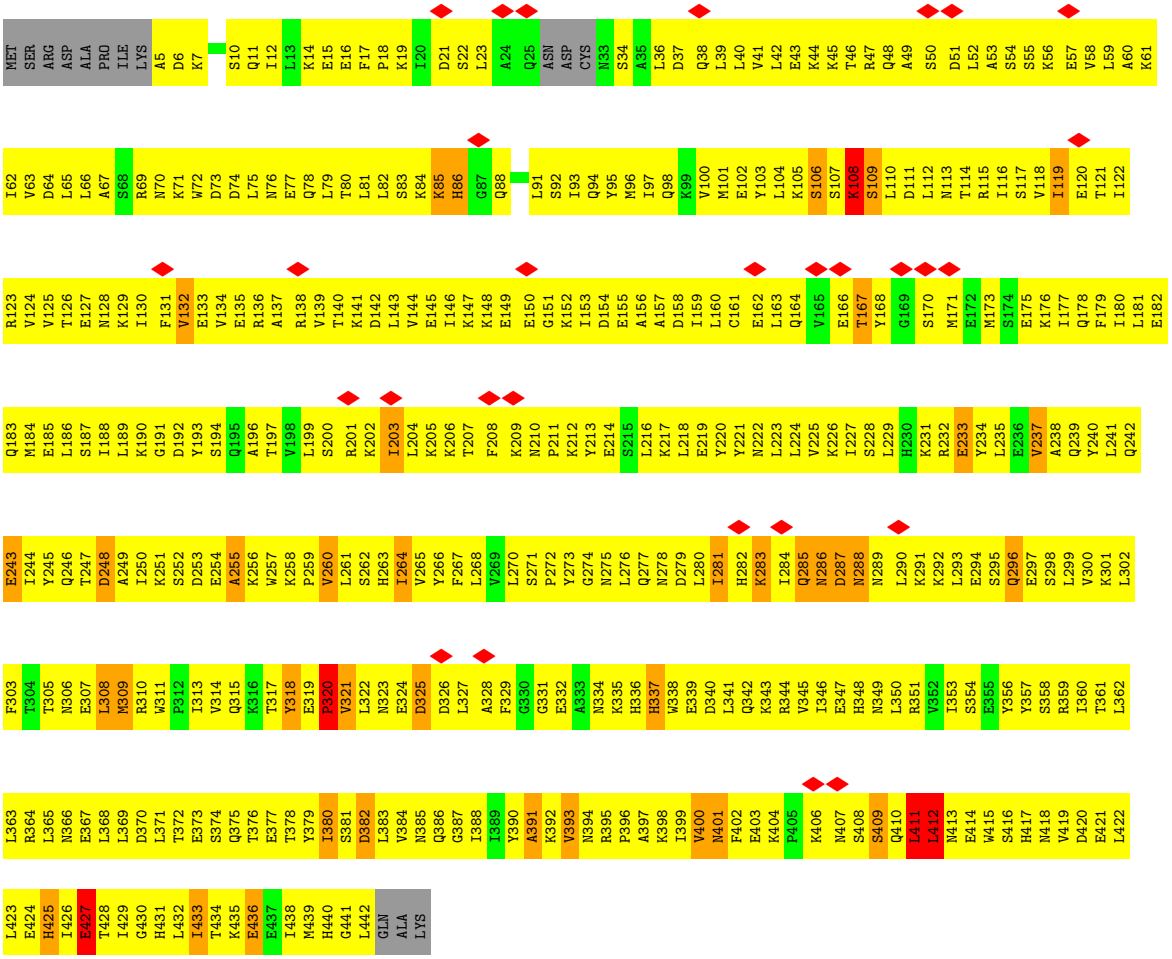




• Molecule 23: 26S proteasome regulatory subunit RPN5

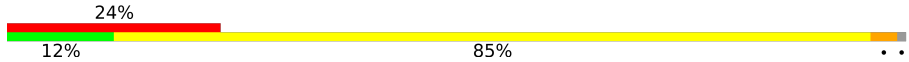
Chain P:

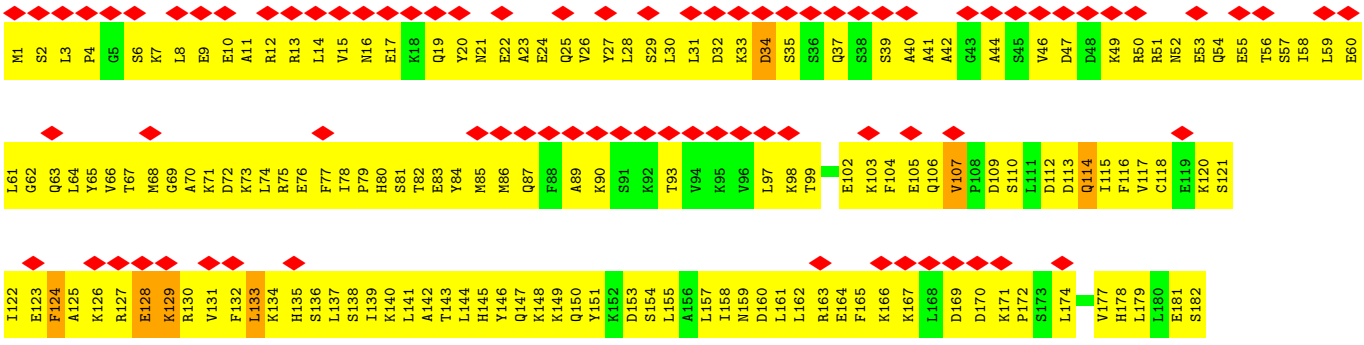


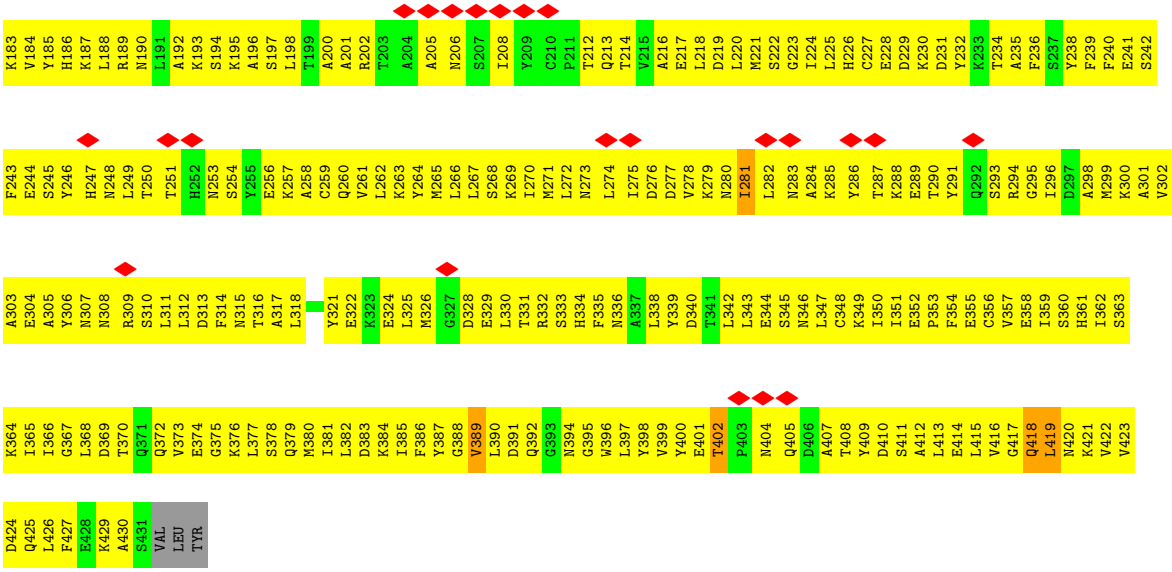


• Molecule 24: 26S proteasome regulatory subunit RPN6

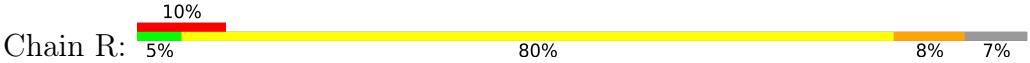
Chain Q:

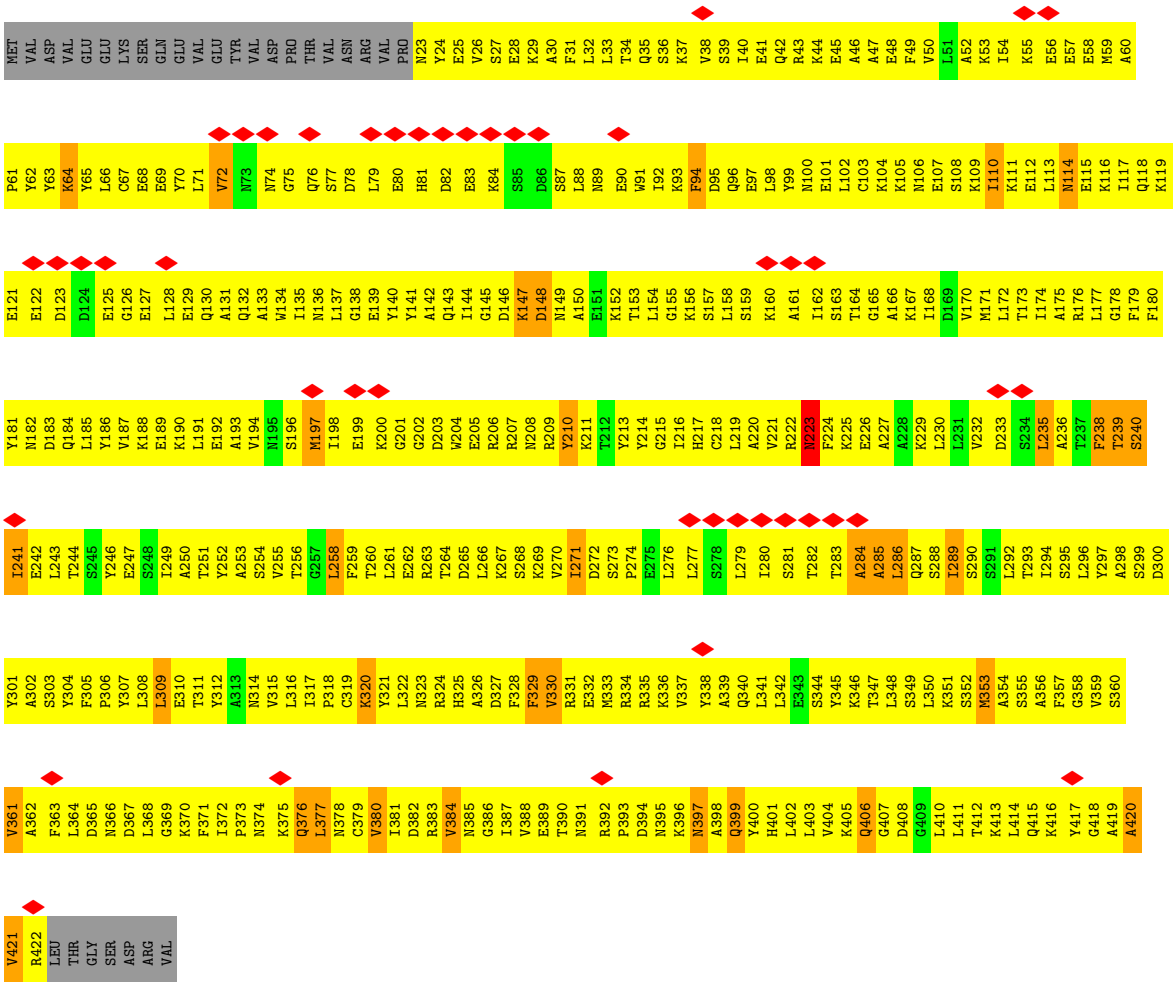






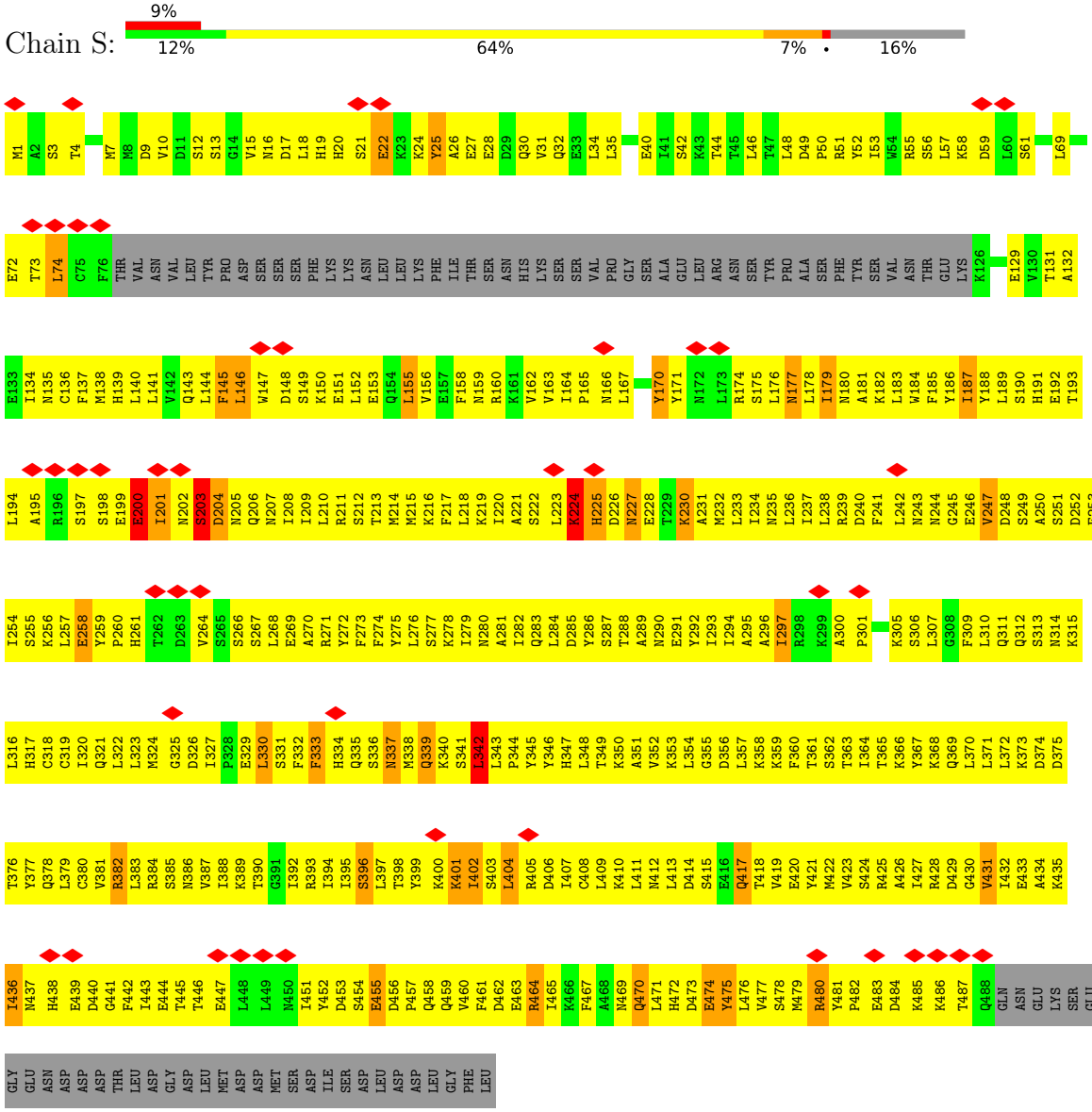
• Molecule 25: 26S proteasome regulatory subunit RPN7





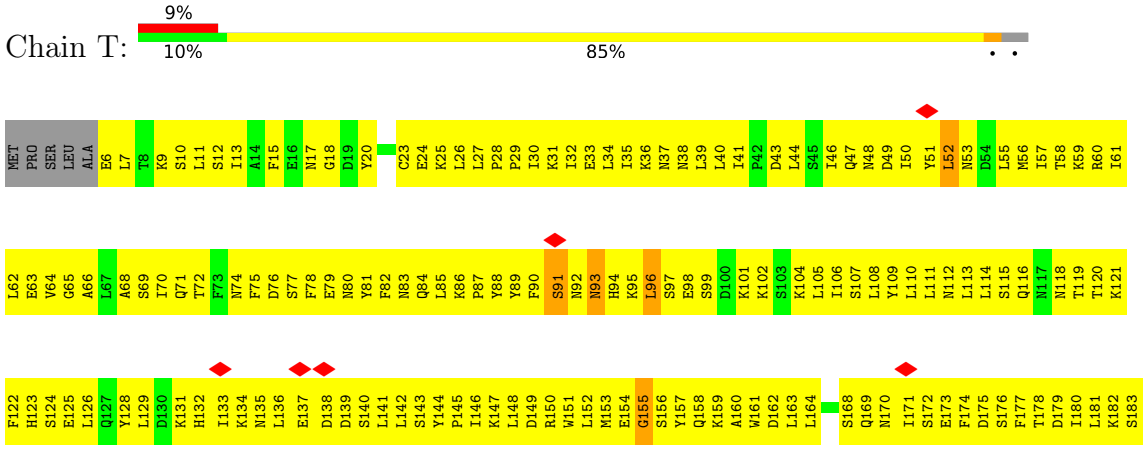
• Molecule 26: 26S proteasome regulatory subunit RPN3

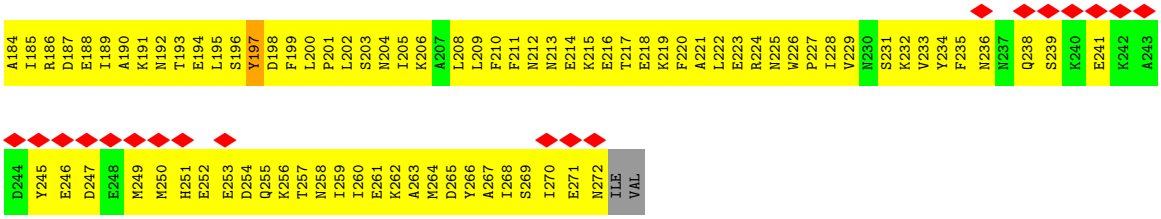
Chain S:



• Molecule 27: 26S proteasome regulatory subunit RPN12

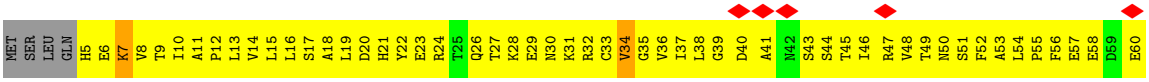
Chain T:

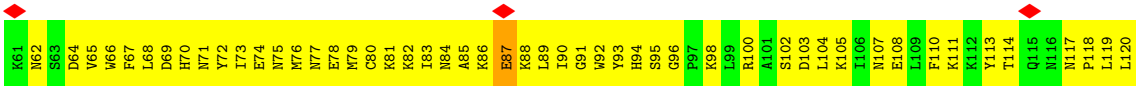


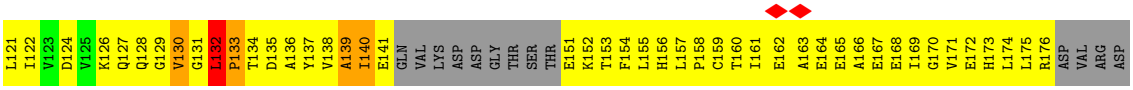


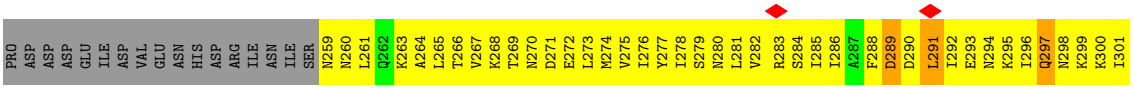
• Molecule 28: 26S proteasome regulatory subunit RPN8

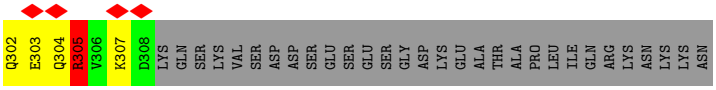
Chain U:





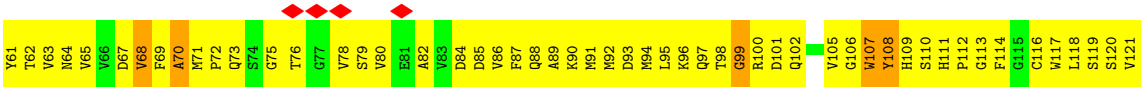


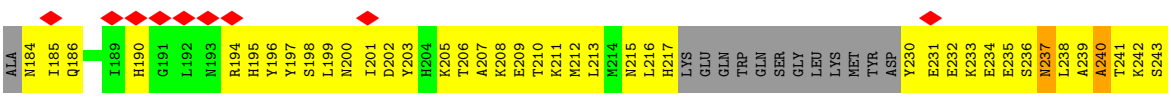


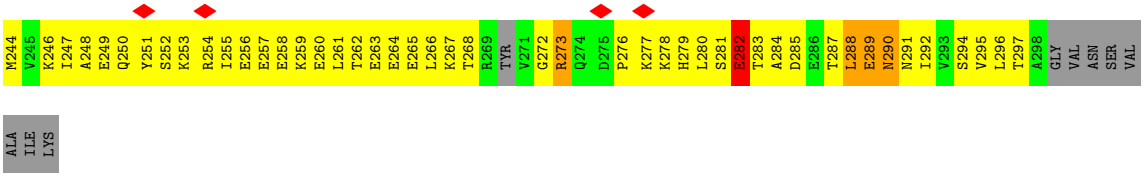


• Molecule 29: Ubiquitin carboxyl-terminal hydrolase RPN11

Chain V:

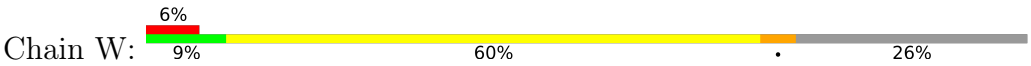


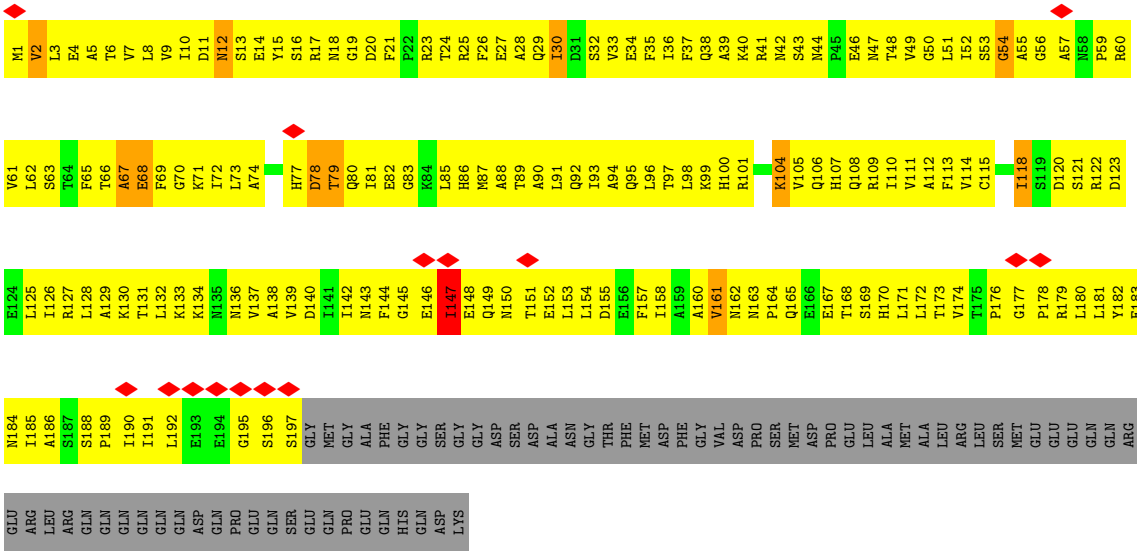




• Molecule 30: 26S proteasome regulatory subunit RPN10

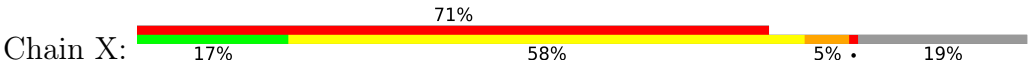
Chain W:

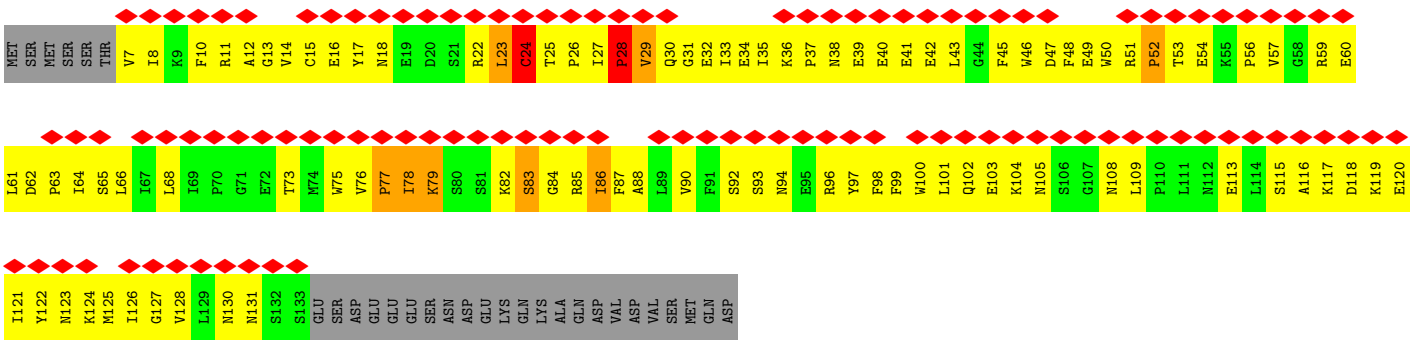




• Molecule 31: 26S proteasome regulatory subunit RPN13

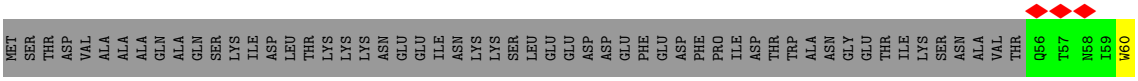
Chain X:



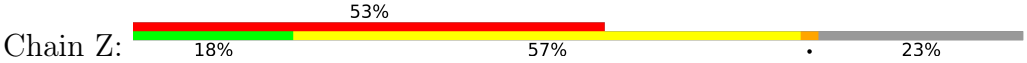


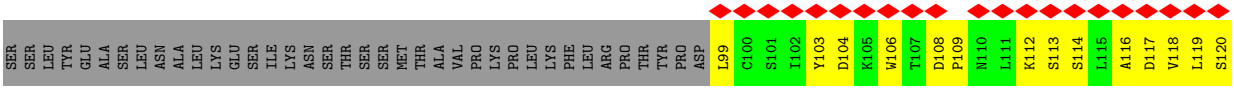
• Molecule 32: 26S proteasome complex subunit SEM1

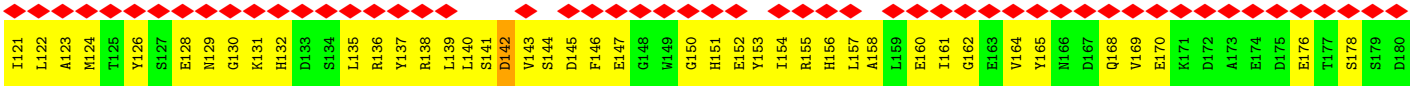
Chain Y:

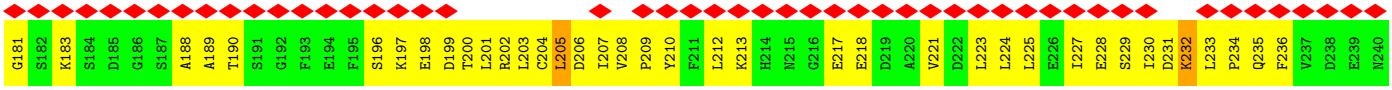


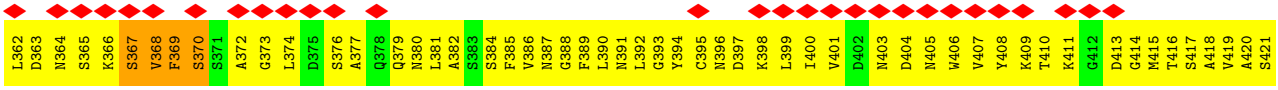
• Molecule 33: 26S proteasome regulatory subunit RPN1

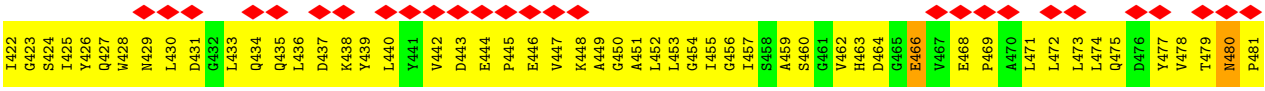


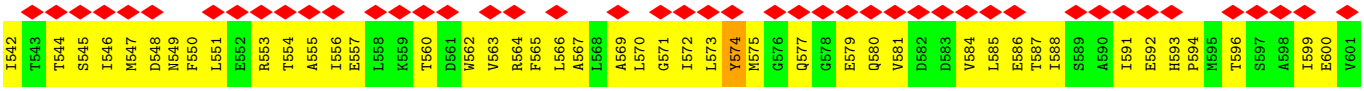


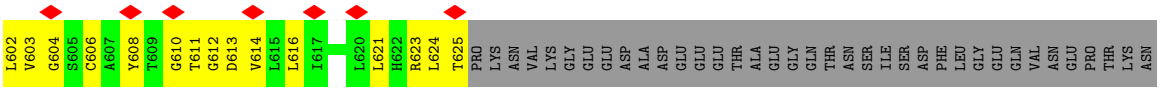


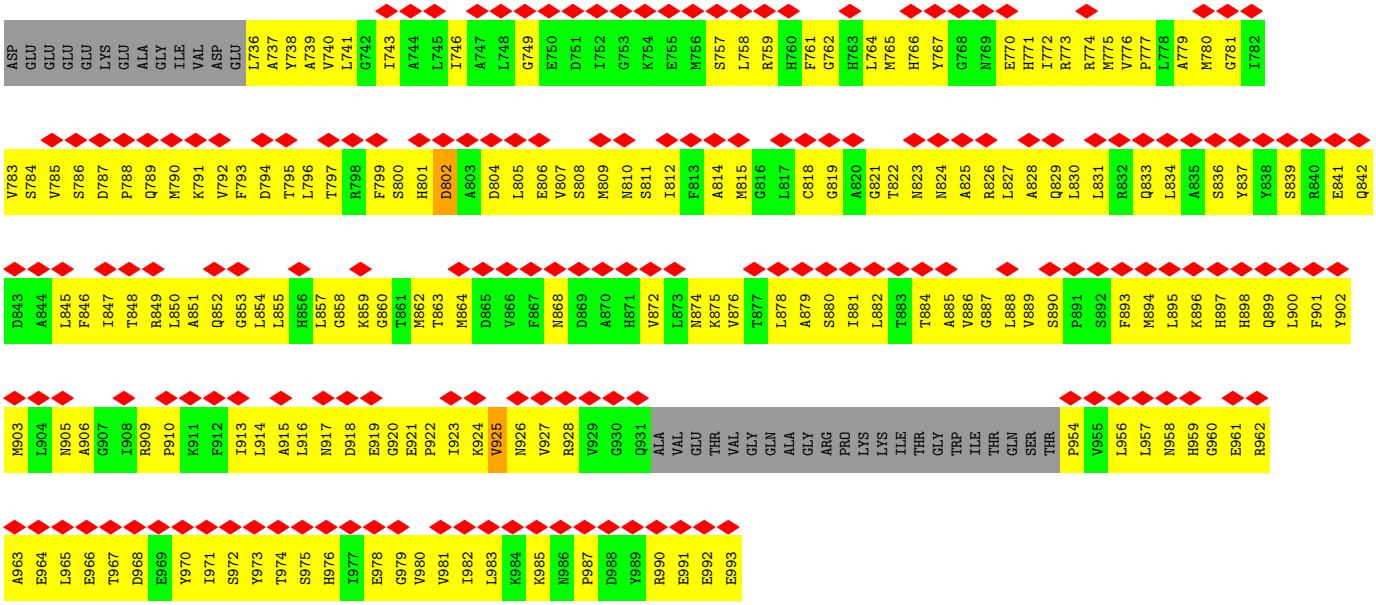











ASP GLU GLU GLU GLU LYS GLU ALA GLY ILE VAL ASP GLU L736 A737 Y738 A739 V740 L741 G742 I743 A744 L745 I746 A747 L748 G749 E750 D751 I752 G753 K754 E755 M756 S757 L758 R759 H760 F761 G762 H763 L764 M765 H766 Y767 G768 N769 E770 H771 I772 R773 R774 M775 V776 P777 L778 A779 M780 G781 I782
V783 S784 V785 S786 D787 P788 Q789 M790 K791 V792 F793 D794 T795 L796 T797 R798 F799 S800 H801 D802 A803 D804 L805 E806 V807 S808 M809 N810 S811 I812 F813 A814 M815 G816 L817 C818 G819 A820 G821 T822 N823 N824 A825 R826 L827 A828 Q829 L830 L831 R832 Q833 L834 A835 S836 Y837 Y838 S839 R840 E841 Q842
D843 A844 L845 F846 I847 T848 R849 L850 A851 Q852 G853 L854 L855 H856 L857 G858 K859 G860 T861 M862 T863 M864 D865 V866 F867 N868 D869 A870 H871 V872 L873 N874 K875 V876 T877 L878 A879 S880 I881 L882 T883 T884 A885 V886 G887 L888 V889 S890 P891 S892 F893 M894 L895 K896 H897 H898 Q899 L900 F901 Y902
M903 L904 N905 A906 G907 I908 R909 P910 K911 F912 I913 L914 A915 L916 N917 D918 E919 G920 E921 P922 I923 K924 V925 N926 V927 R928 V929 G930 Q931 ALA VAL GLU THR VAL GLY GLN ALA GLY ARG PRO LYS LYS ILE THR GLY TRP ILE THR GLN SER THR P954 V955 L956 L957 N958 H959 G960 E961 R962
A963 E964 L965 E966 T967 D968 E969 Y970 I971 S972 Y973 T974 S975 H976 I977 E978 G979 V980 V981 I982 L983 K984 K985 N986 P987 D988 Y989 R990 E991 E992 E993

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	81782	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	each micrograph	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	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	0.230	Depositor
Minimum map value	-0.079	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	0.0796	Depositor
Map size (Å)	537.6, 537.6, 537.6	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	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	0.61	0/1795	0.80	2/2420 (0.1%)
1	8	0.60	0/1795	0.78	2/2420 (0.1%)
2	2	0.63	1/1855 (0.1%)	0.77	2/2514 (0.1%)
2	9	0.63	1/1855 (0.1%)	0.77	2/2514 (0.1%)
3	3	0.60	0/1603	0.77	1/2168 (0.0%)
3	h	0.60	0/1603	0.77	2/2168 (0.1%)
4	4	0.59	0/1715	0.73	0/2326
4	i	0.59	0/1715	0.73	0/2326
5	5	0.57	0/1611	0.69	0/2174
5	j	0.58	0/1611	0.69	0/2174
6	6	0.61	0/1613	0.76	0/2173
6	k	0.61	0/1613	0.76	0/2173
7	7	0.58	0/1681	0.75	0/2274
7	l	0.58	0/1681	0.76	0/2274
8	A	0.60	0/1959	0.76	0/2652
8	a	0.60	0/1959	0.77	0/2652
9	B	0.54	0/1952	0.70	0/2642
9	b	0.54	0/1952	0.70	0/2642
10	C	0.55	0/1934	0.73	1/2618 (0.0%)
10	c	0.55	0/1934	0.73	1/2618 (0.0%)
11	D	0.56	0/1919	0.76	0/2598
11	d	0.56	0/1919	0.76	0/2598
12	E	0.57	0/1886	0.75	0/2541
12	e	0.58	0/1886	0.76	0/2541
13	F	0.58	0/1823	0.79	0/2463
13	f	0.58	0/1823	0.79	0/2463
14	G	0.60	0/1936	0.80	4/2614 (0.2%)
14	g	0.60	1/1936 (0.1%)	0.80	4/2614 (0.2%)
15	H	0.49	1/2810 (0.0%)	0.81	4/3780 (0.1%)
16	I	0.38	0/2543	0.67	2/3429 (0.1%)
17	J	0.51	3/2964 (0.1%)	0.79	6/3981 (0.2%)
18	K	0.49	1/2887 (0.0%)	0.80	3/3894 (0.1%)
19	L	0.45	0/2870	0.72	2/3858 (0.1%)
20	M	0.43	0/2785	0.76	4/3763 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
21	N	0.56	1/6670 (0.0%)	0.80	7/9023 (0.1%)
22	O	0.62	0/3142	1.06	10/4241 (0.2%)
23	P	0.65	1/3520 (0.0%)	0.95	10/4752 (0.2%)
24	Q	0.55	0/3527	0.76	2/4748 (0.0%)
25	R	0.59	0/3272	0.88	3/4412 (0.1%)
26	S	0.58	0/3410	0.96	12/4621 (0.3%)
27	T	0.57	1/2244 (0.0%)	0.85	1/3029 (0.0%)
28	U	0.57	0/2059	0.92	7/2774 (0.3%)
29	V	0.58	0/1939	1.01	8/2613 (0.3%)
30	W	0.52	0/1557	0.84	2/2111 (0.1%)
31	X	0.43	0/1058	0.82	4/1432 (0.3%)
32	Y	0.63	0/244	1.08	2/328 (0.6%)
33	Z	0.31	0/6001	0.66	1/8141 (0.0%)
All	All	0.55	11/106066 (0.0%)	0.80	111/143284 (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
6	6	0	1
6	k	0	1
8	A	0	1
8	a	0	1
10	C	0	1
10	c	0	1
13	F	0	1
13	f	0	1
15	H	0	10
16	I	0	2
17	J	0	3
18	K	0	4
19	L	0	4
20	M	0	4
21	N	0	11
22	O	0	22
23	P	0	17
24	Q	0	8
25	R	0	8
26	S	0	16
27	T	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
28	U	0	8
29	V	0	6
30	W	0	8
31	X	0	6
32	Y	0	2
33	Z	0	5
All	All	0	156

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	N	217	MET	CA-C	-6.61	1.49	1.53
17	J	316	PHE	C-N	6.34	1.40	1.33
18	K	362	LEU	C-N	-6.13	1.20	1.33
23	P	287	ASP	CA-C	-5.71	1.48	1.53
27	T	93	ASN	CA-C	-5.59	1.45	1.52
14	g	131	PRO	N-CD	5.33	1.55	1.47
15	H	96	PRO	N-CD	5.16	1.55	1.47
2	2	63	TYR	CA-CB	-5.16	1.45	1.53
2	9	63	TYR	CA-CB	-5.14	1.45	1.53
17	J	319	PRO	N-CD	5.11	1.55	1.47
17	J	318	PRO	N-CD	5.09	1.54	1.47

All (111) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	V	70	ALA	CA-C-N	-11.82	102.71	120.68
29	V	70	ALA	C-N-CA	-11.82	102.71	120.68
23	P	287	ASP	N-CA-C	-11.36	97.62	110.91
22	O	240	GLU	N-CA-C	10.20	126.04	112.88
28	U	289	ASP	N-CA-C	10.05	125.70	113.23
22	O	42	SER	N-CA-C	9.72	124.38	113.21
10	c	223	GLY	N-CA-C	-9.71	101.74	114.85
10	C	223	GLY	N-CA-C	-9.66	101.81	114.85
29	V	107	TRP	CB-CA-C	-8.80	94.25	109.65
17	J	318	PRO	C-N-CD	8.71	139.76	120.60
15	H	95	HIS	C-N-CD	8.45	139.19	120.60
17	J	317	PRO	C-N-CD	8.41	139.10	120.60
22	O	58	ARG	N-CA-C	-8.25	103.12	113.02
22	O	352	TRP	CA-C-N	7.92	136.23	121.97
22	O	352	TRP	C-N-CA	7.92	136.23	121.97
23	P	309	MET	N-CA-C	-7.87	103.13	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	Y	64	TRP	N-CA-C	7.80	122.10	112.58
28	U	289	ASP	CA-C-N	7.76	134.45	122.42
28	U	289	ASP	C-N-CA	7.76	134.45	122.42
26	S	402	ILE	N-CA-C	-7.33	94.11	109.34
29	V	107	TRP	N-CA-C	7.19	121.42	108.69
26	S	330	LEU	N-CA-C	-7.13	104.71	113.19
29	V	99	GLY	N-CA-C	-7.11	105.51	115.32
20	M	225	GLY	N-CA-C	-7.03	106.50	115.42
26	S	155	LEU	CA-CB-CG	-6.93	92.05	116.30
23	P	401	ASN	CA-C-N	-6.88	108.56	122.31
23	P	401	ASN	C-N-CA	-6.88	108.56	122.31
14	G	59	LEU	CA-C-N	-6.69	118.05	122.60
14	G	59	LEU	C-N-CA	-6.69	118.05	122.60
27	T	155	GLY	N-CA-C	6.67	123.86	114.85
17	J	316	PHE	CA-C-N	-6.62	113.56	120.38
17	J	316	PHE	C-N-CA	-6.62	113.56	120.38
14	g	59	LEU	CA-C-N	-6.60	118.11	122.60
14	g	59	LEU	C-N-CA	-6.60	118.11	122.60
18	K	68	ILE	N-CA-C	6.54	116.67	110.53
25	R	309	LEU	CA-CB-CG	-6.53	93.44	116.30
26	S	204	ASP	N-CA-C	-6.53	97.90	108.41
21	N	217	MET	CA-C-N	-6.51	103.51	120.25
21	N	217	MET	C-N-CA	-6.51	103.51	120.25
19	L	227	GLY	N-CA-C	-6.44	105.62	114.64
20	M	292	ASP	N-CA-C	6.36	116.46	108.45
18	K	157	SER	N-CA-C	6.34	119.12	108.02
15	H	191	ILE	CA-C-N	6.29	133.03	121.70
15	H	191	ILE	C-N-CA	6.29	133.03	121.70
26	S	382	ARG	N-CA-C	-6.29	103.69	112.12
31	X	83	SER	CB-CA-C	-6.27	109.33	116.54
23	P	18	PRO	N-CA-CB	6.23	110.18	103.33
19	L	226	THR	N-CA-C	-6.12	105.57	113.16
30	W	54	GLY	N-CA-C	-5.91	105.82	115.46
22	O	309	SER	N-CA-C	5.89	118.00	108.34
26	S	203	SER	N-CA-C	5.88	117.85	107.61
15	H	103	THR	N-CA-C	5.88	118.48	108.90
32	Y	63	ASN	N-CA-C	5.78	118.45	109.60
16	I	161	GLN	CA-C-N	5.78	132.09	121.70
16	I	161	GLN	C-N-CA	5.78	132.09	121.70
29	V	237	ASN	N-CA-C	5.75	117.41	111.03
28	U	214	VAL	N-CA-C	-5.74	107.15	112.83
23	P	285	GLN	N-CA-C	-5.73	106.26	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	M	158	THR	CA-C-N	-5.72	105.79	122.21
20	M	158	THR	C-N-CA	-5.72	105.79	122.21
21	N	217	MET	CB-CA-C	-5.72	105.33	110.71
26	S	200	GLU	CA-C-N	5.70	131.95	121.70
26	S	200	GLU	C-N-CA	5.70	131.95	121.70
24	Q	402	THR	N-CA-C	5.68	119.89	112.17
29	V	237	ASN	CA-C-N	5.59	131.76	121.70
29	V	237	ASN	C-N-CA	5.59	131.76	121.70
26	S	49	ASP	CA-C-N	-5.57	112.87	119.84
26	S	49	ASP	C-N-CA	-5.57	112.87	119.84
28	U	34	VAL	CA-C-N	-5.54	112.66	121.03
28	U	34	VAL	C-N-CA	-5.54	112.66	121.03
30	W	147	ILE	N-CA-C	-5.47	97.96	109.34
14	g	130	ARG	CA-C-N	-5.47	113.00	119.84
14	g	130	ARG	C-N-CA	-5.47	113.00	119.84
26	S	224	LYS	N-CA-C	-5.44	106.83	112.93
21	N	456	GLY	N-CA-C	-5.44	108.52	115.42
25	R	376	GLN	N-CA-C	-5.43	106.73	113.19
28	U	289	ASP	CB-CA-C	5.41	120.52	109.55
23	P	427	GLU	CA-C-N	-5.38	113.45	120.44
23	P	427	GLU	C-N-CA	-5.38	113.45	120.44
22	O	224	GLY	N-CA-C	-5.30	100.62	113.18
23	P	412	LEU	CA-CB-CG	5.28	134.79	116.30
22	O	226	LYS	CA-C-N	-5.27	115.79	122.43
22	O	226	LYS	C-N-CA	-5.27	115.79	122.43
2	9	143	LEU	CA-C-N	-5.26	114.68	122.41
2	9	143	LEU	C-N-CA	-5.26	114.68	122.41
22	O	185	PHE	N-CA-C	-5.26	106.12	112.54
3	h	20	THR	CB-CA-C	-5.25	110.50	116.54
31	X	53	THR	N-CA-C	-5.25	97.27	107.62
18	K	129	GLU	N-CA-C	-5.24	105.74	111.82
2	2	143	LEU	CA-C-N	-5.23	114.72	122.41
2	2	143	LEU	C-N-CA	-5.23	114.72	122.41
21	N	281	GLY	N-CA-C	-5.17	104.34	112.61
14	G	130	ARG	CA-C-N	-5.17	113.38	119.84
14	G	130	ARG	C-N-CA	-5.17	113.38	119.84
24	Q	419	LEU	CA-CB-CG	-5.14	98.31	116.30
31	X	86	ILE	CA-C-N	-5.13	114.34	121.99
31	X	86	ILE	C-N-CA	-5.13	114.34	121.99
1	8	124	TYR	CA-C-N	-5.11	114.90	122.41
1	8	124	TYR	C-N-CA	-5.11	114.90	122.41
21	N	864	LYS	N-CA-C	-5.10	102.74	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	J	317	PRO	CA-C-N	-5.08	114.81	127.00
17	J	317	PRO	C-N-CA	-5.08	114.81	127.00
1	1	124	TYR	CA-C-N	-5.08	114.95	122.41
1	1	124	TYR	C-N-CA	-5.08	114.95	122.41
3	3	115	GLY	N-CA-C	-5.05	102.67	111.62
25	R	271	ILE	N-CA-C	-5.05	105.06	110.36
3	h	115	GLY	N-CA-C	-5.04	102.69	111.62
26	S	339	GLN	CA-CB-CG	5.04	124.18	114.10
21	N	671	LEU	N-CA-C	-5.02	100.11	110.80
33	Z	614	VAL	N-CA-C	-5.01	107.04	112.80
23	P	283	LYS	CB-CA-C	-5.00	110.79	116.54

There are no chirality outliers.

All (156) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
6	6	196	GLN	Peptide
8	A	64	LEU	Peptide
10	C	221	ASN	Peptide
13	F	175	THR	Peptide
15	H	102	CYS	Peptide
15	H	164	SER	Peptide
15	H	169	GLU	Peptide
15	H	189	PRO	Peptide
15	H	190	ARG	Peptide
15	H	192	ASP	Peptide
15	H	193	PRO	Peptide
15	H	281	GLN	Peptide
15	H	302	LYS	Peptide
15	H	97	LEU	Peptide
16	I	125	MET	Peptide
16	I	134	SER	Peptide
17	J	257	ARG	Peptide
17	J	37	LYS	Peptide
17	J	38	THR	Peptide
18	K	151	PRO	Peptide
18	K	154	SER	Peptide
18	K	158	ILE	Peptide
18	K	318	THR	Peptide
19	L	161	ARG	Peptide
19	L	213	LYS	Peptide
19	L	296	SER	Peptide

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Mol	Chain	Res	Type	Group
19	L	407	ARG	Peptide
20	M	161	SER	Peptide
20	M	328	ASN	Peptide
20	M	386	PHE	Peptide
20	M	72	ASN	Peptide
21	N	196	THR	Peptide
21	N	217	MET	Peptide
21	N	248	GLU	Peptide
21	N	322	ASP	Peptide
21	N	323	GLY	Peptide
21	N	352	ASN	Peptide
21	N	663	ILE	Peptide
21	N	670	LYS	Peptide
21	N	693	GLY	Peptide
21	N	730	VAL	Peptide
21	N	778	LYS	Peptide
22	O	15	ARG	Peptide
22	O	16	MET	Peptide
22	O	164	PRO	Peptide
22	O	17	GLU	Peptide
22	O	21	SER	Peptide
22	O	223	LEU	Peptide
22	O	226	LYS	Peptide
22	O	240	GLU	Peptide
22	O	244	ASN	Peptide
22	O	299	THR	Peptide
22	O	301	PHE	Peptide
22	O	302	VAL	Peptide
22	O	309	SER	Peptide
22	O	310	PHE	Peptide
22	O	34	GLU	Peptide
22	O	41	LEU	Peptide
22	O	51	ASP	Peptide
22	O	53	LYS	Peptide
22	O	58	ARG	Peptide
22	O	75	GLN	Peptide
22	O	92	PHE	Peptide
22	O	98	TYR	Peptide
23	P	203	ILE	Peptide
23	P	211	PRO	Peptide
23	P	233	GLU	Peptide
23	P	248	ASP	Peptide

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Mol	Chain	Res	Type	Group
23	P	286	ASN	Peptide
23	P	308	LEU	Peptide
23	P	318	TYR	Peptide
23	P	320	PRO	Peptide
23	P	321	VAL	Peptide
23	P	325	ASP	Peptide
23	P	332	GLU	Peptide
23	P	391	ALA	Peptide
23	P	393	VAL	Peptide
23	P	400	VAL	Peptide
23	P	409	SER	Peptide
23	P	411	LEU	Peptide
23	P	86	HIS	Peptide
24	Q	107	VAL	Peptide
24	Q	124	PHE	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
24	Q	418	GLN	Peptide
25	R	223	ASN	Peptide
25	R	238	PHE	Peptide
25	R	240	SER	Peptide
25	R	329	PHE	Peptide
25	R	377	LEU	Peptide
25	R	380	VAL	Peptide
25	R	397	ASN	Peptide
25	R	94	PHE	Peptide
26	S	145	PHE	Peptide
26	S	146	LEU	Peptide
26	S	170	TYR	Peptide
26	S	200	GLU	Peptide
26	S	203	SER	Peptide
26	S	224	LYS	Peptide
26	S	227	ASN	Peptide
26	S	247	VAL	Peptide
26	S	258	GLU	Peptide
26	S	333	PHE	Peptide
26	S	337	ASN	Peptide
26	S	342	LEU	Peptide
26	S	401	LYS	Peptide

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Mol	Chain	Res	Type	Group
26	S	417	GLN	Peptide
26	S	436	ILE	Peptide
26	S	480	ARG	Peptide
27	T	197	TYR	Peptide
27	T	52	LEU	Peptide
27	T	91	SER	Peptide
27	T	96	LEU	Peptide
28	U	129	GLY	Peptide
28	U	132	LEU	Peptide
28	U	193	GLN	Peptide
28	U	197	LEU	Peptide
28	U	289	ASP	Peptide
28	U	305	ARG	Peptide
28	U	7	LYS	Peptide
28	U	87	GLU	Peptide
29	V	156	PHE	Peptide
29	V	161	THR	Peptide
29	V	162	GLY	Peptide
29	V	163	ALA	Peptide
29	V	273	ARG	Peptide
29	V	70	ALA	Peptide
30	W	104	LYS	Peptide
30	W	12	ASN	Peptide
30	W	146	GLU	Peptide
30	W	147	ILE	Peptide
30	W	161	VAL	Peptide
30	W	189	PRO	Peptide
30	W	2	VAL	Peptide
30	W	77	HIS	Peptide
31	X	23	LEU	Peptide
31	X	24	CYS	Peptide
31	X	28	PRO	Peptide
31	X	52	PRO	Peptide
31	X	77	PRO	Peptide
31	X	79	LYS	Peptide
32	Y	62	GLU	Peptide
32	Y	65	ASP	Peptide
33	Z	142	ASP	Peptide
33	Z	205	LEU	Peptide
33	Z	276	ASN	Peptide
33	Z	497	PHE	Peptide
33	Z	574	TYR	Peptide

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Mol	Chain	Res	Type	Group
8	a	64	LEU	Peptide
10	c	221	ASN	Peptide
13	f	175	THR	Peptide
6	k	196	GLN	Peptide

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	1757	0	1708	353	0
1	8	1757	0	1708	355	0
2	2	1824	0	1829	354	0
2	9	1824	0	1829	372	0
3	3	1574	0	1547	344	0
3	h	1574	0	1547	345	0
4	4	1684	0	1685	345	0
4	i	1684	0	1685	337	0
5	5	1581	0	1571	340	0
5	j	1581	0	1571	322	0
6	6	1585	0	1590	359	0
6	k	1585	0	1590	364	0
7	7	1644	0	1592	350	0
7	l	1644	0	1592	369	0
8	A	1921	0	1910	395	0
8	a	1921	0	1910	315	0
9	B	1915	0	1929	344	0
9	b	1915	0	1929	299	0
10	C	1904	0	1901	367	0
10	c	1904	0	1901	336	0
11	D	1890	0	1900	365	0
11	d	1890	0	1900	329	0
12	E	1861	0	1836	370	0
12	e	1861	0	1836	319	0
13	F	1795	0	1797	395	0
13	f	1795	0	1797	350	0
14	G	1896	0	1886	497	0
14	g	1896	0	1886	408	0
15	H	2771	0	2866	589	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
16	I	2513	0	2564	489	0
17	J	2928	0	3057	561	0
18	K	2849	0	2928	580	0
19	L	2829	0	2902	578	0
20	M	2754	0	2799	572	0
21	N	6562	0	6625	1361	0
22	O	3083	0	3099	870	0
23	P	3470	0	3500	956	0
24	Q	3471	0	3495	811	0
25	R	3218	0	3211	854	0
26	S	3357	0	3180	879	0
27	T	2201	0	2167	490	0
28	U	2034	0	2072	587	0
29	V	1912	0	1906	564	0
30	W	1534	0	1542	372	0
31	X	1032	0	1017	170	0
32	Y	243	0	182	50	0
33	Z	5894	0	5828	887	0
All	All	104317	0	104302	20016	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 96.

All (20016) 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)
22:O:11:LEU:CD2	22:O:14:LEU:HD12	1.22	1.64
22:O:11:LEU:CD2	22:O:14:LEU:CD1	1.80	1.58
16:I:249:GLY:CA	16:I:252:LEU:HD11	1.08	1.55
24:Q:413:LEU:CD1	25:R:406:GLN:HG3	1.33	1.53
16:I:249:GLY:C	16:I:252:LEU:HD11	1.22	1.52
26:S:471:LEU:HD22	28:U:292:ILE:CD1	1.38	1.52
33:Z:369:PHE:CE2	33:Z:859:LYS:HE3	1.41	1.51
16:I:249:GLY:C	16:I:252:LEU:CD1	1.82	1.47
28:U:276:ILE:HG12	29:V:291:ASN:ND2	1.22	1.45
18:K:343:LEU:CD2	18:K:344:ARG:H	1.30	1.45
3:h:20:THR:CB	3:h:36:ASP:CG	1.91	1.44
13:F:11:VAL:CG2	14:G:128:SER:O	1.66	1.43
25:R:373:PRO:HD3	26:S:395:ILE:CG2	1.46	1.43
33:Z:369:PHE:HB3	33:Z:390:LEU:CD2	1.48	1.43
23:P:107:SER:HB3	23:P:111:ASP:CB	1.47	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:342:SER:OG	18:K:379:SER:CA	1.65	1.41
26:S:472:HIS:O	26:S:475:TYR:CD1	1.71	1.41
22:O:11:LEU:HD21	22:O:14:LEU:CD1	1.44	1.40
29:V:241:THR:CG2	29:V:297:THR:HG21	1.53	1.37
7:l:76:THR:HG23	7:l:108:LYS:NZ	1.37	1.35
16:I:249:GLY:O	16:I:252:LEU:CD1	1.66	1.35
17:J:190:PRO:CG	17:J:318:PRO:O	1.77	1.33
25:R:200:LYS:O	25:R:207:ARG:NH2	1.58	1.33
26:S:471:LEU:HD13	28:U:288:PHE:O	1.21	1.32
16:I:249:GLY:CA	16:I:252:LEU:CD1	2.04	1.31
25:R:200:LYS:O	25:R:207:ARG:CZ	1.75	1.31
16:I:252:LEU:HD22	16:I:287:ILE:CD1	1.61	1.31
13:f:11:VAL:CG2	14:g:128:SER:O	1.79	1.30
16:I:249:GLY:HA2	16:I:252:LEU:CD1	1.62	1.28
17:J:190:PRO:HG2	17:J:318:PRO:O	1.26	1.28
26:S:390:THR:O	26:S:394:ILE:HD12	1.21	1.28
13:F:13:PHE:CE2	14:G:131:PRO:HD2	1.68	1.27
26:S:486:LYS:NZ	28:U:298:ASN:HB3	1.46	1.27
25:R:372:ILE:HB	26:S:395:ILE:CG2	1.64	1.26
7:l:110:ILE:HD13	7:l:131:GLU:OE1	1.17	1.26
12:E:240:ILE:O	12:E:243:LEU:HG	1.14	1.25
14:g:95:GLU:OE2	14:g:115:ARG:NH1	1.69	1.25
17:J:153:LEU:HB3	17:J:316:PHE:CZ	1.70	1.25
26:S:143:GLN:HG3	26:S:148:ASP:OD2	1.29	1.25
14:G:95:GLU:OE2	14:G:115:ARG:NH1	1.69	1.25
4:4:182:LYS:NZ	4:4:186:ASP:OD2	1.67	1.25
18:K:66:ASP:O	18:K:69:LYS:NZ	1.71	1.24
6:k:2:ASP:O	6:k:3:ILE:HG13	1.07	1.24
25:R:203:ASP:O	25:R:207:ARG:NH1	1.70	1.23
4:i:182:LYS:NZ	4:i:186:ASP:OD2	1.67	1.23
28:U:141:GLU:HG2	28:U:151:GLU:O	1.35	1.23
17:J:190:PRO:CD	17:J:318:PRO:O	1.87	1.22
26:S:428:ARG:NH1	27:T:157:TYR:OH	1.70	1.22
18:K:343:LEU:CD2	18:K:344:ARG:N	2.03	1.21
33:Z:369:PHE:CB	33:Z:390:LEU:HD21	1.70	1.21
28:U:140:ILE:N	28:U:153:THR:O	1.71	1.21
26:S:143:GLN:CG	26:S:148:ASP:OD2	1.87	1.20
13:F:11:VAL:HG21	14:G:128:SER:O	1.09	1.20
18:K:343:LEU:O	18:K:344:ARG:CG	1.90	1.20
18:K:343:LEU:O	18:K:344:ARG:HG2	1.04	1.20
28:U:140:ILE:CB	28:U:153:THR:HB	1.70	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:140:ILE:C	28:U:153:THR:H	1.50	1.19
28:U:290:ASP:OD1	29:V:277:LYS:HD2	1.39	1.18
4:4:58:LYS:NZ	5:5:151:GLU:OE2	1.76	1.18
13:f:11:VAL:HG21	14:g:128:SER:O	1.32	1.18
22:O:140:LYS:HA	22:O:181:PHE:CE1	1.78	1.18
4:i:58:LYS:NZ	5:j:151:GLU:OE2	1.74	1.18
33:Z:365:SER:O	33:Z:962:ARG:NH2	1.76	1.17
11:d:193:LYS:NZ	11:d:239:GLU:OE2	1.76	1.17
22:O:11:LEU:HD23	22:O:14:LEU:CB	1.74	1.17
11:D:193:LYS:NZ	11:D:239:GLU:OE2	1.76	1.17
25:R:422:ARG:NH1	28:U:303:GLU:OE1	1.77	1.17
7:7:110:ILE:HD13	7:7:131:GLU:OE1	1.40	1.17
26:S:293:ILE:HG23	26:S:297:ILE:HD11	1.21	1.16
33:Z:363:ASP:HA	33:Z:366:LYS:HD3	1.27	1.16
24:Q:413:LEU:CD1	25:R:406:GLN:CG	2.23	1.16
28:U:276:ILE:CG1	29:V:291:ASN:ND2	2.07	1.16
28:U:286:ILE:O	28:U:290:ASP:HB2	1.43	1.15
25:R:198:ILE:CG1	25:R:200:LYS:HG3	1.66	1.15
26:S:471:LEU:HD13	28:U:288:PHE:C	1.72	1.15
3:h:20:THR:HA	3:h:188:SER:HA	1.25	1.15
7:l:126:ASP:O	7:l:130:TRP:HB2	1.44	1.15
22:O:11:LEU:HD23	22:O:14:LEU:CD1	1.54	1.14
11:D:7:ALA:N	12:E:125:GLU:OE2	1.78	1.14
13:F:11:VAL:HG21	14:G:128:SER:C	1.71	1.14
4:i:203:ASP:OD2	4:i:217:ARG:NH1	1.79	1.14
26:S:479:MET:SD	28:U:291:LEU:HD12	1.87	1.13
4:4:203:ASP:OD2	4:4:217:ARG:NH1	1.80	1.13
26:S:471:LEU:HB3	28:U:288:PHE:HA	1.17	1.13
22:O:15:ARG:O	22:O:17:GLU:HG2	1.45	1.13
29:V:108:TYR:CE1	29:V:141:VAL:HG21	1.82	1.13
17:J:43:ARG:NH1	26:S:476:LEU:O	1.81	1.12
25:R:200:LYS:O	25:R:207:ARG:NH1	1.79	1.12
7:7:267:ASP:OD1	5:j:203:ARG:NH1	1.82	1.12
13:F:126:ARG:NH1	13:F:127:PRO:O	1.81	1.12
24:Q:423:VAL:HG12	25:R:417:TYR:HE1	1.14	1.12
10:c:4:ARG:HA	11:d:6:ARG:HH12	1.02	1.12
29:V:107:TRP:O	29:V:139:VAL:N	1.83	1.12
8:a:243:GLU:CD	8:a:244:ARG:HH12	1.55	1.12
13:F:13:PHE:HE2	14:G:131:PRO:HD2	1.01	1.11
17:J:317:PRO:HB2	17:J:318:PRO:HA	1.32	1.11
23:P:130:ILE:O	23:P:136:ARG:NH1	1.82	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:37:MET:HG2	29:V:108:TYR:CD2	1.85	1.11
3:h:20:THR:CB	3:h:36:ASP:OD1	1.98	1.11
17:J:318:PRO:HD2	17:J:319:PRO:HA	1.30	1.11
28:U:140:ILE:CB	28:U:153:THR:CB	2.28	1.11
13:f:126:ARG:NH1	13:f:127:PRO:O	1.81	1.11
25:R:372:ILE:HB	26:S:395:ILE:HG22	1.22	1.11
26:S:472:HIS:O	26:S:475:TYR:CE1	2.02	1.11
22:O:11:LEU:HD23	22:O:14:LEU:CG	1.81	1.11
25:R:285:ALA:O	25:R:286:LEU:CD2	1.98	1.11
28:U:297:GLN:O	28:U:301:ILE:HD12	1.48	1.11
33:Z:369:PHE:CE2	33:Z:859:LYS:CE	2.34	1.11
33:Z:369:PHE:CD2	33:Z:859:LYS:HE3	1.85	1.11
16:I:250:SER:O	16:I:253:ILE:HG22	1.50	1.10
33:Z:362:LEU:O	33:Z:366:LYS:HB3	1.51	1.10
14:g:175:GLU:OE2	14:g:178:LYS:NZ	1.84	1.10
20:M:352:PRO:O	20:M:357:ARG:NH1	1.84	1.10
21:N:774:ASN:N	21:N:869:ASP:OD2	1.83	1.10
6:k:1:MET:HA	6:k:1:MET:HE2	1.31	1.10
23:P:422:LEU:HB3	23:P:426:ILE:CD1	1.79	1.10
24:Q:423:VAL:HG12	25:R:417:TYR:CE1	1.86	1.10
25:R:373:PRO:HD3	26:S:395:ILE:HG23	1.16	1.10
21:N:726:ASP:OD2	21:N:729:SER:N	1.82	1.10
29:V:37:MET:SD	29:V:68:VAL:HG21	1.92	1.10
6:k:2:ASP:O	6:k:3:ILE:CG1	1.99	1.10
13:f:123:TYR:HB3	14:g:128:SER:HB2	1.29	1.09
14:g:126:TYR:HB2	14:g:129:VAL:HG22	1.32	1.09
3:3:38:ARG:NH1	3:3:186:GLY:O	1.86	1.09
18:K:343:LEU:HD22	18:K:344:ARG:N	1.64	1.09
22:O:11:LEU:CD2	22:O:14:LEU:HD13	1.81	1.09
25:R:373:PRO:CD	26:S:395:ILE:CG2	2.31	1.09
7:l:76:THR:CG2	7:l:108:LYS:NZ	2.16	1.09
25:R:372:ILE:CB	26:S:395:ILE:HG22	1.82	1.09
30:W:67:ALA:O	30:W:71:LYS:NZ	1.86	1.09
2:2:42:THR:O	2:2:74:ARG:NH1	1.85	1.09
2:9:42:THR:O	2:9:74:ARG:NH1	1.86	1.09
24:Q:417:GLY:O	24:Q:421:LYS:NZ	1.86	1.09
26:S:471:LEU:CD2	28:U:292:ILE:CD1	2.30	1.08
3:3:20:THR:CB	3:3:36:ASP:CG	2.25	1.08
8:A:39:ASN:O	8:A:58:LYS:NZ	1.87	1.08
14:G:175:GLU:OE2	14:G:178:LYS:NZ	1.84	1.08
3:h:38:ARG:NH1	3:h:186:GLY:O	1.86	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:15:ARG:CB	30:W:18:ASN:OD1	2.00	1.08
16:I:252:LEU:HD22	16:I:287:ILE:HD13	1.28	1.08
28:U:276:ILE:HG12	29:V:291:ASN:CG	1.79	1.07
17:J:48:ARG:HH12	21:N:611:LYS:HB3	1.05	1.07
23:P:107:SER:HB3	23:P:111:ASP:HB3	1.35	1.07
13:F:13:PHE:HE2	14:G:131:PRO:CD	1.66	1.07
29:V:241:THR:HG23	29:V:297:THR:CG2	1.83	1.07
1:8:29:GLY:O	1:8:74:ASN:ND2	1.87	1.06
25:R:147:LYS:NZ	25:R:177:LEU:O	1.87	1.06
26:S:405:ARG:HA	26:S:408:CYS:HB2	1.37	1.06
12:e:151:ASP:HB3	12:e:166:ARG:HH12	1.16	1.06
7:l:110:ILE:CD1	7:l:131:GLU:OE1	2.03	1.06
3:3:36:ASP:OD1	3:3:52:LYS:NZ	1.89	1.06
12:E:151:ASP:HB3	12:E:166:ARG:HH12	1.16	1.06
28:U:297:GLN:O	28:U:301:ILE:CD1	2.03	1.06
3:h:20:THR:CB	3:h:36:ASP:OD2	2.03	1.06
3:h:36:ASP:OD1	3:h:52:LYS:NZ	1.89	1.06
26:S:471:LEU:HD22	28:U:292:ILE:HD11	1.13	1.06
27:T:252:GLU:HB2	27:T:256:LYS:HG3	1.32	1.06
8:a:39:ASN:O	8:a:58:LYS:NZ	1.87	1.06
29:V:23:THR:N	29:V:25:GLU:OE2	1.89	1.06
5:5:103:TYR:HA	6:6:93:ARG:HH22	1.20	1.05
17:J:190:PRO:HG2	17:J:318:PRO:C	1.79	1.05
19:L:149:ASP:OD2	19:L:152:THR:N	1.89	1.05
33:Z:365:SER:O	33:Z:962:ARG:CZ	2.03	1.05
33:Z:366:LYS:NZ	33:Z:367:SER:O	1.88	1.05
3:3:155:GLY:HA2	3:h:180:GLN:HE21	1.20	1.05
16:I:252:LEU:HD22	16:I:287:ILE:HD11	1.35	1.05
17:J:190:PRO:HB2	17:J:319:PRO:HD3	1.08	1.05
21:N:318:LYS:HZ2	21:N:348:PHE:HB2	1.19	1.05
30:W:25:ARG:HH12	30:W:144:PHE:HB3	1.21	1.05
15:H:176:VAL:H	15:H:189:PRO:HG3	1.21	1.05
23:P:107:SER:HB3	23:P:111:ASP:CG	1.80	1.05
28:U:20:ASP:OD2	29:V:100:ARG:NH2	1.89	1.05
29:V:37:MET:SD	29:V:68:VAL:CG2	2.44	1.05
25:R:372:ILE:CG2	26:S:395:ILE:H	1.70	1.05
23:P:108:LYS:O	23:P:111:ASP:N	1.88	1.04
26:S:471:LEU:HD22	28:U:292:ILE:HD13	1.35	1.04
33:Z:363:ASP:O	33:Z:366:LYS:HG2	1.55	1.04
3:h:20:THR:HA	3:h:188:SER:CA	1.86	1.04
15:H:150:LYS:NZ	15:H:152:ILE:O	1.89	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:403:ILE:O	20:M:203:ARG:NH1	1.90	1.04
20:M:377:GLN:HB2	20:M:381:ARG:HH12	1.17	1.04
26:S:24:LYS:O	26:S:27:GLU:N	1.89	1.04
26:S:390:THR:O	26:S:394:ILE:CD1	2.05	1.04
11:d:127:ARG:NH1	11:d:128:PRO:O	1.89	1.04
10:C:4:ARG:HA	11:D:6:ARG:HH12	1.19	1.04
13:F:106:GLU:OE2	13:F:110:HIS:NE2	1.91	1.04
26:S:425:ARG:HH11	27:T:156:SER:N	1.54	1.04
27:T:104:LYS:NZ	27:T:169:GLN:OE1	1.90	1.04
1:1:237:GLU:OE2	2:2:194:ARG:NH1	1.90	1.04
13:f:106:GLU:OE2	13:f:110:HIS:NE2	1.91	1.04
11:D:127:ARG:NH1	11:D:128:PRO:O	1.88	1.04
22:O:11:LEU:HA	22:O:14:LEU:HB2	1.05	1.04
5:5:203:ARG:NH1	7:l:267:ASP:OD1	1.90	1.03
6:k:18:SER:O	6:k:34:LYS:NZ	1.91	1.03
18:K:343:LEU:HD23	18:K:344:ARG:H	0.93	1.03
23:P:47:ARG:HG3	23:P:49:ALA:H	1.19	1.03
24:Q:413:LEU:HD11	25:R:406:GLN:HG3	1.34	1.03
24:Q:413:LEU:HD11	25:R:406:GLN:CG	1.87	1.03
26:S:280:ASN:HA	26:S:283:GLN:HB2	1.40	1.03
10:C:179:ASP:OD2	10:C:199:LYS:NZ	1.91	1.03
16:I:249:GLY:O	16:I:252:LEU:HD13	1.52	1.03
7:7:127:CYS:O	7:7:131:GLU:HB2	1.59	1.03
2:9:42:THR:HG23	2:9:74:ARG:NH2	1.73	1.03
26:S:408:CYS:O	26:S:412:ASN:N	1.89	1.03
26:S:486:LYS:HZ1	28:U:298:ASN:HB3	0.93	1.03
8:a:119:LYS:NZ	4:i:98:TYR:O	1.90	1.03
10:c:179:ASP:OD2	10:c:199:LYS:NZ	1.91	1.03
16:I:179:GLU:HB2	16:I:234:LYS:HB2	1.41	1.03
23:P:107:SER:CB	23:P:111:ASP:CB	2.36	1.03
23:P:280:LEU:HD22	23:P:283:LYS:HZ1	1.24	1.03
15:H:144:LYS:HZ3	15:H:155:PHE:HE2	1.06	1.02
24:Q:423:VAL:CG1	25:R:417:TYR:CE1	2.42	1.02
30:W:158:ILE:HG13	30:W:171:LEU:HB2	1.40	1.02
21:N:712:ASN:OD1	21:N:873:ARG:NH1	1.92	1.02
25:R:372:ILE:HG21	26:S:395:ILE:H	1.21	1.02
26:S:293:ILE:CG2	26:S:297:ILE:HD11	1.89	1.02
27:T:254:ASP:O	27:T:258:ASN:N	1.91	1.02
1:1:54:ILE:HB	2:2:189:ARG:HH12	1.25	1.02
12:E:35:SER:OG	12:E:66:LYS:NZ	1.93	1.02
22:O:15:ARG:NH2	30:W:144:PHE:C	2.18	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:42:THR:HG23	2:2:74:ARG:NH2	1.74	1.02
6:6:18:SER:O	6:6:34:LYS:NZ	1.91	1.02
12:E:240:ILE:O	12:E:243:LEU:CG	2.07	1.02
17:J:182:PRO:O	17:J:289:LYS:NZ	1.91	1.02
27:T:182:LYS:HB3	27:T:186:ARG:HH12	1.21	1.02
16:I:172:LYS:HB3	16:I:246:ARG:HB3	1.38	1.01
21:N:25:LEU:HB3	21:N:60:MET:HG2	1.41	1.01
1:8:237:GLU:OE2	2:9:194:ARG:NH1	1.93	1.01
11:D:37:LYS:NZ	12:E:60:GLU:OE2	1.92	1.01
17:J:318:PRO:CD	17:J:319:PRO:HA	1.88	1.01
25:R:198:ILE:HG12	25:R:200:LYS:CG	1.89	1.01
26:S:221:ALA:HB3	26:S:230:LYS:HZ3	1.25	1.01
12:e:35:SER:OG	12:e:66:LYS:NZ	1.93	1.01
3:3:38:ARG:N	3:3:52:LYS:HZ1	1.58	1.01
13:F:123:TYR:CB	14:G:128:SER:HB2	1.91	1.01
16:I:423:VAL:O	17:J:306:ARG:NH1	1.93	1.01
17:J:26:LYS:NZ	21:N:103:SER:O	1.92	1.01
22:O:15:ARG:NH2	30:W:144:PHE:O	1.93	1.01
24:Q:391:ASP:HB3	24:Q:394:ASN:HB2	1.38	1.01
25:R:78:ASP:HA	25:R:93:LYS:HA	1.42	1.01
25:R:285:ALA:O	25:R:286:LEU:HD23	1.54	1.01
30:W:67:ALA:HB3	30:W:68:GLU:HB2	1.37	1.01
33:Z:391:ASN:OD1	33:Z:859:LYS:NZ	1.92	1.01
14:G:87:HIS:HD2	14:G:132:PHE:HE2	1.02	1.01
26:S:222:SER:OG	26:S:226:ASP:OD2	1.76	1.01
31:X:14:VAL:HG22	31:X:33:ILE:HD12	1.43	1.01
6:6:169:GLU:O	6:k:177:LYS:NZ	1.92	1.00
18:K:128:ARG:NH1	18:K:129:GLU:OE2	1.93	1.00
14:G:126:TYR:O	14:G:129:VAL:HG22	1.59	1.00
16:I:148:LEU:HB3	16:I:157:VAL:HB	1.41	1.00
20:M:377:GLN:HB2	20:M:381:ARG:NH1	1.76	1.00
3:h:38:ARG:N	3:h:52:LYS:HZ1	1.58	1.00
18:K:298:GLU:OE2	18:K:302:GLN:NE2	1.94	1.00
29:V:48:GLU:HB3	29:V:109:HIS:HB3	1.42	1.00
13:f:11:VAL:HG23	14:g:128:SER:O	1.60	1.00
18:K:127:ASP:OD2	29:V:273:ARG:N	1.95	1.00
22:O:108:GLU:HA	22:O:112:LYS:HB2	1.41	1.00
26:S:425:ARG:NH1	27:T:151:TRP:O	1.95	1.00
3:h:20:THR:O	3:h:148:SER:OG	1.79	1.00
33:Z:770:GLU:HA	33:Z:773:ARG:HB2	1.44	1.00
25:R:120:LEU:HA	25:R:125:GLU:HB3	1.41	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:44:ASP:OD2	14:G:222:SER:N	1.95	0.99
17:J:190:PRO:CB	17:J:319:PRO:HD3	1.91	0.99
25:R:382:ASP:OD2	25:R:385:ASN:N	1.95	0.99
11:d:141:ARG:HE	7:l:182:LYS:HD2	1.25	0.99
11:d:180:ASP:OD2	11:d:183:GLU:N	1.94	0.99
6:6:177:LYS:NZ	6:k:169:GLU:O	1.93	0.99
23:P:107:SER:CB	23:P:111:ASP:HB3	1.91	0.99
30:W:66:THR:HG23	30:W:68:GLU:HB3	1.43	0.99
11:d:111:ARG:NH2	7:l:145:GLU:OE2	1.96	0.99
11:D:180:ASP:OD2	11:D:183:GLU:N	1.94	0.99
25:R:77:SER:HA	25:R:83:GLU:HA	1.42	0.99
15:H:101:ARG:NH1	16:I:125:MET:O	1.94	0.99
29:V:108:TYR:CZ	29:V:141:VAL:HG21	1.97	0.99
17:J:49:ASN:HA	21:N:611:LYS:HZ2	1.26	0.99
25:R:382:ASP:HA	26:S:399:TYR:HB2	1.42	0.99
28:U:141:GLU:N	28:U:153:THR:HB	1.77	0.98
21:N:665:ILE:HG12	21:N:706:MET:HA	1.44	0.98
24:Q:202:ARG:NH2	24:Q:222:SER:OG	1.96	0.98
20:M:17:GLU:HA	30:W:69:PHE:HZ	1.28	0.98
29:V:244:MET:HA	29:V:247:ILE:HG23	1.46	0.98
14:g:44:ASP:OD2	14:g:222:SER:N	1.95	0.98
2:2:135:GLN:HB3	2:2:139:LYS:NZ	1.78	0.98
23:P:413:ASN:O	23:P:417:HIS:N	1.95	0.98
26:S:144:LEU:HD22	26:S:155:LEU:HD13	1.46	0.98
28:U:140:ILE:CA	28:U:153:THR:O	2.11	0.98
30:W:66:THR:CG2	30:W:68:GLU:HB3	1.93	0.98
17:J:141:LYS:HA	17:J:209:LYS:HG3	1.45	0.98
14:G:126:TYR:HB2	14:G:129:VAL:HG13	1.46	0.98
22:O:15:ARG:O	22:O:17:GLU:CG	2.10	0.98
28:U:140:ILE:C	28:U:153:THR:N	2.21	0.98
32:Y:80:GLU:OE1	32:Y:83:ARG:NH2	1.96	0.98
10:C:64:GLU:N	10:C:212:GLU:OE2	1.96	0.98
24:Q:413:LEU:HD13	25:R:406:GLN:CG	1.88	0.98
25:R:60:ALA:O	25:R:64:LYS:N	1.95	0.98
7:l:127:CYS:O	7:l:131:GLU:HB2	1.63	0.98
22:O:166:ARG:HH12	22:O:170:SER:HB2	1.25	0.97
10:c:185:LYS:HE3	10:c:187:ASP:HB2	1.46	0.97
8:A:91:ARG:NH2	14:G:157:TYR:O	1.96	0.97
21:N:321:LEU:HG	21:N:323:GLY:H	1.27	0.97
10:c:64:GLU:N	10:c:212:GLU:OE2	1.96	0.97
7:l:206:SER:OG	7:l:243:ASP:OD2	1.81	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:219:LYS:NZ	18:K:318:THR:O	1.97	0.97
22:O:65:PHE:HB2	22:O:72:LYS:HG2	1.47	0.97
16:I:249:GLY:HA2	16:I:252:LEU:HD11	0.99	0.97
7:7:206:SER:OG	7:7:243:ASP:OD2	1.81	0.97
1:8:54:ILE:HB	2:9:189:ARG:HH12	1.27	0.97
12:E:153:TYR:O	12:E:166:ARG:NH2	1.97	0.97
16:I:383:THR:OG1	16:I:420:LYS:NZ	1.97	0.97
25:R:152:LYS:HB3	25:R:156:LYS:HZ1	1.27	0.97
29:V:241:THR:HG23	29:V:297:THR:HG21	0.98	0.97
30:W:19:GLY:HA2	30:W:25:ARG:H	1.25	0.97
32:Y:80:GLU:OE2	32:Y:84:TYR:HB2	1.64	0.97
11:d:87:GLU:OE2	6:k:70:ARG:NH2	1.96	0.97
12:e:153:TYR:O	12:e:166:ARG:NH2	1.97	0.97
14:g:87:HIS:HD2	14:g:132:PHE:HE2	1.02	0.97
8:A:72:ILE:N	8:A:224:GLU:OE2	1.97	0.97
17:J:153:LEU:HB3	17:J:316:PHE:HZ	1.15	0.97
27:T:206:LYS:HG3	27:T:211:PHE:HB2	1.47	0.97
29:V:108:TYR:CE1	29:V:141:VAL:CG2	2.48	0.97
29:V:237:ASN:HB2	29:V:238:LEU:HB3	1.44	0.97
3:3:20:THR:O	3:3:148:SER:N	1.98	0.97
22:O:15:ARG:HB2	30:W:18:ASN:OD1	1.60	0.97
23:P:383:LEU:HA	23:P:386:GLN:HB2	1.46	0.97
6:k:67:TYR:HA	6:k:70:ARG:HH11	1.29	0.97
21:N:246:LYS:NZ	21:N:281:GLY:O	1.96	0.97
26:S:486:LYS:NZ	28:U:298:ASN:CB	2.27	0.96
27:T:252:GLU:HB3	27:T:255:GLN:HB2	1.45	0.96
8:a:72:ILE:N	8:a:224:GLU:OE2	1.97	0.96
18:K:207:ARG:NH1	18:K:303:MET:O	1.98	0.96
16:I:249:GLY:C	16:I:252:LEU:HD12	1.88	0.96
18:K:347:ARG:NH1	24:Q:219:ASP:OD1	1.97	0.96
26:S:471:LEU:CD1	28:U:288:PHE:O	2.12	0.96
28:U:174:LEU:O	28:U:176:ARG:NH1	1.96	0.96
3:h:12:LYS:NZ	4:i:120:GLN:OE1	1.99	0.96
11:D:193:LYS:HZ1	11:D:235:GLN:HG2	1.29	0.96
22:O:95:SER:O	22:O:99:LEU:N	1.98	0.96
26:S:479:MET:SD	28:U:291:LEU:CD1	2.52	0.96
11:D:32:CYS:N	11:D:47:GLU:OE2	1.98	0.96
13:F:11:VAL:HG23	14:G:128:SER:O	1.63	0.96
17:J:26:LYS:NZ	21:N:106:ILE:HB	1.80	0.96
21:N:311:ILE:O	21:N:315:ASN:N	1.99	0.96
23:P:108:LYS:O	23:P:112:LEU:N	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:383:LEU:HD23	26:S:386:ASN:HD22	1.31	0.96
17:J:26:LYS:HZ1	21:N:106:ILE:HB	1.30	0.96
18:K:343:LEU:HD23	18:K:344:ARG:N	1.73	0.96
11:d:193:LYS:HZ2	11:d:235:GLN:HG2	1.29	0.96
2:9:135:GLN:HB3	2:9:139:LYS:NZ	1.78	0.96
20:M:269:LEU:O	20:M:273:LYS:NZ	1.99	0.96
4:i:48:ARG:NH1	4:i:196:LEU:O	1.98	0.96
18:K:120:VAL:O	18:K:121:ARG:NH1	1.97	0.96
23:P:435:LYS:HZ1	28:U:156:HIS:H	1.11	0.96
11:d:32:CYS:N	11:d:47:GLU:OE2	1.98	0.96
15:H:101:ARG:H	15:H:173:ARG:HD2	1.29	0.95
23:P:147:LYS:HZ2	23:P:159:ILE:HG21	1.31	0.95
15:H:253:GLY:H	15:H:256:LYS:HB3	1.26	0.95
25:R:369:GLY:CA	26:S:395:ILE:HB	1.96	0.95
26:S:293:ILE:HG23	26:S:297:ILE:CD1	1.95	0.95
4:4:48:ARG:NH1	4:4:196:LEU:O	1.98	0.95
7:l:76:THR:CB	7:l:108:LYS:HZ3	1.78	0.95
23:P:390:TYR:HB3	23:P:403:GLU:HB3	1.46	0.95
28:U:7:LYS:HZ1	28:U:158:PRO:HB2	1.26	0.95
28:U:141:GLU:CA	28:U:153:THR:N	2.29	0.95
7:l:94:ARG:NH1	7:l:244:ALA:O	2.00	0.95
22:O:185:PHE:HA	22:O:188:PHE:HB3	1.46	0.95
24:Q:61:LEU:O	24:Q:65:TYR:N	1.99	0.95
16:I:249:GLY:O	16:I:252:LEU:HD12	1.66	0.95
18:K:106:ASN:HA	18:K:122:ILE:HG12	1.43	0.95
24:Q:24:GLU:HA	24:Q:27:TYR:HB2	1.46	0.95
19:L:109:MET:H	19:L:119:VAL:HA	1.31	0.95
22:O:76:LEU:HB3	22:O:80:LYS:HE2	1.45	0.95
7:7:94:ARG:NH1	7:7:244:ALA:O	2.00	0.95
8:A:68:THR:HG21	14:G:159:GLY:HA3	1.46	0.95
10:C:185:LYS:HE3	10:C:187:ASP:HB2	1.46	0.95
16:I:216:PRO:O	16:I:323:LYS:NZ	1.99	0.95
16:I:248:VAL:O	16:I:252:LEU:HG	1.67	0.95
23:P:427:GLU:OE1	29:V:234:GLU:OE1	1.85	0.95
24:Q:413:LEU:HD13	25:R:406:GLN:HG3	0.95	0.95
25:R:123:ASP:HB2	25:R:125:GLU:HB2	1.49	0.95
25:R:41:GLU:HA	25:R:44:LYS:HB3	1.45	0.94
18:K:343:LEU:O	18:K:378:LEU:O	1.85	0.94
21:N:200:SER:O	21:N:204:SER:N	2.00	0.94
22:O:370:LEU:HB3	28:U:200:LEU:HD13	1.45	0.94
11:d:116:VAL:HA	11:d:119:ARG:NH1	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:21:PHE:HZ	2:9:137:ARG:HG3	1.32	0.94
8:A:43:LEU:HA	8:A:170:ALA:HA	1.49	0.94
8:A:91:ARG:HH12	14:G:157:TYR:H	0.96	0.94
23:P:107:SER:HB3	23:P:111:ASP:HB2	1.48	0.94
26:S:293:ILE:CG2	26:S:297:ILE:CD1	2.45	0.94
13:F:123:TYR:HB3	14:G:128:SER:HB2	1.49	0.94
16:I:252:LEU:CD2	16:I:287:ILE:HD11	1.97	0.94
19:L:345:ARG:NH1	19:L:346:LYS:O	2.00	0.94
28:U:141:GLU:C	28:U:153:THR:OG1	2.11	0.94
6:6:67:TYR:HA	6:6:70:ARG:HH11	1.29	0.94
17:J:48:ARG:NH1	21:N:611:LYS:HB3	1.83	0.94
18:K:342:SER:OG	18:K:379:SER:HA	0.76	0.94
28:U:259:ASN:HB2	28:U:261:LEU:HG	1.48	0.94
6:k:185:ASP:CG	6:k:190:ARG:HH12	1.76	0.94
10:C:13:PHE:H	11:D:19:GLN:HE22	1.14	0.94
18:K:122:ILE:HA	18:K:146:LEU:HB3	1.49	0.94
23:P:423:LEU:O	23:P:427:GLU:HB3	1.65	0.94
28:U:15:LEU:HB3	29:V:212:MET:HE2	1.45	0.94
30:W:29:GLN:NE2	30:W:115:CYS:SG	2.41	0.94
17:J:40:ASN:OD1	26:S:480:ARG:NH2	2.01	0.93
21:N:614:ASN:HD21	21:N:616:HIS:HB2	1.31	0.93
28:U:140:ILE:CB	28:U:153:THR:CG2	2.46	0.93
16:I:97:GLU:OE2	17:J:83:LYS:NZ	1.99	0.93
23:P:427:GLU:HA	29:V:234:GLU:CD	1.92	0.93
26:S:390:THR:HA	26:S:393:ARG:HH12	1.32	0.93
27:T:169:GLN:HG3	27:T:174:PHE:HB2	1.48	0.93
30:W:12:ASN:HD22	30:W:79:THR:HB	1.31	0.93
22:O:15:ARG:HB3	30:W:18:ASN:OD1	1.68	0.93
24:Q:160:ASP:OD1	24:Q:163:ARG:NH2	2.01	0.93
24:Q:391:ASP:HB2	24:Q:396:TRP:H	1.30	0.93
26:S:425:ARG:NH2	27:T:150:ARG:O	2.01	0.93
18:K:127:ASP:H	18:K:130:LEU:HB2	1.31	0.93
22:O:310:PHE:HD1	22:O:348:VAL:HG22	1.34	0.93
30:W:25:ARG:NH1	30:W:144:PHE:HB3	1.82	0.93
30:W:49:VAL:H	30:W:71:LYS:HZ1	1.07	0.93
27:T:76:ASP:O	27:T:80:ASN:N	2.02	0.93
29:V:205:LYS:HG2	29:V:206:THR:HG22	1.50	0.93
21:N:659:ALA:HA	21:N:662:MET:HE2	1.50	0.93
12:e:35:SER:HB3	12:e:51:GLU:HB3	1.49	0.93
5:j:161:GLU:HA	5:j:164:PHE:HB3	1.50	0.93
14:G:11:SER:HB3	14:G:127:ASN:HB2	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:740:TRP:HE3	29:V:24:LYS:NZ	1.64	0.93
22:O:138:LEU:HD12	22:O:177:GLN:NE2	1.84	0.93
2:2:164:ASN:HD21	2:2:168:VAL:HB	1.33	0.93
5:5:10:GLY:HA3	5:5:42:LYS:HE2	1.51	0.93
11:D:116:VAL:HA	11:D:119:ARG:HH12	1.33	0.93
21:N:492:THR:HA	21:N:528:ARG:HD2	1.48	0.93
29:V:241:THR:CG2	29:V:297:THR:CG2	2.42	0.93
29:V:264:GLU:OE1	29:V:280:LEU:HD23	1.68	0.93
13:f:11:VAL:HG21	14:g:128:SER:C	1.93	0.93
11:D:116:VAL:HA	11:D:119:ARG:NH1	1.83	0.93
26:S:351:ALA:HA	26:S:359:LYS:NZ	1.84	0.93
28:U:281:LEU:O	28:U:285:ILE:CB	2.17	0.93
9:B:48:GLU:O	9:B:63:LYS:NZ	2.02	0.93
19:L:365:THR:HB	19:L:370:LYS:NZ	1.84	0.93
25:R:172:LEU:HB3	25:R:176:ARG:HH12	1.32	0.93
3:3:88:GLN:HA	8:A:98:LYS:HZ3	1.32	0.92
8:A:147:ASP:OD2	8:A:150:LEU:N	2.01	0.92
22:O:303:LYS:HA	28:U:260:ASN:HD22	1.33	0.92
26:S:428:ARG:HH12	27:T:157:TYR:HH	1.06	0.92
29:V:254:ARG:HG2	29:V:287:THR:OG1	1.67	0.92
33:Z:106:TRP:O	33:Z:112:LYS:NZ	2.01	0.92
22:O:310:PHE:HZ	22:O:341:ILE:HG23	1.31	0.92
25:R:247:GLU:OE2	25:R:285:ALA:CB	2.17	0.92
25:R:358:GLY:HA3	32:Y:86:ARG:HD3	1.51	0.92
12:E:82:THR:O	12:E:86:ARG:NH1	2.02	0.92
22:O:95:SER:HB3	22:O:135:ARG:HD2	1.49	0.92
23:P:110:LEU:HD23	23:P:113:ASN:HD22	1.35	0.92
23:P:404:LYS:HE3	23:P:406:LYS:HB3	1.50	0.92
28:U:24:ARG:NH1	29:V:99:GLY:O	2.02	0.92
2:9:164:ASN:HD21	2:9:168:VAL:HB	1.33	0.92
8:A:176:GLN:HE21	8:A:180:THR:HG23	1.35	0.92
28:U:124:ASP:OD2	28:U:128:GLN:N	2.01	0.92
32:Y:81:LEU:O	32:Y:85:LYS:N	2.00	0.92
8:a:176:GLN:HE21	8:a:180:THR:HG23	1.35	0.92
8:a:147:ASP:OD2	8:a:150:LEU:N	2.01	0.92
18:K:113:THR:HG21	19:L:126:ARG:HB2	1.52	0.92
29:V:27:VAL:HA	29:V:63:VAL:HB	1.51	0.92
8:a:43:LEU:HA	8:a:170:ALA:HA	1.49	0.92
12:e:82:THR:O	12:e:86:ARG:NH1	2.02	0.92
15:H:428:MET:O	15:H:432:ARG:N	2.01	0.92
26:S:335:GLN:O	26:S:337:ASN:ND2	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:254:ARG:CG	29:V:287:THR:OG1	2.18	0.92
25:R:373:PRO:HD3	26:S:395:ILE:HG21	1.51	0.92
29:V:27:VAL:HB	29:V:201:ILE:HA	1.52	0.92
3:h:12:LYS:N	3:h:15:GLU:OE2	2.03	0.92
6:6:185:ASP:CG	6:6:190:ARG:HH12	1.76	0.92
28:U:290:ASP:OD1	29:V:277:LYS:CD	2.17	0.92
33:Z:531:ALA:HB2	33:Z:569:ALA:HA	1.49	0.92
3:h:12:LYS:HE2	4:i:120:GLN:HB3	1.50	0.92
3:3:12:LYS:N	3:3:15:GLU:OE2	2.03	0.91
29:V:238:LEU:N	29:V:241:THR:OG1	2.03	0.91
9:b:48:GLU:O	9:b:63:LYS:NZ	2.02	0.91
5:5:161:GLU:HA	5:5:164:PHE:HB3	1.50	0.91
21:N:29:ASN:OD1	21:N:67:LYS:NZ	2.03	0.91
21:N:468:GLU:O	21:N:472:ASN:N	2.03	0.91
26:S:321:GLN:HB3	26:S:326:ASP:HB2	1.51	0.91
29:V:29:ILE:H	29:V:203:TYR:HA	1.33	0.91
2:9:136:ARG:NE	2:9:141:ASN:O	2.03	0.91
10:C:186:VAL:HB	10:C:217:ARG:HH21	1.35	0.91
3:h:40:THR:HA	3:h:45:ILE:HA	1.52	0.91
12:E:35:SER:HB3	12:E:51:GLU:HB3	1.49	0.91
12:E:128:SER:H	13:F:125:GLY:HA3	1.33	0.91
21:N:775:CYS:HG	21:N:883:SER:HG	1.15	0.91
24:Q:420:ASN:O	24:Q:424:ASP:N	2.03	0.91
28:U:9:THR:HB	28:U:47:ARG:HA	1.51	0.91
5:5:141:THR:OG1	5:5:178:ASP:OD2	1.89	0.91
6:6:142:SER:HB2	7:l:214:VAL:HG23	1.51	0.91
23:P:110:LEU:O	23:P:114:THR:N	2.03	0.91
25:R:23:ASN:N	25:R:242:GLU:OE1	2.03	0.91
28:U:283:ARG:HB2	29:V:288:LEU:HD23	1.53	0.91
2:2:136:ARG:NE	2:2:141:ASN:O	2.03	0.91
13:F:80:ASP:OD2	13:F:129:GLY:N	2.03	0.91
22:O:11:LEU:HD21	22:O:14:LEU:HD13	1.43	0.91
26:S:182:LYS:O	26:S:186:TYR:N	2.02	0.91
28:U:77:ASN:HB3	28:U:81:LYS:NZ	1.86	0.91
9:b:90:ARG:NH1	4:i:97:LEU:HB3	1.84	0.91
13:F:121:GLN:HA	14:G:130:ARG:HE	1.33	0.91
21:N:241:LEU:O	21:N:245:LEU:N	2.03	0.91
6:k:148:TYR:O	6:k:149:ARG:NH1	2.04	0.91
21:N:758:VAL:H	21:N:871:MET:HA	1.35	0.91
26:S:290:ASN:HB2	26:S:320:ILE:HG21	1.50	0.91
28:U:288:PHE:O	28:U:292:ILE:HD12	1.71	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:171:VAL:HG23	11:D:198:SER:HB2	1.53	0.91
23:P:108:LYS:C	23:P:112:LEU:H	1.79	0.91
28:U:209:GLU:O	28:U:213:LYS:N	2.04	0.91
5:j:141:THR:OG1	5:j:178:ASP:OD2	1.89	0.91
6:6:148:TYR:O	6:6:149:ARG:NH1	2.04	0.90
11:D:194:LEU:HA	11:D:197:ARG:HD3	1.53	0.90
17:J:190:PRO:HB2	17:J:319:PRO:CD	1.99	0.90
23:P:362:LEU:HA	23:P:365:LEU:HD12	1.53	0.90
25:R:126:GLY:HA3	25:R:129:GLU:HB2	1.49	0.90
26:S:475:TYR:CD1	26:S:476:LEU:N	2.39	0.90
28:U:137:TYR:HE1	28:U:156:HIS:HB2	1.36	0.90
33:Z:493:LEU:HA	33:Z:496:ALA:HB3	1.51	0.90
11:d:178:ASN:OD1	11:d:197:ARG:NH2	2.04	0.90
2:2:42:THR:CG2	2:2:74:ARG:NH2	2.34	0.90
2:2:54:ILE:HG12	2:2:232:ILE:HG12	1.53	0.90
15:H:387:ASN:OD1	15:H:390:ARG:NH1	2.04	0.90
17:J:26:LYS:NZ	21:N:107:GLU:H	1.69	0.90
23:P:396:PRO:HD3	24:Q:361:HIS:HE1	1.31	0.90
24:Q:20:TYR:O	24:Q:24:GLU:N	2.03	0.90
13:f:80:ASP:OD2	13:f:129:GLY:N	2.03	0.90
2:9:117:GLU:HB3	13:F:139:LYS:HE3	1.51	0.90
18:K:157:SER:HA	18:K:159:SER:H	1.35	0.90
22:O:45:LEU:HD13	30:W:14:GLU:OE2	1.71	0.90
25:R:414:LEU:HD22	26:S:471:LEU:CD1	2.01	0.90
6:k:22:THR:O	6:k:23:ARG:NH1	2.05	0.90
20:M:373:ASP:HB2	20:M:411:LYS:HB2	1.51	0.90
28:U:276:ILE:HG12	29:V:291:ASN:HD21	1.11	0.90
29:V:208:LYS:HA	29:V:211:LYS:HZ1	1.34	0.90
8:A:27:GLN:OE1	14:G:15:PHE:N	2.04	0.90
23:P:258:LYS:HZ2	23:P:290:LEU:HD11	1.35	0.90
24:Q:51:ARG:HH12	24:Q:55:GLU:HB2	1.36	0.90
25:R:284:ALA:O	25:R:286:LEU:N	2.03	0.90
26:S:471:LEU:HD12	28:U:288:PHE:CB	2.01	0.90
6:6:81:SER:HB2	6:6:125:LYS:HD2	1.53	0.90
16:I:362:LEU:HD23	16:I:392:ILE:HG23	1.53	0.90
22:O:11:LEU:HA	22:O:14:LEU:CB	1.99	0.90
22:O:232:GLU:HG2	22:O:233:LEU:H	1.36	0.90
28:U:34:VAL:HA	28:U:94:HIS:HA	1.52	0.90
28:U:273:LEU:HA	28:U:276:ILE:HD12	1.52	0.90
14:g:87:HIS:CD2	14:g:132:PHE:HE2	1.90	0.90
5:j:103:TYR:HA	6:k:93:ARG:HH22	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:81:SER:HB2	6:k:125:LYS:HD2	1.53	0.90
11:D:178:ASN:OD1	11:D:197:ARG:NH2	2.04	0.90
23:P:280:LEU:HD22	23:P:283:LYS:NZ	1.86	0.90
26:S:425:ARG:HH11	27:T:156:SER:H	0.95	0.90
23:P:42:LEU:HD11	23:P:88:GLN:HE21	1.34	0.90
30:W:51:LEU:HB3	30:W:63:SER:HB3	1.53	0.90
10:c:216:ILE:HG12	10:c:227:GLN:HG2	1.54	0.90
11:d:116:VAL:HA	11:d:119:ARG:HH12	1.33	0.90
6:k:8:ARG:HA	6:k:13:VAL:HA	1.54	0.90
3:3:40:THR:HA	3:3:45:ILE:HA	1.52	0.90
14:G:51:GLU:OE2	14:G:204:HIS:ND1	2.04	0.90
13:f:38:LEU:HA	13:f:158:GLY:HA2	1.53	0.90
1:8:27:ASN:O	1:8:49:ILE:HG13	1.72	0.90
14:G:87:HIS:CD2	14:G:132:PHE:HE2	1.90	0.90
16:I:249:GLY:HA2	16:I:252:LEU:CD2	2.01	0.90
22:O:12:SER:O	22:O:18:ALA:N	2.05	0.90
23:P:147:LYS:NZ	23:P:159:ILE:HG21	1.87	0.90
25:R:198:ILE:HG12	25:R:200:LYS:HG3	0.92	0.90
28:U:140:ILE:CB	28:U:153:THR:HG22	2.02	0.90
29:V:37:MET:HB3	29:V:108:TYR:CE2	2.06	0.90
33:Z:819:GLY:HA2	33:Z:827:LEU:HD21	1.54	0.90
17:J:238:ARG:NH1	17:J:283:GLU:HG3	1.87	0.89
22:O:7:ILE:HD12	22:O:11:LEU:HG	1.52	0.89
33:Z:165:TYR:HE1	33:Z:201:LEU:HD23	1.36	0.89
7:l:127:CYS:O	7:l:131:GLU:N	2.04	0.89
4:4:158:SER:OG	4:4:195:ASP:OD2	1.91	0.89
13:F:3:ARG:O	13:F:7:ASP:N	2.05	0.89
22:O:280:LEU:HA	22:O:283:HIS:HB2	1.54	0.89
24:Q:7:LYS:HZ2	24:Q:33:LYS:HB2	1.35	0.89
33:Z:815:MET:HG2	33:Z:830:LEU:HD11	1.53	0.89
17:J:71:TYR:HB2	17:J:115:LEU:HB3	1.51	0.89
21:N:308:ASN:HD22	21:N:712:ASN:HD21	1.18	0.89
29:V:119:SER:HB2	29:V:122:ASP:H	1.34	0.89
14:g:51:GLU:OE2	14:g:204:HIS:ND1	2.04	0.89
13:F:38:LEU:HA	13:F:158:GLY:HA2	1.53	0.89
16:I:249:GLY:HA2	16:I:252:LEU:HD21	1.54	0.89
21:N:475:ALA:N	29:V:59:ASP:OD2	2.05	0.89
23:P:421:GLU:O	23:P:425:HIS:N	2.04	0.89
28:U:140:ILE:CB	28:U:153:THR:C	2.46	0.89
33:Z:516:THR:HB	33:Z:555:ALA:HB3	1.53	0.89
7:l:76:THR:CG2	7:l:108:LYS:HZ3	1.82	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:42:THR:CG2	2:9:74:ARG:NH2	2.35	0.89
2:9:220:ARG:O	3:h:45:ILE:N	2.05	0.89
12:E:201:LEU:HD23	12:E:243:LEU:HD22	1.52	0.89
17:J:181:GLN:HG2	17:J:286:LYS:HD2	1.54	0.89
24:Q:51:ARG:NH1	24:Q:55:GLU:HB2	1.87	0.89
11:d:194:LEU:HA	11:d:197:ARG:HD3	1.53	0.89
13:f:123:TYR:CB	14:g:128:SER:HB2	2.03	0.89
6:6:22:THR:O	6:6:23:ARG:NH1	2.05	0.89
15:H:341:ASP:OD1	15:H:370:ARG:NH1	2.04	0.89
23:P:292:LYS:HG3	23:P:294:GLU:HB2	1.54	0.89
23:P:393:VAL:H	24:Q:354:PHE:HB2	1.37	0.89
25:R:293:THR:O	25:R:297:TYR:N	2.05	0.89
33:Z:138:ARG:NH2	33:Z:206:ASP:OD2	2.04	0.89
9:B:179:TRP:HA	9:B:183:LEU:HD11	1.55	0.89
13:F:176:LEU:HD22	14:G:57:LYS:HB3	1.55	0.89
17:J:88:VAL:HB	17:J:91:GLU:HB2	1.53	0.89
17:J:182:PRO:HA	17:J:311:ASP:HB2	1.54	0.89
18:K:249:GLU:OE2	18:K:252:ARG:NE	2.06	0.89
22:O:14:LEU:O	22:O:16:MET:HB2	1.73	0.89
26:S:205:ASN:O	26:S:209:ILE:N	2.06	0.89
26:S:402:ILE:HB	26:S:407:ILE:HG13	1.52	0.89
33:Z:366:LYS:HE2	33:Z:859:LYS:CE	2.02	0.89
10:C:216:ILE:HG12	10:C:227:GLN:HG2	1.54	0.89
22:O:1:MET:HG3	22:O:37:LEU:HG	1.52	0.89
22:O:383:LYS:HA	22:O:386:ALA:HB3	1.51	0.89
24:Q:71:LYS:O	24:Q:75:ARG:N	2.04	0.89
25:R:285:ALA:O	25:R:286:LEU:CG	2.21	0.89
28:U:141:GLU:HA	28:U:153:THR:N	1.88	0.89
7:l:110:ILE:HG21	7:l:131:GLU:HB3	1.55	0.89
12:E:243:LEU:O	12:E:247:GLU:N	2.06	0.88
22:O:4:ASN:O	22:O:8:ASP:N	2.04	0.88
30:W:12:ASN:H	30:W:55:ALA:HB2	1.37	0.88
30:W:49:VAL:N	30:W:71:LYS:HZ1	1.69	0.88
10:c:186:VAL:HB	10:c:217:ARG:HH21	1.34	0.88
4:i:158:SER:OG	4:i:195:ASP:OD2	1.91	0.88
19:L:243:PHE:HA	19:L:277:ILE:HB	1.53	0.88
28:U:57:GLU:HB3	28:U:67:PHE:HB3	1.53	0.88
6:k:1:MET:SD	6:k:2:ASP:N	2.46	0.88
8:A:69:VAL:HA	14:G:158:TRP:CZ3	2.07	0.88
11:D:187:THR:N	11:D:190:GLU:OE2	2.06	0.88
19:L:313:ASP:OD2	19:L:339:ARG:NH2	2.05	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:138:LEU:HD12	22:O:177:GLN:HE22	1.36	0.88
25:R:264:THR:O	25:R:268:SER:N	2.06	0.88
26:S:458:GLN:NE2	28:U:270:ASN:O	2.06	0.88
6:k:162:LYS:HZ1	6:k:198:GLN:H	1.19	0.88
18:K:238:ASN:ND2	18:K:241:GLU:OE2	2.07	0.88
30:W:25:ARG:NH2	30:W:114:VAL:O	2.05	0.88
30:W:143:ASN:ND2	30:W:149:GLN:O	2.06	0.88
11:d:187:THR:N	11:d:190:GLU:OE2	2.06	0.88
13:f:107:ARG:HA	13:f:110:HIS:HD2	1.38	0.88
4:4:97:LEU:HB3	9:B:90:ARG:NH1	1.88	0.88
1:8:78:ALA:H	2:9:168:VAL:HG22	1.35	0.88
13:F:48:ALA:HB3	13:F:212:SER:HB3	1.55	0.88
17:J:164:ILE:HG12	17:J:185:VAL:HG21	1.56	0.88
10:c:4:ARG:HA	11:d:6:ARG:NH1	1.88	0.88
4:4:228:LYS:NZ	5:5:154:TYR:O	2.06	0.88
2:9:54:ILE:HG12	2:9:232:ILE:HG12	1.53	0.88
15:H:155:PHE:HB3	20:M:76:PRO:HD2	1.54	0.88
15:H:335:GLU:OE2	15:H:339:GLN:NE2	2.06	0.88
17:J:53:ASP:OD1	21:N:611:LYS:NZ	2.06	0.88
18:K:191:PRO:HB2	18:K:313:LYS:NZ	1.88	0.88
24:Q:378:SER:O	24:Q:382:LEU:N	2.06	0.88
27:T:257:THR:O	27:T:261:GLU:N	2.07	0.88
28:U:141:GLU:HA	28:U:152:LYS:C	1.98	0.88
29:V:37:MET:CB	29:V:108:TYR:CE2	2.57	0.88
30:W:130:LYS:HB3	30:W:134:LYS:HE3	1.53	0.88
33:Z:397:ASP:O	33:Z:401:VAL:N	2.05	0.88
12:e:84:ASP:OD2	12:e:139:GLY:N	2.06	0.88
13:f:3:ARG:O	13:f:7:ASP:N	2.05	0.88
21:N:204:SER:HB3	21:N:208:ARG:HH12	1.38	0.88
21:N:345:ASP:OD2	21:N:347:SER:OG	1.90	0.88
23:P:424:GLU:O	23:P:428:THR:N	2.06	0.88
24:Q:6:SER:O	24:Q:10:GLU:N	2.07	0.88
25:R:294:ILE:HA	25:R:297:TYR:HB3	1.54	0.88
28:U:195:LYS:HG2	29:V:233:LYS:HE3	1.55	0.88
13:F:107:ARG:HA	13:F:110:HIS:HD2	1.38	0.88
16:I:249:GLY:HA2	16:I:252:LEU:CG	2.02	0.88
17:J:169:LYS:NZ	17:J:205:HIS:O	2.07	0.88
18:K:98:GLN:H	18:K:111:SER:HB2	1.39	0.88
21:N:718:GLU:HB2	21:N:725:LEU:HD23	1.55	0.88
24:Q:262:LEU:O	24:Q:266:LEU:N	2.06	0.88
25:R:62:TYR:O	25:R:66:LEU:N	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:465:ILE:HA	28:U:280:ASN:HD21	1.37	0.88
32:Y:80:GLU:O	32:Y:84:TYR:N	2.06	0.88
20:M:264:ARG:HA	20:M:311:GLN:HE22	1.38	0.88
10:c:99:LEU:O	10:c:103:ASN:N	2.06	0.88
6:6:8:ARG:HA	6:6:13:VAL:HA	1.54	0.88
19:L:226:THR:HA	19:L:387:ASN:HB2	1.54	0.88
22:O:7:ILE:HG23	22:O:11:LEU:HB2	1.54	0.88
23:P:222:ASN:C	23:P:226:LYS:HZ3	1.82	0.88
27:T:79:GLU:O	27:T:83:ASN:N	2.06	0.88
33:Z:202:ARG:HA	33:Z:205:LEU:HB2	1.54	0.88
9:B:66:LEU:HD11	9:B:69:PRO:HA	1.56	0.87
12:E:84:ASP:OD2	12:E:139:GLY:N	2.06	0.87
18:K:256:ASP:O	18:K:260:LEU:N	2.06	0.87
21:N:786:ARG:NH1	21:N:787:MET:O	2.06	0.87
22:O:5:HIS:HA	22:O:8:ASP:HB2	1.56	0.87
24:Q:7:LYS:NZ	24:Q:34:ASP:HB2	1.89	0.87
25:R:285:ALA:O	25:R:286:LEU:HG	1.74	0.87
8:A:62:LYS:NZ	14:G:177:GLU:O	2.06	0.87
10:C:99:LEU:O	10:C:103:ASN:N	2.06	0.87
11:d:171:VAL:HG23	11:d:198:SER:HB2	1.53	0.87
1:1:92:LYS:NZ	13:f:93:ASN:HB2	1.89	0.87
13:F:6:TYR:OH	14:G:9:ASP:OD2	1.91	0.87
23:P:108:LYS:C	23:P:112:LEU:HG	1.99	0.87
24:Q:23:ALA:O	24:Q:27:TYR:N	2.07	0.87
27:T:256:LYS:O	27:T:260:ILE:N	2.06	0.87
28:U:20:ASP:O	28:U:24:ARG:N	2.06	0.87
33:Z:138:ARG:NH1	33:Z:144:SER:OG	2.07	0.87
33:Z:365:SER:O	33:Z:962:ARG:NH1	2.06	0.87
4:4:98:TYR:O	8:A:119:LYS:NZ	2.06	0.87
5:5:68:ARG:NH2	10:C:100:LYS:HA	1.89	0.87
1:8:96:PHE:HB3	13:F:89:ARG:NH1	1.90	0.87
26:S:348:LEU:O	26:S:352:VAL:N	2.07	0.87
33:Z:112:LYS:HZ2	33:Z:140:LEU:HD22	1.38	0.87
1:1:68:ASN:ND2	1:1:227:THR:O	2.07	0.87
22:O:15:ARG:HH22	30:W:145:GLY:CA	1.87	0.87
28:U:141:GLU:N	28:U:153:THR:CB	2.37	0.87
30:W:108:GLN:O	30:W:138:ALA:N	2.08	0.87
12:E:243:LEU:HD23	12:E:243:LEU:H	1.38	0.87
15:H:96:PRO:HA	15:H:190:ARG:O	1.74	0.87
21:N:892:PRO:HA	21:N:906:ARG:HB3	1.56	0.87
25:R:372:ILE:HG21	26:S:395:ILE:N	1.89	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:179:TRP:HA	9:b:183:LEU:HD11	1.55	0.87
13:f:48:ALA:HB3	13:f:212:SER:HB3	1.55	0.87
4:4:249:ILE:HD12	5:5:48:HIS:HA	1.53	0.87
7:7:219:TYR:O	7:7:220:LYS:NZ	2.07	0.87
1:8:167:PRO:HG3	5:j:177:ARG:HG2	1.55	0.87
19:L:260:ALA:O	19:L:264:ARG:N	2.07	0.87
20:M:228:LYS:NZ	20:M:327:THR:O	2.06	0.87
22:O:15:ARG:NE	30:W:144:PHE:CE2	2.41	0.87
28:U:117:ASN:HD21	28:U:139:ALA:HB3	1.37	0.87
17:J:47:GLN:HE22	26:S:479:MET:HE2	1.40	0.87
19:L:145:ARG:HE	19:L:161:ARG:HA	1.39	0.87
21:N:666:GLN:NE2	21:N:711:ARG:O	2.08	0.87
23:P:334:ASN:O	23:P:338:TRP:N	2.07	0.87
24:Q:124:PHE:HA	24:Q:127:ARG:HG2	1.56	0.87
24:Q:407:ALA:HA	24:Q:410:ASP:OD2	1.75	0.87
26:S:166:ASN:O	26:S:171:TYR:OH	1.91	0.87
28:U:166:ALA:H	29:V:42:ARG:NH1	1.73	0.87
32:Y:75:ASN:O	32:Y:79:ALA:N	2.06	0.87
19:L:291:PHE:HA	20:M:294:GLU:HG2	1.57	0.87
23:P:108:LYS:HA	23:P:112:LEU:HG	1.57	0.87
26:S:268:LEU:O	26:S:272:TYR:N	2.08	0.87
30:W:51:LEU:HG	30:W:62:LEU:HB2	1.57	0.87
8:a:232:LYS:HE2	8:a:234:PHE:HB3	1.57	0.87
9:b:94:HIS:HA	9:b:98:LYS:HB3	1.56	0.87
4:i:99:THR:O	4:i:101:ARG:NH1	2.08	0.87
4:4:99:THR:O	4:4:101:ARG:NH1	2.08	0.86
11:D:56:ASP:OD2	11:D:58:ARG:NH2	2.08	0.86
22:O:5:HIS:CE1	22:O:31:LYS:HG3	2.09	0.86
25:R:40:ILE:O	25:R:44:LYS:N	2.08	0.86
25:R:350:LEU:O	25:R:354:ALA:N	2.07	0.86
15:H:222:ARG:NH1	15:H:227:LEU:HD11	1.88	0.86
20:M:12:LEU:O	20:M:16:ASP:N	2.06	0.86
20:M:397:GLU:O	20:M:401:ILE:N	2.07	0.86
22:O:211:GLN:O	22:O:215:TYR:N	2.08	0.86
26:S:221:ALA:CB	26:S:230:LYS:HZ3	1.87	0.86
26:S:346:TYR:O	26:S:350:LYS:N	2.06	0.86
29:V:107:TRP:O	29:V:138:ALA:HA	1.74	0.86
30:W:67:ALA:HB3	30:W:68:GLU:CB	2.05	0.86
13:F:11:VAL:HA	14:G:130:ARG:HD3	1.57	0.86
15:H:101:ARG:HB2	15:H:173:ARG:NH1	1.90	0.86
17:J:87:LYS:HA	17:J:93:LYS:HA	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:606:VAL:O	21:N:610:SER:N	2.07	0.86
22:O:15:ARG:HH22	30:W:145:GLY:C	1.83	0.86
23:P:306:ASN:HA	23:P:310:ARG:NH1	1.90	0.86
24:Q:394:ASN:HB3	24:Q:396:TRP:CD2	2.09	0.86
28:U:286:ILE:O	28:U:290:ASP:CB	2.21	0.86
30:W:140:ASP:HB3	30:W:190:ILE:HG12	1.56	0.86
3:3:57:HIS:HB3	3:3:60:ILE:HB	1.55	0.86
26:S:217:PHE:O	26:S:221:ALA:N	2.07	0.86
28:U:276:ILE:CG1	29:V:291:ASN:HD21	1.78	0.86
2:9:232:ILE:O	2:9:240:THR:N	2.08	0.86
18:K:171:TYR:HB2	18:K:181:LYS:HD2	1.58	0.86
24:Q:423:VAL:O	24:Q:427:PHE:N	2.09	0.86
1:8:68:ASN:ND2	1:8:227:THR:O	2.07	0.86
9:B:94:HIS:HA	9:B:98:LYS:HB3	1.56	0.86
21:N:314:LEU:HG	21:N:318:LYS:HE2	1.58	0.86
22:O:239:MET:O	22:O:243:VAL:N	2.08	0.86
25:R:332:GLU:O	25:R:336:LYS:N	2.08	0.86
28:U:126:LYS:C	29:V:208:LYS:HZ1	1.83	0.86
16:I:141:LEU:HD13	16:I:147:VAL:HG12	1.56	0.86
17:J:45:GLU:O	17:J:49:ASN:ND2	2.09	0.86
23:P:294:GLU:O	23:P:298:SER:N	2.08	0.86
33:Z:926:ASN:HB2	33:Z:993:GLU:HG3	1.55	0.86
6:6:70:ARG:NH2	11:D:87:GLU:OE2	2.09	0.86
8:A:232:LYS:HE2	8:A:234:PHE:HB3	1.57	0.86
17:J:190:PRO:HD2	17:J:318:PRO:O	1.74	0.86
21:N:677:ASP:O	21:N:681:ASN:N	2.09	0.86
21:N:764:SER:OG	21:N:907:ASP:OD2	1.93	0.86
27:T:260:ILE:HG22	27:T:264:MET:HE2	1.58	0.86
29:V:208:LYS:HA	29:V:211:LYS:NZ	1.90	0.86
29:V:264:GLU:HB3	29:V:280:LEU:HD21	1.57	0.86
30:W:16:SER:HG	30:W:115:CYS:HG	0.89	0.86
33:Z:106:TRP:HB2	33:Z:140:LEU:HD22	1.57	0.86
2:2:207:GLU:OE2	2:2:242:LYS:NZ	2.09	0.86
2:9:207:GLU:OE2	2:9:242:LYS:NZ	2.09	0.86
8:A:46:ARG:HH21	8:A:167:LYS:HA	1.39	0.86
19:L:219:LEU:HA	19:L:325:MET:HB2	1.56	0.86
22:O:367:LYS:HG2	22:O:371:VAL:HG23	1.56	0.86
27:T:265:ASP:OD2	28:U:189:ARG:NH2	2.08	0.86
33:Z:369:PHE:HB3	33:Z:390:LEU:HD22	1.55	0.86
11:d:56:ASP:OD2	11:d:58:ARG:NH2	2.08	0.86
14:g:200:ILE:O	14:g:204:HIS:N	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:232:ILE:O	2:2:240:THR:N	2.08	0.86
2:9:87:SER:O	2:9:145:ASN:ND2	2.09	0.86
22:O:11:LEU:HD21	22:O:14:LEU:HD12	0.97	0.86
26:S:209:ILE:O	26:S:213:THR:N	2.09	0.86
33:Z:363:ASP:HA	33:Z:366:LYS:CD	2.06	0.86
3:h:57:HIS:HB3	3:h:60:ILE:HB	1.55	0.86
18:K:49:PHE:O	18:K:52:LYS:N	2.09	0.85
18:K:156:SER:OG	18:K:252:ARG:NH2	2.09	0.85
18:K:234:PHE:HA	18:K:268:ILE:HB	1.57	0.85
23:P:130:ILE:HG23	23:P:132:VAL:H	1.41	0.85
33:Z:363:ASP:C	33:Z:366:LYS:HG2	2.01	0.85
33:Z:369:PHE:HB3	33:Z:390:LEU:HD21	0.88	0.85
14:g:87:HIS:HD2	14:g:132:PHE:CE2	1.94	0.85
7:l:219:TYR:O	7:l:220:LYS:NZ	2.07	0.85
12:E:142:LEU:HB2	12:E:158:ALA:HB3	1.58	0.85
14:G:16:SER:OG	14:G:18:ASP:OD1	1.94	0.85
33:Z:512:ILE:HG23	33:Z:521:GLU:HB3	1.58	0.85
12:e:142:LEU:HB2	12:e:158:ALA:HB3	1.58	0.85
4:i:189:GLN:HA	4:i:192:ILE:HB	1.57	0.85
4:i:230:LYS:NZ	4:i:232:TYR:HA	1.91	0.85
6:k:184:VAL:HG22	6:k:189:ILE:HG12	1.58	0.85
2:2:87:SER:O	2:2:145:ASN:ND2	2.09	0.85
6:6:184:VAL:HG22	6:6:189:ILE:HG12	1.58	0.85
12:E:52:LYS:HE3	12:E:218:GLN:HB2	1.58	0.85
17:J:269:GLN:O	17:J:273:LEU:N	2.09	0.85
22:O:9:THR:O	22:O:12:SER:OG	1.93	0.85
23:P:108:LYS:CA	23:P:112:LEU:HG	2.06	0.85
23:P:343:LYS:O	23:P:347:GLU:N	2.08	0.85
25:R:348:LEU:O	25:R:388:VAL:N	2.08	0.85
27:T:57:ILE:O	27:T:61:ILE:N	2.09	0.85
29:V:36:LYS:NZ	29:V:68:VAL:O	2.07	0.85
31:X:127:GLY:O	31:X:131:ASN:N	2.08	0.85
9:b:66:LEU:HD11	9:b:69:PRO:HA	1.56	0.85
12:e:223:THR:O	12:e:227:GLY:N	2.08	0.85
5:j:83:GLU:OE2	5:j:114:SER:OG	1.94	0.85
7:7:189:TYR:HB3	7:7:197:LEU:HB2	1.56	0.85
2:9:255:ALA:O	3:h:193:ARG:NH2	2.09	0.85
8:A:21:PRO:HA	9:B:23:TYR:CD1	2.10	0.85
16:I:257:LEU:HD23	16:I:301:GLU:HB2	1.58	0.85
23:P:422:LEU:HB3	23:P:426:ILE:CG1	2.07	0.85
25:R:131:ALA:HB2	25:R:160:LYS:HB2	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:247:GLU:OE2	25:R:285:ALA:HB3	1.76	0.85
26:S:330:LEU:O	26:S:334:HIS:N	2.08	0.85
4:4:230:LYS:NZ	4:4:232:TYR:HA	1.91	0.85
6:6:47:ALA:O	6:6:101:ASN:N	2.09	0.85
19:L:120:LYS:HA	19:L:126:ARG:HA	1.57	0.85
19:L:220:LEU:HA	19:L:347:VAL:HB	1.57	0.85
23:P:45:LYS:HD3	23:P:52:LEU:HB2	1.56	0.85
28:U:141:GLU:N	28:U:153:THR:N	2.24	0.85
29:V:123:VAL:O	29:V:127:LYS:N	2.09	0.85
18:K:84:GLU:HB3	18:K:88:ARG:HH12	1.41	0.85
23:P:218:LEU:O	23:P:222:ASN:N	2.08	0.85
25:R:215:GLY:O	25:R:223:ASN:ND2	2.09	0.85
32:Y:78:LYS:HA	32:Y:81:LEU:HB3	1.57	0.85
33:Z:298:PHE:HB3	33:Z:338:HIS:HB3	1.58	0.85
11:d:36:VAL:HG12	11:d:161:ALA:HB1	1.59	0.85
14:g:175:GLU:HB3	14:g:199:ILE:HG12	1.59	0.85
6:6:145:ASP:O	7:l:282:PHE:N	2.08	0.85
11:D:15:GLY:HA3	12:E:29:GLU:HB2	1.57	0.85
12:E:128:SER:N	13:F:125:GLY:HA3	1.91	0.85
12:E:223:THR:O	12:E:227:GLY:N	2.08	0.85
20:M:401:ILE:HA	20:M:404:ARG:HB2	1.55	0.85
21:N:556:ALA:O	21:N:560:ALA:N	2.08	0.85
23:P:413:ASN:HA	23:P:416:SER:HB2	1.59	0.85
28:U:277:TYR:O	28:U:280:ASN:HB2	1.77	0.85
3:3:180:GLN:NE2	3:h:158:ASP:OD2	2.10	0.85
4:4:50:THR:HA	4:4:56:ALA:H	1.41	0.85
21:N:230:VAL:HG21	21:N:264:SER:HB3	1.57	0.85
7:l:189:TYR:HB3	7:l:197:LEU:HB2	1.56	0.85
18:K:79:LEU:O	18:K:83:GLN:N	2.08	0.85
20:M:201:MET:HE1	20:M:241:ALA:HB2	1.58	0.85
21:N:150:LEU:O	21:N:154:LEU:N	2.10	0.85
2:9:226:ARG:NH1	3:h:213:GLU:OE1	2.09	0.85
14:G:200:ILE:O	14:G:204:HIS:N	2.08	0.85
24:Q:172:PRO:HA	24:Q:208:ILE:HD13	1.59	0.85
33:Z:396:ASN:HD21	33:Z:399:LEU:HD12	1.39	0.85
3:3:138:VAL:H	2:9:94:GLN:HE22	1.20	0.84
5:5:75:LYS:O	5:5:79:GLU:N	2.10	0.84
2:9:58:ASP:H	2:9:74:ARG:HH21	1.25	0.84
2:9:60:LEU:HA	2:9:70:ASN:HA	1.59	0.84
17:J:324:ARG:O	17:J:328:LEU:N	2.08	0.84
19:L:325:MET:HG3	19:L:343:LEU:HD21	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:326:SER:O	21:N:330:THR:N	2.10	0.84
23:P:245:TYR:O	23:P:257:TRP:NE1	2.07	0.84
30:W:4:GLU:OE2	30:W:109:ARG:NE	2.09	0.84
3:h:21:SER:HA	3:h:147:GLY:HA3	1.58	0.84
15:H:51:GLN:HA	16:I:92:GLU:HG2	1.59	0.84
16:I:375:VAL:HG22	16:I:413:ALA:HA	1.58	0.84
17:J:153:LEU:CB	17:J:316:PHE:HZ	1.90	0.84
21:N:175:ASP:H	21:N:182:ASN:ND2	1.73	0.84
21:N:176:GLN:HA	21:N:179:THR:HA	1.56	0.84
21:N:436:ASP:O	21:N:440:ASP:N	2.09	0.84
22:O:326:HIS:O	22:O:330:ARG:N	2.09	0.84
23:P:338:TRP:O	23:P:342:GLN:N	2.10	0.84
25:R:398:ALA:HB1	25:R:402:LEU:HG	1.59	0.84
27:T:85:LEU:HG	27:T:89:TYR:HB2	1.58	0.84
11:d:12:SER:OG	11:d:14:ASP:OD1	1.95	0.84
12:e:52:LYS:HE3	12:e:218:GLN:HB2	1.58	0.84
3:h:148:SER:OG	3:h:185:ASP:OD2	1.95	0.84
4:i:50:THR:HA	4:i:56:ALA:H	1.41	0.84
13:F:123:TYR:CG	14:G:128:SER:HB2	2.12	0.84
18:K:343:LEU:C	18:K:344:ARG:HG2	2.02	0.84
19:L:76:GLN:O	19:L:80:ASN:N	2.08	0.84
21:N:773:MET:HB3	21:N:884:PHE:HA	1.57	0.84
23:P:228:SER:HB3	23:P:237:VAL:HG22	1.58	0.84
23:P:422:LEU:HD13	23:P:426:ILE:HD11	1.58	0.84
24:Q:344:GLU:O	24:Q:348:CYS:N	2.10	0.84
24:Q:413:LEU:HA	24:Q:416:VAL:HB	1.60	0.84
26:S:351:ALA:O	26:S:355:GLY:N	2.09	0.84
24:Q:223:GLY:O	24:Q:227:CYS:N	2.09	0.84
9:b:141:GLU:OE2	5:j:115:LYS:NZ	2.10	0.84
11:d:94:GLN:HE22	6:k:65:GLN:HB2	1.41	0.84
4:i:49:SER:HB3	4:i:57:ASP:HB3	1.60	0.84
8:A:165:GLY:O	9:B:57:MET:N	2.09	0.84
17:J:308:GLY:N	17:J:311:ASP:OD1	2.10	0.84
21:N:156:ILE:O	21:N:160:GLY:N	2.10	0.84
14:g:11:SER:HB3	14:g:127:ASN:HB2	1.59	0.84
3:3:20:THR:CB	3:3:36:ASP:OD1	2.26	0.84
8:A:161:GLY:O	9:B:83:ARG:NH1	2.11	0.84
9:B:98:LYS:O	9:B:102:GLY:N	2.11	0.84
11:D:162:GLN:NE2	11:D:163:THR:O	2.10	0.84
20:M:216:LYS:NZ	20:M:311:GLN:O	2.10	0.84
21:N:361:ASN:HB3	21:N:399:PHE:CD2	2.13	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:129:LEU:O	27:T:132:HIS:NE2	2.09	0.84
27:T:261:GLU:OE2	29:V:295:VAL:HB	1.77	0.84
29:V:91:MET:O	29:V:95:LEU:N	2.11	0.84
33:Z:366:LYS:HE2	33:Z:859:LYS:HE2	1.59	0.84
9:b:108:LYS:NZ	5:j:78:GLU:O	2.10	0.84
6:k:3:ILE:HB	6:k:18:SER:HB3	1.57	0.84
1:1:169:LEU:O	1:1:173:VAL:N	2.10	0.84
4:4:189:GLN:HA	4:4:192:ILE:HB	1.57	0.84
7:7:285:VAL:HA	5:j:38:ASN:HD21	1.43	0.84
13:F:67:ASP:OD2	13:F:69:HIS:NE2	2.11	0.84
14:G:11:SER:HB3	14:G:127:ASN:CB	2.08	0.84
19:L:401:PHE:HA	19:L:404:ARG:HB3	1.60	0.84
25:R:115:GLU:O	25:R:119:LYS:N	2.09	0.84
29:V:37:MET:O	29:V:41:GLY:N	2.09	0.84
8:a:46:ARG:HH21	8:a:167:LYS:HA	1.39	0.84
14:g:126:TYR:CB	14:g:129:VAL:HG22	2.07	0.84
6:k:2:ASP:C	6:k:3:ILE:HG13	2.01	0.84
6:k:162:LYS:NZ	6:k:198:GLN:H	1.76	0.84
10:C:115:LEU:HA	10:C:118:ILE:HD12	1.60	0.84
16:I:102:ASN:HB3	17:J:83:LYS:HZ3	1.42	0.84
21:N:229:VAL:O	21:N:233:ASN:N	2.09	0.84
21:N:346:ASN:HA	21:N:349:ILE:HD12	1.59	0.84
22:O:9:THR:OG1	22:O:27:GLU:OE2	1.95	0.84
26:S:296:ALA:O	26:S:300:ALA:HB2	1.77	0.84
33:Z:916:LEU:O	33:Z:983:LEU:N	2.09	0.84
14:g:126:TYR:HB2	14:g:129:VAL:CG2	2.06	0.84
5:j:75:LYS:O	5:j:79:GLU:N	2.09	0.84
6:k:47:ALA:O	6:k:101:ASN:N	2.09	0.84
7:7:287:GLY:OXT	4:i:242:LEU:HD22	1.77	0.84
1:8:54:ILE:HB	2:9:189:ARG:NH1	1.92	0.84
9:B:241:GLN:O	9:B:245:ASP:N	2.10	0.84
17:J:48:ARG:HH12	21:N:611:LYS:CB	1.91	0.84
17:J:147:TYR:HB2	17:J:157:ILE:HD13	1.58	0.84
7:l:276:LYS:NZ	7:l:285:VAL:O	2.10	0.84
2:2:68:ARG:HH12	3:h:133:PRO:HB3	1.42	0.84
5:5:84:PRO:O	5:5:88:THR:N	2.10	0.84
1:8:169:LEU:O	1:8:173:VAL:N	2.10	0.84
11:D:188:VAL:HG21	11:D:216:LYS:HE2	1.60	0.84
12:E:240:ILE:C	12:E:243:LEU:HG	2.03	0.84
13:F:11:VAL:HG22	14:G:130:ARG:HB2	1.59	0.84
19:L:357:ARG:O	19:L:361:PHE:N	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:15:ARG:HB2	30:W:18:ASN:CG	2.03	0.84
11:d:162:GLN:NE2	11:d:163:THR:O	2.10	0.84
13:f:67:ASP:OD2	13:f:69:HIS:NE2	2.11	0.84
4:i:204:VAL:O	4:i:216:LEU:N	2.11	0.84
16:I:177:PRO:HB2	16:I:234:LYS:HB3	1.59	0.83
16:I:252:LEU:O	16:I:254:GLN:N	2.10	0.83
20:M:21:GLU:HG2	30:W:73:LEU:HB2	1.60	0.83
26:S:319:CYS:HA	26:S:322:LEU:HD12	1.59	0.83
27:T:141:LEU:HD22	27:T:169:GLN:HB2	1.60	0.83
28:U:141:GLU:H	28:U:153:THR:HB	1.43	0.83
14:g:16:SER:OG	14:g:18:ASP:OD1	1.94	0.83
3:3:148:SER:OG	3:3:185:ASP:OD2	1.95	0.83
5:5:83:GLU:OE2	5:5:114:SER:OG	1.94	0.83
12:E:187:TRP:HA	12:E:191:LEU:HD11	1.60	0.83
16:I:221:LEU:N	16:I:326:MET:O	2.11	0.83
21:N:59:GLU:HB3	21:N:85:ALA:HA	1.60	0.83
26:S:246:GLU:HB2	27:T:128:TYR:HB2	1.60	0.83
28:U:27:THR:HA	28:U:31:LYS:HE2	1.60	0.83
8:a:226:GLY:HA2	8:a:235:THR:HA	1.60	0.83
3:h:38:ARG:O	3:h:52:LYS:NZ	2.11	0.83
3:3:38:ARG:O	3:3:52:LYS:NZ	2.11	0.83
8:A:226:GLY:HA2	8:A:235:THR:HA	1.60	0.83
11:D:12:SER:OG	11:D:14:ASP:OD1	1.95	0.83
11:D:96:HIS:ND1	11:D:102:ASP:O	2.11	0.83
22:O:240:GLU:N	22:O:241:THR:OG1	2.11	0.83
27:T:39:LEU:O	27:T:88:TYR:OH	1.95	0.83
27:T:159:LYS:O	27:T:163:LEU:N	2.12	0.83
9:b:41:ASN:HD21	9:b:185:LEU:H	1.26	0.83
3:h:20:THR:CA	3:h:188:SER:HA	2.07	0.83
6:k:120:ASP:OD2	6:k:122:LEU:HB2	1.77	0.83
3:3:88:GLN:HG2	8:A:98:LYS:HZ2	1.41	0.83
11:D:36:VAL:HG12	11:D:161:ALA:HB1	1.59	0.83
12:E:240:ILE:CA	12:E:243:LEU:HD21	2.06	0.83
22:O:59:LEU:HA	22:O:62:TYR:CE2	2.13	0.83
22:O:106:PHE:O	22:O:111:SER:OG	1.96	0.83
22:O:185:PHE:HB3	22:O:220:SER:HB2	1.58	0.83
25:R:414:LEU:HD22	26:S:471:LEU:HD12	1.59	0.83
29:V:108:TYR:HD1	29:V:109:HIS:N	1.75	0.83
33:Z:369:PHE:HE2	33:Z:859:LYS:HE3	1.03	0.83
11:d:188:VAL:HG21	11:d:216:LYS:HE2	1.60	0.83
7:7:142:GLU:O	7:7:146:LYS:N	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:276:LYS:NZ	7:7:285:VAL:O	2.10	0.83
10:C:28:SER:HA	10:C:31:HIS:HD2	1.44	0.83
17:J:317:PRO:CB	17:J:318:PRO:HA	2.08	0.83
21:N:431:SER:O	21:N:472:ASN:ND2	2.12	0.83
21:N:504:TYR:O	21:N:508:THR:N	2.10	0.83
22:O:256:ASN:O	22:O:260:VAL:N	2.11	0.83
27:T:182:LYS:HB3	27:T:186:ARG:NH1	1.93	0.83
27:T:253:GLU:HG3	27:T:254:ASP:H	1.40	0.83
32:Y:78:LYS:O	32:Y:82:ASP:N	2.12	0.83
10:c:115:LEU:HA	10:c:118:ILE:HD12	1.60	0.83
3:3:191:VAL:HG12	3:3:209:PRO:HD3	1.61	0.83
6:6:120:ASP:OD2	6:6:122:LEU:HB2	1.77	0.83
17:J:257:ARG:NH1	17:J:296:ARG:NH1	2.26	0.83
19:L:108:VAL:O	19:L:143:GLY:N	2.08	0.83
20:M:405:ASN:ND2	20:M:414:ASP:OD1	2.12	0.83
21:N:362:TRP:O	21:N:366:THR:N	2.10	0.83
3:h:191:VAL:HG12	3:h:209:PRO:HD3	1.61	0.83
6:6:162:LYS:NZ	6:6:198:GLN:H	1.76	0.83
1:8:40:ALA:HB3	1:8:226:VAL:HB	1.58	0.83
8:A:65:ASP:N	14:G:159:GLY:O	2.11	0.83
15:H:173:ARG:NE	16:I:127:ASP:O	2.12	0.83
15:H:390:ARG:HG2	15:H:394:LYS:HE3	1.60	0.83
19:L:403:ILE:HG23	20:M:203:ARG:HD2	1.59	0.83
21:N:324:LYS:HB2	21:N:328:PHE:H	1.44	0.83
21:N:500:ASP:O	21:N:504:TYR:N	2.12	0.83
24:Q:417:GLY:C	24:Q:421:LYS:HZ1	1.87	0.83
25:R:172:LEU:HB3	25:R:176:ARG:NH1	1.93	0.83
26:S:390:THR:HA	26:S:393:ARG:NH1	1.92	0.83
30:W:98:LEU:HB3	30:W:108:GLN:HG2	1.60	0.83
30:W:143:ASN:O	30:W:174:VAL:N	2.12	0.83
14:g:44:ASP:HB2	14:g:221:LEU:HB3	1.61	0.83
5:j:84:PRO:O	5:j:88:THR:N	2.10	0.83
7:l:142:GLU:O	7:l:146:LYS:N	2.11	0.83
3:3:102:LYS:HZ2	2:9:94:GLN:HB3	1.43	0.83
9:B:218:ASN:ND2	9:B:233:PRO:O	2.12	0.83
14:G:44:ASP:HB2	14:G:221:LEU:HB3	1.61	0.83
17:J:64:LEU:HD21	18:K:121:ARG:HE	1.43	0.83
21:N:344:THR:OG1	21:N:378:ASN:ND2	2.11	0.83
22:O:140:LYS:HA	22:O:181:PHE:CZ	2.14	0.83
2:2:58:ASP:H	2:2:74:ARG:HH21	1.25	0.83
1:8:106:ASN:ND2	12:E:104:ASP:OD2	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:240:ILE:HA	12:E:243:LEU:HD11	1.60	0.83
14:G:126:TYR:HB2	14:G:129:VAL:CG1	2.08	0.83
17:J:163:VAL:HG22	17:J:185:VAL:HG22	1.59	0.83
21:N:318:LYS:NZ	21:N:348:PHE:HB2	1.92	0.83
21:N:466:LEU:O	21:N:470:LEU:N	2.11	0.83
21:N:680:LYS:O	21:N:684:SER:N	2.09	0.83
23:P:254:GLU:HA	23:P:257:TRP:CE3	2.13	0.83
31:X:87:PHE:HB2	31:X:99:PHE:HB2	1.59	0.83
13:f:171:TYR:O	13:f:175:THR:N	2.12	0.83
15:H:253:GLY:HA2	15:H:257:THR:H	1.42	0.83
22:O:352:TRP:CG	22:O:353:VAL:H	1.96	0.83
23:P:372:THR:N	23:P:375:GLN:OE1	2.11	0.83
25:R:118:GLN:O	25:R:122:GLU:N	2.11	0.83
7:l:76:THR:HG23	7:l:108:LYS:HZ2	0.94	0.83
7:l:95:ALA:N	7:l:103:SER:O	2.11	0.83
1:1:209:SER:OG	4:4:225:ARG:NH2	2.11	0.82
3:3:20:THR:CB	3:3:36:ASP:OD2	2.25	0.82
24:Q:9:GLU:O	24:Q:13:ARG:N	2.11	0.82
24:Q:404:ASN:OD1	24:Q:405:GLN:NE2	2.12	0.82
25:R:301:TYR:CD2	25:R:357:PHE:HB3	2.13	0.82
11:d:44:LEU:HB2	11:d:213:THR:HB	1.61	0.82
11:d:96:HIS:ND1	11:d:102:ASP:O	2.11	0.82
5:j:202:MET:O	5:j:204:GLN:NE2	2.12	0.82
4:4:49:SER:HB3	4:4:57:ASP:HB3	1.60	0.82
15:H:58:ASP:O	15:H:62:ARG:N	2.11	0.82
20:M:255:TYR:HD2	20:M:258:GLU:HB2	1.42	0.82
21:N:719:ASN:O	21:N:723:GLY:N	2.12	0.82
21:N:772:GLN:HB3	21:N:869:ASP:H	1.44	0.82
22:O:370:LEU:HD13	28:U:200:LEU:HD22	1.60	0.82
23:P:57:GLU:O	23:P:61:LYS:N	2.11	0.82
23:P:104:LEU:O	23:P:108:LYS:N	2.11	0.82
24:Q:391:ASP:HA	25:R:347:THR:HB	1.59	0.82
24:Q:413:LEU:HD11	25:R:406:GLN:CD	2.04	0.82
29:V:50:MET:O	29:V:71:MET:N	2.11	0.82
9:b:218:ASN:ND2	9:b:233:PRO:O	2.12	0.82
7:l:140:LEU:HG	7:l:144:ARG:NH1	1.94	0.82
6:6:120:ASP:OD1	6:6:124:THR:N	2.12	0.82
7:7:139:ARG:NH2	12:E:69:GLU:OE2	2.11	0.82
7:7:140:LEU:HG	7:7:144:ARG:NH1	1.94	0.82
10:C:168:ASN:ND2	10:C:202:ASP:OD1	2.13	0.82
21:N:562:THR:OG1	21:N:597:ARG:NH1	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:323:ASN:O	23:P:337:HIS:ND1	2.11	0.82
26:S:415:SER:OG	26:S:422:MET:SD	2.36	0.82
27:T:198:ASP:O	27:T:235:PHE:N	2.11	0.82
6:k:68:SER:O	6:k:72:ASP:N	2.12	0.82
7:l:89:VAL:HB	7:l:253:TYR:HB2	1.61	0.82
9:B:41:ASN:HD21	9:B:185:LEU:H	1.26	0.82
14:G:97:ALA:O	14:G:101:LYS:N	2.13	0.82
14:G:175:GLU:HB3	14:G:199:ILE:HG12	1.59	0.82
16:I:259:ASP:O	16:I:263:LEU:N	2.10	0.82
19:L:122:SER:OG	20:M:126:THR:OG1	1.97	0.82
21:N:124:TYR:HB2	21:N:162:ARG:HH11	1.43	0.82
21:N:468:GLU:HA	21:N:471:TYR:HB3	1.62	0.82
21:N:761:ILE:HG22	21:N:762:ARG:H	1.45	0.82
22:O:15:ARG:HH21	30:W:144:PHE:C	1.82	0.82
22:O:263:PHE:O	22:O:267:ASP:N	2.12	0.82
26:S:405:ARG:O	26:S:409:LEU:N	2.12	0.82
27:T:34:LEU:HA	27:T:37:ASN:HB2	1.57	0.82
32:Y:83:ARG:O	32:Y:87:GLU:N	2.12	0.82
10:c:28:SER:HA	10:c:31:HIS:HD2	1.44	0.82
3:3:196:VAL:HB	3:3:203:GLU:HB3	1.62	0.82
13:F:13:PHE:HB3	13:F:17:GLY:HA2	1.62	0.82
14:G:87:HIS:HD2	14:G:132:PHE:CE2	1.94	0.82
19:L:219:LEU:HD23	19:L:346:LYS:HG3	1.61	0.82
20:M:21:GLU:OE2	30:W:73:LEU:HA	1.80	0.82
20:M:145:LEU:HB3	20:M:159:LEU:HB2	1.62	0.82
21:N:525:ASN:HA	21:N:528:ARG:HD3	1.61	0.82
22:O:309:SER:HB3	22:O:347:LEU:HA	1.59	0.82
25:R:267:LYS:HA	25:R:271:ILE:HB	1.61	0.82
25:R:290:SER:O	25:R:294:ILE:N	2.11	0.82
26:S:399:TYR:O	26:S:445:THR:OG1	1.96	0.82
1:1:40:ALA:HB3	1:1:226:VAL:HB	1.58	0.82
1:1:96:PHE:HB3	13:f:89:ARG:NH1	1.95	0.82
7:7:89:VAL:HB	7:7:253:TYR:HB2	1.61	0.82
15:H:150:LYS:HG2	15:H:152:ILE:H	1.44	0.82
18:K:404:GLN:O	18:K:408:GLU:N	2.10	0.82
19:L:244:ILE:N	19:L:277:ILE:O	2.12	0.82
20:M:36:LEU:O	20:M:71:ASN:N	2.11	0.82
22:O:15:ARG:HH22	30:W:145:GLY:N	1.77	0.82
23:P:432:LEU:O	23:P:436:GLU:N	2.12	0.82
24:Q:360:SER:HA	24:Q:363:SER:HB2	1.62	0.82
3:3:180:GLN:HE21	3:h:155:GLY:HA2	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:92:ILE:O	4:4:96:SER:N	2.10	0.82
15:H:211:VAL:HG13	15:H:218:ILE:HD13	1.62	0.82
21:N:381:GLU:O	21:N:385:VAL:N	2.12	0.82
22:O:2:PHE:O	22:O:6:GLU:N	2.11	0.82
22:O:260:VAL:HG11	22:O:265:LYS:HD2	1.62	0.82
23:P:19:LYS:HA	23:P:34:SER:HB2	1.59	0.82
23:P:107:SER:O	23:P:108:LYS:NZ	2.13	0.82
24:Q:223:GLY:HA2	24:Q:226:HIS:HB2	1.62	0.82
24:Q:374:GLU:O	24:Q:378:SER:N	2.13	0.82
26:S:421:TYR:O	26:S:425:ARG:N	2.11	0.82
26:S:471:LEU:HB3	28:U:288:PHE:CA	2.06	0.82
9:b:98:LYS:O	9:b:102:GLY:N	2.11	0.82
9:b:242:GLU:HB3	9:b:246:ARG:NH1	1.94	0.82
3:h:196:VAL:HB	3:h:203:GLU:HB3	1.62	0.82
8:A:243:GLU:CD	8:A:244:ARG:HH12	1.87	0.82
16:I:419:ALA:O	16:I:423:VAL:N	2.13	0.82
21:N:440:ASP:O	21:N:444:HIS:N	2.13	0.82
22:O:104:ALA:HB2	22:O:132:GLU:HG3	1.61	0.82
26:S:425:ARG:NH1	27:T:156:SER:H	1.77	0.82
27:T:178:THR:HG22	27:T:182:LYS:HZ2	1.42	0.82
31:X:85:ARG:HA	31:X:115:SER:HB2	1.60	0.82
14:g:97:ALA:O	14:g:101:LYS:N	2.13	0.82
2:2:44:VAL:N	2:2:177:THR:OG1	2.10	0.82
3:3:20:THR:HA	3:3:188:SER:OG	1.79	0.82
5:5:28:ARG:O	5:5:42:LYS:NZ	2.13	0.82
6:6:68:SER:O	6:6:72:ASP:N	2.12	0.82
1:8:79:ASP:OD2	1:8:125:TYR:N	2.13	0.82
9:B:242:GLU:HB3	9:B:246:ARG:NH1	1.94	0.82
11:D:37:LYS:HE2	11:D:160:SER:HA	1.62	0.82
14:G:33:ASN:HA	14:G:167:LYS:NZ	1.95	0.82
14:G:52:LYS:O	14:G:213:GLU:N	2.10	0.82
15:H:97:LEU:HD21	15:H:173:ARG:HB3	1.62	0.82
16:I:362:LEU:HD21	16:I:384:LYS:NZ	1.95	0.82
21:N:365:PHE:HB2	21:N:399:PHE:HB3	1.61	0.82
25:R:365:ASP:O	25:R:369:GLY:N	2.11	0.82
26:S:235:ASN:ND2	26:S:259:TYR:OH	2.12	0.82
10:c:47:ALA:HB1	10:c:197:LEU:HD11	1.61	0.82
5:j:28:ARG:O	5:j:42:LYS:NZ	2.13	0.82
1:1:78:ALA:H	2:2:168:VAL:HG22	1.45	0.82
4:4:204:VAL:O	4:4:216:LEU:N	2.11	0.82
11:D:44:LEU:HB2	11:D:213:THR:HB	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:171:TYR:O	13:F:175:THR:N	2.12	0.82
15:H:244:LYS:HB3	15:H:346:ARG:HE	1.44	0.82
23:P:337:HIS:O	23:P:341:LEU:N	2.12	0.82
25:R:285:ALA:C	25:R:286:LEU:HG	2.05	0.82
28:U:166:ALA:HB2	29:V:42:ARG:HD2	1.60	0.82
9:b:141:GLU:OE2	5:j:115:LYS:HG2	1.80	0.82
14:g:52:LYS:O	14:g:213:GLU:N	2.10	0.82
6:k:52:ASP:OD1	7:l:163:TYR:OH	1.97	0.82
2:2:109:TYR:HB3	14:g:93:ARG:NH1	1.95	0.81
2:2:135:GLN:HB3	2:2:139:LYS:HZ3	1.42	0.81
6:6:3:ILE:HB	6:6:18:SER:HB3	1.62	0.81
12:E:71:ASP:N	12:E:74:ILE:O	2.11	0.81
14:G:67:ILE:HG12	14:G:77:VAL:HB	1.62	0.81
14:G:175:GLU:OE1	14:G:198:LYS:NZ	2.13	0.81
14:G:218:TRP:CZ3	14:G:224:THR:HG23	2.15	0.81
17:J:163:VAL:HG23	17:J:312:ARG:HB3	1.59	0.81
19:L:246:SER:N	19:L:279:PHE:O	2.12	0.81
20:M:180:TYR:HB3	20:M:190:ILE:HD13	1.62	0.81
22:O:225:ASP:HA	22:O:226:LYS:HB2	1.62	0.81
25:R:63:TYR:HA	25:R:66:LEU:HB3	1.62	0.81
26:S:479:MET:HE1	28:U:291:LEU:HD11	1.62	0.81
10:c:168:ASN:ND2	10:c:202:ASP:OD1	2.13	0.81
11:d:90:ARG:HH11	6:k:70:ARG:HA	1.45	0.81
2:2:60:LEU:HA	2:2:70:ASN:HA	1.59	0.81
14:G:200:ILE:HG21	14:G:214:LEU:HD13	1.60	0.81
17:J:75:VAL:O	17:J:110:SER:N	2.13	0.81
21:N:295:THR:O	21:N:299:TYR:N	2.10	0.81
21:N:439:VAL:O	21:N:443:LEU:N	2.11	0.81
22:O:19:ASP:HB3	22:O:72:LYS:NZ	1.95	0.81
22:O:58:ARG:O	22:O:62:TYR:N	2.09	0.81
26:S:231:ALA:O	26:S:235:ASN:N	2.11	0.81
13:f:136:GLY:O	13:f:143:HIS:N	2.13	0.81
1:8:77:ALA:HB3	2:9:168:VAL:HG13	1.61	0.81
2:9:90:ILE:O	2:9:94:GLN:N	2.11	0.81
14:G:45:GLY:HA2	14:G:146:ALA:HB2	1.62	0.81
14:G:51:GLU:O	14:G:66:LYS:NZ	2.14	0.81
17:J:159:GLU:HB3	17:J:314:ILE:HG21	1.59	0.81
18:K:237:VAL:O	18:K:272:ASP:N	2.11	0.81
18:K:297:ILE:HD13	18:K:300:LEU:HD12	1.62	0.81
21:N:113:ALA:O	21:N:117:TYR:N	2.10	0.81
22:O:166:ARG:HA	22:O:169:ASN:HB3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:383:LYS:O	22:O:387:ARG:N	2.13	0.81
23:P:393:VAL:HG12	24:Q:357:VAL:HG11	1.62	0.81
24:Q:126:LYS:HG2	24:Q:134:LYS:NZ	1.96	0.81
24:Q:329:GLU:O	24:Q:333:SER:N	2.13	0.81
25:R:49:PHE:O	25:R:53:LYS:N	2.12	0.81
26:S:479:MET:CE	28:U:291:LEU:HD11	2.10	0.81
27:T:194:GLU:O	27:T:238:GLN:NE2	2.13	0.81
30:W:37:PHE:CZ	30:W:68:GLU:N	2.48	0.81
33:Z:359:LYS:HG3	33:Z:394:TYR:HA	1.62	0.81
9:b:57:MET:HB3	9:b:59:GLU:OE2	1.79	0.81
14:g:141:VAL:HA	14:g:146:ALA:HA	1.62	0.81
4:4:129:VAL:HG13	4:4:140:PHE:HB2	1.61	0.81
11:D:75:PHE:HA	11:D:133:THR:HA	1.62	0.81
14:G:141:VAL:HA	14:G:146:ALA:HA	1.62	0.81
16:I:399:ALA:HB1	16:I:411:VAL:HG11	1.61	0.81
21:N:424:LYS:O	21:N:428:VAL:N	2.13	0.81
22:O:34:GLU:HB3	22:O:36:LYS:H	1.45	0.81
33:Z:369:PHE:HE2	33:Z:859:LYS:CE	1.77	0.81
8:a:51:THR:HB	8:a:228:ALA:HB3	1.62	0.81
14:g:33:ASN:HA	14:g:167:LYS:NZ	1.95	0.81
1:1:79:ASP:OD2	1:1:125:TYR:N	2.13	0.81
5:5:55:GLY:HA3	5:5:105:VAL:HA	1.63	0.81
9:B:128:ARG:NH1	9:B:129:PRO:O	2.13	0.81
14:G:9:ASP:HA	14:G:22:PHE:HB2	1.62	0.81
21:N:211:PHE:O	21:N:215:MET:N	2.13	0.81
22:O:311:GLU:HB3	22:O:315:LYS:NZ	1.96	0.81
23:P:157:ALA:O	23:P:161:CYS:N	2.13	0.81
23:P:422:LEU:HD22	23:P:426:ILE:CG1	2.10	0.81
26:S:152:LEU:O	26:S:156:VAL:N	2.13	0.81
14:g:218:TRP:CZ3	14:g:224:THR:HG23	2.15	0.81
7:7:110:ILE:CD1	7:7:131:GLU:OE1	2.28	0.81
7:7:214:VAL:HG23	6:k:142:SER:HB2	1.59	0.81
9:B:160:LYS:HD2	10:C:56:LEU:HA	1.62	0.81
21:N:460:ILE:O	21:N:464:GLU:N	2.10	0.81
23:P:422:LEU:HA	23:P:425:HIS:HB3	1.63	0.81
24:Q:167:LYS:HD3	24:Q:171:LYS:HE3	1.63	0.81
33:Z:225:LEU:HD11	33:Z:253:VAL:HA	1.62	0.81
12:e:187:TRP:HA	12:e:191:LEU:HD11	1.60	0.81
13:f:13:PHE:HB3	13:f:17:GLY:HA2	1.62	0.81
14:g:200:ILE:HG21	14:g:214:LEU:HD13	1.60	0.81
5:5:202:MET:O	5:5:204:GLN:NE2	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:307:LEU:O	16:I:311:ASN:N	2.13	0.81
21:N:96:GLN:O	21:N:100:THR:N	2.11	0.81
21:N:332:VAL:HG23	21:N:355:TRP:HH2	1.46	0.81
22:O:43:GLU:N	22:O:47:LYS:HB3	1.96	0.81
24:Q:218:LEU:O	24:Q:222:SER:N	2.14	0.81
25:R:205:GLU:OE1	25:R:206:ARG:NH1	2.13	0.81
25:R:380:VAL:HB	25:R:389:GLU:HB2	1.61	0.81
9:b:98:LYS:NZ	9:b:104:TYR:OH	2.14	0.81
4:4:247:VAL:HB	5:5:195:VAL:HB	1.61	0.81
15:H:317:ALA:HB2	15:H:363:PRO:HD3	1.61	0.81
17:J:250:ILE:HG12	17:J:292:MET:HE1	1.61	0.81
18:K:259:ARG:O	18:K:263:GLU:N	2.14	0.81
22:O:367:LYS:O	22:O:371:VAL:N	2.12	0.81
23:P:208:PHE:HB2	23:P:217:LYS:HZ1	1.43	0.81
12:e:136:ARG:NH1	12:e:137:PRO:O	2.14	0.81
3:h:20:THR:HA	3:h:188:SER:CB	2.10	0.81
4:i:92:ILE:O	4:i:96:SER:N	2.10	0.81
7:l:125:ALA:O	7:l:129:PHE:N	2.14	0.81
1:8:27:ASN:O	1:8:49:ILE:O	1.97	0.81
19:L:227:GLY:O	19:L:231:LEU:N	2.13	0.81
20:M:197:ILE:HG22	20:M:239:THR:HG21	1.60	0.81
24:Q:155:LEU:HA	24:Q:158:ILE:HB	1.63	0.81
25:R:378:ASN:HB3	25:R:391:ASN:H	1.43	0.81
26:S:418:THR:O	26:S:422:MET:N	2.11	0.81
30:W:123:ASP:HB3	30:W:127:ARG:HH12	1.46	0.81
33:Z:862:MET:HA	33:Z:910:PRO:HA	1.62	0.81
9:b:128:ARG:NH1	9:b:129:PRO:O	2.13	0.81
11:d:75:PHE:HA	11:d:133:THR:HA	1.62	0.81
14:g:51:GLU:O	14:g:66:LYS:NZ	2.14	0.81
4:i:129:VAL:HG13	4:i:140:PHE:HB2	1.61	0.81
6:6:14:ILE:HG12	6:6:183:ILE:HG12	1.62	0.81
7:7:95:ALA:N	7:7:103:SER:O	2.11	0.81
11:D:138:PHE:CE1	11:D:145:PRO:HA	2.16	0.81
15:H:215:LYS:O	15:H:219:GLU:N	2.13	0.81
21:N:542:SER:HB2	21:N:547:LEU:HB2	1.62	0.81
24:Q:279:LYS:O	24:Q:283:ASN:N	2.12	0.81
25:R:99:TYR:O	25:R:103:CYS:N	2.14	0.81
29:V:127:LYS:HA	29:V:130:GLU:OE2	1.80	0.81
29:V:209:GLU:O	29:V:213:LEU:N	2.11	0.81
33:Z:762:GLY:H	33:Z:789:GLN:HE21	1.25	0.81
9:b:241:GLN:O	9:b:245:ASP:N	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:14:ILE:HG12	6:k:183:ILE:HG12	1.62	0.81
7:7:96:THR:HA	7:7:102:ALA:H	1.46	0.80
15:H:200:VAL:HG11	15:H:301:LYS:HZ3	1.46	0.80
18:K:253:MET:HB3	18:K:257:VAL:HG23	1.63	0.80
24:Q:40:ALA:HA	24:Q:46:VAL:HA	1.61	0.80
24:Q:140:LYS:O	24:Q:144:LEU:N	2.11	0.80
25:R:304:TYR:HA	25:R:307:TYR:CD2	2.15	0.80
26:S:336:SER:HA	26:S:339:GLN:HE22	1.47	0.80
29:V:231:GLU:O	29:V:235:GLU:N	2.14	0.80
13:f:50:LYS:N	13:f:210:ASN:O	2.12	0.80
14:g:9:ASP:HA	14:g:22:PHE:HB2	1.62	0.80
7:l:84:GLN:HB2	7:l:222:ASP:HA	1.63	0.80
9:B:57:MET:HB3	9:B:59:GLU:OE2	1.79	0.80
16:I:389:GLY:HA2	16:I:392:ILE:HD12	1.62	0.80
17:J:318:PRO:HB2	17:J:319:PRO:O	1.81	0.80
23:P:113:ASN:HA	23:P:116:ILE:HB	1.62	0.80
25:R:176:ARG:HA	25:R:243:LEU:HD21	1.62	0.80
26:S:471:LEU:CD2	28:U:292:ILE:HD13	2.02	0.80
33:Z:202:ARG:NH1	33:Z:205:LEU:HD13	1.95	0.80
33:Z:616:LEU:HB3	33:Z:746:ILE:HD12	1.63	0.80
14:g:67:ILE:HG12	14:g:77:VAL:HB	1.62	0.80
6:k:120:ASP:OD1	6:k:124:THR:N	2.12	0.80
1:8:225:ILE:N	1:8:232:ARG:O	2.12	0.80
13:F:136:GLY:O	13:F:143:HIS:N	2.13	0.80
15:H:100:ALA:N	15:H:177:ASP:OD1	2.09	0.80
15:H:199:THR:HB	15:H:273:ARG:HB3	1.61	0.80
15:H:220:LYS:HA	20:M:404:ARG:HH22	1.46	0.80
18:K:266:PRO:HA	18:K:311:ASN:HB3	1.62	0.80
21:N:68:VAL:O	21:N:72:LEU:N	2.14	0.80
22:O:166:ARG:O	22:O:170:SER:N	2.14	0.80
25:R:335:ARG:CZ	25:R:376:GLN:HB2	2.10	0.80
29:V:136:ALA:H	29:V:157:ARG:HD3	1.45	0.80
33:Z:407:VAL:O	33:Z:410:THR:OG1	2.00	0.80
4:i:228:LYS:NZ	5:j:154:TYR:O	2.14	0.80
1:1:156:ARG:HH22	7:l:103:SER:HB2	1.46	0.80
8:A:51:THR:HB	8:A:228:ALA:HB3	1.62	0.80
10:C:47:ALA:HB1	10:C:197:LEU:HD11	1.61	0.80
10:C:218:LYS:HA	10:C:225:VAL:HA	1.63	0.80
19:L:400:PHE:HE1	20:M:215:PRO:HD3	1.47	0.80
22:O:131:SER:O	22:O:135:ARG:N	2.13	0.80
22:O:382:LYS:HG2	22:O:383:LYS:HG3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:29:SER:HA	24:Q:32:ASP:HB2	1.63	0.80
24:Q:355:GLU:OE2	24:Q:388:GLY:HA3	1.80	0.80
25:R:202:GLY:HA3	25:R:206:ARG:HG2	1.64	0.80
27:T:258:ASN:O	27:T:262:LYS:N	2.12	0.80
29:V:28:TYR:N	29:V:63:VAL:O	2.15	0.80
33:Z:161:ILE:HB	33:Z:203:LEU:HD13	1.62	0.80
10:c:13:PHE:H	11:d:19:GLN:HE22	1.28	0.80
10:c:100:LYS:HA	5:j:68:ARG:NH2	1.95	0.80
1:8:225:ILE:HB	1:8:232:ARG:HB3	1.64	0.80
2:9:135:GLN:HB3	2:9:139:LYS:HZ3	1.44	0.80
10:C:53:THR:HG21	10:C:210:ARG:HA	1.62	0.80
19:L:290:ARG:HD2	19:L:298:ASP:HB3	1.63	0.80
22:O:11:LEU:HD23	22:O:14:LEU:HB2	1.60	0.80
23:P:417:HIS:O	23:P:421:GLU:N	2.13	0.80
26:S:465:ILE:HA	28:U:280:ASN:ND2	1.96	0.80
27:T:34:LEU:HD23	27:T:37:ASN:HD22	1.47	0.80
30:W:53:SER:N	30:W:60:ARG:O	2.13	0.80
33:Z:417:SER:O	33:Z:421:SER:N	2.13	0.80
5:j:95:LEU:O	5:j:98:ARG:N	2.12	0.80
5:5:95:LEU:O	5:5:98:ARG:N	2.12	0.80
8:A:219:SER:N	8:A:222:ASP:OD2	2.14	0.80
9:B:98:LYS:NZ	9:B:104:TYR:OH	2.14	0.80
11:D:9:SER:HB3	11:D:17:ILE:HD13	1.64	0.80
12:E:136:ARG:NH1	12:E:137:PRO:O	2.14	0.80
15:H:254:THR:HG21	15:H:415:THR:HB	1.63	0.80
16:I:184:ILE:HD12	16:I:187:LEU:HD12	1.62	0.80
18:K:182:GLN:HE21	18:K:186:GLU:HG3	1.46	0.80
33:Z:776:VAL:O	33:Z:780:MET:N	2.15	0.80
11:d:193:LYS:HZ1	11:d:239:GLU:CD	1.88	0.80
14:g:45:GLY:HA2	14:g:146:ALA:HB2	1.62	0.80
7:l:96:THR:HA	7:l:102:ALA:H	1.46	0.80
3:3:132:ILE:HG12	3:3:138:VAL:HG22	1.62	0.80
3:3:190:GLY:O	3:3:212:TYR:OH	2.00	0.80
12:E:26:TYR:HA	12:E:29:GLU:HG2	1.64	0.80
15:H:403:ARG:HB2	15:H:406:LEU:HG	1.64	0.80
18:K:99:PHE:N	18:K:135:MET:O	2.10	0.80
19:L:370:LYS:HG2	19:L:410:ILE:HB	1.62	0.80
21:N:15:GLU:OE2	27:T:80:ASN:HB3	1.81	0.80
21:N:274:VAL:HG22	21:N:290:LEU:HD13	1.64	0.80
21:N:615:ALA:O	21:N:619:CYS:N	2.15	0.80
22:O:72:LYS:HG3	22:O:73:ILE:H	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:4:PRO:O	24:Q:50:ARG:NH1	2.15	0.80
24:Q:57:SER:O	24:Q:61:LEU:N	2.14	0.80
26:S:483:GLU:OE2	28:U:295:LYS:NZ	2.14	0.80
11:d:138:PHE:CE1	11:d:145:PRO:HA	2.16	0.80
1:8:156:ARG:NH1	1:8:166:MET:HE2	1.97	0.80
8:A:200:GLU:HG3	8:A:244:ARG:NH2	1.97	0.80
19:L:103:GLN:O	20:M:128:PHE:N	2.15	0.80
19:L:199:LEU:O	19:L:203:ASN:N	2.15	0.80
22:O:233:LEU:HA	22:O:236:HIS:HD2	1.46	0.80
22:O:272:VAL:O	22:O:276:LYS:N	2.15	0.80
23:P:295:SER:HA	23:P:298:SER:HB2	1.62	0.80
26:S:153:GLU:HA	26:S:156:VAL:HG23	1.62	0.80
26:S:479:MET:HG3	26:S:483:GLU:OE1	1.82	0.80
27:T:220:PHE:O	27:T:224:ARG:N	2.11	0.80
33:Z:415:MET:HG2	33:Z:447:VAL:HG22	1.64	0.80
33:Z:897:HIS:HD2	33:Z:899:GLN:HG2	1.47	0.80
12:e:243:LEU:O	12:e:247:GLU:N	2.12	0.80
3:h:132:ILE:HG12	3:h:138:VAL:HG22	1.62	0.80
1:1:225:ILE:HB	1:1:232:ARG:HB3	1.64	0.80
19:L:70:TYR:HA	20:M:12:LEU:HD21	1.64	0.80
19:L:256:ILE:HD12	19:L:303:ARG:HH11	1.46	0.80
21:N:315:ASN:O	21:N:319:SER:N	2.10	0.80
21:N:493:GLY:HA3	21:N:524:ILE:HB	1.64	0.80
22:O:16:MET:SD	30:W:18:ASN:ND2	2.55	0.80
23:P:67:ALA:HB1	23:P:72:TRP:CH2	2.17	0.80
23:P:422:LEU:HD22	23:P:426:ILE:HG12	1.63	0.80
23:P:429:ILE:HA	28:U:229:LEU:HD22	1.64	0.80
29:V:37:MET:CG	29:V:108:TYR:CD2	2.63	0.80
13:F:46:LEU:HB2	13:F:214:ALA:HB3	1.64	0.80
17:J:344:ARG:O	17:J:348:GLU:N	2.15	0.80
18:K:106:ASN:ND2	18:K:124:SER:OG	2.14	0.80
18:K:207:ARG:NH1	18:K:306:PHE:O	2.14	0.80
21:N:784:TYR:HB2	21:N:873:ARG:HE	1.46	0.80
22:O:6:GLU:O	22:O:10:ILE:N	2.10	0.80
23:P:193:TYR:O	23:P:197:THR:N	2.15	0.80
29:V:37:MET:CG	29:V:108:TYR:CE2	2.65	0.80
10:c:53:THR:HG21	10:c:210:ARG:HA	1.62	0.80
13:f:43:HIS:HB3	13:f:215:ILE:HD11	1.64	0.80
7:l:113:ASN:OD1	7:l:116:LEU:N	2.15	0.80
2:2:90:ILE:O	2:2:94:GLN:N	2.11	0.79
13:F:50:LYS:N	13:F:210:ASN:O	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:385:ARG:NH1	15:H:413:ASN:OD1	2.15	0.79
21:N:399:PHE:HE1	21:N:438:ASP:HA	1.47	0.79
23:P:136:ARG:O	23:P:140:THR:OG1	1.99	0.79
26:S:232:MET:O	26:S:236:LEU:N	2.12	0.79
27:T:89:TYR:HA	27:T:102:LYS:HE3	1.62	0.79
9:b:1:MET:HG2	9:b:2:THR:H	1.47	0.79
10:c:175:LEU:HD13	10:c:199:LYS:HE2	1.63	0.79
12:e:26:TYR:HA	12:e:29:GLU:HG2	1.64	0.79
12:e:71:ASP:N	12:e:74:ILE:O	2.11	0.79
5:j:28:ARG:NH1	5:j:180:LEU:O	2.14	0.79
2:2:193:ASP:N	2:2:197:ASP:OD2	2.15	0.79
5:5:28:ARG:NH1	5:5:180:LEU:O	2.14	0.79
1:8:134:ASP:OD1	1:8:138:LYS:N	2.16	0.79
13:F:20:PHE:O	13:F:24:TYR:N	2.14	0.79
20:M:370:THR:HA	20:M:410:VAL:H	1.47	0.79
21:N:205:SER:O	21:N:209:LYS:NZ	2.16	0.79
22:O:1:MET:H3	22:O:39:PHE:HZ	1.28	0.79
22:O:1:MET:N	22:O:35:GLU:O	2.14	0.79
22:O:99:LEU:HD12	22:O:103:LYS:HA	1.64	0.79
26:S:390:THR:HG23	26:S:393:ARG:HH22	1.46	0.79
27:T:57:ILE:HG22	27:T:61:ILE:HG13	1.64	0.79
11:d:37:LYS:HE2	11:d:160:SER:HA	1.62	0.79
11:d:151:GLU:OE2	11:d:155:ILE:HB	1.82	0.79
12:e:17:PRO:HA	13:f:24:TYR:CD1	2.18	0.79
14:g:205:GLU:HA	14:g:208:LYS:HB3	1.63	0.79
3:h:26:THR:HG23	3:h:129:VAL:HG23	1.63	0.79
9:B:35:LEU:HA	9:B:163:ALA:HA	1.64	0.79
10:C:175:LEU:HD13	10:C:199:LYS:HE2	1.63	0.79
15:H:421:SER:HB2	15:H:450:VAL:HG11	1.64	0.79
19:L:71:ASP:C	19:L:75:LYS:HZ3	1.89	0.79
19:L:80:ASN:HA	19:L:83:ASP:OD2	1.82	0.79
20:M:127:VAL:HG21	20:M:153:TYR:HB3	1.62	0.79
21:N:360:GLN:H	21:N:363:ALA:HB3	1.46	0.79
22:O:166:ARG:NH1	22:O:170:SER:HB2	1.97	0.79
23:P:298:SER:O	23:P:302:LEU:N	2.16	0.79
25:R:185:LEU:O	25:R:189:GLU:N	2.10	0.79
26:S:160:ARG:HH22	26:S:206:GLN:HB3	1.45	0.79
26:S:390:THR:C	26:S:394:ILE:HD12	2.06	0.79
27:T:178:THR:HG22	27:T:182:LYS:NZ	1.97	0.79
28:U:28:LYS:HZ3	28:U:31:LYS:HZ1	1.30	0.79
30:W:17:ARG:HH12	30:W:18:ASN:HD22	1.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:11:SER:HB3	14:g:127:ASN:CB	2.12	0.79
14:g:168:GLY:HA2	14:g:206:ASP:OD2	1.83	0.79
1:1:156:ARG:NH1	1:1:166:MET:HE2	1.97	0.79
1:1:225:ILE:N	1:1:232:ARG:O	2.12	0.79
3:3:21:SER:HA	3:3:147:GLY:HA3	1.62	0.79
6:6:118:GLN:NE2	6:6:132:ALA:O	2.16	0.79
18:K:215:PRO:HA	18:K:219:LYS:HB3	1.63	0.79
18:K:262:ARG:HH12	18:K:306:PHE:HB3	1.48	0.79
21:N:368:THR:HB	21:N:403:GLY:HA3	1.64	0.79
22:O:99:LEU:HB2	22:O:135:ARG:HH22	1.46	0.79
23:P:186:LEU:HD23	23:P:189:LEU:HD12	1.63	0.79
25:R:372:ILE:HB	26:S:395:ILE:HG23	1.64	0.79
26:S:145:PHE:HB2	26:S:147:TRP:HB2	1.64	0.79
28:U:276:ILE:HA	29:V:291:ASN:HD22	1.46	0.79
30:W:67:ALA:CB	30:W:68:GLU:HB2	2.13	0.79
10:c:159:GLY:HA3	11:d:59:ILE:HG13	1.64	0.79
6:k:118:GLN:NE2	6:k:132:ALA:O	2.16	0.79
7:l:173:GLY:HA2	7:l:191:ASP:HA	1.65	0.79
3:3:23:MET:HE2	3:3:174:ILE:HG12	1.64	0.79
3:3:25:VAL:HG22	3:3:143:TYR:HB2	1.64	0.79
3:3:122:ASP:OD2	3:3:125:ASN:N	2.15	0.79
2:9:44:VAL:N	2:9:177:THR:OG1	2.10	0.79
12:E:23:GLN:O	12:E:27:SER:N	2.12	0.79
12:E:122:ARG:HA	12:E:132:ARG:HB3	1.63	0.79
16:I:161:GLN:HA	16:I:162:ASP:OD1	1.83	0.79
18:K:276:SER:HA	19:L:299:ARG:NH1	1.98	0.79
19:L:291:PHE:HB3	19:L:298:ASP:OD2	1.83	0.79
25:R:140:TYR:O	25:R:144:ILE:N	2.16	0.79
28:U:141:GLU:HA	28:U:152:LYS:HA	1.64	0.79
29:V:29:ILE:HA	29:V:65:VAL:HB	1.63	0.79
12:e:23:GLN:O	12:e:27:SER:N	2.12	0.79
13:f:20:PHE:O	13:f:24:TYR:N	2.14	0.79
3:h:190:GLY:O	3:h:212:TYR:OH	2.00	0.79
2:2:34:THR:N	2:2:141:ASN:HA	1.98	0.79
6:6:52:ASP:H	7:7:166:LYS:NZ	1.81	0.79
7:7:113:ASN:OD1	7:7:116:LEU:N	2.15	0.79
1:8:27:ASN:HD21	2:9:168:VAL:HG11	1.47	0.79
11:D:122:GLN:O	12:E:135:SER:N	2.10	0.79
14:G:168:GLY:HA2	14:G:206:ASP:OD2	1.83	0.79
15:H:277:SER:O	15:H:281:GLN:NE2	2.16	0.79
19:L:114:GLU:O	19:L:117:TYR:OH	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:405:ASN:HD22	20:M:411:LYS:HZ3	1.31	0.79
21:N:776:TYR:N	21:N:864:LYS:O	2.16	0.79
22:O:99:LEU:O	22:O:103:LYS:N	2.15	0.79
23:P:382:ASP:O	23:P:386:GLN:N	2.13	0.79
25:R:201:GLY:HA3	25:R:207:ARG:HG3	1.65	0.79
33:Z:266:LYS:HE2	33:Z:290:GLU:OE2	1.82	0.79
33:Z:451:ALA:O	33:Z:455:ILE:N	2.12	0.79
33:Z:457:ILE:HA	33:Z:460:SER:HB2	1.62	0.79
13:f:46:LEU:HB2	13:f:214:ALA:HB3	1.64	0.79
14:g:175:GLU:OE1	14:g:198:LYS:NZ	2.13	0.79
1:1:223:ILE:HB	1:1:234:GLU:HB2	1.65	0.79
6:6:39:SER:OG	6:6:74:GLU:OE2	2.00	0.79
1:8:214:HIS:HD2	1:8:217:VAL:HG23	1.47	0.79
8:A:207:ILE:HD12	8:A:244:ARG:HB3	1.64	0.79
22:O:47:LYS:HA	22:O:50:ASP:HB2	1.65	0.79
24:Q:332:ARG:O	24:Q:336:ASN:ND2	2.16	0.79
27:T:215:LYS:C	27:T:219:LYS:HZ3	1.90	0.79
31:X:75:TRP:HB3	31:X:126:ILE:HD13	1.64	0.79
33:Z:416:THR:HA	33:Z:450:GLY:HA2	1.65	0.79
8:a:61:ASP:HB3	8:a:64:LEU:HG	1.64	0.79
9:b:35:LEU:HA	9:b:163:ALA:HA	1.64	0.79
14:g:12:ASN:ND2	14:g:123:HIS:O	2.15	0.79
2:9:193:ASP:N	2:9:197:ASP:OD2	2.15	0.79
8:A:61:ASP:HB3	8:A:64:LEU:HG	1.64	0.79
9:B:1:MET:HG2	9:B:2:THR:H	1.47	0.79
11:D:118:GLN:O	11:D:121:THR:OG1	2.00	0.79
15:H:216:ASP:C	15:H:220:LYS:HZ3	1.91	0.79
20:M:278:ILE:N	20:M:322:LYS:O	2.15	0.79
21:N:528:ARG:HB3	21:N:531:LEU:HB2	1.65	0.79
23:P:127:GLU:HG2	23:P:128:ASN:H	1.46	0.79
33:Z:307:HIS:NE2	33:Z:339:PHE:O	2.15	0.79
11:d:189:GLU:O	11:d:193:LYS:N	2.13	0.79
5:j:55:GLY:HA3	5:j:105:VAL:HA	1.62	0.79
4:4:39:ASN:ND2	4:4:208:GLU:OE2	2.16	0.79
12:E:128:SER:OG	13:F:122:SER:O	2.01	0.79
18:K:271:ILE:HD12	18:K:316:MET:HG2	1.65	0.79
18:K:394:ALA:O	18:K:399:ARG:N	2.15	0.79
21:N:181:GLU:O	21:N:185:ILE:N	2.15	0.79
23:P:107:SER:HB3	23:P:111:ASP:OD2	1.81	0.79
29:V:267:LYS:HB3	29:V:276:PRO:HG3	1.64	0.79
10:c:218:LYS:HA	10:c:225:VAL:HA	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:55:ASN:O	2:9:189:ARG:NH2	2.16	0.79
15:H:441:LYS:HA	15:H:444:LEU:HB2	1.63	0.79
18:K:191:PRO:HB2	18:K:313:LYS:HZ3	1.44	0.79
21:N:529:GLN:HA	21:N:558:ALA:HB1	1.64	0.79
22:O:11:LEU:CD2	22:O:14:LEU:CB	2.57	0.79
22:O:152:ASP:O	22:O:156:THR:N	2.13	0.79
22:O:310:PHE:CD1	22:O:348:VAL:HG22	2.18	0.79
25:R:34:THR:HG22	25:R:70:TYR:HB2	1.65	0.79
25:R:316:LEU:HA	25:R:322:LEU:HB3	1.64	0.79
26:S:471:LEU:CB	28:U:288:PHE:HA	2.08	0.79
26:S:486:LYS:HZ2	28:U:298:ASN:CB	1.94	0.79
11:d:169:LYS:HZ2	11:d:172:ARG:HD2	1.47	0.79
6:k:5:LEU:HD21	6:k:136:SER:HB3	1.65	0.79
1:1:65:CYS:HA	1:1:88:LYS:HE2	1.65	0.78
2:2:45:ILE:HA	2:2:176:ALA:HA	1.64	0.78
3:3:26:THR:HG23	3:3:129:VAL:HG23	1.63	0.78
6:6:65:GLN:HB2	11:D:94:GLN:HE22	1.46	0.78
7:7:84:GLN:HB2	7:7:222:ASP:HA	1.63	0.78
7:7:137:GLN:O	7:7:141:HIS:N	2.12	0.78
7:7:173:GLY:HA2	7:7:191:ASP:HA	1.65	0.78
1:8:122:PHE:HZ	2:9:137:ARG:HH12	1.29	0.78
8:A:70:SER:OG	8:A:224:GLU:OE2	2.00	0.78
16:I:310:LEU:HD13	16:I:338:LEU:HA	1.64	0.78
21:N:46:ILE:HG23	21:N:61:ALA:HB1	1.65	0.78
24:Q:314:PHE:O	24:Q:318:LEU:N	2.12	0.78
10:c:103:ASN:HD22	6:k:82:SER:HB3	1.46	0.78
12:e:211:LYS:O	12:e:216:ASN:ND2	2.16	0.78
3:h:25:VAL:HG22	3:h:143:TYR:HB2	1.64	0.78
4:i:46:ASP:OD1	4:i:62:LYS:NZ	2.16	0.78
7:l:82:ARG:HG3	7:l:185:PRO:HB2	1.66	0.78
1:1:23:PRO:O	2:2:137:ARG:NH1	2.15	0.78
7:7:82:ARG:HG3	7:7:185:PRO:HB2	1.65	0.78
1:8:108:ALA:O	1:8:112:ILE:N	2.12	0.78
9:B:242:GLU:HB3	9:B:246:ARG:HH12	1.48	0.78
10:C:28:SER:HA	10:C:31:HIS:CD2	2.18	0.78
14:G:12:ASN:ND2	14:G:123:HIS:O	2.15	0.78
14:G:205:GLU:HA	14:G:208:LYS:HB3	1.63	0.78
17:J:134:VAL:HG12	17:J:135:SER:H	1.48	0.78
21:N:302:PHE:O	21:N:306:ASN:N	2.11	0.78
21:N:535:LEU:O	21:N:539:MET:N	2.11	0.78
24:Q:13:ARG:O	24:Q:17:GLU:N	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:115:GLU:HA	25:R:118:GLN:HB3	1.65	0.78
25:R:187:VAL:O	25:R:191:LEU:N	2.13	0.78
27:T:265:ASP:CG	28:U:189:ARG:HH21	1.91	0.78
11:d:9:SER:HB3	11:d:17:ILE:HD13	1.64	0.78
14:g:121:GLN:O	14:g:124:THR:OG1	2.02	0.78
5:j:59:ASP:OD2	5:j:104:PHE:N	2.15	0.78
6:k:41:HIS:CD2	6:k:109:LYS:HD3	2.18	0.78
7:l:76:THR:CG2	7:l:108:LYS:HZ2	1.84	0.78
7:7:148:ARG:NH1	7:7:257:GLU:O	2.15	0.78
1:8:65:CYS:HA	1:8:88:LYS:HE2	1.65	0.78
15:H:253:GLY:N	15:H:256:LYS:HB3	1.98	0.78
21:N:111:GLN:C	21:N:115:LYS:HZ3	1.92	0.78
24:Q:8:LEU:HB2	24:Q:50:ARG:HH12	1.47	0.78
26:S:471:LEU:CD1	28:U:288:PHE:C	2.54	0.78
28:U:127:GLN:HA	28:U:133:PRO:HB3	1.65	0.78
12:e:122:ARG:HA	12:e:132:ARG:HB3	1.63	0.78
6:k:39:SER:OG	6:k:74:GLU:OE2	2.00	0.78
7:7:101:VAL:HB	5:j:177:ARG:HD3	1.66	0.78
9:B:185:LEU:O	9:B:189:ILE:N	2.14	0.78
10:C:50:ARG:N	10:C:210:ARG:O	2.17	0.78
11:D:34:VAL:HA	11:D:163:THR:HA	1.63	0.78
11:D:174:PHE:C	11:D:178:ASN:HD22	1.92	0.78
13:F:11:VAL:CG2	14:G:130:ARG:HB2	2.12	0.78
15:H:309:ASP:HA	15:H:354:ALA:HB3	1.65	0.78
16:I:108:THR:O	16:I:121:THR:N	2.12	0.78
18:K:245:LYS:HZ2	19:L:254:LYS:HB3	1.48	0.78
18:K:349:ARG:NH1	18:K:375:ASN:HB3	1.98	0.78
22:O:29:PHE:HD2	22:O:61:LEU:HD11	1.49	0.78
22:O:46:THR:O	22:O:50:ASP:N	2.16	0.78
23:P:422:LEU:HB3	23:P:426:ILE:HG13	1.64	0.78
26:S:430:GLY:C	26:S:432:ILE:H	1.90	0.78
29:V:37:MET:SD	29:V:68:VAL:HG22	2.23	0.78
30:W:16:SER:H	30:W:115:CYS:HB3	1.48	0.78
33:Z:223:LEU:O	33:Z:227:ILE:N	2.13	0.78
33:Z:509:LEU:O	33:Z:513:ALA:N	2.16	0.78
9:b:142:PHE:HD2	5:j:80:ARG:HD2	1.47	0.78
10:c:28:SER:HA	10:c:31:HIS:CD2	2.18	0.78
10:c:50:ARG:N	10:c:210:ARG:O	2.17	0.78
11:d:34:VAL:HA	11:d:163:THR:HA	1.63	0.78
3:h:23:MET:HE2	3:h:174:ILE:HG12	1.64	0.78
4:i:39:ASN:ND2	4:i:208:GLU:OE2	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:148:ARG:NH1	7:l:257:GLU:O	2.15	0.78
3:3:59:LYS:HD3	3:3:121:TYR:HD2	1.48	0.78
13:F:13:PHE:CE2	14:G:131:PRO:CD	2.52	0.78
13:F:43:HIS:HB3	13:F:215:ILE:HD11	1.64	0.78
22:O:166:ARG:HH12	22:O:170:SER:CB	1.96	0.78
26:S:461:PHE:O	26:S:465:ILE:HG13	1.84	0.78
8:a:98:LYS:HZ3	3:h:88:GLN:HA	1.48	0.78
11:d:174:PHE:O	11:d:178:ASN:ND2	2.17	0.78
11:d:174:PHE:C	11:d:178:ASN:HD22	1.92	0.78
3:h:59:LYS:HD3	3:h:121:TYR:HD2	1.48	0.78
7:l:179:TYR:HA	7:l:185:PRO:HA	1.66	0.78
6:6:41:HIS:CD2	6:6:109:LYS:HD3	2.18	0.78
6:6:67:TYR:HA	6:6:70:ARG:NH1	1.99	0.78
11:D:169:LYS:HZ2	11:D:172:ARG:HD2	1.47	0.78
12:E:28:LEU:HA	12:E:31:ILE:HD12	1.65	0.78
15:H:184:GLU:N	15:H:185:LEU:HA	1.97	0.78
18:K:96:ILE:HD12	19:L:126:ARG:HB3	1.66	0.78
20:M:78:LEU:HG	20:M:150:LYS:HE2	1.65	0.78
21:N:463:TYR:HA	21:N:485:MET:HG2	1.66	0.78
21:N:499:HIS:O	21:N:503:THR:N	2.14	0.78
23:P:140:THR:HG23	23:P:159:ILE:HG13	1.65	0.78
23:P:144:VAL:HG13	23:P:156:ALA:HB1	1.66	0.78
24:Q:247:HIS:ND1	24:Q:289:GLU:HG2	1.97	0.78
29:V:154:ASP:OD1	29:V:155:ALA:N	2.17	0.78
11:d:118:GLN:O	11:d:121:THR:OG1	2.00	0.78
6:k:67:TYR:HA	6:k:70:ARG:NH1	1.99	0.78
4:4:138:HIS:HB3	4:4:140:PHE:HE2	1.48	0.78
8:A:46:ARG:NH2	8:A:167:LYS:HA	1.99	0.78
11:D:16:HIS:HB3	11:D:21:GLU:OE2	1.84	0.78
11:D:151:GLU:OE2	11:D:155:ILE:HB	1.82	0.78
21:N:47:GLU:OE2	21:N:69:TYR:OH	2.00	0.78
23:P:238:ALA:HB2	23:P:267:PHE:HB2	1.64	0.78
23:P:245:TYR:CZ	23:P:261:LEU:HB2	2.19	0.78
26:S:1:MET:H2	26:S:4:THR:HG23	1.48	0.78
26:S:293:ILE:HG22	26:S:297:ILE:HD12	1.65	0.78
10:c:49:GLU:OE2	10:c:210:ARG:NH2	2.16	0.78
10:c:161:LYS:HE3	11:d:56:ASP:HA	1.66	0.78
10:c:218:LYS:HB2	10:c:225:VAL:HG22	1.66	0.78
12:e:28:LEU:HA	12:e:31:ILE:HD12	1.65	0.78
1:1:221:LEU:N	1:1:236:TYR:O	2.15	0.78
2:2:42:THR:CG2	2:2:74:ARG:CZ	2.62	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:211:LYS:O	12:E:216:ASN:ND2	2.16	0.78
16:I:106:ILE:HD11	17:J:85:LEU:HG	1.66	0.78
18:K:342:SER:OG	18:K:379:SER:CB	2.32	0.78
22:O:176:SER:O	22:O:180:LYS:N	2.14	0.78
23:P:40:LEU:O	23:P:44:LYS:NZ	2.17	0.78
23:P:309:MET:HA	23:P:370:ASP:OD2	1.84	0.78
24:Q:358:GLU:HA	24:Q:396:TRP:HA	1.66	0.78
25:R:347:THR:HA	25:R:389:GLU:OE2	1.83	0.78
26:S:30:GLN:O	26:S:34:LEU:N	2.14	0.78
26:S:351:ALA:HA	26:S:359:LYS:HZ2	1.44	0.78
30:W:186:ALA:HA	30:W:191:ILE:HD11	1.66	0.78
33:Z:557:GLU:HB2	33:Z:562:TRP:CD1	2.18	0.78
33:Z:557:GLU:HB2	33:Z:562:TRP:HD1	1.49	0.78
3:h:41:THR:N	3:h:44:TYR:O	2.11	0.78
6:k:49:GLU:N	6:k:99:GLN:O	2.13	0.78
5:5:43:ILE:HA	5:5:52:GLY:HA2	1.65	0.78
7:7:179:TYR:HA	7:7:185:PRO:HA	1.66	0.78
2:9:34:THR:N	2:9:141:ASN:HA	1.98	0.78
2:9:45:ILE:HA	2:9:176:ALA:HA	1.64	0.78
12:E:201:LEU:HG	12:E:243:LEU:HD13	1.65	0.78
14:G:46:VAL:HG13	14:G:146:ALA:HB1	1.66	0.78
14:G:52:LYS:HB2	14:G:213:GLU:HB3	1.66	0.78
18:K:51:LEU:O	18:K:55:GLU:N	2.17	0.78
22:O:342:ASP:HB3	22:O:347:LEU:HB2	1.66	0.78
23:P:218:LEU:HD21	23:P:248:ASP:OD2	1.84	0.78
24:Q:190:ASN:HB3	24:Q:193:LYS:HD2	1.65	0.78
25:R:310:GLU:O	25:R:314:ASN:ND2	2.16	0.78
8:a:55:SER:HB3	8:a:224:GLU:HB3	1.66	0.78
9:b:90:ARG:HH11	4:i:97:LEU:HB3	1.47	0.78
9:b:102:GLY:HA3	5:j:89:GLN:HE21	1.47	0.78
14:g:52:LYS:HB2	14:g:213:GLU:HB3	1.66	0.78
5:5:115:LYS:NZ	9:B:141:GLU:OE2	2.16	0.78
2:9:232:ILE:HB	2:9:240:THR:HB	1.65	0.78
14:G:175:GLU:HA	14:G:178:LYS:HD2	1.66	0.78
19:L:110:LYS:HE2	19:L:118:ILE:HD12	1.66	0.78
22:O:310:PHE:N	22:O:346:GLU:O	2.17	0.78
23:P:56:LYS:HD3	23:P:92:SER:HA	1.64	0.78
23:P:204:LEU:HD11	23:P:217:LYS:HD3	1.66	0.78
23:P:414:GLU:O	23:P:418:ASN:N	2.13	0.78
24:Q:135:HIS:O	24:Q:139:ILE:N	2.14	0.78
24:Q:382:LEU:O	25:R:263:ARG:NH1	2.15	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:205:GLU:O	25:R:208:ASN:N	2.16	0.78
28:U:141:GLU:HA	28:U:152:LYS:CA	2.13	0.78
28:U:165:GLU:N	29:V:42:ARG:HH12	1.82	0.78
3:h:18:LEU:HA	3:h:39:THR:HG22	1.65	0.78
7:l:189:TYR:N	7:l:197:LEU:O	2.17	0.78
3:3:88:GLN:HA	8:A:98:LYS:NZ	1.99	0.77
3:3:176:HIS:HD2	3:h:159:LYS:NZ	1.81	0.77
4:4:46:ASP:OD1	4:4:62:LYS:NZ	2.16	0.77
5:5:18:LYS:HD3	5:5:157:ASN:HB3	1.67	0.77
8:A:102:ALA:O	8:A:106:TYR:N	2.13	0.77
12:E:144:ILE:HB	12:E:156:PHE:HB2	1.64	0.77
16:I:196:GLU:OE1	16:I:346:ARG:NH2	2.17	0.77
17:J:54:LYS:O	17:J:58:ILE:N	2.15	0.77
21:N:95:SER:HB2	26:S:219:LYS:NZ	1.99	0.77
22:O:11:LEU:HD23	22:O:14:LEU:HD12	1.16	0.77
22:O:43:GLU:HA	22:O:47:LYS:HD3	1.64	0.77
22:O:155:LYS:HA	22:O:158:ASP:OD2	1.83	0.77
22:O:196:LEU:O	22:O:200:GLU:N	2.17	0.77
28:U:23:GLU:O	28:U:26:GLN:NE2	2.17	0.77
33:Z:497:PHE:HB3	33:Z:501:LYS:HA	1.66	0.77
8:a:70:SER:OG	8:a:224:GLU:OE2	2.00	0.77
12:e:144:ILE:HB	12:e:156:PHE:HB2	1.64	0.77
4:i:138:HIS:HB3	4:i:140:PHE:HE2	1.48	0.77
1:1:108:ALA:O	1:1:112:ILE:N	2.12	0.77
1:1:214:HIS:HD2	1:1:217:VAL:HG23	1.47	0.77
3:3:41:THR:N	3:3:44:TYR:O	2.11	0.77
5:5:59:ASP:OD2	5:5:104:PHE:N	2.15	0.77
1:8:21:PHE:CZ	2:9:137:ARG:HG3	2.19	0.77
1:8:214:HIS:CE1	4:i:53:PRO:HB2	2.19	0.77
2:9:110:ASP:CG	14:G:93:ARG:HH12	1.92	0.77
8:A:88:PRO:HB3	14:G:155:GLY:HA3	1.65	0.77
11:D:44:LEU:N	11:D:213:THR:O	2.14	0.77
14:G:121:GLN:O	14:G:124:THR:OG1	2.02	0.77
21:N:376:LYS:HA	21:N:411:ILE:HG12	1.65	0.77
22:O:149:LEU:O	22:O:153:LEU:N	2.14	0.77
22:O:243:VAL:HG12	22:O:248:TYR:HB3	1.64	0.77
24:Q:137:LEU:HA	24:Q:140:LYS:NZ	1.99	0.77
24:Q:408:THR:HG22	29:V:255:ILE:HD11	1.66	0.77
27:T:97:SER:O	27:T:98:GLU:HG3	1.84	0.77
11:d:16:HIS:HB3	11:d:21:GLU:OE2	1.84	0.77
5:j:29:LEU:N	5:j:37:SER:O	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:223:ILE:HB	1:8:234:GLU:HB2	1.65	0.77
11:D:174:PHE:O	11:D:178:ASN:ND2	2.16	0.77
12:E:240:ILE:HA	12:E:243:LEU:HD21	1.64	0.77
16:I:384:LYS:NZ	16:I:392:ILE:HG12	1.99	0.77
17:J:52:ASN:HD21	21:N:612:SER:HA	1.47	0.77
17:J:56:ARG:HB3	21:N:613:HIS:HA	1.65	0.77
21:N:420:THR:HG23	21:N:450:ILE:HA	1.65	0.77
22:O:167:ILE:HG23	22:O:168:THR:H	1.49	0.77
22:O:280:LEU:O	22:O:284:GLU:N	2.12	0.77
25:R:79:LEU:HD23	25:R:95:ASP:HA	1.66	0.77
26:S:131:THR:O	26:S:135:ASN:N	2.11	0.77
26:S:475:TYR:HD1	26:S:476:LEU:H	1.32	0.77
10:c:16:GLU:O	11:d:29:ARG:NH1	2.18	0.77
10:c:137:TYR:HB2	10:c:149:TYR:HB2	1.67	0.77
11:d:90:ARG:NH1	6:k:70:ARG:HA	1.99	0.77
1:1:134:ASP:OD1	1:1:138:LYS:N	2.16	0.77
8:A:30:TYR:CD1	14:G:17:PRO:HA	2.20	0.77
19:L:107:GLU:HG2	19:L:145:ARG:HA	1.67	0.77
19:L:278:ILE:N	19:L:322:LYS:O	2.14	0.77
19:L:387:ASN:OD1	19:L:390:ASP:N	2.12	0.77
20:M:200:PRO:HB3	20:M:215:PRO:HD2	1.67	0.77
21:N:308:ASN:HD22	21:N:873:ARG:HH12	1.32	0.77
25:R:223:ASN:O	25:R:226:GLU:N	2.17	0.77
26:S:378:GLN:O	26:S:382:ARG:NH1	2.17	0.77
26:S:436:ILE:HB	27:T:197:TYR:HE1	1.49	0.77
29:V:88:GLN:O	29:V:92:MET:N	2.11	0.77
8:a:37:GLN:HE22	14:g:20:ARG:HG2	1.48	0.77
5:5:29:LEU:N	5:5:37:SER:O	2.18	0.77
7:7:156:LYS:HE2	11:D:101:GLU:OE2	1.84	0.77
10:C:49:GLU:OE2	10:C:210:ARG:NH2	2.16	0.77
12:E:17:PRO:HA	13:F:24:TYR:CD1	2.19	0.77
15:H:214:CYS:HA	15:H:378:SER:HB2	1.65	0.77
15:H:327:ASN:O	15:H:331:ARG:N	2.15	0.77
19:L:77:ARG:NH1	20:M:16:ASP:HA	1.99	0.77
19:L:170:MET:HG2	19:L:266:MET:HG3	1.67	0.77
20:M:125:GLN:OE1	20:M:153:TYR:OH	2.00	0.77
22:O:72:LYS:HG3	22:O:73:ILE:HD12	1.65	0.77
23:P:133:GLU:HA	23:P:136:ARG:HG3	1.65	0.77
23:P:154:ASP:O	23:P:158:ASP:N	2.16	0.77
23:P:180:ILE:HG23	23:P:199:LEU:HB3	1.67	0.77
24:Q:267:LEU:HD12	24:Q:270:ILE:HB	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:50:VAL:HA	25:R:53:LYS:HB2	1.67	0.77
28:U:140:ILE:O	28:U:153:THR:N	2.16	0.77
33:Z:307:HIS:O	33:Z:311:ALA:N	2.16	0.77
11:d:176:GLU:HA	12:e:58:LEU:HD21	1.66	0.77
5:j:10:GLY:HA3	5:j:42:LYS:HE2	1.65	0.77
1:1:35:ALA:O	1:1:154:GLN:NE2	2.18	0.77
3:3:74:ILE:HA	3:3:77:ILE:HD12	1.67	0.77
6:6:5:LEU:HD21	6:6:136:SER:HB3	1.65	0.77
12:E:146:GLY:HA2	12:E:222:ILE:HD13	1.67	0.77
13:F:33:SER:HB3	13:F:62:LYS:HZ3	1.48	0.77
16:I:108:THR:HA	16:I:146:SER:HA	1.65	0.77
21:N:57:ASP:O	21:N:60:MET:N	2.18	0.77
25:R:359:VAL:HA	32:Y:82:ASP:HB3	1.66	0.77
31:X:113:GLU:OE1	31:X:115:SER:OG	2.03	0.77
3:3:12:LYS:HE2	4:4:120:GLN:HB3	1.66	0.77
3:3:194:MET:O	3:3:205:LEU:N	2.18	0.77
5:5:62:THR:HA	6:6:85:ARG:HH22	1.49	0.77
6:6:104:ILE:HB	6:6:117:TYR:HB2	1.67	0.77
7:7:189:TYR:N	7:7:197:LEU:O	2.17	0.77
8:A:236:LEU:HB3	8:A:240:ASN:HB2	1.65	0.77
14:G:126:TYR:O	14:G:129:VAL:CG2	2.33	0.77
15:H:308:PHE:O	15:H:354:ALA:N	2.17	0.77
19:L:379:ALA:HB2	19:L:415:LEU:HD21	1.66	0.77
22:O:242:ILE:HG13	22:O:243:VAL:HG13	1.66	0.77
23:P:17:PHE:O	23:P:21:ASP:N	2.17	0.77
23:P:147:LYS:HB3	23:P:152:LYS:HB2	1.64	0.77
23:P:392:LYS:NZ	24:Q:356:CYS:SG	2.58	0.77
24:Q:245:SER:O	24:Q:249:LEU:N	2.14	0.77
26:S:273:PHE:HA	26:S:276:LEU:HB3	1.66	0.77
30:W:164:PRO:O	30:W:168:THR:OG1	2.00	0.77
12:e:146:GLY:HA2	12:e:222:ILE:HD13	1.67	0.77
5:j:28:ARG:HB2	5:j:183:TRP:HB2	1.66	0.77
6:k:104:ILE:HB	6:k:117:TYR:HB2	1.67	0.77
5:5:18:LYS:N	5:5:158:LEU:O	2.17	0.77
6:6:82:SER:HB3	10:C:103:ASN:HD22	1.49	0.77
1:8:209:SER:OG	4:i:225:ARG:NH2	2.17	0.77
17:J:26:LYS:HZ2	21:N:107:GLU:H	1.32	0.77
19:L:303:ARG:O	19:L:307:GLU:N	2.18	0.77
24:Q:281:ILE:O	24:Q:287:THR:OG1	2.01	0.77
26:S:287:SER:O	26:S:291:GLU:N	2.14	0.77
7:7:78:THR:N	7:7:204:VAL:O	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:35:ALA:O	1:8:154:GLN:NE2	2.18	0.77
13:F:13:PHE:CZ	14:G:131:PRO:HD2	2.18	0.77
15:H:234:ARG:O	15:H:238:LEU:N	2.16	0.77
16:I:109:LEU:HB2	16:I:145:CYS:H	1.49	0.77
16:I:336:PRO:O	16:I:340:ARG:N	2.11	0.77
18:K:405:SER:O	18:K:409:GLU:N	2.13	0.77
20:M:392:LYS:HA	20:M:395:THR:HB	1.65	0.77
20:M:401:ILE:O	20:M:405:ASN:N	2.17	0.77
21:N:642:ASP:O	21:N:645:THR:OG1	2.03	0.77
21:N:740:TRP:HE3	29:V:24:LYS:HZ3	0.82	0.77
21:N:770:LYS:HD3	21:N:870:ASN:HD21	1.49	0.77
24:Q:80:HIS:O	24:Q:84:TYR:N	2.15	0.77
33:Z:369:PHE:CD2	33:Z:390:LEU:HD21	2.20	0.77
14:g:46:VAL:HG13	14:g:146:ALA:HB1	1.66	0.77
4:i:236:ARG:NH2	5:j:162:ASP:H	1.83	0.77
6:k:13:VAL:HB	6:k:184:VAL:HB	1.67	0.77
2:2:232:ILE:HB	2:2:240:THR:HB	1.65	0.77
1:8:36:GLY:H	1:8:40:ALA:HA	1.49	0.77
1:8:221:LEU:N	1:8:236:TYR:O	2.15	0.77
10:C:137:TYR:HB2	10:C:149:TYR:HB2	1.67	0.77
15:H:395:SER:O	16:I:319:ARG:NH2	2.15	0.77
16:I:248:VAL:HG13	16:I:283:GLU:HB3	1.67	0.77
22:O:220:SER:O	22:O:224:GLY:N	2.17	0.77
24:Q:267:LEU:O	24:Q:271:MET:N	2.15	0.77
28:U:211:LEU:O	28:U:215:ILE:N	2.18	0.77
30:W:2:VAL:HG13	30:W:4:GLU:HG2	1.67	0.77
30:W:158:ILE:O	30:W:169:SER:OG	2.03	0.77
33:Z:285:ALA:HB2	33:Z:297:VAL:HG21	1.66	0.77
8:a:156:LYS:NZ	8:a:175:GLN:HE22	1.82	0.77
11:d:94:GLN:NE2	6:k:62:ALA:O	2.17	0.77
12:e:186:GLU:HG3	12:e:203:ILE:HD11	1.66	0.77
3:h:194:MET:O	3:h:205:LEU:N	2.18	0.77
1:1:36:GLY:H	1:1:40:ALA:HA	1.49	0.76
7:7:93:SER:OG	7:7:249:SER:N	2.18	0.76
10:C:15:PRO:HA	11:D:22:TYR:CD1	2.19	0.76
13:F:166:GLN:HA	13:F:169:LYS:HB3	1.67	0.76
14:G:95:GLU:CD	14:G:115:ARG:HH11	1.94	0.76
15:H:247:LEU:HD22	15:H:361:LEU:HD11	1.67	0.76
17:J:219:VAL:HG22	17:J:268:VAL:HG23	1.67	0.76
18:K:159:SER:OG	18:K:241:GLU:O	2.03	0.76
19:L:82:ARG:HA	19:L:85:GLU:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:86:LYS:HE3	21:N:132:LYS:HE2	1.67	0.76
22:O:15:ARG:CZ	30:W:144:PHE:CE2	2.68	0.76
22:O:100:ASP:OD1	22:O:103:LYS:NZ	2.17	0.76
23:P:104:LEU:O	23:P:107:SER:HB2	1.86	0.76
23:P:365:LEU:O	23:P:369:LEU:N	2.15	0.76
25:R:290:SER:HA	25:R:293:THR:HB	1.65	0.76
25:R:309:LEU:HA	25:R:312:TYR:HB3	1.66	0.76
26:S:239:ARG:O	26:S:243:ASN:N	2.18	0.76
29:V:246:LYS:HE2	29:V:250:GLN:HE21	1.50	0.76
8:a:46:ARG:NH2	8:a:167:LYS:HA	1.99	0.76
3:h:68:ALA:O	3:h:72:GLN:N	2.15	0.76
4:i:236:ARG:HH21	5:j:162:ASP:H	1.32	0.76
7:l:137:GLN:O	7:l:141:HIS:N	2.12	0.76
3:3:138:VAL:H	2:9:94:GLN:NE2	1.83	0.76
3:3:159:LYS:NZ	3:h:215:LEU:OXT	2.18	0.76
6:6:64:ILE:O	6:6:68:SER:N	2.17	0.76
6:6:86:GLN:HG2	6:6:90:LYS:HE3	1.68	0.76
2:9:135:GLN:O	2:9:139:LYS:N	2.17	0.76
8:A:91:ARG:NH1	14:G:157:TYR:H	1.80	0.76
11:D:26:ALA:O	11:D:30:GLY:N	2.18	0.76
11:D:160:SER:N	12:E:58:LEU:O	2.17	0.76
19:L:82:ARG:HB3	19:L:86:LYS:NZ	2.01	0.76
21:N:308:ASN:HB3	21:N:711:ARG:HH11	1.50	0.76
22:O:380:LEU:HD13	27:T:258:ASN:HD22	1.47	0.76
23:P:119:ILE:HG22	23:P:120:GLU:HG3	1.68	0.76
23:P:258:LYS:NZ	23:P:290:LEU:HD11	1.99	0.76
24:Q:362:ILE:O	24:Q:366:ILE:N	2.17	0.76
25:R:225:LYS:HD2	25:R:260:THR:HB	1.67	0.76
28:U:8:VAL:HG22	28:U:46:ILE:HB	1.66	0.76
33:Z:488:ALA:O	33:Z:492:GLY:N	2.19	0.76
10:c:45:VAL:HG22	10:c:186:VAL:HG13	1.67	0.76
2:2:153:GLN:N	2:2:157:ASP:O	2.16	0.76
3:3:68:ALA:O	3:3:72:GLN:N	2.15	0.76
11:D:189:GLU:O	11:D:193:LYS:N	2.13	0.76
16:I:236:VAL:HA	16:I:239:GLN:HB3	1.67	0.76
16:I:266:GLN:HA	16:I:269:LYS:HD2	1.65	0.76
21:N:649:VAL:HB	21:N:652:VAL:HG23	1.67	0.76
21:N:769:PRO:HB2	21:N:914:VAL:HG22	1.68	0.76
22:O:301:PHE:HB2	22:O:305:ILE:HG12	1.67	0.76
25:R:58:GLU:OE2	25:R:109:LYS:NZ	2.18	0.76
31:X:30:GLN:HG2	31:X:100:TRP:CZ3	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:20:TYR:O	10:c:24:TYR:N	2.16	0.76
5:j:18:LYS:N	5:j:158:LEU:O	2.17	0.76
5:j:43:ILE:HA	5:j:52:GLY:HA2	1.65	0.76
6:k:64:ILE:O	6:k:68:SER:N	2.17	0.76
6:k:86:GLN:HG2	6:k:90:LYS:HE3	1.67	0.76
1:1:64:ASP:HA	1:1:70:VAL:HA	1.67	0.76
3:3:184:TRP:HZ2	3:h:158:ASP:HB2	1.49	0.76
4:4:170:HIS:HB2	4:4:183:LEU:HD13	1.68	0.76
5:5:205:ASP:O	7:l:94:ARG:NH2	2.17	0.76
13:F:90:GLN:O	13:F:94:TYR:N	2.12	0.76
16:I:403:ALA:HB1	16:I:408:ARG:HG3	1.67	0.76
19:L:111:GLU:OE2	19:L:114:GLU:HA	1.85	0.76
19:L:290:ARG:NH1	19:L:302:GLN:HB2	2.00	0.76
20:M:216:LYS:HD2	20:M:315:PHE:HB2	1.67	0.76
21:N:360:GLN:O	21:N:364:LYS:N	2.16	0.76
21:N:775:CYS:H	21:N:882:ILE:HG23	1.50	0.76
23:P:10:SER:O	23:P:14:LYS:N	2.18	0.76
25:R:64:LYS:O	25:R:81:HIS:NE2	2.18	0.76
27:T:106:ILE:O	27:T:110:LEU:N	2.14	0.76
31:X:117:LYS:HE3	31:X:121:ILE:HG12	1.66	0.76
11:d:37:LYS:HA	11:d:42:VAL:HA	1.68	0.76
12:e:154:GLN:HB3	12:e:156:PHE:HE2	1.51	0.76
3:h:122:ASP:OD2	3:h:125:ASN:N	2.15	0.76
4:i:170:HIS:HB2	4:i:183:LEU:HD13	1.67	0.76
2:2:254:PHE:HA	2:2:256:LYS:HZ3	1.50	0.76
5:5:56:LEU:N	5:5:104:PHE:O	2.19	0.76
2:9:153:GLN:N	2:9:157:ASP:O	2.16	0.76
10:C:45:VAL:HG22	10:C:186:VAL:HG13	1.67	0.76
10:C:218:LYS:HB2	10:C:225:VAL:HG22	1.66	0.76
16:I:358:LYS:HD3	16:I:384:LYS:HD2	1.66	0.76
17:J:143:PRO:HG2	17:J:210:PHE:HB3	1.68	0.76
21:N:306:ASN:O	21:N:712:ASN:ND2	2.18	0.76
21:N:759:ILE:HG22	21:N:903:VAL:HG11	1.67	0.76
26:S:273:PHE:HB3	26:S:292:TYR:HB3	1.67	0.76
27:T:131:LYS:O	27:T:135:ASN:ND2	2.18	0.76
28:U:104:LEU:HD13	28:U:152:LYS:NZ	2.00	0.76
31:X:34:GLU:HB2	31:X:49:GLU:HB3	1.67	0.76
9:b:185:LEU:O	9:b:189:ILE:N	2.14	0.76
13:f:93:ASN:O	13:f:97:LEU:N	2.16	0.76
14:g:175:GLU:HA	14:g:178:LYS:HD2	1.66	0.76
1:1:139:GLY:O	1:1:152:ARG:NH2	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:219:ASP:HA	1:1:240:ARG:HG2	1.67	0.76
5:5:177:ARG:HD3	7:l:101:VAL:HB	1.64	0.76
8:A:55:SER:HB3	8:A:224:GLU:HB3	1.66	0.76
8:A:156:LYS:NZ	8:A:175:GLN:HE22	1.82	0.76
12:E:186:GLU:HG3	12:E:203:ILE:HD11	1.66	0.76
16:I:137:ASP:HB3	16:I:140:LEU:HG	1.66	0.76
17:J:353:CYS:SG	17:J:393:ASN:ND2	2.59	0.76
20:M:70:LYS:HB3	29:V:75:GLY:H	1.50	0.76
20:M:220:MET:HB2	20:M:326:ALA:HA	1.64	0.76
23:P:426:ILE:O	29:V:234:GLU:OE2	2.04	0.76
25:R:300:ASP:OD2	25:R:303:SER:OG	2.04	0.76
26:S:385:SER:C	26:S:389:LYS:HZ3	1.93	0.76
28:U:271:ASP:HA	28:U:274:MET:HE2	1.68	0.76
33:Z:139:LEU:HA	33:Z:203:LEU:HB2	1.67	0.76
11:d:94:GLN:NE2	6:k:65:GLN:HB2	2.00	0.76
13:f:166:GLN:HA	13:f:169:LYS:HB3	1.67	0.76
5:5:28:ARG:HB2	5:5:183:TRP:HB2	1.66	0.76
7:7:110:ILE:O	7:7:118:GLY:N	2.18	0.76
2:9:42:THR:CG2	2:9:74:ARG:CZ	2.63	0.76
2:9:232:ILE:N	2:9:240:THR:O	2.16	0.76
10:C:161:LYS:HE3	11:D:56:ASP:HA	1.66	0.76
11:D:37:LYS:HA	11:D:42:VAL:HA	1.68	0.76
12:E:205:LYS:HZ1	12:E:211:LYS:HE2	1.49	0.76
21:N:189:LEU:O	21:N:193:ALA:N	2.14	0.76
24:Q:8:LEU:HG	24:Q:12:ARG:HH12	1.51	0.76
24:Q:423:VAL:HG13	25:R:417:TYR:OH	1.86	0.76
25:R:288:SER:HA	25:R:292:LEU:HG	1.65	0.76
30:W:8:LEU:HD23	30:W:51:LEU:HD13	1.66	0.76
33:Z:775:MET:HE3	33:Z:779:ALA:HB2	1.68	0.76
11:d:18:PHE:HB3	11:d:22:TYR:CZ	2.20	0.76
1:1:180:GLU:OE2	1:1:189:LYS:HA	1.84	0.76
2:2:135:GLN:O	2:2:139:LYS:N	2.17	0.76
4:4:75:ALA:N	4:4:126:TYR:O	2.19	0.76
1:8:64:ASP:HA	1:8:70:VAL:HA	1.67	0.76
14:G:179:LEU:HA	14:G:182:HIS:HB2	1.68	0.76
23:P:245:TYR:C	23:P:257:TRP:HE1	1.94	0.76
23:P:422:LEU:HB3	23:P:426:ILE:HD11	1.66	0.76
24:Q:277:ASP:O	24:Q:281:ILE:N	2.13	0.76
24:Q:315:ASN:HA	24:Q:318:LEU:HB3	1.68	0.76
25:R:191:LEU:HD11	25:R:210:TYR:HA	1.68	0.76
33:Z:516:THR:HG22	33:Z:556:ILE:HG22	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:220:SER:OG	14:g:222:SER:OG	2.04	0.76
4:i:178:GLU:HA	4:i:181:ILE:HB	1.68	0.76
4:4:117:PHE:O	4:4:120:GLN:NE2	2.18	0.76
8:A:182:LEU:O	8:A:186:PHE:N	2.16	0.76
9:B:25:LEU:HA	9:B:28:VAL:HB	1.67	0.76
15:H:445:LYS:O	15:H:449:LYS:N	2.16	0.76
17:J:164:ILE:HA	17:J:289:LYS:HE3	1.67	0.76
18:K:381:ALA:O	18:K:385:ALA:N	2.18	0.76
20:M:74:GLN:HE21	20:M:77:TYR:HA	1.50	0.76
22:O:311:GLU:O	22:O:315:LYS:N	2.17	0.76
23:P:254:GLU:HA	23:P:257:TRP:HE3	1.48	0.76
27:T:59:LYS:HE3	27:T:94:HIS:HE1	1.51	0.76
27:T:266:TYR:HA	27:T:269:SER:HB2	1.67	0.76
29:V:37:MET:HG2	29:V:108:TYR:CE2	2.21	0.76
29:V:249:GLU:O	29:V:253:LYS:N	2.17	0.76
33:Z:209:PRO:HA	33:Z:212:LEU:HB3	1.66	0.76
33:Z:369:PHE:CG	33:Z:390:LEU:HD21	2.21	0.76
8:a:236:LEU:HB3	8:a:240:ASN:HB2	1.65	0.76
12:e:151:ASP:HB3	12:e:166:ARG:NH1	1.99	0.76
3:h:63:CYS:HB2	3:h:117:ILE:HB	1.68	0.76
1:8:219:ASP:HA	1:8:240:ARG:HG2	1.67	0.76
2:9:254:PHE:HA	2:9:256:LYS:HZ3	1.49	0.76
8:A:41:ASN:HA	8:A:172:GLY:HA3	1.67	0.76
17:J:26:LYS:HZ2	21:N:107:GLU:N	1.83	0.76
17:J:137:MET:HA	17:J:213:VAL:HA	1.66	0.76
17:J:142:VAL:H	17:J:209:LYS:HA	1.50	0.76
17:J:165:GLU:HG3	17:J:202:VAL:HG13	1.67	0.76
18:K:365:GLU:HG2	18:K:404:GLN:HB3	1.68	0.76
21:N:174:LEU:HD11	21:N:213:PHE:HD1	1.49	0.76
22:O:296:LEU:HD23	22:O:300:VAL:HG21	1.68	0.76
22:O:343:GLN:HG2	23:P:364:ARG:HG2	1.68	0.76
23:P:429:ILE:HD12	28:U:229:LEU:HA	1.66	0.76
25:R:61:PRO:HD3	25:R:102:LEU:HD11	1.68	0.76
26:S:136:CYS:O	26:S:140:LEU:N	2.19	0.76
26:S:402:ILE:HG21	26:S:406:ASP:OD2	1.86	0.76
33:Z:158:ALA:O	33:Z:162:GLY:N	2.19	0.76
13:f:33:SER:HB3	13:f:62:LYS:HZ3	1.50	0.76
5:j:56:LEU:N	5:j:104:PHE:O	2.19	0.76
1:1:37:GLU:O	1:1:138:LYS:HA	1.85	0.75
1:8:139:GLY:O	1:8:152:ARG:NH2	2.18	0.75
15:H:167:ASP:HB3	15:H:174:VAL:HG11	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:217:GLN:O	15:H:221:LEU:N	2.18	0.75
15:H:264:ALA:HB2	15:H:305:ILE:HD12	1.66	0.75
19:L:171:THR:O	19:L:245:PHE:N	2.19	0.75
19:L:353:ASN:O	19:L:357:ARG:N	2.13	0.75
21:N:921:ARG:O	21:N:925:ASP:N	2.18	0.75
22:O:196:LEU:HD23	22:O:233:LEU:HD11	1.67	0.75
24:Q:163:ARG:HA	24:Q:166:LYS:HD2	1.68	0.75
26:S:15:VAL:HG13	26:S:18:LEU:HD12	1.69	0.75
26:S:423:VAL:HG21	26:S:436:ILE:HD11	1.68	0.75
26:S:435:LYS:O	26:S:444:GLU:N	2.15	0.75
33:Z:348:LEU:HD13	33:Z:922:PRO:HD2	1.66	0.75
5:5:45:HIS:HA	5:5:50:PHE:HA	1.68	0.75
1:8:29:GLY:C	1:8:74:ASN:HD21	1.94	0.75
11:D:120:TYR:HA	11:D:123:SER:HB2	1.68	0.75
16:I:220:ILE:HG13	16:I:344:ILE:HG21	1.68	0.75
21:N:683:LEU:O	21:N:687:THR:N	2.17	0.75
21:N:877:GLN:O	21:N:880:ARG:N	2.19	0.75
23:P:112:LEU:O	23:P:116:ILE:N	2.18	0.75
23:P:184:MET:HG2	23:P:196:ALA:HA	1.67	0.75
24:Q:339:TYR:HA	24:Q:342:LEU:HD12	1.66	0.75
25:R:341:LEU:O	25:R:344:SER:OG	2.04	0.75
26:S:290:ASN:O	26:S:294:ILE:N	2.15	0.75
29:V:232:GLU:HA	29:V:235:GLU:HB3	1.68	0.75
32:Y:76:GLU:HA	32:Y:79:ALA:HB3	1.68	0.75
10:c:43:GLY:HA2	10:c:146:TYR:CZ	2.21	0.75
10:c:51:LYS:HG2	10:c:52:VAL:HG23	1.69	0.75
10:c:240:VAL:HA	10:c:245:THR:HA	1.68	0.75
6:6:49:GLU:N	6:6:99:GLN:O	2.13	0.75
1:8:180:GLU:OE2	1:8:189:LYS:HA	1.84	0.75
1:8:201:LYS:HG2	4:i:229:GLN:HG3	1.68	0.75
1:8:212:GLU:HB3	4:i:58:LYS:HZ3	1.51	0.75
2:9:73:GLU:OE2	2:9:75:LEU:HB2	1.87	0.75
9:B:184:GLU:HB3	9:B:187:ASP:OD2	1.86	0.75
11:D:18:PHE:HB3	11:D:22:TYR:CZ	2.20	0.75
11:D:35:GLY:N	11:D:162:GLN:O	2.16	0.75
17:J:32:LEU:HA	17:J:35:ARG:HB3	1.67	0.75
18:K:122:ILE:HB	18:K:146:LEU:HD23	1.67	0.75
19:L:175:GLN:HB3	19:L:237:ALA:HA	1.66	0.75
21:N:582:ASP:HA	21:N:585:ARG:HB3	1.67	0.75
23:P:144:VAL:O	23:P:148:LYS:N	2.14	0.75
24:Q:71:LYS:HE3	24:Q:113:ASP:OD2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:383:ASP:OD1	25:R:263:ARG:NH2	2.18	0.75
29:V:51:GLY:HA2	29:V:71:MET:HG2	1.68	0.75
9:b:25:LEU:HA	9:b:28:VAL:HB	1.67	0.75
9:b:242:GLU:HB3	9:b:246:ARG:HH12	1.48	0.75
5:j:45:HIS:HA	5:j:50:PHE:HA	1.69	0.75
7:l:93:SER:OG	7:l:249:SER:N	2.18	0.75
5:5:203:ARG:NH2	7:l:248:GLY:O	2.19	0.75
7:7:191:ASP:OD2	7:7:193:ASP:HB2	1.86	0.75
1:8:30:THR:HA	1:8:159:GLY:HA3	1.69	0.75
2:9:242:LYS:HB3	2:9:245:LEU:HD11	1.68	0.75
12:E:213:ASP:OD1	12:E:216:ASN:N	2.19	0.75
15:H:163:VAL:HG12	15:H:164:SER:H	1.51	0.75
15:H:330:GLN:O	15:H:334:LEU:N	2.14	0.75
18:K:208:GLY:N	18:K:333:ARG:O	2.19	0.75
18:K:394:ALA:HB1	18:K:399:ARG:HB2	1.68	0.75
19:L:150:ILE:HG23	19:L:151:THR:HG23	1.67	0.75
21:N:50:TYR:HA	21:N:58:ARG:HB2	1.69	0.75
21:N:781:ALA:H	21:N:878:GLN:HE22	1.33	0.75
23:P:48:GLN:HG2	23:P:86:HIS:HB2	1.68	0.75
23:P:350:LEU:O	23:P:354:SER:N	2.19	0.75
24:Q:267:LEU:HA	24:Q:270:ILE:HB	1.69	0.75
24:Q:375:GLY:O	24:Q:379:GLN:N	2.18	0.75
25:R:205:GLU:HG3	25:R:208:ASN:HD22	1.52	0.75
26:S:338:MET:HA	26:S:339:GLN:C	2.10	0.75
26:S:437:ASN:HB3	26:S:439:GLU:HG2	1.68	0.75
27:T:39:LEU:HD22	27:T:55:LEU:HB2	1.69	0.75
27:T:261:GLU:O	27:T:265:ASP:N	2.12	0.75
28:U:205:LYS:O	28:U:209:GLU:N	2.14	0.75
29:V:108:TYR:HA	29:V:139:VAL:HB	1.68	0.75
33:Z:785:VAL:HG21	33:Z:864:MET:HB3	1.69	0.75
8:a:41:ASN:HA	8:a:172:GLY:HA3	1.67	0.75
8:a:219:SER:N	8:a:222:ASP:OD2	2.14	0.75
11:d:226:SER:O	11:d:230:ASN:N	2.19	0.75
12:e:93:ARG:NH1	7:l:143:LEU:O	2.20	0.75
3:3:63:CYS:HB2	3:3:117:ILE:HB	1.68	0.75
4:4:178:GLU:HA	4:4:181:ILE:HB	1.68	0.75
11:D:216:LYS:N	11:D:220:ASP:O	2.18	0.75
15:H:428:MET:HE2	16:I:216:PRO:HG2	1.68	0.75
16:I:279:VAL:HB	16:I:324:VAL:HA	1.69	0.75
17:J:200:ARG:O	17:J:204:HIS:N	2.16	0.75
18:K:241:GLU:O	19:L:256:ILE:HG12	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:363:ALA:HA	21:N:366:THR:HB	1.69	0.75
22:O:58:ARG:HG2	22:O:61:LEU:HD12	1.67	0.75
22:O:99:LEU:HG	22:O:103:LYS:HG2	1.69	0.75
23:P:409:SER:HA	28:U:268:LYS:NZ	2.00	0.75
14:g:95:GLU:CD	14:g:115:ARG:HH11	1.94	0.75
7:l:110:ILE:O	7:l:118:GLY:N	2.18	0.75
7:l:126:ASP:O	7:l:130:TRP:CB	2.31	0.75
7:l:191:ASP:OD2	7:l:193:ASP:HB2	1.86	0.75
2:2:232:ILE:N	2:2:240:THR:O	2.16	0.75
6:6:13:VAL:HB	6:6:184:VAL:HB	1.67	0.75
18:K:235:ILE:O	18:K:270:PHE:N	2.19	0.75
24:Q:24:GLU:O	24:Q:28:LEU:N	2.19	0.75
24:Q:27:TYR:HA	24:Q:30:LEU:HG	1.68	0.75
24:Q:253:ASN:HD21	24:Q:258:ALA:N	1.85	0.75
25:R:294:ILE:O	25:R:298:ALA:N	2.18	0.75
26:S:436:ILE:HB	27:T:197:TYR:CE1	2.21	0.75
4:i:117:PHE:O	4:i:120:GLN:NE2	2.18	0.75
5:j:18:LYS:HD3	5:j:157:ASN:HB3	1.67	0.75
7:l:77:THR:HA	7:l:205:GLY:HA3	1.68	0.75
11:D:48:ARG:N	11:D:209:ASN:O	2.18	0.75
15:H:149:LEU:N	15:H:177:ASP:OD2	2.20	0.75
16:I:253:ILE:HD11	16:I:255:LYS:HE2	1.67	0.75
22:O:238:ILE:O	22:O:242:ILE:HG12	1.87	0.75
23:P:238:ALA:HB1	23:P:264:ILE:HG23	1.68	0.75
25:R:349:SER:HA	25:R:387:ILE:HA	1.67	0.75
26:S:472:HIS:CE1	28:U:283:ARG:HH12	2.05	0.75
28:U:124:ASP:N	28:U:133:PRO:O	2.16	0.75
14:g:102:LEU:O	3:h:99:SER:OG	2.05	0.75
1:1:31:ILE:N	1:1:158:GLY:O	2.16	0.75
2:2:43:SER:O	2:2:74:ARG:NH2	2.19	0.75
10:C:51:LYS:HG2	10:C:52:VAL:HG23	1.69	0.75
15:H:406:LEU:HA	15:H:409:ARG:HH11	1.52	0.75
17:J:160:ILE:HA	17:J:163:VAL:HG12	1.69	0.75
20:M:397:GLU:HA	20:M:400:MET:HE3	1.67	0.75
21:N:777:ALA:HB2	21:N:881:TYR:HB2	1.68	0.75
22:O:147:ARG:HA	22:O:150:LEU:HB3	1.68	0.75
23:P:57:GLU:HA	23:P:60:ALA:HB3	1.69	0.75
24:Q:413:LEU:O	24:Q:417:GLY:N	2.16	0.75
25:R:354:ALA:HB1	25:R:361:VAL:HA	1.68	0.75
26:S:338:MET:HG2	26:S:341:SER:C	2.12	0.75
28:U:64:ASP:OD1	28:U:105:LYS:NZ	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:177:GLU:N	8:a:177:GLU:OE1	2.19	0.75
9:b:33:THR:OG1	9:b:167:GLY:N	2.15	0.75
9:b:160:LYS:HD2	10:c:56:LEU:HA	1.67	0.75
11:d:73:LEU:HD12	11:d:135:ILE:HG12	1.69	0.75
11:d:216:LYS:N	11:d:220:ASP:O	2.18	0.75
12:e:205:LYS:HZ1	12:e:211:LYS:HE2	1.52	0.75
13:f:148:GLN:O	13:f:151:GLY:N	2.20	0.75
4:i:243:LYS:O	5:j:199:TYR:N	2.16	0.75
6:k:139:TYR:HD2	6:k:168:LEU:HD23	1.52	0.75
1:1:21:PHE:HZ	2:2:137:ARG:HG3	1.50	0.75
8:A:26:TYR:O	8:A:30:TYR:N	2.20	0.75
9:B:29:LYS:NZ	9:B:165:GLY:O	2.15	0.75
10:C:117:ASP:OD1	11:D:83:ARG:NE	2.20	0.75
11:D:73:LEU:HD12	11:D:135:ILE:HG12	1.69	0.75
12:E:154:GLN:HB3	12:E:156:PHE:HE2	1.51	0.75
15:H:262:ALA:O	15:H:266:ARG:N	2.13	0.75
16:I:250:SER:O	16:I:253:ILE:CG2	2.32	0.75
19:L:216:LYS:N	19:L:344:ASP:OD2	2.17	0.75
19:L:411:ASN:OD1	19:L:414:ASP:N	2.15	0.75
21:N:141:ILE:O	21:N:145:LEU:N	2.18	0.75
21:N:512:ASN:HA	21:N:515:ARG:HH11	1.52	0.75
26:S:280:ASN:HB2	26:S:289:ALA:HB2	1.69	0.75
26:S:330:LEU:HD13	26:S:342:LEU:HD11	1.69	0.75
33:Z:291:GLU:O	33:Z:295:ARG:N	2.20	0.75
8:a:244:ARG:O	8:a:248:ILE:N	2.18	0.75
11:d:26:ALA:O	11:d:30:GLY:N	2.18	0.75
2:2:73:GLU:OE2	2:2:75:LEU:HB2	1.87	0.74
2:2:242:LYS:HB3	2:2:245:LEU:HD11	1.68	0.74
3:3:32:ILE:HG12	3:3:196:VAL:HA	1.69	0.74
8:A:130:GLN:HA	9:B:128:ARG:HG2	1.68	0.74
9:B:12:PHE:H	10:C:21:GLN:HE22	1.34	0.74
15:H:103:THR:HA	15:H:144:LYS:HE3	1.69	0.74
17:J:38:THR:HB	17:J:39:GLU:OE2	1.85	0.74
21:N:702:ALA:HA	21:N:705:ILE:HD12	1.68	0.74
25:R:372:ILE:CB	26:S:395:ILE:CG2	2.50	0.74
26:S:205:ASN:HA	26:S:208:ILE:HB	1.69	0.74
26:S:440:ASP:HB3	26:S:442:PHE:CD2	2.21	0.74
27:T:213:ASN:HB3	27:T:216:GLU:HG3	1.67	0.74
29:V:38:LEU:O	29:V:42:ARG:N	2.14	0.74
29:V:95:LEU:O	29:V:100:ARG:N	2.20	0.74
33:Z:152:GLU:OE2	33:Z:155:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:74:ILE:HA	3:h:77:ILE:HD12	1.67	0.74
6:k:118:GLN:N	6:k:126:VAL:O	2.20	0.74
5:5:44:PHE:N	5:5:51:LEU:O	2.19	0.74
11:D:203:VAL:HG11	11:D:210:ILE:HG13	1.69	0.74
16:I:126:PRO:HB2	16:I:128:TYR:CE2	2.21	0.74
17:J:116:ARG:N	17:J:121:MET:O	2.20	0.74
18:K:391:GLY:HA2	18:K:402:ILE:HD13	1.68	0.74
19:L:219:LEU:O	19:L:347:VAL:N	2.17	0.74
20:M:31:GLN:HB3	20:M:35:LYS:HE3	1.68	0.74
22:O:171:PHE:O	22:O:175:ASN:N	2.17	0.74
22:O:266:PHE:CZ	22:O:274:ILE:HG12	2.22	0.74
24:Q:109:ASP:CB	24:Q:114:GLN:HE21	2.01	0.74
24:Q:335:PHE:HA	24:Q:338:LEU:HB3	1.69	0.74
24:Q:360:SER:O	24:Q:364:LYS:N	2.17	0.74
24:Q:392:GLN:N	25:R:347:THR:O	2.18	0.74
24:Q:408:THR:OG1	25:R:399:GLN:NE2	2.18	0.74
30:W:24:THR:O	30:W:28:ALA:N	2.15	0.74
8:a:27:GLN:O	8:a:31:ALA:N	2.17	0.74
8:a:182:LEU:O	8:a:186:PHE:N	2.16	0.74
9:b:184:GLU:HB3	9:b:187:ASP:OD2	1.86	0.74
1:8:37:GLU:O	1:8:138:LYS:HA	1.85	0.74
8:A:244:ARG:O	8:A:248:ILE:HG23	1.86	0.74
10:C:43:GLY:HA2	10:C:146:TYR:CZ	2.21	0.74
12:E:204:LEU:O	12:E:208:MET:N	2.19	0.74
16:I:174:ASP:O	16:I:244:PHE:N	2.16	0.74
19:L:108:VAL:HA	19:L:119:VAL:HG22	1.68	0.74
20:M:31:GLN:O	20:M:35:LYS:N	2.16	0.74
21:N:269:LEU:HD12	21:N:272:ILE:HD12	1.69	0.74
21:N:486:GLY:O	21:N:490:LEU:N	2.19	0.74
21:N:710:GLY:O	21:N:712:ASN:ND2	2.20	0.74
22:O:44:SER:O	22:O:48:PHE:N	2.16	0.74
22:O:183:ASN:HA	22:O:185:PHE:CE2	2.22	0.74
22:O:330:ARG:HG3	22:O:334:LEU:HG	1.68	0.74
24:Q:182:SER:HA	24:Q:194:SER:HA	1.68	0.74
25:R:396:LYS:HA	26:S:452:TYR:CE2	2.22	0.74
26:S:437:ASN:O	26:S:441:GLY:N	2.20	0.74
27:T:254:ASP:HA	27:T:257:THR:HB	1.68	0.74
28:U:16:LEU:HB3	29:V:32:ILE:HG12	1.69	0.74
30:W:25:ARG:NE	30:W:115:CYS:SG	2.60	0.74
33:Z:599:ILE:HA	33:Z:602:LEU:HB2	1.68	0.74
33:Z:807:VAL:O	33:Z:811:SER:N	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:115:GLY:HA2	11:d:118:GLN:HB3	1.69	0.74
14:g:179:LEU:HA	14:g:182:HIS:HB2	1.68	0.74
7:7:273:TRP:CG	5:j:201:LYS:HE3	2.22	0.74
16:I:198:VAL:HG12	16:I:240:THR:HG21	1.69	0.74
17:J:53:ASP:N	21:N:611:LYS:HZ3	1.85	0.74
21:N:236:GLY:O	21:N:240:GLN:N	2.15	0.74
21:N:495:PRO:O	21:N:499:HIS:ND1	2.21	0.74
22:O:192:SER:O	22:O:196:LEU:N	2.19	0.74
23:P:426:ILE:HD12	29:V:238:LEU:HD21	1.68	0.74
24:Q:83:GLU:O	24:Q:87:GLN:N	2.20	0.74
28:U:171:VAL:HG13	29:V:213:LEU:HD21	1.68	0.74
28:U:276:ILE:HA	29:V:291:ASN:ND2	2.02	0.74
30:W:109:ARG:NH2	30:W:195:GLY:O	2.20	0.74
30:W:151:THR:N	30:W:155:ASP:OD2	2.20	0.74
33:Z:120:SER:O	33:Z:124:MET:N	2.20	0.74
33:Z:334:LYS:HG3	33:Z:336:SER:H	1.50	0.74
11:d:68:ASP:HB3	11:d:71:VAL:HB	1.69	0.74
2:9:215:ARG:HD3	2:9:248:GLU:O	1.87	0.74
8:A:27:GLN:O	8:A:31:ALA:N	2.17	0.74
8:A:62:LYS:HB3	14:G:180:VAL:HG11	1.68	0.74
15:H:171:GLY:O	15:H:173:ARG:HG3	1.87	0.74
15:H:200:VAL:HG11	15:H:301:LYS:NZ	2.02	0.74
16:I:110:GLU:HB3	16:I:119:ILE:HG23	1.67	0.74
16:I:250:SER:HB3	17:J:231:ARG:HH22	1.51	0.74
17:J:154:THR:HA	17:J:157:ILE:HB	1.69	0.74
21:N:25:LEU:HD13	21:N:60:MET:HB3	1.69	0.74
22:O:30:GLU:H	22:O:58:ARG:HH21	1.35	0.74
22:O:66:VAL:HA	22:O:69:PHE:HB2	1.68	0.74
23:P:235:LEU:O	23:P:239:GLN:N	2.19	0.74
24:Q:221:MET:HA	24:Q:224:ILE:HB	1.68	0.74
25:R:380:VAL:O	25:R:389:GLU:N	2.21	0.74
26:S:152:LEU:HD13	26:S:187:ILE:HG12	1.68	0.74
27:T:27:LEU:O	27:T:31:LYS:N	2.18	0.74
27:T:50:ILE:HG13	27:T:51:TYR:H	1.53	0.74
28:U:279:SER:O	28:U:283:ARG:N	2.18	0.74
29:V:93:ASP:O	29:V:97:GLN:N	2.16	0.74
30:W:15:TYR:CE2	30:W:145:GLY:HA2	2.23	0.74
8:a:87:ILE:HA	8:a:90:ALA:HB3	1.70	0.74
5:j:44:PHE:N	5:j:51:LEU:O	2.19	0.74
9:B:158:PRO:HB2	10:C:58:GLU:HB3	1.68	0.74
11:D:118:GLN:NE2	12:E:83:ALA:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:148:GLN:O	13:F:151:GLY:N	2.20	0.74
16:I:190:GLN:HB3	16:I:348:ILE:HG23	1.68	0.74
17:J:156:GLN:HG2	17:J:316:PHE:CB	1.96	0.74
17:J:252:SER:O	17:J:257:ARG:NH2	2.20	0.74
21:N:22:THR:HG23	21:N:57:ASP:OD2	1.88	0.74
21:N:585:ARG:HH21	21:N:616:HIS:HA	1.51	0.74
21:N:779:GLU:HB3	21:N:782:PHE:HD2	1.52	0.74
21:N:919:THR:HG23	21:N:921:ARG:HB3	1.69	0.74
22:O:110:ASP:OD1	22:O:111:SER:N	2.19	0.74
22:O:352:TRP:O	22:O:353:VAL:HG12	1.87	0.74
23:P:435:LYS:HZ2	28:U:156:HIS:HB3	1.49	0.74
25:R:119:LYS:HA	25:R:122:GLU:HB3	1.69	0.74
28:U:21:HIS:ND1	28:U:93:TYR:OH	2.20	0.74
28:U:39:GLY:HA2	28:U:49:THR:HG23	1.68	0.74
33:Z:135:LEU:HB2	33:Z:157:LEU:HD22	1.70	0.74
33:Z:475:GLN:NE2	33:Z:504:GLU:OE1	2.19	0.74
33:Z:821:GLY:HA3	33:Z:862:MET:HB2	1.70	0.74
10:c:64:GLU:HG3	10:c:65:LYS:HG3	1.70	0.74
2:2:215:ARG:HD3	2:2:248:GLU:O	1.87	0.74
7:7:77:THR:HA	7:7:205:GLY:HA3	1.69	0.74
1:8:89:ASN:HD21	13:F:93:ASN:HD21	1.33	0.74
8:A:131:ARG:HH11	9:B:127:VAL:CG1	2.01	0.74
12:E:168:ASN:N	13:F:56:LEU:O	2.20	0.74
15:H:224:VAL:HG22	15:H:243:PRO:HG2	1.68	0.74
16:I:118:ALA:O	16:I:130:VAL:N	2.19	0.74
16:I:252:LEU:HD12	16:I:252:LEU:H	1.52	0.74
16:I:347:LYS:HZ3	16:I:349:LEU:HB3	1.51	0.74
19:L:366:ALA:HA	19:L:370:LYS:HD2	1.68	0.74
20:M:242:THR:O	20:M:277:ILE:N	2.20	0.74
20:M:420:SER:HA	13:f:202:ARG:HH21	1.53	0.74
21:N:20:VAL:O	21:N:24:ALA:N	2.19	0.74
21:N:566:SER:OG	21:N:570:ARG:NH1	2.21	0.74
22:O:207:LEU:HD22	22:O:211:GLN:HE22	1.52	0.74
26:S:273:PHE:O	26:S:277:SER:N	2.15	0.74
27:T:259:ILE:O	27:T:263:ALA:N	2.12	0.74
30:W:70:GLY:O	30:W:74:ALA:N	2.19	0.74
3:h:32:ILE:HG12	3:h:196:VAL:HA	1.69	0.74
6:6:21:VAL:O	6:6:28:LEU:N	2.21	0.74
6:6:155:GLU:HA	6:6:158:LEU:HD12	1.69	0.74
8:A:142:THR:HA	8:A:156:LYS:HA	1.69	0.74
9:B:122:THR:HA	9:B:129:PRO:HG3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:64:GLU:HG3	10:C:65:LYS:HG3	1.70	0.74
12:E:99:HIS:O	12:E:103:TYR:N	2.17	0.74
16:I:91:GLU:OE2	16:I:98:GLU:OE2	2.06	0.74
17:J:168:VAL:HG11	17:J:206:THR:HB	1.70	0.74
17:J:337:LEU:HA	17:J:377:VAL:H	1.51	0.74
19:L:264:ARG:O	19:L:268:ALA:N	2.21	0.74
20:M:79:VAL:O	20:M:122:SER:N	2.20	0.74
23:P:40:LEU:C	23:P:44:LYS:HZ3	1.95	0.74
23:P:241:LEU:HB3	23:P:264:ILE:HG12	1.68	0.74
25:R:309:LEU:HD13	32:Y:76:GLU:HB2	1.69	0.74
25:R:331:ARG:HB3	25:R:371:PHE:HZ	1.52	0.74
26:S:419:VAL:O	26:S:423:VAL:N	2.16	0.74
28:U:56:PHE:HE2	28:U:58:GLU:HB2	1.52	0.74
3:h:109:LYS:HA	3:h:112:LEU:HB2	1.70	0.74
4:i:47:THR:O	4:i:60:CYS:N	2.21	0.74
6:k:21:VAL:O	6:k:28:LEU:N	2.21	0.74
1:1:47:ARG:HB2	1:1:219:ASP:HB2	1.69	0.74
1:1:54:ILE:HB	2:2:189:ARG:NH1	2.01	0.74
3:3:102:LYS:NZ	2:9:94:GLN:HB3	2.01	0.74
7:7:125:ALA:O	7:7:129:PHE:N	2.20	0.74
8:A:20:SER:O	9:B:23:TYR:HB3	1.88	0.74
11:D:181:ARG:NH2	12:E:57:PRO:O	2.20	0.74
12:E:59:LEU:HD21	12:E:64:ILE:HD11	1.70	0.74
13:F:67:ASP:OD1	13:F:68:GLU:N	2.21	0.74
15:H:303:ALA:H	15:H:348:ASN:HB3	1.53	0.74
17:J:273:LEU:HB3	17:J:309:ARG:NH1	2.01	0.74
18:K:206:PRO:HB3	18:K:335:ASP:HB2	1.69	0.74
19:L:103:GLN:N	20:M:128:PHE:O	2.20	0.74
21:N:542:SER:O	21:N:548:ARG:NE	2.21	0.74
22:O:29:PHE:CD2	22:O:61:LEU:HD11	2.23	0.74
22:O:343:GLN:HB3	23:P:360:ILE:HA	1.70	0.74
23:P:34:SER:OG	23:P:69:ARG:NH1	2.21	0.74
23:P:108:LYS:HA	23:P:112:LEU:CD2	2.18	0.74
24:Q:197:SER:O	24:Q:201:ALA:N	2.16	0.74
24:Q:370:THR:O	24:Q:374:GLU:N	2.20	0.74
26:S:471:LEU:HD13	28:U:288:PHE:CA	2.17	0.74
28:U:195:LYS:HE2	28:U:198:LYS:HD3	1.70	0.74
31:X:7:VAL:HG11	31:X:36:LYS:HD2	1.70	0.74
33:Z:985:LYS:HG2	33:Z:991:GLU:HG2	1.70	0.74
8:a:14:ARG:HG2	8:a:26:TYR:CG	2.23	0.74
14:g:123:HIS:HB3	14:g:131:PRO:HA	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:80:ASP:OD2	4:4:124:GLY:N	2.19	0.74
8:A:75:ILE:H	8:A:80:GLY:HA2	1.53	0.74
16:I:306:MET:O	16:I:310:LEU:N	2.17	0.74
17:J:230:VAL:HG11	17:J:271:THR:HG22	1.70	0.74
19:L:66:GLU:OE1	19:L:70:TYR:OH	2.05	0.74
20:M:398:ALA:O	20:M:402:ALA:N	2.21	0.74
24:Q:142:ALA:O	24:Q:146:TYR:N	2.21	0.74
25:R:149:ASN:O	25:R:153:THR:N	2.12	0.74
25:R:342:LEU:O	25:R:345:TYR:N	2.21	0.74
28:U:141:GLU:N	28:U:153:THR:H	1.83	0.74
29:V:246:LYS:HE2	29:V:250:GLN:NE2	2.02	0.74
11:d:44:LEU:N	11:d:213:THR:O	2.14	0.74
13:f:90:GLN:O	13:f:94:TYR:N	2.12	0.74
14:g:33:ASN:HA	14:g:167:LYS:HZ3	1.52	0.74
3:h:113:THR:HG23	3:h:134:LEU:HD21	1.69	0.74
2:2:58:ASP:OD2	2:2:60:LEU:HB3	1.88	0.73
5:5:21:VAL:HG13	5:5:119:PRO:HB3	1.70	0.73
11:D:122:GLN:HB3	12:E:136:ARG:NH2	2.03	0.73
18:K:255:ARG:HA	18:K:302:GLN:HE22	1.53	0.73
19:L:180:PHE:HB2	19:L:190:ILE:HG23	1.69	0.73
19:L:241:ALA:HA	19:L:275:PRO:HB2	1.70	0.73
21:N:450:ILE:HG23	21:N:451:GLY:H	1.52	0.73
21:N:573:HIS:O	21:N:577:SER:N	2.18	0.73
22:O:382:LYS:HD3	22:O:383:LYS:HZ2	1.51	0.73
23:P:139:VAL:HA	23:P:142:ASP:HB2	1.69	0.73
23:P:278:ASN:HA	23:P:281:ILE:HG13	1.68	0.73
24:Q:7:LYS:HZ1	24:Q:34:ASP:HB2	1.52	0.73
24:Q:8:LEU:H	24:Q:50:ARG:HH22	1.35	0.73
25:R:413:LYS:HA	25:R:416:LYS:HB3	1.69	0.73
28:U:35:GLY:O	28:U:93:TYR:N	2.20	0.73
28:U:195:LYS:O	28:U:198:LYS:N	2.21	0.73
29:V:246:LYS:HB2	29:V:250:GLN:NE2	2.03	0.73
33:Z:106:TRP:HB2	33:Z:112:LYS:HZ2	1.50	0.73
10:c:21:GLN:O	10:c:25:ALA:N	2.14	0.73
13:f:67:ASP:OD1	13:f:68:GLU:N	2.21	0.73
1:1:95:HIS:HE1	1:1:102:LYS:HA	1.52	0.73
2:9:58:ASP:OD2	2:9:60:LEU:HB3	1.88	0.73
8:A:87:ILE:HA	8:A:90:ALA:HB3	1.70	0.73
9:B:14:PRO:HA	10:C:24:TYR:CE1	2.22	0.73
9:B:97:TYR:HE1	9:B:103:GLU:HG3	1.53	0.73
11:D:68:ASP:HB3	11:D:71:VAL:HB	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:146:GLY:O	12:E:154:GLN:N	2.20	0.73
14:G:220:SER:OG	14:G:222:SER:OG	2.04	0.73
15:H:199:THR:O	15:H:273:ARG:N	2.19	0.73
17:J:276:LEU:HD21	17:J:290:ILE:HD12	1.70	0.73
18:K:63:LEU:HA	18:K:66:ASP:OD2	1.88	0.73
19:L:98:LEU:HD13	20:M:71:ASN:ND2	2.03	0.73
22:O:15:ARG:NH2	30:W:145:GLY:CA	2.50	0.73
22:O:331:ALA:O	22:O:334:LEU:HB2	1.88	0.73
23:P:56:LYS:O	23:P:60:ALA:N	2.20	0.73
23:P:396:PRO:HD3	24:Q:361:HIS:CE1	2.21	0.73
24:Q:347:LEU:O	24:Q:351:ILE:N	2.19	0.73
27:T:33:GLU:O	27:T:37:ASN:N	2.20	0.73
28:U:141:GLU:CA	28:U:152:LYS:C	2.61	0.73
33:Z:112:LYS:NZ	33:Z:140:LEU:HD22	2.03	0.73
8:a:75:ILE:H	8:a:80:GLY:HA2	1.53	0.73
9:b:158:PRO:HB2	10:c:58:GLU:HB3	1.69	0.73
12:e:192:THR:N	12:e:195:GLU:OE1	2.21	0.73
13:f:66:CYS:HA	13:f:89:ARG:HG2	1.70	0.73
4:i:75:ALA:N	4:i:126:TYR:O	2.19	0.73
1:8:47:ARG:HB2	1:8:219:ASP:HB2	1.69	0.73
12:E:192:THR:N	12:E:195:GLU:OE1	2.21	0.73
21:N:568:VAL:HA	21:N:571:LEU:HD12	1.70	0.73
22:O:302:VAL:HG21	22:O:365:LYS:HD3	1.70	0.73
22:O:338:LYS:NZ	22:O:353:VAL:N	2.35	0.73
23:P:63:VAL:HA	23:P:66:LEU:HD12	1.70	0.73
25:R:350:LEU:H	25:R:387:ILE:HA	1.52	0.73
26:S:131:THR:OG1	26:S:174:ARG:NH2	2.17	0.73
26:S:158:PHE:O	26:S:162:VAL:N	2.22	0.73
26:S:409:LEU:HA	26:S:412:ASN:HB2	1.69	0.73
26:S:411:LEU:O	26:S:415:SER:N	2.21	0.73
30:W:123:ASP:HB3	30:W:127:ARG:NH1	2.03	0.73
30:W:130:LYS:O	30:W:134:LYS:N	2.16	0.73
31:X:16:GLU:O	31:X:18:ASN:ND2	2.22	0.73
33:Z:357:ILE:O	33:Z:360:SER:OG	2.04	0.73
10:c:175:LEU:HB3	10:c:199:LYS:NZ	2.03	0.73
5:j:21:VAL:HG13	5:j:119:PRO:HB3	1.70	0.73
7:l:76:THR:HG23	7:l:108:LYS:CE	2.18	0.73
2:2:42:THR:HG22	2:2:74:ARG:CZ	2.18	0.73
1:8:92:LYS:NZ	13:F:93:ASN:HB2	2.02	0.73
10:C:206:LEU:HD11	10:C:211:LEU:HD21	1.70	0.73
10:C:240:VAL:HA	10:C:245:THR:HA	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:171:TYR:O	13:F:175:THR:OG1	2.07	0.73
15:H:294:LEU:HD11	15:H:306:ILE:HG12	1.70	0.73
15:H:429:PHE:HA	15:H:432:ARG:HB2	1.69	0.73
18:K:162:GLY:O	18:K:235:ILE:HA	1.87	0.73
19:L:400:PHE:CE1	20:M:215:PRO:HD3	2.22	0.73
21:N:25:LEU:O	21:N:29:ASN:N	2.21	0.73
21:N:335:ALA:HA	21:N:338:PHE:CD2	2.24	0.73
21:N:509:GLN:O	21:N:510:HIS:ND1	2.21	0.73
21:N:769:PRO:HG3	21:N:890:PHE:CE2	2.23	0.73
22:O:266:PHE:HD1	22:O:269:LEU:HD12	1.53	0.73
23:P:155:GLU:HA	23:P:158:ASP:HB2	1.69	0.73
23:P:425:HIS:HE2	28:U:233:PHE:HD1	1.32	0.73
8:a:26:TYR:O	8:a:30:TYR:N	2.20	0.73
8:a:142:THR:HA	8:a:156:LYS:HA	1.69	0.73
9:b:123:GLN:NE2	10:c:129:ARG:O	2.21	0.73
14:g:62:GLN:NE2	14:g:213:GLU:OE2	2.21	0.73
6:k:5:LEU:HB2	6:k:16:ALA:HB3	1.70	0.73
4:4:59:ASN:OD1	4:4:217:ARG:NH2	2.22	0.73
7:7:248:GLY:O	5:j:203:ARG:NH2	2.20	0.73
1:8:27:ASN:ND2	2:9:168:VAL:HG11	2.03	0.73
2:9:43:SER:O	2:9:74:ARG:NH2	2.19	0.73
10:C:175:LEU:HB3	10:C:199:LYS:NZ	2.03	0.73
14:G:62:GLN:NE2	14:G:213:GLU:OE2	2.21	0.73
15:H:367:ARG:HH21	15:H:370:ARG:HD2	1.52	0.73
16:I:220:ILE:O	16:I:348:ILE:N	2.16	0.73
18:K:212:TYR:N	18:K:338:ILE:O	2.21	0.73
20:M:79:VAL:HG21	20:M:145:LEU:HD23	1.70	0.73
20:M:223:PRO:HD2	20:M:350:PRO:HA	1.69	0.73
20:M:389:ALA:O	20:M:393:ALA:N	2.17	0.73
21:N:682:PHE:O	21:N:686:ILE:N	2.15	0.73
22:O:262:ASP:OD2	22:O:265:LYS:HG3	1.88	0.73
23:P:146:ILE:O	23:P:150:GLU:N	2.16	0.73
23:P:217:LYS:O	23:P:221:TYR:N	2.15	0.73
23:P:253:ASP:O	23:P:257:TRP:HB3	1.88	0.73
23:P:435:LYS:HZ1	28:U:156:HIS:N	1.86	0.73
24:Q:409:TYR:CE2	25:R:402:LEU:HB2	2.23	0.73
26:S:409:LEU:O	26:S:413:LEU:N	2.21	0.73
26:S:480:ARG:HG3	26:S:484:ASP:OD2	1.87	0.73
26:S:482:PRO:HB3	28:U:299:LYS:HB2	1.69	0.73
30:W:164:PRO:HG2	30:W:167:GLU:HB3	1.69	0.73
33:Z:112:LYS:HE3	33:Z:140:LEU:O	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:304:PRO:HA	33:Z:340:LEU:HD13	1.69	0.73
11:d:120:TYR:HA	11:d:123:SER:HB2	1.68	0.73
10:C:20:TYR:O	10:C:24:TYR:N	2.16	0.73
11:D:115:GLY:O	11:D:119:ARG:N	2.20	0.73
14:G:169:ARG:O	14:G:173:LYS:N	2.21	0.73
14:G:183:HIS:ND1	14:G:185:GLU:OE2	2.17	0.73
15:H:321:ASP:OD2	20:M:250:GLN:NE2	2.20	0.73
16:I:149:LEU:HD23	16:I:156:ILE:HA	1.69	0.73
18:K:394:ALA:HB3	18:K:402:ILE:HG12	1.69	0.73
21:N:324:LYS:HB3	21:N:327:LEU:HB2	1.70	0.73
21:N:363:ALA:O	21:N:367:ALA:N	2.19	0.73
21:N:762:ARG:NE	21:N:907:ASP:OD2	2.21	0.73
22:O:211:GLN:HE21	22:O:241:THR:HA	1.52	0.73
22:O:304:ASN:HD22	28:U:261:LEU:HA	1.54	0.73
23:P:214:GLU:O	23:P:218:LEU:N	2.16	0.73
26:S:376:THR:HA	26:S:378:GLN:HE22	1.52	0.73
30:W:132:LEU:O	30:W:136:ASN:N	2.21	0.73
33:Z:308:LYS:O	33:Z:312:TYR:N	2.21	0.73
9:b:43:VAL:HG23	9:b:145:PHE:HB3	1.71	0.73
9:b:122:THR:HA	9:b:129:PRO:HG3	1.69	0.73
13:f:171:TYR:O	13:f:175:THR:OG1	2.07	0.73
1:1:33:GLY:HA2	1:1:42:LEU:HA	1.71	0.73
1:1:48:ASN:HB3	1:1:56:SER:H	1.54	0.73
1:1:113:GLN:HE22	7:l:128:GLN:HG2	1.52	0.73
2:2:255:ALA:O	3:3:193:ARG:NH2	2.21	0.73
3:3:113:THR:HG23	3:3:134:LEU:HD21	1.69	0.73
8:A:177:GLU:N	8:A:177:GLU:OE1	2.19	0.73
13:F:66:CYS:HA	13:F:89:ARG:HG2	1.70	0.73
15:H:428:MET:HE3	15:H:432:ARG:HH22	1.52	0.73
17:J:110:SER:OG	17:J:128:ASN:ND2	2.13	0.73
21:N:123:PHE:HZ	21:N:161:TYR:HB2	1.53	0.73
22:O:311:GLU:OE1	22:O:321:LYS:HG3	1.87	0.73
22:O:377:VAL:O	22:O:381:GLY:N	2.17	0.73
23:P:394:ASN:HB3	23:P:397:ALA:HB3	1.71	0.73
24:Q:104:PHE:HB3	24:Q:114:GLN:HE22	1.54	0.73
24:Q:232:TYR:O	24:Q:236:PHE:N	2.21	0.73
24:Q:236:PHE:O	24:Q:240:PHE:N	2.22	0.73
26:S:143:GLN:NE2	26:S:148:ASP:OD2	2.20	0.73
27:T:18:GLY:HA2	27:T:20:TYR:CZ	2.24	0.73
27:T:104:LYS:HZ1	27:T:169:GLN:HE22	1.35	0.73
28:U:283:ARG:HB2	29:V:288:LEU:CD2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:372:ALA:HB3	33:Z:849:ARG:HH12	1.53	0.73
14:g:169:ARG:O	14:g:173:LYS:N	2.21	0.73
4:i:59:ASN:OD1	4:i:217:ARG:NH2	2.22	0.73
4:i:176:THR:N	4:i:179:GLU:OE1	2.21	0.73
4:4:47:THR:O	4:4:60:CYS:N	2.21	0.73
2:9:36:GLN:HE21	2:9:38:ILE:HD11	1.53	0.73
2:9:215:ARG:O	2:9:219:TYR:N	2.22	0.73
12:E:243:LEU:HD23	12:E:243:LEU:N	2.03	0.73
15:H:225:VAL:HG13	15:H:350:LYS:HG3	1.71	0.73
17:J:187:LEU:H	17:J:293:ALA:HA	1.54	0.73
19:L:357:ARG:HD3	19:L:386:PHE:H	1.52	0.73
23:P:196:ALA:O	23:P:200:SER:N	2.14	0.73
24:Q:329:GLU:HA	24:Q:332:ARG:HB3	1.69	0.73
27:T:32:ILE:HG22	27:T:36:LYS:HE2	1.71	0.73
27:T:60:ARG:O	27:T:64:VAL:N	2.20	0.73
28:U:132:LEU:H	29:V:215:ASN:HD21	1.37	0.73
33:Z:309:GLN:O	33:Z:313:ILE:N	2.21	0.73
33:Z:964:GLU:HG2	33:Z:965:LEU:HG	1.71	0.73
10:c:197:LEU:O	10:c:201:THR:N	2.22	0.73
13:f:198:SER:HA	13:f:201:LEU:HD12	1.71	0.73
6:k:109:LYS:NZ	6:k:186:LYS:O	2.22	0.73
6:6:109:LYS:NZ	6:6:186:LYS:O	2.22	0.73
11:D:115:GLY:HA2	11:D:118:GLN:HB3	1.69	0.73
19:L:398:ALA:O	19:L:402:ALA:N	2.19	0.73
20:M:401:ILE:HG21	20:M:417:GLU:HB2	1.70	0.73
21:N:461:GLU:O	21:N:465:ALA:N	2.20	0.73
22:O:184:ASP:O	22:O:187:SER:OG	2.04	0.73
22:O:190:TYR:HA	22:O:193:LEU:HB3	1.70	0.73
23:P:101:MET:HE3	23:P:115:ARG:HG3	1.70	0.73
26:S:143:GLN:CD	26:S:148:ASP:OD2	2.31	0.73
27:T:202:LEU:N	27:T:231:SER:O	2.22	0.73
28:U:140:ILE:C	28:U:153:THR:O	2.31	0.73
29:V:129:PHE:O	29:V:132:LEU:N	2.21	0.73
33:Z:501:LYS:HD2	33:Z:534:PHE:HA	1.68	0.73
33:Z:808:SER:O	33:Z:812:ILE:N	2.21	0.73
12:e:204:LEU:O	12:e:208:MET:N	2.19	0.73
2:2:110:ASP:OD1	14:g:68:GLN:NE2	2.22	0.73
6:6:118:GLN:N	6:6:126:VAL:O	2.20	0.73
1:8:48:ASN:HB3	1:8:56:SER:H	1.54	0.73
1:8:57:ARG:HH22	4:i:193:TRP:C	1.97	0.73
8:A:168:ALA:O	9:B:55:LEU:HB3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:252:LEU:HD12	16:I:252:LEU:N	2.04	0.73
19:L:132:ARG:H	19:L:135:VAL:HG11	1.53	0.73
20:M:167:VAL:O	20:M:170:MET:N	2.20	0.73
24:Q:32:ASP:HA	24:Q:44:ALA:HB3	1.70	0.73
1:1:57:ARG:HE	2:2:189:ARG:HD3	1.54	0.72
1:1:171:ASN:OD1	1:1:178:GLN:NE2	2.22	0.72
1:1:213:ARG:NH1	4:4:58:LYS:HG3	2.04	0.72
15:H:60:GLU:HB3	15:H:64:LYS:HE3	1.69	0.72
17:J:75:VAL:HA	17:J:86:VAL:HG22	1.71	0.72
20:M:219:LEU:HD21	20:M:330:VAL:HG11	1.70	0.72
21:N:13:LEU:HD11	21:N:49:LEU:HD11	1.71	0.72
21:N:121:GLU:OE2	21:N:199:ASN:ND2	2.22	0.72
22:O:87:LYS:NZ	22:O:138:LEU:HD13	2.03	0.72
23:P:287:ASP:O	23:P:289:ASN:N	2.22	0.72
24:Q:30:LEU:O	24:Q:54:GLN:NE2	2.21	0.72
24:Q:246:TYR:HA	24:Q:249:LEU:HB2	1.69	0.72
24:Q:389:VAL:O	24:Q:398:TYR:N	2.21	0.72
26:S:218:LEU:HA	26:S:230:LYS:NZ	2.03	0.72
26:S:349:THR:O	26:S:353:LYS:N	2.17	0.72
29:V:137:VAL:HB	29:V:155:ALA:HB1	1.69	0.72
31:X:76:VAL:HG13	31:X:79:LYS:HB3	1.71	0.72
10:c:194:LEU:HD12	10:c:242:THR:HG21	1.71	0.72
11:d:94:GLN:HA	11:d:97:ARG:HD3	1.70	0.72
13:f:9:ASP:HB3	13:f:11:VAL:HG12	1.69	0.72
3:h:20:THR:C	3:h:188:SER:OG	2.31	0.72
5:5:189:ILE:HB	5:5:196:VAL:HB	1.71	0.72
9:B:123:GLN:NE2	10:C:129:ARG:O	2.21	0.72
9:B:218:ASN:OD1	9:B:236:ARG:NH2	2.22	0.72
10:C:13:PHE:N	11:D:19:GLN:HE22	1.86	0.72
13:F:9:ASP:HB3	13:F:11:VAL:HG12	1.69	0.72
15:H:385:ARG:HA	15:H:419:LEU:HD13	1.71	0.72
16:I:150:HIS:ND1	16:I:152:LYS:HG3	2.04	0.72
17:J:72:VAL:HA	17:J:113:VAL:O	1.89	0.72
21:N:379:LEU:HA	21:N:412:TYR:HE1	1.52	0.72
21:N:530:GLU:HA	21:N:533:ASP:OD2	1.88	0.72
23:P:260:VAL:O	23:P:264:ILE:N	2.20	0.72
24:Q:363:SER:O	24:Q:367:GLY:N	2.22	0.72
26:S:461:PHE:CD1	28:U:277:TYR:HB2	2.24	0.72
33:Z:139:LEU:HD22	33:Z:199:ASP:HB3	1.70	0.72
33:Z:824:ASN:HA	33:Z:828:ALA:HA	1.71	0.72
9:b:29:LYS:NZ	9:b:165:GLY:O	2.15	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:146:GLY:O	12:e:154:GLN:N	2.20	0.72
14:g:237:GLN:NE2	14:g:241:ASP:OD1	2.22	0.72
6:k:162:LYS:HZ1	6:k:198:GLN:N	1.87	0.72
4:4:243:LYS:O	5:5:199:TYR:N	2.20	0.72
7:7:182:LYS:HD2	11:D:141:ARG:HE	1.54	0.72
11:D:161:ALA:HB3	12:E:58:LEU:HD13	1.70	0.72
14:G:36:THR:HB	14:G:168:GLY:H	1.52	0.72
15:H:97:LEU:HD11	15:H:173:ARG:O	1.89	0.72
17:J:318:PRO:HB2	17:J:319:PRO:C	2.13	0.72
23:P:392:LYS:H	23:P:400:VAL:HG13	1.54	0.72
25:R:128:LEU:O	25:R:132:GLN:N	2.23	0.72
25:R:289:ILE:HG13	25:R:290:SER:H	1.54	0.72
25:R:413:LYS:O	25:R:417:TYR:N	2.20	0.72
28:U:77:ASN:HB3	28:U:81:LYS:HZ2	1.52	0.72
28:U:283:ARG:HD3	28:U:283:ARG:C	2.15	0.72
33:Z:575:MET:HB3	33:Z:875:LYS:HZ3	1.51	0.72
10:c:206:LEU:HD11	10:c:211:LEU:HD21	1.70	0.72
11:d:115:GLY:O	11:d:119:ARG:N	2.20	0.72
5:j:104:PHE:HA	5:j:126:LEU:HD22	1.70	0.72
4:4:203:ASP:OD1	4:4:218:ASN:N	2.21	0.72
1:8:31:ILE:N	1:8:158:GLY:O	2.16	0.72
1:8:33:GLY:HA2	1:8:42:LEU:HA	1.71	0.72
10:C:21:GLN:O	10:C:25:ALA:N	2.14	0.72
14:G:237:GLN:NE2	14:G:241:ASP:OD1	2.22	0.72
15:H:247:LEU:HB3	15:H:374:LYS:HG3	1.71	0.72
16:I:116:ASP:C	16:I:138:LYS:HZ1	1.97	0.72
16:I:116:ASP:O	16:I:138:LYS:NZ	2.19	0.72
16:I:142:GLU:OE2	16:I:269:LYS:NZ	2.21	0.72
19:L:104:LEU:O	19:L:148:LEU:N	2.17	0.72
21:N:43:LEU:HA	21:N:46:ILE:HB	1.71	0.72
23:P:94:GLN:HA	23:P:97:ILE:HB	1.70	0.72
24:Q:9:GLU:OE2	24:Q:13:ARG:NH2	2.22	0.72
26:S:17:ASP:HA	26:S:20:HIS:CD2	2.24	0.72
26:S:159:ASN:O	26:S:163:VAL:N	2.14	0.72
26:S:250:ALA:O	26:S:254:ILE:N	2.17	0.72
26:S:369:GLN:O	26:S:373:LYS:N	2.19	0.72
14:g:36:THR:HB	14:g:168:GLY:H	1.52	0.72
7:7:100:TRP:CZ3	1:8:163:SER:HA	2.24	0.72
1:8:95:HIS:HE1	1:8:102:LYS:HA	1.52	0.72
10:C:44:ILE:N	10:C:216:ILE:O	2.19	0.72
10:C:152:ASN:OD1	10:C:154:SER:OG	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:346:ASN:HB2	21:N:350:LYS:HZ2	1.55	0.72
24:Q:137:LEU:HA	24:Q:140:LYS:HZ1	1.55	0.72
24:Q:362:ILE:HA	24:Q:365:ILE:HB	1.70	0.72
25:R:152:LYS:HB3	25:R:156:LYS:NZ	2.03	0.72
25:R:192:GLU:OE2	25:R:210:TYR:OH	2.06	0.72
25:R:391:ASN:OD1	25:R:392:ARG:N	2.23	0.72
26:S:132:ALA:O	26:S:136:CYS:N	2.23	0.72
8:a:158:ASP:OD2	8:a:162:TYR:HB3	1.90	0.72
5:5:143:SER:HA	5:5:146:LEU:HD12	1.71	0.72
6:6:5:LEU:HB2	6:6:16:ALA:HB3	1.70	0.72
2:9:194:ARG:N	2:9:197:ASP:OD2	2.19	0.72
12:E:71:ASP:OD1	12:E:72:ARG:N	2.23	0.72
21:N:116:GLN:HB3	21:N:123:PHE:HB2	1.71	0.72
21:N:775:CYS:HB2	21:N:882:ILE:HA	1.71	0.72
22:O:64:ASN:C	22:O:66:VAL:H	1.97	0.72
22:O:266:PHE:HZ	22:O:274:ILE:HG12	1.55	0.72
23:P:38:GLN:HB3	23:P:62:ILE:HG12	1.70	0.72
23:P:422:LEU:CB	23:P:426:ILE:HG13	2.19	0.72
26:S:251:SER:HA	26:S:254:ILE:HD12	1.72	0.72
33:Z:783:VAL:O	33:Z:787:ASP:N	2.22	0.72
9:b:59:GLU:N	9:b:59:GLU:OE1	2.21	0.72
11:d:35:GLY:N	11:d:162:GLN:O	2.16	0.72
12:e:59:LEU:HD21	12:e:64:ILE:HD11	1.70	0.72
3:h:20:THR:HA	3:h:188:SER:OG	1.90	0.72
6:k:15:LEU:HD12	6:k:43:LEU:HD23	1.71	0.72
2:2:36:GLN:HE21	2:2:38:ILE:HD11	1.53	0.72
2:9:220:ARG:NH1	3:h:46:ALA:O	2.22	0.72
11:D:64:VAL:HG22	11:D:74:SER:HB3	1.70	0.72
18:K:212:TYR:O	18:K:340:PHE:N	2.22	0.72
18:K:342:SER:HB2	18:K:344:ARG:CZ	2.20	0.72
22:O:184:ASP:O	22:O:188:PHE:N	2.20	0.72
23:P:107:SER:CB	23:P:111:ASP:OD2	2.38	0.72
23:P:242:GLN:HE21	23:P:246:GLN:HG3	1.53	0.72
25:R:249:ILE:O	25:R:253:ALA:N	2.21	0.72
26:S:17:ASP:HA	26:S:20:HIS:HD2	1.55	0.72
26:S:211:ARG:HH21	26:S:240:ASP:HB3	1.55	0.72
30:W:162:ASN:HD21	30:W:165:GLN:HA	1.55	0.72
11:d:64:VAL:HG22	11:d:74:SER:HB3	1.70	0.72
12:e:71:ASP:OD1	12:e:72:ARG:N	2.23	0.72
1:1:77:ALA:HB3	2:2:168:VAL:HG13	1.72	0.72
3:3:109:LYS:HA	3:3:112:LEU:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:139:TYR:HD2	6:6:168:LEU:HD23	1.52	0.72
6:6:146:HIS:ND1	7:l:279:GLU:OE2	2.23	0.72
2:9:76:ILE:N	2:9:84:VAL:O	2.22	0.72
8:A:14:ARG:HG2	8:A:26:TYR:CG	2.23	0.72
11:D:169:LYS:HE3	11:D:173:GLU:OE2	1.90	0.72
11:D:226:SER:O	11:D:230:ASN:N	2.19	0.72
14:G:240:ILE:O	14:G:244:GLN:N	2.19	0.72
21:N:405:LEU:HD11	21:N:442:LEU:HD12	1.72	0.72
21:N:441:VAL:O	21:N:445:GLY:N	2.20	0.72
21:N:612:SER:OG	21:N:614:ASN:O	2.06	0.72
22:O:250:TRP:O	22:O:254:LEU:N	2.23	0.72
22:O:254:LEU:O	22:O:258:LEU:N	2.22	0.72
22:O:367:LYS:HA	22:O:370:LEU:HB2	1.71	0.72
24:Q:126:LYS:HE2	24:Q:134:LYS:HZ2	1.54	0.72
24:Q:185:TYR:O	24:Q:190:ASN:N	2.22	0.72
24:Q:298:ALA:O	24:Q:302:VAL:N	2.20	0.72
24:Q:391:ASP:CB	24:Q:394:ASN:HB2	2.17	0.72
25:R:77:SER:HB3	25:R:90:GLU:HA	1.72	0.72
27:T:9:LYS:HA	27:T:12:SER:HB3	1.72	0.72
27:T:110:LEU:HD23	27:T:113:LEU:HD12	1.72	0.72
29:V:108:TYR:HD1	29:V:108:TYR:C	1.97	0.72
33:Z:381:LEU:HA	33:Z:410:THR:HG22	1.70	0.72
33:Z:455:ILE:HB	33:Z:474:LEU:HD13	1.70	0.72
33:Z:534:PHE:HB2	33:Z:573:LEU:HD22	1.72	0.72
8:a:19:PHE:HB3	8:a:23:GLY:HA2	1.71	0.72
14:g:234:ASP:O	14:g:238:GLU:N	2.17	0.72
4:i:203:ASP:OD1	4:i:218:ASN:N	2.22	0.72
6:k:155:GLU:HA	6:k:158:LEU:HD12	1.69	0.72
1:1:79:ASP:HB3	1:1:124:TYR:HB3	1.72	0.72
9:B:43:VAL:HG23	9:B:145:PHE:HB3	1.71	0.72
12:E:37:ALA:N	12:E:172:ILE:O	2.22	0.72
15:H:162:ARG:HD2	20:M:75:LEU:HD11	1.70	0.72
15:H:224:VAL:HA	15:H:243:PRO:HD2	1.71	0.72
16:I:418:GLN:HB3	16:I:422:ARG:NH1	2.05	0.72
21:N:779:GLU:HG2	21:N:866:TYR:CE1	2.25	0.72
23:P:415:TRP:HE1	29:V:241:THR:HG21	1.55	0.72
23:P:422:LEU:HB3	23:P:426:ILE:HD12	1.70	0.72
24:Q:394:ASN:HB3	24:Q:396:TRP:CE2	2.23	0.72
25:R:190:LYS:O	25:R:194:VAL:N	2.17	0.72
25:R:292:LEU:HB3	25:R:307:TYR:HB3	1.72	0.72
28:U:305:ARG:NH1	28:U:307:LYS:HG2	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:480:ASN:O	33:Z:486:SER:OG	2.07	0.72
9:b:97:TYR:HE1	9:b:103:GLU:HG3	1.54	0.72
10:c:158:THR:OG1	10:c:160:TRP:NE1	2.23	0.72
11:d:101:GLU:OE2	7:l:156:LYS:HE2	1.90	0.72
11:d:203:VAL:HG11	11:d:210:ILE:HG13	1.69	0.72
3:h:30:GLY:HA2	3:h:126:LYS:HG2	1.71	0.72
3:3:30:GLY:HA2	3:3:126:LYS:HG2	1.71	0.72
5:5:104:PHE:HA	5:5:126:LEU:HD22	1.70	0.72
6:6:92:ILE:HA	6:6:97:PRO:HB3	1.72	0.72
7:7:126:ASP:O	7:7:130:TRP:HB2	1.89	0.72
7:7:191:ASP:OD1	7:7:195:THR:N	2.17	0.72
7:7:253:TYR:HA	7:7:261:ILE:O	1.90	0.72
1:8:79:ASP:HB3	1:8:124:TYR:HB3	1.72	0.72
10:C:194:LEU:HD12	10:C:242:THR:HG21	1.71	0.72
13:F:13:PHE:H	14:G:23:GLN:HE22	1.36	0.72
14:G:33:ASN:HA	14:G:167:LYS:HZ3	1.53	0.72
16:I:126:PRO:HB2	16:I:128:TYR:HE2	1.55	0.72
20:M:250:GLN:O	20:M:253:GLN:NE2	2.23	0.72
21:N:87:ASP:OD1	21:N:88:ARG:N	2.21	0.72
21:N:321:LEU:HG	21:N:323:GLY:N	2.04	0.72
21:N:772:GLN:HA	21:N:869:ASP:HB2	1.70	0.72
24:Q:71:LYS:NZ	24:Q:109:ASP:OD1	2.22	0.72
24:Q:390:LEU:HD12	25:R:344:SER:HB2	1.70	0.72
26:S:356:ASP:HB2	26:S:359:LYS:HE3	1.69	0.72
26:S:411:LEU:C	26:S:414:ASP:H	1.98	0.72
28:U:140:ILE:C	28:U:153:THR:CA	2.63	0.72
30:W:16:SER:HA	30:W:25:ARG:HB3	1.71	0.72
8:a:148:GLU:OE2	4:i:104:ARG:NH1	2.23	0.72
11:d:169:LYS:HE3	11:d:173:GLU:OE2	1.90	0.72
12:e:151:ASP:OD2	12:e:154:GLN:NE2	2.23	0.72
4:i:96:SER:O	4:i:100:SER:N	2.23	0.72
11:D:94:GLN:HA	11:D:97:ARG:HD3	1.70	0.71
12:E:44:GLU:OE1	12:E:193:LEU:N	2.23	0.71
20:M:71:ASN:HA	29:V:75:GLY:HA3	1.69	0.71
20:M:339:ARG:HB3	20:M:342:ARG:HB2	1.72	0.71
24:Q:8:LEU:CB	24:Q:50:ARG:HH12	2.01	0.71
25:R:258:LEU:HD12	25:R:266:LEU:HD13	1.72	0.71
26:S:343:LEU:HG	26:S:347:HIS:CE1	2.25	0.71
28:U:56:PHE:HD1	28:U:68:LEU:HB2	1.55	0.71
33:Z:202:ARG:HH11	33:Z:205:LEU:HD13	1.53	0.71
4:i:205:CYS:HA	4:i:215:TYR:HA	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:122:GLY:HA3	7:l:172:MET:HA	1.72	0.71
2:2:194:ARG:N	2:2:197:ASP:OD2	2.20	0.71
6:6:19:LYS:O	6:6:32:ASP:N	2.23	0.71
8:A:75:ILE:HD11	8:A:81:MET:HB3	1.71	0.71
10:C:197:LEU:O	10:C:201:THR:N	2.22	0.71
13:F:93:ASN:O	13:F:97:LEU:N	2.16	0.71
19:L:365:THR:HB	19:L:370:LYS:HZ2	1.53	0.71
20:M:280:ILE:HB	20:M:325:ALA:HA	1.70	0.71
22:O:294:MET:O	22:O:298:GLU:N	2.23	0.71
23:P:108:LYS:O	23:P:111:ASP:CA	2.38	0.71
23:P:144:VAL:HA	23:P:147:LYS:HB2	1.70	0.71
23:P:157:ALA:HA	23:P:186:LEU:HD13	1.70	0.71
24:Q:262:LEU:HA	24:Q:265:MET:HB3	1.71	0.71
24:Q:424:ASP:OD2	25:R:413:LYS:HD3	1.90	0.71
25:R:263:ARG:HE	25:R:297:TYR:HE1	1.35	0.71
25:R:307:TYR:O	25:R:311:THR:N	2.20	0.71
25:R:398:ALA:O	25:R:402:LEU:N	2.19	0.71
26:S:410:LYS:HD2	26:S:413:LEU:HD23	1.72	0.71
26:S:415:SER:HG	26:S:418:THR:HG1	1.38	0.71
26:S:452:TYR:HB3	26:S:457:PRO:HG3	1.72	0.71
33:Z:888:LEU:H	33:Z:900:LEU:HB3	1.54	0.71
11:d:169:LYS:O	11:d:173:GLU:N	2.21	0.71
14:g:130:ARG:NH1	14:g:131:PRO:O	2.23	0.71
14:g:170:GLN:HG3	14:g:173:LYS:HZ2	1.55	0.71
4:i:192:ILE:HG23	4:i:199:GLY:HA2	1.72	0.71
4:i:249:ILE:HD12	5:j:48:HIS:HA	1.71	0.71
6:6:37:GLN:O	6:6:61:GLN:NE2	2.23	0.71
1:8:171:ASN:OD1	1:8:178:GLN:NE2	2.22	0.71
8:A:158:ASP:OD2	8:A:162:TYR:HB3	1.90	0.71
12:E:168:ASN:HB3	12:E:187:TRP:CE2	2.25	0.71
13:F:137:TYR:CZ	13:F:218:LYS:HA	2.26	0.71
15:H:270:THR:HG21	15:H:301:LYS:HD3	1.72	0.71
16:I:103:PRO:HB2	17:J:96:VAL:HG12	1.71	0.71
16:I:169:SER:HB3	16:I:263:LEU:HB3	1.72	0.71
16:I:188:GLU:HA	16:I:191:ILE:HB	1.71	0.71
16:I:415:ASP:O	16:I:419:ALA:N	2.20	0.71
17:J:338:THR:HB	17:J:378:THR:HA	1.72	0.71
18:K:303:MET:HE2	18:K:333:ARG:HB3	1.72	0.71
21:N:308:ASN:ND2	21:N:873:ARG:HH12	1.87	0.71
22:O:31:LYS:HG2	22:O:35:GLU:OE2	1.90	0.71
22:O:266:PHE:O	22:O:269:LEU:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:395:ARG:NH1	24:Q:361:HIS:HB3	2.05	0.71
24:Q:417:GLY:C	24:Q:421:LYS:NZ	2.45	0.71
25:R:78:ASP:N	25:R:82:ASP:O	2.22	0.71
25:R:398:ALA:HA	25:R:401:HIS:HB3	1.71	0.71
29:V:58:VAL:HB	29:V:62:THR:HG21	1.72	0.71
32:Y:84:TYR:O	32:Y:88:ASN:N	2.21	0.71
33:Z:106:TRP:CZ3	33:Z:198:GLU:HB2	2.25	0.71
9:b:218:ASN:OD1	9:b:236:ARG:NH2	2.22	0.71
4:i:51:GLN:HG3	4:i:56:ALA:HB2	1.72	0.71
6:k:92:ILE:HA	6:k:97:PRO:HB3	1.72	0.71
3:3:20:THR:HA	3:3:188:SER:HA	1.73	0.71
4:4:36:LYS:HA	4:4:41:VAL:HA	1.73	0.71
4:4:96:SER:O	4:4:100:SER:N	2.23	0.71
1:8:82:ALA:O	1:8:86:ARG:N	2.17	0.71
10:C:158:THR:OG1	10:C:160:TRP:NE1	2.23	0.71
10:C:193:ALA:O	10:C:197:LEU:N	2.16	0.71
12:E:16:SER:N	12:E:20:ARG:O	2.20	0.71
12:E:201:LEU:HD21	12:E:243:LEU:HD21	1.73	0.71
15:H:242:PRO:HD2	15:H:347:GLY:HA2	1.72	0.71
16:I:222:TYR:N	16:I:348:ILE:O	2.22	0.71
18:K:304:ASP:HA	18:K:333:ARG:HE	1.55	0.71
18:K:371:LEU:HB3	18:K:375:ASN:HD22	1.55	0.71
19:L:109:MET:HB3	19:L:118:ILE:HG22	1.72	0.71
21:N:536:ILE:O	21:N:540:LEU:N	2.17	0.71
22:O:179:PHE:HB3	22:O:188:PHE:HB2	1.72	0.71
23:P:133:GLU:HA	23:P:136:ARG:CG	2.20	0.71
23:P:394:ASN:HD22	23:P:397:ALA:HB2	1.55	0.71
24:Q:174:LEU:O	24:Q:178:HIS:ND1	2.22	0.71
25:R:76:GLN:HB2	25:R:87:SER:HB2	1.70	0.71
26:S:291:GLU:O	26:S:295:ALA:N	2.22	0.71
26:S:461:PHE:O	26:S:465:ILE:N	2.16	0.71
27:T:149:ASP:HA	27:T:152:LEU:HB2	1.71	0.71
28:U:38:LEU:N	28:U:50:ASN:O	2.22	0.71
29:V:107:TRP:N	29:V:137:VAL:O	2.23	0.71
6:k:37:GLN:O	6:k:61:GLN:NE2	2.23	0.71
7:l:152:ALA:O	7:l:196:ARG:NH2	2.24	0.71
4:4:245:SER:O	5:5:197:LYS:N	2.21	0.71
6:6:15:LEU:HD12	6:6:43:LEU:HD23	1.72	0.71
7:7:152:ALA:O	7:7:196:ARG:NH2	2.24	0.71
2:9:135:GLN:HB3	2:9:139:LYS:HZ2	1.53	0.71
11:D:193:LYS:HZ3	11:D:239:GLU:CD	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:198:SER:HA	13:F:201:LEU:HD12	1.71	0.71
15:H:242:PRO:HG3	15:H:350:LYS:NZ	2.05	0.71
21:N:69:TYR:HE2	21:N:81:TYR:HD2	1.37	0.71
21:N:762:ARG:HD3	21:N:767:ALA:H	1.54	0.71
22:O:233:LEU:HD12	22:O:236:HIS:CD2	2.25	0.71
26:S:352:VAL:HG13	26:S:387:VAL:HG21	1.73	0.71
27:T:51:TYR:HA	27:T:55:LEU:HB3	1.73	0.71
28:U:30:ASN:HD21	28:U:31:LYS:HZ2	1.38	0.71
29:V:108:TYR:C	29:V:108:TYR:CD1	2.63	0.71
29:V:121:VAL:O	29:V:125:THR:N	2.17	0.71
31:X:85:ARG:HB3	31:X:101:LEU:HD13	1.71	0.71
32:Y:65:ASP:H	32:Y:67:VAL:H	1.39	0.71
8:a:75:ILE:HD11	8:a:81:MET:HB3	1.71	0.71
12:e:201:LEU:HG	12:e:243:LEU:HD11	1.72	0.71
4:i:96:SER:OG	4:i:101:ARG:O	2.09	0.71
9:B:33:THR:OG1	9:B:167:GLY:N	2.16	0.71
17:J:172:GLU:O	17:J:176:SER:N	2.16	0.71
17:J:212:ARG:HB3	17:J:248:ASP:OD2	1.91	0.71
21:N:545:SER:OG	21:N:580:ASN:ND2	2.22	0.71
26:S:24:LYS:O	26:S:26:ALA:C	2.33	0.71
26:S:160:ARG:HH12	26:S:206:GLN:HG2	1.56	0.71
26:S:171:TYR:HB3	26:S:175:SER:HB3	1.73	0.71
28:U:24:ARG:CZ	29:V:100:ARG:HA	2.20	0.71
10:c:218:LYS:HE3	10:c:223:GLY:HA2	1.71	0.71
11:d:67:ILE:HG21	11:d:109:LEU:HD11	1.71	0.71
13:f:137:TYR:CZ	13:f:218:LYS:HA	2.26	0.71
1:1:142:TYR:HB3	1:1:144:PHE:HE1	1.55	0.71
5:5:149:MET:HE3	5:5:153:LEU:HD11	1.72	0.71
1:8:213:ARG:O	4:i:55:VAL:N	2.17	0.71
2:9:61:GLY:N	2:9:69:PHE:O	2.24	0.71
8:A:72:ILE:HA	8:A:82:VAL:HA	1.72	0.71
17:J:71:TYR:HA	18:K:118:TYR:CD1	2.25	0.71
18:K:157:SER:HA	18:K:159:SER:N	2.05	0.71
19:L:71:ASP:O	19:L:75:LYS:N	2.22	0.71
22:O:219:ILE:HD13	22:O:251:LEU:HD21	1.73	0.71
22:O:383:LYS:HD2	22:O:387:ARG:HE	1.55	0.71
23:P:268:LEU:O	23:P:271:SER:OG	2.08	0.71
30:W:120:ASP:OD1	30:W:121:SER:N	2.24	0.71
9:b:173:THR:HG22	9:b:177:LYS:NZ	2.06	0.71
3:h:118:VAL:N	3:h:130:TYR:O	2.22	0.71
4:i:80:ASP:OD2	4:i:124:GLY:N	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j:189:ILE:HB	5:j:196:VAL:HB	1.71	0.71
6:k:142:SER:O	6:k:146:HIS:N	2.23	0.71
8:A:131:ARG:HH11	9:B:127:VAL:HG12	1.56	0.71
10:C:15:PRO:HA	11:D:22:TYR:CE1	2.25	0.71
10:C:218:LYS:HE3	10:C:223:GLY:HA2	1.71	0.71
12:E:151:ASP:OD2	12:E:154:GLN:NE2	2.23	0.71
16:I:217:LYS:NZ	16:I:313:LEU:HG	2.06	0.71
18:K:329:LEU:HD23	18:K:334:LEU:HD23	1.70	0.71
19:L:92:GLU:C	19:L:96:LYS:HZ3	1.99	0.71
21:N:18:ASP:O	21:N:22:THR:N	2.15	0.71
21:N:136:ILE:HD13	21:N:139:ARG:HD3	1.72	0.71
21:N:255:ALA:O	21:N:259:PHE:N	2.23	0.71
21:N:340:HIS:HB3	21:N:374:ILE:HG23	1.72	0.71
21:N:539:MET:HA	21:N:547:LEU:HB3	1.71	0.71
23:P:392:LYS:HE2	23:P:394:ASN:HB2	1.73	0.71
23:P:417:HIS:HA	23:P:420:ASP:CG	2.15	0.71
24:Q:28:LEU:HG	24:Q:32:ASP:OD2	1.90	0.71
24:Q:409:TYR:CE1	25:R:403:LEU:HA	2.26	0.71
25:R:147:LYS:CE	25:R:177:LEU:O	2.37	0.71
25:R:338:TYR:HD1	25:R:341:LEU:HD12	1.56	0.71
27:T:66:ALA:HA	27:T:78:PHE:HA	1.71	0.71
30:W:131:THR:HA	30:W:134:LYS:HD2	1.73	0.71
33:Z:348:LEU:HD13	33:Z:921:GLU:HB2	1.72	0.71
33:Z:916:LEU:HB2	33:Z:982:ILE:HG12	1.71	0.71
5:j:70:LYS:NZ	5:j:94:SER:OG	2.24	0.71
6:k:19:LYS:O	6:k:32:ASP:N	2.22	0.71
7:l:172:MET:H	7:l:192:SER:HB3	1.55	0.71
3:3:58:ASP:O	3:3:61:TRP:NE1	2.23	0.71
4:4:68:PRO:O	9:B:224:TYR:HB3	1.91	0.71
5:5:38:ASN:HD21	7:l:285:VAL:HA	1.54	0.71
10:C:168:ASN:ND2	10:C:200:THR:O	2.24	0.71
12:E:179:ALA:HB2	12:E:207:VAL:HG11	1.73	0.71
13:F:84:LEU:O	13:F:88:LEU:N	2.20	0.71
14:G:44:ASP:OD2	14:G:220:SER:OG	2.09	0.71
15:H:169:GLU:HG2	15:H:170:GLU:HG3	1.73	0.71
20:M:274:ALA:HB1	20:M:320:ARG:HB3	1.73	0.71
21:N:525:ASN:OD1	21:N:528:ARG:NH1	2.24	0.71
22:O:15:ARG:NH2	30:W:145:GLY:C	2.49	0.71
22:O:82:LEU:H	22:O:85:SER:HB3	1.56	0.71
23:P:392:LYS:N	23:P:401:ASN:O	2.24	0.71
24:Q:293:SER:HB2	24:Q:324:GLU:OE2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:301:TYR:CE2	25:R:357:PHE:HB3	2.25	0.71
28:U:37:ILE:HG12	28:U:91:GLY:C	2.16	0.71
30:W:101:ARG:NE	30:W:106:GLN:O	2.17	0.71
33:Z:887:GLY:HA3	33:Z:903:MET:HE1	1.73	0.71
8:a:243:GLU:CD	8:a:244:ARG:NH1	2.41	0.71
13:f:84:LEU:O	13:f:88:LEU:N	2.20	0.71
14:g:96:ALA:O	14:g:100:LYS:N	2.22	0.71
4:i:75:ALA:O	4:i:126:TYR:N	2.23	0.71
5:j:143:SER:HA	5:j:146:LEU:HD12	1.71	0.71
1:1:106:ASN:ND2	12:e:104:ASP:OD2	2.23	0.71
4:4:205:CYS:HA	4:4:215:TYR:HA	1.72	0.71
1:8:142:TYR:HB3	1:8:144:PHE:HE1	1.56	0.71
8:A:19:PHE:HB3	8:A:23:GLY:HA2	1.71	0.71
11:D:133:THR:HG1	11:D:150:THR:HG1	1.32	0.71
14:G:123:HIS:CE1	14:G:132:PHE:CE1	2.79	0.71
15:H:176:VAL:N	15:H:189:PRO:HG3	2.03	0.71
17:J:363:THR:O	17:J:367:MET:N	2.19	0.71
19:L:131:VAL:HG11	19:L:137:ARG:HG2	1.72	0.71
23:P:45:LYS:HG3	23:P:51:ASP:HB3	1.72	0.71
23:P:282:HIS:O	23:P:286:ASN:HB3	1.89	0.71
23:P:420:ASP:O	23:P:424:GLU:N	2.21	0.71
24:Q:158:ILE:O	24:Q:162:LEU:N	2.20	0.71
24:Q:253:ASN:HD21	24:Q:258:ALA:H	1.39	0.71
26:S:464:ARG:HG3	28:U:281:LEU:HD21	1.72	0.71
29:V:57:PHE:HA	29:V:62:THR:O	1.90	0.71
29:V:140:VAL:N	29:V:154:ASP:O	2.23	0.71
30:W:87:MET:O	30:W:91:LEU:N	2.21	0.71
32:Y:81:LEU:HA	32:Y:84:TYR:HB3	1.72	0.71
33:Z:501:LYS:NZ	33:Z:537:THR:OG1	2.23	0.71
11:d:108:TYR:HD1	11:d:111:ARG:HH21	1.37	0.71
12:e:168:ASN:HB3	12:e:187:TRP:CE2	2.25	0.71
1:1:92:LYS:HZ3	13:f:93:ASN:HB2	1.52	0.70
2:2:127:GLU:HG2	13:f:100:ASN:HB2	1.71	0.70
3:3:118:VAL:N	3:3:130:TYR:O	2.22	0.70
4:4:75:ALA:O	4:4:126:TYR:N	2.23	0.70
9:B:59:GLU:N	9:B:59:GLU:OE1	2.21	0.70
15:H:287:GLY:O	15:H:291:VAL:N	2.17	0.70
17:J:114:CYS:O	17:J:123:HIS:N	2.24	0.70
17:J:335:MET:HE1	17:J:366:GLY:HA3	1.73	0.70
18:K:99:PHE:HB3	18:K:135:MET:H	1.56	0.70
21:N:241:LEU:HA	21:N:244:LYS:HE3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:263:HIS:O	23:P:266:TYR:HB3	1.90	0.70
24:Q:267:LEU:HG	24:Q:271:MET:HG3	1.72	0.70
25:R:377:LEU:HB3	25:R:379:CYS:HB3	1.73	0.70
26:S:239:ARG:NH1	26:S:243:ASN:HD21	1.88	0.70
28:U:122:ILE:N	28:U:135:ASP:O	2.23	0.70
29:V:23:THR:HB	29:V:164:LEU:HD23	1.73	0.70
29:V:241:THR:CB	29:V:297:THR:HG21	2.19	0.70
29:V:247:ILE:HA	29:V:250:GLN:HB2	1.73	0.70
30:W:16:SER:HB3	30:W:26:PHE:HB2	1.71	0.70
33:Z:509:LEU:HA	33:Z:512:ILE:HB	1.71	0.70
11:d:169:LYS:NZ	11:d:172:ARG:HD2	2.05	0.70
12:e:213:ASP:OD1	12:e:216:ASN:N	2.19	0.70
3:h:15:GLU:HB3	4:i:145:HIS:HB2	1.73	0.70
5:j:160:PRO:O	5:j:164:PHE:N	2.24	0.70
6:k:13:VAL:N	6:k:184:VAL:O	2.23	0.70
3:3:18:LEU:HA	3:3:39:THR:HG22	1.71	0.70
4:4:192:ILE:HG23	4:4:199:GLY:HA2	1.72	0.70
5:5:70:LYS:NZ	5:5:94:SER:OG	2.24	0.70
5:5:103:TYR:HA	6:6:93:ARG:NH2	2.01	0.70
1:8:46:THR:O	1:8:59:GLU:N	2.24	0.70
1:8:214:HIS:HE1	4:i:53:PRO:HB2	1.55	0.70
14:G:85:GLY:O	14:G:89:VAL:N	2.22	0.70
16:I:384:LYS:HG2	16:I:420:LYS:HD2	1.73	0.70
19:L:166:LEU:HA	19:L:170:MET:HB2	1.72	0.70
20:M:278:ILE:O	20:M:324:LEU:N	2.18	0.70
22:O:91:ASP:H	22:O:94:GLU:CD	1.99	0.70
24:Q:122:ILE:HA	24:Q:134:LYS:HB2	1.72	0.70
24:Q:418:GLN:HG3	29:V:262:THR:HG22	1.73	0.70
26:S:383:LEU:HA	26:S:386:ASN:HB2	1.73	0.70
28:U:41:ALA:HA	28:U:46:ILE:HG23	1.73	0.70
29:V:40:HIS:CD2	29:V:49:VAL:HB	2.26	0.70
33:Z:304:PRO:O	33:Z:308:LYS:N	2.23	0.70
12:e:44:GLU:OE1	12:e:193:LEU:N	2.23	0.70
12:e:99:HIS:O	12:e:103:TYR:N	2.17	0.70
14:g:44:ASP:OD2	14:g:220:SER:OG	2.09	0.70
1:1:134:ASP:N	1:1:138:LYS:O	2.23	0.70
10:C:195:LYS:NZ	10:C:244:ILE:HG13	2.06	0.70
11:D:127:ARG:HH12	11:D:129:PHE:HA	1.57	0.70
15:H:311:ILE:HD13	15:H:353:PHE:HB3	1.72	0.70
17:J:292:MET:HB2	17:J:310:ILE:HD11	1.72	0.70
18:K:210:LEU:O	18:K:338:ILE:N	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:214:PRO:O	18:K:217:THR:OG1	2.07	0.70
18:K:242:PHE:HB3	18:K:295:ILE:HD13	1.72	0.70
19:L:360:ILE:O	19:L:364:HIS:N	2.19	0.70
21:N:52:ASP:O	21:N:58:ARG:HD3	1.90	0.70
21:N:563:GLY:HA2	21:N:594:VAL:HG12	1.73	0.70
21:N:683:LEU:HA	21:N:686:ILE:HB	1.73	0.70
22:O:26:PHE:O	22:O:58:ARG:NH2	2.25	0.70
22:O:362:GLN:HB3	28:U:230:GLN:HE22	1.56	0.70
23:P:125:VAL:O	23:P:139:VAL:HB	1.92	0.70
24:Q:154:SER:O	24:Q:158:ILE:N	2.19	0.70
24:Q:415:LEU:O	24:Q:418:GLN:N	2.24	0.70
25:R:406:GLN:HA	25:R:406:GLN:NE2	2.05	0.70
30:W:2:VAL:O	30:W:47:ASN:ND2	2.23	0.70
14:g:12:ASN:OD1	14:g:21:ASN:ND2	2.24	0.70
14:g:85:GLY:O	14:g:89:VAL:N	2.22	0.70
14:g:220:SER:HG	14:g:222:SER:HG	1.38	0.70
4:i:36:LYS:HA	4:i:41:VAL:HA	1.73	0.70
5:j:117:GLY:HA2	5:j:192:LYS:HD3	1.72	0.70
1:1:23:PRO:HD3	2:2:140:MET:HE1	1.71	0.70
1:8:22:ASN:ND2	1:8:24:TYR:O	2.24	0.70
1:8:54:ILE:O	2:9:189:ARG:NH2	2.24	0.70
2:9:42:THR:HG23	2:9:74:ARG:CZ	2.22	0.70
2:9:42:THR:HG22	2:9:74:ARG:CZ	2.21	0.70
9:B:173:THR:HG22	9:B:177:LYS:NZ	2.06	0.70
14:G:41:LYS:HA	14:G:46:VAL:HG12	1.72	0.70
15:H:55:ASP:HB3	15:H:59:ILE:HD12	1.73	0.70
15:H:295:PHE:HB3	15:H:343:PHE:HE1	1.56	0.70
19:L:98:LEU:HD13	20:M:71:ASN:HD21	1.56	0.70
19:L:377:GLU:O	19:L:381:LYS:N	2.19	0.70
22:O:83:LEU:HD21	22:O:102:LEU:HD12	1.73	0.70
22:O:310:PHE:CZ	22:O:341:ILE:HG23	2.22	0.70
22:O:384:MET:HG3	28:U:190:LEU:HB2	1.73	0.70
24:Q:285:LYS:O	24:Q:289:GLU:N	2.24	0.70
24:Q:294:ARG:O	24:Q:298:ALA:N	2.16	0.70
26:S:390:THR:HG23	26:S:393:ARG:NH2	2.06	0.70
27:T:46:ILE:HG22	27:T:48:ASN:H	1.55	0.70
30:W:37:PHE:HE1	30:W:67:ALA:O	1.75	0.70
33:Z:131:LYS:HG2	33:Z:135:LEU:HD22	1.72	0.70
33:Z:198:GLU:HA	33:Z:201:LEU:HB2	1.73	0.70
33:Z:328:ASP:OD1	33:Z:463:HIS:NE2	2.23	0.70
9:b:239:THR:OG1	9:b:242:GLU:N	2.17	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:230:ASN:HA	11:d:233:VAL:HB	1.74	0.70
1:1:89:ASN:HD21	13:f:93:ASN:HD21	1.36	0.70
1:8:122:PHE:HZ	2:9:137:ARG:NH1	1.89	0.70
1:8:134:ASP:N	1:8:138:LYS:O	2.23	0.70
1:8:174:ASN:HB3	1:8:176:LYS:HE3	1.72	0.70
8:A:73:PHE:N	8:A:81:MET:O	2.15	0.70
11:D:108:TYR:HD1	11:D:111:ARG:HH21	1.37	0.70
11:D:230:ASN:HA	11:D:233:VAL:HB	1.74	0.70
17:J:57:PHE:HA	17:J:60:ASP:OD2	1.92	0.70
17:J:156:GLN:HE21	17:J:160:ILE:HG13	1.56	0.70
18:K:128:ARG:HG3	18:K:129:GLU:H	1.57	0.70
22:O:215:TYR:OH	22:O:247:ASN:ND2	2.21	0.70
23:P:115:ARG:HH22	23:P:146:ILE:HG13	1.56	0.70
23:P:168:TYR:C	23:P:170:SER:H	1.98	0.70
23:P:319:GLU:HB3	23:P:323:ASN:HB3	1.72	0.70
24:Q:379:GLN:HA	24:Q:382:LEU:HB3	1.73	0.70
25:R:61:PRO:HG3	25:R:144:ILE:HG22	1.73	0.70
25:R:384:VAL:HG23	26:S:402:ILE:HG22	1.71	0.70
27:T:34:LEU:HD13	27:T:58:THR:HG23	1.71	0.70
9:b:188:ALA:HA	9:b:191:ILE:HB	1.74	0.70
12:e:80:GLY:HA3	12:e:140:VAL:HA	1.73	0.70
14:g:123:HIS:CE1	14:g:132:PHE:CE1	2.79	0.70
1:1:114:HIS:O	1:1:118:GLY:N	2.25	0.70
1:1:174:ASN:HB3	1:1:176:LYS:HE3	1.72	0.70
10:C:4:ARG:HA	11:D:6:ARG:NH1	2.01	0.70
11:D:68:ASP:OD1	11:D:69:SER:N	2.25	0.70
11:D:169:LYS:NZ	11:D:172:ARG:HD2	2.05	0.70
12:E:95:ALA:O	12:E:99:HIS:N	2.21	0.70
14:G:123:HIS:CE1	14:G:132:PHE:HE1	2.09	0.70
15:H:207:THR:OG1	15:H:265:ASN:ND2	2.25	0.70
19:L:360:ILE:HG22	19:L:391:ILE:HG21	1.72	0.70
20:M:129:LEU:HD13	20:M:132:VAL:HG13	1.72	0.70
20:M:255:TYR:CD2	20:M:258:GLU:HB2	2.26	0.70
20:M:336:ALA:CB	20:M:342:ARG:HH11	2.05	0.70
21:N:527:GLY:N	21:N:557:LEU:O	2.17	0.70
21:N:535:LEU:HG	21:N:539:MET:HE2	1.74	0.70
21:N:892:PRO:HD3	21:N:905:LEU:HD12	1.72	0.70
22:O:96:LEU:O	22:O:99:LEU:HB3	1.91	0.70
23:P:160:LEU:O	23:P:183:GLN:NE2	2.18	0.70
23:P:248:ASP:HA	23:P:251:LYS:HB3	1.72	0.70
24:Q:61:LEU:HA	24:Q:64:LEU:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:110:ILE:HG22	25:R:114:ASN:HD21	1.56	0.70
26:S:343:LEU:O	26:S:347:HIS:N	2.14	0.70
28:U:79:MET:O	28:U:83:ILE:N	2.18	0.70
30:W:85:LEU:HG	30:W:87:MET:H	1.56	0.70
32:Y:71:ASP:O	32:Y:75:ASN:N	2.18	0.70
14:g:123:HIS:CE1	14:g:132:PHE:HE1	2.10	0.70
1:1:30:THR:HA	1:1:159:GLY:HA3	1.72	0.70
1:1:167:PRO:HG3	5:5:177:ARG:HG2	1.73	0.70
2:2:215:ARG:O	2:2:219:TYR:N	2.22	0.70
2:2:220:ARG:O	3:3:45:ILE:N	2.24	0.70
7:7:84:GLN:N	7:7:221:TRP:O	2.22	0.70
7:7:122:GLY:HA3	7:7:172:MET:HA	1.72	0.70
7:7:140:LEU:HG	7:7:144:ARG:HH12	1.55	0.70
10:C:155:GLY:O	11:D:83:ARG:NH2	2.24	0.70
11:D:161:ALA:H	12:E:58:LEU:HB3	1.54	0.70
12:E:154:GLN:HB3	12:E:156:PHE:CE2	2.27	0.70
15:H:101:ARG:HH22	16:I:125:MET:HE2	1.55	0.70
18:K:212:TYR:HB3	18:K:339:GLU:HG2	1.72	0.70
18:K:403:LEU:HB2	18:K:406:ASP:H	1.55	0.70
20:M:412:HIS:O	20:M:416:VAL:N	2.19	0.70
21:N:36:TRP:HE3	21:N:68:VAL:HG13	1.55	0.70
21:N:386:MET:O	21:N:390:LEU:N	2.24	0.70
21:N:533:ASP:HA	21:N:536:ILE:HB	1.74	0.70
21:N:890:PHE:HA	21:N:908:ARG:H	1.57	0.70
22:O:341:ILE:HB	23:P:357:TYR:HD1	1.57	0.70
22:O:382:LYS:NZ	22:O:383:LYS:HD3	2.07	0.70
23:P:287:ASP:O	23:P:289:ASN:ND2	2.25	0.70
24:Q:126:LYS:HG2	24:Q:134:LYS:HZ3	1.57	0.70
24:Q:335:PHE:HD1	24:Q:338:LEU:HD23	1.56	0.70
26:S:404:LEU:O	26:S:408:CYS:N	2.19	0.70
28:U:191:THR:O	28:U:194:LEU:N	2.24	0.70
30:W:142:ILE:HG23	30:W:174:VAL:HG21	1.73	0.70
10:c:49:GLU:HA	10:c:211:LEU:HD23	1.73	0.70
10:c:104:GLU:OE2	6:k:79:ALA:N	2.24	0.70
10:c:152:ASN:OD1	10:c:154:SER:OG	2.07	0.70
5:j:149:MET:HE3	5:j:153:LEU:HD11	1.72	0.70
7:l:253:TYR:HA	7:l:261:ILE:O	1.89	0.70
1:1:22:ASN:ND2	1:1:24:TYR:O	2.24	0.70
6:6:43:LEU:HB2	6:6:189:ILE:HD13	1.73	0.70
7:7:97:ALA:N	7:7:100:TRP:O	2.24	0.70
2:9:49:TYR:HB2	2:9:201:THR:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:121:MET:HA	8:A:124:LEU:HD13	1.73	0.70
11:D:67:ILE:HG21	11:D:109:LEU:HD11	1.71	0.70
11:D:160:SER:HB3	11:D:179:TYR:CE2	2.27	0.70
18:K:48:TYR:HB2	21:N:152:LEU:HG	1.74	0.70
18:K:128:ARG:HE	29:V:272:GLY:N	1.89	0.70
18:K:341:PRO:C	18:K:344:ARG:HH12	1.99	0.70
19:L:131:VAL:HA	19:L:155:ILE:HD12	1.72	0.70
20:M:245:LYS:HZ1	20:M:281:ASP:HB2	1.55	0.70
21:N:227:LYS:NZ	21:N:723:GLY:O	2.17	0.70
22:O:309:SER:HA	22:O:348:VAL:HG23	1.73	0.70
24:Q:151:TYR:HA	24:Q:154:SER:HB2	1.73	0.70
25:R:134:TRP:HE3	25:R:153:THR:HG23	1.56	0.70
25:R:154:LEU:HD21	25:R:170:VAL:HG13	1.74	0.70
25:R:414:LEU:HD22	26:S:471:LEU:HD11	1.71	0.70
26:S:234:ILE:O	26:S:238:LEU:N	2.18	0.70
28:U:133:PRO:HG2	29:V:212:MET:HE3	1.74	0.70
8:a:121:MET:HA	8:a:124:LEU:HD13	1.73	0.70
10:c:172:ALA:O	10:c:176:LEU:N	2.20	0.70
3:h:21:SER:OG	3:h:149:GLY:N	2.24	0.70
7:l:191:ASP:OD1	7:l:195:THR:N	2.17	0.70
3:3:159:LYS:NZ	3:h:176:HIS:HD2	1.89	0.70
5:5:117:GLY:HA2	5:5:192:LYS:HD3	1.72	0.70
1:8:114:HIS:O	1:8:118:GLY:N	2.25	0.70
10:C:146:TYR:OH	10:C:218:LYS:N	2.15	0.70
12:E:151:ASP:HB3	12:E:166:ARG:NH1	1.99	0.70
14:G:12:ASN:OD1	14:G:21:ASN:ND2	2.24	0.70
21:N:101:ILE:HA	21:N:104:LYS:HB3	1.74	0.70
23:P:177:ILE:HA	23:P:180:ILE:HD12	1.72	0.70
23:P:207:THR:HA	23:P:210:ASN:ND2	2.07	0.70
26:S:458:GLN:HA	26:S:461:PHE:HB2	1.73	0.70
26:S:471:LEU:CD2	28:U:292:ILE:HD11	2.06	0.70
27:T:265:ASP:O	27:T:269:SER:N	2.24	0.70
28:U:174:LEU:HD13	29:V:213:LEU:HD23	1.72	0.70
33:Z:444:GLU:HB3	33:Z:447:VAL:HG23	1.73	0.70
33:Z:567:ALA:HA	33:Z:587:THR:HG22	1.71	0.70
8:a:76:SER:OG	8:a:79:ILE:N	2.20	0.70
10:c:14:SER:N	10:c:18:ARG:O	2.21	0.70
11:d:68:ASP:OD1	11:d:69:SER:N	2.25	0.70
12:e:212:LEU:HD21	12:e:240:ILE:HG12	1.73	0.70
14:g:178:LYS:HB3	14:g:182:HIS:CE1	2.27	0.70
7:l:140:LEU:HG	7:l:144:ARG:HH12	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:49:TYR:HB2	2:2:201:THR:O	1.92	0.70
6:6:13:VAL:N	6:6:184:VAL:O	2.23	0.70
6:6:25:ILE:O	6:k:139:TYR:OH	2.09	0.70
8:A:177:GLU:O	8:A:180:THR:OG1	2.10	0.70
11:D:169:LYS:O	11:D:173:GLU:N	2.21	0.70
14:G:32:GLU:HG2	14:G:169:ARG:NH1	2.07	0.70
17:J:217:GLU:OE1	17:J:220:GLN:NE2	2.25	0.70
20:M:147:GLY:O	20:M:156:LEU:N	2.25	0.70
22:O:43:GLU:H	22:O:47:LYS:HB3	1.57	0.70
22:O:289:GLN:NE2	22:O:334:LEU:HD11	2.07	0.70
22:O:295:THR:O	22:O:299:THR:N	2.24	0.70
22:O:325:GLU:HB3	23:P:364:ARG:HH22	1.56	0.70
24:Q:239:PHE:HB3	24:Q:265:MET:HB2	1.74	0.70
30:W:67:ALA:HB3	30:W:68:GLU:CA	2.22	0.70
33:Z:307:HIS:CD2	33:Z:340:LEU:HB2	2.26	0.70
8:a:57:LYS:N	8:a:222:ASP:O	2.24	0.70
8:a:98:LYS:NZ	3:h:88:GLN:HA	2.05	0.70
10:c:85:GLU:HA	10:c:88:ILE:HB	1.74	0.70
12:e:45:GLY:HA2	12:e:153:TYR:CE1	2.26	0.70
12:e:46:VAL:HB	12:e:222:ILE:HG22	1.73	0.70
7:7:189:TYR:O	7:7:197:LEU:N	2.18	0.69
10:C:49:GLU:HA	10:C:211:LEU:HD23	1.73	0.69
12:E:80:GLY:HA3	12:E:140:VAL:HA	1.73	0.69
13:F:39:ARG:HD3	13:F:144:LEU:H	1.56	0.69
14:G:170:GLN:HG3	14:G:173:LYS:HZ2	1.55	0.69
15:H:426:ALA:HB3	15:H:443:PHE:CE1	2.27	0.69
19:L:173:PHE:N	19:L:243:PHE:O	2.21	0.69
19:L:189:GLN:HE21	19:L:348:GLU:HG3	1.57	0.69
20:M:17:GLU:HA	30:W:69:PHE:CZ	2.19	0.69
21:N:318:LYS:HZ2	21:N:348:PHE:CB	2.01	0.69
21:N:714:THR:N	21:N:754:THR:O	2.21	0.69
23:P:94:GLN:HG2	23:P:97:ILE:HD12	1.74	0.69
23:P:127:GLU:O	23:P:136:ARG:HD2	1.92	0.69
23:P:409:SER:N	23:P:410:GLN:OE1	2.25	0.69
24:Q:269:LYS:O	24:Q:273:ASN:N	2.25	0.69
31:X:78:ILE:HD13	31:X:88:ALA:HB2	1.72	0.69
33:Z:232:LYS:O	33:Z:236:PHE:N	2.26	0.69
11:d:160:SER:HB3	11:d:179:TYR:CE2	2.27	0.69
12:e:154:GLN:HB3	12:e:156:PHE:CE2	2.27	0.69
14:g:32:GLU:HG2	14:g:169:ARG:NH1	2.07	0.69
7:l:76:THR:O	7:l:206:SER:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:46:TYR:OH	5:5:64:ASN:O	2.09	0.69
14:G:66:LYS:N	14:G:215:GLU:OE1	2.25	0.69
15:H:69:VAL:HG11	16:I:152:LYS:HE2	1.73	0.69
17:J:190:PRO:O	17:J:195:LYS:NZ	2.26	0.69
17:J:265:ASP:O	17:J:269:GLN:N	2.18	0.69
19:L:123:SER:HB2	20:M:125:GLN:HG2	1.74	0.69
21:N:9:LEU:HB3	21:N:28:ILE:HG12	1.73	0.69
21:N:714:THR:O	21:N:754:THR:N	2.25	0.69
22:O:282:GLN:OE1	22:O:282:GLN:N	2.22	0.69
23:P:128:ASN:HA	23:P:136:ARG:HH11	1.57	0.69
24:Q:164:GLU:O	24:Q:169:ASP:N	2.24	0.69
24:Q:285:LYS:O	24:Q:290:THR:N	2.24	0.69
26:S:239:ARG:HA	26:S:242:LEU:HB2	1.73	0.69
26:S:421:TYR:HB3	27:T:156:SER:HA	1.72	0.69
27:T:61:ILE:O	27:T:65:GLY:N	2.22	0.69
27:T:239:SER:HB3	27:T:241:GLU:OE2	1.91	0.69
3:h:58:ASP:O	3:h:61:TRP:NE1	2.23	0.69
1:1:185:GLY:HA3	4:4:240:ALA:HB2	1.74	0.69
2:2:61:GLY:N	2:2:69:PHE:O	2.24	0.69
4:4:30:THR:O	4:4:158:SER:N	2.25	0.69
4:4:177:LYS:HE3	4:4:206:VAL:HG11	1.73	0.69
6:6:82:SER:HA	6:6:125:LYS:HZ3	1.57	0.69
6:6:142:SER:O	6:6:146:HIS:N	2.23	0.69
8:A:57:LYS:N	8:A:222:ASP:O	2.24	0.69
12:E:214:GLU:HG3	12:E:233:ASN:HB3	1.74	0.69
13:F:117:GLN:O	13:F:120:THR:OG1	2.09	0.69
13:F:187:ASP:OD1	13:F:233:TYR:OH	2.10	0.69
14:G:234:ASP:O	14:G:238:GLU:N	2.17	0.69
15:H:210:ASP:HA	15:H:388:ILE:HG12	1.74	0.69
16:I:387:LEU:HD13	16:I:391:ASP:HB3	1.72	0.69
17:J:85:LEU:HA	17:J:95:ILE:HA	1.73	0.69
17:J:149:MET:HA	17:J:330:ILE:HG21	1.72	0.69
18:K:253:MET:O	18:K:257:VAL:N	2.26	0.69
19:L:174:GLU:HA	19:L:242:ASN:HA	1.73	0.69
20:M:177:THR:HA	20:M:237:ALA:HB2	1.73	0.69
21:N:75:TYR:O	21:N:79:VAL:N	2.18	0.69
21:N:95:SER:HB2	26:S:219:LYS:HZ1	1.55	0.69
21:N:451:GLY:O	21:N:455:MET:N	2.25	0.69
21:N:495:PRO:HA	21:N:498:ILE:HD12	1.74	0.69
25:R:58:GLU:HB3	25:R:105:LYS:HD2	1.72	0.69
25:R:247:GLU:OE2	25:R:285:ALA:HB1	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:1:MET:N	26:S:3:SER:OG	2.25	0.69
26:S:143:GLN:HG3	26:S:148:ASP:CG	2.17	0.69
28:U:137:TYR:CE1	28:U:156:HIS:HB2	2.24	0.69
8:a:72:ILE:HA	8:a:82:VAL:HA	1.72	0.69
10:c:44:ILE:N	10:c:216:ILE:O	2.19	0.69
13:f:11:VAL:HG23	14:g:130:ARG:H	1.56	0.69
13:f:39:ARG:HD3	13:f:144:LEU:H	1.56	0.69
4:i:77:THR:HG22	4:i:80:ASP:H	1.56	0.69
4:i:245:SER:O	5:j:197:LYS:N	2.22	0.69
5:j:54:THR:OG1	5:j:139:SER:OG	2.10	0.69
4:4:51:GLN:HG3	4:4:56:ALA:HB2	1.72	0.69
5:5:11:ILE:HD13	5:5:142:ALA:HB3	1.75	0.69
6:6:157:GLY:O	6:6:161:LEU:N	2.20	0.69
7:7:76:THR:O	7:7:206:SER:N	2.25	0.69
2:9:102:ASP:O	2:9:106:GLU:N	2.21	0.69
12:E:46:VAL:HB	12:E:222:ILE:HG22	1.73	0.69
12:E:232:ASP:OD2	12:E:234:GLU:HB2	1.92	0.69
16:I:253:ILE:HD13	16:I:253:ILE:O	1.93	0.69
17:J:76:ILE:HG12	17:J:87:LYS:H	1.57	0.69
18:K:180:GLN:HE22	18:K:340:PHE:HA	1.55	0.69
19:L:147:THR:HG22	19:L:156:MET:HB2	1.74	0.69
23:P:163:LEU:HD22	23:P:179:PHE:HB2	1.74	0.69
23:P:181:LEU:HG	23:P:223:LEU:HD11	1.74	0.69
24:Q:10:GLU:HA	24:Q:13:ARG:HB2	1.74	0.69
25:R:319:CYS:HB2	25:R:322:LEU:HD12	1.73	0.69
31:X:86:ILE:HG21	31:X:98:PHE:HB3	1.73	0.69
12:e:91:HIS:CD2	12:e:119:LEU:HD11	2.28	0.69
12:e:214:GLU:HG3	12:e:233:ASN:HB3	1.74	0.69
14:g:23:GLN:O	14:g:27:ALA:N	2.21	0.69
6:k:43:LEU:HB2	6:k:189:ILE:HD13	1.73	0.69
7:l:84:GLN:N	7:l:221:TRP:O	2.22	0.69
7:l:97:ALA:N	7:l:100:TRP:O	2.24	0.69
5:5:8:ASN:OD1	5:5:56:LEU:HD12	1.92	0.69
1:8:30:THR:HA	1:8:74:ASN:ND2	2.07	0.69
16:I:91:GLU:HA	16:I:94:LYS:HB3	1.74	0.69
17:J:42:ARG:NH2	26:S:484:ASP:O	2.26	0.69
19:L:110:LYS:N	19:L:118:ILE:O	2.23	0.69
24:Q:423:VAL:CG1	25:R:417:TYR:CZ	2.76	0.69
28:U:54:LEU:HB3	28:U:68:LEU:HD11	1.74	0.69
31:X:48:PHE:CZ	31:X:68:LEU:HB2	2.26	0.69
8:a:115:ASP:OD1	4:i:101:ARG:NH2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:158:ASP:OD2	8:a:160:ALA:HB3	1.93	0.69
10:c:195:LYS:NZ	10:c:244:ILE:HG13	2.06	0.69
14:g:41:LYS:HA	14:g:46:VAL:HG12	1.72	0.69
4:i:30:THR:O	4:i:158:SER:N	2.25	0.69
4:i:177:LYS:HE3	4:i:206:VAL:HG11	1.73	0.69
6:k:1:MET:HE2	6:k:1:MET:CA	2.14	0.69
6:k:66:LEU:HG	6:k:70:ARG:HH12	1.57	0.69
2:2:228:PHE:N	2:2:245:LEU:O	2.24	0.69
8:A:186:PHE:O	8:A:190:LYS:N	2.17	0.69
9:B:188:ALA:HA	9:B:191:ILE:HB	1.73	0.69
12:E:212:LEU:HD21	12:E:240:ILE:HG12	1.74	0.69
13:F:13:PHE:HZ	14:G:131:PRO:O	1.75	0.69
13:F:117:GLN:NE2	13:F:120:THR:OG1	2.25	0.69
14:G:126:TYR:C	14:G:129:VAL:HG22	2.17	0.69
15:H:405:GLU:HG2	15:H:409:ARG:NH1	2.07	0.69
19:L:370:LYS:HZ1	19:L:395:ALA:HB2	1.57	0.69
21:N:254:SER:HB2	21:N:286:LEU:HD21	1.74	0.69
24:Q:135:HIS:HA	24:Q:138:SER:HB2	1.74	0.69
25:R:361:VAL:HG12	25:R:365:ASP:OD2	1.93	0.69
26:S:344:PRO:HG2	26:S:370:LEU:HD23	1.74	0.69
26:S:471:LEU:CD1	28:U:288:PHE:CB	2.70	0.69
27:T:215:LYS:O	27:T:219:LYS:NZ	2.19	0.69
30:W:98:LEU:HD13	30:W:108:GLN:HB3	1.75	0.69
10:c:193:ALA:O	10:c:197:LEU:N	2.16	0.69
12:e:232:ASP:OD2	12:e:234:GLU:HB2	1.92	0.69
4:4:36:LYS:N	4:4:152:TYR:O	2.26	0.69
8:A:127:ILE:O	8:A:131:ARG:N	2.25	0.69
16:I:252:LEU:CD2	16:I:287:ILE:CD1	2.51	0.69
16:I:398:GLU:HG2	16:I:402:LEU:HG	1.75	0.69
17:J:30:THR:HB	18:K:55:GLU:OE2	1.93	0.69
21:N:259:PHE:HA	21:N:262:VAL:HG12	1.75	0.69
21:N:668:THR:HB	21:N:675:VAL:HG21	1.73	0.69
21:N:861:TYR:HB2	21:N:881:TYR:CD1	2.27	0.69
24:Q:112:ASP:O	24:Q:116:PHE:N	2.25	0.69
25:R:363:PHE:HA	25:R:366:ASN:HD22	1.58	0.69
26:S:425:ARG:NH1	27:T:156:SER:N	2.36	0.69
30:W:127:ARG:HA	30:W:130:LYS:HD2	1.74	0.69
33:Z:511:PRO:O	33:Z:515:SER:N	2.25	0.69
11:d:127:ARG:HH12	11:d:129:PHE:HA	1.57	0.69
12:e:100:ASN:O	12:e:104:ASP:N	2.23	0.69
14:g:183:HIS:ND1	14:g:185:GLU:OE2	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:38:ASN:ND2	4:i:176:THR:HA	2.08	0.69
4:i:225:ARG:NH1	5:j:151:GLU:HG3	2.07	0.69
5:j:46:TYR:OH	5:j:64:ASN:O	2.09	0.69
7:l:82:ARG:NE	7:l:185:PRO:O	2.25	0.69
1:1:46:THR:O	1:1:59:GLU:N	2.24	0.69
1:1:56:SER:HB3	1:1:59:GLU:HB2	1.75	0.69
1:1:82:ALA:O	1:1:86:ARG:N	2.17	0.69
1:1:205:ASP:OD1	4:4:229:GLN:N	2.24	0.69
3:3:175:LYS:HG2	3:3:215:LEU:HD11	1.74	0.69
3:3:183:LYS:NZ	3:h:158:ASP:OD1	2.26	0.69
4:4:38:ASN:ND2	4:4:176:THR:HA	2.08	0.69
4:4:77:THR:HG22	4:4:80:ASP:H	1.57	0.69
6:6:183:ILE:N	6:6:190:ARG:O	2.24	0.69
7:7:93:SER:OG	7:7:104:GLN:O	2.03	0.69
1:8:63:PHE:O	1:8:71:MET:N	2.24	0.69
1:8:213:ARG:NH1	4:i:58:LYS:HG3	2.08	0.69
2:9:228:PHE:N	2:9:245:LEU:O	2.24	0.69
12:E:45:GLY:HA2	12:E:153:TYR:CE1	2.26	0.69
12:E:81:LEU:N	12:E:139:GLY:O	2.23	0.69
12:E:97:VAL:O	12:E:101:LEU:N	2.17	0.69
13:F:67:ASP:HB3	13:F:70:MET:HB3	1.75	0.69
14:G:178:LYS:HB3	14:G:182:HIS:CE1	2.27	0.69
15:H:392:HIS:CE1	15:H:419:LEU:HB2	2.28	0.69
17:J:180:ALA:HB1	17:J:183:LYS:NZ	2.08	0.69
18:K:162:GLY:HA3	18:K:236:ARG:HB3	1.74	0.69
18:K:210:LEU:N	18:K:336:ARG:O	2.24	0.69
19:L:86:LYS:C	19:L:90:LYS:NZ	2.51	0.69
19:L:228:LYS:HB2	19:L:349:ILE:HG21	1.75	0.69
19:L:246:SER:HB3	19:L:280:MET:HA	1.73	0.69
20:M:36:LEU:HD23	20:M:70:LYS:HD2	1.75	0.69
20:M:336:ALA:HB2	20:M:342:ARG:HH11	1.56	0.69
21:N:36:TRP:HA	21:N:39:ILE:HB	1.75	0.69
21:N:391:PRO:HA	21:N:401:LYS:HE3	1.72	0.69
21:N:406:TYR:HB2	21:N:448:LEU:HB2	1.75	0.69
22:O:30:GLU:H	22:O:58:ARG:NH2	1.91	0.69
22:O:82:LEU:O	22:O:87:LYS:N	2.26	0.69
22:O:140:LYS:HA	22:O:181:PHE:HE1	1.53	0.69
23:P:341:LEU:HA	23:P:344:ARG:HB3	1.75	0.69
23:P:381:SER:O	23:P:385:ASN:N	2.18	0.69
24:Q:144:LEU:O	24:Q:148:LYS:N	2.16	0.69
25:R:62:TYR:CE2	25:R:66:LEU:HB2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:373:PRO:O	25:R:375:LYS:NZ	2.22	0.69
28:U:80:CYS:HB3	28:U:87:GLU:HG3	1.73	0.69
29:V:107:TRP:O	29:V:138:ALA:CA	2.40	0.69
33:Z:106:TRP:C	33:Z:112:LYS:HZ3	1.99	0.69
33:Z:513:ALA:O	33:Z:516:THR:OG1	2.07	0.69
8:a:127:ILE:O	8:a:131:ARG:N	2.25	0.69
8:a:177:GLU:O	8:a:180:THR:OG1	2.10	0.69
9:b:191:ILE:HA	9:b:194:LEU:HD12	1.75	0.69
12:e:16:SER:N	12:e:20:ARG:O	2.20	0.69
12:e:237:ALA:HA	12:e:240:ILE:HD12	1.75	0.69
13:f:67:ASP:HB3	13:f:70:MET:HB3	1.75	0.69
13:f:117:GLN:NE2	13:f:120:THR:OG1	2.25	0.69
14:g:8:TYR:CD1	14:g:16:SER:HA	2.27	0.69
7:l:189:TYR:O	7:l:197:LEU:N	2.18	0.69
7:7:92:ASP:HB2	7:7:247:GLY:O	1.92	0.69
1:8:28:GLY:HA3	1:8:49:ILE:CG1	2.22	0.69
12:E:100:ASN:O	12:E:104:ASP:N	2.23	0.69
13:F:11:VAL:O	14:G:130:ARG:HB2	1.93	0.69
14:G:8:TYR:CD1	14:G:16:SER:HA	2.27	0.69
15:H:155:PHE:HE2	20:M:150:LYS:HZ1	1.40	0.69
17:J:297:LEU:HD13	17:J:305:LEU:HD11	1.73	0.69
19:L:358:LEU:HB2	19:L:380:VAL:HG11	1.73	0.69
21:N:117:TYR:OH	21:N:202:PHE:HB2	1.92	0.69
22:O:127:LEU:HA	22:O:130:ASP:OD2	1.92	0.69
23:P:125:VAL:O	23:P:136:ARG:HA	1.93	0.69
24:Q:143:THR:O	24:Q:147:GLN:N	2.20	0.69
25:R:168:ILE:HG12	25:R:206:ARG:HG3	1.73	0.69
25:R:312:TYR:HD1	25:R:316:LEU:HD12	1.58	0.69
27:T:59:LYS:HE3	27:T:94:HIS:CE1	2.27	0.69
28:U:212:ASP:HA	28:U:215:ILE:HB	1.74	0.69
31:X:123:ASN:HA	31:X:126:ILE:HB	1.75	0.69
8:a:41:ASN:OD1	8:a:174:LYS:N	2.25	0.69
8:a:102:ALA:O	8:a:106:TYR:N	2.13	0.69
10:c:170:SER:HA	10:c:173:GLN:HB3	1.74	0.69
11:d:39:LYS:H	11:d:186:ALA:HA	1.57	0.69
3:h:118:VAL:HB	3:h:130:TYR:HB2	1.74	0.69
2:2:76:ILE:N	2:2:84:VAL:O	2.22	0.69
7:7:172:MET:H	7:7:192:SER:HB3	1.55	0.69
9:B:241:GLN:NE2	9:B:245:ASP:OD1	2.23	0.69
12:E:243:LEU:O	12:E:247:GLU:CB	2.41	0.69
15:H:67:ALA:O	15:H:71:GLU:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:304:ARG:NH1	16:I:308:GLU:HB2	2.07	0.69
17:J:317:PRO:HB2	17:J:318:PRO:CA	2.18	0.69
21:N:69:TYR:HD1	21:N:72:LEU:HD12	1.58	0.69
21:N:238:ALA:O	21:N:242:PHE:N	2.19	0.69
21:N:331:ALA:HB2	21:N:697:PHE:CD2	2.27	0.69
21:N:779:GLU:HG2	21:N:866:TYR:HE1	1.58	0.69
22:O:332:ILE:C	22:O:335:GLY:H	2.00	0.69
23:P:335:LYS:HA	23:P:339:GLU:H	1.58	0.69
24:Q:219:ASP:HB2	24:Q:242:SER:HB3	1.75	0.69
26:S:221:ALA:HB3	26:S:230:LYS:NZ	2.06	0.69
26:S:371:LEU:O	26:S:375:ASP:N	2.26	0.69
26:S:469:ASN:O	26:S:473:ASP:HB3	1.93	0.69
31:X:66:LEU:HD21	31:X:97:TYR:CG	2.28	0.69
7:l:92:ASP:HB2	7:l:247:GLY:O	1.92	0.69
2:2:76:ILE:O	2:2:84:VAL:N	2.25	0.68
4:4:36:LYS:NZ	4:4:138:HIS:HA	2.08	0.68
1:8:113:GLN:HB2	1:8:150:TYR:HE2	1.59	0.68
15:H:105:ILE:HD13	15:H:169:GLU:OE1	1.93	0.68
15:H:424:THR:HG21	16:I:343:ARG:HH12	1.57	0.68
16:I:190:GLN:NE2	16:I:349:LEU:O	2.26	0.68
19:L:71:ASP:HA	19:L:74:LEU:HB3	1.75	0.68
19:L:379:ALA:O	19:L:383:SER:N	2.26	0.68
21:N:111:GLN:CD	21:N:111:GLN:H	2.01	0.68
23:P:287:ASP:C	23:P:289:ASN:H	2.00	0.68
24:Q:275:ILE:C	24:Q:279:LYS:HZ3	2.01	0.68
25:R:74:ASN:HA	25:R:87:SER:HA	1.73	0.68
25:R:218:CYS:O	25:R:223:ASN:N	2.26	0.68
28:U:24:ARG:NH1	29:V:100:ARG:HA	2.08	0.68
28:U:102:SER:HA	28:U:105:LYS:HZ3	1.57	0.68
28:U:174:LEU:HD21	29:V:210:THR:HG23	1.75	0.68
30:W:12:ASN:CG	30:W:81:ILE:HA	2.18	0.68
33:Z:307:HIS:ND1	33:Z:310:LEU:HD23	2.09	0.68
33:Z:517:ASP:O	33:Z:522:THR:N	2.26	0.68
9:b:12:PHE:H	10:c:21:GLN:HE22	1.40	0.68
10:c:171:ALA:O	10:c:175:LEU:HG	1.93	0.68
7:l:279:GLU:CD	7:l:281:SER:HB3	2.19	0.68
1:1:27:ASN:OD1	1:1:77:ALA:N	2.26	0.68
1:1:40:ALA:N	1:1:226:VAL:O	2.23	0.68
7:7:103:SER:HB3	7:7:106:VAL:HG23	1.75	0.68
7:7:103:SER:HB2	1:8:156:ARG:HH22	1.57	0.68
2:9:253:ASP:C	2:9:256:LYS:HZ2	2.00	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:201:LEU:CD2	12:E:243:LEU:CD2	2.71	0.68
12:E:237:ALA:HA	12:E:240:ILE:HD12	1.75	0.68
17:J:373:ARG:NH2	24:Q:193:LYS:HG2	2.08	0.68
20:M:230:LEU:O	20:M:234:ALA:N	2.22	0.68
21:N:135:SER:O	21:N:139:ARG:N	2.23	0.68
21:N:298:TYR:O	21:N:302:PHE:N	2.15	0.68
21:N:759:ILE:HG13	21:N:770:LYS:HE2	1.75	0.68
21:N:891:VAL:H	21:N:908:ARG:HG2	1.58	0.68
25:R:259:PHE:CE1	25:R:332:GLU:HB2	2.27	0.68
25:R:394:ASP:O	25:R:397:ASN:ND2	2.27	0.68
26:S:478:SER:HA	26:S:481:TYR:HE2	1.58	0.68
27:T:151:TRP:CZ2	27:T:159:LYS:HB2	2.28	0.68
28:U:195:LYS:HZ3	29:V:233:LYS:HE3	1.58	0.68
29:V:109:HIS:HB2	29:V:111:HIS:NE2	2.08	0.68
33:Z:204:CYS:O	33:Z:208:VAL:N	2.21	0.68
33:Z:233:LEU:HA	33:Z:236:PHE:HB3	1.73	0.68
10:c:75:VAL:HG12	10:c:137:TYR:HA	1.75	0.68
10:c:100:LYS:HG3	5:j:65:GLU:HB3	1.76	0.68
11:d:31:THR:HG21	11:d:49:ARG:HB2	1.76	0.68
4:i:36:LYS:N	4:i:152:TYR:O	2.26	0.68
7:l:93:SER:OG	7:l:104:GLN:O	2.03	0.68
6:6:145:ASP:OD1	7:l:242:ARG:NH2	2.24	0.68
6:6:149:ARG:HA	7:l:283:ASN:HD22	1.58	0.68
1:8:56:SER:HB3	1:8:59:GLU:HB2	1.75	0.68
8:A:158:ASP:OD2	8:A:160:ALA:HB3	1.93	0.68
10:C:75:VAL:HG12	10:C:137:TYR:HA	1.75	0.68
12:E:167:TYR:CE2	13:F:57:SER:HB3	2.28	0.68
13:F:50:LYS:HB3	13:F:59:TYR:HB3	1.76	0.68
17:J:42:ARG:HB2	26:S:484:ASP:OD2	1.92	0.68
17:J:88:VAL:HG12	17:J:90:PRO:HD2	1.75	0.68
17:J:181:GLN:NE2	17:J:287:ASN:OD1	2.26	0.68
19:L:132:ARG:NH1	19:L:156:MET:HA	2.07	0.68
19:L:246:SER:O	19:L:281:ASP:N	2.20	0.68
21:N:112:GLU:O	21:N:116:GLN:N	2.22	0.68
24:Q:311:LEU:HD22	24:Q:366:ILE:HG13	1.74	0.68
25:R:200:LYS:C	25:R:207:ARG:NH2	2.47	0.68
25:R:327:ASP:HA	25:R:330:VAL:HG23	1.74	0.68
25:R:407:GLY:HA2	25:R:410:LEU:HD12	1.74	0.68
30:W:68:GLU:CD	30:W:69:PHE:N	2.51	0.68
10:c:146:TYR:OH	10:c:218:LYS:N	2.15	0.68
13:f:186:PRO:O	13:f:190:ILE:N	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:236:ARG:CZ	5:j:161:GLU:HB2	2.24	0.68
6:k:82:SER:HA	6:k:125:LYS:HZ3	1.58	0.68
2:2:155:ASN:ND2	2:2:157:ASP:OD2	2.27	0.68
3:3:118:VAL:HB	3:3:130:TYR:HB2	1.74	0.68
4:4:96:SER:OG	4:4:101:ARG:O	2.09	0.68
4:4:121:GLY:HA3	4:4:145:HIS:CE1	2.29	0.68
6:6:18:SER:HA	6:6:179:VAL:HG12	1.76	0.68
6:6:66:LEU:HG	6:6:70:ARG:HH12	1.58	0.68
6:6:159:ASP:O	6:6:163:LEU:N	2.16	0.68
2:9:155:ASN:ND2	2:9:157:ASP:OD2	2.26	0.68
8:A:65:ASP:H	14:G:159:GLY:C	2.01	0.68
14:G:23:GLN:O	14:G:27:ALA:N	2.22	0.68
15:H:305:ILE:HA	15:H:350:LYS:HB2	1.76	0.68
16:I:303:GLN:O	16:I:307:LEU:N	2.20	0.68
16:I:378:GLU:HA	16:I:381:VAL:HB	1.75	0.68
17:J:97:ASP:OD1	17:J:98:VAL:N	2.27	0.68
18:K:78:GLU:OE1	18:K:81:ARG:NH2	2.26	0.68
25:R:167:LYS:HE2	25:R:198:ILE:HG22	1.76	0.68
26:S:471:LEU:CD1	28:U:288:PHE:CA	2.71	0.68
27:T:20:TYR:HA	27:T:23:CYS:SG	2.33	0.68
27:T:227:PRO:HG3	27:T:236:ASN:H	1.58	0.68
27:T:266:TYR:O	27:T:270:ILE:N	2.26	0.68
28:U:210:TYR:HA	28:U:213:LYS:HB3	1.75	0.68
29:V:257:GLU:OE2	29:V:287:THR:CG2	2.41	0.68
33:Z:297:VAL:O	33:Z:301:THR:N	2.24	0.68
10:c:143:ARG:NH2	6:k:73:TYR:HB2	2.08	0.68
12:e:179:ALA:HB2	12:e:207:VAL:HG11	1.73	0.68
13:f:195:GLU:O	13:f:198:SER:OG	2.07	0.68
3:h:175:LYS:HG2	3:h:215:LEU:HD11	1.74	0.68
2:2:253:ASP:C	2:2:256:LYS:HZ2	2.00	0.68
7:7:94:ARG:HH11	7:7:245:TYR:C	2.01	0.68
8:A:41:ASN:OD1	8:A:174:LYS:N	2.25	0.68
10:C:120:GLN:NE2	11:D:81:ASP:HA	2.09	0.68
12:E:201:LEU:HD23	12:E:243:LEU:CD2	2.24	0.68
14:G:38:ILE:HA	14:G:164:ALA:HA	1.76	0.68
14:G:136:THR:O	14:G:150:MET:HA	1.93	0.68
14:G:218:TRP:CH2	14:G:224:THR:HG23	2.28	0.68
16:I:115:ASP:OD2	16:I:129:TYR:OH	2.12	0.68
18:K:96:ILE:HG12	19:L:128:ILE:HG13	1.76	0.68
18:K:257:VAL:HA	18:K:260:LEU:HB3	1.74	0.68
18:K:348:GLU:O	18:K:352:ILE:N	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:355:ALA:HA	19:L:358:LEU:HB3	1.75	0.68
21:N:18:ASP:HA	21:N:21:LYS:HB2	1.76	0.68
21:N:140:MET:O	21:N:144:CYS:N	2.24	0.68
21:N:170:LEU:O	21:N:174:LEU:N	2.26	0.68
22:O:125:GLY:O	22:O:129:ILE:N	2.21	0.68
24:Q:326:MET:HA	24:Q:332:ARG:HD3	1.76	0.68
26:S:292:TYR:O	26:S:296:ALA:N	2.27	0.68
26:S:338:MET:H	26:S:342:LEU:H	1.40	0.68
28:U:10:ILE:N	28:U:160:THR:O	2.26	0.68
29:V:49:VAL:O	29:V:109:HIS:ND1	2.23	0.68
29:V:163:ALA:HB2	29:V:184:ASN:HB3	1.75	0.68
33:Z:987:PRO:HB3	33:Z:990:ARG:HH21	1.58	0.68
3:h:27:PHE:N	3:h:30:GLY:O	2.17	0.68
6:k:159:ASP:O	6:k:163:LEU:N	2.16	0.68
7:l:78:THR:N	7:l:204:VAL:O	2.14	0.68
1:1:63:PHE:O	1:1:71:MET:N	2.23	0.68
7:7:82:ARG:NE	7:7:185:PRO:O	2.25	0.68
8:A:15:HIS:NE2	14:G:6:THR:O	2.26	0.68
10:C:171:ALA:O	10:C:175:LEU:HG	1.93	0.68
12:E:72:ARG:HH21	12:E:226:ASP:HA	1.58	0.68
14:G:117:GLY:O	14:G:121:GLN:N	2.20	0.68
21:N:451:GLY:HA2	21:N:454:ALA:HB3	1.76	0.68
21:N:542:SER:CB	21:N:547:LEU:HB2	2.24	0.68
21:N:629:CYS:HA	21:N:632:LYS:HB2	1.76	0.68
23:P:147:LYS:HZ2	23:P:159:ILE:CG2	2.05	0.68
24:Q:277:ASP:HA	24:Q:280:ASN:HB2	1.76	0.68
24:Q:405:GLN:NE2	25:R:394:ASP:O	2.26	0.68
27:T:110:LEU:O	27:T:114:LEU:N	2.16	0.68
30:W:39:ALA:O	30:W:43:SER:N	2.25	0.68
30:W:92:GLN:NE2	30:W:95:GLN:OE1	2.27	0.68
33:Z:355:GLU:HA	33:Z:358:TYR:CD2	2.29	0.68
33:Z:408:TYR:HE1	33:Z:442:VAL:HG21	1.58	0.68
13:f:187:ASP:OD1	13:f:233:TYR:OH	2.11	0.68
5:j:12:VAL:HG22	5:j:25:CYS:HB3	1.76	0.68
7:l:103:SER:HB3	7:l:106:VAL:HG23	1.75	0.68
3:3:85:TYR:O	3:3:89:TYR:N	2.25	0.68
7:7:252:LEU:HB2	7:7:263:HIS:HB2	1.76	0.68
18:K:74:HIS:CE1	21:N:577:SER:HA	2.29	0.68
19:L:82:ARG:HB3	19:L:86:LYS:HZ1	1.57	0.68
20:M:219:LEU:O	20:M:347:ILE:N	2.27	0.68
21:N:36:TRP:O	21:N:40:SER:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:60:MET:HB2	21:N:88:ARG:HE	1.59	0.68
21:N:498:ILE:HG23	21:N:535:LEU:HD22	1.75	0.68
23:P:287:ASP:HB3	23:P:294:GLU:HG2	1.74	0.68
23:P:411:LEU:HG	23:P:415:TRP:HB2	1.76	0.68
26:S:24:LYS:O	26:S:25:TYR:C	2.37	0.68
30:W:17:ARG:NH1	30:W:18:ASN:HD22	1.91	0.68
30:W:55:ALA:O	30:W:86:HIS:NE2	2.27	0.68
33:Z:539:ASN:HB3	33:Z:542:ILE:HG22	1.75	0.68
33:Z:987:PRO:HA	33:Z:990:ARG:HB3	1.76	0.68
10:c:14:SER:OG	10:c:18:ARG:N	2.26	0.68
13:f:50:LYS:HB3	13:f:59:TYR:HB3	1.76	0.68
14:g:136:THR:O	14:g:150:MET:HA	1.93	0.68
14:g:218:TRP:CH2	14:g:224:THR:HG23	2.28	0.68
3:h:22:ILE:O	3:h:146:ALA:N	2.27	0.68
6:k:15:LEU:HD11	6:k:105:GLY:HA3	1.76	0.68
7:l:104:GLN:HB3	7:l:248:GLY:HA2	1.76	0.68
2:2:50:ASP:OD1	2:2:51:ASN:N	2.27	0.68
3:3:172:ASP:O	3:3:176:HIS:ND1	2.24	0.68
5:5:12:VAL:HG22	5:5:25:CYS:HB3	1.76	0.68
11:D:39:LYS:H	11:D:186:ALA:HA	1.57	0.68
17:J:61:GLU:O	17:J:65:LEU:N	2.25	0.68
17:J:84:VAL:N	17:J:96:VAL:O	2.27	0.68
17:J:114:CYS:HB2	17:J:124:LYS:HG2	1.74	0.68
18:K:281:ARG:HE	18:K:285:GLN:H	1.41	0.68
18:K:385:ALA:O	18:K:389:GLU:N	2.15	0.68
19:L:400:PHE:O	19:L:404:ARG:N	2.27	0.68
21:N:221:ASP:OD2	21:N:224:THR:N	2.22	0.68
21:N:325:PHE:HD2	29:V:184:ASN:HB2	1.59	0.68
21:N:345:ASP:CG	21:N:347:SER:HG	2.02	0.68
22:O:210:ARG:HH21	22:O:237:PRO:C	2.02	0.68
23:P:276:LEU:O	23:P:280:LEU:N	2.25	0.68
25:R:232:VAL:HA	25:R:253:ALA:HB1	1.75	0.68
25:R:286:LEU:HD22	25:R:289:ILE:HD13	1.75	0.68
25:R:288:SER:O	25:R:292:LEU:N	2.27	0.68
28:U:7:LYS:HB3	28:U:157:LEU:HD23	1.74	0.68
33:Z:269:TYR:HA	33:Z:272:TYR:HB2	1.76	0.68
8:a:98:LYS:HZ3	3:h:88:GLN:HG2	1.59	0.68
12:e:72:ARG:HH21	12:e:226:ASP:HA	1.58	0.68
3:h:55:ARG:HB2	3:h:61:TRP:CH2	2.29	0.68
1:1:201:LYS:HG2	4:4:229:GLN:HG3	1.75	0.68
5:5:183:TRP:HZ2	7:l:242:ARG:HA	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:21:PRO:HA	9:B:23:TYR:CE1	2.29	0.68
8:A:76:SER:OG	8:A:79:ILE:N	2.20	0.68
9:B:119:GLN:NE2	10:C:83:ASP:HA	2.08	0.68
12:E:36:THR:HA	12:E:173:GLY:HA3	1.76	0.68
14:G:68:GLN:HE22	14:G:86:ARG:NH1	1.91	0.68
15:H:97:LEU:HD12	15:H:189:PRO:HB2	1.75	0.68
15:H:155:PHE:HE2	20:M:150:LYS:NZ	1.91	0.68
17:J:273:LEU:HA	17:J:276:LEU:HB2	1.76	0.68
20:M:216:LYS:HE3	20:M:321:VAL:HG21	1.75	0.68
23:P:108:LYS:HA	23:P:112:LEU:CG	2.24	0.68
23:P:168:TYR:O	23:P:176:LYS:NZ	2.25	0.68
23:P:255:ALA:HA	23:P:258:LYS:HE2	1.76	0.68
23:P:311:TRP:NE1	23:P:342:GLN:OE1	2.27	0.68
23:P:377:GLU:HA	23:P:380:ILE:HD12	1.76	0.68
24:Q:182:SER:O	24:Q:186:HIS:N	2.21	0.68
24:Q:411:SER:HB3	29:V:258:GLU:HG2	1.74	0.68
26:S:394:ILE:O	26:S:395:ILE:HG12	1.93	0.68
27:T:118:ASN:HB3	27:T:121:LYS:NZ	2.09	0.68
28:U:169:ILE:HG12	29:V:149:GLY:HA2	1.75	0.68
33:Z:445:PRO:HB3	33:Z:485:ILE:HG13	1.75	0.68
33:Z:762:GLY:HA3	33:Z:792:VAL:HG21	1.76	0.68
12:e:36:THR:HA	12:e:173:GLY:HA3	1.76	0.68
13:f:11:VAL:O	14:g:130:ARG:HB2	1.94	0.68
14:g:68:GLN:HE22	14:g:86:ARG:NH1	1.91	0.68
4:i:202:VAL:O	4:i:219:TYR:N	2.27	0.68
6:k:18:SER:HA	6:k:179:VAL:HG12	1.76	0.68
2:9:46:SER:N	2:9:175:LEU:O	2.27	0.68
9:B:150:VAL:HG22	9:B:156:TYR:HB2	1.76	0.68
11:D:122:GLN:HB3	12:E:136:ARG:CZ	2.24	0.68
12:E:91:HIS:CD2	12:E:119:LEU:HD11	2.28	0.68
15:H:168:ILE:HG12	15:H:186:PRO:HG3	1.75	0.68
15:H:334:LEU:HD11	20:M:169:ALA:HA	1.76	0.68
18:K:233:ALA:O	18:K:268:ILE:N	2.27	0.68
19:L:184:GLY:O	19:L:360:ILE:HG13	1.93	0.68
20:M:147:GLY:N	20:M:157:ASP:O	2.27	0.68
20:M:309:LEU:O	20:M:313:ASP:N	2.15	0.68
21:N:360:GLN:HG3	21:N:363:ALA:H	1.58	0.68
21:N:536:ILE:HA	21:N:539:MET:HE3	1.74	0.68
22:O:173:SER:O	22:O:176:SER:OG	2.10	0.68
22:O:340:SER:O	22:O:349:THR:N	2.27	0.68
23:P:417:HIS:HA	23:P:420:ASP:OD2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:162:LEU:HB3	24:Q:166:LYS:HE3	1.75	0.68
25:R:404:VAL:HG22	26:S:460:VAL:HG11	1.76	0.68
27:T:106:ILE:HA	27:T:109:TYR:HB3	1.75	0.68
27:T:168:SER:HA	27:T:171:ILE:HB	1.76	0.68
28:U:104:LEU:HD13	28:U:152:LYS:CE	2.24	0.68
33:Z:762:GLY:N	33:Z:789:GLN:HE21	1.91	0.68
10:c:168:ASN:ND2	10:c:200:THR:O	2.24	0.68
12:e:18:GLU:OE1	12:e:18:GLU:N	2.21	0.68
1:1:237:GLU:CD	2:2:194:ARG:HH12	2.01	0.67
2:2:42:THR:HG23	2:2:74:ARG:CZ	2.23	0.67
2:2:253:ASP:HB3	4:4:173:GLN:HE22	1.59	0.67
7:7:285:VAL:HA	5:j:38:ASN:ND2	2.09	0.67
2:9:118:GLU:O	13:F:101:ARG:NH2	2.27	0.67
12:E:72:ARG:NH2	12:E:225:GLN:O	2.27	0.67
14:G:123:HIS:CD2	14:G:132:PHE:CE1	2.81	0.67
16:I:180:SER:HB3	16:I:238:ASN:HD22	1.57	0.67
16:I:396:CYS:HA	16:I:416:PHE:CE2	2.29	0.67
17:J:112:ARG:HG2	17:J:128:ASN:HA	1.74	0.67
17:J:342:ASN:H	17:J:379:GLN:CD	2.01	0.67
23:P:7:LYS:O	23:P:11:GLN:N	2.27	0.67
23:P:427:GLU:HA	29:V:234:GLU:OE2	1.92	0.67
26:S:389:LYS:HA	26:S:392:ILE:HD12	1.75	0.67
30:W:20:ASP:H	30:W:25:ARG:HB2	1.60	0.67
8:a:73:PHE:N	8:a:81:MET:O	2.15	0.67
10:c:181:LYS:HG2	10:c:184:MET:HG3	1.76	0.67
11:d:18:PHE:O	11:d:22:TYR:N	2.27	0.67
12:e:72:ARG:NH2	12:e:225:GLN:O	2.27	0.67
14:g:117:GLY:O	14:g:121:GLN:N	2.20	0.67
4:i:247:VAL:HB	5:j:195:VAL:HB	1.74	0.67
1:1:92:LYS:HZ2	13:f:93:ASN:HB2	1.59	0.67
3:3:55:ARG:HB2	3:3:61:TRP:CZ2	2.29	0.67
6:6:7:ILE:O	6:6:14:ILE:N	2.20	0.67
7:7:241:HIS:ND1	5:j:204:GLN:O	2.26	0.67
2:9:50:ASP:OD1	2:9:51:ASN:N	2.26	0.67
11:D:175:LEU:HA	11:D:178:ASN:HB2	1.75	0.67
12:E:234:GLU:OE1	12:E:234:GLU:N	2.24	0.67
15:H:263:VAL:HA	15:H:266:ARG:HB2	1.76	0.67
15:H:319:PHE:CD1	20:M:249:PRO:HA	2.29	0.67
18:K:342:SER:HB2	18:K:344:ARG:NH2	2.09	0.67
20:M:148:VAL:HA	20:M:156:LEU:H	1.58	0.67
21:N:227:LYS:O	21:N:231:ASN:N	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:93:ASP:O	22:O:96:LEU:N	2.27	0.67
25:R:33:LEU:HD11	25:R:89:ASN:CG	2.19	0.67
26:S:320:ILE:HA	26:S:323:LEU:HD12	1.75	0.67
26:S:436:ILE:HG12	26:S:443:ILE:HA	1.76	0.67
8:a:200:GLU:HG3	8:a:244:ARG:NH2	2.09	0.67
11:d:48:ARG:N	11:d:209:ASN:O	2.18	0.67
12:e:37:ALA:N	12:e:172:ILE:O	2.22	0.67
3:h:172:ASP:O	3:h:176:HIS:ND1	2.24	0.67
4:i:36:LYS:NZ	4:i:138:HIS:HA	2.08	0.67
5:j:111:GLY:O	5:j:120:PHE:N	2.25	0.67
1:1:119:LYS:O	1:1:122:PHE:N	2.27	0.67
3:3:55:ARG:HB2	3:3:61:TRP:CH2	2.29	0.67
1:8:54:ILE:CB	2:9:189:ARG:HH12	2.03	0.67
2:9:253:ASP:HB3	4:i:173:GLN:HE22	1.59	0.67
10:C:170:SER:HA	10:C:173:GLN:HB3	1.74	0.67
14:G:96:ALA:O	14:G:100:LYS:N	2.22	0.67
15:H:69:VAL:HG11	16:I:152:LYS:HB3	1.76	0.67
15:H:288:ALA:HA	15:H:335:GLU:HG2	1.75	0.67
17:J:275:LEU:HA	17:J:278:GLN:HB3	1.76	0.67
21:N:124:TYR:HB2	21:N:162:ARG:NH1	2.08	0.67
21:N:427:ILE:O	21:N:431:SER:N	2.28	0.67
22:O:242:ILE:HB	22:O:248:TYR:CD1	2.30	0.67
22:O:367:LYS:HZ1	28:U:201:GLN:CD	2.02	0.67
23:P:66:LEU:HB3	23:P:70:ASN:ND2	2.09	0.67
23:P:305:THR:O	23:P:310:ARG:NH2	2.27	0.67
24:Q:285:LYS:HA	24:Q:288:LYS:HB3	1.75	0.67
25:R:240:SER:OG	25:R:244:THR:N	2.28	0.67
27:T:43:ASP:OD2	27:T:47:GLN:HG3	1.95	0.67
27:T:186:ARG:O	27:T:190:ALA:N	2.23	0.67
28:U:189:ARG:HA	28:U:192:ASN:ND2	2.10	0.67
33:Z:385:PHE:O	33:Z:389:PHE:N	2.21	0.67
9:b:41:ASN:ND2	9:b:185:LEU:H	1.92	0.67
11:d:22:TYR:HA	11:d:25:GLU:HG2	1.76	0.67
14:g:123:HIS:CD2	14:g:132:PHE:CE1	2.83	0.67
4:i:69:LYS:HB3	4:i:132:VAL:HG23	1.76	0.67
2:2:46:SER:N	2:2:175:LEU:O	2.27	0.67
2:2:49:TYR:CZ	2:2:203:VAL:HG22	2.30	0.67
5:5:68:ARG:HH21	10:C:100:LYS:HA	1.56	0.67
7:7:104:GLN:HB3	7:7:248:GLY:HA2	1.76	0.67
7:7:279:GLU:CD	7:7:281:SER:HB3	2.19	0.67
2:9:136:ARG:NH2	2:9:141:ASN:OD1	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:85:GLU:HA	10:C:88:ILE:HB	1.74	0.67
19:L:228:LYS:NZ	19:L:327:THR:O	2.20	0.67
20:M:11:THR:O	20:M:15:ASP:N	2.20	0.67
20:M:17:GLU:HB3	20:M:21:GLU:OE2	1.94	0.67
20:M:376:TRP:O	20:M:380:ALA:N	2.19	0.67
21:N:313:LEU:HD12	21:N:316:LYS:HD3	1.74	0.67
22:O:192:SER:HA	22:O:195:TYR:HB3	1.77	0.67
23:P:252:SER:HB2	23:P:257:TRP:HB2	1.76	0.67
26:S:212:SER:O	26:S:216:LYS:N	2.22	0.67
26:S:250:ALA:HA	26:S:253:PHE:CD2	2.29	0.67
26:S:401:LYS:HG2	26:S:444:GLU:HA	1.77	0.67
28:U:235:LEU:O	28:U:259:ASN:ND2	2.28	0.67
29:V:145:GLN:HB3	29:V:152:VAL:HG21	1.76	0.67
30:W:129:ALA:HA	30:W:132:LEU:HD12	1.76	0.67
33:Z:362:LEU:O	33:Z:366:LYS:CB	2.39	0.67
11:d:175:LEU:HA	11:d:178:ASN:HB2	1.75	0.67
13:f:166:GLN:O	13:f:170:THR:N	2.22	0.67
3:h:13:LYS:O	4:i:145:HIS:NE2	2.25	0.67
3:h:55:ARG:HB2	3:h:61:TRP:CZ2	2.29	0.67
6:k:157:GLY:O	6:k:161:LEU:N	2.20	0.67
7:l:119:THR:OG1	7:l:175:MET:N	2.25	0.67
1:1:181:PRO:HA	4:4:237:GLY:HA3	1.75	0.67
2:2:135:GLN:HB3	2:2:139:LYS:HZ2	1.56	0.67
4:4:202:VAL:O	4:4:219:TYR:N	2.27	0.67
5:5:98:ARG:O	5:5:101:GLY:N	2.28	0.67
6:6:146:HIS:CE1	7:l:279:GLU:OE2	2.48	0.67
2:9:49:TYR:CZ	2:9:203:VAL:HG22	2.30	0.67
9:B:41:ASN:ND2	9:B:185:LEU:H	1.92	0.67
10:C:181:LYS:HG2	10:C:184:MET:HG3	1.76	0.67
11:D:31:THR:HG21	11:D:49:ARG:HB2	1.76	0.67
13:F:195:GLU:O	13:F:198:SER:OG	2.07	0.67
14:G:221:LEU:HA	14:G:226:GLY:H	1.59	0.67
15:H:175:GLY:HA3	15:H:189:PRO:HB3	1.75	0.67
17:J:172:GLU:HA	17:J:175:GLU:HB2	1.75	0.67
18:K:123:LEU:HB3	18:K:125:THR:HB	1.76	0.67
18:K:185:ARG:HA	18:K:189:GLU:HB3	1.76	0.67
18:K:291:GLU:HG3	18:K:294:ARG:HH22	1.59	0.67
20:M:175:LYS:HG2	20:M:241:ALA:C	2.19	0.67
20:M:201:MET:SD	20:M:239:THR:HB	2.35	0.67
20:M:216:LYS:HZ1	20:M:315:PHE:HD2	1.42	0.67
20:M:221:TYR:CE1	20:M:346:LYS:HG2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:65:ALA:HB1	21:N:69:TYR:CZ	2.29	0.67
21:N:167:GLU:HG3	21:N:213:PHE:CZ	2.29	0.67
21:N:167:GLU:HG3	21:N:213:PHE:HZ	1.60	0.67
21:N:187:ASN:HA	21:N:190:LEU:HB3	1.77	0.67
21:N:641:LEU:O	21:N:645:THR:N	2.27	0.67
22:O:68:LYS:O	22:O:72:LYS:N	2.27	0.67
23:P:168:TYR:HD1	23:P:171:MET:HB3	1.59	0.67
25:R:225:LYS:NZ	25:R:261:LEU:HD23	2.09	0.67
25:R:382:ASP:OD1	25:R:383:ARG:N	2.28	0.67
29:V:31:SER:HA	29:V:34:LEU:HB3	1.76	0.67
31:X:28:PRO:HG2	31:X:59:ARG:HD3	1.76	0.67
10:c:117:ASP:OD1	11:d:83:ARG:NE	2.23	0.67
14:g:221:LEU:HA	14:g:226:GLY:H	1.59	0.67
7:7:115:PHE:HA	7:7:259:GLY:HA3	1.77	0.67
9:B:191:ILE:HA	9:B:194:LEU:HD12	1.75	0.67
13:F:54:ASP:O	13:F:57:SER:OG	2.09	0.67
14:G:16:SER:O	14:G:19:GLY:N	2.25	0.67
16:I:248:VAL:O	16:I:252:LEU:CG	2.43	0.67
16:I:384:LYS:HZ2	16:I:392:ILE:HG12	1.59	0.67
17:J:43:ARG:HE	26:S:480:ARG:HB2	1.60	0.67
17:J:210:PHE:HA	17:J:244:ILE:O	1.95	0.67
18:K:103:ILE:H	18:K:108:GLY:HA2	1.59	0.67
18:K:245:LYS:HE3	19:L:300:GLU:OE2	1.95	0.67
19:L:147:THR:O	19:L:156:MET:N	2.28	0.67
19:L:365:THR:HB	19:L:370:LYS:HZ1	1.57	0.67
21:N:69:TYR:HB3	21:N:74:GLU:HB2	1.77	0.67
21:N:70:TYR:HA	21:N:75:TYR:HE1	1.60	0.67
22:O:30:GLU:O	22:O:34:GLU:N	2.24	0.67
23:P:325:ASP:H	23:P:337:HIS:HE1	1.41	0.67
25:R:192:GLU:O	25:R:196:SER:N	2.28	0.67
28:U:165:GLU:HA	28:U:168:GLU:HB3	1.77	0.67
29:V:71:MET:HE2	29:V:84:ASP:H	1.59	0.67
12:e:142:LEU:O	12:e:158:ALA:N	2.27	0.67
5:j:17:GLY:HA3	5:j:163:LEU:HD22	1.77	0.67
7:l:115:PHE:HA	7:l:259:GLY:HA3	1.77	0.67
7:l:252:LEU:HB2	7:l:263:HIS:HB2	1.76	0.67
1:1:133:LEU:HB3	1:1:137:GLY:HA2	1.77	0.67
2:2:228:PHE:O	2:2:245:LEU:N	2.28	0.67
3:3:40:THR:HG22	3:3:45:ILE:HG12	1.75	0.67
3:3:138:VAL:N	2:9:94:GLN:HE22	1.92	0.67
7:7:134:LEU:HD22	7:7:158:LEU:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:242:ARG:HA	5:j:183:TRP:HZ2	1.59	0.67
8:A:92:ASN:HB2	14:G:121:GLN:OE1	1.93	0.67
15:H:144:LYS:NZ	15:H:155:PHE:HE2	1.90	0.67
15:H:425:GLU:OE2	15:H:449:LYS:NZ	2.28	0.67
16:I:141:LEU:HD11	16:I:159:VAL:HA	1.76	0.67
19:L:284:ASP:HB3	20:M:293:SER:HA	1.75	0.67
21:N:921:ARG:HA	21:N:925:ASP:HB3	1.76	0.67
22:O:140:LYS:CA	22:O:181:PHE:CE1	2.69	0.67
23:P:107:SER:CB	23:P:111:ASP:CG	2.64	0.67
23:P:133:GLU:HB2	23:P:136:ARG:HH21	1.59	0.67
24:Q:145:HIS:O	24:Q:150:GLN:N	2.26	0.67
29:V:258:GLU:HG3	29:V:259:LYS:H	1.58	0.67
30:W:78:ASP:O	30:W:79:THR:OG1	2.12	0.67
30:W:126:ILE:O	30:W:130:LYS:N	2.22	0.67
33:Z:272:TYR:O	33:Z:276:ASN:N	2.28	0.67
9:b:150:VAL:HG22	9:b:156:TYR:HB2	1.76	0.67
12:e:81:LEU:N	12:e:139:GLY:O	2.23	0.67
4:i:121:GLY:HA3	4:i:145:HIS:CE1	2.29	0.67
5:j:125:ASP:OD1	5:j:129:CYS:N	2.28	0.67
6:k:49:GLU:HB3	6:k:52:ASP:HB2	1.76	0.67
6:k:141:PHE:O	6:k:145:ASP:N	2.21	0.67
2:9:164:ASN:OD1	2:9:167:GLY:N	2.28	0.67
2:9:230:LEU:HD22	2:9:242:LYS:HD2	1.77	0.67
8:A:167:LYS:N	9:B:55:LEU:O	2.26	0.67
12:E:36:THR:OG1	12:E:175:GLY:N	2.28	0.67
12:E:123:PHE:HA	12:E:134:MET:HB3	1.77	0.67
15:H:403:ARG:H	15:H:406:LEU:HD12	1.59	0.67
16:I:106:ILE:HG12	16:I:160:LEU:HD21	1.75	0.67
17:J:43:ARG:NH2	26:S:477:VAL:O	2.27	0.67
18:K:128:ARG:HG3	18:K:129:GLU:HG3	1.77	0.67
19:L:74:LEU:O	19:L:78:ARG:N	2.25	0.67
21:N:463:TYR:HD1	21:N:485:MET:HB3	1.60	0.67
21:N:732:GLY:HA2	21:N:748:PHE:HB3	1.76	0.67
23:P:133:GLU:HG3	23:P:137:ALA:HB2	1.76	0.67
24:Q:42:ALA:HB2	24:Q:47:ASP:OD2	1.94	0.67
24:Q:358:GLU:HG2	24:Q:360:SER:H	1.58	0.67
26:S:152:LEU:HB2	26:S:187:ILE:HG23	1.77	0.67
26:S:276:LEU:HA	26:S:279:ILE:HG12	1.75	0.67
28:U:52:PHE:HE2	28:U:80:CYS:HG	1.43	0.67
28:U:76:MET:HB2	29:V:94:MET:HE1	1.76	0.67
28:U:102:SER:HA	28:U:105:LYS:NZ	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:23:THR:OG1	29:V:164:LEU:N	2.25	0.67
30:W:38:GLN:HG3	30:W:42:ASN:HD21	1.59	0.67
13:f:54:ASP:O	13:f:57:SER:OG	2.09	0.67
14:g:38:ILE:HA	14:g:164:ALA:HA	1.76	0.67
3:h:40:THR:HG22	3:h:45:ILE:HG12	1.76	0.67
7:l:93:SER:O	7:l:106:VAL:N	2.28	0.67
3:3:20:THR:HA	3:3:188:SER:CA	2.24	0.67
3:3:27:PHE:N	3:3:30:GLY:O	2.17	0.67
3:3:47:ASN:OD1	3:3:49:VAL:N	2.28	0.67
5:5:17:GLY:HA3	5:5:163:LEU:HD22	1.77	0.67
1:8:40:ALA:N	1:8:226:VAL:O	2.23	0.67
2:9:76:ILE:O	2:9:84:VAL:N	2.25	0.67
2:9:254:PHE:HA	2:9:256:LYS:NZ	2.09	0.67
11:D:33:ALA:N	11:D:164:ILE:O	2.22	0.67
15:H:193:PRO:HG3	15:H:286:GLU:OE2	1.95	0.67
15:H:337:ILE:HD13	15:H:364:ALA:HB3	1.77	0.67
15:H:364:ALA:O	15:H:367:ARG:NE	2.26	0.67
18:K:158:ILE:HG12	18:K:253:MET:HB2	1.76	0.67
19:L:105:ILE:HD11	20:M:128:PHE:HB2	1.76	0.67
21:N:650:ASP:OD2	21:N:692:GLU:N	2.23	0.67
22:O:15:ARG:NH2	30:W:145:GLY:N	2.39	0.67
25:R:87:SER:OG	25:R:89:ASN:O	2.13	0.67
25:R:335:ARG:NH1	25:R:376:GLN:HB2	2.09	0.67
26:S:27:GLU:O	26:S:31:VAL:N	2.17	0.67
26:S:153:GLU:HA	26:S:156:VAL:CG2	2.24	0.67
30:W:54:GLY:HA2	30:W:86:HIS:HB2	1.74	0.67
30:W:165:GLN:O	30:W:169:SER:N	2.28	0.67
31:X:35:ILE:HG23	31:X:48:PHE:CE1	2.30	0.67
31:X:93:SER:HA	31:X:96:ARG:HE	1.59	0.67
33:Z:114:SER:O	33:Z:118:VAL:N	2.27	0.67
33:Z:319:THR:OG1	33:Z:875:LYS:N	2.26	0.67
8:a:154:ILE:HD12	8:a:168:ALA:HA	1.77	0.67
10:c:34:THR:HA	10:c:166:GLY:HA3	1.76	0.67
12:e:36:THR:OG1	12:e:175:GLY:N	2.28	0.67
14:g:52:LYS:NZ	14:g:62:GLN:HA	2.09	0.67
14:g:66:LYS:N	14:g:215:GLU:OE1	2.25	0.67
3:h:47:ASN:OD1	3:h:49:VAL:N	2.28	0.67
3:h:85:TYR:O	3:h:89:TYR:N	2.25	0.67
5:j:70:LYS:HD3	5:j:90:LEU:HD11	1.76	0.67
6:k:49:GLU:HG3	7:l:166:LYS:NZ	2.10	0.67
4:4:242:LEU:N	5:5:199:TYR:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:70:ARG:HA	11:D:90:ARG:HH11	1.60	0.67
6:6:158:LEU:HD13	6:6:198:GLN:HE22	1.60	0.67
9:B:224:TYR:HE1	9:B:227:ILE:HB	1.60	0.67
16:I:111:GLU:HA	16:I:143:PRO:HB3	1.76	0.67
17:J:164:ILE:CG1	17:J:185:VAL:HG21	2.23	0.67
19:L:86:LYS:C	19:L:90:LYS:HZ3	2.03	0.67
20:M:83:VAL:HG23	20:M:84:GLU:H	1.60	0.67
21:N:504:TYR:HA	21:N:507:GLU:HB3	1.77	0.67
22:O:16:MET:HB3	22:O:19:ASP:OD2	1.95	0.67
22:O:312:ASP:O	22:O:316:ALA:N	2.28	0.67
22:O:338:LYS:NZ	22:O:353:VAL:HB	2.09	0.67
23:P:181:LEU:HD11	23:P:219:GLU:HB3	1.77	0.67
23:P:187:SER:HB3	23:P:192:ASP:O	1.95	0.67
23:P:207:THR:O	23:P:210:ASN:HB2	1.95	0.67
24:Q:7:LYS:NZ	24:Q:33:LYS:HB2	2.07	0.67
24:Q:259:CYS:HA	24:Q:262:LEU:HB3	1.77	0.67
26:S:486:LYS:HZ1	28:U:298:ASN:CB	1.87	0.67
33:Z:770:GLU:O	33:Z:774:ARG:N	2.18	0.67
33:Z:917:ASN:HB2	33:Z:925:VAL:HB	1.77	0.67
10:c:24:TYR:HA	10:c:27:GLU:HB3	1.76	0.67
10:c:195:LYS:O	10:c:199:LYS:N	2.20	0.67
12:e:97:VAL:O	12:e:101:LEU:N	2.17	0.67
14:g:171:SER:HB2	14:g:203:ALA:HA	1.77	0.67
5:j:98:ARG:O	5:j:101:GLY:N	2.28	0.67
5:j:190:ILE:HA	5:j:195:VAL:HG22	1.76	0.67
6:k:2:ASP:N	6:k:2:ASP:OD1	2.25	0.67
1:1:113:GLN:HB2	1:1:150:TYR:HE2	1.59	0.66
2:2:230:LEU:HD22	2:2:242:LYS:HD2	1.77	0.66
4:4:230:LYS:HZ3	4:4:232:TYR:HA	1.58	0.66
1:8:133:LEU:HB3	1:8:137:GLY:HA2	1.77	0.66
9:B:160:LYS:NZ	10:C:55:THR:O	2.22	0.66
10:C:24:TYR:HA	10:C:27:GLU:HB3	1.76	0.66
10:C:156:ASN:ND2	11:D:79:ASN:OD1	2.28	0.66
13:F:197:ILE:O	13:F:201:LEU:N	2.28	0.66
15:H:164:SER:HB2	15:H:168:ILE:HA	1.78	0.66
16:I:100:ARG:HE	16:I:157:VAL:HG11	1.60	0.66
16:I:283:GLU:N	16:I:327:ALA:O	2.27	0.66
17:J:285:SER:HB3	17:J:288:ILE:HD12	1.76	0.66
19:L:145:ARG:NH2	19:L:162:GLU:O	2.28	0.66
20:M:129:LEU:HD21	20:M:155:ILE:HG13	1.76	0.66
21:N:178:SER:HB2	21:N:181:GLU:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:619:CYS:SG	21:N:652:VAL:HG22	2.35	0.66
21:N:779:GLU:HB3	21:N:782:PHE:CD2	2.29	0.66
22:O:45:LEU:HD23	22:O:48:PHE:HD2	1.60	0.66
22:O:342:ASP:N	22:O:347:LEU:O	2.26	0.66
23:P:123:ARG:O	23:P:127:GLU:N	2.28	0.66
24:Q:104:PHE:CB	24:Q:114:GLN:HE22	2.08	0.66
24:Q:220:LEU:HD13	24:Q:261:VAL:HG22	1.75	0.66
25:R:410:LEU:O	25:R:414:LEU:N	2.25	0.66
29:V:264:GLU:OE1	29:V:280:LEU:CD2	2.43	0.66
33:Z:161:ILE:HA	33:Z:164:VAL:HB	1.77	0.66
9:b:224:TYR:HE1	9:b:227:ILE:HB	1.60	0.66
13:f:14:SER:H	13:f:18:ARG:H	1.43	0.66
6:k:183:ILE:N	6:k:190:ARG:O	2.24	0.66
7:l:94:ARG:HH11	7:l:245:TYR:C	2.01	0.66
3:3:133:PRO:HB3	2:9:68:ARG:HH12	1.60	0.66
4:4:30:THR:HG23	4:4:62:LYS:NZ	2.09	0.66
6:6:21:VAL:N	6:6:29:LYS:O	2.28	0.66
6:6:143:LEU:HD13	6:6:163:LEU:HG	1.77	0.66
8:A:181:ASN:HB2	8:A:213:ALA:HB2	1.77	0.66
10:C:14:SER:OG	10:C:18:ARG:N	2.26	0.66
14:G:12:ASN:HB3	14:G:127:ASN:HA	1.75	0.66
16:I:220:ILE:N	16:I:346:ARG:O	2.29	0.66
17:J:273:LEU:HB3	17:J:309:ARG:CZ	2.24	0.66
18:K:188:VAL:HA	18:K:313:LYS:NZ	2.10	0.66
20:M:420:SER:HA	13:f:202:ARG:NH2	2.10	0.66
21:N:464:GLU:O	21:N:467:LYS:N	2.28	0.66
21:N:510:HIS:HB2	21:N:513:ILE:HB	1.78	0.66
21:N:612:SER:H	21:N:618:ARG:NE	1.93	0.66
22:O:1:MET:HB2	22:O:39:PHE:HE2	1.60	0.66
22:O:41:LEU:HD11	22:O:81:TYR:HB3	1.77	0.66
23:P:160:LEU:HD11	23:P:179:PHE:HB3	1.78	0.66
23:P:186:LEU:O	23:P:190:LYS:N	2.19	0.66
23:P:420:ASP:HA	23:P:423:LEU:HB2	1.76	0.66
24:Q:226:HIS:HA	24:Q:229:ASP:OD1	1.95	0.66
24:Q:408:THR:O	24:Q:412:ALA:N	2.29	0.66
25:R:331:ARG:HB3	25:R:371:PHE:CZ	2.30	0.66
26:S:150:LYS:HG3	26:S:151:GLU:H	1.60	0.66
28:U:140:ILE:C	28:U:153:THR:HB	2.21	0.66
28:U:269:THR:O	28:U:273:LEU:HG	1.96	0.66
30:W:37:PHE:CE1	30:W:67:ALA:O	2.48	0.66
31:X:68:LEU:HD21	31:X:73:THR:HG21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:323:TYR:HB2	33:Z:501:LYS:HG2	1.77	0.66
33:Z:513:ALA:HA	33:Z:523:ALA:HB1	1.77	0.66
33:Z:518:LEU:HD13	33:Z:524:ALA:HB3	1.76	0.66
9:b:94:HIS:O	9:b:99:ARG:N	2.25	0.66
12:e:243:LEU:HD13	12:e:247:GLU:OE2	1.95	0.66
13:f:176:LEU:HD13	14:g:58:LEU:HD23	1.75	0.66
4:i:236:ARG:HA	5:j:165:GLU:HG3	1.78	0.66
6:k:158:LEU:HD13	6:k:198:GLN:HE22	1.60	0.66
7:l:179:TYR:HB3	7:l:256:THR:C	2.20	0.66
7:l:220:LYS:H	7:l:223:LEU:HD13	1.60	0.66
1:1:23:PRO:HB3	2:2:140:MET:SD	2.36	0.66
2:2:254:PHE:HA	2:2:256:LYS:NZ	2.10	0.66
3:3:92:PRO:HB2	3:3:96:THR:HB	1.78	0.66
3:3:172:ASP:C	3:3:176:HIS:HD1	2.04	0.66
6:6:41:HIS:NE2	6:6:186:LYS:O	2.28	0.66
7:7:93:SER:O	7:7:106:VAL:N	2.28	0.66
11:D:18:PHE:O	11:D:22:TYR:N	2.27	0.66
12:E:201:LEU:CD2	12:E:243:LEU:HD22	2.25	0.66
13:F:7:ASP:OD1	13:F:8:GLY:N	2.28	0.66
13:F:107:ARG:HA	13:F:110:HIS:CD2	2.27	0.66
14:G:171:SER:HB2	14:G:203:ALA:HA	1.77	0.66
18:K:253:MET:HA	18:K:256:ASP:HB2	1.78	0.66
19:L:173:PHE:O	19:L:243:PHE:N	2.27	0.66
20:M:184:GLY:HA3	20:M:359:GLN:HG3	1.76	0.66
21:N:297:ASP:O	21:N:301:THR:N	2.20	0.66
21:N:726:ASP:CG	21:N:729:SER:H	2.01	0.66
24:Q:300:LYS:HE2	24:Q:304:GLU:OE2	1.96	0.66
25:R:64:LYS:HA	25:R:94:PHE:CZ	2.30	0.66
25:R:334:ARG:NH1	25:R:371:PHE:CE2	2.63	0.66
26:S:232:MET:HA	26:S:235:ASN:HB2	1.78	0.66
33:Z:119:LEU:O	33:Z:123:ALA:N	2.28	0.66
11:d:68:ASP:HA	6:k:69:ILE:HD13	1.77	0.66
11:d:194:LEU:HD13	11:d:197:ARG:NH1	2.11	0.66
4:i:225:ARG:HH12	5:j:151:GLU:HG3	1.60	0.66
5:j:121:ILE:HD12	5:j:137:ILE:HG12	1.78	0.66
6:k:153:THR:OG1	6:k:156:GLU:HG3	1.96	0.66
5:5:75:LYS:HA	5:5:78:GLU:HB2	1.78	0.66
2:9:228:PHE:O	2:9:245:LEU:N	2.28	0.66
13:F:39:ARG:HA	13:F:44:ALA:HA	1.78	0.66
15:H:247:LEU:HD23	15:H:374:LYS:HE3	1.77	0.66
16:I:310:LEU:HA	16:I:313:LEU:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:85:GLU:OE1	18:K:88:ARG:NE	2.28	0.66
22:O:197:SER:HA	22:O:200:GLU:HB2	1.77	0.66
23:P:39:LEU:HG	23:P:43:GLU:HB2	1.78	0.66
27:T:155:GLY:HA2	27:T:157:TYR:CZ	2.31	0.66
30:W:12:ASN:H	30:W:55:ALA:CB	2.07	0.66
33:Z:440:LEU:O	33:Z:448:LYS:HA	1.94	0.66
33:Z:972:SER:HB3	33:Z:981:VAL:HG13	1.78	0.66
10:c:155:GLY:O	11:d:83:ARG:NH2	2.28	0.66
13:f:7:ASP:OD1	13:f:8:GLY:N	2.28	0.66
14:g:201:TYR:HB3	14:g:247:ILE:HD12	1.78	0.66
4:i:129:VAL:N	4:i:140:PHE:O	2.24	0.66
6:k:21:VAL:N	6:k:29:LYS:O	2.28	0.66
2:2:48:LYS:HA	2:2:53:VAL:HA	1.78	0.66
2:2:102:ASP:O	2:2:106:GLU:N	2.21	0.66
2:2:164:ASN:OD1	2:2:167:GLY:N	2.28	0.66
3:3:118:VAL:O	3:3:130:TYR:N	2.28	0.66
3:3:184:TRP:CZ2	3:h:158:ASP:HB2	2.28	0.66
5:5:54:THR:OG1	5:5:139:SER:OG	2.10	0.66
7:7:242:ARG:NH1	5:j:183:TRP:HH2	1.94	0.66
1:8:119:LYS:O	1:8:122:PHE:N	2.27	0.66
8:A:122:ALA:O	9:B:83:ARG:NH2	2.28	0.66
9:B:174:PHE:HE1	9:B:178:ARG:HH21	1.43	0.66
10:C:195:LYS:O	10:C:199:LYS:N	2.20	0.66
11:D:194:LEU:HD13	11:D:197:ARG:NH1	2.11	0.66
13:F:14:SER:H	13:F:18:ARG:H	1.43	0.66
15:H:258:LEU:O	15:H:262:ALA:N	2.27	0.66
17:J:34:ILE:HA	17:J:37:LYS:HD2	1.77	0.66
17:J:252:SER:HB3	17:J:257:ARG:HH12	1.60	0.66
17:J:341:ILE:HA	17:J:379:GLN:HB2	1.77	0.66
18:K:374:ARG:HB3	18:K:411:TYR:CZ	2.30	0.66
20:M:221:TYR:O	20:M:349:PHE:N	2.28	0.66
20:M:371:ASP:N	20:M:409:SER:HB2	2.11	0.66
21:N:36:TRP:HB2	21:N:68:VAL:HG22	1.77	0.66
24:Q:90:LYS:HE3	24:Q:130:ARG:HD3	1.77	0.66
24:Q:98:LYS:NZ	24:Q:140:LYS:HZ1	1.92	0.66
26:S:293:ILE:HG22	26:S:297:ILE:CD1	2.21	0.66
27:T:148:LEU:O	27:T:152:LEU:N	2.20	0.66
31:X:38:ASN:OD1	31:X:39:GLU:N	2.27	0.66
33:Z:183:LYS:O	33:Z:270:SER:OG	2.14	0.66
33:Z:386:VAL:HA	33:Z:389:PHE:HB2	1.77	0.66
8:a:186:PHE:O	8:a:190:LYS:N	2.17	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:174:PHE:HE1	9:b:178:ARG:HH21	1.43	0.66
11:d:33:ALA:N	11:d:164:ILE:O	2.22	0.66
4:i:230:LYS:HZ3	4:i:232:TYR:HA	1.58	0.66
3:3:55:ARG:NH2	3:3:58:ASP:OD1	2.29	0.66
5:5:70:LYS:HD3	5:5:90:LEU:HD11	1.76	0.66
8:A:30:TYR:CE1	14:G:17:PRO:HA	2.31	0.66
11:D:70:HIS:HE1	11:D:103:PRO:HB2	1.61	0.66
15:H:182:ASN:HB3	15:H:185:LEU:HD11	1.77	0.66
17:J:139:VAL:HG13	17:J:211:ILE:HG12	1.77	0.66
17:J:211:ILE:HD12	17:J:245:ILE:HG12	1.78	0.66
18:K:216:GLY:N	18:K:220:THR:OG1	2.29	0.66
19:L:269:TYR:O	19:L:273:HIS:N	2.23	0.66
19:L:411:ASN:HB2	19:L:412:PRO:HD2	1.77	0.66
20:M:361:LEU:O	20:M:365:SER:N	2.23	0.66
21:N:8:PRO:O	21:N:11:ALA:HB3	1.96	0.66
21:N:111:GLN:O	21:N:115:LYS:N	2.21	0.66
21:N:124:TYR:HD2	21:N:162:ARG:NH1	1.94	0.66
21:N:445:GLY:HA2	21:N:448:LEU:HD12	1.76	0.66
21:N:685:VAL:HG22	21:N:691:GLN:HG3	1.78	0.66
22:O:151:ASP:O	22:O:155:LYS:N	2.22	0.66
23:P:56:LYS:HZ3	23:P:91:LEU:HB2	1.60	0.66
23:P:358:SER:O	23:P:402:PHE:N	2.20	0.66
25:R:141:TYR:HB2	25:R:150:ALA:HB2	1.75	0.66
25:R:372:ILE:CA	26:S:395:ILE:HG22	2.25	0.66
26:S:266:SER:O	26:S:270:ALA:N	2.24	0.66
26:S:266:SER:HA	26:S:269:GLU:HB2	1.78	0.66
28:U:73:ILE:HA	28:U:76:MET:HB3	1.78	0.66
29:V:238:LEU:H	29:V:241:THR:HG1	1.42	0.66
33:Z:303:ASP:HB3	33:Z:306:MET:HB3	1.78	0.66
33:Z:780:MET:O	33:Z:784:SER:N	2.23	0.66
8:a:181:ASN:HB2	8:a:213:ALA:HB2	1.77	0.66
11:d:107:GLU:O	11:d:111:ARG:N	2.27	0.66
12:e:62:ASP:OD1	12:e:63:SER:N	2.28	0.66
13:f:107:ARG:HA	13:f:110:HIS:CD2	2.27	0.66
7:l:134:LEU:HD22	7:l:158:LEU:HB2	1.77	0.66
4:4:69:LYS:HB3	4:4:132:VAL:HG23	1.76	0.66
6:6:49:GLU:HB3	6:6:52:ASP:HB2	1.76	0.66
6:6:148:TYR:C	6:6:149:ARG:HH11	2.03	0.66
6:6:153:THR:OG1	6:6:156:GLU:HG3	1.96	0.66
9:B:114:VAL:HA	9:B:117:ILE:HD12	1.78	0.66
13:F:69:HIS:HB2	13:F:137:TYR:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:204:PRO:O	15:H:265:ASN:ND2	2.28	0.66
15:H:241:ASP:HB3	15:H:242:PRO:HD2	1.78	0.66
15:H:382:LEU:HD23	15:H:385:ARG:HH22	1.60	0.66
19:L:270:ALA:O	19:L:274:GLU:N	2.29	0.66
19:L:278:ILE:O	19:L:324:ILE:N	2.20	0.66
19:L:308:LEU:O	19:L:312:MET:N	2.29	0.66
21:N:322:ASP:OD2	21:N:358:LYS:NZ	2.24	0.66
21:N:573:HIS:HA	21:N:576:VAL:HB	1.77	0.66
23:P:204:LEU:HG	23:P:217:LYS:HZ2	1.59	0.66
23:P:206:LYS:HA	23:P:209:LYS:HB2	1.77	0.66
23:P:224:LEU:HA	23:P:227:ILE:HD12	1.76	0.66
24:Q:7:LYS:HE3	24:Q:50:ARG:HH21	1.60	0.66
24:Q:230:LYS:HG3	24:Q:232:TYR:CZ	2.31	0.66
25:R:23:ASN:HD21	25:R:142:ALA:HB1	1.60	0.66
25:R:155:GLY:O	25:R:159:SER:N	2.25	0.66
25:R:378:ASN:HB3	25:R:391:ASN:N	2.09	0.66
26:S:236:LEU:O	26:S:240:ASP:N	2.24	0.66
26:S:354:LEU:HD12	26:S:359:LYS:HE2	1.77	0.66
26:S:360:PHE:HZ	26:S:380:CYS:HB3	1.60	0.66
26:S:385:SER:HA	26:S:388:ILE:HD12	1.77	0.66
27:T:180:ILE:O	27:T:183:SER:OG	2.14	0.66
27:T:188:GLU:HA	27:T:191:LYS:NZ	2.11	0.66
28:U:141:GLU:C	28:U:152:LYS:C	2.63	0.66
29:V:92:MET:O	29:V:96:LYS:N	2.13	0.66
30:W:17:ARG:HB3	30:W:82:GLU:HA	1.78	0.66
33:Z:386:VAL:HG22	33:Z:853:GLY:HA3	1.78	0.66
5:j:34:LEU:HD22	6:k:138:PHE:HE1	1.60	0.66
2:2:42:THR:HG22	2:2:74:ARG:NE	2.11	0.66
5:5:160:PRO:O	5:5:164:PHE:N	2.24	0.66
5:5:190:ILE:HA	5:5:195:VAL:HG22	1.75	0.66
7:7:179:TYR:HB3	7:7:256:THR:C	2.20	0.66
10:C:152:ASN:HD21	10:C:156:ASN:HB3	1.61	0.66
10:C:238:ILE:HD12	10:C:241:LYS:HB2	1.78	0.66
14:G:88:LEU:HA	14:G:91:ARG:HB3	1.77	0.66
15:H:55:ASP:O	15:H:59:ILE:N	2.28	0.66
15:H:275:ILE:HD12	15:H:278:GLU:OE2	1.96	0.66
18:K:100:LEU:HD12	18:K:109:ILE:HG12	1.78	0.66
18:K:347:ARG:N	24:Q:241:GLU:OE1	2.27	0.66
19:L:363:ILE:HG23	19:L:367:LYS:NZ	2.11	0.66
21:N:53:ASP:HA	21:N:58:ARG:CZ	2.25	0.66
21:N:459:ASN:HB3	21:N:462:VAL:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:740:TRP:HB2	29:V:24:LYS:NZ	2.10	0.66
22:O:169:ASN:HA	22:O:195:TYR:HE1	1.60	0.66
23:P:292:LYS:HG3	23:P:295:SER:H	1.60	0.66
24:Q:391:ASP:OD2	24:Q:396:TRP:HB2	1.96	0.66
26:S:360:PHE:CE2	26:S:384:ARG:HG2	2.31	0.66
29:V:111:HIS:HB3	29:V:114:PHE:HD2	1.60	0.66
29:V:111:HIS:N	29:V:141:VAL:O	2.20	0.66
29:V:116:CYS:SG	29:V:117:TRP:N	2.68	0.66
31:X:34:GLU:O	31:X:49:GLU:N	2.21	0.66
14:g:12:ASN:HB3	14:g:127:ASN:HA	1.78	0.66
14:g:88:LEU:HA	14:g:91:ARG:HB3	1.77	0.66
14:g:240:ILE:O	14:g:244:GLN:N	2.19	0.66
3:h:118:VAL:O	3:h:130:TYR:N	2.28	0.66
6:k:119:ILE:HG12	6:k:125:LYS:HA	1.77	0.66
1:1:48:ASN:O	1:1:55:ASN:N	2.29	0.66
1:1:89:ASN:ND2	13:f:93:ASN:HD21	1.94	0.66
1:1:117:TYR:CE2	7:l:129:PHE:CE1	2.84	0.66
4:4:176:THR:N	4:4:179:GLU:OE1	2.21	0.66
5:5:16:THR:HG22	5:5:21:VAL:HG12	1.78	0.66
2:9:44:VAL:H	2:9:177:THR:HG1	1.42	0.66
2:9:48:LYS:HA	2:9:53:VAL:HA	1.78	0.66
12:E:240:ILE:HA	12:E:243:LEU:CD1	2.25	0.66
13:F:11:VAL:HG21	14:G:128:SER:CA	2.26	0.66
14:G:52:LYS:NZ	14:G:62:GLN:HA	2.10	0.66
15:H:66:LYS:HA	15:H:69:VAL:HB	1.77	0.66
15:H:319:PHE:HD1	20:M:249:PRO:HA	1.59	0.66
17:J:43:ARG:CZ	26:S:476:LEU:O	2.44	0.66
18:K:326:PRO:HA	18:K:329:LEU:HB2	1.77	0.66
19:L:221:TYR:HE2	19:L:346:LYS:HG2	1.61	0.66
21:N:90:ASP:N	21:N:93:GLU:OE1	2.28	0.66
22:O:19:ASP:HB3	22:O:72:LYS:HZ2	1.60	0.66
23:P:107:SER:HB2	23:P:111:ASP:HB3	1.75	0.66
23:P:422:LEU:HD23	23:P:425:HIS:HB3	1.77	0.66
24:Q:20:TYR:CE1	24:Q:68:MET:HB2	2.31	0.66
24:Q:109:ASP:OD2	24:Q:113:ASP:HB2	1.94	0.66
25:R:219:LEU:HB2	25:R:223:ASN:ND2	2.11	0.66
26:S:453:ASP:HA	28:U:267:VAL:HG13	1.77	0.66
27:T:74:ASN:OD1	27:T:75:PHE:N	2.29	0.66
27:T:206:LYS:NZ	27:T:212:ASN:O	2.19	0.66
33:Z:319:THR:HG21	33:Z:875:LYS:HB2	1.77	0.66
33:Z:509:LEU:HD13	33:Z:526:ALA:HB1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:19:GLY:O	9:b:23:TYR:N	2.27	0.66
11:d:70:HIS:HE1	11:d:103:PRO:HB2	1.61	0.66
11:d:199:LEU:HD13	11:d:210:ILE:HG23	1.78	0.66
4:i:40:GLY:HA2	4:i:137:SER:HB3	1.78	0.66
5:j:125:ASP:OD1	5:j:128:GLY:N	2.29	0.66
6:k:41:HIS:NE2	6:k:186:LYS:O	2.28	0.66
3:3:22:ILE:O	3:3:146:ALA:N	2.27	0.66
3:3:155:GLY:HA2	3:h:180:GLN:NE2	2.04	0.66
4:4:236:ARG:CZ	5:5:161:GLU:HB2	2.26	0.66
5:5:58:THR:OG1	6:6:123:GLY:O	2.10	0.66
5:5:125:ASP:OD1	5:5:128:GLY:N	2.29	0.66
8:A:143:PHE:N	8:A:155:TYR:O	2.27	0.66
16:I:217:LYS:HE2	16:I:343:ARG:HB3	1.78	0.66
16:I:265:ARG:O	16:I:269:LYS:N	2.28	0.66
18:K:128:ARG:NH2	29:V:267:LYS:HZ1	1.94	0.66
22:O:2:PHE:HA	22:O:5:HIS:HD2	1.59	0.66
22:O:8:ASP:OD2	22:O:58:ARG:NH1	2.28	0.66
22:O:311:GLU:C	22:O:315:LYS:HZ3	2.04	0.66
23:P:178:GLN:O	23:P:181:LEU:HB3	1.96	0.66
24:Q:28:LEU:O	24:Q:32:ASP:N	2.29	0.66
24:Q:79:PRO:HG3	24:Q:124:PHE:HE2	1.60	0.66
24:Q:121:SER:HA	24:Q:124:PHE:HB2	1.78	0.66
25:R:172:LEU:HG	25:R:209:ARG:NH1	2.11	0.66
25:R:296:LEU:O	25:R:299:SER:N	2.27	0.66
28:U:232:VAL:HG13	28:U:235:LEU:HD12	1.78	0.66
33:Z:405:ASN:HA	33:Z:408:TYR:HB2	1.78	0.66
8:a:143:PHE:N	8:a:155:TYR:O	2.27	0.66
3:h:194:MET:HB2	3:h:205:LEU:HB2	1.78	0.66
4:i:30:THR:HG23	4:i:62:LYS:NZ	2.09	0.66
1:1:127:HIS:ND1	1:1:144:PHE:O	2.28	0.65
2:2:94:GLN:HB3	3:h:102:LYS:NZ	2.11	0.65
3:3:21:SER:OG	3:3:149:GLY:N	2.29	0.65
5:5:125:ASP:OD1	5:5:129:CYS:N	2.28	0.65
6:6:99:GLN:HG2	6:6:121:TYR:CD2	2.31	0.65
2:9:230:LEU:O	2:9:242:LYS:N	2.30	0.65
8:A:200:GLU:OE1	8:A:200:GLU:N	2.21	0.65
11:D:13:PRO:HA	12:E:26:TYR:CE1	2.29	0.65
12:E:14:THR:HG23	13:F:21:GLN:HE22	1.61	0.65
13:F:13:PHE:N	14:G:23:GLN:HE22	1.94	0.65
14:G:151:LEU:HD13	14:G:157:TYR:HD1	1.61	0.65
16:I:148:LEU:HG	16:I:160:LEU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:128:ARG:NH2	29:V:267:LYS:NZ	2.44	0.65
18:K:154:SER:HA	18:K:253:MET:HE2	1.78	0.65
19:L:171:THR:HB	19:L:245:PHE:HB3	1.78	0.65
20:M:187:ASP:HA	20:M:190:ILE:HB	1.76	0.65
20:M:244:LEU:O	20:M:279:PHE:N	2.22	0.65
22:O:168:THR:O	22:O:172:TYR:N	2.25	0.65
22:O:320:PRO:HD2	22:O:323:ASN:HD22	1.60	0.65
23:P:40:LEU:C	23:P:44:LYS:NZ	2.53	0.65
25:R:110:ILE:O	25:R:113:LEU:HG	1.96	0.65
28:U:276:ILE:CB	29:V:291:ASN:ND2	2.59	0.65
30:W:21:PHE:CZ	30:W:28:ALA:HB1	2.31	0.65
30:W:149:GLN:O	30:W:154:LEU:HD12	1.95	0.65
31:X:109:LEU:HB2	31:X:118:ASP:OD2	1.96	0.65
8:a:200:GLU:OE1	8:a:200:GLU:N	2.21	0.65
10:c:143:ARG:CZ	6:k:73:TYR:HB2	2.26	0.65
11:d:141:ARG:NE	7:l:182:LYS:HD2	2.07	0.65
3:h:172:ASP:C	3:h:176:HIS:HD1	2.04	0.65
3:h:203:GLU:OE2	3:h:205:LEU:HD21	1.96	0.65
5:j:74:TYR:CZ	5:j:78:GLU:HG3	2.31	0.65
6:k:143:LEU:HD13	6:k:163:LEU:HG	1.77	0.65
7:l:94:ARG:HB2	7:l:247:GLY:C	2.21	0.65
3:3:39:THR:O	3:3:46:ALA:N	2.29	0.65
5:5:74:TYR:CZ	5:5:78:GLU:HG3	2.31	0.65
8:A:26:TYR:HB3	8:A:30:TYR:CZ	2.31	0.65
15:H:244:LYS:HB3	15:H:346:ARG:NE	2.10	0.65
16:I:192:GLN:HA	16:I:195:LYS:HB3	1.76	0.65
16:I:254:GLN:HE21	16:I:256:TYR:H	1.43	0.65
17:J:275:LEU:O	17:J:279:LEU:N	2.26	0.65
19:L:221:TYR:HA	19:L:327:THR:O	1.96	0.65
21:N:630:ALA:HA	21:N:663:ILE:HA	1.78	0.65
22:O:383:LYS:HZ3	27:T:262:LYS:HZ1	1.44	0.65
23:P:114:THR:O	23:P:118:VAL:HG23	1.96	0.65
23:P:286:ASN:OD1	23:P:287:ASP:N	2.29	0.65
24:Q:20:TYR:HB3	24:Q:64:LEU:HD13	1.77	0.65
24:Q:416:VAL:HG11	25:R:406:GLN:HB3	1.77	0.65
25:R:109:LYS:HA	25:R:112:GLU:OE1	1.96	0.65
25:R:153:THR:O	25:R:157:SER:N	2.28	0.65
26:S:335:GLN:C	26:S:337:ASN:HD22	2.04	0.65
27:T:61:ILE:HA	27:T:64:VAL:HB	1.77	0.65
29:V:247:ILE:O	29:V:251:TYR:N	2.19	0.65
33:Z:342:LEU:N	33:Z:345:GLU:HB2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:114:VAL:HA	9:b:117:ILE:HD12	1.78	0.65
14:g:151:LEU:HD13	14:g:157:TYR:HD1	1.61	0.65
3:h:15:GLU:OE1	3:h:69:ALA:HB3	1.97	0.65
3:h:39:THR:O	3:h:46:ALA:N	2.29	0.65
6:k:99:GLN:HA	6:k:121:TYR:HB2	1.78	0.65
6:k:99:GLN:HG2	6:k:121:TYR:CD2	2.31	0.65
1:1:212:GLU:HG3	4:4:225:ARG:HD2	1.79	0.65
2:2:110:ASP:HB3	13:f:110:HIS:CE1	2.30	0.65
3:3:203:GLU:OE2	3:3:205:LEU:HD21	1.96	0.65
5:5:135:ASP:OD1	5:5:136:PHE:N	2.27	0.65
6:6:15:LEU:HD11	6:6:105:GLY:HA3	1.76	0.65
6:6:82:SER:CA	6:6:125:LYS:HZ3	2.10	0.65
2:9:124:TYR:HA	13:F:99:PHE:O	1.96	0.65
11:D:22:TYR:HA	11:D:25:GLU:HG2	1.76	0.65
17:J:53:ASP:N	21:N:611:LYS:NZ	2.44	0.65
17:J:238:ARG:HG2	17:J:288:ILE:HD13	1.79	0.65
18:K:251:PRO:HA	18:K:254:VAL:HB	1.78	0.65
18:K:251:PRO:HG2	18:K:294:ARG:HB3	1.78	0.65
18:K:273:GLU:H	18:K:317:ALA:HB3	1.59	0.65
18:K:342:SER:HB2	18:K:344:ARG:NH1	2.11	0.65
21:N:444:HIS:O	21:N:448:LEU:N	2.29	0.65
22:O:89:SER:OG	22:O:94:GLU:OE1	2.13	0.65
22:O:133:ILE:O	22:O:136:THR:OG1	2.11	0.65
22:O:239:MET:O	22:O:242:ILE:N	2.29	0.65
22:O:338:LYS:NZ	22:O:352:TRP:C	2.55	0.65
23:P:113:ASN:O	23:P:117:SER:N	2.28	0.65
23:P:177:ILE:HB	23:P:203:ILE:HD11	1.79	0.65
23:P:410:GLN:O	23:P:413:ASN:N	2.29	0.65
24:Q:76:GLU:HA	24:Q:120:LYS:HZ1	1.61	0.65
25:R:76:GLN:HB3	25:R:84:LYS:HB3	1.79	0.65
29:V:160:ASP:OD2	29:V:184:ASN:HA	1.95	0.65
29:V:244:MET:O	29:V:247:ILE:HG12	1.96	0.65
9:b:118:MET:HE2	9:b:152:PRO:HA	1.79	0.65
10:c:187:ASP:HA	10:c:190:ILE:HD12	1.78	0.65
12:e:123:PHE:HA	12:e:134:MET:HB3	1.77	0.65
13:f:46:LEU:N	13:f:214:ALA:O	2.25	0.65
13:f:69:HIS:HB2	13:f:137:TYR:O	1.96	0.65
5:j:46:TYR:N	5:j:49:VAL:O	2.25	0.65
7:l:155:SER:OG	7:l:196:ARG:NH2	2.29	0.65
1:1:179:TYR:N	4:4:238:THR:O	2.24	0.65
5:5:34:LEU:HD22	6:6:138:PHE:HE1	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:220:LYS:H	7:7:223:LEU:HD13	1.60	0.65
1:8:127:HIS:ND1	1:8:144:PHE:O	2.28	0.65
10:C:20:TYR:HB3	10:C:24:TYR:CZ	2.32	0.65
12:E:18:GLU:OE1	12:E:18:GLU:N	2.21	0.65
13:F:186:PRO:O	13:F:190:ILE:N	2.23	0.65
14:G:201:TYR:HB3	14:G:247:ILE:HD12	1.78	0.65
15:H:101:ARG:N	15:H:173:ARG:HD2	2.09	0.65
15:H:307:PHE:CZ	15:H:354:ALA:HB2	2.32	0.65
16:I:280:PHE:HE2	16:I:282:ASP:HB2	1.62	0.65
17:J:67:GLU:OE2	18:K:144:ASN:HB3	1.96	0.65
20:M:74:GLN:NE2	20:M:77:TYR:HA	2.12	0.65
21:N:176:GLN:HG2	21:N:218:PRO:HB2	1.77	0.65
22:O:327:LEU:HA	22:O:330:ARG:HH11	1.62	0.65
26:S:434:ALA:HA	26:S:446:THR:HG23	1.79	0.65
27:T:49:ASP:HB3	27:T:53:ASN:HB2	1.77	0.65
27:T:148:LEU:HD11	27:T:164:LEU:HD21	1.79	0.65
29:V:79:SER:OG	29:V:82:ALA:N	2.24	0.65
30:W:37:PHE:HZ	30:W:68:GLU:N	1.94	0.65
30:W:114:VAL:HB	30:W:143:ASN:HA	1.78	0.65
31:X:23:LEU:HD22	31:X:25:THR:HG23	1.78	0.65
33:Z:208:VAL:HG11	33:Z:235:GLN:HB3	1.76	0.65
33:Z:478:VAL:HA	33:Z:489:ALA:HB1	1.77	0.65
8:a:26:TYR:HB3	8:a:30:TYR:CZ	2.31	0.65
10:c:91:ALA:HB2	10:c:115:LEU:HD11	1.79	0.65
11:d:139:ASP:HB2	11:d:142:ASP:HB3	1.77	0.65
13:f:197:ILE:O	13:f:201:LEU:N	2.28	0.65
4:i:143:HIS:HB2	4:i:147:SER:OG	1.97	0.65
2:2:136:ARG:NH2	2:2:141:ASN:OD1	2.28	0.65
2:2:264:GLN:NE2	2:2:266:ILE:O	2.28	0.65
1:8:48:ASN:O	1:8:55:ASN:N	2.29	0.65
10:C:147:GLN:HB3	10:C:149:TYR:CE1	2.32	0.65
16:I:186:GLY:N	16:I:360:LYS:HD3	2.11	0.65
17:J:39:GLU:HB3	26:S:480:ARG:NE	2.12	0.65
17:J:85:LEU:HD12	17:J:95:ILE:HD12	1.77	0.65
17:J:251:ASP:CG	17:J:293:ALA:H	2.05	0.65
19:L:132:ARG:HG2	19:L:133:ASN:HD22	1.62	0.65
21:N:760:GLY:HA3	21:N:769:PRO:O	1.97	0.65
22:O:156:THR:O	22:O:160:LYS:HD3	1.97	0.65
27:T:257:THR:HG21	29:V:295:VAL:HG11	1.79	0.65
28:U:195:LYS:HD3	29:V:233:LYS:H	1.60	0.65
29:V:37:MET:HB3	29:V:108:TYR:CZ	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:4:GLU:HB2	30:W:107:HIS:O	1.96	0.65
8:a:94:ALA:O	8:a:98:LYS:N	2.27	0.65
9:b:215:GLY:N	9:b:234:ARG:O	2.28	0.65
13:f:39:ARG:HA	13:f:44:ALA:HA	1.78	0.65
8:A:55:SER:N	8:A:224:GLU:O	2.28	0.65
8:A:89:ASP:HA	14:G:121:GLN:HE22	1.62	0.65
8:A:154:ILE:HD12	8:A:168:ALA:HA	1.77	0.65
11:D:139:ASP:HB2	11:D:142:ASP:HB3	1.77	0.65
12:E:205:LYS:HZ1	12:E:211:LYS:CE	2.09	0.65
15:H:191:ILE:HG13	15:H:192:ASP:HB3	1.79	0.65
15:H:390:ARG:O	15:H:393:SER:OG	2.11	0.65
16:I:220:ILE:HA	16:I:326:MET:HB2	1.79	0.65
17:J:219:VAL:HG11	17:J:267:GLU:HG2	1.77	0.65
17:J:266:SER:O	17:J:270:ARG:N	2.19	0.65
18:K:278:ALA:HB1	18:K:324:LEU:HA	1.77	0.65
20:M:228:LYS:HZ1	20:M:327:THR:H	1.45	0.65
20:M:276:THR:N	20:M:320:ARG:O	2.21	0.65
20:M:362:GLN:O	20:M:366:ARG:N	2.30	0.65
20:M:405:ASN:ND2	20:M:411:LYS:HZ3	1.95	0.65
21:N:90:ASP:HB3	21:N:93:GLU:HG3	1.78	0.65
22:O:14:LEU:O	22:O:15:ARG:HB2	1.96	0.65
22:O:29:PHE:HA	22:O:32:PHE:HB3	1.77	0.65
23:P:141:LYS:O	23:P:145:GLU:N	2.22	0.65
25:R:373:PRO:CD	26:S:395:ILE:HG22	2.27	0.65
26:S:293:ILE:CG2	26:S:297:ILE:HD12	2.22	0.65
26:S:424:SER:HB3	27:T:192:ASN:HB3	1.78	0.65
27:T:174:PHE:CE1	27:T:177:PHE:HD2	2.15	0.65
27:T:181:LEU:O	27:T:185:ILE:N	2.21	0.65
29:V:47:MET:O	29:V:110:SER:OG	2.15	0.65
33:Z:326:VAL:O	33:Z:330:ILE:N	2.28	0.65
33:Z:488:ALA:HA	33:Z:491:LEU:HB2	1.79	0.65
8:a:55:SER:N	8:a:224:GLU:O	2.28	0.65
10:c:38:ILE:HG12	10:c:162:ALA:HB1	1.79	0.65
14:g:193:VAL:HG12	14:g:239:ALA:HB2	1.79	0.65
5:j:75:LYS:HA	5:j:78:GLU:HB2	1.78	0.65
4:4:37:PHE:N	4:4:40:GLY:O	2.30	0.65
4:4:40:GLY:HA2	4:4:137:SER:HB3	1.79	0.65
7:7:94:ARG:HB2	7:7:247:GLY:C	2.21	0.65
1:8:62:VAL:HA	1:8:72:SER:HB2	1.78	0.65
10:C:172:ALA:O	10:C:176:LEU:N	2.20	0.65
10:C:181:LYS:HZ3	10:C:184:MET:HG2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:67:ILE:N	14:G:215:GLU:OE2	2.30	0.65
15:H:171:GLY:C	15:H:173:ARG:H	2.02	0.65
15:H:243:PRO:HB3	15:H:372:ASP:HB2	1.79	0.65
19:L:251:ILE:HG22	19:L:259:SER:HA	1.78	0.65
21:N:497:ALA:O	21:N:501:MET:N	2.22	0.65
22:O:179:PHE:HA	22:O:182:LYS:HD3	1.79	0.65
23:P:163:LEU:O	23:P:167:THR:OG1	2.07	0.65
23:P:266:TYR:O	23:P:270:LEU:HG	1.97	0.65
23:P:391:ALA:O	23:P:403:GLU:HB2	1.97	0.65
25:R:174:ILE:HA	25:R:177:LEU:HD12	1.79	0.65
25:R:178:GLY:HA2	25:R:183:ASP:HB2	1.79	0.65
25:R:352:SER:O	25:R:356:ALA:HB3	1.96	0.65
25:R:372:ILE:CG2	26:S:395:ILE:N	2.50	0.65
26:S:257:LEU:HB2	26:S:260:PRO:HD3	1.77	0.65
33:Z:353:VAL:O	33:Z:357:ILE:N	2.30	0.65
8:a:73:PHE:O	8:a:81:MET:N	2.27	0.65
14:g:67:ILE:N	14:g:215:GLU:OE2	2.30	0.65
5:j:16:THR:HG22	5:j:21:VAL:HG12	1.78	0.65
1:1:110:ARG:HG3	12:e:102:TYR:O	1.95	0.65
3:3:166:SER:N	3:3:169:GLU:OE1	2.28	0.65
3:3:194:MET:HB2	3:3:205:LEU:HB2	1.78	0.65
4:4:236:ARG:HH21	5:5:162:ASP:H	1.43	0.65
6:6:99:GLN:HA	6:6:121:TYR:HB2	1.78	0.65
6:6:172:MET:HE2	6:6:174:MET:HB2	1.79	0.65
2:9:42:THR:HG22	2:9:74:ARG:NE	2.12	0.65
10:C:14:SER:N	10:C:18:ARG:O	2.21	0.65
10:C:195:LYS:HZ3	10:C:244:ILE:HG13	1.61	0.65
12:E:128:SER:HB3	13:F:119:ASN:HA	1.79	0.65
14:G:222:SER:O	14:G:225:ASN:ND2	2.30	0.65
18:K:92:VAL:O	18:K:94:LEU:N	2.28	0.65
19:L:354:GLU:OE1	19:L:357:ARG:NH2	2.27	0.65
20:M:134:LEU:HB2	20:M:156:LEU:O	1.97	0.65
21:N:6:ALA:O	21:N:10:LEU:N	2.23	0.65
21:N:398:ARG:HH21	21:N:442:LEU:HD22	1.62	0.65
22:O:336:LEU:HG	22:O:353:VAL:HG13	1.77	0.65
23:P:42:LEU:HD11	23:P:88:GLN:NE2	2.11	0.65
23:P:173:MET:O	23:P:177:ILE:N	2.23	0.65
23:P:218:LEU:HA	23:P:221:TYR:HB3	1.78	0.65
23:P:381:SER:HA	23:P:384:VAL:HB	1.79	0.65
24:Q:388:GLY:HA2	24:Q:400:TYR:HB3	1.79	0.65
25:R:65:TYR:O	25:R:69:GLU:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:154:LEU:O	25:R:158:LEU:N	2.19	0.65
25:R:188:LYS:HD3	25:R:217:HIS:HB3	1.78	0.65
25:R:285:ALA:C	25:R:286:LEU:CG	2.69	0.65
26:S:24:LYS:O	26:S:26:ALA:N	2.30	0.65
26:S:305:LYS:O	26:S:309:PHE:HB3	1.96	0.65
26:S:338:MET:HB2	26:S:343:LEU:H	1.61	0.65
26:S:342:LEU:O	26:S:345:TYR:N	2.30	0.65
26:S:481:TYR:HB3	28:U:299:LYS:NZ	2.12	0.65
26:S:482:PRO:HB2	26:S:486:LYS:HE3	1.78	0.65
28:U:37:ILE:HG12	28:U:92:TRP:N	2.12	0.65
28:U:56:PHE:CD1	28:U:68:LEU:HB2	2.32	0.65
33:Z:168:GLN:HG3	33:Z:196:SER:HA	1.79	0.65
33:Z:799:PHE:HA	33:Z:802:ASP:HB2	1.77	0.65
5:j:74:TYR:CE2	5:j:78:GLU:HG3	2.32	0.65
7:l:110:ILE:HD11	7:l:120:MET:HE3	1.79	0.65
1:1:141:VAL:HB	1:1:153:GLU:O	1.97	0.65
2:2:220:ARG:NH1	3:3:46:ALA:O	2.29	0.65
5:5:98:ARG:HB3	5:5:102:PRO:HA	1.79	0.65
2:9:92:ASP:OD2	2:9:144:TRP:N	2.21	0.65
2:9:226:ARG:NH2	2:9:248:GLU:OE1	2.30	0.65
8:A:69:VAL:HA	14:G:158:TRP:HZ3	1.60	0.65
9:B:19:GLY:O	9:B:23:TYR:N	2.27	0.65
10:C:34:THR:HA	10:C:166:GLY:HA3	1.76	0.65
12:E:74:ILE:HG12	12:E:109:VAL:HG22	1.79	0.65
12:E:226:ASP:O	12:E:229:LYS:HE2	1.97	0.65
17:J:190:PRO:HG2	17:J:319:PRO:N	2.12	0.65
17:J:346:VAL:HG22	17:J:383:GLU:HG3	1.79	0.65
19:L:64:LEU:HD23	20:M:5:GLU:OE2	1.97	0.65
19:L:364:HIS:HB3	19:L:392:ARG:CG	2.27	0.65
20:M:29:GLU:O	20:M:33:ARG:N	2.15	0.65
20:M:173:ASP:HB3	20:M:243:PHE:HD2	1.62	0.65
21:N:253:LEU:HB2	21:N:906:ARG:HH22	1.62	0.65
21:N:512:ASN:OD1	21:N:515:ARG:NH1	2.29	0.65
21:N:880:ARG:NE	21:N:898:GLY:O	2.25	0.65
22:O:41:LEU:HG	22:O:50:ASP:O	1.96	0.65
23:P:42:LEU:HD22	23:P:59:LEU:HD13	1.78	0.65
23:P:183:GLN:O	23:P:187:SER:N	2.24	0.65
23:P:306:ASN:HA	23:P:310:ARG:CZ	2.27	0.65
24:Q:62:GLY:O	24:Q:66:VAL:N	2.25	0.65
26:S:185:PHE:CD1	26:S:188:TYR:HB2	2.31	0.65
26:S:230:LYS:O	26:S:233:LEU:N	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:267:VAL:HG12	28:U:271:ASP:OD2	1.97	0.65
33:Z:106:TRP:HA	33:Z:112:LYS:HD3	1.79	0.65
33:Z:483:THR:OG1	33:Z:519:PRO:O	2.10	0.65
11:d:37:LYS:HB2	11:d:145:PRO:HB2	1.79	0.65
13:f:48:ALA:N	13:f:212:SER:O	2.20	0.65
3:h:92:PRO:HB2	3:h:96:THR:HB	1.78	0.65
6:k:82:SER:CA	6:k:125:LYS:HZ3	2.10	0.65
7:l:83:PHE:HZ	7:l:225:VAL:HG22	1.61	0.65
1:1:225:ILE:O	1:1:232:ARG:N	2.21	0.65
2:2:113:LEU:HB3	2:2:116:ALA:HB3	1.79	0.65
6:6:119:ILE:HG12	6:6:125:LYS:HA	1.78	0.65
6:6:167:GLU:OE1	7:l:216:ASP:HB2	1.97	0.65
6:6:171:ARG:NE	7:l:216:ASP:OD2	2.21	0.65
11:D:107:GLU:O	11:D:111:ARG:N	2.27	0.65
11:D:199:LEU:HD13	11:D:210:ILE:HG23	1.78	0.65
15:H:104:LYS:H	15:H:144:LYS:HE3	1.62	0.65
15:H:143:ALA:N	20:M:74:GLN:HA	2.12	0.65
17:J:272:MET:O	17:J:276:LEU:N	2.30	0.65
19:L:145:ARG:HG2	19:L:159:LEU:HB2	1.79	0.65
19:L:402:ALA:HA	19:L:407:ARG:HB2	1.79	0.65
20:M:396:VAL:HG12	20:M:400:MET:HE2	1.79	0.65
21:N:489:MET:HB3	21:N:493:GLY:HA2	1.79	0.65
22:O:295:THR:HA	22:O:298:GLU:HB3	1.78	0.65
23:P:118:VAL:O	23:P:121:THR:OG1	2.14	0.65
24:Q:26:VAL:O	24:Q:30:LEU:N	2.29	0.65
24:Q:109:ASP:HB3	24:Q:114:GLN:HE21	1.62	0.65
24:Q:276:ASP:O	24:Q:280:ASN:N	2.20	0.65
24:Q:430:ALA:HB1	28:U:296:ILE:CG2	2.27	0.65
25:R:211:LYS:O	25:R:215:GLY:N	2.26	0.65
26:S:455:GLU:O	26:S:459:GLN:HG2	1.97	0.65
26:S:473:ASP:O	26:S:477:VAL:HG23	1.96	0.65
30:W:163:ASN:HB3	30:W:164:PRO:HD3	1.77	0.65
33:Z:524:ALA:HB1	33:Z:565:PHE:CG	2.32	0.65
8:a:110:TYR:CD1	4:i:104:ARG:HD2	2.31	0.65
10:c:79:GLY:HA3	10:c:133:VAL:HA	1.78	0.65
12:e:226:ASP:O	12:e:229:LYS:HE2	1.97	0.65
14:g:138:PHE:CZ	14:g:149:TYR:HB2	2.32	0.65
4:i:35:VAL:HA	4:i:153:TYR:HA	1.79	0.65
2:2:230:LEU:O	2:2:242:LYS:N	2.30	0.64
5:5:201:LYS:HE3	7:l:273:TRP:CG	2.33	0.64
8:A:89:ASP:HA	14:G:121:GLN:NE2	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:187:ASP:HA	10:C:190:ILE:HD12	1.78	0.64
12:E:243:LEU:O	12:E:247:GLU:HB2	1.96	0.64
15:H:69:VAL:O	15:H:72:SER:OG	2.11	0.64
16:I:372:SER:N	16:I:411:VAL:O	2.30	0.64
17:J:156:GLN:HG2	17:J:316:PHE:HB2	1.74	0.64
17:J:252:SER:HB2	17:J:295:ASN:H	1.62	0.64
20:M:368:MET:HE2	20:M:399:GLY:HA3	1.78	0.64
21:N:443:LEU:O	21:N:447:SER:N	2.22	0.64
21:N:717:LEU:HD13	21:N:729:SER:HB2	1.79	0.64
21:N:761:ILE:HB	21:N:904:VAL:HA	1.79	0.64
22:O:11:LEU:CD2	22:O:14:LEU:HB3	2.26	0.64
23:P:46:THR:HG21	23:P:88:GLN:HG2	1.79	0.64
25:R:373:PRO:HB3	26:S:394:ILE:HG21	1.78	0.64
28:U:77:ASN:O	28:U:81:LYS:N	2.24	0.64
33:Z:391:ASN:CG	33:Z:396:ASN:HB2	2.21	0.64
33:Z:868:ASN:HB3	33:Z:909:ARG:HH12	1.62	0.64
10:c:100:LYS:HA	5:j:68:ARG:HH22	1.61	0.64
10:c:142:ASP:OD2	6:k:110:LYS:HE3	1.97	0.64
10:c:143:ARG:NH1	6:k:73:TYR:HB2	2.12	0.64
10:c:144:TYR:HB2	10:c:147:GLN:HE21	1.62	0.64
14:g:37:SER:N	14:g:165:THR:O	2.29	0.64
3:h:55:ARG:NH2	3:h:58:ASP:OD1	2.29	0.64
5:j:9:GLY:HA3	5:j:180:LEU:HB3	1.79	0.64
2:2:204:GLN:CD	2:2:204:GLN:H	2.04	0.64
3:3:15:GLU:OE1	3:3:69:ALA:HB3	1.97	0.64
4:4:113:LYS:O	4:4:117:PHE:N	2.24	0.64
6:6:152:MET:HA	6:6:156:GLU:OE1	1.97	0.64
7:7:83:PHE:HZ	7:7:225:VAL:HG22	1.61	0.64
2:9:204:GLN:CD	2:9:204:GLN:H	2.04	0.64
2:9:264:GLN:NE2	2:9:266:ILE:O	2.28	0.64
11:D:26:ALA:HA	11:D:29:ARG:HH11	1.62	0.64
12:E:62:ASP:OD1	12:E:63:SER:N	2.28	0.64
14:G:91:ARG:HA	14:G:94:GLU:CD	2.22	0.64
15:H:172:MET:HG3	16:I:130:VAL:HG12	1.80	0.64
18:K:404:GLN:NE2	18:K:408:GLU:OE2	2.31	0.64
19:L:369:LYS:HE2	19:L:409:HIS:HB3	1.78	0.64
20:M:194:VAL:HG13	20:M:198:VAL:HB	1.78	0.64
21:N:175:ASP:H	21:N:182:ASN:HD22	1.43	0.64
21:N:693:GLY:O	21:N:697:PHE:HB2	1.97	0.64
21:N:897:LYS:HG2	21:N:899:ASN:ND2	2.12	0.64
22:O:191:THR:HA	22:O:194:LEU:HD12	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:102:GLU:O	23:P:106:SER:N	2.31	0.64
23:P:141:LYS:HA	23:P:144:VAL:HB	1.78	0.64
26:S:411:LEU:O	26:S:414:ASP:N	2.30	0.64
26:S:482:PRO:CD	28:U:295:LYS:HB3	2.27	0.64
28:U:21:HIS:HD1	28:U:93:TYR:HH	1.45	0.64
28:U:57:GLU:OE1	30:W:100:HIS:NE2	2.29	0.64
29:V:144:ILE:O	29:V:147:VAL:HG22	1.97	0.64
29:V:230:TYR:HB3	29:V:234:GLU:OE1	1.98	0.64
33:Z:183:LYS:NZ	33:Z:292:ASP:OD2	2.31	0.64
11:d:26:ALA:HA	11:d:29:ARG:HH11	1.62	0.64
14:g:91:ARG:HA	14:g:94:GLU:CD	2.22	0.64
14:g:170:GLN:OE1	14:g:170:GLN:N	2.25	0.64
4:i:70:ILE:HG12	4:i:131:GLY:HA3	1.79	0.64
1:1:56:SER:OG	1:1:58:TYR:O	2.15	0.64
1:1:168:PHE:HD2	1:1:169:LEU:HD12	1.62	0.64
5:5:121:ILE:HD12	5:5:137:ILE:HG12	1.78	0.64
6:6:70:ARG:HA	11:D:90:ARG:NH1	2.13	0.64
7:7:112:ILE:HB	7:7:116:LEU:HB2	1.79	0.64
1:8:23:PRO:O	2:9:137:ARG:NH1	2.31	0.64
1:8:141:VAL:HB	1:8:153:GLU:O	1.97	0.64
1:8:168:PHE:HD2	1:8:169:LEU:HD12	1.62	0.64
16:I:310:LEU:HD13	16:I:338:LEU:HD12	1.77	0.64
16:I:362:LEU:HD21	16:I:384:LYS:HZ2	1.62	0.64
17:J:55:VAL:HG22	18:K:79:LEU:HB2	1.79	0.64
18:K:51:LEU:HB3	18:K:55:GLU:HB2	1.78	0.64
18:K:388:GLN:HB3	19:L:213:LYS:HG3	1.78	0.64
19:L:183:ILE:HG22	19:L:364:HIS:CE1	2.32	0.64
20:M:72:ASN:HB3	20:M:73:ARG:HG3	1.79	0.64
20:M:221:TYR:HB2	20:M:329:ARG:HA	1.79	0.64
21:N:18:ASP:HB3	21:N:55:PHE:HD1	1.61	0.64
21:N:614:ASN:HD22	21:N:617:VAL:HG23	1.62	0.64
21:N:761:ILE:O	21:N:762:ARG:HG3	1.98	0.64
22:O:189:TYR:HE2	22:O:232:GLU:OE2	1.81	0.64
23:P:181:LEU:O	23:P:185:GLU:N	2.27	0.64
26:S:140:LEU:O	26:S:144:LEU:HG	1.97	0.64
26:S:199:GLU:O	26:S:203:SER:HA	1.97	0.64
26:S:356:ASP:O	26:S:360:PHE:N	2.17	0.64
26:S:378:GLN:N	26:S:378:GLN:OE1	2.30	0.64
26:S:410:LYS:O	26:S:413:LEU:HB3	1.97	0.64
27:T:193:THR:O	27:T:197:TYR:N	2.28	0.64
27:T:257:THR:CG2	29:V:295:VAL:HG11	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:126:LYS:C	29:V:208:LYS:NZ	2.53	0.64
28:U:284:SER:O	28:U:288:PHE:N	2.19	0.64
33:Z:366:LYS:HE2	33:Z:369:PHE:CE2	2.32	0.64
11:d:96:HIS:NE2	11:d:100:LEU:HD22	2.13	0.64
12:e:201:LEU:HD13	12:e:219:LEU:HD11	1.78	0.64
14:g:222:SER:O	14:g:225:ASN:ND2	2.30	0.64
5:j:8:ASN:OD1	5:j:57:ALA:N	2.24	0.64
4:4:70:ILE:HG12	4:4:131:GLY:HA3	1.79	0.64
4:4:143:HIS:HB2	4:4:147:SER:OG	1.96	0.64
5:5:74:TYR:CE2	5:5:78:GLU:HG3	2.32	0.64
6:6:158:LEU:HA	6:6:161:LEU:HD12	1.79	0.64
7:7:128:GLN:HG2	1:8:113:GLN:HE22	1.62	0.64
9:B:118:MET:HE2	9:B:152:PRO:HA	1.78	0.64
9:B:215:GLY:N	9:B:234:ARG:O	2.28	0.64
10:C:13:PHE:H	11:D:19:GLN:NE2	1.91	0.64
10:C:91:ALA:HB2	10:C:115:LEU:HD11	1.79	0.64
11:D:37:LYS:HB2	11:D:145:PRO:HB2	1.79	0.64
11:D:160:SER:HB2	12:E:58:LEU:HA	1.78	0.64
12:E:201:LEU:HD13	12:E:219:LEU:HD11	1.78	0.64
15:H:155:PHE:CE2	20:M:150:LYS:NZ	2.66	0.64
15:H:337:ILE:HA	15:H:370:ARG:NH2	2.12	0.64
18:K:262:ARG:HA	18:K:265:ALA:HB2	1.79	0.64
19:L:221:TYR:CE2	19:L:346:LYS:HG2	2.31	0.64
21:N:185:ILE:HA	21:N:188:TYR:CD2	2.32	0.64
21:N:742:TRP:CE2	21:N:744:PRO:HD2	2.32	0.64
22:O:341:ILE:O	23:P:358:SER:N	2.30	0.64
23:P:222:ASN:C	23:P:226:LYS:NZ	2.54	0.64
23:P:234:TYR:HA	23:P:237:VAL:HB	1.79	0.64
24:Q:98:LYS:HZ3	24:Q:140:LYS:HZ1	1.43	0.64
25:R:207:ARG:C	25:R:211:LYS:HZ3	2.05	0.64
25:R:382:ASP:HB3	25:R:387:ILE:H	1.61	0.64
26:S:167:LEU:HA	26:S:171:TYR:CE1	2.32	0.64
26:S:387:VAL:HA	26:S:390:THR:HB	1.79	0.64
28:U:28:LYS:NZ	28:U:31:LYS:HZ1	1.95	0.64
33:Z:138:ARG:HE	33:Z:158:ALA:HB2	1.62	0.64
33:Z:333:GLY:HA3	33:Z:341:TYR:HB2	1.79	0.64
8:a:14:ARG:O	8:a:27:GLN:NE2	2.21	0.64
9:b:213:ILE:N	9:b:236:ARG:O	2.22	0.64
10:c:238:ILE:HD12	10:c:241:LYS:HB2	1.78	0.64
13:f:148:GLN:N	13:f:152:ASN:O	2.30	0.64
6:k:1:MET:HA	6:k:1:MET:CE	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:152:MET:HA	6:k:156:GLU:OE1	1.97	0.64
1:1:212:GLU:HB3	4:4:58:LYS:NZ	2.11	0.64
6:6:22:THR:HG21	6:k:173:PRO:HG3	1.79	0.64
8:A:244:ARG:O	8:A:248:ILE:CG1	2.46	0.64
9:B:16:GLY:HA2	10:C:24:TYR:HB3	1.79	0.64
10:C:147:GLN:HB3	10:C:149:TYR:HE1	1.63	0.64
13:F:188:GLU:OE2	13:F:191:LYS:HD2	1.98	0.64
14:G:193:VAL:HG12	14:G:239:ALA:HB2	1.79	0.64
16:I:136:VAL:HG21	16:I:159:VAL:H	1.62	0.64
16:I:149:LEU:HD22	16:I:154:MET:O	1.98	0.64
17:J:31:GLU:HG3	18:K:55:GLU:CD	2.23	0.64
17:J:190:PRO:CB	17:J:319:PRO:CD	2.67	0.64
20:M:22:ILE:O	20:M:26:SER:N	2.26	0.64
21:N:312:GLY:O	21:N:316:LYS:N	2.20	0.64
21:N:518:ALA:HB1	21:N:550:GLY:HA3	1.80	0.64
22:O:177:GLN:HA	22:O:180:LYS:HB3	1.80	0.64
22:O:387:ARG:HD2	27:T:266:TYR:CE2	2.32	0.64
23:P:404:LYS:HE3	23:P:406:LYS:CB	2.26	0.64
25:R:382:ASP:CA	26:S:399:TYR:HB2	2.23	0.64
26:S:232:MET:N	26:S:259:TYR:OH	2.31	0.64
26:S:478:SER:HA	26:S:481:TYR:CE2	2.32	0.64
27:T:136:LEU:HD12	27:T:142:LEU:HB3	1.79	0.64
28:U:57:GLU:N	28:U:67:PHE:O	2.24	0.64
28:U:69:ASP:OD2	28:U:71:ASN:HB2	1.98	0.64
28:U:230:GLN:HA	28:U:233:PHE:CE2	2.32	0.64
33:Z:919:GLU:HG3	33:Z:921:GLU:HG2	1.79	0.64
8:a:181:ASN:HD22	8:a:213:ALA:HB2	1.62	0.64
12:e:74:ILE:HG12	12:e:109:VAL:HG22	1.79	0.64
13:f:147:PHE:HD1	13:f:153:VAL:HG22	1.63	0.64
6:k:148:TYR:C	6:k:149:ARG:HH11	2.03	0.64
7:l:154:ALA:HA	7:l:157:ILE:HD12	1.79	0.64
2:2:39:VAL:HG21	3:h:137:SER:OG	1.98	0.64
5:5:112:ILE:HG12	5:5:119:PRO:HA	1.80	0.64
1:8:48:ASN:OD1	1:8:55:ASN:ND2	2.31	0.64
10:C:38:ILE:HG12	10:C:162:ALA:HB1	1.78	0.64
11:D:66:LYS:HA	11:D:72:VAL:HG12	1.80	0.64
15:H:274:VAL:N	15:H:307:PHE:O	2.31	0.64
17:J:391:ASN:O	17:J:395:GLU:N	2.30	0.64
18:K:56:LYS:HZ3	21:N:196:THR:HG22	1.63	0.64
21:N:781:ALA:H	21:N:878:GLN:NE2	1.95	0.64
22:O:2:PHE:HA	22:O:5:HIS:CD2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:104:LEU:HD13	23:P:115:ARG:HA	1.80	0.64
25:R:273:SER:O	25:R:277:LEU:N	2.24	0.64
26:S:182:LYS:HG2	26:S:186:TYR:HB2	1.80	0.64
26:S:425:ARG:CZ	27:T:154:GLU:HB2	2.27	0.64
27:T:104:LYS:NZ	27:T:169:GLN:CD	2.55	0.64
30:W:44:ASN:N	30:W:47:ASN:OD1	2.29	0.64
32:Y:85:LYS:O	32:Y:89:GLN:N	2.27	0.64
12:e:42:THR:OG1	12:e:45:GLY:N	2.30	0.64
4:4:68:PRO:O	4:4:71:TRP:NE1	2.26	0.64
4:4:235:PRO:O	4:4:238:THR:OG1	2.11	0.64
2:9:109:TYR:OH	14:G:71:ASP:N	2.29	0.64
8:A:105:ARG:NH1	8:A:109:GLY:HA2	2.12	0.64
9:B:6:SER:HG	11:D:4:TYR:HD1	1.46	0.64
11:D:96:HIS:NE2	11:D:100:LEU:HD22	2.13	0.64
12:E:17:PRO:HA	13:F:24:TYR:CE1	2.31	0.64
13:F:43:HIS:HE1	13:F:184:GLY:HA2	1.62	0.64
13:F:148:GLN:N	13:F:152:ASN:O	2.30	0.64
15:H:96:PRO:HD2	16:I:119:ILE:HG21	1.80	0.64
19:L:296:SER:OG	19:L:298:ASP:OD1	2.16	0.64
21:N:239:LEU:HD23	21:N:242:PHE:HD2	1.63	0.64
21:N:327:LEU:HD21	29:V:164:LEU:HD11	1.78	0.64
21:N:466:LEU:HA	21:N:469:VAL:HB	1.80	0.64
22:O:213:LEU:O	22:O:217:LEU:N	2.22	0.64
22:O:308:LEU:HA	22:O:313:ILE:HG21	1.80	0.64
23:P:116:ILE:HA	23:P:119:ILE:HG12	1.80	0.64
23:P:147:LYS:HA	23:P:150:GLU:HB2	1.80	0.64
24:Q:80:HIS:HB3	24:Q:84:TYR:CE2	2.32	0.64
24:Q:355:GLU:CB	24:Q:399:VAL:HA	2.27	0.64
27:T:120:THR:O	27:T:124:SER:N	2.15	0.64
27:T:253:GLU:N	27:T:255:GLN:OE1	2.30	0.64
28:U:111:LYS:HG2	28:U:118:PRO:HD2	1.79	0.64
28:U:127:GLN:OE1	29:V:211:LYS:HE2	1.97	0.64
29:V:237:ASN:HB2	29:V:238:LEU:CB	2.25	0.64
30:W:113:PHE:HE1	30:W:181:LEU:HD21	1.61	0.64
8:a:105:ARG:NH1	8:a:109:GLY:HA2	2.12	0.64
11:d:187:THR:HB	11:d:190:GLU:HG2	1.79	0.64
13:f:43:HIS:HE1	13:f:184:GLY:HA2	1.62	0.64
14:g:16:SER:O	14:g:19:GLY:N	2.25	0.64
4:i:37:PHE:N	4:i:40:GLY:O	2.30	0.64
6:k:52:ASP:OD2	6:k:98:TYR:HA	1.97	0.64
7:l:123:GLY:N	7:l:171:SER:O	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:151:VAL:HG13	7:l:176:ILE:HG22	1.80	0.64
1:1:205:ASP:O	1:1:208:THR:OG1	2.16	0.64
3:3:56:VAL:HG11	3:3:101:PHE:HZ	1.63	0.64
4:4:128:ILE:HG13	4:4:156:LEU:HD12	1.80	0.64
1:8:89:ASN:ND2	13:F:93:ASN:HD21	1.96	0.64
2:9:49:TYR:HE1	2:9:51:ASN:HB2	1.63	0.64
2:9:221:ASP:HB3	2:9:224:SER:HB3	1.80	0.64
8:A:88:PRO:HB3	14:G:155:GLY:CA	2.27	0.64
9:B:94:HIS:O	9:B:99:ARG:N	2.25	0.64
12:E:202:LYS:O	12:E:206:GLN:N	2.26	0.64
13:F:166:GLN:O	13:F:170:THR:N	2.22	0.64
14:G:170:GLN:OE1	14:G:170:GLN:N	2.25	0.64
15:H:318:ARG:NH1	15:H:333:MET:SD	2.56	0.64
17:J:43:ARG:HH12	26:S:477:VAL:HA	1.61	0.64
18:K:137:VAL:HB	18:K:146:LEU:HD13	1.80	0.64
19:L:195:GLU:HG3	19:L:199:LEU:HD12	1.79	0.64
21:N:103:SER:HA	21:N:106:ILE:HD12	1.77	0.64
21:N:109:TYR:HB2	21:N:133:LEU:HD11	1.79	0.64
21:N:421:ASP:HA	21:N:424:LYS:HB3	1.79	0.64
21:N:718:GLU:HA	21:N:725:LEU:HA	1.79	0.64
22:O:199:LEU:HG	22:O:203:THR:HB	1.79	0.64
22:O:247:ASN:O	22:O:251:LEU:N	2.21	0.64
23:P:435:LYS:NZ	28:U:156:HIS:HB3	2.12	0.64
24:Q:8:LEU:HB2	24:Q:50:ARG:NH1	2.13	0.64
24:Q:179:LEU:HD13	24:Q:218:LEU:HD23	1.80	0.64
25:R:247:GLU:HG3	25:R:279:LEU:HD21	1.80	0.64
30:W:46:GLU:O	30:W:106:GLN:NE2	2.31	0.64
30:W:96:LEU:HA	30:W:99:LYS:HD2	1.80	0.64
31:X:75:TRP:HH2	31:X:87:PHE:HA	1.63	0.64
33:Z:348:LEU:HD23	33:Z:354:PRO:HD3	1.80	0.64
33:Z:453:LEU:HB2	33:Z:488:ALA:HB1	1.78	0.64
10:c:20:TYR:HB3	10:c:24:TYR:CZ	2.32	0.64
11:d:66:LYS:HA	11:d:72:VAL:HG12	1.80	0.64
6:k:158:LEU:HA	6:k:161:LEU:HD12	1.79	0.64
1:1:26:ASP:OD1	1:1:27:ASN:N	2.29	0.64
2:2:86:ILE:HG12	2:2:147:ILE:HG12	1.80	0.64
3:3:24:ALA:O	3:3:144:ALA:N	2.24	0.64
6:6:141:PHE:O	6:6:145:ASP:N	2.21	0.64
1:8:221:LEU:O	1:8:236:TYR:N	2.23	0.64
8:A:22:GLU:HA	9:B:26:THR:HG21	1.80	0.64
11:D:123:SER:C	12:E:135:SER:HB3	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:385:ARG:HB3	15:H:389:PHE:CZ	2.33	0.64
15:H:404:TRP:HH2	15:H:443:PHE:CD1	2.16	0.64
17:J:86:VAL:O	17:J:94:TYR:N	2.22	0.64
18:K:141:ARG:HD3	19:L:153:LEU:HD11	1.79	0.64
18:K:239:GLY:HA3	18:K:276:SER:HB2	1.80	0.64
18:K:389:GLU:HG2	18:K:393:ARG:HE	1.63	0.64
20:M:312:LEU:HB3	20:M:342:ARG:HA	1.79	0.64
21:N:537:THR:O	21:N:541:ALA:N	2.25	0.64
21:N:707:ASN:HA	21:N:711:ARG:HB3	1.80	0.64
27:T:255:GLN:O	27:T:259:ILE:N	2.22	0.64
10:c:147:GLN:HB3	10:c:149:TYR:HE1	1.63	0.64
10:c:175:LEU:HD12	10:c:200:THR:HG23	1.80	0.64
12:e:234:GLU:OE1	12:e:234:GLU:N	2.24	0.64
3:h:56:VAL:HG11	3:h:101:PHE:HZ	1.63	0.64
4:i:78:ALA:HB3	5:j:129:CYS:SG	2.38	0.64
6:k:172:MET:HE2	6:k:174:MET:HB2	1.79	0.64
7:l:148:ARG:NH2	7:l:179:TYR:O	2.31	0.64
1:1:105:ILE:HG13	1:1:142:TYR:CE2	2.33	0.64
1:1:114:HIS:CE1	12:e:102:TYR:HA	2.33	0.64
4:4:129:VAL:N	4:4:140:PHE:O	2.24	0.64
6:6:52:ASP:OD2	6:6:98:TYR:HA	1.97	0.64
7:7:148:ARG:NH2	7:7:179:TYR:O	2.31	0.64
1:8:42:LEU:HD22	1:8:62:VAL:HG13	1.80	0.64
1:8:95:HIS:O	1:8:100:ASP:N	2.23	0.64
8:A:239:GLU:O	8:A:243:GLU:N	2.28	0.64
10:C:175:LEU:HD12	10:C:200:THR:HG23	1.80	0.64
15:H:399:GLU:HA	15:H:437:VAL:HB	1.80	0.64
18:K:51:LEU:HD22	18:K:55:GLU:OE1	1.98	0.64
18:K:281:ARG:HD3	18:K:293:GLN:CD	2.23	0.64
18:K:298:GLU:O	18:K:302:GLN:N	2.31	0.64
19:L:263:ILE:HD11	19:L:304:THR:HG23	1.78	0.64
20:M:37:LEU:HD22	20:M:134:LEU:HD21	1.80	0.64
22:O:107:GLN:O	22:O:112:LYS:N	2.31	0.64
22:O:314:SER:HB3	22:O:328:VAL:HG21	1.78	0.64
23:P:80:THR:O	23:P:83:SER:OG	2.16	0.64
23:P:291:LYS:C	23:P:293:LEU:HB3	2.22	0.64
23:P:409:SER:HA	28:U:268:LYS:HZ2	1.59	0.64
24:Q:54:GLN:O	24:Q:57:SER:OG	2.14	0.64
24:Q:178:HIS:O	24:Q:182:SER:N	2.26	0.64
26:S:291:GLU:HA	26:S:294:ILE:HB	1.80	0.64
28:U:141:GLU:CG	28:U:151:GLU:O	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:95:LEU:HB3	29:V:100:ARG:HB3	1.79	0.64
31:X:85:ARG:HD3	31:X:117:LYS:O	1.98	0.64
31:X:113:GLU:HG3	31:X:122:TYR:HB2	1.80	0.64
10:c:152:ASN:HD21	10:c:156:ASN:HB3	1.61	0.64
4:i:189:GLN:O	4:i:193:TRP:N	2.22	0.64
6:k:7:ILE:O	6:k:14:ILE:N	2.20	0.64
1:1:62:VAL:HA	1:1:72:SER:HB2	1.79	0.63
4:4:68:PRO:HA	9:B:224:TYR:HD2	1.62	0.63
7:7:276:LYS:HZ1	7:7:285:VAL:C	2.06	0.63
1:8:105:ILE:HG13	1:8:142:TYR:CE2	2.33	0.63
10:C:79:GLY:HA3	10:C:133:VAL:HA	1.78	0.63
10:C:196:THR:HA	10:C:199:LYS:HD3	1.80	0.63
11:D:187:THR:HB	11:D:190:GLU:HG2	1.79	0.63
13:F:68:GLU:O	13:F:222:PHE:N	2.19	0.63
14:G:37:SER:N	14:G:165:THR:O	2.29	0.63
14:G:123:HIS:NE2	14:G:132:PHE:CZ	2.66	0.63
15:H:145:TYR:O	15:H:168:ILE:HG22	1.98	0.63
15:H:336:LEU:O	15:H:340:LEU:N	2.22	0.63
16:I:161:GLN:HA	16:I:162:ASP:CG	2.22	0.63
17:J:116:ARG:CB	17:J:119:SER:HB2	2.28	0.63
18:K:128:ARG:CZ	18:K:129:GLU:OE2	2.46	0.63
18:K:257:VAL:O	18:K:261:ALA:N	2.27	0.63
19:L:95:ILE:HG23	20:M:36:LEU:HD12	1.79	0.63
19:L:215:PRO:HD2	19:L:322:LYS:HZ1	1.63	0.63
19:L:241:ALA:HB3	19:L:277:ILE:HG12	1.80	0.63
21:N:69:TYR:O	21:N:74:GLU:N	2.31	0.63
21:N:205:SER:C	21:N:209:LYS:NZ	2.56	0.63
21:N:227:LYS:HA	21:N:230:VAL:HB	1.80	0.63
21:N:632:LYS:O	21:N:667:GLN:NE2	2.27	0.63
22:O:100:ASP:HA	22:O:103:LYS:HE2	1.78	0.63
22:O:200:GLU:HB3	22:O:201:PRO:HD3	1.78	0.63
23:P:205:LYS:O	23:P:209:LYS:N	2.26	0.63
23:P:238:ALA:HA	23:P:241:LEU:HB2	1.79	0.63
24:Q:202:ARG:NH2	24:Q:222:SER:HG	1.96	0.63
24:Q:330:LEU:O	24:Q:334:HIS:N	2.28	0.63
24:Q:340:ASP:HB3	24:Q:376:LYS:HZ2	1.63	0.63
25:R:58:GLU:O	25:R:144:ILE:HA	1.97	0.63
26:S:357:LEU:CD1	26:S:384:ARG:HH11	2.10	0.63
27:T:20:TYR:HB3	27:T:68:ALA:HB1	1.78	0.63
27:T:86:LYS:HA	27:T:89:TYR:HB3	1.81	0.63
33:Z:352:LYS:HE3	33:Z:462:VAL:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:419:VAL:HA	33:Z:422:ILE:HD12	1.79	0.63
33:Z:610:GLY:HA2	33:Z:749:GLY:HA3	1.80	0.63
11:d:24:LEU:HB3	11:d:28:LYS:HZ2	1.63	0.63
14:g:26:TYR:HA	14:g:29:LYS:HG2	1.80	0.63
2:2:204:GLN:HA	2:2:207:GLU:HB3	1.80	0.63
4:4:138:HIS:HB3	4:4:140:PHE:CE2	2.33	0.63
7:7:155:SER:OG	7:7:196:ARG:NH2	2.29	0.63
8:A:147:ASP:OD2	8:A:149:GLU:HB2	1.98	0.63
12:E:42:THR:OG1	12:E:45:GLY:N	2.30	0.63
13:F:36:VAL:N	13:F:47:VAL:O	2.23	0.63
13:F:40:SER:N	13:F:43:HIS:O	2.30	0.63
13:F:157:TYR:OH	14:G:61:PRO:HD2	1.98	0.63
14:G:77:VAL:O	14:G:137:ILE:N	2.31	0.63
15:H:238:LEU:HD23	20:M:408:SER:HA	1.80	0.63
16:I:109:LEU:N	16:I:145:CYS:O	2.28	0.63
16:I:243:THR:O	16:I:278:ILE:N	2.30	0.63
18:K:158:ILE:HG23	18:K:242:PHE:HE1	1.64	0.63
21:N:293:LEU:HD12	21:N:296:CYS:HB2	1.80	0.63
21:N:344:THR:HG23	21:N:375:HIS:ND1	2.12	0.63
21:N:874:ILE:HG22	21:N:875:LEU:H	1.62	0.63
23:P:299:LEU:HD12	23:P:302:LEU:HB2	1.81	0.63
25:R:164:THR:O	25:R:168:ILE:N	2.29	0.63
25:R:229:LYS:NZ	25:R:230:LEU:HD12	2.13	0.63
26:S:438:HIS:NE2	27:T:197:TYR:OH	2.31	0.63
27:T:104:LYS:HZ1	27:T:169:GLN:NE2	1.96	0.63
28:U:299:LYS:O	28:U:303:GLU:N	2.31	0.63
33:Z:593:HIS:N	33:Z:596:THR:OG1	2.32	0.63
33:Z:766:HIS:O	33:Z:773:ARG:NH2	2.31	0.63
14:g:77:VAL:O	14:g:137:ILE:N	2.31	0.63
2:2:260:GLY:N	3:3:51:ASP:OD2	2.27	0.63
12:E:176:SER:O	12:E:180:GLN:N	2.31	0.63
13:F:135:ILE:HD12	13:F:216:VAL:H	1.63	0.63
14:G:138:PHE:CZ	14:G:149:TYR:HB2	2.32	0.63
16:I:243:THR:HB	16:I:277:SER:HA	1.80	0.63
18:K:394:ALA:HB2	18:K:406:ASP:OD2	1.98	0.63
21:N:78:ALA:O	21:N:82:ALA:N	2.26	0.63
22:O:10:ILE:O	22:O:14:LEU:N	2.31	0.63
24:Q:143:THR:HA	24:Q:146:TYR:HB3	1.80	0.63
24:Q:379:GLN:HE21	24:Q:383:ASP:CG	2.07	0.63
24:Q:388:GLY:CA	24:Q:400:TYR:HB3	2.28	0.63
25:R:113:LEU:O	25:R:117:ILE:N	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:152:LYS:CB	25:R:156:LYS:HZ1	2.07	0.63
26:S:259:TYR:HB3	26:S:264:VAL:HG21	1.81	0.63
26:S:285:ASP:OD2	26:S:288:THR:OG1	2.11	0.63
26:S:321:GLN:O	26:S:325:GLY:N	2.30	0.63
26:S:399:TYR:HB3	26:S:402:ILE:HD13	1.81	0.63
29:V:48:GLU:HG2	29:V:111:HIS:CE1	2.33	0.63
30:W:167:GLU:N	30:W:197:SER:HB2	2.13	0.63
33:Z:312:TYR:CE1	33:Z:349:THR:HA	2.33	0.63
33:Z:322:GLU:C	33:Z:499:GLY:HA2	2.23	0.63
9:b:241:GLN:NE2	9:b:245:ASP:OD1	2.23	0.63
14:g:18:ASP:OD2	14:g:20:ARG:HD3	1.98	0.63
3:h:176:HIS:CD2	3:h:215:LEU:HB3	2.33	0.63
5:j:11:ILE:HD13	5:j:142:ALA:HB3	1.79	0.63
7:l:276:LYS:NZ	7:l:285:VAL:C	2.57	0.63
1:1:42:LEU:HD22	1:1:62:VAL:HG13	1.80	0.63
1:1:214:HIS:CE1	4:4:53:PRO:HB2	2.33	0.63
2:9:113:LEU:HB3	2:9:116:ALA:HB3	1.79	0.63
9:B:95:THR:OG1	9:B:96:SER:N	2.31	0.63
14:G:84:ASP:OD2	14:G:133:GLY:N	2.27	0.63
15:H:249:TYR:CZ	15:H:376:GLU:HB2	2.33	0.63
17:J:26:LYS:HZ3	21:N:107:GLU:H	1.45	0.63
18:K:138:ALA:O	18:K:147:VAL:N	2.23	0.63
21:N:311:ILE:HA	21:N:314:LEU:HB3	1.79	0.63
21:N:614:ASN:ND2	21:N:616:HIS:HB2	2.11	0.63
21:N:638:ILE:HG23	21:N:660:LEU:HD22	1.80	0.63
23:P:378:THR:O	23:P:382:ASP:N	2.24	0.63
24:Q:30:LEU:HD22	24:Q:50:ARG:NH2	2.13	0.63
24:Q:55:GLU:O	24:Q:59:LEU:N	2.24	0.63
26:S:156:VAL:HG22	26:S:188:TYR:CE1	2.34	0.63
26:S:332:PHE:O	26:S:335:GLN:N	2.20	0.63
29:V:107:TRP:HB2	29:V:138:ALA:HA	1.81	0.63
31:X:85:ARG:NH2	31:X:101:LEU:HA	2.13	0.63
33:Z:524:ALA:O	33:Z:527:SER:OG	2.13	0.63
8:a:135:ARG:HH11	14:g:15:PHE:HZ	1.46	0.63
10:c:147:GLN:HB3	10:c:149:TYR:CE1	2.32	0.63
11:d:163:THR:HG21	11:d:171:VAL:HG13	1.81	0.63
11:d:193:LYS:HZ2	11:d:235:GLN:CG	2.08	0.63
12:e:95:ALA:O	12:e:99:HIS:N	2.21	0.63
14:g:22:PHE:O	14:g:26:TYR:N	2.24	0.63
14:g:47:VAL:HA	14:g:218:TRP:HA	1.81	0.63
4:4:188:ILE:O	4:4:192:ILE:N	2.22	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:65:GLN:HB2	11:D:94:GLN:NE2	2.13	0.63
1:8:179:TYR:CG	1:8:185:GLY:HA2	2.33	0.63
8:A:46:ARG:HA	8:A:51:THR:HA	1.81	0.63
8:A:165:GLY:HA3	9:B:60:THR:HG21	1.81	0.63
10:C:144:TYR:HB2	10:C:147:GLN:HE21	1.63	0.63
12:E:240:ILE:HA	12:E:243:LEU:CG	2.29	0.63
13:F:110:HIS:ND1	14:G:86:ARG:NH1	2.46	0.63
14:G:123:HIS:CG	14:G:132:PHE:CE1	2.87	0.63
16:I:220:ILE:HB	16:I:347:LYS:HA	1.79	0.63
17:J:368:TYR:O	17:J:372:GLU:N	2.32	0.63
21:N:194:ILE:O	21:N:203:ARG:NH1	2.32	0.63
21:N:299:TYR:O	21:N:303:LEU:N	2.21	0.63
22:O:11:LEU:CG	22:O:14:LEU:HD12	2.20	0.63
22:O:185:PHE:CD2	22:O:223:LEU:HB3	2.33	0.63
22:O:207:LEU:HA	22:O:210:ARG:HB3	1.80	0.63
23:P:292:LYS:CG	23:P:295:SER:H	2.11	0.63
24:Q:192:ALA:O	24:Q:196:ALA:N	2.23	0.63
25:R:289:ILE:O	25:R:293:THR:OG1	2.10	0.63
25:R:325:HIS:HB2	25:R:328:PHE:CD2	2.34	0.63
26:S:3:SER:O	26:S:7:MET:N	2.24	0.63
28:U:20:ASP:OD2	29:V:100:ARG:CZ	2.46	0.63
29:V:110:SER:HB2	29:V:143:PRO:HG3	1.80	0.63
30:W:32:SER:HA	30:W:182:TYR:HB3	1.80	0.63
33:Z:497:PHE:HB2	33:Z:533:VAL:HG22	1.79	0.63
8:a:112:MET:HE3	8:a:117:LEU:HB2	1.81	0.63
13:f:168:ALA:O	13:f:172:LEU:N	2.24	0.63
13:f:188:GLU:OE2	13:f:191:LYS:HD2	1.98	0.63
1:1:48:ASN:OD1	1:1:55:ASN:ND2	2.31	0.63
1:8:106:ASN:OD1	1:8:107:SER:N	2.30	0.63
2:9:49:TYR:N	2:9:52:GLY:O	2.30	0.63
2:9:127:GLU:HG3	13:F:98:VAL:O	1.98	0.63
8:A:85:GLY:HA3	8:A:139:VAL:HG12	1.79	0.63
9:B:239:THR:OG1	9:B:242:GLU:N	2.17	0.63
13:F:50:LYS:HZ1	13:F:226:ASP:HB3	1.64	0.63
14:G:36:THR:HA	14:G:166:GLY:HA3	1.81	0.63
15:H:173:ARG:HH21	16:I:127:ASP:H	1.46	0.63
15:H:200:VAL:HG22	15:H:272:ILE:HG23	1.81	0.63
17:J:70:SER:HB2	18:K:119:VAL:HB	1.79	0.63
17:J:197:LEU:O	17:J:201:ALA:N	2.28	0.63
18:K:67:TYR:CZ	18:K:71:GLU:HB2	2.33	0.63
20:M:149:ASN:N	20:M:154:LEU:O	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:157:ALA:O	21:N:161:TYR:N	2.31	0.63
21:N:287:LEU:HA	21:N:290:LEU:HD12	1.80	0.63
21:N:308:ASN:HD22	21:N:712:ASN:ND2	1.92	0.63
22:O:15:ARG:NH1	30:W:145:GLY:O	2.32	0.63
22:O:304:ASN:HB2	28:U:261:LEU:HD23	1.78	0.63
23:P:55:SER:O	23:P:88:GLN:NE2	2.30	0.63
23:P:128:ASN:HA	23:P:136:ARG:NH1	2.14	0.63
23:P:133:GLU:CA	23:P:136:ARG:HE	2.10	0.63
23:P:361:THR:HA	23:P:399:ILE:HA	1.81	0.63
24:Q:185:TYR:HB3	24:Q:190:ASN:O	1.98	0.63
26:S:160:ARG:HH22	26:S:206:GLN:CB	2.12	0.63
26:S:182:LYS:O	26:S:185:PHE:N	2.32	0.63
26:S:227:ASN:ND2	26:S:260:PRO:O	2.23	0.63
30:W:19:GLY:HA2	30:W:25:ARG:N	2.07	0.63
33:Z:381:LEU:HD11	33:Z:414:GLY:HA3	1.79	0.63
33:Z:504:GLU:O	33:Z:508:LEU:N	2.29	0.63
33:Z:804:ASP:HB3	33:Z:807:VAL:HG23	1.80	0.63
8:a:147:ASP:OD2	8:a:149:GLU:HB2	1.98	0.63
13:f:40:SER:N	13:f:43:HIS:O	2.30	0.63
14:g:90:ASN:O	14:g:94:GLU:HG3	1.98	0.63
5:j:98:ARG:HB3	5:j:102:PRO:HA	1.79	0.63
5:j:103:TYR:HA	6:k:93:ARG:NH2	2.12	0.63
1:1:221:LEU:O	1:1:236:TYR:N	2.22	0.63
3:3:180:GLN:HE22	3:h:158:ASP:CG	2.06	0.63
5:5:11:ILE:HG21	5:5:142:ALA:H	1.63	0.63
8:A:125:SER:HA	8:A:128:TYR:CD2	2.34	0.63
14:G:18:ASP:OD2	14:G:20:ARG:HD3	1.98	0.63
14:G:26:TYR:HA	14:G:29:LYS:HG2	1.80	0.63
14:G:224:THR:HB	14:G:227:LEU:HB2	1.81	0.63
16:I:335:ASP:HB2	16:I:338:LEU:HB2	1.80	0.63
16:I:359:LYS:HA	16:I:362:LEU:HB2	1.80	0.63
16:I:365:HIS:CG	16:I:393:GLN:HG2	2.33	0.63
16:I:403:ALA:HB3	16:I:411:VAL:HG22	1.80	0.63
17:J:342:ASN:HB3	17:J:345:LYS:HD3	1.81	0.63
19:L:379:ALA:O	19:L:419:VAL:HG11	1.99	0.63
21:N:95:SER:OG	21:N:98:VAL:N	2.19	0.63
21:N:110:VAL:O	21:N:114:SER:N	2.23	0.63
21:N:300:ASN:O	21:N:304:LEU:N	2.31	0.63
21:N:361:ASN:HA	21:N:364:LYS:HD2	1.81	0.63
22:O:28:GLN:O	22:O:32:PHE:N	2.20	0.63
22:O:152:ASP:HA	22:O:155:LYS:HB3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:352:TRP:CG	22:O:353:VAL:N	2.59	0.63
23:P:422:LEU:CB	23:P:426:ILE:CD1	2.69	0.63
25:R:379:CYS:SG	25:R:381:ILE:HB	2.37	0.63
26:S:225:HIS:NE2	26:S:228:GLU:OE2	2.31	0.63
27:T:108:LEU:O	27:T:112:ASN:N	2.30	0.63
28:U:225:ILE:O	28:U:229:LEU:HG	1.99	0.63
30:W:20:ASP:OD1	30:W:21:PHE:N	2.31	0.63
33:Z:103:TYR:OH	33:Z:136:ARG:O	2.15	0.63
33:Z:454:GLY:HA2	33:Z:457:ILE:HD12	1.81	0.63
33:Z:880:SER:OG	33:Z:903:MET:O	2.16	0.63
8:a:85:GLY:HA3	8:a:139:VAL:HG12	1.79	0.63
11:d:111:ARG:HH22	7:l:145:GLU:CD	2.06	0.63
14:g:123:HIS:O	14:g:129:VAL:O	2.17	0.63
3:h:28:LYS:HA	3:h:164:ASN:HD22	1.64	0.63
6:k:7:ILE:HD12	6:k:129:PRO:O	1.99	0.63
7:l:96:THR:HG22	7:l:101:VAL:HG22	1.81	0.63
1:1:34:ILE:HB	1:1:41:VAL:HG23	1.80	0.63
3:3:176:HIS:CD2	3:3:215:LEU:HB3	2.33	0.63
4:4:36:LYS:HZ1	4:4:138:HIS:HA	1.64	0.63
5:5:111:GLY:O	5:5:120:PHE:N	2.25	0.63
7:7:276:LYS:NZ	7:7:285:VAL:C	2.57	0.63
2:9:132:VAL:HA	2:9:135:GLN:OE1	1.99	0.63
13:F:110:HIS:HB3	14:G:86:ARG:HH22	1.62	0.63
14:G:217:SER:HA	14:G:231:VAL:H	1.63	0.63
16:I:279:VAL:O	16:I:325:ILE:N	2.32	0.63
18:K:207:ARG:HH12	18:K:306:PHE:H	1.46	0.63
18:K:219:LYS:NZ	18:K:318:THR:C	2.56	0.63
20:M:226:THR:HG22	20:M:352:PRO:HD3	1.80	0.63
21:N:69:TYR:HE2	21:N:81:TYR:CD2	2.16	0.63
21:N:142:GLU:C	21:N:146:LYS:HZ3	2.07	0.63
21:N:299:TYR:HD1	21:N:755:PRO:HB3	1.64	0.63
21:N:569:LYS:HA	21:N:572:LEU:HD12	1.81	0.63
21:N:607:GLN:O	21:N:610:SER:OG	2.16	0.63
22:O:138:LEU:HD23	22:O:138:LEU:C	2.24	0.63
23:P:325:ASP:OD1	23:P:327:LEU:N	2.32	0.63
23:P:393:VAL:HB	24:Q:354:PHE:N	2.13	0.63
24:Q:135:HIS:CG	24:Q:164:GLU:HG2	2.34	0.63
24:Q:138:SER:HB2	24:Q:161:LEU:HD21	1.80	0.63
25:R:266:LEU:O	25:R:271:ILE:N	2.29	0.63
25:R:340:GLN:OE1	25:R:340:GLN:N	2.21	0.63
25:R:372:ILE:CB	26:S:395:ILE:H	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:373:PRO:HA	25:R:375:LYS:HZ1	1.63	0.63
26:S:247:VAL:O	26:S:250:ALA:N	2.16	0.63
26:S:280:ASN:ND2	26:S:288:THR:HB	2.13	0.63
26:S:475:TYR:CE1	26:S:476:LEU:HB2	2.34	0.63
28:U:6:GLU:HA	28:U:44:SER:HA	1.81	0.63
28:U:138:VAL:O	28:U:139:ALA:O	2.16	0.63
29:V:26:THR:N	29:V:61:TYR:O	2.28	0.63
29:V:289:GLU:O	29:V:291:ASN:N	2.32	0.63
30:W:68:GLU:OE2	30:W:69:PHE:N	2.32	0.63
30:W:110:ILE:HB	30:W:139:VAL:HG22	1.80	0.63
33:Z:369:PHE:O	33:Z:370:SER:OG	2.14	0.63
33:Z:372:ALA:HB3	33:Z:849:ARG:NH1	2.13	0.63
33:Z:926:ASN:HB3	33:Z:956:LEU:HB3	1.78	0.63
8:a:125:SER:HA	8:a:128:TYR:CD2	2.34	0.63
14:g:36:THR:HA	14:g:166:GLY:HA3	1.81	0.63
14:g:123:HIS:NE2	14:g:132:PHE:CZ	2.67	0.63
3:3:26:THR:HA	3:3:31:VAL:HA	1.81	0.63
4:4:212:ASP:HB3	9:B:224:TYR:HA	1.80	0.63
6:6:77:PRO:HA	6:6:80:VAL:HB	1.81	0.63
7:7:178:GLY:O	7:7:186:THR:N	2.27	0.63
1:8:34:ILE:HB	1:8:41:VAL:HG23	1.80	0.63
1:8:205:ASP:O	1:8:208:THR:OG1	2.16	0.63
8:A:209:HIS:HA	8:A:212:ASP:HB2	1.81	0.63
9:B:123:GLN:HB2	10:C:129:ARG:NH2	2.13	0.63
9:B:192:ALA:O	9:B:196:LEU:N	2.21	0.63
12:E:36:THR:HG1	12:E:175:GLY:H	1.44	0.63
13:F:157:TYR:CE2	14:G:60:VAL:HA	2.34	0.63
15:H:390:ARG:HA	15:H:404:TRP:CD1	2.33	0.63
15:H:393:SER:HB2	15:H:398:VAL:HG21	1.79	0.63
16:I:299:GLU:HG2	16:I:302:ILE:H	1.64	0.63
16:I:365:HIS:CD2	16:I:393:GLN:HG2	2.34	0.63
17:J:61:GLU:HG2	17:J:65:LEU:HG	1.80	0.63
17:J:71:TYR:HA	18:K:118:TYR:HD1	1.63	0.63
17:J:257:ARG:NH1	17:J:296:ARG:HH12	1.95	0.63
18:K:349:ARG:HH22	18:K:378:LEU:HB2	1.64	0.63
20:M:336:ALA:HB2	20:M:342:ARG:NH1	2.14	0.63
21:N:675:VAL:HA	21:N:678:ILE:HD12	1.80	0.63
22:O:185:PHE:O	22:O:189:TYR:HB3	1.99	0.63
22:O:331:ALA:O	22:O:337:LEU:N	2.32	0.63
23:P:123:ARG:HB2	23:P:129:LYS:HG2	1.80	0.63
23:P:228:SER:HA	23:P:231:LYS:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:429:ILE:HG23	28:U:229:LEU:HB3	1.80	0.63
25:R:72:VAL:HA	25:R:76:GLN:HE21	1.62	0.63
25:R:131:ALA:HA	25:R:134:TRP:CD1	2.34	0.63
25:R:225:LYS:NZ	25:R:260:THR:C	2.57	0.63
25:R:265:ASP:O	25:R:269:LYS:N	2.31	0.63
25:R:362:ALA:O	25:R:366:ASN:N	2.30	0.63
26:S:239:ARG:HH12	26:S:243:ASN:HD21	1.45	0.63
27:T:140:SER:HA	27:T:143:SER:HB2	1.80	0.63
28:U:140:ILE:CA	28:U:153:THR:C	2.71	0.63
30:W:2:VAL:HG22	30:W:196:SER:HB3	1.79	0.63
9:b:99:ARG:NE	4:i:90:SER:OG	2.24	0.63
10:c:9:ARG:O	10:c:12:ILE:HG12	1.99	0.63
13:f:217:GLY:N	13:f:220:THR:O	2.24	0.63
14:g:218:TRP:HZ3	14:g:220:SER:HB3	1.64	0.63
6:k:8:ARG:HB3	6:k:13:VAL:HG22	1.81	0.63
2:2:121:GLU:OE2	2:2:154:SER:N	2.32	0.62
2:2:132:VAL:HA	2:2:135:GLN:OE1	1.99	0.62
2:2:226:ARG:NH2	2:2:248:GLU:OE1	2.30	0.62
5:5:189:ILE:HG13	5:5:198:ARG:NH1	2.14	0.62
1:8:240:ARG:NH2	2:9:193:ASP:O	2.32	0.62
11:D:202:VAL:O	11:D:204:GLN:HG2	1.99	0.62
12:E:240:ILE:HA	12:E:243:LEU:CD2	2.28	0.62
15:H:52:THR:HG23	15:H:55:ASP:OD2	1.99	0.62
15:H:248:LEU:HA	15:H:375:VAL:O	1.98	0.62
15:H:292:ARG:HG2	15:H:339:GLN:HE22	1.63	0.62
18:K:188:VAL:HA	18:K:313:LYS:HZ2	1.64	0.62
18:K:267:SER:H	18:K:312:VAL:HG22	1.64	0.62
21:N:717:LEU:HD12	21:N:726:ASP:H	1.64	0.62
23:P:19:LYS:O	23:P:23:LEU:N	2.21	0.62
23:P:168:TYR:HB2	23:P:176:LYS:HD2	1.79	0.62
23:P:253:ASP:OD2	23:P:255:ALA:HB3	1.99	0.62
23:P:287:ASP:OD1	23:P:294:GLU:HA	1.99	0.62
23:P:336:HIS:HA	23:P:340:ASP:OD2	1.98	0.62
23:P:411:LEU:HA	23:P:415:TRP:H	1.63	0.62
25:R:296:LEU:HB2	25:R:304:TYR:CG	2.34	0.62
26:S:46:LEU:O	26:S:50:PRO:CB	2.47	0.62
26:S:181:ALA:O	26:S:184:TRP:HB2	1.99	0.62
26:S:185:PHE:O	26:S:189:LEU:N	2.25	0.62
32:Y:64:TRP:N	32:Y:65:ASP:HA	2.13	0.62
9:b:38:LYS:HA	9:b:43:VAL:HG22	1.81	0.62
14:g:84:ASP:OD2	14:g:133:GLY:N	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:26:THR:OG1	3:3:142:PRO:O	2.15	0.62
5:5:10:GLY:HA2	5:5:26:ASP:OD2	1.99	0.62
5:5:142:ALA:HB2	5:5:178:ASP:HB2	1.82	0.62
1:8:212:GLU:HB3	4:i:58:LYS:NZ	2.14	0.62
8:A:65:ASP:HA	14:G:161:LYS:HE3	1.81	0.62
8:A:181:ASN:HD22	8:A:213:ALA:HB2	1.62	0.62
10:C:70:ASN:N	10:C:73:ILE:O	2.24	0.62
10:C:80:LEU:N	10:C:133:VAL:HG22	2.14	0.62
12:E:142:LEU:O	12:E:158:ALA:N	2.27	0.62
12:E:201:LEU:HG	12:E:243:LEU:CD1	2.28	0.62
14:G:90:ASN:O	14:G:94:GLU:HG3	1.98	0.62
15:H:388:ILE:HG22	15:H:392:HIS:CE1	2.34	0.62
15:H:390:ARG:O	15:H:394:LYS:HG3	1.98	0.62
17:J:171:PRO:HB3	17:J:287:ASN:HD21	1.64	0.62
19:L:115:GLU:HA	19:L:131:VAL:HG13	1.79	0.62
19:L:338:LEU:HA	19:L:343:LEU:HD12	1.79	0.62
22:O:64:ASN:O	22:O:66:VAL:N	2.31	0.62
22:O:358:ILE:HG12	22:O:359:SER:H	1.64	0.62
22:O:380:LEU:C	22:O:382:LYS:H	2.07	0.62
23:P:430:GLY:HA2	23:P:433:ILE:HD12	1.80	0.62
24:Q:117:VAL:HA	24:Q:120:LYS:HD2	1.80	0.62
24:Q:145:HIS:O	24:Q:149:LYS:N	2.32	0.62
24:Q:301:ALA:O	24:Q:305:ALA:N	2.24	0.62
26:S:144:LEU:HD13	26:S:155:LEU:HB3	1.80	0.62
28:U:172:GLU:OE2	28:U:176:ARG:NH2	2.32	0.62
29:V:111:HIS:CG	29:V:118:LEU:HD22	2.34	0.62
33:Z:138:ARG:HH12	33:Z:206:ASP:CG	2.06	0.62
33:Z:363:ASP:O	33:Z:366:LYS:CG	2.39	0.62
8:a:69:VAL:HA	14:g:158:TRP:CZ3	2.33	0.62
9:b:67:LEU:N	9:b:71:ILE:O	2.29	0.62
9:b:97:TYR:CE1	9:b:103:GLU:HG3	2.34	0.62
10:c:196:THR:HA	10:c:199:LYS:HD3	1.80	0.62
11:d:94:GLN:HG3	6:k:66:LEU:HB2	1.81	0.62
11:d:202:VAL:O	11:d:204:GLN:HG2	1.99	0.62
13:f:117:GLN:O	13:f:120:THR:OG1	2.09	0.62
5:j:112:ILE:HG12	5:j:119:PRO:HA	1.80	0.62
7:l:179:TYR:HB3	7:l:256:THR:O	1.99	0.62
1:1:179:TYR:CG	1:1:185:GLY:HA2	2.33	0.62
4:4:35:VAL:HA	4:4:153:TYR:HA	1.79	0.62
7:7:119:THR:OG1	7:7:175:MET:N	2.25	0.62
9:B:66:LEU:HD12	9:B:235:PHE:CD2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:124:GLN:HG3	11:D:127:ARG:HG3	1.80	0.62
13:F:147:PHE:HD1	13:F:153:VAL:HG22	1.63	0.62
14:G:22:PHE:O	14:G:26:TYR:N	2.24	0.62
15:H:100:ALA:HA	15:H:173:ARG:HB3	1.81	0.62
17:J:156:GLN:O	17:J:160:ILE:N	2.28	0.62
17:J:327:ILE:HA	17:J:330:ILE:HD12	1.79	0.62
18:K:211:LEU:HD23	18:K:338:ILE:HB	1.82	0.62
18:K:238:ASN:HB2	18:K:241:GLU:HG2	1.80	0.62
19:L:256:ILE:HD12	19:L:303:ARG:NH1	2.14	0.62
20:M:72:ASN:CB	20:M:73:ARG:HG3	2.29	0.62
22:O:11:LEU:HD21	22:O:45:LEU:HD12	1.81	0.62
22:O:15:ARG:CZ	30:W:144:PHE:CD2	2.82	0.62
22:O:283:HIS:O	22:O:287:LEU:N	2.25	0.62
22:O:310:PHE:O	22:O:314:SER:N	2.32	0.62
23:P:133:GLU:HG2	23:P:167:THR:HB	1.81	0.62
24:Q:340:ASP:C	24:Q:376:LYS:HZ1	2.08	0.62
24:Q:392:GLN:HG2	25:R:349:SER:H	1.65	0.62
26:S:221:ALA:CB	26:S:230:LYS:NZ	2.62	0.62
26:S:322:LEU:O	26:S:325:GLY:N	2.30	0.62
27:T:55:LEU:HA	27:T:58:THR:HB	1.80	0.62
33:Z:147:GLU:O	33:Z:213:LYS:NZ	2.32	0.62
33:Z:758:LEU:HD13	33:Z:787:ASP:OD1	1.98	0.62
33:Z:925:VAL:HG22	33:Z:983:LEU:HD12	1.82	0.62
10:c:80:LEU:N	10:c:133:VAL:HG22	2.14	0.62
13:f:18:ARG:HB3	13:f:23:GLU:OE2	1.99	0.62
14:g:75:GLY:HA3	14:g:228:HIS:CD2	2.34	0.62
14:g:123:HIS:CG	14:g:132:PHE:CE1	2.88	0.62
4:i:36:LYS:HZ1	4:i:138:HIS:HA	1.64	0.62
4:i:128:ILE:HG13	4:i:156:LEU:HD12	1.80	0.62
7:l:254:HIS:HB3	7:l:261:ILE:HD12	1.81	0.62
1:1:106:ASN:OD1	1:1:107:SER:N	2.30	0.62
7:7:96:THR:HG22	7:7:101:VAL:HG22	1.81	0.62
7:7:179:TYR:HB3	7:7:256:THR:O	1.99	0.62
1:8:26:ASP:OD1	1:8:27:ASN:N	2.32	0.62
2:9:226:ARG:HG3	2:9:247:VAL:HB	1.81	0.62
9:B:119:GLN:HE22	10:C:83:ASP:HA	1.62	0.62
10:C:191:GLU:O	10:C:195:LYS:N	2.22	0.62
12:E:69:GLU:OE2	12:E:72:ARG:N	2.32	0.62
15:H:195:VAL:HG23	15:H:196:THR:H	1.63	0.62
15:H:418:GLU:O	15:H:421:SER:OG	2.12	0.62
16:I:358:LYS:NZ	16:I:386:ASP:HA	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:100:LEU:H	18:K:110:VAL:HA	1.65	0.62
18:K:113:THR:HB	19:L:125:PRO:HB2	1.79	0.62
18:K:281:ARG:HG2	18:K:285:GLN:HB2	1.81	0.62
19:L:104:LEU:HD23	20:M:127:VAL:HG12	1.81	0.62
20:M:73:ARG:NH1	20:M:157:ASP:OD2	2.33	0.62
21:N:260:ASP:O	21:N:263:SER:OG	2.12	0.62
21:N:375:HIS:HB2	21:N:411:ILE:HD11	1.80	0.62
21:N:740:TRP:HB2	29:V:24:LYS:HZ1	1.63	0.62
22:O:149:LEU:HD23	22:O:152:ASP:OD2	2.00	0.62
22:O:172:TYR:O	22:O:176:SER:N	2.19	0.62
25:R:75:GLY:CA	25:R:92:ILE:HD13	2.30	0.62
25:R:372:ILE:N	26:S:395:ILE:HG22	2.14	0.62
26:S:241:PHE:CE2	26:S:253:PHE:HE2	2.16	0.62
27:T:157:TYR:CD2	27:T:185:ILE:HG23	2.35	0.62
27:T:260:ILE:O	27:T:264:MET:N	2.20	0.62
33:Z:321:PHE:CE1	33:Z:331:GLY:HA2	2.34	0.62
33:Z:575:MET:HB3	33:Z:875:LYS:NZ	2.13	0.62
33:Z:736:LEU:N	33:Z:771:HIS:HE2	1.97	0.62
11:d:44:LEU:O	11:d:213:THR:N	2.32	0.62
12:e:15:PHE:CZ	13:f:126:ARG:HD2	2.35	0.62
12:e:69:GLU:OE2	12:e:72:ARG:N	2.32	0.62
1:1:213:ARG:NE	5:5:151:GLU:OE1	2.32	0.62
2:2:44:VAL:H	2:2:177:THR:HG1	1.42	0.62
7:7:110:ILE:HD11	7:7:120:MET:HE3	1.79	0.62
7:7:151:VAL:HG13	7:7:176:ILE:HG22	1.80	0.62
1:8:210:ALA:HB1	1:8:217:VAL:HG21	1.81	0.62
2:9:103:LEU:O	2:9:107:ASN:N	2.20	0.62
10:C:9:ARG:O	10:C:12:ILE:HG12	1.99	0.62
11:D:32:CYS:HA	11:D:165:GLY:HA3	1.81	0.62
13:F:11:VAL:HG23	14:G:130:ARG:CB	2.30	0.62
14:G:75:GLY:HA3	14:G:228:HIS:CD2	2.35	0.62
15:H:385:ARG:NH2	15:H:411:CYS:O	2.33	0.62
18:K:66:ASP:C	18:K:69:LYS:NZ	2.54	0.62
18:K:213:GLY:HA3	18:K:340:PHE:HB3	1.81	0.62
19:L:105:ILE:HD12	19:L:159:LEU:HD11	1.80	0.62
19:L:251:ILE:HB	19:L:286:ILE:HD13	1.80	0.62
21:N:572:LEU:O	21:N:576:VAL:N	2.24	0.62
22:O:315:LYS:HD3	22:O:321:LYS:HB2	1.80	0.62
23:P:192:ASP:OD2	23:P:194:SER:HB3	1.99	0.62
23:P:204:LEU:HD13	23:P:220:TYR:CD2	2.34	0.62
23:P:415:TRP:HA	23:P:418:ASN:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:342:LEU:HA	26:S:345:TYR:HD2	1.64	0.62
27:T:49:ASP:C	27:T:53:ASN:HB2	2.24	0.62
28:U:173:HIS:C	28:U:176:ARG:NH1	2.58	0.62
29:V:85:ASP:O	29:V:88:GLN:HG2	2.00	0.62
9:b:66:LEU:HD12	9:b:235:PHE:CD2	2.34	0.62
14:g:99:PHE:HE1	14:g:105:THR:HG23	1.64	0.62
14:g:217:SER:HA	14:g:231:VAL:H	1.63	0.62
3:h:20:THR:CA	3:h:188:SER:OG	2.47	0.62
3:h:38:ARG:CZ	3:h:189:GLY:HA3	2.29	0.62
7:l:178:GLY:O	7:l:186:THR:N	2.27	0.62
7:l:188:TYR:CE1	7:l:198:LYS:HB2	2.34	0.62
7:l:254:HIS:O	7:l:261:ILE:N	2.32	0.62
7:l:265:ASN:OD1	7:l:266:HIS:N	2.33	0.62
2:2:49:TYR:HE1	2:2:51:ASN:HB2	1.63	0.62
2:2:92:ASP:OD2	2:2:144:TRP:N	2.21	0.62
2:2:104:VAL:O	2:2:108:ALA:N	2.29	0.62
4:4:236:ARG:HA	5:5:165:GLU:HG3	1.81	0.62
7:7:254:HIS:HB3	7:7:261:ILE:HD12	1.81	0.62
1:8:28:GLY:HA3	1:8:49:ILE:HD11	1.81	0.62
1:8:76:PHE:HE1	2:9:166:LEU:HD13	1.64	0.62
8:A:133:TYR:HD2	14:G:126:TYR:CE1	2.18	0.62
15:H:72:SER:HB3	15:H:172:MET:HG2	1.82	0.62
15:H:144:LYS:HE2	15:H:146:VAL:HG11	1.81	0.62
15:H:235:PHE:HD2	15:H:242:PRO:HD3	1.64	0.62
15:H:392:HIS:HE1	15:H:419:LEU:HB2	1.64	0.62
16:I:248:VAL:HG12	16:I:250:SER:H	1.63	0.62
16:I:391:ASP:HA	16:I:394:ALA:HB3	1.82	0.62
17:J:97:ASP:HB3	17:J:121:MET:SD	2.39	0.62
18:K:347:ARG:HH22	24:Q:202:ARG:NH1	1.98	0.62
19:L:407:ARG:NE	19:L:411:ASN:HD22	1.97	0.62
20:M:190:ILE:HA	20:M:193:LEU:HD12	1.81	0.62
21:N:136:ILE:HA	21:N:139:ARG:HB2	1.79	0.62
21:N:222:TYR:O	21:N:226:ASN:N	2.26	0.62
23:P:168:TYR:HB3	23:P:170:SER:H	1.63	0.62
23:P:346:ILE:O	23:P:350:LEU:HG	1.99	0.62
23:P:379:TYR:HA	23:P:382:ASP:OD2	1.99	0.62
24:Q:31:LEU:HD11	24:Q:58:ILE:HD11	1.82	0.62
24:Q:284:ALA:O	24:Q:287:THR:OG1	2.16	0.62
24:Q:298:ALA:HB2	24:Q:321:TYR:HB3	1.81	0.62
25:R:336:LYS:NZ	25:R:340:GLN:NE2	2.48	0.62
26:S:401:LYS:HA	26:S:445:THR:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:174:LEU:HD22	29:V:213:LEU:HD23	1.80	0.62
33:Z:487:SER:HA	33:Z:522:THR:HG21	1.80	0.62
8:a:158:ASP:OD1	8:a:162:TYR:N	2.33	0.62
9:b:94:HIS:HE2	4:i:93:GLU:CD	2.06	0.62
9:b:95:THR:OG1	9:b:96:SER:N	2.31	0.62
10:c:16:GLU:O	11:d:29:ARG:NH2	2.31	0.62
11:d:32:CYS:HA	11:d:165:GLY:HA3	1.81	0.62
3:h:26:THR:HA	3:h:31:VAL:HA	1.81	0.62
3:h:166:SER:N	3:h:169:GLU:OE1	2.28	0.62
1:8:114:HIS:CE1	12:E:102:TYR:HA	2.34	0.62
2:9:151:GLY:O	2:9:159:PHE:N	2.32	0.62
8:A:158:ASP:OD1	8:A:162:TYR:N	2.33	0.62
9:B:64:VAL:HG22	9:B:74:VAL:HB	1.81	0.62
9:B:97:TYR:CE1	9:B:103:GLU:HG3	2.34	0.62
10:C:141:ASP:OD2	10:C:143:ARG:HB3	1.99	0.62
13:F:95:SER:O	13:F:99:PHE:N	2.29	0.62
15:H:215:LYS:HA	15:H:218:ILE:HB	1.82	0.62
15:H:219:GLU:OE2	15:H:222:ARG:NH2	2.29	0.62
16:I:142:GLU:HB2	16:I:145:CYS:SG	2.40	0.62
17:J:153:LEU:O	17:J:316:PHE:CE1	2.52	0.62
17:J:320:SER:O	17:J:321:VAL:C	2.42	0.62
18:K:158:ILE:HD12	18:K:249:GLU:HG3	1.81	0.62
18:K:275:ASP:HA	18:K:278:ALA:HB3	1.80	0.62
19:L:147:THR:N	19:L:157:ARG:O	2.33	0.62
19:L:180:PHE:HA	19:L:234:ALA:HB1	1.82	0.62
20:M:245:LYS:HZ1	20:M:281:ASP:CB	2.12	0.62
21:N:306:ASN:ND2	21:N:871:MET:SD	2.70	0.62
21:N:364:LYS:HB3	21:N:400:ILE:HG13	1.81	0.62
21:N:578:ASP:O	21:N:584:ARG:NE	2.32	0.62
22:O:280:LEU:HA	22:O:283:HIS:CB	2.28	0.62
23:P:334:ASN:O	23:P:337:HIS:N	2.31	0.62
23:P:393:VAL:N	24:Q:354:PHE:HB2	2.11	0.62
24:Q:201:ALA:O	24:Q:205:ALA:N	2.33	0.62
24:Q:261:VAL:O	24:Q:265:MET:N	2.21	0.62
25:R:110:ILE:HG22	25:R:114:ASN:ND2	2.14	0.62
25:R:141:TYR:HA	25:R:144:ILE:HB	1.80	0.62
26:S:394:ILE:HG22	26:S:395:ILE:HG23	1.81	0.62
33:Z:916:LEU:HD12	33:Z:982:ILE:HG12	1.81	0.62
9:b:119:GLN:NE2	10:c:83:ASP:HA	2.14	0.62
10:c:70:ASN:N	10:c:73:ILE:O	2.24	0.62
11:d:101:GLU:OE2	7:l:196:ARG:CZ	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:40:ILE:HG12	12:e:169:ALA:HB1	1.81	0.62
14:g:110:PRO:HD3	14:g:142:ASP:OD2	2.00	0.62
4:i:68:PRO:O	4:i:71:TRP:NE1	2.26	0.62
5:j:142:ALA:HB2	5:j:178:ASP:HB2	1.81	0.62
5:j:189:ILE:HG13	5:j:198:ARG:NH1	2.15	0.62
6:k:77:PRO:HA	6:k:80:VAL:HB	1.81	0.62
7:l:112:ILE:HB	7:l:116:LEU:HB2	1.79	0.62
7:l:203:CYS:HB2	7:l:212:TYR:CZ	2.34	0.62
3:3:12:LYS:NZ	4:4:120:GLN:OE1	2.29	0.62
4:4:236:ARG:NH2	5:5:162:ASP:H	1.96	0.62
7:7:254:HIS:O	7:7:261:ILE:N	2.32	0.62
2:9:121:GLU:OE2	2:9:154:SER:N	2.32	0.62
8:A:205:PHE:O	8:A:208:THR:HB	2.00	0.62
15:H:344:ASP:HB3	15:H:346:ARG:HH11	1.64	0.62
18:K:260:LEU:O	18:K:264:ASN:ND2	2.32	0.62
19:L:375:ASP:H	19:L:415:LEU:HD23	1.65	0.62
20:M:278:ILE:HB	20:M:323:VAL:HA	1.82	0.62
21:N:623:PHE:O	21:N:627:ILE:N	2.28	0.62
22:O:45:LEU:HD11	30:W:17:ARG:NH1	2.14	0.62
22:O:215:TYR:HE1	22:O:247:ASN:HB2	1.65	0.62
24:Q:155:LEU:O	24:Q:159:ASN:N	2.23	0.62
24:Q:391:ASP:HB2	24:Q:396:TRP:N	2.08	0.62
25:R:370:LYS:C	25:R:373:PRO:HD2	2.24	0.62
26:S:241:PHE:HE2	26:S:253:PHE:HE2	1.48	0.62
26:S:420:GLU:HG2	26:S:438:HIS:NE2	2.15	0.62
26:S:455:GLU:O	26:S:459:GLN:N	2.26	0.62
27:T:215:LYS:C	27:T:219:LYS:NZ	2.58	0.62
28:U:7:LYS:HZ1	28:U:158:PRO:CB	2.08	0.62
29:V:29:ILE:HG12	29:V:202:ASP:O	1.99	0.62
29:V:118:LEU:HD21	29:V:140:VAL:HG22	1.81	0.62
30:W:95:GLN:HE22	30:W:131:THR:HB	1.65	0.62
33:Z:188:ALA:HB1	33:Z:201:LEU:HD22	1.80	0.62
33:Z:492:GLY:O	33:Z:496:ALA:N	2.21	0.62
8:a:209:HIS:HA	8:a:212:ASP:HB2	1.81	0.62
10:c:141:ASP:OD2	10:c:143:ARG:HB3	1.99	0.62
3:h:23:MET:HB2	3:h:145:ILE:HG22	1.82	0.62
4:i:142:ILE:HG12	4:i:148:THR:HG22	1.82	0.62
5:j:135:ASP:OD1	5:j:136:PHE:N	2.26	0.62
3:3:28:LYS:HA	3:3:164:ASN:HD22	1.64	0.62
4:4:206:VAL:HB	4:4:214:GLU:HG2	1.82	0.62
6:6:7:ILE:HD12	6:6:129:PRO:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:13:SER:HB2	13:F:126:ARG:HD3	1.82	0.62
12:E:236:THR:HG22	12:E:240:ILE:HD11	1.82	0.62
14:G:135:SER:OG	14:G:152:GLU:OE1	2.18	0.62
16:I:119:ILE:HA	16:I:128:TYR:O	1.99	0.62
16:I:384:LYS:HZ1	16:I:392:ILE:HA	1.65	0.62
17:J:157:ILE:O	17:J:161:LYS:N	2.27	0.62
17:J:318:PRO:HB2	17:J:319:PRO:CA	2.30	0.62
19:L:111:GLU:HG3	19:L:117:TYR:HE1	1.65	0.62
19:L:113:SER:H	19:L:116:LYS:HB2	1.65	0.62
20:M:267:PHE:HZ	20:M:315:PHE:HE2	1.46	0.62
21:N:704:GLY:HA2	21:N:707:ASN:HB2	1.82	0.62
22:O:40:GLN:HG3	22:O:58:ARG:CG	2.30	0.62
23:P:276:LEU:O	23:P:280:LEU:HG	1.99	0.62
23:P:319:GLU:HB2	23:P:324:GLU:HB2	1.81	0.62
23:P:392:LYS:HA	24:Q:354:PHE:HD2	1.63	0.62
25:R:101:GLU:HG2	25:R:105:LYS:HE3	1.80	0.62
26:S:345:TYR:HA	26:S:348:LEU:HD12	1.82	0.62
26:S:428:ARG:NH1	27:T:157:TYR:HH	1.71	0.62
27:T:205:ILE:O	27:T:209:LEU:N	2.32	0.62
28:U:93:TYR:HA	28:U:121:LEU:HB3	1.82	0.62
29:V:186:GLN:HB3	29:V:190:HIS:CD2	2.35	0.62
29:V:255:ILE:O	29:V:258:GLU:CG	2.48	0.62
30:W:2:VAL:CG1	30:W:4:GLU:HG2	2.30	0.62
33:Z:348:LEU:HD22	33:Z:922:PRO:HG2	1.82	0.62
33:Z:400:ILE:HG22	33:Z:435:GLN:HG3	1.81	0.62
33:Z:460:SER:OG	33:Z:905:ASN:O	2.18	0.62
11:d:33:ALA:O	11:d:164:ILE:N	2.28	0.62
12:e:42:THR:N	12:e:45:GLY:O	2.33	0.62
12:e:176:SER:O	12:e:180:GLN:N	2.30	0.62
14:g:141:VAL:N	14:g:219:CYS:SG	2.62	0.62
3:h:20:THR:O	3:h:188:SER:OG	2.17	0.62
5:j:16:THR:O	5:j:154:TYR:OH	2.14	0.62
6:k:52:ASP:H	7:l:166:LYS:NZ	1.98	0.62
2:2:221:ASP:HB3	2:2:224:SER:HB3	1.80	0.62
4:4:97:LEU:HB3	9:B:90:ARG:HH11	1.65	0.62
6:6:8:ARG:HB3	6:6:13:VAL:HG22	1.81	0.62
9:B:67:LEU:N	9:B:71:ILE:O	2.29	0.62
9:B:212:ALA:HA	9:B:237:LYS:HA	1.82	0.62
11:D:163:THR:HG21	11:D:171:VAL:HG13	1.81	0.62
17:J:78:ILE:HG22	17:J:84:VAL:HG23	1.82	0.62
17:J:342:ASN:HB3	17:J:379:GLN:HE22	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:218:VAL:HG12	19:L:345:ARG:HB3	1.82	0.62
19:L:218:VAL:HA	19:L:345:ARG:HB3	1.82	0.62
19:L:382:MET:HE2	19:L:420:ARG:HG2	1.81	0.62
20:M:245:LYS:HZ1	20:M:281:ASP:CG	2.07	0.62
20:M:274:ALA:O	20:M:320:ARG:NH2	2.29	0.62
21:N:284:PRO:O	21:N:288:ASN:N	2.31	0.62
21:N:921:ARG:NH1	21:N:922:GLN:NE2	2.48	0.62
22:O:15:ARG:CD	30:W:144:PHE:CE2	2.83	0.62
22:O:322:ASP:O	22:O:325:GLU:HB2	1.98	0.62
23:P:168:TYR:HB3	23:P:170:SER:N	2.15	0.62
24:Q:125:ALA:HA	24:Q:130:ARG:HB3	1.81	0.62
25:R:65:TYR:CD1	25:R:68:GLU:HB2	2.34	0.62
25:R:259:PHE:CZ	25:R:332:GLU:HB2	2.35	0.62
25:R:279:LEU:HD12	25:R:282:THR:HB	1.82	0.62
26:S:13:SER:O	26:S:17:ASP:N	2.28	0.62
26:S:406:ASP:O	26:S:409:LEU:HB3	2.00	0.62
28:U:202:SER:O	28:U:206:ASP:N	2.30	0.62
29:V:127:LYS:O	29:V:131:GLN:HG2	1.99	0.62
33:Z:354:PRO:HA	33:Z:357:ILE:HD12	1.82	0.62
12:e:47:VAL:HG23	12:e:193:LEU:HD12	1.82	0.62
4:i:206:VAL:HB	4:i:214:GLU:HG2	1.82	0.62
5:j:57:ALA:O	5:j:61:THR:N	2.24	0.62
3:3:72:GLN:HB3	4:4:113:LYS:NZ	2.15	0.61
7:7:127:CYS:O	7:7:131:GLU:N	2.32	0.61
7:7:154:ALA:HA	7:7:157:ILE:HD12	1.79	0.61
7:7:203:CYS:HB2	7:7:212:TYR:CZ	2.35	0.61
1:8:145:ASP:N	1:8:149:SER:O	2.31	0.61
9:B:38:LYS:HA	9:B:43:VAL:HG22	1.81	0.61
11:D:178:ASN:HB3	11:D:194:LEU:HD11	1.81	0.61
13:F:14:SER:N	13:F:18:ARG:O	2.33	0.61
13:F:48:ALA:N	13:F:212:SER:O	2.20	0.61
13:F:168:ALA:O	13:F:172:LEU:N	2.25	0.61
14:G:99:PHE:HE1	14:G:105:THR:HG23	1.64	0.61
15:H:75:GLY:O	15:H:103:THR:OG1	2.12	0.61
16:I:172:LYS:NZ	16:I:234:LYS:NZ	2.47	0.61
16:I:334:LEU:HB3	16:I:338:LEU:HD23	1.82	0.61
17:J:27:ILE:HD12	18:K:48:TYR:HA	1.81	0.61
17:J:52:ASN:O	17:J:56:ARG:HG2	2.00	0.61
17:J:218:LEU:HB2	17:J:268:VAL:HG13	1.82	0.61
18:K:50:LYS:O	18:K:54:LEU:N	2.22	0.61
18:K:162:GLY:N	18:K:236:ARG:O	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:210:LEU:HB3	18:K:337:LYS:HA	1.82	0.61
18:K:269:ILE:HB	18:K:314:VAL:HA	1.82	0.61
19:L:244:ILE:O	19:L:279:PHE:N	2.28	0.61
19:L:276:CYS:H	19:L:321:THR:HA	1.64	0.61
20:M:416:VAL:HA	20:M:419:ILE:HD12	1.80	0.61
22:O:11:LEU:HD11	22:O:45:LEU:HB2	1.81	0.61
22:O:17:GLU:N	22:O:19:ASP:OD1	2.33	0.61
22:O:307:MET:O	22:O:309:SER:OG	2.17	0.61
23:P:135:GLU:O	23:P:138:ARG:N	2.32	0.61
23:P:377:GLU:OE2	23:P:395:ARG:NE	2.33	0.61
23:P:411:LEU:HA	23:P:414:GLU:HB2	1.81	0.61
24:Q:409:TYR:HA	24:Q:412:ALA:HB3	1.80	0.61
24:Q:426:LEU:HD11	29:V:268:THR:HG21	1.82	0.61
25:R:47:ALA:HA	25:R:50:VAL:HB	1.81	0.61
25:R:331:ARG:HH12	25:R:370:LYS:HD2	1.65	0.61
26:S:135:ASN:O	26:S:138:MET:HB2	1.99	0.61
29:V:26:THR:HG1	29:V:62:THR:HA	1.65	0.61
29:V:106:GLY:HA2	29:V:136:ALA:HB1	1.82	0.61
30:W:109:ARG:HA	30:W:138:ALA:HB3	1.81	0.61
31:X:34:GLU:N	31:X:49:GLU:O	2.33	0.61
33:Z:453:LEU:HD13	33:Z:491:LEU:HB3	1.82	0.61
8:a:205:PHE:O	8:a:208:THR:HB	2.00	0.61
9:b:2:THR:HG22	9:b:3:ASP:H	1.65	0.61
9:b:180:ASN:OD1	9:b:183:LEU:N	2.33	0.61
12:e:22:PHE:HB3	12:e:26:TYR:CZ	2.35	0.61
13:f:2:PHE:CD2	13:f:3:ARG:HG3	2.35	0.61
14:g:224:THR:HB	14:g:227:LEU:HB2	1.81	0.61
3:3:38:ARG:CZ	3:3:189:GLY:HA3	2.29	0.61
7:7:188:TYR:CE1	7:7:198:LYS:HB2	2.34	0.61
7:7:210:PHE:HB2	7:7:239:ALA:HB2	1.82	0.61
2:9:86:ILE:HG12	2:9:147:ILE:HG12	1.80	0.61
8:A:112:MET:HE3	8:A:117:LEU:HB2	1.81	0.61
12:E:40:ILE:HG12	12:E:169:ALA:HB1	1.81	0.61
12:E:47:VAL:HG23	12:E:193:LEU:HD12	1.82	0.61
12:E:167:TYR:HA	13:F:56:LEU:O	2.00	0.61
13:F:2:PHE:CD2	13:F:3:ARG:HG3	2.35	0.61
13:F:37:GLY:N	13:F:159:THR:O	2.21	0.61
13:F:46:LEU:N	13:F:214:ALA:O	2.25	0.61
14:G:32:GLU:HG2	14:G:169:ARG:HH12	1.65	0.61
15:H:272:ILE:O	15:H:307:PHE:N	2.31	0.61
16:I:132:ILE:H	16:I:138:LYS:HZ2	1.46	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:252:SER:HB2	17:J:295:ASN:N	2.14	0.61
18:K:341:PRO:O	18:K:342:SER:HB2	2.00	0.61
19:L:92:GLU:HA	19:L:95:ILE:HB	1.80	0.61
20:M:357:ARG:O	20:M:361:LEU:N	2.21	0.61
21:N:425:ASN:O	21:N:429:GLU:N	2.18	0.61
21:N:575:ALA:O	21:N:584:ARG:HG2	2.00	0.61
21:N:618:ARG:O	21:N:621:THR:OG1	2.18	0.61
21:N:920:VAL:O	21:N:924:LYS:HG2	2.00	0.61
24:Q:125:ALA:HB2	24:Q:130:ARG:CZ	2.30	0.61
24:Q:379:GLN:O	24:Q:383:ASP:N	2.34	0.61
25:R:102:LEU:O	25:R:106:ASN:N	2.25	0.61
26:S:359:LYS:O	26:S:362:SER:OG	2.15	0.61
26:S:419:VAL:O	26:S:423:VAL:HG12	2.01	0.61
27:T:214:GLU:O	27:T:218:GLU:N	2.28	0.61
30:W:125:LEU:HD21	30:W:157:PHE:HB2	1.81	0.61
31:X:26:PRO:O	31:X:100:TRP:NE1	2.32	0.61
31:X:54:GLU:OE1	31:X:102:GLN:NE2	2.33	0.61
33:Z:570:LEU:HB3	33:Z:584:VAL:HG22	1.81	0.61
9:b:119:GLN:HE22	10:c:83:ASP:HA	1.64	0.61
9:b:229:THR:O	9:b:231:LYS:NZ	2.33	0.61
12:e:198:LEU:HA	12:e:201:LEU:HB3	1.82	0.61
5:j:66:MET:O	5:j:69:TYR:HB3	2.00	0.61
3:3:37:SER:C	3:3:52:LYS:HZ1	2.08	0.61
5:5:66:MET:O	5:5:69:TYR:HB3	2.00	0.61
6:6:9:VAL:N	6:6:12:SER:O	2.28	0.61
2:9:44:VAL:HG11	2:9:85:GLY:HA3	1.82	0.61
8:A:19:PHE:N	9:B:20:GLN:OE1	2.34	0.61
8:A:37:GLN:HE22	14:G:20:ARG:HG2	1.65	0.61
8:A:61:ASP:OD2	8:A:63:LEU:HB2	2.00	0.61
9:B:229:THR:O	9:B:231:LYS:NZ	2.33	0.61
10:C:111:LEU:O	10:C:114:ARG:HB3	2.00	0.61
12:E:122:ARG:HA	12:E:132:ARG:HD2	1.82	0.61
14:G:47:VAL:HA	14:G:218:TRP:HA	1.81	0.61
15:H:75:GLY:HA3	15:H:105:ILE:HD11	1.81	0.61
15:H:228:PRO:HB2	15:H:350:LYS:HZ1	1.64	0.61
15:H:274:VAL:HB	15:H:308:PHE:CD1	2.36	0.61
17:J:49:ASN:HA	21:N:611:LYS:NZ	2.10	0.61
18:K:343:LEU:O	18:K:344:ARG:CB	2.48	0.61
21:N:174:LEU:HD11	21:N:213:PHE:CD1	2.33	0.61
21:N:420:THR:O	21:N:424:LYS:N	2.25	0.61
21:N:561:GLY:N	21:N:593:PHE:O	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:11:LEU:HD23	22:O:14:LEU:HB3	1.75	0.61
23:P:313:ILE:O	23:P:317:THR:N	2.25	0.61
24:Q:409:TYR:CZ	25:R:403:LEU:HA	2.34	0.61
27:T:98:GLU:HA	27:T:102:LYS:NZ	2.15	0.61
27:T:182:LYS:O	27:T:185:ILE:HB	2.01	0.61
28:U:84:ASN:HB3	28:U:87:GLU:OE2	2.00	0.61
29:V:202:ASP:CG	29:V:203:TYR:H	2.07	0.61
33:Z:165:TYR:HA	33:Z:200:THR:HB	1.82	0.61
33:Z:881:ILE:O	33:Z:884:THR:OG1	2.18	0.61
8:a:240:ASN:O	8:a:244:ARG:HG2	1.99	0.61
9:b:64:VAL:HG22	9:b:74:VAL:HB	1.81	0.61
10:c:104:GLU:OE1	6:k:79:ALA:HB2	2.00	0.61
11:d:227:GLU:O	11:d:231:GLN:N	2.29	0.61
3:h:37:SER:C	3:h:52:LYS:HZ1	2.08	0.61
4:i:48:ARG:NH1	4:i:198:SER:O	2.33	0.61
7:l:127:CYS:O	7:l:131:GLU:CB	2.44	0.61
1:1:180:GLU:OE2	1:1:190:PRO:HD2	2.00	0.61
2:2:226:ARG:HG3	2:2:247:VAL:HB	1.81	0.61
2:2:254:PHE:HD2	4:4:173:GLN:HE21	1.48	0.61
5:5:72:ASN:HB2	10:C:96:GLN:NE2	2.15	0.61
1:8:180:GLU:OE2	1:8:190:PRO:HD2	2.00	0.61
9:B:57:MET:O	9:B:60:THR:OG1	2.14	0.61
10:C:33:GLY:O	10:C:65:LYS:NZ	2.26	0.61
11:D:24:LEU:HB3	11:D:28:LYS:NZ	2.16	0.61
12:E:14:THR:HG23	13:F:21:GLN:NE2	2.15	0.61
12:E:198:LEU:HA	12:E:201:LEU:HB3	1.82	0.61
13:F:215:ILE:HG22	13:F:225:TYR:HE2	1.65	0.61
14:G:218:TRP:HZ3	14:G:220:SER:HB3	1.64	0.61
15:H:240:ILE:HG12	20:M:368:MET:HE1	1.83	0.61
15:H:382:LEU:HD23	15:H:385:ARG:NH2	2.16	0.61
17:J:213:VAL:O	17:J:248:ASP:N	2.33	0.61
17:J:327:ILE:HG21	17:J:355:GLY:HA2	1.81	0.61
18:K:139:LEU:HD23	18:K:146:LEU:HA	1.82	0.61
18:K:188:VAL:HG13	18:K:313:LYS:HG3	1.82	0.61
18:K:214:PRO:HB2	18:K:217:THR:HG21	1.82	0.61
18:K:255:ARG:CA	18:K:302:GLN:HE22	2.13	0.61
19:L:278:ILE:HB	19:L:323:ILE:HG12	1.82	0.61
20:M:310:ASN:HA	20:M:313:ASP:HB3	1.82	0.61
21:N:601:THR:HG22	21:N:605:ILE:HG13	1.83	0.61
21:N:913:PRO:O	21:N:914:VAL:HG12	2.00	0.61
22:O:56:PRO:O	22:O:59:LEU:HB2	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:225:ASP:CA	22:O:226:LYS:HB2	2.30	0.61
23:P:283:LYS:HB2	23:P:286:ASN:HB2	1.82	0.61
25:R:44:LYS:HG3	25:R:91:TRP:CH2	2.35	0.61
25:R:78:ASP:OD1	25:R:79:LEU:N	2.34	0.61
25:R:372:ILE:CB	26:S:395:ILE:N	2.62	0.61
25:R:380:VAL:N	25:R:389:GLU:O	2.30	0.61
26:S:246:GLU:HG3	27:T:124:SER:HB3	1.83	0.61
26:S:257:LEU:HD13	26:S:260:PRO:HD2	1.82	0.61
26:S:276:LEU:HG	26:S:292:TYR:CE2	2.36	0.61
27:T:262:LYS:HG2	27:T:266:TYR:CE2	2.35	0.61
29:V:107:TRP:NE1	29:V:129:PHE:HD2	1.99	0.61
33:Z:562:TRP:CE2	33:Z:566:LEU:HD11	2.35	0.61
8:a:46:ARG:HA	8:a:51:THR:HA	1.81	0.61
10:c:16:GLU:HB3	11:d:29:ARG:NH2	2.16	0.61
13:f:135:ILE:HD12	13:f:216:VAL:H	1.63	0.61
3:h:38:ARG:N	3:h:52:LYS:NZ	2.43	0.61
1:1:149:SER:HB2	7:l:125:ALA:N	2.16	0.61
2:2:49:TYR:N	2:2:52:GLY:O	2.30	0.61
2:2:220:ARG:HB3	3:3:44:TYR:CE1	2.36	0.61
3:3:27:PHE:CE1	3:3:32:ILE:HG13	2.36	0.61
3:3:185:ASP:OD1	3:3:187:SER:N	2.34	0.61
5:5:49:VAL:HG21	5:5:82:ILE:HG23	1.83	0.61
7:7:265:ASN:OD1	7:7:266:HIS:N	2.33	0.61
1:8:34:ILE:HG12	1:8:155:CYS:HB2	1.83	0.61
8:A:62:LYS:HZ3	14:G:181:ASP:CG	2.08	0.61
12:E:214:GLU:HB2	12:E:233:ASN:HA	1.83	0.61
14:G:54:ILE:H	14:G:212:PHE:HA	1.66	0.61
15:H:322:GLY:HA3	20:M:253:GLN:HA	1.83	0.61
16:I:137:ASP:H	16:I:140:LEU:HD12	1.66	0.61
17:J:81:ASP:OD2	17:J:83:LYS:HB2	2.00	0.61
17:J:115:LEU:HD21	17:J:120:TYR:HA	1.81	0.61
18:K:281:ARG:NH1	18:K:290:ARG:HG2	2.15	0.61
19:L:72:ASP:N	19:L:75:LYS:HZ3	1.97	0.61
21:N:381:GLU:H	21:N:381:GLU:CD	2.08	0.61
22:O:187:SER:O	22:O:191:THR:N	2.24	0.61
23:P:204:LEU:HG	23:P:217:LYS:NZ	2.15	0.61
23:P:206:LYS:O	23:P:210:ASN:N	2.33	0.61
24:Q:271:MET:O	24:Q:273:ASN:ND2	2.34	0.61
26:S:360:PHE:CZ	26:S:380:CYS:HB3	2.35	0.61
28:U:94:HIS:CE1	28:U:122:ILE:HG12	2.36	0.61
28:U:172:GLU:O	28:U:176:ARG:NH2	2.23	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:261:LEU:HD22	29:V:280:LEU:HA	1.81	0.61
33:Z:208:VAL:HG13	33:Z:232:LYS:HA	1.82	0.61
33:Z:323:TYR:CD1	33:Z:501:LYS:HE2	2.36	0.61
33:Z:542:ILE:HA	33:Z:545:SER:HB2	1.81	0.61
33:Z:743:ILE:HA	33:Z:746:ILE:HG12	1.83	0.61
8:a:243:GLU:CG	8:a:244:ARG:HH12	2.13	0.61
9:b:57:MET:O	9:b:60:THR:OG1	2.14	0.61
9:b:173:THR:HG22	9:b:177:LYS:HZ2	1.64	0.61
10:c:59:GLN:CD	10:c:209:ASP:HA	2.26	0.61
10:c:181:LYS:CG	10:c:184:MET:HG3	2.31	0.61
13:f:36:VAL:N	13:f:47:VAL:O	2.23	0.61
13:f:144:LEU:HD21	13:f:159:THR:HG22	1.82	0.61
13:f:215:ILE:HG22	13:f:225:TYR:HE2	1.65	0.61
7:l:82:ARG:N	7:l:200:ASP:O	2.31	0.61
1:1:210:ALA:HB1	1:1:217:VAL:HG21	1.81	0.61
2:2:251:LYS:HE2	4:4:172:LYS:HA	1.83	0.61
4:4:142:ILE:HG12	4:4:148:THR:HG22	1.82	0.61
4:4:163:ALA:HB1	4:4:187:ALA:HB1	1.81	0.61
5:5:57:ALA:O	5:5:61:THR:N	2.24	0.61
7:7:87:ILE:O	7:7:255:VAL:N	2.32	0.61
1:8:29:GLY:O	1:8:61:LYS:NZ	2.33	0.61
11:D:53:LYS:HG2	11:D:54:LEU:H	1.65	0.61
14:G:218:TRP:CZ3	14:G:223:GLU:HB2	2.36	0.61
15:H:171:GLY:C	15:H:173:ARG:N	2.58	0.61
16:I:384:LYS:NZ	16:I:392:ILE:HA	2.15	0.61
17:J:144:ASP:HA	17:J:204:HIS:ND1	2.16	0.61
17:J:164:ILE:HG22	17:J:206:THR:HG21	1.83	0.61
17:J:250:ILE:HA	17:J:260:GLY:HA2	1.83	0.61
18:K:72:GLN:O	18:K:76:LYS:N	2.25	0.61
20:M:345:ARG:HB3	20:M:347:ILE:HD11	1.81	0.61
21:N:124:TYR:HD2	21:N:162:ARG:CZ	2.13	0.61
21:N:771:PHE:HD2	21:N:773:MET:SD	2.23	0.61
22:O:289:GLN:NE2	22:O:327:LEU:O	2.31	0.61
23:P:248:ASP:HB2	23:P:257:TRP:CD1	2.35	0.61
24:Q:78:ILE:HA	24:Q:81:SER:OG	1.99	0.61
25:R:37:LYS:HG3	25:R:38:VAL:HG23	1.83	0.61
26:S:280:ASN:O	26:S:284:LEU:N	2.34	0.61
26:S:386:ASN:O	26:S:390:THR:N	2.31	0.61
26:S:425:ARG:HG3	27:T:154:GLU:C	2.25	0.61
28:U:5:HIS:HB3	28:U:157:LEU:HD21	1.81	0.61
29:V:232:GLU:O	29:V:236:SER:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:70:GLY:HA2	30:W:73:LEU:HB3	1.83	0.61
31:X:33:ILE:HG21	31:X:99:PHE:HB3	1.81	0.61
31:X:48:PHE:CD2	31:X:66:LEU:HB3	2.35	0.61
33:Z:418:ALA:O	33:Z:421:SER:OG	2.17	0.61
33:Z:452:LEU:HA	33:Z:474:LEU:HD11	1.82	0.61
33:Z:834:LEU:HD23	33:Z:837:TYR:HD2	1.66	0.61
13:f:11:VAL:HG21	14:g:128:SER:CA	2.30	0.61
5:j:20:CYS:HA	5:j:112:ILE:HD11	1.82	0.61
5:j:49:VAL:HG21	5:j:82:ILE:HG23	1.83	0.61
7:l:210:PHE:HB2	7:l:239:ALA:HB2	1.82	0.61
1:1:223:ILE:O	1:1:234:GLU:N	2.31	0.61
7:7:82:ARG:N	7:7:200:ASP:O	2.31	0.61
7:7:127:CYS:C	7:7:131:GLU:HB2	2.24	0.61
2:9:204:GLN:HA	2:9:207:GLU:HB3	1.81	0.61
8:A:14:ARG:O	8:A:27:GLN:NE2	2.21	0.61
8:A:208:THR:HG22	8:A:212:ASP:OD2	2.00	0.61
8:A:243:GLU:CG	8:A:244:ARG:HH12	2.13	0.61
9:B:184:GLU:OE1	9:B:187:ASP:N	2.23	0.61
9:B:213:ILE:N	9:B:236:ARG:O	2.22	0.61
11:D:158:SER:OG	12:E:60:GLU:HB2	2.00	0.61
13:F:11:VAL:CA	14:G:130:ARG:HD3	2.30	0.61
13:F:18:ARG:HB3	13:F:23:GLU:OE2	1.99	0.61
13:F:67:ASP:OD2	13:F:69:HIS:CD2	2.54	0.61
13:F:217:GLY:N	13:F:220:THR:O	2.24	0.61
14:G:141:VAL:N	14:G:219:CYS:SG	2.62	0.61
15:H:168:ILE:HD11	15:H:185:LEU:HB3	1.83	0.61
18:K:183:GLU:HG3	18:K:338:ILE:HG12	1.83	0.61
19:L:77:ARG:HD3	20:M:15:ASP:C	2.25	0.61
20:M:70:LYS:HA	29:V:76:THR:HG23	1.82	0.61
21:N:163:LEU:HA	21:N:166:ILE:HB	1.82	0.61
21:N:214:LEU:HD12	21:N:225:LEU:HD21	1.83	0.61
22:O:338:LYS:HZ2	22:O:352:TRP:C	2.09	0.61
23:P:226:LYS:HA	23:P:229:LEU:HD12	1.83	0.61
24:Q:3:LEU:HB2	24:Q:6:SER:HB2	1.83	0.61
29:V:92:MET:HA	29:V:95:LEU:HB2	1.81	0.61
29:V:211:LYS:O	29:V:215:ASN:N	2.30	0.61
31:X:33:ILE:HD13	31:X:99:PHE:CG	2.36	0.61
33:Z:886:VAL:HG12	33:Z:896:LYS:NZ	2.16	0.61
9:b:217:GLU:OE1	9:b:231:LYS:HB2	2.01	0.61
11:d:53:LYS:HG2	11:d:54:LEU:H	1.65	0.61
11:d:178:ASN:HB3	11:d:194:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:34:ILE:HG12	1:1:155:CYS:HB2	1.83	0.61
1:1:204:ARG:NH1	4:4:229:GLN:OE1	2.33	0.61
6:6:62:ALA:O	11:D:94:GLN:NE2	2.34	0.61
6:6:166:GLN:O	6:6:170:LYS:N	2.31	0.61
10:C:181:LYS:CG	10:C:184:MET:HG3	2.31	0.61
12:E:144:ILE:HD11	12:E:158:ALA:HB2	1.83	0.61
15:H:337:ILE:HA	15:H:370:ARG:CZ	2.30	0.61
16:I:247:ILE:HD13	16:I:267:ILE:HD13	1.83	0.61
18:K:140:HIS:O	18:K:144:ASN:HA	2.00	0.61
18:K:161:MET:HB2	18:K:235:ILE:HG23	1.83	0.61
18:K:247:LEU:HA	18:K:294:ARG:NH1	2.15	0.61
20:M:242:THR:N	20:M:276:THR:HA	2.14	0.61
21:N:43:LEU:HD13	21:N:69:TYR:HE1	1.66	0.61
21:N:321:LEU:HB3	21:N:328:PHE:CE2	2.35	0.61
21:N:419:THR:O	21:N:423:LEU:HG	2.00	0.61
22:O:15:ARG:NE	30:W:144:PHE:CD2	2.68	0.61
22:O:191:THR:O	22:O:194:LEU:HB2	2.01	0.61
23:P:126:THR:O	23:P:140:THR:OG1	2.14	0.61
25:R:373:PRO:CD	26:S:395:ILE:HG21	2.18	0.61
25:R:414:LEU:HA	25:R:417:TYR:HB2	1.82	0.61
26:S:152:LEU:HD23	26:S:155:LEU:HD12	1.81	0.61
26:S:215:MET:HA	26:S:218:LEU:HG	1.83	0.61
26:S:404:LEU:HA	26:S:443:ILE:HG13	1.83	0.61
27:T:81:TYR:O	27:T:85:LEU:N	2.30	0.61
27:T:132:HIS:O	27:T:136:LEU:N	2.17	0.61
28:U:10:ILE:HB	28:U:161:ILE:HD13	1.80	0.61
28:U:56:PHE:CE2	28:U:58:GLU:HB2	2.34	0.61
29:V:48:GLU:HA	29:V:110:SER:H	1.66	0.61
29:V:55:GLY:HA3	29:V:64:ASN:O	2.00	0.61
31:X:85:ARG:HB2	31:X:117:LYS:H	1.64	0.61
33:Z:369:PHE:CB	33:Z:390:LEU:CD2	2.45	0.61
33:Z:475:GLN:O	33:Z:478:VAL:HG12	2.00	0.61
33:Z:815:MET:HA	33:Z:830:LEU:HD21	1.82	0.61
9:b:148:TYR:HD1	9:b:158:PRO:HA	1.66	0.61
10:c:93:ILE:HG22	10:c:97:ASN:HD21	1.65	0.61
11:d:88:LYS:HB3	11:d:112:TYR:OH	2.00	0.61
14:g:50:VAL:HG13	14:g:215:GLU:HB3	1.83	0.61
7:l:276:LYS:HG3	7:l:281:SER:O	2.00	0.61
2:2:44:VAL:HG11	2:2:85:GLY:HA3	1.82	0.61
4:4:242:LEU:HD22	7:l:287:GLY:OXT	2.00	0.61
6:6:108:ASP:HB2	6:6:115:GLU:OE2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:82:ARG:HD3	7:7:200:ASP:OD1	2.01	0.61
1:8:56:SER:OG	1:8:58:TYR:O	2.15	0.61
10:C:120:GLN:HE22	11:D:81:ASP:HA	1.66	0.61
11:D:24:LEU:HB3	11:D:28:LYS:HZ2	1.66	0.61
13:F:144:LEU:HD21	13:F:159:THR:HG22	1.82	0.61
13:F:193:GLY:HA2	13:F:196:ALA:HB3	1.83	0.61
21:N:521:LEU:O	21:N:525:ASN:N	2.33	0.61
21:N:584:ARG:O	21:N:588:VAL:N	2.21	0.61
21:N:875:LEU:HD12	21:N:876:PRO:HD2	1.83	0.61
21:N:891:VAL:HB	21:N:908:ARG:HG3	1.82	0.61
22:O:83:LEU:HD13	22:O:128:LEU:HD13	1.83	0.61
23:P:12:ILE:O	23:P:16:GLU:N	2.31	0.61
23:P:38:GLN:HE22	23:P:61:LYS:HE2	1.66	0.61
24:Q:10:GLU:O	24:Q:14:LEU:N	2.26	0.61
24:Q:35:SER:HB2	24:Q:47:ASP:HA	1.81	0.61
24:Q:219:ASP:HB3	24:Q:238:TYR:O	2.01	0.61
24:Q:422:VAL:O	24:Q:425:GLN:HB3	2.00	0.61
26:S:212:SER:HA	26:S:215:MET:HB3	1.82	0.61
26:S:310:LEU:HD12	26:S:313:SER:HB2	1.81	0.61
26:S:433:GLU:HG2	26:S:446:THR:HG21	1.82	0.61
30:W:12:ASN:ND2	30:W:79:THR:HB	2.10	0.61
30:W:49:VAL:H	30:W:71:LYS:NZ	1.92	0.61
31:X:17:TYR:HA	31:X:98:PHE:H	1.66	0.61
33:Z:247:GLN:NE2	33:Z:975:SER:OG	2.33	0.61
8:a:115:ASP:CG	4:i:101:ARG:HH22	2.08	0.61
8:a:208:THR:HG22	8:a:212:ASP:OD2	2.00	0.61
13:f:50:LYS:HZ1	13:f:226:ASP:HB3	1.65	0.61
13:f:193:GLY:HA2	13:f:196:ALA:HB3	1.82	0.61
14:g:54:ILE:H	14:g:212:PHE:HA	1.66	0.61
3:h:27:PHE:CE1	3:h:32:ILE:HG13	2.36	0.61
4:i:46:ASP:CG	4:i:62:LYS:NZ	2.59	0.61
4:i:163:ALA:HB1	4:i:187:ALA:HB1	1.81	0.61
5:j:10:GLY:HA2	5:j:26:ASP:OD2	2.01	0.61
5:j:88:THR:HG23	5:j:124:PHE:HZ	1.65	0.61
7:l:82:ARG:HD3	7:l:200:ASP:OD1	2.01	0.61
7:l:94:ARG:HD2	7:l:245:TYR:O	2.00	0.61
4:4:189:GLN:O	4:4:193:TRP:N	2.22	0.61
6:6:55:GLN:HG3	7:7:163:TYR:CD1	2.36	0.61
6:6:141:PHE:HD1	6:6:144:LEU:HD12	1.66	0.61
7:7:276:LYS:HG3	7:7:281:SER:O	2.00	0.61
8:A:42:SER:N	8:A:171:THR:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:48:LYS:HB2	8:A:195:ASN:HA	1.83	0.61
9:B:180:ASN:OD1	9:B:183:LEU:N	2.34	0.61
11:D:88:LYS:HB3	11:D:112:TYR:OH	2.00	0.61
14:G:110:PRO:HD3	14:G:142:ASP:OD2	2.00	0.61
15:H:68:GLY:HA2	15:H:71:GLU:HB2	1.83	0.61
18:K:153:ASP:HA	19:L:110:LYS:NZ	2.16	0.61
19:L:306:MET:HA	19:L:309:LEU:HB3	1.83	0.61
21:N:480:ALA:HA	21:N:483:LEU:HD12	1.83	0.61
21:N:772:GLN:CB	21:N:869:ASP:H	2.14	0.61
22:O:172:TYR:HB3	22:O:195:TYR:HB2	1.83	0.61
22:O:215:TYR:O	22:O:219:ILE:N	2.24	0.61
23:P:108:LYS:N	23:P:111:ASP:HB2	2.16	0.61
23:P:234:TYR:HB2	23:P:271:SER:HB3	1.82	0.61
23:P:254:GLU:HG3	23:P:288:ASN:ND2	2.16	0.61
23:P:422:LEU:CB	23:P:426:ILE:HD11	2.31	0.61
23:P:431:HIS:HA	29:V:230:TYR:CE2	2.35	0.61
24:Q:420:ASN:ND2	25:R:413:LYS:NZ	2.49	0.61
25:R:117:ILE:HA	25:R:120:LEU:HD12	1.83	0.61
25:R:211:LYS:HA	25:R:214:TYR:HB3	1.83	0.61
25:R:418:GLY:O	25:R:421:VAL:HG23	2.01	0.61
28:U:36:VAL:O	28:U:51:SER:HB2	2.01	0.61
28:U:174:LEU:HD23	28:U:175:LEU:H	1.65	0.61
29:V:108:TYR:OH	29:V:141:VAL:HG21	1.99	0.61
30:W:9:VAL:HB	30:W:112:ALA:HA	1.83	0.61
30:W:27:GLU:HA	30:W:30:ILE:HD12	1.82	0.61
30:W:51:LEU:O	30:W:62:LEU:N	2.32	0.61
33:Z:106:TRP:HB2	33:Z:112:LYS:NZ	2.15	0.61
33:Z:113:SER:HB2	33:Z:143:VAL:HB	1.81	0.61
33:Z:495:ILE:HD11	33:Z:903:MET:HA	1.82	0.61
33:Z:531:ALA:HB1	33:Z:572:ILE:HD12	1.83	0.61
33:Z:604:GLY:O	33:Z:608:TYR:N	2.19	0.61
8:a:61:ASP:OD1	8:a:62:LYS:N	2.34	0.61
8:a:80:GLY:HA3	8:a:233:PHE:CD2	2.36	0.61
10:c:195:LYS:HZ3	10:c:244:ILE:HG13	1.65	0.61
11:d:135:ILE:HB	11:d:148:TYR:HB2	1.83	0.61
14:g:135:SER:OG	14:g:152:GLU:OE1	2.18	0.61
4:i:31:THR:HA	4:i:157:GLY:HA3	1.83	0.61
4:i:178:GLU:N	4:i:178:GLU:OE1	2.34	0.61
7:l:156:LYS:HA	7:l:196:ARG:HD2	1.82	0.61
3:3:23:MET:HB2	3:3:145:ILE:HG22	1.82	0.60
5:5:44:PHE:O	5:5:51:LEU:N	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:148:TYR:HD1	9:B:158:PRO:HA	1.66	0.60
11:D:17:ILE:HG22	11:D:20:VAL:H	1.66	0.60
11:D:47:GLU:CD	11:D:166:ARG:HE	2.09	0.60
13:F:11:VAL:CG2	14:G:130:ARG:CB	2.78	0.60
13:F:187:ASP:CG	13:F:233:TYR:HH	2.09	0.60
15:H:97:LEU:CD1	15:H:189:PRO:HB2	2.31	0.60
16:I:280:PHE:CE2	16:I:282:ASP:HB2	2.36	0.60
18:K:351:LEU:O	18:K:355:THR:OG1	2.13	0.60
21:N:519:VAL:O	21:N:523:LEU:N	2.27	0.60
21:N:899:ASN:HB2	21:N:902:VAL:HG22	1.82	0.60
22:O:330:ARG:HB2	22:O:333:SER:C	2.25	0.60
22:O:334:LEU:HD12	22:O:337:LEU:HG	1.83	0.60
23:P:91:LEU:HA	23:P:130:ILE:HD11	1.83	0.60
23:P:111:ASP:HA	23:P:114:THR:HB	1.81	0.60
23:P:221:TYR:HE1	23:P:240:TYR:O	1.84	0.60
23:P:362:LEU:HD11	23:P:373:GLU:HA	1.83	0.60
25:R:60:ALA:HB1	25:R:99:TYR:CZ	2.36	0.60
25:R:259:PHE:CZ	25:R:329:PHE:HA	2.35	0.60
25:R:288:SER:HA	25:R:292:LEU:CG	2.31	0.60
25:R:396:LYS:HA	26:S:452:TYR:CD2	2.36	0.60
26:S:205:ASN:ND2	27:T:44:LEU:O	2.34	0.60
26:S:425:ARG:HD2	27:T:156:SER:CB	2.31	0.60
30:W:162:ASN:HA	30:W:168:THR:OG1	2.01	0.60
33:Z:357:ILE:HD13	33:Z:959:HIS:ND1	2.16	0.60
33:Z:361:HIS:HA	33:Z:364:ASN:HB2	1.82	0.60
33:Z:416:THR:OG1	33:Z:446:GLU:O	2.18	0.60
9:b:217:GLU:OE1	9:b:231:LYS:HE2	2.00	0.60
11:d:24:LEU:HB3	11:d:28:LYS:NZ	2.16	0.60
3:h:44:TYR:CE2	3:h:46:ALA:HA	2.36	0.60
4:i:236:ARG:NE	5:j:162:ASP:OD1	2.33	0.60
7:l:275:VAL:O	7:l:279:GLU:N	2.34	0.60
3:3:162:ARG:HH21	3:3:165:MET:HE3	1.66	0.60
4:4:34:GLY:HA2	4:4:43:ILE:HA	1.83	0.60
4:4:48:ARG:NH1	4:4:198:SER:O	2.33	0.60
7:7:94:ARG:HD2	7:7:245:TYR:O	2.00	0.60
1:8:128:THR:HG22	1:8:144:PHE:HB2	1.83	0.60
8:A:72:ILE:HD12	8:A:224:GLU:HG2	1.83	0.60
12:E:42:THR:N	12:E:45:GLY:O	2.33	0.60
12:E:72:ARG:NH2	12:E:226:ASP:HA	2.16	0.60
15:H:51:GLN:O	16:I:92:GLU:HA	2.01	0.60
16:I:253:ILE:O	16:I:253:ILE:HG23	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:114:CYS:HB3	17:J:123:HIS:HB3	1.83	0.60
18:K:172:ALA:HA	18:K:181:LYS:HZ3	1.64	0.60
18:K:404:GLN:HG3	18:K:408:GLU:HG2	1.83	0.60
21:N:484:GLY:HA2	21:N:487:LEU:HD12	1.83	0.60
21:N:762:ARG:NE	21:N:764:SER:OG	2.34	0.60
22:O:62:TYR:CE2	22:O:82:LEU:HD22	2.36	0.60
22:O:309:SER:HB3	22:O:347:LEU:CA	2.30	0.60
23:P:117:SER:O	23:P:121:THR:HG23	2.01	0.60
23:P:341:LEU:HA	23:P:344:ARG:CB	2.31	0.60
23:P:422:LEU:CD1	23:P:426:ILE:HD11	2.29	0.60
24:Q:8:LEU:HD22	24:Q:53:GLU:HB3	1.84	0.60
28:U:57:GLU:OE2	30:W:96:LEU:HD22	2.01	0.60
31:X:104:LYS:HG3	31:X:116:ALA:HB1	1.83	0.60
33:Z:449:ALA:HA	33:Z:452:LEU:HB2	1.82	0.60
33:Z:839:SER:HB3	33:Z:845:LEU:HD13	1.81	0.60
10:c:97:ASN:O	10:c:101:THR:N	2.22	0.60
12:e:72:ARG:NH2	12:e:226:ASP:HA	2.16	0.60
13:f:67:ASP:OD2	13:f:69:HIS:CD2	2.54	0.60
3:h:15:GLU:HB2	4:i:147:SER:HB3	1.83	0.60
5:j:161:GLU:HA	5:j:164:PHE:CB	2.29	0.60
6:k:108:ASP:HB2	6:k:115:GLU:OE2	2.01	0.60
6:k:141:PHE:HD1	6:k:144:LEU:HD12	1.66	0.60
2:2:234:ASP:OD2	2:2:236:ASN:HB2	2.01	0.60
3:3:44:TYR:CE2	3:3:46:ALA:HA	2.36	0.60
4:4:65:ARG:NH1	9:B:224:TYR:CZ	2.69	0.60
7:7:156:LYS:HA	7:7:196:ARG:HD2	1.82	0.60
1:8:142:TYR:HE1	1:8:152:ARG:HB2	1.66	0.60
8:A:61:ASP:OD1	8:A:62:LYS:N	2.34	0.60
8:A:80:GLY:HA3	8:A:233:PHE:CD2	2.36	0.60
8:A:197:GLU:N	8:A:197:GLU:OE1	2.35	0.60
17:J:71:TYR:HD2	17:J:115:LEU:HD23	1.65	0.60
18:K:150:LEU:HD11	19:L:128:ILE:HD11	1.83	0.60
18:K:240:SER:HB3	19:L:303:ARG:HA	1.83	0.60
18:K:341:PRO:O	18:K:344:ARG:NH1	2.28	0.60
18:K:363:ALA:HB3	18:K:403:LEU:HA	1.83	0.60
21:N:69:TYR:HA	21:N:72:LEU:HB2	1.82	0.60
21:N:111:GLN:C	21:N:115:LYS:NZ	2.59	0.60
21:N:256:GLN:HA	21:N:259:PHE:HB2	1.83	0.60
21:N:273:LEU:O	21:N:277:LEU:N	2.28	0.60
21:N:742:TRP:HD1	21:N:745:LEU:HG	1.65	0.60
21:N:900:ASN:OD1	21:N:901:GLY:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:98:TYR:HA	22:O:101:ASP:H	1.66	0.60
22:O:169:ASN:ND2	22:O:203:THR:OG1	2.34	0.60
23:P:300:VAL:HA	23:P:303:PHE:CE2	2.37	0.60
24:Q:42:ALA:HA	24:Q:51:ARG:HD3	1.81	0.60
24:Q:79:PRO:O	24:Q:127:ARG:NH2	2.32	0.60
24:Q:356:CYS:HA	24:Q:398:TYR:HA	1.83	0.60
26:S:144:LEU:HB3	26:S:152:LEU:HD22	1.82	0.60
26:S:479:MET:HE3	26:S:483:GLU:OE2	2.01	0.60
28:U:195:LYS:HE3	29:V:230:TYR:N	2.17	0.60
29:V:37:MET:CE	29:V:68:VAL:HG22	2.31	0.60
29:V:54:LEU:HB3	29:V:102:GLN:HB2	1.82	0.60
29:V:126:GLN:O	29:V:129:PHE:N	2.30	0.60
30:W:110:ILE:N	30:W:138:ALA:O	2.34	0.60
30:W:140:ASP:HA	30:W:170:HIS:O	2.01	0.60
33:Z:464:ASP:HB2	33:Z:469:PRO:HG3	1.82	0.60
33:Z:497:PHE:CE2	33:Z:502:ASN:HB3	2.35	0.60
33:Z:985:LYS:HG3	33:Z:990:ARG:HA	1.82	0.60
8:a:48:LYS:HD2	8:a:195:ASN:OD1	2.01	0.60
8:a:61:ASP:OD2	8:a:63:LEU:HB2	2.00	0.60
8:a:239:GLU:O	8:a:243:GLU:N	2.20	0.60
10:c:135:PHE:HB2	10:c:137:TYR:CZ	2.36	0.60
12:e:15:PHE:HZ	13:f:126:ARG:NH1	2.00	0.60
12:e:165:TYR:HB3	13:f:58:SER:H	1.65	0.60
3:h:185:ASP:OD1	3:h:187:SER:N	2.34	0.60
1:1:30:THR:OG1	1:1:161:ALA:N	2.32	0.60
3:3:152:PHE:O	3:h:155:GLY:N	2.35	0.60
7:7:229:LEU:HD21	7:7:263:HIS:CD2	2.36	0.60
10:C:135:PHE:HB2	10:C:137:TYR:CZ	2.36	0.60
11:D:135:ILE:HB	11:D:148:TYR:HB2	1.83	0.60
11:D:227:GLU:O	11:D:231:GLN:N	2.29	0.60
16:I:194:ILE:HG13	16:I:236:VAL:HB	1.82	0.60
18:K:148:ASP:OD1	18:K:149:ILE:N	2.34	0.60
18:K:300:LEU:HD21	18:K:328:LEU:HG	1.84	0.60
19:L:88:TYR:HA	20:M:33:ARG:HH21	1.63	0.60
19:L:379:ALA:HB1	19:L:419:VAL:HG21	1.82	0.60
21:N:875:LEU:HB3	21:N:878:GLN:H	1.64	0.60
21:N:889:ARG:HB3	21:N:909:GLU:HB2	1.82	0.60
22:O:40:GLN:HG3	22:O:58:ARG:HG3	1.82	0.60
22:O:126:ILE:O	22:O:130:ASP:N	2.28	0.60
23:P:130:ILE:HG12	23:P:132:VAL:HG23	1.84	0.60
24:Q:183:LYS:O	24:Q:187:LYS:N	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:427:PHE:CE1	25:R:420:ALA:HB2	2.36	0.60
25:R:34:THR:HA	25:R:70:TYR:CG	2.35	0.60
26:S:204:ASP:CB	27:T:92:ASN:HD21	2.15	0.60
27:T:27:LEU:HB2	27:T:28:PRO:HD3	1.84	0.60
27:T:89:TYR:CE1	27:T:102:LYS:HB3	2.35	0.60
28:U:75:ASN:HA	28:U:78:GLU:OE1	2.01	0.60
29:V:277:LYS:O	29:V:277:LYS:HG3	2.00	0.60
30:W:12:ASN:HA	30:W:16:SER:HB2	1.83	0.60
33:Z:435:GLN:HE22	33:Z:438:LYS:NZ	1.99	0.60
33:Z:512:ILE:HG22	33:Z:523:ALA:HB2	1.83	0.60
11:d:83:ARG:HA	11:d:86:ILE:HD12	1.84	0.60
13:f:95:SER:O	13:f:99:PHE:N	2.29	0.60
3:h:162:ARG:HH21	3:h:165:MET:HE3	1.66	0.60
4:i:42:VAL:HG23	4:i:206:VAL:HG22	1.84	0.60
5:j:62:THR:HA	6:k:85:ARG:HH22	1.66	0.60
7:l:76:THR:CB	7:l:108:LYS:NZ	2.50	0.60
7:l:229:LEU:HD21	7:l:263:HIS:CD2	2.36	0.60
2:2:151:GLY:O	2:2:159:PHE:N	2.32	0.60
3:3:89:TYR:HE2	14:G:115:ARG:NH2	2.00	0.60
3:3:138:VAL:O	2:9:94:GLN:NE2	2.33	0.60
3:3:167:LYS:HE2	3:3:196:VAL:HG11	1.83	0.60
5:5:98:ARG:C	5:5:101:GLY:H	2.09	0.60
7:7:179:TYR:CE1	7:7:257:GLU:HB2	2.37	0.60
2:9:49:TYR:CE1	2:9:203:VAL:HG22	2.36	0.60
8:A:30:TYR:HA	8:A:33:LYS:HG2	1.83	0.60
9:B:77:GLY:HA3	9:B:132:VAL:HG12	1.84	0.60
11:D:83:ARG:HA	11:D:86:ILE:HD12	1.84	0.60
12:E:45:GLY:HA2	12:E:153:TYR:CZ	2.36	0.60
12:E:240:ILE:CA	12:E:243:LEU:CD2	2.79	0.60
16:I:244:PHE:HA	16:I:278:ILE:HB	1.84	0.60
17:J:187:LEU:HB2	17:J:293:ALA:HB1	1.83	0.60
18:K:135:MET:HE2	18:K:149:ILE:HD12	1.84	0.60
19:L:255:TYR:HD2	19:L:258:GLU:HG2	1.65	0.60
20:M:35:LYS:O	20:M:70:LYS:N	2.34	0.60
20:M:162:GLU:C	20:M:164:ASP:H	2.10	0.60
20:M:276:THR:O	20:M:322:LYS:N	2.34	0.60
21:N:492:THR:HG22	21:N:528:ARG:HG2	1.84	0.60
21:N:712:ASN:CG	21:N:873:ARG:NH1	2.59	0.60
22:O:267:ASP:HA	22:O:270:ILE:HG23	1.84	0.60
23:P:425:HIS:O	23:P:429:ILE:N	2.30	0.60
24:Q:282:LEU:HD22	24:Q:296:ILE:HG23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:37:LYS:HG2	25:R:42:GLN:HE22	1.66	0.60
25:R:168:ILE:HG23	25:R:209:ARG:NH1	2.15	0.60
26:S:403:SER:OG	26:S:404:LEU:N	2.35	0.60
26:S:442:PHE:O	26:S:444:GLU:HG3	2.00	0.60
27:T:164:LEU:O	27:T:170:ASN:ND2	2.32	0.60
27:T:264:MET:O	27:T:268:ILE:N	2.33	0.60
30:W:143:ASN:HD21	30:W:149:GLN:N	1.99	0.60
31:X:63:PRO:C	31:X:65:SER:H	2.07	0.60
33:Z:224:LEU:HD21	33:Z:233:LEU:HB2	1.82	0.60
33:Z:606:CYS:HB3	33:Z:875:LYS:HZ3	1.65	0.60
11:d:234:THR:HA	11:d:237:GLU:OE1	2.01	0.60
12:e:45:GLY:HA2	12:e:153:TYR:CZ	2.36	0.60
12:e:194:LYS:HA	12:e:197:GLU:CD	2.27	0.60
12:e:202:LYS:O	12:e:206:GLN:N	2.26	0.60
13:f:37:GLY:N	13:f:159:THR:O	2.21	0.60
7:l:179:TYR:CE1	7:l:257:GLU:HB2	2.37	0.60
1:1:40:ALA:O	1:1:226:VAL:N	2.35	0.60
1:1:101:LYS:HD2	12:e:108:ASN:HD21	1.65	0.60
2:2:35:GLN:HE22	2:2:143:LEU:C	2.10	0.60
3:3:137:SER:N	2:9:91:SER:HB3	2.17	0.60
4:4:31:THR:HA	4:4:157:GLY:HA3	1.83	0.60
7:7:195:THR:HG22	7:7:197:LEU:HD21	1.84	0.60
8:A:48:LYS:HD2	8:A:195:ASN:OD1	2.01	0.60
9:B:190:HIS:HA	9:B:193:LEU:HD12	1.83	0.60
9:B:217:GLU:OE1	9:B:231:LYS:HB2	2.01	0.60
10:C:93:ILE:HG22	10:C:97:ASN:HD21	1.66	0.60
10:C:173:GLN:NE2	10:C:177:GLN:OE1	2.34	0.60
12:E:194:LYS:HA	12:E:197:GLU:CD	2.27	0.60
13:F:88:LEU:O	13:F:91:GLN:N	2.34	0.60
13:F:171:TYR:HA	13:F:174:ARG:HB3	1.83	0.60
14:G:68:GLN:NE2	14:G:86:ARG:NH1	2.49	0.60
14:G:91:ARG:HG2	14:G:119:TYR:CE2	2.37	0.60
14:G:178:LYS:O	14:G:182:HIS:N	2.28	0.60
15:H:326:ASP:OD1	16:I:295:ASN:ND2	2.34	0.60
16:I:228:GLY:HA3	16:I:350:PHE:CG	2.36	0.60
16:I:383:THR:C	16:I:420:LYS:HZ2	2.09	0.60
18:K:213:GLY:N	18:K:318:THR:O	2.27	0.60
19:L:402:ALA:O	19:L:407:ARG:N	2.28	0.60
21:N:426:ILE:O	21:N:429:GLU:HB3	2.00	0.60
21:N:496:GLU:HA	21:N:499:HIS:HD1	1.66	0.60
22:O:19:ASP:HB3	22:O:72:LYS:HZ1	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:236:HIS:O	22:O:238:ILE:N	2.29	0.60
23:P:124:VAL:O	23:P:136:ARG:HB3	2.01	0.60
25:R:312:TYR:O	25:R:316:LEU:N	2.33	0.60
25:R:380:VAL:HA	26:S:398:THR:HG22	1.83	0.60
25:R:382:ASP:OD1	25:R:384:VAL:N	2.34	0.60
25:R:407:GLY:HA3	28:U:281:LEU:HD13	1.82	0.60
27:T:126:LEU:O	27:T:129:LEU:HB3	2.01	0.60
33:Z:551:LEU:HD11	33:Z:586:GLU:OE2	2.01	0.60
33:Z:793:PHE:CG	33:Z:830:LEU:HB2	2.37	0.60
10:c:173:GLN:NE2	10:c:177:GLN:OE1	2.34	0.60
11:d:216:LYS:HB2	11:d:220:ASP:CG	2.26	0.60
1:1:170:ASP:O	1:1:175:PHE:N	2.34	0.60
1:8:40:ALA:O	1:8:226:VAL:N	2.35	0.60
2:9:35:GLN:HE22	2:9:143:LEU:C	2.10	0.60
8:A:71:TYR:N	8:A:224:GLU:OE2	2.35	0.60
12:E:22:PHE:HB3	12:E:26:TYR:CZ	2.35	0.60
12:E:166:ARG:HB3	13:F:58:SER:HB3	1.83	0.60
14:G:158:TRP:HB2	14:G:160:TYR:CE1	2.37	0.60
15:H:387:ASN:HA	15:H:390:ARG:NH1	2.16	0.60
18:K:255:ARG:HA	18:K:302:GLN:NE2	2.17	0.60
20:M:411:LYS:HG3	20:M:414:ASP:H	1.66	0.60
21:N:376:LYS:NZ	21:N:750:SER:O	2.35	0.60
21:N:624:ALA:HA	21:N:627:ILE:HD12	1.83	0.60
22:O:79:VAL:HA	22:O:83:LEU:HB2	1.82	0.60
23:P:91:LEU:HB3	23:P:95:TYR:CE2	2.37	0.60
23:P:147:LYS:HG2	23:P:152:LYS:HD2	1.83	0.60
23:P:247:THR:O	23:P:250:ILE:HB	2.01	0.60
23:P:419:VAL:HG21	29:V:241:THR:HB	1.83	0.60
25:R:80:GLU:HB3	25:R:94:PHE:CD2	2.35	0.60
26:S:258:GLU:OE1	26:S:258:GLU:N	2.32	0.60
28:U:225:ILE:O	28:U:228:LYS:HB3	2.00	0.60
29:V:89:ALA:HA	29:V:92:MET:HB2	1.84	0.60
30:W:6:THR:N	30:W:48:THR:O	2.35	0.60
33:Z:135:LEU:HD12	33:Z:138:ARG:HB3	1.83	0.60
33:Z:369:PHE:CD2	33:Z:859:LYS:CE	2.75	0.60
8:a:72:ILE:HD12	8:a:224:GLU:HG2	1.83	0.60
12:e:122:ARG:HA	12:e:132:ARG:HD2	1.82	0.60
13:f:121:GLN:NE2	14:g:130:ARG:O	2.32	0.60
14:g:68:GLN:NE2	14:g:86:ARG:NH1	2.49	0.60
4:i:235:PRO:O	4:i:238:THR:OG1	2.11	0.60
4:i:244:GLU:HA	5:j:198:ARG:HA	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:128:THR:HG22	1:1:144:PHE:HB2	1.83	0.60
2:2:40:THR:OG1	2:2:62:SER:O	2.14	0.60
5:5:88:THR:HG23	5:5:124:PHE:HZ	1.65	0.60
6:6:51:GLY:HA3	7:7:166:LYS:HZ2	1.66	0.60
2:9:234:ASP:OD2	2:9:236:ASN:HB2	2.01	0.60
9:B:217:GLU:OE1	9:B:231:LYS:HE2	2.01	0.60
13:F:77:LEU:HD12	13:F:129:GLY:HA3	1.83	0.60
15:H:340:LEU:O	15:H:346:ARG:NH1	2.35	0.60
16:I:123:PRO:HG3	17:J:92:GLY:HA3	1.83	0.60
16:I:198:VAL:HA	16:I:323:LYS:HG3	1.83	0.60
19:L:421:LYS:HE3	20:M:345:ARG:NH1	2.16	0.60
21:N:242:PHE:HA	21:N:245:LEU:HB3	1.82	0.60
21:N:398:ARG:O	21:N:402:GLY:N	2.34	0.60
22:O:385:GLU:HB3	28:U:190:LEU:HD23	1.81	0.60
23:P:12:ILE:C	23:P:61:LYS:NZ	2.60	0.60
23:P:110:LEU:HA	23:P:113:ASN:HB2	1.84	0.60
24:Q:90:LYS:HZ3	24:Q:129:LYS:HE3	1.67	0.60
24:Q:159:ASN:HA	24:Q:162:LEU:HD12	1.84	0.60
24:Q:422:VAL:HB	29:V:265:GLU:OE2	2.02	0.60
25:R:107:GLU:O	25:R:111:LYS:N	2.24	0.60
25:R:176:ARG:HG2	25:R:243:LEU:HD21	1.82	0.60
26:S:140:LEU:HD23	26:S:162:VAL:HG21	1.83	0.60
26:S:269:GLU:O	26:S:272:TYR:HB3	2.00	0.60
26:S:330:LEU:HA	26:S:333:PHE:HD1	1.67	0.60
26:S:399:TYR:CE2	26:S:401:LYS:HB2	2.37	0.60
26:S:472:HIS:CE1	28:U:283:ARG:NH1	2.70	0.60
27:T:146:ILE:HG23	27:T:147:LYS:H	1.66	0.60
27:T:152:LEU:HA	27:T:157:TYR:CE1	2.36	0.60
28:U:52:PHE:HE2	28:U:80:CYS:SG	2.25	0.60
28:U:199:GLY:H	29:V:233:LYS:HZ1	1.48	0.60
31:X:25:THR:HB	31:X:26:PRO:HD2	1.83	0.60
33:Z:388:GLY:HA3	33:Z:421:SER:HB2	1.82	0.60
8:a:147:ASP:N	8:a:151:GLY:O	2.26	0.60
9:b:31:GLY:O	9:b:166:LYS:N	2.33	0.60
9:b:123:GLN:HB2	10:c:129:ARG:NH2	2.17	0.60
10:c:33:GLY:O	10:c:65:LYS:NZ	2.26	0.60
13:f:73:SER:HG	13:f:133:LEU:HB2	1.67	0.60
13:f:137:TYR:CE1	13:f:218:LYS:HA	2.36	0.60
14:g:9:ASP:HB3	14:g:22:PHE:HD2	1.67	0.60
5:j:118:LYS:NZ	5:j:119:PRO:O	2.35	0.60
1:1:27:ASN:ND2	2:2:168:VAL:HG11	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:117:TYR:OH	7:l:130:TRP:NE1	2.34	0.60
1:1:145:ASP:N	1:1:149:SER:O	2.31	0.60
2:2:44:VAL:O	2:2:177:THR:N	2.35	0.60
2:2:49:TYR:CE1	2:2:203:VAL:HG22	2.36	0.60
5:5:20:CYS:HA	5:5:112:ILE:HD11	1.82	0.60
6:6:52:ASP:N	7:7:166:LYS:NZ	2.50	0.60
7:7:76:THR:HA	7:7:92:ASP:OD2	2.01	0.60
1:8:200:ILE:O	1:8:204:ARG:HG3	2.02	0.60
9:B:1:MET:HG3	14:G:129:VAL:HG12	1.83	0.60
11:D:122:GLN:HB2	12:E:134:MET:HG3	1.83	0.60
15:H:69:VAL:HG13	16:I:153:THR:HB	1.83	0.60
15:H:385:ARG:O	15:H:389:PHE:N	2.19	0.60
15:H:389:PHE:CD1	15:H:419:LEU:HB3	2.37	0.60
16:I:197:SER:HB3	16:I:346:ARG:HG3	1.83	0.60
17:J:116:ARG:HB3	17:J:119:SER:HB2	1.84	0.60
18:K:280:LYS:HD3	18:K:296:LEU:HD23	1.83	0.60
21:N:70:TYR:CE2	26:S:219:LYS:HA	2.37	0.60
21:N:180:SER:HB3	21:N:184:LYS:HE3	1.84	0.60
21:N:205:SER:C	21:N:209:LYS:HZ3	2.08	0.60
22:O:254:LEU:O	22:O:258:LEU:HG	2.01	0.60
22:O:341:ILE:HB	23:P:357:TYR:CD1	2.37	0.60
23:P:383:LEU:O	23:P:387:GLY:N	2.35	0.60
23:P:397:ALA:HB1	23:P:399:ILE:HB	1.84	0.60
24:Q:76:GLU:HA	24:Q:120:LYS:NZ	2.17	0.60
24:Q:134:LYS:HA	24:Q:137:LEU:HD12	1.83	0.60
24:Q:304:GLU:O	24:Q:308:ASN:N	2.26	0.60
25:R:31:PHE:CE1	25:R:320:LYS:HA	2.36	0.60
26:S:13:SER:HA	26:S:16:ASN:HB2	1.84	0.60
26:S:217:PHE:CE2	26:S:221:ALA:HB2	2.37	0.60
28:U:84:ASN:O	28:U:87:GLU:HG2	2.01	0.60
28:U:205:LYS:HG2	28:U:209:GLU:HG3	1.83	0.60
30:W:52:ILE:HA	30:W:61:VAL:HA	1.84	0.60
33:Z:474:LEU:HD21	33:Z:492:GLY:HA3	1.84	0.60
10:c:191:GLU:O	10:c:195:LYS:N	2.22	0.60
14:g:198:LYS:HZ1	14:g:199:ILE:CG1	2.15	0.60
4:i:138:HIS:HB3	4:i:140:PHE:CE2	2.33	0.60
5:j:11:ILE:HG21	5:j:142:ALA:H	1.67	0.60
5:j:98:ARG:C	5:j:101:GLY:H	2.09	0.60
1:1:119:LYS:HD3	1:1:124:TYR:CD2	2.37	0.60
1:1:200:ILE:O	1:1:204:ARG:HG3	2.02	0.60
3:3:89:TYR:HE2	14:G:115:ARG:HH21	1.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:93:GLU:OE1	9:B:104:TYR:OH	2.19	0.60
5:5:118:LYS:NZ	5:5:119:PRO:O	2.35	0.60
7:7:201:ILE:HD11	7:7:219:TYR:CD2	2.37	0.60
1:8:225:ILE:O	1:8:232:ARG:N	2.21	0.60
2:9:254:PHE:HD2	4:i:173:GLN:HE21	1.50	0.60
9:B:243:ILE:O	9:B:247:LEU:N	2.32	0.60
10:C:59:GLN:CD	10:C:209:ASP:HA	2.26	0.60
11:D:169:LYS:O	11:D:173:GLU:HG2	2.02	0.60
12:E:69:GLU:HB2	12:E:228:PHE:CD2	2.37	0.60
12:E:165:TYR:HB3	13:F:58:SER:H	1.66	0.60
12:E:235:LYS:HA	12:E:238:GLU:CD	2.27	0.60
12:E:241:LYS:NZ	12:E:245:GLU:OE2	2.33	0.60
13:F:12:THR:HA	14:G:23:GLN:NE2	2.17	0.60
13:F:137:TYR:CE1	13:F:218:LYS:HA	2.37	0.60
15:H:155:PHE:CD1	20:M:76:PRO:HG2	2.37	0.60
15:H:271:PHE:CE2	15:H:273:ARG:HB2	2.37	0.60
17:J:198:LEU:HD11	17:J:316:PHE:CE2	2.36	0.60
18:K:51:LEU:HA	18:K:54:LEU:HB2	1.83	0.60
19:L:306:MET:O	19:L:310:THR:N	2.25	0.60
19:L:364:HIS:HB3	19:L:392:ARG:HG2	1.84	0.60
20:M:277:ILE:HA	20:M:322:LYS:HB2	1.84	0.60
20:M:377:GLN:CB	20:M:381:ARG:HH12	2.02	0.60
21:N:325:PHE:CD2	29:V:184:ASN:HB2	2.36	0.60
21:N:337:GLY:O	21:N:341:ALA:N	2.35	0.60
21:N:512:ASN:HA	21:N:515:ARG:NH1	2.16	0.60
23:P:308:LEU:HD22	23:P:346:ILE:HA	1.82	0.60
23:P:395:ARG:NH2	24:Q:365:ILE:HD11	2.17	0.60
23:P:395:ARG:O	23:P:398:LYS:N	2.34	0.60
26:S:177:ASN:HD22	26:S:228:GLU:HG2	1.67	0.60
26:S:383:LEU:HD23	26:S:386:ASN:ND2	2.11	0.60
26:S:436:ILE:HG12	26:S:443:ILE:HG23	1.84	0.60
27:T:91:SER:OG	27:T:92:ASN:N	2.34	0.60
29:V:53:MET:O	29:V:105:VAL:HG22	2.01	0.60
29:V:107:TRP:O	29:V:138:ALA:C	2.45	0.60
29:V:241:THR:HG21	29:V:297:THR:HG21	1.73	0.60
30:W:4:GLU:CD	30:W:109:ARG:HB2	2.27	0.60
33:Z:801:HIS:HD2	33:Z:808:SER:HB2	1.66	0.60
8:a:48:LYS:HB2	8:a:195:ASN:HA	1.84	0.60
10:c:102:TYR:CE1	6:k:83:PHE:HB2	2.36	0.60
12:e:235:LYS:HA	12:e:238:GLU:CD	2.27	0.60
13:f:72:LEU:HD13	13:f:132:LEU:HD22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:167:LYS:HE2	3:h:196:VAL:HG11	1.83	0.60
7:l:82:ARG:HE	7:l:185:PRO:C	2.10	0.60
1:1:95:HIS:O	1:1:100:ASP:N	2.23	0.59
4:4:68:PRO:HA	9:B:224:TYR:CD2	2.36	0.59
7:7:82:ARG:HE	7:7:185:PRO:C	2.10	0.59
1:8:170:ASP:O	1:8:175:PHE:N	2.34	0.59
8:A:32:PHE:O	8:A:35:THR:OG1	2.13	0.59
8:A:54:ILE:HG23	8:A:225:VAL:HG22	1.83	0.59
10:C:16:GLU:HB3	11:D:29:ARG:HH22	1.67	0.59
10:C:160:TRP:HA	11:D:55:GLN:HA	1.83	0.59
12:E:15:PHE:N	13:F:21:GLN:OE1	2.29	0.59
13:F:39:ARG:N	13:F:157:TYR:O	2.29	0.59
15:H:102:CYS:HB3	15:H:170:GLU:HB2	1.83	0.59
15:H:144:LYS:H	20:M:75:LEU:H	1.50	0.59
18:K:357:ALA:HB3	18:K:368:LEU:HD11	1.84	0.59
19:L:189:GLN:NE2	19:L:348:GLU:HG3	2.17	0.59
20:M:121:THR:OG1	20:M:125:GLN:N	2.35	0.59
21:N:763:GLY:H	21:N:907:ASP:N	2.00	0.59
22:O:185:PHE:HD1	22:O:188:PHE:CD2	2.20	0.59
22:O:190:TYR:O	22:O:194:LEU:N	2.19	0.59
23:P:59:LEU:HA	23:P:62:ILE:HD12	1.84	0.59
24:Q:179:LEU:HD22	24:Q:214:THR:HG23	1.83	0.59
26:S:465:ILE:HG21	27:T:260:ILE:HG23	1.83	0.59
31:X:11:ARG:HB3	31:X:103:GLU:HB2	1.84	0.59
33:Z:353:VAL:HA	33:Z:356:ASP:HB2	1.83	0.59
8:a:42:SER:N	8:a:171:THR:O	2.34	0.59
8:a:54:ILE:HG23	8:a:225:VAL:HG22	1.83	0.59
8:a:197:GLU:N	8:a:197:GLU:OE1	2.35	0.59
9:b:212:ALA:HA	9:b:237:LYS:HA	1.82	0.59
5:j:50:PHE:CZ	5:j:195:VAL:HG21	2.37	0.59
1:1:21:PHE:CD1	2:2:142:PRO:HG3	2.37	0.59
3:3:172:ASP:HA	3:3:175:LYS:HB3	1.85	0.59
16:I:384:LYS:HE2	16:I:387:LEU:HD12	1.83	0.59
18:K:139:LEU:HA	18:K:145:ALA:O	2.02	0.59
18:K:371:LEU:HA	18:K:374:ARG:HB2	1.83	0.59
19:L:418:ALA:O	19:L:422:VAL:N	2.34	0.59
20:M:127:VAL:HG11	20:M:153:TYR:CG	2.37	0.59
20:M:375:ASN:HD21	20:M:377:GLN:HE21	1.48	0.59
20:M:392:LYS:O	20:M:396:VAL:N	2.24	0.59
20:M:410:VAL:HG12	20:M:415:PHE:CE2	2.37	0.59
21:N:212:ASP:HA	21:N:215:MET:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:289:GLN:OE1	22:O:327:LEU:HB3	2.02	0.59
23:P:284:ILE:HG23	23:P:285:GLN:H	1.67	0.59
23:P:363:LEU:O	23:P:367:GLU:N	2.23	0.59
24:Q:162:LEU:O	24:Q:166:LYS:N	2.35	0.59
24:Q:379:GLN:NE2	24:Q:383:ASP:OD1	2.35	0.59
25:R:34:THR:HA	25:R:70:TYR:CD1	2.37	0.59
25:R:61:PRO:O	25:R:64:LYS:HB3	2.01	0.59
25:R:168:ILE:CG2	25:R:206:ARG:HE	2.15	0.59
26:S:155:LEU:HA	26:S:158:PHE:HB2	1.83	0.59
26:S:368:LYS:HA	26:S:371:LEU:HD12	1.84	0.59
27:T:78:PHE:HE2	27:T:109:TYR:HB2	1.66	0.59
28:U:11:ALA:O	28:U:14:VAL:HB	2.01	0.59
28:U:64:ASP:CG	28:U:105:LYS:HZ2	2.10	0.59
28:U:263:LYS:HD2	28:U:264:ALA:H	1.66	0.59
31:X:13:GLY:HA3	31:X:29:VAL:O	2.01	0.59
33:Z:382:ALA:HA	33:Z:385:PHE:CD2	2.37	0.59
33:Z:790:MET:HG2	33:Z:826:ARG:O	2.02	0.59
9:b:190:HIS:HA	9:b:193:LEU:HD12	1.83	0.59
10:c:111:LEU:O	10:c:114:ARG:HB3	2.00	0.59
10:c:175:LEU:HB3	10:c:199:LYS:HZ1	1.67	0.59
11:d:169:LYS:O	11:d:173:GLU:HG2	2.02	0.59
12:e:69:GLU:HB2	12:e:228:PHE:CD2	2.37	0.59
12:e:144:ILE:HD11	12:e:158:ALA:HB2	1.83	0.59
12:e:180:GLN:NE2	13:f:56:LEU:HD22	2.18	0.59
12:e:236:THR:HG22	12:e:240:ILE:HD11	1.82	0.59
14:g:52:LYS:N	14:g:213:GLU:O	2.25	0.59
14:g:218:TRP:CZ3	14:g:223:GLU:HB2	2.36	0.59
7:l:94:ARG:HA	7:l:104:GLN:HA	1.84	0.59
3:3:158:ASP:OD2	3:h:180:GLN:NE2	2.34	0.59
7:7:275:VAL:O	7:7:279:GLU:N	2.34	0.59
1:8:237:GLU:CD	2:9:194:ARG:HH12	2.07	0.59
9:B:12:PHE:H	10:C:21:GLN:NE2	2.00	0.59
11:D:15:GLY:HA2	12:E:26:TYR:HB3	1.84	0.59
15:H:389:PHE:HB3	15:H:404:TRP:CE3	2.37	0.59
15:H:406:LEU:CA	15:H:409:ARG:HH11	2.15	0.59
16:I:184:ILE:CG2	16:I:231:LEU:HB3	2.32	0.59
17:J:346:VAL:HG11	17:J:382:PHE:HB3	1.83	0.59
20:M:358:ALA:HA	20:M:361:LEU:HB3	1.83	0.59
21:N:614:ASN:ND2	21:N:617:VAL:HG23	2.17	0.59
22:O:44:SER:OG	22:O:73:ILE:HG12	2.02	0.59
22:O:68:LYS:HB3	22:O:72:LYS:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:383:LYS:H	27:T:262:LYS:HZ1	1.50	0.59
23:P:180:ILE:HA	23:P:183:GLN:OE1	2.02	0.59
23:P:263:HIS:HA	23:P:266:TYR:HB3	1.83	0.59
24:Q:70:ALA:HB1	24:Q:73:LYS:HD2	1.85	0.59
24:Q:348:CYS:HA	24:Q:351:ILE:HG12	1.84	0.59
26:S:390:THR:C	26:S:394:ILE:CD1	2.73	0.59
26:S:408:CYS:SG	26:S:419:VAL:HG11	2.42	0.59
26:S:482:PRO:CG	28:U:295:LYS:HB3	2.32	0.59
32:Y:65:ASP:N	32:Y:67:VAL:H	1.98	0.59
33:Z:451:ALA:HB1	33:Z:455:ILE:HG13	1.83	0.59
9:b:13:SER:N	9:b:17:LYS:O	2.28	0.59
11:d:31:THR:HA	11:d:166:ARG:HG2	1.83	0.59
11:d:104:VAL:HG21	11:d:109:LEU:HB2	1.84	0.59
13:f:215:ILE:HG22	13:f:225:TYR:CE2	2.37	0.59
14:g:91:ARG:HG2	14:g:119:TYR:CE2	2.37	0.59
14:g:158:TRP:HB2	14:g:160:TYR:CE1	2.37	0.59
7:l:127:CYS:C	7:l:131:GLU:HB2	2.27	0.59
1:1:142:TYR:HE1	1:1:152:ARG:HB2	1.66	0.59
4:4:88:ILE:HG13	4:4:112:LEU:HD23	1.84	0.59
2:9:104:VAL:O	2:9:108:ALA:N	2.29	0.59
9:B:14:PRO:HA	10:C:24:TYR:CZ	2.37	0.59
11:D:104:VAL:HG21	11:D:109:LEU:HB2	1.84	0.59
11:D:162:GLN:HE22	11:D:172:ARG:NE	2.01	0.59
13:F:69:HIS:CE1	13:F:70:MET:HE3	2.37	0.59
13:F:215:ILE:HG22	13:F:225:TYR:CE2	2.37	0.59
15:H:306:ILE:N	15:H:350:LYS:O	2.35	0.59
16:I:359:LYS:O	16:I:363:GLY:N	2.26	0.59
17:J:252:SER:HB3	17:J:257:ARG:NH1	2.17	0.59
19:L:386:PHE:HE2	19:L:419:VAL:HG13	1.66	0.59
20:M:145:LEU:CB	20:M:159:LEU:HB2	2.32	0.59
20:M:182:ASP:HB3	20:M:230:LEU:HD13	1.84	0.59
20:M:228:LYS:HG2	20:M:349:PHE:CG	2.37	0.59
21:N:43:LEU:O	21:N:47:GLU:N	2.32	0.59
21:N:139:ARG:HA	21:N:142:GLU:CD	2.26	0.59
21:N:773:MET:N	21:N:869:ASP:OD2	2.35	0.59
22:O:15:ARG:CD	30:W:144:PHE:HE2	2.15	0.59
22:O:255:LEU:HA	22:O:258:LEU:HD12	1.83	0.59
22:O:310:PHE:HE2	22:O:343:GLN:HA	1.67	0.59
22:O:326:HIS:HA	22:O:329:MET:HE2	1.84	0.59
23:P:233:GLU:O	23:P:237:VAL:HG23	2.02	0.59
23:P:287:ASP:C	23:P:289:ASN:N	2.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:11:ALA:HA	24:Q:23:ALA:HB1	1.83	0.59
24:Q:246:TYR:CE2	24:Q:261:VAL:HG21	2.38	0.59
24:Q:415:LEU:HB3	24:Q:419:LEU:HD11	1.83	0.59
27:T:86:LYS:O	27:T:90:PHE:N	2.29	0.59
28:U:165:GLU:H	29:V:42:ARG:HH22	1.51	0.59
30:W:38:GLN:O	30:W:42:ASN:N	2.34	0.59
33:Z:218:GLU:OE2	33:Z:248:TYR:HD2	1.85	0.59
33:Z:621:LEU:O	33:Z:625:THR:N	2.34	0.59
9:b:49:LYS:N	9:b:208:THR:O	2.31	0.59
13:f:14:SER:N	13:f:18:ARG:O	2.33	0.59
14:g:32:GLU:HG2	14:g:169:ARG:HH12	1.65	0.59
6:k:13:VAL:O	6:k:184:VAL:N	2.32	0.59
1:1:41:VAL:HG21	1:1:199:VAL:HG11	1.85	0.59
1:1:98:HIS:HA	12:e:111:SER:OG	2.01	0.59
2:2:151:GLY:N	2:2:159:PHE:O	2.35	0.59
2:2:219:TYR:CD2	4:4:168:GLU:HB3	2.38	0.59
4:4:243:LYS:HB3	5:5:199:TYR:CD2	2.36	0.59
1:8:41:VAL:HG21	1:8:199:VAL:HG11	1.85	0.59
11:D:71:VAL:HG11	11:D:109:LEU:HD13	1.85	0.59
14:G:50:VAL:HG13	14:G:215:GLU:HB3	1.83	0.59
14:G:103:TYR:C	14:G:105:THR:H	2.11	0.59
15:H:167:ASP:CB	15:H:174:VAL:HG11	2.31	0.59
15:H:273:ARG:HG3	15:H:307:PHE:HD2	1.67	0.59
15:H:402:ILE:HB	15:H:440:GLU:OE1	2.02	0.59
16:I:114:ASP:C	16:I:116:ASP:H	2.09	0.59
16:I:137:ASP:OD2	16:I:139:GLU:HB2	2.01	0.59
16:I:423:VAL:HA	17:J:306:ARG:HH11	1.66	0.59
18:K:155:ASP:HB3	19:L:142:LYS:NZ	2.17	0.59
19:L:67:HIS:HE1	20:M:4:LEU:HB2	1.67	0.59
19:L:222:GLY:O	19:L:228:LYS:NZ	2.35	0.59
21:N:314:LEU:HD22	21:N:339:MET:SD	2.43	0.59
21:N:520:GLY:HA2	21:N:523:LEU:HD12	1.84	0.59
22:O:87:LYS:HZ1	22:O:138:LEU:HD13	1.66	0.59
25:R:176:ARG:HG3	25:R:243:LEU:HD11	1.83	0.59
25:R:336:LYS:NZ	25:R:340:GLN:HE22	2.00	0.59
26:S:320:ILE:O	26:S:323:LEU:N	2.35	0.59
26:S:355:GLY:HA3	26:S:387:VAL:HB	1.85	0.59
27:T:66:ALA:HB2	27:T:81:TYR:HB2	1.84	0.59
27:T:69:SER:HB2	27:T:74:ASN:HB3	1.84	0.59
27:T:221:ALA:O	27:T:226:TRP:N	2.33	0.59
28:U:132:LEU:N	29:V:215:ASN:HD21	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:419:VAL:O	33:Z:422:ILE:HB	2.02	0.59
33:Z:486:SER:O	33:Z:490:ILE:N	2.21	0.59
33:Z:516:THR:HG23	33:Z:562:TRP:CD2	2.37	0.59
8:a:71:TYR:N	8:a:224:GLU:OE2	2.35	0.59
8:a:110:TYR:CD2	4:i:104:ARG:NH1	2.71	0.59
8:a:135:ARG:NH1	14:g:15:PHE:HZ	2.01	0.59
12:e:205:LYS:HZ1	12:e:211:LYS:CE	2.14	0.59
5:j:147:PHE:O	5:j:151:GLU:N	2.36	0.59
6:k:9:VAL:N	6:k:12:SER:O	2.28	0.59
6:k:52:ASP:O	6:k:56:PHE:N	2.36	0.59
1:1:205:ASP:OD2	4:4:232:TYR:OH	2.10	0.59
4:4:46:ASP:CG	4:4:62:LYS:NZ	2.59	0.59
5:5:50:PHE:CZ	5:5:195:VAL:HG21	2.37	0.59
2:9:58:ASP:HB2	2:9:225:SER:HB3	1.84	0.59
2:9:251:LYS:HE2	4:i:172:LYS:HA	1.85	0.59
11:D:12:SER:O	11:D:15:GLY:N	2.34	0.59
13:F:72:LEU:HD13	13:F:132:LEU:HD22	1.84	0.59
15:H:242:PRO:HG3	15:H:350:LYS:HZ1	1.68	0.59
18:K:63:LEU:HD22	21:N:565:ASN:CG	2.28	0.59
18:K:132:LYS:HD2	18:K:149:ILE:HD13	1.85	0.59
18:K:158:ILE:HG23	18:K:242:PHE:CE1	2.37	0.59
19:L:374:PHE:CE2	19:L:415:LEU:HD13	2.37	0.59
20:M:148:VAL:HG22	20:M:155:ILE:HA	1.83	0.59
21:N:352:ASN:HB3	21:N:355:TRP:HB2	1.83	0.59
21:N:459:ASN:N	21:N:488:CYS:SG	2.75	0.59
23:P:221:TYR:HA	23:P:224:LEU:HB3	1.83	0.59
23:P:416:SER:O	23:P:419:VAL:HB	2.03	0.59
25:R:147:LYS:HE3	25:R:177:LEU:C	2.28	0.59
25:R:421:VAL:HG12	25:R:422:ARG:H	1.67	0.59
27:T:85:LEU:HD21	27:T:102:LYS:HG2	1.84	0.59
29:V:257:GLU:HG2	29:V:283:THR:HG22	1.85	0.59
31:X:87:PHE:O	31:X:98:PHE:HA	2.03	0.59
31:X:87:PHE:HD2	31:X:99:PHE:HD2	1.51	0.59
31:X:120:GLU:O	31:X:124:LYS:HG2	2.02	0.59
33:Z:318:LYS:O	33:Z:322:GLU:N	2.35	0.59
33:Z:509:LEU:HB2	33:Z:530:LEU:HD11	1.85	0.59
12:e:71:ASP:OD2	12:e:73:HIS:ND1	2.36	0.59
12:e:101:LEU:HD13	7:l:136:SER:OG	2.02	0.59
14:g:103:TYR:C	14:g:105:THR:H	2.11	0.59
14:g:109:ILE:HG12	14:g:142:ASP:HB3	1.85	0.59
4:i:120:GLN:HB2	4:i:122:HIS:CD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j:50:PHE:HE2	5:j:195:VAL:HG11	1.67	0.59
5:j:164:PHE:HB2	5:j:189:ILE:HD11	1.85	0.59
6:k:49:GLU:HG3	7:l:166:LYS:HZ3	1.67	0.59
7:l:76:THR:HA	7:l:92:ASP:OD2	2.01	0.59
2:2:58:ASP:HB2	2:2:225:SER:HB3	1.84	0.59
4:4:127:LEU:O	4:4:142:ILE:N	2.36	0.59
1:8:119:LYS:HD3	1:8:124:TYR:CD2	2.37	0.59
9:B:2:THR:HG22	9:B:3:ASP:H	1.66	0.59
13:F:123:TYR:CD2	14:G:128:SER:HB2	2.37	0.59
14:G:9:ASP:HB3	14:G:22:PHE:HD2	1.66	0.59
14:G:71:ASP:OD2	14:G:73:HIS:ND1	2.36	0.59
16:I:242:ALA:HB3	16:I:278:ILE:HG12	1.83	0.59
18:K:207:ARG:NH2	18:K:306:PHE:HB2	2.17	0.59
19:L:149:ASP:OD2	19:L:151:THR:N	2.33	0.59
20:M:132:VAL:HG21	20:M:155:ILE:HB	1.84	0.59
20:M:386:PHE:HZ	20:M:423:GLN:HB2	1.66	0.59
20:M:417:GLU:HA	20:M:420:SER:HB2	1.85	0.59
21:N:309:ILE:O	21:N:711:ARG:NH2	2.35	0.59
21:N:626:GLY:HA2	21:N:663:ILE:HD11	1.84	0.59
21:N:880:ARG:NH2	21:N:899:ASN:OD1	2.36	0.59
23:P:63:VAL:O	23:P:67:ALA:N	2.22	0.59
23:P:134:VAL:O	23:P:138:ARG:NE	2.34	0.59
24:Q:99:THR:O	24:Q:103:LYS:HG2	2.03	0.59
24:Q:388:GLY:N	24:Q:400:TYR:HB3	2.18	0.59
26:S:12:SER:O	26:S:16:ASN:N	2.26	0.59
26:S:238:LEU:HA	26:S:241:PHE:HD2	1.67	0.59
26:S:397:LEU:HB3	26:S:445:THR:HB	1.84	0.59
26:S:399:TYR:HB3	26:S:401:LYS:O	2.02	0.59
26:S:400:LYS:O	26:S:445:THR:N	2.35	0.59
26:S:417:GLN:H	26:S:419:VAL:HG23	1.67	0.59
27:T:82:PHE:HA	27:T:85:LEU:HB3	1.85	0.59
27:T:224:ARG:HB3	27:T:226:TRP:NE1	2.17	0.59
28:U:32:ARG:HA	28:U:95:SER:HB2	1.84	0.59
29:V:108:TYR:CB	29:V:139:VAL:HB	2.32	0.59
30:W:107:HIS:NE2	30:W:136:ASN:O	2.35	0.59
30:W:179:ARG:HB3	30:W:184:ASN:HD21	1.68	0.59
31:X:14:VAL:HG23	31:X:50:TRP:CD1	2.38	0.59
33:Z:792:VAL:HA	33:Z:795:THR:HB	1.83	0.59
8:a:98:LYS:HZ3	3:h:88:GLN:CA	2.16	0.59
9:b:224:TYR:HA	4:i:212:ASP:HB3	1.83	0.59
12:e:214:GLU:HB2	12:e:233:ASN:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:68:GLU:O	13:f:222:PHE:N	2.19	0.59
13:f:171:TYR:HA	13:f:174:ARG:HB3	1.83	0.59
14:g:152:GLU:N	14:g:156:SER:O	2.31	0.59
7:l:191:ASP:CG	7:l:193:ASP:HB2	2.27	0.59
2:2:127:GLU:HG2	13:f:100:ASN:N	2.18	0.59
5:5:161:GLU:N	5:5:161:GLU:OE1	2.34	0.59
6:6:150:PRO:HD3	7:l:283:ASN:ND2	2.18	0.59
8:A:147:ASP:N	8:A:151:GLY:O	2.26	0.59
9:B:32:VAL:HG11	9:B:63:LYS:HZ2	1.68	0.59
9:B:175:LEU:O	9:B:179:TRP:N	2.32	0.59
10:C:97:ASN:O	10:C:101:THR:N	2.22	0.59
10:C:124:GLN:HA	11:D:127:ARG:NE	2.17	0.59
11:D:14:ASP:CG	11:D:16:HIS:HD2	2.11	0.59
11:D:216:LYS:HB2	11:D:220:ASP:CG	2.26	0.59
11:D:234:THR:HA	11:D:237:GLU:OE1	2.01	0.59
15:H:247:LEU:HD21	15:H:358:PRO:HA	1.84	0.59
15:H:257:THR:HG21	15:H:273:ARG:HH11	1.68	0.59
15:H:280:VAL:HG23	15:H:314:VAL:HG12	1.85	0.59
15:H:406:LEU:HA	15:H:409:ARG:HD2	1.85	0.59
16:I:107:GLY:HA3	16:I:149:LEU:HD12	1.82	0.59
16:I:252:LEU:HD12	16:I:253:ILE:H	1.68	0.59
16:I:299:GLU:OE2	16:I:301:GLU:HB3	2.02	0.59
18:K:281:ARG:HD3	18:K:293:GLN:NE2	2.18	0.59
18:K:326:PRO:O	18:K:330:ARG:N	2.35	0.59
19:L:93:ASN:O	19:L:97:ALA:N	2.27	0.59
21:N:743:PHE:O	21:N:745:LEU:N	2.35	0.59
21:N:761:ILE:O	21:N:769:PRO:HD2	2.02	0.59
22:O:126:ILE:HA	22:O:129:ILE:HB	1.85	0.59
23:P:104:LEU:O	23:P:107:SER:CB	2.49	0.59
23:P:395:ARG:HB2	24:Q:361:HIS:CE1	2.38	0.59
24:Q:19:GLN:HE21	24:Q:22:GLU:H	1.49	0.59
25:R:286:LEU:C	25:R:288:SER:H	2.10	0.59
28:U:163:ALA:HA	28:U:164:GLU:HB2	1.84	0.59
33:Z:99:LEU:HD23	33:Z:119:LEU:HD21	1.83	0.59
33:Z:198:GLU:HA	33:Z:201:LEU:HD12	1.85	0.59
8:a:30:TYR:HA	8:a:33:LYS:HG2	1.83	0.59
9:b:243:ILE:O	9:b:247:LEU:N	2.32	0.59
10:c:186:VAL:O	10:c:190:ILE:N	2.27	0.59
11:d:47:GLU:CD	11:d:166:ARG:HE	2.09	0.59
14:g:71:ASP:OD2	14:g:73:HIS:ND1	2.36	0.59
3:h:17:SER:HB3	3:h:40:THR:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:27:PHE:CE2	3:h:29:ASP:HB2	2.38	0.59
6:k:135:TYR:HA	6:k:138:PHE:CD2	2.38	0.59
6:k:165:VAL:HA	6:k:168:LEU:HD12	1.85	0.59
5:5:65:GLU:HB3	10:C:100:LYS:HG3	1.82	0.59
5:5:161:GLU:O	5:5:165:GLU:N	2.27	0.59
6:6:117:TYR:CD2	6:6:127:GLU:HB2	2.38	0.59
6:6:165:VAL:HA	6:6:168:LEU:HD12	1.85	0.59
7:7:94:ARG:HA	7:7:104:GLN:HA	1.84	0.59
1:8:92:LYS:HZ3	13:F:93:ASN:HB2	1.67	0.59
2:9:77:PRO:HA	2:9:83:VAL:HA	1.85	0.59
2:9:246:GLN:HG2	2:9:248:GLU:OE2	2.03	0.59
14:G:152:GLU:N	14:G:156:SER:O	2.31	0.59
15:H:456:LYS:HZ2	16:I:331:ILE:HD12	1.66	0.59
18:K:153:ASP:HA	19:L:110:LYS:HZ1	1.68	0.59
21:N:87:ASP:CG	21:N:88:ARG:H	2.09	0.59
21:N:273:LEU:HA	21:N:276:GLU:HB2	1.85	0.59
22:O:250:TRP:HH2	22:O:271:LYS:HB2	1.68	0.59
22:O:342:ASP:OD2	22:O:345:ASN:HB2	2.03	0.59
23:P:311:TRP:O	23:P:315:GLN:HG2	2.02	0.59
24:Q:138:SER:HA	24:Q:141:LEU:HB3	1.84	0.59
24:Q:422:VAL:O	24:Q:426:LEU:HG	2.03	0.59
25:R:67:CYS:SG	25:R:92:ILE:HG13	2.43	0.59
25:R:334:ARG:NH2	25:R:367:ASP:HB2	2.17	0.59
25:R:335:ARG:NH2	25:R:374:ASN:HB2	2.18	0.59
29:V:130:GLU:OE1	29:V:157:ARG:HG3	2.02	0.59
30:W:32:SER:O	30:W:35:PHE:HB3	2.03	0.59
33:Z:201:LEU:O	33:Z:205:LEU:N	2.22	0.59
33:Z:298:PHE:CE1	33:Z:307:HIS:HE1	2.20	0.59
33:Z:793:PHE:HB3	33:Z:830:LEU:N	2.18	0.59
10:c:36:ILE:HA	10:c:164:SER:HA	1.85	0.59
11:d:14:ASP:CG	11:d:16:HIS:HD2	2.11	0.59
11:d:24:LEU:CB	11:d:28:LYS:NZ	2.66	0.59
13:f:137:TYR:HA	13:f:142:ALA:HA	1.85	0.59
7:l:127:CYS:HB3	7:l:131:GLU:OE2	2.03	0.59
7:l:195:THR:HG22	7:l:197:LEU:HD21	1.84	0.59
7:l:201:ILE:HD11	7:l:219:TYR:CD2	2.37	0.59
7:l:249:SER:HA	7:l:268:VAL:HG23	1.85	0.59
2:2:246:GLN:HG2	2:2:248:GLU:OE2	2.03	0.59
3:3:27:PHE:CE2	3:3:29:ASP:HB2	2.38	0.59
3:3:59:LYS:O	3:3:121:TYR:N	2.36	0.59
5:5:18:LYS:HG2	5:5:159:GLU:OE2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:72:ASN:O	5:5:76:LEU:N	2.26	0.59
6:6:135:TYR:HA	6:6:138:PHE:CD2	2.38	0.59
1:8:212:GLU:HG3	4:i:225:ARG:HD2	1.84	0.59
1:8:241:ASP:HA	4:i:193:TRP:HA	1.84	0.59
8:A:126:GLN:NE2	9:B:84:VAL:HG22	2.17	0.59
8:A:208:THR:O	8:A:212:ASP:N	2.29	0.59
12:E:177:GLU:HG2	12:E:178:GLY:H	1.68	0.59
15:H:191:ILE:HD12	15:H:289:ARG:HG2	1.84	0.59
17:J:174:PHE:HA	17:J:177:LEU:HB3	1.83	0.59
18:K:411:TYR:O	18:K:415:VAL:N	2.36	0.59
19:L:165:PRO:HB2	19:L:168:TYR:HB2	1.85	0.59
19:L:247:PRO:HA	19:L:281:ASP:HB3	1.84	0.59
20:M:148:VAL:HA	20:M:155:ILE:HA	1.83	0.59
20:M:411:LYS:HE2	20:M:413:GLU:HB3	1.84	0.59
21:N:668:THR:HA	21:N:675:VAL:HG11	1.83	0.59
21:N:767:ALA:O	21:N:917:ILE:N	2.31	0.59
22:O:127:LEU:HD11	22:O:166:ARG:HG3	1.85	0.59
22:O:170:SER:O	22:O:173:SER:OG	2.20	0.59
22:O:382:LYS:HD3	22:O:383:LYS:NZ	2.17	0.59
23:P:108:LYS:C	23:P:112:LEU:N	2.53	0.59
24:Q:259:CYS:O	24:Q:263:LYS:N	2.28	0.59
24:Q:293:SER:OG	24:Q:296:ILE:HG12	2.03	0.59
25:R:70:TYR:CE2	25:R:74:ASN:HB2	2.37	0.59
25:R:96:GLN:O	25:R:100:ASN:ND2	2.35	0.59
25:R:273:SER:H	25:R:276:LEU:HB2	1.68	0.59
25:R:408:ASP:HA	25:R:411:LEU:HD12	1.84	0.59
26:S:319:CYS:HB3	26:S:379:LEU:HD13	1.84	0.59
26:S:339:GLN:HG2	26:S:340:LYS:H	1.67	0.59
26:S:420:GLU:HG2	26:S:438:HIS:CE1	2.37	0.59
27:T:98:GLU:HA	27:T:102:LYS:HZ3	1.68	0.59
29:V:110:SER:O	29:V:112:PRO:HD3	2.03	0.59
29:V:289:GLU:O	29:V:292:ILE:N	2.23	0.59
32:Y:73:PHE:O	32:Y:77:LEU:N	2.27	0.59
33:Z:404:ASP:HB3	33:Z:408:TYR:HE2	1.67	0.59
33:Z:926:ASN:HA	33:Z:957:LEU:O	2.03	0.59
8:a:185:HIS:O	8:a:188:LYS:HB3	2.02	0.59
8:a:214:LEU:O	8:a:216:THR:OG1	2.21	0.59
9:b:176:GLU:HG2	10:c:56:LEU:HD13	1.85	0.59
11:d:17:ILE:HG22	11:d:20:VAL:H	1.66	0.59
13:f:69:HIS:CE1	13:f:70:MET:HE3	2.37	0.59
13:f:117:GLN:HB2	14:g:83:PRO:HB3	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:172:ASP:HA	3:h:175:LYS:HB3	1.85	0.59
5:j:124:PHE:CD1	5:j:130:ILE:HA	2.38	0.59
1:1:64:ASP:OD1	1:1:66:GLY:N	2.36	0.58
1:1:112:ILE:HA	1:1:115:LEU:HD12	1.84	0.58
3:3:17:SER:HB3	3:3:40:THR:O	2.02	0.58
3:3:121:TYR:HB2	3:3:197:LEU:HB3	1.85	0.58
3:3:149:GLY:HA3	3:3:181:ALA:HB1	1.85	0.58
5:5:27:LEU:HD21	5:5:186:VAL:HG12	1.85	0.58
5:5:147:PHE:O	5:5:151:GLU:N	2.36	0.58
6:6:52:ASP:O	6:6:56:PHE:N	2.36	0.58
7:7:191:ASP:CG	7:7:193:ASP:HB2	2.27	0.58
7:7:242:ARG:NH1	5:j:183:TRP:CH2	2.70	0.58
7:7:249:SER:HA	7:7:268:VAL:HG23	1.85	0.58
2:9:183:MET:HG2	4:i:161:LEU:HB3	1.83	0.58
2:9:235:LYS:HG3	2:9:236:ASN:OD1	2.03	0.58
8:A:124:LEU:O	8:A:127:ILE:HB	2.03	0.58
11:D:31:THR:HA	11:D:166:ARG:HG2	1.83	0.58
13:F:43:HIS:HA	13:F:217:GLY:HA2	1.85	0.58
16:I:169:SER:CB	16:I:263:LEU:HB3	2.32	0.58
17:J:42:ARG:O	17:J:45:GLU:HB3	2.02	0.58
17:J:77:LYS:O	17:J:85:LEU:N	2.36	0.58
17:J:166:LEU:HD11	17:J:173:LEU:HD12	1.84	0.58
17:J:276:LEU:HB3	17:J:309:ARG:HG2	1.84	0.58
18:K:74:HIS:O	18:K:78:GLU:HG2	2.03	0.58
18:K:187:ALA:HB2	18:K:336:ARG:HE	1.68	0.58
20:M:167:VAL:HB	20:M:170:MET:HG3	1.85	0.58
20:M:329:ARG:HH21	20:M:346:LYS:HZ3	1.51	0.58
21:N:474:SER:HB3	21:N:477:SER:HB2	1.85	0.58
21:N:585:ARG:NH2	21:N:619:CYS:SG	2.76	0.58
21:N:612:SER:H	21:N:618:ARG:CZ	2.16	0.58
22:O:179:PHE:CB	22:O:188:PHE:HB2	2.33	0.58
22:O:206:THR:O	22:O:209:GLU:HB3	2.03	0.58
22:O:248:TYR:HA	22:O:251:LEU:HB2	1.85	0.58
22:O:301:PHE:O	22:O:303:LYS:HB2	2.03	0.58
23:P:220:TYR:O	23:P:224:LEU:N	2.23	0.58
23:P:419:VAL:HG13	29:V:238:LEU:HA	1.84	0.58
24:Q:389:VAL:HB	25:R:346:LYS:H	1.67	0.58
27:T:57:ILE:HA	27:T:60:ARG:HB2	1.84	0.58
28:U:114:THR:OG1	28:U:118:PRO:HB3	2.02	0.58
29:V:278:LYS:HG2	29:V:279:HIS:N	2.16	0.58
30:W:114:VAL:N	30:W:142:ILE:O	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:162:ASN:ND2	30:W:165:GLN:HA	2.17	0.58
32:Y:86:ARG:HA	32:Y:89:GLN:HB2	1.83	0.58
33:Z:394:TYR:HE2	33:Z:858:GLY:C	2.09	0.58
33:Z:793:PHE:CD1	33:Z:830:LEU:HD13	2.37	0.58
11:d:122:GLN:HB2	12:e:134:MET:HG3	1.84	0.58
14:g:12:ASN:ND2	14:g:131:PRO:HD3	2.18	0.58
14:g:48:PHE:O	14:g:217:SER:N	2.27	0.58
3:h:38:ARG:HB2	3:h:189:GLY:C	2.28	0.58
3:3:154:TYR:HB3	3:h:184:TRP:CE2	2.38	0.58
7:7:110:ILE:HG21	7:7:131:GLU:HB3	1.85	0.58
1:8:64:ASP:OD1	1:8:66:GLY:N	2.36	0.58
2:9:44:VAL:O	2:9:177:THR:N	2.35	0.58
9:B:38:LYS:HB2	9:B:147:LEU:HB2	1.85	0.58
10:C:159:GLY:HA3	11:D:59:ILE:HG13	1.83	0.58
14:G:109:ILE:HG12	14:G:142:ASP:HB3	1.85	0.58
15:H:226:GLU:HA	15:H:267:THR:HG21	1.85	0.58
15:H:257:THR:HG21	15:H:273:ARG:NH1	2.18	0.58
15:H:331:ARG:HA	15:H:334:LEU:HD12	1.85	0.58
16:I:132:ILE:HG22	16:I:138:LYS:NZ	2.18	0.58
20:M:360:ILE:HG22	20:M:364:HIS:CE1	2.38	0.58
21:N:85:ALA:HB1	21:N:88:ARG:HB2	1.84	0.58
22:O:44:SER:O	22:O:47:LYS:N	2.36	0.58
23:P:67:ALA:HA	23:P:75:LEU:HD22	1.84	0.58
24:Q:285:LYS:HA	24:Q:288:LYS:HE2	1.85	0.58
25:R:28:GLU:O	25:R:32:LEU:N	2.25	0.58
25:R:171:MET:HE1	25:R:206:ARG:HB3	1.86	0.58
26:S:277:SER:HA	26:S:292:TYR:HD2	1.68	0.58
26:S:411:LEU:HA	26:S:414:ASP:HB2	1.84	0.58
26:S:457:PRO:HG2	26:S:458:GLN:HG3	1.85	0.58
27:T:198:ASP:HA	27:T:235:PHE:HB2	1.85	0.58
27:T:255:GLN:CD	27:T:255:GLN:H	2.11	0.58
28:U:28:LYS:NZ	28:U:31:LYS:NZ	2.50	0.58
28:U:69:ASP:OD1	28:U:70:HIS:N	2.36	0.58
28:U:206:ASP:HA	28:U:209:GLU:CD	2.28	0.58
29:V:124:ASN:HA	29:V:127:LYS:HB3	1.84	0.58
29:V:257:GLU:OE2	29:V:287:THR:HG22	2.02	0.58
33:Z:396:ASN:ND2	33:Z:399:LEU:HD12	2.15	0.58
33:Z:517:ASP:HB3	33:Z:521:GLU:H	1.67	0.58
33:Z:524:ALA:HB1	33:Z:565:PHE:CD2	2.39	0.58
33:Z:759:ARG:C	33:Z:789:GLN:HE22	2.11	0.58
10:c:102:TYR:O	10:c:104:GLU:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:77:LEU:HD12	13:f:129:GLY:HA3	1.83	0.58
13:f:106:GLU:OE2	13:f:110:HIS:CE1	2.57	0.58
3:h:11:LEU:N	3:h:113:THR:HG1	2.01	0.58
4:i:153:TYR:OH	4:i:168:GLU:OE2	2.14	0.58
1:1:163:SER:HA	7:l:100:TRP:CZ3	2.37	0.58
5:5:50:PHE:HE2	5:5:195:VAL:HG11	1.67	0.58
8:A:126:GLN:NE2	9:B:81:ASP:HA	2.19	0.58
8:A:185:HIS:O	8:A:188:LYS:HB3	2.02	0.58
9:B:8:SER:N	10:C:128:LEU:HD23	2.17	0.58
10:C:102:TYR:O	10:C:104:GLU:HG3	2.03	0.58
14:G:11:SER:CB	14:G:127:ASN:HB2	2.27	0.58
14:G:126:TYR:CB	14:G:129:VAL:HG13	2.27	0.58
15:H:105:ILE:HB	15:H:144:LYS:HA	1.86	0.58
15:H:393:SER:HB2	15:H:398:VAL:HG11	1.84	0.58
17:J:198:LEU:CD1	17:J:316:PHE:CE2	2.86	0.58
18:K:112:SER:HB3	18:K:116:MET:N	2.17	0.58
18:K:262:ARG:HH12	18:K:306:PHE:CB	2.16	0.58
19:L:137:ARG:HA	19:L:140:LEU:HD12	1.84	0.58
20:M:379:LEU:O	20:M:383:THR:N	2.33	0.58
21:N:360:GLN:CG	21:N:363:ALA:H	2.16	0.58
21:N:368:THR:HG21	21:N:400:ILE:O	2.03	0.58
22:O:173:SER:C	22:O:176:SER:HG	2.11	0.58
22:O:310:PHE:CE1	22:O:341:ILE:HG12	2.38	0.58
23:P:429:ILE:O	23:P:433:ILE:HG13	2.03	0.58
26:S:330:LEU:HA	26:S:333:PHE:HB2	1.85	0.58
28:U:165:GLU:HG2	28:U:169:ILE:HG13	1.85	0.58
30:W:12:ASN:HD21	30:W:81:ILE:HG22	1.68	0.58
33:Z:478:VAL:HB	33:Z:493:LEU:HD13	1.84	0.58
9:b:13:SER:O	9:b:16:GLY:N	2.29	0.58
12:e:19:GLY:HA3	13:f:28:ALA:HB2	1.85	0.58
13:f:43:HIS:HA	13:f:217:GLY:HA2	1.85	0.58
3:h:149:GLY:HA3	3:h:181:ALA:HB1	1.85	0.58
5:j:161:GLU:N	5:j:161:GLU:OE1	2.34	0.58
5:j:161:GLU:O	5:j:165:GLU:N	2.27	0.58
6:k:106:GLY:O	6:k:115:GLU:N	2.21	0.58
6:k:117:TYR:CD2	6:k:127:GLU:HB2	2.38	0.58
1:1:34:ILE:HG23	1:1:155:CYS:HB3	1.86	0.58
2:2:180:GLY:O	2:2:184:ALA:N	2.31	0.58
3:3:11:LEU:N	3:3:113:THR:HG1	2.01	0.58
3:3:61:TRP:CD1	3:3:197:LEU:HD21	2.39	0.58
4:4:113:LYS:HG3	4:4:114:GLN:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:120:GLN:HB2	4:4:122:HIS:CD2	2.38	0.58
4:4:244:GLU:OE2	5:5:196:VAL:HG11	2.03	0.58
7:7:133:TRP:O	7:7:136:SER:HB2	2.02	0.58
7:7:239:ALA:O	7:7:243:ASP:N	2.35	0.58
2:9:89:ASP:CG	2:9:92:ASP:H	2.12	0.58
8:A:36:ASN:O	8:A:39:ASN:N	2.35	0.58
8:A:55:SER:O	8:A:224:GLU:N	2.36	0.58
9:B:13:SER:N	9:B:17:LYS:O	2.28	0.58
9:B:150:VAL:HG22	9:B:156:TYR:CB	2.33	0.58
11:D:80:ALA:HA	11:D:83:ARG:CZ	2.33	0.58
12:E:147:HIS:CD2	12:E:224:LYS:HB2	2.38	0.58
14:G:221:LEU:HA	14:G:226:GLY:N	2.18	0.58
16:I:108:THR:HB	16:I:121:THR:HB	1.84	0.58
18:K:120:VAL:C	18:K:121:ARG:HH11	2.09	0.58
18:K:281:ARG:HH11	18:K:290:ARG:HG2	1.68	0.58
19:L:407:ARG:HE	19:L:411:ASN:HD22	1.50	0.58
20:M:233:ARG:HA	20:M:236:ALA:HB3	1.86	0.58
21:N:501:MET:HB2	21:N:521:LEU:HD21	1.83	0.58
21:N:665:ILE:HG22	21:N:666:GLN:HG2	1.85	0.58
21:N:745:LEU:O	21:N:747:HIS:N	2.36	0.58
22:O:5:HIS:O	22:O:9:THR:N	2.36	0.58
22:O:306:ARG:HD2	22:O:350:ILE:C	2.28	0.58
23:P:273:TYR:HE2	23:P:275:ASN:OD1	1.86	0.58
23:P:422:LEU:CA	23:P:426:ILE:HG13	2.33	0.58
24:Q:130:ARG:NH1	24:Q:132:PHE:O	2.30	0.58
25:R:27:SER:O	25:R:30:ALA:HB3	2.04	0.58
25:R:382:ASP:HB2	26:S:399:TYR:CD1	2.38	0.58
25:R:398:ALA:HB1	25:R:402:LEU:CG	2.32	0.58
26:S:181:ALA:HA	26:S:184:TRP:CG	2.38	0.58
26:S:246:GLU:OE2	27:T:124:SER:HB2	2.02	0.58
28:U:297:GLN:O	28:U:301:ILE:CG1	2.52	0.58
29:V:71:MET:HE3	29:V:72:PRO:HD2	1.84	0.58
30:W:143:ASN:ND2	30:W:173:THR:HG23	2.18	0.58
33:Z:481:PRO:HB3	33:Z:512:ILE:HG12	1.86	0.58
9:b:157:PHE:HE1	9:b:159:TRP:NE1	2.01	0.58
10:c:72:LYS:HD3	10:c:140:TYR:HD2	1.68	0.58
11:d:80:ALA:HA	11:d:83:ARG:CZ	2.33	0.58
13:f:114:ASP:HA	13:f:117:GLN:HB3	1.85	0.58
3:h:145:ILE:HD11	3:h:154:TYR:CD1	2.39	0.58
4:i:66:ILE:HD11	4:i:72:CYS:HB2	1.86	0.58
4:i:88:ILE:HG13	4:i:112:LEU:HD23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:191:ASP:OD2	7:l:195:THR:HB	2.04	0.58
4:4:42:VAL:HG23	4:4:206:VAL:HG22	1.84	0.58
4:4:153:TYR:OH	4:4:168:GLU:OE2	2.14	0.58
8:A:91:ARG:HH12	14:G:157:TYR:N	1.82	0.58
10:C:141:ASP:OD2	10:C:147:GLN:NE2	2.37	0.58
12:E:71:ASP:OD2	12:E:73:HIS:ND1	2.36	0.58
14:G:70:VAL:HG13	14:G:93:ARG:HA	1.85	0.58
15:H:216:ASP:C	15:H:220:LYS:NZ	2.61	0.58
16:I:248:VAL:HB	16:I:251:GLU:HG3	1.85	0.58
16:I:422:ARG:O	17:J:306:ARG:HG2	2.02	0.58
17:J:40:ASN:O	17:J:44:LEU:HG	2.03	0.58
17:J:114:CYS:N	17:J:124:LYS:O	2.36	0.58
17:J:191:PRO:HA	17:J:195:LYS:HE3	1.84	0.58
17:J:273:LEU:HD22	17:J:309:ARG:HH11	1.68	0.58
18:K:299:LEU:O	18:K:303:MET:N	2.22	0.58
18:K:343:LEU:HD22	18:K:344:ARG:CA	2.32	0.58
19:L:125:PRO:HG2	19:L:127:TYR:OH	2.04	0.58
20:M:335:PRO:O	20:M:339:ARG:HB2	2.03	0.58
21:N:223:LEU:HD22	21:N:897:LYS:HE2	1.86	0.58
21:N:413:ALA:HA	21:N:453:ALA:HA	1.84	0.58
21:N:711:ARG:HD3	21:N:785:PRO:HG2	1.85	0.58
22:O:247:ASN:ND2	22:O:273:GLN:OE1	2.31	0.58
22:O:287:LEU:O	22:O:291:ILE:N	2.27	0.58
23:P:63:VAL:O	23:P:66:LEU:HB2	2.02	0.58
23:P:79:LEU:HD23	23:P:82:LEU:HD12	1.85	0.58
23:P:362:LEU:O	23:P:365:LEU:HB2	2.03	0.58
24:Q:126:LYS:HG2	24:Q:134:LYS:HZ2	1.67	0.58
25:R:37:LYS:HG3	25:R:38:VAL:H	1.68	0.58
25:R:225:LYS:CD	25:R:260:THR:HB	2.33	0.58
25:R:412:THR:O	25:R:416:LYS:N	2.25	0.58
26:S:288:THR:HG22	26:S:292:TYR:CZ	2.38	0.58
27:T:189:ILE:O	27:T:193:THR:N	2.30	0.58
27:T:261:GLU:HG2	29:V:292:ILE:CG2	2.34	0.58
28:U:37:ILE:HG13	28:U:90:ILE:HG13	1.85	0.58
29:V:108:TYR:CA	29:V:139:VAL:HB	2.34	0.58
29:V:254:ARG:NH1	29:V:291:ASN:CG	2.61	0.58
33:Z:478:VAL:HG11	33:Z:493:LEU:HD22	1.85	0.58
9:b:77:GLY:HA3	9:b:132:VAL:HG12	1.84	0.58
9:b:205:ASN:HA	9:b:247:LEU:CD1	2.34	0.58
11:d:64:VAL:HG11	11:d:213:THR:HG21	1.85	0.58
11:d:70:HIS:HA	11:d:219:SER:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:162:GLN:HE22	11:d:172:ARG:NE	2.01	0.58
4:i:195:ASP:OD2	4:i:198:SER:OG	2.19	0.58
5:j:27:LEU:HD21	5:j:186:VAL:HG12	1.85	0.58
1:1:132:GLY:O	1:1:140:ALA:N	2.35	0.58
2:2:77:PRO:HA	2:2:83:VAL:HA	1.85	0.58
5:5:193:ASP:OD1	5:5:194:GLU:N	2.36	0.58
7:7:256:THR:C	7:7:259:GLY:H	2.11	0.58
1:8:112:ILE:HA	1:8:115:LEU:HD12	1.84	0.58
13:F:40:SER:HG	13:F:43:HIS:H	1.49	0.58
13:F:114:ASP:HA	13:F:117:GLN:HB3	1.85	0.58
13:F:137:TYR:HA	13:F:142:ALA:HA	1.85	0.58
13:F:227:GLY:O	13:F:231:ALA:N	2.37	0.58
16:I:366:THR:HA	16:I:396:CYS:SG	2.43	0.58
16:I:398:GLU:HB3	16:I:419:ALA:HB1	1.85	0.58
16:I:402:LEU:HD22	16:I:405:ARG:HE	1.68	0.58
20:M:415:PHE:O	20:M:419:ILE:N	2.36	0.58
22:O:25:LEU:HB3	22:O:29:PHE:CZ	2.38	0.58
23:P:98:GLN:OE1	23:P:135:GLU:HB3	2.03	0.58
23:P:261:LEU:HA	23:P:264:ILE:HB	1.85	0.58
24:Q:148:LYS:HG2	24:Q:150:GLN:HG2	1.86	0.58
24:Q:234:THR:HB	24:Q:238:TYR:CE2	2.37	0.58
25:R:43:ARG:NH2	25:R:70:TYR:OH	2.37	0.58
25:R:207:ARG:O	25:R:211:LYS:N	2.26	0.58
25:R:333:MET:HA	25:R:336:LYS:HB3	1.86	0.58
26:S:337:ASN:H	26:S:339:GLN:NE2	2.01	0.58
33:Z:815:MET:HG2	33:Z:830:LEU:CD1	2.29	0.58
13:f:88:LEU:O	13:f:91:GLN:N	2.34	0.58
3:h:22:ILE:HB	3:h:63:CYS:HB3	1.85	0.58
4:i:34:GLY:HA2	4:i:43:ILE:HA	1.84	0.58
5:j:14:ALA:O	5:j:137:ILE:N	2.31	0.58
1:1:76:PHE:HE1	2:2:166:LEU:HD13	1.68	0.58
1:1:110:ARG:O	1:1:114:HIS:ND1	2.37	0.58
1:1:212:GLU:HB3	4:4:58:LYS:HZ3	1.68	0.58
3:3:145:ILE:HD11	3:3:154:TYR:CD1	2.39	0.58
1:8:32:LEU:N	1:8:43:ALA:O	2.18	0.58
2:9:126:PHE:CZ	2:9:161:ARG:HG2	2.39	0.58
8:A:73:PHE:O	8:A:81:MET:N	2.27	0.58
8:A:238:ALA:O	8:A:242:GLU:N	2.33	0.58
10:C:15:PRO:HA	11:D:22:TYR:CG	2.38	0.58
11:D:24:LEU:CB	11:D:28:LYS:NZ	2.66	0.58
12:E:51:GLU:HG2	12:E:53:ARG:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:101:ARG:HB2	15:H:173:ARG:CZ	2.33	0.58
16:I:289:THR:HA	16:I:333:THR:HB	1.86	0.58
17:J:46:ALA:HA	17:J:49:ASN:HD22	1.68	0.58
17:J:163:VAL:HB	17:J:314:ILE:HD12	1.86	0.58
17:J:195:LYS:HG3	17:J:253:ILE:O	2.04	0.58
20:M:118:VAL:HG22	20:M:128:PHE:HA	1.86	0.58
20:M:132:VAL:HG21	20:M:155:ILE:O	2.03	0.58
22:O:245:ASP:O	22:O:248:TYR:HB2	2.04	0.58
23:P:392:LYS:HA	24:Q:354:PHE:CD2	2.39	0.58
26:S:179:ILE:HG13	26:S:184:TRP:CZ2	2.39	0.58
28:U:50:ASN:OD1	28:U:51:SER:N	2.31	0.58
28:U:195:LYS:HZ3	29:V:233:LYS:CE	2.16	0.58
29:V:255:ILE:O	29:V:258:GLU:HG3	2.04	0.58
30:W:153:LEU:O	30:W:157:PHE:N	2.28	0.58
31:X:38:ASN:N	31:X:45:PHE:O	2.37	0.58
33:Z:176:GLU:HG2	33:Z:178:SER:H	1.68	0.58
33:Z:345:GLU:O	33:Z:349:THR:N	2.36	0.58
8:a:44:ALA:N	8:a:169:THR:O	2.19	0.58
9:b:150:VAL:HG22	9:b:156:TYR:CB	2.33	0.58
11:d:119:ARG:CZ	11:d:119:ARG:HB2	2.33	0.58
11:d:238:GLN:O	11:d:242:GLU:HG3	2.04	0.58
14:g:70:VAL:HG13	14:g:93:ARG:HA	1.85	0.58
14:g:178:LYS:O	14:g:182:HIS:N	2.28	0.58
3:h:72:GLN:HB3	4:i:113:LYS:NZ	2.19	0.58
7:l:256:THR:C	7:l:259:GLY:H	2.11	0.58
1:1:132:GLY:HA2	1:1:226:VAL:HG21	1.86	0.58
3:3:108:ASN:O	3:3:111:ASN:N	2.34	0.58
3:3:149:GLY:HA2	3:3:152:PHE:CE2	2.39	0.58
5:5:56:LEU:O	5:5:59:ASP:HB2	2.03	0.58
5:5:69:TYR:O	10:C:96:GLN:NE2	2.35	0.58
6:6:129:PRO:HB3	6:6:148:TYR:CZ	2.39	0.58
7:7:94:ARG:CZ	7:7:247:GLY:HA3	2.34	0.58
7:7:242:ARG:NH2	6:k:145:ASP:OD1	2.34	0.58
2:9:220:ARG:HH12	3:h:47:ASN:HA	1.66	0.58
8:A:91:ARG:NH1	14:G:157:TYR:CD1	2.72	0.58
8:A:133:TYR:CZ	8:A:134:MET:HG2	2.38	0.58
9:B:45:ILE:HD12	9:B:74:VAL:HB	1.85	0.58
9:B:157:PHE:HE1	9:B:159:TRP:NE1	2.01	0.58
11:D:137:GLY:O	11:D:146:LYS:HB2	2.04	0.58
14:G:126:TYR:H	14:G:129:VAL:HG21	1.69	0.58
15:H:304:CYS:O	15:H:350:LYS:N	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:304:ARG:HH12	16:I:308:GLU:HB2	1.68	0.58
16:I:423:VAL:HG22	17:J:306:ARG:HB3	1.84	0.58
18:K:98:GLN:O	18:K:111:SER:N	2.37	0.58
20:M:77:TYR:HE2	20:M:156:LEU:HD12	1.68	0.58
20:M:338:LEU:HD21	20:M:346:LYS:HB2	1.84	0.58
20:M:358:ALA:HB1	20:M:376:TRP:HB3	1.84	0.58
21:N:599:TYR:HD1	21:N:632:LYS:HZ3	1.50	0.58
22:O:138:LEU:HB2	22:O:177:GLN:OE1	2.03	0.58
22:O:279:ILE:O	22:O:282:GLN:HB2	2.03	0.58
22:O:373:TRP:O	22:O:377:VAL:N	2.33	0.58
23:P:12:ILE:C	23:P:61:LYS:HZ3	2.11	0.58
23:P:374:SER:HA	23:P:377:GLU:HB2	1.85	0.58
23:P:383:LEU:HD22	23:P:388:ILE:HB	1.86	0.58
23:P:392:LYS:O	23:P:400:VAL:HA	2.04	0.58
24:Q:309:ARG:NH2	24:Q:346:ASN:OD1	2.36	0.58
25:R:274:PRO:HA	25:R:277:LEU:HB2	1.86	0.58
26:S:179:ILE:HG13	26:S:184:TRP:CE2	2.39	0.58
26:S:268:LEU:HA	26:S:271:ARG:HB2	1.86	0.58
26:S:393:ARG:HA	26:S:397:LEU:HG	1.86	0.58
29:V:117:TRP:HZ3	29:V:120:SER:H	1.52	0.58
33:Z:439:TYR:O	33:Z:447:VAL:HG12	2.04	0.58
33:Z:546:ILE:HG23	33:Z:566:LEU:HD22	1.85	0.58
33:Z:954:PRO:HD3	33:Z:962:ARG:HG2	1.84	0.58
8:a:124:LEU:O	8:a:127:ILE:HB	2.03	0.58
11:d:11:PHE:CE2	12:e:136:ARG:HD2	2.38	0.58
13:f:39:ARG:N	13:f:157:TYR:O	2.29	0.58
13:f:172:LEU:HD21	13:f:196:ALA:HB2	1.86	0.58
13:f:187:ASP:CG	13:f:233:TYR:HH	2.11	0.58
14:g:78:TYR:HE2	14:g:82:ILE:HA	1.69	0.58
3:h:61:TRP:CD1	3:h:197:LEU:HD21	2.39	0.58
6:k:48:GLY:HA3	6:k:100:VAL:HA	1.86	0.58
1:1:171:ASN:O	1:1:175:PHE:HA	2.04	0.58
1:1:179:TYR:HA	1:1:188:LYS:HA	1.86	0.58
4:4:178:GLU:N	4:4:178:GLU:OE1	2.34	0.58
5:5:27:LEU:HG	5:5:185:ALA:HA	1.86	0.58
5:5:124:PHE:CD1	5:5:130:ILE:HA	2.38	0.58
2:9:179:PHE:HE1	3:h:44:TYR:HA	1.67	0.58
10:C:78:ALA:O	10:C:134:SER:N	2.27	0.58
15:H:201:GLU:O	15:H:271:PHE:HB3	2.04	0.58
15:H:428:MET:HB3	15:H:432:ARG:NH1	2.18	0.58
16:I:264:CYS:HA	16:I:267:ILE:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:49:PHE:HB2	21:N:152:LEU:HA	1.86	0.58
19:L:219:LEU:HB3	19:L:346:LYS:HA	1.85	0.58
19:L:420:ARG:O	19:L:424:GLU:N	2.37	0.58
20:M:77:TYR:CE2	20:M:156:LEU:HD12	2.39	0.58
20:M:391:LEU:O	20:M:395:THR:N	2.35	0.58
21:N:470:LEU:HD22	21:N:485:MET:HE1	1.86	0.58
21:N:650:ASP:HA	21:N:653:ARG:HH11	1.69	0.58
22:O:230:PHE:CE1	22:O:291:ILE:HA	2.38	0.58
23:P:123:ARG:HB3	23:P:127:GLU:C	2.29	0.58
23:P:290:LEU:HD12	23:P:291:LYS:HG2	1.86	0.58
23:P:360:ILE:O	23:P:400:VAL:N	2.33	0.58
25:R:120:LEU:HD13	25:R:130:GLN:HA	1.86	0.58
25:R:251:THR:O	25:R:254:SER:OG	2.15	0.58
25:R:267:LYS:CA	25:R:271:ILE:HB	2.33	0.58
26:S:179:ILE:HD11	26:S:181:ALA:HB2	1.84	0.58
26:S:293:ILE:HG21	26:S:317:HIS:HB2	1.85	0.58
26:S:435:LYS:N	26:S:444:GLU:O	2.24	0.58
32:Y:83:ARG:HG3	32:Y:86:ARG:NH2	2.18	0.58
33:Z:833:GLN:O	33:Z:837:TYR:N	2.34	0.58
9:b:92:VAL:O	9:b:96:SER:N	2.32	0.58
11:d:26:ALA:HA	11:d:29:ARG:HB3	1.86	0.58
12:e:70:ILE:H	12:e:75:GLY:HA2	1.69	0.58
13:f:230:VAL:O	13:f:234:ILE:HG13	2.04	0.58
3:h:41:THR:HG23	3:h:46:ALA:HB2	1.86	0.58
4:i:49:SER:O	4:i:56:ALA:N	2.36	0.58
6:k:139:TYR:CD2	6:k:168:LEU:HD23	2.37	0.58
7:l:207:GLY:HA3	7:l:239:ALA:HB1	1.85	0.58
1:1:156:ARG:NH2	7:l:103:SER:HB2	2.17	0.58
2:2:77:PRO:HB3	2:2:239:LEU:HD11	1.85	0.58
2:2:235:LYS:HG3	2:2:236:ASN:OD1	2.03	0.58
3:3:41:THR:HG23	3:3:46:ALA:HB2	1.86	0.58
3:3:129:VAL:O	3:3:140:LYS:HG3	2.04	0.58
3:3:179:SER:O	3:3:183:LYS:N	2.23	0.58
5:5:46:TYR:N	5:5:49:VAL:O	2.25	0.58
6:6:48:GLY:HA3	6:6:100:VAL:HA	1.86	0.58
6:6:96:ARG:HH12	7:7:166:LYS:HD3	1.69	0.58
7:7:123:GLY:N	7:7:171:SER:O	2.26	0.58
1:8:29:GLY:O	1:8:74:ASN:CG	2.45	0.58
1:8:132:GLY:HA2	1:8:226:VAL:HG21	1.86	0.58
2:9:77:PRO:HB3	2:9:239:LEU:HD11	1.85	0.58
8:A:75:ILE:HD11	8:A:81:MET:HE2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:214:LEU:O	8:A:216:THR:OG1	2.21	0.58
15:H:210:ASP:OD2	15:H:258:LEU:HD12	2.04	0.58
15:H:246:ILE:HA	15:H:373:ARG:O	2.04	0.58
16:I:247:ILE:HD11	16:I:281:ILE:HG12	1.86	0.58
16:I:418:GLN:O	16:I:422:ARG:N	2.35	0.58
17:J:257:ARG:NH1	17:J:296:ARG:HH11	2.00	0.58
18:K:234:PHE:HB2	18:K:268:ILE:HD12	1.86	0.58
18:K:281:ARG:NH1	18:K:290:ARG:NE	2.51	0.58
19:L:263:ILE:HA	19:L:266:MET:HE3	1.86	0.58
21:N:37:SER:OG	26:S:249:SER:HB2	2.04	0.58
21:N:109:TYR:HA	21:N:133:LEU:HD21	1.86	0.58
21:N:245:LEU:HD11	21:N:254:SER:HB3	1.85	0.58
21:N:568:VAL:O	21:N:572:LEU:HG	2.04	0.58
21:N:650:ASP:OD2	21:N:692:GLU:HG2	2.03	0.58
21:N:657:MET:HE1	21:N:695:ALA:HB1	1.85	0.58
25:R:201:GLY:O	25:R:206:ARG:N	2.37	0.58
25:R:280:ILE:C	25:R:282:THR:H	2.12	0.58
25:R:335:ARG:NH1	25:R:377:LEU:N	2.52	0.58
26:S:385:SER:HB2	27:T:154:GLU:OE1	2.04	0.58
28:U:140:ILE:CB	28:U:153:THR:CA	2.82	0.58
29:V:84:ASP:OD2	29:V:86:VAL:HB	2.04	0.58
29:V:252:SER:HA	29:V:255:ILE:HB	1.85	0.58
29:V:277:LYS:HA	29:V:280:LEU:CD1	2.33	0.58
30:W:15:TYR:C	30:W:25:ARG:HD3	2.29	0.58
30:W:23:ARG:HE	30:W:27:GLU:HG3	1.67	0.58
31:X:30:GLN:HG2	31:X:100:TRP:HZ3	1.67	0.58
33:Z:306:MET:HA	33:Z:973:TYR:CD2	2.39	0.58
33:Z:815:MET:HB2	33:Z:834:LEU:HD21	1.86	0.58
9:b:138:GLY:O	9:b:146:SER:N	2.37	0.58
9:b:175:LEU:O	9:b:179:TRP:N	2.32	0.58
13:f:70:MET:HE2	13:f:105:VAL:HA	1.86	0.58
14:g:221:LEU:HA	14:g:226:GLY:N	2.18	0.58
3:h:59:LYS:HB3	3:h:121:TYR:O	2.04	0.58
6:k:129:PRO:HB3	6:k:148:TYR:CZ	2.39	0.58
1:1:96:PHE:HB3	13:f:89:ARG:HH12	1.68	0.57
2:2:103:LEU:O	2:2:107:ASN:N	2.20	0.57
4:4:99:THR:HB	4:4:101:ARG:HD2	1.85	0.57
4:4:177:LYS:NZ	4:4:211:LYS:NZ	2.52	0.57
6:6:106:GLY:O	6:6:115:GLU:N	2.21	0.57
11:D:13:PRO:HA	12:E:26:TYR:CD1	2.39	0.57
13:F:172:LEU:HD21	13:F:196:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:123:HIS:ND1	14:G:132:PHE:HE1	2.02	0.57
15:H:106:ILE:HD11	20:M:150:LYS:HB2	1.85	0.57
15:H:281:GLN:HB2	15:H:286:GLU:HG2	1.85	0.57
15:H:318:ARG:HE	15:H:326:ASP:CG	2.12	0.57
15:H:385:ARG:NH1	15:H:413:ASN:HA	2.20	0.57
18:K:260:LEU:O	18:K:264:ASN:N	2.36	0.57
18:K:356:ILE:HG21	18:K:388:GLN:HG3	1.86	0.57
19:L:66:GLU:HB3	19:L:70:TYR:CZ	2.39	0.57
19:L:91:THR:HG21	20:M:33:ARG:HG2	1.85	0.57
20:M:277:ILE:HG12	20:M:322:LYS:HB2	1.86	0.57
21:N:163:LEU:HD13	21:N:209:LYS:NZ	2.19	0.57
22:O:4:ASN:HA	22:O:42:SER:HB2	1.86	0.57
22:O:70:TYR:OH	22:O:107:GLN:HG2	2.04	0.57
22:O:91:ASP:CG	22:O:93:ASP:HB2	2.29	0.57
22:O:242:ILE:O	22:O:244:ASN:HB2	2.04	0.57
23:P:259:PRO:HA	23:P:262:SER:HB2	1.87	0.57
24:Q:63:GLN:O	24:Q:67:THR:N	2.31	0.57
24:Q:243:PHE:HZ	24:Q:289:GLU:HG3	1.69	0.57
25:R:33:LEU:HB2	25:R:46:ALA:HB3	1.85	0.57
26:S:185:PHE:O	26:S:188:TYR:N	2.36	0.57
26:S:427:ILE:HG22	27:T:195:LEU:HB3	1.86	0.57
27:T:28:PRO:O	27:T:31:LYS:HB3	2.04	0.57
27:T:129:LEU:HD11	27:T:135:ASN:HD22	1.69	0.57
28:U:20:ASP:HA	28:U:23:GLU:OE1	2.04	0.57
28:U:57:GLU:HB2	30:W:100:HIS:HE2	1.67	0.57
29:V:163:ALA:HB3	29:V:165:ILE:H	1.68	0.57
29:V:202:ASP:OD1	29:V:203:TYR:N	2.36	0.57
29:V:260:GLU:OE1	29:V:283:THR:HG21	2.04	0.57
30:W:67:ALA:HB3	30:W:68:GLU:HA	1.86	0.57
33:Z:361:HIS:CD2	33:Z:961:GLU:HG2	2.39	0.57
33:Z:452:LEU:HD22	33:Z:489:ALA:HB2	1.86	0.57
8:a:83:VAL:HG22	8:a:141:LEU:HD22	1.85	0.57
8:a:133:TYR:CZ	8:a:134:MET:HG2	2.38	0.57
13:f:67:ASP:OD2	13:f:69:HIS:CE1	2.57	0.57
14:g:126:TYR:H	14:g:129:VAL:CG2	2.16	0.57
14:g:170:GLN:HA	14:g:173:LYS:HD2	1.86	0.57
3:h:149:GLY:HA2	3:h:152:PHE:CE2	2.39	0.57
3:h:175:LYS:HD3	3:h:211:GLU:OE2	2.03	0.57
5:j:56:LEU:O	5:j:59:ASP:HB2	2.03	0.57
7:l:174:THR:N	7:l:190:VAL:O	2.34	0.57
1:1:119:LYS:HD3	1:1:124:TYR:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:127:GLU:HG2	13:f:100:ASN:CB	2.33	0.57
7:7:174:THR:N	7:7:190:VAL:O	2.34	0.57
7:7:191:ASP:OD2	7:7:195:THR:HB	2.04	0.57
1:8:145:ASP:HB3	1:8:149:SER:N	2.20	0.57
1:8:179:TYR:HA	1:8:188:LYS:HA	1.86	0.57
2:9:95:HIS:O	2:9:99:LEU:HG	2.04	0.57
9:B:178:ARG:HG2	9:B:191:ILE:HG23	1.87	0.57
9:B:189:ILE:HG21	9:B:246:ARG:HD3	1.87	0.57
10:C:72:LYS:HD3	10:C:140:TYR:HD2	1.68	0.57
10:C:134:SER:OG	10:C:153:PRO:HD3	2.04	0.57
10:C:214:ALA:HA	10:C:229:ILE:HA	1.86	0.57
11:D:119:ARG:CZ	11:D:119:ARG:HB2	2.33	0.57
14:G:78:TYR:HE2	14:G:82:ILE:HA	1.69	0.57
16:I:273:GLU:HG2	33:Z:791:LYS:HD2	1.86	0.57
20:M:4:LEU:HA	20:M:7:LEU:HB2	1.86	0.57
20:M:78:LEU:HD13	20:M:123:SER:HB3	1.86	0.57
20:M:352:PRO:HG3	20:M:360:ILE:HD11	1.85	0.57
21:N:489:MET:HE3	21:N:493:GLY:HA2	1.86	0.57
21:N:492:THR:HA	21:N:528:ARG:CD	2.30	0.57
21:N:650:ASP:O	21:N:654:GLN:N	2.29	0.57
22:O:23:HIS:HB3	22:O:26:PHE:HB2	1.86	0.57
22:O:110:ASP:HB3	22:O:128:LEU:HD23	1.84	0.57
22:O:384:MET:HG3	22:O:385:GLU:H	1.69	0.57
23:P:108:LYS:O	23:P:111:ASP:C	2.46	0.57
23:P:143:LEU:HG	23:P:147:LYS:HE3	1.86	0.57
23:P:270:LEU:HA	23:P:341:LEU:HD21	1.85	0.57
23:P:325:ASP:H	23:P:337:HIS:CE1	2.20	0.57
25:R:33:LEU:HD12	25:R:43:ARG:O	2.04	0.57
25:R:213:TYR:HH	25:R:238:PHE:HE2	1.52	0.57
26:S:393:ARG:HB2	26:S:432:ILE:HG22	1.85	0.57
28:U:32:ARG:N	28:U:58:GLU:OE1	2.37	0.57
28:U:104:LEU:HD13	28:U:152:LYS:HZ1	1.68	0.57
29:V:54:LEU:N	29:V:67:ASP:O	2.33	0.57
29:V:58:VAL:H	29:V:62:THR:HB	1.69	0.57
30:W:59:PRO:HB3	30:W:86:HIS:HB3	1.84	0.57
30:W:180:LEU:HB2	30:W:183:GLU:HB3	1.85	0.57
33:Z:308:LYS:HE3	33:Z:345:GLU:OE2	2.02	0.57
33:Z:430:LEU:HA	33:Z:466:GLU:HB2	1.86	0.57
33:Z:882:LEU:HD12	33:Z:885:ALA:HB3	1.84	0.57
8:a:55:SER:O	8:a:224:GLU:N	2.36	0.57
9:b:38:LYS:HB2	9:b:147:LEU:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:160:LYS:NZ	10:c:55:THR:O	2.26	0.57
12:e:144:ILE:N	12:e:156:PHE:O	2.25	0.57
13:f:3:ARG:O	13:f:6:TYR:N	2.37	0.57
13:f:227:GLY:O	13:f:231:ALA:N	2.37	0.57
7:l:162:VAL:O	7:l:166:LYS:N	2.37	0.57
7:l:225:VAL:O	7:l:229:LEU:N	2.25	0.57
7:l:226:GLU:HA	7:l:229:LEU:HB2	1.87	0.57
7:l:239:ALA:O	7:l:243:ASP:N	2.35	0.57
2:2:109:TYR:OH	14:g:71:ASP:N	2.34	0.57
3:3:122:ASP:OD2	3:3:124:LYS:HB3	2.04	0.57
6:6:13:VAL:O	6:6:184:VAL:N	2.32	0.57
1:8:46:THR:HG21	1:8:58:TYR:CD1	2.40	0.57
1:8:119:LYS:HD3	1:8:124:TYR:CE2	2.39	0.57
8:A:83:VAL:HG22	8:A:141:LEU:HD22	1.85	0.57
10:C:135:PHE:HB2	10:C:137:TYR:CE1	2.39	0.57
11:D:32:CYS:HB2	11:D:166:ARG:O	2.04	0.57
13:F:7:ASP:HA	13:F:20:PHE:CD1	2.39	0.57
13:F:106:GLU:OE2	13:F:110:HIS:CE1	2.56	0.57
15:H:208:TYR:CD1	15:H:211:VAL:HB	2.40	0.57
15:H:382:LEU:O	15:H:408:SER:OG	2.17	0.57
16:I:94:LYS:O	16:I:98:GLU:HG3	2.04	0.57
16:I:148:LEU:O	16:I:157:VAL:N	2.25	0.57
16:I:222:TYR:HD2	16:I:349:LEU:HB2	1.68	0.57
18:K:167:PRO:HB2	18:K:228:ASN:HB2	1.86	0.57
19:L:108:VAL:HB	19:L:141:LYS:O	2.05	0.57
19:L:310:THR:O	19:L:314:GLY:HA3	2.04	0.57
21:N:256:GLN:O	21:N:260:ASP:N	2.22	0.57
21:N:302:PHE:HA	21:N:306:ASN:HD22	1.69	0.57
21:N:316:LYS:O	21:N:320:SER:OG	2.12	0.57
22:O:51:ASP:O	22:O:85:SER:OG	2.20	0.57
23:P:200:SER:O	23:P:203:ILE:HG22	2.04	0.57
23:P:359:ARG:HG2	23:P:401:ASN:HA	1.86	0.57
24:Q:275:ILE:C	24:Q:279:LYS:NZ	2.62	0.57
24:Q:343:LEU:O	24:Q:347:LEU:HG	2.04	0.57
24:Q:418:GLN:C	24:Q:421:LYS:HZ3	2.12	0.57
25:R:29:LYS:O	25:R:46:ALA:HB1	2.05	0.57
25:R:53:LYS:HA	25:R:56:GLU:HB3	1.87	0.57
25:R:138:GLY:HA2	25:R:150:ALA:HA	1.87	0.57
25:R:179:PHE:HA	25:R:182:ASN:HA	1.86	0.57
28:U:27:THR:HG23	28:U:31:LYS:HB2	1.86	0.57
29:V:80:VAL:HG23	29:V:129:PHE:CZ	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:95:LEU:O	29:V:99:GLY:N	2.37	0.57
29:V:288:LEU:O	29:V:292:ILE:HG13	2.04	0.57
30:W:112:ALA:O	30:W:142:ILE:N	2.27	0.57
33:Z:736:LEU:HD12	33:Z:739:ALA:HB3	1.86	0.57
3:h:179:SER:O	3:h:183:LYS:N	2.23	0.57
5:j:18:LYS:HG2	5:j:159:GLU:OE2	2.03	0.57
6:k:38:LEU:HD11	6:k:44:MET:HB2	1.87	0.57
3:3:38:ARG:HB2	3:3:189:GLY:C	2.28	0.57
3:3:137:SER:HA	2:9:94:GLN:OE1	2.04	0.57
9:B:49:LYS:N	9:B:208:THR:O	2.31	0.57
13:F:3:ARG:O	13:F:6:TYR:N	2.37	0.57
14:G:38:ILE:HD11	14:G:196:ALA:HB1	1.86	0.57
14:G:52:LYS:N	14:G:213:GLU:O	2.25	0.57
15:H:395:SER:C	16:I:319:ARG:HH22	2.11	0.57
16:I:201:PRO:HB2	16:I:320:GLY:CA	2.34	0.57
19:L:193:LEU:HA	19:L:196:VAL:HG12	1.86	0.57
20:M:221:TYR:N	20:M:347:ILE:O	2.38	0.57
21:N:207:LEU:HB3	21:N:228:VAL:HG13	1.85	0.57
21:N:565:ASN:O	21:N:569:LYS:N	2.18	0.57
21:N:670:LYS:HA	21:N:673:PRO:HG3	1.85	0.57
21:N:763:GLY:HA3	21:N:906:ARG:HG3	1.87	0.57
24:Q:158:ILE:HA	24:Q:161:LEU:HD12	1.85	0.57
24:Q:294:ARG:HB3	24:Q:321:TYR:HD1	1.69	0.57
25:R:40:ILE:O	25:R:43:ARG:HB3	2.05	0.57
26:S:430:GLY:C	26:S:432:ILE:N	2.61	0.57
27:T:106:ILE:HD12	27:T:109:TYR:HD2	1.69	0.57
27:T:119:THR:O	27:T:122:PHE:HB3	2.05	0.57
27:T:177:PHE:HA	27:T:180:ILE:HD12	1.86	0.57
33:Z:408:TYR:CE1	33:Z:442:VAL:HG21	2.39	0.57
33:Z:449:ALA:HB1	33:Z:488:ALA:HB3	1.87	0.57
12:e:147:HIS:CD2	12:e:224:LYS:HB2	2.38	0.57
14:g:211:ASP:OD1	14:g:212:PHE:N	2.37	0.57
3:h:36:ASP:HB2	3:h:189:GLY:O	2.04	0.57
5:j:193:ASP:OD1	5:j:194:GLU:N	2.36	0.57
1:1:73:ALA:HA	1:1:128:THR:HA	1.87	0.57
2:2:58:ASP:HA	2:2:228:PHE:CB	2.35	0.57
3:3:38:ARG:N	3:3:52:LYS:NZ	2.42	0.57
4:4:68:PRO:C	4:4:71:TRP:HE1	2.12	0.57
5:5:161:GLU:HA	5:5:164:PHE:CB	2.29	0.57
5:5:189:ILE:HG13	5:5:198:ARG:HH12	1.70	0.57
6:6:69:ILE:HD13	11:D:68:ASP:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:143:LEU:HD21	7:l:213:GLY:O	2.04	0.57
6:6:173:PRO:O	6:k:175:ASP:N	2.36	0.57
7:7:204:VAL:HA	7:7:208:GLN:OE1	2.05	0.57
1:8:34:ILE:HG23	1:8:155:CYS:HB3	1.86	0.57
2:9:151:GLY:N	2:9:159:PHE:O	2.35	0.57
9:B:205:ASN:HA	9:B:247:LEU:CD1	2.34	0.57
11:D:26:ALA:HA	11:D:29:ARG:HB3	1.86	0.57
11:D:64:VAL:HG11	11:D:213:THR:HG21	1.85	0.57
12:E:244:LYS:HZ3	12:E:244:LYS:HB2	1.70	0.57
13:F:73:SER:OG	13:F:133:LEU:HB2	2.04	0.57
13:F:117:GLN:HB2	14:G:83:PRO:HB3	1.85	0.57
17:J:132:PRO:HA	17:J:236:MET:HE1	1.87	0.57
17:J:153:LEU:O	17:J:316:PHE:HE1	1.87	0.57
18:K:349:ARG:HH22	18:K:378:LEU:CB	2.17	0.57
19:L:182:GLY:HA2	19:L:363:ILE:HG21	1.87	0.57
19:L:225:GLY:H	19:L:229:THR:H	1.52	0.57
19:L:276:CYS:O	19:L:322:LYS:N	2.37	0.57
21:N:19:SER:O	21:N:22:THR:HB	2.05	0.57
21:N:526:TYR:HD1	21:N:557:LEU:HB3	1.69	0.57
21:N:529:GLN:CA	21:N:558:ALA:HB1	2.34	0.57
21:N:636:SER:O	21:N:640:VAL:HG23	2.03	0.57
21:N:761:ILE:HG21	21:N:904:VAL:HG22	1.86	0.57
22:O:2:PHE:O	22:O:5:HIS:N	2.37	0.57
22:O:12:SER:HB3	22:O:21:SER:C	2.29	0.57
23:P:105:LYS:C	23:P:107:SER:H	2.11	0.57
23:P:144:VAL:HA	23:P:147:LYS:HD2	1.86	0.57
24:Q:165:PHE:HB3	24:Q:174:LEU:HB2	1.85	0.57
24:Q:302:VAL:O	24:Q:306:TYR:N	2.30	0.57
25:R:314:ASN:C	25:R:318:PRO:HG2	2.29	0.57
26:S:222:SER:H	26:S:226:ASP:HB2	1.70	0.57
26:S:235:ASN:HB3	26:S:275:TYR:HE2	1.69	0.57
26:S:484:ASP:O	26:S:487:THR:OG1	2.16	0.57
28:U:168:GLU:C	28:U:171:VAL:HB	2.29	0.57
29:V:243:SER:C	29:V:250:GLN:HE22	2.12	0.57
30:W:38:GLN:HG3	30:W:42:ASN:ND2	2.20	0.57
33:Z:145:ASP:OD2	33:Z:150:GLY:HA2	2.04	0.57
8:a:75:ILE:HD11	8:a:81:MET:HE2	1.85	0.57
9:b:13:SER:OG	9:b:17:LYS:N	2.37	0.57
10:c:16:GLU:HB3	11:d:29:ARG:HH22	1.70	0.57
11:d:134:LEU:HD23	11:d:149:GLN:HA	1.87	0.57
11:d:179:TYR:CE1	11:d:184:PRO:HA	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:119:TYR:O	14:g:123:HIS:ND1	2.37	0.57
3:h:121:TYR:HB2	3:h:197:LEU:HB3	1.85	0.57
4:i:177:LYS:NZ	4:i:211:LYS:NZ	2.52	0.57
5:j:66:MET:HG2	5:j:70:LYS:HE3	1.87	0.57
5:j:189:ILE:N	5:j:196:VAL:O	2.29	0.57
7:l:123:GLY:H	7:l:171:SER:C	2.12	0.57
1:1:119:LYS:HB3	1:1:123:PRO:HA	1.86	0.57
2:2:89:ASP:CG	2:2:92:ASP:H	2.12	0.57
3:3:22:ILE:HB	3:3:63:CYS:HB3	1.85	0.57
3:3:151:THR:O	3:h:152:PHE:HA	2.05	0.57
3:3:175:LYS:HD3	3:3:211:GLU:OE2	2.03	0.57
5:5:14:ALA:O	5:5:137:ILE:N	2.31	0.57
5:5:164:PHE:HB2	5:5:189:ILE:HD11	1.85	0.57
1:8:171:ASN:O	1:8:175:PHE:HA	2.04	0.57
9:B:158:PRO:HG3	10:C:61:THR:HB	1.86	0.57
11:D:238:GLN:O	11:D:242:GLU:HG3	2.04	0.57
13:F:50:LYS:HE3	13:F:209:ASP:O	2.05	0.57
14:G:119:TYR:O	14:G:123:HIS:ND1	2.37	0.57
14:G:170:GLN:HA	14:G:173:LYS:HD2	1.86	0.57
15:H:340:LEU:HB3	15:H:370:ARG:HH12	1.69	0.57
16:I:191:ILE:O	16:I:195:LYS:N	2.31	0.57
16:I:270:VAL:HG13	16:I:274:ASN:ND2	2.18	0.57
16:I:361:ILE:HG22	16:I:392:ILE:HG21	1.86	0.57
21:N:66:SER:HA	21:N:78:ALA:HA	1.86	0.57
21:N:226:ASN:ND2	21:N:264:SER:OG	2.38	0.57
21:N:399:PHE:CE1	21:N:438:ASP:HA	2.35	0.57
21:N:463:TYR:CD1	21:N:485:MET:HB3	2.39	0.57
21:N:612:SER:H	21:N:618:ARG:HE	1.52	0.57
22:O:279:ILE:HA	22:O:282:GLN:OE1	2.05	0.57
22:O:380:LEU:HD11	27:T:255:GLN:HA	1.86	0.57
22:O:383:LYS:HB3	22:O:387:ARG:CB	2.34	0.57
24:Q:31:LEU:HA	24:Q:42:ALA:HB1	1.86	0.57
24:Q:65:TYR:HA	24:Q:70:ALA:HB3	1.87	0.57
24:Q:115:ILE:HG23	24:Q:141:LEU:HD11	1.87	0.57
25:R:128:LEU:HD21	25:R:161:ALA:HA	1.86	0.57
25:R:188:LYS:HB2	25:R:217:HIS:CG	2.39	0.57
25:R:393:PRO:HB2	25:R:397:ASN:OD1	2.04	0.57
26:S:15:VAL:HA	26:S:18:LEU:HG	1.87	0.57
26:S:401:LYS:HE2	26:S:444:GLU:HG2	1.86	0.57
28:U:164:GLU:C	29:V:42:ARG:HH12	2.11	0.57
29:V:28:TYR:O	29:V:65:VAL:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:53:SER:OG	30:W:60:ARG:N	2.37	0.57
31:X:48:PHE:CD2	31:X:99:PHE:CZ	2.92	0.57
33:Z:161:ILE:O	33:Z:165:TYR:N	2.32	0.57
8:a:154:ILE:CD1	8:a:168:ALA:HA	2.34	0.57
9:b:189:ILE:HG21	9:b:246:ARG:HD3	1.86	0.57
10:c:13:PHE:CZ	11:d:127:ARG:HD2	2.40	0.57
10:c:134:SER:OG	10:c:153:PRO:HD3	2.04	0.57
11:d:71:VAL:HG11	11:d:109:LEU:HD13	1.85	0.57
11:d:137:GLY:O	11:d:146:LYS:HB2	2.04	0.57
12:e:51:GLU:HG2	12:e:53:ARG:HB2	1.86	0.57
14:g:179:LEU:HD11	14:g:195:GLN:HE21	1.70	0.57
4:i:113:LYS:HG3	4:i:114:GLN:H	1.68	0.57
4:i:127:LEU:O	4:i:142:ILE:N	2.36	0.57
6:k:21:VAL:HG12	6:k:28:LEU:HB2	1.86	0.57
7:l:94:ARG:CZ	7:l:247:GLY:HA3	2.34	0.57
1:1:29:GLY:O	1:1:74:ASN:ND2	2.29	0.57
1:1:46:THR:HG21	1:1:58:TYR:CD1	2.40	0.57
1:1:145:ASP:HB3	1:1:149:SER:N	2.20	0.57
2:2:113:LEU:HB2	2:2:118:GLU:HG2	1.87	0.57
3:3:69:ALA:HB1	4:4:145:HIS:O	2.05	0.57
4:4:49:SER:O	4:4:56:ALA:N	2.36	0.57
1:8:110:ARG:O	1:8:114:HIS:ND1	2.37	0.57
2:9:58:ASP:HA	2:9:228:PHE:CB	2.35	0.57
10:C:18:ARG:NH2	11:D:29:ARG:HE	2.02	0.57
12:E:128:SER:CB	13:F:119:ASN:HA	2.35	0.57
13:F:13:PHE:H	14:G:23:GLN:NE2	2.02	0.57
13:F:83:VAL:O	13:F:87:TYR:N	2.24	0.57
13:F:116:ALA:HA	13:F:119:ASN:HD22	1.70	0.57
15:H:57:LYS:NZ	16:I:135:PHE:HD1	2.02	0.57
17:J:44:LEU:HA	17:J:47:GLN:HB2	1.86	0.57
17:J:349:LYS:HB3	17:J:386:VAL:HG11	1.87	0.57
18:K:169:VAL:O	18:K:225:ALA:HA	2.05	0.57
18:K:262:ARG:NH1	18:K:306:PHE:HB3	2.17	0.57
19:L:221:TYR:CD1	19:L:330:PRO:HD3	2.40	0.57
19:L:302:GLN:O	19:L:306:MET:N	2.35	0.57
19:L:311:GLN:O	19:L:316:ASP:HB2	2.05	0.57
21:N:124:TYR:HE2	21:N:164:ASP:OD2	1.86	0.57
21:N:578:ASP:OD1	21:N:579:SER:N	2.37	0.57
22:O:11:LEU:O	22:O:16:MET:HE2	2.05	0.57
23:P:108:LYS:O	23:P:109:SER:C	2.47	0.57
23:P:179:PHE:O	23:P:183:GLN:N	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:360:ILE:HD11	23:P:364:ARG:HG3	1.85	0.57
23:P:374:SER:O	23:P:378:THR:N	2.23	0.57
25:R:80:GLU:HB3	25:R:94:PHE:HD2	1.70	0.57
25:R:186:TYR:CE2	25:R:187:VAL:HG23	2.39	0.57
25:R:225:LYS:HZ2	25:R:261:LEU:HD23	1.69	0.57
26:S:343:LEU:HA	26:S:346:TYR:HB3	1.86	0.57
28:U:30:ASN:CG	28:U:31:LYS:HZ3	2.13	0.57
30:W:186:ALA:O	30:W:192:LEU:HD12	2.04	0.57
33:Z:309:GLN:HB2	33:Z:982:ILE:HD12	1.86	0.57
10:c:78:ALA:O	10:c:134:SER:N	2.27	0.57
3:h:129:VAL:O	3:h:140:LYS:HG3	2.04	0.57
5:j:189:ILE:HG13	5:j:198:ARG:HH12	1.70	0.57
1:1:21:PHE:CG	2:2:142:PRO:HG3	2.40	0.57
1:1:35:ALA:HB1	1:1:139:GLY:O	2.05	0.57
1:1:214:HIS:HE1	4:4:53:PRO:HB2	1.68	0.57
2:2:126:PHE:CZ	2:2:161:ARG:HG2	2.39	0.57
7:7:210:PHE:CE1	7:7:242:ARG:HG2	2.40	0.57
1:8:28:GLY:HA3	1:8:49:ILE:HG13	1.86	0.57
8:A:94:ALA:O	8:A:98:LYS:N	2.26	0.57
8:A:200:GLU:H	8:A:200:GLU:CD	2.11	0.57
11:D:12:SER:O	12:E:26:TYR:HB3	2.05	0.57
13:F:230:VAL:O	13:F:234:ILE:HG13	2.04	0.57
14:G:91:ARG:HD2	14:G:94:GLU:OE1	2.04	0.57
15:H:97:LEU:HD11	15:H:100:ALA:HB2	1.86	0.57
15:H:294:LEU:O	15:H:298:ALA:N	2.32	0.57
16:I:401:LEU:O	16:I:405:ARG:N	2.37	0.57
19:L:89:ASP:O	19:L:93:ASN:N	2.32	0.57
19:L:164:ASP:OD2	19:L:262:ILE:HA	2.05	0.57
19:L:265:GLU:OE2	19:L:269:TYR:HB2	2.05	0.57
21:N:250:ASP:OD2	21:N:906:ARG:NH2	2.35	0.57
21:N:495:PRO:C	21:N:499:HIS:HD1	2.11	0.57
21:N:612:SER:H	21:N:618:ARG:NH2	2.03	0.57
21:N:666:GLN:HE22	21:N:712:ASN:HA	1.69	0.57
23:P:5:ALA:HA	23:P:52:LEU:HB3	1.87	0.57
23:P:168:TYR:CD1	23:P:171:MET:HB3	2.37	0.57
23:P:282:HIS:CD2	23:P:284:ILE:HA	2.40	0.57
23:P:369:LEU:HD23	23:P:371:LEU:HD12	1.86	0.57
24:Q:145:HIS:HA	24:Q:148:LYS:HB3	1.87	0.57
25:R:225:LYS:HZ3	25:R:260:THR:C	2.13	0.57
25:R:292:LEU:HA	25:R:295:SER:HB3	1.87	0.57
25:R:372:ILE:HB	26:S:395:ILE:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:385:SER:C	26:S:389:LYS:NZ	2.63	0.57
27:T:109:TYR:O	27:T:112:ASN:HB3	2.05	0.57
29:V:111:HIS:HB3	29:V:114:PHE:CD2	2.40	0.57
31:X:22:ARG:NH1	31:X:98:PHE:CE2	2.73	0.57
31:X:38:ASN:HA	31:X:47:ASP:H	1.69	0.57
33:Z:217:GLU:HG2	33:Z:218:GLU:N	2.20	0.57
33:Z:970:TYR:HE2	33:Z:993:GLU:HG2	1.70	0.57
10:c:172:ALA:HB2	10:c:200:THR:HG21	1.86	0.57
11:d:12:SER:O	11:d:15:GLY:N	2.34	0.57
13:f:73:SER:OG	13:f:133:LEU:HB2	2.04	0.57
13:f:232:LYS:HE2	13:f:233:TYR:CE2	2.40	0.57
14:g:123:HIS:O	14:g:131:PRO:HG3	2.04	0.57
3:h:17:SER:O	3:h:40:THR:N	2.36	0.57
3:h:59:LYS:O	3:h:121:TYR:N	2.36	0.57
3:3:59:LYS:HB3	3:3:121:TYR:O	2.04	0.57
4:4:66:ILE:HD11	4:4:72:CYS:HB2	1.86	0.57
4:4:140:PHE:CE1	4:4:150:VAL:HB	2.40	0.57
6:6:52:ASP:H	7:7:166:LYS:HZ3	1.53	0.57
7:7:207:GLY:HA3	7:7:239:ALA:HB1	1.85	0.57
2:9:180:GLY:O	2:9:184:ALA:N	2.31	0.57
9:B:12:PHE:N	10:C:21:GLN:HE22	2.01	0.57
9:B:13:SER:OG	9:B:17:LYS:N	2.37	0.57
10:C:69:LEU:HD22	10:C:91:ALA:HB3	1.86	0.57
10:C:107:PRO:HD2	10:C:110:ILE:HD12	1.87	0.57
11:D:16:HIS:CE1	12:E:33:LEU:HD11	2.39	0.57
11:D:70:HIS:HA	11:D:219:SER:HA	1.85	0.57
12:E:169:ALA:HB3	13:F:56:LEU:HD23	1.86	0.57
13:F:36:VAL:HB	13:F:47:VAL:HB	1.87	0.57
13:F:67:ASP:OD2	13:F:69:HIS:CE1	2.57	0.57
13:F:70:MET:HE2	13:F:105:VAL:HA	1.86	0.57
14:G:95:GLU:O	14:G:99:PHE:N	2.31	0.57
16:I:88:LYS:O	16:I:92:GLU:HG3	2.05	0.57
17:J:209:LYS:HB2	17:J:243:SER:HB2	1.87	0.57
18:K:365:GLU:OE1	18:K:403:LEU:HB3	2.04	0.57
19:L:76:GLN:HB3	19:L:80:ASN:HD21	1.69	0.57
19:L:371:THR:OG1	19:L:374:PHE:N	2.34	0.57
21:N:285:ALA:O	21:N:289:ILE:N	2.34	0.57
21:N:390:LEU:O	21:N:393:SER:OG	2.20	0.57
21:N:495:PRO:HA	21:N:498:ILE:HB	1.87	0.57
21:N:776:TYR:HE1	21:N:779:GLU:OE2	1.87	0.57
22:O:127:LEU:O	22:O:130:ASP:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:309:SER:CB	22:O:348:VAL:H	2.18	0.57
23:P:297:GLU:O	23:P:301:LYS:N	2.31	0.57
23:P:427:GLU:OE1	29:V:234:GLU:CD	2.47	0.57
24:Q:141:LEU:HA	24:Q:144:LEU:HD12	1.87	0.57
25:R:186:TYR:O	25:R:190:LYS:N	2.18	0.57
26:S:401:LYS:NZ	26:S:442:PHE:CD2	2.72	0.57
26:S:482:PRO:HG3	28:U:295:LYS:HB3	1.87	0.57
28:U:80:CYS:O	28:U:84:ASN:N	2.22	0.57
28:U:141:GLU:HA	28:U:153:THR:H	1.66	0.57
28:U:207:VAL:O	28:U:211:LEU:N	2.24	0.57
29:V:94:MET:O	29:V:98:THR:N	2.29	0.57
33:Z:109:PRO:C	33:Z:142:ASP:OD2	2.47	0.57
33:Z:914:LEU:HB3	33:Z:980:VAL:HG13	1.87	0.57
8:a:32:PHE:O	8:a:35:THR:OG1	2.13	0.57
10:c:69:LEU:HD22	10:c:91:ALA:HB3	1.86	0.57
10:c:141:ASP:OD2	10:c:147:GLN:NE2	2.37	0.57
11:d:32:CYS:HB2	11:d:166:ARG:O	2.04	0.57
12:e:177:GLU:HG2	12:e:178:GLY:H	1.68	0.57
14:g:54:ILE:HD11	14:g:213:GLU:HB2	1.87	0.57
14:g:91:ARG:HD2	14:g:94:GLU:OE1	2.04	0.57
1:1:215:ILE:HD12	4:4:196:LEU:HB3	1.87	0.57
7:7:83:PHE:CZ	7:7:225:VAL:HG22	2.39	0.57
7:7:225:VAL:O	7:7:229:LEU:N	2.25	0.57
7:7:226:GLU:HA	7:7:229:LEU:HB2	1.87	0.57
8:A:133:TYR:CD2	14:G:126:TYR:CE1	2.92	0.57
8:A:154:ILE:CD1	8:A:168:ALA:HA	2.34	0.57
9:B:138:GLY:O	9:B:146:SER:N	2.37	0.57
9:B:160:LYS:N	10:C:56:LEU:O	2.22	0.57
10:C:36:ILE:HA	10:C:164:SER:HA	1.85	0.57
10:C:172:ALA:HB2	10:C:200:THR:HG21	1.86	0.57
11:D:109:LEU:O	11:D:112:TYR:HB3	2.04	0.57
13:F:51:ARG:O	13:F:60:GLN:N	2.37	0.57
14:G:126:TYR:HB2	14:G:129:VAL:HG22	1.87	0.57
14:G:179:LEU:HD11	14:G:195:GLN:HE21	1.70	0.57
15:H:225:VAL:HA	15:H:350:LYS:HE3	1.86	0.57
16:I:308:GLU:HA	16:I:311:ASN:HB2	1.86	0.57
17:J:329:ARG:HA	17:J:343:LEU:HD13	1.85	0.57
17:J:369:ALA:HA	17:J:372:GLU:HB2	1.86	0.57
18:K:97:GLY:HA3	18:K:111:SER:O	2.05	0.57
19:L:242:ASN:H	19:L:276:CYS:HA	1.70	0.57
20:M:137:PRO:HA	20:M:140:LEU:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:46:ILE:HA	21:N:49:LEU:HD12	1.85	0.57
21:N:95:SER:H	21:N:98:VAL:HB	1.70	0.57
21:N:318:LYS:HG2	21:N:332:VAL:HB	1.85	0.57
21:N:444:HIS:HA	21:N:447:SER:HB2	1.86	0.57
21:N:669:GLU:O	21:N:783:SER:OG	2.14	0.57
21:N:784:TYR:HD2	21:N:873:ARG:HH21	1.53	0.57
21:N:884:PHE:HE2	21:N:896:PHE:HA	1.70	0.57
22:O:130:ASP:OD2	22:O:167:ILE:HG13	2.05	0.57
22:O:310:PHE:CD2	22:O:311:GLU:OE2	2.58	0.57
23:P:168:TYR:C	23:P:176:LYS:HZ2	2.12	0.57
24:Q:9:GLU:O	24:Q:13:ARG:HG3	2.05	0.57
24:Q:55:GLU:HA	24:Q:58:ILE:HB	1.86	0.57
24:Q:269:LYS:HA	24:Q:272:LEU:HB3	1.87	0.57
25:R:133:ALA:HA	25:R:136:ASN:ND2	2.20	0.57
27:T:122:PHE:HZ	27:T:145:PRO:HB2	1.69	0.57
28:U:192:ASN:HA	29:V:232:GLU:OE2	2.04	0.57
9:b:190:HIS:CE1	9:b:194:LEU:HD21	2.40	0.57
10:c:107:PRO:HD2	10:c:110:ILE:HD12	1.87	0.57
10:c:226:TYR:CE2	10:c:228:LYS:HB2	2.40	0.57
11:d:109:LEU:O	11:d:112:TYR:HB3	2.04	0.57
14:g:123:HIS:ND1	14:g:132:PHE:HE1	2.03	0.57
3:h:108:ASN:O	3:h:111:ASN:N	2.34	0.57
3:h:122:ASP:OD2	3:h:124:LYS:HB3	2.04	0.57
5:5:13:VAL:HG23	5:5:138:VAL:HG12	1.86	0.56
6:6:139:TYR:CD2	6:6:168:LEU:HD23	2.37	0.56
1:8:223:ILE:O	1:8:234:GLU:N	2.31	0.56
2:9:218:TYR:CZ	2:9:226:ARG:HB2	2.40	0.56
2:9:253:ASP:OD2	4:i:173:GLN:NE2	2.37	0.56
11:D:179:TYR:CE1	11:D:184:PRO:HA	2.40	0.56
12:E:47:VAL:C	12:E:48:LEU:HD12	2.30	0.56
13:F:94:TYR:O	13:F:98:VAL:N	2.26	0.56
14:G:211:ASP:OD1	14:G:212:PHE:N	2.37	0.56
15:H:255:GLY:O	15:H:259:CYS:N	2.29	0.56
15:H:380:PRO:HG2	15:H:416:GLY:N	2.19	0.56
16:I:398:GLU:OE2	16:I:422:ARG:HD2	2.05	0.56
17:J:72:VAL:HG23	17:J:126:LEU:HD12	1.86	0.56
17:J:154:THR:HG22	17:J:158:LYS:HG3	1.87	0.56
17:J:373:ARG:HH22	24:Q:193:LYS:HG2	1.69	0.56
19:L:221:TYR:C	19:L:228:LYS:HZ2	2.12	0.56
19:L:224:PRO:HA	19:L:228:LYS:HB3	1.88	0.56
20:M:6:GLU:O	20:M:10:GLN:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:12:LEU:HA	20:M:15:ASP:HB2	1.87	0.56
21:N:283:ASP:HB2	21:N:286:LEU:HG	1.86	0.56
21:N:308:ASN:ND2	21:N:712:ASN:HD21	1.96	0.56
21:N:340:HIS:ND1	21:N:345:ASP:HB3	2.20	0.56
21:N:539:MET:HE1	21:N:554:THR:HG21	1.87	0.56
21:N:581:ASP:HB3	21:N:616:HIS:CB	2.35	0.56
21:N:780:ASP:HA	21:N:783:SER:HB3	1.88	0.56
22:O:166:ARG:O	22:O:166:ARG:NH1	2.36	0.56
23:P:348:HIS:ND1	23:P:351:ARG:HD2	2.19	0.56
23:P:373:GLU:O	23:P:377:GLU:N	2.22	0.56
24:Q:57:SER:C	24:Q:61:LEU:HB3	2.29	0.56
24:Q:72:ASP:HA	24:Q:75:ARG:NE	2.19	0.56
27:T:23:CYS:HA	27:T:26:LEU:HD12	1.87	0.56
29:V:206:THR:HG21	29:V:208:LYS:HB3	1.87	0.56
9:b:158:PRO:HG3	10:c:61:THR:HB	1.86	0.56
9:b:184:GLU:OE1	9:b:187:ASP:N	2.23	0.56
9:b:186:GLU:CD	9:b:246:ARG:HE	2.13	0.56
10:c:208:TYR:CG	10:c:236:LYS:HB2	2.40	0.56
12:e:167:TYR:HB3	12:e:169:ALA:O	2.05	0.56
13:f:7:ASP:HA	13:f:20:PHE:CD1	2.39	0.56
13:f:50:LYS:HE3	13:f:209:ASP:O	2.05	0.56
13:f:94:TYR:O	13:f:98:VAL:N	2.26	0.56
3:h:36:ASP:OD2	3:h:38:ARG:HB3	2.05	0.56
3:h:121:TYR:CE1	3:h:126:LYS:HA	2.40	0.56
4:i:133:ASP:OD1	4:i:135:THR:OG1	2.23	0.56
6:k:185:ASP:OD2	6:k:190:ARG:NH1	2.38	0.56
1:1:171:ASN:ND2	5:5:169:GLN:HB3	2.20	0.56
2:2:220:ARG:NH2	4:4:168:GLU:OE2	2.38	0.56
3:3:20:THR:HA	3:3:188:SER:CB	2.34	0.56
3:3:36:ASP:HB2	3:3:189:GLY:O	2.04	0.56
4:4:63:LEU:HG	4:4:73:ALA:HB2	1.87	0.56
5:5:62:THR:CA	6:6:85:ARG:HH22	2.18	0.56
5:5:85:GLU:CD	5:5:85:GLU:H	2.13	0.56
6:6:38:LEU:HD11	6:6:44:MET:HB2	1.86	0.56
6:6:47:ALA:N	6:6:101:ASN:O	2.39	0.56
6:6:185:ASP:CG	6:6:190:ARG:NH1	2.58	0.56
1:8:95:HIS:CE1	1:8:102:LYS:HA	2.37	0.56
1:8:197:GLU:HA	1:8:200:ILE:HD12	1.87	0.56
2:9:161:ARG:NH1	2:9:171:SER:N	2.53	0.56
9:B:108:LYS:HG3	9:B:109:LEU:N	2.20	0.56
10:C:238:ILE:HG13	10:C:242:THR:HG23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:41:ALA:HB2	12:E:155:LEU:HB2	1.87	0.56
15:H:426:ALA:O	15:H:430:ALA:N	2.23	0.56
16:I:117:HIS:HA	16:I:131:SER:HA	1.85	0.56
17:J:198:LEU:HD13	17:J:316:PHE:CD2	2.39	0.56
21:N:142:GLU:O	21:N:146:LYS:N	2.27	0.56
21:N:322:ASP:O	21:N:329:HIS:HB2	2.05	0.56
21:N:362:TRP:HD1	29:V:165:ILE:C	2.12	0.56
21:N:599:TYR:CD1	21:N:632:LYS:NZ	2.73	0.56
21:N:756:THR:OG1	21:N:872:THR:O	2.20	0.56
22:O:16:MET:N	30:W:18:ASN:OD1	2.38	0.56
22:O:338:LYS:HZ2	22:O:353:VAL:HB	1.69	0.56
23:P:260:VAL:O	23:P:264:ILE:HG13	2.05	0.56
23:P:435:LYS:NZ	28:U:156:HIS:H	1.95	0.56
24:Q:302:VAL:HG13	24:Q:335:PHE:CZ	2.40	0.56
24:Q:424:ASP:HA	24:Q:427:PHE:HB3	1.87	0.56
25:R:33:LEU:HD13	25:R:47:ALA:HB2	1.87	0.56
25:R:147:LYS:HE3	25:R:177:LEU:O	2.05	0.56
26:S:338:MET:HG3	26:S:343:LEU:N	2.20	0.56
26:S:353:LYS:NZ	32:Y:67:VAL:HA	2.20	0.56
26:S:393:ARG:NH2	26:S:394:ILE:HD11	2.20	0.56
31:X:15:CYS:H	31:X:99:PHE:HA	1.69	0.56
9:b:220:ASP:OD1	9:b:221:LEU:N	2.37	0.56
10:c:135:PHE:HB2	10:c:137:TYR:CE1	2.39	0.56
13:f:83:VAL:O	13:f:87:TYR:N	2.24	0.56
7:l:210:PHE:CE1	7:l:242:ARG:HG2	2.40	0.56
1:1:28:GLY:HA3	1:1:49:ILE:CG1	2.35	0.56
1:1:31:ILE:O	1:1:158:GLY:N	2.27	0.56
1:1:218:GLY:HA2	1:1:238:LEU:HB3	1.87	0.56
2:2:161:ARG:NH1	2:2:171:SER:N	2.53	0.56
3:3:156:TYR:N	3:h:156:TYR:HB2	2.20	0.56
5:5:126:LEU:HD12	5:5:127:ILE:HG23	1.86	0.56
5:5:183:TRP:HH2	7:l:242:ARG:NH1	2.03	0.56
6:6:96:ARG:NH1	7:7:166:LYS:HD3	2.20	0.56
1:8:35:ALA:HB1	1:8:139:GLY:O	2.05	0.56
1:8:73:ALA:HA	1:8:128:THR:HA	1.87	0.56
1:8:218:GLY:HA2	1:8:238:LEU:HB3	1.87	0.56
2:9:65:SER:HA	2:9:223:ARG:NH2	2.20	0.56
2:9:186:PRO:O	2:9:190:LYS:N	2.29	0.56
10:C:206:LEU:HD23	10:C:244:ILE:HD13	1.88	0.56
11:D:32:CYS:O	11:D:47:GLU:HG2	2.05	0.56
11:D:43:VAL:HG22	11:D:214:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:44:LEU:O	11:D:213:THR:N	2.32	0.56
11:D:53:LYS:O	11:D:54:LEU:HB3	2.05	0.56
12:E:167:TYR:HB3	12:E:169:ALA:O	2.05	0.56
12:E:196:ALA:HA	12:E:199:LEU:HB2	1.87	0.56
13:F:43:HIS:CD2	13:F:217:GLY:HA3	2.41	0.56
13:F:176:LEU:CD2	14:G:57:LYS:HE3	2.35	0.56
13:F:187:ASP:HB3	13:F:191:LYS:HZ3	1.70	0.56
13:F:232:LYS:HE2	13:F:233:TYR:CE2	2.40	0.56
15:H:169:GLU:HG2	15:H:170:GLU:CG	2.35	0.56
15:H:223:GLU:HB2	20:M:404:ARG:HE	1.70	0.56
15:H:244:LYS:O	15:H:346:ARG:HD2	2.05	0.56
16:I:109:LEU:O	16:I:144:GLY:HA2	2.06	0.56
17:J:318:PRO:CB	17:J:319:PRO:HA	2.31	0.56
17:J:354:SER:O	17:J:358:VAL:HG23	2.05	0.56
18:K:96:ILE:CG1	19:L:128:ILE:HG13	2.35	0.56
18:K:176:GLY:HA3	18:K:348:GLU:HA	1.87	0.56
18:K:177:LEU:HD13	18:K:222:LEU:HD21	1.85	0.56
18:K:205:PRO:HG2	18:K:308:GLN:HB3	1.86	0.56
18:K:407:LEU:O	18:K:411:TYR:N	2.21	0.56
19:L:77:ARG:HD2	20:M:15:ASP:HB3	1.88	0.56
19:L:92:GLU:HG2	19:L:96:LYS:HZ2	1.71	0.56
19:L:92:GLU:HG2	19:L:96:LYS:NZ	2.20	0.56
19:L:221:TYR:N	19:L:347:VAL:O	2.32	0.56
19:L:357:ARG:NH1	19:L:385:GLY:H	2.03	0.56
19:L:383:SER:HA	19:L:386:PHE:CE2	2.40	0.56
20:M:17:GLU:HB3	20:M:21:GLU:CD	2.30	0.56
20:M:221:TYR:CD1	20:M:346:LYS:HG2	2.41	0.56
20:M:241:ALA:HB3	20:M:277:ILE:HG13	1.87	0.56
21:N:89:PHE:HE1	21:N:98:VAL:HG13	1.69	0.56
21:N:98:VAL:HA	21:N:101:ILE:HG12	1.86	0.56
21:N:184:LYS:O	21:N:188:TYR:N	2.28	0.56
21:N:327:LEU:HD11	29:V:164:LEU:HD21	1.87	0.56
21:N:449:GLY:O	21:N:452:LEU:HB3	2.05	0.56
21:N:880:ARG:HA	21:N:896:PHE:CE2	2.40	0.56
22:O:45:LEU:HD23	22:O:48:PHE:CD2	2.40	0.56
22:O:172:TYR:HD2	22:O:198:THR:HG1	1.51	0.56
22:O:180:LYS:HB2	22:O:188:PHE:CE1	2.40	0.56
22:O:214:ALA:HA	22:O:217:LEU:HB3	1.85	0.56
22:O:273:GLN:O	22:O:276:LYS:HB3	2.06	0.56
22:O:342:ASP:HA	23:P:359:ARG:HB2	1.86	0.56
23:P:36:LEU:HA	23:P:39:LEU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:415:TRP:O	23:P:419:VAL:N	2.29	0.56
24:Q:34:ASP:OD2	24:Q:50:ARG:NE	2.39	0.56
24:Q:71:LYS:HG3	24:Q:104:PHE:CE2	2.39	0.56
24:Q:164:GLU:HG3	24:Q:169:ASP:CB	2.35	0.56
24:Q:216:ALA:HB1	24:Q:246:TYR:CE2	2.40	0.56
24:Q:264:TYR:CD1	24:Q:330:LEU:HD13	2.41	0.56
24:Q:361:HIS:O	24:Q:365:ILE:N	2.27	0.56
24:Q:370:THR:O	24:Q:374:GLU:HG3	2.04	0.56
25:R:60:ALA:HB3	25:R:102:LEU:HD13	1.87	0.56
25:R:62:TYR:HE1	25:R:65:TYR:HD2	1.53	0.56
25:R:131:ALA:O	25:R:134:TRP:HB2	2.05	0.56
25:R:168:ILE:HG23	25:R:206:ARG:HE	1.69	0.56
25:R:305:PHE:CE2	32:Y:79:ALA:HA	2.39	0.56
25:R:354:ALA:HB3	25:R:361:VAL:HG13	1.88	0.56
25:R:360:SER:H	32:Y:82:ASP:CG	2.13	0.56
26:S:200:GLU:H	26:S:201:ILE:C	2.13	0.56
26:S:312:GLN:HA	26:S:315:LYS:HD2	1.86	0.56
26:S:425:ARG:NE	27:T:154:GLU:HB2	2.20	0.56
26:S:472:HIS:O	26:S:475:TYR:HD1	1.71	0.56
27:T:261:GLU:HG2	29:V:292:ILE:HG23	1.87	0.56
28:U:199:GLY:N	29:V:233:LYS:HZ1	2.04	0.56
29:V:40:HIS:NE2	29:V:49:VAL:HB	2.21	0.56
29:V:162:GLY:N	29:V:165:ILE:HD12	2.19	0.56
32:Y:83:ARG:HA	32:Y:86:ARG:HB3	1.87	0.56
33:Z:304:PRO:CA	33:Z:340:LEU:HD13	2.35	0.56
33:Z:404:ASP:HB3	33:Z:408:TYR:CE2	2.41	0.56
33:Z:564:ARG:HH21	33:Z:593:HIS:CG	2.22	0.56
33:Z:772:ILE:HA	33:Z:775:MET:HB3	1.87	0.56
33:Z:968:ASP:OD1	33:Z:976:HIS:NE2	2.25	0.56
8:a:42:SER:O	8:a:171:THR:N	2.32	0.56
8:a:145:SER:HA	8:a:228:ALA:HB1	1.87	0.56
8:a:208:THR:O	8:a:212:ASP:N	2.29	0.56
9:b:36:GLY:HA2	9:b:45:ILE:HA	1.88	0.56
9:b:45:ILE:HD12	9:b:74:VAL:HB	1.85	0.56
9:b:178:ARG:HG2	9:b:191:ILE:HG23	1.86	0.56
10:c:120:GLN:NE2	11:d:81:ASP:HA	2.21	0.56
12:e:15:PHE:HZ	13:f:126:ARG:HH11	1.53	0.56
12:e:41:ALA:HB2	12:e:155:LEU:HB2	1.87	0.56
12:e:243:LEU:HB3	12:e:247:GLU:CD	2.30	0.56
14:g:38:ILE:HD11	14:g:196:ALA:HB1	1.86	0.56
3:h:37:SER:HB2	3:h:49:VAL:C	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:140:PHE:CE1	4:i:150:VAL:HB	2.40	0.56
4:i:188:ILE:O	4:i:192:ILE:N	2.22	0.56
5:j:126:LEU:HD12	5:j:127:ILE:HG23	1.86	0.56
6:k:166:GLN:O	6:k:170:LYS:N	2.31	0.56
6:k:185:ASP:CG	6:k:190:ARG:NH1	2.58	0.56
7:l:176:ILE:O	7:l:188:TYR:N	2.37	0.56
7:l:204:VAL:HA	7:l:208:GLN:OE1	2.05	0.56
3:3:67:SER:HB3	3:3:70:ASP:CG	2.31	0.56
3:3:121:TYR:CE1	3:3:126:LYS:HA	2.40	0.56
3:3:176:HIS:HD2	3:h:159:LYS:HZ3	1.49	0.56
4:4:86:GLN:HE21	9:B:99:ARG:HA	1.70	0.56
7:7:162:VAL:O	7:7:166:LYS:N	2.37	0.56
2:9:50:ASP:O	2:9:158:GLN:NE2	2.38	0.56
9:B:173:THR:HG22	9:B:177:LYS:HZ2	1.70	0.56
9:B:220:ASP:OD1	9:B:221:LEU:N	2.37	0.56
10:C:226:TYR:CE2	10:C:228:LYS:HB2	2.40	0.56
12:E:76:CYS:HB2	12:E:143:LEU:O	2.06	0.56
13:F:14:SER:OG	13:F:18:ARG:N	2.39	0.56
15:H:58:ASP:HB3	16:I:133:LEU:HB3	1.88	0.56
15:H:58:ASP:OD1	16:I:134:SER:N	2.38	0.56
15:H:202:GLU:HA	15:H:270:THR:HA	1.87	0.56
16:I:181:TYR:HB2	16:I:191:ILE:HD13	1.87	0.56
18:K:247:LEU:HA	18:K:294:ARG:HH12	1.70	0.56
20:M:17:GLU:HG2	30:W:72:ILE:HG22	1.88	0.56
20:M:316:SER:HA	20:M:341:GLY:HA2	1.87	0.56
21:N:461:GLU:HA	21:N:464:GLU:HB3	1.86	0.56
21:N:515:ARG:HD3	21:N:738:GLN:OE1	2.05	0.56
22:O:41:LEU:H	22:O:52:ALA:HB3	1.69	0.56
22:O:96:LEU:HD12	22:O:99:LEU:HD23	1.88	0.56
22:O:150:LEU:O	22:O:154:GLU:N	2.25	0.56
22:O:383:LYS:NZ	27:T:262:LYS:HZ1	2.02	0.56
23:P:81:LEU:HD23	23:P:84:LYS:HD2	1.86	0.56
23:P:306:ASN:HD21	23:P:345:VAL:HG13	1.70	0.56
23:P:410:GLN:HB3	23:P:414:GLU:CD	2.31	0.56
25:R:342:LEU:HD21	25:R:390:THR:HA	1.86	0.56
25:R:353:MET:HA	25:R:357:PHE:CE2	2.40	0.56
26:S:28:GLU:O	26:S:32:GLN:N	2.24	0.56
26:S:150:LYS:HG3	26:S:151:GLU:N	2.20	0.56
26:S:480:ARG:O	26:S:484:ASP:N	2.29	0.56
27:T:13:ILE:HG22	27:T:17:ASN:HD21	1.70	0.56
28:U:168:GLU:HA	28:U:171:VAL:HB	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:276:ILE:CA	29:V:291:ASN:ND2	2.68	0.56
33:Z:887:GLY:O	33:Z:889:VAL:HG13	2.06	0.56
9:b:226:GLY:HA3	4:i:215:TYR:O	2.05	0.56
11:d:43:VAL:HG22	11:d:214:VAL:HG22	1.87	0.56
13:f:193:GLY:O	13:f:197:ILE:N	2.28	0.56
14:g:87:HIS:CD2	14:g:132:PHE:CE2	2.80	0.56
4:i:99:THR:HB	4:i:101:ARG:HD2	1.85	0.56
4:i:177:LYS:NZ	4:i:211:LYS:HZ3	2.04	0.56
5:j:146:LEU:O	5:j:150:CYS:N	2.28	0.56
1:1:132:GLY:HA2	1:1:226:VAL:HG11	1.86	0.56
1:1:156:ARG:NH1	7:l:102:ALA:O	2.37	0.56
2:2:50:ASP:O	2:2:158:GLN:NE2	2.38	0.56
2:2:137:ARG:O	2:2:140:MET:N	2.33	0.56
4:4:44:ALA:HB2	4:4:204:VAL:HG22	1.88	0.56
4:4:133:ASP:OD1	4:4:135:THR:OG1	2.23	0.56
5:5:17:GLY:N	5:5:20:CYS:O	2.38	0.56
6:6:36:ARG:HG2	6:6:46:PHE:HE2	1.71	0.56
7:7:172:MET:N	7:7:192:SER:HB3	2.20	0.56
1:8:168:PHE:CZ	1:8:172:GLN:HG3	2.41	0.56
9:B:119:GLN:NE2	10:C:86:ILE:HG13	2.20	0.56
10:C:175:LEU:HB3	10:C:199:LYS:HZ3	1.70	0.56
11:D:159:TRP:HE3	12:E:58:LEU:HB2	1.70	0.56
11:D:226:SER:HA	11:D:229:ILE:HD12	1.87	0.56
13:F:206:LEU:HD13	13:F:211:LEU:HD22	1.88	0.56
15:H:425:GLU:HB2	16:I:345:ASP:OD2	2.06	0.56
16:I:96:LEU:HD12	16:I:99:ILE:HD12	1.87	0.56
16:I:354:ASP:N	16:I:357:THR:OG1	2.38	0.56
17:J:134:VAL:HA	17:J:138:MET:HB3	1.88	0.56
18:K:341:PRO:HB2	18:K:343:LEU:HD13	1.87	0.56
19:L:82:ARG:CB	19:L:86:LYS:HZ1	2.18	0.56
19:L:228:LYS:HG3	19:L:349:ILE:HD13	1.87	0.56
19:L:368:VAL:O	19:L:370:LYS:HG3	2.06	0.56
20:M:228:LYS:HZ1	20:M:327:THR:N	2.03	0.56
20:M:271:LYS:HA	20:M:274:ALA:HB2	1.88	0.56
21:N:139:ARG:O	21:N:142:GLU:HB2	2.05	0.56
21:N:193:ALA:HA	21:N:196:THR:OG1	2.05	0.56
21:N:463:TYR:CE2	21:N:467:LYS:HD2	2.40	0.56
21:N:909:GLU:HB3	21:N:912:GLU:OE1	2.05	0.56
22:O:14:LEU:O	30:W:18:ASN:ND2	2.38	0.56
22:O:195:TYR:O	22:O:199:LEU:N	2.29	0.56
22:O:374:ASN:HD21	28:U:197:LEU:HB2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:145:GLU:O	23:P:148:LYS:HB3	2.05	0.56
24:Q:355:GLU:HB2	24:Q:399:VAL:HA	1.86	0.56
25:R:66:LEU:HA	25:R:69:GLU:HB2	1.88	0.56
25:R:168:ILE:HG23	25:R:209:ARG:HH12	1.70	0.56
25:R:301:TYR:OH	25:R:359:VAL:HG21	2.06	0.56
25:R:345:TYR:HB2	25:R:348:LEU:HB2	1.88	0.56
26:S:152:LEU:CB	26:S:187:ILE:HG23	2.36	0.56
27:T:203:SER:HA	27:T:214:GLU:OE2	2.05	0.56
28:U:139:ALA:C	28:U:153:THR:O	2.46	0.56
28:U:169:ILE:O	28:U:173:HIS:ND1	2.37	0.56
29:V:87:PHE:HA	29:V:90:LYS:HD2	1.86	0.56
29:V:106:GLY:HA3	29:V:137:VAL:H	1.71	0.56
29:V:276:PRO:O	29:V:280:LEU:HD11	2.06	0.56
30:W:11:ASP:HB2	30:W:115:CYS:H	1.70	0.56
30:W:25:ARG:O	30:W:29:GLN:HG3	2.05	0.56
33:Z:793:PHE:CE2	33:Z:827:LEU:HA	2.41	0.56
33:Z:887:GLY:HA2	33:Z:900:LEU:HD13	1.87	0.56
9:b:147:LEU:HG	9:b:159:TRP:HB2	1.88	0.56
9:b:224:TYR:CE2	4:i:65:ARG:NH1	2.73	0.56
10:c:206:LEU:HD23	10:c:244:ILE:HD13	1.88	0.56
10:c:214:ALA:HB2	10:c:229:ILE:HG12	1.88	0.56
13:f:36:VAL:HB	13:f:47:VAL:HB	1.87	0.56
13:f:204:GLU:OE2	13:f:210:ASN:ND2	2.39	0.56
4:i:99:THR:HB	4:i:101:ARG:HH11	1.70	0.56
5:j:13:VAL:HG23	5:j:138:VAL:HG12	1.87	0.56
7:l:272:PHE:O	7:l:276:LYS:N	2.36	0.56
1:1:168:PHE:CZ	1:1:172:GLN:HG3	2.41	0.56
1:1:214:HIS:NE2	1:1:216:GLN:HB2	2.20	0.56
2:2:95:HIS:O	2:2:99:LEU:HG	2.04	0.56
3:3:26:THR:HG22	3:3:31:VAL:HB	1.86	0.56
3:3:36:ASP:OD2	3:3:38:ARG:HB3	2.06	0.56
3:3:154:TYR:HB3	3:h:184:TRP:CZ2	2.40	0.56
6:6:21:VAL:HG12	6:6:28:LEU:HB2	1.86	0.56
6:6:66:LEU:HB2	11:D:94:GLN:HG3	1.88	0.56
8:A:118:ALA:O	8:A:122:ALA:N	2.25	0.56
9:B:119:GLN:HE22	10:C:86:ILE:HG13	1.71	0.56
9:B:190:HIS:CE1	9:B:194:LEU:HD21	2.40	0.56
14:G:169:ARG:O	14:G:173:LYS:HG3	2.06	0.56
15:H:97:LEU:CG	15:H:189:PRO:HB2	2.35	0.56
15:H:156:VAL:H	20:M:76:PRO:HG3	1.71	0.56
15:H:256:LYS:NZ	15:H:355:THR:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:190:GLN:HE22	16:I:349:LEU:C	2.13	0.56
17:J:304:LEU:O	17:J:309:ARG:HB2	2.05	0.56
19:L:221:TYR:HA	19:L:228:LYS:NZ	2.21	0.56
19:L:330:PRO:HB2	19:L:346:LYS:HE3	1.88	0.56
21:N:75:TYR:CB	21:N:104:LYS:HE2	2.36	0.56
21:N:668:THR:O	21:N:783:SER:OG	2.24	0.56
21:N:893:VAL:HG13	21:N:906:ARG:HD3	1.86	0.56
22:O:4:ASN:HB2	22:O:30:GLU:OE1	2.06	0.56
22:O:169:ASN:HA	22:O:195:TYR:CE1	2.39	0.56
23:P:40:LEU:HB3	23:P:44:LYS:NZ	2.20	0.56
23:P:119:ILE:HD12	23:P:126:THR:HG23	1.87	0.56
23:P:124:VAL:HG12	23:P:130:ILE:H	1.71	0.56
23:P:249:ALA:HB2	23:P:257:TRP:CZ2	2.40	0.56
23:P:253:ASP:OD1	23:P:256:LYS:N	2.39	0.56
24:Q:125:ALA:CA	24:Q:130:ARG:HB3	2.36	0.56
24:Q:243:PHE:O	24:Q:247:HIS:N	2.23	0.56
24:Q:415:LEU:HD11	29:V:258:GLU:HA	1.86	0.56
25:R:338:TYR:CD1	25:R:341:LEU:HD12	2.39	0.56
27:T:169:GLN:NE2	27:T:173:GLU:H	2.03	0.56
27:T:194:GLU:HG3	27:T:235:PHE:CD2	2.40	0.56
29:V:108:TYR:HE1	29:V:141:VAL:HG21	1.61	0.56
30:W:164:PRO:HD2	30:W:168:THR:HG23	1.87	0.56
33:Z:823:ASN:ND2	33:Z:860:GLY:O	2.37	0.56
9:b:142:PHE:CD2	5:j:80:ARG:HD2	2.36	0.56
10:c:45:VAL:HG21	10:c:189:ALA:HB3	1.88	0.56
12:e:144:ILE:O	12:e:156:PHE:N	2.39	0.56
13:f:179:PHE:O	13:f:182:ILE:N	2.38	0.56
13:f:206:LEU:HD13	13:f:211:LEU:HD22	1.88	0.56
14:g:194:LYS:HB3	14:g:242:PHE:CD1	2.40	0.56
3:h:162:ARG:NH2	3:h:165:MET:HG2	2.20	0.56
6:k:82:SER:N	6:k:125:LYS:HZ3	2.04	0.56
6:k:165:VAL:HG12	6:k:169:GLU:OE2	2.06	0.56
1:1:197:GLU:HA	1:1:200:ILE:HD12	1.88	0.56
2:2:65:SER:HA	2:2:223:ARG:NH2	2.20	0.56
3:3:37:SER:HB2	3:3:49:VAL:C	2.31	0.56
3:3:152:PHE:HA	3:h:151:THR:O	2.06	0.56
3:3:195:VAL:HA	3:3:203:GLU:O	2.06	0.56
5:5:23:ILE:HG22	5:5:190:ILE:HD11	1.88	0.56
6:6:49:GLU:O	6:6:53:THR:N	2.24	0.56
6:6:108:ASP:CG	6:6:111:LYS:H	2.14	0.56
6:6:195:PHE:HA	6:6:198:GLN:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:234:ARG:HH21	7:7:281:SER:HB2	1.71	0.56
9:B:179:TRP:HB3	10:C:56:LEU:HD11	1.87	0.56
10:C:45:VAL:HG21	10:C:189:ALA:HB3	1.88	0.56
10:C:141:ASP:CG	10:C:144:TYR:H	2.13	0.56
14:G:39:GLY:N	14:G:163:ALA:O	2.32	0.56
14:G:54:ILE:HD11	14:G:213:GLU:HB2	1.86	0.56
14:G:174:ALA:O	14:G:178:LYS:N	2.28	0.56
15:H:147:ILE:HG22	15:H:177:ASP:OD2	2.05	0.56
15:H:238:LEU:HD22	20:M:402:ALA:HB3	1.88	0.56
15:H:380:PRO:HB3	15:H:388:ILE:HD12	1.88	0.56
16:I:320:GLY:HA2	16:I:323:LYS:HE2	1.87	0.56
18:K:332:GLY:N	18:K:335:ASP:OD1	2.38	0.56
19:L:66:GLU:HG2	19:L:69:ARG:HH21	1.69	0.56
19:L:187:THR:HA	19:L:190:ILE:HD12	1.87	0.56
19:L:318:LEU:HB3	19:L:321:THR:O	2.06	0.56
19:L:397:GLU:HB2	19:L:418:ALA:HB1	1.87	0.56
21:N:90:ASP:OD1	21:N:91:ILE:N	2.39	0.56
21:N:114:SER:O	21:N:118:THR:N	2.34	0.56
21:N:124:TYR:HE2	21:N:164:ASP:CG	2.12	0.56
21:N:545:SER:O	21:N:549:TYR:N	2.20	0.56
21:N:761:ILE:HG23	21:N:766:GLN:HG2	1.88	0.56
22:O:212:GLN:NE2	22:O:216:ASP:OD1	2.38	0.56
23:P:147:LYS:NZ	23:P:155:GLU:OE2	2.36	0.56
23:P:353:ILE:HG23	23:P:357:TYR:CE2	2.41	0.56
23:P:431:HIS:HA	29:V:230:TYR:CD2	2.40	0.56
24:Q:85:MET:O	24:Q:89:ALA:N	2.38	0.56
25:R:379:CYS:SG	25:R:388:VAL:HG13	2.46	0.56
26:S:156:VAL:HA	26:S:188:TYR:HE1	1.71	0.56
26:S:218:LEU:HA	26:S:230:LYS:HZ1	1.71	0.56
27:T:47:GLN:HB2	27:T:50:ILE:HG12	1.87	0.56
28:U:60:GLU:HG3	28:U:100:ARG:HD3	1.86	0.56
28:U:69:ASP:CG	28:U:71:ASN:H	2.13	0.56
29:V:206:THR:O	29:V:210:THR:OG1	2.17	0.56
32:Y:84:TYR:HA	32:Y:87:GLU:OE1	2.04	0.56
33:Z:156:HIS:O	33:Z:160:GLU:HG2	2.05	0.56
33:Z:225:LEU:HD21	33:Z:253:VAL:HG13	1.86	0.56
33:Z:306:MET:HE2	33:Z:973:TYR:HB3	1.86	0.56
33:Z:762:GLY:HA3	33:Z:789:GLN:HG2	1.88	0.56
33:Z:804:ASP:OD2	33:Z:806:GLU:HB2	2.05	0.56
8:a:135:ARG:NH1	14:g:15:PHE:CZ	2.74	0.56
9:b:190:HIS:O	9:b:194:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:192:ALA:O	9:b:196:LEU:N	2.21	0.56
10:c:92:ARG:NH1	5:j:76:LEU:HB3	2.20	0.56
11:d:122:GLN:HB3	12:e:136:ARG:NH2	2.21	0.56
12:e:85:ALA:O	12:e:89:ILE:HG12	2.06	0.56
13:f:187:ASP:HB3	13:f:191:LYS:HZ3	1.70	0.56
3:h:120:GLY:O	3:h:128:GLU:N	2.37	0.56
4:i:63:LEU:HG	4:i:73:ALA:HB2	1.88	0.56
5:j:17:GLY:N	5:j:20:CYS:O	2.38	0.56
5:j:27:LEU:HG	5:j:185:ALA:HA	1.86	0.56
6:k:47:ALA:N	6:k:101:ASN:O	2.39	0.56
1:1:32:LEU:N	1:1:43:ALA:O	2.18	0.56
1:1:117:TYR:HH	7:l:130:TRP:NE1	2.04	0.56
1:1:144:PHE:CD1	1:1:150:TYR:HB3	2.41	0.56
4:4:93:GLU:CD	9:B:104:TYR:HH	2.13	0.56
6:6:51:GLY:CA	7:7:166:LYS:HZ2	2.18	0.56
1:8:119:LYS:HB3	1:8:123:PRO:HA	1.86	0.56
9:B:111:VAL:HG21	9:B:148:TYR:CD2	2.41	0.56
11:D:134:LEU:HD23	11:D:149:GLN:HA	1.87	0.56
13:F:64:ILE:HD12	13:F:72:LEU:HD11	1.88	0.56
16:I:118:ALA:N	16:I:130:VAL:O	2.38	0.56
16:I:310:LEU:CD1	16:I:338:LEU:HA	2.33	0.56
17:J:147:TYR:HA	17:J:197:LEU:HD21	1.88	0.56
17:J:257:ARG:HH12	17:J:296:ARG:NH1	2.02	0.56
17:J:375:ILE:HG13	25:R:204:TRP:CZ3	2.41	0.56
19:L:197:ILE:HG12	19:L:218:VAL:HG11	1.88	0.56
20:M:147:GLY:N	20:M:159:LEU:HG	2.20	0.56
21:N:43:LEU:O	21:N:47:GLU:HG2	2.06	0.56
21:N:421:ASP:O	21:N:425:ASN:N	2.34	0.56
21:N:875:LEU:HD23	21:N:877:GLN:HB2	1.88	0.56
22:O:29:PHE:O	22:O:33:TYR:N	2.38	0.56
22:O:332:ILE:O	22:O:335:GLY:N	2.36	0.56
24:Q:14:LEU:HB2	24:Q:23:ALA:HB2	1.87	0.56
24:Q:358:GLU:H	24:Q:361:HIS:CE1	2.24	0.56
25:R:141:TYR:CE2	25:R:149:ASN:HB2	2.41	0.56
26:S:19:HIS:HB2	26:S:27:GLU:CB	2.35	0.56
26:S:314:ASN:HA	26:S:317:HIS:HB3	1.88	0.56
28:U:166:ALA:HB1	29:V:38:LEU:HB3	1.88	0.56
28:U:234:ASN:O	28:U:259:ASN:ND2	2.38	0.56
29:V:111:HIS:HD2	29:V:141:VAL:H	1.52	0.56
29:V:259:LYS:HG2	29:V:263:GLU:OE2	2.05	0.56
30:W:5:ALA:HB3	30:W:101:ARG:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:14:VAL:O	31:X:29:VAL:HG21	2.05	0.56
33:Z:233:LEU:HD13	33:Z:264:PHE:HB3	1.88	0.56
33:Z:319:THR:O	33:Z:322:GLU:HG2	2.05	0.56
33:Z:374:LEU:HD13	33:Z:379:GLN:HB3	1.88	0.56
33:Z:547:MET:HG3	33:Z:551:LEU:HD12	1.87	0.56
8:a:36:ASN:O	8:a:39:ASN:N	2.35	0.56
9:b:111:VAL:HG21	9:b:148:TYR:CD2	2.41	0.56
11:d:32:CYS:O	11:d:47:GLU:HG2	2.05	0.56
12:e:47:VAL:C	12:e:48:LEU:HD12	2.30	0.56
12:e:205:LYS:NZ	12:e:211:LYS:HG3	2.21	0.56
13:f:116:ALA:HA	13:f:119:ASN:HD22	1.70	0.56
14:g:37:SER:O	14:g:165:THR:N	2.35	0.56
14:g:169:ARG:O	14:g:173:LYS:HG3	2.06	0.56
5:j:56:LEU:O	5:j:60:VAL:HG23	2.06	0.56
5:j:72:ASN:O	5:j:76:LEU:N	2.26	0.56
6:k:96:ARG:NH1	7:l:166:LYS:HD3	2.21	0.56
7:l:234:ARG:HH21	7:l:281:SER:HB2	1.71	0.56
1:1:51:ASP:O	4:4:196:LEU:HD12	2.06	0.56
2:2:218:TYR:CZ	2:2:226:ARG:HB2	2.40	0.56
3:3:20:THR:O	3:3:148:SER:OG	2.23	0.56
1:8:127:HIS:NE2	1:8:143:SER:HB2	2.20	0.56
8:A:14:ARG:HG2	8:A:26:TYR:CD1	2.41	0.56
9:B:136:ILE:N	9:B:148:TYR:O	2.37	0.56
10:C:43:GLY:HA2	10:C:146:TYR:CE1	2.41	0.56
11:D:163:THR:HG23	11:D:168:SER:HB2	1.87	0.56
12:E:109:VAL:O	12:E:113:THR:N	2.20	0.56
13:F:204:GLU:OE2	13:F:210:ASN:ND2	2.39	0.56
14:G:90:ASN:HA	14:G:93:ARG:HB2	1.88	0.56
14:G:185:GLU:HG3	14:G:186:GLY:N	2.21	0.56
14:G:237:GLN:HE21	14:G:241:ASP:CG	2.14	0.56
15:H:160:GLY:O	15:H:162:ARG:HG2	2.06	0.56
16:I:422:ARG:HB3	17:J:307:PRO:HD2	1.86	0.56
18:K:327:ALA:HA	18:K:330:ARG:HG3	1.88	0.56
19:L:111:GLU:HA	19:L:117:TYR:HD1	1.70	0.56
20:M:74:GLN:HG2	20:M:77:TYR:CE2	2.41	0.56
20:M:299:ARG:O	20:M:303:ARG:N	2.19	0.56
21:N:13:LEU:HD21	21:N:45:ASP:HB2	1.87	0.56
21:N:36:TRP:CE2	21:N:71:ASN:HB3	2.41	0.56
21:N:109:TYR:HD1	21:N:133:LEU:HG	1.70	0.56
21:N:163:LEU:O	21:N:167:GLU:N	2.37	0.56
21:N:542:SER:HB3	21:N:548:ARG:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:762:ARG:HB3	21:N:907:ASP:HB2	1.88	0.56
22:O:4:ASN:HD21	22:O:39:PHE:CB	2.19	0.56
22:O:15:ARG:O	22:O:17:GLU:HG3	2.01	0.56
23:P:6:ASP:O	23:P:10:SER:N	2.23	0.56
23:P:353:ILE:HG23	23:P:357:TYR:CD2	2.41	0.56
23:P:438:ILE:O	23:P:441:GLY:N	2.39	0.56
24:Q:146:TYR:HA	24:Q:151:TYR:HE1	1.71	0.56
24:Q:174:LEU:HG	24:Q:178:HIS:HE1	1.70	0.56
24:Q:178:HIS:HB3	24:Q:197:SER:O	2.06	0.56
24:Q:185:TYR:O	24:Q:189:ARG:N	2.39	0.56
24:Q:413:LEU:HD11	25:R:406:GLN:OE1	2.04	0.56
25:R:60:ALA:O	25:R:63:TYR:N	2.39	0.56
26:S:206:GLN:HA	26:S:209:ILE:HD12	1.88	0.56
27:T:33:GLU:HB3	27:T:37:ASN:ND2	2.21	0.56
27:T:91:SER:OG	27:T:94:HIS:HB2	2.06	0.56
28:U:21:HIS:HB3	28:U:33:CYS:SG	2.45	0.56
30:W:8:LEU:HD22	30:W:33:VAL:HG11	1.88	0.56
30:W:162:ASN:HA	30:W:168:THR:CB	2.36	0.56
33:Z:137:TYR:O	33:Z:141:SER:N	2.39	0.56
33:Z:141:SER:O	33:Z:206:ASP:HB2	2.05	0.56
33:Z:390:LEU:O	33:Z:859:LYS:N	2.34	0.56
9:b:108:LYS:HG3	9:b:109:LEU:N	2.20	0.56
10:c:42:ASP:OD2	10:c:185:LYS:HG3	2.06	0.56
13:f:50:LYS:HE2	13:f:212:SER:HB2	1.88	0.56
13:f:176:LEU:HD22	14:g:57:LYS:HB3	1.87	0.56
14:g:95:GLU:CG	14:g:115:ARG:HH11	2.19	0.56
4:i:44:ALA:HB2	4:i:204:VAL:HG22	1.88	0.56
4:i:172:LYS:HE2	4:i:175:LEU:HD23	1.88	0.56
6:k:108:ASP:CG	6:k:111:LYS:H	2.14	0.56
1:1:214:HIS:CD2	1:1:217:VAL:HG23	2.36	0.56
2:2:266:ILE:OXT	3:3:204:ARG:NH2	2.39	0.56
3:3:106:TYR:HA	3:3:109:LYS:HE3	1.88	0.56
3:3:159:LYS:HZ3	3:h:176:HIS:HD2	1.53	0.56
6:6:42:THR:HA	6:6:106:GLY:HA2	1.88	0.56
6:6:174:MET:HA	6:k:174:MET:HA	1.86	0.56
7:7:272:PHE:O	7:7:276:LYS:N	2.36	0.56
1:8:82:ALA:O	1:8:85:LYS:HB3	2.06	0.56
1:8:214:HIS:NE2	1:8:216:GLN:HB2	2.20	0.56
8:A:63:LEU:O	14:G:161:LYS:N	2.39	0.56
8:A:198:SER:OG	8:A:201:LYS:HG2	2.06	0.56
9:B:92:VAL:O	9:B:96:SER:N	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:190:HIS:O	9:B:194:LEU:HG	2.06	0.56
10:C:208:TYR:CG	10:C:236:LYS:HB2	2.40	0.56
12:E:70:ILE:H	12:E:75:GLY:HA2	1.69	0.56
12:E:144:ILE:O	12:E:156:PHE:N	2.39	0.56
13:F:6:TYR:CG	13:F:15:PRO:HD3	2.41	0.56
13:F:11:VAL:HG23	14:G:130:ARG:HB3	1.88	0.56
14:G:87:HIS:CD2	14:G:132:PHE:CE2	2.80	0.56
14:G:194:LYS:HB3	14:G:242:PHE:CD1	2.40	0.56
16:I:377:LEU:O	16:I:381:VAL:N	2.29	0.56
16:I:383:THR:CB	16:I:420:LYS:HZ1	2.17	0.56
17:J:271:THR:O	17:J:274:GLU:HB3	2.05	0.56
19:L:263:ILE:HD12	19:L:307:GLU:OE1	2.06	0.56
19:L:327:THR:HG21	19:L:330:PRO:HA	1.87	0.56
20:M:21:GLU:HB3	30:W:73:LEU:HD13	1.88	0.56
20:M:274:ALA:HA	20:M:275:PRO:C	2.29	0.56
21:N:612:SER:N	21:N:618:ARG:HE	2.04	0.56
21:N:660:LEU:O	21:N:663:ILE:N	2.36	0.56
21:N:732:GLY:N	21:N:751:LEU:HD12	2.21	0.56
21:N:784:TYR:CB	21:N:873:ARG:HE	2.18	0.56
21:N:920:VAL:HA	21:N:923:MET:SD	2.46	0.56
22:O:34:GLU:HG2	22:O:36:LYS:HD2	1.88	0.56
22:O:91:ASP:OD1	22:O:92:PHE:N	2.35	0.56
22:O:173:SER:O	22:O:177:GLN:HG3	2.06	0.56
22:O:267:ASP:O	22:O:270:ILE:HG12	2.05	0.56
24:Q:93:THR:O	24:Q:97:LEU:N	2.27	0.56
24:Q:219:ASP:O	24:Q:238:TYR:HB3	2.06	0.56
24:Q:227:CYS:SG	24:Q:330:LEU:HD11	2.47	0.56
24:Q:409:TYR:HE2	25:R:402:LEU:HB2	1.70	0.56
25:R:188:LYS:HB2	25:R:217:HIS:ND1	2.21	0.56
25:R:304:TYR:HA	25:R:307:TYR:CG	2.41	0.56
25:R:372:ILE:H	26:S:395:ILE:HG22	1.70	0.56
26:S:156:VAL:HG22	26:S:188:TYR:CD1	2.41	0.56
26:S:293:ILE:HD13	26:S:317:HIS:HA	1.88	0.56
26:S:330:LEU:HA	26:S:333:PHE:CD1	2.41	0.56
27:T:152:LEU:HA	27:T:157:TYR:HE1	1.71	0.56
28:U:167:GLU:HA	29:V:35:LEU:HD22	1.87	0.56
30:W:180:LEU:O	30:W:184:ASN:N	2.31	0.56
31:X:14:VAL:HG21	31:X:62:ASP:HB2	1.88	0.56
33:Z:415:MET:CG	33:Z:447:VAL:HG22	2.36	0.56
33:Z:428:TRP:NE1	33:Z:460:SER:O	2.38	0.56
33:Z:818:CYS:HB2	33:Z:830:LEU:CD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:852:GLN:HA	33:Z:855:LEU:HB3	1.87	0.56
8:a:49:ASP:OD1	8:a:50:CYS:N	2.39	0.56
10:c:238:ILE:HG13	10:c:242:THR:HG23	1.87	0.56
11:d:37:LYS:HB3	11:d:42:VAL:HG22	1.88	0.56
12:e:196:ALA:HA	12:e:199:LEU:HB2	1.87	0.56
3:h:195:VAL:HA	3:h:203:GLU:O	2.06	0.56
4:i:233:LYS:HB2	5:j:155:GLU:OE2	2.05	0.56
6:k:137:GLY:HA3	6:k:141:PHE:CZ	2.41	0.56
6:k:143:LEU:HD22	6:k:147:HIS:HE1	1.70	0.56
7:l:250:VAL:HB	7:l:266:HIS:HB2	1.88	0.56
7:l:276:LYS:HZ2	7:l:285:VAL:CB	2.19	0.56
1:1:127:HIS:NE2	1:1:143:SER:HB2	2.20	0.55
2:2:51:ASN:O	2:2:235:LYS:HG2	2.07	0.55
3:3:106:TYR:HD2	3:3:107:GLU:OE2	1.89	0.55
4:4:49:SER:N	4:4:57:ASP:O	2.32	0.55
4:4:195:ASP:HB3	4:4:198:SER:HB2	1.88	0.55
4:4:225:ARG:NH1	5:5:151:GLU:HG3	2.21	0.55
5:5:56:LEU:O	5:5:60:VAL:HG23	2.06	0.55
6:6:139:TYR:OH	6:k:25:ILE:O	2.24	0.55
6:6:162:LYS:HZ2	6:6:198:GLN:H	1.53	0.55
7:7:145:GLU:OE2	11:D:111:ARG:NH2	2.38	0.55
7:7:250:VAL:HB	7:7:266:HIS:HB2	1.88	0.55
2:9:117:GLU:CD	2:9:117:GLU:H	2.14	0.55
2:9:218:TYR:HA	2:9:224:SER:OG	2.06	0.55
2:9:252:TRP:CZ3	3:h:190:GLY:HA2	2.41	0.55
9:B:147:LEU:HG	9:B:159:TRP:HB2	1.88	0.55
12:E:165:TYR:CB	13:F:57:SER:HB2	2.35	0.55
14:G:198:LYS:NZ	14:G:199:ILE:HG13	2.21	0.55
16:I:130:VAL:HG23	16:I:156:ILE:HG13	1.87	0.55
16:I:186:GLY:O	16:I:357:THR:HB	2.06	0.55
16:I:423:VAL:HG13	17:J:306:ARG:HD3	1.88	0.55
17:J:43:ARG:NH1	26:S:476:LEU:C	2.59	0.55
18:K:98:GLN:N	18:K:111:SER:HB2	2.17	0.55
18:K:269:ILE:O	18:K:315:ILE:N	2.34	0.55
18:K:349:ARG:HH21	18:K:377:SER:N	2.04	0.55
19:L:117:TYR:HB2	19:L:129:VAL:HG23	1.88	0.55
19:L:263:ILE:HG22	19:L:311:GLN:HE22	1.71	0.55
20:M:220:MET:HE3	20:M:324:LEU:HD21	1.86	0.55
20:M:284:ASP:OD1	20:M:331:ASP:N	2.37	0.55
20:M:392:LYS:HG2	20:M:396:VAL:HG23	1.88	0.55
21:N:406:TYR:CZ	21:N:410:LEU:HD21	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:591:LEU:HB3	21:N:595:LEU:HD12	1.88	0.55
22:O:319:LEU:HD21	22:O:327:LEU:HD12	1.88	0.55
23:P:80:THR:HG22	23:P:84:LYS:HE3	1.87	0.55
23:P:107:SER:C	23:P:108:LYS:HZ2	2.09	0.55
24:Q:363:SER:HB3	24:Q:368:LEU:O	2.07	0.55
25:R:288:SER:HB2	25:R:311:THR:OG1	2.06	0.55
27:T:26:LEU:O	27:T:29:PRO:HD2	2.06	0.55
27:T:190:ALA:HB1	27:T:226:TRP:CH2	2.41	0.55
27:T:222:LEU:C	27:T:225:ASN:H	2.13	0.55
29:V:36:LYS:HE2	29:V:69:PHE:HA	1.88	0.55
29:V:55:GLY:H	29:V:102:GLN:HB3	1.70	0.55
31:X:14:VAL:C	31:X:29:VAL:HG21	2.31	0.55
31:X:17:TYR:CE1	31:X:66:LEU:HD22	2.40	0.55
9:b:43:VAL:O	9:b:214:ILE:N	2.36	0.55
10:c:35:ALA:HA	10:c:48:ALA:HA	1.88	0.55
13:f:6:TYR:CG	13:f:15:PRO:HD3	2.41	0.55
14:g:185:GLU:HG3	14:g:186:GLY:N	2.21	0.55
14:g:198:LYS:NZ	14:g:199:ILE:HG13	2.21	0.55
14:g:237:GLN:HE21	14:g:241:ASP:CG	2.14	0.55
3:h:26:THR:HG22	3:h:31:VAL:HB	1.87	0.55
7:l:172:MET:N	7:l:192:SER:HB3	2.20	0.55
2:2:117:GLU:CD	2:2:117:GLU:H	2.14	0.55
2:2:218:TYR:HA	2:2:224:SER:OG	2.05	0.55
4:4:244:GLU:HA	5:5:198:ARG:HA	1.88	0.55
6:6:143:LEU:HD22	6:6:147:HIS:HE1	1.70	0.55
7:7:255:VAL:HA	7:7:260:TRP:HA	1.89	0.55
1:8:132:GLY:HA2	1:8:226:VAL:HG11	1.86	0.55
2:9:179:PHE:HE2	2:9:217:LEU:HA	1.71	0.55
9:B:20:GLN:O	9:B:24:ALA:N	2.39	0.55
11:D:133:THR:OG1	11:D:150:THR:OG1	2.06	0.55
11:D:225:SER:N	11:D:228:GLU:OE1	2.36	0.55
12:E:85:ALA:O	12:E:89:ILE:HG12	2.06	0.55
13:F:50:LYS:HE2	13:F:212:SER:HB2	1.88	0.55
13:F:80:ASP:O	13:F:84:LEU:HG	2.06	0.55
13:F:94:TYR:CZ	13:F:98:VAL:HG21	2.41	0.55
13:F:179:PHE:O	13:F:182:ILE:N	2.38	0.55
13:F:193:GLY:O	13:F:197:ILE:N	2.28	0.55
13:F:231:ALA:HA	13:F:234:ILE:HD12	1.88	0.55
15:H:145:TYR:HB3	15:H:168:ILE:HG22	1.87	0.55
15:H:303:ALA:N	15:H:348:ASN:HB3	2.20	0.55
17:J:304:LEU:HA	17:J:309:ARG:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:318:PRO:HD2	17:J:319:PRO:CA	2.20	0.55
18:K:63:LEU:O	18:K:66:ASP:N	2.40	0.55
18:K:69:LYS:HG3	18:K:70:ASP:OD1	2.06	0.55
18:K:154:SER:HB2	18:K:161:MET:HE1	1.89	0.55
18:K:240:SER:O	19:L:256:ILE:HD11	2.06	0.55
18:K:251:PRO:HB3	18:K:298:GLU:HG2	1.89	0.55
19:L:81:ILE:HD11	20:M:18:LEU:HD13	1.88	0.55
19:L:221:TYR:HA	19:L:228:LYS:HZ2	1.71	0.55
20:M:145:LEU:HD12	20:M:160:PRO:O	2.06	0.55
20:M:357:ARG:HB3	20:M:391:LEU:HD11	1.87	0.55
21:N:225:LEU:HA	21:N:228:VAL:HB	1.89	0.55
21:N:543:ASP:OD1	21:N:544:GLU:N	2.38	0.55
22:O:167:ILE:HG23	22:O:168:THR:N	2.20	0.55
22:O:191:THR:O	22:O:195:TYR:N	2.36	0.55
23:P:285:GLN:O	23:P:288:ASN:HA	2.06	0.55
23:P:321:VAL:HG21	23:P:327:LEU:HD23	1.88	0.55
23:P:390:TYR:HB3	23:P:403:GLU:CB	2.29	0.55
25:R:422:ARG:NH1	28:U:299:LYS:HE2	2.21	0.55
26:S:317:HIS:CE1	26:S:321:GLN:HE22	2.25	0.55
27:T:174:PHE:O	27:T:176:SER:N	2.39	0.55
29:V:33:ALA:HB2	29:V:67:ASP:HA	1.88	0.55
33:Z:150:GLY:HA3	33:Z:154:ILE:HD12	1.87	0.55
33:Z:761:PHE:CE2	33:Z:783:VAL:HG11	2.41	0.55
9:b:20:GLN:O	9:b:24:ALA:N	2.39	0.55
10:c:149:TYR:CE2	11:d:59:ILE:HB	2.41	0.55
10:c:214:ALA:HA	10:c:229:ILE:HA	1.86	0.55
11:d:163:THR:HG23	11:d:168:SER:HB2	1.87	0.55
11:d:226:SER:HA	11:d:229:ILE:HD12	1.87	0.55
12:e:76:CYS:HB2	12:e:143:LEU:O	2.06	0.55
13:f:80:ASP:O	13:f:84:LEU:HG	2.06	0.55
14:g:77:VAL:HG13	14:g:137:ILE:HB	1.88	0.55
14:g:109:ILE:O	14:g:113:ALA:N	2.39	0.55
14:g:174:ALA:O	14:g:178:LYS:N	2.28	0.55
3:h:24:ALA:O	3:h:144:ALA:N	2.24	0.55
5:j:85:GLU:H	5:j:85:GLU:CD	2.13	0.55
7:l:255:VAL:HA	7:l:260:TRP:HA	1.88	0.55
1:1:208:THR:O	1:1:212:GLU:HG2	2.07	0.55
2:2:231:ALA:HA	2:2:241:PHE:HA	1.88	0.55
3:3:93:SER:OG	3:3:96:THR:N	2.35	0.55
1:8:28:GLY:HA3	1:8:49:ILE:CD1	2.36	0.55
2:9:160:LEU:O	2:9:171:SER:OG	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:161:ALA:HB3	10:C:56:LEU:HD23	1.87	0.55
10:C:119:LYS:HZ2	10:C:152:ASN:N	2.04	0.55
10:C:186:VAL:O	10:C:190:ILE:N	2.27	0.55
10:C:191:GLU:HG3	10:C:242:THR:HB	1.89	0.55
14:G:12:ASN:ND2	14:G:129:VAL:HG23	2.21	0.55
15:H:97:LEU:HB3	15:H:177:ASP:HA	1.86	0.55
15:H:150:LYS:O	15:H:154:LYS:HB2	2.06	0.55
15:H:404:TRP:HH2	15:H:443:PHE:CE1	2.24	0.55
16:I:106:ILE:HB	17:J:93:LYS:O	2.06	0.55
16:I:248:VAL:HG22	16:I:282:ASP:OD2	2.06	0.55
16:I:369:MET:HB2	16:I:396:CYS:HB3	1.87	0.55
16:I:400:GLY:O	16:I:404:LEU:N	2.24	0.55
18:K:169:VAL:HG21	18:K:224:LYS:HE3	1.88	0.55
18:K:318:THR:HG23	18:K:320:ARG:C	2.31	0.55
18:K:392:LEU:O	18:K:396:ARG:N	2.35	0.55
19:L:277:ILE:HD13	19:L:322:LYS:HB2	1.87	0.55
20:M:219:LEU:N	20:M:345:ARG:O	2.36	0.55
21:N:94:LYS:HG3	21:N:99:GLU:CD	2.31	0.55
21:N:340:HIS:HB2	21:N:374:ILE:HG12	1.86	0.55
21:N:361:ASN:HB3	21:N:399:PHE:CE2	2.42	0.55
21:N:510:HIS:NE2	29:V:59:ASP:OD2	2.39	0.55
22:O:5:HIS:HE1	22:O:31:LYS:N	2.04	0.55
22:O:83:LEU:HD23	22:O:98:TYR:CE1	2.41	0.55
23:P:109:SER:N	23:P:112:LEU:HG	2.21	0.55
23:P:143:LEU:O	23:P:147:LYS:N	2.24	0.55
23:P:435:LYS:HG2	23:P:439:MET:HE2	1.89	0.55
24:Q:99:THR:HG23	24:Q:103:LYS:NZ	2.20	0.55
24:Q:134:LYS:O	24:Q:138:SER:N	2.35	0.55
24:Q:230:LYS:HG3	24:Q:232:TYR:CE1	2.41	0.55
24:Q:409:TYR:HB3	25:R:399:GLN:HG3	1.88	0.55
25:R:373:PRO:CD	26:S:395:ILE:HG23	2.11	0.55
26:S:347:HIS:HA	26:S:350:LYS:HB3	1.89	0.55
26:S:390:THR:HG23	26:S:394:ILE:HD11	1.88	0.55
26:S:485:LYS:HD2	28:U:299:LYS:HE3	1.88	0.55
27:T:105:LEU:O	27:T:109:TYR:N	2.38	0.55
28:U:141:GLU:N	28:U:153:THR:CA	2.69	0.55
28:U:173:HIS:C	28:U:176:ARG:HH12	2.14	0.55
29:V:254:ARG:HG3	29:V:287:THR:OG1	2.04	0.55
30:W:20:ASP:N	30:W:25:ARG:HB2	2.22	0.55
30:W:52:ILE:HD12	30:W:90:ALA:HB1	1.87	0.55
33:Z:117:ASP:HB2	33:Z:144:SER:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:115:ASP:OD1	8:a:116:VAL:N	2.39	0.55
8:a:200:GLU:H	8:a:200:GLU:CD	2.11	0.55
3:h:93:SER:OG	3:h:96:THR:N	2.35	0.55
4:i:195:ASP:HB3	4:i:198:SER:HB2	1.88	0.55
6:k:108:ASP:OD1	6:k:110:LYS:N	2.39	0.55
4:4:215:TYR:O	9:B:226:GLY:HA3	2.07	0.55
5:5:66:MET:HG2	5:5:70:LYS:HE3	1.87	0.55
6:6:137:GLY:HA3	6:6:141:PHE:CZ	2.41	0.55
6:6:146:HIS:HA	7:l:234:ARG:HH21	1.70	0.55
6:6:165:VAL:HG12	6:6:169:GLU:OE2	2.06	0.55
7:7:123:GLY:H	7:7:171:SER:C	2.12	0.55
8:A:145:SER:HA	8:A:228:ALA:HB1	1.87	0.55
14:G:95:GLU:CG	14:G:115:ARG:HH11	2.19	0.55
16:I:172:LYS:CE	16:I:234:LYS:HZ1	2.19	0.55
16:I:362:LEU:HD21	16:I:384:LYS:HZ1	1.70	0.55
17:J:89:GLN:OE1	17:J:112:ARG:NH1	2.32	0.55
17:J:171:PRO:HA	17:J:181:GLN:OE1	2.04	0.55
18:K:56:LYS:NZ	21:N:196:THR:HG22	2.21	0.55
19:L:265:GLU:HA	19:L:268:ALA:HB3	1.87	0.55
20:M:196:ALA:HB2	20:M:345:ARG:HG3	1.89	0.55
20:M:348:GLU:HB2	20:M:350:PRO:HD3	1.87	0.55
21:N:138:GLU:HA	21:N:141:ILE:HB	1.88	0.55
21:N:655:ALA:O	21:N:659:ALA:N	2.26	0.55
22:O:84:ALA:O	22:O:87:LYS:HB3	2.06	0.55
22:O:106:PHE:N	22:O:110:ASP:OD1	2.40	0.55
22:O:338:LYS:CB	22:O:351:SER:HB2	2.37	0.55
22:O:381:GLY:HA2	22:O:384:MET:HE3	1.89	0.55
23:P:94:GLN:OE1	23:P:130:ILE:HD12	2.06	0.55
23:P:180:ILE:O	23:P:184:MET:HG3	2.06	0.55
24:Q:14:LEU:O	24:Q:19:GLN:N	2.38	0.55
24:Q:401:GLU:HG2	24:Q:402:THR:H	1.71	0.55
25:R:176:ARG:HA	25:R:243:LEU:CD2	2.35	0.55
25:R:207:ARG:C	25:R:211:LYS:NZ	2.64	0.55
25:R:229:LYS:HG2	25:R:233:ASP:OD2	2.06	0.55
25:R:307:TYR:HD1	25:R:310:GLU:OE1	1.90	0.55
25:R:334:ARG:NH2	25:R:364:LEU:O	2.36	0.55
26:S:337:ASN:O	26:S:339:GLN:HG2	2.06	0.55
29:V:111:HIS:NE2	29:V:118:LEU:HD13	2.21	0.55
30:W:15:TYR:O	30:W:18:ASN:N	2.34	0.55
30:W:139:VAL:HG11	30:W:157:PHE:HE2	1.71	0.55
33:Z:574:TYR:HB2	33:Z:581:VAL:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:737:ALA:HB1	33:Z:775:MET:HB2	1.89	0.55
33:Z:875:LYS:HA	33:Z:878:LEU:HB3	1.88	0.55
8:a:147:ASP:O	8:a:151:GLY:N	2.31	0.55
10:c:101:THR:HA	6:k:86:GLN:OE1	2.06	0.55
10:c:181:LYS:NZ	10:c:184:MET:HG2	2.21	0.55
12:e:16:SER:OG	12:e:20:ARG:N	2.39	0.55
12:e:201:LEU:HD12	12:e:212:LEU:HD11	1.89	0.55
13:f:11:VAL:HG21	14:g:128:SER:HA	1.87	0.55
13:f:14:SER:OG	13:f:18:ARG:N	2.39	0.55
14:g:126:TYR:O	14:g:129:VAL:CG2	2.54	0.55
5:j:51:LEU:HD21	5:j:53:ILE:HD11	1.89	0.55
1:1:82:ALA:O	1:1:85:LYS:HB3	2.06	0.55
1:1:206:SER:O	1:1:210:ALA:N	2.28	0.55
2:2:80:ASP:OD1	2:2:81:ASN:N	2.38	0.55
3:3:162:ARG:NH2	3:3:165:MET:HG2	2.20	0.55
5:5:62:THR:HA	6:6:85:ARG:NH2	2.21	0.55
6:6:1:MET:HE2	6:6:47:ALA:HB1	1.88	0.55
6:6:162:LYS:HZ1	6:6:198:GLN:H	1.50	0.55
7:7:125:ALA:N	1:8:149:SER:HB2	2.22	0.55
7:7:241:HIS:HA	5:j:205:ASP:HA	1.89	0.55
2:9:113:LEU:HB2	2:9:118:GLU:HG2	1.87	0.55
9:B:43:VAL:O	9:B:214:ILE:N	2.36	0.55
9:B:140:ASP:OD1	9:B:140:ASP:N	2.38	0.55
12:E:205:LYS:NZ	12:E:211:LYS:HG3	2.21	0.55
13:F:117:GLN:HG2	14:G:87:HIS:HB2	1.87	0.55
14:G:43:ASN:HD21	14:G:188:SER:HA	1.72	0.55
14:G:77:VAL:HG13	14:G:137:ILE:HB	1.88	0.55
16:I:172:LYS:HZ3	16:I:234:LYS:CE	2.18	0.55
16:I:217:LYS:HZ1	16:I:313:LEU:HG	1.72	0.55
18:K:349:ARG:HH11	18:K:375:ASN:HB3	1.71	0.55
19:L:302:GLN:HE21	19:L:306:MET:HB2	1.71	0.55
20:M:27:THR:HA	20:M:30:LEU:HD12	1.87	0.55
20:M:82:VAL:HA	20:M:119:VAL:HG12	1.89	0.55
20:M:167:VAL:HG12	20:M:169:ALA:HB3	1.89	0.55
21:N:100:THR:O	21:N:104:LYS:N	2.26	0.55
21:N:599:TYR:HD1	21:N:632:LYS:NZ	2.05	0.55
21:N:651:PHE:HB2	21:N:694:LEU:HD13	1.88	0.55
22:O:5:HIS:CA	22:O:8:ASP:HB2	2.34	0.55
22:O:151:ASP:HA	22:O:154:GLU:HB3	1.88	0.55
22:O:187:SER:OG	22:O:188:PHE:N	2.39	0.55
23:P:80:THR:O	23:P:84:LYS:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:415:TRP:O	23:P:419:VAL:HG23	2.07	0.55
24:Q:7:LYS:O	24:Q:11:ALA:N	2.27	0.55
24:Q:65:TYR:O	24:Q:70:ALA:N	2.39	0.55
25:R:411:LEU:O	25:R:415:GLN:N	2.28	0.55
26:S:240:ASP:HA	26:S:243:ASN:ND2	2.20	0.55
26:S:258:GLU:HA	26:S:272:TYR:CZ	2.41	0.55
27:T:182:LYS:HA	27:T:185:ILE:HD12	1.88	0.55
29:V:52:LEU:HD13	29:V:69:PHE:CZ	2.41	0.55
30:W:131:THR:HA	30:W:134:LYS:HB2	1.89	0.55
33:Z:109:PRO:HA	33:Z:202:ARG:NH1	2.22	0.55
33:Z:445:PRO:HA	33:Z:448:LYS:HB2	1.88	0.55
33:Z:553:ARG:HA	33:Z:557:GLU:OE1	2.06	0.55
10:c:43:GLY:HA2	10:c:146:TYR:CE1	2.41	0.55
4:i:242:LEU:HG	5:j:201:LYS:N	2.21	0.55
5:j:21:VAL:HG22	5:j:112:ILE:HG13	1.89	0.55
5:j:161:GLU:CA	5:j:164:PHE:HB3	2.32	0.55
1:1:215:ILE:HG13	1:1:216:GLN:N	2.22	0.55
3:3:15:GLU:HB3	4:4:145:HIS:HB2	1.89	0.55
4:4:206:VAL:HB	4:4:214:GLU:CG	2.37	0.55
1:8:57:ARG:NH1	1:8:240:ARG:O	2.27	0.55
10:C:35:ALA:HA	10:C:48:ALA:HA	1.88	0.55
12:E:16:SER:OG	12:E:20:ARG:N	2.39	0.55
12:E:165:TYR:CE1	13:F:60:GLN:HB2	2.42	0.55
14:G:218:TRP:CD1	14:G:231:VAL:HG23	2.42	0.55
15:H:57:LYS:HZ2	16:I:135:PHE:HD1	1.54	0.55
15:H:222:ARG:HA	15:H:226:GLU:HB3	1.89	0.55
16:I:347:LYS:NZ	16:I:349:LEU:HB3	2.20	0.55
18:K:269:ILE:HG12	18:K:312:VAL:CG1	2.36	0.55
19:L:108:VAL:HG13	19:L:119:VAL:HG22	1.89	0.55
20:M:186:LEU:HD11	20:M:226:THR:HB	1.88	0.55
20:M:198:VAL:HA	20:M:239:THR:HG22	1.88	0.55
21:N:103:SER:O	21:N:106:ILE:N	2.40	0.55
21:N:581:ASP:O	21:N:584:ARG:N	2.38	0.55
21:N:732:GLY:H	21:N:751:LEU:HD12	1.71	0.55
21:N:768:ILE:O	21:N:917:ILE:HB	2.06	0.55
22:O:301:PHE:HB2	22:O:305:ILE:HA	1.89	0.55
23:P:107:SER:C	23:P:111:ASP:HB2	2.32	0.55
25:R:58:GLU:HB2	25:R:102:LEU:HD12	1.89	0.55
25:R:173:THR:O	25:R:177:LEU:N	2.32	0.55
26:S:164:ILE:HB	26:S:165:PRO:HD3	1.88	0.55
26:S:380:CYS:C	26:S:382:ARG:H	2.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:474:GLU:HA	26:S:477:VAL:CG2	2.36	0.55
27:T:43:ASP:OD2	27:T:50:ILE:HD13	2.07	0.55
27:T:139:ASP:HB3	27:T:142:LEU:HB2	1.88	0.55
27:T:211:PHE:HB3	27:T:216:GLU:OE1	2.06	0.55
28:U:30:ASN:HD21	28:U:31:LYS:NZ	2.05	0.55
28:U:174:LEU:HD11	29:V:210:THR:HA	1.88	0.55
29:V:140:VAL:O	29:V:153:ILE:HG13	2.07	0.55
29:V:257:GLU:OE1	29:V:287:THR:HG21	2.07	0.55
30:W:46:GLU:O	30:W:48:THR:HG23	2.06	0.55
31:X:15:CYS:SG	31:X:16:GLU:N	2.79	0.55
32:Y:85:LYS:HA	32:Y:88:ASN:ND2	2.22	0.55
33:Z:322:GLU:CD	33:Z:876:VAL:HG22	2.31	0.55
33:Z:374:LEU:HD11	33:Z:849:ARG:NH1	2.22	0.55
8:a:43:LEU:HD23	8:a:210:MET:HE3	1.88	0.55
8:a:198:SER:OG	8:a:201:LYS:HG2	2.06	0.55
10:c:119:LYS:HD3	10:c:153:PRO:HA	1.89	0.55
10:c:181:LYS:HZ3	10:c:184:MET:HG2	1.72	0.55
12:e:203:ILE:O	12:e:206:GLN:HB3	2.07	0.55
13:f:43:HIS:CD2	13:f:217:GLY:HA3	2.41	0.55
13:f:64:ILE:HD12	13:f:72:LEU:HD11	1.88	0.55
14:g:45:GLY:CA	14:g:146:ALA:HB2	2.36	0.55
14:g:126:TYR:CA	14:g:129:VAL:HG22	2.36	0.55
4:i:41:VAL:HG13	4:i:207:MET:HB2	1.89	0.55
4:i:177:LYS:HZ1	4:i:211:LYS:HZ3	1.54	0.55
1:1:169:LEU:O	1:1:172:GLN:N	2.40	0.55
1:1:241:ASP:HA	4:4:193:TRP:HA	1.89	0.55
5:5:21:VAL:HG22	5:5:112:ILE:HG13	1.89	0.55
7:7:94:ARG:NH2	5:j:205:ASP:O	2.30	0.55
1:8:32:LEU:HA	1:8:157:ALA:HA	1.89	0.55
2:9:96:ILE:HA	2:9:99:LEU:HD12	1.89	0.55
8:A:68:THR:HG21	14:G:159:GLY:CA	2.29	0.55
8:A:121:MET:O	8:A:124:LEU:HB2	2.07	0.55
9:B:36:GLY:HA2	9:B:45:ILE:HA	1.87	0.55
9:B:81:ASP:HB2	9:B:132:VAL:HG13	1.89	0.55
11:D:17:ILE:HD11	12:E:136:ARG:HD3	1.88	0.55
12:E:73:HIS:CD2	12:E:74:ILE:HG13	2.42	0.55
15:H:223:GLU:HG2	20:M:400:MET:HB3	1.88	0.55
17:J:56:ARG:O	17:J:60:ASP:N	2.35	0.55
18:K:51:LEU:HA	18:K:55:GLU:H	1.72	0.55
18:K:396:ARG:NH2	19:L:192:GLU:OE2	2.40	0.55
20:M:169:ALA:HB1	20:M:250:GLN:OE1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:225:GLY:O	20:M:388:GLY:N	2.40	0.55
20:M:235:CYS:HA	20:M:238:GLN:HB3	1.89	0.55
21:N:76:GLU:HG2	21:N:108:MET:HE3	1.89	0.55
22:O:106:PHE:CG	22:O:107:GLN:N	2.75	0.55
22:O:310:PHE:O	22:O:313:ILE:HB	2.07	0.55
23:P:55:SER:OG	23:P:58:VAL:HG23	2.06	0.55
23:P:258:LYS:HZ2	23:P:290:LEU:CD1	2.13	0.55
23:P:417:HIS:HA	23:P:420:ASP:CB	2.35	0.55
24:Q:64:LEU:O	24:Q:68:MET:N	2.39	0.55
25:R:158:LEU:HA	25:R:161:ALA:HB2	1.87	0.55
27:T:118:ASN:HB3	27:T:121:LYS:HZ3	1.71	0.55
28:U:152:LYS:HG2	28:U:153:THR:N	2.21	0.55
29:V:37:MET:SD	29:V:68:VAL:CG1	2.95	0.55
29:V:257:GLU:CD	29:V:287:THR:HG21	2.31	0.55
31:X:10:PHE:HE1	31:X:124:LYS:HB3	1.72	0.55
31:X:13:GLY:HA2	31:X:50:TRP:HE1	1.72	0.55
33:Z:253:VAL:HB	33:Z:254:PRO:HD3	1.89	0.55
33:Z:318:LYS:HB2	33:Z:874:ASN:CG	2.32	0.55
10:c:42:ASP:CG	10:c:186:VAL:H	2.15	0.55
10:c:141:ASP:CG	10:c:144:TYR:H	2.13	0.55
14:g:204:HIS:NE2	14:g:208:LYS:HA	2.22	0.55
3:h:106:TYR:HD2	3:h:107:GLU:OE2	1.89	0.55
4:i:49:SER:N	4:i:57:ASP:O	2.32	0.55
4:i:108:ALA:O	4:i:112:LEU:N	2.25	0.55
5:j:149:MET:O	5:j:153:LEU:N	2.27	0.55
6:k:42:THR:HA	6:k:106:GLY:HA2	1.88	0.55
7:l:243:ASP:HB3	7:l:246:SER:HB2	1.89	0.55
1:1:113:GLN:NE2	7:l:128:GLN:HG2	2.21	0.55
4:4:99:THR:HB	4:4:101:ARG:HH11	1.71	0.55
6:6:138:PHE:HA	7:l:210:PHE:CE1	2.41	0.55
1:8:47:ARG:HE	1:8:219:ASP:CG	2.15	0.55
1:8:92:LYS:HZ1	13:F:93:ASN:HB2	1.69	0.55
1:8:144:PHE:CD1	1:8:150:TYR:HB3	2.41	0.55
1:8:205:ASP:OD2	4:i:232:TYR:OH	2.21	0.55
1:8:215:ILE:HG13	1:8:216:GLN:N	2.22	0.55
2:9:51:ASN:O	2:9:235:LYS:HG2	2.07	0.55
2:9:231:ALA:HA	2:9:241:PHE:HA	1.88	0.55
8:A:43:LEU:HD23	8:A:210:MET:HE3	1.88	0.55
8:A:75:ILE:HG21	8:A:117:LEU:HD21	1.88	0.55
9:B:13:SER:OG	9:B:15:SER:OG	2.17	0.55
9:B:31:GLY:O	9:B:166:LYS:N	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:214:ALA:HB2	10:C:229:ILE:HG12	1.88	0.55
11:D:162:GLN:NE2	11:D:163:THR:H	2.05	0.55
12:E:182:GLU:O	12:E:186:GLU:N	2.23	0.55
13:F:120:THR:OG1	13:F:121:GLN:N	2.39	0.55
14:G:204:HIS:NE2	14:G:208:LYS:HA	2.22	0.55
16:I:119:ILE:HA	16:I:129:TYR:HA	1.86	0.55
17:J:251:ASP:HB3	17:J:293:ALA:O	2.07	0.55
18:K:136:SER:O	18:K:150:LEU:N	2.34	0.55
18:K:365:GLU:HG2	18:K:404:GLN:CB	2.35	0.55
18:K:365:GLU:O	18:K:404:GLN:HB2	2.06	0.55
19:L:72:ASP:HA	19:L:75:LYS:HZ1	1.71	0.55
19:L:318:LEU:HD13	19:L:322:LYS:HA	1.89	0.55
20:M:414:ASP:O	20:M:418:GLY:N	2.37	0.55
21:N:120:ASP:OD1	21:N:121:GLU:N	2.40	0.55
21:N:346:ASN:HB2	21:N:350:LYS:NZ	2.20	0.55
22:O:138:LEU:HD23	22:O:138:LEU:O	2.06	0.55
22:O:338:LYS:HZ2	22:O:353:VAL:N	2.04	0.55
22:O:367:LYS:NZ	28:U:201:GLN:NE2	2.55	0.55
23:P:417:HIS:HA	23:P:420:ASP:HB2	1.88	0.55
24:Q:11:ALA:O	24:Q:15:VAL:HG23	2.06	0.55
24:Q:122:ILE:O	24:Q:125:ALA:HB3	2.06	0.55
24:Q:415:LEU:HD21	29:V:261:LEU:HB2	1.89	0.55
25:R:276:LEU:C	25:R:280:ILE:HG23	2.32	0.55
25:R:338:TYR:O	25:R:342:LEU:N	2.23	0.55
25:R:338:TYR:OH	25:R:364:LEU:HD11	2.07	0.55
26:S:246:GLU:OE2	27:T:121:LYS:HA	2.06	0.55
26:S:283:GLN:CD	27:T:120:THR:HG21	2.31	0.55
28:U:17:SER:HB3	29:V:32:ILE:HG21	1.88	0.55
28:U:86:LYS:HA	28:U:88:LYS:NZ	2.22	0.55
29:V:107:TRP:HE1	29:V:129:PHE:HD2	1.55	0.55
30:W:109:ARG:NH2	30:W:196:SER:HA	2.22	0.55
31:X:12:ALA:O	31:X:33:ILE:N	2.38	0.55
33:Z:391:ASN:HA	33:Z:394:TYR:HD2	1.71	0.55
33:Z:400:ILE:HG21	33:Z:422:ILE:HG23	1.89	0.55
33:Z:919:GLU:HB3	33:Z:923:ILE:HG21	1.88	0.55
9:b:99:ARG:HA	4:i:86:GLN:HE21	1.72	0.55
10:c:19:LEU:O	10:c:23:GLU:HG2	2.06	0.55
10:c:119:LYS:HZ2	10:c:152:ASN:N	2.05	0.55
11:d:53:LYS:O	11:d:54:LEU:HB3	2.05	0.55
12:e:167:TYR:CD2	12:e:170:LYS:HD3	2.42	0.55
13:f:40:SER:HG	13:f:43:HIS:H	1.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:106:TYR:HA	3:h:109:LYS:HE3	1.88	0.55
5:5:113:ASN:O	5:5:117:GLY:N	2.40	0.55
6:6:79:ALA:N	10:C:104:GLU:OE2	2.40	0.55
6:6:108:ASP:OD1	6:6:110:LYS:N	2.39	0.55
8:A:49:ASP:OD1	8:A:50:CYS:N	2.39	0.55
8:A:92:ASN:O	8:A:95:LEU:HB3	2.07	0.55
9:B:186:GLU:CD	9:B:246:ARG:HE	2.13	0.55
12:E:167:TYR:CD2	12:E:170:LYS:HD3	2.42	0.55
12:E:177:GLU:H	12:E:177:GLU:CD	2.14	0.55
13:F:168:ALA:N	13:F:200:SER:OG	2.31	0.55
14:G:48:PHE:O	14:G:217:SER:N	2.27	0.55
14:G:123:HIS:HB3	14:G:131:PRO:HA	1.88	0.55
15:H:292:ARG:CG	15:H:339:GLN:HE22	2.19	0.55
17:J:24:GLU:HB2	18:K:48:TYR:CZ	2.42	0.55
17:J:342:ASN:O	17:J:379:GLN:NE2	2.40	0.55
18:K:136:SER:HB2	18:K:150:LEU:HB2	1.89	0.55
18:K:158:ILE:HG22	18:K:160:VAL:N	2.21	0.55
19:L:170:MET:HG2	19:L:266:MET:CG	2.34	0.55
20:M:74:GLN:NE2	20:M:150:LYS:HE3	2.21	0.55
20:M:298:ASP:HB3	20:M:301:VAL:HG22	1.89	0.55
22:O:165:LEU:O	22:O:169:ASN:N	2.22	0.55
22:O:338:LYS:HZ3	22:O:353:VAL:N	2.04	0.55
23:P:40:LEU:HA	23:P:43:GLU:HB3	1.89	0.55
23:P:47:ARG:HG3	23:P:49:ALA:N	2.03	0.55
23:P:56:LYS:NZ	23:P:91:LEU:HB2	2.21	0.55
23:P:70:ASN:ND2	23:P:78:GLN:OE1	2.40	0.55
23:P:101:MET:HG3	23:P:139:VAL:HG21	1.88	0.55
24:Q:8:LEU:N	24:Q:50:ARG:HH22	2.04	0.55
24:Q:65:TYR:O	24:Q:69:GLY:N	2.40	0.55
24:Q:256:GLU:OE2	24:Q:259:CYS:HB2	2.06	0.55
25:R:331:ARG:O	25:R:334:ARG:HB3	2.07	0.55
25:R:353:MET:HG3	25:R:357:PHE:CE2	2.41	0.55
27:T:187:ASP:O	27:T:190:ALA:HB3	2.07	0.55
28:U:89:LEU:HD11	28:U:91:GLY:O	2.07	0.55
28:U:230:GLN:HA	28:U:233:PHE:CZ	2.41	0.55
29:V:185:ILE:HG13	29:V:186:GLN:N	2.22	0.55
29:V:241:THR:OG1	29:V:297:THR:HG21	2.06	0.55
30:W:57:ALA:C	30:W:86:HIS:HE1	2.15	0.55
31:X:33:ILE:HD13	31:X:99:PHE:CD2	2.42	0.55
31:X:77:PRO:HG2	31:X:79:LYS:HB2	1.89	0.55
31:X:121:ILE:HG22	31:X:125:MET:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:106:TRP:HZ3	33:Z:198:GLU:HB2	1.70	0.55
8:a:48:LYS:N	8:a:194:ILE:O	2.40	0.55
8:a:121:MET:O	8:a:124:LEU:HB2	2.07	0.55
11:d:120:TYR:HD1	11:d:126:VAL:HG21	1.72	0.55
13:f:54:ASP:N	13:f:57:SER:OG	2.40	0.55
14:g:90:ASN:HA	14:g:93:ARG:HB2	1.88	0.55
5:j:58:THR:HB	6:k:124:THR:OG1	2.07	0.55
7:l:189:TYR:CD2	7:l:197:LEU:HD12	2.42	0.55
1:1:166:MET:HB2	7:l:100:TRP:CH2	2.42	0.55
2:2:179:PHE:HE2	2:2:217:LEU:HA	1.71	0.55
4:4:172:LYS:HE2	4:4:175:LEU:HD23	1.88	0.55
6:6:182:LYS:HA	6:6:191:GLN:HA	1.89	0.55
6:6:185:ASP:OD2	6:6:190:ARG:NH1	2.38	0.55
7:7:179:TYR:CD1	7:7:257:GLU:HB2	2.42	0.55
1:8:220:GLY:HA2	1:8:237:GLU:HA	1.89	0.55
8:A:44:ALA:N	8:A:169:THR:O	2.19	0.55
8:A:51:THR:O	8:A:228:ALA:N	2.40	0.55
11:D:171:VAL:O	11:D:174:PHE:HB3	2.07	0.55
12:E:110:GLU:O	12:E:114:GLN:N	2.31	0.55
13:F:88:LEU:HA	13:F:91:GLN:HG2	1.88	0.55
13:F:137:TYR:CE1	13:F:141:GLY:HA2	2.42	0.55
15:H:171:GLY:O	16:I:128:TYR:HD1	1.90	0.55
15:H:389:PHE:CE1	15:H:419:LEU:HB3	2.41	0.55
16:I:147:VAL:HA	16:I:160:LEU:HB3	1.88	0.55
16:I:150:HIS:CE1	16:I:152:LYS:HG3	2.42	0.55
16:I:217:LYS:HZ2	16:I:313:LEU:HG	1.72	0.55
17:J:210:PHE:HE1	17:J:291:ILE:HD12	1.70	0.55
18:K:237:VAL:N	18:K:270:PHE:O	2.40	0.55
19:L:72:ASP:HA	19:L:75:LYS:NZ	2.22	0.55
19:L:260:ALA:HB1	19:L:264:ARG:NE	2.22	0.55
19:L:298:ASP:O	19:L:302:GLN:N	2.23	0.55
19:L:377:GLU:HG2	19:L:381:LYS:HG3	1.89	0.55
19:L:394:CYS:SG	19:L:419:VAL:HG22	2.46	0.55
20:M:197:ILE:HG23	20:M:322:LYS:HG3	1.89	0.55
20:M:329:ARG:HH21	20:M:346:LYS:NZ	2.05	0.55
21:N:115:LYS:O	21:N:118:THR:HB	2.06	0.55
21:N:550:GLY:O	21:N:554:THR:N	2.27	0.55
21:N:685:VAL:HG13	21:N:691:GLN:HB3	1.87	0.55
21:N:717:LEU:HD12	21:N:718:GLU:H	1.72	0.55
21:N:758:VAL:O	21:N:871:MET:N	2.40	0.55
23:P:329:PHE:CD2	23:P:337:HIS:CD2	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:350:LEU:HA	23:P:353:ILE:HB	1.89	0.55
24:Q:295:GLY:O	24:Q:299:MET:HG2	2.07	0.55
24:Q:423:VAL:HG13	25:R:417:TYR:HH	1.71	0.55
25:R:284:ALA:C	25:R:286:LEU:N	2.62	0.55
26:S:183:LEU:HA	26:S:186:TYR:HB3	1.88	0.55
27:T:186:ARG:HB3	27:T:209:LEU:HD22	1.89	0.55
29:V:55:GLY:N	29:V:102:GLN:HB3	2.21	0.55
29:V:111:HIS:CE1	29:V:118:LEU:HB3	2.41	0.55
29:V:185:ILE:HG13	29:V:186:GLN:HG3	1.89	0.55
30:W:7:VAL:HG21	30:W:94:ALA:HB1	1.89	0.55
30:W:15:TYR:HB2	30:W:115:CYS:HA	1.89	0.55
31:X:36:LYS:HG2	31:X:47:ASP:O	2.07	0.55
31:X:85:ARG:H	31:X:101:LEU:HD22	1.71	0.55
33:Z:475:GLN:HE22	33:Z:502:ASN:ND2	2.05	0.55
33:Z:776:VAL:HG12	33:Z:780:MET:HG2	1.88	0.55
8:a:14:ARG:HG2	8:a:26:TYR:CD1	2.41	0.55
8:a:92:ASN:O	8:a:95:LEU:HB3	2.07	0.55
8:a:115:ASP:O	8:a:119:LYS:N	2.37	0.55
10:c:191:GLU:HG3	10:c:242:THR:HB	1.89	0.55
10:c:194:LEU:HA	10:c:197:LEU:HD12	1.88	0.55
10:c:207:THR:OG1	10:c:209:ASP:OD1	2.14	0.55
12:e:222:ILE:HG13	12:e:228:PHE:N	2.22	0.55
13:f:94:TYR:CZ	13:f:98:VAL:HG21	2.42	0.55
14:g:43:ASN:HD21	14:g:188:SER:HA	1.72	0.55
5:j:12:VAL:HG22	5:j:25:CYS:CB	2.37	0.55
6:k:8:ARG:HD3	6:k:116:LEU:H	1.71	0.55
6:k:70:ARG:HG2	6:k:71:GLU:OE2	2.07	0.55
6:k:195:PHE:HA	6:k:198:GLN:HB2	1.88	0.55
2:2:48:LYS:NZ	2:2:158:GLN:O	2.39	0.54
3:3:17:SER:O	3:3:40:THR:N	2.36	0.54
3:3:176:HIS:HD2	3:h:159:LYS:HZ1	1.54	0.54
4:4:106:VAL:O	4:4:109:LEU:HB3	2.06	0.54
5:5:54:THR:O	5:5:106:GLY:N	2.41	0.54
6:6:88:LEU:O	6:6:92:ILE:N	2.25	0.54
7:7:165:TYR:HB3	7:7:168:ALA:HB3	1.89	0.54
7:7:189:TYR:CE2	7:7:191:ASP:HB3	2.42	0.54
1:8:57:ARG:HH21	4:i:194:ASN:ND2	2.05	0.54
2:9:60:LEU:HD11	2:9:67:LEU:HB3	1.89	0.54
2:9:226:ARG:HH11	3:h:213:GLU:CD	2.13	0.54
8:A:134:MET:SD	14:G:126:TYR:OH	2.63	0.54
8:A:147:ASP:CG	8:A:150:LEU:H	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:C:42:ASP:OD2	10:C:185:LYS:HG3	2.06	0.54
10:C:181:LYS:NZ	10:C:184:MET:HG2	2.21	0.54
11:D:120:TYR:HD1	11:D:126:VAL:HG21	1.72	0.54
12:E:36:THR:HG1	12:E:174:SER:HG	1.55	0.54
13:F:54:ASP:N	13:F:57:SER:OG	2.40	0.54
14:G:51:GLU:HG3	14:G:212:PHE:CD2	2.42	0.54
14:G:198:LYS:NZ	14:G:199:ILE:CG1	2.71	0.54
15:H:77:ALA:HB2	15:H:102:CYS:HA	1.89	0.54
15:H:240:ILE:HG23	20:M:368:MET:SD	2.47	0.54
15:H:264:ALA:O	15:H:269:ALA:N	2.40	0.54
16:I:132:ILE:HG22	16:I:138:LYS:HZ2	1.72	0.54
16:I:246:ARG:HA	16:I:280:PHE:HD2	1.72	0.54
17:J:76:ILE:HG12	17:J:87:LYS:N	2.22	0.54
17:J:307:PRO:HB3	17:J:311:ASP:HA	1.88	0.54
18:K:99:PHE:HB2	18:K:137:VAL:HG11	1.87	0.54
18:K:224:LYS:HA	18:K:227:ALA:HB3	1.89	0.54
19:L:178:ILE:O	19:L:234:ALA:HA	2.07	0.54
21:N:68:VAL:O	21:N:72:LEU:HG	2.07	0.54
21:N:145:LEU:HA	21:N:150:LEU:HD21	1.88	0.54
21:N:920:VAL:C	21:N:924:LYS:HZ3	2.13	0.54
22:O:302:VAL:HG13	22:O:303:LYS:H	1.71	0.54
23:P:258:LYS:HZ2	23:P:291:LYS:HG2	1.72	0.54
23:P:417:HIS:ND1	23:P:420:ASP:HB2	2.22	0.54
24:Q:138:SER:HB3	24:Q:157:LEU:HD11	1.89	0.54
24:Q:178:HIS:HD2	24:Q:197:SER:HA	1.72	0.54
24:Q:415:LEU:HA	24:Q:418:GLN:HB2	1.88	0.54
25:R:139:GLU:OE1	25:R:176:ARG:NE	2.40	0.54
25:R:152:LYS:C	25:R:156:LYS:HZ3	2.15	0.54
25:R:252:TYR:OH	25:R:319:CYS:HB3	2.07	0.54
25:R:350:LEU:H	25:R:387:ILE:CA	2.19	0.54
25:R:350:LEU:N	25:R:387:ILE:HA	2.22	0.54
26:S:344:PRO:O	26:S:348:LEU:N	2.24	0.54
26:S:411:LEU:HD12	26:S:419:VAL:HG13	1.89	0.54
26:S:486:LYS:HZ2	28:U:298:ASN:HB2	1.70	0.54
27:T:109:TYR:HD1	27:T:112:ASN:HD22	1.55	0.54
28:U:77:ASN:HA	28:U:80:CYS:HB2	1.88	0.54
28:U:166:ALA:N	29:V:42:ARG:NH1	2.51	0.54
29:V:108:TYR:CE1	29:V:141:VAL:HG23	2.40	0.54
29:V:108:TYR:HE1	29:V:141:VAL:CG2	2.14	0.54
29:V:254:ARG:HG2	29:V:287:THR:CG2	2.36	0.54
30:W:49:VAL:HG23	30:W:71:LYS:HZ3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:854:LEU:HA	33:Z:857:LEU:HB2	1.89	0.54
8:a:20:SER:HB3	8:a:26:TYR:CE1	2.42	0.54
10:c:69:LEU:HB2	10:c:73:ILE:HG22	1.89	0.54
12:e:73:HIS:C	12:e:222:ILE:HD11	2.32	0.54
12:e:88:MET:O	12:e:92:ALA:N	2.27	0.54
12:e:93:ARG:NH1	7:l:143:LEU:C	2.64	0.54
14:g:214:LEU:HD21	14:g:216:ILE:HD11	1.89	0.54
4:i:106:VAL:O	4:i:109:LEU:HB3	2.06	0.54
1:1:32:LEU:HA	1:1:157:ALA:HA	1.89	0.54
2:2:36:GLN:NE2	2:2:38:ILE:HD11	2.22	0.54
2:2:164:ASN:OD1	2:2:168:VAL:N	2.40	0.54
3:3:12:LYS:O	3:3:15:GLU:HG2	2.08	0.54
4:4:76:GLY:HA3	4:4:124:GLY:O	2.07	0.54
6:6:7:ILE:HG23	6:6:14:ILE:HB	1.89	0.54
7:7:151:VAL:HG21	7:7:178:GLY:HA3	1.89	0.54
1:8:169:LEU:O	1:8:172:GLN:N	2.40	0.54
1:8:208:THR:O	1:8:212:GLU:HG2	2.07	0.54
2:9:164:ASN:OD1	2:9:168:VAL:N	2.40	0.54
2:9:252:TRP:HB3	3:h:191:VAL:HG11	1.89	0.54
10:C:146:TYR:HH	10:C:218:LYS:H	1.51	0.54
10:C:194:LEU:HA	10:C:197:LEU:HD12	1.88	0.54
11:D:46:CYS:HB2	11:D:211:GLU:HG3	1.89	0.54
12:E:192:THR:H	12:E:195:GLU:CD	2.15	0.54
15:H:243:PRO:HB3	15:H:373:ARG:H	1.72	0.54
17:J:187:LEU:HD22	17:J:316:PHE:HB2	1.90	0.54
17:J:198:LEU:HD11	17:J:316:PHE:HE2	1.72	0.54
18:K:371:LEU:HD21	18:K:404:GLN:HE22	1.73	0.54
19:L:337:LEU:HA	19:L:342:ARG:HD3	1.90	0.54
19:L:374:PHE:CZ	19:L:415:LEU:HD13	2.42	0.54
20:M:369:THR:OG1	20:M:408:SER:O	2.25	0.54
21:N:185:ILE:HA	21:N:188:TYR:HD2	1.70	0.54
21:N:310:ASP:HB2	21:N:787:MET:CG	2.36	0.54
22:O:81:TYR:C	22:O:84:ALA:H	2.11	0.54
22:O:125:GLY:O	22:O:129:ILE:HG12	2.07	0.54
22:O:225:ASP:HA	22:O:226:LYS:CB	2.36	0.54
23:P:221:TYR:O	23:P:225:VAL:HG23	2.07	0.54
23:P:308:LEU:HB3	23:P:349:ASN:ND2	2.21	0.54
23:P:318:TYR:HB3	23:P:322:LEU:CB	2.37	0.54
24:Q:11:ALA:HB1	24:Q:27:TYR:CG	2.43	0.54
24:Q:141:LEU:HG	24:Q:145:HIS:CE1	2.42	0.54
24:Q:240:PHE:O	24:Q:244:GLU:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:53:LYS:HB3	25:R:59:MET:HE1	1.89	0.54
25:R:338:TYR:HA	25:R:341:LEU:HB2	1.90	0.54
26:S:188:TYR:O	26:S:192:GLU:HG3	2.06	0.54
26:S:314:ASN:O	26:S:318:CYS:N	2.28	0.54
27:T:9:LYS:O	27:T:13:ILE:N	2.27	0.54
27:T:15:PHE:CG	27:T:64:VAL:HG13	2.42	0.54
27:T:102:LYS:HA	27:T:105:LEU:HD12	1.89	0.54
28:U:38:LEU:O	28:U:49:THR:N	2.40	0.54
28:U:141:GLU:C	28:U:153:THR:HG1	2.16	0.54
28:U:173:HIS:O	28:U:176:ARG:NH1	2.39	0.54
29:V:143:PRO:O	29:V:147:VAL:HG13	2.08	0.54
29:V:278:LYS:NZ	29:V:279:HIS:CE1	2.75	0.54
33:Z:886:VAL:HG12	33:Z:896:LYS:HZ3	1.71	0.54
8:a:124:LEU:HA	8:a:127:ILE:HD12	1.89	0.54
10:c:104:GLU:CD	6:k:79:ALA:HB2	2.33	0.54
12:e:73:HIS:CD2	12:e:74:ILE:HG13	2.42	0.54
12:e:165:TYR:OH	13:f:60:GLN:HB2	2.06	0.54
12:e:184:LEU:HA	13:f:56:LEU:HD11	1.89	0.54
13:f:231:ALA:HA	13:f:234:ILE:HD12	1.88	0.54
4:i:206:VAL:HB	4:i:214:GLU:CG	2.37	0.54
7:l:151:VAL:HG21	7:l:178:GLY:HA3	1.89	0.54
1:1:47:ARG:HE	1:1:219:ASP:CG	2.15	0.54
2:2:136:ARG:HH12	2:2:143:LEU:HD21	1.73	0.54
5:5:12:VAL:HG22	5:5:25:CYS:CB	2.37	0.54
5:5:29:LEU:HB2	5:5:40:PHE:HB3	1.89	0.54
5:5:183:TRP:CZ2	7:l:242:ARG:HA	2.42	0.54
6:6:25:ILE:HG12	6:k:139:TYR:OH	2.07	0.54
6:6:79:ALA:HB2	10:C:104:GLU:CD	2.32	0.54
7:7:213:GLY:O	6:k:143:LEU:HD21	2.08	0.54
7:7:262:TYR:OH	7:7:265:ASN:N	2.41	0.54
7:7:276:LYS:HZ2	7:7:285:VAL:HG12	1.72	0.54
9:B:148:TYR:HE1	9:B:158:PRO:HB3	1.72	0.54
10:C:119:LYS:HD3	10:C:153:PRO:HA	1.89	0.54
11:D:239:GLU:HA	11:D:242:GLU:CD	2.33	0.54
12:E:73:HIS:C	12:E:222:ILE:HD11	2.32	0.54
14:G:100:LYS:HA	14:G:105:THR:O	2.07	0.54
15:H:275:ILE:HB	15:H:278:GLU:CD	2.32	0.54
15:H:402:ILE:HG21	15:H:440:GLU:N	2.22	0.54
17:J:276:LEU:HD23	17:J:279:LEU:HD12	1.88	0.54
17:J:318:PRO:CB	17:J:319:PRO:CA	2.85	0.54
18:K:96:ILE:HD11	19:L:118:ILE:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:362:LYS:HE2	19:L:376:PHE:HB3	1.89	0.54
20:M:331:ASP:CG	20:M:332:VAL:H	2.15	0.54
20:M:373:ASP:O	20:M:412:HIS:HB2	2.06	0.54
21:N:69:TYR:O	21:N:73:GLY:N	2.40	0.54
21:N:181:GLU:O	21:N:184:LYS:N	2.40	0.54
21:N:308:ASN:ND2	21:N:873:ARG:NH1	2.54	0.54
22:O:298:GLU:HB2	22:O:356:ARG:CZ	2.38	0.54
22:O:321:LYS:O	22:O:324:VAL:HB	2.07	0.54
23:P:300:VAL:HA	23:P:303:PHE:CD2	2.41	0.54
23:P:323:ASN:OD1	23:P:334:ASN:HB3	2.07	0.54
23:P:369:LEU:O	23:P:371:LEU:HG	2.08	0.54
24:Q:62:GLY:HA2	24:Q:65:TYR:HB2	1.88	0.54
24:Q:413:LEU:HD12	24:Q:416:VAL:HB	1.89	0.54
26:S:143:GLN:CG	26:S:148:ASP:CG	2.76	0.54
26:S:342:LEU:HD12	26:S:345:TYR:HB2	1.89	0.54
29:V:94:MET:HA	29:V:97:GLN:HB2	1.89	0.54
29:V:114:PHE:HB3	29:V:116:CYS:SG	2.47	0.54
30:W:37:PHE:CZ	30:W:41:ARG:HD3	2.42	0.54
30:W:67:ALA:CB	30:W:68:GLU:CA	2.85	0.54
30:W:109:ARG:HH21	30:W:196:SER:HA	1.72	0.54
9:b:16:GLY:HA2	10:c:24:TYR:HB3	1.88	0.54
9:b:108:LYS:NZ	5:j:78:GLU:HA	2.22	0.54
10:c:110:ILE:HG12	6:k:71:GLU:CD	2.32	0.54
3:h:12:LYS:O	3:h:15:GLU:HG2	2.08	0.54
5:j:67:PHE:O	5:j:71:THR:N	2.31	0.54
6:k:36:ARG:HG2	6:k:46:PHE:HE2	1.71	0.54
6:k:49:GLU:O	6:k:53:THR:N	2.24	0.54
7:l:252:LEU:CB	7:l:263:HIS:HB2	2.37	0.54
2:2:57:ALA:HB1	2:2:74:ARG:CZ	2.37	0.54
2:2:206:ALA:O	2:2:210:ILE:HG12	2.08	0.54
3:3:89:TYR:OH	14:G:115:ARG:NE	2.40	0.54
3:3:120:GLY:O	3:3:128:GLU:N	2.37	0.54
3:3:142:PRO:HB2	3:3:143:TYR:HD1	1.72	0.54
3:3:151:THR:OG1	3:3:152:PHE:N	2.40	0.54
6:6:33:ASP:OD1	6:6:35:THR:HG22	2.07	0.54
6:6:41:HIS:N	6:6:74:GLU:OE2	2.38	0.54
6:6:66:LEU:HG	6:6:70:ARG:NH1	2.22	0.54
6:6:82:SER:N	6:6:125:LYS:HZ3	2.05	0.54
6:6:173:PRO:HG3	6:k:22:THR:HG21	1.90	0.54
7:7:176:ILE:O	7:7:188:TYR:N	2.37	0.54
7:7:189:TYR:CD2	7:7:197:LEU:HD12	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:252:LEU:CB	7:7:263:HIS:HB2	2.37	0.54
2:9:137:ARG:O	2:9:140:MET:N	2.33	0.54
2:9:145:ASN:H	2:9:165:LEU:HD23	1.73	0.54
8:A:100:GLU:O	8:A:104:PHE:N	2.23	0.54
8:A:163:TYR:CE1	9:B:83:ARG:HD3	2.41	0.54
10:C:42:ASP:CG	10:C:186:VAL:H	2.15	0.54
12:E:42:THR:HG21	12:E:193:LEU:HA	1.89	0.54
12:E:183:LEU:O	12:E:187:TRP:N	2.29	0.54
12:E:234:GLU:O	12:E:238:GLU:HG3	2.08	0.54
13:F:38:LEU:HD21	13:F:189:LEU:O	2.07	0.54
13:F:121:GLN:HA	14:G:130:ARG:NE	2.13	0.54
15:H:366:LEU:HA	15:H:371:ILE:HB	1.89	0.54
15:H:426:ALA:HA	15:H:429:PHE:HD2	1.72	0.54
20:M:162:GLU:C	20:M:164:ASP:N	2.65	0.54
21:N:399:PHE:N	21:N:399:PHE:CD1	2.74	0.54
21:N:603:PRO:HG3	21:N:625:LEU:HD11	1.88	0.54
21:N:671:LEU:HD13	21:N:780:ASP:OD2	2.07	0.54
21:N:774:ASN:O	21:N:865:PRO:HA	2.07	0.54
21:N:884:PHE:CE2	21:N:892:PRO:HG3	2.42	0.54
23:P:107:SER:OG	23:P:111:ASP:OD2	2.25	0.54
23:P:288:ASN:HB3	23:P:293:LEU:HD21	1.89	0.54
24:Q:29:SER:O	24:Q:33:LYS:N	2.39	0.54
24:Q:231:ASP:O	24:Q:234:THR:OG1	2.20	0.54
25:R:331:ARG:HA	25:R:334:ARG:HB3	1.88	0.54
26:S:222:SER:OG	26:S:224:LYS:HG2	2.07	0.54
28:U:22:TYR:CD1	28:U:27:THR:HB	2.42	0.54
28:U:84:ASN:OD1	28:U:85:ALA:N	2.41	0.54
28:U:104:LEU:HB2	28:U:152:LYS:HZ2	1.71	0.54
33:Z:221:VAL:O	33:Z:225:LEU:N	2.40	0.54
33:Z:810:ASN:O	33:Z:814:ALA:N	2.32	0.54
12:e:177:GLU:HG2	12:e:178:GLY:N	2.23	0.54
12:e:234:GLU:O	12:e:238:GLU:HG3	2.08	0.54
13:f:120:THR:OG1	13:f:121:GLN:N	2.39	0.54
13:f:121:GLN:HG3	14:g:130:ARG:O	2.07	0.54
13:f:137:TYR:CE1	13:f:141:GLY:HA2	2.43	0.54
13:f:168:ALA:N	13:f:200:SER:OG	2.31	0.54
5:j:23:ILE:HG22	5:j:190:ILE:HD11	1.88	0.54
6:k:40:PRO:HG2	6:k:74:GLU:OE1	2.07	0.54
6:k:182:LYS:HA	6:k:191:GLN:HA	1.90	0.54
7:l:83:PHE:CZ	7:l:225:VAL:HG22	2.39	0.54
7:l:189:TYR:CE2	7:l:191:ASP:HB3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:32:LEU:HD12	1:1:156:ARG:O	2.07	0.54
2:2:58:ASP:H	2:2:74:ARG:NH2	2.00	0.54
3:3:72:GLN:CB	4:4:113:LYS:HZ1	2.20	0.54
3:3:86:THR:HA	3:3:90:GLY:O	2.08	0.54
5:5:145:GLN:O	5:5:149:MET:HG2	2.07	0.54
6:6:19:LYS:HA	6:6:32:ASP:O	2.07	0.54
7:7:176:ILE:HB	7:7:188:TYR:HB2	1.89	0.54
7:7:181:ARG:HB2	7:7:257:GLU:OE2	2.08	0.54
8:A:156:LYS:NZ	8:A:175:GLN:NE2	2.52	0.54
9:B:44:VAL:HA	9:B:213:ILE:HA	1.90	0.54
11:D:57:THR:HA	11:D:60:THR:HB	1.89	0.54
15:H:288:ALA:O	15:H:292:ARG:HG3	2.07	0.54
16:I:301:GLU:HA	16:I:304:ARG:HB3	1.90	0.54
17:J:47:GLN:HE22	26:S:479:MET:CE	2.17	0.54
17:J:337:LEU:O	17:J:376:HIS:ND1	2.41	0.54
19:L:70:TYR:CD2	20:M:8:ASP:HB2	2.43	0.54
19:L:70:TYR:HE2	20:M:5:GLU:HA	1.71	0.54
19:L:195:GLU:O	19:L:200:PRO:HD3	2.08	0.54
19:L:402:ALA:CA	19:L:407:ARG:HB2	2.38	0.54
20:M:79:VAL:HB	20:M:145:LEU:HA	1.89	0.54
20:M:115:LYS:O	20:M:131:MET:HG3	2.06	0.54
21:N:185:ILE:HD13	21:N:188:TYR:CD2	2.43	0.54
21:N:553:PHE:CZ	21:N:586:ALA:HB1	2.43	0.54
21:N:896:PHE:CE2	21:N:898:GLY:HA2	2.42	0.54
22:O:30:GLU:O	22:O:33:TYR:N	2.41	0.54
23:P:104:LEU:HA	23:P:107:SER:HB2	1.88	0.54
23:P:276:LEU:C	23:P:280:LEU:HG	2.32	0.54
23:P:397:ALA:CB	23:P:399:ILE:HB	2.37	0.54
24:Q:66:VAL:HG22	24:Q:71:LYS:HB2	1.89	0.54
24:Q:250:THR:HG23	24:Q:251:THR:H	1.72	0.54
24:Q:430:ALA:O	28:U:300:LYS:NZ	2.38	0.54
25:R:307:TYR:HA	25:R:310:GLU:HB3	1.90	0.54
26:S:338:MET:H	26:S:342:LEU:N	2.03	0.54
28:U:21:HIS:CD2	29:V:100:ARG:HH21	2.25	0.54
28:U:33:CYS:N	28:U:95:SER:OG	2.41	0.54
29:V:31:SER:O	29:V:35:LEU:HG	2.07	0.54
33:Z:368:VAL:C	33:Z:369:PHE:CD1	2.86	0.54
33:Z:524:ALA:HA	33:Z:562:TRP:CZ3	2.43	0.54
33:Z:542:ILE:HG21	33:Z:573:LEU:HD13	1.89	0.54
8:a:51:THR:O	8:a:228:ALA:N	2.40	0.54
8:a:168:ALA:O	9:b:55:LEU:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:81:ASP:HB2	9:b:132:VAL:HG13	1.89	0.54
9:b:136:ILE:N	9:b:148:TYR:O	2.37	0.54
10:c:96:GLN:HB3	5:j:69:TYR:CD1	2.43	0.54
14:g:218:TRP:CD1	14:g:231:VAL:HG23	2.42	0.54
3:h:142:PRO:HB2	3:h:143:TYR:HD1	1.72	0.54
4:i:84:VAL:HA	4:i:87:LEU:HB3	1.90	0.54
6:k:153:THR:HG23	6:k:156:GLU:OE2	2.08	0.54
1:1:29:GLY:C	1:1:74:ASN:HD21	2.16	0.54
1:1:95:HIS:CE1	1:1:102:LYS:HA	2.37	0.54
2:2:81:ASN:CG	2:2:122:PRO:HD3	2.33	0.54
3:3:99:SER:OG	14:G:102:LEU:O	2.25	0.54
4:4:113:LYS:HG3	4:4:114:GLN:N	2.22	0.54
4:4:202:VAL:HB	4:4:220:LEU:HB2	1.90	0.54
2:9:56:ALA:HA	2:9:75:LEU:HD11	1.90	0.54
2:9:57:ALA:HB1	2:9:74:ARG:CZ	2.37	0.54
8:A:48:LYS:N	8:A:194:ILE:O	2.40	0.54
8:A:147:ASP:O	8:A:151:GLY:N	2.31	0.54
10:C:19:LEU:O	10:C:23:GLU:HG2	2.06	0.54
11:D:37:LYS:HB3	11:D:42:VAL:HG22	1.88	0.54
12:E:19:GLY:O	13:F:28:ALA:HB2	2.07	0.54
12:E:201:LEU:HD12	12:E:212:LEU:HD11	1.89	0.54
12:E:222:ILE:HG13	12:E:228:PHE:N	2.21	0.54
13:F:119:ASN:HB3	13:F:127:PRO:HA	1.90	0.54
13:F:154:THR:HG23	14:G:64:ASN:ND2	2.23	0.54
16:I:91:GLU:OE2	16:I:95:GLN:HG3	2.07	0.54
16:I:201:PRO:HB2	16:I:320:GLY:HA3	1.89	0.54
19:L:402:ALA:HB2	19:L:410:ILE:HD13	1.89	0.54
20:M:174:GLU:OE2	20:M:242:THR:OG1	2.26	0.54
21:N:494:LYS:HG3	21:N:497:ALA:H	1.73	0.54
21:N:587:ALA:O	21:N:591:LEU:HG	2.06	0.54
22:O:367:LYS:HE3	28:U:201:GLN:HA	1.90	0.54
24:Q:232:TYR:CZ	24:Q:271:MET:HB3	2.43	0.54
25:R:401:HIS:ND1	26:S:452:TYR:OH	2.36	0.54
26:S:279:ILE:HG22	26:S:283:GLN:HG3	1.90	0.54
27:T:191:LYS:O	27:T:194:GLU:HB3	2.08	0.54
27:T:257:THR:O	27:T:261:GLU:HG3	2.08	0.54
28:U:121:LEU:HD11	28:U:134:THR:HG23	1.88	0.54
28:U:131:GLY:HA2	29:V:215:ASN:OD1	2.08	0.54
28:U:141:GLU:CA	28:U:153:THR:H	2.08	0.54
28:U:208:VAL:HA	28:U:211:LEU:HB3	1.90	0.54
28:U:268:LYS:O	28:U:272:GLU:N	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:261:LEU:HD22	29:V:280:LEU:HD23	1.88	0.54
30:W:25:ARG:HH21	30:W:114:VAL:C	2.14	0.54
33:Z:113:SER:HB2	33:Z:143:VAL:O	2.08	0.54
33:Z:354:PRO:HB3	33:Z:914:LEU:HD13	1.90	0.54
33:Z:783:VAL:HA	33:Z:786:SER:OG	2.07	0.54
33:Z:842:GLN:O	33:Z:846:PHE:N	2.40	0.54
8:a:181:ASN:HD21	8:a:212:ASP:HB2	1.73	0.54
9:b:159:TRP:CD2	9:b:162:THR:HB	2.42	0.54
11:d:57:THR:HA	11:d:60:THR:HB	1.89	0.54
13:f:64:ILE:HG21	13:f:85:SER:HB2	1.90	0.54
14:g:52:LYS:HD2	14:g:215:GLU:HB2	1.89	0.54
14:g:95:GLU:O	14:g:99:PHE:N	2.31	0.54
14:g:198:LYS:NZ	14:g:199:ILE:CG1	2.71	0.54
3:h:18:LEU:O	3:h:38:ARG:O	2.26	0.54
3:h:67:SER:HB3	3:h:70:ASP:CG	2.31	0.54
4:i:113:LYS:O	4:i:117:PHE:N	2.24	0.54
5:j:159:GLU:O	5:j:163:LEU:N	2.34	0.54
7:l:176:ILE:HB	7:l:188:TYR:HB2	1.89	0.54
1:1:213:ARG:O	4:4:55:VAL:N	2.22	0.54
4:4:108:ALA:O	4:4:112:LEU:N	2.25	0.54
1:8:32:LEU:HD12	1:8:156:ARG:O	2.07	0.54
8:A:63:LEU:CD2	14:G:176:LEU:HB3	2.38	0.54
8:A:203:VAL:HG11	8:A:244:ARG:HG3	1.89	0.54
9:B:159:TRP:CD2	9:B:162:THR:HB	2.42	0.54
12:E:195:GLU:C	12:E:199:LEU:HD13	2.32	0.54
12:E:203:ILE:O	12:E:206:GLN:HB3	2.07	0.54
15:H:96:PRO:HG3	16:I:111:GLU:CB	2.38	0.54
15:H:341:ASP:O	15:H:346:ARG:NH2	2.35	0.54
16:I:97:GLU:CD	16:I:100:ARG:HD3	2.33	0.54
16:I:401:LEU:HA	16:I:404:LEU:HB2	1.89	0.54
17:J:193:THR:H	17:J:195:LYS:HE2	1.73	0.54
17:J:392:LYS:HA	17:J:395:GLU:HB3	1.89	0.54
20:M:169:ALA:HB1	20:M:250:GLN:CD	2.33	0.54
20:M:253:GLN:HG3	20:M:259:GLY:N	2.22	0.54
20:M:339:ARG:N	20:M:343:LEU:O	2.39	0.54
21:N:174:LEU:HD23	21:N:182:ASN:HB3	1.89	0.54
21:N:333:SER:HB2	21:N:355:TRP:HZ2	1.72	0.54
21:N:412:TYR:O	21:N:415:PHE:N	2.37	0.54
21:N:419:THR:HA	21:N:422:TYR:HB3	1.89	0.54
22:O:215:TYR:CE1	22:O:247:ASN:HB2	2.43	0.54
22:O:330:ARG:O	22:O:334:LEU:HG	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:55:SER:C	23:P:88:GLN:HE22	2.16	0.54
23:P:64:ASP:HA	23:P:67:ALA:HB3	1.90	0.54
23:P:137:ALA:O	23:P:140:THR:HB	2.08	0.54
23:P:163:LEU:CD2	23:P:179:PHE:HB2	2.38	0.54
23:P:260:VAL:C	23:P:264:ILE:HG13	2.33	0.54
24:Q:116:PHE:O	24:Q:120:LYS:HG3	2.07	0.54
24:Q:235:ALA:O	24:Q:239:PHE:N	2.25	0.54
25:R:64:LYS:HA	25:R:94:PHE:HZ	1.73	0.54
26:S:207:ASN:HA	26:S:210:LEU:HB3	1.89	0.54
26:S:316:LEU:HD12	26:S:319:CYS:HB2	1.90	0.54
27:T:124:SER:O	27:T:128:TYR:N	2.30	0.54
27:T:141:LEU:HA	27:T:144:TYR:CD2	2.43	0.54
28:U:199:GLY:H	29:V:233:LYS:NZ	2.06	0.54
28:U:275:VAL:O	28:U:278:ILE:N	2.40	0.54
29:V:91:MET:C	29:V:95:LEU:HG	2.33	0.54
30:W:20:ASP:OD1	30:W:25:ARG:HA	2.08	0.54
30:W:68:GLU:CD	30:W:69:PHE:H	2.15	0.54
31:X:125:MET:HA	31:X:128:VAL:HG12	1.89	0.54
33:Z:178:SER:HA	33:Z:579:GLU:OE2	2.08	0.54
33:Z:440:LEU:HD21	33:Z:477:TYR:CG	2.42	0.54
33:Z:440:LEU:HB2	33:Z:451:ALA:HB3	1.88	0.54
33:Z:544:THR:O	33:Z:548:ASP:N	2.41	0.54
33:Z:822:THR:HG21	33:Z:826:ARG:HE	1.72	0.54
33:Z:878:LEU:HA	33:Z:881:ILE:HD12	1.89	0.54
8:a:75:ILE:HG21	8:a:117:LEU:HD21	1.88	0.54
11:d:101:GLU:OE2	7:l:196:ARG:NH1	2.41	0.54
13:f:88:LEU:HA	13:f:91:GLN:HG2	1.88	0.54
13:f:187:ASP:HB3	13:f:191:LYS:NZ	2.23	0.54
3:h:185:ASP:OD1	3:h:186:GLY:N	2.41	0.54
5:j:186:VAL:HG21	5:j:197:LYS:HE3	1.90	0.54
7:l:179:TYR:CD1	7:l:257:GLU:HB2	2.42	0.54
2:2:60:LEU:HD11	2:2:67:LEU:HB3	1.89	0.54
4:4:41:VAL:HG13	4:4:207:MET:HB2	1.89	0.54
4:4:195:ASP:OD2	4:4:198:SER:OG	2.19	0.54
5:5:76:LEU:C	10:C:92:ARG:NH1	2.66	0.54
7:7:243:ASP:HB3	7:7:246:SER:HB2	1.89	0.54
7:7:253:TYR:CZ	7:7:262:TYR:CD1	2.96	0.54
8:A:115:ASP:OD1	8:A:116:VAL:N	2.39	0.54
13:F:150:SER:O	14:G:83:PRO:HG2	2.08	0.54
13:F:191:LYS:HA	13:F:194:VAL:HB	1.90	0.54
15:H:157:VAL:HG13	20:M:75:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:172:MET:HB3	16:I:129:TYR:O	2.08	0.54
16:I:290:LYS:HB2	16:I:303:GLN:HE21	1.72	0.54
17:J:165:GLU:CG	17:J:202:VAL:HG13	2.35	0.54
17:J:324:ARG:HD3	17:J:353:CYS:C	2.33	0.54
18:K:236:ARG:HG3	18:K:270:PHE:CD2	2.43	0.54
18:K:408:GLU:HA	18:K:411:TYR:HB3	1.90	0.54
19:L:170:MET:HE3	19:L:266:MET:HA	1.90	0.54
19:L:278:ILE:HB	19:L:323:ILE:HA	1.89	0.54
19:L:286:ILE:HB	19:L:304:THR:HG21	1.90	0.54
19:L:306:MET:HG3	19:L:309:LEU:HD23	1.89	0.54
20:M:25:LEU:HA	20:M:28:GLN:CD	2.33	0.54
20:M:116:ALA:HB1	20:M:128:PHE:HE1	1.73	0.54
20:M:364:HIS:HE1	20:M:388:GLY:C	2.16	0.54
21:N:310:ASP:HB2	21:N:787:MET:HG2	1.88	0.54
21:N:380:LEU:C	21:N:384:LYS:NZ	2.65	0.54
21:N:748:PHE:O	21:N:751:LEU:HG	2.07	0.54
21:N:875:LEU:O	21:N:879:SER:OG	2.18	0.54
22:O:64:ASN:C	22:O:66:VAL:N	2.66	0.54
22:O:99:LEU:HA	22:O:132:GLU:OE1	2.07	0.54
22:O:234:LEU:HD13	22:O:255:LEU:HD22	1.90	0.54
22:O:306:ARG:NH1	22:O:351:SER:C	2.66	0.54
22:O:384:MET:HE1	28:U:193:GLN:HE22	1.73	0.54
23:P:177:ILE:HA	23:P:180:ILE:HB	1.90	0.54
23:P:379:TYR:HD1	23:P:382:ASP:OD2	1.90	0.54
23:P:397:ALA:HB1	23:P:399:ILE:HD12	1.90	0.54
23:P:423:LEU:HD21	29:V:239:ALA:N	2.22	0.54
24:Q:65:TYR:HB3	24:Q:70:ALA:C	2.33	0.54
24:Q:217:GLU:O	24:Q:221:MET:N	2.26	0.54
24:Q:242:SER:O	24:Q:245:SER:HB2	2.08	0.54
25:R:45:GLU:HA	25:R:48:GLU:OE1	2.08	0.54
25:R:215:GLY:C	25:R:223:ASN:HD21	2.13	0.54
26:S:205:ASN:OD1	27:T:44:LEU:HD22	2.07	0.54
26:S:338:MET:HA	26:S:341:SER:H	1.73	0.54
27:T:139:ASP:O	27:T:143:SER:N	2.41	0.54
28:U:283:ARG:HG3	29:V:288:LEU:HG	1.90	0.54
29:V:26:THR:OG1	29:V:62:THR:HA	2.07	0.54
29:V:237:ASN:CB	29:V:238:LEU:HB3	2.29	0.54
30:W:122:ARG:HG2	30:W:153:LEU:CD2	2.38	0.54
30:W:157:PHE:O	30:W:161:VAL:HG23	2.07	0.54
30:W:158:ILE:O	30:W:162:ASN:HB2	2.08	0.54
31:X:39:GLU:OE2	31:X:65:SER:OG	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:411:LYS:HA	33:Z:415:MET:HB2	1.89	0.54
33:Z:616:LEU:HD13	33:Z:746:ILE:HD12	1.90	0.54
10:c:90:THR:O	10:c:93:ILE:HB	2.07	0.54
11:d:151:GLU:HG2	11:d:155:ILE:O	2.08	0.54
11:d:225:SER:N	11:d:228:GLU:OE1	2.36	0.54
12:e:35:SER:HG	12:e:66:LYS:HZ3	1.53	0.54
12:e:153:TYR:OH	12:e:224:LYS:N	2.31	0.54
12:e:195:GLU:C	12:e:199:LEU:HD13	2.32	0.54
13:f:51:ARG:O	13:f:60:GLN:N	2.38	0.54
14:g:78:TYR:CE2	14:g:82:ILE:HA	2.43	0.54
3:h:33:LEU:HB3	3:h:53:LEU:HD22	1.89	0.54
4:i:68:PRO:C	4:i:71:TRP:HE1	2.12	0.54
6:k:33:ASP:OD1	6:k:35:THR:HG22	2.07	0.54
7:l:119:THR:HG21	7:l:175:MET:HB2	1.89	0.54
5:5:84:PRO:HA	5:5:87:PHE:HB3	1.90	0.54
6:6:8:ARG:HD3	6:6:116:LEU:H	1.71	0.54
7:7:267:ASP:OD2	7:7:270:GLU:HG3	2.08	0.54
2:9:80:ASP:OD1	2:9:81:ASN:N	2.38	0.54
2:9:93:MET:HA	2:9:96:ILE:HD12	1.89	0.54
12:E:48:LEU:HD11	12:E:145:ALA:HB2	1.90	0.54
14:G:109:ILE:O	14:G:113:ALA:N	2.39	0.54
15:H:62:ARG:O	15:H:66:LYS:N	2.41	0.54
17:J:29:GLU:CD	26:S:224:LYS:HD2	2.33	0.54
17:J:48:ARG:HG3	18:K:75:LEU:HD13	1.90	0.54
18:K:238:ASN:H	18:K:241:GLU:HG2	1.72	0.54
18:K:261:ALA:O	18:K:265:ALA:N	2.41	0.54
19:L:82:ARG:CB	19:L:86:LYS:NZ	2.69	0.54
19:L:92:GLU:O	19:L:96:LYS:N	2.37	0.54
19:L:165:PRO:CB	19:L:168:TYR:HB2	2.38	0.54
19:L:274:GLU:HB3	19:L:321:THR:OG1	2.07	0.54
20:M:377:GLN:HA	20:M:380:ALA:HB3	1.89	0.54
21:N:230:VAL:O	21:N:233:ASN:ND2	2.40	0.54
21:N:332:VAL:HG23	21:N:355:TRP:CH2	2.36	0.54
21:N:437:GLU:HA	21:N:440:ASP:HB2	1.90	0.54
22:O:327:LEU:HD23	22:O:330:ARG:HD2	1.90	0.54
22:O:342:ASP:OD2	22:O:345:ASN:ND2	2.40	0.54
23:P:266:TYR:O	23:P:270:LEU:N	2.33	0.54
23:P:433:ILE:O	23:P:436:GLU:HB2	2.08	0.54
23:P:438:ILE:C	23:P:441:GLY:H	2.16	0.54
24:Q:356:CYS:N	24:Q:397:LEU:O	2.40	0.54
26:S:343:LEU:C	26:S:347:HIS:HD1	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:220:PHE:HA	27:T:223:GLU:OE1	2.07	0.54
27:T:247:ASP:C	27:T:249:MET:H	2.16	0.54
27:T:250:MET:N	27:T:256:LYS:HD2	2.22	0.54
28:U:8:VAL:HG12	28:U:9:THR:O	2.08	0.54
28:U:70:HIS:O	28:U:73:ILE:N	2.41	0.54
29:V:37:MET:SD	29:V:68:VAL:HG11	2.48	0.54
29:V:80:VAL:HA	29:V:125:THR:HG23	1.89	0.54
29:V:142:ASP:O	29:V:146:SER:N	2.41	0.54
30:W:108:GLN:HB2	30:W:137:VAL:HA	1.90	0.54
33:Z:327:GLN:HA	33:Z:331:GLY:HA3	1.90	0.54
33:Z:741:LEU:HB2	33:Z:775:MET:HE2	1.90	0.54
8:a:161:GLY:O	9:b:83:ARG:NH1	2.41	0.54
9:b:140:ASP:OD1	9:b:140:ASP:N	2.38	0.54
9:b:146:SER:HB2	9:b:148:TYR:CZ	2.43	0.54
11:d:46:CYS:HB2	11:d:211:GLU:HG3	1.89	0.54
12:e:42:THR:HG21	12:e:193:LEU:HA	1.89	0.54
13:f:11:VAL:CG2	14:g:130:ARG:HB2	2.38	0.54
13:f:228:GLU:OE1	13:f:228:GLU:N	2.29	0.54
14:g:100:LYS:HA	14:g:105:THR:O	2.07	0.54
14:g:218:TRP:HD1	14:g:231:VAL:HG23	1.73	0.54
3:h:106:TYR:CD2	3:h:107:GLU:OE2	2.61	0.54
4:i:76:GLY:HA3	4:i:124:GLY:O	2.07	0.54
4:i:113:LYS:HG3	4:i:114:GLN:N	2.22	0.54
4:i:202:VAL:HB	4:i:220:LEU:HB2	1.90	0.54
6:k:7:ILE:HG23	6:k:14:ILE:HB	1.89	0.54
7:l:88:ILE:HD11	7:l:225:VAL:HG13	1.90	0.54
1:1:181:PRO:HB3	4:4:236:ARG:O	2.08	0.54
4:4:65:ARG:HB2	4:4:71:TRP:CH2	2.43	0.54
5:5:178:ASP:HB3	5:5:181:SER:HB2	1.90	0.54
8:A:115:ASP:O	8:A:119:LYS:N	2.37	0.54
8:A:144:VAL:HG12	8:A:154:ILE:HA	1.90	0.54
10:C:69:LEU:HA	10:C:92:ARG:HG2	1.91	0.54
10:C:115:LEU:HD23	10:C:118:ILE:HD12	1.90	0.54
15:H:249:TYR:CD1	15:H:358:PRO:HB3	2.43	0.54
15:H:254:THR:HB	15:H:417:ALA:H	1.73	0.54
16:I:140:LEU:HD12	16:I:159:VAL:HG11	1.90	0.54
19:L:216:LYS:H	19:L:344:ASP:CG	2.11	0.54
19:L:256:ILE:CD1	19:L:303:ARG:HD3	2.38	0.54
20:M:17:GLU:O	20:M:21:GLU:N	2.28	0.54
21:N:36:TRP:CZ2	21:N:71:ASN:HB3	2.43	0.54
21:N:198:THR:OG1	21:N:199:ASN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:338:PHE:C	21:N:708:ALA:HA	2.33	0.54
22:O:41:LEU:HD22	22:O:82:LEU:HD21	1.89	0.54
23:P:228:SER:O	23:P:232:ARG:N	2.37	0.54
24:Q:62:GLY:O	24:Q:65:TYR:HB2	2.08	0.54
24:Q:65:TYR:HB3	24:Q:71:LYS:N	2.24	0.54
24:Q:186:HIS:CE1	24:Q:228:GLU:OE2	2.61	0.54
24:Q:430:ALA:HB1	28:U:296:ILE:HG21	1.89	0.54
25:R:35:GLN:O	25:R:42:GLN:NE2	2.40	0.54
25:R:334:ARG:CZ	25:R:367:ASP:HB2	2.38	0.54
26:S:285:ASP:OD1	26:S:286:TYR:N	2.41	0.54
33:Z:204:CYS:O	33:Z:207:ILE:N	2.41	0.54
33:Z:369:PHE:CD1	33:Z:369:PHE:N	2.75	0.54
33:Z:505:VAL:HG13	33:Z:530:LEU:HD21	1.90	0.54
33:Z:765:MET:O	33:Z:773:ARG:HG2	2.08	0.54
33:Z:920:GLY:HA2	33:Z:982:ILE:HD13	1.89	0.54
33:Z:927:VAL:HG23	33:Z:928:ARG:O	2.07	0.54
33:Z:970:TYR:OH	33:Z:991:GLU:OE2	2.24	0.54
9:b:148:TYR:HE1	9:b:158:PRO:HB3	1.72	0.54
11:d:239:GLU:HA	11:d:242:GLU:CD	2.33	0.54
12:e:48:LEU:HD11	12:e:145:ALA:HB2	1.90	0.54
3:h:103:GLU:O	3:h:107:GLU:N	2.41	0.54
3:h:148:SER:OG	3:h:188:SER:OG	2.26	0.54
5:j:54:THR:O	5:j:106:GLY:N	2.41	0.54
5:j:113:ASN:O	5:j:117:GLY:N	2.40	0.54
6:k:137:GLY:HA2	6:k:140:THR:OG1	2.08	0.54
1:1:220:GLY:HA2	1:1:237:GLU:HA	1.89	0.53
3:3:33:LEU:HB3	3:3:53:LEU:HD22	1.89	0.53
4:4:41:VAL:O	4:4:207:MET:N	2.39	0.53
4:4:50:THR:HG22	4:4:55:VAL:HA	1.90	0.53
5:5:51:LEU:HD21	5:5:53:ILE:HD11	1.89	0.53
6:6:143:LEU:O	6:6:147:HIS:N	2.32	0.53
8:A:179:THR:HG22	8:A:183:GLU:CD	2.32	0.53
8:A:228:ALA:HA	8:A:233:PHE:HA	1.90	0.53
9:B:149:GLN:O	9:B:156:TYR:HA	2.09	0.53
11:D:48:ARG:HB2	11:D:209:ASN:HA	1.89	0.53
11:D:68:ASP:OD2	11:D:70:HIS:CE1	2.62	0.53
12:E:168:ASN:OD1	13:F:56:LEU:HA	2.08	0.53
14:G:52:LYS:HD2	14:G:215:GLU:HB2	1.89	0.53
14:G:214:LEU:HD21	14:G:216:ILE:HD11	1.89	0.53
16:I:103:PRO:O	16:I:151:HIS:NE2	2.41	0.53
18:K:190:LEU:O	18:K:194:GLN:N	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:217:THR:HA	18:K:381:ALA:HB2	1.88	0.53
19:L:77:ARG:HG3	20:M:19:ASP:OD2	2.08	0.53
19:L:80:ASN:HA	19:L:83:ASP:CG	2.33	0.53
19:L:337:LEU:HD12	19:L:342:ARG:HB3	1.89	0.53
19:L:370:LYS:HE2	19:L:410:ILE:HG13	1.88	0.53
20:M:13:PRO:O	20:M:17:GLU:HG3	2.08	0.53
20:M:147:GLY:O	20:M:157:ASP:N	2.41	0.53
21:N:214:LEU:O	21:N:217:MET:N	2.38	0.53
21:N:419:THR:O	21:N:423:LEU:N	2.25	0.53
21:N:512:ASN:HA	21:N:515:ARG:HB3	1.90	0.53
21:N:646:LYS:C	21:N:653:ARG:HH21	2.16	0.53
22:O:76:LEU:HD21	22:O:79:VAL:HG13	1.90	0.53
22:O:266:PHE:CD1	22:O:269:LEU:HD12	2.39	0.53
22:O:352:TRP:CD1	22:O:354:GLN:H	2.27	0.53
22:O:370:LEU:CB	28:U:200:LEU:HD13	2.30	0.53
23:P:39:LEU:HA	23:P:62:ILE:HD13	1.90	0.53
23:P:43:GLU:HA	23:P:85:LYS:HZ1	1.73	0.53
23:P:71:LYS:HB3	23:P:73:ASP:HB2	1.89	0.53
23:P:164:GLN:HA	23:P:176:LYS:CE	2.38	0.53
23:P:311:TRP:HE1	23:P:338:TRP:NE1	2.06	0.53
23:P:335:LYS:HA	23:P:338:TRP:HB3	1.90	0.53
23:P:373:GLU:O	23:P:376:THR:HB	2.08	0.53
23:P:396:PRO:HG2	24:Q:356:CYS:O	2.08	0.53
24:Q:34:ASP:O	24:Q:50:ARG:HG2	2.08	0.53
24:Q:181:GLU:HG2	24:Q:185:TYR:CE2	2.43	0.53
24:Q:369:ASP:HB2	24:Q:372:GLN:CB	2.38	0.53
25:R:30:ALA:O	25:R:34:THR:HG23	2.08	0.53
25:R:31:PHE:CZ	25:R:320:LYS:HA	2.43	0.53
25:R:292:LEU:HB3	25:R:307:TYR:CB	2.38	0.53
26:S:383:LEU:HA	26:S:386:ASN:HD22	1.73	0.53
26:S:437:ASN:HB3	26:S:439:GLU:CG	2.36	0.53
27:T:131:LYS:HD3	27:T:134:LYS:HD3	1.90	0.53
28:U:127:GLN:NE2	29:V:212:MET:HB2	2.22	0.53
28:U:275:VAL:HA	28:U:278:ILE:HD12	1.90	0.53
29:V:258:GLU:CG	29:V:259:LYS:N	2.71	0.53
30:W:17:ARG:NH1	30:W:18:ASN:HB2	2.23	0.53
30:W:125:LEU:HD13	30:W:153:LEU:HB3	1.91	0.53
31:X:85:ARG:HE	31:X:117:LYS:HB3	1.72	0.53
33:Z:497:PHE:HB3	33:Z:533:VAL:HG13	1.90	0.53
33:Z:762:GLY:O	33:Z:766:HIS:N	2.41	0.53
33:Z:916:LEU:HD22	33:Z:921:GLU:C	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:189:ILE:O	9:b:193:LEU:HG	2.07	0.53
10:c:69:LEU:HA	10:c:92:ARG:HG2	1.90	0.53
12:e:109:VAL:O	12:e:113:THR:N	2.20	0.53
12:e:219:LEU:HB2	12:e:231:TYR:HB2	1.90	0.53
12:e:223:THR:OG1	12:e:226:ASP:HB2	2.08	0.53
14:g:11:SER:CB	14:g:127:ASN:HB2	2.34	0.53
4:i:243:LYS:HB3	5:j:199:TYR:HD2	1.73	0.53
7:l:230:TYR:HA	7:l:233:LYS:HB3	1.90	0.53
7:l:262:TYR:OH	7:l:265:ASN:N	2.41	0.53
2:2:145:ASN:H	2:2:165:LEU:HD23	1.73	0.53
2:2:219:TYR:OH	2:2:250:MET:HA	2.08	0.53
3:3:38:ARG:C	3:3:52:LYS:HZ3	2.10	0.53
3:3:106:TYR:CD2	3:3:107:GLU:OE2	2.61	0.53
4:4:104:ARG:HD2	8:A:110:TYR:CD1	2.43	0.53
5:5:177:ARG:HH12	7:l:103:SER:HA	1.72	0.53
6:6:19:LYS:HG2	6:6:180:ILE:HG13	1.90	0.53
6:6:27:VAL:O	6:k:171:ARG:NH1	2.38	0.53
7:7:114:PRO:HA	7:7:260:TRP:NE1	2.23	0.53
7:7:119:THR:HG1	7:7:175:MET:H	1.53	0.53
7:7:156:LYS:N	7:7:196:ARG:HE	2.06	0.53
1:8:57:ARG:HE	2:9:189:ARG:HD3	1.72	0.53
14:G:218:TRP:HD1	14:G:231:VAL:HG23	1.73	0.53
15:H:98:GLN:HG2	15:H:283:TYR:CD1	2.44	0.53
16:I:89:GLN:HA	16:I:92:GLU:CD	2.33	0.53
16:I:111:GLU:HB2	16:I:119:ILE:HG22	1.90	0.53
17:J:39:GLU:HB3	26:S:480:ARG:CZ	2.38	0.53
17:J:247:MET:O	17:J:250:ILE:HG22	2.09	0.53
17:J:381:ASP:O	17:J:385:ALA:N	2.31	0.53
18:K:56:LYS:HZ3	21:N:196:THR:CG2	2.22	0.53
18:K:238:ASN:HA	18:K:272:ASP:HB2	1.90	0.53
20:M:232:ALA:O	20:M:236:ALA:N	2.37	0.53
20:M:379:LEU:HA	20:M:419:ILE:HD11	1.88	0.53
21:N:20:VAL:HG13	27:T:35:ILE:HD11	1.88	0.53
21:N:293:LEU:HD13	21:N:379:LEU:HD12	1.89	0.53
21:N:582:ASP:O	21:N:586:ALA:N	2.31	0.53
22:O:233:LEU:HD12	22:O:236:HIS:CG	2.43	0.53
22:O:284:GLU:HA	22:O:287:LEU:HB2	1.89	0.53
23:P:182:GLU:O	23:P:186:LEU:N	2.30	0.53
23:P:345:VAL:O	23:P:349:ASN:N	2.20	0.53
23:P:395:ARG:HB2	23:P:396:PRO:HD3	1.90	0.53
24:Q:83:GLU:O	24:Q:87:GLN:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:344:GLU:CD	24:Q:376:LYS:HE2	2.33	0.53
25:R:29:LYS:HA	25:R:32:LEU:HD12	1.90	0.53
25:R:315:VAL:C	25:R:318:PRO:HD2	2.33	0.53
25:R:336:LYS:HZ2	25:R:340:GLN:NE2	2.06	0.53
25:R:415:GLN:O	25:R:419:ALA:N	2.41	0.53
26:S:338:MET:N	26:S:342:LEU:H	2.05	0.53
26:S:474:GLU:O	26:S:477:VAL:HB	2.07	0.53
26:S:474:GLU:O	26:S:477:VAL:N	2.41	0.53
28:U:76:MET:HG2	28:U:80:CYS:SG	2.47	0.53
30:W:162:ASN:ND2	30:W:169:SER:O	2.41	0.53
31:X:36:LYS:O	31:X:46:TRP:HA	2.08	0.53
31:X:39:GLU:HG2	31:X:47:ASP:OD2	2.08	0.53
33:Z:119:LEU:HA	33:Z:122:LEU:HB3	1.90	0.53
33:Z:366:LYS:HE2	33:Z:859:LYS:CD	2.38	0.53
33:Z:433:LEU:HB3	33:Z:437:ASP:OD2	2.08	0.53
33:Z:967:THR:HA	33:Z:976:HIS:HE1	1.73	0.53
8:a:179:THR:HG22	8:a:183:GLU:CD	2.32	0.53
10:c:13:PHE:N	11:d:19:GLN:HE22	2.03	0.53
11:d:120:TYR:CD1	11:d:126:VAL:HG21	2.43	0.53
14:g:11:SER:HB3	14:g:127:ASN:HB3	1.87	0.53
4:i:46:ASP:OD2	4:i:198:SER:HA	2.08	0.53
5:j:29:LEU:HB2	5:j:40:PHE:HB3	1.90	0.53
6:k:29:LYS:HD3	6:k:32:ASP:HB2	1.91	0.53
6:k:104:ILE:N	6:k:117:TYR:O	2.26	0.53
6:k:161:LEU:O	6:k:165:VAL:HG23	2.09	0.53
7:l:276:LYS:HZ2	7:l:285:VAL:HB	1.73	0.53
1:1:32:LEU:HD21	1:1:34:ILE:HD11	1.91	0.53
2:2:258:ILE:HG23	4:4:150:VAL:HG13	1.90	0.53
3:3:102:LYS:HB2	3:3:138:VAL:HG21	1.90	0.53
3:3:148:SER:OG	3:3:188:SER:OG	2.26	0.53
3:3:185:ASP:OD1	3:3:186:GLY:N	2.41	0.53
5:5:11:ILE:CG2	5:5:142:ALA:H	2.21	0.53
5:5:58:THR:HB	6:6:124:THR:OG1	2.08	0.53
5:5:68:ARG:HH22	10:C:100:LYS:HA	1.72	0.53
5:5:69:TYR:CD1	10:C:96:GLN:HB3	2.43	0.53
5:5:78:GLU:OE1	5:5:80:ARG:NH2	2.42	0.53
5:5:114:SER:HA	5:5:192:LYS:HE2	1.90	0.53
6:6:146:HIS:HA	7:l:281:SER:HB2	1.90	0.53
7:7:119:THR:HG21	7:7:175:MET:HB2	1.89	0.53
7:7:230:TYR:HA	7:7:233:LYS:HB3	1.90	0.53
7:7:251:ASN:HD22	7:7:265:ASN:HA	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:81:ASN:CG	2:9:122:PRO:HD3	2.33	0.53
2:9:219:TYR:OH	2:9:250:MET:HA	2.08	0.53
8:A:65:ASP:HB3	14:G:159:GLY:HA3	1.89	0.53
9:B:140:ASP:OD1	9:B:143:ASN:HB2	2.08	0.53
13:F:156:LEU:CD2	14:G:59:LEU:HA	2.37	0.53
14:G:78:TYR:CE2	14:G:82:ILE:HA	2.43	0.53
14:G:123:HIS:NE2	14:G:132:PHE:CE1	2.76	0.53
15:H:191:ILE:HA	15:H:192:ASP:CB	2.39	0.53
15:H:381:ASP:OD1	15:H:384:GLY:N	2.19	0.53
17:J:346:VAL:HA	17:J:383:GLU:HG2	1.89	0.53
18:K:141:ARG:NH1	19:L:153:LEU:HD12	2.23	0.53
19:L:226:THR:HA	19:L:388:GLY:H	1.72	0.53
20:M:352:PRO:HG2	20:M:357:ARG:HG2	1.90	0.53
21:N:124:TYR:CD2	21:N:162:ARG:NH1	2.76	0.53
21:N:734:VAL:O	21:N:737:SER:OG	2.16	0.53
21:N:861:TYR:HB2	21:N:881:TYR:HD1	1.71	0.53
21:N:880:ARG:HA	21:N:896:PHE:HE2	1.72	0.53
22:O:41:LEU:HD11	22:O:81:TYR:CD1	2.43	0.53
22:O:327:LEU:HA	22:O:330:ARG:HG2	1.89	0.53
23:P:75:LEU:O	23:P:79:LEU:HG	2.09	0.53
23:P:287:ASP:CB	23:P:294:GLU:HG2	2.38	0.53
23:P:320:PRO:HG2	23:P:322:LEU:HG	1.91	0.53
23:P:422:LEU:CD2	23:P:426:ILE:CG1	2.86	0.53
24:Q:31:LEU:HD21	24:Q:58:ILE:HD11	1.91	0.53
24:Q:49:LYS:HA	24:Q:52:ASN:ND2	2.23	0.53
24:Q:50:ARG:O	24:Q:54:GLN:N	2.36	0.53
24:Q:139:ILE:HD11	24:Q:165:PHE:CE2	2.42	0.53
26:S:296:ALA:O	26:S:300:ALA:CB	2.52	0.53
26:S:369:GLN:HA	26:S:372:LEU:HB3	1.88	0.53
27:T:125:GLU:HA	27:T:128:TYR:HB3	1.89	0.53
28:U:140:ILE:C	28:U:153:THR:C	2.76	0.53
28:U:191:THR:HG22	29:V:232:GLU:OE2	2.08	0.53
29:V:118:LEU:HD21	29:V:140:VAL:HG13	1.91	0.53
30:W:33:VAL:O	30:W:37:PHE:N	2.32	0.53
31:X:28:PRO:O	31:X:29:VAL:HG22	2.08	0.53
33:Z:326:VAL:HG13	33:Z:330:ILE:HD12	1.89	0.53
33:Z:842:GLN:HA	33:Z:845:LEU:HB3	1.89	0.53
8:a:156:LYS:NZ	8:a:175:GLN:NE2	2.52	0.53
8:a:228:ALA:HA	8:a:233:PHE:HA	1.91	0.53
9:b:97:TYR:CZ	9:b:105:PRO:HA	2.43	0.53
10:c:76:ALA:HB3	10:c:136:ILE:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:24:LEU:O	11:d:28:LYS:HG3	2.08	0.53
11:d:48:ARG:HB2	11:d:209:ASN:HA	1.89	0.53
11:d:171:VAL:O	11:d:174:PHE:HB3	2.07	0.53
12:e:204:LEU:C	12:e:208:MET:HG3	2.33	0.53
13:f:55:GLU:H	13:f:55:GLU:CD	2.15	0.53
14:g:51:GLU:HG3	14:g:212:PHE:CD2	2.42	0.53
14:g:130:ARG:HH11	14:g:130:ARG:HG2	1.74	0.53
5:j:44:PHE:O	5:j:51:LEU:N	2.30	0.53
5:j:197:LYS:HE2	5:j:199:TYR:CE1	2.43	0.53
6:k:36:ARG:C	6:k:43:LEU:HD12	2.33	0.53
6:k:160:LEU:HD12	6:k:163:LEU:HD23	1.91	0.53
7:l:251:ASN:HD22	7:l:265:ASN:HA	1.73	0.53
1:1:49:ILE:HA	1:1:55:ASN:H	1.73	0.53
2:2:94:GLN:HE22	3:h:138:VAL:H	1.56	0.53
2:2:96:ILE:HA	2:2:99:LEU:HD12	1.89	0.53
4:4:65:ARG:HG3	4:4:67:SER:O	2.08	0.53
5:5:38:ASN:ND2	7:l:285:VAL:HA	2.24	0.53
5:5:149:MET:O	5:5:153:LEU:N	2.27	0.53
6:6:40:PRO:HG2	6:6:74:GLU:OE1	2.07	0.53
6:6:104:ILE:N	6:6:117:TYR:O	2.26	0.53
6:6:153:THR:HG23	6:6:156:GLU:OE2	2.08	0.53
7:7:76:THR:HG23	7:7:108:LYS:NZ	2.23	0.53
2:9:58:ASP:H	2:9:74:ARG:NH2	2.00	0.53
2:9:136:ARG:HH12	2:9:143:LEU:HD21	1.73	0.53
2:9:253:ASP:CG	2:9:256:LYS:HZ1	2.16	0.53
8:A:33:LYS:HB2	14:G:19:GLY:HA3	1.90	0.53
8:A:43:LEU:HD11	8:A:54:ILE:HG12	1.91	0.53
10:C:7:ASP:OD2	11:D:6:ARG:HD3	2.08	0.53
10:C:90:THR:O	10:C:93:ILE:HB	2.07	0.53
11:D:120:TYR:CD1	11:D:126:VAL:HG21	2.43	0.53
12:E:204:LEU:C	12:E:208:MET:HG3	2.33	0.53
14:G:126:TYR:HB2	14:G:129:VAL:CG2	2.38	0.53
15:H:77:ALA:HB3	15:H:170:GLU:HB3	1.88	0.53
15:H:201:GLU:OE2	15:H:204:PRO:HA	2.08	0.53
17:J:277:ASN:ND2	17:J:309:ARG:HH21	2.05	0.53
18:K:99:PHE:HB3	18:K:135:MET:N	2.22	0.53
18:K:344:ARG:NH2	18:K:380:GLY:H	2.06	0.53
19:L:70:TYR:CE2	20:M:5:GLU:HA	2.43	0.53
20:M:224:PRO:C	20:M:226:THR:H	2.17	0.53
21:N:34:GLN:HA	26:S:215:MET:HE3	1.90	0.53
21:N:55:PHE:CE2	21:N:57:ASP:HB2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:308:ASN:C	21:N:711:ARG:NH1	2.66	0.53
21:N:515:ARG:CZ	21:N:515:ARG:HB2	2.38	0.53
21:N:603:PRO:O	21:N:607:GLN:N	2.37	0.53
21:N:916:LEU:HG	21:N:918:GLU:OE2	2.08	0.53
23:P:196:ALA:O	23:P:199:LEU:HB2	2.09	0.53
24:Q:65:TYR:CD2	24:Q:74:LEU:HB2	2.44	0.53
24:Q:275:ILE:HG22	24:Q:279:LYS:NZ	2.23	0.53
24:Q:288:LYS:HE3	24:Q:290:THR:HA	1.89	0.53
26:S:237:ILE:HA	26:S:240:ASP:HB2	1.91	0.53
26:S:438:HIS:C	26:S:441:GLY:H	2.17	0.53
28:U:77:ASN:HB3	28:U:81:LYS:HZ1	1.71	0.53
29:V:258:GLU:CG	29:V:259:LYS:H	2.21	0.53
30:W:53:SER:OG	30:W:60:ARG:HG2	2.09	0.53
30:W:57:ALA:C	30:W:86:HIS:CE1	2.86	0.53
30:W:122:ARG:HG2	30:W:153:LEU:HD21	1.91	0.53
30:W:181:LEU:O	30:W:185:ILE:HG12	2.08	0.53
33:Z:305:VAL:HG22	33:Z:919:GLU:O	2.09	0.53
33:Z:366:LYS:NZ	33:Z:369:PHE:CZ	2.77	0.53
33:Z:381:LEU:HD12	33:Z:410:THR:HB	1.91	0.53
33:Z:444:GLU:HG2	33:Z:446:GLU:H	1.74	0.53
8:a:163:TYR:HE1	9:b:83:ARG:HH11	1.56	0.53
10:c:201:THR:HG22	10:c:203:SER:H	1.73	0.53
11:d:162:GLN:NE2	11:d:163:THR:H	2.05	0.53
12:e:22:PHE:HB3	12:e:26:TYR:CE2	2.44	0.53
13:f:52:ASN:HB3	13:f:59:TYR:CD2	2.43	0.53
13:f:191:LYS:HA	13:f:194:VAL:HB	1.90	0.53
13:f:213:ILE:O	13:f:225:TYR:N	2.18	0.53
6:k:19:LYS:HA	6:k:32:ASP:O	2.07	0.53
7:l:92:ASP:OD2	7:l:246:SER:HA	2.08	0.53
7:l:156:LYS:N	7:l:196:ARG:HE	2.06	0.53
7:l:253:TYR:CZ	7:l:262:TYR:CD1	2.96	0.53
7:l:267:ASP:OD2	7:l:270:GLU:HG3	2.08	0.53
1:1:47:ARG:HG3	1:1:219:ASP:OD2	2.09	0.53
2:2:120:LEU:HD23	13:f:101:ARG:NH1	2.23	0.53
2:2:127:GLU:HG2	13:f:99:PHE:C	2.34	0.53
4:4:93:GLU:CD	9:B:94:HIS:HE2	2.15	0.53
4:4:206:VAL:N	4:4:214:GLU:O	2.41	0.53
5:5:186:VAL:HG21	5:5:197:LYS:HE3	1.90	0.53
6:6:29:LYS:HD3	6:6:32:ASP:HB2	1.91	0.53
2:9:37:PRO:HD3	2:9:144:TRP:CE2	2.44	0.53
2:9:109:TYR:HB3	14:G:93:ARG:NH1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:13:SER:O	9:B:16:GLY:N	2.29	0.53
10:C:69:LEU:HB2	10:C:73:ILE:HG22	1.89	0.53
11:D:151:GLU:HG2	11:D:155:ILE:O	2.08	0.53
12:E:201:LEU:CD2	12:E:243:LEU:HD21	2.36	0.53
12:E:223:THR:OG1	12:E:226:ASP:HB2	2.08	0.53
13:F:14:SER:HG	13:F:16:THR:HG1	1.53	0.53
13:F:69:HIS:HE1	13:F:70:MET:HE3	1.73	0.53
14:G:170:GLN:NE2	14:G:173:LYS:NZ	2.57	0.53
15:H:60:GLU:HB3	15:H:64:LYS:CE	2.38	0.53
15:H:107:LYS:HE2	29:V:76:THR:O	2.09	0.53
16:I:148:LEU:CB	16:I:157:VAL:HB	2.27	0.53
16:I:172:LYS:HE2	16:I:234:LYS:HZ1	1.74	0.53
16:I:248:VAL:O	16:I:252:LEU:CD1	2.56	0.53
17:J:153:LEU:CB	17:J:316:PHE:CZ	2.62	0.53
18:K:353:PHE:HB3	18:K:368:LEU:HD13	1.89	0.53
19:L:418:ALA:O	19:L:422:VAL:HG23	2.09	0.53
20:M:245:LYS:HZ2	20:M:279:PHE:HE2	1.57	0.53
20:M:354:GLU:HA	20:M:357:ARG:NH2	2.24	0.53
21:N:204:SER:CB	21:N:208:ARG:HH12	2.15	0.53
21:N:345:ASP:OD1	21:N:346:ASN:N	2.41	0.53
21:N:743:PHE:HB2	21:N:744:PRO:HD3	1.90	0.53
22:O:287:LEU:C	22:O:291:ILE:HG12	2.33	0.53
22:O:374:ASN:O	22:O:377:VAL:HB	2.09	0.53
23:P:19:LYS:HA	23:P:34:SER:CB	2.36	0.53
23:P:173:MET:O	23:P:177:ILE:HG12	2.09	0.53
23:P:362:LEU:N	23:P:398:LYS:O	2.42	0.53
27:T:33:GLU:HB3	27:T:37:ASN:HD21	1.73	0.53
27:T:178:THR:O	27:T:182:LYS:HG3	2.08	0.53
27:T:249:MET:HG2	27:T:250:MET:HG3	1.91	0.53
28:U:57:GLU:OE1	30:W:96:LEU:HB3	2.07	0.53
28:U:140:ILE:CA	28:U:153:THR:HB	2.34	0.53
28:U:164:GLU:O	28:U:167:GLU:HB2	2.09	0.53
32:Y:71:ASP:OD2	32:Y:75:ASN:ND2	2.40	0.53
33:Z:344:LYS:O	33:Z:348:LEU:N	2.42	0.53
33:Z:574:TYR:CD2	33:Z:584:VAL:HG21	2.44	0.53
33:Z:915:ALA:HB2	33:Z:927:VAL:HG13	1.89	0.53
8:a:71:TYR:H	8:a:224:GLU:CD	2.17	0.53
8:a:96:ARG:HB2	8:a:121:MET:HE1	1.91	0.53
9:b:224:TYR:CZ	4:i:65:ARG:NH1	2.76	0.53
12:e:72:ARG:O	12:e:228:PHE:N	2.37	0.53
14:g:59:LEU:O	14:g:61:PRO:HD3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:78:TYR:HB3	14:g:136:THR:HG23	1.90	0.53
3:h:86:THR:HA	3:h:90:GLY:O	2.08	0.53
4:i:243:LYS:HB3	5:j:199:TYR:CD2	2.44	0.53
5:j:78:GLU:OE1	5:j:80:ARG:NH2	2.42	0.53
5:j:145:GLN:O	5:j:149:MET:HG2	2.07	0.53
6:k:66:LEU:HD21	6:k:70:ARG:HH22	1.74	0.53
7:l:87:ILE:O	7:l:255:VAL:N	2.32	0.53
7:l:270:GLU:O	7:l:274:LYS:N	2.28	0.53
1:1:67:ASP:CG	1:1:102:LYS:HG3	2.34	0.53
2:2:253:ASP:OD2	4:4:173:GLN:NE2	2.40	0.53
4:4:60:CYS:C	4:4:217:ARG:HH12	2.17	0.53
4:4:164:MET:O	4:4:168:GLU:N	2.38	0.53
4:4:245:SER:OG	5:5:197:LYS:HB3	2.08	0.53
6:6:55:GLN:HG3	7:7:163:TYR:CE1	2.43	0.53
7:7:82:ARG:CG	7:7:185:PRO:HB2	2.38	0.53
7:7:88:ILE:HD11	7:7:225:VAL:HG13	1.90	0.53
7:7:125:ALA:HA	7:7:128:GLN:HB3	1.91	0.53
7:7:276:LYS:HZ2	7:7:285:VAL:CB	2.20	0.53
1:8:30:THR:HG23	1:8:158:GLY:O	2.08	0.53
1:8:48:ASN:CG	1:8:55:ASN:HB2	2.33	0.53
8:A:42:SER:O	8:A:171:THR:N	2.32	0.53
8:A:156:LYS:HZ1	8:A:175:GLN:HE22	1.54	0.53
10:C:58:GLU:OE2	10:C:60:ASP:HB2	2.08	0.53
10:C:76:ALA:HB3	10:C:136:ILE:HB	1.91	0.53
10:C:122:TYR:CD2	10:C:130:PRO:HA	2.44	0.53
11:D:227:GLU:H	11:D:227:GLU:CD	2.15	0.53
12:E:15:PHE:HE2	13:F:127:PRO:HD2	1.74	0.53
12:E:177:GLU:HG2	12:E:178:GLY:N	2.23	0.53
13:F:64:ILE:HG21	13:F:85:SER:HB2	1.90	0.53
13:F:75:ALA:O	13:F:130:VAL:HG23	2.09	0.53
17:J:31:GLU:HG3	18:K:55:GLU:OE2	2.09	0.53
18:K:67:TYR:CD1	21:N:572:LEU:HD13	2.44	0.53
18:K:290:ARG:O	18:K:293:GLN:HB2	2.09	0.53
19:L:115:GLU:HG3	19:L:116:LYS:HG3	1.91	0.53
19:L:147:THR:HB	19:L:157:ARG:HB3	1.90	0.53
19:L:168:TYR:N	19:L:170:MET:O	2.42	0.53
22:O:93:ASP:HB3	22:O:97:LYS:HE3	1.90	0.53
23:P:222:ASN:O	23:P:225:VAL:HB	2.09	0.53
24:Q:35:SER:HB2	24:Q:46:VAL:O	2.09	0.53
24:Q:98:LYS:NZ	24:Q:137:LEU:N	2.56	0.53
24:Q:140:LYS:HA	24:Q:143:THR:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:389:VAL:HG23	24:Q:398:TYR:HB3	1.90	0.53
24:Q:415:LEU:O	24:Q:419:LEU:HG	2.08	0.53
26:S:360:PHE:CD2	26:S:384:ARG:NH1	2.77	0.53
26:S:409:LEU:HD12	26:S:412:ASN:HB2	1.90	0.53
33:Z:281:ALA:O	33:Z:285:ALA:N	2.39	0.53
33:Z:354:PRO:HG3	33:Z:922:PRO:HG3	1.89	0.53
33:Z:538:CYS:SG	33:Z:580:GLN:HB3	2.49	0.53
10:c:90:THR:HA	10:c:93:ILE:HD12	1.91	0.53
10:c:91:ALA:HB1	10:c:111:LEU:HD11	1.90	0.53
10:c:139:GLY:O	10:c:147:GLN:N	2.35	0.53
14:g:13:SER:H	14:g:127:ASN:HA	1.73	0.53
14:g:126:TYR:O	14:g:129:VAL:HG22	2.08	0.53
4:i:50:THR:HA	4:i:56:ALA:N	2.19	0.53
7:l:110:ILE:CG1	7:l:131:GLU:OE1	2.55	0.53
7:l:165:TYR:HB3	7:l:168:ALA:HB3	1.89	0.53
7:l:181:ARG:HB2	7:l:257:GLU:OE2	2.08	0.53
2:2:231:ALA:HB2	2:2:241:PHE:HD1	1.73	0.53
3:3:133:PRO:HB3	2:9:68:ARG:NH1	2.24	0.53
4:4:84:VAL:HA	4:4:87:LEU:HB3	1.90	0.53
4:4:104:ARG:NH1	8:A:148:GLU:OE2	2.38	0.53
6:6:36:ARG:C	6:6:43:LEU:HD12	2.34	0.53
2:9:52:GLY:N	2:9:158:GLN:HE21	2.06	0.53
2:9:261:TYR:OH	3:h:72:GLN:O	2.21	0.53
8:A:71:TYR:H	8:A:224:GLU:CD	2.17	0.53
9:B:97:TYR:CZ	9:B:105:PRO:HA	2.44	0.53
9:B:189:ILE:O	9:B:193:LEU:HG	2.07	0.53
10:C:119:LYS:HD3	10:C:152:ASN:O	2.09	0.53
11:D:36:VAL:O	11:D:43:VAL:N	2.28	0.53
12:E:69:GLU:OE2	12:E:71:ASP:C	2.52	0.53
12:E:178:GLY:O	12:E:182:GLU:HG2	2.09	0.53
13:F:52:ASN:HB3	13:F:59:TYR:CD2	2.43	0.53
13:F:112:LEU:HA	13:F:115:LYS:HB3	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:341:PRO:C	2.33	0.53
16:I:173:MET:HE2	16:I:270:VAL:HG11	1.90	0.53
16:I:342:GLY:N	16:I:345:ASP:OD1	2.34	0.53
17:J:160:ILE:O	17:J:164:ILE:N	2.41	0.53
17:J:186:ILE:HB	17:J:310:ILE:HD13	1.91	0.53
17:J:250:ILE:HD12	17:J:260:GLY:HA2	1.90	0.53
17:J:305:LEU:HD13	17:J:313:LYS:NZ	2.23	0.53
18:K:177:LEU:C	18:K:181:LYS:HE2	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:190:LEU:HB3	18:K:191:PRO:HD3	1.91	0.53
19:L:365:THR:HA	19:L:395:ALA:HB2	1.89	0.53
20:M:283:LEU:O	20:M:287:GLY:N	2.41	0.53
21:N:124:TYR:CD2	21:N:162:ARG:HG2	2.44	0.53
21:N:647:ASP:OD2	21:N:652:VAL:HG21	2.09	0.53
21:N:738:GLN:HG2	21:N:741:TYR:CE1	2.44	0.53
22:O:95:SER:HB3	22:O:135:ARG:HH11	1.74	0.53
22:O:338:LYS:HB2	22:O:351:SER:HB2	1.90	0.53
22:O:371:VAL:O	22:O:374:ASN:HB3	2.07	0.53
23:P:56:LYS:HZ3	23:P:91:LEU:CB	2.22	0.53
23:P:124:VAL:C	23:P:136:ARG:HB3	2.33	0.53
23:P:147:LYS:HA	23:P:150:GLU:OE1	2.09	0.53
23:P:157:ALA:HB2	23:P:186:LEU:HB3	1.89	0.53
23:P:277:GLN:O	23:P:281:ILE:N	2.42	0.53
23:P:415:TRP:HA	23:P:418:ASN:ND2	2.24	0.53
24:Q:213:GLN:O	24:Q:217:GLU:N	2.26	0.53
25:R:77:SER:HB3	25:R:89:ASN:O	2.09	0.53
25:R:170:VAL:O	25:R:174:ILE:HG12	2.08	0.53
25:R:383:ARG:HB2	26:S:402:ILE:HG21	1.91	0.53
26:S:22:GLU:N	26:S:22:GLU:OE1	2.40	0.53
26:S:234:ILE:HG22	26:S:238:LEU:HG	1.91	0.53
29:V:237:ASN:N	29:V:238:LEU:O	2.42	0.53
29:V:261:LEU:HD22	29:V:280:LEU:CD2	2.39	0.53
31:X:29:VAL:O	31:X:29:VAL:HG23	2.09	0.53
31:X:37:PRO:HG2	31:X:41:GLU:HA	1.89	0.53
33:Z:279:THR:HG23	33:Z:974:THR:HG23	1.90	0.53
33:Z:505:VAL:HA	33:Z:508:LEU:HD12	1.88	0.53
33:Z:572:ILE:HA	33:Z:575:MET:HE3	1.89	0.53
8:a:100:GLU:O	8:a:104:PHE:N	2.23	0.53
9:b:140:ASP:OD1	9:b:143:ASN:HB2	2.08	0.53
9:b:205:ASN:O	9:b:209:ILE:HG12	2.09	0.53
10:c:93:ILE:HG23	5:j:69:TYR:OH	2.09	0.53
11:d:227:GLU:O	11:d:231:GLN:HG3	2.09	0.53
13:f:2:PHE:O	13:f:5:ASN:HB2	2.08	0.53
13:f:75:ALA:O	13:f:130:VAL:HG23	2.09	0.53
13:f:119:ASN:HB3	13:f:127:PRO:HA	1.89	0.53
14:g:123:HIS:NE2	14:g:132:PHE:CE1	2.77	0.53
3:h:85:TYR:CE1	3:h:89:TYR:HB2	2.44	0.53
6:k:66:LEU:HG	6:k:70:ARG:NH1	2.22	0.53
1:1:116:LEU:HD12	1:1:148:GLY:HA2	1.91	0.53
2:2:113:LEU:HB2	2:2:118:GLU:CG	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:160:LEU:O	2:2:171:SER:OG	2.20	0.53
3:3:103:GLU:O	3:3:107:GLU:N	2.41	0.53
3:3:171:VAL:HG13	3:3:194:MET:SD	2.49	0.53
4:4:46:ASP:OD2	4:4:198:SER:HA	2.08	0.53
4:4:87:LEU:O	4:4:90:SER:HB3	2.09	0.53
1:8:206:SER:O	1:8:210:ALA:N	2.28	0.53
8:A:30:TYR:CG	14:G:17:PRO:HA	2.43	0.53
8:A:46:ARG:NH2	9:B:57:MET:SD	2.82	0.53
8:A:84:ASN:HB2	8:A:140:ILE:HB	1.91	0.53
8:A:100:GLU:HG3	8:A:120:ARG:HG2	1.90	0.53
9:B:184:GLU:O	9:B:187:ASP:HB2	2.09	0.53
10:C:15:PRO:HA	11:D:22:TYR:CZ	2.43	0.53
13:F:187:ASP:HB3	13:F:191:LYS:NZ	2.23	0.53
15:H:56:LEU:HD22	15:H:60:GLU:HG3	1.91	0.53
15:H:208:TYR:OH	15:H:387:ASN:ND2	2.34	0.53
16:I:222:TYR:CE1	16:I:329:ASN:HA	2.44	0.53
16:I:354:ASP:O	16:I:358:LYS:N	2.29	0.53
16:I:372:SER:O	16:I:375:VAL:N	2.36	0.53
17:J:39:GLU:O	17:J:42:ARG:N	2.42	0.53
17:J:64:LEU:HD21	18:K:121:ARG:NE	2.19	0.53
17:J:209:LYS:O	17:J:244:ILE:N	2.42	0.53
18:K:184:ILE:O	18:K:188:VAL:N	2.41	0.53
18:K:205:PRO:O	18:K:308:GLN:NE2	2.42	0.53
18:K:213:GLY:O	18:K:219:LYS:NZ	2.36	0.53
18:K:283:ASP:HB3	18:K:285:GLN:NE2	2.24	0.53
18:K:412:ALA:O	18:K:415:VAL:HG22	2.09	0.53
19:L:88:TYR:CA	20:M:33:ARG:HH21	2.22	0.53
19:L:92:GLU:HB2	20:M:29:GLU:OE1	2.09	0.53
19:L:145:ARG:O	19:L:159:LEU:N	2.32	0.53
19:L:354:GLU:OE2	19:L:380:VAL:HG12	2.09	0.53
19:L:390:ASP:HA	19:L:393:ASN:ND2	2.24	0.53
20:M:334:ASP:O	20:M:337:LEU:N	2.41	0.53
20:M:370:THR:HA	20:M:410:VAL:N	2.22	0.53
22:O:15:ARG:HD2	30:W:144:PHE:CE2	2.44	0.53
22:O:166:ARG:HH12	22:O:170:SER:CA	2.22	0.53
23:P:248:ASP:HA	23:P:251:LYS:H	1.74	0.53
23:P:254:GLU:OE2	23:P:288:ASN:CG	2.51	0.53
24:Q:124:PHE:CD1	24:Q:127:ARG:HD3	2.44	0.53
25:R:263:ARG:O	25:R:267:LYS:HG2	2.08	0.53
26:S:15:VAL:HG12	26:S:27:GLU:HA	1.91	0.53
26:S:231:ALA:HA	26:S:234:ILE:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:306:SER:O	26:S:310:LEU:HB3	2.08	0.53
26:S:362:SER:O	26:S:366:LYS:N	2.33	0.53
27:T:145:PRO:O	27:T:149:ASP:N	2.28	0.53
27:T:213:ASN:OD1	27:T:215:LYS:N	2.35	0.53
28:U:24:ARG:HE	29:V:100:ARG:CZ	2.21	0.53
30:W:7:VAL:HB	30:W:110:ILE:HG12	1.91	0.53
33:Z:138:ARG:HH21	33:Z:158:ALA:HB2	1.74	0.53
33:Z:336:SER:O	33:Z:340:LEU:N	2.41	0.53
33:Z:418:ALA:O	33:Z:422:ILE:HG13	2.08	0.53
8:a:42:SER:HA	8:a:55:SER:HA	1.91	0.53
9:b:44:VAL:HA	9:b:213:ILE:HA	1.90	0.53
9:b:149:GLN:O	9:b:156:TYR:HA	2.09	0.53
11:d:203:VAL:HG21	11:d:210:ILE:HG12	1.91	0.53
12:e:69:GLU:OE2	7:l:139:ARG:NH2	2.32	0.53
13:f:38:LEU:HD21	13:f:189:LEU:O	2.07	0.53
13:f:85:SER:O	13:f:89:ARG:N	2.27	0.53
14:g:218:TRP:HE1	14:g:230:PHE:C	2.17	0.53
4:i:60:CYS:C	4:i:217:ARG:HH12	2.17	0.53
4:i:164:MET:O	4:i:168:GLU:N	2.38	0.53
5:j:114:SER:HA	5:j:192:LYS:HE2	1.90	0.53
6:k:41:HIS:CG	6:k:109:LYS:HD3	2.44	0.53
7:l:276:LYS:HZ2	7:l:285:VAL:HG12	1.73	0.53
1:1:96:PHE:CD2	13:f:89:ARG:HD3	2.44	0.53
2:2:81:ASN:O	2:2:151:GLY:HA2	2.09	0.53
2:2:252:TRP:CZ3	3:3:48:ARG:NH1	2.77	0.53
3:3:36:ASP:OD2	3:3:188:SER:HA	2.09	0.53
6:6:161:LEU:O	6:6:165:VAL:HG23	2.09	0.53
6:6:162:LYS:HZ1	6:6:197:ALA:HA	1.73	0.53
7:7:158:LEU:HD12	7:7:161:LEU:HD23	1.91	0.53
8:A:181:ASN:HD21	8:A:212:ASP:HB2	1.73	0.53
9:B:4:ARG:HH12	12:E:126:GLY:HA3	1.74	0.53
9:B:146:SER:HB2	9:B:148:TYR:CZ	2.43	0.53
10:C:185:LYS:HG2	10:C:187:ASP:H	1.73	0.53
10:C:226:TYR:HE2	10:C:228:LYS:HB2	1.74	0.53
13:F:17:GLY:HA3	14:G:26:TYR:O	2.09	0.53
14:G:35:THR:HG21	14:G:66:LYS:NZ	2.24	0.53
15:H:145:TYR:H	20:M:75:LEU:HB2	1.73	0.53
16:I:170:VAL:HB	16:I:251:GLU:HB3	1.91	0.53
17:J:43:ARG:NH1	26:S:477:VAL:HA	2.22	0.53
17:J:100:LYS:HZ3	21:N:690:HIS:CE1	2.27	0.53
17:J:163:VAL:HA	17:J:182:PRO:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:120:VAL:HB	18:K:145:ALA:HA	1.91	0.53
18:K:207:ARG:HB2	18:K:333:ARG:HA	1.90	0.53
18:K:219:LYS:O	18:K:222:LEU:HB2	2.09	0.53
20:M:173:ASP:O	20:M:243:PHE:HB3	2.09	0.53
21:N:124:TYR:C	21:N:162:ARG:HH12	2.17	0.53
21:N:286:LEU:O	21:N:290:LEU:HG	2.09	0.53
21:N:498:ILE:HD11	21:N:528:ARG:HH12	1.73	0.53
21:N:515:ARG:HD3	21:N:738:GLN:NE2	2.24	0.53
21:N:660:LEU:O	21:N:664:LEU:HG	2.09	0.53
21:N:694:LEU:O	21:N:697:PHE:HB3	2.07	0.53
21:N:758:VAL:HA	21:N:903:VAL:HG12	1.90	0.53
22:O:45:LEU:HD21	30:W:17:ARG:CZ	2.39	0.53
22:O:95:SER:CB	22:O:135:ARG:HD2	2.31	0.53
22:O:262:ASP:C	22:O:284:GLU:OE2	2.52	0.53
22:O:301:PHE:CE2	22:O:308:LEU:HG	2.44	0.53
23:P:104:LEU:C	23:P:107:SER:HB2	2.34	0.53
23:P:351:ARG:O	23:P:354:SER:HB2	2.09	0.53
24:Q:75:ARG:HD3	24:Q:113:ASP:CG	2.33	0.53
24:Q:165:PHE:HD1	24:Q:169:ASP:HB3	1.73	0.53
24:Q:347:LEU:O	24:Q:351:ILE:HG23	2.09	0.53
25:R:108:SER:O	25:R:112:GLU:HG3	2.09	0.53
25:R:190:LYS:HA	25:R:193:ALA:HB3	1.89	0.53
25:R:218:CYS:HB2	25:R:223:ASN:OD1	2.09	0.53
26:S:185:PHE:HE1	26:S:192:GLU:OE2	1.92	0.53
26:S:202:ASN:O	27:T:93:ASN:ND2	2.41	0.53
26:S:237:ILE:HG22	26:S:241:PHE:CE2	2.43	0.53
26:S:322:LEU:C	26:S:325:GLY:H	2.17	0.53
26:S:409:LEU:HA	26:S:412:ASN:CB	2.38	0.53
27:T:27:LEU:HD13	27:T:81:TYR:OH	2.09	0.53
28:U:176:ARG:NH1	28:U:176:ARG:HB2	2.24	0.53
29:V:31:SER:HB2	29:V:205:LYS:CE	2.39	0.53
29:V:289:GLU:C	29:V:291:ASN:N	2.66	0.53
31:X:30:GLN:H	31:X:56:PRO:HA	1.72	0.53
33:Z:443:ASP:OD1	33:Z:447:VAL:HG21	2.09	0.53
33:Z:847:ILE:HG12	33:Z:850:LEU:HD12	1.91	0.53
8:a:230:LYS:HE2	8:a:231:ASP:OD1	2.08	0.53
9:b:26:THR:O	9:b:30:GLN:HG2	2.09	0.53
9:b:118:MET:O	9:b:122:THR:N	2.36	0.53
10:c:58:GLU:OE2	10:c:60:ASP:HB2	2.09	0.53
10:c:122:TYR:CD2	10:c:130:PRO:HA	2.44	0.53
11:d:68:ASP:OD2	11:d:70:HIS:CE1	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:182:GLU:O	12:e:186:GLU:N	2.23	0.53
13:f:94:TYR:HA	13:f:97:LEU:HD12	1.91	0.53
13:f:157:TYR:CZ	14:g:60:VAL:HG13	2.43	0.53
14:g:35:THR:HG21	14:g:66:LYS:NZ	2.24	0.53
14:g:170:GLN:NE2	14:g:173:LYS:NZ	2.57	0.53
3:h:25:VAL:HG13	3:h:143:TYR:HB3	1.91	0.53
4:i:87:LEU:O	4:i:90:SER:HB3	2.09	0.53
6:k:96:ARG:NH2	7:l:163:TYR:O	2.41	0.53
2:2:37:PRO:HD3	2:2:144:TRP:CE2	2.44	0.53
2:2:93:MET:HA	2:2:96:ILE:HD12	1.89	0.53
4:4:235:PRO:HG2	4:4:238:THR:OG1	2.09	0.53
5:5:100:PHE:C	5:5:102:PRO:HD3	2.34	0.53
5:5:189:ILE:N	5:5:196:VAL:O	2.29	0.53
6:6:137:GLY:HA2	6:6:140:THR:OG1	2.08	0.53
7:7:92:ASP:OD2	7:7:246:SER:HA	2.08	0.53
7:7:96:THR:HG22	7:7:101:VAL:HA	1.90	0.53
7:7:272:PHE:CE2	5:j:204:GLN:HG3	2.44	0.53
1:8:119:LYS:HE3	1:8:124:TYR:N	2.24	0.53
2:9:40:THR:OG1	2:9:62:SER:O	2.14	0.53
2:9:113:LEU:HB2	2:9:118:GLU:CG	2.39	0.53
8:A:20:SER:HB3	8:A:26:TYR:CE1	2.43	0.53
8:A:77:ARG:HG3	8:A:231:ASP:O	2.08	0.53
8:A:124:LEU:HA	8:A:127:ILE:HD12	1.89	0.53
8:A:185:HIS:O	8:A:189:SER:N	2.29	0.53
9:B:26:THR:O	9:B:30:GLN:HG2	2.09	0.53
10:C:213:PHE:HB3	10:C:235:ILE:HG12	1.91	0.53
11:D:56:ASP:CG	11:D:58:ARG:HE	2.17	0.53
11:D:56:ASP:CG	11:D:58:ARG:HH21	2.14	0.53
11:D:193:LYS:HZ1	11:D:235:GLN:CG	2.10	0.53
12:E:219:LEU:HB2	12:E:231:TYR:HB2	1.90	0.53
14:G:78:TYR:HB3	14:G:136:THR:HG23	1.90	0.53
14:G:99:PHE:CE1	14:G:105:THR:HG23	2.43	0.53
14:G:149:TYR:CD1	14:G:159:GLY:HA2	2.44	0.53
14:G:183:HIS:HB3	14:G:186:GLY:O	2.09	0.53
14:G:218:TRP:CZ3	14:G:220:SER:HB3	2.43	0.53
15:H:106:ILE:HD13	20:M:150:LYS:H	1.73	0.53
16:I:146:SER:HB3	16:I:162:ASP:HB3	1.90	0.53
17:J:165:GLU:OE2	17:J:202:VAL:HG22	2.09	0.53
17:J:191:PRO:HB3	17:J:257:ARG:HH21	1.74	0.53
18:K:112:SER:HB3	18:K:116:MET:H	1.73	0.53
19:L:201:LEU:HD21	19:L:322:LYS:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:371:THR:O	19:L:374:PHE:HB3	2.09	0.53
20:M:36:LEU:HA	20:M:70:LYS:HD2	1.91	0.53
20:M:193:LEU:HB3	20:M:235:CYS:SG	2.49	0.53
21:N:203:ARG:O	21:N:206:ILE:HB	2.09	0.53
21:N:226:ASN:O	21:N:230:VAL:N	2.26	0.53
22:O:132:GLU:HA	22:O:135:ARG:HH21	1.74	0.53
22:O:238:ILE:O	22:O:241:THR:HB	2.09	0.53
23:P:204:LEU:HD11	23:P:217:LYS:CD	2.39	0.53
24:Q:281:ILE:HG23	24:Q:287:THR:HB	1.91	0.53
25:R:78:ASP:OD1	25:R:94:PHE:N	2.42	0.53
25:R:99:TYR:HA	25:R:102:LEU:HB3	1.90	0.53
25:R:286:LEU:O	25:R:288:SER:N	2.41	0.53
25:R:335:ARG:HH22	25:R:374:ASN:HB2	1.74	0.53
26:S:210:LEU:HD12	26:S:214:MET:HE3	1.90	0.53
27:T:109:TYR:HA	27:T:112:ASN:HB3	1.91	0.53
27:T:226:TRP:CE2	27:T:235:PHE:CE2	2.97	0.53
28:U:7:LYS:HB3	28:U:157:LEU:HB3	1.91	0.53
28:U:16:LEU:HA	29:V:209:GLU:CD	2.33	0.53
29:V:88:GLN:HG3	29:V:89:ALA:N	2.24	0.53
30:W:113:PHE:CE1	30:W:181:LEU:HD21	2.43	0.53
31:X:30:GLN:HB3	31:X:102:GLN:NE2	2.24	0.53
33:Z:230:ILE:HG13	33:Z:267:THR:HG21	1.91	0.53
33:Z:360:SER:O	33:Z:364:ASN:N	2.41	0.53
33:Z:917:ASN:CG	33:Z:918:ASP:H	2.17	0.53
8:a:43:LEU:HD11	8:a:54:ILE:HG12	1.91	0.53
10:c:39:MET:HB2	10:c:148:LEU:HB2	1.91	0.53
10:c:119:LYS:HD3	10:c:152:ASN:O	2.09	0.53
11:d:56:ASP:CG	11:d:58:ARG:HE	2.17	0.53
13:f:105:VAL:HG12	13:f:145:LEU:HD13	1.91	0.53
13:f:121:GLN:HA	14:g:130:ARG:HE	1.74	0.53
14:g:150:MET:H	14:g:160:TYR:HE2	1.55	0.53
3:h:157:CYS:O	3:h:161:PHE:N	2.40	0.53
4:i:50:THR:HG22	4:i:55:VAL:HA	1.90	0.53
4:i:129:VAL:O	4:i:140:PHE:N	2.40	0.53
4:i:132:VAL:HB	4:i:209:ILE:HA	1.92	0.53
5:j:98:ARG:HD2	5:j:101:GLY:O	2.09	0.53
7:l:114:PRO:HA	7:l:260:TRP:NE1	2.23	0.53
1:1:48:ASN:CG	1:1:55:ASN:HB2	2.33	0.52
1:1:119:LYS:HE3	1:1:124:TYR:N	2.24	0.52
2:2:110:ASP:HB3	13:f:110:HIS:NE2	2.24	0.52
5:5:11:ILE:H	5:5:26:ASP:CG	2.16	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:40:PHE:HE2	5:5:42:LYS:HG2	1.74	0.52
5:5:98:ARG:HD2	5:5:101:GLY:O	2.09	0.52
6:6:52:ASP:OD1	7:7:163:TYR:OH	2.24	0.52
6:6:70:ARG:HG2	6:6:71:GLU:OE2	2.07	0.52
7:7:182:LYS:HD2	11:D:141:ARG:NE	2.21	0.52
1:8:47:ARG:HG3	1:8:219:ASP:OD2	2.09	0.52
1:8:107:SER:OG	12:E:103:TYR:O	2.26	0.52
1:8:213:ARG:NE	5:j:151:GLU:OE1	2.41	0.52
9:B:14:PRO:HA	10:C:24:TYR:CD1	2.43	0.52
9:B:205:ASN:O	9:B:209:ILE:HG12	2.09	0.52
10:C:201:THR:HG22	10:C:203:SER:H	1.73	0.52
11:D:189:GLU:HG3	11:D:232:TYR:CE1	2.44	0.52
13:F:2:PHE:O	13:F:5:ASN:HB2	2.08	0.52
13:F:40:SER:HB3	13:F:189:LEU:HD21	1.92	0.52
13:F:50:LYS:HG3	13:F:212:SER:HB2	1.91	0.52
13:F:90:GLN:HB2	13:F:91:GLN:NE2	2.24	0.52
14:G:59:LEU:O	14:G:61:PRO:HD3	2.09	0.52
14:G:91:ARG:NH1	14:G:94:GLU:OE1	2.42	0.52
15:H:57:LYS:NZ	16:I:135:PHE:CD1	2.76	0.52
15:H:233:GLU:O	15:H:237:THR:N	2.37	0.52
15:H:388:ILE:HG21	15:H:419:LEU:HD12	1.91	0.52
15:H:389:PHE:CZ	15:H:422:VAL:HG21	2.44	0.52
17:J:96:VAL:HB	17:J:120:TYR:O	2.09	0.52
17:J:188:TYR:O	17:J:316:PHE:N	2.42	0.52
18:K:236:ARG:HG3	18:K:270:PHE:HD2	1.74	0.52
18:K:357:ALA:HA	18:K:360:MET:HB3	1.91	0.52
19:L:105:ILE:O	19:L:122:SER:OG	2.21	0.52
19:L:109:MET:HB2	19:L:120:LYS:H	1.73	0.52
19:L:172:SER:HA	19:L:244:ILE:HA	1.91	0.52
20:M:170:MET:HA	20:M:246:LEU:HD13	1.90	0.52
20:M:174:GLU:OE2	20:M:175:LYS:HG3	2.09	0.52
21:N:33:ASP:O	21:N:36:TRP:HD1	1.92	0.52
21:N:244:LYS:HA	21:N:247:GLU:OE1	2.09	0.52
21:N:404:SER:O	21:N:408:LEU:N	2.39	0.52
21:N:739:PHE:O	21:N:742:TRP:C	2.52	0.52
21:N:746:ALA:HB1	21:N:749:LEU:HD12	1.90	0.52
21:N:768:ILE:HB	21:N:917:ILE:HB	1.89	0.52
22:O:49:PHE:HD2	22:O:50:ASP:OD1	1.92	0.52
22:O:86:LEU:O	22:O:89:SER:OG	2.26	0.52
22:O:190:TYR:HA	22:O:193:LEU:HD23	1.91	0.52
23:P:71:LYS:HB2	23:P:74:ASP:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:103:TYR:HD1	23:P:106:SER:OG	1.92	0.52
24:Q:79:PRO:HG3	24:Q:120:LYS:HD3	1.91	0.52
24:Q:117:VAL:O	24:Q:120:LYS:HB2	2.08	0.52
25:R:213:TYR:O	25:R:217:HIS:N	2.33	0.52
25:R:367:ASP:HA	25:R:370:LYS:HD2	1.91	0.52
26:S:248:ASP:OD1	26:S:283:GLN:NE2	2.42	0.52
26:S:385:SER:HA	26:S:388:ILE:HB	1.90	0.52
26:S:437:ASN:HB2	26:S:440:ASP:CG	2.33	0.52
27:T:101:LYS:O	27:T:105:LEU:HG	2.09	0.52
27:T:106:ILE:HG13	27:T:110:LEU:HG	1.91	0.52
29:V:162:GLY:H	29:V:165:ILE:HD12	1.74	0.52
30:W:33:VAL:HA	30:W:36:ILE:HD12	1.90	0.52
30:W:91:LEU:HD23	30:W:128:LEU:HD13	1.91	0.52
33:Z:112:LYS:HD2	33:Z:140:LEU:HB3	1.90	0.52
33:Z:138:ARG:NH1	33:Z:144:SER:CB	2.72	0.52
33:Z:303:ASP:OD2	33:Z:305:VAL:HB	2.09	0.52
9:b:106:PRO:HB2	9:b:108:LYS:HG2	1.91	0.52
10:c:119:LYS:NZ	10:c:151:SER:OG	2.36	0.52
12:e:69:GLU:OE2	12:e:71:ASP:C	2.52	0.52
13:f:12:THR:HA	14:g:23:GLN:HE22	1.73	0.52
3:3:185:ASP:OD2	3:3:188:SER:N	2.43	0.52
5:5:28:ARG:NH2	5:5:30:GLY:HA3	2.24	0.52
7:7:79:LEU:HA	7:7:175:MET:HE1	1.92	0.52
7:7:279:GLU:OE2	6:k:146:HIS:ND1	2.41	0.52
1:8:67:ASP:CG	1:8:102:LYS:HG3	2.34	0.52
9:B:186:GLU:OE1	9:B:246:ARG:NE	2.35	0.52
12:E:22:PHE:HB3	12:E:26:TYR:CE2	2.44	0.52
13:F:195:GLU:O	13:F:199:GLN:HG2	2.09	0.52
14:G:21:ASN:O	14:G:25:GLU:HG3	2.09	0.52
15:H:201:GLU:N	15:H:271:PHE:O	2.38	0.52
16:I:254:GLN:HG2	16:I:259:ASP:HB2	1.91	0.52
17:J:208:CYS:SG	17:J:242:PRO:HB2	2.50	0.52
18:K:167:PRO:HD2	18:K:228:ASN:HA	1.89	0.52
18:K:219:LYS:HZ3	18:K:318:THR:C	2.16	0.52
18:K:273:GLU:HB2	19:L:306:MET:HE1	1.91	0.52
19:L:72:ASP:N	19:L:75:LYS:NZ	2.56	0.52
19:L:111:GLU:HG3	19:L:117:TYR:CE1	2.45	0.52
20:M:70:LYS:HD3	29:V:73:GLN:O	2.09	0.52
20:M:117:ALA:HB2	20:M:131:MET:HG2	1.91	0.52
20:M:234:ALA:O	20:M:238:GLN:N	2.32	0.52
20:M:379:LEU:HG	20:M:412:HIS:CE1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:25:LEU:HB3	21:N:60:MET:CG	2.28	0.52
21:N:150:LEU:HD13	21:N:169:ALA:HB1	1.91	0.52
21:N:176:GLN:CD	21:N:218:PRO:HD2	2.34	0.52
21:N:242:PHE:HE2	21:N:273:LEU:HD22	1.72	0.52
21:N:443:LEU:HD21	21:N:469:VAL:HG13	1.90	0.52
21:N:444:HIS:CE1	21:N:480:ALA:HB2	2.44	0.52
21:N:528:ARG:HB3	21:N:531:LEU:HD12	1.92	0.52
21:N:733:LEU:O	21:N:737:SER:N	2.42	0.52
22:O:56:PRO:HB2	22:O:86:LEU:HD11	1.90	0.52
22:O:175:ASN:O	22:O:178:TYR:HB3	2.08	0.52
22:O:215:TYR:O	22:O:219:ILE:HG12	2.09	0.52
22:O:242:ILE:HG13	22:O:243:VAL:N	2.24	0.52
22:O:330:ARG:HG3	22:O:334:LEU:CG	2.39	0.52
22:O:363:ILE:O	28:U:204:LEU:HD13	2.08	0.52
24:Q:288:LYS:O	24:Q:291:TYR:N	2.32	0.52
24:Q:346:ASN:O	24:Q:350:ILE:N	2.37	0.52
24:Q:350:ILE:HG21	24:Q:362:ILE:HG23	1.90	0.52
25:R:32:LEU:HB2	25:R:46:ALA:HB2	1.91	0.52
25:R:127:GLU:OE1	25:R:162:ILE:HD13	2.10	0.52
25:R:304:TYR:CD1	25:R:307:TYR:HB2	2.44	0.52
26:S:215:MET:O	26:S:218:LEU:N	2.41	0.52
26:S:264:VAL:HB	26:S:269:GLU:OE2	2.09	0.52
26:S:343:LEU:HD12	26:S:346:TYR:HB3	1.90	0.52
28:U:164:GLU:CA	29:V:42:ARG:HH12	2.22	0.52
29:V:254:ARG:HG2	29:V:287:THR:CB	2.39	0.52
30:W:12:ASN:ND2	30:W:81:ILE:HA	2.23	0.52
33:Z:145:ASP:H	33:Z:154:ILE:HD11	1.73	0.52
33:Z:207:ILE:HA	33:Z:210:TYR:HB3	1.91	0.52
33:Z:212:LEU:HD22	33:Z:235:GLN:HE21	1.75	0.52
33:Z:387:ASN:O	33:Z:391:ASN:HB2	2.09	0.52
33:Z:518:LEU:O	33:Z:522:THR:HA	2.10	0.52
8:a:144:VAL:HG12	8:a:154:ILE:HA	1.90	0.52
8:a:220:LYS:HD3	8:a:242:GLU:HB2	1.91	0.52
10:c:115:LEU:HD23	10:c:118:ILE:HD12	1.90	0.52
10:c:213:PHE:HB3	10:c:235:ILE:HG12	1.91	0.52
12:e:33:LEU:O	12:e:53:ARG:NH1	2.35	0.52
13:f:40:SER:HB3	13:f:189:LEU:HD21	1.92	0.52
13:f:195:GLU:O	13:f:199:GLN:HG2	2.09	0.52
14:g:141:VAL:HG21	14:g:221:LEU:N	2.24	0.52
3:h:36:ASP:OD2	3:h:188:SER:HA	2.09	0.52
3:h:38:ARG:C	3:h:52:LYS:HZ3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:171:VAL:HG13	3:h:194:MET:SD	2.49	0.52
4:i:65:ARG:HG3	4:i:67:SER:O	2.08	0.52
5:j:28:ARG:NH2	5:j:30:GLY:HA3	2.24	0.52
7:l:96:THR:HG22	7:l:101:VAL:HA	1.91	0.52
2:2:56:ALA:HA	2:2:75:LEU:HD11	1.90	0.52
4:4:32:ILE:HG13	4:4:128:ILE:HD12	1.92	0.52
4:4:132:VAL:HA	4:4:137:SER:HA	1.92	0.52
5:5:183:TRP:CH2	7:l:242:ARG:NH1	2.77	0.52
6:6:5:LEU:O	6:6:16:ALA:N	2.38	0.52
6:6:21:VAL:HB	6:6:29:LYS:HB3	1.91	0.52
1:8:132:GLY:O	1:8:140:ALA:N	2.35	0.52
8:A:14:ARG:HA	8:A:26:TYR:HB2	1.90	0.52
9:B:200:VAL:HG21	9:B:204:PHE:HD1	1.75	0.52
10:C:39:MET:HB2	10:C:148:LEU:HB2	1.91	0.52
11:D:192:VAL:O	11:D:195:THR:HB	2.10	0.52
11:D:203:VAL:HG21	11:D:210:ILE:HG12	1.91	0.52
11:D:227:GLU:O	11:D:231:GLN:HG3	2.09	0.52
13:F:65:LYS:NZ	13:F:68:GLU:OE2	2.43	0.52
15:H:274:VAL:O	15:H:309:ASP:N	2.41	0.52
15:H:288:ALA:O	15:H:292:ARG:N	2.34	0.52
17:J:42:ARG:NH2	26:S:487:THR:OG1	2.43	0.52
17:J:54:LYS:HB3	17:J:58:ILE:CD1	2.39	0.52
17:J:193:THR:HA	17:J:355:GLY:H	1.74	0.52
17:J:351:ASN:HB3	17:J:390:MET:HE3	1.91	0.52
17:J:354:SER:H	17:J:357:ASP:HB2	1.75	0.52
18:K:318:THR:HG21	18:K:321:ALA:HB2	1.91	0.52
19:L:77:ARG:HD3	20:M:15:ASP:O	2.09	0.52
19:L:252:VAL:HG21	19:L:301:ILE:HD13	1.91	0.52
19:L:364:HIS:HB3	19:L:392:ARG:HG3	1.92	0.52
21:N:141:ILE:O	21:N:145:LEU:HG	2.09	0.52
21:N:360:GLN:O	21:N:363:ALA:N	2.41	0.52
21:N:444:HIS:ND1	21:N:476:THR:O	2.42	0.52
21:N:679:ASN:O	21:N:682:PHE:HB2	2.08	0.52
22:O:44:SER:HA	22:O:48:PHE:CZ	2.44	0.52
23:P:43:GLU:HA	23:P:85:LYS:NZ	2.24	0.52
23:P:344:ARG:O	23:P:347:GLU:HB3	2.09	0.52
24:Q:65:TYR:CE2	24:Q:74:LEU:HD13	2.44	0.52
24:Q:306:TYR:HA	24:Q:314:PHE:CZ	2.44	0.52
24:Q:314:PHE:CD1	24:Q:335:PHE:HZ	2.27	0.52
25:R:222:ARG:CZ	32:Y:61:GLU:HA	2.39	0.52
25:R:266:LEU:HB3	25:R:270:VAL:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:160:ARG:O	26:S:164:ILE:N	2.31	0.52
26:S:461:PHE:C	26:S:465:ILE:HG13	2.33	0.52
26:S:465:ILE:HD13	27:T:260:ILE:HG21	1.91	0.52
27:T:52:LEU:HA	27:T:56:MET:CG	2.39	0.52
27:T:125:GLU:O	27:T:129:LEU:N	2.39	0.52
29:V:186:GLN:HB3	29:V:190:HIS:HD2	1.73	0.52
31:X:40:GLU:HB2	31:X:42:GLU:HG2	1.91	0.52
33:Z:478:VAL:HG23	33:Z:489:ALA:HB1	1.91	0.52
33:Z:491:LEU:HD11	33:Z:899:GLN:HG3	1.90	0.52
33:Z:510:LEU:HD13	33:Z:545:SER:HB3	1.91	0.52
33:Z:957:LEU:HD11	33:Z:963:ALA:HB3	1.91	0.52
8:a:100:GLU:HG3	8:a:120:ARG:HG2	1.90	0.52
8:a:107:LYS:HE2	8:a:108:TYR:CZ	2.45	0.52
8:a:181:ASN:CB	8:a:213:ALA:HB2	2.40	0.52
8:a:196:GLU:CD	8:a:201:LYS:HB3	2.35	0.52
9:b:32:VAL:HG11	9:b:63:LYS:HZ2	1.74	0.52
10:c:14:SER:HB2	10:c:16:GLU:OE1	2.09	0.52
11:d:7:ALA:N	12:e:125:GLU:OE2	2.26	0.52
11:d:184:PRO:O	11:d:186:ALA:N	2.43	0.52
11:d:227:GLU:H	11:d:227:GLU:CD	2.16	0.52
13:f:112:LEU:HA	13:f:115:LYS:HB3	1.90	0.52
13:f:117:GLN:HE22	14:g:130:ARG:HH21	1.57	0.52
14:g:48:PHE:N	14:g:217:SER:O	2.35	0.52
3:h:66:GLY:CA	3:h:113:THR:HG22	2.40	0.52
4:i:65:ARG:HB2	4:i:71:TRP:CH2	2.43	0.52
4:i:235:PRO:HG2	4:i:238:THR:OG1	2.09	0.52
5:j:84:PRO:HA	5:j:87:PHE:HB3	1.90	0.52
2:2:52:GLY:N	2:2:158:GLN:HE21	2.06	0.52
2:2:94:GLN:HB3	3:h:102:LYS:HZ2	1.72	0.52
2:2:183:MET:HG2	4:4:161:LEU:HB3	1.91	0.52
5:5:161:GLU:CA	5:5:164:PHE:HB3	2.32	0.52
6:6:67:TYR:O	6:6:70:ARG:HB3	2.10	0.52
1:8:130:ILE:CG1	1:8:142:TYR:HB2	2.39	0.52
1:8:240:ARG:HD2	2:9:194:ARG:NH2	2.24	0.52
2:9:81:ASN:O	2:9:151:GLY:HA2	2.09	0.52
2:9:179:PHE:CE1	3:h:44:TYR:HA	2.44	0.52
8:A:96:ARG:HB2	8:A:121:MET:HE1	1.91	0.52
8:A:196:GLU:CD	8:A:201:LYS:HB3	2.35	0.52
10:C:32:ALA:HB3	10:C:166:GLY:HA2	1.91	0.52
11:D:6:ARG:HA	12:E:125:GLU:CD	2.34	0.52
15:H:204:PRO:HD2	15:H:265:ASN:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:103:PRO:HD3	17:J:121:MET:HE2	1.91	0.52
17:J:26:LYS:HE3	21:N:103:SER:HB3	1.91	0.52
17:J:234:PHE:CZ	17:J:283:GLU:OE2	2.63	0.52
17:J:238:ARG:CZ	17:J:283:GLU:HG3	2.40	0.52
17:J:319:PRO:HB2	17:J:323:ALA:HB3	1.90	0.52
18:K:239:GLY:O	18:K:277:ILE:HG23	2.10	0.52
18:K:363:ALA:H	18:K:402:ILE:C	2.17	0.52
19:L:99:GLN:HA	29:V:73:GLN:NE2	2.25	0.52
19:L:193:LEU:HB3	19:L:197:ILE:HD12	1.91	0.52
20:M:308:LEU:HD21	20:M:323:VAL:HG11	1.91	0.52
21:N:117:TYR:OH	21:N:199:ASN:ND2	2.42	0.52
21:N:455:MET:C	21:N:457:SER:H	2.17	0.52
21:N:629:CYS:C	21:N:663:ILE:HG12	2.34	0.52
22:O:1:MET:H1	22:O:37:LEU:HD12	1.75	0.52
22:O:20:PRO:HD2	22:O:72:LYS:HZ2	1.74	0.52
22:O:94:GLU:HG3	22:O:95:SER:N	2.25	0.52
22:O:245:ASP:HA	22:O:249:ASP:CG	2.35	0.52
22:O:331:ALA:HA	22:O:337:LEU:HB2	1.92	0.52
24:Q:11:ALA:HB1	24:Q:27:TYR:CD2	2.45	0.52
24:Q:120:LYS:O	24:Q:124:PHE:N	2.31	0.52
24:Q:126:LYS:CE	24:Q:134:LYS:HZ2	2.19	0.52
24:Q:368:LEU:HD21	24:Q:372:GLN:HG3	1.91	0.52
24:Q:369:ASP:O	24:Q:373:VAL:N	2.28	0.52
24:Q:391:ASP:OD1	24:Q:398:TYR:HB2	2.09	0.52
26:S:338:MET:HE2	26:S:344:PRO:HD3	1.92	0.52
27:T:89:TYR:CD1	27:T:102:LYS:HB3	2.43	0.52
28:U:127:GLN:CD	29:V:212:MET:HB2	2.34	0.52
33:Z:442:VAL:HB	33:Z:447:VAL:HG11	1.92	0.52
33:Z:863:THR:N	33:Z:909:ARG:O	2.33	0.52
8:a:77:ARG:HG3	8:a:231:ASP:O	2.08	0.52
10:c:156:ASN:OD1	10:c:157:TYR:N	2.43	0.52
12:e:202:LYS:HB2	12:e:243:LEU:HD22	1.91	0.52
13:f:65:LYS:NZ	13:f:68:GLU:OE2	2.43	0.52
14:g:198:LYS:HZ1	14:g:199:ILE:HG12	1.72	0.52
4:i:207:MET:HG2	4:i:213:ALA:HB2	1.91	0.52
1:1:130:ILE:CG1	1:1:142:TYR:HB2	2.39	0.52
3:3:36:ASP:OD2	3:3:189:GLY:N	2.36	0.52
5:5:197:LYS:HE2	5:5:199:TYR:CE1	2.44	0.52
6:6:38:LEU:N	6:6:42:THR:O	2.43	0.52
1:8:27:ASN:OD1	1:8:77:ALA:HB2	2.09	0.52
2:9:206:ALA:O	2:9:210:ILE:HG12	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:231:ALA:HB2	2:9:241:PHE:HD1	1.73	0.52
8:A:41:ASN:N	8:A:56:GLN:OE1	2.29	0.52
8:A:223:LEU:HB3	8:A:225:VAL:HG23	1.91	0.52
8:A:230:LYS:HE2	8:A:231:ASP:OD1	2.08	0.52
10:C:91:ALA:HB1	10:C:111:LEU:HD11	1.90	0.52
11:D:24:LEU:O	11:D:28:LYS:HG3	2.08	0.52
11:D:88:LYS:O	11:D:92:GLU:N	2.31	0.52
11:D:159:TRP:CE3	12:E:58:LEU:HB2	2.43	0.52
13:F:26:LEU:HA	13:F:29:ILE:HD12	1.91	0.52
13:F:55:GLU:CD	13:F:55:GLU:H	2.16	0.52
13:F:90:GLN:O	13:F:93:ASN:HB3	2.09	0.52
13:F:211:LEU:HD21	13:F:213:ILE:HD11	1.92	0.52
14:G:237:GLN:HA	14:G:240:ILE:HD12	1.92	0.52
15:H:301:LYS:O	15:H:304:CYS:HB3	2.09	0.52
17:J:33:LYS:O	17:J:37:LYS:HG3	2.08	0.52
17:J:304:LEU:HD12	17:J:309:ARG:HB3	1.91	0.52
18:K:266:PRO:CA	18:K:311:ASN:HB3	2.36	0.52
19:L:193:LEU:O	19:L:197:ILE:N	2.43	0.52
19:L:407:ARG:HB3	19:L:409:HIS:O	2.10	0.52
19:L:416:MET:HB3	19:L:420:ARG:NH1	2.24	0.52
21:N:525:ASN:HA	21:N:528:ARG:CD	2.35	0.52
21:N:750:SER:HA	21:N:753:PHE:CE2	2.45	0.52
22:O:75:GLN:HB2	30:W:82:GLU:OE2	2.09	0.52
23:P:255:ALA:O	23:P:258:LYS:HE2	2.10	0.52
23:P:408:SER:H	23:P:410:GLN:HE22	1.58	0.52
24:Q:117:VAL:HG13	24:Q:120:LYS:HD2	1.90	0.52
24:Q:349:LYS:HA	24:Q:352:GLU:CD	2.34	0.52
24:Q:358:GLU:CD	24:Q:360:SER:HB2	2.35	0.52
25:R:29:LYS:HD3	25:R:49:PHE:HB2	1.91	0.52
25:R:209:ARG:HG2	25:R:238:PHE:CD2	2.44	0.52
26:S:20:HIS:HE1	26:S:131:THR:HB	1.74	0.52
26:S:280:ASN:HB3	26:S:285:ASP:O	2.09	0.52
26:S:413:LEU:HG	26:S:414:ASP:OD1	2.09	0.52
26:S:438:HIS:HE2	27:T:197:TYR:HH	1.52	0.52
27:T:30:ILE:O	27:T:33:GLU:HB2	2.10	0.52
32:Y:82:ASP:O	32:Y:86:ARG:N	2.36	0.52
33:Z:347:ASN:HA	33:Z:352:LYS:HB2	1.90	0.52
33:Z:927:VAL:HG22	33:Z:957:LEU:HB2	1.90	0.52
8:a:147:ASP:CG	8:a:150:LEU:H	2.10	0.52
9:b:184:GLU:O	9:b:187:ASP:HB2	2.09	0.52
9:b:186:GLU:OE1	9:b:246:ARG:NE	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:71:ASP:HA	7:l:139:ARG:HH21	1.73	0.52
14:g:237:GLN:HA	14:g:240:ILE:HD12	1.92	0.52
3:h:72:GLN:CB	4:i:113:LYS:HZ1	2.23	0.52
6:k:184:VAL:HA	6:k:188:GLY:O	2.09	0.52
7:l:158:LEU:HD12	7:l:161:LEU:HD23	1.91	0.52
7:l:162:VAL:HG11	7:l:192:SER:HA	1.91	0.52
3:3:215:LEU:OXT	3:h:159:LYS:NZ	2.43	0.52
5:5:51:LEU:HD12	5:5:108:VAL:O	2.10	0.52
6:6:79:ALA:HB2	10:C:104:GLU:OE1	2.09	0.52
7:7:94:ARG:NH2	7:7:247:GLY:HA3	2.25	0.52
1:8:30:THR:HG22	1:8:31:ILE:N	2.24	0.52
1:8:78:ALA:HB2	2:9:168:VAL:HA	1.90	0.52
1:8:116:LEU:HD12	1:8:148:GLY:HA2	1.91	0.52
8:A:20:SER:O	8:A:23:GLY:N	2.32	0.52
8:A:107:LYS:HE2	8:A:108:TYR:CZ	2.45	0.52
8:A:181:ASN:CB	8:A:213:ALA:HB2	2.40	0.52
9:B:106:PRO:HB2	9:B:108:LYS:HG2	1.91	0.52
9:B:108:LYS:HG3	9:B:109:LEU:H	1.75	0.52
9:B:111:VAL:HG21	9:B:148:TYR:HD2	1.75	0.52
13:F:14:SER:N	13:F:18:ARG:H	2.07	0.52
13:F:112:LEU:O	13:F:116:ALA:N	2.23	0.52
14:G:13:SER:H	14:G:127:ASN:HA	1.75	0.52
14:G:45:GLY:CA	14:G:146:ALA:HB2	2.36	0.52
15:H:318:ARG:O	20:M:249:PRO:HB3	2.09	0.52
16:I:185:GLY:HA3	16:I:361:ILE:CG1	2.40	0.52
16:I:395:MET:HB2	16:I:420:LYS:HB2	1.92	0.52
17:J:76:ILE:HB	17:J:85:LEU:HD23	1.92	0.52
17:J:182:PRO:HB2	17:J:289:LYS:NZ	2.24	0.52
17:J:273:LEU:HD22	17:J:309:ARG:NH1	2.25	0.52
17:J:337:LEU:HA	17:J:377:VAL:N	2.23	0.52
18:K:151:PRO:HG2	19:L:112:LEU:HD11	1.90	0.52
18:K:213:GLY:N	18:K:219:LYS:HZ2	2.08	0.52
19:L:74:LEU:HD13	20:M:15:ASP:CG	2.35	0.52
19:L:167:VAL:HA	19:L:171:THR:HA	1.91	0.52
20:M:162:GLU:CD	20:M:163:PHE:H	2.17	0.52
21:N:50:TYR:CE1	21:N:84:ALA:HB1	2.44	0.52
21:N:124:TYR:O	21:N:162:ARG:NH1	2.41	0.52
21:N:300:ASN:ND2	21:N:378:ASN:OD1	2.42	0.52
21:N:444:HIS:HB2	21:N:476:THR:HG22	1.92	0.52
21:N:698:GLY:O	21:N:702:ALA:N	2.22	0.52
22:O:39:PHE:HB3	22:O:40:GLN:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:289:GLN:HE22	22:O:334:LEU:HD11	1.74	0.52
22:O:352:TRP:CD2	22:O:353:VAL:N	2.69	0.52
23:P:223:LEU:HA	23:P:226:LYS:HE2	1.91	0.52
23:P:263:HIS:ND1	23:P:328:ALA:HB3	2.24	0.52
23:P:305:THR:C	23:P:310:ARG:HH22	2.17	0.52
23:P:395:ARG:C	23:P:398:LYS:H	2.17	0.52
23:P:422:LEU:CB	23:P:426:ILE:CG1	2.83	0.52
24:Q:109:ASP:CG	24:Q:113:ASP:HB2	2.35	0.52
24:Q:162:LEU:C	24:Q:166:LYS:HG3	2.35	0.52
24:Q:223:GLY:HA3	24:Q:239:PHE:CE1	2.45	0.52
25:R:71:LEU:HD12	25:R:76:GLN:HA	1.92	0.52
25:R:232:VAL:CA	25:R:253:ALA:HB1	2.39	0.52
26:S:159:ASN:HD21	26:S:187:ILE:HG21	1.75	0.52
28:U:122:ILE:HB	28:U:135:ASP:HB2	1.91	0.52
28:U:191:THR:C	29:V:232:GLU:OE2	2.52	0.52
29:V:49:VAL:O	29:V:109:HIS:HA	2.09	0.52
30:W:143:ASN:HD21	30:W:149:GLN:H	1.56	0.52
31:X:14:VAL:HB	31:X:60:GLU:O	2.10	0.52
33:Z:406:TRP:O	33:Z:410:THR:HG23	2.09	0.52
9:b:111:VAL:HG21	9:b:148:TYR:HD2	1.75	0.52
10:c:116:SER:HB3	10:c:155:GLY:O	2.10	0.52
11:d:74:SER:O	11:d:134:LEU:N	2.30	0.52
12:e:178:GLY:O	12:e:182:GLU:HG2	2.09	0.52
13:f:69:HIS:HE1	13:f:70:MET:HE3	1.73	0.52
14:g:21:ASN:O	14:g:25:GLU:HG3	2.09	0.52
14:g:221:LEU:O	14:g:225:ASN:HA	2.10	0.52
3:h:36:ASP:OD2	3:h:189:GLY:N	2.36	0.52
3:h:192:ILE:HB	3:h:207:PHE:HB2	1.92	0.52
4:i:131:GLY:HA2	4:i:207:MET:SD	2.50	0.52
5:j:94:SER:O	5:j:97:GLU:HB3	2.10	0.52
1:1:165:ILE:HG12	1:1:206:SER:HB3	1.92	0.52
3:3:25:VAL:HG13	3:3:143:TYR:HB3	1.91	0.52
3:3:192:ILE:HB	3:3:207:PHE:HB2	1.92	0.52
4:4:132:VAL:HB	4:4:209:ILE:HA	1.92	0.52
6:6:167:GLU:OE2	7:l:216:ASP:OD2	2.27	0.52
7:7:162:VAL:HG11	7:7:192:SER:HA	1.91	0.52
7:7:268:VAL:O	7:7:272:PHE:N	2.26	0.52
8:A:42:SER:HA	8:A:55:SER:HA	1.91	0.52
8:A:163:TYR:HE1	9:B:83:ARG:HH11	1.55	0.52
9:B:224:TYR:CE1	9:B:227:ILE:HD12	2.45	0.52
10:C:14:SER:HB2	10:C:16:GLU:OE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:30:GLY:O	11:D:166:ARG:N	2.40	0.52
11:D:117:GLN:NE2	11:D:131:VAL:O	2.42	0.52
11:D:143:ASP:HA	11:D:217:PRO:HB3	1.91	0.52
11:D:169:LYS:HZ2	11:D:172:ARG:HH11	1.58	0.52
13:F:64:ILE:HB	13:F:72:LEU:HG	1.92	0.52
13:F:206:LEU:HB2	13:F:211:LEU:HB2	1.92	0.52
14:G:71:ASP:CG	14:G:72:ARG:H	2.18	0.52
15:H:54:ASN:HB3	16:I:96:LEU:HD13	1.92	0.52
15:H:221:LEU:O	15:H:225:VAL:N	2.41	0.52
16:I:196:GLU:O	16:I:201:PRO:HD3	2.10	0.52
16:I:401:LEU:HD23	16:I:404:LEU:HD12	1.91	0.52
17:J:43:ARG:O	17:J:47:GLN:N	2.39	0.52
17:J:361:VAL:HG13	17:J:385:ALA:HB3	1.91	0.52
18:K:243:VAL:HG11	19:L:300:GLU:N	2.25	0.52
18:K:302:GLN:O	18:K:306:PHE:HD2	1.92	0.52
20:M:26:SER:O	20:M:30:LEU:HG	2.09	0.52
20:M:401:ILE:HG22	20:M:414:ASP:HA	1.92	0.52
21:N:154:LEU:HB3	21:N:189:LEU:HD22	1.92	0.52
21:N:239:LEU:HD11	21:N:276:GLU:HG3	1.91	0.52
21:N:334:VAL:HG12	21:N:338:PHE:CE1	2.43	0.52
21:N:466:LEU:HB3	21:N:481:ALA:HB1	1.92	0.52
21:N:701:VAL:O	21:N:705:ILE:N	2.31	0.52
23:P:43:GLU:O	23:P:85:LYS:NZ	2.42	0.52
23:P:59:LEU:O	23:P:63:VAL:HG23	2.10	0.52
23:P:284:ILE:HG23	23:P:285:GLN:OE1	2.10	0.52
24:Q:65:TYR:HD2	24:Q:74:LEU:HD22	1.73	0.52
24:Q:314:PHE:HD1	24:Q:335:PHE:HZ	1.58	0.52
25:R:24:TYR:CD1	25:R:244:THR:HA	2.45	0.52
25:R:36:SER:HA	25:R:42:GLN:CD	2.35	0.52
25:R:41:GLU:O	25:R:45:GLU:N	2.43	0.52
25:R:57:GLU:HB2	25:R:59:MET:HE3	1.90	0.52
25:R:67:CYS:HA	25:R:92:ILE:HG13	1.91	0.52
26:S:258:GLU:OE2	26:S:260:PRO:HB3	2.08	0.52
26:S:288:THR:HA	26:S:291:GLU:HB2	1.90	0.52
26:S:460:VAL:O	26:S:463:GLU:HB3	2.10	0.52
27:T:80:ASN:HA	27:T:83:ASN:HD22	1.75	0.52
30:W:49:VAL:HG12	30:W:50:GLY:O	2.09	0.52
30:W:51:LEU:HB3	30:W:63:SER:CB	2.34	0.52
33:Z:183:LYS:HZ3	33:Z:292:ASP:CB	2.23	0.52
33:Z:322:GLU:HG3	33:Z:323:TYR:N	2.25	0.52
8:a:14:ARG:HA	8:a:26:TYR:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:185:LYS:HG2	10:c:187:ASP:H	1.73	0.52
11:d:7:ALA:HA	11:d:124:GLY:HA2	1.91	0.52
11:d:81:ASP:OD2	11:d:130:GLY:N	2.26	0.52
12:e:35:SER:HA	12:e:53:ARG:NH2	2.25	0.52
12:e:177:GLU:H	12:e:177:GLU:CD	2.14	0.52
13:f:50:LYS:HG3	13:f:212:SER:HB2	1.91	0.52
13:f:112:LEU:O	13:f:116:ALA:N	2.23	0.52
13:f:211:LEU:HD21	13:f:213:ILE:HD11	1.92	0.52
14:g:99:PHE:CE1	14:g:105:THR:HG23	2.43	0.52
14:g:149:TYR:CD1	14:g:159:GLY:HA2	2.44	0.52
3:h:185:ASP:OD2	3:h:188:SER:N	2.43	0.52
4:i:32:ILE:HG13	4:i:128:ILE:HD12	1.92	0.52
4:i:59:ASN:HD21	4:i:218:ASN:ND2	2.08	0.52
4:i:132:VAL:HA	4:i:137:SER:HA	1.92	0.52
6:k:19:LYS:HG2	6:k:180:ILE:HG13	1.90	0.52
6:k:170:LYS:HE3	6:k:171:ARG:NE	2.25	0.52
2:2:132:VAL:O	2:2:135:GLN:HB2	2.10	0.52
4:4:202:VAL:HB	4:4:220:LEU:H	1.75	0.52
6:6:184:VAL:HA	6:6:188:GLY:O	2.09	0.52
7:7:83:PHE:CE1	7:7:88:ILE:HG12	2.45	0.52
1:8:32:LEU:HD21	1:8:34:ILE:HD11	1.91	0.52
1:8:49:ILE:HA	1:8:55:ASN:H	1.73	0.52
1:8:76:PHE:CE2	1:8:78:ALA:HB3	2.44	0.52
2:9:67:LEU:HD11	3:h:186:GLY:HA2	1.90	0.52
8:A:13:ASP:OD1	8:A:14:ARG:N	2.43	0.52
9:B:197:LYS:NZ	9:B:204:PHE:CD2	2.75	0.52
10:C:122:TYR:HE2	10:C:131:PHE:CZ	2.27	0.52
10:C:156:ASN:OD1	10:C:157:TYR:N	2.43	0.52
10:C:215:THR:N	10:C:228:LYS:O	2.31	0.52
12:E:52:LYS:HG3	12:E:215:ASN:O	2.10	0.52
12:E:155:LEU:O	12:E:166:ARG:HA	2.09	0.52
14:G:114:ASP:O	14:G:118:GLN:HG2	2.10	0.52
14:G:221:LEU:O	14:G:225:ASN:HA	2.10	0.52
15:H:276:GLY:HA3	15:H:310:GLU:O	2.10	0.52
15:H:331:ARG:HH12	15:H:335:GLU:HB2	1.74	0.52
15:H:373:ARG:HG3	15:H:375:VAL:HG23	1.91	0.52
17:J:31:GLU:N	18:K:55:GLU:OE2	2.42	0.52
17:J:99:ALA:HB3	17:J:102:ILE:HG12	1.91	0.52
17:J:188:TYR:HB3	17:J:315:GLU:HG2	1.91	0.52
17:J:188:TYR:H	17:J:316:PHE:H	1.58	0.52
17:J:262:GLY:O	17:J:266:SER:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:303:ALA:O	17:J:309:ARG:HD2	2.10	0.52
18:K:341:PRO:O	18:K:342:SER:CB	2.56	0.52
18:K:411:TYR:O	18:K:415:VAL:HG13	2.09	0.52
21:N:377:GLY:N	21:N:411:ILE:HG23	2.25	0.52
21:N:473:ASP:HB3	21:N:510:HIS:HE1	1.75	0.52
21:N:718:GLU:OE1	21:N:725:LEU:N	2.42	0.52
21:N:762:ARG:CD	21:N:767:ALA:H	2.22	0.52
22:O:164:PRO:HB3	22:O:166:ARG:HB3	1.91	0.52
22:O:212:GLN:O	22:O:215:TYR:HB3	2.09	0.52
24:Q:14:LEU:HA	24:Q:17:GLU:HB2	1.91	0.52
24:Q:155:LEU:HD11	24:Q:188:LEU:HD11	1.90	0.52
24:Q:311:LEU:HD12	24:Q:339:TYR:OH	2.10	0.52
24:Q:381:ILE:O	24:Q:384:LYS:HD2	2.10	0.52
25:R:31:PHE:HA	25:R:34:THR:OG1	2.10	0.52
25:R:62:TYR:O	25:R:65:TYR:N	2.42	0.52
25:R:148:ASP:C	25:R:152:LYS:NZ	2.68	0.52
25:R:184:GLN:HB3	25:R:185:LEU:HG	1.91	0.52
26:S:72:GLU:O	26:S:74:LEU:N	2.43	0.52
26:S:361:THR:O	26:S:365:THR:N	2.22	0.52
26:S:453:ASP:OD1	26:S:454:SER:N	2.43	0.52
26:S:479:MET:SD	28:U:291:LEU:HD11	2.38	0.52
28:U:11:ALA:HB2	28:U:48:VAL:O	2.10	0.52
28:U:24:ARG:HD3	29:V:99:GLY:C	2.35	0.52
33:Z:258:PRO:HB2	33:Z:259:PRO:HD3	1.91	0.52
33:Z:436:LEU:O	33:Z:440:LEU:N	2.39	0.52
33:Z:740:VAL:HG13	33:Z:764:LEU:HD13	1.91	0.52
33:Z:971:ILE:HG22	33:Z:972:SER:O	2.10	0.52
8:a:165:GLY:O	9:b:57:MET:N	2.28	0.52
11:d:133:THR:OG1	11:d:150:THR:OG1	2.06	0.52
11:d:192:VAL:O	11:d:195:THR:HB	2.10	0.52
12:e:110:GLU:O	12:e:114:GLN:N	2.31	0.52
13:f:168:ALA:HA	13:f:199:GLN:HB2	1.92	0.52
14:g:12:ASN:HB3	14:g:126:TYR:O	2.09	0.52
3:h:108:ASN:O	3:h:112:LEU:HG	2.10	0.52
3:h:129:VAL:HB	3:h:141:LEU:O	2.10	0.52
5:j:21:VAL:O	5:j:190:ILE:HB	2.09	0.52
5:j:100:PHE:C	5:j:102:PRO:HD3	2.34	0.52
7:l:78:THR:O	7:l:204:VAL:N	2.29	0.52
3:3:60:ILE:HG12	3:3:94:THR:OG1	2.10	0.52
3:3:108:ASN:O	3:3:112:LEU:HG	2.10	0.52
4:4:233:LYS:HB2	5:5:155:GLU:OE2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:243:LYS:H	5:5:199:TYR:HB2	1.74	0.52
5:5:21:VAL:O	5:5:190:ILE:HB	2.09	0.52
6:6:41:HIS:CG	6:6:109:LYS:HD3	2.44	0.52
7:7:209:THR:O	7:7:212:TYR:HB2	2.10	0.52
8:A:163:TYR:HE1	9:B:83:ARG:HD3	1.75	0.52
8:A:238:ALA:HA	8:A:241:ILE:HD12	1.92	0.52
12:E:35:SER:HA	12:E:53:ARG:NH2	2.25	0.52
14:G:150:MET:H	14:G:160:TYR:HE2	1.56	0.52
15:H:96:PRO:HG3	16:I:111:GLU:HG3	1.92	0.52
15:H:156:VAL:HG11	20:M:163:PHE:CD1	2.44	0.52
15:H:402:ILE:HD13	15:H:439:THR:C	2.34	0.52
16:I:270:VAL:HA	16:I:274:ASN:HD22	1.75	0.52
17:J:144:ASP:HA	17:J:204:HIS:CG	2.45	0.52
17:J:338:THR:N	17:J:377:VAL:O	2.42	0.52
18:K:74:HIS:CE1	18:K:78:GLU:OE2	2.63	0.52
19:L:107:GLU:HG2	19:L:145:ARG:CA	2.37	0.52
19:L:305:LEU:HD11	19:L:334:ASP:HB2	1.92	0.52
19:L:370:LYS:HG2	19:L:410:ILE:CB	2.37	0.52
20:M:357:ARG:CZ	20:M:385:GLU:H	2.22	0.52
21:N:409:GLY:O	21:N:413:ALA:N	2.43	0.52
21:N:489:MET:C	21:N:524:ILE:HG22	2.35	0.52
23:P:54:SER:HB2	23:P:88:GLN:NE2	2.25	0.52
23:P:93:ILE:HG22	23:P:97:ILE:HG13	1.92	0.52
23:P:170:SER:N	23:P:176:LYS:HZ3	2.08	0.52
25:R:31:PHE:CZ	25:R:35:GLN:HG3	2.45	0.52
25:R:65:TYR:HD1	25:R:68:GLU:OE1	1.93	0.52
26:S:167:LEU:HA	26:S:171:TYR:CZ	2.45	0.52
26:S:307:LEU:O	26:S:311:GLN:HG2	2.09	0.52
26:S:401:LYS:HD3	26:S:442:PHE:HB3	1.92	0.52
27:T:157:TYR:HD2	27:T:189:ILE:HD11	1.74	0.52
28:U:169:ILE:O	28:U:172:GLU:HB3	2.09	0.52
28:U:263:LYS:HG3	28:U:265:LEU:HG	1.91	0.52
31:X:90:VAL:HA	31:X:96:ARG:HG2	1.92	0.52
33:Z:624:LEU:HA	33:Z:736:LEU:HD11	1.92	0.52
10:c:113:ARG:NH1	6:k:71:GLU:OE2	2.42	0.52
10:c:215:THR:N	10:c:228:LYS:O	2.31	0.52
11:d:143:ASP:HA	11:d:217:PRO:HB3	1.91	0.52
12:e:153:TYR:CE1	12:e:223:THR:HA	2.45	0.52
13:f:90:GLN:O	13:f:93:ASN:HB3	2.09	0.52
13:f:90:GLN:HB2	13:f:91:GLN:NE2	2.24	0.52
13:f:117:GLN:OE1	14:g:83:PRO:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:206:LEU:HB2	13:f:211:LEU:HB2	1.92	0.52
14:g:114:ASP:O	14:g:118:GLN:HG2	2.10	0.52
14:g:183:HIS:HB3	14:g:186:GLY:O	2.09	0.52
3:h:60:ILE:HG23	3:h:94:THR:HG23	1.92	0.52
7:l:83:PHE:CE1	7:l:88:ILE:HG12	2.45	0.52
4:4:207:MET:HG2	4:4:213:ALA:HB2	1.91	0.52
5:5:94:SER:O	5:5:97:GLU:HB3	2.10	0.52
5:5:107:PRO:HG2	5:5:124:PHE:HB2	1.92	0.52
6:6:94:SER:OG	6:6:95:ARG:N	2.42	0.52
6:6:162:LYS:NZ	6:6:198:GLN:N	2.54	0.52
8:A:148:GLU:HA	8:A:230:LYS:HE3	1.92	0.52
10:C:231:LYS:H	10:C:234:GLU:HB2	1.75	0.52
13:F:33:SER:HA	13:F:51:ARG:NH2	2.25	0.52
13:F:105:VAL:HG12	13:F:145:LEU:HD13	1.91	0.52
13:F:156:LEU:HD23	14:G:59:LEU:HA	1.92	0.52
14:G:41:LYS:HB3	14:G:161:LYS:HA	1.92	0.52
15:H:56:LEU:HB3	15:H:60:GLU:CD	2.35	0.52
15:H:291:VAL:HG11	15:H:336:LEU:HA	1.92	0.52
16:I:132:ILE:HA	16:I:156:ILE:HB	1.92	0.52
16:I:184:ILE:HG22	16:I:231:LEU:HB3	1.91	0.52
16:I:252:LEU:CD1	16:I:253:ILE:N	2.73	0.52
17:J:354:SER:O	17:J:358:VAL:N	2.41	0.52
18:K:128:ARG:HH21	29:V:272:GLY:H	1.56	0.52
18:K:177:LEU:O	18:K:181:LYS:N	2.25	0.52
19:L:102:GLY:O	19:L:103:GLN:NE2	2.42	0.52
19:L:103:GLN:HB2	20:M:128:PHE:HB3	1.91	0.52
19:L:334:ASP:OD2	19:L:336:ALA:HB3	2.10	0.52
20:M:220:MET:SD	20:M:228:LYS:HB3	2.50	0.52
20:M:278:ILE:HD12	20:M:323:VAL:HG22	1.91	0.52
20:M:417:GLU:HA	20:M:420:SER:CB	2.39	0.52
21:N:20:VAL:HG22	27:T:35:ILE:HD12	1.92	0.52
21:N:184:LYS:HB3	21:N:188:TYR:CZ	2.45	0.52
21:N:381:GLU:HA	21:N:384:LYS:HE2	1.92	0.52
21:N:474:SER:C	21:N:513:ILE:HD11	2.34	0.52
21:N:495:PRO:O	21:N:498:ILE:HB	2.10	0.52
21:N:510:HIS:CG	21:N:513:ILE:HD12	2.45	0.52
21:N:536:ILE:HD13	21:N:555:ILE:HG12	1.90	0.52
21:N:611:LYS:HA	21:N:618:ARG:HH21	1.74	0.52
21:N:899:ASN:HB2	21:N:902:VAL:CG2	2.40	0.52
22:O:5:HIS:HE1	22:O:31:LYS:H	1.58	0.52
22:O:97:LYS:O	22:O:100:ASP:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:81:LEU:HA	23:P:84:LYS:HD2	1.92	0.52
23:P:132:VAL:HG12	23:P:132:VAL:O	2.10	0.52
23:P:262:SER:O	23:P:266:TYR:HB2	2.09	0.52
24:Q:25:GLN:O	24:Q:29:SER:OG	2.12	0.52
24:Q:51:ARG:NH1	24:Q:85:MET:HE3	2.25	0.52
24:Q:98:LYS:NZ	24:Q:140:LYS:NZ	2.58	0.52
24:Q:379:GLN:CA	24:Q:382:LEU:HB3	2.39	0.52
25:R:76:GLN:O	25:R:84:LYS:N	2.42	0.52
25:R:225:LYS:HZ1	25:R:261:LEU:HA	1.75	0.52
25:R:336:LYS:HZ2	25:R:340:GLN:HE22	1.56	0.52
25:R:383:ARG:HB2	26:S:402:ILE:CG2	2.39	0.52
26:S:244:ASN:OD1	26:S:245:GLY:N	2.41	0.52
27:T:51:TYR:CE2	27:T:52:LEU:HG	2.45	0.52
28:U:102:SER:CB	28:U:105:LYS:HZ1	2.23	0.52
29:V:53:MET:O	29:V:105:VAL:N	2.31	0.52
31:X:87:PHE:HB2	31:X:99:PHE:CB	2.36	0.52
33:Z:897:HIS:CD2	33:Z:899:GLN:HG2	2.36	0.52
8:a:21:PRO:HA	9:b:23:TYR:CD1	2.45	0.52
9:b:186:GLU:HA	9:b:189:ILE:HB	1.92	0.52
10:c:35:ALA:O	10:c:165:VAL:N	2.33	0.52
10:c:226:TYR:HE2	10:c:228:LYS:HB2	1.74	0.52
10:c:231:LYS:H	10:c:234:GLU:HB2	1.75	0.52
11:d:198:SER:HA	11:d:201:GLU:HG2	1.92	0.52
13:f:137:TYR:CE2	13:f:218:LYS:HA	2.45	0.52
14:g:130:ARG:NH1	14:g:130:ARG:HG2	2.24	0.52
3:h:102:LYS:HB2	3:h:138:VAL:HG21	1.90	0.52
4:i:202:VAL:HB	4:i:220:LEU:H	1.75	0.52
5:j:164:PHE:CE1	5:j:198:ARG:HD2	2.44	0.52
6:k:94:SER:OG	6:k:95:ARG:N	2.42	0.52
2:2:178:GLY:O	2:2:182:HIS:ND1	2.40	0.51
7:7:270:GLU:O	7:7:274:LYS:N	2.28	0.51
1:8:31:ILE:O	1:8:158:GLY:N	2.27	0.51
8:A:40:ILE:HG23	8:A:56:GLN:HB2	1.92	0.51
8:A:49:ASP:O	8:A:152:PRO:HG3	2.11	0.51
8:A:130:GLN:HA	9:B:128:ARG:NE	2.26	0.51
8:A:203:VAL:CG1	8:A:244:ARG:HD2	2.40	0.51
10:C:26:LEU:HD23	10:C:29:ILE:HD12	1.92	0.51
10:C:116:SER:HB3	10:C:155:GLY:O	2.10	0.51
11:D:198:SER:HA	11:D:201:GLU:HG2	1.92	0.51
14:G:218:TRP:HE1	14:G:230:PHE:C	2.17	0.51
15:H:176:VAL:HG22	15:H:180:LYS:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:246:ILE:HG23	15:H:352:MET:HG3	1.92	0.51
15:H:252:PRO:HA	15:H:256:LYS:HD2	1.91	0.51
15:H:362:ASP:HB3	15:H:365:LEU:HG	1.92	0.51
17:J:47:GLN:O	17:J:51:LEU:N	2.32	0.51
17:J:160:ILE:HG12	17:J:187:LEU:HD21	1.91	0.51
17:J:241:ALA:HA	17:J:242:PRO:C	2.34	0.51
17:J:326:GLU:OE2	17:J:329:ARG:NH2	2.43	0.51
18:K:158:ILE:HD11	18:K:253:MET:H	1.75	0.51
19:L:374:PHE:CD2	19:L:415:LEU:HB2	2.44	0.51
20:M:382:SER:O	20:M:423:GLN:NE2	2.41	0.51
21:N:94:LYS:HE3	21:N:99:GLU:OE1	2.10	0.51
21:N:154:LEU:O	21:N:158:LEU:N	2.19	0.51
21:N:578:ASP:O	21:N:584:ARG:NH2	2.43	0.51
22:O:93:ASP:O	22:O:96:LEU:HB3	2.09	0.51
22:O:133:ILE:HG22	22:O:137:TYR:CE2	2.45	0.51
22:O:228:TYR:CD2	22:O:287:LEU:HD23	2.44	0.51
22:O:229:ASN:N	22:O:230:PHE:HB2	2.25	0.51
22:O:382:LYS:HZ2	22:O:383:LYS:HD3	1.75	0.51
23:P:204:LEU:HD22	23:P:220:TYR:CE2	2.46	0.51
23:P:270:LEU:HD22	23:P:337:HIS:HA	1.92	0.51
23:P:364:ARG:HA	23:P:367:GLU:CD	2.35	0.51
24:Q:75:ARG:HH11	24:Q:75:ARG:HB3	1.75	0.51
24:Q:267:LEU:HD23	24:Q:330:LEU:HD23	1.91	0.51
24:Q:295:GLY:N	24:Q:324:GLU:OE1	2.33	0.51
25:R:225:LYS:NZ	25:R:261:LEU:HA	2.25	0.51
26:S:258:GLU:HA	26:S:272:TYR:OH	2.11	0.51
26:S:352:VAL:O	26:S:387:VAL:HG11	2.11	0.51
26:S:465:ILE:HG21	27:T:260:ILE:CG2	2.40	0.51
27:T:59:LYS:NZ	27:T:102:LYS:HD2	2.24	0.51
27:T:108:LEU:HD21	27:T:169:GLN:NE2	2.25	0.51
28:U:21:HIS:CG	28:U:53:ALA:HB2	2.45	0.51
28:U:103:ASP:O	28:U:107:ASN:N	2.31	0.51
30:W:132:LEU:HD13	30:W:139:VAL:HG21	1.92	0.51
30:W:148:GLU:OE1	30:W:173:THR:HG22	2.10	0.51
33:Z:188:ALA:HB3	33:Z:190:THR:HG22	1.91	0.51
33:Z:417:SER:OG	33:Z:899:GLN:HA	2.09	0.51
33:Z:785:VAL:CG2	33:Z:864:MET:HB3	2.39	0.51
8:a:13:ASP:OD1	8:a:14:ARG:N	2.43	0.51
8:a:41:ASN:N	8:a:56:GLN:OE1	2.29	0.51
8:a:210:MET:HG2	8:a:218:PHE:CE2	2.46	0.51
9:b:12:PHE:HD2	10:c:21:GLN:NE2	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:117:GLN:NE2	11:d:131:VAL:O	2.43	0.51
13:f:87:TYR:HA	13:f:90:GLN:OE1	2.10	0.51
14:g:50:VAL:O	14:g:214:LEU:HD12	2.10	0.51
14:g:71:ASP:CG	14:g:72:ARG:H	2.18	0.51
14:g:80:GLY:HA3	14:g:134:VAL:HG12	1.92	0.51
6:k:30:ASP:HB2	6:k:177:LYS:HB3	1.92	0.51
6:k:45:SER:OG	6:k:103:LEU:HB2	2.10	0.51
7:l:79:LEU:HA	7:l:175:MET:HE1	1.92	0.51
7:l:110:ILE:N	7:l:118:GLY:O	2.39	0.51
7:l:142:GLU:HG2	7:l:147:GLU:O	2.10	0.51
2:2:59:ASN:ND2	2:2:244:ASN:HA	2.25	0.51
2:2:109:TYR:HH	14:g:71:ASP:H	1.57	0.51
3:3:66:GLY:CA	3:3:113:THR:HG22	2.40	0.51
3:3:85:TYR:CE1	3:3:89:TYR:HB2	2.44	0.51
3:3:121:TYR:HA	3:3:127:GLY:HA2	1.91	0.51
3:3:129:VAL:HB	3:3:141:LEU:O	2.10	0.51
4:4:59:ASN:HD21	4:4:218:ASN:HD21	1.59	0.51
5:5:18:LYS:HB2	5:5:157:ASN:O	2.10	0.51
5:5:164:PHE:CE1	5:5:198:ARG:HD2	2.44	0.51
6:6:160:LEU:HD12	6:6:163:LEU:HD23	1.91	0.51
7:7:124:ALA:O	7:7:128:GLN:N	2.38	0.51
7:7:142:GLU:HG2	7:7:147:GLU:O	2.10	0.51
7:7:176:ILE:N	7:7:188:TYR:O	2.28	0.51
1:8:165:ILE:HG12	1:8:206:SER:HB3	1.92	0.51
11:D:33:ALA:O	11:D:164:ILE:N	2.28	0.51
12:E:153:TYR:CE1	12:E:223:THR:HA	2.45	0.51
13:F:87:TYR:HA	13:F:90:GLN:OE1	2.10	0.51
13:F:94:TYR:HA	13:F:97:LEU:HD12	1.91	0.51
14:G:9:ASP:OD1	14:G:10:LEU:N	2.43	0.51
15:H:299:ARG:HA	15:H:302:LYS:HB3	1.91	0.51
15:H:310:GLU:HB3	15:H:313:ALA:HB2	1.92	0.51
17:J:51:LEU:HD11	18:K:72:GLN:HG3	1.93	0.51
17:J:147:TYR:CG	17:J:157:ILE:HG21	2.45	0.51
17:J:329:ARG:O	17:J:333:ARG:HB2	2.10	0.51
18:K:236:ARG:HD3	18:K:272:ASP:OD2	2.09	0.51
18:K:237:VAL:HB	18:K:271:ILE:HG12	1.91	0.51
19:L:94:ASP:O	19:L:98:LEU:HG	2.10	0.51
19:L:136:ASP:H	19:L:158:ILE:HD11	1.73	0.51
19:L:286:ILE:HA	19:L:301:ILE:HD12	1.92	0.51
21:N:276:GLU:O	21:N:280:GLN:N	2.35	0.51
21:N:614:ASN:ND2	21:N:617:VAL:H	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:649:VAL:HB	21:N:652:VAL:CG2	2.38	0.51
22:O:167:ILE:O	22:O:171:PHE:N	2.34	0.51
22:O:261:GLY:O	22:O:288:ARG:NH2	2.43	0.51
23:P:245:TYR:CE1	23:P:261:LEU:HB2	2.46	0.51
23:P:274:GLY:N	23:P:277:GLN:OE1	2.43	0.51
23:P:310:ARG:O	23:P:313:ILE:HB	2.10	0.51
23:P:342:GLN:O	23:P:346:ILE:HG13	2.10	0.51
23:P:386:GLN:HB3	23:P:388:ILE:HG13	1.93	0.51
23:P:418:ASN:O	23:P:421:GLU:HB2	2.10	0.51
23:P:432:LEU:O	23:P:436:GLU:HG3	2.11	0.51
23:P:440:HIS:CD2	23:P:442:LEU:HB2	2.45	0.51
24:Q:213:GLN:HG2	24:Q:217:GLU:OE2	2.11	0.51
25:R:410:LEU:O	25:R:414:LEU:HG	2.10	0.51
26:S:321:GLN:CD	26:S:321:GLN:H	2.18	0.51
26:S:436:ILE:HA	26:S:442:PHE:O	2.09	0.51
27:T:86:LYS:HB3	27:T:87:PRO:HD3	1.91	0.51
27:T:112:ASN:O	27:T:116:GLN:N	2.32	0.51
27:T:175:ASP:HA	27:T:178:THR:OG1	2.08	0.51
28:U:139:ALA:C	28:U:154:PHE:HA	2.35	0.51
28:U:276:ILE:HG23	29:V:291:ASN:HB3	1.92	0.51
29:V:36:LYS:NZ	29:V:69:PHE:HB3	2.25	0.51
30:W:17:ARG:HG3	30:W:18:ASN:HB2	1.93	0.51
30:W:56:GLY:HA2	30:W:83:GLY:HA3	1.92	0.51
31:X:88:ALA:HA	31:X:98:PHE:CD1	2.45	0.51
33:Z:389:PHE:C	33:Z:857:LEU:HA	2.35	0.51
33:Z:435:GLN:HE22	33:Z:438:LYS:HZ3	1.59	0.51
33:Z:463:HIS:O	33:Z:471:LEU:HD22	2.10	0.51
33:Z:482:ASP:HB2	33:Z:485:ILE:HB	1.91	0.51
33:Z:550:PHE:CD2	33:Z:587:THR:HA	2.45	0.51
33:Z:851:ALA:O	33:Z:855:LEU:N	2.23	0.51
10:c:186:VAL:HB	10:c:217:ARG:NH2	2.15	0.51
11:d:189:GLU:HG3	11:d:232:TYR:CE1	2.44	0.51
14:g:151:LEU:HD13	14:g:157:TYR:CD1	2.44	0.51
14:g:204:HIS:CE1	14:g:208:LYS:HA	2.45	0.51
3:h:12:LYS:CE	4:i:120:GLN:HB3	2.30	0.51
3:h:26:THR:OG1	3:h:142:PRO:O	2.15	0.51
3:h:121:TYR:HA	3:h:127:GLY:HA2	1.91	0.51
4:i:206:VAL:N	4:i:214:GLU:O	2.41	0.51
7:l:151:VAL:HG12	7:l:188:TYR:CD2	2.45	0.51
3:3:66:GLY:HA2	3:3:113:THR:HG22	1.92	0.51
3:3:181:ALA:O	3:3:185:ASP:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:195:ASP:OD1	4:4:197:GLY:N	2.43	0.51
4:4:236:ARG:NE	5:5:162:ASP:OD1	2.43	0.51
5:5:190:ILE:HG23	5:5:195:VAL:HG22	1.93	0.51
6:6:49:GLU:HG3	7:7:166:LYS:NZ	2.25	0.51
6:6:66:LEU:HD21	6:6:70:ARG:HH22	1.74	0.51
6:6:91:SER:O	6:6:94:SER:N	2.39	0.51
7:7:151:VAL:HG12	7:7:188:TYR:CD2	2.45	0.51
7:7:242:ARG:HH11	5:j:183:TRP:HH2	1.58	0.51
2:9:59:ASN:ND2	2:9:244:ASN:HA	2.25	0.51
10:C:90:THR:HA	10:C:93:ILE:HD12	1.91	0.51
10:C:138:ALA:HB1	10:C:216:ILE:HD12	1.93	0.51
12:E:147:HIS:HA	12:E:153:TYR:HA	1.92	0.51
13:F:6:TYR:CZ	13:F:15:PRO:HG3	2.46	0.51
13:F:67:ASP:N	13:F:70:MET:O	2.44	0.51
14:G:12:ASN:HB3	14:G:126:TYR:O	2.09	0.51
15:H:382:LEU:HA	15:H:385:ARG:NH2	2.25	0.51
15:H:390:ARG:CZ	15:H:390:ARG:HB2	2.41	0.51
15:H:428:MET:HG3	16:I:216:PRO:HD2	1.92	0.51
16:I:387:LEU:HD13	16:I:391:ASP:CB	2.40	0.51
17:J:26:LYS:NZ	21:N:103:SER:C	2.68	0.51
18:K:187:ALA:CB	18:K:336:ARG:HE	2.23	0.51
18:K:219:LYS:HB2	18:K:340:PHE:CD1	2.46	0.51
18:K:269:ILE:HG12	18:K:312:VAL:HG11	1.92	0.51
18:K:275:ASP:OD2	18:K:320:ARG:HB2	2.10	0.51
18:K:393:ARG:HD3	18:K:409:GLU:HB3	1.92	0.51
19:L:148:LEU:HD23	19:L:155:ILE:HA	1.91	0.51
19:L:164:ASP:O	19:L:166:LEU:N	2.43	0.51
19:L:251:ILE:HG12	19:L:262:ILE:HG21	1.91	0.51
19:L:257:GLY:O	19:L:261:ARG:N	2.24	0.51
20:M:357:ARG:HA	20:M:360:ILE:HD12	1.92	0.51
21:N:53:ASP:HA	21:N:58:ARG:NH1	2.25	0.51
21:N:178:SER:CB	21:N:181:GLU:HB2	2.40	0.51
21:N:246:LYS:HZ2	21:N:280:GLN:HB3	1.75	0.51
21:N:387:ALA:HA	21:N:390:LEU:HD12	1.90	0.51
21:N:513:ILE:O	21:N:517:LEU:HG	2.11	0.51
21:N:625:LEU:HD23	21:N:641:LEU:HD11	1.92	0.51
22:O:26:PHE:HA	22:O:61:LEU:HD13	1.91	0.51
24:Q:144:LEU:HD23	24:Q:147:GLN:OE1	2.10	0.51
25:R:89:ASN:HD22	25:R:92:ILE:HB	1.75	0.51
25:R:120:LEU:HB3	25:R:130:GLN:HA	1.93	0.51
25:R:373:PRO:O	25:R:375:LYS:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:230:LYS:HE2	26:S:256:LYS:HD3	1.91	0.51
26:S:437:ASN:HB2	26:S:440:ASP:HB2	1.92	0.51
27:T:204:ASN:O	27:T:208:LEU:N	2.33	0.51
28:U:7:LYS:HE3	28:U:158:PRO:O	2.10	0.51
28:U:139:ALA:O	28:U:140:ILE:CB	2.57	0.51
28:U:174:LEU:C	28:U:176:ARG:HH12	2.17	0.51
29:V:135:ARG:HB2	29:V:157:ARG:NE	2.25	0.51
29:V:243:SER:O	29:V:250:GLN:NE2	2.43	0.51
29:V:264:GLU:HG2	29:V:276:PRO:C	2.36	0.51
30:W:32:SER:O	30:W:36:ILE:HG13	2.10	0.51
30:W:188:SER:C	30:W:190:ILE:H	2.18	0.51
33:Z:269:TYR:CZ	33:Z:273:LEU:HB2	2.45	0.51
33:Z:927:VAL:HG12	33:Z:968:ASP:OD2	2.10	0.51
8:a:84:ASN:HB2	8:a:140:ILE:HB	1.91	0.51
8:a:195:ASN:O	8:a:196:GLU:HG3	2.11	0.51
9:b:242:GLU:HA	9:b:245:ASP:OD2	2.11	0.51
10:c:32:ALA:HB3	10:c:166:GLY:HA2	1.92	0.51
10:c:96:GLN:NE2	5:j:69:TYR:HA	2.25	0.51
10:c:152:ASN:O	10:c:155:GLY:N	2.39	0.51
13:f:64:ILE:HB	13:f:72:LEU:HG	1.92	0.51
14:g:9:ASP:OD1	14:g:10:LEU:N	2.43	0.51
14:g:39:GLY:N	14:g:163:ALA:O	2.32	0.51
14:g:201:TYR:O	14:g:205:GLU:HG2	2.10	0.51
3:h:60:ILE:HG12	3:h:94:THR:OG1	2.10	0.51
4:i:77:THR:O	4:i:81:THR:HG23	2.10	0.51
5:j:28:ARG:HA	5:j:38:ASN:HA	1.92	0.51
5:j:51:LEU:HD12	5:j:108:VAL:O	2.10	0.51
5:j:105:VAL:O	5:j:126:LEU:HB3	2.10	0.51
5:j:178:ASP:HB3	5:j:181:SER:HB2	1.90	0.51
6:k:38:LEU:N	6:k:42:THR:O	2.43	0.51
1:1:49:ILE:HG22	1:1:54:ILE:HA	1.92	0.51
1:1:80:GLY:HA2	1:1:83:LEU:HB3	1.93	0.51
2:2:95:HIS:CD2	2:2:99:LEU:HD11	2.46	0.51
4:4:225:ARG:HH12	5:5:151:GLU:HG3	1.75	0.51
5:5:204:GLN:O	7:l:241:HIS:ND1	2.40	0.51
7:7:141:HIS:HA	7:7:144:ARG:CZ	2.41	0.51
1:8:50:THR:O	1:8:53:SER:N	2.43	0.51
1:8:60:PRO:HG3	1:8:222:GLU:OE2	2.10	0.51
8:A:41:ASN:HB2	8:A:56:GLN:NE2	2.26	0.51
8:A:44:ALA:HB3	8:A:169:THR:HG22	1.92	0.51
9:B:186:GLU:HA	9:B:189:ILE:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:80:GLY:HA3	14:G:134:VAL:HG12	1.92	0.51
15:H:144:LYS:H	20:M:74:GLN:HB2	1.76	0.51
15:H:393:SER:HB3	15:H:404:TRP:CZ2	2.45	0.51
16:I:174:ASP:OD2	16:I:177:PRO:HB3	2.09	0.51
16:I:265:ARG:HH21	16:I:308:GLU:CD	2.18	0.51
16:I:285:ASP:HB2	16:I:330:LYS:NZ	2.25	0.51
17:J:150:VAL:HB	17:J:153:LEU:HD12	1.93	0.51
17:J:165:GLU:O	17:J:169:LYS:N	2.23	0.51
17:J:188:TYR:CD1	17:J:295:ASN:HA	2.45	0.51
18:K:184:ILE:HG12	18:K:338:ILE:HD13	1.92	0.51
18:K:270:PHE:HZ	18:K:317:ALA:HB2	1.75	0.51
18:K:371:LEU:HB3	18:K:375:ASN:ND2	2.23	0.51
19:L:105:ILE:HB	20:M:126:THR:OG1	2.10	0.51
19:L:221:TYR:HB3	19:L:327:THR:HG23	1.92	0.51
19:L:249:SER:H	20:M:303:ARG:HH21	1.58	0.51
19:L:392:ARG:O	19:L:396:THR:N	2.37	0.51
20:M:70:LYS:HB3	29:V:75:GLY:N	2.20	0.51
20:M:339:ARG:H	20:M:344:ASP:HA	1.74	0.51
21:N:12:LEU:HA	21:N:15:GLU:OE1	2.11	0.51
21:N:36:TRP:CD2	21:N:37:SER:N	2.78	0.51
21:N:318:LYS:NZ	21:N:348:PHE:CB	2.67	0.51
21:N:375:HIS:CD2	21:N:385:VAL:HG11	2.45	0.51
21:N:530:GLU:N	21:N:530:GLU:OE1	2.40	0.51
21:N:601:THR:O	21:N:605:ILE:N	2.29	0.51
21:N:762:ARG:HE	21:N:764:SER:HG	1.57	0.51
21:N:775:CYS:O	21:N:882:ILE:HG12	2.09	0.51
21:N:781:ALA:N	21:N:878:GLN:OE1	2.43	0.51
22:O:87:LYS:HZ3	22:O:138:LEU:HD13	1.74	0.51
22:O:147:ARG:CA	22:O:150:LEU:HB3	2.39	0.51
22:O:243:VAL:HA	22:O:248:TYR:HB3	1.92	0.51
22:O:290:LYS:HA	22:O:293:LEU:HB2	1.91	0.51
23:P:122:ILE:HG22	23:P:124:VAL:HG13	1.93	0.51
23:P:123:ARG:O	23:P:125:VAL:N	2.43	0.51
23:P:292:LYS:HA	23:P:294:GLU:HG3	1.91	0.51
23:P:341:LEU:O	23:P:344:ARG:HB3	2.11	0.51
24:Q:37:GLN:O	24:Q:46:VAL:HG12	2.10	0.51
24:Q:185:TYR:HA	24:Q:188:LEU:HB2	1.92	0.51
24:Q:430:ALA:HB1	28:U:296:ILE:HG22	1.90	0.51
25:R:335:ARG:NH1	25:R:376:GLN:C	2.69	0.51
26:S:235:ASN:HA	26:S:238:LEU:HD12	1.90	0.51
26:S:368:LYS:HG3	26:S:377:TYR:CD1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:113:LEU:HA	27:T:116:GLN:OE1	2.11	0.51
27:T:254:ASP:HB2	27:T:258:ASN:OD1	2.10	0.51
28:U:57:GLU:HB2	30:W:100:HIS:NE2	2.25	0.51
28:U:195:LYS:NZ	29:V:233:LYS:HE3	2.26	0.51
28:U:199:GLY:N	29:V:233:LYS:NZ	2.59	0.51
29:V:111:HIS:CD2	29:V:118:LEU:HD22	2.46	0.51
29:V:160:ASP:OD2	29:V:184:ASN:OD1	2.28	0.51
30:W:162:ASN:HB2	30:W:169:SER:OG	2.09	0.51
33:Z:413:ASP:OD2	33:Z:897:HIS:HB2	2.11	0.51
8:a:201:LYS:HD3	8:a:204:GLU:OE1	2.11	0.51
8:a:238:ALA:O	8:a:242:GLU:N	2.36	0.51
9:b:224:TYR:CE1	9:b:227:ILE:HD12	2.45	0.51
10:c:141:ASP:OD1	10:c:145:GLY:N	2.43	0.51
12:e:35:SER:HA	12:e:53:ARG:CZ	2.41	0.51
12:e:52:LYS:HG3	12:e:215:ASN:O	2.10	0.51
12:e:155:LEU:O	12:e:166:ARG:HA	2.09	0.51
13:f:33:SER:HA	13:f:51:ARG:NH2	2.25	0.51
13:f:34:VAL:HA	13:f:161:ILE:O	2.11	0.51
4:i:59:ASN:HD21	4:i:218:ASN:HD21	1.59	0.51
5:j:18:LYS:HB2	5:j:157:ASN:O	2.10	0.51
5:j:84:PRO:HB2	5:j:120:PHE:CD2	2.46	0.51
1:1:223:ILE:HD12	1:1:236:TYR:CE1	2.45	0.51
2:2:226:ARG:NH1	3:3:210:ASP:OD1	2.43	0.51
4:4:243:LYS:HB3	5:5:199:TYR:HD2	1.73	0.51
2:9:48:LYS:NZ	2:9:158:GLN:O	2.39	0.51
8:A:89:ASP:OD1	14:G:121:GLN:NE2	2.44	0.51
9:B:157:PHE:CE1	9:B:159:TRP:NE1	2.79	0.51
10:C:12:ILE:HA	11:D:19:GLN:HE22	1.76	0.51
10:C:141:ASP:OD1	10:C:145:GLY:N	2.43	0.51
11:D:7:ALA:HA	11:D:124:GLY:HA2	1.91	0.51
13:F:6:TYR:HD1	13:F:13:PHE:O	1.94	0.51
14:G:122:ALA:HA	14:G:125:LEU:HD12	1.92	0.51
15:H:420:ARG:O	15:H:424:THR:N	2.43	0.51
16:I:109:LEU:HD23	16:I:120:VAL:HG12	1.93	0.51
17:J:52:ASN:HD21	21:N:612:SER:CA	2.21	0.51
17:J:100:LYS:NZ	21:N:690:HIS:CE1	2.78	0.51
17:J:154:THR:O	17:J:158:LYS:N	2.22	0.51
18:K:138:ALA:N	18:K:148:ASP:O	2.40	0.51
18:K:156:SER:O	18:K:158:ILE:HB	2.10	0.51
20:M:37:LEU:HD23	20:M:71:ASN:HD22	1.75	0.51
20:M:222:GLY:O	20:M:228:LYS:HD2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:354:GLU:OE1	20:M:381:ARG:HG2	2.11	0.51
20:M:410:VAL:HA	20:M:414:ASP:OD2	2.11	0.51
21:N:13:LEU:HD22	21:N:42:GLU:HB3	1.93	0.51
21:N:120:ASP:OD2	21:N:126:LYS:HE2	2.10	0.51
21:N:237:LEU:HD23	21:N:240:GLN:OE1	2.10	0.51
21:N:362:TRP:N	29:V:165:ILE:O	2.22	0.51
21:N:891:VAL:N	21:N:906:ARG:O	2.43	0.51
22:O:25:LEU:HB3	22:O:29:PHE:CE2	2.46	0.51
23:P:188:ILE:C	23:P:191:GLY:H	2.18	0.51
24:Q:185:TYR:HA	24:Q:188:LEU:HD12	1.93	0.51
24:Q:340:ASP:HB3	24:Q:376:LYS:NZ	2.25	0.51
25:R:24:TYR:N	25:R:242:GLU:O	2.43	0.51
25:R:152:LYS:C	25:R:156:LYS:NZ	2.68	0.51
25:R:178:GLY:HA3	25:R:187:VAL:HG21	1.91	0.51
25:R:345:TYR:CB	25:R:348:LEU:HB2	2.41	0.51
25:R:366:ASN:O	25:R:370:LYS:HG3	2.11	0.51
27:T:66:ALA:HB1	27:T:78:PHE:CD1	2.45	0.51
27:T:99:SER:N	27:T:102:LYS:HD3	2.25	0.51
28:U:21:HIS:HD2	29:V:100:ARG:HH21	1.58	0.51
30:W:40:LYS:HE3	30:W:191:ILE:HG22	1.92	0.51
30:W:78:ASP:CG	30:W:79:THR:H	2.18	0.51
33:Z:259:PRO:HA	33:Z:612:GLY:HA2	1.92	0.51
33:Z:324:GLU:HG3	33:Z:499:GLY:O	2.11	0.51
33:Z:780:MET:HE3	33:Z:784:SER:OG	2.11	0.51
8:a:40:ILE:HG23	8:a:56:GLN:HB2	1.92	0.51
8:a:130:GLN:HA	9:b:128:ARG:HG2	1.92	0.51
8:a:204:GLU:HG3	8:a:244:ARG:HD2	1.92	0.51
10:c:138:ALA:HB1	10:c:216:ILE:HD12	1.93	0.51
14:g:42:CYS:HB2	14:g:187:LEU:O	2.11	0.51
3:h:185:ASP:HB3	3:h:188:SER:HB2	1.92	0.51
4:i:132:VAL:HG22	4:i:207:MET:HB3	1.92	0.51
7:l:94:ARG:NH2	7:l:247:GLY:HA3	2.25	0.51
7:l:127:CYS:HB3	7:l:131:GLU:CD	2.35	0.51
7:l:209:THR:O	7:l:212:TYR:HB2	2.10	0.51
1:1:76:PHE:CE2	1:1:78:ALA:HB3	2.44	0.51
1:1:78:ALA:HB1	2:2:134:TYR:CD1	2.44	0.51
2:2:136:ARG:HD2	2:2:139:LYS:HD2	1.91	0.51
3:3:60:ILE:HG23	3:3:94:THR:HG23	1.92	0.51
3:3:185:ASP:HB3	3:3:188:SER:HB2	1.92	0.51
4:4:131:GLY:HA2	4:4:207:MET:SD	2.50	0.51
6:6:22:THR:OG1	6:6:27:VAL:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:129:ILE:HA	1:8:143:SER:HA	1.91	0.51
2:9:216:VAL:HA	2:9:219:TYR:HD2	1.75	0.51
8:A:183:GLU:HG2	9:B:54:PRO:HG2	1.92	0.51
8:A:240:ASN:O	8:A:244:ARG:HG2	2.10	0.51
9:B:242:GLU:HA	9:B:245:ASP:OD2	2.10	0.51
10:C:139:GLY:O	10:C:147:GLN:N	2.35	0.51
11:D:228:GLU:HA	11:D:231:GLN:CD	2.36	0.51
14:G:126:TYR:HD2	14:G:129:VAL:CG1	2.22	0.51
14:G:204:HIS:CE1	14:G:208:LYS:HA	2.45	0.51
15:H:289:ARG:HA	15:H:292:ARG:HD2	1.93	0.51
16:I:177:PRO:HD2	16:I:238:ASN:N	2.25	0.51
16:I:253:ILE:CD1	16:I:255:LYS:HE2	2.38	0.51
17:J:182:PRO:HB2	17:J:289:LYS:HZ1	1.76	0.51
19:L:175:GLN:N	19:L:241:ALA:O	2.39	0.51
21:N:99:GLU:HA	21:N:102:VAL:HB	1.92	0.51
21:N:515:ARG:HD3	21:N:738:GLN:CD	2.36	0.51
21:N:775:CYS:O	21:N:866:TYR:HB2	2.11	0.51
21:N:889:ARG:O	21:N:908:ARG:HB2	2.10	0.51
22:O:11:LEU:HD13	22:O:44:SER:HB2	1.92	0.51
22:O:36:LYS:O	22:O:37:LEU:HB2	2.09	0.51
22:O:40:GLN:CD	22:O:40:GLN:H	2.17	0.51
22:O:310:PHE:CE2	22:O:343:GLN:HA	2.46	0.51
22:O:383:LYS:NZ	27:T:262:LYS:NZ	2.58	0.51
23:P:101:MET:CE	23:P:115:ARG:HG3	2.39	0.51
23:P:214:GLU:HG2	23:P:251:LYS:HB2	1.93	0.51
23:P:377:GLU:O	23:P:380:ILE:HB	2.11	0.51
24:Q:182:SER:OG	24:Q:198:LEU:N	2.43	0.51
25:R:286:LEU:C	25:R:288:SER:N	2.68	0.51
26:S:245:GLY:HA2	27:T:128:TYR:CD1	2.46	0.51
26:S:297:ILE:HG23	26:S:310:LEU:HD11	1.92	0.51
26:S:356:ASP:HB2	26:S:359:LYS:HB3	1.92	0.51
27:T:205:ILE:O	27:T:209:LEU:HG	2.11	0.51
27:T:250:MET:H	27:T:256:LYS:NZ	2.08	0.51
28:U:273:LEU:HD22	29:V:295:VAL:HG22	1.92	0.51
29:V:257:GLU:CD	29:V:287:THR:CG2	2.84	0.51
29:V:261:LEU:O	29:V:265:GLU:N	2.39	0.51
30:W:145:GLY:C	30:W:148:GLU:HA	2.35	0.51
8:a:93:ALA:O	8:a:97:ALA:N	2.29	0.51
8:a:98:LYS:NZ	3:h:88:GLN:HG2	2.25	0.51
9:b:136:ILE:HB	9:b:148:TYR:HB2	1.93	0.51
10:c:26:LEU:HD23	10:c:29:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:38:ILE:HA	10:c:162:ALA:HA	1.92	0.51
10:c:109:GLU:HA	10:c:112:VAL:HB	1.93	0.51
11:d:12:SER:N	11:d:16:HIS:O	2.40	0.51
11:d:120:TYR:HE2	11:d:129:PHE:CZ	2.29	0.51
12:e:95:ALA:HA	12:e:98:THR:HB	1.93	0.51
14:g:218:TRP:CZ3	14:g:220:SER:HB3	2.43	0.51
4:i:115:HIS:CE1	4:i:119:TYR:HE2	2.29	0.51
5:j:28:ARG:CB	5:j:183:TRP:HB2	2.39	0.51
5:j:40:PHE:HE2	5:j:42:LYS:HG2	1.74	0.51
5:j:160:PRO:O	5:j:163:LEU:HB3	2.11	0.51
1:1:60:PRO:HG3	1:1:222:GLU:OE2	2.10	0.51
1:1:105:ILE:HG13	1:1:142:TYR:HE2	1.74	0.51
4:4:59:ASN:HD21	4:4:218:ASN:ND2	2.08	0.51
5:5:149:MET:HE2	5:5:173:ASN:HB2	1.93	0.51
6:6:79:ALA:O	6:6:83:PHE:N	2.30	0.51
6:6:138:PHE:HA	7:l:210:PHE:CZ	2.46	0.51
7:7:276:LYS:HZ2	7:7:285:VAL:HB	1.75	0.51
1:8:30:THR:CA	1:8:74:ASN:ND2	2.74	0.51
1:8:49:ILE:HG22	1:8:54:ILE:HA	1.92	0.51
1:8:223:ILE:HD12	1:8:236:TYR:CE1	2.45	0.51
2:9:52:GLY:HA3	2:9:234:ASP:HA	1.93	0.51
8:A:88:PRO:HB3	14:G:155:GLY:C	2.36	0.51
9:B:5:TYR:OH	14:G:127:ASN:ND2	2.43	0.51
10:C:185:LYS:N	10:C:188:ASP:OD2	2.42	0.51
12:E:35:SER:HA	12:E:53:ARG:CZ	2.41	0.51
13:F:137:TYR:CE2	13:F:218:LYS:HA	2.45	0.51
13:F:228:GLU:OE1	13:F:228:GLU:N	2.29	0.51
14:G:42:CYS:HB2	14:G:187:LEU:O	2.11	0.51
15:H:273:ARG:HG3	15:H:307:PHE:CD2	2.45	0.51
16:I:259:ASP:O	16:I:262:ARG:N	2.44	0.51
16:I:265:ARG:O	16:I:269:LYS:HG3	2.09	0.51
17:J:52:ASN:HB3	21:N:611:LYS:HZ3	1.76	0.51
17:J:71:TYR:O	17:J:115:LEU:N	2.26	0.51
17:J:247:MET:HB3	17:J:250:ILE:HG21	1.92	0.51
17:J:317:PRO:CB	17:J:318:PRO:CA	2.86	0.51
17:J:364:GLU:HB2	17:J:385:ALA:HB1	1.92	0.51
18:K:303:MET:HE1	18:K:334:LEU:HB2	1.93	0.51
19:L:95:ILE:HG23	20:M:36:LEU:CD1	2.39	0.51
19:L:221:TYR:CA	19:L:228:LYS:HZ2	2.23	0.51
19:L:286:ILE:O	19:L:304:THR:HB	2.10	0.51
20:M:25:LEU:HA	20:M:28:GLN:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:271:LYS:NZ	20:M:315:PHE:CZ	2.78	0.51
21:N:70:TYR:OH	26:S:219:LYS:O	2.28	0.51
21:N:242:PHE:CE2	21:N:273:LEU:HD22	2.45	0.51
21:N:424:LYS:HA	21:N:427:ILE:HB	1.93	0.51
22:O:16:MET:HG2	22:O:72:LYS:HE2	1.91	0.51
22:O:43:GLU:CA	22:O:47:LYS:HD3	2.39	0.51
22:O:62:TYR:CE1	22:O:82:LEU:HD13	2.46	0.51
23:P:40:LEU:HD23	23:P:43:GLU:OE1	2.10	0.51
23:P:314:VAL:HA	23:P:317:THR:HB	1.92	0.51
23:P:407:ASN:C	23:P:409:SER:H	2.16	0.51
24:Q:86:MET:HE1	24:Q:90:LYS:HB2	1.92	0.51
24:Q:369:ASP:HB2	24:Q:372:GLN:HB2	1.91	0.51
25:R:107:GLU:HA	25:R:110:ILE:HB	1.91	0.51
25:R:131:ALA:HA	25:R:134:TRP:HD1	1.74	0.51
25:R:288:SER:OG	25:R:311:THR:HG23	2.10	0.51
25:R:407:GLY:O	25:R:410:LEU:HB2	2.10	0.51
26:S:218:LEU:HD22	26:S:230:LYS:NZ	2.25	0.51
26:S:251:SER:O	26:S:254:ILE:HB	2.10	0.51
26:S:458:GLN:HA	26:S:461:PHE:HD2	1.75	0.51
26:S:462:ASP:HA	26:S:465:ILE:HD12	1.93	0.51
30:W:133:LYS:HE3	30:W:163:ASN:HB2	1.93	0.51
31:X:27:ILE:HA	31:X:59:ARG:HH12	1.74	0.51
33:Z:359:LYS:HA	33:Z:394:TYR:CD1	2.46	0.51
33:Z:608:TYR:HB3	33:Z:610:GLY:O	2.11	0.51
8:a:41:ASN:HB2	8:a:56:GLN:NE2	2.26	0.51
8:a:148:GLU:HA	8:a:230:LYS:HE3	1.92	0.51
10:c:122:TYR:HE2	10:c:131:PHE:CZ	2.27	0.51
12:e:71:ASP:OD2	12:e:73:HIS:CE1	2.64	0.51
12:e:213:ASP:N	12:e:216:ASN:OD1	2.33	0.51
13:f:26:LEU:HA	13:f:29:ILE:HD12	1.91	0.51
6:k:21:VAL:HB	6:k:29:LYS:HB3	1.91	0.51
7:l:111:GLU:HA	7:l:117:LEU:HD23	1.92	0.51
7:l:276:LYS:HZ2	7:l:285:VAL:CG1	2.24	0.51
1:1:167:PRO:HD3	7:l:100:TRP:HH2	1.74	0.51
2:2:109:TYR:CD2	14:g:93:ARG:HD3	2.45	0.51
2:2:221:ASP:HB3	2:2:224:SER:CB	2.40	0.51
2:2:241:PHE:CE2	2:2:243:LYS:HG2	2.46	0.51
2:2:253:ASP:CB	4:4:173:GLN:HE22	2.24	0.51
3:3:72:GLN:HB3	4:4:113:LYS:HZ1	1.74	0.51
4:4:146:GLY:O	4:4:148:THR:HG23	2.11	0.51
5:5:15:MET:HA	5:5:136:PHE:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:45:SER:OG	6:6:103:LEU:HB2	2.10	0.51
6:6:60:ILE:HA	6:6:63:ASN:OD1	2.11	0.51
1:8:220:GLY:H	1:8:238:LEU:HB2	1.76	0.51
2:9:136:ARG:HD2	2:9:139:LYS:HD2	1.91	0.51
2:9:258:ILE:HG23	4:i:150:VAL:HG13	1.91	0.51
8:A:243:GLU:HG2	8:A:244:ARG:NH1	2.26	0.51
10:C:152:ASN:O	10:C:155:GLY:N	2.39	0.51
14:G:88:LEU:O	14:G:91:ARG:HB3	2.10	0.51
15:H:72:SER:CB	15:H:172:MET:HG2	2.41	0.51
15:H:219:GLU:CD	15:H:222:ARG:HE	2.19	0.51
15:H:340:LEU:HD21	15:H:351:VAL:HG11	1.92	0.51
15:H:435:ARG:HG3	15:H:439:THR:HG23	1.93	0.51
17:J:52:ASN:HA	17:J:55:VAL:HB	1.92	0.51
17:J:62:LEU:HA	17:J:65:LEU:HB2	1.93	0.51
17:J:74:GLU:HG3	17:J:110:SER:HA	1.93	0.51
17:J:114:CYS:SG	17:J:124:LYS:HE2	2.50	0.51
17:J:254:GLY:HA2	17:J:257:ARG:HB2	1.92	0.51
18:K:217:THR:CA	18:K:381:ALA:HB2	2.41	0.51
18:K:235:ILE:HD12	18:K:261:ALA:HB2	1.91	0.51
18:K:385:ALA:HB1	19:L:340:PRO:HG2	1.93	0.51
19:L:294:GLY:O	19:L:298:ASP:HB2	2.10	0.51
20:M:368:MET:HB3	20:M:410:VAL:HG21	1.92	0.51
20:M:377:GLN:O	20:M:381:ARG:N	2.39	0.51
21:N:120:ASP:OD2	21:N:123:PHE:N	2.44	0.51
21:N:272:ILE:O	21:N:276:GLU:HG2	2.10	0.51
21:N:344:THR:N	21:N:374:ILE:O	2.37	0.51
21:N:371:LEU:HB2	21:N:386:MET:HE1	1.93	0.51
21:N:731:VAL:HG12	21:N:735:MET:HG2	1.92	0.51
22:O:65:PHE:O	22:O:69:PHE:N	2.43	0.51
22:O:105:GLN:HG3	22:O:111:SER:HB3	1.92	0.51
22:O:302:VAL:HA	22:O:305:ILE:CG1	2.41	0.51
22:O:320:PRO:O	22:O:324:VAL:HG23	2.10	0.51
22:O:367:LYS:NZ	28:U:201:GLN:CD	2.68	0.51
23:P:357:TYR:CZ	23:P:360:ILE:HD12	2.45	0.51
23:P:369:LEU:HD22	23:P:376:THR:HG23	1.93	0.51
24:Q:164:GLU:HG3	24:Q:169:ASP:HB3	1.93	0.51
24:Q:340:ASP:O	24:Q:376:LYS:NZ	2.39	0.51
24:Q:382:LEU:C	25:R:263:ARG:HH12	2.17	0.51
24:Q:392:GLN:HB2	25:R:348:LEU:HA	1.92	0.51
24:Q:427:PHE:HB2	25:R:417:TYR:CE1	2.46	0.51
25:R:39:SER:OG	25:R:42:GLN:N	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:117:ILE:O	25:R:121:GLU:N	2.38	0.51
25:R:148:ASP:C	25:R:152:LYS:HZ3	2.19	0.51
25:R:390:THR:HG22	25:R:391:ASN:N	2.26	0.51
27:T:90:PHE:CE2	27:T:129:LEU:HD12	2.46	0.51
28:U:28:LYS:HZ3	28:U:31:LYS:NZ	2.03	0.51
28:U:114:THR:HG21	28:U:118:PRO:HA	1.93	0.51
29:V:51:GLY:HA3	29:V:69:PHE:O	2.10	0.51
30:W:35:PHE:CG	30:W:182:TYR:HB2	2.45	0.51
33:Z:884:THR:HG22	33:Z:903:MET:HB2	1.92	0.51
8:a:44:ALA:HB3	8:a:169:THR:HG22	1.92	0.51
9:b:157:PHE:CE1	9:b:159:TRP:NE1	2.79	0.51
10:c:156:ASN:ND2	11:d:79:ASN:OD1	2.44	0.51
11:d:93:ALA:HA	11:d:104:VAL:HG13	1.92	0.51
4:i:41:VAL:O	4:i:207:MET:N	2.39	0.51
4:i:146:GLY:O	4:i:148:THR:HG23	2.11	0.51
4:i:215:TYR:OH	4:i:217:ARG:HA	2.11	0.51
5:j:63:LEU:HD12	5:j:105:VAL:HG11	1.92	0.51
5:j:189:ILE:O	5:j:196:VAL:N	2.38	0.51
5:j:190:ILE:HG23	5:j:195:VAL:HG22	1.93	0.51
6:k:67:TYR:O	6:k:70:ARG:HB3	2.10	0.51
7:l:176:ILE:N	7:l:188:TYR:O	2.28	0.51
1:1:57:ARG:NH1	1:1:240:ARG:O	2.27	0.51
2:2:261:TYR:OH	3:3:72:GLN:O	2.28	0.51
1:8:30:THR:HG23	1:8:158:GLY:C	2.36	0.51
1:8:218:GLY:C	1:8:220:GLY:H	2.19	0.51
8:A:18:ILE:HD12	9:B:20:GLN:NE2	2.25	0.51
8:A:210:MET:HG2	8:A:218:PHE:CE2	2.46	0.51
8:A:241:ILE:O	8:A:245:LEU:N	2.38	0.51
9:B:128:ARG:HH12	9:B:130:PHE:HA	1.75	0.51
10:C:24:TYR:O	10:C:28:SER:N	2.37	0.51
14:G:71:ASP:OD1	14:G:72:ARG:N	2.43	0.51
14:G:201:TYR:O	14:G:205:GLU:HG2	2.10	0.51
15:H:98:GLN:O	15:H:177:ASP:HB3	2.11	0.51
15:H:217:GLN:O	15:H:221:LEU:HG	2.11	0.51
17:J:161:LYS:HG3	17:J:165:GLU:HB2	1.92	0.51
17:J:183:LYS:O	17:J:289:LYS:HA	2.10	0.51
17:J:368:TYR:HE2	17:J:385:ALA:N	2.08	0.51
18:K:211:LEU:HB3	18:K:219:LYS:HE3	1.93	0.51
18:K:281:ARG:CZ	18:K:290:ARG:HE	2.24	0.51
19:L:357:ARG:HD2	19:L:383:SER:HB3	1.91	0.51
20:M:74:GLN:HE22	20:M:150:LYS:HE3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:33:ASP:O	21:N:36:TRP:CD1	2.64	0.51
21:N:258:ALA:HA	21:N:261:LEU:HB3	1.92	0.51
21:N:315:ASN:HA	21:N:318:LYS:HB2	1.93	0.51
22:O:92:PHE:CE2	22:O:96:LEU:HD22	2.45	0.51
22:O:311:GLU:HG3	22:O:321:LYS:HE3	1.93	0.51
23:P:112:LEU:HD22	23:P:115:ARG:CZ	2.41	0.51
23:P:163:LEU:HA	23:P:167:THR:HG23	1.93	0.51
23:P:319:GLU:HB2	23:P:324:GLU:CB	2.39	0.51
23:P:354:SER:HA	23:P:402:PHE:CE1	2.46	0.51
23:P:407:ASN:C	23:P:409:SER:N	2.69	0.51
24:Q:298:ALA:HB2	24:Q:321:TYR:CB	2.41	0.51
24:Q:306:TYR:HA	24:Q:314:PHE:HZ	1.74	0.51
25:R:168:ILE:O	25:R:171:MET:HB2	2.10	0.51
25:R:214:TYR:CE2	25:R:227:ALA:HB2	2.46	0.51
25:R:229:LYS:HZ2	25:R:230:LEU:HD12	1.75	0.51
25:R:347:THR:HA	25:R:389:GLU:CD	2.36	0.51
26:S:230:LYS:HD3	26:S:257:LEU:HD11	1.93	0.51
26:S:319:CYS:O	26:S:322:LEU:HB2	2.10	0.51
26:S:456:ASP:O	26:S:459:GLN:HB2	2.10	0.51
27:T:57:ILE:HG13	27:T:60:ARG:HD2	1.92	0.51
28:U:173:HIS:CE1	29:V:151:VAL:HG23	2.45	0.51
31:X:10:PHE:CE1	31:X:124:LYS:HB3	2.46	0.51
33:Z:161:ILE:HB	33:Z:203:LEU:CD1	2.40	0.51
33:Z:489:ALA:O	33:Z:493:LEU:N	2.26	0.51
33:Z:764:LEU:HD23	33:Z:767:TYR:HE2	1.75	0.51
8:a:119:LYS:NZ	4:i:98:TYR:C	2.68	0.51
9:b:108:LYS:HG3	9:b:109:LEU:H	1.75	0.51
10:c:96:GLN:HE22	5:j:72:ASN:HD22	1.57	0.51
11:d:88:LYS:O	11:d:92:GLU:N	2.31	0.51
12:e:147:HIS:HA	12:e:153:TYR:HA	1.92	0.51
14:g:41:LYS:HB3	14:g:161:LYS:HA	1.92	0.51
3:h:38:ARG:HD2	3:h:187:SER:C	2.36	0.51
7:l:94:ARG:NH1	7:l:244:ALA:C	2.69	0.51
1:1:196:VAL:O	1:1:199:VAL:HB	2.10	0.51
2:2:120:LEU:HD23	13:f:101:ARG:HH12	1.76	0.51
2:2:216:VAL:HA	2:2:219:TYR:HD2	1.75	0.51
4:4:75:ALA:HB3	4:4:126:TYR:HB2	1.93	0.51
6:6:30:ASP:HB2	6:6:177:LYS:HB3	1.92	0.51
6:6:196:GLN:CD	6:6:196:GLN:H	2.19	0.51
1:8:80:GLY:HA2	1:8:83:LEU:HB3	1.93	0.51
8:A:131:ARG:NH1	9:B:127:VAL:CG1	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:B:186:GLU:HA	9:B:189:ILE:HD12	1.92	0.51
10:C:149:TYR:CE2	11:D:59:ILE:HB	2.45	0.51
11:D:184:PRO:O	11:D:186:ALA:N	2.43	0.51
11:D:188:VAL:HG13	11:D:214:VAL:HG11	1.93	0.51
12:E:144:ILE:N	12:E:156:PHE:O	2.25	0.51
13:F:168:ALA:HA	13:F:199:GLN:HB2	1.92	0.51
15:H:68:GLY:O	15:H:72:SER:N	2.42	0.51
15:H:172:MET:HG3	16:I:130:VAL:CG1	2.40	0.51
15:H:311:ILE:HG12	15:H:355:THR:HB	1.92	0.51
16:I:403:ALA:HB2	16:I:411:VAL:HG13	1.92	0.51
16:I:423:VAL:CA	17:J:306:ARG:HH11	2.24	0.51
17:J:114:CYS:SG	18:K:119:VAL:HG21	2.51	0.51
17:J:156:GLN:O	17:J:160:ILE:HG13	2.11	0.51
18:K:76:LYS:NZ	27:T:272:ASN:HD21	2.08	0.51
19:L:374:PHE:CZ	19:L:415:LEU:HD22	2.46	0.51
20:M:2:ALA:O	20:M:5:GLU:HB2	2.10	0.51
20:M:21:GLU:HG2	30:W:73:LEU:CB	2.36	0.51
20:M:401:ILE:HD13	20:M:417:GLU:HB3	1.93	0.51
21:N:301:THR:OG1	21:N:919:THR:OG1	2.18	0.51
21:N:417:ARG:O	21:N:420:THR:HB	2.10	0.51
21:N:439:VAL:HA	21:N:442:LEU:HB3	1.92	0.51
21:N:614:ASN:OD1	21:N:616:HIS:N	2.40	0.51
21:N:676:ALA:O	21:N:680:LYS:N	2.21	0.51
21:N:777:ALA:H	21:N:866:TYR:HD1	1.59	0.51
21:N:920:VAL:O	21:N:923:MET:HB2	2.10	0.51
22:O:81:TYR:C	22:O:85:SER:H	2.20	0.51
22:O:167:ILE:O	22:O:170:SER:HB3	2.10	0.51
23:P:440:HIS:CD2	28:U:213:LYS:HE2	2.46	0.51
23:P:440:HIS:HD2	28:U:213:LYS:CE	2.24	0.51
25:R:79:LEU:N	25:R:93:LYS:HG3	2.26	0.51
25:R:84:LYS:O	25:R:87:SER:HB3	2.10	0.51
25:R:292:LEU:HD11	25:R:310:GLU:OE2	2.11	0.51
25:R:297:TYR:C	25:R:299:SER:H	2.18	0.51
26:S:177:ASN:HB3	26:S:228:GLU:CD	2.35	0.51
26:S:288:THR:HA	26:S:291:GLU:OE1	2.11	0.51
26:S:424:SER:O	26:S:428:ARG:N	2.36	0.51
27:T:52:LEU:HA	27:T:56:MET:HG3	1.93	0.51
28:U:137:TYR:HA	28:U:155:LEU:O	2.11	0.51
29:V:95:LEU:HA	29:V:98:THR:HB	1.93	0.51
29:V:259:LYS:C	29:V:261:LEU:H	2.19	0.51
31:X:24:CYS:SG	31:X:86:ILE:HD11	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:348:LEU:HD23	33:Z:353:VAL:HB	1.92	0.51
33:Z:800:SER:O	33:Z:808:SER:N	2.44	0.51
8:a:223:LEU:HB3	8:a:225:VAL:HG23	1.91	0.51
8:a:227:VAL:N	8:a:234:PHE:O	2.37	0.51
9:b:128:ARG:HH12	9:b:130:PHE:HA	1.75	0.51
9:b:194:LEU:O	9:b:198:GLU:HG2	2.11	0.51
9:b:200:VAL:HG21	9:b:204:PHE:HD1	1.75	0.51
9:b:243:ILE:O	9:b:247:LEU:HG	2.11	0.51
10:c:184:MET:CE	10:c:192:LEU:HD13	2.41	0.51
11:d:228:GLU:HA	11:d:231:GLN:CD	2.36	0.51
13:f:12:THR:HA	14:g:23:GLN:NE2	2.25	0.51
13:f:67:ASP:N	13:f:70:MET:O	2.44	0.51
14:g:88:LEU:O	14:g:91:ARG:HB3	2.10	0.51
3:h:130:TYR:CE1	3:h:140:LYS:HB2	2.46	0.51
4:i:88:ILE:HG13	4:i:112:LEU:CD2	2.41	0.51
4:i:123:ILE:O	4:i:144:ALA:HB1	2.11	0.51
4:i:195:ASP:OD1	4:i:197:GLY:N	2.44	0.51
5:j:15:MET:HG2	5:j:136:PHE:HB3	1.94	0.51
3:3:78:VAL:HG11	3:3:101:PHE:CE2	2.46	0.50
4:4:129:VAL:O	4:4:140:PHE:N	2.40	0.50
4:4:215:TYR:OH	4:4:217:ARG:HA	2.11	0.50
5:5:73:LEU:HG	10:C:96:GLN:HG3	1.92	0.50
5:5:160:PRO:O	5:5:163:LEU:HB3	2.10	0.50
6:6:170:LYS:HE3	6:6:171:ARG:NE	2.25	0.50
7:7:276:LYS:HZ2	7:7:285:VAL:CG1	2.24	0.50
2:9:132:VAL:O	2:9:135:GLN:HB2	2.10	0.50
9:B:180:ASN:H	9:B:183:LEU:HG	1.76	0.50
10:C:16:GLU:HB3	11:D:29:ARG:NH2	2.26	0.50
12:E:123:PHE:CE1	12:E:137:PRO:HG3	2.47	0.50
12:E:123:PHE:CA	12:E:134:MET:HB3	2.41	0.50
14:G:8:TYR:HB3	14:G:16:SER:HB3	1.93	0.50
14:G:204:HIS:O	14:G:208:LYS:N	2.45	0.50
15:H:65:GLU:O	15:H:69:VAL:N	2.30	0.50
16:I:280:PHE:HA	16:I:325:ILE:HB	1.92	0.50
16:I:423:VAL:C	17:J:306:ARG:HH11	2.18	0.50
17:J:34:ILE:HA	17:J:37:LYS:CD	2.40	0.50
17:J:159:GLU:HB3	17:J:314:ILE:HD13	1.93	0.50
17:J:193:THR:HA	17:J:355:GLY:N	2.26	0.50
17:J:320:SER:O	17:J:322:ALA:N	2.44	0.50
19:L:370:LYS:NZ	19:L:374:PHE:CZ	2.79	0.50
20:M:121:THR:HG23	20:M:125:GLN:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:193:LEU:O	20:M:197:ILE:N	2.44	0.50
20:M:220:MET:HG2	20:M:349:PHE:HE1	1.75	0.50
21:N:186:ILE:O	21:N:190:LEU:N	2.20	0.50
21:N:366:THR:HG23	21:N:747:HIS:HE1	1.76	0.50
22:O:58:ARG:HA	22:O:61:LEU:H	1.76	0.50
22:O:194:LEU:O	22:O:198:THR:N	2.43	0.50
23:P:38:GLN:NE2	23:P:61:LYS:HE2	2.26	0.50
23:P:58:VAL:O	23:P:62:ILE:HG13	2.11	0.50
23:P:233:GLU:O	23:P:237:VAL:N	2.33	0.50
24:Q:51:ARG:HG3	24:Q:85:MET:HE1	1.93	0.50
24:Q:64:LEU:HA	24:Q:67:THR:HB	1.93	0.50
24:Q:72:ASP:HA	24:Q:75:ARG:HG3	1.94	0.50
24:Q:178:HIS:HB2	24:Q:201:ALA:HB2	1.92	0.50
25:R:54:ILE:HG21	25:R:63:TYR:CE2	2.46	0.50
25:R:292:LEU:HB3	25:R:307:TYR:CD2	2.46	0.50
26:S:138:MET:HE3	26:S:178:LEU:O	2.12	0.50
26:S:217:PHE:HA	26:S:220:ILE:HB	1.93	0.50
26:S:283:GLN:OE1	27:T:120:THR:HG21	2.09	0.50
26:S:338:MET:CG	26:S:343:LEU:H	2.23	0.50
26:S:344:PRO:HG3	26:S:367:TYR:CD1	2.46	0.50
26:S:380:CYS:O	26:S:384:ARG:HG3	2.11	0.50
27:T:75:PHE:O	27:T:79:GLU:N	2.23	0.50
27:T:202:LEU:H	27:T:232:LYS:HA	1.75	0.50
28:U:6:GLU:HA	28:U:44:SER:C	2.36	0.50
32:Y:83:ARG:O	32:Y:87:GLU:HG3	2.10	0.50
33:Z:413:ASP:C	33:Z:898:HIS:HB2	2.36	0.50
33:Z:469:PRO:HB3	33:Z:472:LEU:HD12	1.92	0.50
33:Z:475:GLN:NE2	33:Z:504:GLU:HB2	2.25	0.50
33:Z:913:ILE:HG21	33:Z:966:GLU:OE1	2.11	0.50
8:a:117:LEU:O	8:a:120:ARG:HB3	2.11	0.50
8:a:118:ALA:O	8:a:122:ALA:N	2.25	0.50
9:b:186:GLU:HA	9:b:189:ILE:HD12	1.92	0.50
11:d:67:ILE:O	6:k:69:ILE:HG21	2.11	0.50
11:d:97:ARG:HH21	6:k:65:GLN:HE22	1.58	0.50
13:f:6:TYR:HD1	13:f:13:PHE:O	1.94	0.50
4:i:30:THR:N	4:i:197:GLY:O	2.45	0.50
6:k:19:LYS:HB3	6:k:31:SER:C	2.37	0.50
6:k:60:ILE:HA	6:k:63:ASN:OD1	2.11	0.50
6:k:196:GLN:CD	6:k:196:GLN:H	2.19	0.50
7:l:151:VAL:N	7:l:183:GLU:OE2	2.44	0.50
1:1:46:THR:HG22	1:1:59:GLU:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:195:SER:O	1:1:199:VAL:HG23	2.12	0.50
1:1:225:ILE:HG21	1:1:232:ARG:NH2	2.27	0.50
2:2:52:GLY:HA3	2:2:234:ASP:HA	1.93	0.50
2:2:89:ASP:OD1	2:2:91:SER:N	2.44	0.50
4:4:77:THR:O	4:4:81:THR:HG23	2.10	0.50
4:4:133:ASP:OD1	4:4:136:GLY:N	2.42	0.50
5:5:105:VAL:O	5:5:126:LEU:HB3	2.10	0.50
7:7:84:GLN:HA	7:7:221:TRP:NE1	2.26	0.50
7:7:183:GLU:HB3	7:7:186:THR:OG1	2.11	0.50
1:8:105:ILE:HG13	1:8:142:TYR:HE2	1.74	0.50
1:8:195:SER:O	1:8:199:VAL:HG23	2.12	0.50
1:8:196:VAL:O	1:8:199:VAL:HB	2.10	0.50
2:9:59:ASN:HD21	2:9:244:ASN:HA	1.77	0.50
2:9:89:ASP:OD1	2:9:91:SER:N	2.44	0.50
2:9:134:TYR:O	2:9:137:ARG:HB3	2.11	0.50
8:A:195:ASN:O	8:A:196:GLU:HG3	2.11	0.50
9:B:243:ILE:O	9:B:247:LEU:HG	2.11	0.50
10:C:35:ALA:O	10:C:165:VAL:N	2.33	0.50
10:C:218:LYS:CA	10:C:225:VAL:HA	2.39	0.50
11:D:93:ALA:HA	11:D:104:VAL:HG13	1.92	0.50
12:E:182:GLU:CD	12:E:206:GLN:HE22	2.20	0.50
13:F:81:ALA:O	13:F:85:SER:N	2.26	0.50
14:G:11:SER:HB3	14:G:127:ASN:HB3	1.89	0.50
15:H:104:LYS:H	15:H:144:LYS:CE	2.25	0.50
17:J:376:HIS:CE1	25:R:204:TRP:HB3	2.47	0.50
19:L:138:SER:OG	19:L:139:LYS:N	2.45	0.50
19:L:152:THR:O	19:L:154:THR:HG23	2.12	0.50
21:N:133:LEU:O	21:N:137:PHE:N	2.27	0.50
21:N:469:VAL:HA	21:N:472:ASN:ND2	2.26	0.50
22:O:15:ARG:HB3	30:W:18:ASN:O	2.12	0.50
22:O:383:LYS:HB3	22:O:387:ARG:HB2	1.92	0.50
23:P:119:ILE:HG13	23:P:143:LEU:HD22	1.94	0.50
23:P:350:LEU:HD23	23:P:353:ILE:HD12	1.93	0.50
24:Q:71:LYS:HG3	24:Q:104:PHE:CZ	2.46	0.50
24:Q:136:SER:HA	24:Q:139:ILE:HD12	1.93	0.50
24:Q:263:LYS:HA	24:Q:266:LEU:HD12	1.92	0.50
25:R:58:GLU:HG3	25:R:144:ILE:HG12	1.93	0.50
25:R:67:CYS:SG	25:R:94:PHE:CE1	3.05	0.50
25:R:164:THR:HA	25:R:167:LYS:HB3	1.94	0.50
26:S:267:SER:O	26:S:271:ARG:HG3	2.11	0.50
26:S:381:VAL:HA	26:S:384:ARG:HE	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:451:ILE:HG13	26:S:453:ASP:H	1.76	0.50
26:S:462:ASP:HA	26:S:465:ILE:HB	1.93	0.50
27:T:94:HIS:CE1	27:T:97:SER:C	2.89	0.50
27:T:126:LEU:HD12	27:T:129:LEU:HD23	1.91	0.50
27:T:145:PRO:HA	27:T:148:LEU:HD12	1.92	0.50
28:U:93:TYR:CB	28:U:121:LEU:HB3	2.41	0.50
28:U:119:LEU:HD12	28:U:137:TYR:O	2.11	0.50
28:U:273:LEU:O	28:U:276:ILE:HB	2.12	0.50
29:V:47:MET:HE2	29:V:49:VAL:HA	1.94	0.50
29:V:60:ASP:O	29:V:62:THR:N	2.44	0.50
33:Z:435:GLN:O	33:Z:439:TYR:HD1	1.94	0.50
8:a:126:GLN:OE1	9:b:83:ARG:NH2	2.43	0.50
8:a:155:TYR:CD1	8:a:165:GLY:HA2	2.46	0.50
8:a:178:ILE:HG12	8:a:213:ALA:HB3	1.93	0.50
8:a:238:ALA:HA	8:a:241:ILE:HD12	1.92	0.50
9:b:80:PRO:O	9:b:83:ARG:N	2.44	0.50
11:d:37:LYS:HG2	11:d:160:SER:O	2.12	0.50
12:e:73:HIS:CD2	12:e:106:ASP:HB3	2.46	0.50
12:e:198:LEU:HD21	12:e:242:GLU:CD	2.35	0.50
13:f:6:TYR:CZ	13:f:15:PRO:HG3	2.46	0.50
3:h:151:THR:OG1	3:h:152:PHE:N	2.40	0.50
4:i:75:ALA:HB3	4:i:126:TYR:HB2	1.93	0.50
4:i:91:ASN:O	4:i:95:HIS:N	2.30	0.50
5:j:16:THR:OG1	5:j:134:LYS:O	2.22	0.50
7:l:183:GLU:HB3	7:l:186:THR:OG1	2.11	0.50
1:1:73:ALA:HB1	1:1:126:VAL:HG21	1.94	0.50
1:1:170:ASP:O	1:1:176:LYS:N	2.31	0.50
1:1:220:GLY:H	1:1:238:LEU:HB2	1.76	0.50
1:1:221:LEU:HB3	1:1:236:TYR:HB2	1.93	0.50
2:2:59:ASN:HD21	2:2:244:ASN:HA	1.77	0.50
3:3:20:THR:CA	3:3:188:SER:OG	2.54	0.50
4:4:50:THR:HA	4:4:56:ALA:N	2.19	0.50
4:4:123:ILE:O	4:4:144:ALA:HB1	2.11	0.50
4:4:170:HIS:HB2	4:4:183:LEU:CD1	2.40	0.50
4:4:177:LYS:NZ	4:4:211:LYS:HZ2	2.09	0.50
4:4:230:LYS:HB3	4:4:232:TYR:CZ	2.47	0.50
5:5:28:ARG:HA	5:5:38:ASN:HA	1.92	0.50
5:5:29:LEU:O	5:5:36:VAL:N	2.31	0.50
7:7:179:TYR:HD2	7:7:185:PRO:HG3	1.77	0.50
7:7:273:TRP:CE2	5:j:201:LYS:HG3	2.46	0.50
2:9:48:LYS:HB3	2:9:53:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:62:LYS:NZ	14:G:181:ASP:CG	2.70	0.50
8:A:130:GLN:O	9:B:127:VAL:HA	2.10	0.50
8:A:167:LYS:N	9:B:57:MET:HG3	2.27	0.50
8:A:178:ILE:HG12	8:A:213:ALA:HB3	1.93	0.50
10:C:217:ARG:O	10:C:226:TYR:N	2.36	0.50
12:E:193:LEU:O	12:E:197:GLU:HG3	2.12	0.50
14:G:50:VAL:O	14:G:214:LEU:HD12	2.10	0.50
15:H:282:LYS:HG3	16:I:257:LEU:HD13	1.92	0.50
16:I:106:ILE:HG13	17:J:95:ILE:H	1.73	0.50
16:I:293:ASP:OD1	16:I:294:SER:N	2.44	0.50
17:J:32:LEU:O	17:J:36:SER:N	2.38	0.50
17:J:46:ALA:O	17:J:49:ASN:HB2	2.12	0.50
17:J:165:GLU:HA	17:J:206:THR:HG22	1.92	0.50
17:J:200:ARG:NH2	17:J:212:ARG:HD3	2.27	0.50
18:K:270:PHE:HA	18:K:315:ILE:O	2.11	0.50
21:N:69:TYR:CD1	21:N:72:LEU:HD12	2.45	0.50
21:N:112:GLU:N	21:N:115:LYS:NZ	2.59	0.50
21:N:234:ASP:HB2	21:N:237:LEU:HD12	1.93	0.50
21:N:381:GLU:HA	21:N:384:LYS:NZ	2.26	0.50
21:N:921:ARG:HH11	21:N:922:GLN:NE2	2.10	0.50
22:O:176:SER:OG	22:O:177:GLN:N	2.45	0.50
22:O:369:ARG:CZ	22:O:373:TRP:HE1	2.24	0.50
23:P:133:GLU:OE1	23:P:136:ARG:NE	2.43	0.50
24:Q:169:ASP:OD1	24:Q:170:ASP:N	2.42	0.50
24:Q:288:LYS:HG2	24:Q:291:TYR:N	2.26	0.50
24:Q:420:ASN:OD1	24:Q:421:LYS:N	2.44	0.50
24:Q:424:ASP:CG	25:R:416:LYS:HZ1	2.19	0.50
25:R:211:LYS:HG2	25:R:230:LEU:HD23	1.93	0.50
25:R:369:GLY:HA2	26:S:395:ILE:HB	1.85	0.50
25:R:371:PHE:O	25:R:375:LYS:N	2.44	0.50
27:T:159:LYS:O	27:T:163:LEU:HG	2.11	0.50
28:U:67:PHE:CD1	30:W:97:THR:HA	2.47	0.50
31:X:38:ASN:HB2	31:X:45:PHE:HB2	1.92	0.50
33:Z:345:GLU:HA	33:Z:348:LEU:HB2	1.93	0.50
33:Z:445:PRO:HA	33:Z:448:LYS:HD2	1.92	0.50
33:Z:523:ALA:HA	33:Z:526:ALA:HB3	1.92	0.50
33:Z:922:PRO:HB3	33:Z:959:HIS:ND1	2.26	0.50
9:b:29:LYS:NZ	9:b:168:SER:OG	2.43	0.50
9:b:141:GLU:CD	5:j:115:LYS:HZ3	2.12	0.50
9:b:187:ASP:O	9:b:191:ILE:N	2.24	0.50
10:c:46:LEU:HB2	10:c:214:ALA:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:183:LEU:O	12:e:187:TRP:N	2.29	0.50
12:e:203:ILE:O	12:e:207:VAL:HG22	2.12	0.50
13:f:114:ASP:O	13:f:118:LYS:HG3	2.11	0.50
13:f:147:PHE:O	13:f:148:GLN:NE2	2.45	0.50
4:i:79:ALA:HB2	5:j:129:CYS:HB2	1.93	0.50
4:i:225:ARG:NH1	5:j:151:GLU:O	2.43	0.50
7:l:96:THR:HA	7:l:102:ALA:N	2.23	0.50
7:l:212:TYR:HB3	7:l:216:ASP:OD2	2.11	0.50
1:1:50:THR:O	1:1:53:SER:N	2.43	0.50
2:2:126:PHE:HZ	2:2:169:THR:HB	1.77	0.50
3:3:38:ARG:C	3:3:52:LYS:NZ	2.68	0.50
3:3:38:ARG:HD2	3:3:187:SER:C	2.36	0.50
6:6:30:ASP:OD1	6:6:30:ASP:N	2.44	0.50
1:8:73:ALA:HB1	1:8:126:VAL:HG21	1.94	0.50
8:A:227:VAL:HG12	8:A:229:THR:HG23	1.93	0.50
9:B:78:MET:HB2	9:B:81:ASP:CG	2.36	0.50
9:B:118:MET:O	9:B:122:THR:N	2.36	0.50
9:B:194:LEU:O	9:B:198:GLU:HG2	2.12	0.50
12:E:128:SER:H	13:F:125:GLY:CA	2.15	0.50
13:F:34:VAL:HA	13:F:161:ILE:O	2.11	0.50
13:F:147:PHE:O	13:F:148:GLN:NE2	2.45	0.50
15:H:318:ARG:HD2	15:H:320:ASP:HB2	1.91	0.50
16:I:172:LYS:NZ	16:I:234:LYS:HZ1	2.08	0.50
16:I:331:ILE:HG13	16:I:332:GLU:HG3	1.92	0.50
17:J:115:LEU:HA	17:J:122:LEU:HA	1.93	0.50
18:K:100:LEU:HB2	18:K:109:ILE:HG23	1.94	0.50
19:L:77:ARG:HA	20:M:19:ASP:OD2	2.12	0.50
19:L:365:THR:HG21	19:L:394:CYS:HB2	1.93	0.50
21:N:293:LEU:HB2	21:N:379:LEU:HD12	1.93	0.50
21:N:573:HIS:CE1	21:N:577:SER:HB3	2.45	0.50
21:N:603:PRO:HA	21:N:606:VAL:HG22	1.93	0.50
21:N:703:GLN:C	21:N:707:ASN:HD22	2.18	0.50
21:N:704:GLY:O	21:N:708:ALA:N	2.44	0.50
21:N:774:ASN:C	21:N:866:TYR:H	2.19	0.50
22:O:92:PHE:HD2	22:O:93:ASP:H	1.58	0.50
22:O:324:VAL:HA	22:O:328:VAL:HB	1.93	0.50
22:O:358:ILE:HG12	22:O:359:SER:N	2.25	0.50
23:P:131:PHE:CE1	23:P:168:TYR:HA	2.46	0.50
23:P:163:LEU:HA	23:P:167:THR:CG2	2.41	0.50
23:P:228:SER:HA	23:P:231:LYS:HD2	1.93	0.50
24:Q:52:ASN:O	24:Q:55:GLU:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:195:LYS:HA	24:Q:225:LEU:HD11	1.93	0.50
24:Q:293:SER:HB2	24:Q:324:GLU:CD	2.36	0.50
24:Q:355:GLU:OE1	24:Q:400:TYR:N	2.41	0.50
24:Q:419:LEU:HD23	29:V:265:GLU:OE1	2.11	0.50
25:R:319:CYS:CB	25:R:322:LEU:HD12	2.41	0.50
26:S:155:LEU:O	26:S:159:ASN:N	2.34	0.50
26:S:194:LEU:HA	26:S:195:ALA:HB3	1.94	0.50
26:S:214:MET:O	26:S:218:LEU:N	2.44	0.50
26:S:436:ILE:HG22	26:S:437:ASN:N	2.27	0.50
27:T:265:ASP:HA	27:T:268:ILE:HB	1.94	0.50
28:U:176:ARG:HB2	28:U:176:ARG:CZ	2.41	0.50
29:V:35:LEU:HD23	29:V:38:LEU:HD12	1.93	0.50
33:Z:130:GLY:HA2	33:Z:156:HIS:CD2	2.46	0.50
33:Z:153:TYR:CD1	33:Z:157:LEU:HD12	2.46	0.50
33:Z:297:VAL:HG12	33:Z:310:LEU:HD22	1.94	0.50
33:Z:316:ALA:O	33:Z:868:ASN:ND2	2.35	0.50
33:Z:510:LEU:O	33:Z:514:ALA:N	2.29	0.50
33:Z:762:GLY:HA2	33:Z:765:MET:HB3	1.93	0.50
33:Z:966:GLU:O	33:Z:978:GLU:HA	2.12	0.50
10:c:16:GLU:O	11:d:29:ARG:CZ	2.59	0.50
13:f:81:ALA:O	13:f:85:SER:N	2.26	0.50
14:g:34:GLY:HA3	14:g:79:SER:HB3	1.94	0.50
14:g:91:ARG:NH1	14:g:94:GLU:OE1	2.42	0.50
14:g:122:ALA:HA	14:g:125:LEU:HD12	1.92	0.50
14:g:141:VAL:HG11	14:g:221:LEU:HD13	1.92	0.50
14:g:204:HIS:O	14:g:208:LYS:N	2.45	0.50
3:h:66:GLY:HA2	3:h:113:THR:HG22	1.92	0.50
3:h:69:ALA:HB2	4:i:147:SER:N	2.27	0.50
5:j:15:MET:HA	5:j:136:PHE:HA	1.93	0.50
5:j:149:MET:HE2	5:j:173:ASN:HB2	1.93	0.50
6:k:41:HIS:N	6:k:74:GLU:OE2	2.38	0.50
7:l:84:GLN:HA	7:l:221:TRP:NE1	2.26	0.50
7:l:141:HIS:HA	7:l:144:ARG:CZ	2.41	0.50
1:1:32:LEU:O	1:1:43:ALA:N	2.38	0.50
1:1:129:ILE:HA	1:1:143:SER:HA	1.91	0.50
3:3:157:CYS:O	3:3:161:PHE:N	2.40	0.50
4:4:30:THR:O	4:4:158:SER:OG	2.30	0.50
5:5:12:VAL:O	5:5:139:SER:N	2.43	0.50
5:5:15:MET:HG2	5:5:136:PHE:HB3	1.93	0.50
5:5:69:TYR:HE1	10:C:97:ASN:N	2.10	0.50
5:5:78:GLU:HB3	5:5:80:ARG:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:133:ALA:H	5:5:137:ILE:HD11	1.77	0.50
5:5:189:ILE:O	5:5:196:VAL:N	2.38	0.50
7:7:82:ARG:HG2	7:7:221:TRP:CZ3	2.47	0.50
7:7:103:SER:HA	5:j:177:ARG:HH12	1.75	0.50
2:9:160:LEU:HD23	2:9:172:SER:O	2.12	0.50
2:9:241:PHE:CE2	2:9:243:LYS:HG2	2.46	0.50
8:A:135:ARG:HE	14:G:125:LEU:HA	1.76	0.50
10:C:7:ASP:CG	10:C:9:ARG:H	2.20	0.50
10:C:194:LEU:HB3	10:C:244:ILE:HD12	1.93	0.50
11:D:6:ARG:O	11:D:125:GLY:N	2.41	0.50
11:D:201:GLU:O	11:D:204:GLN:NE2	2.44	0.50
12:E:79:SER:C	12:E:140:VAL:HG23	2.37	0.50
12:E:121:LEU:HA	12:E:123:PHE:CE1	2.47	0.50
12:E:203:ILE:O	12:E:207:VAL:HG22	2.12	0.50
13:F:34:VAL:O	13:F:49:LEU:HB3	2.12	0.50
13:F:213:ILE:O	13:F:225:TYR:N	2.18	0.50
14:G:26:TYR:HA	14:G:29:LYS:CG	2.42	0.50
14:G:141:VAL:HG11	14:G:221:LEU:HD13	1.92	0.50
14:G:238:GLU:O	14:G:242:PHE:N	2.36	0.50
15:H:97:LEU:CD1	15:H:100:ALA:HB2	2.42	0.50
15:H:242:PRO:CG	15:H:350:LYS:NZ	2.75	0.50
15:H:426:ALA:HB1	15:H:429:PHE:HB2	1.93	0.50
17:J:47:GLN:NE2	26:S:479:MET:HG2	2.27	0.50
17:J:342:ASN:HB3	17:J:379:GLN:NE2	2.27	0.50
19:L:92:GLU:HA	19:L:95:ILE:HD12	1.93	0.50
19:L:259:SER:HB3	19:L:303:ARG:HE	1.75	0.50
20:M:220:MET:HG2	20:M:349:PHE:CE1	2.47	0.50
21:N:211:PHE:HA	21:N:225:LEU:CD2	2.42	0.50
21:N:243:LYS:O	21:N:247:GLU:N	2.30	0.50
21:N:727:THR:O	21:N:731:VAL:HG23	2.11	0.50
22:O:15:ARG:HD2	30:W:144:PHE:HE2	1.76	0.50
22:O:233:LEU:O	22:O:236:HIS:N	2.45	0.50
22:O:302:VAL:HA	22:O:305:ILE:HG13	1.93	0.50
22:O:341:ILE:N	23:P:356:TYR:O	2.45	0.50
22:O:378:GLU:O	22:O:382:LYS:N	2.44	0.50
22:O:383:LYS:H	27:T:262:LYS:NZ	2.09	0.50
23:P:103:TYR:O	23:P:106:SER:CB	2.59	0.50
23:P:108:LYS:HA	23:P:112:LEU:HD23	1.92	0.50
23:P:140:THR:O	23:P:144:VAL:HG23	2.11	0.50
23:P:193:TYR:N	23:P:193:TYR:CD1	2.79	0.50
23:P:207:THR:HG21	23:P:217:LYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:241:LEU:CB	23:P:264:ILE:HG12	2.40	0.50
23:P:308:LEU:O	23:P:370:ASP:OD2	2.30	0.50
24:Q:130:ARG:CG	24:Q:132:PHE:H	2.24	0.50
24:Q:219:ASP:O	24:Q:222:SER:HB2	2.12	0.50
24:Q:281:ILE:C	24:Q:287:THR:HG1	2.13	0.50
24:Q:309:ARG:NH2	24:Q:345:SER:HB2	2.26	0.50
24:Q:387:TYR:CD2	24:Q:402:THR:HA	2.47	0.50
25:R:206:ARG:HD2	25:R:209:ARG:HD2	1.93	0.50
25:R:252:TYR:CZ	25:R:319:CYS:HB3	2.47	0.50
27:T:50:ILE:HG13	27:T:51:TYR:N	2.22	0.50
27:T:51:TYR:CA	27:T:55:LEU:HB3	2.39	0.50
28:U:32:ARG:HH22	28:U:100:ARG:HB2	1.75	0.50
28:U:65:VAL:HG23	30:W:89:THR:HG23	1.93	0.50
30:W:161:VAL:HG12	30:W:168:THR:HB	1.93	0.50
33:Z:170:GLU:HG3	33:Z:228:GLU:HB3	1.93	0.50
33:Z:269:TYR:O	33:Z:273:LEU:N	2.42	0.50
33:Z:304:PRO:O	33:Z:308:LYS:HG3	2.11	0.50
33:Z:353:VAL:O	33:Z:357:ILE:HG13	2.12	0.50
33:Z:361:HIS:NE2	33:Z:961:GLU:HG2	2.27	0.50
8:a:91:ARG:HH12	14:g:157:TYR:H	1.60	0.50
8:a:227:VAL:HG12	8:a:229:THR:HG23	1.93	0.50
9:b:119:GLN:O	9:b:122:THR:HB	2.11	0.50
9:b:160:LYS:HB3	9:b:179:TRP:CE2	2.46	0.50
11:d:122:GLN:O	12:e:135:SER:N	2.36	0.50
11:d:160:SER:N	12:e:60:GLU:OE2	2.45	0.50
11:d:169:LYS:HZ2	11:d:172:ARG:HH11	1.58	0.50
13:f:34:VAL:O	13:f:49:LEU:HB3	2.12	0.50
14:g:26:TYR:HA	14:g:29:LYS:CG	2.42	0.50
5:j:78:GLU:HB3	5:j:80:ARG:HG2	1.94	0.50
6:k:30:ASP:N	6:k:30:ASP:OD1	2.44	0.50
6:k:165:VAL:HG21	6:k:195:PHE:CE2	2.47	0.50
7:l:179:TYR:HD2	7:l:185:PRO:HG3	1.77	0.50
1:1:37:GLU:HB2	1:1:193:TYR:CE1	2.46	0.50
2:2:212:ASN:OD1	2:2:215:ARG:NH2	2.45	0.50
3:3:39:THR:OG1	3:3:47:ASN:O	2.26	0.50
4:4:88:ILE:HG13	4:4:112:LEU:CD2	2.41	0.50
5:5:84:PRO:HB2	5:5:120:PHE:CD2	2.46	0.50
7:7:172:MET:O	7:7:192:SER:N	2.37	0.50
7:7:212:TYR:O	7:7:216:ASP:N	2.44	0.50
1:8:46:THR:HG22	1:8:59:GLU:H	1.77	0.50
2:9:137:ARG:NH2	2:9:138:SER:OG	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:161:ARG:HG3	2:9:171:SER:HB2	1.94	0.50
2:9:252:TRP:CE2	3:h:209:PRO:HG2	2.47	0.50
8:A:166:TYR:C	9:B:57:MET:HG3	2.37	0.50
9:B:160:LYS:HB3	9:B:179:TRP:CE2	2.46	0.50
10:C:119:LYS:NZ	10:C:151:SER:OG	2.36	0.50
11:D:120:TYR:HE2	11:D:129:PHE:CZ	2.29	0.50
12:E:95:ALA:HA	12:E:98:THR:HB	1.93	0.50
14:G:48:PHE:N	14:G:217:SER:O	2.35	0.50
15:H:316:GLY:HA3	15:H:360:THR:O	2.11	0.50
15:H:385:ARG:HB2	15:H:408:SER:OG	2.11	0.50
15:H:386:ALA:O	15:H:389:PHE:HB2	2.12	0.50
16:I:394:ALA:HB1	16:I:423:VAL:HG12	1.94	0.50
17:J:279:LEU:HD22	17:J:285:SER:HB2	1.93	0.50
19:L:67:HIS:CE1	20:M:4:LEU:HB2	2.46	0.50
19:L:99:GLN:HG3	28:U:85:ALA:H	1.77	0.50
19:L:132:ARG:NH1	19:L:156:MET:SD	2.84	0.50
20:M:256:ILE:HA	20:M:300:GLU:OE2	2.12	0.50
20:M:269:LEU:HA	20:M:272:GLU:CD	2.36	0.50
21:N:352:ASN:CB	21:N:355:TRP:HB2	2.42	0.50
21:N:537:THR:HA	21:N:540:LEU:HD12	1.93	0.50
21:N:559:TYR:C	21:N:594:VAL:HG22	2.36	0.50
21:N:769:PRO:HG3	21:N:890:PHE:CD2	2.47	0.50
22:O:132:GLU:HA	22:O:135:ARG:NH2	2.27	0.50
22:O:168:THR:HA	22:O:171:PHE:HB3	1.93	0.50
22:O:178:TYR:HE2	22:O:182:LYS:HZ2	1.52	0.50
23:P:75:LEU:HA	23:P:78:GLN:OE1	2.12	0.50
23:P:116:ILE:HA	23:P:119:ILE:CG1	2.41	0.50
23:P:435:LYS:O	23:P:439:MET:HG3	2.11	0.50
24:Q:234:THR:OG1	24:Q:235:ALA:N	2.45	0.50
25:R:113:LEU:HD22	25:R:137:LEU:HA	1.94	0.50
25:R:272:ASP:HA	25:R:276:LEU:HD12	1.92	0.50
25:R:383:ARG:H	26:S:402:ILE:HD12	1.76	0.50
26:S:158:PHE:O	26:S:162:VAL:HG23	2.12	0.50
26:S:234:ILE:O	26:S:238:LEU:HG	2.11	0.50
27:T:80:ASN:HA	27:T:83:ASN:ND2	2.26	0.50
27:T:82:PHE:CZ	27:T:106:ILE:HB	2.46	0.50
29:V:67:ASP:CG	29:V:68:VAL:H	2.19	0.50
30:W:125:LEU:HA	30:W:128:LEU:HD12	1.94	0.50
31:X:66:LEU:HD21	31:X:97:TYR:CD1	2.47	0.50
33:Z:333:GLY:HA3	33:Z:340:LEU:O	2.11	0.50
33:Z:453:LEU:HG	33:Z:457:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:475:GLN:HG3	33:Z:493:LEU:HD21	1.92	0.50
10:c:103:ASN:HD22	6:k:82:SER:CB	2.22	0.50
11:d:15:GLY:HA3	12:e:29:GLU:HB2	1.94	0.50
3:h:65:SER:O	3:h:114:ALA:HA	2.12	0.50
6:k:39:SER:HB2	6:k:74:GLU:HG3	1.94	0.50
6:k:41:HIS:HB2	6:k:74:GLU:OE2	2.12	0.50
7:l:212:TYR:O	7:l:216:ASP:N	2.44	0.50
1:1:47:ARG:HD2	1:1:216:GLN:O	2.10	0.50
1:1:89:ASN:O	1:1:92:LYS:HB3	2.11	0.50
1:1:179:TYR:O	4:4:238:THR:HA	2.12	0.50
2:2:186:PRO:O	2:2:190:LYS:N	2.29	0.50
3:3:81:HIS:O	3:3:85:TYR:N	2.23	0.50
3:3:130:TYR:CE1	3:3:140:LYS:HB2	2.47	0.50
6:6:19:LYS:HB3	6:6:31:SER:C	2.37	0.50
6:6:41:HIS:HB2	6:6:74:GLU:OE2	2.12	0.50
6:6:73:TYR:HB2	10:C:143:ARG:NH2	2.27	0.50
7:7:130:TRP:CE3	7:7:161:LEU:HD21	2.47	0.50
7:7:209:THR:HA	7:7:212:TYR:HD2	1.76	0.50
1:8:221:LEU:HB3	1:8:236:TYR:HB2	1.93	0.50
2:9:95:HIS:CD2	2:9:99:LEU:HD11	2.46	0.50
2:9:111:ASN:OD1	2:9:114:ALA:N	2.45	0.50
2:9:221:ASP:HB3	2:9:224:SER:CB	2.40	0.50
8:A:155:TYR:CD1	8:A:165:GLY:HA2	2.47	0.50
8:A:244:ARG:O	8:A:248:ILE:CG2	2.58	0.50
10:C:12:ILE:HA	11:D:19:GLN:NE2	2.26	0.50
10:C:38:ILE:HA	10:C:162:ALA:HA	1.93	0.50
14:G:26:TYR:O	14:G:29:LYS:HB2	2.11	0.50
15:H:406:LEU:HD23	15:H:409:ARG:NH1	2.26	0.50
17:J:77:LYS:HG2	17:J:85:LEU:HD22	1.92	0.50
17:J:99:ALA:H	17:J:102:ILE:HD11	1.77	0.50
17:J:147:TYR:CD1	17:J:157:ILE:HG21	2.47	0.50
17:J:336:ASN:ND2	25:R:204:TRP:HB2	2.26	0.50
18:K:342:SER:N	18:K:343:LEU:HB3	2.26	0.50
19:L:224:PRO:HA	19:L:228:LYS:HD3	1.94	0.50
20:M:364:HIS:HE1	20:M:388:GLY:O	1.94	0.50
21:N:95:SER:HG	21:N:98:VAL:H	1.55	0.50
21:N:197:VAL:HG21	21:N:202:PHE:CD2	2.47	0.50
21:N:324:LYS:HD3	21:N:328:PHE:HB2	1.93	0.50
21:N:585:ARG:NH2	21:N:616:HIS:HA	2.24	0.50
21:N:766:GLN:HB3	21:N:768:ILE:HD13	1.94	0.50
21:N:897:LYS:NZ	21:N:899:ASN:ND2	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:46:THR:HG21	23:P:88:GLN:HA	1.93	0.50
23:P:249:ALA:HB2	23:P:257:TRP:CH2	2.46	0.50
23:P:331:GLY:HA2	23:P:336:HIS:HB2	1.92	0.50
24:Q:1:MET:N	24:Q:10:GLU:OE2	2.36	0.50
24:Q:109:ASP:OD2	24:Q:114:GLN:NE2	2.45	0.50
24:Q:322:GLU:O	24:Q:326:MET:N	2.45	0.50
24:Q:392:GLN:CB	25:R:348:LEU:HA	2.42	0.50
24:Q:420:ASN:OD1	24:Q:420:ASN:N	2.44	0.50
24:Q:423:VAL:HG13	25:R:417:TYR:CZ	2.44	0.50
25:R:141:TYR:O	25:R:145:GLY:N	2.43	0.50
25:R:276:LEU:O	25:R:280:ILE:HG23	2.12	0.50
25:R:303:SER:OG	25:R:304:TYR:N	2.44	0.50
26:S:42:SER:CB	26:S:147:TRP:CZ3	2.95	0.50
26:S:48:LEU:HA	26:S:51:ARG:CB	2.42	0.50
26:S:212:SER:O	26:S:215:MET:HB3	2.11	0.50
26:S:333:PHE:HA	26:S:337:ASN:ND2	2.26	0.50
26:S:464:ARG:HD2	26:S:464:ARG:N	2.26	0.50
28:U:110:PHE:O	28:U:113:TYR:N	2.43	0.50
30:W:25:ARG:HH22	30:W:144:PHE:H	1.57	0.50
30:W:113:PHE:HE1	30:W:181:LEU:CD2	2.24	0.50
30:W:125:LEU:HD11	30:W:157:PHE:HB2	1.93	0.50
33:Z:120:SER:HB2	33:Z:153:TYR:CE1	2.46	0.50
33:Z:344:LYS:O	33:Z:347:ASN:N	2.44	0.50
33:Z:529:ALA:O	33:Z:533:VAL:HG23	2.12	0.50
33:Z:916:LEU:CA	33:Z:925:VAL:HG11	2.42	0.50
8:a:156:LYS:HZ2	8:a:175:GLN:HE22	1.59	0.50
9:b:78:MET:HB2	9:b:81:ASP:CG	2.36	0.50
10:c:194:LEU:HB3	10:c:244:ILE:HD12	1.93	0.50
11:d:56:ASP:CG	11:d:58:ARG:HH21	2.14	0.50
11:d:66:LYS:HA	11:d:72:VAL:HA	1.94	0.50
14:g:151:LEU:HA	14:g:157:TYR:HB3	1.94	0.50
3:h:181:ALA:O	3:h:185:ASP:N	2.42	0.50
5:j:7:ILE:HA	5:j:32:GLN:OE1	2.11	0.50
6:k:21:VAL:HB	6:k:29:LYS:H	1.77	0.50
6:k:101:ASN:HB3	6:k:133:HIS:ND1	2.27	0.50
1:1:180:GLU:N	1:1:187:VAL:O	2.41	0.50
1:1:218:GLY:C	1:1:220:GLY:H	2.19	0.50
2:2:161:ARG:HG3	2:2:171:SER:HB2	1.94	0.50
3:3:65:SER:O	3:3:114:ALA:HA	2.12	0.50
3:3:175:LYS:HB2	3:3:194:MET:HE1	1.93	0.50
4:4:88:ILE:HA	4:4:91:ASN:HD22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:132:VAL:HG22	4:4:207:MET:HB3	1.92	0.50
4:4:230:LYS:HD3	4:4:232:TYR:CE1	2.47	0.50
6:6:101:ASN:OD1	6:6:121:TYR:N	2.42	0.50
7:7:212:TYR:HB3	7:7:216:ASP:OD2	2.11	0.50
7:7:243:ASP:OD1	5:j:33:SER:HB2	2.12	0.50
1:8:47:ARG:HD2	1:8:216:GLN:O	2.10	0.50
2:9:212:ASN:OD1	2:9:215:ARG:NH2	2.45	0.50
9:B:98:LYS:O	9:B:101:TYR:N	2.45	0.50
9:B:136:ILE:HB	9:B:148:TYR:HB2	1.93	0.50
10:C:109:GLU:HA	10:C:112:VAL:HB	1.93	0.50
11:D:74:SER:O	11:D:134:LEU:N	2.30	0.50
12:E:177:GLU:OE1	12:E:177:GLU:N	2.27	0.50
13:F:92:CYS:SG	13:F:103:LEU:HB3	2.52	0.50
13:F:104:ALA:O	13:F:108:ALA:N	2.31	0.50
16:I:402:LEU:CD2	16:I:405:ARG:HE	2.25	0.50
18:K:171:TYR:HB3	18:K:225:ALA:HB1	1.94	0.50
18:K:363:ALA:N	18:K:402:ILE:O	2.36	0.50
18:K:389:GLU:O	18:K:393:ARG:HG3	2.11	0.50
18:K:391:GLY:HA2	18:K:402:ILE:CD1	2.39	0.50
19:L:136:ASP:HB3	19:L:138:SER:OG	2.12	0.50
20:M:83:VAL:CG2	20:M:118:VAL:HB	2.41	0.50
20:M:174:GLU:OE2	20:M:175:LYS:HE3	2.11	0.50
20:M:180:TYR:OH	20:M:235:CYS:SG	2.55	0.50
20:M:416:VAL:O	20:M:419:ILE:HB	2.12	0.50
21:N:50:TYR:C	21:N:58:ARG:HD2	2.37	0.50
21:N:360:GLN:HB2	29:V:165:ILE:HA	1.92	0.50
21:N:500:ASP:HA	21:N:503:THR:HB	1.93	0.50
21:N:899:ASN:O	21:N:902:VAL:HG22	2.11	0.50
22:O:294:MET:CG	22:O:356:ARG:HE	2.25	0.50
23:P:221:TYR:O	23:P:224:LEU:HB3	2.11	0.50
23:P:245:TYR:CE2	23:P:257:TRP:CZ2	3.00	0.50
23:P:323:ASN:O	23:P:337:HIS:CE1	2.64	0.50
23:P:343:LYS:HA	23:P:346:ILE:HB	1.94	0.50
24:Q:20:TYR:HA	24:Q:23:ALA:HB3	1.94	0.50
24:Q:104:PHE:HB3	24:Q:114:GLN:NE2	2.22	0.50
24:Q:134:LYS:O	24:Q:137:LEU:HB2	2.12	0.50
24:Q:380:MET:HG2	24:Q:386:PHE:HB3	1.94	0.50
25:R:350:LEU:HB3	25:R:386:GLY:C	2.37	0.50
26:S:281:ALA:O	26:S:284:LEU:HD23	2.12	0.50
26:S:344:PRO:O	26:S:348:LEU:HG	2.12	0.50
27:T:79:GLU:HA	27:T:82:PHE:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:133:ILE:HA	27:T:136:LEU:HB3	1.94	0.50
29:V:56:GLU:HG2	29:V:64:ASN:HB2	1.94	0.50
29:V:278:LYS:HZ1	29:V:279:HIS:CE1	2.30	0.50
30:W:29:GLN:HG2	30:W:113:PHE:CD1	2.46	0.50
30:W:85:LEU:HD13	30:W:118:ILE:HA	1.93	0.50
30:W:178:PRO:HG2	30:W:179:ARG:HH12	1.76	0.50
8:a:49:ASP:O	8:a:152:PRO:HG3	2.11	0.50
9:b:200:VAL:HG11	9:b:204:PHE:HB2	1.94	0.50
13:f:211:LEU:HD23	13:f:230:VAL:HB	1.94	0.50
14:g:49:ALA:HB2	14:g:216:ILE:HG23	1.93	0.50
3:h:108:ASN:HB2	3:h:112:LEU:HD11	1.93	0.50
4:i:230:LYS:NZ	4:i:232:TYR:CD1	2.75	0.50
6:k:22:THR:OG1	6:k:27:VAL:HA	2.11	0.50
6:k:88:LEU:O	6:k:92:ILE:N	2.25	0.50
6:k:91:SER:O	6:k:94:SER:N	2.39	0.50
7:l:82:ARG:HG2	7:l:221:TRP:CZ3	2.47	0.50
2:2:78:VAL:O	2:2:82:THR:HB	2.12	0.50
2:2:134:TYR:O	2:2:137:ARG:HB3	2.11	0.50
2:2:160:LEU:HD23	2:2:172:SER:O	2.12	0.50
2:2:161:ARG:HH11	2:2:171:SER:CB	2.25	0.50
2:2:220:ARG:HH12	3:3:47:ASN:HA	1.77	0.50
2:2:220:ARG:NE	4:4:164:MET:SD	2.85	0.50
3:3:55:ARG:HG3	3:3:57:HIS:O	2.12	0.50
5:5:16:THR:OG1	5:5:134:LYS:O	2.22	0.50
5:5:107:PRO:HD2	5:5:124:PHE:HB2	1.94	0.50
6:6:25:ILE:O	6:k:173:PRO:HD3	2.11	0.50
6:6:165:VAL:HG21	6:6:195:PHE:CE2	2.47	0.50
2:9:121:GLU:CD	2:9:122:PRO:HD2	2.36	0.50
8:A:219:SER:C	8:A:245:LEU:HD21	2.37	0.50
9:B:15:SER:HA	10:C:27:GLU:HG2	1.94	0.50
10:C:18:ARG:CZ	11:D:29:ARG:HE	2.24	0.50
10:C:134:SER:OG	10:C:152:ASN:HA	2.12	0.50
11:D:79:ASN:O	11:D:83:ARG:HG3	2.12	0.50
12:E:71:ASP:OD2	12:E:73:HIS:CE1	2.64	0.50
14:G:151:LEU:HA	14:G:157:TYR:HB3	1.94	0.50
15:H:99:VAL:O	15:H:173:ARG:HD3	2.12	0.50
15:H:175:GLY:HA3	15:H:189:PRO:CB	2.40	0.50
15:H:399:GLU:CD	15:H:402:ILE:HG23	2.37	0.50
18:K:138:ALA:O	18:K:146:LEU:HD12	2.12	0.50
18:K:179:MET:HE1	24:Q:206:ASN:HD21	1.76	0.50
18:K:262:ARG:NH1	18:K:306:PHE:CD1	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:82:ARG:HB3	19:L:86:LYS:HZ2	1.76	0.50
19:L:266:MET:O	19:L:270:ALA:HB3	2.11	0.50
19:L:274:GLU:HA	19:L:275:PRO:C	2.36	0.50
20:M:149:ASN:O	20:M:153:TYR:N	2.45	0.50
20:M:173:ASP:HB3	20:M:243:PHE:CD2	2.46	0.50
21:N:112:GLU:N	21:N:115:LYS:HZ1	2.10	0.50
21:N:161:TYR:HA	21:N:202:PHE:CE1	2.46	0.50
21:N:345:ASP:H	21:N:374:ILE:CG2	2.24	0.50
21:N:498:ILE:CD1	21:N:528:ARG:HH12	2.24	0.50
21:N:602:VAL:HA	21:N:605:ILE:HD12	1.94	0.50
21:N:641:LEU:HD12	21:N:660:LEU:HD21	1.93	0.50
21:N:880:ARG:HE	21:N:898:GLY:C	2.17	0.50
22:O:11:LEU:CD2	22:O:45:LEU:HD12	2.41	0.50
22:O:165:LEU:HD13	22:O:198:THR:O	2.12	0.50
22:O:243:VAL:HG12	22:O:248:TYR:CB	2.38	0.50
22:O:383:LYS:HB2	27:T:262:LYS:HE2	1.94	0.50
23:P:96:MET:O	23:P:100:VAL:HG23	2.12	0.50
23:P:395:ARG:NH1	24:Q:361:HIS:CB	2.74	0.50
24:Q:358:GLU:HG2	24:Q:360:SER:N	2.25	0.50
25:R:70:TYR:CZ	25:R:74:ASN:HB2	2.47	0.50
25:R:79:LEU:HB2	25:R:93:LYS:HE3	1.94	0.50
25:R:167:LYS:HD2	25:R:197:MET:HB2	1.93	0.50
25:R:359:VAL:CA	32:Y:82:ASP:HB3	2.40	0.50
26:S:241:PHE:CG	26:S:247:VAL:HA	2.46	0.50
27:T:51:TYR:HA	27:T:55:LEU:HD22	1.93	0.50
27:T:88:TYR:O	27:T:94:HIS:CE1	2.65	0.50
27:T:155:GLY:HA2	27:T:157:TYR:OH	2.11	0.50
27:T:159:LYS:C	27:T:163:LEU:HG	2.37	0.50
27:T:221:ALA:CB	27:T:228:ILE:HD11	2.40	0.50
29:V:241:THR:HG21	29:V:297:THR:CG2	2.36	0.50
31:X:18:ASN:HB2	31:X:98:PHE:CD2	2.46	0.50
33:Z:347:ASN:O	33:Z:353:VAL:N	2.35	0.50
33:Z:757:SER:HB3	33:Z:761:PHE:CZ	2.47	0.50
33:Z:761:PHE:O	33:Z:764:LEU:HB2	2.12	0.50
8:a:104:PHE:O	8:a:108:TYR:N	2.35	0.50
8:a:148:GLU:OE2	4:i:104:ARG:NH2	2.44	0.50
11:d:43:VAL:HG13	11:d:214:VAL:HG22	1.93	0.50
12:e:121:LEU:HA	12:e:123:PHE:CE1	2.47	0.50
12:e:123:PHE:CE1	12:e:137:PRO:HG3	2.46	0.50
12:e:123:PHE:CA	12:e:134:MET:HB3	2.41	0.50
12:e:221:CYS:O	12:e:229:LYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:14:SER:N	13:f:18:ARG:H	2.07	0.50
3:h:55:ARG:HG3	3:h:57:HIS:O	2.12	0.50
4:i:230:LYS:HB3	4:i:232:TYR:CZ	2.47	0.50
5:j:107:PRO:HG2	5:j:124:PHE:HB2	1.92	0.50
5:j:133:ALA:H	5:j:137:ILE:HD11	1.76	0.50
6:k:1:MET:SD	6:k:1:MET:C	2.94	0.50
6:k:41:HIS:HD2	6:k:107:TYR:HB3	1.77	0.50
1:1:166:MET:HB2	7:l:100:TRP:HH2	1.75	0.49
2:2:111:ASN:OD1	2:2:114:ALA:N	2.45	0.49
4:4:65:ARG:NH1	9:B:224:TYR:OH	2.45	0.49
7:7:76:THR:O	7:7:206:SER:OG	2.30	0.49
7:7:110:ILE:N	7:7:118:GLY:O	2.39	0.49
7:7:111:GLU:HA	7:7:117:LEU:HD23	1.92	0.49
1:8:89:ASN:O	1:8:92:LYS:HB3	2.11	0.49
2:9:178:GLY:O	2:9:182:HIS:ND1	2.40	0.49
2:9:204:GLN:CD	2:9:204:GLN:N	2.70	0.49
8:A:33:LYS:HG3	14:G:17:PRO:O	2.12	0.49
8:A:125:SER:O	8:A:129:THR:N	2.27	0.49
8:A:201:LYS:HD3	8:A:204:GLU:OE1	2.11	0.49
9:B:135:LEU:HD21	9:B:164:ILE:HG23	1.93	0.49
9:B:200:VAL:HG11	9:B:204:PHE:HB2	1.94	0.49
10:C:46:LEU:HB2	10:C:214:ALA:HB3	1.93	0.49
12:E:170:LYS:HD2	12:E:180:GLN:OE1	2.11	0.49
14:G:37:SER:O	14:G:165:THR:N	2.35	0.49
14:G:54:ILE:HA	14:G:59:LEU:HD22	1.94	0.49
14:G:218:TRP:HZ3	14:G:223:GLU:HB2	1.77	0.49
15:H:63:ILE:O	15:H:66:LYS:HB3	2.10	0.49
15:H:97:LEU:HD12	15:H:189:PRO:CB	2.42	0.49
15:H:258:LEU:HD23	15:H:261:ARG:HD2	1.93	0.49
15:H:298:ALA:HB1	15:H:349:ILE:HD13	1.94	0.49
15:H:439:THR:N	15:H:442:ASP:OD2	2.30	0.49
16:I:252:LEU:HD12	16:I:253:ILE:N	2.26	0.49
16:I:337:ALA:O	16:I:340:ARG:HB2	2.12	0.49
17:J:78:ILE:HD13	17:J:104:VAL:O	2.12	0.49
17:J:299:ILE:HG13	17:J:300:LEU:HG	1.93	0.49
18:K:61:LEU:HA	18:K:64:GLN:HB3	1.93	0.49
19:L:149:ASP:HB3	19:L:153:LEU:N	2.27	0.49
20:M:120:LYS:HA	20:M:125:GLN:O	2.12	0.49
21:N:124:TYR:CG	21:N:162:ARG:HG2	2.47	0.49
21:N:246:LYS:NZ	21:N:280:GLN:HB3	2.27	0.49
21:N:636:SER:OG	21:N:637:ALA:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:107:GLN:HE21	22:O:112:LYS:HG3	1.76	0.49
22:O:132:GLU:O	22:O:136:THR:HG23	2.12	0.49
22:O:245:ASP:HA	22:O:249:ASP:OD1	2.12	0.49
22:O:262:ASP:OD2	22:O:265:LYS:NZ	2.40	0.49
22:O:365:LYS:HA	22:O:368:ASP:OD2	2.12	0.49
23:P:267:PHE:CD1	23:P:270:LEU:HD12	2.47	0.49
23:P:267:PHE:HA	23:P:270:LEU:HB2	1.94	0.49
23:P:305:THR:O	23:P:307:GLU:HG3	2.12	0.49
25:R:67:CYS:HG	25:R:94:PHE:HE1	1.54	0.49
25:R:373:PRO:HA	25:R:375:LYS:NZ	2.27	0.49
26:S:357:LEU:O	26:S:360:PHE:HB3	2.11	0.49
28:U:57:GLU:O	28:U:67:PHE:N	2.35	0.49
28:U:191:THR:O	29:V:232:GLU:OE2	2.30	0.49
28:U:283:ARG:CB	29:V:288:LEU:HD23	2.35	0.49
29:V:48:GLU:HB2	29:V:78:VAL:HG11	1.93	0.49
29:V:91:MET:O	29:V:94:MET:N	2.45	0.49
29:V:265:GLU:O	29:V:268:THR:OG1	2.20	0.49
31:X:22:ARG:HH22	31:X:78:ILE:HD12	1.75	0.49
33:Z:208:VAL:CG1	33:Z:232:LYS:HA	2.42	0.49
33:Z:328:ASP:HA	33:Z:332:ASN:H	1.77	0.49
33:Z:369:PHE:HD2	33:Z:390:LEU:HD21	1.73	0.49
11:d:171:VAL:CG2	11:d:198:SER:HB2	2.36	0.49
12:e:193:LEU:O	12:e:197:GLU:HG3	2.12	0.49
13:f:20:PHE:HA	13:f:23:GLU:OE1	2.12	0.49
14:g:8:TYR:HB3	14:g:16:SER:HB3	1.94	0.49
14:g:224:THR:HG22	14:g:229:LYS:HD3	1.94	0.49
3:h:78:VAL:HG11	3:h:101:PHE:CE2	2.46	0.49
4:i:51:GLN:N	4:i:54:ILE:O	2.45	0.49
5:j:11:ILE:CG2	5:j:142:ALA:H	2.25	0.49
6:k:79:ALA:O	6:k:83:PHE:N	2.30	0.49
6:k:158:LEU:O	6:k:161:LEU:HB2	2.12	0.49
7:l:121:ALA:HB3	7:l:173:GLY:O	2.12	0.49
1:1:134:ASP:OD2	1:1:136:ASP:HB2	2.12	0.49
1:1:164:LEU:HD21	1:1:213:ARG:HB2	1.94	0.49
1:1:197:GLU:HA	1:1:200:ILE:HB	1.95	0.49
2:2:137:ARG:NH2	2:2:138:SER:OG	2.45	0.49
3:3:149:GLY:HA2	3:3:152:PHE:CD2	2.47	0.49
4:4:30:THR:N	4:4:197:GLY:O	2.45	0.49
4:4:115:HIS:CE1	4:4:119:TYR:HE2	2.29	0.49
5:5:178:ASP:OD1	5:5:179:ALA:N	2.45	0.49
6:6:43:LEU:HB2	6:6:189:ILE:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:117:TYR:HA	6:6:127:GLU:HA	1.94	0.49
7:7:151:VAL:N	7:7:183:GLU:OE2	2.44	0.49
7:7:163:TYR:CE1	7:7:166:LYS:HD3	2.48	0.49
1:8:198:GLU:HA	1:8:201:LYS:HD2	1.94	0.49
1:8:214:HIS:CD2	1:8:217:VAL:HG23	2.36	0.49
2:9:161:ARG:HH11	2:9:171:SER:CB	2.25	0.49
9:B:214:ILE:HA	9:B:235:PHE:HA	1.94	0.49
10:C:42:ASP:OD1	10:C:186:VAL:HG23	2.11	0.49
10:C:50:ARG:NH2	10:C:62:SER:O	2.38	0.49
11:D:37:LYS:HG2	11:D:160:SER:O	2.12	0.49
12:E:73:HIS:CD2	12:E:106:ASP:HB3	2.46	0.49
13:F:15:PRO:HA	14:G:26:TYR:CD1	2.47	0.49
13:F:19:LEU:O	13:F:22:VAL:HB	2.13	0.49
13:F:20:PHE:HA	13:F:23:GLU:OE1	2.12	0.49
14:G:170:GLN:CG	14:G:173:LYS:HZ2	2.23	0.49
15:H:257:THR:HG21	15:H:273:ARG:HD2	1.94	0.49
16:I:100:ARG:NE	16:I:157:VAL:HG11	2.26	0.49
16:I:105:SER:OG	16:I:154:MET:SD	2.71	0.49
16:I:168:VAL:HA	16:I:266:GLN:HB3	1.94	0.49
17:J:324:ARG:HA	17:J:327:ILE:HB	1.93	0.49
17:J:364:GLU:HA	17:J:367:MET:HB3	1.94	0.49
20:M:178:GLU:H	20:M:237:ALA:CB	2.25	0.49
20:M:193:LEU:HD11	20:M:231:LEU:HB3	1.93	0.49
20:M:355:ASP:HA	20:M:358:ALA:HB3	1.93	0.49
21:N:7:ALA:C	27:T:83:ASN:HB3	2.36	0.49
21:N:114:SER:HA	21:N:161:TYR:HE2	1.78	0.49
21:N:117:TYR:HA	21:N:120:ASP:O	2.11	0.49
21:N:192:LEU:O	21:N:196:THR:HG23	2.12	0.49
21:N:303:LEU:O	21:N:307:LYS:N	2.33	0.49
21:N:534:ASP:O	21:N:538:LYS:N	2.31	0.49
21:N:585:ARG:NH1	21:N:651:PHE:HE2	2.09	0.49
22:O:207:LEU:HD22	22:O:211:GLN:NE2	2.25	0.49
22:O:324:VAL:O	22:O:328:VAL:HB	2.12	0.49
22:O:336:LEU:O	22:O:353:VAL:HG11	2.13	0.49
23:P:213:TYR:HD2	23:P:216:LEU:HD12	1.76	0.49
23:P:220:TYR:CE2	23:P:224:LEU:HB2	2.47	0.49
23:P:263:HIS:CE1	23:P:327:LEU:HG	2.47	0.49
23:P:292:LYS:CA	23:P:293:LEU:HB3	2.42	0.49
23:P:360:ILE:N	23:P:400:VAL:O	2.39	0.49
24:Q:27:TYR:CD1	24:Q:61:LEU:HB2	2.47	0.49
24:Q:74:LEU:HB3	24:Q:104:PHE:HZ	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:355:GLU:HB2	24:Q:399:VAL:HG12	1.95	0.49
25:R:28:GLU:HG3	25:R:32:LEU:HG	1.93	0.49
25:R:113:LEU:HA	25:R:116:LYS:HB3	1.94	0.49
27:T:139:ASP:OD2	27:T:142:LEU:HG	2.12	0.49
27:T:169:GLN:HG3	27:T:174:PHE:CB	2.32	0.49
27:T:258:ASN:O	27:T:261:GLU:HB2	2.12	0.49
28:U:71:ASN:O	28:U:74:GLU:HB3	2.12	0.49
28:U:170:GLY:HA2	28:U:173:HIS:ND1	2.27	0.49
29:V:155:ALA:O	29:V:199:LEU:N	2.39	0.49
29:V:287:THR:O	29:V:291:ASN:HB2	2.12	0.49
30:W:65:PHE:CZ	30:W:97:THR:HG22	2.47	0.49
30:W:111:VAL:HA	30:W:140:ASP:O	2.12	0.49
30:W:163:ASN:HB3	30:W:164:PRO:CD	2.42	0.49
33:Z:389:PHE:HE2	33:Z:850:LEU:HA	1.77	0.49
8:a:166:TYR:HB3	8:a:168:ALA:O	2.12	0.49
9:b:180:ASN:H	9:b:183:LEU:HG	1.76	0.49
9:b:244:ASN:HA	9:b:247:LEU:HD12	1.94	0.49
11:d:93:ALA:O	11:d:97:ARG:N	2.30	0.49
11:d:201:GLU:O	11:d:204:GLN:NE2	2.44	0.49
13:f:50:LYS:NZ	13:f:226:ASP:HB3	2.25	0.49
13:f:136:GLY:HA2	13:f:216:VAL:HG11	1.94	0.49
5:j:30:GLY:HA2	5:j:36:VAL:HG23	1.93	0.49
1:1:27:ASN:O	1:1:49:ILE:HG13	2.13	0.49
1:1:89:ASN:OD1	1:1:93:TRP:NE1	2.45	0.49
1:1:220:GLY:HA2	1:1:238:LEU:N	2.27	0.49
2:2:48:LYS:HB3	2:2:53:VAL:HG12	1.93	0.49
2:2:49:TYR:HD1	2:2:50:ASP:OD1	1.96	0.49
2:2:152:VAL:HG11	2:2:235:LYS:HA	1.94	0.49
3:3:152:PHE:HB3	3:h:154:TYR:HB2	1.94	0.49
4:4:191:GLY:O	4:4:195:ASP:HB3	2.12	0.49
5:5:7:ILE:HA	5:5:32:GLN:OE1	2.11	0.49
2:9:133:MET:HE3	2:9:165:LEU:HA	1.95	0.49
9:B:80:PRO:O	9:B:83:ARG:N	2.44	0.49
9:B:119:GLN:O	9:B:122:THR:HB	2.11	0.49
10:C:94:HIS:HA	10:C:97:ASN:ND2	2.27	0.49
15:H:55:ASP:OD2	16:I:95:GLN:HB3	2.13	0.49
15:H:96:PRO:HD2	16:I:119:ILE:CG2	2.41	0.49
16:I:172:LYS:HZ3	16:I:234:LYS:HE3	1.77	0.49
16:I:274:ASN:HA	33:Z:791:LYS:HD3	1.94	0.49
17:J:77:LYS:HE3	17:J:85:LEU:HD13	1.95	0.49
18:K:175:GLY:HA3	18:K:351:LEU:C	2.36	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:370:LYS:HD3	19:L:374:PHE:CZ	2.48	0.49
20:M:77:TYR:HD2	20:M:148:VAL:O	1.95	0.49
20:M:308:LEU:O	20:M:312:LEU:N	2.39	0.49
21:N:123:PHE:HA	21:N:126:LYS:HE2	1.93	0.49
21:N:578:ASP:OD2	21:N:583:VAL:HG11	2.13	0.49
21:N:893:VAL:HG21	21:N:906:ARG:NH1	2.27	0.49
22:O:100:ASP:HA	22:O:103:LYS:CE	2.42	0.49
22:O:195:TYR:HA	22:O:198:THR:HB	1.92	0.49
22:O:228:TYR:HA	22:O:229:ASN:HB2	1.94	0.49
22:O:380:LEU:CD1	27:T:258:ASN:HD22	2.22	0.49
23:P:143:LEU:HG	23:P:147:LYS:HG3	1.94	0.49
23:P:168:TYR:HB3	23:P:170:SER:CA	2.42	0.49
23:P:274:GLY:O	23:P:277:GLN:HB3	2.12	0.49
23:P:277:GLN:HA	23:P:280:LEU:HB2	1.93	0.49
23:P:373:GLU:HG2	23:P:377:GLU:CD	2.37	0.49
23:P:410:GLN:C	23:P:412:LEU:N	2.70	0.49
24:Q:219:ASP:HB3	24:Q:238:TYR:C	2.37	0.49
25:R:58:GLU:OE2	25:R:109:LYS:HD2	2.12	0.49
25:R:175:ALA:CB	25:R:243:LEU:HD13	2.43	0.49
26:S:9:ASP:C	26:S:12:SER:HG	2.14	0.49
26:S:235:ASN:HB3	26:S:275:TYR:CE2	2.47	0.49
26:S:479:MET:HG3	26:S:483:GLU:CD	2.36	0.49
27:T:62:LEU:HD22	27:T:84:GLN:HB2	1.94	0.49
27:T:129:LEU:O	27:T:132:HIS:CD2	2.64	0.49
27:T:149:ASP:OD1	27:T:153:MET:HE3	2.12	0.49
28:U:8:VAL:HB	28:U:159:CYS:SG	2.52	0.49
28:U:70:HIS:ND1	28:U:73:ILE:HD12	2.27	0.49
30:W:56:GLY:H	30:W:83:GLY:HA3	1.77	0.49
30:W:179:ARG:HB3	30:W:184:ASN:ND2	2.27	0.49
33:Z:121:ILE:HA	33:Z:124:MET:HB3	1.94	0.49
33:Z:128:GLU:HB3	33:Z:132:HIS:CD2	2.47	0.49
9:b:184:GLU:OE2	9:b:186:GLU:N	2.45	0.49
10:c:42:ASP:OD1	10:c:186:VAL:HG23	2.11	0.49
12:e:170:LYS:HD2	12:e:180:GLN:OE1	2.11	0.49
14:g:185:GLU:HG3	14:g:186:GLY:H	1.76	0.49
7:l:87:ILE:HG13	7:l:185:PRO:HB3	1.95	0.49
2:2:121:GLU:CD	2:2:122:PRO:HD2	2.37	0.49
4:4:115:HIS:CE1	4:4:119:TYR:CE2	3.01	0.49
4:4:207:MET:HG2	4:4:213:ALA:CB	2.43	0.49
5:5:63:LEU:HD12	5:5:105:VAL:HG11	1.93	0.49
5:5:118:LYS:HZ2	5:5:120:PHE:HB2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:96:ARG:NH2	7:7:166:LYS:HB3	2.28	0.49
6:6:110:LYS:HE3	10:C:142:ASP:OD2	2.12	0.49
1:8:220:GLY:HA2	1:8:238:LEU:N	2.27	0.49
8:A:244:ARG:O	8:A:248:ILE:HG13	2.12	0.49
9:B:32:VAL:CG1	9:B:63:LYS:HZ2	2.25	0.49
10:C:16:GLU:O	11:D:29:ARG:NH1	2.39	0.49
11:D:66:LYS:HA	11:D:72:VAL:HA	1.94	0.49
11:D:144:GLU:CD	11:D:146:LYS:HZ3	2.21	0.49
14:G:8:TYR:CG	14:G:17:PRO:HD3	2.47	0.49
14:G:151:LEU:HD13	14:G:157:TYR:CD1	2.44	0.49
14:G:183:HIS:HA	14:G:185:GLU:HG2	1.94	0.49
15:H:242:PRO:CD	15:H:347:GLY:HA2	2.40	0.49
15:H:379:LEU:HD12	15:H:380:PRO:HD2	1.93	0.49
15:H:405:GLU:O	15:H:409:ARG:HG3	2.12	0.49
16:I:227:THR:HG23	16:I:228:GLY:H	1.77	0.49
16:I:262:ARG:HA	16:I:265:ARG:HB2	1.94	0.49
17:J:26:LYS:HZ2	21:N:106:ILE:HB	1.73	0.49
17:J:56:ARG:HG3	17:J:57:PHE:H	1.77	0.49
17:J:388:LYS:O	17:J:391:ASN:HB2	2.12	0.49
18:K:93:PRO:HB3	19:L:152:THR:O	2.13	0.49
18:K:126:LEU:HD22	18:K:130:LEU:HB3	1.93	0.49
18:K:209:VAL:HG12	18:K:336:ARG:HB2	1.94	0.49
18:K:260:LEU:HA	18:K:263:GLU:HB2	1.94	0.49
19:L:114:GLU:C	19:L:137:ARG:HE	2.19	0.49
19:L:133:ASN:O	19:L:135:VAL:HG13	2.12	0.49
19:L:242:ASN:O	19:L:277:ILE:N	2.46	0.49
20:M:80:ALA:HB2	20:M:121:THR:HA	1.95	0.49
20:M:219:LEU:HB3	20:M:346:LYS:HA	1.93	0.49
20:M:369:THR:O	20:M:410:VAL:N	2.44	0.49
21:N:143:LYS:HA	21:N:146:LYS:HE2	1.94	0.49
21:N:362:TRP:HH2	21:N:476:THR:HG23	1.76	0.49
21:N:399:PHE:O	21:N:403:GLY:N	2.46	0.49
21:N:414:GLY:H	21:N:453:ALA:HA	1.76	0.49
21:N:646:LYS:O	21:N:653:ARG:NH2	2.44	0.49
22:O:307:MET:HG2	22:O:309:SER:HB2	1.94	0.49
22:O:310:PHE:HE1	22:O:341:ILE:HG12	1.77	0.49
23:P:50:SER:HB2	23:P:53:ALA:HB2	1.93	0.49
23:P:72:TRP:H	23:P:72:TRP:CD1	2.30	0.49
23:P:280:LEU:HB3	23:P:283:LYS:HE2	1.95	0.49
24:Q:8:LEU:HD11	24:Q:12:ARG:HH22	1.77	0.49
25:R:205:GLU:CD	25:R:206:ARG:NH1	2.69	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:224:PHE:O	25:R:260:THR:HG21	2.12	0.49
25:R:292:LEU:HB3	25:R:307:TYR:CG	2.47	0.49
25:R:336:LYS:HG3	25:R:340:GLN:HE22	1.77	0.49
26:S:17:ASP:CA	26:S:20:HIS:HD2	2.25	0.49
26:S:21:SER:O	26:S:22:GLU:HG2	2.12	0.49
26:S:152:LEU:HB2	26:S:191:HIS:NE2	2.28	0.49
27:T:11:LEU:HD12	27:T:23:CYS:HB3	1.93	0.49
27:T:92:ASN:OD1	27:T:93:ASN:N	2.34	0.49
27:T:214:GLU:O	27:T:218:GLU:HG3	2.12	0.49
28:U:120:LEU:HD13	28:U:137:TYR:HB2	1.93	0.49
28:U:305:ARG:HH12	28:U:307:LYS:HG2	1.75	0.49
31:X:48:PHE:H	31:X:66:LEU:H	1.60	0.49
33:Z:181:GLY:HA2	33:Z:263:ALA:HB2	1.94	0.49
33:Z:421:SER:HB3	33:Z:902:TYR:OH	2.12	0.49
33:Z:430:LEU:O	33:Z:468:GLU:HB3	2.11	0.49
33:Z:523:ALA:C	33:Z:562:TRP:HZ3	2.20	0.49
33:Z:557:GLU:OE2	33:Z:563:VAL:HG22	2.13	0.49
33:Z:916:LEU:HD13	33:Z:920:GLY:O	2.12	0.49
10:c:185:LYS:N	10:c:188:ASP:OD2	2.42	0.49
10:c:217:ARG:O	10:c:226:TYR:N	2.36	0.49
10:c:240:VAL:HA	10:c:245:THR:CA	2.41	0.49
11:d:36:VAL:HG23	11:d:43:VAL:HB	1.95	0.49
11:d:67:ILE:HA	11:d:90:ARG:HG2	1.94	0.49
11:d:159:TRP:CZ3	12:e:59:LEU:N	2.80	0.49
12:e:70:ILE:HG23	12:e:93:ARG:HA	1.94	0.49
12:e:182:GLU:CD	12:e:206:GLN:HE22	2.20	0.49
13:f:136:GLY:N	13:f:143:HIS:O	2.44	0.49
3:h:195:VAL:HG22	3:h:204:ARG:HA	1.94	0.49
4:i:35:VAL:HG22	4:i:153:TYR:HB2	1.94	0.49
4:i:130:ALA:HA	4:i:138:HIS:O	2.12	0.49
7:l:76:THR:O	7:l:206:SER:OG	2.30	0.49
7:l:94:ARG:NH1	7:l:245:TYR:C	2.71	0.49
2:2:204:GLN:CD	2:2:204:GLN:N	2.70	0.49
4:4:130:ALA:HA	4:4:138:HIS:O	2.12	0.49
4:4:241:VAL:HG21	5:5:198:ARG:HD3	1.95	0.49
5:5:107:PRO:HG2	5:5:124:PHE:CD2	2.47	0.49
6:6:37:GLN:NE2	6:6:40:PRO:HA	2.28	0.49
6:6:101:ASN:HB3	6:6:133:HIS:ND1	2.27	0.49
6:6:158:LEU:O	6:6:161:LEU:HB2	2.12	0.49
6:6:158:LEU:HD23	6:6:161:LEU:HD12	1.94	0.49
7:7:242:ARG:HA	5:j:183:TRP:CZ2	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:256:THR:H	7:7:259:GLY:C	2.21	0.49
1:8:47:ARG:NH2	1:8:239:LYS:O	2.45	0.49
1:8:101:LYS:HD2	12:E:108:ASN:HD21	1.77	0.49
2:9:126:PHE:HZ	2:9:169:THR:HB	1.77	0.49
8:A:75:ILE:HG21	8:A:117:LEU:CD2	2.42	0.49
8:A:131:ARG:NH1	9:B:127:VAL:HG13	2.28	0.49
8:A:207:ILE:HD12	8:A:244:ARG:CB	2.40	0.49
9:B:124:SER:HB2	9:B:127:VAL:HG21	1.94	0.49
9:B:244:ASN:HA	9:B:247:LEU:HD12	1.94	0.49
10:C:36:ILE:N	10:C:47:ALA:O	2.26	0.49
10:C:42:ASP:OD1	10:C:42:ASP:N	2.44	0.49
11:D:118:GLN:HG3	12:E:83:ALA:HB1	1.93	0.49
12:E:70:ILE:HG23	12:E:93:ARG:HA	1.95	0.49
12:E:233:ASN:O	12:E:236:THR:HB	2.13	0.49
13:F:50:LYS:NZ	13:F:226:ASP:HB3	2.25	0.49
13:F:114:ASP:O	13:F:118:LYS:HG3	2.11	0.49
14:G:9:ASP:OD1	14:G:10:LEU:HG	2.12	0.49
14:G:45:GLY:HA3	14:G:219:CYS:O	2.13	0.49
14:G:135:SER:OG	14:G:153:PRO:HD3	2.13	0.49
15:H:377:PHE:CE2	15:H:380:PRO:HD3	2.46	0.49
16:I:132:ILE:H	16:I:138:LYS:NZ	2.10	0.49
16:I:268:PHE:CZ	16:I:309:LEU:HD12	2.47	0.49
17:J:52:ASN:HB3	21:N:611:LYS:NZ	2.27	0.49
17:J:116:ARG:HB2	17:J:119:SER:HB2	1.92	0.49
17:J:143:PRO:CG	17:J:210:PHE:HB3	2.39	0.49
17:J:180:ALA:HB1	17:J:183:LYS:HZ1	1.78	0.49
17:J:327:ILE:HG21	17:J:355:GLY:CA	2.43	0.49
17:J:380:GLU:OE2	24:Q:166:LYS:HD3	2.12	0.49
18:K:128:ARG:NH1	18:K:129:GLU:CD	2.70	0.49
19:L:275:PRO:HG3	19:L:320:GLN:HB3	1.95	0.49
20:M:117:ALA:CB	20:M:131:MET:HG2	2.42	0.49
20:M:263:VAL:HG11	20:M:308:LEU:HB2	1.95	0.49
21:N:227:LYS:HG3	21:N:724:THR:HG22	1.94	0.49
21:N:417:ARG:HA	21:N:420:THR:HB	1.94	0.49
21:N:591:LEU:O	21:N:593:PHE:N	2.45	0.49
21:N:592:GLY:HA2	21:N:595:LEU:HB2	1.94	0.49
22:O:94:GLU:HG3	22:O:95:SER:H	1.76	0.49
22:O:104:ALA:CB	22:O:132:GLU:HG3	2.38	0.49
25:R:107:GLU:HA	25:R:110:ILE:HD12	1.93	0.49
25:R:413:LYS:CA	25:R:416:LYS:HB3	2.41	0.49
26:S:214:MET:O	26:S:218:LEU:HG	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:357:LEU:HD12	26:S:384:ARG:HH11	1.76	0.49
28:U:302:GLN:HA	28:U:305:ARG:HB2	1.94	0.49
28:U:302:GLN:O	28:U:305:ARG:N	2.39	0.49
29:V:232:GLU:O	29:V:235:GLU:N	2.45	0.49
29:V:251:TYR:O	29:V:255:ILE:N	2.33	0.49
30:W:114:VAL:HG21	30:W:154:LEU:HD11	1.93	0.49
30:W:125:LEU:O	30:W:128:LEU:HB2	2.13	0.49
31:X:32:GLU:HG2	31:X:51:ARG:O	2.12	0.49
33:Z:190:THR:HG21	33:Z:198:GLU:OE2	2.11	0.49
33:Z:366:LYS:CE	33:Z:369:PHE:CZ	2.96	0.49
8:a:108:TYR:CZ	4:i:95:HIS:CD2	2.99	0.49
9:b:134:LEU:O	9:b:149:GLN:HA	2.13	0.49
9:b:135:LEU:HD21	9:b:164:ILE:HG23	1.93	0.49
10:c:13:PHE:CE2	11:d:127:ARG:HD2	2.47	0.49
10:c:24:TYR:O	10:c:28:SER:N	2.37	0.49
11:d:36:VAL:O	11:d:43:VAL:N	2.28	0.49
14:g:99:PHE:CE1	14:g:107:ILE:HA	2.47	0.49
3:h:57:HIS:O	3:h:61:TRP:NE1	2.46	0.49
3:h:149:GLY:HA2	3:h:152:PHE:CD2	2.47	0.49
3:h:175:LYS:HB2	3:h:194:MET:HE1	1.93	0.49
4:i:163:ALA:O	4:i:167:LEU:HG	2.13	0.49
5:j:12:VAL:O	5:j:139:SER:N	2.43	0.49
7:l:113:ASN:OD1	7:l:115:PHE:HB2	2.13	0.49
7:l:243:ASP:OD2	7:l:246:SER:N	2.45	0.49
1:1:46:THR:OG1	1:1:222:GLU:HG3	2.12	0.49
1:1:224:LEU:HG	1:1:233:LYS:HG2	1.94	0.49
5:5:50:PHE:CE2	5:5:195:VAL:HG21	2.47	0.49
6:6:41:HIS:HD2	6:6:107:TYR:HB3	1.77	0.49
6:6:145:ASP:O	7:l:281:SER:HB2	2.13	0.49
1:8:46:THR:OG1	1:8:222:GLU:HG3	2.12	0.49
1:8:49:ILE:HA	1:8:54:ILE:HA	1.94	0.49
1:8:225:ILE:HG21	1:8:232:ARG:NH2	2.27	0.49
8:A:71:TYR:O	8:A:83:VAL:N	2.39	0.49
8:A:186:PHE:HA	8:A:189:SER:OG	2.12	0.49
9:B:200:VAL:HG21	9:B:204:PHE:CD1	2.47	0.49
12:E:88:MET:O	12:E:92:ALA:N	2.27	0.49
12:E:144:ILE:CD1	12:E:158:ALA:HB2	2.42	0.49
13:F:11:VAL:HG21	14:G:128:SER:HA	1.95	0.49
14:G:34:GLY:HA3	14:G:79:SER:HB3	1.93	0.49
14:G:49:ALA:HB2	14:G:216:ILE:HG23	1.93	0.49
14:G:99:PHE:CE1	14:G:107:ILE:HA	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:219:VAL:HA	16:I:346:ARG:HB2	1.95	0.49
17:J:177:LEU:HG	17:J:179:ILE:HG23	1.93	0.49
17:J:265:ASP:HA	17:J:268:VAL:HB	1.93	0.49
20:M:23:LEU:O	20:M:26:SER:OG	2.27	0.49
21:N:69:TYR:HB2	21:N:78:ALA:HB2	1.95	0.49
21:N:151:LYS:HA	21:N:154:LEU:HB2	1.94	0.49
21:N:322:ASP:HB2	21:N:358:LYS:HD3	1.95	0.49
21:N:380:LEU:C	21:N:384:LYS:HZ3	2.20	0.49
21:N:385:VAL:O	21:N:388:PRO:HD2	2.13	0.49
21:N:406:TYR:CD1	21:N:448:LEU:HB3	2.47	0.49
22:O:147:ARG:HG2	22:O:151:ASP:OD2	2.12	0.49
22:O:263:PHE:HD1	22:O:284:GLU:CD	2.20	0.49
23:P:127:GLU:CG	23:P:128:ASN:H	2.23	0.49
23:P:164:GLN:HA	23:P:176:LYS:HE2	1.95	0.49
23:P:349:ASN:ND2	23:P:353:ILE:HD11	2.27	0.49
24:Q:40:ALA:HB2	24:Q:46:VAL:HG22	1.95	0.49
24:Q:70:ALA:O	24:Q:73:LYS:HB2	2.12	0.49
24:Q:278:VAL:O	24:Q:281:ILE:HB	2.13	0.49
24:Q:289:GLU:HB2	24:Q:291:TYR:CD2	2.47	0.49
24:Q:409:TYR:OH	25:R:406:GLN:HB2	2.13	0.49
25:R:116:LYS:O	25:R:120:LEU:N	2.34	0.49
25:R:164:THR:HG21	25:R:200:LYS:CE	2.42	0.49
25:R:335:ARG:HH12	25:R:377:LEU:N	2.11	0.49
26:S:227:ASN:OD1	26:S:228:GLU:N	2.46	0.49
26:S:231:ALA:HB3	26:S:259:TYR:CZ	2.48	0.49
28:U:30:ASN:CG	28:U:31:LYS:HG3	2.38	0.49
28:U:36:VAL:HG21	28:U:76:MET:SD	2.51	0.49
29:V:255:ILE:O	29:V:258:GLU:HG2	2.12	0.49
33:Z:448:LYS:O	33:Z:452:LEU:HG	2.12	0.49
33:Z:506:LEU:HD13	33:Z:530:LEU:HD13	1.94	0.49
33:Z:808:SER:HA	33:Z:811:SER:HB3	1.94	0.49
33:Z:886:VAL:O	33:Z:896:LYS:NZ	2.45	0.49
8:a:62:LYS:NZ	14:g:181:ASP:OD2	2.45	0.49
8:a:186:PHE:HA	8:a:189:SER:OG	2.12	0.49
10:c:39:MET:HA	10:c:44:ILE:HG12	1.95	0.49
11:d:188:VAL:HG13	11:d:214:VAL:HG11	1.93	0.49
12:e:192:THR:HG23	12:e:195:GLU:OE2	2.13	0.49
13:f:13:PHE:H	14:g:23:GLN:HE22	1.60	0.49
14:g:8:TYR:CG	14:g:17:PRO:HD3	2.47	0.49
14:g:169:ARG:NH2	14:g:170:GLN:HE22	2.11	0.49
3:h:14:GLY:O	4:i:143:HIS:HB3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:25:VAL:HA	3:h:143:TYR:HA	1.94	0.49
3:h:78:VAL:O	3:h:82:LEU:HG	2.12	0.49
4:i:30:THR:O	4:i:158:SER:OG	2.30	0.49
4:i:230:LYS:HD3	4:i:232:TYR:CE1	2.47	0.49
5:j:50:PHE:CE2	5:j:195:VAL:HG21	2.47	0.49
6:k:116:LEU:O	6:k:127:GLU:HG3	2.12	0.49
6:k:140:THR:O	6:k:143:LEU:N	2.46	0.49
6:k:147:HIS:C	6:k:149:ARG:NH1	2.71	0.49
6:k:158:LEU:HD23	6:k:161:LEU:HD12	1.94	0.49
1:1:47:ARG:NH2	1:1:239:LYS:O	2.45	0.49
1:1:178:GLN:OE1	1:1:189:LYS:HD3	2.13	0.49
2:2:226:ARG:NE	2:2:247:VAL:O	2.38	0.49
2:2:253:ASP:CG	2:2:256:LYS:NZ	2.71	0.49
3:3:78:VAL:O	3:3:82:LEU:HG	2.12	0.49
3:3:89:TYR:CE1	14:G:111:ALA:HA	2.48	0.49
4:4:99:THR:O	4:4:101:ARG:HG3	2.13	0.49
5:5:30:GLY:HA2	5:5:36:VAL:HG23	1.93	0.49
5:5:146:LEU:O	5:5:150:CYS:N	2.28	0.49
5:5:189:ILE:CG1	5:5:198:ARG:NH1	2.76	0.49
7:7:121:ALA:HB3	7:7:173:GLY:O	2.11	0.49
1:8:37:GLU:HB2	1:8:193:TYR:CE1	2.46	0.49
1:8:178:GLN:OE1	1:8:189:LYS:HD3	2.13	0.49
1:8:197:GLU:H	1:8:197:GLU:CD	2.21	0.49
2:9:49:TYR:HD1	2:9:50:ASP:OD1	1.96	0.49
2:9:61:GLY:HA3	2:9:72:VAL:HG21	1.95	0.49
10:C:185:LYS:HE3	10:C:187:ASP:CB	2.33	0.49
11:D:162:GLN:HE22	11:D:172:ARG:HE	1.60	0.49
13:F:40:SER:OG	13:F:43:HIS:N	2.22	0.49
15:H:183:ILE:HG23	15:H:184:GLU:HA	1.95	0.49
15:H:215:LYS:HA	15:H:218:ILE:HD12	1.94	0.49
15:H:364:ALA:O	15:H:370:ARG:HD3	2.13	0.49
16:I:169:SER:HB3	16:I:263:LEU:CB	2.42	0.49
16:I:202:LEU:HD13	16:I:321:ASP:HA	1.94	0.49
17:J:24:GLU:HG2	17:J:25:GLN:H	1.77	0.49
17:J:42:ARG:HB2	26:S:484:ASP:CG	2.37	0.49
17:J:265:ASP:O	17:J:269:GLN:HG2	2.12	0.49
18:K:298:GLU:O	18:K:302:GLN:HG3	2.12	0.49
19:L:165:PRO:HB2	19:L:169:ASN:H	1.77	0.49
19:L:259:SER:CB	19:L:304:THR:HG1	2.23	0.49
19:L:263:ILE:HG22	19:L:311:GLN:NE2	2.27	0.49
20:M:30:LEU:HD23	20:M:33:ARG:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:228:LYS:HG2	20:M:349:PHE:CB	2.43	0.49
21:N:919:THR:H	21:N:922:GLN:HB2	1.77	0.49
22:O:68:LYS:HD2	22:O:72:LYS:HD3	1.94	0.49
22:O:94:GLU:CG	22:O:95:SER:H	2.23	0.49
22:O:253:GLN:HA	22:O:256:ASN:ND2	2.27	0.49
22:O:296:LEU:HA	22:O:300:VAL:HG23	1.95	0.49
22:O:384:MET:N	27:T:262:LYS:HE3	2.28	0.49
23:P:107:SER:C	23:P:108:LYS:CG	2.86	0.49
23:P:221:TYR:O	23:P:225:VAL:N	2.36	0.49
23:P:258:LYS:O	23:P:261:LEU:N	2.45	0.49
25:R:111:LYS:HA	25:R:114:ASN:ND2	2.28	0.49
25:R:236:ALA:HB2	25:R:246:TYR:CE1	2.48	0.49
26:S:345:TYR:O	26:S:348:LEU:HB2	2.12	0.49
26:S:377:TYR:CD2	27:T:133:ILE:HD11	2.47	0.49
26:S:379:LEU:C	26:S:381:VAL:H	2.20	0.49
26:S:383:LEU:HA	26:S:386:ASN:ND2	2.28	0.49
27:T:51:TYR:CG	27:T:52:LEU:N	2.78	0.49
27:T:52:LEU:HD12	27:T:52:LEU:O	2.11	0.49
27:T:104:LYS:NZ	27:T:169:GLN:NE2	2.61	0.49
27:T:216:GLU:HA	27:T:219:LYS:NZ	2.27	0.49
29:V:29:ILE:HB	29:V:203:TYR:HB3	1.93	0.49
29:V:142:ASP:HB3	29:V:145:GLN:HB2	1.95	0.49
29:V:207:ALA:O	29:V:210:THR:HB	2.12	0.49
30:W:20:ASP:HB3	30:W:25:ARG:HD2	1.95	0.49
31:X:47:ASP:HB3	31:X:65:SER:HG	1.76	0.49
31:X:62:ASP:OD1	31:X:63:PRO:HD2	2.12	0.49
32:Y:72:ASP:OD1	32:Y:73:PHE:N	2.41	0.49
33:Z:204:CYS:O	33:Z:208:VAL:HG23	2.13	0.49
33:Z:309:GLN:HE22	33:Z:972:SER:HB2	1.78	0.49
33:Z:482:ASP:OD2	33:Z:485:ILE:HD12	2.13	0.49
33:Z:574:TYR:OH	33:Z:603:VAL:HA	2.13	0.49
10:c:134:SER:OG	10:c:152:ASN:HA	2.12	0.49
12:e:17:PRO:HA	13:f:24:TYR:CE1	2.48	0.49
12:e:128:SER:H	13:f:125:GLY:HA3	1.76	0.49
13:f:19:LEU:O	13:f:22:VAL:HB	2.13	0.49
14:g:26:TYR:O	14:g:29:LYS:HB2	2.11	0.49
14:g:84:ASP:O	14:g:87:HIS:HB3	2.13	0.49
5:j:178:ASP:OD1	5:j:179:ALA:N	2.45	0.49
6:k:81:SER:CB	6:k:125:LYS:HD2	2.36	0.49
7:l:209:THR:HA	7:l:212:TYR:HD2	1.76	0.49
1:1:198:GLU:HA	1:1:201:LYS:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:90:ILE:HG22	2:2:94:GLN:HG3	1.95	0.49
2:2:133:MET:HE3	2:2:165:LEU:HA	1.95	0.49
3:3:57:HIS:O	3:3:61:TRP:NE1	2.46	0.49
3:3:195:VAL:HG22	3:3:204:ARG:HA	1.94	0.49
4:4:35:VAL:HG22	4:4:153:TYR:HB2	1.94	0.49
4:4:95:HIS:CD2	8:A:108:TYR:CZ	3.01	0.49
7:7:94:ARG:NH1	7:7:244:ALA:C	2.69	0.49
7:7:213:GLY:HA3	6:k:142:SER:OG	2.12	0.49
2:9:261:TYR:CD1	3:h:72:GLN:HG2	2.48	0.49
8:A:117:LEU:O	8:A:120:ARG:HB3	2.11	0.49
9:B:137:ALA:HB1	9:B:214:ILE:HG12	1.94	0.49
11:D:36:VAL:HG23	11:D:43:VAL:HB	1.95	0.49
11:D:43:VAL:HG13	11:D:214:VAL:HG22	1.93	0.49
12:E:72:ARG:O	12:E:228:PHE:N	2.37	0.49
12:E:192:THR:HG23	12:E:195:GLU:OE2	2.13	0.49
14:G:169:ARG:NH2	14:G:170:GLN:HE22	2.11	0.49
14:G:185:GLU:HG3	14:G:186:GLY:H	1.76	0.49
18:K:383:ILE:O	18:K:387:MET:HG2	2.13	0.49
19:L:386:PHE:CE2	19:L:419:VAL:HG13	2.46	0.49
20:M:313:ASP:HB2	20:M:342:ARG:HH21	1.75	0.49
20:M:351:LEU:CD2	20:M:387:ASN:HB3	2.43	0.49
21:N:117:TYR:CE1	21:N:121:GLU:HG2	2.47	0.49
21:N:120:ASP:HB3	21:N:123:PHE:HB3	1.94	0.49
21:N:257:ILE:O	21:N:260:ASP:HB2	2.12	0.49
21:N:567:ALA:HA	21:N:570:ARG:CZ	2.43	0.49
21:N:585:ARG:NH1	21:N:651:PHE:CE2	2.80	0.49
21:N:702:ALA:O	21:N:705:ILE:HB	2.12	0.49
21:N:757:THR:HG23	21:N:871:MET:HG2	1.94	0.49
22:O:15:ARG:NH2	30:W:145:GLY:O	2.46	0.49
22:O:294:MET:HG2	22:O:356:ARG:HE	1.77	0.49
23:P:146:ILE:HG22	23:P:150:GLU:HG3	1.94	0.49
23:P:233:GLU:C	23:P:237:VAL:HG23	2.36	0.49
23:P:254:GLU:O	23:P:258:LYS:HG3	2.11	0.49
23:P:393:VAL:HG21	24:Q:353:PRO:HB3	1.95	0.49
24:Q:99:THR:HG23	24:Q:103:LYS:HZ3	1.77	0.49
24:Q:99:THR:HA	24:Q:102:GLU:OE1	2.12	0.49
24:Q:151:TYR:O	24:Q:155:LEU:N	2.33	0.49
24:Q:276:ASP:HA	24:Q:279:LYS:NZ	2.28	0.49
24:Q:356:CYS:SG	24:Q:399:VAL:HG13	2.52	0.49
25:R:101:GLU:CG	25:R:105:LYS:HE3	2.42	0.49
26:S:280:ASN:HD22	26:S:289:ALA:N	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:329:GLU:C	26:S:331:SER:H	2.21	0.49
28:U:9:THR:HG21	28:U:47:ARG:HG3	1.94	0.49
28:U:70:HIS:CE1	28:U:73:ILE:HB	2.47	0.49
29:V:241:THR:OG1	29:V:297:THR:CG2	2.61	0.49
30:W:6:THR:HB	30:W:49:VAL:HG22	1.94	0.49
30:W:148:GLU:HB2	30:W:150:ASN:ND2	2.27	0.49
30:W:150:ASN:H	30:W:152:GLU:CD	2.20	0.49
33:Z:146:PHE:CE1	33:Z:213:LYS:HB2	2.47	0.49
33:Z:585:LEU:HD11	33:Z:600:GLU:O	2.13	0.49
33:Z:793:PHE:HB3	33:Z:830:LEU:CA	2.42	0.49
8:a:12:TYR:O	8:a:16:ILE:HG12	2.13	0.49
9:b:98:LYS:O	9:b:101:TYR:N	2.45	0.49
9:b:179:TRP:HB3	10:c:56:LEU:HD11	1.95	0.49
10:c:96:GLN:NE2	5:j:72:ASN:HD22	2.09	0.49
10:c:143:ARG:HH22	6:k:73:TYR:HB2	1.75	0.49
10:c:218:LYS:CA	10:c:225:VAL:HA	2.39	0.49
13:f:40:SER:HA	13:f:180:ILE:HD12	1.95	0.49
13:f:63:ILE:HG21	13:f:214:ALA:HB2	1.94	0.49
13:f:92:CYS:SG	13:f:103:LEU:HB3	2.52	0.49
14:g:9:ASP:OD1	14:g:10:LEU:HG	2.12	0.49
14:g:81:LEU:HD12	14:g:84:ASP:OD2	2.13	0.49
3:h:172:ASP:O	3:h:176:HIS:N	2.29	0.49
5:j:87:PHE:O	5:j:91:VAL:HG23	2.13	0.49
2:2:252:TRP:CH2	3:3:48:ARG:HD2	2.48	0.49
2:2:256:LYS:HG3	2:2:257:ASP:OD1	2.13	0.49
3:3:12:LYS:CE	4:4:120:GLN:HB3	2.39	0.49
3:3:108:ASN:HB2	3:3:112:LEU:HD11	1.93	0.49
3:3:153:ILE:HD12	3:3:177:SER:HB3	1.95	0.49
6:6:15:LEU:O	6:6:181:VAL:HA	2.13	0.49
6:6:21:VAL:HB	6:6:29:LYS:H	1.77	0.49
6:6:140:THR:O	6:6:143:LEU:N	2.46	0.49
7:7:243:ASP:OD2	7:7:246:SER:N	2.45	0.49
1:8:22:ASN:CG	1:8:24:TYR:H	2.21	0.49
1:8:134:ASP:OD2	1:8:136:ASP:HB2	2.12	0.49
2:9:252:TRP:CD1	3:h:209:PRO:HD2	2.48	0.49
2:9:253:ASP:CG	2:9:256:LYS:NZ	2.71	0.49
8:A:91:ARG:CZ	14:G:157:TYR:CE1	2.96	0.49
10:C:64:GLU:HG2	10:C:212:GLU:OE2	2.13	0.49
11:D:67:ILE:HA	11:D:90:ARG:HG2	1.94	0.49
12:E:221:CYS:O	12:E:229:LYS:N	2.26	0.49
14:G:46:VAL:N	14:G:219:CYS:O	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:59:ILE:HA	15:H:62:ARG:HB3	1.95	0.49
15:H:95:HIS:HA	15:H:190:ARG:O	2.13	0.49
15:H:176:VAL:CG2	15:H:181:TYR:H	2.26	0.49
16:I:171:MET:SD	16:I:245:LEU:HD22	2.53	0.49
16:I:199:GLU:HB2	16:I:236:VAL:HG13	1.95	0.49
16:I:387:LEU:HD11	16:I:420:LYS:HG3	1.94	0.49
17:J:198:LEU:CD2	17:J:316:PHE:CE2	2.95	0.49
19:L:105:ILE:HD13	19:L:147:THR:HA	1.95	0.49
20:M:228:LYS:NZ	20:M:327:THR:N	2.61	0.49
20:M:260:ALA:O	20:M:264:ARG:N	2.39	0.49
20:M:413:GLU:O	20:M:417:GLU:N	2.34	0.49
21:N:335:ALA:O	21:N:338:PHE:HB2	2.13	0.49
21:N:368:THR:OG1	21:N:400:ILE:HA	2.13	0.49
22:O:8:ASP:HB3	22:O:26:PHE:CE2	2.47	0.49
22:O:149:LEU:HA	22:O:152:ASP:HB2	1.95	0.49
22:O:185:PHE:HA	22:O:189:TYR:H	1.77	0.49
22:O:189:TYR:CE2	22:O:232:GLU:OE2	2.64	0.49
22:O:302:VAL:O	22:O:305:ILE:HG13	2.13	0.49
22:O:332:ILE:HA	22:O:336:LEU:N	2.27	0.49
22:O:373:TRP:O	22:O:377:VAL:HG23	2.13	0.49
23:P:128:ASN:HD21	23:P:167:THR:HG22	1.77	0.49
23:P:168:TYR:CB	23:P:170:SER:H	2.25	0.49
23:P:281:ILE:HG23	23:P:297:GLU:OE2	2.12	0.49
23:P:299:LEU:HA	23:P:302:LEU:HD12	1.95	0.49
23:P:307:GLU:HB2	23:P:310:ARG:HG3	1.93	0.49
23:P:430:GLY:O	23:P:432:LEU:N	2.46	0.49
24:Q:81:SER:HA	24:Q:84:TYR:HB2	1.94	0.49
24:Q:109:ASP:OD1	24:Q:110:SER:N	2.46	0.49
24:Q:125:ALA:CB	24:Q:134:LYS:HB3	2.42	0.49
24:Q:305:ALA:O	24:Q:309:ARG:N	2.46	0.49
24:Q:359:ILE:HG21	24:Q:370:THR:HG23	1.94	0.49
25:R:350:LEU:HA	25:R:353:MET:HB3	1.95	0.49
26:S:146:LEU:HA	26:S:149:SER:O	2.12	0.49
26:S:310:LEU:HG	26:S:314:ASN:HD21	1.77	0.49
26:S:363:THR:O	26:S:367:TYR:N	2.31	0.49
26:S:428:ARG:HA	27:T:195:LEU:HD12	1.94	0.49
27:T:82:PHE:O	27:T:86:LYS:N	2.39	0.49
29:V:52:LEU:O	29:V:68:VAL:HG23	2.13	0.49
29:V:54:LEU:HB2	29:V:67:ASP:HB3	1.95	0.49
29:V:119:SER:H	29:V:122:ASP:HB2	1.77	0.49
30:W:9:VAL:HG22	30:W:52:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:7:VAL:HB	31:X:36:LYS:HB2	1.94	0.49
31:X:24:CYS:HB3	31:X:86:ILE:HG12	1.95	0.49
33:Z:463:HIS:CG	33:Z:464:ASP:H	2.31	0.49
33:Z:511:PRO:HA	33:Z:514:ALA:HB3	1.93	0.49
33:Z:847:ILE:O	33:Z:851:ALA:N	2.34	0.49
8:a:125:SER:O	8:a:129:THR:N	2.27	0.49
10:c:40:ALA:N	10:c:43:GLY:O	2.46	0.49
10:c:96:GLN:HE22	5:j:72:ASN:ND2	2.10	0.49
11:d:34:VAL:HG23	11:d:163:THR:HB	1.95	0.49
12:e:233:ASN:O	12:e:236:THR:HB	2.13	0.49
4:i:170:HIS:HB2	4:i:183:LEU:CD1	2.40	0.49
6:k:43:LEU:HB2	6:k:189:ILE:CD1	2.42	0.49
6:k:88:LEU:HD13	6:k:121:TYR:HA	1.94	0.49
6:k:96:ARG:HH12	7:l:166:LYS:HD3	1.77	0.49
6:k:115:GLU:HA	6:k:127:GLU:OE2	2.12	0.49
7:l:218:ASN:HB2	7:l:231:LEU:HD11	1.95	0.49
1:1:64:ASP:OD1	1:1:65:CYS:N	2.46	0.49
6:6:88:LEU:HD13	6:6:121:TYR:HA	1.94	0.49
7:7:87:ILE:HG13	7:7:185:PRO:HB3	1.94	0.49
7:7:127:CYS:O	7:7:128:GLN:C	2.55	0.49
7:7:244:ALA:N	5:j:33:SER:O	2.32	0.49
1:8:122:PHE:CZ	2:9:137:ARG:NH1	2.72	0.49
2:9:256:LYS:HG3	2:9:257:ASP:OD1	2.13	0.49
9:B:64:VAL:N	9:B:210:GLU:OE2	2.38	0.49
9:B:187:ASP:O	9:B:191:ILE:N	2.23	0.49
11:D:74:SER:HG	11:D:134:LEU:HB2	1.78	0.49
13:F:40:SER:HA	13:F:180:ILE:HD12	1.95	0.49
14:G:12:ASN:HD22	14:G:129:VAL:HG23	1.77	0.49
14:G:84:ASP:O	14:G:87:HIS:HB3	2.13	0.49
14:G:178:LYS:O	14:G:181:ASP:N	2.46	0.49
15:H:197:MET:HG3	15:H:278:GLU:CD	2.37	0.49
15:H:214:CYS:HB2	15:H:218:ILE:HD11	1.95	0.49
17:J:37:LYS:O	17:J:39:GLU:N	2.44	0.49
17:J:54:LYS:HB3	17:J:58:ILE:HD11	1.95	0.49
17:J:71:TYR:HE2	17:J:120:TYR:CZ	2.30	0.49
17:J:303:ALA:HA	17:J:306:ARG:HG3	1.95	0.49
17:J:339:ARG:NH1	25:R:206:ARG:NH2	2.61	0.49
17:J:395:GLU:HG2	17:J:396:THR:HG23	1.95	0.49
19:L:110:LYS:HG2	19:L:118:ILE:HB	1.94	0.49
19:L:165:PRO:O	19:L:168:TYR:N	2.35	0.49
19:L:282:GLU:H	19:L:326:ALA:HB3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:357:ARG:HB3	19:L:391:ILE:HD11	1.95	0.49
19:L:369:LYS:O	19:L:409:HIS:HA	2.13	0.49
20:M:269:LEU:HD23	20:M:272:GLU:OE2	2.13	0.49
20:M:276:THR:CG2	20:M:321:VAL:HA	2.43	0.49
21:N:117:TYR:HA	21:N:123:PHE:CD1	2.48	0.49
21:N:703:GLN:O	21:N:707:ASN:ND2	2.45	0.49
22:O:15:ARG:CB	30:W:18:ASN:CG	2.71	0.49
22:O:81:TYR:O	22:O:84:ALA:N	2.27	0.49
22:O:133:ILE:HG22	22:O:137:TYR:CZ	2.48	0.49
22:O:253:GLN:O	22:O:256:ASN:HB2	2.12	0.49
23:P:114:THR:O	23:P:117:SER:HB2	2.12	0.49
23:P:158:ASP:HA	23:P:161:CYS:SG	2.52	0.49
23:P:184:MET:HG2	23:P:196:ALA:CA	2.42	0.49
24:Q:47:ASP:OD2	24:Q:54:GLN:OE1	2.30	0.49
25:R:178:GLY:CA	25:R:183:ASP:HB2	2.42	0.49
25:R:307:TYR:O	25:R:311:THR:OG1	2.25	0.49
25:R:350:LEU:HD22	25:R:381:ILE:HD11	1.95	0.49
25:R:393:PRO:CB	25:R:397:ASN:HA	2.43	0.49
26:S:277:SER:OG	26:S:292:TYR:HB2	2.13	0.49
27:T:252:GLU:O	27:T:256:LYS:HB2	2.13	0.49
28:U:24:ARG:NH2	29:V:100:ARG:HD3	2.28	0.49
28:U:84:ASN:OD1	28:U:86:LYS:N	2.28	0.49
28:U:162:GLU:O	28:U:164:GLU:HB2	2.13	0.49
29:V:28:TYR:HB2	29:V:64:ASN:HA	1.95	0.49
30:W:129:ALA:HA	30:W:161:VAL:HG22	1.95	0.49
31:X:31:GLY:N	31:X:102:GLN:OE1	2.46	0.49
33:Z:358:TYR:O	33:Z:362:LEU:N	2.43	0.49
33:Z:369:PHE:HA	33:Z:390:LEU:HD11	1.95	0.49
33:Z:463:HIS:CG	33:Z:464:ASP:N	2.81	0.49
33:Z:970:TYR:HE1	33:Z:985:LYS:HZ3	1.59	0.49
9:b:148:TYR:CD1	9:b:158:PRO:HA	2.47	0.49
11:d:73:LEU:HG	11:d:134:LEU:O	2.13	0.49
12:e:40:ILE:HG12	12:e:169:ALA:CB	2.43	0.49
12:e:205:LYS:HZ1	12:e:211:LYS:HG3	1.78	0.49
14:g:183:HIS:HA	14:g:185:GLU:HG2	1.94	0.49
3:h:153:ILE:HD12	3:h:177:SER:HB3	1.95	0.49
4:i:191:GLY:O	4:i:195:ASP:HB3	2.12	0.49
4:i:207:MET:HG2	4:i:213:ALA:CB	2.43	0.49
6:k:15:LEU:O	6:k:181:VAL:HA	2.13	0.49
1:1:101:LYS:HD2	12:e:108:ASN:ND2	2.27	0.48
2:2:161:ARG:HH11	2:2:171:SER:HB2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:98:TYR:CE1	8:A:119:LYS:HE2	2.48	0.48
5:5:69:TYR:CD1	10:C:100:LYS:HE3	2.48	0.48
6:6:41:HIS:NE2	6:6:109:LYS:HD3	2.28	0.48
6:6:120:ASP:OD1	6:6:123:GLY:N	2.46	0.48
6:6:147:HIS:C	6:6:149:ARG:NH1	2.71	0.48
1:8:164:LEU:HD21	1:8:213:ARG:HB2	1.94	0.48
2:9:133:MET:O	2:9:137:ARG:N	2.41	0.48
8:A:30:TYR:HB3	14:G:16:SER:O	2.13	0.48
8:A:93:ALA:O	8:A:97:ALA:N	2.29	0.48
8:A:104:PHE:O	8:A:108:TYR:N	2.35	0.48
8:A:206:ALA:O	8:A:209:HIS:N	2.46	0.48
9:B:6:SER:OG	11:D:4:TYR:HD1	1.96	0.48
9:B:184:GLU:OE2	9:B:186:GLU:N	2.45	0.48
10:C:44:ILE:HD11	10:C:146:TYR:HB3	1.95	0.48
10:C:124:GLN:O	11:D:127:ARG:HG2	2.13	0.48
12:E:84:ASP:OD1	12:E:136:ARG:NH2	2.30	0.48
12:E:243:LEU:O	12:E:247:GLU:HG3	2.13	0.48
15:H:173:ARG:HH21	16:I:127:ASP:N	2.11	0.48
15:H:287:GLY:O	15:H:291:VAL:HG23	2.13	0.48
15:H:393:SER:HB3	15:H:404:TRP:CE2	2.48	0.48
16:I:172:LYS:HZ3	16:I:234:LYS:NZ	2.10	0.48
16:I:275:ALA:HA	16:I:276:PRO:C	2.38	0.48
17:J:160:ILE:HA	17:J:163:VAL:CG1	2.42	0.48
18:K:60:LEU:O	18:K:64:GLN:N	2.29	0.48
18:K:84:GLU:HB3	18:K:88:ARG:NH1	2.20	0.48
19:L:81:ILE:HG23	20:M:22:ILE:HD11	1.95	0.48
19:L:286:ILE:HD12	19:L:304:THR:HG21	1.95	0.48
20:M:269:LEU:O	20:M:272:GLU:HB2	2.13	0.48
20:M:359:GLN:O	20:M:362:GLN:HB3	2.13	0.48
20:M:416:VAL:O	20:M:420:SER:N	2.46	0.48
21:N:86:LYS:CE	21:N:132:LYS:HE2	2.41	0.48
21:N:185:ILE:HD13	21:N:188:TYR:HD2	1.77	0.48
22:O:34:GLU:CD	22:O:36:LYS:HB2	2.38	0.48
22:O:124:ASP:CG	22:O:125:GLY:H	2.21	0.48
23:P:392:LYS:O	23:P:400:VAL:HG22	2.12	0.48
23:P:433:ILE:HG21	28:U:206:ASP:OD2	2.13	0.48
24:Q:41:ALA:HA	24:Q:84:TYR:CD1	2.48	0.48
24:Q:326:MET:HG3	24:Q:332:ARG:HD3	1.94	0.48
24:Q:379:GLN:HE22	25:R:263:ARG:NH2	2.11	0.48
25:R:43:ARG:HD3	25:R:88:LEU:C	2.38	0.48
25:R:54:ILE:HG21	25:R:63:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:95:ASP:OD1	25:R:98:LEU:N	2.34	0.48
25:R:205:GLU:O	25:R:207:ARG:N	2.46	0.48
25:R:337:VAL:O	25:R:340:GLN:HB2	2.13	0.48
26:S:184:TRP:O	26:S:187:ILE:HB	2.13	0.48
26:S:230:LYS:O	26:S:232:MET:N	2.46	0.48
26:S:336:SER:HA	26:S:339:GLN:NE2	2.22	0.48
26:S:344:PRO:HA	26:S:347:HIS:HB2	1.95	0.48
26:S:401:LYS:HG2	26:S:444:GLU:HG2	1.95	0.48
27:T:112:ASN:O	27:T:115:SER:OG	2.31	0.48
27:T:226:TRP:CE2	27:T:235:PHE:HE2	2.30	0.48
28:U:167:GLU:HG2	29:V:35:LEU:HD13	1.95	0.48
28:U:168:GLU:O	28:U:171:VAL:HB	2.12	0.48
29:V:289:GLU:C	29:V:291:ASN:H	2.21	0.48
31:X:10:PHE:HB2	31:X:33:ILE:O	2.13	0.48
33:Z:366:LYS:HA	33:Z:962:ARG:HH12	1.78	0.48
33:Z:764:LEU:HA	33:Z:767:TYR:CD2	2.48	0.48
8:a:41:ASN:CG	8:a:174:LYS:H	2.21	0.48
9:b:171:ALA:O	9:b:175:LEU:N	2.30	0.48
10:c:14:SER:HG	10:c:16:GLU:HB2	1.77	0.48
10:c:44:ILE:HD11	10:c:146:TYR:HB3	1.95	0.48
11:d:79:ASN:O	11:d:83:ARG:HG3	2.12	0.48
11:d:162:GLN:HE22	11:d:172:ARG:HE	1.60	0.48
4:i:115:HIS:CE1	4:i:119:TYR:CE2	3.00	0.48
1:1:164:LEU:O	1:1:167:PRO:HD2	2.13	0.48
3:3:72:GLN:OE1	4:4:147:SER:HA	2.13	0.48
5:5:34:LEU:HD22	6:6:138:PHE:CE1	2.46	0.48
5:5:67:PHE:O	5:5:71:THR:N	2.31	0.48
7:7:100:TRP:HH2	1:8:167:PRO:HD3	1.78	0.48
1:8:89:ASN:OD1	1:8:93:TRP:NE1	2.45	0.48
1:8:164:LEU:O	1:8:167:PRO:HD2	2.13	0.48
2:9:36:GLN:NE2	2:9:38:ILE:HD11	2.22	0.48
2:9:81:ASN:HB2	2:9:152:VAL:O	2.13	0.48
8:A:12:TYR:O	8:A:16:ILE:HG12	2.13	0.48
8:A:166:TYR:HB3	8:A:168:ALA:O	2.12	0.48
8:A:240:ASN:O	8:A:243:GLU:HB3	2.13	0.48
10:C:231:LYS:N	10:C:234:GLU:HB2	2.28	0.48
14:G:198:LYS:HZ2	14:G:199:ILE:HG13	1.77	0.48
14:G:199:ILE:O	14:G:203:ALA:N	2.22	0.48
15:H:51:GLN:CA	16:I:92:GLU:HG2	2.37	0.48
15:H:206:VAL:HG21	15:H:258:LEU:HB3	1.95	0.48
15:H:228:PRO:HG3	15:H:242:PRO:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:228:PRO:CB	15:H:350:LYS:HZ1	2.25	0.48
15:H:399:GLU:CA	15:H:437:VAL:HB	2.42	0.48
16:I:358:LYS:HG3	16:I:392:ILE:HD11	1.93	0.48
17:J:52:ASN:ND2	21:N:612:SER:HA	2.23	0.48
17:J:213:VAL:C	17:J:248:ASP:HB2	2.38	0.48
17:J:324:ARG:HD3	17:J:353:CYS:O	2.12	0.48
17:J:368:TYR:O	17:J:372:GLU:HG2	2.13	0.48
18:K:95:VAL:CG2	18:K:139:LEU:HB2	2.43	0.48
18:K:251:PRO:CG	18:K:294:ARG:HB3	2.43	0.48
18:K:281:ARG:NH1	18:K:290:ARG:HE	2.11	0.48
19:L:197:ILE:HG22	19:L:239:ILE:HD11	1.95	0.48
19:L:279:PHE:HA	19:L:324:ILE:O	2.13	0.48
19:L:379:ALA:CB	19:L:419:VAL:HG21	2.43	0.48
20:M:225:GLY:C	20:M:387:ASN:HB2	2.38	0.48
20:M:402:ALA:O	20:M:407:GLN:N	2.46	0.48
21:N:94:LYS:HG3	21:N:99:GLU:OE2	2.12	0.48
21:N:386:MET:C	21:N:390:LEU:HG	2.37	0.48
21:N:424:LYS:HA	21:N:427:ILE:HD12	1.95	0.48
21:N:784:TYR:HB2	21:N:873:ARG:NE	2.23	0.48
22:O:51:ASP:OD1	22:O:51:ASP:N	2.45	0.48
22:O:205:ILE:HB	22:O:209:GLU:CD	2.37	0.48
23:P:103:TYR:O	23:P:106:SER:C	2.57	0.48
23:P:103:TYR:CD1	23:P:106:SER:OG	2.66	0.48
23:P:151:GLY:O	23:P:153:ILE:HG13	2.13	0.48
23:P:288:ASN:CB	23:P:293:LEU:HD21	2.43	0.48
23:P:342:GLN:HE21	23:P:346:ILE:HD11	1.78	0.48
24:Q:227:CYS:HB3	24:Q:334:HIS:HE1	1.77	0.48
25:R:131:ALA:O	25:R:135:ILE:HG12	2.13	0.48
26:S:330:LEU:HB3	26:S:333:PHE:HB2	1.95	0.48
26:S:343:LEU:O	26:S:347:HIS:ND1	2.45	0.48
27:T:37:ASN:C	27:T:39:LEU:H	2.21	0.48
27:T:149:ASP:O	27:T:153:MET:N	2.28	0.48
27:T:265:ASP:HA	27:T:268:ILE:HD12	1.94	0.48
28:U:11:ALA:O	28:U:15:LEU:HG	2.13	0.48
28:U:127:GLN:HG3	29:V:208:LYS:HE3	1.95	0.48
28:U:193:GLN:HE21	29:V:296:LEU:HD11	1.77	0.48
29:V:139:VAL:HA	29:V:154:ASP:O	2.13	0.48
29:V:198:SER:OG	29:V:199:LEU:O	2.30	0.48
33:Z:284:LEU:HD13	33:Z:293:MET:SD	2.52	0.48
33:Z:440:LEU:HD22	33:Z:455:ILE:HD11	1.95	0.48
8:a:156:LYS:HZ1	8:a:175:GLN:HE22	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:69:PRO:HB2	9:b:233:PRO:HA	1.94	0.48
9:b:108:LYS:NZ	5:j:78:GLU:C	2.71	0.48
10:c:7:ASP:CG	10:c:9:ARG:H	2.20	0.48
10:c:42:ASP:OD1	10:c:42:ASP:N	2.44	0.48
10:c:231:LYS:N	10:c:234:GLU:HB2	2.28	0.48
12:e:144:ILE:CD1	12:e:158:ALA:HB2	2.42	0.48
13:f:43:HIS:CE1	13:f:184:GLY:HA2	2.45	0.48
13:f:117:GLN:HE22	14:g:130:ARG:NH2	2.11	0.48
4:i:216:LEU:HB2	4:i:219:TYR:HB2	1.94	0.48
5:j:107:PRO:HG2	5:j:124:PHE:CD2	2.47	0.48
7:l:76:THR:HA	7:l:108:LYS:NZ	2.28	0.48
4:4:49:SER:HB2	4:4:60:CYS:SG	2.53	0.48
4:4:51:GLN:N	4:4:54:ILE:O	2.45	0.48
5:5:87:PHE:O	5:5:91:VAL:HG23	2.13	0.48
8:A:25:LEU:O	8:A:28:VAL:HB	2.14	0.48
8:A:43:LEU:HD13	8:A:45:VAL:HG13	1.95	0.48
8:A:123:ASN:HD22	9:B:84:VAL:HG12	1.77	0.48
8:A:214:LEU:HD12	8:A:218:PHE:HZ	1.78	0.48
9:B:69:PRO:HB2	9:B:233:PRO:HA	1.94	0.48
9:B:160:LYS:HB3	9:B:179:TRP:CZ2	2.48	0.48
9:B:185:LEU:HD21	9:B:213:ILE:HB	1.95	0.48
9:B:227:ILE:HG22	9:B:230:ASP:H	1.78	0.48
10:C:40:ALA:N	10:C:43:GLY:O	2.46	0.48
12:E:117:CYS:HB3	12:E:162:GLY:O	2.13	0.48
12:E:213:ASP:N	12:E:216:ASN:OD1	2.33	0.48
13:F:154:THR:HA	14:G:64:ASN:OD1	2.13	0.48
14:G:5:GLY:C	14:G:8:TYR:HE2	2.21	0.48
14:G:81:LEU:HD12	14:G:84:ASP:OD2	2.13	0.48
14:G:126:TYR:H	14:G:129:VAL:CG2	2.26	0.48
15:H:145:TYR:CD1	20:M:75:LEU:HD12	2.47	0.48
15:H:208:TYR:HA	15:H:211:VAL:HG21	1.94	0.48
17:J:387:GLY:O	17:J:391:ASN:N	2.46	0.48
18:K:326:PRO:HA	18:K:329:LEU:CB	2.42	0.48
18:K:404:GLN:HE21	18:K:408:GLU:HG2	1.77	0.48
19:L:221:TYR:O	19:L:349:ILE:N	2.46	0.48
20:M:21:GLU:O	20:M:25:LEU:HG	2.13	0.48
20:M:77:TYR:CG	20:M:147:GLY:HA2	2.49	0.48
20:M:220:MET:HE1	20:M:228:LYS:O	2.13	0.48
22:O:338:LYS:HZ1	22:O:353:VAL:HB	1.79	0.48
23:P:73:ASP:O	23:P:76:ASN:HB3	2.13	0.48
23:P:104:LEU:O	23:P:107:SER:CA	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:107:SER:C	23:P:108:LYS:HG3	2.37	0.48
23:P:160:LEU:HG	23:P:183:GLN:HG3	1.95	0.48
24:Q:66:VAL:HG22	24:Q:71:LYS:HD3	1.94	0.48
24:Q:170:ASP:HB3	24:Q:172:PRO:HG2	1.96	0.48
24:Q:202:ARG:NH2	24:Q:218:LEU:HB3	2.28	0.48
24:Q:418:GLN:CA	24:Q:421:LYS:HZ1	2.25	0.48
25:R:334:ARG:HH12	25:R:368:LEU:N	2.10	0.48
27:T:7:LEU:O	27:T:10:SER:OG	2.18	0.48
29:V:257:GLU:OE1	29:V:284:ALA:HA	2.13	0.48
30:W:35:PHE:CD2	30:W:182:TYR:HB2	2.48	0.48
32:Y:84:TYR:HD1	32:Y:87:GLU:OE1	1.97	0.48
33:Z:116:ALA:O	33:Z:137:TYR:HB3	2.13	0.48
33:Z:272:TYR:O	33:Z:275:GLN:N	2.46	0.48
33:Z:445:PRO:O	33:Z:449:ALA:N	2.32	0.48
33:Z:460:SER:OG	33:Z:905:ASN:HB3	2.13	0.48
33:Z:918:ASP:HA	33:Z:973:TYR:OH	2.13	0.48
33:Z:987:PRO:HB3	33:Z:990:ARG:NH2	2.26	0.48
8:a:75:ILE:HG21	8:a:117:LEU:CD2	2.42	0.48
8:a:110:TYR:CE1	4:i:104:ARG:HD2	2.47	0.48
9:b:18:LEU:HB2	9:b:21:ILE:HD12	1.94	0.48
9:b:197:LYS:NZ	9:b:204:PHE:CD2	2.75	0.48
10:c:69:LEU:O	10:c:92:ARG:HG2	2.14	0.48
11:d:14:ASP:CG	11:d:16:HIS:CD2	2.91	0.48
13:f:121:GLN:CG	14:g:130:ARG:O	2.60	0.48
13:f:172:LEU:O	13:f:175:THR:N	2.47	0.48
4:i:67:SER:N	4:i:70:ILE:O	2.45	0.48
6:k:80:VAL:O	6:k:84:VAL:HG23	2.13	0.48
6:k:111:LYS:O	6:k:113:LYS:HG3	2.14	0.48
7:l:84:GLN:HA	7:l:221:TRP:CE2	2.49	0.48
7:l:92:ASP:OD1	7:l:108:LYS:NZ	2.45	0.48
1:1:49:ILE:HA	1:1:54:ILE:HA	1.94	0.48
1:1:145:ASP:O	1:1:148:GLY:N	2.36	0.48
1:1:167:PRO:HB2	5:5:149:MET:SD	2.53	0.48
2:2:61:GLY:HA3	2:2:72:VAL:HG21	1.95	0.48
5:5:8:ASN:OD1	5:5:56:LEU:HA	2.13	0.48
5:5:53:ILE:HG23	5:5:106:GLY:O	2.14	0.48
6:6:39:SER:HB2	6:6:74:GLU:HG3	1.94	0.48
6:6:41:HIS:O	6:6:107:TYR:N	2.36	0.48
6:6:115:GLU:HA	6:6:127:GLU:OE2	2.12	0.48
7:7:94:ARG:HG3	7:7:104:GLN:OE1	2.14	0.48
2:9:120:LEU:HD23	13:F:101:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:152:VAL:HG11	2:9:235:LYS:HA	1.94	0.48
2:9:253:ASP:CB	4:i:173:GLN:HE22	2.23	0.48
9:B:29:LYS:NZ	9:B:168:SER:OG	2.43	0.48
10:C:184:MET:CE	10:C:192:LEU:HD13	2.41	0.48
12:E:134:MET:HE1	12:E:138:PHE:CZ	2.49	0.48
13:F:63:ILE:HG21	13:F:214:ALA:HB2	1.94	0.48
13:F:65:LYS:NZ	13:F:68:GLU:CD	2.71	0.48
13:F:136:GLY:HA2	13:F:216:VAL:HG11	1.94	0.48
13:F:211:LEU:HD23	13:F:230:VAL:HB	1.94	0.48
15:H:416:GLY:HA2	15:H:419:LEU:HD12	1.95	0.48
16:I:112:ILE:HD12	16:I:143:PRO:HD3	1.96	0.48
17:J:186:ILE:CD1	17:J:297:LEU:HD21	2.43	0.48
17:J:198:LEU:CD1	17:J:316:PHE:CD2	2.96	0.48
17:J:283:GLU:OE1	17:J:283:GLU:N	2.31	0.48
18:K:243:VAL:H	19:L:256:ILE:HD13	1.78	0.48
19:L:85:GLU:HA	19:L:88:TYR:CE2	2.48	0.48
19:L:109:MET:O	19:L:142:LYS:HG3	2.13	0.48
19:L:284:ASP:HB3	20:M:293:SER:CA	2.42	0.48
20:M:201:MET:HA	20:M:319:ASP:HB2	1.94	0.48
20:M:286:ILE:O	20:M:305:MET:HB2	2.14	0.48
20:M:386:PHE:HB3	20:M:390:GLN:HB2	1.95	0.48
21:N:75:TYR:HB3	21:N:104:LYS:HG2	1.94	0.48
21:N:327:LEU:O	21:N:330:THR:HB	2.13	0.48
21:N:402:GLY:HA2	21:N:405:LEU:HD12	1.95	0.48
21:N:888:ASP:OD2	21:N:905:LEU:HD21	2.14	0.48
22:O:215:TYR:HB2	22:O:248:TYR:CE1	2.49	0.48
23:P:197:THR:C	23:P:200:SER:HG	2.20	0.48
23:P:213:TYR:CD2	23:P:216:LEU:HD12	2.48	0.48
23:P:419:VAL:HG12	23:P:423:LEU:HD11	1.94	0.48
24:Q:123:GLU:O	24:Q:126:LYS:N	2.45	0.48
25:R:422:ARG:HH21	28:U:300:LYS:HG3	1.78	0.48
27:T:170:ASN:N	27:T:174:PHE:HB3	2.29	0.48
27:T:198:ASP:O	27:T:235:PHE:HD1	1.97	0.48
27:T:200:LEU:HD12	27:T:201:PRO:HD2	1.95	0.48
27:T:213:ASN:ND2	27:T:215:LYS:HB2	2.29	0.48
28:U:37:ILE:HA	28:U:51:SER:HA	1.96	0.48
30:W:13:SER:O	30:W:17:ARG:HG2	2.13	0.48
33:Z:368:VAL:HG23	33:Z:369:PHE:N	2.27	0.48
33:Z:546:ILE:HA	33:Z:549:ASN:HB2	1.95	0.48
33:Z:925:VAL:HG23	33:Z:992:GLU:O	2.13	0.48
8:a:80:GLY:HA3	8:a:233:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:206:ALA:O	8:a:209:HIS:N	2.46	0.48
9:b:214:ILE:HA	9:b:235:PHE:HA	1.94	0.48
9:b:220:ASP:OD1	9:b:221:LEU:HG	2.14	0.48
10:c:108:VAL:HG21	10:c:139:GLY:HA3	1.96	0.48
12:e:177:GLU:OE1	12:e:177:GLU:N	2.27	0.48
12:e:180:GLN:HE21	13:f:56:LEU:HD22	1.79	0.48
14:g:46:VAL:N	14:g:219:CYS:O	2.46	0.48
14:g:135:SER:OG	14:g:153:PRO:HD3	2.13	0.48
14:g:194:LYS:HB3	14:g:242:PHE:CE1	2.49	0.48
4:i:49:SER:HB2	4:i:60:CYS:SG	2.53	0.48
6:k:37:GLN:NE2	6:k:40:PRO:HA	2.28	0.48
6:k:117:TYR:HA	6:k:127:GLU:HA	1.94	0.48
6:k:120:ASP:OD1	6:k:123:GLY:N	2.46	0.48
3:3:103:GLU:O	3:3:107:GLU:HG2	2.14	0.48
5:5:8:ASN:OD1	5:5:57:ALA:N	2.32	0.48
6:6:82:SER:N	6:6:125:LYS:NZ	2.61	0.48
7:7:84:GLN:HA	7:7:221:TRP:CE2	2.49	0.48
2:9:78:VAL:O	2:9:82:THR:HB	2.12	0.48
8:A:126:GLN:NE2	9:B:80:PRO:O	2.46	0.48
9:B:13:SER:O	10:C:24:TYR:HB3	2.13	0.48
9:B:134:LEU:O	9:B:149:GLN:HA	2.13	0.48
9:B:171:ALA:O	9:B:175:LEU:N	2.30	0.48
9:B:176:GLU:HG2	10:C:56:LEU:HD13	1.96	0.48
10:C:198:SER:N	10:C:206:LEU:HD22	2.29	0.48
11:D:10:ILE:HB	12:E:23:GLN:NE2	2.29	0.48
11:D:124:GLY:N	12:E:135:SER:HB3	2.29	0.48
13:F:12:THR:HA	14:G:23:GLN:HE22	1.78	0.48
13:F:94:TYR:O	13:F:97:LEU:HB2	2.14	0.48
13:F:134:ILE:N	13:F:145:LEU:O	2.41	0.48
14:G:51:GLU:CD	14:G:204:HIS:HD1	2.21	0.48
14:G:194:LYS:HB3	14:G:242:PHE:CE1	2.49	0.48
15:H:69:VAL:HG13	16:I:153:THR:CB	2.44	0.48
15:H:228:PRO:HB3	15:H:235:PHE:CE2	2.48	0.48
15:H:389:PHE:HB3	15:H:404:TRP:CD2	2.48	0.48
16:I:389:GLY:O	16:I:392:ILE:HB	2.14	0.48
18:K:158:ILE:HD13	18:K:253:MET:HG2	1.95	0.48
18:K:218:GLY:HA2	18:K:221:MET:HB2	1.95	0.48
18:K:370:SER:O	18:K:374:ARG:HG2	2.13	0.48
18:K:390:ALA:HB2	18:K:407:LEU:HA	1.95	0.48
19:L:219:LEU:HD11	19:L:327:THR:HG22	1.95	0.48
20:M:149:ASN:H	20:M:156:LEU:HG	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:156:LEU:HD23	20:M:156:LEU:HA	1.54	0.48
21:N:136:ILE:O	21:N:140:MET:N	2.38	0.48
21:N:217:MET:SD	21:N:244:LYS:HD2	2.53	0.48
21:N:236:GLY:O	21:N:240:GLN:HG3	2.14	0.48
21:N:371:LEU:O	21:N:374:ILE:N	2.47	0.48
21:N:715:ILE:HG23	21:N:752:SER:OG	2.13	0.48
21:N:750:SER:HA	21:N:753:PHE:CZ	2.49	0.48
22:O:23:HIS:CE1	22:O:25:LEU:HG	2.48	0.48
22:O:79:VAL:HG21	22:O:131:SER:OG	2.13	0.48
22:O:341:ILE:HB	23:P:356:TYR:O	2.13	0.48
23:P:392:LYS:NZ	24:Q:356:CYS:HB2	2.27	0.48
24:Q:8:LEU:CD1	24:Q:57:SER:HB3	2.43	0.48
24:Q:133:LEU:HD22	24:Q:136:SER:OG	2.13	0.48
24:Q:139:ILE:O	24:Q:143:THR:N	2.37	0.48
24:Q:222:SER:HB3	24:Q:226:HIS:HD2	1.79	0.48
24:Q:358:GLU:HB3	24:Q:361:HIS:CD2	2.48	0.48
25:R:255:VAL:O	25:R:258:LEU:HB3	2.14	0.48
25:R:365:ASP:HA	25:R:368:LEU:HB3	1.94	0.48
26:S:210:LEU:O	26:S:214:MET:HG2	2.13	0.48
26:S:266:SER:HA	26:S:269:GLU:OE1	2.14	0.48
26:S:401:LYS:HA	26:S:445:THR:N	2.28	0.48
27:T:29:PRO:O	27:T:33:GLU:HG2	2.14	0.48
28:U:18:ALA:O	28:U:21:HIS:HB2	2.13	0.48
29:V:25:GLU:O	29:V:200:ASN:HB2	2.13	0.48
29:V:248:ALA:O	29:V:251:TYR:HB2	2.13	0.48
30:W:16:SER:OG	30:W:115:CYS:SG	2.33	0.48
30:W:37:PHE:HA	30:W:40:LYS:HB2	1.94	0.48
30:W:144:PHE:HE1	30:W:176:PRO:HB3	1.78	0.48
30:W:180:LEU:HB2	30:W:183:GLU:CB	2.43	0.48
31:X:63:PRO:HG2	31:X:65:SER:O	2.14	0.48
31:X:83:SER:OG	31:X:84:GLY:N	2.42	0.48
33:Z:208:VAL:HG22	33:Z:232:LYS:HG2	1.94	0.48
33:Z:352:LYS:HB3	33:Z:466:GLU:CD	2.39	0.48
33:Z:611:THR:HG21	33:Z:616:LEU:HD11	1.96	0.48
11:d:116:VAL:HG12	11:d:129:PHE:CE2	2.49	0.48
11:d:176:GLU:HG2	12:e:58:LEU:HG	1.94	0.48
13:f:65:LYS:NZ	13:f:68:GLU:CD	2.71	0.48
13:f:94:TYR:O	13:f:97:LEU:HB2	2.14	0.48
14:g:71:ASP:OD2	14:g:73:HIS:CE1	2.67	0.48
14:g:86:ARG:HA	14:g:89:VAL:HB	1.96	0.48
3:h:38:ARG:C	3:h:52:LYS:NZ	2.68	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:38:ASN:OD1	4:i:39:ASN:N	2.45	0.48
4:i:99:THR:O	4:i:101:ARG:HG3	2.13	0.48
6:k:82:SER:N	6:k:125:LYS:NZ	2.61	0.48
7:l:82:ARG:CG	7:l:185:PRO:HB2	2.38	0.48
7:l:83:PHE:N	7:l:86:GLY:O	2.36	0.48
1:1:54:ILE:O	2:2:189:ARG:NH2	2.41	0.48
2:2:145:ASN:N	2:2:165:LEU:HD23	2.28	0.48
3:3:156:TYR:HB2	3:h:156:TYR:N	2.29	0.48
4:4:163:ALA:O	4:4:167:LEU:HG	2.13	0.48
4:4:216:LEU:HB2	4:4:219:TYR:HB2	1.94	0.48
5:5:27:LEU:HD11	5:5:186:VAL:HB	1.96	0.48
6:6:80:VAL:O	6:6:84:VAL:HG23	2.13	0.48
6:6:116:LEU:O	6:6:127:GLU:HG3	2.12	0.48
7:7:76:THR:HG23	7:7:108:LYS:HZ2	1.79	0.48
7:7:83:PHE:N	7:7:86:GLY:O	2.36	0.48
7:7:218:ASN:HB2	7:7:231:LEU:HD11	1.95	0.48
1:8:50:THR:N	1:8:53:SER:O	2.34	0.48
1:8:224:LEU:HG	1:8:233:LYS:HG2	1.94	0.48
2:9:90:ILE:HG22	2:9:94:GLN:HG3	1.95	0.48
2:9:161:ARG:HH11	2:9:171:SER:HB2	1.77	0.48
9:B:18:LEU:HB2	9:B:21:ILE:HD12	1.94	0.48
9:B:41:ASN:ND2	9:B:184:GLU:HG2	2.28	0.48
10:C:13:PHE:HB3	10:C:17:GLY:HA2	1.96	0.48
10:C:39:MET:HA	10:C:44:ILE:HG12	1.95	0.48
11:D:11:PHE:N	12:E:23:GLN:HE22	2.11	0.48
11:D:73:LEU:HG	11:D:134:LEU:O	2.13	0.48
12:E:244:LYS:HB2	12:E:244:LYS:NZ	2.28	0.48
13:F:158:GLY:O	14:G:58:LEU:HB3	2.13	0.48
15:H:322:GLY:CA	20:M:253:GLN:HA	2.44	0.48
15:H:406:LEU:O	15:H:409:ARG:HB2	2.13	0.48
15:H:419:LEU:O	15:H:422:VAL:HB	2.13	0.48
16:I:252:LEU:CD1	16:I:252:LEU:H	2.15	0.48
17:J:99:ALA:H	17:J:122:LEU:HB2	1.79	0.48
18:K:251:PRO:O	18:K:255:ARG:N	2.36	0.48
19:L:136:ASP:O	19:L:140:LEU:HG	2.14	0.48
19:L:282:GLU:OE1	19:L:328:ASN:N	2.47	0.48
20:M:351:LEU:HD22	20:M:387:ASN:N	2.29	0.48
21:N:207:LEU:O	21:N:210:SER:OG	2.31	0.48
21:N:759:ILE:O	21:N:761:ILE:HG12	2.13	0.48
21:N:876:PRO:O	21:N:879:SER:HB2	2.13	0.48
22:O:47:LYS:O	22:O:50:ASP:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:145:GLU:O	23:P:149:GLU:HG3	2.13	0.48
23:P:245:TYR:HE1	23:P:257:TRP:O	1.97	0.48
23:P:378:THR:O	23:P:381:SER:N	2.47	0.48
24:Q:90:LYS:NZ	24:Q:129:LYS:HE3	2.28	0.48
24:Q:400:TYR:CG	24:Q:401:GLU:N	2.80	0.48
25:R:156:LYS:O	25:R:160:LYS:HG2	2.14	0.48
25:R:345:TYR:HB3	25:R:347:THR:C	2.39	0.48
26:S:48:LEU:C	26:S:51:ARG:H	2.21	0.48
27:T:84:GLN:O	27:T:87:PRO:HD2	2.14	0.48
29:V:138:ALA:O	29:V:155:ALA:HA	2.14	0.48
31:X:78:ILE:HD11	31:X:86:ILE:O	2.13	0.48
33:Z:176:GLU:OE2	33:Z:178:SER:OG	2.32	0.48
33:Z:205:LEU:O	33:Z:209:PRO:HD2	2.12	0.48
33:Z:286:VAL:HG23	33:Z:287:ARG:HG3	1.95	0.48
33:Z:592:GLU:HA	33:Z:596:THR:HG21	1.96	0.48
33:Z:833:GLN:NE2	33:Z:836:SER:OG	2.47	0.48
8:a:63:LEU:HD11	14:g:177:GLU:HG3	1.96	0.48
9:b:200:VAL:HG21	9:b:204:PHE:CD1	2.47	0.48
10:c:13:PHE:HB3	10:c:17:GLY:HA2	1.96	0.48
10:c:64:GLU:HG2	10:c:212:GLU:OE2	2.13	0.48
10:c:94:HIS:HA	10:c:97:ASN:ND2	2.28	0.48
12:e:36:THR:OG1	12:e:174:SER:OG	2.30	0.48
14:g:54:ILE:HA	14:g:59:LEU:HD22	1.95	0.48
14:g:71:ASP:OD1	14:g:72:ARG:N	2.43	0.48
14:g:128:SER:O	14:g:130:ARG:N	2.45	0.48
14:g:178:LYS:O	14:g:181:ASP:N	2.46	0.48
4:i:33:VAL:HG22	4:i:188:ILE:HD11	1.96	0.48
5:j:107:PRO:HD2	5:j:124:PHE:HB2	1.94	0.48
1:1:47:ARG:NH2	1:1:218:GLY:HA3	2.29	0.48
1:1:68:ASN:OD1	1:1:226:VAL:HG13	2.14	0.48
2:2:45:ILE:HG22	2:2:176:ALA:HB1	1.96	0.48
3:3:184:TRP:CE2	3:h:154:TYR:HB3	2.48	0.48
7:7:86:GLY:HA3	7:7:254:HIS:NE2	2.29	0.48
7:7:94:ARG:NH1	7:7:245:TYR:C	2.71	0.48
1:8:64:ASP:OD1	1:8:65:CYS:N	2.46	0.48
1:8:197:GLU:HA	1:8:200:ILE:HB	1.95	0.48
8:A:63:LEU:HB3	14:G:162:GLY:O	2.14	0.48
8:A:242:GLU:HA	8:A:245:LEU:HB2	1.96	0.48
11:D:116:VAL:HG12	11:D:129:PHE:CE2	2.49	0.48
12:E:243:LEU:O	12:E:247:GLU:CG	2.62	0.48
14:G:224:THR:HG22	14:G:229:LYS:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:206:VAL:HG21	15:H:258:LEU:HD22	1.95	0.48
15:H:280:VAL:HG21	15:H:314:VAL:HA	1.95	0.48
15:H:328:GLU:HA	15:H:331:ARG:HB3	1.96	0.48
16:I:273:GLU:O	33:Z:791:LYS:HG2	2.13	0.48
17:J:62:LEU:HA	17:J:65:LEU:HD12	1.96	0.48
17:J:156:GLN:HE22	17:J:314:ILE:CG2	2.27	0.48
18:K:49:PHE:CE1	21:N:151:LYS:HB3	2.49	0.48
18:K:128:ARG:HG3	18:K:129:GLU:N	2.26	0.48
18:K:303:MET:O	18:K:333:ARG:NE	2.46	0.48
19:L:105:ILE:HD12	19:L:159:LEU:CD1	2.44	0.48
19:L:145:ARG:NE	19:L:161:ARG:HA	2.18	0.48
19:L:254:LYS:HA	19:L:300:GLU:OE2	2.14	0.48
19:L:393:ASN:O	19:L:397:GLU:N	2.44	0.48
20:M:267:PHE:CD1	20:M:311:GLN:HB3	2.48	0.48
20:M:373:ASP:CB	20:M:411:LYS:HB2	2.33	0.48
21:N:57:ASP:O	21:N:59:GLU:N	2.47	0.48
21:N:137:PHE:HD2	21:N:138:GLU:HG3	1.78	0.48
21:N:313:LEU:O	21:N:316:LYS:HB3	2.14	0.48
21:N:362:TRP:CE2	21:N:742:TRP:HH2	2.31	0.48
21:N:460:ILE:HG13	21:N:461:GLU:N	2.28	0.48
22:O:62:TYR:CD1	22:O:82:LEU:HD13	2.49	0.48
22:O:330:ARG:HA	22:O:333:SER:HB2	1.96	0.48
23:P:116:ILE:CA	23:P:119:ILE:HG12	2.44	0.48
23:P:123:ARG:HB3	23:P:128:ASN:N	2.29	0.48
24:Q:7:LYS:NZ	24:Q:33:LYS:CB	2.76	0.48
24:Q:34:ASP:HB3	24:Q:50:ARG:HG2	1.95	0.48
24:Q:322:GLU:HA	24:Q:325:LEU:HB3	1.96	0.48
25:R:207:ARG:HB3	25:R:211:LYS:NZ	2.27	0.48
25:R:222:ARG:C	25:R:224:PHE:N	2.72	0.48
26:S:349:THR:HA	26:S:352:VAL:HB	1.96	0.48
26:S:415:SER:OG	26:S:418:THR:OG1	2.22	0.48
27:T:99:SER:H	27:T:102:LYS:HD3	1.78	0.48
27:T:183:SER:O	27:T:186:ARG:N	2.46	0.48
27:T:252:GLU:H	27:T:256:LYS:CD	2.26	0.48
28:U:7:LYS:O	28:U:45:THR:HA	2.14	0.48
28:U:65:VAL:HG22	30:W:93:ILE:HG13	1.94	0.48
28:U:130:VAL:HG11	28:U:198:LYS:NZ	2.29	0.48
28:U:165:GLU:O	28:U:169:ILE:HG13	2.14	0.48
29:V:52:LEU:HD11	29:V:88:GLN:OE1	2.14	0.48
29:V:86:VAL:HG12	29:V:90:LYS:HE3	1.96	0.48
30:W:3:LEU:HA	30:W:47:ASN:ND2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:48:PHE:HD2	31:X:66:LEU:HB3	1.75	0.48
32:Y:85:LYS:O	32:Y:88:ASN:HB2	2.13	0.48
33:Z:550:PHE:CB	33:Z:587:THR:HG23	2.44	0.48
33:Z:834:LEU:HA	33:Z:837:TYR:HB2	1.95	0.48
8:a:91:ARG:NH2	14:g:157:TYR:O	2.35	0.48
9:b:41:ASN:ND2	9:b:184:GLU:HG2	2.29	0.48
9:b:137:ALA:HB1	9:b:214:ILE:HG12	1.94	0.48
9:b:184:GLU:HB3	9:b:187:ASP:CG	2.39	0.48
10:c:198:SER:N	10:c:206:LEU:HD22	2.29	0.48
12:e:51:GLU:CD	12:e:53:ARG:HB2	2.39	0.48
13:f:171:TYR:CD2	13:f:199:GLN:HG3	2.49	0.48
3:h:122:ASP:N	3:h:126:LYS:O	2.44	0.48
6:k:101:ASN:OD1	6:k:121:TYR:N	2.42	0.48
6:k:143:LEU:HD22	6:k:147:HIS:CE1	2.48	0.48
7:l:86:GLY:HA3	7:l:254:HIS:NE2	2.29	0.48
1:1:197:GLU:H	1:1:197:GLU:CD	2.21	0.48
2:2:97:GLU:HA	2:2:100:LEU:HD12	1.95	0.48
2:2:187:LEU:O	2:2:191:VAL:HG23	2.14	0.48
3:3:25:VAL:C	3:3:31:VAL:HG23	2.39	0.48
4:4:67:SER:N	4:4:70:ILE:O	2.45	0.48
6:6:9:VAL:HB	6:6:152:MET:O	2.13	0.48
6:6:19:LYS:CG	6:6:180:ILE:HG13	2.44	0.48
6:6:143:LEU:HD22	6:6:147:HIS:CE1	2.48	0.48
6:6:167:GLU:O	6:6:171:ARG:N	2.30	0.48
7:7:127:CYS:HB3	7:7:131:GLU:OE2	2.14	0.48
7:7:219:TYR:OH	7:7:221:TRP:HA	2.13	0.48
2:9:145:ASN:N	2:9:165:LEU:HD23	2.28	0.48
8:A:27:GLN:NE2	14:G:14:VAL:HG13	2.28	0.48
8:A:68:THR:CG2	14:G:159:GLY:HA3	2.31	0.48
8:A:127:ILE:O	8:A:130:GLN:N	2.46	0.48
9:B:220:ASP:OD1	9:B:221:LEU:HG	2.13	0.48
10:C:69:LEU:O	10:C:92:ARG:HG2	2.14	0.48
11:D:237:GLU:O	11:D:240:LYS:HB3	2.14	0.48
13:F:171:TYR:CD2	13:F:199:GLN:HG3	2.49	0.48
13:F:176:LEU:HD22	14:G:57:LYS:HE3	1.94	0.48
14:G:86:ARG:HA	14:G:89:VAL:HB	1.96	0.48
14:G:151:LEU:HD12	14:G:156:SER:C	2.39	0.48
14:G:170:GLN:NE2	14:G:173:LYS:HZ1	2.12	0.48
15:H:299:ARG:HD3	15:H:345:PRO:HD3	1.96	0.48
15:H:385:ARG:HH11	15:H:413:ASN:HA	1.77	0.48
15:H:415:THR:O	15:H:419:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:318:ASP:OD2	16:I:322:VAL:HB	2.13	0.48
17:J:29:GLU:HB3	17:J:32:LEU:HD12	1.96	0.48
18:K:69:LYS:O	18:K:73:ARG:HG3	2.13	0.48
18:K:71:GLU:OE2	21:N:608:LEU:HB3	2.13	0.48
18:K:71:GLU:HG2	18:K:75:LEU:CD1	2.44	0.48
19:L:115:GLU:H	19:L:137:ARG:HH21	1.62	0.48
19:L:189:GLN:NE2	19:L:348:GLU:O	2.46	0.48
20:M:79:VAL:HG11	20:M:145:LEU:HD22	1.96	0.48
20:M:386:PHE:HA	20:M:390:GLN:OE1	2.14	0.48
21:N:155:GLY:O	21:N:158:LEU:HB3	2.13	0.48
21:N:180:SER:O	21:N:183:VAL:HB	2.13	0.48
21:N:223:LEU:HD12	21:N:226:ASN:HD22	1.78	0.48
21:N:309:ILE:HG22	21:N:311:ILE:H	1.78	0.48
21:N:434:SER:HB3	21:N:439:VAL:HG11	1.96	0.48
23:P:306:ASN:HD22	23:P:349:ASN:N	2.12	0.48
23:P:425:HIS:CD2	28:U:232:VAL:HB	2.49	0.48
24:Q:62:GLY:HA2	24:Q:65:TYR:CD2	2.49	0.48
24:Q:70:ALA:O	24:Q:74:LEU:N	2.30	0.48
24:Q:348:CYS:O	24:Q:351:ILE:HG12	2.14	0.48
24:Q:408:THR:HA	29:V:255:ILE:CD1	2.44	0.48
25:R:154:LEU:HB2	25:R:173:THR:HG21	1.96	0.48
25:R:381:ILE:H	26:S:398:THR:HG22	1.79	0.48
25:R:381:ILE:HA	25:R:387:ILE:O	2.14	0.48
26:S:277:SER:HA	26:S:289:ALA:HA	1.94	0.48
29:V:48:GLU:HG3	29:V:110:SER:O	2.14	0.48
30:W:37:PHE:CZ	30:W:67:ALA:C	2.92	0.48
31:X:36:LYS:O	31:X:38:ASN:N	2.47	0.48
33:Z:535:VAL:HG11	33:Z:879:ALA:HB2	1.95	0.48
33:Z:925:VAL:O	33:Z:958:ASN:HA	2.14	0.48
9:b:94:HIS:NE2	4:i:93:GLU:OE1	2.23	0.48
11:d:68:ASP:N	11:d:71:VAL:O	2.30	0.48
12:e:72:ARG:HH21	12:e:225:GLN:C	2.19	0.48
12:e:79:SER:C	12:e:140:VAL:HG23	2.37	0.48
12:e:212:LEU:CD2	12:e:240:ILE:HG12	2.43	0.48
13:f:23:GLU:HA	13:f:26:LEU:HB2	1.96	0.48
14:g:126:TYR:C	14:g:129:VAL:HG22	2.39	0.48
14:g:170:GLN:CG	14:g:173:LYS:HZ2	2.22	0.48
4:i:133:ASP:OD1	4:i:136:GLY:N	2.42	0.48
5:j:27:LEU:HD11	5:j:186:VAL:HB	1.96	0.48
7:l:130:TRP:CE3	7:l:130:TRP:HA	2.49	0.48
1:1:28:GLY:HA3	1:1:49:ILE:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:57:ARG:HH22	4:4:193:TRP:C	2.22	0.48
1:1:178:GLN:HA	5:5:169:GLN:NE2	2.29	0.48
2:2:111:ASN:HD21	2:2:118:GLU:HB3	1.79	0.48
3:3:119:ALA:HA	3:3:128:GLU:O	2.13	0.48
5:5:28:ARG:CB	5:5:183:TRP:HB2	2.39	0.48
5:5:78:GLU:OE2	9:B:109:LEU:HD11	2.13	0.48
6:6:56:PHE:O	6:6:60:ILE:HG12	2.14	0.48
7:7:78:THR:O	7:7:204:VAL:N	2.29	0.48
7:7:113:ASN:OD1	7:7:115:PHE:HB2	2.12	0.48
1:8:35:ALA:HB2	1:8:141:VAL:HG23	1.96	0.48
1:8:240:ARG:HB2	4:i:193:TRP:CZ3	2.48	0.48
2:9:111:ASN:HD21	2:9:118:GLU:HB3	1.79	0.48
2:9:253:ASP:HB3	4:i:173:GLN:NE2	2.28	0.48
2:9:254:PHE:HB2	4:i:152:TYR:CE2	2.49	0.48
8:A:219:SER:HA	8:A:245:LEU:HD21	1.96	0.48
9:B:148:TYR:CD1	9:B:158:PRO:HA	2.47	0.48
10:C:108:VAL:HG21	10:C:139:GLY:HA3	1.96	0.48
11:D:180:ASP:CG	11:D:183:GLU:H	2.15	0.48
14:G:12:ASN:O	14:G:21:ASN:ND2	2.47	0.48
15:H:170:GLU:N	15:H:174:VAL:HG22	2.29	0.48
15:H:276:GLY:HA2	15:H:279:LEU:HD12	1.95	0.48
16:I:105:SER:HA	17:J:94:TYR:HD1	1.78	0.48
16:I:259:ASP:HA	16:I:262:ARG:HB3	1.96	0.48
17:J:75:VAL:HB	17:J:111:GLN:HB3	1.94	0.48
17:J:198:LEU:HD21	17:J:316:PHE:CE2	2.48	0.48
18:K:74:HIS:C	18:K:78:GLU:HG2	2.38	0.48
18:K:243:VAL:N	19:L:256:ILE:HD13	2.28	0.48
19:L:105:ILE:HG13	20:M:118:VAL:CG1	2.44	0.48
19:L:251:ILE:HG23	19:L:262:ILE:HB	1.96	0.48
20:M:78:LEU:CG	20:M:150:LYS:HE2	2.42	0.48
21:N:18:ASP:OD1	21:N:21:LYS:HD2	2.14	0.48
21:N:33:ASP:C	26:S:215:MET:HG2	2.39	0.48
21:N:89:PHE:CE1	21:N:98:VAL:HG13	2.47	0.48
21:N:163:LEU:HD22	21:N:209:LYS:HE3	1.95	0.48
21:N:187:ASN:O	21:N:191:THR:N	2.40	0.48
21:N:213:PHE:HA	21:N:216:ASN:ND2	2.29	0.48
21:N:361:ASN:HB3	21:N:399:PHE:HD2	1.71	0.48
22:O:29:PHE:O	22:O:32:PHE:HB3	2.13	0.48
22:O:164:PRO:O	22:O:167:ILE:HG22	2.14	0.48
22:O:189:TYR:CE1	22:O:217:LEU:HG	2.49	0.48
22:O:220:SER:HA	22:O:223:LEU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:326:HIS:O	22:O:330:ARG:HG2	2.14	0.48
23:P:98:GLN:CD	23:P:135:GLU:HB3	2.39	0.48
23:P:256:LYS:O	23:P:259:PRO:HD2	2.14	0.48
23:P:283:LYS:HB2	23:P:286:ASN:CB	2.44	0.48
23:P:292:LYS:HD2	23:P:295:SER:OG	2.14	0.48
23:P:299:LEU:HA	23:P:302:LEU:HB2	1.95	0.48
23:P:360:ILE:HG21	23:P:365:LEU:HD21	1.96	0.48
25:R:37:LYS:HG3	25:R:38:VAL:N	2.28	0.48
25:R:134:TRP:O	25:R:137:LEU:HB3	2.14	0.48
25:R:259:PHE:CD1	25:R:333:MET:HG2	2.48	0.48
25:R:296:LEU:HB2	25:R:304:TYR:CD1	2.49	0.48
25:R:372:ILE:CG1	26:S:395:ILE:HG22	2.41	0.48
26:S:401:LYS:HA	26:S:444:GLU:HA	1.95	0.48
29:V:50:MET:HG3	29:V:109:HIS:HE1	1.78	0.48
29:V:86:VAL:CG1	29:V:90:LYS:HE3	2.43	0.48
30:W:170:HIS:CG	30:W:171:LEU:N	2.82	0.48
31:X:48:PHE:CD2	31:X:99:PHE:HZ	2.31	0.48
33:Z:390:LEU:HD23	33:Z:391:ASN:HD21	1.78	0.48
8:a:25:LEU:O	8:a:28:VAL:HB	2.14	0.48
9:b:1:MET:HG2	9:b:2:THR:N	2.23	0.48
9:b:124:SER:HB2	9:b:127:VAL:HG21	1.94	0.48
9:b:160:LYS:HB3	9:b:179:TRP:CZ2	2.48	0.48
13:f:166:GLN:CD	13:f:170:THR:HG1	2.18	0.48
14:g:238:GLU:O	14:g:242:PHE:N	2.37	0.48
3:h:81:HIS:O	3:h:85:TYR:N	2.23	0.48
3:h:109:LYS:HG3	3:h:110:ASP:OD1	2.14	0.48
3:h:119:ALA:HA	3:h:128:GLU:O	2.13	0.48
3:h:209:PRO:HA	3:h:212:TYR:CZ	2.48	0.48
4:i:30:THR:N	4:i:158:SER:OG	2.47	0.48
4:i:81:THR:O	4:i:85:THR:OG1	2.22	0.48
4:i:219:TYR:CD2	4:i:220:LEU:HG	2.49	0.48
5:j:189:ILE:CG1	5:j:198:ARG:NH1	2.76	0.48
6:k:9:VAL:HB	6:k:152:MET:O	2.14	0.48
7:l:219:TYR:OH	7:l:221:TRP:HA	2.13	0.48
1:1:171:ASN:HB2	5:5:173:ASN:CG	2.39	0.48
1:1:179:TYR:CD1	1:1:185:GLY:HA2	2.49	0.48
5:5:23:ILE:HG22	5:5:188:TYR:HB2	1.96	0.48
5:5:85:GLU:O	5:5:88:THR:HB	2.14	0.48
6:6:111:LYS:O	6:6:113:LYS:HG3	2.14	0.48
2:9:107:ASN:HD22	2:9:120:LEU:HG	1.78	0.48
8:A:207:ILE:CD1	8:A:244:ARG:HB3	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:8:LEU:HD12	11:D:126:VAL:C	2.38	0.48
11:D:171:VAL:CG2	11:D:198:SER:HB2	2.36	0.48
12:E:40:ILE:HG12	12:E:169:ALA:CB	2.43	0.48
12:E:51:GLU:CD	12:E:53:ARG:HB2	2.39	0.48
12:E:153:TYR:OH	12:E:224:LYS:N	2.31	0.48
12:E:203:ILE:HA	12:E:206:GLN:OE1	2.14	0.48
13:F:85:SER:O	13:F:89:ARG:N	2.27	0.48
13:F:136:GLY:N	13:F:143:HIS:O	2.44	0.48
14:G:49:ALA:HA	14:G:216:ILE:HA	1.96	0.48
14:G:140:GLY:O	14:G:147:HIS:N	2.45	0.48
15:H:55:ASP:HA	16:I:99:ILE:HD11	1.95	0.48
15:H:145:TYR:C	15:H:168:ILE:HG22	2.38	0.48
15:H:184:GLU:H	15:H:184:GLU:CD	2.21	0.48
15:H:289:ARG:O	15:H:292:ARG:HB2	2.14	0.48
15:H:322:GLY:HA2	20:M:253:GLN:CD	2.39	0.48
15:H:330:GLN:HG3	15:H:334:LEU:HG	1.94	0.48
16:I:93:LYS:O	16:I:96:LEU:HB3	2.14	0.48
16:I:115:ASP:C	16:I:117:HIS:H	2.22	0.48
17:J:76:ILE:H	17:J:86:VAL:HA	1.79	0.48
17:J:160:ILE:CG2	17:J:202:VAL:HG21	2.44	0.48
17:J:319:PRO:O	17:J:320:SER:HB3	2.14	0.48
17:J:331:HIS:HD2	17:J:358:VAL:CG1	2.27	0.48
17:J:369:ALA:HB1	17:J:374:ARG:HB2	1.95	0.48
17:J:386:VAL:O	17:J:390:MET:N	2.23	0.48
18:K:75:LEU:HA	18:K:78:GLU:HB2	1.95	0.48
21:N:6:ALA:O	21:N:10:LEU:HG	2.14	0.48
21:N:55:PHE:CZ	21:N:57:ASP:HB2	2.49	0.48
21:N:138:GLU:O	21:N:142:GLU:HG3	2.13	0.48
21:N:183:VAL:O	21:N:186:ILE:HB	2.12	0.48
21:N:302:PHE:CD1	21:N:757:THR:HA	2.49	0.48
21:N:612:SER:OG	21:N:618:ARG:HG3	2.13	0.48
21:N:630:ALA:O	21:N:663:ILE:HA	2.14	0.48
21:N:861:TYR:HB2	21:N:881:TYR:CE1	2.48	0.48
22:O:228:TYR:C	22:O:230:PHE:HD2	2.22	0.48
22:O:232:GLU:C	22:O:234:LEU:N	2.71	0.48
22:O:301:PHE:CE2	22:O:308:LEU:N	2.82	0.48
22:O:309:SER:HA	22:O:310:PHE:HA	1.61	0.48
23:P:133:GLU:CG	23:P:137:ALA:HB2	2.44	0.48
23:P:184:MET:O	23:P:187:SER:HB2	2.14	0.48
23:P:315:GLN:OE1	23:P:338:TRP:HD1	1.97	0.48
24:Q:2:SER:N	24:Q:7:LYS:HG3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:158:LEU:HD12	25:R:161:ALA:HB3	1.96	0.48
25:R:178:GLY:CA	25:R:187:VAL:HG21	2.44	0.48
25:R:276:LEU:O	25:R:280:ILE:N	2.45	0.48
26:S:156:VAL:HG22	26:S:188:TYR:HE1	1.78	0.48
26:S:181:ALA:HA	26:S:184:TRP:CD2	2.49	0.48
26:S:273:PHE:CA	26:S:276:LEU:HB3	2.42	0.48
26:S:282:ILE:O	26:S:284:LEU:HG	2.14	0.48
26:S:333:PHE:O	26:S:342:LEU:HD22	2.14	0.48
26:S:425:ARG:HD2	27:T:156:SER:HB2	1.96	0.48
27:T:262:LYS:O	27:T:266:TYR:N	2.47	0.48
28:U:104:LEU:HA	28:U:107:ASN:ND2	2.28	0.48
33:Z:104:ASP:O	33:Z:106:TRP:HD1	1.97	0.48
33:Z:393:GLY:HA2	33:Z:427:GLN:HB3	1.96	0.48
33:Z:794:ASP:CG	33:Z:829:GLN:HB3	2.39	0.48
8:a:43:LEU:HD13	8:a:45:VAL:HG13	1.95	0.48
8:a:71:TYR:O	8:a:83:VAL:N	2.39	0.48
8:a:110:TYR:CG	4:i:104:ARG:NH1	2.82	0.48
8:a:127:ILE:O	8:a:130:GLN:N	2.46	0.48
9:b:181:ASP:OD1	9:b:182:GLU:N	2.47	0.48
11:d:117:GLN:O	11:d:121:THR:HG23	2.13	0.48
12:e:117:CYS:HB3	12:e:162:GLY:O	2.14	0.48
12:e:192:THR:H	12:e:195:GLU:CD	2.15	0.48
12:e:203:ILE:HA	12:e:206:GLN:OE1	2.14	0.48
13:f:140:SER:HG	13:f:143:HIS:CD2	2.28	0.48
14:g:5:GLY:C	14:g:8:TYR:HE2	2.21	0.48
14:g:45:GLY:HA3	14:g:219:CYS:O	2.13	0.48
6:k:148:TYR:OH	6:k:150:PRO:HA	2.14	0.48
7:l:163:TYR:CE1	7:l:166:LYS:HD3	2.48	0.48
1:1:35:ALA:HB2	1:1:141:VAL:HG23	1.96	0.47
1:1:130:ILE:HG12	1:1:142:TYR:HB2	1.96	0.47
1:1:181:PRO:HA	4:4:237:GLY:CA	2.44	0.47
1:1:209:SER:O	1:1:212:GLU:HB2	2.14	0.47
2:2:81:ASN:HB2	2:2:152:VAL:O	2.13	0.47
3:3:25:VAL:HA	3:3:143:TYR:HA	1.95	0.47
3:3:147:GLY:O	3:3:150:SER:OG	2.30	0.47
4:4:30:THR:HA	4:4:46:ASP:OD2	2.13	0.47
4:4:101:ARG:HH22	8:A:115:ASP:CG	2.22	0.47
4:4:225:ARG:NH1	5:5:151:GLU:O	2.40	0.47
4:4:230:LYS:NZ	4:4:232:TYR:CD1	2.75	0.47
5:5:143:SER:O	5:5:146:LEU:HB2	2.14	0.47
7:7:88:ILE:HD13	7:7:254:HIS:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:138:CYS:O	7:7:142:GLU:N	2.29	0.47
7:7:180:THR:N	7:7:184:GLY:O	2.46	0.47
1:8:179:TYR:CD1	1:8:185:GLY:HA2	2.49	0.47
1:8:209:SER:O	1:8:212:GLU:HB2	2.14	0.47
2:9:187:LEU:O	2:9:191:VAL:HG23	2.14	0.47
2:9:214:MET:HG3	2:9:228:PHE:CE2	2.49	0.47
2:9:219:TYR:CD2	4:i:168:GLU:HB3	2.49	0.47
8:A:91:ARG:HB3	14:G:118:GLN:NE2	2.28	0.47
8:A:157:THR:HG22	8:A:163:TYR:HB3	1.96	0.47
9:B:133:SER:OG	9:B:152:PRO:HD3	2.14	0.47
10:C:149:TYR:CZ	11:D:59:ILE:HB	2.49	0.47
10:C:240:VAL:HA	10:C:245:THR:CA	2.42	0.47
11:D:12:SER:N	11:D:16:HIS:O	2.40	0.47
11:D:13:PRO:HA	12:E:26:TYR:CZ	2.50	0.47
14:G:181:ASP:O	14:G:184:PRO:HD3	2.14	0.47
15:H:104:LYS:HG2	20:M:150:LYS:HD3	1.96	0.47
15:H:292:ARG:HG2	15:H:339:GLN:NE2	2.29	0.47
15:H:311:ILE:CG1	15:H:355:THR:HB	2.43	0.47
15:H:331:ARG:NH1	15:H:335:GLU:HB2	2.29	0.47
16:I:133:LEU:HB2	16:I:157:VAL:O	2.13	0.47
16:I:149:LEU:HD13	16:I:154:MET:HB3	1.96	0.47
16:I:176:SER:HA	16:I:241:SER:HA	1.96	0.47
16:I:184:ILE:HD11	16:I:191:ILE:HD11	1.96	0.47
16:I:243:THR:HG22	16:I:245:LEU:HD21	1.96	0.47
16:I:369:MET:HE2	16:I:397:THR:HA	1.96	0.47
17:J:349:LYS:C	17:J:386:VAL:HG11	2.39	0.47
18:K:52:LYS:HG3	21:N:155:GLY:HA3	1.96	0.47
18:K:174:VAL:HG21	18:K:218:GLY:HA3	1.96	0.47
18:K:281:ARG:HA	18:K:285:GLN:HG3	1.96	0.47
18:K:285:GLN:HB3	18:K:289:ASP:OD2	2.14	0.47
19:L:115:GLU:HG3	19:L:116:LYS:N	2.28	0.47
19:L:132:ARG:NH2	19:L:156:MET:O	2.46	0.47
19:L:360:ILE:HG23	19:L:364:HIS:ND1	2.29	0.47
19:L:374:PHE:CE2	19:L:415:LEU:HB2	2.49	0.47
20:M:267:PHE:CE1	20:M:311:GLN:HB3	2.49	0.47
21:N:4:THR:OG1	27:T:44:LEU:HD21	2.14	0.47
21:N:29:ASN:HB2	21:N:64:ILE:HD11	1.96	0.47
21:N:60:MET:N	21:N:88:ARG:HG3	2.29	0.47
21:N:194:ILE:HA	21:N:203:ARG:HH11	1.78	0.47
21:N:238:ALA:O	21:N:241:LEU:HB3	2.14	0.47
21:N:496:GLU:HA	21:N:499:HIS:ND1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:526:TYR:C	21:N:528:ARG:H	2.21	0.47
21:N:535:LEU:HD12	21:N:538:LYS:HB2	1.96	0.47
21:N:658:ILE:O	21:N:662:MET:HG3	2.14	0.47
21:N:861:TYR:CZ	21:N:863:SER:HB2	2.49	0.47
22:O:57:LEU:C	22:O:59:LEU:N	2.69	0.47
22:O:284:GLU:HA	22:O:287:LEU:HD12	1.96	0.47
22:O:331:ALA:HB1	22:O:337:LEU:HB2	1.96	0.47
22:O:340:SER:N	22:O:349:THR:O	2.45	0.47
24:Q:114:GLN:O	24:Q:118:CYS:N	2.21	0.47
24:Q:248:ASN:O	24:Q:250:THR:HG22	2.14	0.47
25:R:63:TYR:CE2	25:R:94:PHE:CE1	3.02	0.47
25:R:130:GLN:NE2	25:R:160:LYS:HE3	2.29	0.47
25:R:209:ARG:HG2	25:R:238:PHE:CE2	2.49	0.47
25:R:289:ILE:HG13	25:R:290:SER:N	2.24	0.47
25:R:381:ILE:O	26:S:399:TYR:N	2.47	0.47
26:S:382:ARG:O	27:T:154:GLU:OE2	2.32	0.47
27:T:80:ASN:O	27:T:83:ASN:HB2	2.13	0.47
28:U:55:PRO:HB2	28:U:72:TYR:OH	2.14	0.47
31:X:10:PHE:HB3	31:X:87:PHE:CZ	2.49	0.47
33:Z:135:LEU:O	33:Z:138:ARG:N	2.46	0.47
33:Z:366:LYS:CD	33:Z:859:LYS:HG3	2.44	0.47
33:Z:490:ILE:HG23	33:Z:529:ALA:HB2	1.94	0.47
33:Z:550:PHE:HZ	33:Z:591:ILE:HG12	1.78	0.47
33:Z:560:THR:O	33:Z:563:VAL:HB	2.14	0.47
11:d:106:VAL:HG12	11:d:148:TYR:HD2	1.79	0.47
11:d:237:GLU:O	11:d:240:LYS:HB3	2.14	0.47
13:f:96:SER:O	13:f:100:ASN:HA	2.14	0.47
14:g:56:SER:N	14:g:59:LEU:HD13	2.29	0.47
5:j:53:ILE:HG23	5:j:106:GLY:O	2.14	0.47
7:l:88:ILE:HD13	7:l:254:HIS:HA	1.96	0.47
7:l:111:GLU:HG2	7:l:117:LEU:CD2	2.44	0.47
7:l:151:VAL:HG12	7:l:188:TYR:HD2	1.78	0.47
7:l:179:TYR:O	7:l:257:GLU:HA	2.14	0.47
2:2:107:ASN:HD22	2:2:120:LEU:HG	1.78	0.47
2:2:179:PHE:CE1	3:3:44:TYR:HD1	2.32	0.47
3:3:138:VAL:H	2:9:94:GLN:CD	2.20	0.47
4:4:70:ILE:C	4:4:71:TRP:CD1	2.92	0.47
4:4:101:ARG:NH2	8:A:115:ASP:OD1	2.47	0.47
4:4:219:TYR:CD2	4:4:220:LEU:HG	2.49	0.47
5:5:10:GLY:HA3	5:5:42:LYS:CE	2.33	0.47
5:5:148:GLY:O	5:5:152:SER:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:179:TYR:O	7:7:257:GLU:HA	2.14	0.47
2:9:97:GLU:HA	2:9:100:LEU:HD12	1.95	0.47
8:A:135:ARG:NE	14:G:125:LEU:HA	2.28	0.47
8:A:199:TRP:O	8:A:203:VAL:HG23	2.14	0.47
8:A:219:SER:H	8:A:222:ASP:CG	2.16	0.47
8:A:243:GLU:CG	8:A:244:ARG:NH1	2.77	0.47
14:G:71:ASP:OD2	14:G:73:HIS:CE1	2.67	0.47
14:G:102:LEU:HD23	14:G:103:TYR:CE2	2.49	0.47
15:H:176:VAL:HG22	15:H:181:TYR:H	1.78	0.47
16:I:118:ALA:HB3	16:I:156:ILE:HD11	1.95	0.47
17:J:387:GLY:HA2	17:J:390:MET:HB2	1.96	0.47
18:K:349:ARG:O	18:K:353:PHE:N	2.27	0.47
19:L:220:LEU:HD22	19:L:349:ILE:HD11	1.97	0.47
20:M:13:PRO:HB2	30:W:34:GLU:OE1	2.14	0.47
20:M:257:GLY:O	20:M:260:ALA:HB3	2.14	0.47
20:M:260:ALA:O	20:M:264:ARG:HG3	2.13	0.47
21:N:50:TYR:O	21:N:58:ARG:HD2	2.14	0.47
21:N:70:TYR:HA	21:N:75:TYR:CE1	2.44	0.47
21:N:93:GLU:O	21:N:98:VAL:HG11	2.13	0.47
21:N:180:SER:O	21:N:184:LYS:HG3	2.15	0.47
21:N:227:LYS:HE2	21:N:231:ASN:HD21	1.79	0.47
21:N:245:LEU:O	21:N:248:GLU:N	2.47	0.47
21:N:434:SER:CB	21:N:439:VAL:HG11	2.44	0.47
22:O:4:ASN:HB2	22:O:30:GLU:CD	2.38	0.47
22:O:76:LEU:O	22:O:78:VAL:HG23	2.14	0.47
22:O:171:PHE:O	22:O:174:THR:HB	2.14	0.47
23:P:62:ILE:O	23:P:66:LEU:HG	2.14	0.47
23:P:126:THR:HG22	23:P:140:THR:HA	1.96	0.47
23:P:131:PHE:CZ	23:P:168:TYR:HA	2.48	0.47
23:P:419:VAL:HG12	23:P:423:LEU:CD1	2.45	0.47
24:Q:344:GLU:OE2	24:Q:376:LYS:HE2	2.13	0.47
24:Q:346:ASN:O	24:Q:350:ILE:HG13	2.15	0.47
25:R:149:ASN:HA	25:R:152:LYS:HE2	1.96	0.47
25:R:220:ALA:HA	25:R:221:VAL:HA	1.53	0.47
25:R:319:CYS:HB2	25:R:322:LEU:HB2	1.95	0.47
26:S:51:ARG:C	26:S:53:ILE:N	2.73	0.47
26:S:170:TYR:HE1	26:S:174:ARG:HD3	1.79	0.47
26:S:410:LYS:NZ	26:S:413:LEU:HD23	2.29	0.47
27:T:94:HIS:CE1	27:T:97:SER:O	2.67	0.47
27:T:181:LEU:HA	27:T:184:ALA:HB3	1.95	0.47
27:T:202:LEU:H	27:T:231:SER:C	2.19	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:215:LYS:HA	27:T:218:GLU:HB2	1.97	0.47
28:U:14:VAL:HG13	28:U:51:SER:OG	2.14	0.47
28:U:43:SER:HB2	28:U:45:THR:O	2.14	0.47
28:U:55:PRO:HG2	29:V:97:GLN:HB3	1.96	0.47
29:V:259:LYS:O	29:V:263:GLU:HG3	2.14	0.47
30:W:107:HIS:HE1	30:W:138:ALA:N	2.12	0.47
30:W:144:PHE:HB2	30:W:174:VAL:HB	1.95	0.47
33:Z:138:ARG:NH1	33:Z:206:ASP:CG	2.71	0.47
33:Z:144:SER:N	33:Z:206:ASP:OD1	2.33	0.47
33:Z:459:ALA:HB3	33:Z:471:LEU:HB2	1.95	0.47
33:Z:780:MET:HE1	33:Z:789:GLN:H	1.79	0.47
33:Z:805:LEU:O	33:Z:808:SER:HB3	2.14	0.47
8:a:87:ILE:N	8:a:88:PRO:HD2	2.30	0.47
9:b:133:SER:OG	9:b:152:PRO:HD3	2.14	0.47
10:c:19:LEU:HB2	10:c:22:VAL:HB	1.96	0.47
11:d:6:ARG:O	11:d:125:GLY:N	2.41	0.47
13:f:110:HIS:ND1	14:g:86:ARG:NH1	2.61	0.47
14:g:181:ASP:O	14:g:184:PRO:HD3	2.14	0.47
3:h:25:VAL:C	3:h:31:VAL:HG23	2.39	0.47
3:h:91:THR:HG22	3:h:92:PRO:O	2.14	0.47
3:h:166:SER:H	3:h:169:GLU:CD	2.20	0.47
6:k:183:ILE:O	6:k:189:ILE:HA	2.14	0.47
7:l:94:ARG:HG3	7:l:104:GLN:OE1	2.14	0.47
1:1:95:HIS:CB	1:1:100:ASP:HA	2.44	0.47
1:1:95:HIS:HB3	1:1:100:ASP:HA	1.95	0.47
1:1:117:TYR:CD2	7:l:129:PHE:CZ	3.02	0.47
3:3:21:SER:HG	3:3:149:GLY:N	2.11	0.47
3:3:33:LEU:HD11	3:3:119:ALA:HB3	1.97	0.47
3:3:96:THR:O	3:3:99:SER:HB3	2.14	0.47
4:4:30:THR:N	4:4:158:SER:OG	2.47	0.47
4:4:132:VAL:HG12	4:4:137:SER:HB3	1.96	0.47
6:6:143:LEU:HB2	6:6:164:CYS:SG	2.54	0.47
7:7:111:GLU:HG2	7:7:117:LEU:CD2	2.44	0.47
1:8:47:ARG:NH2	1:8:218:GLY:HA3	2.29	0.47
1:8:96:PHE:CD2	13:F:89:ARG:HD3	2.49	0.47
2:9:252:TRP:CE3	3:h:191:VAL:HG13	2.49	0.47
9:B:8:SER:H	10:C:128:LEU:HA	1.79	0.47
9:B:42:GLY:HA2	9:B:145:PHE:CE1	2.50	0.47
9:B:191:ILE:O	9:B:194:LEU:HB2	2.14	0.47
10:C:148:LEU:HB3	10:C:160:TRP:O	2.14	0.47
11:D:81:ASP:OD2	11:D:130:GLY:N	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:33:LEU:O	12:E:53:ARG:NH1	2.35	0.47
13:F:172:LEU:O	13:F:175:THR:N	2.46	0.47
14:G:170:GLN:HG3	14:G:173:LYS:HD2	1.96	0.47
16:I:349:LEU:O	16:I:349:LEU:HD12	2.14	0.47
17:J:31:GLU:HG3	18:K:55:GLU:OE1	2.14	0.47
18:K:80:LYS:O	18:K:84:GLU:HG3	2.15	0.47
18:K:99:PHE:CD1	18:K:110:VAL:HG12	2.49	0.47
18:K:137:VAL:HB	18:K:146:LEU:CD1	2.44	0.47
18:K:171:TYR:HB2	18:K:181:LYS:CD	2.36	0.47
18:K:215:PRO:C	18:K:217:THR:H	2.21	0.47
19:L:121:ALA:HB3	19:L:124:GLY:C	2.39	0.47
20:M:256:ILE:HG23	20:M:299:ARG:HD2	1.95	0.47
20:M:264:ARG:HG2	20:M:311:GLN:NE2	2.29	0.47
21:N:62:ALA:C	21:N:81:TYR:HB3	2.40	0.47
21:N:270:LEU:O	21:N:274:VAL:HG23	2.15	0.47
21:N:339:MET:HG2	21:N:707:ASN:HB3	1.95	0.47
21:N:466:LEU:HD13	21:N:481:ALA:HA	1.96	0.47
21:N:536:ILE:O	21:N:540:LEU:HG	2.14	0.47
23:P:60:ALA:HB1	23:P:96:MET:SD	2.54	0.47
23:P:119:ILE:HG23	23:P:126:THR:CG2	2.45	0.47
23:P:162:GLU:N	23:P:162:GLU:OE1	2.46	0.47
23:P:298:SER:O	23:P:302:LEU:HG	2.13	0.47
24:Q:7:LYS:HZ3	24:Q:34:ASP:HB2	1.72	0.47
24:Q:130:ARG:HG3	24:Q:132:PHE:HB3	1.97	0.47
24:Q:362:ILE:O	24:Q:366:ILE:HG22	2.14	0.47
24:Q:414:GLU:O	24:Q:418:GLN:N	2.38	0.47
25:R:292:LEU:CB	25:R:307:TYR:HB3	2.44	0.47
25:R:417:TYR:OH	28:U:293:GLU:HB2	2.14	0.47
26:S:233:LEU:O	26:S:236:LEU:HB3	2.15	0.47
27:T:111:LEU:HB3	27:T:174:PHE:CZ	2.48	0.47
28:U:13:LEU:HD11	29:V:36:LYS:HB2	1.96	0.47
28:U:108:GLU:HA	28:U:111:LYS:HG3	1.96	0.47
28:U:141:GLU:C	28:U:153:THR:N	2.72	0.47
28:U:206:ASP:HA	28:U:209:GLU:OE1	2.13	0.47
30:W:2:VAL:O	30:W:44:ASN:ND2	2.27	0.47
31:X:85:ARG:N	31:X:101:LEU:HD22	2.30	0.47
33:Z:321:PHE:HE1	33:Z:331:GLY:HA2	1.79	0.47
33:Z:518:LEU:HB2	33:Z:524:ALA:CB	2.45	0.47
33:Z:792:VAL:HG12	33:Z:796:LEU:HG	1.96	0.47
9:b:227:ILE:HG22	9:b:230:ASP:H	1.78	0.47
10:c:77:VAL:HA	10:c:135:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:140:TYR:CD2	10:c:225:VAL:HG21	2.49	0.47
11:d:8:LEU:HD12	11:d:126:VAL:C	2.38	0.47
13:f:28:ALA:O	13:f:31:GLN:HB3	2.15	0.47
13:f:87:TYR:O	13:f:91:GLN:NE2	2.28	0.47
14:g:12:ASN:ND2	14:g:129:VAL:O	2.48	0.47
3:h:103:GLU:O	3:h:107:GLU:HG2	2.14	0.47
4:i:126:TYR:HE1	4:i:143:HIS:HB3	1.80	0.47
5:j:23:ILE:HG22	5:j:188:TYR:HB2	1.96	0.47
5:j:143:SER:O	5:j:146:LEU:HB2	2.14	0.47
5:j:169:GLN:C	5:j:173:ASN:HD22	2.22	0.47
6:k:140:THR:HG22	6:k:164:CYS:HB3	1.96	0.47
6:k:165:VAL:O	6:k:169:GLU:HG3	2.14	0.47
7:l:139:ARG:CZ	7:l:143:LEU:HD21	2.44	0.47
1:1:74:ASN:N	1:1:127:HIS:O	2.44	0.47
2:2:180:GLY:HA2	2:2:217:LEU:HD21	1.95	0.47
6:6:101:ASN:HB3	6:6:133:HIS:CE1	2.49	0.47
6:6:132:ALA:HB1	6:6:136:SER:HB2	1.96	0.47
6:6:146:HIS:CG	7:l:279:GLU:OE2	2.67	0.47
1:8:37:GLU:N	1:8:193:TYR:OH	2.41	0.47
1:8:95:HIS:CB	1:8:100:ASP:HA	2.44	0.47
8:A:15:HIS:O	14:G:14:VAL:HG22	2.14	0.47
8:A:80:GLY:HA3	8:A:233:PHE:CE2	2.48	0.47
8:A:135:ARG:HD3	14:G:13:SER:HB2	1.96	0.47
9:B:7:PHE:O	9:B:125:GLY:HA2	2.14	0.47
9:B:118:MET:HE3	9:B:130:PHE:HB2	1.97	0.47
12:E:16:SER:HA	12:E:22:PHE:CZ	2.49	0.47
12:E:16:SER:O	12:E:19:GLY:N	2.44	0.47
12:E:222:ILE:HG13	12:E:227:GLY:C	2.40	0.47
14:G:123:HIS:HB3	14:G:130:ARG:O	2.15	0.47
14:G:219:CYS:HA	14:G:227:LEU:O	2.15	0.47
15:H:210:ASP:OD1	15:H:388:ILE:HG23	2.15	0.47
15:H:223:GLU:OE2	15:H:235:PHE:CE1	2.67	0.47
15:H:264:ALA:HB1	15:H:271:PHE:HB2	1.97	0.47
15:H:396:MET:HE3	15:H:427:GLY:N	2.29	0.47
15:H:439:THR:O	15:H:442:ASP:HB2	2.14	0.47
17:J:82:LYS:HG2	17:J:104:VAL:HG11	1.96	0.47
17:J:83:LYS:HA	17:J:97:ASP:HA	1.95	0.47
17:J:257:ARG:HH12	17:J:296:ARG:HH11	1.62	0.47
18:K:234:PHE:CE2	18:K:236:ARG:HB2	2.49	0.47
19:L:279:PHE:CZ	19:L:326:ALA:HB2	2.49	0.47
20:M:220:MET:HE3	20:M:324:LEU:CD2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:332:VAL:HG23	20:M:337:LEU:HD11	1.97	0.47
21:N:4:THR:HA	26:S:208:ILE:HD13	1.95	0.47
21:N:6:ALA:O	21:N:9:LEU:N	2.46	0.47
21:N:139:ARG:HA	21:N:142:GLU:OE1	2.14	0.47
21:N:362:TRP:CD1	29:V:165:ILE:C	2.92	0.47
21:N:397:SER:HB3	21:N:400:ILE:HG13	1.95	0.47
21:N:650:ASP:HA	21:N:653:ARG:HG2	1.96	0.47
21:N:897:LYS:HZ3	21:N:899:ASN:ND2	2.12	0.47
22:O:5:HIS:CE1	22:O:30:GLU:HB3	2.49	0.47
22:O:94:GLU:O	22:O:97:LYS:HB2	2.14	0.47
23:P:245:TYR:OH	23:P:261:LEU:HB2	2.14	0.47
23:P:427:GLU:OE1	23:P:427:GLU:HA	2.15	0.47
24:Q:99:THR:O	24:Q:103:LYS:N	2.43	0.47
24:Q:186:HIS:C	24:Q:189:ARG:H	2.23	0.47
24:Q:230:LYS:N	24:Q:230:LYS:HD2	2.30	0.47
25:R:308:LEU:O	25:R:312:TYR:N	2.33	0.47
26:S:21:SER:C	26:S:22:GLU:CG	2.86	0.47
26:S:186:TYR:O	26:S:189:LEU:HB3	2.14	0.47
26:S:311:GLN:O	26:S:315:LYS:HG3	2.14	0.47
28:U:294:ASN:O	28:U:298:ASN:ND2	2.47	0.47
29:V:260:GLU:HA	29:V:263:GLU:OE1	2.14	0.47
29:V:262:THR:OG1	29:V:263:GLU:N	2.47	0.47
31:X:11:ARG:O	31:X:85:ARG:NH2	2.47	0.47
33:Z:259:PRO:HA	33:Z:612:GLY:CA	2.44	0.47
33:Z:291:GLU:HG3	33:Z:295:ARG:HG3	1.97	0.47
33:Z:363:ASP:HA	33:Z:366:LYS:CG	2.44	0.47
33:Z:379:GLN:OE1	33:Z:845:LEU:HG	2.14	0.47
33:Z:384:SER:HB3	33:Z:407:VAL:HG22	1.96	0.47
33:Z:407:VAL:HG13	33:Z:418:ALA:CB	2.45	0.47
33:Z:433:LEU:HA	33:Z:436:LEU:HB2	1.96	0.47
8:a:112:MET:CE	8:a:117:LEU:HB2	2.43	0.47
8:a:214:LEU:HD12	8:a:218:PHE:HZ	1.78	0.47
9:b:90:ARG:CZ	4:i:97:LEU:HD23	2.44	0.47
9:b:123:GLN:HB2	10:c:129:ARG:HH21	1.77	0.47
9:b:191:ILE:O	9:b:194:LEU:HB2	2.14	0.47
10:c:148:LEU:HB3	10:c:160:TRP:O	2.14	0.47
14:g:24:VAL:O	14:g:28:VAL:HG23	2.14	0.47
3:h:104:LEU:O	3:h:108:ASN:N	2.38	0.47
4:i:70:ILE:C	4:i:71:TRP:CD1	2.92	0.47
4:i:142:ILE:HG23	4:i:148:THR:HG22	1.97	0.47
4:i:242:LEU:N	5:j:199:TYR:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:149:ARG:HB2	6:k:152:MET:HG3	1.97	0.47
7:l:256:THR:N	7:l:259:GLY:O	2.44	0.47
2:2:127:GLU:CG	13:f:100:ASN:HB2	2.42	0.47
3:3:56:VAL:HG11	3:3:101:PHE:CZ	2.47	0.47
3:3:109:LYS:HG3	3:3:110:ASP:OD1	2.14	0.47
3:3:209:PRO:HA	3:3:212:TYR:CZ	2.48	0.47
5:5:11:ILE:HG22	5:5:140:GLY:HA3	1.95	0.47
5:5:56:LEU:HD11	5:5:58:THR:HG22	1.96	0.47
5:5:189:ILE:CG1	5:5:198:ARG:HH12	2.28	0.47
6:6:69:ILE:HG21	11:D:67:ILE:O	2.15	0.47
6:6:183:ILE:O	6:6:189:ILE:HA	2.14	0.47
1:8:74:ASN:N	1:8:127:HIS:O	2.44	0.47
2:9:115:ASP:OD1	2:9:116:ALA:N	2.47	0.47
2:9:180:GLY:HA2	2:9:217:LEU:HD21	1.95	0.47
2:9:226:ARG:HD3	2:9:246:GLN:HE21	1.79	0.47
8:A:29:GLU:HA	8:A:32:PHE:CD2	2.49	0.47
9:B:71:ILE:HG21	9:B:110:LEU:HD23	1.96	0.47
10:C:19:LEU:HB2	10:C:22:VAL:HB	1.96	0.47
10:C:77:VAL:HA	10:C:135:PHE:CD2	2.50	0.47
10:C:186:VAL:HB	10:C:217:ARG:NH2	2.15	0.47
11:D:5:ASP:OD2	12:E:125:GLU:HB3	2.14	0.47
13:F:116:ALA:HA	13:F:119:ASN:ND2	2.30	0.47
13:F:157:TYR:N	14:G:58:LEU:O	2.44	0.47
15:H:214:CYS:O	15:H:217:GLN:HB3	2.15	0.47
15:H:237:THR:O	20:M:408:SER:HB2	2.15	0.47
16:I:90:GLU:O	16:I:94:LYS:N	2.40	0.47
16:I:104:LEU:HB3	16:I:149:LEU:O	2.14	0.47
16:I:288:GLY:O	16:I:334:LEU:HD23	2.13	0.47
16:I:299:GLU:HB3	16:I:302:ILE:HG13	1.96	0.47
16:I:304:ARG:HH12	16:I:308:GLU:CB	2.28	0.47
16:I:355:LEU:O	16:I:359:LYS:N	2.42	0.47
17:J:43:ARG:O	17:J:47:GLN:HG2	2.14	0.47
17:J:65:LEU:HD13	18:K:89:ILE:HG21	1.97	0.47
18:K:278:ALA:HA	18:K:296:LEU:HD13	1.95	0.47
19:L:117:TYR:N	19:L:129:VAL:O	2.41	0.47
19:L:174:GLU:HG2	19:L:175:GLN:OE1	2.14	0.47
20:M:21:GLU:O	20:M:24:ASN:HB2	2.13	0.47
20:M:337:LEU:O	20:M:343:LEU:HB2	2.15	0.47
21:N:111:GLN:CD	21:N:111:GLN:N	2.72	0.47
21:N:143:LYS:O	21:N:147:ALA:N	2.44	0.47
22:O:83:LEU:O	22:O:87:LYS:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:87:LYS:N	22:O:98:TYR:OH	2.47	0.47
23:P:311:TRP:CE2	23:P:342:GLN:OE1	2.68	0.47
24:Q:7:LYS:HB3	24:Q:30:LEU:CD2	2.45	0.47
24:Q:183:LYS:HG2	24:Q:221:MET:SD	2.55	0.47
24:Q:250:THR:O	24:Q:253:ASN:HB3	2.15	0.47
24:Q:289:GLU:HB3	24:Q:291:TYR:CE2	2.49	0.47
25:R:28:GLU:OE1	25:R:320:LYS:HG3	2.14	0.47
25:R:222:ARG:NH2	32:Y:60:TRP:O	2.48	0.47
25:R:229:LYS:O	25:R:233:ASP:N	2.43	0.47
25:R:351:LYS:O	25:R:355:SER:N	2.45	0.47
26:S:317:HIS:HA	26:S:320:ILE:HG12	1.96	0.47
26:S:467:PHE:O	26:S:470:GLN:N	2.42	0.47
27:T:69:SER:O	27:T:74:ASN:N	2.26	0.47
27:T:102:LYS:O	27:T:106:ILE:HG22	2.14	0.47
29:V:118:LEU:HD11	29:V:140:VAL:HG22	1.97	0.47
30:W:101:ARG:CZ	30:W:104:LYS:HG2	2.44	0.47
31:X:23:LEU:HA	31:X:82:LYS:NZ	2.29	0.47
33:Z:266:LYS:O	33:Z:269:TYR:HB3	2.14	0.47
33:Z:305:VAL:HA	33:Z:308:LYS:HD2	1.97	0.47
33:Z:435:GLN:NE2	33:Z:438:LYS:NZ	2.62	0.47
33:Z:550:PHE:HB2	33:Z:587:THR:HG23	1.96	0.47
33:Z:806:GLU:HA	33:Z:809:MET:HB2	1.96	0.47
8:a:29:GLU:HA	8:a:32:PHE:CD2	2.49	0.47
8:a:98:LYS:HZ3	3:h:88:GLN:CG	2.24	0.47
8:a:209:HIS:HA	8:a:212:ASP:CG	2.40	0.47
9:b:185:LEU:HD21	9:b:213:ILE:HB	1.95	0.47
12:e:22:PHE:O	12:e:26:TYR:N	2.44	0.47
12:e:236:THR:O	12:e:240:ILE:HG13	2.14	0.47
13:f:116:ALA:HA	13:f:119:ASN:ND2	2.30	0.47
6:k:143:LEU:HB2	6:k:164:CYS:SG	2.54	0.47
1:1:112:ILE:O	1:1:115:LEU:HB2	2.15	0.47
3:3:162:ARG:HH21	3:3:165:MET:HG2	1.80	0.47
3:3:180:GLN:HE22	3:h:158:ASP:HB3	1.79	0.47
6:6:139:TYR:HE2	6:6:172:MET:HB2	1.79	0.47
6:6:149:ARG:HB2	6:6:152:MET:HG3	1.97	0.47
6:6:170:LYS:HE2	7:l:216:ASP:HB3	1.95	0.47
7:7:128:GLN:OE1	1:8:149:SER:OG	2.13	0.47
1:8:27:ASN:HB3	1:8:48:ASN:OD1	2.14	0.47
8:A:188:LYS:O	8:A:190:LYS:HG3	2.14	0.47
9:B:117:ILE:HA	9:B:120:GLU:OE1	2.15	0.47
11:D:65:SER:O	11:D:73:LEU:N	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:134:MET:HE3	12:E:136:ARG:O	2.14	0.47
12:E:236:THR:O	12:E:240:ILE:HG13	2.14	0.47
15:H:72:SER:HB3	15:H:172:MET:CG	2.44	0.47
15:H:96:PRO:CD	16:I:119:ILE:CG2	2.92	0.47
15:H:432:ARG:HD3	16:I:196:GLU:CD	2.38	0.47
16:I:246:ARG:HG3	16:I:280:PHE:CE2	2.50	0.47
17:J:47:GLN:HE21	26:S:479:MET:HG2	1.80	0.47
17:J:346:VAL:CG1	17:J:382:PHE:HB3	2.44	0.47
18:K:99:PHE:HB2	18:K:137:VAL:CG1	2.45	0.47
18:K:273:GLU:HB3	18:K:275:ASP:OD1	2.15	0.47
19:L:318:LEU:HB3	19:L:322:LYS:HD3	1.95	0.47
21:N:98:VAL:O	21:N:102:VAL:N	2.29	0.47
21:N:211:PHE:HA	21:N:225:LEU:HD22	1.95	0.47
21:N:419:THR:O	21:N:422:TYR:HB3	2.13	0.47
22:O:85:SER:O	22:O:88:ASP:HB2	2.14	0.47
22:O:333:SER:OG	23:P:305:THR:HA	2.15	0.47
22:O:340:SER:H	22:O:349:THR:HB	1.79	0.47
22:O:380:LEU:O	22:O:382:LYS:N	2.47	0.47
23:P:392:LYS:HB2	23:P:401:ASN:HB2	1.95	0.47
24:Q:355:GLU:HB3	24:Q:399:VAL:HA	1.96	0.47
24:Q:373:VAL:HG12	24:Q:377:LEU:HB2	1.97	0.47
25:R:68:GLU:OE2	25:R:81:HIS:ND1	2.47	0.47
25:R:164:THR:HG21	25:R:200:LYS:NZ	2.30	0.47
25:R:173:THR:O	25:R:177:LEU:HG	2.14	0.47
25:R:358:GLY:O	32:Y:86:ARG:HB2	2.15	0.47
26:S:185:PHE:HZ	26:S:192:GLU:OE1	1.97	0.47
26:S:357:LEU:HD11	26:S:384:ARG:HH11	1.80	0.47
27:T:38:ASN:OD1	27:T:41:ILE:HD11	2.14	0.47
28:U:140:ILE:O	28:U:153:THR:O	2.32	0.47
28:U:269:THR:HG22	28:U:273:LEU:HD11	1.96	0.47
28:U:294:ASN:HB3	28:U:295:LYS:HE2	1.96	0.47
29:V:213:LEU:O	29:V:216:LEU:HG	2.14	0.47
30:W:79:THR:HG22	30:W:80:GLN:N	2.29	0.47
30:W:140:ASP:CG	30:W:170:HIS:HB3	2.40	0.47
30:W:144:PHE:CE1	30:W:176:PRO:HB3	2.49	0.47
31:X:118:ASP:OD1	31:X:119:LYS:N	2.48	0.47
33:Z:233:LEU:N	33:Z:234:PRO:HD2	2.28	0.47
33:Z:298:PHE:O	33:Z:338:HIS:ND1	2.32	0.47
33:Z:471:LEU:HD11	33:Z:496:ALA:HA	1.96	0.47
33:Z:512:ILE:O	33:Z:516:THR:N	2.45	0.47
33:Z:544:THR:HA	33:Z:547:MET:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:737:ALA:O	33:Z:740:VAL:HB	2.14	0.47
8:a:46:ARG:HG3	8:a:154:ILE:HG13	1.97	0.47
8:a:100:GLU:HA	8:a:103:GLU:OE1	2.15	0.47
9:b:7:PHE:O	9:b:125:GLY:HA2	2.14	0.47
9:b:119:GLN:HE22	10:c:86:ILE:HG13	1.79	0.47
9:b:178:ARG:HG2	9:b:191:ILE:CG2	2.45	0.47
9:b:242:GLU:O	9:b:245:ASP:HB2	2.15	0.47
11:d:138:PHE:HD2	11:d:217:PRO:HA	1.79	0.47
11:d:172:ARG:O	11:d:176:GLU:HG3	2.15	0.47
12:e:222:ILE:HG13	12:e:227:GLY:C	2.40	0.47
13:f:52:ASN:ND2	13:f:54:ASP:O	2.48	0.47
13:f:173:GLU:HG3	14:g:57:LYS:HB2	1.96	0.47
14:g:170:GLN:HG3	14:g:173:LYS:HD2	1.96	0.47
14:g:218:TRP:HZ3	14:g:223:GLU:HB2	1.77	0.47
4:i:30:THR:HA	4:i:46:ASP:OD2	2.14	0.47
4:i:88:ILE:HA	4:i:91:ASN:HD22	1.77	0.47
5:j:118:LYS:NZ	5:j:120:PHE:HB2	2.30	0.47
6:k:19:LYS:CG	6:k:180:ILE:HG13	2.44	0.47
6:k:101:ASN:HB3	6:k:133:HIS:CE1	2.49	0.47
7:l:256:THR:H	7:l:259:GLY:C	2.21	0.47
1:1:34:ILE:N	1:1:41:VAL:O	2.32	0.47
1:1:46:THR:HG22	1:1:58:TYR:HA	1.96	0.47
2:2:46:SER:OG	2:2:160:LEU:HD11	2.15	0.47
2:2:121:GLU:HB3	2:2:124:TYR:CD2	2.50	0.47
2:2:187:LEU:O	2:2:191:VAL:N	2.48	0.47
2:2:214:MET:HG3	2:2:228:PHE:CE2	2.49	0.47
2:2:226:ARG:HD3	2:2:246:GLN:HE21	1.79	0.47
3:3:23:MET:HG2	3:3:178:LEU:HD21	1.97	0.47
3:3:131:THR:HG22	3:3:139:HIS:HB2	1.97	0.47
3:3:180:GLN:CD	3:h:158:ASP:OD2	2.57	0.47
4:4:30:THR:HG23	4:4:62:LYS:HZ3	1.80	0.47
4:4:80:ASP:O	4:4:84:VAL:HG12	2.15	0.47
4:4:126:TYR:HE1	4:4:143:HIS:HB3	1.80	0.47
4:4:142:ILE:HG23	4:4:148:THR:HG22	1.97	0.47
5:5:201:LYS:HE3	7:l:273:TRP:CD1	2.49	0.47
6:6:107:TYR:CD1	6:6:186:LYS:HA	2.49	0.47
6:6:165:VAL:O	6:6:169:GLU:HG3	2.14	0.47
7:7:139:ARG:CZ	7:7:143:LEU:HD21	2.44	0.47
7:7:188:TYR:CD1	7:7:198:LYS:HB2	2.49	0.47
1:8:130:ILE:HG12	1:8:142:TYR:HB2	1.96	0.47
2:9:49:TYR:CD2	2:9:54:ILE:HG13	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:110:ASP:OD1	14:G:68:GLN:NE2	2.47	0.47
2:9:123:SER:HA	2:9:159:PHE:CE1	2.49	0.47
2:9:213:ALA:HA	2:9:216:VAL:HB	1.95	0.47
9:B:37:ILE:HG21	9:B:188:ALA:HB1	1.97	0.47
9:B:116:LYS:HG2	9:B:120:GLU:OE2	2.15	0.47
9:B:151:ASP:HB2	9:B:153:SER:OG	2.15	0.47
9:B:170:ALA:O	9:B:173:THR:HB	2.14	0.47
9:B:181:ASP:OD1	9:B:182:GLU:N	2.47	0.47
10:C:3:SER:HB2	13:F:123:TYR:CE2	2.49	0.47
10:C:140:TYR:CD2	10:C:225:VAL:HG21	2.49	0.47
11:D:38:GLY:N	11:D:41:CYS:O	2.48	0.47
11:D:106:VAL:HG12	11:D:148:TYR:HD2	1.79	0.47
12:E:36:THR:OG1	12:E:174:SER:OG	2.30	0.47
12:E:72:ARG:HH21	12:E:225:GLN:C	2.19	0.47
12:E:167:TYR:HA	13:F:57:SER:HA	1.96	0.47
13:F:52:ASN:ND2	13:F:54:ASP:O	2.48	0.47
13:F:64:ILE:O	13:F:72:LEU:N	2.45	0.47
13:F:96:SER:O	13:F:100:ASN:HA	2.14	0.47
14:G:33:ASN:CA	14:G:167:LYS:HZ3	2.24	0.47
15:H:222:ARG:HG2	15:H:227:LEU:HG	1.96	0.47
15:H:258:LEU:HA	15:H:261:ARG:HB2	1.95	0.47
15:H:281:GLN:HB2	15:H:286:GLU:CG	2.44	0.47
15:H:450:VAL:O	15:H:454:TYR:HB2	2.14	0.47
16:I:122:SER:OG	16:I:124:THR:OG1	2.19	0.47
16:I:180:SER:HB3	16:I:238:ASN:ND2	2.28	0.47
16:I:284:ILE:H	16:I:328:THR:HB	1.79	0.47
17:J:39:GLU:OE1	17:J:42:ARG:HD3	2.14	0.47
17:J:145:SER:O	17:J:201:ALA:HA	2.15	0.47
17:J:209:LYS:HB2	17:J:243:SER:CB	2.45	0.47
17:J:259:GLU:HG3	17:J:296:ARG:HD2	1.94	0.47
17:J:388:LYS:HA	17:J:391:ASN:ND2	2.28	0.47
18:K:158:ILE:HG22	18:K:159:SER:C	2.38	0.47
18:K:191:PRO:HB2	18:K:313:LYS:HZ1	1.76	0.47
18:K:253:MET:HE3	18:K:257:VAL:HG23	1.97	0.47
18:K:344:ARG:HG3	18:K:383:ILE:CD1	2.44	0.47
18:K:349:ARG:HA	18:K:352:ILE:HB	1.96	0.47
19:L:151:THR:O	19:L:153:LEU:HG	2.14	0.47
19:L:309:LEU:HD12	19:L:313:ASP:HB2	1.96	0.47
19:L:375:ASP:N	19:L:415:LEU:HD23	2.30	0.47
20:M:79:VAL:N	20:M:122:SER:OG	2.47	0.47
20:M:215:PRO:HB3	20:M:344:ASP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:216:LYS:HD2	20:M:315:PHE:CB	2.42	0.47
20:M:216:LYS:CD	20:M:315:PHE:HB2	2.43	0.47
20:M:331:ASP:OD1	20:M:332:VAL:N	2.42	0.47
20:M:394:VAL:HG22	20:M:418:GLY:O	2.14	0.47
21:N:28:ILE:O	21:N:32:VAL:HG23	2.15	0.47
21:N:69:TYR:HB3	21:N:74:GLU:O	2.14	0.47
21:N:197:VAL:HG21	21:N:202:PHE:HD2	1.80	0.47
21:N:214:LEU:HB3	21:N:220:CYS:HB2	1.95	0.47
21:N:245:LEU:O	21:N:249:ASN:N	2.47	0.47
21:N:546:LEU:O	21:N:549:TYR:HB3	2.15	0.47
21:N:650:ASP:OD1	21:N:653:ARG:NH1	2.48	0.47
21:N:742:TRP:CD1	21:N:745:LEU:HG	2.47	0.47
21:N:866:TYR:OH	21:N:878:GLN:NE2	2.47	0.47
22:O:41:LEU:HD12	22:O:51:ASP:C	2.39	0.47
22:O:75:GLN:HE21	30:W:82:GLU:CD	2.22	0.47
22:O:127:LEU:HA	22:O:130:ASP:CG	2.40	0.47
22:O:128:LEU:HD11	22:O:132:GLU:OE2	2.15	0.47
22:O:132:GLU:OE1	22:O:135:ARG:NH2	2.48	0.47
22:O:272:VAL:HG13	22:O:273:GLN:H	1.78	0.47
22:O:282:GLN:HB3	22:O:286:PHE:HE2	1.78	0.47
22:O:382:LYS:HB3	27:T:262:LYS:HZ1	1.78	0.47
23:P:131:PHE:C	23:P:133:GLU:H	2.23	0.47
23:P:147:LYS:NZ	23:P:159:ILE:CG2	2.70	0.47
23:P:432:LEU:O	23:P:435:LYS:HB3	2.13	0.47
24:Q:19:GLN:NE2	24:Q:22:GLU:HG3	2.30	0.47
24:Q:51:ARG:HD2	24:Q:54:GLN:HB2	1.96	0.47
24:Q:216:ALA:HB2	24:Q:245:SER:HB2	1.95	0.47
24:Q:335:PHE:CA	24:Q:338:LEU:HB3	2.43	0.47
24:Q:343:LEU:O	24:Q:346:ASN:HB2	2.14	0.47
24:Q:359:ILE:O	24:Q:363:SER:N	2.27	0.47
24:Q:416:VAL:HG13	25:R:410:LEU:HD11	1.97	0.47
25:R:141:TYR:HD2	25:R:150:ALA:HB2	1.79	0.47
25:R:147:LYS:NZ	25:R:181:TYR:CD2	2.83	0.47
25:R:251:THR:O	25:R:255:VAL:HG23	2.15	0.47
25:R:325:HIS:CE1	25:R:326:ALA:O	2.67	0.47
25:R:348:LEU:HB3	25:R:388:VAL:HB	1.96	0.47
25:R:363:PHE:CD1	32:Y:78:LYS:NZ	2.78	0.47
25:R:384:VAL:HG21	26:S:403:SER:HB2	1.97	0.47
26:S:15:VAL:O	26:S:18:LEU:HB2	2.15	0.47
26:S:190:SER:OG	26:S:191:HIS:N	2.48	0.47
26:S:338:MET:CB	26:S:343:LEU:H	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:481:TYR:HB3	28:U:299:LYS:HZ3	1.80	0.47
27:T:266:TYR:HA	27:T:269:SER:CB	2.41	0.47
28:U:7:LYS:NZ	28:U:158:PRO:HB2	2.11	0.47
28:U:175:LEU:HD12	28:U:176:ARG:N	2.30	0.47
28:U:192:ASN:HB3	29:V:237:ASN:OD1	2.14	0.47
29:V:95:LEU:CB	29:V:100:ARG:HB3	2.45	0.47
29:V:241:THR:CG2	29:V:297:THR:CB	2.92	0.47
29:V:264:GLU:CB	29:V:280:LEU:HD21	2.35	0.47
30:W:2:VAL:C	30:W:44:ASN:HD22	2.19	0.47
30:W:39:ALA:HA	30:W:42:ASN:HB2	1.96	0.47
30:W:46:GLU:HG2	30:W:106:GLN:NE2	2.30	0.47
31:X:108:ASN:HA	31:X:116:ALA:HA	1.96	0.47
33:Z:282:ILE:HG12	33:Z:297:VAL:HG13	1.95	0.47
33:Z:342:LEU:HG	33:Z:345:GLU:CD	2.39	0.47
33:Z:366:LYS:CE	33:Z:859:LYS:HE2	2.40	0.47
33:Z:413:ASP:HB3	33:Z:899:GLN:H	1.79	0.47
33:Z:416:THR:O	33:Z:420:ALA:N	2.27	0.47
33:Z:473:LEU:HG	33:Z:477:TYR:CE2	2.50	0.47
33:Z:483:THR:O	33:Z:487:SER:OG	2.21	0.47
33:Z:505:VAL:O	33:Z:509:LEU:N	2.37	0.47
33:Z:524:ALA:O	33:Z:565:PHE:HB3	2.14	0.47
33:Z:770:GLU:HG2	33:Z:893:PHE:CE2	2.50	0.47
33:Z:863:THR:O	33:Z:909:ARG:HB2	2.15	0.47
8:a:71:TYR:HB3	8:a:83:VAL:O	2.15	0.47
8:a:180:THR:O	8:a:184:ASN:N	2.26	0.47
8:a:188:LYS:O	8:a:190:LYS:HG3	2.15	0.47
9:b:42:GLY:HA2	9:b:145:PHE:CE1	2.50	0.47
10:c:7:ASP:OD2	11:d:6:ARG:HD3	2.14	0.47
10:c:75:VAL:HG11	10:c:137:TYR:HD1	1.80	0.47
11:d:7:ALA:HB1	12:e:135:SER:HB2	1.97	0.47
11:d:30:GLY:O	11:d:166:ARG:N	2.41	0.47
11:d:121:THR:OG1	11:d:122:GLN:N	2.48	0.47
11:d:214:VAL:O	11:d:222:VAL:N	2.42	0.47
12:e:85:ALA:O	12:e:89:ILE:N	2.34	0.47
12:e:134:MET:HE3	12:e:136:ARG:O	2.14	0.47
12:e:134:MET:HE1	12:e:138:PHE:CZ	2.49	0.47
12:e:192:THR:HG23	12:e:195:GLU:CD	2.40	0.47
12:e:226:ASP:HB3	12:e:229:LYS:HE3	1.97	0.47
14:g:9:ASP:HB2	14:g:26:TYR:CE2	2.50	0.47
14:g:12:ASN:O	14:g:21:ASN:ND2	2.47	0.47
14:g:219:CYS:HA	14:g:227:LEU:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:16:VAL:HG23	4:i:143:HIS:CD2	2.50	0.47
3:h:23:MET:HG2	3:h:178:LEU:HD21	1.97	0.47
3:h:96:THR:O	3:h:99:SER:HB3	2.14	0.47
4:i:80:ASP:O	4:i:84:VAL:HG12	2.15	0.47
5:j:8:ASN:OD1	5:j:56:LEU:HA	2.15	0.47
5:j:98:ARG:HE	5:j:103:TYR:HE2	1.62	0.47
5:j:145:GLN:OE1	5:j:145:GLN:N	2.38	0.47
5:j:148:GLY:O	5:j:152:SER:HB2	2.15	0.47
6:k:41:HIS:NE2	6:k:109:LYS:HD3	2.28	0.47
6:k:56:PHE:O	6:k:60:ILE:HG12	2.14	0.47
2:2:49:TYR:CD2	2:2:54:ILE:HG13	2.50	0.47
2:2:115:ASP:OD1	2:2:116:ALA:N	2.47	0.47
5:5:53:ILE:HB	5:5:60:VAL:HG13	1.97	0.47
6:6:146:HIS:CD2	6:6:147:HIS:CE1	3.03	0.47
1:8:95:HIS:HB3	1:8:100:ASP:HA	1.95	0.47
1:8:112:ILE:O	1:8:115:LEU:HB2	2.15	0.47
8:A:112:MET:CE	8:A:117:LEU:HB2	2.43	0.47
9:B:8:SER:CB	10:C:129:ARG:H	2.27	0.47
11:D:216:LYS:HD2	11:D:220:ASP:OD2	2.15	0.47
12:E:24:VAL:O	12:E:28:LEU:N	2.38	0.47
12:E:128:SER:OG	13:F:122:SER:HB2	2.15	0.47
13:F:28:ALA:O	13:F:31:GLN:HB3	2.14	0.47
13:F:177:ASP:O	13:F:181:LYS:HD3	2.15	0.47
13:F:187:ASP:HA	13:F:233:TYR:CE1	2.50	0.47
14:G:56:SER:N	14:G:59:LEU:HD13	2.29	0.47
15:H:95:HIS:HA	15:H:96:PRO:HA	1.60	0.47
15:H:105:ILE:HG12	15:H:169:GLU:OE2	2.15	0.47
15:H:272:ILE:HB	15:H:306:ILE:HA	1.97	0.47
15:H:398:VAL:HG12	15:H:443:PHE:HZ	1.80	0.47
16:I:121:THR:HA	16:I:127:ASP:OD1	2.14	0.47
16:I:289:THR:O	16:I:302:ILE:HG21	2.14	0.47
17:J:64:LEU:HG	18:K:121:ARG:HG3	1.97	0.47
17:J:315:GLU:O	17:J:317:PRO:HD3	2.15	0.47
17:J:369:ALA:HB2	17:J:377:VAL:HG13	1.97	0.47
18:K:347:ARG:HD2	24:Q:238:TYR:CD1	2.49	0.47
19:L:91:THR:CG2	20:M:33:ARG:HG2	2.44	0.47
19:L:345:ARG:NH1	19:L:346:LYS:C	2.70	0.47
19:L:368:VAL:HB	19:L:370:LYS:HE3	1.96	0.47
20:M:236:ALA:CB	20:M:243:PHE:HB2	2.45	0.47
21:N:338:PHE:CZ	21:N:701:VAL:HG13	2.50	0.47
21:N:361:ASN:HB2	29:V:165:ILE:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:535:LEU:HA	21:N:538:LYS:HB2	1.96	0.47
22:O:10:ILE:O	22:O:13:THR:N	2.48	0.47
22:O:254:LEU:HA	22:O:257:ALA:HB3	1.96	0.47
22:O:331:ALA:CA	22:O:337:LEU:HB2	2.44	0.47
22:O:338:LYS:HD2	22:O:352:TRP:N	2.29	0.47
22:O:362:GLN:O	22:O:366:MET:HB2	2.15	0.47
23:P:15:GLU:O	23:P:19:LYS:N	2.23	0.47
23:P:76:ASN:CG	23:P:118:VAL:HG22	2.40	0.47
23:P:168:TYR:CB	23:P:176:LYS:HD2	2.45	0.47
23:P:178:GLN:O	23:P:182:GLU:N	2.32	0.47
23:P:263:HIS:O	23:P:267:PHE:N	2.33	0.47
23:P:305:THR:C	23:P:310:ARG:NH2	2.71	0.47
24:Q:39:SER:C	24:Q:46:VAL:HG13	2.39	0.47
24:Q:51:ARG:HH21	24:Q:77:PHE:HE2	1.63	0.47
25:R:49:PHE:O	25:R:53:LYS:HG3	2.15	0.47
25:R:141:TYR:HB3	25:R:146:ASP:O	2.15	0.47
25:R:408:ASP:O	25:R:411:LEU:HB2	2.15	0.47
25:R:411:LEU:HA	25:R:414:LEU:HB2	1.97	0.47
26:S:206:GLN:O	26:S:210:LEU:N	2.32	0.47
26:S:228:GLU:CD	26:S:228:GLU:H	2.23	0.47
26:S:354:LEU:HB3	26:S:356:ASP:OD1	2.14	0.47
27:T:214:GLU:O	27:T:217:THR:HB	2.15	0.47
28:U:283:ARG:C	28:U:283:ARG:CD	2.87	0.47
33:Z:352:LYS:HD3	33:Z:466:GLU:HA	1.96	0.47
33:Z:386:VAL:HG13	33:Z:853:GLY:HA2	1.97	0.47
33:Z:550:PHE:CG	33:Z:587:THR:HG23	2.50	0.47
33:Z:791:LYS:HA	33:Z:829:GLN:OE1	2.13	0.47
33:Z:916:LEU:HA	33:Z:925:VAL:HG11	1.97	0.47
9:b:117:ILE:HA	9:b:120:GLU:OE1	2.15	0.47
9:b:118:MET:HE3	9:b:130:PHE:HB2	1.97	0.47
10:c:96:GLN:HA	10:c:99:LEU:HB3	1.97	0.47
10:c:113:ARG:NH2	6:k:71:GLU:OE1	2.48	0.47
12:e:35:SER:CB	12:e:66:LYS:NZ	2.76	0.47
12:e:83:ALA:O	12:e:86:ARG:HG2	2.15	0.47
13:f:187:ASP:HA	13:f:233:TYR:CE1	2.50	0.47
14:g:51:GLU:CD	14:g:204:HIS:HD1	2.21	0.47
14:g:149:TYR:HD1	14:g:159:GLY:HA2	1.80	0.47
3:h:131:THR:HG22	3:h:139:HIS:HB2	1.97	0.47
4:i:132:VAL:HG12	4:i:137:SER:HB3	1.96	0.47
4:i:245:SER:OG	5:j:197:LYS:HB3	2.15	0.47
6:k:5:LEU:O	6:k:16:ALA:N	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:132:ALA:HB1	6:k:136:SER:HB2	1.96	0.47
7:l:188:TYR:CD1	7:l:198:LYS:HB2	2.49	0.47
2:2:213:ALA:HA	2:2:216:VAL:HB	1.95	0.47
4:4:33:VAL:HG22	4:4:188:ILE:HD11	1.96	0.47
4:4:94:LEU:HD21	9:B:94:HIS:ND1	2.29	0.47
6:6:140:THR:HG22	6:6:164:CYS:HB3	1.96	0.47
6:6:148:TYR:OH	6:6:150:PRO:HA	2.14	0.47
1:8:180:GLU:HB2	1:8:187:VAL:HB	1.97	0.47
2:9:45:ILE:HG22	2:9:176:ALA:HB1	1.96	0.47
2:9:46:SER:OG	2:9:160:LEU:HD11	2.15	0.47
2:9:121:GLU:OE2	2:9:153:GLN:HA	2.15	0.47
8:A:63:LEU:HD21	14:G:176:LEU:HB3	1.95	0.47
8:A:209:HIS:HA	8:A:212:ASP:CG	2.40	0.47
11:D:117:GLN:O	11:D:121:THR:HG23	2.14	0.47
12:E:81:LEU:O	12:E:140:VAL:HB	2.15	0.47
12:E:119:LEU:HA	12:E:122:ARG:HD2	1.97	0.47
13:F:43:HIS:CE1	13:F:184:GLY:HA2	2.45	0.47
13:F:226:ASP:HA	13:F:230:VAL:HG13	1.97	0.47
14:G:8:TYR:CD1	14:G:17:PRO:HD3	2.50	0.47
14:G:91:ARG:HA	14:G:94:GLU:OE2	2.14	0.47
14:G:177:GLU:O	14:G:180:VAL:HB	2.15	0.47
15:H:222:ARG:HA	15:H:226:GLU:CB	2.45	0.47
15:H:222:ARG:HH12	15:H:227:LEU:HD11	1.76	0.47
15:H:249:TYR:HA	15:H:355:THR:O	2.15	0.47
16:I:230:THR:HG23	16:I:246:ARG:NH1	2.30	0.47
16:I:358:LYS:HZ1	16:I:386:ASP:HA	1.80	0.47
17:J:345:LYS:HE2	17:J:383:GLU:OE2	2.15	0.47
18:K:251:PRO:HB3	18:K:298:GLU:CG	2.45	0.47
18:K:374:ARG:O	18:K:411:TYR:OH	2.31	0.47
19:L:215:PRO:CD	19:L:322:LYS:HZ1	2.26	0.47
19:L:372:GLY:HA2	19:L:376:PHE:CZ	2.50	0.47
20:M:8:ASP:O	20:M:12:LEU:HG	2.15	0.47
20:M:279:PHE:HA	20:M:324:LEU:O	2.14	0.47
20:M:375:ASN:ND2	20:M:378:GLU:HG3	2.30	0.47
21:N:315:ASN:HA	21:N:318:LYS:HE3	1.97	0.47
21:N:330:THR:O	21:N:333:SER:HB3	2.14	0.47
21:N:336:ASN:ND2	21:N:348:PHE:HB3	2.29	0.47
21:N:370:SER:HA	21:N:747:HIS:CD2	2.50	0.47
21:N:378:ASN:O	21:N:411:ILE:HG21	2.14	0.47
22:O:12:SER:HB3	22:O:21:SER:O	2.14	0.47
22:O:105:GLN:HG3	22:O:111:SER:CB	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:338:LYS:HZ2	22:O:353:VAL:CB	2.28	0.47
23:P:242:GLN:HE21	23:P:246:GLN:CG	2.26	0.47
23:P:324:GLU:HA	23:P:334:ASN:OD1	2.15	0.47
24:Q:65:TYR:C	24:Q:71:LYS:H	2.23	0.47
24:Q:115:ILE:HG13	24:Q:144:LEU:HD13	1.96	0.47
25:R:317:ILE:HB	25:R:318:PRO:HD3	1.97	0.47
25:R:344:SER:OG	25:R:345:TYR:N	2.47	0.47
26:S:144:LEU:O	26:S:149:SER:OG	2.32	0.47
26:S:342:LEU:HD21	26:S:346:TYR:HB2	1.96	0.47
27:T:85:LEU:O	27:T:89:TYR:N	2.25	0.47
28:U:81:LYS:HA	28:U:84:ASN:O	2.14	0.47
28:U:91:GLY:CA	28:U:119:LEU:H	2.27	0.47
28:U:108:GLU:HG2	28:U:111:LYS:NZ	2.29	0.47
28:U:132:LEU:CA	29:V:215:ASN:HD21	2.28	0.47
29:V:254:ARG:HG2	29:V:287:THR:HG21	1.96	0.47
30:W:4:GLU:HA	30:W:106:GLN:CA	2.44	0.47
31:X:23:LEU:HD23	31:X:82:LYS:NZ	2.30	0.47
33:Z:366:LYS:HD2	33:Z:859:LYS:CG	2.45	0.47
33:Z:741:LEU:HB2	33:Z:775:MET:CE	2.45	0.47
9:b:37:ILE:HG21	9:b:188:ALA:HB1	1.97	0.47
9:b:151:ASP:HB2	9:b:153:SER:OG	2.15	0.47
12:e:15:PHE:CE2	13:f:126:ARG:HB2	2.49	0.47
12:e:16:SER:OG	12:e:18:GLU:HB2	2.15	0.47
12:e:16:SER:HA	12:e:22:PHE:CZ	2.49	0.47
12:e:41:ALA:HA	12:e:46:VAL:HG22	1.97	0.47
12:e:201:LEU:HG	12:e:243:LEU:CD1	2.44	0.47
13:f:40:SER:OG	13:f:43:HIS:N	2.22	0.47
13:f:107:ARG:O	13:f:110:HIS:HB2	2.15	0.47
14:g:28:VAL:HA	14:g:31:VAL:HB	1.97	0.47
14:g:49:ALA:HA	14:g:216:ILE:HA	1.96	0.47
14:g:67:ILE:H	14:g:215:GLU:CD	2.22	0.47
14:g:112:PHE:CE2	14:g:116:LEU:HD11	2.50	0.47
4:i:42:VAL:HA	4:i:206:VAL:HA	1.97	0.47
4:i:244:GLU:OE2	5:j:196:VAL:HG11	2.14	0.47
5:j:34:LEU:HD22	6:k:138:PHE:CE1	2.46	0.47
5:j:56:LEU:HD11	5:j:58:THR:HG22	1.96	0.47
6:k:107:TYR:CE1	6:k:186:LYS:HA	2.50	0.47
2:2:121:GLU:OE2	2:2:153:GLN:HA	2.15	0.47
2:2:123:SER:HA	2:2:159:PHE:CE1	2.49	0.47
3:3:159:LYS:NZ	3:h:215:LEU:C	2.73	0.47
6:6:185:ASP:O	6:6:188:GLY:N	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:7:187:ILE:O	7:7:198:LYS:HG3	2.15	0.47
7:7:226:GLU:HA	7:7:229:LEU:HD12	1.96	0.47
1:8:168:PHE:CD2	1:8:169:LEU:HD12	2.48	0.47
1:8:211:THR:OG1	1:8:217:VAL:HG12	2.15	0.47
2:9:110:ASP:OD1	14:G:93:ARG:NH2	2.45	0.47
2:9:121:GLU:HB3	2:9:124:TYR:CD2	2.50	0.47
2:9:252:TRP:NE1	3:h:209:PRO:HG2	2.30	0.47
11:D:34:VAL:HG23	11:D:163:THR:HB	1.95	0.47
12:E:15:PHE:HB3	13:F:24:TYR:HB3	1.97	0.47
12:E:192:THR:HG23	12:E:195:GLU:CD	2.40	0.47
12:E:194:LYS:O	12:E:197:GLU:HB2	2.15	0.47
14:G:24:VAL:O	14:G:28:VAL:HG23	2.14	0.47
14:G:30:ALA:O	14:G:33:ASN:HB3	2.15	0.47
14:G:190:ARG:O	14:G:193:VAL:HB	2.14	0.47
15:H:220:LYS:HA	20:M:404:ARG:NH2	2.22	0.47
15:H:235:PHE:O	15:H:239:GLY:N	2.48	0.47
16:I:150:HIS:ND1	16:I:151:HIS:N	2.63	0.47
18:K:213:GLY:N	18:K:219:LYS:NZ	2.63	0.47
18:K:363:ALA:HA	18:K:401:VAL:HB	1.95	0.47
18:K:399:ARG:NH2	18:K:401:VAL:HG23	2.30	0.47
19:L:290:ARG:CZ	19:L:302:GLN:HB2	2.43	0.47
19:L:307:GLU:O	19:L:311:GLN:N	2.47	0.47
19:L:336:ALA:HA	19:L:339:ARG:HE	1.79	0.47
19:L:373:GLU:C	19:L:412:PRO:HD3	2.40	0.47
20:M:172:VAL:HG22	20:M:244:LEU:HD13	1.97	0.47
20:M:378:GLU:OE1	20:M:412:HIS:NE2	2.48	0.47
21:N:386:MET:HE3	21:N:407:GLY:C	2.40	0.47
21:N:399:PHE:HA	21:N:441:VAL:HG11	1.96	0.47
21:N:504:TYR:O	21:N:508:THR:OG1	2.27	0.47
21:N:668:THR:O	21:N:671:LEU:HB3	2.15	0.47
22:O:177:GLN:O	22:O:181:PHE:N	2.45	0.47
22:O:245:ASP:N	22:O:248:TYR:HB2	2.30	0.47
23:P:56:LYS:HG2	23:P:92:SER:OG	2.16	0.47
23:P:104:LEU:HD11	23:P:118:VAL:HG21	1.96	0.47
23:P:133:GLU:CG	23:P:167:THR:HB	2.45	0.47
23:P:422:LEU:CG	23:P:426:ILE:HD11	2.45	0.47
24:Q:51:ARG:HH12	24:Q:55:GLU:CB	2.19	0.47
24:Q:158:ILE:HG23	24:Q:177:VAL:HG22	1.96	0.47
24:Q:420:ASN:ND2	25:R:413:LYS:HZ3	2.13	0.47
24:Q:420:ASN:ND2	25:R:413:LYS:HZ2	2.12	0.47
25:R:27:SER:OG	25:R:180:PHE:O	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:43:ARG:CZ	25:R:88:LEU:HB2	2.44	0.47
25:R:77:SER:CB	25:R:90:GLU:HA	2.41	0.47
25:R:113:LEU:HD13	25:R:117:ILE:HD12	1.97	0.47
25:R:259:PHE:HD1	25:R:333:MET:HG2	1.80	0.47
25:R:422:ARG:HH22	28:U:300:LYS:N	2.13	0.47
26:S:1:MET:N	26:S:4:THR:H	2.13	0.47
26:S:293:ILE:HA	26:S:296:ALA:HB3	1.97	0.47
27:T:50:ILE:HA	27:T:53:ASN:HB3	1.97	0.47
27:T:78:PHE:CE2	27:T:109:TYR:HB2	2.48	0.47
27:T:144:TYR:O	27:T:148:LEU:HG	2.15	0.47
28:U:6:GLU:HA	28:U:44:SER:CA	2.44	0.47
30:W:5:ALA:N	30:W:106:GLN:HB3	2.31	0.47
31:X:85:ARG:HG2	31:X:86:ILE:N	2.30	0.47
33:Z:124:MET:HE1	33:Z:129:ASN:HA	1.97	0.47
33:Z:585:LEU:HD21	33:Z:599:ILE:O	2.15	0.47
9:b:9:LEU:HD12	9:b:127:VAL:O	2.15	0.47
10:c:14:SER:O	10:c:17:GLY:N	2.39	0.47
11:d:72:VAL:HG13	11:d:221:ILE:HD13	1.96	0.47
11:d:95:SER:O	11:d:99:THR:N	2.37	0.47
11:d:142:ASP:OD2	11:d:144:GLU:HB3	2.15	0.47
11:d:226:SER:HA	11:d:229:ILE:HB	1.96	0.47
11:d:233:VAL:O	11:d:237:GLU:HG3	2.15	0.47
12:e:123:PHE:CZ	12:e:137:PRO:HG3	2.50	0.47
12:e:156:PHE:CE1	12:e:166:ARG:HB2	2.50	0.47
13:f:123:TYR:CB	14:g:128:SER:CB	2.85	0.47
14:g:43:ASN:OD1	14:g:44:ASP:N	2.41	0.47
14:g:91:ARG:HA	14:g:94:GLU:OE2	2.14	0.47
14:g:151:LEU:HD12	14:g:156:SER:C	2.39	0.47
6:k:91:SER:HA	6:k:94:SER:HB3	1.97	0.47
6:k:107:TYR:CD1	6:k:186:LYS:HA	2.49	0.47
7:l:76:THR:N	7:l:245:TYR:O	2.48	0.47
7:l:180:THR:N	7:l:184:GLY:O	2.46	0.47
1:1:145:ASP:CG	1:1:147:VAL:HG22	2.40	0.46
3:3:11:LEU:HA	3:3:67:SER:HB2	1.97	0.46
3:3:91:THR:HG22	3:3:92:PRO:O	2.14	0.46
3:3:182:ILE:HG23	3:3:189:GLY:HA2	1.97	0.46
5:5:98:ARG:HE	5:5:103:TYR:HE2	1.62	0.46
6:6:51:GLY:CA	7:7:166:LYS:NZ	2.78	0.46
6:6:139:TYR:CD1	7:l:209:THR:HB	2.50	0.46
1:8:21:PHE:CG	2:9:142:PRO:HG3	2.50	0.46
1:8:34:ILE:N	1:8:41:VAL:O	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:46:THR:HG22	1:8:58:TYR:HA	1.96	0.46
1:8:68:ASN:OD1	1:8:226:VAL:HG13	2.14	0.46
2:9:48:LYS:CB	2:9:53:VAL:HG12	2.45	0.46
8:A:100:GLU:HA	8:A:103:GLU:OE1	2.15	0.46
8:A:135:ARG:CZ	14:G:125:LEU:HD23	2.45	0.46
8:A:203:VAL:HG12	8:A:244:ARG:HD2	1.97	0.46
10:C:175:LEU:CD1	10:C:200:THR:HG23	2.46	0.46
11:D:93:ALA:O	11:D:97:ARG:N	2.30	0.46
11:D:122:GLN:HB2	12:E:134:MET:CG	2.44	0.46
11:D:138:PHE:HD2	11:D:217:PRO:HA	1.79	0.46
11:D:233:VAL:O	11:D:237:GLU:HG3	2.15	0.46
12:E:123:PHE:CZ	12:E:137:PRO:HG3	2.50	0.46
13:F:187:ASP:O	13:F:191:LYS:HG3	2.15	0.46
15:H:222:ARG:HG3	15:H:226:GLU:HB3	1.97	0.46
15:H:249:TYR:CE2	15:H:376:GLU:HB2	2.50	0.46
16:I:105:SER:HA	17:J:94:TYR:CD1	2.49	0.46
16:I:191:ILE:HA	16:I:194:ILE:HG22	1.97	0.46
16:I:290:LYS:O	16:I:303:GLN:NE2	2.48	0.46
18:K:136:SER:HB3	18:K:150:LEU:HD12	1.97	0.46
18:K:238:ASN:HB3	19:L:306:MET:SD	2.56	0.46
19:L:107:GLU:OE2	19:L:145:ARG:CZ	2.63	0.46
19:L:193:LEU:HD21	19:L:347:VAL:HG22	1.95	0.46
19:L:286:ILE:C	19:L:301:ILE:HG23	2.39	0.46
20:M:201:MET:HA	20:M:319:ASP:OD2	2.15	0.46
21:N:85:ALA:C	21:N:87:ASP:H	2.22	0.46
21:N:151:LYS:HA	21:N:154:LEU:HD12	1.96	0.46
21:N:221:ASP:OD1	21:N:894:ARG:NH1	2.47	0.46
21:N:297:ASP:OD2	21:N:921:ARG:HB2	2.15	0.46
21:N:302:PHE:HA	21:N:306:ASN:ND2	2.31	0.46
21:N:376:LYS:NZ	21:N:750:SER:C	2.73	0.46
21:N:556:ALA:O	21:N:559:TYR:N	2.48	0.46
21:N:599:TYR:O	21:N:603:PRO:HD3	2.14	0.46
22:O:222:LEU:HD13	22:O:254:LEU:HD13	1.97	0.46
22:O:327:LEU:HD23	22:O:330:ARG:HH11	1.80	0.46
23:P:163:LEU:HD22	23:P:179:PHE:CB	2.44	0.46
23:P:228:SER:HB3	23:P:237:VAL:CG2	2.40	0.46
23:P:263:HIS:C	23:P:266:TYR:HB3	2.40	0.46
24:Q:20:TYR:CG	24:Q:64:LEU:HB3	2.50	0.46
24:Q:120:LYS:HB3	24:Q:124:PHE:CE2	2.50	0.46
24:Q:151:TYR:CG	24:Q:184:VAL:HG13	2.50	0.46
24:Q:162:LEU:O	24:Q:166:LYS:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:133:ALA:HA	25:R:136:ASN:HD22	1.80	0.46
25:R:165:GLY:HA2	25:R:168:ILE:HB	1.96	0.46
25:R:266:LEU:CA	25:R:270:VAL:HG22	2.45	0.46
26:S:352:VAL:HG13	26:S:387:VAL:CG2	2.43	0.46
27:T:213:ASN:O	27:T:216:GLU:HB2	2.15	0.46
28:U:37:ILE:N	28:U:92:TRP:HA	2.31	0.46
28:U:91:GLY:HA3	28:U:119:LEU:H	1.80	0.46
28:U:271:ASP:CA	28:U:274:MET:HE2	2.44	0.46
30:W:92:GLN:O	30:W:95:GLN:HB2	2.15	0.46
30:W:104:LYS:C	30:W:106:GLN:H	2.23	0.46
33:Z:363:ASP:CA	33:Z:366:LYS:HG2	2.45	0.46
33:Z:433:LEU:O	33:Z:437:ASP:N	2.32	0.46
8:a:20:SER:O	8:a:23:GLY:N	2.32	0.46
9:b:116:LYS:HG2	9:b:120:GLU:OE2	2.15	0.46
10:c:94:HIS:CD2	10:c:114:ARG:HG2	2.50	0.46
11:d:144:GLU:CD	11:d:146:LYS:HZ3	2.23	0.46
11:d:158:SER:H	12:e:63:SER:CB	2.28	0.46
11:d:216:LYS:HD2	11:d:220:ASP:OD2	2.15	0.46
13:f:171:TYR:O	13:f:174:ARG:HB3	2.15	0.46
14:g:199:ILE:O	14:g:203:ALA:N	2.23	0.46
3:h:39:THR:OG1	3:h:47:ASN:O	2.26	0.46
5:j:38:ASN:CB	5:j:183:TRP:HB3	2.45	0.46
6:k:146:HIS:CD2	6:k:147:HIS:CE1	3.03	0.46
7:l:96:THR:HA	7:l:101:VAL:HA	1.97	0.46
7:l:187:ILE:O	7:l:198:LYS:HG3	2.15	0.46
7:l:250:VAL:O	7:l:265:ASN:HA	2.16	0.46
3:3:133:PRO:HD2	3:3:137:SER:O	2.14	0.46
3:3:196:VAL:N	3:3:203:GLU:O	2.37	0.46
7:7:76:THR:N	7:7:245:TYR:O	2.47	0.46
7:7:151:VAL:HG12	7:7:188:TYR:HD2	1.78	0.46
7:7:189:TYR:OH	7:7:191:ASP:HB3	2.15	0.46
2:9:133:MET:HE1	2:9:143:LEU:O	2.15	0.46
8:A:146:VAL:HB	8:A:230:LYS:HA	1.97	0.46
11:D:142:ASP:OD2	11:D:144:GLU:HB3	2.15	0.46
11:D:196:VAL:HA	11:D:199:LEU:HD12	1.98	0.46
12:E:75:GLY:HA3	12:E:228:PHE:CD1	2.51	0.46
12:E:167:TYR:CB	12:E:170:LYS:HB2	2.45	0.46
13:F:146:GLU:HG2	13:F:148:GLN:HE21	1.80	0.46
13:F:179:PHE:HA	13:F:182:ILE:HD12	1.97	0.46
14:G:74:ILE:HG12	14:G:109:ILE:CD1	2.45	0.46
15:H:206:VAL:O	15:H:262:ALA:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:223:GLU:HG2	20:M:400:MET:CB	2.45	0.46
15:H:364:ALA:HA	15:H:367:ARG:CD	2.45	0.46
16:I:185:GLY:HA2	16:I:360:LYS:HG2	1.96	0.46
17:J:43:ARG:HD3	26:S:476:LEU:O	2.15	0.46
17:J:76:ILE:HG13	17:J:93:LYS:HG2	1.97	0.46
18:K:50:LYS:O	18:K:54:LEU:HG	2.15	0.46
18:K:206:PRO:HA	18:K:335:ASP:OD2	2.15	0.46
18:K:347:ARG:HH22	24:Q:202:ARG:HH11	1.64	0.46
19:L:102:GLY:HA2	20:M:129:LEU:HB3	1.97	0.46
19:L:105:ILE:HD11	20:M:128:PHE:CB	2.43	0.46
19:L:109:MET:O	19:L:110:LYS:HB3	2.15	0.46
19:L:263:ILE:O	19:L:266:MET:HB2	2.15	0.46
20:M:19:ASP:O	20:M:23:LEU:HG	2.15	0.46
20:M:30:LEU:O	20:M:33:ARG:HB2	2.14	0.46
20:M:356:SER:O	20:M:360:ILE:HG13	2.14	0.46
21:N:163:LEU:HD23	21:N:166:ILE:HD12	1.97	0.46
21:N:302:PHE:CA	21:N:306:ASN:HD22	2.28	0.46
21:N:433:THR:OG1	21:N:434:SER:N	2.49	0.46
21:N:629:CYS:O	21:N:663:ILE:HG23	2.15	0.46
21:N:739:PHE:CD2	21:N:740:TRP:N	2.84	0.46
21:N:743:PHE:CE2	29:V:164:LEU:HD22	2.50	0.46
21:N:875:LEU:HG	21:N:877:GLN:H	1.80	0.46
22:O:109:LEU:HD12	22:O:124:ASP:HB2	1.97	0.46
22:O:185:PHE:HB2	22:O:223:LEU:C	2.40	0.46
22:O:215:TYR:CD1	22:O:251:LEU:HD11	2.51	0.46
23:P:181:LEU:O	23:P:184:MET:HB2	2.15	0.46
23:P:248:ASP:HA	23:P:251:LYS:CB	2.44	0.46
23:P:281:ILE:HG23	23:P:300:VAL:HG11	1.97	0.46
23:P:308:LEU:HD23	23:P:349:ASN:HD22	1.80	0.46
23:P:318:TYR:HB3	23:P:322:LEU:HB3	1.97	0.46
23:P:384:VAL:O	23:P:387:GLY:N	2.42	0.46
23:P:440:HIS:HD2	28:U:213:LYS:HE2	1.79	0.46
24:Q:13:ARG:HA	24:Q:16:ASN:HB2	1.96	0.46
24:Q:98:LYS:HG2	24:Q:102:GLU:OE2	2.15	0.46
24:Q:139:ILE:HD11	24:Q:165:PHE:HE2	1.80	0.46
24:Q:186:HIS:HE1	24:Q:228:GLU:OE2	1.99	0.46
25:R:167:LYS:O	25:R:170:VAL:HB	2.15	0.46
25:R:188:LYS:O	25:R:191:LEU:HB3	2.15	0.46
25:R:382:ASP:OD2	25:R:385:ASN:CB	2.63	0.46
26:S:227:ASN:O	26:S:230:LYS:HB2	2.15	0.46
26:S:231:ALA:HB3	26:S:259:TYR:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:319:CYS:HB3	26:S:379:LEU:CD1	2.45	0.46
26:S:455:GLU:CD	26:S:455:GLU:H	2.23	0.46
27:T:228:ILE:HG12	27:T:233:VAL:HA	1.96	0.46
28:U:121:LEU:HD11	28:U:134:THR:CG2	2.44	0.46
28:U:210:TYR:CZ	28:U:223:HIS:N	2.84	0.46
29:V:264:GLU:HB3	29:V:280:LEU:CD2	2.37	0.46
30:W:150:ASN:O	30:W:152:GLU:HG3	2.14	0.46
31:X:62:ASP:OD1	31:X:66:LEU:HB2	2.15	0.46
31:X:87:PHE:CE1	31:X:121:ILE:HG21	2.50	0.46
33:Z:493:LEU:HA	33:Z:496:ALA:CB	2.36	0.46
9:b:71:ILE:HG21	9:b:110:LEU:HD23	1.96	0.46
9:b:97:TYR:O	9:b:101:TYR:N	2.33	0.46
9:b:170:ALA:O	9:b:173:THR:HB	2.14	0.46
10:c:44:ILE:HG13	10:c:146:TYR:CD1	2.50	0.46
11:d:38:GLY:N	11:d:41:CYS:O	2.48	0.46
12:e:241:LYS:NZ	12:e:245:GLU:OE2	2.47	0.46
14:g:74:ILE:HG12	14:g:109:ILE:CD1	2.45	0.46
14:g:112:PHE:CZ	14:g:116:LEU:HD11	2.51	0.46
14:g:179:LEU:HD23	14:g:182:HIS:HB2	1.98	0.46
14:g:190:ARG:O	14:g:193:VAL:HB	2.14	0.46
3:h:108:ASN:C	3:h:112:LEU:HG	2.41	0.46
3:h:208:TYR:O	3:h:211:GLU:HB3	2.15	0.46
5:j:189:ILE:CG1	5:j:198:ARG:HH12	2.28	0.46
6:k:41:HIS:O	6:k:107:TYR:N	2.36	0.46
6:k:85:ARG:HB2	6:k:125:LYS:HB2	1.97	0.46
7:l:180:THR:OG1	7:l:183:GLU:HB2	2.15	0.46
1:1:92:LYS:HZ2	13:f:93:ASN:CB	2.26	0.46
1:1:215:ILE:HB	4:4:196:LEU:HB3	1.98	0.46
3:3:20:THR:CA	3:3:188:SER:HA	2.44	0.46
3:3:36:ASP:O	3:3:52:LYS:HD2	2.16	0.46
5:5:63:LEU:O	5:5:66:MET:HB3	2.15	0.46
6:6:107:TYR:CE1	6:6:186:LYS:HA	2.50	0.46
7:7:96:THR:HA	7:7:101:VAL:HA	1.97	0.46
7:7:148:ARG:NH1	7:7:257:GLU:HG3	2.30	0.46
7:7:189:TYR:HD2	7:7:197:LEU:HD12	1.78	0.46
7:7:256:THR:N	7:7:259:GLY:O	2.43	0.46
2:9:43:SER:C	2:9:74:ARG:HH12	2.24	0.46
8:A:185:HIS:NE2	8:A:205:PHE:HE1	2.14	0.46
8:A:243:GLU:O	8:A:247:ALA:N	2.28	0.46
9:B:139:HIS:HB2	9:B:145:PHE:CD1	2.50	0.46
11:D:172:ARG:O	11:D:176:GLU:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:192:THR:OG1	12:E:195:GLU:HG3	2.16	0.46
15:H:206:VAL:HG13	15:H:209:SER:HB3	1.96	0.46
15:H:340:LEU:HB3	15:H:370:ARG:NH1	2.30	0.46
15:H:406:LEU:N	15:H:409:ARG:HH11	2.13	0.46
15:H:435:ARG:HB3	15:H:437:VAL:O	2.16	0.46
15:H:456:LYS:NZ	16:I:331:ILE:HB	2.31	0.46
16:I:103:PRO:O	16:I:151:HIS:CD2	2.68	0.46
16:I:106:ILE:HG21	17:J:93:LYS:HB2	1.97	0.46
16:I:148:LEU:HB2	16:I:158:GLY:N	2.30	0.46
17:J:246:PHE:HD1	17:J:291:ILE:HB	1.81	0.46
18:K:252:ARG:O	18:K:256:ASP:N	2.42	0.46
19:L:216:LYS:HG3	19:L:341:GLY:H	1.80	0.46
20:M:79:VAL:HB	20:M:146:VAL:H	1.80	0.46
21:N:13:LEU:HD21	21:N:45:ASP:CB	2.46	0.46
21:N:124:TYR:CE2	21:N:164:ASP:OD2	2.67	0.46
21:N:348:PHE:HE2	21:N:355:TRP:CE3	2.33	0.46
21:N:382:GLY:HA3	21:N:411:ILE:CD1	2.44	0.46
22:O:82:LEU:N	22:O:85:SER:H	2.13	0.46
23:P:94:GLN:OE1	23:P:130:ILE:HB	2.15	0.46
24:Q:62:GLY:O	24:Q:66:VAL:HG23	2.16	0.46
24:Q:219:ASP:CB	24:Q:242:SER:HB3	2.42	0.46
24:Q:389:VAL:O	24:Q:397:LEU:HD12	2.14	0.46
24:Q:425:GLN:O	24:Q:429:LYS:N	2.43	0.46
25:R:113:LEU:CD1	25:R:137:LEU:HD13	2.45	0.46
25:R:256:THR:O	25:R:260:THR:N	2.45	0.46
26:S:21:SER:C	26:S:22:GLU:HG2	2.39	0.46
26:S:146:LEU:CD2	26:S:150:LYS:HA	2.46	0.46
26:S:429:ASP:O	26:S:431:VAL:HG23	2.16	0.46
27:T:91:SER:CB	27:T:94:HIS:HB2	2.45	0.46
27:T:151:TRP:HE3	27:T:156:SER:O	1.98	0.46
28:U:39:GLY:HA3	28:U:47:ARG:O	2.16	0.46
29:V:154:ASP:OD2	29:V:156:PHE:CE1	2.68	0.46
29:V:232:GLU:C	29:V:235:GLU:H	2.23	0.46
29:V:260:GLU:HA	29:V:263:GLU:CD	2.41	0.46
30:W:123:ASP:CB	30:W:127:ARG:HH12	2.23	0.46
31:X:12:ALA:HB2	31:X:85:ARG:HH12	1.81	0.46
33:Z:144:SER:HB2	33:Z:153:TYR:HE2	1.81	0.46
33:Z:217:GLU:HG3	33:Z:245:VAL:O	2.15	0.46
33:Z:356:ASP:HA	33:Z:359:LYS:HB3	1.98	0.46
33:Z:797:THR:OG1	33:Z:815:MET:HE1	2.16	0.46
33:Z:924:LYS:HG3	33:Z:958:ASN:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:13:SER:OG	9:b:15:SER:OG	2.17	0.46
9:b:196:LEU:O	9:b:200:VAL:HG23	2.15	0.46
10:c:175:LEU:CD1	10:c:200:THR:HG23	2.45	0.46
11:d:214:VAL:HB	11:d:222:VAL:CG1	2.46	0.46
12:e:44:GLU:CD	12:e:193:LEU:H	2.21	0.46
12:e:75:GLY:HA3	12:e:228:PHE:CD1	2.51	0.46
12:e:214:GLU:HB2	12:e:233:ASN:CA	2.45	0.46
13:f:4:ASN:HA	13:f:7:ASP:OD1	2.16	0.46
14:g:177:GLU:O	14:g:180:VAL:HB	2.15	0.46
3:h:14:GLY:HA3	4:i:126:TYR:OH	2.16	0.46
3:h:37:SER:OG	3:h:191:VAL:N	2.37	0.46
5:j:109:VAL:O	5:j:122:ALA:N	2.47	0.46
5:j:120:PHE:CE1	5:j:132:GLU:OE2	2.68	0.46
7:l:189:TYR:OH	7:l:191:ASP:HB3	2.15	0.46
2:2:90:ILE:HG23	2:2:93:MET:HE2	1.97	0.46
2:2:188:LEU:HA	2:2:191:VAL:HB	1.98	0.46
3:3:54:THR:HB	3:3:62:CYS:SG	2.56	0.46
3:3:108:ASN:C	3:3:112:LEU:HG	2.40	0.46
4:4:68:PRO:CA	9:B:224:TYR:HD2	2.28	0.46
5:5:38:ASN:CB	5:5:183:TRP:HB3	2.45	0.46
5:5:109:VAL:O	5:5:122:ALA:N	2.47	0.46
7:7:104:GLN:NE2	7:7:248:GLY:H	2.14	0.46
7:7:180:THR:HA	7:7:257:GLU:HG3	1.97	0.46
1:8:30:THR:CA	1:8:74:ASN:HD21	2.28	0.46
1:8:114:HIS:CE1	12:E:101:LEU:O	2.69	0.46
2:9:187:LEU:O	2:9:191:VAL:N	2.48	0.46
2:9:222:ALA:HB2	3:h:40:THR:HG21	1.98	0.46
8:A:71:TYR:HB3	8:A:83:VAL:O	2.15	0.46
9:B:178:ARG:HG2	9:B:191:ILE:CG2	2.45	0.46
11:D:72:VAL:HG13	11:D:221:ILE:HD13	1.96	0.46
11:D:121:THR:OG1	11:D:122:GLN:N	2.48	0.46
11:D:226:SER:HA	11:D:229:ILE:HB	1.96	0.46
12:E:165:TYR:HE1	13:F:60:GLN:N	2.13	0.46
13:F:107:ARG:O	13:F:110:HIS:HB2	2.15	0.46
13:F:198:SER:O	13:F:201:LEU:HB2	2.16	0.46
14:G:201:TYR:O	14:G:204:HIS:HB3	2.16	0.46
15:H:96:PRO:HG3	16:I:111:GLU:HB2	1.96	0.46
15:H:98:GLN:O	15:H:149:LEU:HB3	2.16	0.46
15:H:178:ARG:O	15:H:180:LYS:HG3	2.16	0.46
15:H:376:GLU:HG2	15:H:377:PHE:O	2.16	0.46
16:I:222:TYR:CD1	16:I:329:ASN:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:336:ASN:HB2	17:J:375:ILE:O	2.16	0.46
17:J:369:ALA:O	17:J:374:ARG:N	2.42	0.46
18:K:304:ASP:OD2	18:K:330:ARG:HD2	2.15	0.46
18:K:349:ARG:NH2	18:K:378:LEU:N	2.63	0.46
19:L:86:LYS:HB3	19:L:90:LYS:NZ	2.31	0.46
20:M:84:GLU:O	20:M:117:ALA:HA	2.14	0.46
20:M:148:VAL:HA	20:M:156:LEU:N	2.29	0.46
20:M:167:VAL:HG11	20:M:262:LEU:HD22	1.97	0.46
20:M:216:LYS:HD3	20:M:341:GLY:O	2.15	0.46
21:N:74:GLU:HB3	21:N:77:SER:HB2	1.96	0.46
21:N:176:GLN:O	21:N:179:THR:HG23	2.15	0.46
21:N:360:GLN:HG2	21:N:363:ALA:CB	2.45	0.46
21:N:397:SER:H	21:N:400:ILE:HD12	1.80	0.46
22:O:59:LEU:HD13	22:O:86:LEU:HD13	1.98	0.46
22:O:68:LYS:O	22:O:71:ASP:N	2.49	0.46
22:O:176:SER:HG	22:O:177:GLN:H	1.64	0.46
22:O:314:SER:O	22:O:317:THR:OG1	2.28	0.46
23:P:97:ILE:O	23:P:100:VAL:HB	2.16	0.46
23:P:187:SER:O	23:P:191:GLY:N	2.48	0.46
24:Q:236:PHE:HB2	24:Q:268:SER:HB3	1.97	0.46
24:Q:405:GLN:NE2	25:R:394:ASP:C	2.72	0.46
25:R:67:CYS:HA	25:R:92:ILE:CG1	2.45	0.46
25:R:239:THR:OG1	25:R:244:THR:HG23	2.15	0.46
25:R:384:VAL:HG21	26:S:403:SER:N	2.31	0.46
25:R:414:LEU:HB3	26:S:471:LEU:HG	1.97	0.46
26:S:22:GLU:N	26:S:22:GLU:CD	2.73	0.46
26:S:211:ARG:NH2	26:S:240:ASP:HB3	2.28	0.46
26:S:379:LEU:HD23	26:S:380:CYS:N	2.31	0.46
27:T:51:TYR:O	27:T:56:MET:N	2.48	0.46
28:U:124:ASP:HB3	28:U:133:PRO:CB	2.46	0.46
28:U:141:GLU:O	28:U:151:GLU:O	2.34	0.46
28:U:165:GLU:HA	28:U:168:GLU:CB	2.44	0.46
29:V:87:PHE:O	29:V:90:LYS:HB2	2.16	0.46
29:V:157:ARG:HB3	29:V:199:LEU:HD11	1.96	0.46
31:X:109:LEU:HB2	31:X:118:ASP:CG	2.40	0.46
33:Z:243:GLN:O	33:Z:280:ASP:HB2	2.15	0.46
33:Z:285:ALA:HB1	33:Z:294:ILE:HG12	1.97	0.46
33:Z:437:ASP:HA	33:Z:440:LEU:HB3	1.96	0.46
33:Z:758:LEU:HD13	33:Z:787:ASP:CG	2.40	0.46
33:Z:927:VAL:HG21	33:Z:966:GLU:OE1	2.16	0.46
8:a:163:TYR:CE1	9:b:83:ARG:HD3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:178:ILE:O	8:a:182:LEU:HG	2.15	0.46
11:d:157:SER:HB2	12:e:63:SER:OG	2.16	0.46
11:d:169:LYS:HZ2	11:d:172:ARG:CD	2.24	0.46
11:d:196:VAL:HA	11:d:199:LEU:HD12	1.98	0.46
12:e:16:SER:O	12:e:19:GLY:N	2.44	0.46
12:e:81:LEU:O	12:e:140:VAL:HB	2.15	0.46
12:e:119:LEU:HA	12:e:122:ARG:HD2	1.97	0.46
13:f:177:ASP:O	13:f:181:LYS:HD3	2.15	0.46
13:f:187:ASP:O	13:f:191:LYS:HG3	2.15	0.46
14:g:8:TYR:CD1	14:g:17:PRO:HD3	2.50	0.46
14:g:33:ASN:CA	14:g:167:LYS:HZ3	2.23	0.46
14:g:102:LEU:HD23	14:g:103:TYR:CE2	2.49	0.46
4:i:153:TYR:CD2	4:i:167:LEU:HB3	2.50	0.46
6:k:41:HIS:HB3	6:k:107:TYR:O	2.16	0.46
2:2:34:THR:N	2:2:142:PRO:HD2	2.31	0.46
2:2:109:TYR:CG	14:g:93:ARG:HD3	2.51	0.46
3:3:60:ILE:HA	3:3:120:GLY:HA3	1.98	0.46
3:3:104:LEU:O	3:3:108:ASN:N	2.38	0.46
4:4:220:LEU:HB3	4:4:222:PRO:HD3	1.97	0.46
5:5:40:PHE:CE2	5:5:42:LYS:HG2	2.50	0.46
5:5:118:LYS:NZ	5:5:120:PHE:HB2	2.30	0.46
6:6:9:VAL:HG22	6:6:12:SER:O	2.16	0.46
1:8:110:ARG:CB	12:E:104:ASP:HB2	2.46	0.46
2:9:222:ALA:HB1	3:h:186:GLY:C	2.40	0.46
9:B:9:LEU:HD12	9:B:127:VAL:O	2.15	0.46
9:B:10:THR:OG1	9:B:20:GLN:HB2	2.15	0.46
9:B:242:GLU:O	9:B:245:ASP:HB2	2.15	0.46
10:C:2:GLY:HA2	13:F:9:ASP:OD2	2.16	0.46
10:C:18:ARG:CZ	11:D:29:ARG:NE	2.79	0.46
10:C:175:LEU:O	10:C:178:MET:HB3	2.16	0.46
12:E:156:PHE:CE1	12:E:166:ARG:HB2	2.50	0.46
12:E:211:LYS:C	12:E:216:ASN:HD21	2.19	0.46
12:E:226:ASP:HB3	12:E:229:LYS:HE3	1.97	0.46
13:F:136:GLY:CA	13:F:216:VAL:HG11	2.46	0.46
14:G:40:ILE:N	14:G:47:VAL:O	2.41	0.46
15:H:156:VAL:HG11	20:M:163:PHE:CG	2.51	0.46
16:I:94:LYS:O	16:I:98:GLU:N	2.39	0.46
16:I:100:ARG:NH2	16:I:148:LEU:HD22	2.30	0.46
16:I:175:LYS:HA	16:I:242:ALA:O	2.16	0.46
16:I:175:LYS:NZ	33:Z:790:MET:SD	2.74	0.46
16:I:196:GLU:HA	16:I:200:LEU:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:309:LEU:O	16:I:313:LEU:N	2.47	0.46
17:J:214:SER:N	17:J:248:ASP:HB2	2.31	0.46
17:J:361:VAL:N	17:J:389:VAL:HG21	2.30	0.46
18:K:291:GLU:HB3	18:K:295:ILE:HD12	1.97	0.46
18:K:342:SER:HA	18:K:344:ARG:NH1	2.31	0.46
19:L:88:TYR:CZ	20:M:26:SER:HA	2.51	0.46
20:M:375:ASN:HD22	20:M:378:GLU:HG3	1.81	0.46
21:N:36:TRP:CG	21:N:37:SER:N	2.83	0.46
21:N:338:PHE:HB3	21:N:708:ALA:HA	1.98	0.46
21:N:365:PHE:HD1	21:N:399:PHE:O	1.98	0.46
21:N:473:ASP:HB3	21:N:510:HIS:CE1	2.50	0.46
21:N:474:SER:O	21:N:478:GLY:N	2.49	0.46
21:N:585:ARG:HE	21:N:619:CYS:HB2	1.80	0.46
21:N:680:LYS:HG2	21:N:684:SER:OG	2.15	0.46
22:O:27:GLU:HA	22:O:58:ARG:HH22	1.80	0.46
22:O:92:PHE:CD2	22:O:96:LEU:HD22	2.49	0.46
22:O:326:HIS:HA	22:O:329:MET:HB3	1.97	0.46
23:P:133:GLU:N	23:P:136:ARG:HE	2.12	0.46
23:P:184:MET:HE1	23:P:220:TYR:CE1	2.51	0.46
24:Q:75:ARG:C	24:Q:120:LYS:NZ	2.74	0.46
24:Q:98:LYS:HG2	24:Q:102:GLU:CD	2.40	0.46
24:Q:124:PHE:HA	24:Q:127:ARG:CG	2.38	0.46
24:Q:227:CYS:HB3	24:Q:334:HIS:CE1	2.50	0.46
25:R:152:LYS:O	25:R:156:LYS:NZ	2.41	0.46
26:S:13:SER:HA	26:S:16:ASN:ND2	2.29	0.46
26:S:131:THR:HA	26:S:134:ILE:HD12	1.98	0.46
26:S:237:ILE:O	26:S:240:ASP:HB2	2.16	0.46
26:S:425:ARG:HD2	27:T:156:SER:H	1.81	0.46
26:S:479:MET:CG	26:S:483:GLU:OE1	2.59	0.46
27:T:213:ASN:HB3	27:T:216:GLU:CG	2.41	0.46
28:U:94:HIS:CE1	28:U:122:ILE:HA	2.50	0.46
28:U:165:GLU:O	28:U:169:ILE:N	2.48	0.46
30:W:9:VAL:HG11	30:W:87:MET:SD	2.55	0.46
30:W:55:ALA:O	30:W:86:HIS:CD2	2.68	0.46
31:X:35:ILE:HG23	31:X:48:PHE:CD1	2.51	0.46
33:Z:479:THR:HG23	33:Z:508:LEU:HD22	1.98	0.46
8:a:199:TRP:O	8:a:203:VAL:HG23	2.14	0.46
10:c:93:ILE:HG22	10:c:97:ASN:ND2	2.31	0.46
10:c:94:HIS:O	10:c:97:ASN:HB2	2.16	0.46
10:c:175:LEU:O	10:c:178:MET:HB3	2.16	0.46
13:f:136:GLY:CA	13:f:216:VAL:HG11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:195:GLU:HG2	13:f:199:GLN:HE21	1.80	0.46
3:h:133:PRO:HD2	3:h:137:SER:O	2.14	0.46
4:i:77:THR:O	4:i:80:ASP:HB2	2.16	0.46
5:j:31:SER:O	5:j:34:LEU:HB3	2.15	0.46
5:j:85:GLU:O	5:j:88:THR:HB	2.14	0.46
6:k:120:ASP:CG	6:k:122:LEU:HB2	2.40	0.46
4:4:42:VAL:HA	4:4:206:VAL:HA	1.97	0.46
5:5:24:ALA:C	5:5:43:ILE:HD11	2.41	0.46
5:5:120:PHE:CE1	5:5:132:GLU:OE2	2.68	0.46
6:6:167:GLU:OE2	7:l:212:TYR:HB3	2.15	0.46
2:9:58:ASP:OD1	2:9:74:ARG:NE	2.37	0.46
2:9:226:ARG:NH1	3:h:210:ASP:OD1	2.49	0.46
8:A:46:ARG:HG3	8:A:154:ILE:HG13	1.97	0.46
8:A:84:ASN:O	8:A:140:ILE:N	2.35	0.46
8:A:126:GLN:OE1	9:B:84:VAL:HG13	2.16	0.46
8:A:178:ILE:O	8:A:182:LEU:HG	2.15	0.46
10:C:94:HIS:CD2	10:C:114:ARG:HG2	2.50	0.46
10:C:196:THR:CA	10:C:199:LYS:HD3	2.45	0.46
11:D:42:VAL:HB	11:D:215:VAL:CG1	2.46	0.46
11:D:214:VAL:HB	11:D:222:VAL:CG1	2.46	0.46
11:D:216:LYS:HB2	11:D:220:ASP:HB3	1.98	0.46
12:E:41:ALA:HA	12:E:46:VAL:HG22	1.97	0.46
12:E:240:ILE:CA	12:E:243:LEU:CG	2.94	0.46
13:F:26:LEU:HA	13:F:29:ILE:CD1	2.46	0.46
13:F:157:TYR:CZ	14:G:60:VAL:HG13	2.50	0.46
13:F:171:TYR:O	13:F:174:ARG:HB3	2.15	0.46
14:G:9:ASP:HB2	14:G:26:TYR:CE2	2.50	0.46
14:G:11:SER:HB2	14:G:14:VAL:CG2	2.46	0.46
14:G:171:SER:O	14:G:175:GLU:HG2	2.16	0.46
14:G:179:LEU:HD23	14:G:182:HIS:HB2	1.98	0.46
15:H:168:ILE:HG12	15:H:186:PRO:CG	2.42	0.46
15:H:170:GLU:HB3	15:H:171:GLY:H	1.44	0.46
16:I:120:VAL:HG22	16:I:128:TYR:H	1.81	0.46
16:I:185:GLY:HA3	16:I:361:ILE:HG13	1.97	0.46
16:I:261:PRO:O	16:I:265:ARG:N	2.36	0.46
16:I:261:PRO:HG3	16:I:304:ARG:O	2.15	0.46
18:K:215:PRO:O	18:K:217:THR:HG23	2.15	0.46
18:K:346:ARG:O	18:K:372:ILE:HD11	2.15	0.46
19:L:130:GLY:H	19:L:154:THR:HG22	1.80	0.46
20:M:182:ASP:O	20:M:363:ILE:HD13	2.15	0.46
20:M:386:PHE:CZ	20:M:423:GLN:HB2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:365:PHE:HZ	21:N:448:LEU:HD12	1.81	0.46
21:N:426:ILE:HA	21:N:429:GLU:OE1	2.15	0.46
21:N:679:ASN:HA	21:N:682:PHE:CD2	2.50	0.46
22:O:4:ASN:ND2	22:O:30:GLU:OE2	2.48	0.46
22:O:82:LEU:C	22:O:84:ALA:N	2.72	0.46
22:O:306:ARG:CZ	22:O:351:SER:HA	2.46	0.46
22:O:371:VAL:HA	22:O:374:ASN:HB3	1.97	0.46
24:Q:174:LEU:HG	24:Q:178:HIS:CE1	2.50	0.46
24:Q:214:THR:HA	24:Q:217:GLU:HB2	1.96	0.46
24:Q:267:LEU:HD22	24:Q:331:THR:OG1	2.16	0.46
24:Q:278:VAL:HA	24:Q:281:ILE:HD12	1.97	0.46
24:Q:317:ALA:O	24:Q:321:TYR:HD2	1.99	0.46
25:R:71:LEU:CD1	25:R:76:GLN:HA	2.45	0.46
25:R:95:ASP:CG	25:R:97:GLU:HB2	2.41	0.46
26:S:280:ASN:CB	26:S:289:ALA:HB2	2.43	0.46
26:S:329:GLU:C	26:S:331:SER:N	2.71	0.46
26:S:330:LEU:HD12	26:S:346:TYR:HA	1.98	0.46
26:S:439:GLU:CD	27:T:201:PRO:HD3	2.41	0.46
26:S:451:ILE:HG13	26:S:453:ASP:CG	2.40	0.46
27:T:160:ALA:HA	27:T:163:LEU:HD12	1.97	0.46
27:T:260:ILE:O	27:T:264:MET:HG3	2.15	0.46
28:U:75:ASN:HA	28:U:78:GLU:CD	2.41	0.46
28:U:263:LYS:O	28:U:266:THR:N	2.23	0.46
29:V:26:THR:HB	29:V:28:TYR:OH	2.16	0.46
30:W:27:GLU:HA	30:W:30:ILE:CD1	2.46	0.46
30:W:67:ALA:C	30:W:71:LYS:HZ2	2.00	0.46
31:X:51:ARG:CZ	31:X:51:ARG:HB2	2.45	0.46
33:Z:151:HIS:ND1	33:Z:152:GLU:N	2.64	0.46
33:Z:303:ASP:O	33:Z:307:HIS:N	2.24	0.46
33:Z:312:TYR:CE1	33:Z:914:LEU:HD23	2.51	0.46
33:Z:386:VAL:O	33:Z:390:LEU:N	2.49	0.46
33:Z:456:GLY:N	33:Z:474:LEU:HD22	2.30	0.46
33:Z:841:GLU:O	33:Z:845:LEU:N	2.29	0.46
8:a:148:GLU:CD	4:i:104:ARG:HH22	2.24	0.46
10:c:70:ASN:HB3	10:c:73:ILE:HB	1.98	0.46
12:e:70:ILE:HB	12:e:74:ILE:HG22	1.97	0.46
13:f:187:ASP:O	13:f:191:LYS:N	2.33	0.46
3:h:182:ILE:HG23	3:h:189:GLY:HA2	1.97	0.46
4:i:201:ASN:HB3	4:i:221:THR:HG22	1.98	0.46
6:k:139:TYR:HE2	6:k:172:MET:HB2	1.79	0.46
7:l:104:GLN:NE2	7:l:248:GLY:H	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:119:THR:HG1	7:l:175:MET:H	1.56	0.46
7:l:189:TYR:HD2	7:l:197:LEU:HD12	1.79	0.46
7:l:226:GLU:HA	7:l:229:LEU:HD12	1.96	0.46
7:l:271:LEU:O	7:l:274:LYS:HB3	2.16	0.46
1:1:213:ARG:CZ	4:4:58:LYS:HE2	2.46	0.46
2:2:43:SER:C	2:2:74:ARG:HH12	2.24	0.46
2:2:46:SER:O	2:2:175:LEU:N	2.45	0.46
3:3:68:ALA:HA	3:3:71:THR:OG1	2.16	0.46
3:3:208:TYR:O	3:3:211:GLU:HB3	2.15	0.46
4:4:38:ASN:OD1	4:4:39:ASN:N	2.45	0.46
4:4:79:ALA:HB2	5:5:129:CYS:HB2	1.97	0.46
4:4:201:ASN:HB3	4:4:221:THR:HG22	1.98	0.46
5:5:26:ASP:OD2	5:5:181:SER:HA	2.16	0.46
5:5:66:MET:O	5:5:70:LYS:HG3	2.16	0.46
7:7:141:HIS:HA	7:7:144:ARG:NH2	2.31	0.46
7:7:180:THR:OG1	7:7:183:GLU:HB2	2.14	0.46
7:7:243:ASP:OD1	7:7:245:TYR:N	2.38	0.46
1:8:62:VAL:HG12	1:8:224:LEU:HD22	1.97	0.46
2:9:192:VAL:HB	2:9:197:ASP:HB2	1.97	0.46
8:A:39:ASN:OD1	8:A:173:PRO:HG2	2.16	0.46
9:B:4:ARG:HD3	13:F:123:TYR:HD2	1.80	0.46
9:B:196:LEU:O	9:B:200:VAL:HG23	2.16	0.46
11:D:14:ASP:CG	11:D:16:HIS:CD2	2.91	0.46
12:E:35:SER:CB	12:E:66:LYS:NZ	2.76	0.46
12:E:83:ALA:O	12:E:86:ARG:HG2	2.15	0.46
14:G:112:PHE:CE2	14:G:116:LEU:HD11	2.50	0.46
14:G:198:LYS:HZ2	14:G:199:ILE:CG1	2.28	0.46
15:H:191:ILE:HG12	15:H:192:ASP:O	2.16	0.46
16:I:132:ILE:CG2	16:I:138:LYS:HZ2	2.28	0.46
16:I:247:ILE:O	16:I:282:ASP:N	2.34	0.46
17:J:52:ASN:HB3	21:N:611:LYS:CE	2.45	0.46
18:K:96:ILE:HB	18:K:113:THR:HG21	1.97	0.46
18:K:363:ALA:CA	18:K:401:VAL:HB	2.46	0.46
19:L:218:VAL:HG23	19:L:324:ILE:HA	1.98	0.46
19:L:251:ILE:CG2	19:L:259:SER:HA	2.45	0.46
19:L:393:ASN:HB3	19:L:397:GLU:HG2	1.98	0.46
20:M:18:LEU:O	20:M:22:ILE:N	2.46	0.46
20:M:383:THR:HG22	20:M:423:GLN:OE1	2.16	0.46
21:N:309:ILE:O	21:N:339:MET:HE3	2.15	0.46
21:N:323:GLY:O	21:N:328:PHE:HB3	2.16	0.46
21:N:364:LYS:HB3	21:N:400:ILE:CG1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:377:GLY:H	21:N:411:ILE:HG23	1.80	0.46
22:O:60:ARG:O	22:O:63:ASP:HB3	2.15	0.46
22:O:82:LEU:O	22:O:86:LEU:N	2.49	0.46
22:O:303:LYS:HD3	28:U:260:ASN:ND2	2.31	0.46
22:O:367:LYS:HZ2	28:U:201:GLN:NE2	2.14	0.46
23:P:123:ARG:HB3	23:P:127:GLU:HB3	1.96	0.46
23:P:223:LEU:N	23:P:226:LYS:NZ	2.64	0.46
23:P:254:GLU:O	23:P:258:LYS:N	2.48	0.46
23:P:394:ASN:HD22	23:P:397:ALA:CB	2.27	0.46
24:Q:275:ILE:HG22	24:Q:279:LYS:HZ2	1.81	0.46
24:Q:275:ILE:HD11	24:Q:306:TYR:HD2	1.79	0.46
24:Q:332:ARG:HD2	24:Q:336:ASN:HD21	1.80	0.46
25:R:271:ILE:HG23	25:R:272:ASP:H	1.81	0.46
25:R:381:ILE:N	26:S:398:THR:O	2.48	0.46
26:S:146:LEU:HD23	26:S:150:LYS:HA	1.97	0.46
26:S:155:LEU:HA	26:S:155:LEU:HD23	1.65	0.46
26:S:338:MET:HG3	26:S:343:LEU:H	1.80	0.46
26:S:338:MET:CA	26:S:341:SER:H	2.29	0.46
26:S:358:LYS:O	26:S:362:SER:N	2.34	0.46
27:T:86:LYS:CA	27:T:89:TYR:HB3	2.46	0.46
27:T:187:ASP:OD1	27:T:224:ARG:NH2	2.49	0.46
28:U:27:THR:HG23	28:U:31:LYS:CB	2.45	0.46
28:U:126:LYS:O	29:V:208:LYS:NZ	2.48	0.46
29:V:108:TYR:HB2	29:V:139:VAL:HB	1.97	0.46
33:Z:246:CYS:O	33:Z:249:MET:HB2	2.16	0.46
33:Z:318:LYS:HB2	33:Z:874:ASN:OD1	2.16	0.46
33:Z:440:LEU:HD21	33:Z:477:TYR:CD1	2.51	0.46
33:Z:496:ALA:O	33:Z:500:SER:HB2	2.16	0.46
33:Z:889:VAL:HB	33:Z:895:LEU:HA	1.98	0.46
8:a:167:LYS:N	9:b:55:LEU:O	2.41	0.46
10:c:207:THR:HA	10:c:239:LEU:HD21	1.98	0.46
12:e:21:LEU:O	12:e:25:GLU:HG2	2.15	0.46
14:g:30:ALA:O	14:g:33:ASN:HB3	2.15	0.46
14:g:169:ARG:CB	14:g:173:LYS:HE3	2.46	0.46
3:h:70:ASP:O	3:h:74:ILE:HG13	2.16	0.46
4:i:30:THR:HG23	4:i:62:LYS:HZ3	1.77	0.46
7:l:148:ARG:NH1	7:l:257:GLU:HG3	2.30	0.46
7:l:172:MET:O	7:l:192:SER:N	2.37	0.46
1:1:211:THR:OG1	1:1:217:VAL:HG12	2.15	0.46
2:2:48:LYS:CB	2:2:53:VAL:HG12	2.45	0.46
2:2:50:ASP:N	2:2:201:THR:O	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:69:PHE:HB2	2:2:72:VAL:HG23	1.98	0.46
2:2:162:TYR:HB2	2:2:175:LEU:HD13	1.97	0.46
2:2:254:PHE:HB2	4:4:152:TYR:CE2	2.50	0.46
4:4:65:ARG:NH1	9:B:224:TYR:CE2	2.84	0.46
1:8:213:ARG:CZ	4:i:58:LYS:HE2	2.46	0.46
2:9:69:PHE:HB2	2:9:72:VAL:HG23	1.98	0.46
2:9:137:ARG:HD3	2:9:166:LEU:O	2.16	0.46
2:9:188:LEU:HA	2:9:191:VAL:HB	1.98	0.46
9:B:7:PHE:CE1	10:C:7:ASP:HA	2.51	0.46
9:B:188:ALA:HA	9:B:191:ILE:HD12	1.98	0.46
10:C:44:ILE:HG13	10:C:146:TYR:CD1	2.50	0.46
10:C:50:ARG:HG3	10:C:211:LEU:C	2.41	0.46
12:E:91:HIS:O	12:E:94:THR:HB	2.16	0.46
13:F:17:GLY:O	14:G:30:ALA:HB2	2.16	0.46
13:F:23:GLU:HA	13:F:26:LEU:HB2	1.96	0.46
13:F:218:LYS:HB2	13:F:218:LYS:HE3	1.74	0.46
14:G:8:TYR:HA	14:G:14:VAL:HG11	1.98	0.46
14:G:169:ARG:CB	14:G:173:LYS:HE3	2.46	0.46
14:G:233:GLY:O	14:G:236:LEU:HB3	2.16	0.46
15:H:298:ALA:HB2	15:H:306:ILE:HD11	1.98	0.46
15:H:353:PHE:CE2	15:H:371:ILE:HD11	2.50	0.46
16:I:102:ASN:HA	16:I:103:PRO:C	2.41	0.46
16:I:137:ASP:OD1	16:I:138:LYS:N	2.49	0.46
17:J:26:LYS:NZ	21:N:107:GLU:N	2.44	0.46
18:K:85:GLU:O	18:K:89:ILE:N	2.45	0.46
18:K:408:GLU:O	18:K:412:ALA:N	2.44	0.46
19:L:92:GLU:HB2	20:M:29:GLU:CD	2.41	0.46
19:L:178:ILE:HD11	19:L:182:GLY:HA3	1.96	0.46
19:L:226:THR:HB	19:L:352:PRO:HD3	1.97	0.46
19:L:257:GLY:H	19:L:303:ARG:NE	2.14	0.46
19:L:401:PHE:O	19:L:405:ASP:N	2.33	0.46
20:M:411:LYS:HG2	20:M:414:ASP:CG	2.41	0.46
21:N:34:GLN:OE1	26:S:208:ILE:HG23	2.16	0.46
21:N:75:TYR:HB3	21:N:104:LYS:HE2	1.97	0.46
21:N:450:ILE:HG23	21:N:451:GLY:N	2.24	0.46
22:O:44:SER:N	22:O:47:LYS:HG2	2.30	0.46
22:O:190:TYR:CA	22:O:193:LEU:HB3	2.42	0.46
22:O:336:LEU:HD23	22:O:337:LEU:HA	1.98	0.46
23:P:91:LEU:HA	23:P:130:ILE:CD1	2.44	0.46
23:P:123:ARG:HD2	23:P:127:GLU:CD	2.41	0.46
23:P:188:ILE:O	23:P:191:GLY:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:361:THR:O	23:P:365:LEU:HG	2.15	0.46
23:P:435:LYS:NZ	28:U:155:LEU:HD12	2.30	0.46
24:Q:286:TYR:C	24:Q:289:GLU:H	2.23	0.46
24:Q:312:LEU:HG	24:Q:316:THR:OG1	2.16	0.46
25:R:62:TYR:CD2	25:R:66:LEU:HB2	2.51	0.46
25:R:68:GLU:OE2	25:R:81:HIS:CE1	2.69	0.46
25:R:89:ASN:ND2	25:R:92:ILE:HB	2.31	0.46
25:R:109:LYS:HD3	25:R:140:TYR:CD1	2.50	0.46
25:R:165:GLY:O	25:R:168:ILE:HB	2.16	0.46
25:R:222:ARG:HA	25:R:224:PHE:CE2	2.50	0.46
25:R:342:LEU:HD21	25:R:390:THR:HG23	1.97	0.46
25:R:395:ASN:OD1	25:R:396:LYS:N	2.49	0.46
25:R:407:GLY:O	25:R:411:LEU:HG	2.15	0.46
26:S:4:THR:HA	26:S:7:MET:HB2	1.97	0.46
26:S:360:PHE:HD2	26:S:384:ARG:NH1	2.14	0.46
26:S:382:ARG:HD2	27:T:153:MET:SD	2.55	0.46
28:U:12:PRO:O	28:U:16:LEU:HD13	2.16	0.46
28:U:33:CYS:O	28:U:95:SER:N	2.48	0.46
28:U:168:GLU:CA	28:U:171:VAL:HB	2.45	0.46
29:V:60:ASP:C	29:V:62:THR:H	2.24	0.46
29:V:113:GLY:H	29:V:142:ASP:CG	2.24	0.46
29:V:205:LYS:HE2	29:V:205:LYS:HB2	1.80	0.46
31:X:85:ARG:NH1	31:X:87:PHE:CD1	2.84	0.46
33:Z:181:GLY:HA2	33:Z:263:ALA:HA	1.97	0.46
33:Z:293:MET:O	33:Z:297:VAL:HG23	2.16	0.46
33:Z:295:ARG:O	33:Z:299:ASP:N	2.24	0.46
33:Z:301:THR:HG23	33:Z:306:MET:HG2	1.97	0.46
33:Z:373:GLY:HA3	33:Z:406:TRP:CE2	2.51	0.46
33:Z:493:LEU:HD23	33:Z:497:PHE:CE2	2.50	0.46
33:Z:781:GLY:O	33:Z:785:VAL:HG22	2.15	0.46
8:a:39:ASN:OD1	8:a:173:PRO:HG2	2.16	0.46
8:a:157:THR:HG22	8:a:163:TYR:HB3	1.96	0.46
9:b:88:LYS:O	9:b:92:VAL:HG12	2.16	0.46
9:b:139:HIS:HB2	9:b:145:PHE:CD1	2.50	0.46
10:c:196:THR:CA	10:c:199:LYS:HD3	2.45	0.46
12:e:13:SER:HB2	13:f:126:ARG:HD3	1.97	0.46
12:e:211:LYS:C	12:e:216:ASN:HD21	2.19	0.46
13:f:198:SER:O	13:f:201:LEU:HB2	2.16	0.46
13:f:226:ASP:HA	13:f:230:VAL:HG13	1.97	0.46
14:g:11:SER:HB2	14:g:14:VAL:CG2	2.46	0.46
14:g:170:GLN:NE2	14:g:173:LYS:HZ1	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:201:TYR:O	14:g:204:HIS:HB3	2.15	0.46
3:h:15:GLU:HA	4:i:147:SER:OG	2.16	0.46
4:i:220:LEU:HB3	4:i:222:PRO:HD3	1.96	0.46
5:j:53:ILE:HB	5:j:60:VAL:HG13	1.97	0.46
7:l:81:PHE:CE2	7:l:228:ALA:HB1	2.51	0.46
1:1:28:GLY:HA3	1:1:49:ILE:HG13	1.97	0.46
1:1:179:TYR:CD1	1:1:188:LYS:HA	2.51	0.46
2:2:58:ASP:OD1	2:2:74:ARG:NE	2.37	0.46
2:2:89:ASP:HB3	2:2:92:ASP:HB2	1.98	0.46
3:3:70:ASP:O	3:3:74:ILE:HG13	2.16	0.46
3:3:167:LYS:O	3:3:171:VAL:HG23	2.16	0.46
4:4:121:GLY:HA3	4:4:145:HIS:ND1	2.31	0.46
5:5:120:PHE:HE1	5:5:132:GLU:OE2	1.99	0.46
7:7:152:ALA:HB1	11:D:101:GLU:OE1	2.16	0.46
7:7:217:SER:OG	7:7:218:ASN:N	2.49	0.46
7:7:250:VAL:O	7:7:265:ASN:HA	2.16	0.46
1:8:47:ARG:NH1	1:8:215:ILE:O	2.49	0.46
1:8:92:LYS:HZ3	13:F:93:ASN:CB	2.28	0.46
2:9:89:ASP:HB3	2:9:92:ASP:HB2	1.98	0.46
2:9:261:TYR:CG	3:h:72:GLN:HG2	2.51	0.46
8:A:37:GLN:NE2	14:G:20:ARG:HG2	2.28	0.46
8:A:227:VAL:N	8:A:234:PHE:O	2.37	0.46
9:B:85:LEU:HD21	9:B:130:PHE:CZ	2.50	0.46
9:B:88:LYS:O	9:B:92:VAL:HG12	2.16	0.46
9:B:184:GLU:HB3	9:B:187:ASP:CG	2.39	0.46
9:B:188:ALA:O	9:B:192:ALA:N	2.31	0.46
10:C:48:ALA:HB1	10:C:65:LYS:CE	2.46	0.46
11:D:116:VAL:O	11:D:119:ARG:HB3	2.16	0.46
11:D:148:TYR:HA	11:D:157:SER:O	2.16	0.46
12:E:21:LEU:O	12:E:25:GLU:HG2	2.15	0.46
14:G:88:LEU:HD13	14:G:119:TYR:CD2	2.51	0.46
15:H:340:LEU:HB3	15:H:370:ARG:HH22	1.81	0.46
16:I:132:ILE:CB	16:I:138:LYS:HZ2	2.29	0.46
16:I:174:ASP:OD1	16:I:175:LYS:N	2.48	0.46
16:I:236:VAL:O	16:I:240:THR:N	2.27	0.46
18:K:344:ARG:HA	18:K:348:GLU:OE1	2.16	0.46
19:L:99:GLN:HG3	28:U:85:ALA:N	2.30	0.46
21:N:79:VAL:O	21:N:83:LEU:N	2.28	0.46
21:N:203:ARG:HA	21:N:206:ILE:HG12	1.97	0.46
21:N:276:GLU:O	21:N:280:GLN:HG2	2.16	0.46
21:N:362:TRP:O	21:N:365:PHE:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:525:ASN:HB2	21:N:554:THR:HG23	1.98	0.46
21:N:533:ASP:CA	21:N:536:ILE:HB	2.43	0.46
21:N:884:PHE:CE2	21:N:896:PHE:HA	2.49	0.46
22:O:217:LEU:O	22:O:220:SER:N	2.49	0.46
22:O:272:VAL:HG13	22:O:273:GLN:N	2.31	0.46
22:O:310:PHE:CE2	22:O:346:GLU:HA	2.50	0.46
22:O:367:LYS:NZ	28:U:201:GLN:HE22	2.13	0.46
23:P:109:SER:OG	23:P:110:LEU:N	2.46	0.46
23:P:287:ASP:OD1	23:P:297:GLU:HB3	2.16	0.46
23:P:291:LYS:HB2	23:P:293:LEU:HD22	1.97	0.46
23:P:320:PRO:HD2	23:P:322:LEU:HB2	1.98	0.46
23:P:363:LEU:O	23:P:367:GLU:HG3	2.16	0.46
23:P:421:GLU:O	23:P:424:GLU:HB3	2.15	0.46
24:Q:348:CYS:O	24:Q:352:GLU:HG3	2.16	0.46
25:R:144:ILE:HG21	25:R:146:ASP:OD2	2.15	0.46
25:R:263:ARG:NE	25:R:297:TYR:HE1	2.09	0.46
26:S:237:ILE:O	26:S:241:PHE:N	2.37	0.46
27:T:76:ASP:O	27:T:77:SER:C	2.59	0.46
28:U:55:PRO:HD2	28:U:72:TYR:CD2	2.51	0.46
28:U:192:ASN:CA	29:V:232:GLU:OE2	2.64	0.46
29:V:26:THR:HG23	29:V:61:TYR:HB3	1.98	0.46
29:V:281:SER:C	29:V:283:THR:N	2.73	0.46
31:X:12:ALA:HB3	31:X:33:ILE:HG22	1.98	0.46
33:Z:328:ASP:CA	33:Z:332:ASN:H	2.28	0.46
33:Z:342:LEU:H	33:Z:345:GLU:HB2	1.79	0.46
33:Z:360:SER:OG	33:Z:361:HIS:N	2.49	0.46
33:Z:400:ILE:CG2	33:Z:422:ILE:HG12	2.46	0.46
33:Z:433:LEU:HD23	33:Z:455:ILE:HG12	1.97	0.46
33:Z:445:PRO:HB2	33:Z:484:LYS:HB2	1.98	0.46
8:a:41:ASN:H	8:a:56:GLN:CD	2.19	0.46
9:b:27:ALA:O	9:b:30:GLN:HB2	2.16	0.46
9:b:85:LEU:HD21	9:b:130:PHE:CZ	2.50	0.46
10:c:48:ALA:HB1	10:c:65:LYS:CE	2.46	0.46
11:d:35:GLY:O	11:d:162:GLN:N	2.30	0.46
11:d:116:VAL:O	11:d:119:ARG:HB3	2.16	0.46
12:e:192:THR:OG1	12:e:195:GLU:HG3	2.16	0.46
13:f:121:GLN:HA	14:g:130:ARG:NE	2.31	0.46
13:f:146:GLU:O	13:f:153:VAL:HA	2.16	0.46
13:f:217:GLY:HA3	13:f:220:THR:HB	1.97	0.46
3:h:56:VAL:HG11	3:h:101:PHE:CZ	2.47	0.46
3:h:167:LYS:O	3:h:171:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j:59:ASP:O	5:j:63:LEU:HG	2.16	0.46
6:k:115:GLU:HB3	6:k:117:TYR:CE1	2.51	0.46
6:k:182:LYS:HG2	6:k:191:GLN:HA	1.98	0.46
1:1:62:VAL:HG12	1:1:224:LEU:HD22	1.97	0.46
2:2:133:MET:HE1	2:2:143:LEU:O	2.15	0.46
5:5:31:SER:O	5:5:34:LEU:HB3	2.16	0.46
5:5:113:ASN:N	5:5:118:LYS:O	2.39	0.46
5:5:171:LEU:O	5:5:175:ALA:N	2.37	0.46
6:6:91:SER:HA	6:6:94:SER:HB3	1.97	0.46
6:6:182:LYS:HG2	6:6:191:GLN:HA	1.98	0.46
7:7:129:PHE:CD1	7:7:130:TRP:N	2.84	0.46
7:7:133:TRP:CE3	7:7:134:LEU:HA	2.51	0.46
1:8:215:ILE:HD12	4:i:196:LEU:HB3	1.97	0.46
2:9:34:THR:N	2:9:142:PRO:HD2	2.31	0.46
2:9:131:THR:HG22	2:9:135:GLN:NE2	2.31	0.46
2:9:220:ARG:NH2	4:i:168:GLU:OE2	2.49	0.46
2:9:226:ARG:NE	2:9:247:VAL:O	2.38	0.46
8:A:20:SER:OG	8:A:24:ARG:N	2.48	0.46
8:A:130:GLN:HG3	9:B:128:ARG:O	2.15	0.46
9:B:38:LYS:HE2	9:B:160:LYS:HA	1.98	0.46
10:C:69:LEU:HD21	10:C:88:ILE:HA	1.97	0.46
10:C:194:LEU:HD23	10:C:197:LEU:HD12	1.98	0.46
10:C:196:THR:O	10:C:200:THR:OG1	2.30	0.46
12:E:56:SER:O	12:E:59:LEU:HB3	2.16	0.46
12:E:73:HIS:NE2	12:E:106:ASP:HB3	2.31	0.46
12:E:85:ALA:O	12:E:89:ILE:N	2.34	0.46
13:F:11:VAL:CG2	14:G:128:SER:C	2.56	0.46
13:F:11:VAL:C	14:G:130:ARG:HD3	2.40	0.46
13:F:40:SER:HB2	13:F:183:ASP:OD1	2.15	0.46
13:F:195:GLU:HG2	13:F:199:GLN:HE21	1.80	0.46
13:F:217:GLY:HA3	13:F:220:THR:HB	1.97	0.46
14:G:28:VAL:HA	14:G:31:VAL:HB	1.97	0.46
15:H:101:ARG:HG2	15:H:150:LYS:HE2	1.98	0.46
15:H:194:SER:OG	15:H:195:VAL:N	2.49	0.46
15:H:272:ILE:N	15:H:305:ILE:O	2.33	0.46
15:H:288:ALA:CA	15:H:335:GLU:HG2	2.43	0.46
16:I:163:ASP:HB2	17:J:77:LYS:HE2	1.98	0.46
16:I:403:ALA:CB	16:I:411:VAL:HG22	2.46	0.46
16:I:422:ARG:HB3	17:J:307:PRO:CD	2.47	0.46
17:J:79:VAL:HG12	17:J:80:SER:N	2.31	0.46
17:J:87:LYS:HG2	17:J:88:VAL:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:337:LEU:CA	17:J:377:VAL:H	2.23	0.46
18:K:281:ARG:HG2	18:K:289:ASP:HB3	1.98	0.46
18:K:283:ASP:HB3	18:K:285:GLN:HE21	1.81	0.46
18:K:394:ALA:CB	18:K:399:ARG:HB2	2.43	0.46
19:L:65:LEU:HB3	19:L:69:ARG:HH12	1.81	0.46
19:L:242:ASN:N	19:L:276:CYS:HA	2.30	0.46
19:L:245:PHE:CE1	19:L:281:ASP:HB2	2.50	0.46
19:L:248:ALA:HB1	19:L:285:ALA:HB3	1.98	0.46
20:M:22:ILE:HA	20:M:25:LEU:HD12	1.96	0.46
20:M:178:GLU:H	20:M:237:ALA:HB2	1.80	0.46
20:M:223:PRO:HB2	20:M:351:LEU:HD21	1.98	0.46
20:M:373:ASP:HB2	20:M:412:HIS:H	1.82	0.46
21:N:20:VAL:HG11	27:T:31:LYS:HD3	1.98	0.46
21:N:90:ASP:O	21:N:93:GLU:HB2	2.16	0.46
21:N:300:ASN:O	21:N:304:LEU:HG	2.15	0.46
21:N:606:VAL:O	21:N:609:LEU:N	2.49	0.46
21:N:684:SER:O	21:N:688:ASN:N	2.37	0.46
21:N:718:GLU:CA	21:N:725:LEU:HA	2.46	0.46
23:P:325:ASP:O	23:P:337:HIS:NE2	2.49	0.46
23:P:375:GLN:O	23:P:378:THR:HB	2.16	0.46
24:Q:246:TYR:O	24:Q:250:THR:N	2.39	0.46
24:Q:413:LEU:HA	24:Q:416:VAL:CB	2.40	0.46
24:Q:415:LEU:CD1	29:V:258:GLU:HA	2.46	0.46
24:Q:418:GLN:CA	24:Q:421:LYS:NZ	2.79	0.46
25:R:191:LEU:HA	25:R:194:VAL:HG12	1.97	0.46
25:R:198:ILE:CG1	25:R:200:LYS:CG	2.51	0.46
25:R:360:SER:O	25:R:364:LEU:HB3	2.16	0.46
25:R:421:VAL:HG12	25:R:422:ARG:N	2.29	0.46
26:S:214:MET:HB3	26:S:233:LEU:HD23	1.98	0.46
26:S:217:PHE:O	26:S:220:ILE:N	2.49	0.46
26:S:241:PHE:CD2	26:S:247:VAL:HA	2.51	0.46
26:S:376:THR:HA	26:S:378:GLN:NE2	2.27	0.46
27:T:9:LYS:O	27:T:13:ILE:HG12	2.15	0.46
27:T:199:PHE:HA	27:T:234:TYR:HA	1.97	0.46
28:U:126:LYS:HA	29:V:208:LYS:NZ	2.31	0.46
28:U:283:ARG:HD3	28:U:283:ARG:O	2.17	0.46
30:W:67:ALA:CA	30:W:68:GLU:HB2	2.46	0.46
30:W:177:GLY:O	30:W:179:ARG:N	2.40	0.46
33:Z:298:PHE:HE1	33:Z:307:HIS:HE1	1.64	0.46
33:Z:506:LEU:O	33:Z:510:LEU:N	2.32	0.46
9:b:161:ALA:HB3	10:c:56:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:69:LEU:HD21	10:c:88:ILE:HA	1.97	0.46
10:c:100:LYS:HE3	10:c:100:LYS:HB3	1.68	0.46
11:d:42:VAL:N	11:d:138:PHE:HZ	2.14	0.46
12:e:154:GLN:HG2	12:e:166:ARG:CZ	2.46	0.46
12:e:167:TYR:CB	12:e:170:LYS:HB2	2.45	0.46
12:e:194:LYS:O	12:e:197:GLU:HB2	2.15	0.46
13:f:40:SER:HB2	13:f:183:ASP:OD1	2.15	0.46
14:g:88:LEU:HD13	14:g:119:TYR:CD2	2.51	0.46
14:g:233:GLY:O	14:g:236:LEU:HB3	2.16	0.46
3:h:131:THR:CG2	3:h:139:HIS:HB2	2.46	0.46
4:i:57:ASP:HB2	5:j:131:ASP:CG	2.41	0.46
5:j:24:ALA:C	5:j:43:ILE:HD11	2.41	0.46
2:2:137:ARG:HD3	2:2:166:LEU:O	2.16	0.45
2:2:192:VAL:HB	2:2:197:ASP:HB2	1.97	0.45
3:3:80:TYR:HB2	8:A:106:TYR:CD1	2.51	0.45
5:5:33:SER:HB2	7:l:243:ASP:OD1	2.15	0.45
5:5:59:ASP:O	5:5:63:LEU:HG	2.16	0.45
5:5:204:GLN:O	7:l:241:HIS:HA	2.16	0.45
6:6:3:ILE:HD12	6:6:176:PHE:CG	2.50	0.45
6:6:4:ILE:HG13	6:6:47:ALA:HB2	1.98	0.45
6:6:43:LEU:O	6:6:105:GLY:N	2.49	0.45
7:7:273:TRP:CD1	5:j:201:LYS:HE3	2.51	0.45
1:8:32:LEU:O	1:8:43:ALA:N	2.38	0.45
1:8:131:ALA:HA	1:8:140:ALA:O	2.16	0.45
1:8:133:LEU:N	1:8:226:VAL:HG11	2.31	0.45
1:8:201:LYS:HG2	4:i:229:GLN:CG	2.44	0.45
2:9:39:VAL:O	2:9:90:ILE:HG12	2.16	0.45
2:9:122:PRO:HB3	2:9:151:GLY:HA3	1.98	0.45
2:9:183:MET:C	2:9:186:PRO:HD2	2.41	0.45
8:A:29:GLU:O	8:A:32:PHE:HB2	2.16	0.45
11:D:93:ALA:O	11:D:97:ARG:HG3	2.16	0.45
12:E:44:GLU:CD	12:E:193:LEU:H	2.21	0.45
14:G:47:VAL:HG13	14:G:218:TRP:HB3	1.98	0.45
14:G:134:VAL:O	14:G:153:PRO:HG3	2.16	0.45
15:H:66:LYS:HG3	16:I:152:LYS:HE3	1.98	0.45
15:H:69:VAL:CG1	16:I:152:LYS:HB3	2.44	0.45
15:H:97:LEU:HD21	15:H:173:ARG:CB	2.42	0.45
15:H:144:LYS:N	20:M:75:LEU:H	2.13	0.45
15:H:271:PHE:HE2	15:H:273:ARG:HB2	1.81	0.45
15:H:330:GLN:HG2	20:M:250:GLN:HE22	1.80	0.45
16:I:107:GLY:O	16:I:147:VAL:N	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:387:LEU:HB3	16:I:391:ASP:HB2	1.98	0.45
17:J:32:LEU:CA	17:J:35:ARG:HB3	2.42	0.45
17:J:48:ARG:NH1	21:N:611:LYS:HD3	2.31	0.45
17:J:186:ILE:HA	17:J:292:MET:O	2.17	0.45
18:K:141:ARG:HH11	19:L:153:LEU:HD12	1.81	0.45
19:L:244:ILE:HB	19:L:278:ILE:HD13	1.97	0.45
19:L:400:PHE:HD2	19:L:421:LYS:NZ	2.14	0.45
21:N:194:ILE:HA	21:N:203:ARG:NH1	2.31	0.45
21:N:422:TYR:O	21:N:425:ASN:HB2	2.16	0.45
21:N:498:ILE:HG13	21:N:524:ILE:HD11	1.99	0.45
21:N:529:GLN:HB2	21:N:530:GLU:OE1	2.16	0.45
21:N:635:GLN:NE2	21:N:672:ASN:OD1	2.41	0.45
22:O:12:SER:O	22:O:16:MET:O	2.33	0.45
22:O:233:LEU:HA	22:O:236:HIS:CD2	2.36	0.45
22:O:342:ASP:O	22:O:347:LEU:N	2.26	0.45
23:P:123:ARG:CG	23:P:129:LYS:HE3	2.45	0.45
23:P:253:ASP:CG	23:P:256:LYS:H	2.24	0.45
23:P:278:ASN:HA	23:P:281:ILE:CG1	2.41	0.45
23:P:412:LEU:O	23:P:416:SER:OG	2.21	0.45
24:Q:19:GLN:HG3	24:Q:22:GLU:H	1.81	0.45
24:Q:74:LEU:HD23	24:Q:104:PHE:CZ	2.51	0.45
25:R:31:PHE:O	25:R:35:GLN:HG2	2.16	0.45
25:R:93:LYS:HG2	25:R:94:PHE:N	2.31	0.45
25:R:188:LYS:HA	25:R:191:LEU:HB3	1.98	0.45
25:R:207:ARG:HA	25:R:210:TYR:HB3	1.98	0.45
25:R:247:GLU:OE2	25:R:283:THR:OG1	2.34	0.45
25:R:270:VAL:HA	25:R:276:LEU:HD11	1.97	0.45
25:R:368:LEU:O	25:R:371:PHE:HB2	2.16	0.45
26:S:48:LEU:O	26:S:52:TYR:N	2.42	0.45
26:S:149:SER:OG	26:S:152:LEU:HD21	2.16	0.45
26:S:214:MET:SD	26:S:233:LEU:HG	2.56	0.45
26:S:279:ILE:O	26:S:283:GLN:HG2	2.16	0.45
26:S:290:ASN:CB	26:S:320:ILE:HG21	2.35	0.45
26:S:317:HIS:CE1	26:S:321:GLN:NE2	2.84	0.45
26:S:425:ARG:HD2	27:T:156:SER:OG	2.16	0.45
27:T:224:ARG:HB3	27:T:226:TRP:CE2	2.51	0.45
28:U:20:ASP:HA	28:U:23:GLU:HB2	1.97	0.45
32:Y:79:ALA:O	32:Y:83:ARG:HB3	2.16	0.45
33:Z:423:GLY:HA2	33:Z:426:TYR:HB2	1.97	0.45
33:Z:475:GLN:CD	33:Z:497:PHE:HZ	2.23	0.45
9:b:10:THR:OG1	9:b:20:GLN:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:147:LEU:O	9:b:159:TRP:N	2.46	0.45
11:d:144:GLU:CD	11:d:146:LYS:NZ	2.74	0.45
11:d:148:TYR:HA	11:d:157:SER:O	2.16	0.45
12:e:243:LEU:O	12:e:246:LYS:N	2.50	0.45
13:f:110:HIS:HB3	14:g:86:ARG:HH22	1.81	0.45
13:f:231:ALA:HA	13:f:234:ILE:CD1	2.46	0.45
14:g:95:GLU:O	14:g:98:SER:HB3	2.16	0.45
14:g:116:LEU:H	14:g:116:LEU:HG	1.49	0.45
14:g:134:VAL:O	14:g:153:PRO:HG3	2.16	0.45
14:g:174:ALA:O	14:g:178:LYS:HG3	2.16	0.45
3:h:54:THR:HB	3:h:62:CYS:SG	2.56	0.45
3:h:116:ILE:O	3:h:132:ILE:N	2.34	0.45
6:k:56:PHE:HB2	6:k:98:TYR:CD1	2.52	0.45
7:l:127:CYS:CB	7:l:131:GLU:OE2	2.64	0.45
7:l:180:THR:HA	7:l:257:GLU:HG3	1.97	0.45
7:l:264:GLY:O	7:l:266:HIS:NE2	2.49	0.45
1:1:40:ALA:HB2	1:1:139:GLY:CA	2.46	0.45
2:2:39:VAL:O	2:2:90:ILE:HG12	2.16	0.45
4:4:105:VAL:HG21	4:4:138:HIS:HB2	1.97	0.45
5:5:85:GLU:HG3	5:5:120:PHE:CZ	2.51	0.45
5:5:89:GLN:HE21	9:B:102:GLY:HA3	1.80	0.45
6:6:56:PHE:HB2	6:6:98:TYR:CD1	2.52	0.45
1:8:145:ASP:CG	1:8:147:VAL:HG22	2.40	0.45
2:9:90:ILE:HG23	2:9:93:MET:HE2	1.97	0.45
9:B:12:PHE:HB3	10:C:24:TYR:CB	2.47	0.45
9:B:97:TYR:O	9:B:101:TYR:N	2.33	0.45
10:C:70:ASN:HB3	10:C:73:ILE:HB	1.98	0.45
10:C:175:LEU:HB3	10:C:199:LYS:HZ1	1.76	0.45
10:C:219:GLY:H	10:C:222:ASP:CG	2.24	0.45
12:E:182:GLU:O	12:E:186:GLU:HG2	2.17	0.45
13:F:104:ALA:HB3	13:F:107:ARG:CB	2.46	0.45
13:F:144:LEU:C	13:F:145:LEU:HD12	2.41	0.45
13:F:146:GLU:O	13:F:153:VAL:HA	2.16	0.45
14:G:95:GLU:O	14:G:98:SER:HB3	2.16	0.45
15:H:176:VAL:HG11	15:H:180:LYS:HG2	1.98	0.45
16:I:395:MET:HE2	16:I:395:MET:HB3	1.78	0.45
17:J:84:VAL:HG12	17:J:96:VAL:O	2.15	0.45
17:J:187:LEU:O	17:J:294:THR:N	2.50	0.45
18:K:78:GLU:CD	18:K:81:ARG:HE	2.25	0.45
18:K:120:VAL:C	18:K:121:ARG:NH1	2.72	0.45
18:K:270:PHE:CG	18:K:271:ILE:N	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:363:ALA:HB2	18:K:401:VAL:HB	1.98	0.45
19:L:87:LEU:HA	19:L:90:LYS:HE2	1.99	0.45
19:L:343:LEU:HD23	19:L:343:LEU:HA	1.75	0.45
21:N:36:TRP:HE1	26:S:215:MET:CE	2.29	0.45
21:N:300:ASN:HA	21:N:303:LEU:HD12	1.97	0.45
21:N:344:THR:HA	21:N:374:ILE:HG22	1.98	0.45
21:N:365:PHE:HB2	21:N:399:PHE:CB	2.41	0.45
21:N:376:LYS:CA	21:N:411:ILE:HG12	2.41	0.45
21:N:406:TYR:HA	21:N:449:GLY:CA	2.46	0.45
21:N:509:GLN:O	21:N:510:HIS:CG	2.69	0.45
21:N:555:ILE:HB	21:N:571:LEU:HD21	1.98	0.45
21:N:742:TRP:HE1	21:N:744:PRO:HB2	1.82	0.45
21:N:762:ARG:HB3	21:N:764:SER:H	1.81	0.45
22:O:26:PHE:CZ	22:O:43:GLU:HG3	2.51	0.45
22:O:44:SER:H	22:O:47:LYS:CD	2.29	0.45
22:O:57:LEU:C	22:O:59:LEU:H	2.23	0.45
22:O:58:ARG:HG2	22:O:61:LEU:HB2	1.98	0.45
22:O:168:THR:HB	22:O:172:TYR:CE2	2.51	0.45
23:P:77:GLU:O	23:P:80:THR:HB	2.16	0.45
23:P:133:GLU:OE1	23:P:136:ARG:HG3	2.16	0.45
23:P:133:GLU:OE2	23:P:137:ALA:HB2	2.16	0.45
23:P:163:LEU:HD23	23:P:180:ILE:HG13	1.98	0.45
23:P:218:LEU:CA	23:P:221:TYR:HB3	2.44	0.45
24:Q:131:VAL:HA	24:Q:134:LYS:NZ	2.32	0.45
24:Q:165:PHE:C	24:Q:167:LYS:H	2.24	0.45
24:Q:214:THR:O	24:Q:218:LEU:HG	2.16	0.45
24:Q:390:LEU:HB2	25:R:345:TYR:HA	1.98	0.45
25:R:68:GLU:HA	25:R:71:LEU:CB	2.47	0.45
25:R:267:LYS:C	25:R:271:ILE:HB	2.42	0.45
25:R:309:LEU:HB2	32:Y:76:GLU:OE1	2.16	0.45
25:R:345:TYR:CD2	25:R:347:THR:O	2.69	0.45
25:R:350:LEU:N	25:R:386:GLY:O	2.49	0.45
25:R:350:LEU:HD21	25:R:365:ASP:CG	2.41	0.45
26:S:159:ASN:ND2	26:S:187:ILE:HG21	2.31	0.45
26:S:347:HIS:HB3	26:S:363:THR:OG1	2.16	0.45
26:S:479:MET:CE	28:U:291:LEU:CD1	2.84	0.45
27:T:148:LEU:HD13	27:T:164:LEU:HD11	1.97	0.45
27:T:169:GLN:C	27:T:172:SER:H	2.24	0.45
28:U:12:PRO:HA	28:U:15:LEU:HD12	1.98	0.45
28:U:210:TYR:CE1	28:U:214:VAL:HG21	2.51	0.45
29:V:163:ALA:CB	29:V:165:ILE:H	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:258:GLU:OE1	29:V:259:LYS:HB2	2.15	0.45
29:V:278:LYS:HZ1	29:V:279:HIS:CD2	2.35	0.45
30:W:114:VAL:HG22	30:W:118:ILE:HD11	1.97	0.45
30:W:122:ARG:HA	30:W:153:LEU:HD22	1.98	0.45
33:Z:209:PRO:HA	33:Z:212:LEU:CB	2.42	0.45
33:Z:518:LEU:HB2	33:Z:524:ALA:HB2	1.98	0.45
8:a:243:GLU:CG	8:a:244:ARG:NH1	2.77	0.45
9:b:146:SER:HB2	9:b:148:TYR:CE2	2.52	0.45
9:b:181:ASP:OD1	9:b:182:GLU:HG3	2.17	0.45
9:b:188:ALA:CA	9:b:191:ILE:HB	2.45	0.45
10:c:83:ASP:HB2	10:c:133:VAL:HG21	1.99	0.45
10:c:100:LYS:HA	5:j:68:ARG:HH21	1.78	0.45
10:c:104:GLU:OE2	6:k:78:GLN:HG3	2.15	0.45
12:e:91:HIS:O	12:e:94:THR:HB	2.16	0.45
13:f:43:HIS:CB	13:f:215:ILE:HD11	2.39	0.45
3:h:33:LEU:HD11	3:h:119:ALA:HB3	1.96	0.45
3:h:36:ASP:O	3:h:52:LYS:HD2	2.16	0.45
3:h:172:ASP:HA	3:h:175:LYS:CB	2.46	0.45
4:i:91:ASN:HB2	4:i:111:MET:HE1	1.99	0.45
5:j:63:LEU:O	5:j:66:MET:HB3	2.16	0.45
5:j:66:MET:O	5:j:70:LYS:HG3	2.16	0.45
6:k:9:VAL:HG22	6:k:12:SER:O	2.16	0.45
7:l:178:GLY:HA2	7:l:255:VAL:HG11	1.99	0.45
1:1:22:ASN:CG	1:1:24:TYR:H	2.21	0.45
1:1:30:THR:HG21	1:1:162:ALA:N	2.31	0.45
1:1:133:LEU:N	1:1:226:VAL:HG11	2.31	0.45
3:3:159:LYS:HG3	3:h:156:TYR:CE1	2.52	0.45
4:4:67:SER:OG	4:4:70:ILE:N	2.50	0.45
4:4:90:SER:OG	9:B:94:HIS:HB3	2.16	0.45
6:6:115:GLU:HB3	6:6:117:TYR:CE1	2.51	0.45
7:7:119:THR:OG1	7:7:174:THR:OG1	2.31	0.45
7:7:179:TYR:CD2	7:7:185:PRO:HG3	2.52	0.45
1:8:40:ALA:HB2	1:8:139:GLY:CA	2.46	0.45
1:8:47:ARG:HG2	1:8:49:ILE:HG23	1.98	0.45
1:8:54:ILE:C	2:9:189:ARG:HH22	2.20	0.45
1:8:179:TYR:CD1	1:8:188:LYS:HA	2.50	0.45
2:9:162:TYR:HB2	2:9:175:LEU:HD13	1.97	0.45
8:A:41:ASN:H	8:A:56:GLN:CD	2.19	0.45
8:A:41:ASN:CG	8:A:174:LYS:H	2.20	0.45
8:A:87:ILE:N	8:A:88:PRO:HD2	2.30	0.45
8:A:176:GLN:O	8:A:179:THR:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:209:HIS:HA	8:A:212:ASP:CB	2.45	0.45
9:B:146:SER:HB2	9:B:148:TYR:CE2	2.52	0.45
10:C:140:TYR:CG	10:C:225:VAL:HG21	2.52	0.45
10:C:150:THR:O	10:C:157:TYR:HB2	2.16	0.45
10:C:207:THR:HA	10:C:239:LEU:HD21	1.98	0.45
12:E:16:SER:OG	12:E:18:GLU:HB2	2.15	0.45
12:E:200:VAL:O	12:E:204:LEU:N	2.35	0.45
13:F:171:TYR:CD2	13:F:196:ALA:HA	2.52	0.45
15:H:432:ARG:NH1	16:I:346:ARG:NH2	2.65	0.45
17:J:43:ARG:HG2	26:S:480:ARG:CA	2.46	0.45
17:J:133:LEU:HD23	17:J:134:VAL:O	2.16	0.45
17:J:376:HIS:NE2	25:R:204:TRP:HD1	2.14	0.45
18:K:207:ARG:HH22	18:K:306:PHE:HB2	1.82	0.45
18:K:262:ARG:NH1	18:K:306:PHE:CG	2.85	0.45
18:K:342:SER:CB	18:K:344:ARG:NH1	2.79	0.45
18:K:342:SER:CA	18:K:344:ARG:NH1	2.79	0.45
19:L:93:ASN:HA	19:L:96:LYS:HE2	1.99	0.45
19:L:304:THR:HA	19:L:307:GLU:OE1	2.15	0.45
19:L:374:PHE:CE2	19:L:415:LEU:HD22	2.51	0.45
19:L:375:ASP:CG	19:L:378:ALA:HB3	2.40	0.45
20:M:369:THR:O	20:M:409:SER:HA	2.15	0.45
21:N:64:ILE:O	21:N:68:VAL:HG23	2.16	0.45
21:N:107:GLU:O	21:N:110:VAL:N	2.43	0.45
21:N:685:VAL:HG13	21:N:691:GLN:CB	2.46	0.45
21:N:740:TRP:HA	21:N:743:PHE:CE1	2.51	0.45
22:O:230:PHE:CZ	22:O:291:ILE:HA	2.52	0.45
22:O:245:ASP:O	22:O:248:TYR:CD2	2.69	0.45
22:O:311:GLU:C	22:O:315:LYS:NZ	2.72	0.45
22:O:327:LEU:N	22:O:330:ARG:NH1	2.65	0.45
22:O:350:ILE:HG22	22:O:351:SER:N	2.31	0.45
23:P:147:LYS:O	23:P:152:LYS:N	2.49	0.45
23:P:164:GLN:CD	23:P:202:LYS:HZ3	2.18	0.45
23:P:315:GLN:OE1	23:P:323:ASN:ND2	2.50	0.45
23:P:422:LEU:HA	23:P:426:ILE:HG13	1.98	0.45
24:Q:41:ALA:CB	24:Q:51:ARG:HG2	2.46	0.45
24:Q:116:PHE:CE2	24:Q:120:LYS:HE3	2.51	0.45
24:Q:136:SER:O	24:Q:139:ILE:HB	2.17	0.45
24:Q:146:TYR:HA	24:Q:151:TYR:CE1	2.50	0.45
24:Q:253:ASN:OD1	24:Q:257:LYS:HB3	2.17	0.45
24:Q:264:TYR:HE1	24:Q:328:ASP:HB3	1.80	0.45
24:Q:386:PHE:CG	24:Q:387:TYR:N	2.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:36:SER:OG	25:R:43:ARG:HB2	2.16	0.45
25:R:101:GLU:O	25:R:105:LYS:N	2.35	0.45
25:R:384:VAL:HG21	26:S:403:SER:H	1.81	0.45
26:S:260:PRO:HA	26:S:261:HIS:HA	1.51	0.45
26:S:404:LEU:HB2	26:S:441:GLY:C	2.42	0.45
26:S:407:ILE:HB	26:S:443:ILE:HD12	1.99	0.45
26:S:437:ASN:HB2	26:S:440:ASP:CB	2.47	0.45
27:T:68:ALA:O	27:T:72:THR:HG23	2.16	0.45
27:T:200:LEU:O	27:T:233:VAL:N	2.48	0.45
27:T:266:TYR:HD1	27:T:269:SER:HB2	1.82	0.45
28:U:79:MET:SD	29:V:91:MET:HG3	2.55	0.45
28:U:93:TYR:CA	28:U:121:LEU:HB3	2.44	0.45
28:U:140:ILE:CB	28:U:153:THR:O	2.52	0.45
30:W:2:VAL:H	30:W:43:SER:HB3	1.81	0.45
30:W:10:ILE:HG12	30:W:113:PHE:CD2	2.51	0.45
31:X:15:CYS:HB2	31:X:100:TRP:N	2.32	0.45
31:X:50:TRP:CH2	31:X:52:PRO:HD3	2.51	0.45
33:Z:169:VAL:HG13	33:Z:189:ALA:HB3	1.98	0.45
33:Z:243:GLN:O	33:Z:247:GLN:HB2	2.16	0.45
33:Z:386:VAL:O	33:Z:390:LEU:HB3	2.17	0.45
33:Z:784:SER:HA	33:Z:788:PRO:HB3	1.98	0.45
33:Z:888:LEU:HD13	33:Z:901:PHE:HA	1.97	0.45
33:Z:890:SER:OG	33:Z:898:HIS:HA	2.16	0.45
8:a:72:ILE:HG12	8:a:82:VAL:HB	1.98	0.45
10:c:38:ILE:O	10:c:45:VAL:N	2.35	0.45
12:e:73:HIS:NE2	12:e:106:ASP:HB3	2.31	0.45
12:e:167:TYR:CE2	13:f:57:SER:HB3	2.52	0.45
13:f:104:ALA:HB3	13:f:107:ARG:CB	2.46	0.45
13:f:179:PHE:HA	13:f:182:ILE:HD12	1.97	0.45
13:f:217:GLY:CA	13:f:220:THR:HB	2.46	0.45
14:g:171:SER:O	14:g:175:GLU:HG2	2.16	0.45
3:h:11:LEU:HA	3:h:67:SER:HB2	1.97	0.45
3:h:162:ARG:HH21	3:h:165:MET:HG2	1.80	0.45
5:j:10:GLY:C	5:j:11:ILE:HG23	2.42	0.45
5:j:85:GLU:HG3	5:j:120:PHE:CZ	2.51	0.45
6:k:51:GLY:HA3	7:l:166:LYS:HZ2	1.81	0.45
6:k:143:LEU:O	6:k:147:HIS:N	2.32	0.45
7:l:133:TRP:CZ3	7:l:161:LEU:HD22	2.52	0.45
1:1:76:PHE:HD2	1:1:79:ASP:H	1.64	0.45
1:1:116:LEU:HD23	1:1:124:TYR:HD2	1.81	0.45
1:1:145:ASP:HB3	1:1:149:SER:H	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:177:ASN:O	5:5:169:GLN:NE2	2.41	0.45
1:1:220:GLY:HA2	1:1:238:LEU:H	1.82	0.45
2:2:96:ILE:O	2:2:100:LEU:HG	2.17	0.45
2:2:98:ARG:CZ	14:g:101:LYS:HG3	2.46	0.45
2:2:110:ASP:CG	14:g:93:ARG:HH12	2.25	0.45
2:2:122:PRO:HB3	2:2:151:GLY:HA3	1.99	0.45
3:3:94:THR:HB	3:3:128:GLU:OE1	2.17	0.45
3:3:172:ASP:HA	3:3:175:LYS:CB	2.46	0.45
3:3:180:GLN:HE22	3:h:158:ASP:CB	2.29	0.45
4:4:46:ASP:OD1	4:4:46:ASP:N	2.48	0.45
4:4:71:TRP:HB2	4:4:207:MET:SD	2.57	0.45
4:4:153:TYR:CD2	4:4:167:LEU:HB3	2.50	0.45
5:5:183:TRP:HA	5:5:204:GLN:OE1	2.17	0.45
6:6:139:TYR:OH	6:6:171:ARG:O	2.26	0.45
7:7:243:ASP:CG	7:7:246:SER:H	2.24	0.45
1:8:31:ILE:HG23	1:8:74:ASN:ND2	2.31	0.45
1:8:240:ARG:HB2	4:i:193:TRP:HZ3	1.82	0.45
2:9:45:ILE:O	2:9:55:ILE:HG13	2.16	0.45
2:9:136:ARG:NH1	2:9:143:LEU:HD21	2.32	0.45
2:9:143:LEU:HD23	2:9:143:LEU:HA	1.59	0.45
2:9:180:GLY:HA2	2:9:217:LEU:CD2	2.46	0.45
8:A:81:MET:HB3	8:A:81:MET:HE2	1.83	0.45
10:C:75:VAL:HG11	10:C:137:TYR:HD1	1.80	0.45
11:D:74:SER:OG	11:D:134:LEU:HB2	2.16	0.45
11:D:144:GLU:CD	11:D:146:LYS:NZ	2.74	0.45
12:E:52:LYS:HB2	12:E:216:ASN:C	2.42	0.45
13:F:159:THR:OG1	13:F:160:ALA:N	2.50	0.45
13:F:186:PRO:O	13:F:189:LEU:HB2	2.16	0.45
13:F:231:ALA:HA	13:F:234:ILE:CD1	2.47	0.45
14:G:109:ILE:HG13	14:G:140:GLY:O	2.17	0.45
14:G:140:GLY:N	14:G:147:HIS:O	2.44	0.45
14:G:235:LEU:HA	14:G:238:GLU:OE1	2.17	0.45
15:H:105:ILE:HD13	15:H:169:GLU:CD	2.42	0.45
15:H:177:ASP:O	15:H:190:ARG:HG2	2.16	0.45
15:H:426:ALA:CB	15:H:429:PHE:HB2	2.46	0.45
15:H:456:LYS:NZ	16:I:331:ILE:HD12	2.31	0.45
16:I:117:HIS:HB2	16:I:129:TYR:CZ	2.52	0.45
16:I:395:MET:CG	16:I:420:LYS:HB2	2.46	0.45
17:J:70:SER:O	18:K:118:TYR:HB3	2.17	0.45
17:J:345:LYS:HD3	17:J:379:GLN:HE22	1.82	0.45
18:K:237:VAL:HG12	18:K:238:ASN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:244:HIS:O	18:K:291:GLU:HG2	2.16	0.45
18:K:252:ARG:NH1	18:K:253:MET:SD	2.89	0.45
20:M:84:GLU:CD	20:M:116:ALA:HB3	2.42	0.45
21:N:29:ASN:HA	21:N:32:VAL:HG23	1.98	0.45
21:N:75:TYR:HB2	21:N:104:LYS:HE2	1.98	0.45
21:N:145:LEU:HA	21:N:150:LEU:CD2	2.46	0.45
21:N:311:ILE:HD13	21:N:347:SER:HB3	1.99	0.45
21:N:464:GLU:O	21:N:465:ALA:C	2.58	0.45
21:N:486:GLY:HA2	21:N:524:ILE:HG23	1.98	0.45
21:N:515:ARG:HD3	21:N:738:GLN:HE22	1.81	0.45
22:O:4:ASN:OD1	22:O:4:ASN:N	2.47	0.45
22:O:47:LYS:O	22:O:81:TYR:CZ	2.70	0.45
22:O:308:LEU:HB2	22:O:350:ILE:CD1	2.46	0.45
23:P:128:ASN:OD1	23:P:136:ARG:CZ	2.64	0.45
23:P:343:LYS:O	23:P:344:ARG:C	2.60	0.45
24:Q:64:LEU:HA	24:Q:67:THR:CB	2.46	0.45
24:Q:212:THR:HB	24:Q:249:LEU:HD21	1.99	0.45
24:Q:340:ASP:O	24:Q:343:LEU:HB3	2.17	0.45
25:R:215:GLY:HA2	25:R:227:ALA:CB	2.47	0.45
26:S:251:SER:O	26:S:255:SER:N	2.43	0.45
26:S:287:SER:O	26:S:291:GLU:HG3	2.15	0.45
26:S:379:LEU:O	26:S:381:VAL:HG23	2.16	0.45
26:S:394:ILE:C	26:S:396:SER:N	2.73	0.45
26:S:458:GLN:HA	26:S:461:PHE:CD2	2.50	0.45
27:T:148:LEU:C	27:T:152:LEU:HG	2.41	0.45
27:T:174:PHE:O	27:T:174:PHE:CG	2.69	0.45
27:T:200:LEU:HD23	27:T:205:ILE:HB	1.98	0.45
27:T:249:MET:HG3	27:T:256:LYS:NZ	2.31	0.45
27:T:263:ALA:O	27:T:266:TYR:N	2.49	0.45
28:U:20:ASP:OD2	29:V:100:ARG:NH1	2.50	0.45
28:U:36:VAL:N	28:U:52:PHE:O	2.50	0.45
28:U:119:LEU:HG	28:U:120:LEU:O	2.17	0.45
29:V:108:TYR:CD1	29:V:109:HIS:N	2.66	0.45
29:V:162:GLY:HA3	29:V:165:ILE:HD12	1.99	0.45
29:V:281:SER:O	29:V:285:ASP:N	2.50	0.45
33:Z:138:ARG:CZ	33:Z:206:ASP:OD2	2.63	0.45
33:Z:265:LEU:HB3	33:Z:284:LEU:HD21	1.97	0.45
33:Z:428:TRP:HH2	33:Z:910:PRO:HD3	1.81	0.45
33:Z:452:LEU:HD13	33:Z:489:ALA:HB2	1.98	0.45
33:Z:455:ILE:CG2	33:Z:474:LEU:HB2	2.47	0.45
33:Z:501:LYS:HB2	33:Z:533:VAL:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:764:LEU:HD23	33:Z:767:TYR:CE2	2.52	0.45
8:a:29:GLU:O	8:a:32:PHE:HB2	2.16	0.45
8:a:146:VAL:HB	8:a:230:LYS:HA	1.97	0.45
8:a:185:HIS:O	8:a:189:SER:N	2.29	0.45
9:b:108:LYS:HZ1	5:j:78:GLU:HA	1.81	0.45
10:c:228:LYS:HE3	10:c:230:PHE:CD1	2.51	0.45
11:d:93:ALA:O	11:d:97:ARG:HG3	2.16	0.45
12:e:122:ARG:CA	12:e:132:ARG:HB3	2.41	0.45
13:f:143:HIS:ND1	13:f:155:GLU:OE2	2.42	0.45
14:g:109:ILE:HG13	14:g:140:GLY:O	2.17	0.45
14:g:140:GLY:N	14:g:147:HIS:O	2.44	0.45
4:i:46:ASP:OD1	4:i:46:ASP:N	2.48	0.45
4:i:67:SER:OG	4:i:70:ILE:N	2.50	0.45
4:i:116:LEU:O	4:i:119:TYR:N	2.50	0.45
5:j:135:ASP:CG	5:j:136:PHE:H	2.19	0.45
6:k:4:ILE:HG13	6:k:47:ALA:HB2	1.98	0.45
7:l:232:GLY:HA2	7:l:235:SER:HB2	1.98	0.45
7:l:243:ASP:OD1	7:l:245:TYR:N	2.38	0.45
1:1:23:PRO:HG2	1:1:24:TYR:CD2	2.52	0.45
2:2:180:GLY:HA2	2:2:217:LEU:CD2	2.46	0.45
2:2:211:VAL:O	2:2:214:MET:HB2	2.17	0.45
4:4:93:GLU:OE1	9:B:94:HIS:NE2	2.34	0.45
4:4:177:LYS:HZ1	4:4:211:LYS:HZ3	1.64	0.45
4:4:241:VAL:HA	5:5:200:LEU:HD23	1.99	0.45
5:5:9:GLY:HA3	5:5:180:LEU:HB3	1.98	0.45
5:5:145:GLN:OE1	5:5:145:GLN:N	2.38	0.45
7:7:232:GLY:HA2	7:7:235:SER:HB2	1.98	0.45
2:9:58:ASP:HA	2:9:228:PHE:HB2	1.99	0.45
2:9:166:LEU:HD23	2:9:166:LEU:HA	1.82	0.45
2:9:242:LYS:CB	2:9:245:LEU:HD11	2.43	0.45
9:B:21:ILE:HD11	9:B:122:THR:CG2	2.47	0.45
9:B:27:ALA:O	9:B:30:GLN:HB2	2.16	0.45
10:C:180:TYR:HA	10:C:184:MET:SD	2.57	0.45
11:D:42:VAL:HG23	11:D:138:PHE:CE1	2.52	0.45
11:D:42:VAL:N	11:D:138:PHE:HZ	2.14	0.45
13:F:14:SER:O	14:G:26:TYR:HB3	2.17	0.45
13:F:43:HIS:CB	13:F:215:ILE:HD11	2.39	0.45
13:F:217:GLY:CA	13:F:220:THR:HB	2.47	0.45
15:H:234:ARG:O	15:H:238:LEU:HG	2.16	0.45
15:H:238:LEU:O	20:M:369:THR:N	2.35	0.45
15:H:451:ILE:O	15:H:454:TYR:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:113:VAL:HA	17:J:126:LEU:H	1.81	0.45
17:J:186:ILE:HD12	17:J:297:LEU:HD21	1.97	0.45
18:K:347:ARG:HD2	24:Q:238:TYR:CE1	2.51	0.45
18:K:380:GLY:HA2	18:K:383:ILE:HB	1.97	0.45
19:L:123:SER:CB	20:M:125:GLN:HA	2.46	0.45
19:L:223:PRO:HD2	19:L:349:ILE:O	2.16	0.45
21:N:16:ASN:HA	21:N:21:LYS:HE3	1.97	0.45
21:N:45:ASP:O	21:N:49:LEU:HG	2.17	0.45
21:N:242:PHE:O	21:N:246:LYS:N	2.24	0.45
21:N:297:ASP:CG	21:N:921:ARG:HB2	2.42	0.45
21:N:309:ILE:CG2	21:N:311:ILE:HG23	2.46	0.45
21:N:352:ASN:HB3	21:N:355:TRP:H	1.82	0.45
21:N:406:TYR:CE1	21:N:452:LEU:HD22	2.51	0.45
21:N:760:GLY:O	21:N:905:LEU:HB3	2.17	0.45
21:N:776:TYR:HA	21:N:866:TYR:HB2	1.99	0.45
22:O:15:ARG:NH2	30:W:144:PHE:CD2	2.85	0.45
22:O:76:LEU:HD22	22:O:127:LEU:HD23	1.98	0.45
22:O:150:LEU:HD12	22:O:153:LEU:HD23	1.98	0.45
22:O:343:GLN:HG2	23:P:364:ARG:CG	2.43	0.45
22:O:348:VAL:HG12	22:O:349:THR:O	2.17	0.45
23:P:112:LEU:O	23:P:115:ARG:HB3	2.16	0.45
23:P:113:ASN:OD1	23:P:116:ILE:HD12	2.16	0.45
23:P:291:LYS:O	23:P:293:LEU:HD23	2.16	0.45
23:P:311:TRP:HZ2	23:P:338:TRP:CD1	2.35	0.45
23:P:422:LEU:CD2	23:P:426:ILE:HG13	2.47	0.45
24:Q:51:ARG:HA	24:Q:54:GLN:HB2	1.98	0.45
25:R:58:GLU:CD	25:R:144:ILE:HG12	2.41	0.45
25:R:60:ALA:O	25:R:61:PRO:C	2.59	0.45
25:R:66:LEU:O	25:R:69:GLU:HB3	2.17	0.45
25:R:78:ASP:HA	25:R:93:LYS:CA	2.29	0.45
25:R:190:LYS:O	25:R:194:VAL:HG12	2.16	0.45
25:R:215:GLY:HA2	25:R:227:ALA:HB3	1.98	0.45
25:R:413:LYS:O	25:R:416:LYS:HB3	2.17	0.45
26:S:3:SER:O	26:S:7:MET:HG2	2.16	0.45
26:S:252:ASP:O	26:S:255:SER:OG	2.15	0.45
27:T:94:HIS:CE1	27:T:97:SER:HB3	2.51	0.45
27:T:222:LEU:HD23	27:T:222:LEU:HA	1.78	0.45
28:U:74:GLU:O	28:U:78:GLU:HG3	2.16	0.45
28:U:121:LEU:HD12	28:U:135:ASP:O	2.16	0.45
28:U:138:VAL:O	28:U:154:PHE:HA	2.17	0.45
30:W:12:ASN:OD1	30:W:26:PHE:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:142:ILE:HG23	30:W:174:VAL:CG2	2.46	0.45
33:Z:435:GLN:NE2	33:Z:438:LYS:HZ2	2.15	0.45
33:Z:790:MET:HA	33:Z:793:PHE:CD2	2.52	0.45
33:Z:793:PHE:CZ	33:Z:827:LEU:HD12	2.52	0.45
9:b:1:MET:CG	9:b:2:THR:H	2.23	0.45
9:b:8:SER:N	10:c:128:LEU:HD23	2.32	0.45
9:b:97:TYR:CD2	9:b:101:TYR:HD2	2.34	0.45
9:b:99:ARG:HE	4:i:90:SER:HG	1.58	0.45
10:c:16:GLU:OE1	10:c:16:GLU:N	2.35	0.45
10:c:140:TYR:CG	10:c:225:VAL:HG21	2.52	0.45
13:f:11:VAL:HG23	14:g:130:ARG:N	2.27	0.45
13:f:218:LYS:HE3	13:f:218:LYS:HB2	1.74	0.45
14:g:107:ILE:HG23	14:g:112:PHE:HB2	1.98	0.45
5:j:120:PHE:HE1	5:j:132:GLU:OE2	1.99	0.45
6:k:36:ARG:O	6:k:43:LEU:HD12	2.16	0.45
7:l:133:TRP:O	7:l:136:SER:HB2	2.15	0.45
1:1:47:ARG:NH1	1:1:215:ILE:O	2.49	0.45
1:1:167:PRO:HG2	5:5:145:GLN:HA	1.97	0.45
2:2:45:ILE:O	2:2:55:ILE:HG13	2.16	0.45
3:3:131:THR:CG2	3:3:139:HIS:HB2	2.46	0.45
7:7:271:LEU:O	7:7:274:LYS:HB3	2.16	0.45
8:A:69:VAL:HG22	14:G:158:TRP:CE3	2.52	0.45
8:A:128:TYR:CD1	8:A:128:TYR:N	2.84	0.45
9:B:12:PHE:HB3	10:C:24:TYR:HB2	1.97	0.45
10:C:93:ILE:HG22	10:C:97:ASN:ND2	2.31	0.45
10:C:94:HIS:O	10:C:97:ASN:HB2	2.16	0.45
10:C:96:GLN:HA	10:C:99:LEU:HB3	1.97	0.45
10:C:233:GLN:O	10:C:237:ASP:N	2.43	0.45
10:C:237:ASP:O	10:C:241:LYS:HG2	2.16	0.45
11:D:169:LYS:HZ2	11:D:172:ARG:CD	2.24	0.45
11:D:169:LYS:HA	11:D:172:ARG:HB3	1.98	0.45
13:F:4:ASN:HA	13:F:7:ASP:OD1	2.16	0.45
13:F:107:ARG:O	13:F:111:LEU:HG	2.17	0.45
13:F:176:LEU:HD23	14:G:57:LYS:HE3	1.97	0.45
14:G:112:PHE:CZ	14:G:116:LEU:HD11	2.51	0.45
16:I:245:LEU:O	16:I:280:PHE:HB3	2.17	0.45
17:J:212:ARG:HB3	17:J:248:ASP:CG	2.42	0.45
18:K:210:LEU:HB3	18:K:337:LYS:HG2	1.97	0.45
19:L:183:ILE:HG21	19:L:230:LEU:HB2	1.98	0.45
19:L:386:PHE:CZ	19:L:423:ALA:HB2	2.52	0.45
21:N:33:ASP:O	26:S:215:MET:HG2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:36:TRP:HZ3	21:N:72:LEU:HD23	1.82	0.45
21:N:53:ASP:OD1	21:N:54:THR:N	2.49	0.45
21:N:246:LYS:HE2	21:N:282:TYR:HA	1.98	0.45
21:N:649:VAL:CG1	21:N:651:PHE:HB3	2.46	0.45
21:N:890:PHE:O	21:N:905:LEU:HD11	2.17	0.45
22:O:99:LEU:O	22:O:103:LYS:HG3	2.16	0.45
22:O:165:LEU:O	22:O:168:THR:OG1	2.29	0.45
22:O:185:PHE:O	22:O:189:TYR:N	2.50	0.45
22:O:369:ARG:C	22:O:372:GLU:H	2.24	0.45
22:O:387:ARG:HB3	27:T:266:TYR:OH	2.16	0.45
23:P:104:LEU:O	23:P:107:SER:N	2.50	0.45
23:P:123:ARG:HD3	23:P:123:ARG:HA	1.83	0.45
23:P:160:LEU:HG	23:P:183:GLN:CG	2.46	0.45
23:P:221:TYR:CD1	23:P:244:ILE:HB	2.51	0.45
23:P:395:ARG:HD2	24:Q:361:HIS:ND1	2.32	0.45
23:P:402:PHE:O	23:P:402:PHE:CG	2.70	0.45
24:Q:47:ASP:CG	24:Q:51:ARG:HB2	2.42	0.45
24:Q:164:GLU:OE2	24:Q:169:ASP:HB2	2.16	0.45
24:Q:171:LYS:N	24:Q:172:PRO:HD2	2.31	0.45
24:Q:239:PHE:CE2	24:Q:264:TYR:HB3	2.51	0.45
24:Q:390:LEU:N	25:R:344:SER:O	2.46	0.45
25:R:23:ASN:HB2	25:R:242:GLU:HB3	1.99	0.45
25:R:43:ARG:CZ	25:R:43:ARG:HB2	2.46	0.45
25:R:335:ARG:O	25:R:336:LYS:C	2.60	0.45
25:R:353:MET:HG3	25:R:357:PHE:CD2	2.51	0.45
25:R:382:ASP:N	25:R:387:ILE:O	2.48	0.45
26:S:417:GLN:N	26:S:419:VAL:HG23	2.32	0.45
27:T:111:LEU:HA	27:T:114:LEU:HB3	1.98	0.45
27:T:126:LEU:HD11	27:T:132:HIS:HB3	1.98	0.45
27:T:227:PRO:HG2	27:T:234:TYR:C	2.41	0.45
28:U:140:ILE:C	28:U:153:THR:CB	2.82	0.45
28:U:141:GLU:C	28:U:151:GLU:O	2.60	0.45
28:U:195:LYS:O	28:U:196:SER:C	2.59	0.45
28:U:275:VAL:HA	28:U:278:ILE:CD1	2.45	0.45
29:V:120:SER:O	29:V:123:VAL:HB	2.17	0.45
29:V:140:VAL:HB	29:V:154:ASP:HB3	1.99	0.45
29:V:243:SER:CA	29:V:250:GLN:HE22	2.30	0.45
30:W:52:ILE:HG22	30:W:61:VAL:HG22	1.98	0.45
32:Y:84:TYR:HA	32:Y:87:GLU:CD	2.40	0.45
33:Z:169:VAL:HG13	33:Z:189:ALA:CB	2.46	0.45
33:Z:181:GLY:HA2	33:Z:263:ALA:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:332:ASN:OD1	33:Z:346:LEU:HD13	2.16	0.45
33:Z:356:ASP:O	33:Z:359:LYS:HB3	2.16	0.45
33:Z:433:LEU:HB3	33:Z:437:ASP:CG	2.42	0.45
33:Z:886:VAL:HG22	33:Z:894:MET:HE1	1.98	0.45
8:a:163:TYR:HE1	9:b:83:ARG:HD3	1.82	0.45
8:a:176:GLN:O	8:a:179:THR:HB	2.17	0.45
9:b:72:GLY:HA3	9:b:235:PHE:CE1	2.52	0.45
9:b:119:GLN:NE2	10:c:86:ILE:HG13	2.31	0.45
9:b:188:ALA:HA	9:b:191:ILE:HD12	1.98	0.45
10:c:194:LEU:HD23	10:c:197:LEU:HD12	1.98	0.45
10:c:219:GLY:H	10:c:222:ASP:CG	2.24	0.45
11:d:6:ARG:C	11:d:125:GLY:H	2.25	0.45
11:d:74:SER:OG	11:d:134:LEU:HB2	2.16	0.45
12:e:38:ILE:HA	12:e:171:ALA:HA	1.99	0.45
13:f:26:LEU:HA	13:f:29:ILE:CD1	2.46	0.45
13:f:104:ALA:O	13:f:108:ALA:N	2.31	0.45
13:f:159:THR:OG1	13:f:160:ALA:N	2.50	0.45
14:g:47:VAL:HG13	14:g:218:TRP:HB3	1.99	0.45
3:h:68:ALA:HA	3:h:71:THR:OG1	2.16	0.45
7:l:272:PHE:HZ	7:l:285:VAL:HG21	1.82	0.45
1:1:31:ILE:HG23	1:1:74:ASN:ND2	2.31	0.45
1:1:47:ARG:HG2	1:1:49:ILE:HG23	1.98	0.45
1:1:57:ARG:NH1	1:1:219:ASP:OD1	2.49	0.45
1:1:142:TYR:CD1	1:1:152:ARG:HA	2.51	0.45
1:1:179:TYR:HA	1:1:189:LYS:H	1.82	0.45
2:2:105:THR:O	2:2:108:ALA:HB3	2.17	0.45
2:2:176:ALA:HB3	2:2:181:ALA:HA	1.99	0.45
3:3:31:VAL:HG13	3:3:197:LEU:HB2	1.99	0.45
4:4:91:ASN:O	4:4:95:HIS:N	2.30	0.45
6:6:23:ARG:HA	6:6:23:ARG:HD3	1.73	0.45
7:7:264:GLY:O	7:7:266:HIS:NE2	2.49	0.45
1:8:57:ARG:NH2	4:i:193:TRP:HB3	2.31	0.45
1:8:142:TYR:CD1	1:8:152:ARG:HA	2.51	0.45
1:8:142:TYR:HD1	1:8:152:ARG:HA	1.82	0.45
2:9:177:THR:C	2:9:181:ALA:H	2.25	0.45
10:C:15:PRO:HD2	10:C:20:TYR:OH	2.16	0.45
12:E:146:GLY:N	12:E:154:GLN:O	2.48	0.45
12:E:148:ASP:O	12:E:152:GLY:N	2.50	0.45
14:G:21:ASN:OD1	14:G:23:GLN:HB2	2.17	0.45
14:G:126:TYR:CA	14:G:129:VAL:HG22	2.47	0.45
15:H:58:ASP:HB2	16:I:99:ILE:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:107:LYS:HB2	15:H:143:ALA:HB2	1.97	0.45
15:H:154:LYS:O	15:H:155:PHE:CD1	2.70	0.45
16:I:141:LEU:CD1	16:I:159:VAL:HA	2.45	0.45
16:I:259:ASP:C	16:I:263:LEU:HG	2.42	0.45
16:I:287:ILE:HA	16:I:302:ILE:HA	1.98	0.45
17:J:87:LYS:HE3	17:J:91:GLU:O	2.16	0.45
17:J:165:GLU:OE2	17:J:202:VAL:HA	2.17	0.45
17:J:342:ASN:O	17:J:346:VAL:HG23	2.17	0.45
18:K:49:PHE:O	18:K:50:LYS:C	2.57	0.45
18:K:49:PHE:HB2	21:N:152:LEU:CA	2.47	0.45
18:K:219:LYS:HA	18:K:222:LEU:HG	1.98	0.45
19:L:383:SER:HA	19:L:386:PHE:CZ	2.52	0.45
20:M:24:ASN:O	20:M:28:GLN:HG3	2.16	0.45
20:M:73:ARG:HA	20:M:77:TYR:OH	2.16	0.45
20:M:74:GLN:HE22	20:M:150:LYS:CE	2.30	0.45
20:M:201:MET:HA	20:M:319:ASP:CG	2.41	0.45
20:M:245:LYS:HA	20:M:279:PHE:O	2.17	0.45
21:N:214:LEU:HD23	21:N:214:LEU:HA	1.72	0.45
21:N:255:ALA:HB1	21:N:259:PHE:CE2	2.52	0.45
21:N:486:GLY:HA2	21:N:524:ILE:CG2	2.46	0.45
21:N:533:ASP:O	21:N:537:THR:N	2.23	0.45
21:N:589:ILE:HA	21:N:624:ALA:HB2	1.97	0.45
21:N:682:PHE:HA	21:N:699:ALA:HB1	1.98	0.45
21:N:719:ASN:N	21:N:724:THR:O	2.43	0.45
21:N:742:TRP:HD1	21:N:745:LEU:CG	2.29	0.45
21:N:924:LYS:HG3	21:N:925:ASP:HB2	1.97	0.45
22:O:68:LYS:O	22:O:68:LYS:HG2	2.17	0.45
22:O:87:LYS:HA	22:O:95:SER:OG	2.16	0.45
23:P:133:GLU:HA	23:P:136:ARG:HE	1.81	0.45
23:P:297:GLU:O	23:P:301:LYS:HG3	2.16	0.45
23:P:364:ARG:HA	23:P:367:GLU:OE1	2.16	0.45
23:P:396:PRO:HG2	24:Q:357:VAL:HA	1.99	0.45
23:P:415:TRP:HA	23:P:418:ASN:CB	2.47	0.45
24:Q:19:GLN:HE21	24:Q:22:GLU:N	2.12	0.45
24:Q:42:ALA:HB2	24:Q:47:ASP:CG	2.42	0.45
24:Q:293:SER:H	24:Q:296:ILE:HB	1.81	0.45
24:Q:369:ASP:O	24:Q:373:VAL:HG23	2.17	0.45
25:R:127:GLU:O	25:R:160:LYS:HB3	2.16	0.45
25:R:336:LYS:HZ3	25:R:340:GLN:NE2	2.14	0.45
25:R:407:GLY:HA3	28:U:281:LEU:CD1	2.47	0.45
26:S:31:VAL:O	26:S:35:LEU:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:51:ARG:C	26:S:53:ILE:H	2.24	0.45
26:S:257:LEU:HD13	26:S:260:PRO:CD	2.47	0.45
26:S:390:THR:HG22	26:S:394:ILE:CD1	2.47	0.45
26:S:405:ARG:CA	26:S:408:CYS:HB2	2.27	0.45
27:T:10:SER:OG	27:T:11:LEU:N	2.46	0.45
28:U:24:ARG:HD3	29:V:100:ARG:N	2.31	0.45
28:U:120:LEU:HD22	28:U:137:TYR:CD2	2.52	0.45
28:U:120:LEU:N	28:U:137:TYR:O	2.46	0.45
28:U:161:ILE:HG13	29:V:216:LEU:HD23	1.98	0.45
28:U:175:LEU:O	28:U:176:ARG:HB3	2.15	0.45
29:V:36:LYS:HZ3	29:V:69:PHE:HB3	1.82	0.45
33:Z:183:LYS:NZ	33:Z:292:ASP:HB2	2.31	0.45
33:Z:227:ILE:HG22	33:Z:229:SER:HB2	1.98	0.45
33:Z:359:LYS:HA	33:Z:394:TYR:HD1	1.80	0.45
8:a:37:GLN:NE2	14:g:20:ARG:HG2	2.26	0.45
9:b:99:ARG:NH2	4:i:94:LEU:HD12	2.32	0.45
12:e:56:SER:O	12:e:59:LEU:HB3	2.16	0.45
12:e:85:ALA:O	12:e:86:ARG:C	2.60	0.45
12:e:148:ASP:O	12:e:152:GLY:N	2.50	0.45
12:e:182:GLU:O	12:e:186:GLU:HG2	2.17	0.45
13:f:134:ILE:N	13:f:145:LEU:O	2.41	0.45
14:g:21:ASN:OD1	14:g:23:GLN:HB2	2.17	0.45
14:g:195:GLN:O	14:g:198:LYS:HB3	2.16	0.45
5:j:26:ASP:OD2	5:j:181:SER:HA	2.16	0.45
6:k:49:GLU:CG	7:l:166:LYS:HZ3	2.29	0.45
7:l:125:ALA:O	7:l:126:ASP:C	2.60	0.45
7:l:141:HIS:HA	7:l:144:ARG:NH2	2.31	0.45
7:l:217:SER:OG	7:l:218:ASN:N	2.49	0.45
7:l:230:TYR:CD1	7:l:233:LYS:HD3	2.52	0.45
7:l:237:LEU:HD21	7:l:272:PHE:HA	1.99	0.45
1:1:131:ALA:HA	1:1:140:ALA:O	2.16	0.45
2:2:48:LYS:HB2	2:2:158:GLN:HG2	1.98	0.45
2:2:95:HIS:NE2	2:2:99:LEU:HD11	2.32	0.45
2:2:113:LEU:CB	2:2:116:ALA:HB3	2.46	0.45
2:2:131:THR:HG22	2:2:135:GLN:NE2	2.31	0.45
2:2:218:TYR:HB2	2:2:247:VAL:HG21	1.98	0.45
2:2:226:ARG:NH1	3:3:213:GLU:OE1	2.50	0.45
2:2:260:GLY:O	3:3:51:ASP:HB3	2.17	0.45
4:4:77:THR:O	4:4:80:ASP:HB2	2.16	0.45
4:4:126:TYR:CE1	4:4:143:HIS:HB3	2.52	0.45
5:5:69:TYR:HA	10:C:96:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:135:ASP:CG	5:5:136:PHE:N	2.75	0.45
5:5:159:GLU:O	5:5:163:LEU:N	2.34	0.45
6:6:51:GLY:N	7:7:166:LYS:HZ1	2.14	0.45
6:6:52:ASP:N	7:7:166:LYS:HZ2	2.15	0.45
6:6:73:TYR:HB2	10:C:143:ARG:CZ	2.46	0.45
6:6:120:ASP:CG	6:6:122:LEU:HB2	2.41	0.45
6:6:153:THR:H	6:6:156:GLU:CD	2.25	0.45
7:7:272:PHE:HZ	7:7:285:VAL:HG21	1.82	0.45
7:7:273:TRP:CD2	5:j:201:LYS:HE3	2.51	0.45
8:A:62:LYS:HZ1	14:G:177:GLU:HB3	1.82	0.45
9:B:72:GLY:HA3	9:B:235:PHE:CE1	2.52	0.45
11:D:77:GLY:HA3	11:D:131:VAL:HG22	1.99	0.45
11:D:117:GLN:HB3	11:D:152:PRO:O	2.17	0.45
11:D:137:GLY:C	11:D:138:PHE:HD1	2.25	0.45
12:E:87:SER:O	12:E:91:HIS:N	2.35	0.45
12:E:191:LEU:HA	12:E:195:GLU:OE1	2.16	0.45
12:E:205:LYS:NZ	12:E:211:LYS:CG	2.80	0.45
13:F:213:ILE:HB	13:F:225:TYR:HB2	1.98	0.45
14:G:13:SER:HB3	14:G:126:TYR:CA	2.47	0.45
15:H:96:PRO:CD	16:I:119:ILE:HG21	2.45	0.45
15:H:102:CYS:HB3	15:H:169:GLU:HB3	1.98	0.45
15:H:144:LYS:NZ	15:H:155:PHE:CE2	2.58	0.45
15:H:432:ARG:NH2	15:H:449:LYS:NZ	2.64	0.45
16:I:100:ARG:O	16:I:104:LEU:HD11	2.17	0.45
16:I:116:ASP:O	16:I:131:SER:HA	2.16	0.45
17:J:65:LEU:HD23	17:J:65:LEU:HA	1.71	0.45
17:J:81:ASP:OD2	17:J:95:ILE:HD11	2.17	0.45
18:K:93:PRO:O	18:K:141:ARG:NH1	2.49	0.45
18:K:94:LEU:HB2	19:L:128:ILE:HB	1.99	0.45
18:K:95:VAL:O	19:L:128:ILE:HD12	2.17	0.45
18:K:153:ASP:OD1	18:K:153:ASP:N	2.49	0.45
19:L:67:HIS:HA	19:L:70:TYR:HD2	1.80	0.45
19:L:200:PRO:HA	19:L:203:ASN:HB3	1.99	0.45
19:L:265:GLU:O	19:L:269:TYR:N	2.50	0.45
20:M:37:LEU:O	20:M:71:ASN:HB2	2.17	0.45
20:M:242:THR:OG1	20:M:273:LYS:O	2.30	0.45
20:M:402:ALA:CB	20:M:410:VAL:HG22	2.46	0.45
21:N:8:PRO:HG3	27:T:83:ASN:O	2.16	0.45
21:N:11:ALA:HB2	27:T:83:ASN:HD22	1.80	0.45
21:N:295:THR:HA	21:N:298:TYR:HB2	1.99	0.45
21:N:298:TYR:HA	21:N:301:THR:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:586:ALA:O	21:N:590:ALA:N	2.34	0.45
21:N:718:GLU:OE2	21:N:723:GLY:O	2.35	0.45
22:O:23:HIS:HE1	22:O:25:LEU:HG	1.82	0.45
22:O:26:PHE:CD1	22:O:61:LEU:HD13	2.51	0.45
23:P:63:VAL:HG13	23:P:75:LEU:HD11	1.99	0.45
23:P:105:LYS:C	23:P:107:SER:N	2.73	0.45
23:P:164:GLN:NE2	23:P:202:LYS:HD3	2.32	0.45
23:P:182:GLU:HA	23:P:185:GLU:HB3	1.99	0.45
23:P:280:LEU:CD2	23:P:283:LYS:NZ	2.72	0.45
23:P:290:LEU:CD1	23:P:291:LYS:HG2	2.46	0.45
23:P:317:THR:HG22	23:P:318:TYR:CE1	2.51	0.45
24:Q:241:GLU:HA	24:Q:244:GLU:HB2	1.99	0.45
24:Q:383:ASP:HB2	24:Q:385:ILE:HG13	1.99	0.45
25:R:64:LYS:C	25:R:81:HIS:NE2	2.74	0.45
25:R:77:SER:O	25:R:92:ILE:HG23	2.17	0.45
26:S:151:GLU:OE2	26:S:153:GLU:HB2	2.17	0.45
26:S:239:ARG:HH11	26:S:239:ARG:HG2	1.82	0.45
26:S:315:LYS:HD3	26:S:374:ASP:OD2	2.17	0.45
26:S:338:MET:CA	26:S:339:GLN:C	2.87	0.45
26:S:363:THR:HG23	26:S:367:TYR:HD2	1.82	0.45
26:S:396:SER:C	26:S:398:THR:H	2.25	0.45
27:T:168:SER:O	27:T:172:SER:N	2.50	0.45
27:T:200:LEU:N	27:T:233:VAL:O	2.33	0.45
27:T:221:ALA:O	27:T:224:ARG:HB2	2.16	0.45
27:T:253:GLU:HG3	27:T:254:ASP:N	2.20	0.45
28:U:40:ASP:OD1	28:U:88:LYS:HB2	2.16	0.45
28:U:54:LEU:HD23	28:U:54:LEU:HA	1.68	0.45
29:V:25:GLU:HA	29:V:61:TYR:HD1	1.80	0.45
29:V:27:VAL:O	29:V:28:TYR:CD1	2.70	0.45
29:V:158:LEU:HD12	29:V:197:TYR:HB3	1.98	0.45
29:V:217:HIS:CD2	29:V:235:GLU:OE2	2.70	0.45
31:X:33:ILE:HA	31:X:50:TRP:HA	1.99	0.45
31:X:36:LYS:CE	31:X:49:GLU:HB2	2.47	0.45
31:X:87:PHE:CD2	31:X:99:PHE:HD2	2.33	0.45
33:Z:369:PHE:HA	33:Z:390:LEU:CD1	2.46	0.45
33:Z:407:VAL:HG21	33:Z:422:ILE:HD11	1.97	0.45
33:Z:502:ASN:OD1	33:Z:503:ASP:N	2.50	0.45
33:Z:623:ARG:NH1	33:Z:736:LEU:HD13	2.31	0.45
33:Z:985:LYS:HG2	33:Z:991:GLU:N	2.32	0.45
8:a:76:SER:HG	8:a:79:ILE:H	1.57	0.45
10:c:109:GLU:O	10:c:113:ARG:N	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:196:THR:HA	10:c:199:LYS:HB2	1.99	0.45
10:c:233:GLN:O	10:c:237:ASP:N	2.43	0.45
11:d:77:GLY:HA3	11:d:131:VAL:HG22	1.99	0.45
12:e:52:LYS:HB2	12:e:216:ASN:C	2.42	0.45
12:e:122:ARG:HG2	12:e:132:ARG:HD2	1.99	0.45
12:e:213:ASP:OD1	12:e:215:ASN:N	2.50	0.45
13:f:171:TYR:CD2	13:f:196:ALA:HA	2.52	0.45
14:g:126:TYR:N	14:g:129:VAL:CG2	2.79	0.45
4:i:40:GLY:HA2	4:i:137:SER:CB	2.46	0.45
4:i:66:ILE:HD12	4:i:70:ILE:HG22	1.99	0.45
7:l:179:TYR:CD2	7:l:185:PRO:HG3	2.52	0.45
7:l:230:TYR:O	7:l:233:LYS:HB3	2.17	0.45
7:l:243:ASP:CG	7:l:246:SER:H	2.24	0.45
1:1:67:ASP:O	1:1:69:ILE:HG13	2.17	0.45
1:1:180:GLU:HB2	1:1:187:VAL:HB	1.97	0.45
2:2:76:ILE:HD13	2:2:86:ILE:HD12	1.99	0.45
2:2:253:ASP:HB3	4:4:173:GLN:NE2	2.29	0.45
4:4:116:LEU:O	4:4:119:TYR:N	2.50	0.45
6:6:41:HIS:CD2	6:6:185:ASP:O	2.70	0.45
7:7:128:GLN:HG2	1:8:113:GLN:NE2	2.29	0.45
7:7:163:TYR:HA	7:7:166:LYS:HB2	1.98	0.45
1:8:76:PHE:HD2	1:8:79:ASP:H	1.64	0.45
1:8:205:ASP:OD1	4:i:229:GLN:N	2.35	0.45
2:9:50:ASP:N	2:9:201:THR:O	2.35	0.45
2:9:161:ARG:CG	2:9:171:SER:HB2	2.46	0.45
8:A:76:SER:N	8:A:79:ILE:O	2.35	0.45
8:A:122:ALA:HB1	8:A:161:GLY:O	2.17	0.45
8:A:129:THR:HG22	9:B:128:ARG:HH21	1.82	0.45
11:D:146:LYS:HD2	11:D:148:TYR:OH	2.16	0.45
14:G:46:VAL:HG22	14:G:140:GLY:HA2	1.99	0.45
14:G:195:GLN:O	14:G:198:LYS:HB3	2.16	0.45
15:H:147:ILE:HA	15:H:155:PHE:O	2.16	0.45
15:H:204:PRO:HB2	15:H:261:ARG:HB3	1.98	0.45
15:H:208:TYR:HA	15:H:211:VAL:CG2	2.46	0.45
15:H:281:GLN:HB2	15:H:286:GLU:CD	2.41	0.45
18:K:74:HIS:O	18:K:78:GLU:N	2.36	0.45
18:K:252:ARG:O	18:K:255:ARG:HB3	2.17	0.45
18:K:281:ARG:HH21	18:K:284:ALA:HA	1.82	0.45
19:L:390:ASP:OD2	19:L:426:LYS:HE2	2.16	0.45
20:M:157:ASP:OD1	20:M:158:THR:N	2.50	0.45
20:M:178:GLU:HB2	20:M:233:ARG:C	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:387:ASN:O	20:M:388:GLY:C	2.59	0.45
21:N:11:ALA:HB2	27:T:83:ASN:HB2	1.99	0.45
21:N:123:PHE:CG	21:N:124:TYR:N	2.85	0.45
21:N:207:LEU:C	21:N:210:SER:HG	2.24	0.45
21:N:346:ASN:CB	21:N:350:LYS:NZ	2.80	0.45
21:N:360:GLN:O	21:N:361:ASN:C	2.60	0.45
21:N:410:LEU:N	21:N:452:LEU:HD21	2.31	0.45
21:N:467:LYS:O	21:N:470:LEU:HB3	2.17	0.45
21:N:497:ALA:O	21:N:501:MET:HG2	2.17	0.45
21:N:539:MET:HB3	21:N:547:LEU:O	2.17	0.45
23:P:170:SER:HB3	23:P:173:MET:HG2	1.99	0.45
23:P:205:LYS:O	23:P:208:PHE:HB3	2.16	0.45
23:P:234:TYR:HB3	23:P:267:PHE:O	2.17	0.45
25:R:205:GLU:HG3	25:R:208:ASN:ND2	2.24	0.45
25:R:297:TYR:C	25:R:299:SER:N	2.73	0.45
26:S:181:ALA:HB3	26:S:232:MET:HE3	1.99	0.45
27:T:6:GLU:HG2	27:T:7:LEU:N	2.32	0.45
27:T:30:ILE:O	27:T:34:LEU:HG	2.17	0.45
27:T:158:GLN:HE22	27:T:210:PHE:HE1	1.65	0.45
27:T:194:GLU:OE2	27:T:238:GLN:O	2.35	0.45
28:U:38:LEU:HD23	28:U:38:LEU:HA	1.76	0.45
28:U:264:ALA:C	28:U:266:THR:N	2.72	0.45
29:V:54:LEU:HD23	29:V:54:LEU:HA	1.70	0.45
29:V:111:HIS:HB3	29:V:114:PHE:HB2	1.98	0.45
30:W:66:THR:HG23	30:W:71:LYS:HE3	1.99	0.45
30:W:188:SER:C	30:W:190:ILE:N	2.75	0.45
31:X:85:ARG:N	31:X:116:ALA:H	2.14	0.45
31:X:85:ARG:NE	31:X:117:LYS:HB3	2.32	0.45
33:Z:314:LEU:HB2	33:Z:341:TYR:OH	2.17	0.45
33:Z:790:MET:O	33:Z:793:PHE:HB2	2.17	0.45
9:b:38:LYS:HE2	9:b:160:LYS:HA	1.98	0.45
10:c:15:PRO:HA	11:d:22:TYR:CG	2.52	0.45
10:c:150:THR:O	10:c:157:TYR:HB2	2.16	0.45
11:d:42:VAL:HG23	11:d:138:PHE:CE1	2.52	0.45
11:d:92:GLU:O	11:d:95:SER:HB3	2.17	0.45
11:d:92:GLU:HB2	11:d:112:TYR:CZ	2.52	0.45
11:d:141:ARG:HH21	7:l:182:LYS:HE2	1.82	0.45
11:d:216:LYS:HB2	11:d:220:ASP:HB3	1.98	0.45
12:e:204:LEU:O	12:e:207:VAL:N	2.50	0.45
13:f:86:ASN:O	13:f:90:GLN:HG3	2.16	0.45
14:g:8:TYR:HA	14:g:14:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:13:SER:HB3	14:g:126:TYR:CA	2.47	0.45
14:g:21:ASN:ND2	14:g:24:VAL:HG23	2.32	0.45
14:g:224:THR:OG1	14:g:227:LEU:O	2.23	0.45
3:h:34:GLY:HA2	3:h:53:LEU:HD11	1.98	0.45
3:h:71:THR:HA	3:h:74:ILE:HD12	1.99	0.45
3:h:196:VAL:N	3:h:203:GLU:O	2.36	0.45
4:i:34:GLY:HA3	4:i:43:ILE:HG22	1.99	0.45
4:i:159:GLY:N	4:i:195:ASP:OD2	2.50	0.45
5:j:40:PHE:CE2	5:j:42:LYS:HG2	2.51	0.45
7:l:174:THR:O	7:l:189:TYR:HA	2.17	0.45
2:2:136:ARG:NH1	2:2:143:LEU:HD21	2.32	0.45
3:3:27:PHE:CE2	3:3:167:LYS:HA	2.52	0.45
4:4:47:THR:OG1	4:4:201:ASN:N	2.46	0.45
6:6:36:ARG:O	6:6:43:LEU:HD12	2.16	0.45
6:6:41:HIS:HB3	6:6:107:TYR:O	2.16	0.45
1:8:185:GLY:HA3	4:i:240:ALA:HB2	1.98	0.45
2:9:117:GLU:HB3	13:F:139:LYS:HB3	1.97	0.45
9:B:5:TYR:OH	10:C:3:SER:HA	2.16	0.45
9:B:97:TYR:CD2	9:B:101:TYR:HD2	2.34	0.45
10:C:77:VAL:HG22	10:C:135:PHE:HE2	1.82	0.45
10:C:100:LYS:HE3	10:C:100:LYS:HB3	1.68	0.45
10:C:117:ASP:O	10:C:120:GLN:HB3	2.17	0.45
10:C:158:THR:HG1	10:C:160:TRP:HE1	1.63	0.45
11:D:42:VAL:HG23	11:D:138:PHE:HE1	1.82	0.45
11:D:214:VAL:O	11:D:221:ILE:HA	2.17	0.45
12:E:18:GLU:HA	13:F:27:GLU:HG2	1.98	0.45
12:E:70:ILE:HB	12:E:74:ILE:HG22	1.97	0.45
12:E:122:ARG:CA	12:E:132:ARG:HB3	2.41	0.45
12:E:154:GLN:HG2	12:E:166:ARG:CZ	2.46	0.45
12:E:213:ASP:OD1	12:E:215:ASN:N	2.50	0.45
12:E:214:GLU:HB2	12:E:233:ASN:CA	2.45	0.45
14:G:21:ASN:ND2	14:G:24:VAL:HG23	2.32	0.45
15:H:69:VAL:HG22	16:I:153:THR:CG2	2.47	0.45
15:H:155:PHE:HB3	20:M:76:PRO:CD	2.38	0.45
15:H:225:VAL:HB	15:H:263:VAL:HG11	1.98	0.45
16:I:132:ILE:HG13	16:I:158:GLY:HA2	1.98	0.45
16:I:384:LYS:CE	16:I:387:LEU:HD12	2.45	0.45
17:J:81:ASP:CG	17:J:83:LYS:H	2.25	0.45
17:J:122:LEU:HA	17:J:122:LEU:HD23	1.71	0.45
18:K:339:GLU:O	18:K:341:PRO:HD3	2.17	0.45
18:K:342:SER:HA	18:K:343:LEU:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:382:VAL:HA	18:K:385:ALA:HB3	1.99	0.45
20:M:18:LEU:HD23	20:M:21:GLU:OE1	2.17	0.45
20:M:31:GLN:O	20:M:34:ALA:N	2.49	0.45
20:M:253:GLN:HG3	20:M:259:GLY:H	1.82	0.45
20:M:329:ARG:NH2	20:M:346:LYS:HZ3	2.14	0.45
21:N:86:LYS:HE2	21:N:132:LYS:HG2	1.99	0.45
21:N:197:VAL:HG12	21:N:199:ASN:N	2.32	0.45
21:N:210:SER:HA	21:N:213:PHE:HD2	1.80	0.45
21:N:346:ASN:CB	21:N:350:LYS:HZ2	2.26	0.45
21:N:485:MET:O	21:N:488:CYS:HB3	2.17	0.45
21:N:650:ASP:HB3	21:N:695:ALA:HB2	1.99	0.45
21:N:758:VAL:N	21:N:871:MET:HA	2.17	0.45
22:O:8:ASP:HB3	22:O:26:PHE:HE2	1.82	0.45
22:O:51:ASP:HA	22:O:81:TYR:CD1	2.52	0.45
22:O:215:TYR:HD1	22:O:248:TYR:CE1	2.35	0.45
22:O:236:HIS:O	22:O:238:ILE:HG12	2.17	0.45
23:P:187:SER:O	23:P:192:ASP:N	2.50	0.45
23:P:261:LEU:HA	23:P:264:ILE:HD12	1.98	0.45
24:Q:257:LYS:HA	24:Q:260:GLN:CD	2.42	0.45
24:Q:386:PHE:HE2	24:Q:397:LEU:HD21	1.81	0.45
25:R:23:ASN:HB2	25:R:242:GLU:O	2.16	0.45
26:S:9:ASP:O	26:S:12:SER:OG	2.19	0.45
26:S:198:SER:O	27:T:93:ASN:ND2	2.48	0.45
26:S:268:LEU:HD23	26:S:271:ARG:HD3	1.98	0.45
26:S:330:LEU:HB3	26:S:342:LEU:HD21	1.98	0.45
26:S:338:MET:HG3	26:S:344:PRO:HD2	1.99	0.45
26:S:389:LYS:O	26:S:392:ILE:HB	2.16	0.45
26:S:409:LEU:HA	26:S:412:ASN:ND2	2.32	0.45
26:S:422:MET:O	26:S:425:ARG:HB3	2.17	0.45
26:S:478:SER:O	26:S:479:MET:C	2.60	0.45
27:T:133:ILE:HG23	27:T:137:GLU:HG2	1.99	0.45
28:U:266:THR:O	28:U:269:THR:HB	2.17	0.45
29:V:88:GLN:CG	29:V:89:ALA:N	2.80	0.45
31:X:22:ARG:HH22	31:X:78:ILE:CD1	2.30	0.45
33:Z:317:GLN:O	33:Z:321:PHE:HB3	2.17	0.45
33:Z:399:LEU:O	33:Z:403:ASN:HB2	2.16	0.45
33:Z:449:ALA:HB1	33:Z:488:ALA:CB	2.47	0.45
33:Z:484:LYS:HA	33:Z:487:SER:HB2	1.99	0.45
33:Z:557:GLU:OE1	33:Z:562:TRP:HD1	2.00	0.45
33:Z:571:GLY:O	33:Z:575:MET:HE3	2.17	0.45
33:Z:968:ASP:OD2	33:Z:983:LEU:HD21	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:970:TYR:CE2	33:Z:993:GLU:HG2	2.51	0.45
33:Z:985:LYS:HG2	33:Z:991:GLU:H	1.82	0.45
8:a:43:LEU:N	8:a:54:ILE:O	2.40	0.45
8:a:102:ALA:HB1	3:h:80:TYR:CD1	2.52	0.45
8:a:185:HIS:NE2	8:a:205:PHE:HE1	2.14	0.45
9:b:43:VAL:CG2	9:b:145:PHE:HB3	2.43	0.45
9:b:222:LEU:HD11	9:b:224:TYR:CZ	2.52	0.45
10:c:77:VAL:HG22	10:c:135:PHE:HE2	1.82	0.45
13:f:96:SER:HA	13:f:101:ARG:N	2.32	0.45
13:f:186:PRO:O	13:f:189:LEU:HB2	2.16	0.45
13:f:213:ILE:HB	13:f:225:TYR:HB2	1.99	0.45
3:h:78:VAL:HG22	3:h:100:VAL:HG12	1.99	0.45
3:h:211:GLU:HG2	3:h:212:TYR:N	2.32	0.45
4:i:105:VAL:HG21	4:i:138:HIS:HB2	1.98	0.45
4:i:162:ALA:HB1	4:i:190:ALA:HB1	1.99	0.45
5:j:29:LEU:O	5:j:36:VAL:N	2.31	0.45
5:j:171:LEU:O	5:j:175:ALA:N	2.37	0.45
6:k:41:HIS:CD2	6:k:185:ASP:O	2.70	0.45
7:l:148:ARG:CZ	7:l:180:THR:HG22	2.47	0.45
1:1:30:THR:HA	1:1:74:ASN:ND2	2.33	0.44
1:1:142:TYR:HD1	1:1:152:ARG:HA	1.82	0.44
2:2:58:ASP:HA	2:2:228:PHE:HB2	1.99	0.44
2:2:242:LYS:CB	2:2:245:LEU:HD11	2.43	0.44
5:5:98:ARG:O	5:5:99:ARG:C	2.59	0.44
6:6:36:ARG:HB3	6:6:61:GLN:OE1	2.17	0.44
7:7:127:CYS:HB3	7:7:131:GLU:CD	2.42	0.44
7:7:156:LYS:O	7:7:159:SER:HB3	2.17	0.44
7:7:256:THR:OG1	7:7:258:ASP:HB2	2.16	0.44
1:8:67:ASP:O	1:8:69:ILE:HG13	2.17	0.44
1:8:76:PHE:CZ	2:9:168:VAL:HG23	2.52	0.44
2:9:176:ALA:HB3	2:9:181:ALA:HA	1.99	0.44
8:A:26:TYR:HA	8:A:29:GLU:OE1	2.16	0.44
8:A:128:TYR:HA	8:A:131:ARG:HB2	1.99	0.44
9:B:41:ASN:N	9:B:41:ASN:OD1	2.48	0.44
10:C:36:ILE:HG12	10:C:164:SER:HB2	2.00	0.44
10:C:77:VAL:HG22	10:C:135:PHE:CE2	2.53	0.44
12:E:38:ILE:HA	12:E:171:ALA:HA	1.98	0.44
12:E:179:ALA:O	12:E:182:GLU:HB2	2.17	0.44
14:G:174:ALA:O	14:G:178:LYS:HG3	2.16	0.44
16:I:404:LEU:HD13	17:J:178:GLY:O	2.17	0.44
17:J:47:GLN:HA	17:J:50:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:164:ILE:HG23	17:J:289:LYS:HD2	1.98	0.44
17:J:345:LYS:HA	17:J:348:GLU:HB2	1.99	0.44
18:K:48:TYR:CD2	21:N:156:ILE:HD11	2.53	0.44
18:K:50:LYS:O	18:K:53:LYS:HB3	2.16	0.44
18:K:330:ARG:O	18:K:333:ARG:HB2	2.18	0.44
19:L:85:GLU:HA	19:L:88:TYR:CD2	2.52	0.44
19:L:308:LEU:HD22	19:L:312:MET:HE3	1.99	0.44
19:L:372:GLY:HA2	19:L:376:PHE:HZ	1.83	0.44
21:N:68:VAL:HG12	21:N:72:LEU:HG	1.99	0.44
21:N:381:GLU:HA	21:N:384:LYS:CE	2.47	0.44
21:N:384:LYS:O	21:N:388:PRO:HD3	2.17	0.44
21:N:529:GLN:HB3	21:N:559:TYR:CE1	2.52	0.44
22:O:69:PHE:HE2	22:O:109:LEU:HB2	1.81	0.44
22:O:166:ARG:HA	22:O:166:ARG:HD2	1.79	0.44
22:O:232:GLU:C	22:O:234:LEU:H	2.24	0.44
22:O:323:ASN:O	22:O:327:LEU:N	2.50	0.44
22:O:338:LYS:HZ3	22:O:352:TRP:C	2.23	0.44
23:P:48:GLN:HA	23:P:86:HIS:HB2	1.98	0.44
23:P:107:SER:CB	23:P:111:ASP:HB2	2.31	0.44
23:P:141:LYS:O	23:P:145:GLU:HG3	2.17	0.44
23:P:311:TRP:CZ2	23:P:338:TRP:CD1	3.05	0.44
23:P:338:TRP:CE3	23:P:339:GLU:N	2.85	0.44
24:Q:12:ARG:O	24:Q:15:VAL:HB	2.17	0.44
24:Q:83:GLU:HA	24:Q:86:MET:HB2	1.99	0.44
24:Q:229:ASP:OD1	24:Q:229:ASP:N	2.46	0.44
24:Q:355:GLU:OE1	24:Q:399:VAL:HA	2.18	0.44
24:Q:408:THR:HA	29:V:255:ILE:HD12	1.99	0.44
24:Q:418:GLN:HA	24:Q:421:LYS:HZ1	1.82	0.44
25:R:67:CYS:HA	25:R:92:ILE:HD11	1.99	0.44
25:R:134:TRP:O	25:R:153:THR:HG21	2.16	0.44
25:R:303:SER:O	25:R:306:PRO:HD2	2.17	0.44
25:R:349:SER:HB3	25:R:352:SER:OG	2.17	0.44
25:R:406:GLN:HA	25:R:406:GLN:HE21	1.81	0.44
25:R:411:LEU:HD23	25:R:414:LEU:HD12	1.99	0.44
26:S:58:LYS:O	26:S:59:ASP:C	2.59	0.44
26:S:357:LEU:O	26:S:361:THR:N	2.22	0.44
26:S:460:VAL:HA	26:S:463:GLU:HB3	1.99	0.44
27:T:50:ILE:O	27:T:53:ASN:N	2.48	0.44
27:T:89:TYR:HE1	27:T:102:LYS:HB3	1.80	0.44
27:T:129:LEU:CD2	27:T:132:HIS:HA	2.47	0.44
30:W:133:LYS:HD2	30:W:161:VAL:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:48:PHE:H	31:X:66:LEU:N	2.15	0.44
33:Z:217:GLU:HG2	33:Z:218:GLU:HG3	1.99	0.44
33:Z:291:GLU:O	33:Z:295:ARG:HG3	2.17	0.44
33:Z:322:GLU:O	33:Z:499:GLY:HA2	2.17	0.44
33:Z:544:THR:HA	33:Z:547:MET:HB3	1.98	0.44
8:a:26:TYR:HA	8:a:29:GLU:OE1	2.16	0.44
9:b:21:ILE:HD11	9:b:122:THR:CG2	2.47	0.44
10:c:191:GLU:O	10:c:195:LYS:HG2	2.17	0.44
11:d:42:VAL:HB	11:d:215:VAL:CG1	2.46	0.44
11:d:76:SER:O	11:d:131:VAL:HA	2.18	0.44
11:d:146:LYS:HD2	11:d:148:TYR:OH	2.16	0.44
11:d:169:LYS:HA	11:d:172:ARG:HB3	1.98	0.44
12:e:191:LEU:HA	12:e:195:GLU:OE1	2.16	0.44
13:f:84:LEU:HA	13:f:87:TYR:HB3	2.00	0.44
3:h:214:GLN:N	3:h:214:GLN:OE1	2.50	0.44
4:i:71:TRP:HB2	4:i:207:MET:SD	2.57	0.44
5:j:75:LYS:HG3	5:j:80:ARG:O	2.17	0.44
5:j:118:LYS:HZ2	5:j:120:PHE:HB2	1.82	0.44
6:k:39:SER:HB2	6:k:40:PRO:HD2	1.99	0.44
6:k:42:THR:OG1	6:k:77:PRO:HG3	2.17	0.44
6:k:116:LEU:C	6:k:127:GLU:HG3	2.42	0.44
7:l:166:LYS:HD2	7:l:193:ASP:O	2.17	0.44
1:1:35:ALA:HB3	1:1:154:GLN:NE2	2.33	0.44
1:1:176:LYS:C	1:1:178:GLN:H	2.26	0.44
1:1:194:LEU:HD22	1:1:198:GLU:HG2	1.99	0.44
2:2:179:PHE:HE1	3:3:44:TYR:HD1	1.65	0.44
2:2:183:MET:C	2:2:186:PRO:HD2	2.41	0.44
3:3:41:THR:OG1	3:3:44:TYR:HD2	2.01	0.44
3:3:191:VAL:HA	3:3:212:TYR:OH	2.17	0.44
4:4:78:ALA:HB3	5:5:129:CYS:SG	2.57	0.44
4:4:159:GLY:N	4:4:195:ASP:OD2	2.50	0.44
6:6:39:SER:HB2	6:6:40:PRO:HD2	1.99	0.44
6:6:84:VAL:HG11	6:6:104:ILE:HD11	2.00	0.44
6:6:85:ARG:HB2	6:6:125:LYS:HB2	1.97	0.44
6:6:88:LEU:HD22	6:6:98:TYR:HB2	1.99	0.44
6:6:118:GLN:O	6:6:126:VAL:N	2.42	0.44
7:7:178:GLY:HA2	7:7:255:VAL:HG11	1.99	0.44
1:8:23:PRO:HG2	1:8:24:TYR:CD2	2.52	0.44
1:8:109:ALA:O	1:8:113:GLN:N	2.34	0.44
1:8:145:ASP:HB3	1:8:149:SER:H	1.80	0.44
1:8:220:GLY:HA2	1:8:238:LEU:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:95:HIS:NE2	2:9:99:LEU:HD11	2.32	0.44
2:9:179:PHE:CE2	2:9:221:ASP:HB2	2.53	0.44
8:A:62:LYS:NZ	14:G:181:ASP:OD2	2.40	0.44
8:A:133:TYR:O	14:G:126:TYR:CD1	2.71	0.44
9:B:94:HIS:CD2	9:B:98:LYS:HD3	2.52	0.44
9:B:222:LEU:HD11	9:B:224:TYR:CZ	2.52	0.44
10:C:228:LYS:HE3	10:C:230:PHE:CD1	2.52	0.44
11:D:92:GLU:HB2	11:D:112:TYR:CZ	2.52	0.44
11:D:159:TRP:CH2	12:E:56:SER:HB3	2.51	0.44
13:F:84:LEU:HA	13:F:87:TYR:HB3	2.00	0.44
13:F:144:LEU:HB3	13:F:156:LEU:O	2.17	0.44
14:G:107:ILE:HG23	14:G:112:PHE:HB2	1.98	0.44
15:H:222:ARG:O	15:H:226:GLU:N	2.50	0.44
15:H:235:PHE:HD2	15:H:242:PRO:CD	2.30	0.44
15:H:330:GLN:O	15:H:334:LEU:HG	2.16	0.44
17:J:382:PHE:O	17:J:386:VAL:N	2.43	0.44
18:K:106:ASN:HD21	18:K:124:SER:CB	2.28	0.44
18:K:172:ALA:CA	18:K:181:LYS:NZ	2.80	0.44
18:K:215:PRO:C	18:K:217:THR:N	2.76	0.44
19:L:161:ARG:NH2	19:L:265:GLU:OE1	2.50	0.44
20:M:173:ASP:OD2	20:M:176:PRO:HG3	2.18	0.44
20:M:368:MET:O	20:M:370:THR:HG23	2.16	0.44
21:N:83:LEU:HD22	21:N:132:LYS:HB2	2.00	0.44
21:N:282:TYR:HD1	21:N:283:ASP:C	2.24	0.44
21:N:459:ASN:HB3	21:N:462:VAL:CG2	2.47	0.44
21:N:474:SER:OG	21:N:476:THR:HB	2.16	0.44
21:N:758:VAL:HG23	21:N:874:ILE:HG13	1.97	0.44
21:N:889:ARG:HD2	21:N:912:GLU:OE1	2.17	0.44
22:O:14:LEU:O	30:W:18:ASN:OD1	2.34	0.44
22:O:34:GLU:OE1	22:O:36:LYS:HB2	2.18	0.44
22:O:166:ARG:CA	22:O:169:ASN:HB3	2.39	0.44
23:P:71:LYS:HD2	23:P:74:ASP:CG	2.41	0.44
23:P:104:LEU:CA	23:P:107:SER:HB2	2.48	0.44
23:P:109:SER:O	23:P:112:LEU:HB2	2.17	0.44
23:P:115:ARG:O	23:P:119:ILE:HG12	2.17	0.44
23:P:118:VAL:HG12	23:P:125:VAL:HG11	2.00	0.44
23:P:119:ILE:HD12	23:P:126:THR:CG2	2.47	0.44
23:P:308:LEU:HG	23:P:369:LEU:O	2.17	0.44
23:P:344:ARG:HA	23:P:347:GLU:OE1	2.17	0.44
23:P:394:ASN:HA	24:Q:357:VAL:CG1	2.47	0.44
23:P:396:PRO:CD	24:Q:357:VAL:HA	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:434:THR:HG22	23:P:438:ILE:HD12	1.99	0.44
25:R:50:VAL:O	25:R:54:ILE:N	2.35	0.44
25:R:198:ILE:HG12	25:R:200:LYS:H	1.82	0.44
25:R:223:ASN:OD1	25:R:227:ALA:HB3	2.16	0.44
25:R:411:LEU:HD13	26:S:467:PHE:CD2	2.52	0.44
26:S:185:PHE:CE1	26:S:192:GLU:OE2	2.68	0.44
26:S:220:ILE:O	26:S:222:SER:N	2.50	0.44
26:S:259:TYR:CE2	26:S:272:TYR:HB2	2.52	0.44
26:S:270:ALA:O	26:S:274:PHE:N	2.44	0.44
26:S:311:GLN:HE22	26:S:336:SER:C	2.26	0.44
26:S:368:LYS:CE	27:T:133:ILE:HD13	2.47	0.44
26:S:458:GLN:NE2	28:U:273:LEU:HB2	2.33	0.44
27:T:90:PHE:HE2	27:T:129:LEU:HD12	1.81	0.44
27:T:148:LEU:O	27:T:151:TRP:HB2	2.16	0.44
28:U:53:ALA:HB3	29:V:98:THR:HG23	1.99	0.44
29:V:58:VAL:HG23	29:V:64:ASN:ND2	2.33	0.44
30:W:8:LEU:HD11	30:W:113:PHE:HE2	1.83	0.44
33:Z:362:LEU:HD11	33:Z:910:PRO:HB2	1.99	0.44
33:Z:792:VAL:O	33:Z:796:LEU:N	2.29	0.44
9:b:37:ILE:HG23	9:b:161:ALA:HB2	1.99	0.44
10:c:83:ASP:HB2	10:c:133:VAL:CG2	2.47	0.44
10:c:120:GLN:HE22	11:d:81:ASP:HA	1.81	0.44
11:d:16:HIS:CE1	12:e:33:LEU:HD11	2.52	0.44
11:d:65:SER:O	11:d:73:LEU:N	2.41	0.44
12:e:21:LEU:O	12:e:24:VAL:HB	2.17	0.44
12:e:122:ARG:HA	12:e:132:ARG:CD	2.48	0.44
12:e:179:ALA:O	12:e:182:GLU:HB2	2.17	0.44
13:f:107:ARG:O	13:f:111:LEU:HG	2.17	0.44
13:f:145:LEU:HA	13:f:155:GLU:HA	2.00	0.44
14:g:46:VAL:HG22	14:g:140:GLY:HA2	1.99	0.44
3:h:162:ARG:CZ	3:h:165:MET:HG2	2.48	0.44
4:i:108:ALA:HA	4:i:111:MET:HB2	2.00	0.44
5:j:197:LYS:HE2	5:j:199:TYR:CZ	2.52	0.44
6:k:36:ARG:HB3	6:k:61:GLN:OE1	2.17	0.44
6:k:88:LEU:HD22	6:k:98:TYR:HB2	1.99	0.44
6:k:158:LEU:HB3	6:k:198:GLN:OE1	2.17	0.44
7:l:163:TYR:HA	7:l:166:LYS:HB2	1.98	0.44
7:l:279:GLU:OE2	7:l:281:SER:HB3	2.16	0.44
1:1:109:ALA:O	1:1:113:GLN:N	2.34	0.44
2:2:162:TYR:CG	2:2:163:VAL:N	2.86	0.44
2:2:259:LYS:HD2	2:2:265:LYS:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:108:ALA:HA	4:4:111:MET:HB2	2.00	0.44
5:5:72:ASN:ND2	10:C:96:GLN:HE22	2.14	0.44
5:5:135:ASP:CG	5:5:136:PHE:H	2.19	0.44
5:5:169:GLN:C	5:5:173:ASN:HD22	2.22	0.44
5:5:197:LYS:HE2	5:5:199:TYR:CZ	2.52	0.44
6:6:91:SER:HB2	6:6:98:TYR:H	1.83	0.44
7:7:148:ARG:CZ	7:7:180:THR:HG22	2.47	0.44
7:7:174:THR:O	7:7:189:TYR:HA	2.17	0.44
7:7:196:ARG:CZ	11:D:101:GLU:OE2	2.65	0.44
7:7:267:ASP:CG	5:j:203:ARG:HH12	2.12	0.44
1:8:35:ALA:HB3	1:8:154:GLN:NE2	2.33	0.44
2:9:48:LYS:HB2	2:9:158:GLN:HG2	1.98	0.44
2:9:105:THR:O	2:9:108:ALA:HB3	2.17	0.44
2:9:218:TYR:HB2	2:9:247:VAL:HG21	1.98	0.44
8:A:229:THR:OG1	8:A:232:LYS:O	2.20	0.44
9:B:39:ALA:N	9:B:42:GLY:O	2.51	0.44
12:E:204:LEU:O	12:E:207:VAL:N	2.50	0.44
12:E:212:LEU:CD2	12:E:240:ILE:HG12	2.43	0.44
12:E:222:ILE:HA	12:E:228:PHE:HA	1.99	0.44
13:F:86:ASN:O	13:F:90:GLN:HG3	2.17	0.44
14:G:44:ASP:OD1	14:G:45:GLY:N	2.51	0.44
15:H:207:THR:O	15:H:211:VAL:HG21	2.17	0.44
15:H:227:LEU:O	15:H:231:SER:N	2.26	0.44
15:H:422:VAL:HG22	15:H:447:VAL:HG22	2.00	0.44
16:I:361:ILE:HG23	16:I:365:HIS:CE1	2.52	0.44
17:J:273:LEU:HD23	17:J:276:LEU:HD12	1.99	0.44
19:L:118:ILE:HA	19:L:127:TYR:O	2.17	0.44
19:L:353:ASN:HB2	19:L:356:GLY:H	1.82	0.44
20:M:30:LEU:HA	20:M:33:ARG:HD2	2.00	0.44
20:M:345:ARG:O	20:M:347:ILE:HG12	2.17	0.44
21:N:63:LEU:HD12	21:N:66:SER:HB2	1.99	0.44
21:N:102:VAL:O	21:N:106:ILE:HG13	2.16	0.44
21:N:181:GLU:HA	21:N:184:LYS:HB2	1.99	0.44
21:N:386:MET:HB3	21:N:404:SER:HB3	1.98	0.44
21:N:518:ALA:HA	21:N:521:LEU:HD12	2.00	0.44
21:N:641:LEU:O	21:N:645:THR:HG23	2.17	0.44
21:N:778:LYS:HG2	21:N:860:LYS:HA	1.98	0.44
22:O:29:PHE:CA	22:O:32:PHE:HB3	2.47	0.44
23:P:200:SER:OG	23:P:201:ARG:N	2.48	0.44
23:P:278:ASN:CA	23:P:281:ILE:HG13	2.44	0.44
24:Q:47:ASP:HB2	24:Q:50:ARG:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:126:LYS:CG	24:Q:134:LYS:NZ	2.75	0.44
24:Q:220:LEU:HD12	24:Q:239:PHE:CE1	2.51	0.44
24:Q:273:ASN:HB3	24:Q:306:TYR:CE2	2.52	0.44
25:R:31:PHE:O	25:R:35:GLN:N	2.49	0.44
25:R:60:ALA:HA	25:R:63:TYR:HB3	1.98	0.44
25:R:320:LYS:O	25:R:324:ARG:HG3	2.17	0.44
26:S:170:TYR:CE1	26:S:174:ARG:HD3	2.51	0.44
26:S:330:LEU:CA	26:S:333:PHE:HB2	2.47	0.44
26:S:337:ASN:H	26:S:339:GLN:CD	2.26	0.44
28:U:32:ARG:NH2	28:U:100:ARG:HB2	2.33	0.44
28:U:57:GLU:CD	30:W:100:HIS:HE2	2.24	0.44
30:W:163:ASN:H	30:W:168:THR:HG21	1.82	0.44
31:X:13:GLY:HA2	31:X:50:TRP:NE1	2.32	0.44
33:Z:317:GLN:HG2	33:Z:872:VAL:HB	1.98	0.44
33:Z:407:VAL:HG13	33:Z:418:ALA:HB3	1.99	0.44
33:Z:551:LEU:HD11	33:Z:586:GLU:CD	2.43	0.44
8:a:20:SER:OG	8:a:24:ARG:N	2.48	0.44
8:a:234:PHE:HD1	8:a:235:THR:O	2.01	0.44
9:b:124:SER:HB2	9:b:127:VAL:CG2	2.48	0.44
10:c:59:GLN:OE1	10:c:209:ASP:HA	2.17	0.44
11:d:73:LEU:CD1	11:d:135:ILE:HG12	2.44	0.44
12:e:222:ILE:HA	12:e:228:PHE:HA	1.99	0.44
14:g:235:LEU:HA	14:g:238:GLU:HB3	2.00	0.44
4:i:126:TYR:CE1	4:i:143:HIS:HB3	2.52	0.44
5:j:2:SER:O	5:j:4:PRO:HD3	2.18	0.44
5:j:183:TRP:HA	5:j:204:GLN:OE1	2.17	0.44
6:k:91:SER:HB2	6:k:98:TYR:H	1.83	0.44
6:k:129:PRO:HB3	6:k:148:TYR:OH	2.17	0.44
7:l:120:MET:HA	7:l:127:CYS:SG	2.57	0.44
1:1:37:GLU:N	1:1:193:TYR:OH	2.41	0.44
1:1:47:ARG:CZ	1:1:218:GLY:HA3	2.48	0.44
1:1:110:ARG:CZ	7:l:132:THR:HG21	2.47	0.44
2:2:129:LEU:O	2:2:132:VAL:N	2.50	0.44
2:2:143:LEU:HD23	2:2:143:LEU:HA	1.59	0.44
2:2:177:THR:C	2:2:181:ALA:H	2.25	0.44
3:3:78:VAL:HG12	3:3:82:LEU:HD11	1.99	0.44
3:3:88:GLN:CA	8:A:98:LYS:HZ3	2.17	0.44
4:4:40:GLY:HA2	4:4:137:SER:CB	2.46	0.44
4:4:91:ASN:HB2	4:4:111:MET:HE1	1.99	0.44
4:4:249:ILE:HG21	5:5:48:HIS:HB3	2.00	0.44
5:5:46:TYR:O	5:5:49:VAL:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:52:GLY:O	5:5:108:VAL:N	2.45	0.44
5:5:69:TYR:HB2	10:C:100:LYS:HD3	1.99	0.44
5:5:142:ALA:O	5:5:145:GLN:HB2	2.17	0.44
5:5:205:ASP:HA	7:l:241:HIS:HA	1.99	0.44
6:6:42:THR:OG1	6:6:77:PRO:HG3	2.17	0.44
6:6:81:SER:CB	6:6:125:LYS:HD2	2.36	0.44
6:6:162:LYS:HA	6:6:195:PHE:CZ	2.53	0.44
6:6:175:ASP:N	6:k:173:PRO:O	2.45	0.44
6:6:177:LYS:HZ2	6:k:170:LYS:HA	1.82	0.44
7:7:76:THR:N	7:7:245:TYR:C	2.76	0.44
7:7:81:PHE:CE2	7:7:228:ALA:HB1	2.51	0.44
7:7:120:MET:HA	7:7:127:CYS:SG	2.57	0.44
7:7:125:ALA:O	7:7:126:ASP:C	2.60	0.44
7:7:135:GLY:HA2	7:7:138:CYS:SG	2.58	0.44
7:7:166:LYS:HD2	7:7:193:ASP:O	2.17	0.44
7:7:230:TYR:O	7:7:233:LYS:HB3	2.17	0.44
7:7:279:GLU:OE2	7:7:281:SER:HB3	2.17	0.44
7:7:282:PHE:N	6:k:145:ASP:O	2.38	0.44
1:8:47:ARG:CZ	1:8:218:GLY:HA3	2.48	0.44
2:9:46:SER:O	2:9:175:LEU:N	2.45	0.44
2:9:85:GLY:O	2:9:147:ILE:HG23	2.17	0.44
8:A:47:GLY:N	8:A:50:CYS:O	2.50	0.44
8:A:72:ILE:HG12	8:A:82:VAL:HB	1.98	0.44
8:A:133:TYR:O	14:G:126:TYR:HD1	2.01	0.44
10:C:5:ARG:NH2	14:G:10:LEU:HD13	2.32	0.44
10:C:38:ILE:HG12	10:C:162:ALA:CB	2.47	0.44
10:C:50:ARG:HD2	10:C:209:ASP:O	2.18	0.44
10:C:63:THR:O	10:C:67:TYR:OH	2.32	0.44
10:C:191:GLU:O	10:C:195:LYS:HG2	2.17	0.44
10:C:196:THR:HA	10:C:199:LYS:HB2	1.99	0.44
11:D:12:SER:H	11:D:16:HIS:H	1.65	0.44
12:E:214:GLU:H	12:E:214:GLU:CD	2.23	0.44
14:G:235:LEU:HA	14:G:238:GLU:HB3	2.00	0.44
15:H:96:PRO:HG3	16:I:111:GLU:CG	2.48	0.44
15:H:308:PHE:N	15:H:352:MET:O	2.39	0.44
16:I:116:ASP:C	16:I:138:LYS:NZ	2.72	0.44
18:K:292:VAL:O	18:K:296:LEU:N	2.49	0.44
18:K:297:ILE:HA	18:K:300:LEU:HB2	1.99	0.44
18:K:360:MET:HG2	18:K:402:ILE:HD12	1.99	0.44
19:L:191:ARG:O	19:L:194:ARG:N	2.50	0.44
19:L:200:PRO:HA	19:L:203:ASN:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:352:PRO:HD2	19:L:387:ASN:HA	2.00	0.44
20:M:199:LEU:HB2	20:M:200:PRO:HD3	1.99	0.44
20:M:245:LYS:HG3	20:M:279:PHE:HD2	1.83	0.44
20:M:268:ALA:O	20:M:272:GLU:HG3	2.17	0.44
20:M:386:PHE:HB2	20:M:391:LEU:HG	1.99	0.44
21:N:73:GLY:HA2	21:N:75:TYR:CZ	2.52	0.44
21:N:144:CYS:O	21:N:147:ALA:HB3	2.17	0.44
21:N:341:ALA:C	21:N:343:THR:H	2.25	0.44
21:N:424:LYS:O	21:N:427:ILE:HB	2.17	0.44
21:N:444:HIS:CE1	21:N:476:THR:O	2.71	0.44
21:N:568:VAL:HG12	21:N:572:LEU:HD11	1.99	0.44
21:N:635:GLN:HA	21:N:638:ILE:HB	1.99	0.44
21:N:649:VAL:HG12	21:N:651:PHE:HB3	1.99	0.44
22:O:41:LEU:HD23	22:O:47:LYS:HB2	1.98	0.44
22:O:43:GLU:OE1	22:O:62:TYR:HA	2.17	0.44
22:O:217:LEU:HA	22:O:220:SER:OG	2.18	0.44
22:O:230:PHE:O	22:O:258:LEU:HD13	2.17	0.44
22:O:327:LEU:CA	22:O:330:ARG:HH11	2.29	0.44
24:Q:84:TYR:HA	24:Q:87:GLN:HG2	1.98	0.44
24:Q:125:ALA:HB2	24:Q:130:ARG:NH2	2.33	0.44
24:Q:183:LYS:O	24:Q:187:LYS:HG2	2.18	0.44
25:R:67:CYS:SG	25:R:94:PHE:HE1	2.41	0.44
25:R:333:MET:HA	25:R:336:LYS:CB	2.46	0.44
25:R:373:PRO:C	25:R:375:LYS:HG3	2.43	0.44
25:R:405:LYS:O	25:R:408:ASP:HB3	2.16	0.44
26:S:185:PHE:HA	26:S:188:TYR:CD2	2.52	0.44
26:S:289:ALA:O	26:S:292:TYR:HB2	2.17	0.44
26:S:327:ILE:HD13	26:S:353:LYS:HA	1.99	0.44
27:T:115:SER:HB3	27:T:177:PHE:HB3	2.00	0.44
27:T:141:LEU:HA	27:T:144:TYR:HD2	1.80	0.44
27:T:200:LEU:HG	27:T:204:ASN:HB2	2.00	0.44
27:T:249:MET:HG3	27:T:256:LYS:HZ2	1.83	0.44
27:T:263:ALA:O	27:T:267:ALA:N	2.39	0.44
28:U:9:THR:N	28:U:46:ILE:O	2.33	0.44
28:U:263:LYS:C	28:U:265:LEU:N	2.74	0.44
30:W:95:GLN:O	30:W:99:LYS:HG3	2.17	0.44
30:W:157:PHE:O	30:W:161:VAL:N	2.46	0.44
30:W:178:PRO:HG2	30:W:179:ARG:NH1	2.33	0.44
31:X:14:VAL:HG21	31:X:62:ASP:CG	2.42	0.44
31:X:47:ASP:HB3	31:X:65:SER:OG	2.17	0.44
33:Z:123:ALA:O	33:Z:126:TYR:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:416:THR:HG23	33:Z:450:GLY:HA2	1.98	0.44
33:Z:544:THR:HG22	33:Z:548:ASP:OD2	2.17	0.44
8:a:87:ILE:HD12	8:a:90:ALA:HB3	1.99	0.44
8:a:94:ALA:O	8:a:98:LYS:HG3	2.18	0.44
10:c:15:PRO:HA	11:d:22:TYR:CD1	2.52	0.44
10:c:33:GLY:C	10:c:65:LYS:HZ1	2.17	0.44
10:c:50:ARG:HG3	10:c:211:LEU:C	2.41	0.44
11:d:67:ILE:HG23	11:d:90:ARG:N	2.33	0.44
11:d:155:ILE:HD11	12:e:83:ALA:HB2	1.99	0.44
12:e:24:VAL:O	12:e:28:LEU:N	2.38	0.44
12:e:46:VAL:HG23	12:e:153:TYR:HB3	1.99	0.44
12:e:205:LYS:NZ	12:e:211:LYS:CG	2.80	0.44
13:f:2:PHE:HD2	13:f:3:ARG:HG3	1.82	0.44
13:f:74:LEU:HA	13:f:132:LEU:HD23	1.98	0.44
13:f:144:LEU:C	13:f:145:LEU:HD12	2.41	0.44
13:f:227:GLY:N	13:f:230:VAL:HG22	2.33	0.44
3:h:27:PHE:CE2	3:h:167:LYS:HA	2.52	0.44
5:j:98:ARG:O	5:j:99:ARG:C	2.59	0.44
5:j:142:ALA:O	5:j:145:GLN:HB2	2.17	0.44
6:k:43:LEU:O	6:k:105:GLY:N	2.49	0.44
6:k:84:VAL:O	6:k:85:ARG:C	2.60	0.44
6:k:185:ASP:CG	6:k:187:ASP:H	2.26	0.44
7:l:256:THR:OG1	7:l:258:ASP:HB2	2.16	0.44
1:1:119:LYS:O	1:1:120:ARG:C	2.61	0.44
3:3:85:TYR:CZ	3:3:89:TYR:HB2	2.53	0.44
3:3:105:CYS:HA	3:3:112:LEU:HD12	2.00	0.44
4:4:30:THR:HG23	4:4:62:LYS:HZ2	1.81	0.44
4:4:112:LEU:O	4:4:115:HIS:HB3	2.18	0.44
4:4:162:ALA:HB1	4:4:190:ALA:HB1	1.98	0.44
4:4:175:LEU:HA	4:4:179:GLU:OE1	2.18	0.44
4:4:205:CYS:HA	4:4:214:GLU:O	2.18	0.44
5:5:2:SER:O	5:5:4:PRO:HD3	2.18	0.44
6:6:116:LEU:C	6:6:127:GLU:HG3	2.42	0.44
1:8:57:ARG:NH1	1:8:219:ASP:OD1	2.48	0.44
1:8:170:ASP:OD2	5:j:177:ARG:NH2	2.39	0.44
1:8:215:ILE:HB	4:i:196:LEU:HB3	1.98	0.44
2:9:60:LEU:HB2	2:9:70:ASN:HD22	1.82	0.44
2:9:76:ILE:HD13	2:9:86:ILE:HD12	1.99	0.44
2:9:187:LEU:HD21	4:i:165:ALA:HB1	1.98	0.44
10:C:191:GLU:HG3	10:C:195:LYS:HE2	1.99	0.44
11:D:41:CYS:SG	11:D:188:VAL:HG22	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:43:VAL:HG11	11:D:192:VAL:HA	2.00	0.44
11:D:68:ASP:N	11:D:71:VAL:O	2.30	0.44
12:E:21:LEU:O	12:E:24:VAL:HB	2.17	0.44
14:G:109:ILE:HG12	14:G:142:ASP:CG	2.43	0.44
15:H:169:GLU:C	15:H:174:VAL:HG22	2.43	0.44
15:H:216:ASP:HB3	15:H:220:LYS:NZ	2.33	0.44
17:J:87:LYS:HB2	17:J:93:LYS:HG2	1.99	0.44
17:J:318:PRO:N	17:J:319:PRO:HA	2.26	0.44
17:J:359:LYS:O	17:J:363:THR:HG23	2.18	0.44
18:K:142:HIS:CG	29:V:145:GLN:HE21	2.35	0.44
18:K:180:GLN:O	18:K:183:GLU:HB3	2.18	0.44
18:K:191:PRO:HA	18:K:194:GLN:C	2.42	0.44
18:K:265:ALA:HB1	18:K:311:ASN:CB	2.47	0.44
18:K:342:SER:CA	18:K:343:LEU:CB	2.96	0.44
19:L:86:LYS:C	19:L:90:LYS:HZ1	2.23	0.44
19:L:174:GLU:HG2	19:L:175:GLN:CD	2.42	0.44
19:L:271:LYS:NZ	19:L:319:GLY:HA3	2.32	0.44
20:M:80:ALA:HA	20:M:120:LYS:O	2.18	0.44
20:M:132:VAL:CG2	20:M:155:ILE:HB	2.47	0.44
20:M:221:TYR:CZ	20:M:348:GLU:HB3	2.53	0.44
21:N:50:TYR:HA	21:N:58:ARG:CB	2.45	0.44
21:N:65:ALA:HB1	21:N:69:TYR:CE2	2.52	0.44
21:N:95:SER:CB	26:S:219:LYS:HZ1	2.28	0.44
21:N:246:LYS:HA	21:N:249:ASN:HB2	1.99	0.44
21:N:346:ASN:O	21:N:347:SER:C	2.60	0.44
21:N:483:LEU:O	21:N:487:LEU:HG	2.18	0.44
21:N:603:PRO:HG3	21:N:637:ALA:HB2	1.99	0.44
21:N:740:TRP:CE3	29:V:24:LYS:NZ	2.54	0.44
21:N:919:THR:OG1	21:N:920:VAL:N	2.50	0.44
22:O:16:MET:HE3	22:O:73:ILE:HD11	2.00	0.44
22:O:176:SER:HB2	22:O:188:PHE:CE1	2.53	0.44
22:O:254:LEU:HD21	22:O:266:PHE:CD1	2.53	0.44
22:O:341:ILE:O	23:P:359:ARG:N	2.34	0.44
23:P:71:LYS:HD2	23:P:74:ASP:OD1	2.18	0.44
23:P:110:LEU:HD23	23:P:113:ASN:ND2	2.17	0.44
23:P:255:ALA:CA	23:P:258:LYS:HE2	2.47	0.44
23:P:260:VAL:HG12	23:P:264:ILE:HD11	1.99	0.44
23:P:276:LEU:O	23:P:279:ASP:N	2.51	0.44
23:P:295:SER:HA	23:P:298:SER:CB	2.41	0.44
23:P:329:PHE:CD2	23:P:337:HIS:HD2	2.35	0.44
23:P:409:SER:CB	23:P:412:LEU:HG	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:66:VAL:HA	24:Q:71:LYS:HB2	2.00	0.44
24:Q:275:ILE:HD11	24:Q:306:TYR:CD2	2.53	0.44
25:R:106:ASN:O	25:R:110:ILE:N	2.36	0.44
25:R:109:LYS:HB3	25:R:140:TYR:CD2	2.52	0.44
25:R:319:CYS:SG	25:R:322:LEU:HD12	2.57	0.44
25:R:345:TYR:HD2	25:R:347:THR:O	2.00	0.44
25:R:382:ASP:OD2	25:R:385:ASN:CA	2.63	0.44
26:S:170:TYR:CZ	26:S:171:TYR:CZ	3.05	0.44
26:S:309:PHE:O	26:S:312:GLN:HB2	2.17	0.44
26:S:430:GLY:O	26:S:432:ILE:N	2.50	0.44
27:T:55:LEU:HD11	27:T:88:TYR:CZ	2.52	0.44
28:U:15:LEU:HB3	29:V:212:MET:CE	2.33	0.44
30:W:38:GLN:HE21	30:W:42:ASN:CG	2.26	0.44
33:Z:475:GLN:HA	33:Z:493:LEU:HD21	1.99	0.44
33:Z:501:LYS:CD	33:Z:534:PHE:HA	2.40	0.44
8:a:128:TYR:CD1	8:a:128:TYR:N	2.84	0.44
8:a:209:HIS:HA	8:a:212:ASP:CB	2.45	0.44
9:b:64:VAL:N	9:b:210:GLU:OE2	2.38	0.44
10:c:36:ILE:HG12	10:c:164:SER:HB2	2.00	0.44
10:c:85:GLU:HA	10:c:88:ILE:HD12	2.00	0.44
11:d:117:GLN:HB3	11:d:152:PRO:O	2.17	0.44
12:e:38:ILE:HG23	12:e:183:LEU:HD11	2.00	0.44
12:e:90:GLU:OE2	7:l:140:LEU:HD11	2.18	0.44
14:g:36:THR:OG1	14:g:203:ALA:HB1	2.17	0.44
3:h:31:VAL:N	3:h:197:LEU:O	2.50	0.44
4:i:112:LEU:O	4:i:115:HIS:HB3	2.18	0.44
6:k:84:VAL:HG11	6:k:104:ILE:HD11	2.00	0.44
6:k:162:LYS:HA	6:k:195:PHE:CZ	2.53	0.44
6:k:185:ASP:O	6:k:188:GLY:N	2.45	0.44
1:1:93:TRP:HH2	13:f:90:GLN:HG3	1.83	0.44
1:1:179:TYR:HA	1:1:189:LYS:N	2.33	0.44
2:2:161:ARG:CG	2:2:171:SER:HB2	2.47	0.44
3:3:162:ARG:CZ	3:3:165:MET:HG2	2.48	0.44
3:3:214:GLN:N	3:3:214:GLN:OE1	2.50	0.44
4:4:66:ILE:HD12	4:4:70:ILE:HG22	1.99	0.44
6:6:51:GLY:O	6:6:55:GLN:HG2	2.18	0.44
6:6:129:PRO:HB3	6:6:148:TYR:OH	2.17	0.44
6:6:140:THR:HG23	6:6:168:LEU:HD21	2.00	0.44
7:7:127:CYS:O	7:7:131:GLU:CB	2.46	0.44
7:7:216:ASP:OD2	6:k:167:GLU:OE2	2.36	0.44
7:7:237:LEU:HD21	7:7:272:PHE:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:176:LYS:C	1:8:178:GLN:H	2.26	0.44
1:8:194:LEU:HD22	1:8:198:GLU:HG2	1.99	0.44
1:8:200:ILE:HD13	1:8:234:GLU:OE2	2.18	0.44
2:9:162:TYR:OH	2:9:164:ASN:HB3	2.17	0.44
2:9:220:ARG:HB3	3:h:44:TYR:CE1	2.52	0.44
2:9:264:GLN:NE2	3:h:55:ARG:H	2.15	0.44
8:A:94:ALA:O	8:A:98:LYS:HG3	2.18	0.44
8:A:130:GLN:HA	9:B:128:ARG:CG	2.41	0.44
8:A:131:ARG:HB2	8:A:134:MET:HB2	2.00	0.44
10:C:59:GLN:OE1	10:C:209:ASP:HA	2.17	0.44
12:E:153:TYR:HE1	12:E:223:THR:HA	1.82	0.44
13:F:15:PRO:HA	14:G:26:TYR:CE1	2.53	0.44
13:F:69:HIS:CD2	13:F:102:LYS:HB3	2.53	0.44
13:F:145:LEU:HA	13:F:155:GLU:HA	2.00	0.44
14:G:198:LYS:NZ	14:G:199:ILE:HG12	2.33	0.44
15:H:97:LEU:HD22	15:H:99:VAL:C	2.41	0.44
15:H:223:GLU:HB3	20:M:404:ARG:HH21	1.82	0.44
15:H:224:VAL:HG11	15:H:246:ILE:HB	2.00	0.44
15:H:254:THR:HB	15:H:417:ALA:N	2.33	0.44
16:I:104:LEU:HD22	16:I:150:HIS:HA	1.99	0.44
16:I:180:SER:O	16:I:184:ILE:HG23	2.18	0.44
16:I:248:VAL:HA	16:I:282:ASP:HB3	1.99	0.44
16:I:266:GLN:HA	16:I:269:LYS:CD	2.43	0.44
16:I:355:LEU:HD22	16:I:381:VAL:HG13	1.99	0.44
16:I:414:GLU:O	16:I:418:GLN:N	2.35	0.44
17:J:187:LEU:H	17:J:293:ALA:CA	2.26	0.44
17:J:250:ILE:HG23	17:J:251:ASP:N	2.32	0.44
18:K:73:ARG:O	18:K:76:LYS:HB3	2.18	0.44
18:K:121:ARG:O	18:K:146:LEU:N	2.33	0.44
18:K:347:ARG:NH2	24:Q:202:ARG:NH1	2.64	0.44
19:L:140:LEU:HD21	19:L:158:ILE:HG12	2.00	0.44
19:L:256:ILE:HD12	19:L:303:ARG:HD3	1.98	0.44
20:M:395:THR:O	20:M:398:ALA:HB3	2.18	0.44
20:M:411:LYS:O	20:M:415:PHE:HD2	2.00	0.44
21:N:174:LEU:CD2	21:N:182:ASN:HB3	2.46	0.44
21:N:441:VAL:HA	21:N:444:HIS:HB3	2.00	0.44
21:N:518:ALA:O	21:N:521:LEU:HB2	2.18	0.44
21:N:648:PRO:HA	21:N:653:ARG:HH22	1.83	0.44
21:N:717:LEU:HD21	21:N:730:VAL:HG22	1.99	0.44
22:O:47:LYS:NZ	22:O:48:PHE:HE1	2.16	0.44
22:O:215:TYR:CZ	22:O:219:ILE:HD11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:242:ILE:HB	22:O:248:TYR:CE1	2.52	0.44
22:O:313:ILE:O	22:O:316:ALA:HB3	2.17	0.44
22:O:369:ARG:NE	22:O:373:TRP:HE1	2.15	0.44
23:P:107:SER:C	23:P:108:LYS:NZ	2.73	0.44
23:P:158:ASP:O	23:P:161:CYS:N	2.51	0.44
23:P:184:MET:HE3	23:P:200:SER:HB3	1.98	0.44
23:P:294:GLU:O	23:P:297:GLU:N	2.51	0.44
24:Q:47:ASP:OD2	24:Q:54:GLN:CD	2.60	0.44
24:Q:137:LEU:CA	24:Q:140:LYS:HZ1	2.28	0.44
24:Q:158:ILE:O	24:Q:162:LEU:HG	2.18	0.44
24:Q:223:GLY:HA3	24:Q:239:PHE:CZ	2.52	0.44
24:Q:382:LEU:HD11	25:R:340:GLN:HG3	1.98	0.44
25:R:207:ARG:HB3	25:R:211:LYS:HZ2	1.81	0.44
25:R:319:CYS:HB2	25:R:322:LEU:CD1	2.45	0.44
25:R:325:HIS:ND1	25:R:326:ALA:O	2.50	0.44
25:R:335:ARG:NE	25:R:376:GLN:HB2	2.33	0.44
25:R:353:MET:O	25:R:357:PHE:CG	2.71	0.44
25:R:411:LEU:HA	25:R:414:LEU:HD12	2.00	0.44
26:S:156:VAL:HG13	26:S:188:TYR:CE1	2.52	0.44
26:S:190:SER:O	26:S:193:THR:HG23	2.17	0.44
28:U:6:GLU:HB3	28:U:46:ILE:HG13	1.98	0.44
28:U:138:VAL:C	28:U:139:ALA:O	2.61	0.44
28:U:265:LEU:HG	28:U:265:LEU:H	1.59	0.44
29:V:117:TRP:CZ3	29:V:119:SER:HA	2.52	0.44
29:V:129:PHE:C	29:V:131:GLN:N	2.74	0.44
30:W:132:LEU:HD11	30:W:157:PHE:HZ	1.82	0.44
30:W:145:GLY:HA3	30:W:149:GLN:HG2	1.98	0.44
33:Z:824:ASN:OD1	33:Z:825:ALA:N	2.50	0.44
33:Z:834:LEU:HD13	33:Z:855:LEU:HB2	2.00	0.44
8:a:206:ALA:O	8:a:210:MET:N	2.38	0.44
9:b:188:ALA:O	9:b:192:ALA:N	2.31	0.44
10:c:15:PRO:HD2	10:c:20:TYR:OH	2.16	0.44
10:c:24:TYR:O	10:c:27:GLU:HB3	2.17	0.44
10:c:50:ARG:HD2	10:c:209:ASP:O	2.18	0.44
10:c:117:ASP:O	10:c:120:GLN:HB3	2.17	0.44
10:c:124:GLN:HG3	11:d:127:ARG:HG3	2.00	0.44
10:c:142:ASP:OD1	10:c:143:ARG:N	2.51	0.44
10:c:180:TYR:HA	10:c:184:MET:SD	2.57	0.44
10:c:237:ASP:O	10:c:241:LYS:HG2	2.16	0.44
11:d:43:VAL:HG11	11:d:192:VAL:HA	2.00	0.44
11:d:96:HIS:HD2	11:d:108:TYR:CE2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:214:VAL:O	11:d:221:ILE:HA	2.17	0.44
13:f:66:CYS:SG	13:f:88:LEU:HD23	2.58	0.44
13:f:146:GLU:HG2	13:f:148:GLN:HE21	1.80	0.44
14:g:198:LYS:NZ	14:g:199:ILE:HG12	2.33	0.44
14:g:235:LEU:HA	14:g:238:GLU:OE1	2.17	0.44
3:h:23:MET:SD	3:h:174:ILE:HG23	2.58	0.44
3:h:60:ILE:HA	3:h:120:GLY:HA3	1.98	0.44
4:i:205:CYS:HA	4:i:214:GLU:O	2.18	0.44
7:l:156:LYS:O	7:l:159:SER:HB3	2.17	0.44
2:2:60:LEU:HB2	2:2:70:ASN:HD22	1.82	0.44
2:2:81:ASN:ND2	2:2:122:PRO:HD3	2.33	0.44
2:2:179:PHE:CE2	2:2:221:ASP:HB2	2.52	0.44
2:2:226:ARG:HG2	2:2:246:GLN:HG3	1.98	0.44
3:3:30:GLY:N	3:3:126:LYS:HD3	2.33	0.44
3:3:71:THR:HA	3:3:74:ILE:HD12	1.98	0.44
3:3:101:PHE:O	3:3:102:LYS:C	2.60	0.44
5:5:75:LYS:HG3	5:5:80:ARG:O	2.17	0.44
6:6:84:VAL:O	6:6:87:GLU:HG2	2.18	0.44
6:6:135:TYR:CD1	6:k:25:ILE:HD12	2.53	0.44
6:6:158:LEU:HB3	6:6:198:GLN:OE1	2.17	0.44
7:7:230:TYR:CD1	7:7:233:LYS:HD3	2.52	0.44
1:8:51:ASP:O	4:i:196:LEU:HD12	2.18	0.44
1:8:116:LEU:HD23	1:8:124:TYR:HD2	1.81	0.44
1:8:167:PRO:HG3	5:j:177:ARG:CG	2.38	0.44
1:8:179:TYR:HA	1:8:189:LYS:H	1.82	0.44
1:8:192:LYS:HE3	1:8:192:LYS:HB3	1.81	0.44
2:9:81:ASN:ND2	2:9:122:PRO:HD3	2.33	0.44
2:9:211:VAL:O	2:9:214:MET:HB2	2.17	0.44
9:B:181:ASP:OD1	9:B:182:GLU:HG3	2.17	0.44
11:D:92:GLU:O	11:D:95:SER:HB3	2.17	0.44
11:D:118:GLN:CG	12:E:83:ALA:HB1	2.47	0.44
11:D:174:PHE:HD2	11:D:175:LEU:HG	1.83	0.44
12:E:74:ILE:CG1	12:E:109:VAL:HG22	2.47	0.44
12:E:122:ARG:HG2	12:E:132:ARG:HD2	1.99	0.44
12:E:202:LYS:HD2	12:E:247:GLU:HG2	2.00	0.44
13:F:3:ARG:NH2	13:F:24:TYR:CE1	2.86	0.44
13:F:66:CYS:SG	13:F:88:LEU:HD23	2.58	0.44
13:F:74:LEU:HA	13:F:132:LEU:HD23	1.98	0.44
13:F:117:GLN:HB2	14:G:83:PRO:CB	2.47	0.44
13:F:227:GLY:N	13:F:230:VAL:HG22	2.33	0.44
15:H:55:ASP:HA	16:I:99:ILE:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:96:PRO:CG	16:I:111:GLU:HG3	2.47	0.44
15:H:157:VAL:HG21	15:H:168:ILE:HG21	1.98	0.44
15:H:178:ARG:HH22	15:H:289:ARG:HB3	1.82	0.44
15:H:191:ILE:HA	15:H:192:ASP:HB2	1.99	0.44
15:H:217:GLN:CD	15:H:377:PHE:HA	2.42	0.44
15:H:425:GLU:OE1	16:I:345:ASP:HB2	2.17	0.44
16:I:91:GLU:OE1	16:I:94:LYS:HD3	2.18	0.44
16:I:124:THR:OG1	16:I:126:PRO:HD2	2.18	0.44
16:I:335:ASP:O	16:I:338:LEU:HB3	2.17	0.44
17:J:76:ILE:HD11	17:J:87:LYS:HB3	1.99	0.44
17:J:79:VAL:HG12	17:J:80:SER:H	1.83	0.44
17:J:186:ILE:HA	17:J:293:ALA:HA	1.99	0.44
17:J:195:LYS:CB	17:J:253:ILE:HB	2.48	0.44
18:K:394:ALA:CB	18:K:402:ILE:HG12	2.41	0.44
19:L:369:LYS:HG2	19:L:409:HIS:HB3	2.00	0.44
21:N:123:PHE:HZ	21:N:161:TYR:CB	2.26	0.44
21:N:193:ALA:O	21:N:203:ARG:HD3	2.17	0.44
21:N:217:MET:HE2	21:N:217:MET:HB3	1.77	0.44
21:N:302:PHE:HE1	21:N:872:THR:N	2.16	0.44
21:N:332:VAL:C	21:N:334:VAL:H	2.26	0.44
21:N:572:LEU:HD23	21:N:572:LEU:HA	1.70	0.44
21:N:665:ILE:O	21:N:667:GLN:HG3	2.18	0.44
21:N:892:PRO:HA	21:N:906:ARG:CB	2.38	0.44
22:O:23:HIS:HB3	22:O:26:PHE:CB	2.47	0.44
22:O:41:LEU:N	22:O:52:ALA:HB3	2.32	0.44
22:O:71:ASP:OD2	30:W:23:ARG:HB2	2.18	0.44
22:O:301:PHE:HB2	22:O:305:ILE:HG23	2.00	0.44
22:O:371:VAL:C	22:O:374:ASN:HB3	2.43	0.44
23:P:42:LEU:HD13	23:P:59:LEU:HB2	1.99	0.44
23:P:162:GLU:HB3	23:P:166:GLU:HG3	2.00	0.44
23:P:266:TYR:HA	23:P:296:GLN:HE22	1.82	0.44
24:Q:41:ALA:HB1	24:Q:51:ARG:HG2	2.00	0.44
24:Q:102:GLU:O	24:Q:105:GLU:HB2	2.18	0.44
24:Q:392:GLN:CG	25:R:349:SER:H	2.29	0.44
25:R:149:ASN:HA	25:R:152:LYS:NZ	2.33	0.44
25:R:154:LEU:HD11	25:R:170:VAL:HG22	1.99	0.44
25:R:262:GLU:O	25:R:266:LEU:HG	2.17	0.44
25:R:329:PHE:O	25:R:330:VAL:C	2.61	0.44
25:R:337:VAL:O	25:R:341:LEU:HG	2.18	0.44
26:S:370:LEU:O	26:S:373:LYS:HB3	2.18	0.44
27:T:190:ALA:HB1	27:T:226:TRP:HH2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:57:GLU:O	28:U:66:TRP:HB2	2.17	0.44
29:V:48:GLU:HG3	29:V:110:SER:C	2.43	0.44
29:V:58:VAL:N	29:V:62:THR:HB	2.32	0.44
30:W:68:GLU:HG3	30:W:70:GLY:H	1.82	0.44
30:W:147:ILE:HB	30:W:148:GLU:O	2.18	0.44
33:Z:161:ILE:HG23	33:Z:164:VAL:HB	1.98	0.44
33:Z:428:TRP:CH2	33:Z:910:PRO:HD3	2.53	0.44
33:Z:546:ILE:O	33:Z:550:PHE:N	2.47	0.44
8:a:122:ALA:HB1	8:a:161:GLY:O	2.17	0.44
8:a:126:GLN:HA	8:a:129:THR:HB	2.00	0.44
10:c:106:ILE:HD13	10:c:111:LEU:HB2	1.99	0.44
11:d:12:SER:H	11:d:16:HIS:H	1.65	0.44
11:d:174:PHE:HD2	11:d:175:LEU:HG	1.83	0.44
12:e:51:GLU:CG	12:e:53:ARG:HB2	2.48	0.44
12:e:134:MET:HE1	12:e:138:PHE:CE2	2.53	0.44
12:e:202:LYS:HD2	12:e:247:GLU:HG2	2.00	0.44
13:f:144:LEU:HB3	13:f:156:LEU:O	2.17	0.44
14:g:40:ILE:N	14:g:47:VAL:O	2.41	0.44
14:g:44:ASP:OD1	14:g:45:GLY:N	2.51	0.44
3:h:20:THR:O	3:h:148:SER:N	2.51	0.44
3:h:41:THR:OG1	3:h:44:TYR:HD2	2.01	0.44
3:h:94:THR:HB	3:h:128:GLU:OE1	2.17	0.44
3:h:170:THR:HG22	3:h:174:ILE:HD12	2.00	0.44
5:j:45:HIS:HB2	5:j:50:PHE:CD1	2.53	0.44
5:j:46:TYR:O	5:j:49:VAL:N	2.50	0.44
5:j:74:TYR:O	5:j:78:GLU:HG2	2.18	0.44
5:j:113:ASN:N	5:j:118:LYS:O	2.39	0.44
6:k:41:HIS:HA	6:k:188:GLY:HA2	2.00	0.44
6:k:51:GLY:CA	7:l:166:LYS:HZ2	2.31	0.44
6:k:80:VAL:O	6:k:84:VAL:N	2.39	0.44
6:k:91:SER:C	6:k:94:SER:H	2.25	0.44
7:l:76:THR:N	7:l:245:TYR:C	2.76	0.44
7:l:135:GLY:HA2	7:l:138:CYS:SG	2.58	0.44
7:l:138:CYS:O	7:l:142:GLU:N	2.28	0.44
1:1:110:ARG:O	1:1:114:HIS:CE1	2.71	0.44
1:1:177:ASN:CG	5:5:172:LEU:HB3	2.43	0.44
2:2:89:ASP:OD1	2:2:90:ILE:N	2.50	0.44
3:3:23:MET:SD	3:3:174:ILE:HG23	2.58	0.44
3:3:69:ALA:HB2	4:4:147:SER:N	2.32	0.44
6:6:41:HIS:HA	6:6:188:GLY:HA2	2.00	0.44
6:6:84:VAL:O	6:6:85:ARG:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:162:LYS:HD2	6:6:198:GLN:HB3	2.00	0.44
6:6:185:ASP:CG	6:6:187:ASP:H	2.26	0.44
7:7:241:HIS:HA	5:j:204:GLN:O	2.17	0.44
1:8:223:ILE:N	1:8:234:GLU:O	2.35	0.44
2:9:226:ARG:HG2	2:9:246:GLN:HG3	1.99	0.44
8:A:126:GLN:HA	8:A:129:THR:HB	2.00	0.44
8:A:133:TYR:HB3	9:B:5:TYR:HD2	1.82	0.44
8:A:158:ASP:OD1	8:A:161:GLY:N	2.51	0.44
9:B:43:VAL:CG2	9:B:145:PHE:HB3	2.44	0.44
9:B:44:VAL:HG23	9:B:213:ILE:HG22	2.00	0.44
9:B:118:MET:CE	9:B:130:PHE:HB2	2.48	0.44
9:B:124:SER:HB2	9:B:127:VAL:CG2	2.48	0.44
9:B:140:ASP:CG	9:B:143:ASN:HB2	2.42	0.44
10:C:24:TYR:O	10:C:27:GLU:HB3	2.17	0.44
10:C:83:ASP:HB2	10:C:133:VAL:HG21	1.99	0.44
12:E:134:MET:HE1	12:E:138:PHE:CE2	2.53	0.44
14:G:36:THR:OG1	14:G:203:ALA:HB1	2.17	0.44
14:G:126:TYR:CD2	14:G:129:VAL:CG1	3.01	0.44
14:G:189:ALA:O	14:G:193:VAL:HG23	2.18	0.44
15:H:74:THR:HG22	15:H:170:GLU:OE2	2.18	0.44
15:H:202:GLU:HB2	15:H:270:THR:HG23	2.00	0.44
15:H:341:ASP:OD1	15:H:370:ARG:HD2	2.17	0.44
16:I:222:TYR:CG	16:I:223:GLY:N	2.86	0.44
16:I:365:HIS:CD2	16:I:393:GLN:HE21	2.35	0.44
16:I:394:ALA:HB1	16:I:423:VAL:CG1	2.46	0.44
17:J:78:ILE:HD12	17:J:104:VAL:HB	1.99	0.44
17:J:170:HIS:ND1	17:J:173:LEU:HG	2.32	0.44
17:J:332:SER:HB2	17:J:337:LEU:HD11	2.00	0.44
17:J:382:PHE:O	17:J:386:VAL:HG23	2.18	0.44
18:K:178:ASP:N	18:K:181:LYS:HE2	2.33	0.44
18:K:239:GLY:CA	18:K:276:SER:HB2	2.46	0.44
19:L:70:TYR:HD1	20:M:12:LEU:HD11	1.82	0.44
19:L:103:GLN:HB3	19:L:147:THR:CG2	2.48	0.44
19:L:117:TYR:CE2	19:L:131:VAL:HG12	2.53	0.44
19:L:303:ARG:O	19:L:307:GLU:HG3	2.17	0.44
20:M:121:THR:H	20:M:125:GLN:H	1.66	0.44
20:M:242:THR:HB	20:M:276:THR:CB	2.48	0.44
20:M:291:PHE:CD2	20:M:292:ASP:HB3	2.53	0.44
20:M:398:ALA:HB2	20:M:415:PHE:HA	2.00	0.44
21:N:8:PRO:HB3	27:T:84:GLN:HA	1.99	0.44
21:N:59:GLU:HA	21:N:62:ALA:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:481:ALA:C	21:N:483:LEU:H	2.25	0.44
21:N:599:TYR:CD1	21:N:599:TYR:N	2.86	0.44
21:N:762:ARG:C	21:N:764:SER:H	2.24	0.44
22:O:42:SER:OG	22:O:50:ASP:OD2	2.31	0.44
22:O:68:LYS:HD2	22:O:72:LYS:HB2	1.99	0.44
22:O:81:TYR:O	22:O:83:LEU:N	2.50	0.44
23:P:70:ASN:ND2	23:P:75:LEU:HB2	2.33	0.44
23:P:123:ARG:HD2	23:P:127:GLU:OE1	2.18	0.44
23:P:214:GLU:O	23:P:218:LEU:HG	2.18	0.44
23:P:297:GLU:HA	23:P:300:VAL:HB	1.99	0.44
23:P:303:PHE:C	23:P:348:HIS:HE2	2.26	0.44
23:P:327:LEU:C	23:P:329:PHE:H	2.26	0.44
24:Q:27:TYR:CE1	24:Q:61:LEU:HB2	2.53	0.44
24:Q:311:LEU:HD21	24:Q:368:LEU:HB2	1.98	0.44
24:Q:358:GLU:HB3	24:Q:361:HIS:NE2	2.33	0.44
25:R:52:ALA:O	25:R:55:LYS:HB2	2.17	0.44
25:R:119:LYS:HA	25:R:122:GLU:CB	2.44	0.44
25:R:230:LEU:HA	25:R:233:ASP:OD2	2.18	0.44
25:R:254:SER:OG	25:R:255:VAL:N	2.51	0.44
25:R:331:ARG:HH12	25:R:370:LYS:CD	2.29	0.44
26:S:383:LEU:H	26:S:383:LEU:HG	1.63	0.44
26:S:386:ASN:HA	26:S:389:LYS:HE2	2.00	0.44
26:S:434:ALA:CB	26:S:445:THR:HA	2.48	0.44
27:T:221:ALA:HB1	27:T:228:ILE:HD11	1.99	0.44
27:T:245:TYR:CG	27:T:246:GLU:N	2.75	0.44
27:T:266:TYR:C	27:T:269:SER:H	2.26	0.44
29:V:26:THR:HB	29:V:28:TYR:CZ	2.52	0.44
29:V:37:MET:CB	29:V:108:TYR:HE2	2.27	0.44
29:V:137:VAL:HG12	29:V:199:LEU:HD12	2.00	0.44
29:V:241:THR:HG23	29:V:297:THR:CB	2.46	0.44
30:W:6:THR:HG22	30:W:7:VAL:N	2.33	0.44
30:W:26:PHE:O	30:W:30:ILE:HG13	2.18	0.44
31:X:38:ASN:CG	31:X:39:GLU:H	2.22	0.44
31:X:78:ILE:HG13	31:X:115:SER:HB3	1.99	0.44
31:X:127:GLY:O	31:X:130:ASN:N	2.51	0.44
33:Z:737:ALA:H	33:Z:771:HIS:HE2	1.64	0.44
33:Z:839:SER:CB	33:Z:845:LEU:HB2	2.48	0.44
9:b:94:HIS:CD2	9:b:98:LYS:HD3	2.52	0.44
10:c:38:ILE:HG12	10:c:162:ALA:CB	2.47	0.44
12:e:214:GLU:H	12:e:214:GLU:CD	2.23	0.44
14:g:55:THR:H	14:g:59:LEU:CD2	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:243:ALA:O	14:g:247:ILE:N	2.42	0.44
4:i:121:GLY:HA3	4:i:145:HIS:ND1	2.31	0.44
5:j:29:LEU:HB2	5:j:40:PHE:CB	2.48	0.44
6:k:49:GLU:HG3	7:l:166:LYS:HZ1	1.82	0.44
6:k:51:GLY:O	6:k:55:GLN:HG2	2.18	0.44
6:k:162:LYS:HZ1	6:k:197:ALA:HA	1.83	0.44
7:l:87:ILE:HD11	7:l:186:THR:N	2.33	0.44
1:1:50:THR:N	1:1:53:SER:O	2.34	0.44
1:1:178:GLN:HA	4:4:238:THR:HG22	1.98	0.44
3:3:34:GLY:HA2	3:3:53:LEU:HD11	1.99	0.44
3:3:67:SER:O	3:3:70:ASP:HB2	2.18	0.44
3:3:156:TYR:CE1	3:h:159:LYS:HG3	2.53	0.44
4:4:189:GLN:HB3	4:4:193:TRP:CD1	2.53	0.44
5:5:15:MET:HE1	5:5:166:THR:HG22	2.00	0.44
5:5:73:LEU:CG	10:C:96:GLN:HG3	2.47	0.44
6:6:29:LYS:HE2	6:6:32:ASP:HA	1.99	0.44
6:6:41:HIS:CD2	6:6:107:TYR:HB3	2.53	0.44
7:7:158:LEU:HA	7:7:161:LEU:HB3	2.00	0.44
1:8:35:ALA:HB1	1:8:139:GLY:C	2.43	0.44
1:8:61:LYS:HZ3	1:8:74:ASN:CG	2.25	0.44
1:8:119:LYS:CB	1:8:123:PRO:HA	2.48	0.44
1:8:215:ILE:HG12	4:i:53:PRO:O	2.18	0.44
2:9:37:PRO:HD3	2:9:144:TRP:CZ2	2.53	0.44
2:9:42:THR:CG2	2:9:58:ASP:CG	2.91	0.44
2:9:55:ILE:O	2:9:230:LEU:HG	2.18	0.44
2:9:127:GLU:HG2	13:F:100:ASN:HB2	2.00	0.44
8:A:131:ARG:HA	8:A:131:ARG:HD2	1.76	0.44
9:B:48:GLU:HG3	9:B:209:ILE:HD13	2.00	0.44
10:C:74:ALA:O	10:C:138:ALA:HB3	2.18	0.44
11:D:76:SER:O	11:D:131:VAL:HA	2.18	0.44
12:E:70:ILE:HA	12:E:93:ARG:HG2	2.00	0.44
12:E:85:ALA:O	12:E:86:ARG:C	2.60	0.44
12:E:90:GLU:O	12:E:94:THR:N	2.39	0.44
13:F:96:SER:HA	13:F:101:ARG:N	2.32	0.44
13:F:130:VAL:C	13:F:149:PRO:HG3	2.43	0.44
15:H:251:PRO:O	15:H:256:LYS:HE3	2.17	0.44
16:I:185:GLY:HA3	16:I:361:ILE:HG12	2.00	0.44
17:J:61:GLU:O	17:J:65:LEU:HG	2.17	0.44
17:J:250:ILE:HD11	17:J:300:LEU:HD21	1.99	0.44
18:K:59:GLU:O	18:K:62:THR:HB	2.18	0.44
18:K:76:LYS:HD3	27:T:272:ASN:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:112:SER:O	18:K:115:GLY:N	2.42	0.44
19:L:117:TYR:HE2	19:L:131:VAL:HG12	1.83	0.44
19:L:290:ARG:HG2	19:L:301:ILE:CG2	2.48	0.44
19:L:377:GLU:CD	19:L:381:LYS:HE3	2.43	0.44
20:M:77:TYR:CD1	20:M:147:GLY:HA2	2.52	0.44
20:M:224:PRO:HB3	20:M:228:LYS:HD3	2.00	0.44
20:M:355:ASP:HA	20:M:358:ALA:CB	2.48	0.44
21:N:202:PHE:O	21:N:206:ILE:HG12	2.17	0.44
21:N:214:LEU:HB3	21:N:220:CYS:CB	2.48	0.44
21:N:402:GLY:HA2	21:N:405:LEU:CD1	2.48	0.44
21:N:496:GLU:CA	21:N:499:HIS:HD1	2.31	0.44
21:N:638:ILE:HD11	21:N:663:ILE:HG21	1.99	0.44
21:N:718:GLU:OE1	21:N:725:LEU:HG	2.18	0.44
22:O:40:GLN:O	22:O:56:PRO:HB3	2.18	0.44
22:O:190:TYR:CZ	22:O:194:LEU:HD21	2.53	0.44
22:O:208:ALA:O	22:O:212:GLN:HB3	2.17	0.44
22:O:321:LYS:O	22:O:325:GLU:HG3	2.18	0.44
23:P:70:ASN:HD21	23:P:75:LEU:HB2	1.82	0.44
23:P:235:LEU:H	23:P:271:SER:HB3	1.83	0.44
23:P:409:SER:HA	28:U:268:LYS:CE	2.48	0.44
24:Q:27:TYR:CD1	24:Q:61:LEU:HD22	2.52	0.44
24:Q:27:TYR:CE1	24:Q:57:SER:HB2	2.53	0.44
24:Q:86:MET:SD	24:Q:90:LYS:HA	2.58	0.44
24:Q:318:LEU:HA	24:Q:325:LEU:HD21	2.00	0.44
24:Q:427:PHE:CD1	25:R:417:TYR:HA	2.53	0.44
25:R:176:ARG:CG	25:R:243:LEU:HD11	2.48	0.44
27:T:18:GLY:HA2	27:T:20:TYR:CE2	2.52	0.44
27:T:155:GLY:HA2	27:T:157:TYR:CE1	2.53	0.44
27:T:216:GLU:HA	27:T:219:LYS:HZ1	1.83	0.44
28:U:11:ALA:HB3	28:U:14:VAL:HG23	2.00	0.44
28:U:189:ARG:O	28:U:192:ASN:HB2	2.18	0.44
28:U:275:VAL:HA	28:U:278:ILE:CG1	2.48	0.44
28:U:275:VAL:HA	28:U:278:ILE:HG13	2.00	0.44
29:V:264:GLU:HG2	29:V:276:PRO:HA	2.00	0.44
29:V:278:LYS:C	29:V:280:LEU:N	2.75	0.44
30:W:6:THR:HG23	30:W:109:ARG:HG2	1.98	0.44
30:W:139:VAL:HG11	30:W:157:PHE:CE2	2.52	0.44
30:W:164:PRO:HD2	30:W:168:THR:CG2	2.47	0.44
31:X:48:PHE:HD2	31:X:66:LEU:HD23	1.83	0.44
33:Z:124:MET:HE3	33:Z:153:TYR:HA	2.00	0.44
33:Z:287:ARG:H	33:Z:872:VAL:HG12	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:417:SER:HA	33:Z:420:ALA:HB3	2.00	0.44
8:a:158:ASP:OD1	8:a:161:GLY:N	2.51	0.44
9:b:44:VAL:HG23	9:b:213:ILE:HG22	2.00	0.44
10:c:191:GLU:HG3	10:c:195:LYS:HE2	1.99	0.44
10:c:201:THR:OG1	10:c:206:LEU:HD13	2.18	0.44
12:e:202:LYS:HG3	12:e:247:GLU:OE2	2.18	0.44
14:g:95:GLU:HA	14:g:98:SER:HB3	2.00	0.44
14:g:175:GLU:O	14:g:178:LYS:HB2	2.18	0.44
14:g:201:TYR:HE2	14:g:243:ALA:HB3	1.83	0.44
3:h:105:CYS:HA	3:h:112:LEU:HD12	2.00	0.44
6:k:14:ILE:HD13	6:k:158:LEU:HD21	1.99	0.44
2:2:48:LYS:HE3	2:2:160:LEU:HB3	2.00	0.43
2:2:85:GLY:O	2:2:147:ILE:HG23	2.17	0.43
2:2:115:ASP:OD1	2:2:115:ASP:N	2.48	0.43
2:2:162:TYR:OH	2:2:164:ASN:HB3	2.17	0.43
2:2:262:GLY:O	2:2:264:GLN:N	2.51	0.43
3:3:102:LYS:O	3:3:106:TYR:N	2.37	0.43
3:3:170:THR:HG22	3:3:174:ILE:HD12	2.00	0.43
3:3:180:GLN:NE2	3:h:158:ASP:HB3	2.33	0.43
4:4:104:ARG:HH22	8:A:148:GLU:CD	2.26	0.43
5:5:109:VAL:HB	5:5:122:ALA:HB3	2.00	0.43
6:6:35:THR:HG1	6:6:44:MET:C	2.24	0.43
6:6:109:LYS:NZ	6:6:186:LYS:HA	2.33	0.43
6:6:148:TYR:HA	6:6:152:MET:SD	2.58	0.43
7:7:96:THR:HA	7:7:102:ALA:N	2.23	0.43
1:8:110:ARG:O	1:8:114:HIS:CE1	2.71	0.43
2:9:48:LYS:HE3	2:9:160:LEU:HB3	2.00	0.43
2:9:96:ILE:O	2:9:100:LEU:HG	2.17	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	2.43	0.43
8:A:205:PHE:O	8:A:209:HIS:HD2	2.02	0.43
8:A:209:HIS:HA	8:A:212:ASP:OD2	2.18	0.43
8:A:234:PHE:HD1	8:A:235:THR:O	2.01	0.43
9:B:37:ILE:HG23	9:B:161:ALA:HB2	1.99	0.43
9:B:97:TYR:CG	9:B:105:PRO:HB3	2.53	0.43
10:C:83:ASP:HB2	10:C:133:VAL:CG2	2.47	0.43
10:C:201:THR:OG1	10:C:206:LEU:HD13	2.18	0.43
11:D:70:HIS:CD2	11:D:71:VAL:HG23	2.54	0.43
12:E:38:ILE:HG23	12:E:183:LEU:HD11	2.00	0.43
12:E:46:VAL:HG23	12:E:153:TYR:HB3	1.99	0.43
13:F:72:LEU:HB2	13:F:134:ILE:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:94:TYR:CE1	13:F:98:VAL:HG21	2.53	0.43
13:F:110:HIS:HB3	14:G:86:ARG:NH2	2.30	0.43
13:F:226:ASP:N	13:F:229:ALA:HB3	2.33	0.43
14:G:27:ALA:HB2	14:G:131:PRO:HG2	1.99	0.43
14:G:55:THR:H	14:G:59:LEU:CD2	2.30	0.43
15:H:264:ALA:CB	15:H:271:PHE:HB2	2.48	0.43
15:H:396:MET:SD	15:H:424:THR:HA	2.58	0.43
16:I:106:ILE:HG13	17:J:95:ILE:HG22	2.00	0.43
16:I:376:ASN:O	16:I:380:LEU:HG	2.18	0.43
17:J:98:VAL:HA	17:J:122:LEU:HB2	1.99	0.43
17:J:272:MET:SD	17:J:275:LEU:HD12	2.57	0.43
18:K:172:ALA:HA	18:K:181:LYS:NZ	2.32	0.43
18:K:188:VAL:C	18:K:191:PRO:HD2	2.43	0.43
18:K:295:ILE:O	18:K:298:GLU:HB3	2.18	0.43
18:K:329:LEU:HD22	18:K:337:LYS:HE2	1.98	0.43
18:K:342:SER:CA	18:K:343:LEU:HB3	2.47	0.43
19:L:225:GLY:C	19:L:227:GLY:H	2.25	0.43
19:L:402:ALA:HA	19:L:414:ASP:OD2	2.17	0.43
21:N:70:TYR:HE2	26:S:219:LYS:HA	1.81	0.43
21:N:112:GLU:HA	21:N:115:LYS:HE2	1.99	0.43
21:N:244:LYS:O	21:N:247:GLU:HB2	2.18	0.43
21:N:302:PHE:CZ	21:N:712:ASN:HB3	2.53	0.43
21:N:338:PHE:HD2	21:N:704:GLY:C	2.26	0.43
21:N:761:ILE:HG22	21:N:762:ARG:N	2.24	0.43
22:O:40:GLN:HA	22:O:56:PRO:HA	1.98	0.43
22:O:188:PHE:O	22:O:192:SER:N	2.38	0.43
22:O:243:VAL:CG1	22:O:248:TYR:HB3	2.42	0.43
22:O:250:TRP:HH2	22:O:271:LYS:CB	2.30	0.43
22:O:374:ASN:ND2	28:U:197:LEU:HB2	2.31	0.43
23:P:66:LEU:O	23:P:70:ASN:N	2.33	0.43
23:P:281:ILE:HG22	23:P:282:HIS:N	2.32	0.43
23:P:325:ASP:O	23:P:337:HIS:CE1	2.71	0.43
23:P:410:GLN:HB3	23:P:414:GLU:OE1	2.18	0.43
24:Q:58:ILE:O	24:Q:62:GLY:HA3	2.18	0.43
24:Q:99:THR:O	24:Q:102:GLU:HB2	2.17	0.43
24:Q:181:GLU:HA	24:Q:184:VAL:HB	1.99	0.43
24:Q:221:MET:HA	24:Q:224:ILE:HD12	2.00	0.43
24:Q:302:VAL:HG13	24:Q:335:PHE:CE1	2.53	0.43
24:Q:305:ALA:HA	24:Q:308:ASN:ND2	2.33	0.43
24:Q:389:VAL:HB	25:R:346:LYS:N	2.32	0.43
24:Q:415:LEU:HD11	29:V:261:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:50:VAL:O	25:R:53:LYS:N	2.51	0.43
25:R:400:TYR:C	26:S:452:TYR:HE2	2.26	0.43
26:S:42:SER:CB	26:S:147:TRP:CE3	3.01	0.43
26:S:145:PHE:HB2	26:S:147:TRP:CB	2.43	0.43
26:S:271:ARG:O	26:S:274:PHE:HB3	2.18	0.43
26:S:379:LEU:O	26:S:381:VAL:N	2.48	0.43
26:S:401:LYS:HB3	26:S:402:ILE:O	2.18	0.43
26:S:411:LEU:HB3	26:S:415:SER:O	2.18	0.43
26:S:428:ARG:HD2	27:T:192:ASN:HD21	1.83	0.43
27:T:25:LYS:O	27:T:28:PRO:HD2	2.17	0.43
27:T:147:LYS:O	27:T:151:TRP:HD1	2.01	0.43
28:U:30:ASN:ND2	28:U:31:LYS:NZ	2.65	0.43
28:U:86:LYS:HA	28:U:88:LYS:HZ3	1.83	0.43
29:V:29:ILE:H	29:V:203:TYR:CA	2.16	0.43
29:V:52:LEU:HD22	29:V:69:PHE:CE2	2.53	0.43
29:V:289:GLU:O	29:V:290:ASN:C	2.61	0.43
32:Y:84:TYR:O	32:Y:87:GLU:HB2	2.18	0.43
33:Z:246:CYS:SG	33:Z:272:TYR:OH	2.62	0.43
33:Z:366:LYS:HD3	33:Z:859:LYS:HG3	2.00	0.43
33:Z:413:ASP:OD1	33:Z:446:GLU:HG2	2.17	0.43
33:Z:445:PRO:CB	33:Z:485:ILE:HG13	2.47	0.43
33:Z:506:LEU:HD12	33:Z:510:LEU:HB2	2.01	0.43
33:Z:804:ASP:HB3	33:Z:807:VAL:CG2	2.48	0.43
33:Z:804:ASP:OD1	33:Z:805:LEU:N	2.50	0.43
8:a:47:GLY:N	8:a:50:CYS:O	2.50	0.43
8:a:128:TYR:HA	8:a:131:ARG:HB2	1.99	0.43
9:b:101:TYR:O	9:b:103:GLU:HG2	2.18	0.43
9:b:218:ASN:HB3	9:b:220:ASP:OD1	2.18	0.43
10:c:120:GLN:O	10:c:123:THR:HB	2.18	0.43
11:d:214:VAL:N	11:d:222:VAL:O	2.42	0.43
13:f:3:ARG:NH2	13:f:24:TYR:CE1	2.86	0.43
13:f:6:TYR:CD1	13:f:15:PRO:HD3	2.53	0.43
13:f:69:HIS:CD2	13:f:102:LYS:HB3	2.53	0.43
13:f:72:LEU:HB2	13:f:134:ILE:HG13	2.00	0.43
13:f:116:ALA:O	13:f:119:ASN:HB2	2.18	0.43
13:f:218:LYS:HG2	13:f:219:ASP:OD1	2.18	0.43
14:g:80:GLY:CA	14:g:134:VAL:HG12	2.48	0.43
14:g:109:ILE:HG12	14:g:142:ASP:CG	2.43	0.43
3:h:23:MET:HA	3:h:145:ILE:HA	2.00	0.43
3:h:31:VAL:HG13	3:h:197:LEU:HB2	1.99	0.43
5:j:15:MET:HE1	5:j:166:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:192:LYS:HE3	1:1:192:LYS:HB3	1.81	0.43
1:1:225:ILE:HD13	1:1:232:ARG:HE	1.83	0.43
3:3:139:HIS:CE1	2:9:94:GLN:NE2	2.86	0.43
5:5:11:ILE:HG22	5:5:140:GLY:C	2.43	0.43
5:5:52:GLY:N	5:5:108:VAL:O	2.47	0.43
5:5:63:LEU:HD21	5:5:103:TYR:CZ	2.54	0.43
5:5:74:TYR:O	5:5:78:GLU:HG2	2.18	0.43
5:5:85:GLU:HG3	5:5:120:PHE:CE1	2.53	0.43
5:5:102:PRO:HB2	5:5:126:LEU:HD13	2.00	0.43
5:5:164:PHE:HB2	5:5:189:ILE:CD1	2.48	0.43
7:7:94:ARG:O	7:7:108:LYS:HE3	2.18	0.43
7:7:216:ASP:HB2	6:k:167:GLU:OE1	2.19	0.43
1:8:110:ARG:HD2	12:E:101:LEU:O	2.18	0.43
1:8:179:TYR:HA	1:8:189:LYS:N	2.33	0.43
1:8:213:ARG:HA	1:8:213:ARG:HD3	1.81	0.43
2:9:107:ASN:HB2	2:9:120:LEU:HD21	2.00	0.43
8:A:54:ILE:CD1	8:A:225:VAL:HG13	2.48	0.43
9:B:86:VAL:HA	9:B:89:SER:HB2	1.99	0.43
10:C:16:GLU:OE1	10:C:16:GLU:N	2.35	0.43
10:C:40:ALA:HB1	10:C:184:MET:O	2.18	0.43
12:E:21:LEU:HD23	12:E:21:LEU:HA	1.78	0.43
12:E:202:LYS:HG3	12:E:247:GLU:OE2	2.18	0.43
13:F:2:PHE:HD2	13:F:3:ARG:HG3	1.82	0.43
13:F:93:ASN:O	13:F:97:LEU:HG	2.18	0.43
13:F:117:GLN:HG2	14:G:87:HIS:CB	2.47	0.43
13:F:121:GLN:NE2	14:G:123:HIS:CD2	2.86	0.43
15:H:72:SER:O	15:H:77:ALA:HB3	2.18	0.43
15:H:184:GLU:HB2	15:H:185:LEU:C	2.43	0.43
15:H:344:ASP:O	15:H:346:ARG:HG3	2.18	0.43
15:H:403:ARG:O	15:H:406:LEU:HB2	2.18	0.43
16:I:353:PRO:O	16:I:358:LYS:HB2	2.18	0.43
17:J:27:ILE:HD13	18:K:52:LYS:HE2	2.00	0.43
17:J:161:LYS:HA	17:J:165:GLU:HB2	2.00	0.43
17:J:345:LYS:HA	17:J:348:GLU:OE1	2.18	0.43
18:K:69:LYS:O	18:K:72:GLN:HB3	2.19	0.43
18:K:71:GLU:O	18:K:74:HIS:HB3	2.18	0.43
18:K:122:ILE:CA	18:K:146:LEU:HB3	2.35	0.43
18:K:158:ILE:HD12	18:K:249:GLU:CG	2.48	0.43
19:L:92:GLU:C	19:L:96:LYS:NZ	2.74	0.43
19:L:107:GLU:HA	19:L:144:VAL:O	2.18	0.43
19:L:145:ARG:CG	19:L:159:LEU:HB2	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:187:ASP:HA	20:M:190:ILE:HD12	2.00	0.43
20:M:260:ALA:H	20:M:304:THR:HG22	1.83	0.43
20:M:274:ALA:C	20:M:320:ARG:HH21	2.19	0.43
20:M:334:ASP:H	20:M:337:LEU:HB2	1.82	0.43
20:M:337:LEU:O	20:M:338:LEU:HD23	2.18	0.43
21:N:17:GLN:O	21:N:20:VAL:N	2.51	0.43
21:N:34:GLN:HG2	21:N:35:LEU:HD23	2.00	0.43
21:N:346:ASN:O	21:N:349:ILE:N	2.52	0.43
21:N:398:ARG:HA	21:N:401:LYS:HB3	1.99	0.43
21:N:501:MET:O	21:N:505:SER:OG	2.29	0.43
21:N:533:ASP:HA	21:N:536:ILE:HD12	1.99	0.43
21:N:586:ALA:HA	21:N:589:ILE:HD12	2.01	0.43
21:N:869:ASP:OD2	21:N:882:ILE:HG21	2.18	0.43
21:N:920:VAL:C	21:N:924:LYS:NZ	2.76	0.43
22:O:131:SER:O	22:O:132:GLU:C	2.61	0.43
22:O:134:ALA:HB1	22:O:174:THR:OG1	2.18	0.43
22:O:246:SER:O	22:O:249:ASP:HB2	2.19	0.43
22:O:280:LEU:HA	22:O:283:HIS:CG	2.53	0.43
22:O:311:GLU:HB3	22:O:315:LYS:HZ1	1.78	0.43
23:P:47:ARG:HA	23:P:85:LYS:CE	2.48	0.43
23:P:248:ASP:O	23:P:252:SER:N	2.51	0.43
23:P:297:GLU:O	23:P:300:VAL:HB	2.18	0.43
23:P:307:GLU:O	23:P:308:LEU:HB3	2.17	0.43
23:P:427:GLU:C	23:P:427:GLU:CD	2.86	0.43
24:Q:118:CYS:SG	24:Q:144:LEU:HD11	2.58	0.43
24:Q:130:ARG:HG2	24:Q:132:PHE:H	1.82	0.43
24:Q:325:LEU:HD12	24:Q:331:THR:HG21	1.99	0.43
24:Q:394:ASN:O	24:Q:396:TRP:NE1	2.51	0.43
25:R:76:GLN:CD	25:R:84:LYS:HD3	2.43	0.43
25:R:113:LEU:HD23	25:R:140:TYR:HE2	1.82	0.43
26:S:155:LEU:HD23	26:S:158:PHE:CD2	2.53	0.43
26:S:159:ASN:ND2	26:S:187:ILE:HD13	2.34	0.43
26:S:247:VAL:O	26:S:249:SER:N	2.51	0.43
26:S:353:LYS:HZ1	32:Y:67:VAL:HA	1.80	0.43
26:S:410:LYS:CD	26:S:413:LEU:HD23	2.46	0.43
27:T:187:ASP:C	27:T:191:LYS:HZ3	2.25	0.43
27:T:189:ILE:HA	27:T:192:ASN:HB2	1.99	0.43
27:T:254:ASP:O	27:T:255:GLN:C	2.60	0.43
28:U:27:THR:HA	28:U:31:LYS:CE	2.42	0.43
28:U:37:ILE:HG23	28:U:93:TYR:N	2.33	0.43
28:U:40:ASP:CG	28:U:88:LYS:HZ3	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:U:94:HIS:ND1	28:U:96:GLY:N	2.66	0.43
29:V:247:ILE:HA	29:V:250:GLN:OE1	2.17	0.43
29:V:254:ARG:NH1	29:V:291:ASN:ND2	2.67	0.43
31:X:47:ASP:HA	31:X:66:LEU:O	2.18	0.43
33:Z:116:ALA:HB1	33:Z:137:TYR:O	2.17	0.43
33:Z:376:SER:O	33:Z:380:ASN:N	2.26	0.43
33:Z:770:GLU:HG2	33:Z:893:PHE:HE2	1.83	0.43
33:Z:914:LEU:HD11	33:Z:916:LEU:HD21	1.99	0.43
33:Z:985:LYS:CG	33:Z:990:ARG:HA	2.47	0.43
8:a:46:ARG:HG3	8:a:154:ILE:CD1	2.48	0.43
10:c:98:TYR:CE1	10:c:106:ILE:HA	2.54	0.43
12:e:90:GLU:O	12:e:94:THR:N	2.39	0.43
13:f:226:ASP:N	13:f:229:ALA:HB3	2.33	0.43
3:h:69:ALA:HB1	4:i:145:HIS:O	2.18	0.43
3:h:78:VAL:HG12	3:h:82:LEU:HD11	1.99	0.43
4:i:94:LEU:HD23	4:i:94:LEU:HA	1.80	0.43
4:i:127:LEU:HB2	4:i:142:ILE:HB	2.00	0.43
5:j:124:PHE:HE1	5:j:130:ILE:HG23	1.84	0.43
5:j:187:VAL:O	5:j:197:LYS:HA	2.18	0.43
5:j:188:TYR:HB3	5:j:195:VAL:HG11	2.00	0.43
6:k:3:ILE:HD11	6:k:172:MET:SD	2.57	0.43
6:k:4:ILE:CG1	6:k:47:ALA:HB2	2.48	0.43
6:k:20:ALA:HA	6:k:30:ASP:HA	2.00	0.43
6:k:29:LYS:HE2	6:k:32:ASP:HA	2.00	0.43
1:1:143:SER:C	1:1:144:PHE:HD1	2.26	0.43
2:2:92:ASP:O	2:2:96:ILE:HG13	2.18	0.43
2:2:107:ASN:HB2	2:2:120:LEU:HD21	2.00	0.43
2:2:107:ASN:ND2	2:2:120:LEU:HG	2.34	0.43
3:3:60:ILE:C	3:3:61:TRP:CD1	2.96	0.43
3:3:109:LYS:HG3	3:3:110:ASP:N	2.33	0.43
3:3:172:ASP:O	3:3:176:HIS:N	2.29	0.43
4:4:97:LEU:C	4:4:100:SER:H	2.26	0.43
5:5:118:LYS:HE3	5:5:118:LYS:HB3	1.89	0.43
6:6:143:LEU:HD12	6:6:164:CYS:HA	2.01	0.43
7:7:158:LEU:O	7:7:161:LEU:HB3	2.18	0.43
1:8:111:ASN:N	12:E:102:TYR:O	2.51	0.43
1:8:197:GLU:O	1:8:201:LYS:HG3	2.18	0.43
2:9:37:PRO:O	2:9:38:ILE:HD13	2.19	0.43
2:9:42:THR:HG21	2:9:58:ASP:CG	2.44	0.43
2:9:92:ASP:O	2:9:96:ILE:HG13	2.18	0.43
2:9:129:LEU:O	2:9:132:VAL:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:46:ARG:HG3	8:A:154:ILE:CD1	2.48	0.43
8:A:81:MET:HG2	8:A:82:VAL:N	2.33	0.43
8:A:129:THR:HG22	9:B:128:ARG:HE	1.82	0.43
9:B:205:ASN:N	9:B:208:THR:OG1	2.46	0.43
10:C:106:ILE:HD13	10:C:111:LEU:HB2	1.99	0.43
11:D:44:LEU:HD11	11:D:136:ALA:HB3	2.01	0.43
11:D:67:ILE:HG23	11:D:90:ARG:N	2.33	0.43
13:F:143:HIS:ND1	13:F:155:GLU:OE2	2.42	0.43
14:G:40:ILE:O	14:G:47:VAL:N	2.44	0.43
14:G:67:ILE:H	14:G:215:GLU:CD	2.22	0.43
14:G:175:GLU:O	14:G:178:LYS:HB2	2.18	0.43
14:G:187:LEU:HA	14:G:187:LEU:HD12	1.80	0.43
15:H:390:ARG:HG2	15:H:394:LYS:CE	2.41	0.43
15:H:445:LYS:O	15:H:448:ASP:HB2	2.18	0.43
16:I:221:LEU:HD23	16:I:348:ILE:HB	2.00	0.43
16:I:292:TYR:CD2	16:I:293:ASP:HB2	2.53	0.43
17:J:286:LYS:C	17:J:288:ILE:H	2.26	0.43
18:K:85:GLU:O	18:K:88:ARG:N	2.51	0.43
18:K:121:ARG:HA	18:K:121:ARG:HD3	1.57	0.43
18:K:299:LEU:HA	18:K:302:GLN:HB2	1.99	0.43
18:K:365:GLU:CG	18:K:404:GLN:HB3	2.42	0.43
19:L:82:ARG:HG2	19:L:85:GLU:OE1	2.18	0.43
19:L:183:ILE:HD12	19:L:231:LEU:HG	2.01	0.43
19:L:387:ASN:H	19:L:390:ASP:HB2	1.84	0.43
20:M:118:VAL:HG22	20:M:128:PHE:CA	2.48	0.43
20:M:127:VAL:HG11	20:M:153:TYR:CD2	2.52	0.43
20:M:178:GLU:HG3	20:M:233:ARG:HB3	2.00	0.43
20:M:223:PRO:HA	20:M:328:ASN:OD1	2.18	0.43
21:N:28:ILE:O	21:N:32:VAL:N	2.51	0.43
21:N:542:SER:HB2	21:N:547:LEU:HD12	2.00	0.43
21:N:874:ILE:CG2	21:N:875:LEU:H	2.24	0.43
22:O:30:GLU:HG2	22:O:34:GLU:O	2.18	0.43
22:O:107:GLN:HE21	22:O:112:LYS:CD	2.31	0.43
22:O:306:ARG:O	22:O:350:ILE:HD12	2.18	0.43
23:P:329:PHE:CE2	23:P:337:HIS:HD2	2.36	0.43
23:P:354:SER:HA	23:P:402:PHE:CZ	2.53	0.43
23:P:436:GLU:HA	23:P:439:MET:HE3	2.01	0.43
24:Q:178:HIS:CD2	24:Q:197:SER:HA	2.52	0.43
24:Q:420:ASN:HD22	25:R:413:LYS:HD2	1.84	0.43
25:R:60:ALA:HB1	25:R:99:TYR:CE2	2.53	0.43
25:R:66:LEU:HD12	25:R:69:GLU:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:67:CYS:HB2	25:R:94:PHE:CZ	2.53	0.43
25:R:280:ILE:O	25:R:282:THR:N	2.52	0.43
25:R:288:SER:CB	25:R:292:LEU:HD12	2.49	0.43
25:R:384:VAL:HG21	26:S:403:SER:CB	2.48	0.43
26:S:12:SER:HG	26:S:13:SER:H	1.66	0.43
26:S:58:LYS:O	26:S:61:SER:N	2.51	0.43
26:S:137:PHE:O	26:S:140:LEU:HB3	2.17	0.43
26:S:159:ASN:HD21	26:S:187:ILE:HD13	1.82	0.43
26:S:159:ASN:HB2	26:S:188:TYR:OH	2.18	0.43
26:S:316:LEU:O	26:S:319:CYS:HB2	2.18	0.43
26:S:390:THR:CG2	26:S:394:ILE:HD11	2.48	0.43
27:T:59:LYS:HD2	27:T:88:TYR:HB3	2.00	0.43
27:T:134:LYS:O	27:T:138:ASP:OD2	2.36	0.43
27:T:201:PRO:HD2	27:T:204:ASN:HD22	1.83	0.43
27:T:220:PHE:O	27:T:224:ARG:HG2	2.17	0.43
28:U:12:PRO:O	28:U:15:LEU:N	2.51	0.43
28:U:32:ARG:O	28:U:34:VAL:HG23	2.17	0.43
29:V:29:ILE:N	29:V:203:TYR:HA	2.16	0.43
29:V:162:GLY:CA	29:V:165:ILE:HD12	2.49	0.43
29:V:260:GLU:O	29:V:263:GLU:HB2	2.18	0.43
31:X:92:SER:OG	31:X:94:ASN:HB2	2.19	0.43
33:Z:196:SER:OG	33:Z:201:LEU:HD11	2.18	0.43
33:Z:223:LEU:O	33:Z:227:ILE:HG12	2.17	0.43
33:Z:303:ASP:HB3	33:Z:306:MET:CB	2.46	0.43
33:Z:471:LEU:CG	33:Z:496:ALA:HA	2.49	0.43
33:Z:478:VAL:HA	33:Z:489:ALA:CB	2.48	0.43
33:Z:793:PHE:HE2	33:Z:827:LEU:HA	1.82	0.43
33:Z:902:TYR:HB3	33:Z:905:ASN:ND2	2.33	0.43
8:a:119:LYS:HZ3	4:i:98:TYR:HA	1.84	0.43
8:a:240:ASN:O	8:a:243:GLU:HB3	2.17	0.43
9:b:12:PHE:CE2	10:c:129:ARG:HB2	2.53	0.43
10:c:40:ALA:HB1	10:c:184:MET:O	2.18	0.43
10:c:63:THR:O	10:c:67:TYR:OH	2.32	0.43
10:c:113:ARG:CZ	6:k:71:GLU:OE2	2.66	0.43
10:c:231:LYS:HB2	10:c:234:GLU:HG3	2.00	0.43
11:d:137:GLY:C	11:d:138:PHE:HD1	2.25	0.43
12:e:146:GLY:N	12:e:154:GLN:O	2.48	0.43
12:e:192:THR:O	12:e:195:GLU:HB2	2.18	0.43
13:f:169:LYS:O	13:f:173:GLU:N	2.43	0.43
14:g:37:SER:HB3	14:g:50:VAL:HG23	2.00	0.43
3:h:116:ILE:N	3:h:132:ILE:O	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:175:LEU:HA	4:i:179:GLU:OE1	2.18	0.43
5:j:63:LEU:HD21	5:j:103:TYR:CZ	2.53	0.43
6:k:119:ILE:HA	6:k:124:THR:O	2.18	0.43
6:k:130:TYR:CD1	6:k:144:LEU:HD13	2.54	0.43
1:1:174:ASN:C	1:1:191:LEU:HD21	2.44	0.43
1:1:197:GLU:O	1:1:201:LYS:HG3	2.18	0.43
2:2:37:PRO:O	2:2:38:ILE:HD13	2.19	0.43
2:2:133:MET:CE	2:2:165:LEU:HA	2.49	0.43
2:2:253:ASP:O	2:2:256:LYS:HG2	2.18	0.43
3:3:47:ASN:OD1	3:3:47:ASN:C	2.62	0.43
3:3:59:LYS:HD3	3:3:121:TYR:CD2	2.40	0.43
4:4:68:PRO:HB3	9:B:222:LEU:O	2.18	0.43
5:5:98:ARG:HA	5:5:98:ARG:HD3	1.72	0.43
6:6:14:ILE:HD13	6:6:158:LEU:HD21	2.00	0.43
6:6:17:SER:O	6:6:180:ILE:N	2.44	0.43
6:6:80:VAL:O	6:6:84:VAL:N	2.39	0.43
6:6:91:SER:C	6:6:94:SER:H	2.25	0.43
1:8:119:LYS:O	1:8:120:ARG:C	2.61	0.43
2:9:89:ASP:OD1	2:9:90:ILE:N	2.50	0.43
8:A:12:TYR:O	8:A:15:HIS:N	2.52	0.43
8:A:87:ILE:HD12	8:A:90:ALA:HB3	1.99	0.43
9:B:204:PHE:CE2	9:B:247:LEU:HD22	2.54	0.43
11:D:41:CYS:HA	11:D:138:PHE:CZ	2.54	0.43
11:D:56:ASP:OD2	11:D:58:ARG:CZ	2.65	0.43
11:D:97:ARG:HA	11:D:102:ASP:C	2.43	0.43
12:E:148:ASP:OD1	12:E:151:ASP:HB2	2.18	0.43
12:E:232:ASP:OD1	12:E:235:LYS:HB3	2.18	0.43
13:F:6:TYR:CD1	13:F:15:PRO:HD3	2.53	0.43
13:F:116:ALA:O	13:F:119:ASN:HB2	2.18	0.43
14:G:44:ASP:OD2	14:G:221:LEU:N	2.52	0.43
14:G:123:HIS:CD2	14:G:132:PHE:CZ	3.07	0.43
15:H:59:ILE:HG13	16:I:99:ILE:HG12	2.00	0.43
15:H:340:LEU:HD23	15:H:370:ARG:NH2	2.33	0.43
16:I:133:LEU:HD23	16:I:133:LEU:HA	1.76	0.43
16:I:149:LEU:HA	16:I:155:SER:O	2.18	0.43
16:I:363:GLY:HA2	16:I:377:LEU:HD21	2.00	0.43
17:J:74:GLU:CG	17:J:110:SER:HA	2.49	0.43
17:J:140:GLU:HG2	17:J:143:PRO:HG3	1.99	0.43
18:K:122:ILE:HA	18:K:146:LEU:CB	2.35	0.43
18:K:154:SER:O	18:K:253:MET:HE2	2.17	0.43
18:K:209:VAL:HG22	18:K:315:ILE:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:237:VAL:HG12	18:K:238:ASN:N	2.33	0.43
18:K:302:GLN:HG2	18:K:306:PHE:HE2	1.83	0.43
18:K:395:VAL:HG13	19:L:203:ASN:ND2	2.34	0.43
19:L:145:ARG:HH21	19:L:162:GLU:C	2.26	0.43
20:M:26:SER:OG	20:M:27:THR:N	2.51	0.43
20:M:146:VAL:HB	20:M:155:ILE:HG23	2.00	0.43
21:N:246:LYS:O	21:N:249:ASN:HB2	2.19	0.43
21:N:362:TRP:CZ2	21:N:742:TRP:HH2	2.36	0.43
21:N:596:LEU:HD12	21:N:628:ALA:HA	2.00	0.43
21:N:604:ARG:O	21:N:607:GLN:HB3	2.18	0.43
21:N:651:PHE:HA	21:N:654:GLN:OE1	2.18	0.43
21:N:658:ILE:HD11	21:N:698:GLY:HA2	2.00	0.43
21:N:699:ALA:O	21:N:703:GLN:N	2.36	0.43
21:N:918:GLU:HA	21:N:922:GLN:HG3	1.99	0.43
22:O:33:TYR:O	22:O:34:GLU:HG3	2.19	0.43
22:O:40:GLN:OE1	22:O:40:GLN:N	2.44	0.43
22:O:48:PHE:HZ	22:O:73:ILE:HG21	1.83	0.43
22:O:73:ILE:HG23	30:W:17:ARG:HH21	1.82	0.43
22:O:130:ASP:OD2	22:O:167:ILE:HA	2.17	0.43
22:O:228:TYR:OH	22:O:283:HIS:HB3	2.18	0.43
22:O:240:GLU:HG2	22:O:243:VAL:O	2.17	0.43
22:O:363:ILE:HG12	28:U:207:VAL:HG11	2.01	0.43
23:P:60:ALA:HA	23:P:96:MET:HG3	2.01	0.43
23:P:66:LEU:HB3	23:P:70:ASN:HD21	1.82	0.43
23:P:143:LEU:CG	23:P:147:LYS:HE3	2.47	0.43
23:P:220:TYR:HE2	23:P:224:LEU:HD22	1.84	0.43
24:Q:74:LEU:HD12	24:Q:77:PHE:HB3	1.99	0.43
24:Q:157:LEU:O	24:Q:161:LEU:HG	2.18	0.43
24:Q:344:GLU:HG3	24:Q:376:LYS:HE2	2.01	0.43
25:R:50:VAL:O	25:R:54:ILE:HG12	2.19	0.43
25:R:140:TYR:O	25:R:144:ILE:HG13	2.19	0.43
25:R:154:LEU:HD22	25:R:173:THR:HB	1.98	0.43
25:R:241:ILE:O	25:R:244:THR:N	2.44	0.43
26:S:230:LYS:O	26:S:233:LEU:HB2	2.17	0.43
26:S:291:GLU:HA	26:S:294:ILE:HD12	1.99	0.43
26:S:351:ALA:HB1	26:S:360:PHE:HA	1.99	0.43
26:S:354:LEU:HD13	26:S:356:ASP:OD2	2.19	0.43
26:S:467:PHE:C	26:S:469:ASN:N	2.76	0.43
27:T:142:LEU:O	27:T:145:PRO:HD2	2.17	0.43
28:U:21:HIS:HD2	29:V:100:ARG:NH2	2.16	0.43
29:V:91:MET:O	29:V:92:MET:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:124:ASN:HA	29:V:127:LYS:HE2	2.00	0.43
29:V:202:ASP:CG	29:V:203:TYR:N	2.75	0.43
31:X:103:GLU:HB3	31:X:105:ASN:ND2	2.33	0.43
33:Z:277:GLU:CD	33:Z:280:ASP:HB3	2.42	0.43
33:Z:347:ASN:HB3	33:Z:353:VAL:HG23	2.00	0.43
33:Z:439:TYR:HA	33:Z:442:VAL:HG23	2.01	0.43
33:Z:823:ASN:HA	33:Z:831:LEU:CD1	2.49	0.43
33:Z:848:THR:HA	33:Z:851:ALA:HB3	2.00	0.43
8:a:105:ARG:O	8:a:109:GLY:N	2.49	0.43
9:b:14:PRO:HA	10:c:24:TYR:CE1	2.54	0.43
9:b:108:LYS:HZ2	5:j:78:GLU:C	2.27	0.43
10:c:77:VAL:HG22	10:c:135:PHE:CE2	2.53	0.43
13:f:24:TYR:O	13:f:27:GLU:N	2.51	0.43
14:g:121:GLN:O	14:g:125:LEU:HG	2.18	0.43
3:h:14:GLY:O	4:i:126:TYR:HE1	2.00	0.43
3:h:85:TYR:CZ	3:h:89:TYR:HB2	2.53	0.43
3:h:194:MET:HB2	3:h:205:LEU:HD12	2.00	0.43
4:i:35:VAL:O	4:i:42:VAL:N	2.40	0.43
4:i:38:ASN:HD21	4:i:176:THR:HA	1.83	0.43
4:i:189:GLN:HB3	4:i:193:TRP:CD1	2.53	0.43
5:j:4:PRO:HG2	5:j:104:PHE:CD1	2.54	0.43
5:j:50:PHE:HB2	5:j:110:ALA:HB3	2.00	0.43
5:j:85:GLU:HG3	5:j:120:PHE:CE1	2.53	0.43
5:j:88:THR:HG23	5:j:124:PHE:CZ	2.49	0.43
5:j:164:PHE:HA	5:j:167:ILE:HG22	2.00	0.43
6:k:84:VAL:O	6:k:87:GLU:HG2	2.18	0.43
6:k:153:THR:H	6:k:156:GLU:CD	2.25	0.43
7:l:119:THR:OG1	7:l:174:THR:OG1	2.31	0.43
1:1:134:ASP:CG	1:1:136:ASP:H	2.27	0.43
1:1:176:LYS:HB2	5:5:173:ASN:OD1	2.18	0.43
2:2:113:LEU:HB2	2:2:118:GLU:HB2	2.01	0.43
2:2:160:LEU:HG	2:2:175:LEU:HD12	2.01	0.43
2:2:197:ASP:OD1	2:2:197:ASP:N	2.50	0.43
3:3:38:ARG:HD2	3:3:187:SER:O	2.19	0.43
3:3:71:THR:HA	3:3:74:ILE:HB	2.01	0.43
3:3:78:VAL:HG22	3:3:100:VAL:HG12	1.99	0.43
3:3:166:SER:H	3:3:169:GLU:CD	2.20	0.43
5:5:186:VAL:HA	5:5:198:ARG:O	2.19	0.43
5:5:188:TYR:HB3	5:5:195:VAL:HG11	2.00	0.43
6:6:4:ILE:CG1	6:6:47:ALA:HB2	2.48	0.43
7:7:102:ALA:O	1:8:156:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:31:ILE:CG2	1:8:61:LYS:HD2	2.49	0.43
1:8:75:GLY:HA3	1:8:126:VAL:HG12	2.01	0.43
1:8:180:GLU:N	1:8:187:VAL:O	2.41	0.43
2:9:111:ASN:HB3	2:9:114:ALA:HB2	2.00	0.43
2:9:160:LEU:HG	2:9:175:LEU:HD12	2.01	0.43
2:9:234:ASP:N	2:9:238:GLY:O	2.45	0.43
8:A:75:ILE:N	8:A:79:ILE:O	2.51	0.43
8:A:131:ARG:CZ	8:A:133:TYR:HE1	2.32	0.43
9:B:186:GLU:O	9:B:190:HIS:N	2.37	0.43
10:C:120:GLN:O	10:C:123:THR:HB	2.18	0.43
10:C:207:THR:OG1	10:C:209:ASP:OD1	2.14	0.43
10:C:231:LYS:HB2	10:C:234:GLU:HG3	2.00	0.43
12:E:24:VAL:O	12:E:28:LEU:HD13	2.19	0.43
12:E:220:SER:CB	12:E:230:ILE:HA	2.48	0.43
12:E:243:LEU:H	12:E:243:LEU:CD2	2.06	0.43
14:G:95:GLU:HA	14:G:98:SER:HB3	2.00	0.43
14:G:149:TYR:HD1	14:G:159:GLY:HA2	1.80	0.43
15:H:167:ASP:HA	15:H:186:PRO:HB3	2.01	0.43
15:H:228:PRO:CG	15:H:350:LYS:NZ	2.82	0.43
15:H:275:ILE:HB	15:H:278:GLU:CG	2.48	0.43
15:H:305:ILE:HG12	15:H:350:LYS:HB2	2.00	0.43
15:H:341:ASP:O	15:H:346:ARG:NH1	2.49	0.43
16:I:112:ILE:HB	16:I:143:PRO:HG3	2.01	0.43
16:I:188:GLU:HA	16:I:191:ILE:HD12	2.01	0.43
17:J:47:GLN:NE2	26:S:479:MET:HE2	2.20	0.43
17:J:99:ALA:N	17:J:122:LEU:HB2	2.34	0.43
17:J:99:ALA:O	17:J:102:ILE:HG12	2.18	0.43
17:J:168:VAL:HG22	17:J:287:ASN:HB3	2.01	0.43
17:J:228:ARG:NH1	17:J:232:GLU:OE2	2.47	0.43
18:K:61:LEU:O	18:K:62:THR:C	2.62	0.43
18:K:75:LEU:HA	18:K:75:LEU:HD23	1.80	0.43
18:K:191:PRO:O	18:K:310:THR:OG1	2.35	0.43
18:K:212:TYR:O	18:K:339:GLU:HA	2.18	0.43
18:K:393:ARG:O	18:K:397:LYS:N	2.49	0.43
19:L:221:TYR:CG	19:L:330:PRO:HD3	2.54	0.43
19:L:297:ALA:O	19:L:301:ILE:HG12	2.18	0.43
19:L:300:GLU:HG2	19:L:303:ARG:HH12	1.83	0.43
20:M:152:SER:OG	20:M:154:LEU:HB2	2.19	0.43
21:N:160:GLY:O	21:N:162:ARG:HG3	2.19	0.43
21:N:299:TYR:CD1	21:N:755:PRO:HB3	2.49	0.43
21:N:307:LYS:HD2	21:N:309:ILE:HD11	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:360:GLN:HE21	21:N:362:TRP:HB2	1.84	0.43
21:N:463:TYR:O	21:N:467:LYS:N	2.51	0.43
22:O:4:ASN:CG	22:O:42:SER:HB3	2.43	0.43
22:O:11:LEU:O	22:O:16:MET:HB3	2.18	0.43
22:O:83:LEU:HD13	22:O:128:LEU:CD1	2.49	0.43
22:O:196:LEU:HD23	22:O:233:LEU:HD21	2.01	0.43
22:O:254:LEU:HD21	22:O:266:PHE:CE1	2.54	0.43
22:O:325:GLU:HB3	23:P:364:ARG:NH2	2.28	0.43
23:P:22:SER:O	23:P:69:ARG:NH2	2.51	0.43
23:P:67:ALA:CA	23:P:75:LEU:HD22	2.49	0.43
23:P:421:GLU:HG2	28:U:235:LEU:HB3	2.00	0.43
24:Q:12:ARG:CZ	24:Q:12:ARG:HB2	2.48	0.43
24:Q:27:TYR:CD1	24:Q:57:SER:HB2	2.53	0.43
24:Q:50:ARG:O	24:Q:54:GLN:HG3	2.18	0.43
24:Q:84:TYR:O	24:Q:87:GLN:HB2	2.18	0.43
24:Q:257:LYS:O	24:Q:261:VAL:HG23	2.19	0.43
24:Q:335:PHE:CD1	24:Q:338:LEU:HD23	2.44	0.43
24:Q:347:LEU:O	24:Q:350:ILE:N	2.52	0.43
25:R:58:GLU:HB3	25:R:105:LYS:CD	2.45	0.43
25:R:78:ASP:CA	25:R:93:LYS:HA	2.30	0.43
25:R:353:MET:HA	25:R:357:PHE:CZ	2.54	0.43
25:R:408:ASP:HB2	26:S:464:ARG:NH1	2.34	0.43
26:S:7:MET:O	26:S:10:VAL:HB	2.18	0.43
26:S:17:ASP:OD1	26:S:20:HIS:HD2	2.00	0.43
26:S:197:SER:O	26:S:200:GLU:O	2.37	0.43
26:S:241:PHE:HA	26:S:245:GLY:N	2.34	0.43
26:S:338:MET:HG3	26:S:344:PRO:CD	2.48	0.43
27:T:50:ILE:O	27:T:55:LEU:N	2.51	0.43
27:T:174:PHE:CZ	27:T:177:PHE:HB2	2.54	0.43
28:U:19:LEU:O	28:U:23:GLU:N	2.28	0.43
28:U:75:ASN:O	28:U:78:GLU:HB2	2.19	0.43
28:U:104:LEU:CD1	28:U:152:LYS:HZ1	2.32	0.43
28:U:140:ILE:O	28:U:152:LYS:HG3	2.18	0.43
28:U:274:MET:O	28:U:277:TYR:N	2.50	0.43
29:V:163:ALA:C	29:V:165:ILE:N	2.74	0.43
30:W:12:ASN:HA	30:W:16:SER:CB	2.49	0.43
30:W:143:ASN:HD21	30:W:149:GLN:C	2.25	0.43
33:Z:103:TYR:OH	33:Z:137:TYR:HA	2.18	0.43
33:Z:449:ALA:HB2	33:Z:484:LYS:O	2.19	0.43
33:Z:536:GLY:HA2	33:Z:575:MET:HB2	1.99	0.43
8:a:209:HIS:HA	8:a:212:ASP:OD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:86:VAL:HA	9:b:89:SER:HB2	1.99	0.43
9:b:118:MET:CE	9:b:130:PHE:HB2	2.48	0.43
9:b:140:ASP:CG	9:b:143:ASN:HB2	2.43	0.43
10:c:74:ALA:O	10:c:138:ALA:HB3	2.18	0.43
10:c:175:LEU:HB3	10:c:199:LYS:HZ3	1.78	0.43
11:d:41:CYS:HA	11:d:138:PHE:CZ	2.54	0.43
11:d:44:LEU:HD11	11:d:136:ALA:HB3	2.01	0.43
11:d:68:ASP:C	11:d:71:VAL:H	2.27	0.43
11:d:96:HIS:O	11:d:100:LEU:N	2.47	0.43
11:d:138:PHE:HB3	11:d:142:ASP:O	2.19	0.43
12:e:148:ASP:OD1	12:e:151:ASP:HB2	2.18	0.43
13:f:11:VAL:CA	14:g:130:ARG:HB2	2.49	0.43
13:f:93:ASN:O	13:f:97:LEU:HG	2.18	0.43
3:h:71:THR:HA	3:h:74:ILE:HB	2.01	0.43
3:h:109:LYS:HG3	3:h:110:ASP:N	2.33	0.43
7:l:158:LEU:O	7:l:161:LEU:HB3	2.18	0.43
1:1:213:ARG:HA	1:1:213:ARG:HD3	1.81	0.43
2:2:73:GLU:OE2	2:2:75:LEU:CB	2.64	0.43
4:4:58:LYS:HZ3	5:5:151:GLU:CD	2.06	0.43
4:4:143:HIS:O	4:4:145:HIS:N	2.52	0.43
4:4:212:ASP:HB3	9:B:224:TYR:CA	2.48	0.43
5:5:4:PRO:HG2	5:5:104:PHE:CE1	2.54	0.43
5:5:164:PHE:HA	5:5:167:ILE:HG22	1.99	0.43
6:6:130:TYR:CD1	6:6:144:LEU:HD13	2.54	0.43
6:6:179:VAL:O	6:6:196:GLN:NE2	2.52	0.43
1:8:46:THR:HG22	1:8:59:GLU:N	2.34	0.43
1:8:75:GLY:CA	1:8:126:VAL:HG12	2.48	0.43
2:9:113:LEU:HB2	2:9:118:GLU:HB2	2.01	0.43
8:A:20:SER:H	8:A:24:ARG:H	1.67	0.43
8:A:43:LEU:C	8:A:43:LEU:HD12	2.44	0.43
9:B:101:TYR:O	9:B:103:GLU:HG2	2.18	0.43
9:B:179:TRP:HB2	10:C:56:LEU:HD21	2.01	0.43
10:C:85:GLU:HA	10:C:88:ILE:HD12	2.00	0.43
10:C:142:ASP:OD1	10:C:143:ARG:N	2.51	0.43
11:D:73:LEU:HD21	11:D:133:THR:HB	2.01	0.43
12:E:192:THR:O	12:E:195:GLU:HB2	2.18	0.43
13:F:228:GLU:HA	13:F:231:ALA:HB2	2.01	0.43
18:K:74:HIS:CD2	21:N:576:VAL:HG12	2.54	0.43
18:K:140:HIS:HB2	18:K:144:ASN:N	2.34	0.43
19:L:117:TYR:HB2	19:L:129:VAL:CG2	2.49	0.43
19:L:150:ILE:HD13	29:V:45:VAL:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:364:HIS:HB2	19:L:391:ILE:CG2	2.49	0.43
20:M:200:PRO:O	20:M:319:ASP:OD2	2.36	0.43
20:M:276:THR:HG22	20:M:321:VAL:HA	1.99	0.43
21:N:24:ALA:O	21:N:28:ILE:N	2.38	0.43
21:N:69:TYR:CB	21:N:74:GLU:HB2	2.48	0.43
21:N:80:LYS:HA	21:N:83:LEU:HD12	2.00	0.43
21:N:142:GLU:HA	21:N:145:LEU:HD12	2.01	0.43
21:N:318:LYS:HD2	21:N:348:PHE:CG	2.53	0.43
22:O:4:ASN:O	22:O:7:ILE:N	2.52	0.43
22:O:72:LYS:HG3	22:O:73:ILE:N	2.24	0.43
22:O:82:LEU:HA	22:O:86:LEU:HB2	2.00	0.43
22:O:153:LEU:O	22:O:156:THR:HB	2.19	0.43
22:O:169:ASN:CA	22:O:195:TYR:HE1	2.30	0.43
22:O:189:TYR:CE1	22:O:221:ALA:HB2	2.54	0.43
22:O:380:LEU:C	22:O:382:LYS:N	2.70	0.43
22:O:383:LYS:O	22:O:384:MET:C	2.62	0.43
23:P:91:LEU:HB3	23:P:95:TYR:CZ	2.54	0.43
23:P:101:MET:HE1	23:P:118:VAL:HB	2.00	0.43
23:P:220:TYR:CD2	23:P:220:TYR:C	2.97	0.43
23:P:265:VAL:HA	23:P:268:LEU:HD12	2.00	0.43
24:Q:117:VAL:HG22	24:Q:120:LYS:HZ2	1.84	0.43
24:Q:149:LYS:HG2	24:Q:151:TYR:OH	2.18	0.43
24:Q:169:ASP:CG	24:Q:170:ASP:H	2.24	0.43
25:R:33:LEU:HD12	25:R:43:ARG:C	2.43	0.43
25:R:97:GLU:O	25:R:101:GLU:N	2.42	0.43
25:R:117:ILE:HA	25:R:120:LEU:HB2	1.99	0.43
25:R:171:MET:SD	25:R:206:ARG:HB3	2.59	0.43
25:R:181:TYR:HB2	25:R:183:ASP:CG	2.43	0.43
25:R:220:ALA:HB2	25:R:321:TYR:CZ	2.54	0.43
25:R:393:PRO:HB2	25:R:397:ASN:HA	1.99	0.43
26:S:139:HIS:O	26:S:143:GLN:N	2.42	0.43
26:S:144:LEU:O	26:S:146:LEU:N	2.51	0.43
26:S:386:ASN:N	26:S:389:LYS:NZ	2.66	0.43
26:S:410:LYS:NZ	26:S:413:LEU:CD2	2.82	0.43
26:S:427:ILE:HD13	27:T:196:SER:HA	2.01	0.43
27:T:25:LYS:C	27:T:28:PRO:HD2	2.44	0.43
28:U:7:LYS:HB2	28:U:158:PRO:O	2.19	0.43
28:U:30:ASN:OD1	28:U:31:LYS:NZ	2.29	0.43
28:U:62:ASN:HB3	28:U:65:VAL:HB	2.00	0.43
30:W:101:ARG:CG	30:W:104:LYS:HG2	2.48	0.43
31:X:85:ARG:HD3	31:X:117:LYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:X:94:ASN:C	31:X:96:ARG:H	2.26	0.43
33:Z:181:GLY:HA2	33:Z:263:ALA:CA	2.48	0.43
33:Z:354:PRO:HG3	33:Z:922:PRO:CG	2.48	0.43
33:Z:767:TYR:O	33:Z:773:ARG:NE	2.51	0.43
33:Z:834:LEU:HD22	33:Z:851:ALA:HB1	2.01	0.43
8:a:131:ARG:HB2	8:a:134:MET:HB2	2.00	0.43
11:d:37:LYS:HB2	11:d:145:PRO:CB	2.48	0.43
11:d:73:LEU:HD21	11:d:133:THR:HB	2.01	0.43
11:d:97:ARG:HA	11:d:102:ASP:C	2.43	0.43
12:e:213:ASP:H	12:e:216:ASN:CG	2.24	0.43
13:f:94:TYR:CE1	13:f:98:VAL:HG21	2.53	0.43
13:f:172:LEU:HA	13:f:172:LEU:HD23	1.72	0.43
14:g:78:TYR:HA	14:g:136:THR:HA	2.00	0.43
14:g:189:ALA:O	14:g:193:VAL:HG23	2.18	0.43
3:h:60:ILE:C	3:h:61:TRP:CD1	2.96	0.43
4:i:143:HIS:O	4:i:145:HIS:N	2.52	0.43
5:j:102:PRO:HB2	5:j:126:LEU:HD13	2.00	0.43
6:k:4:ILE:HD13	6:k:4:ILE:HA	1.84	0.43
6:k:19:LYS:HG3	6:k:179:VAL:C	2.43	0.43
6:k:148:TYR:HA	6:k:152:MET:SD	2.58	0.43
7:l:110:ILE:HD11	7:l:120:MET:HB2	2.01	0.43
7:l:250:VAL:O	7:l:251:ASN:ND2	2.52	0.43
1:1:75:GLY:CA	1:1:126:VAL:HG12	2.48	0.43
1:1:87:PHE:O	1:1:90:SER:HB3	2.19	0.43
3:3:64:ARG:HD2	3:3:71:THR:HB	2.00	0.43
3:3:77:ILE:O	3:3:80:TYR:HB3	2.19	0.43
3:3:121:TYR:CE2	3:3:123:ASP:HA	2.54	0.43
4:4:47:THR:HG22	4:4:203:ASP:OD2	2.19	0.43
4:4:127:LEU:HB2	4:4:142:ILE:HB	2.00	0.43
5:5:187:VAL:O	5:5:197:LYS:HA	2.18	0.43
6:6:19:LYS:HG3	6:6:179:VAL:C	2.43	0.43
7:7:95:ALA:O	7:7:102:ALA:N	2.51	0.43
1:8:27:ASN:O	1:8:49:ILE:CG1	2.56	0.43
1:8:27:ASN:OD1	1:8:77:ALA:N	2.51	0.43
1:8:174:ASN:C	1:8:191:LEU:HD21	2.44	0.43
2:9:42:THR:C	2:9:74:ARG:NH1	2.69	0.43
2:9:262:GLY:O	2:9:264:GLN:N	2.51	0.43
8:A:166:TYR:CD2	9:B:56:ALA:HA	2.54	0.43
9:B:4:ARG:HD3	13:F:123:TYR:CD2	2.54	0.43
9:B:11:THR:HB	10:C:21:GLN:NE2	2.34	0.43
10:C:165:VAL:HA	10:C:169:THR:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:D:6:ARG:HA	12:E:125:GLU:OE2	2.18	0.43
11:D:162:GLN:NE2	11:D:163:THR:N	2.67	0.43
14:G:37:SER:HB3	14:G:50:VAL:HG23	2.00	0.43
14:G:109:ILE:HG12	14:G:142:ASP:CB	2.49	0.43
15:H:55:ASP:HA	16:I:99:ILE:CD1	2.48	0.43
15:H:223:GLU:OE2	20:M:403:LEU:HB3	2.17	0.43
15:H:273:ARG:HA	15:H:307:PHE:HB3	2.01	0.43
15:H:381:ASP:O	15:H:385:ARG:HG3	2.19	0.43
16:I:114:ASP:C	16:I:116:ASP:N	2.73	0.43
17:J:184:GLY:HA3	17:J:309:ARG:O	2.19	0.43
17:J:327:ILE:HG22	17:J:331:HIS:CD2	2.53	0.43
18:K:316:MET:HE1	18:K:334:LEU:HD22	2.01	0.43
18:K:397:LYS:NZ	18:K:409:GLU:OE2	2.49	0.43
19:L:72:ASP:CA	19:L:75:LYS:NZ	2.81	0.43
19:L:252:VAL:HB	19:L:286:ILE:HG22	2.00	0.43
21:N:91:ILE:HG13	21:N:92:ASP:N	2.32	0.43
21:N:302:PHE:CD1	21:N:306:ASN:ND2	2.87	0.43
21:N:324:LYS:HE2	21:N:693:GLY:H	1.82	0.43
21:N:762:ARG:O	21:N:904:VAL:HG13	2.17	0.43
22:O:40:GLN:HG3	22:O:58:ARG:CD	2.48	0.43
22:O:69:PHE:HB3	22:O:106:PHE:HZ	1.84	0.43
22:O:95:SER:HB3	22:O:135:ARG:NH1	2.33	0.43
22:O:383:LYS:HB2	22:O:383:LYS:HE2	1.64	0.43
23:P:55:SER:OG	23:P:57:GLU:HB3	2.18	0.43
23:P:205:LYS:O	23:P:209:LYS:HG3	2.19	0.43
23:P:259:PRO:O	23:P:263:HIS:N	2.45	0.43
23:P:283:LYS:HG2	23:P:286:ASN:HD22	1.83	0.43
23:P:363:LEU:C	23:P:367:GLU:HG3	2.43	0.43
23:P:409:SER:C	23:P:412:LEU:HG	2.43	0.43
24:Q:8:LEU:HB3	24:Q:50:ARG:HH12	1.80	0.43
24:Q:27:TYR:HB3	24:Q:61:LEU:HD22	2.01	0.43
24:Q:34:ASP:O	24:Q:35:SER:OG	2.34	0.43
24:Q:98:LYS:HZ2	24:Q:140:LYS:NZ	2.16	0.43
24:Q:171:LYS:O	24:Q:174:LEU:HB3	2.18	0.43
24:Q:178:HIS:CD2	24:Q:200:ALA:HB3	2.54	0.43
24:Q:275:ILE:HD12	24:Q:307:ASN:OD1	2.19	0.43
24:Q:310:SER:O	24:Q:314:PHE:HD2	2.02	0.43
24:Q:370:THR:O	24:Q:373:VAL:HB	2.19	0.43
24:Q:424:ASP:CG	25:R:416:LYS:NZ	2.76	0.43
25:R:23:ASN:O	25:R:26:VAL:HB	2.19	0.43
25:R:28:GLU:O	25:R:31:PHE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:259:PHE:HE1	25:R:332:GLU:HB2	1.81	0.43
25:R:369:GLY:HA3	26:S:395:ILE:HB	1.93	0.43
26:S:170:TYR:HE1	26:S:174:ARG:HH11	1.66	0.43
26:S:385:SER:O	26:S:389:LYS:N	2.32	0.43
27:T:56:MET:O	27:T:59:LYS:HB3	2.19	0.43
27:T:197:TYR:O	27:T:235:PHE:CD1	2.72	0.43
27:T:202:LEU:N	27:T:232:LYS:HA	2.34	0.43
28:U:16:LEU:CB	29:V:32:ILE:HG12	2.41	0.43
28:U:132:LEU:HA	29:V:215:ASN:HD21	1.84	0.43
29:V:136:ALA:N	29:V:157:ARG:HD3	2.22	0.43
29:V:145:GLN:O	29:V:148:LYS:HG2	2.19	0.43
29:V:231:GLU:O	29:V:234:GLU:N	2.52	0.43
31:X:15:CYS:HB2	31:X:100:TRP:CA	2.48	0.43
33:Z:197:LYS:O	33:Z:201:LEU:HG	2.19	0.43
33:Z:374:LEU:HD21	33:Z:849:ARG:HH22	1.83	0.43
33:Z:392:LEU:HD13	33:Z:424:SER:HB3	2.00	0.43
33:Z:396:ASN:O	33:Z:398:LYS:N	2.51	0.43
33:Z:415:MET:O	33:Z:419:VAL:HG23	2.18	0.43
33:Z:474:LEU:HA	33:Z:477:TYR:HD2	1.83	0.43
33:Z:736:LEU:HA	33:Z:739:ALA:HB3	2.00	0.43
33:Z:822:THR:OG1	33:Z:826:ARG:NH2	2.51	0.43
8:a:75:ILE:N	8:a:79:ILE:O	2.51	0.43
8:a:112:MET:HE2	8:a:112:MET:HB3	1.84	0.43
8:a:220:LYS:HD2	8:a:238:ALA:HB1	2.00	0.43
12:e:91:HIS:NE2	12:e:119:LEU:HD21	2.34	0.43
12:e:153:TYR:HE1	12:e:223:THR:HA	1.82	0.43
13:f:7:ASP:HB2	13:f:20:PHE:HB2	2.01	0.43
13:f:64:ILE:O	13:f:72:LEU:N	2.45	0.43
13:f:168:ALA:CA	13:f:199:GLN:HB2	2.49	0.43
14:g:11:SER:HB2	14:g:14:VAL:HG23	2.00	0.43
14:g:44:ASP:OD2	14:g:221:LEU:N	2.52	0.43
3:h:30:GLY:N	3:h:126:LYS:HD3	2.33	0.43
3:h:77:ILE:O	3:h:80:TYR:HB3	2.19	0.43
4:i:243:LYS:H	5:j:199:TYR:HB2	1.83	0.43
5:j:49:VAL:HG22	5:j:84:PRO:HG3	2.01	0.43
5:j:186:VAL:HA	5:j:198:ARG:O	2.19	0.43
6:k:143:LEU:HD12	6:k:164:CYS:HA	2.01	0.43
7:l:95:ALA:O	7:l:102:ALA:N	2.52	0.43
7:l:126:ASP:O	7:l:130:TRP:N	2.50	0.43
1:1:31:ILE:HG23	1:1:74:ASN:HD22	1.84	0.43
1:1:39:PHE:HA	1:1:133:LEU:HD21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:110:ARG:NH1	7:l:132:THR:HG21	2.34	0.43
2:2:37:PRO:HD3	2:2:144:TRP:CZ2	2.53	0.43
2:2:55:ILE:O	2:2:230:LEU:HG	2.18	0.43
2:2:60:LEU:HD21	2:2:67:LEU:HB3	2.00	0.43
2:2:198:ILE:N	2:2:199:PRO:HD2	2.34	0.43
2:2:210:ILE:O	2:2:214:MET:HG2	2.19	0.43
3:3:22:ILE:HG13	3:3:146:ALA:HB3	2.01	0.43
4:4:38:ASN:HD21	4:4:176:THR:HA	1.83	0.43
4:4:186:ASP:OD1	4:4:186:ASP:N	2.51	0.43
5:5:11:ILE:HG22	5:5:141:THR:N	2.34	0.43
5:5:29:LEU:HB2	5:5:40:PHE:CB	2.47	0.43
5:5:45:HIS:HB2	5:5:50:PHE:CD1	2.53	0.43
5:5:88:THR:HG23	5:5:124:PHE:CZ	2.49	0.43
5:5:183:TRP:HH2	7:l:242:ARG:HH11	1.64	0.43
6:6:119:ILE:HA	6:6:124:THR:O	2.19	0.43
6:6:150:PRO:HD3	7:l:283:ASN:HD22	1.83	0.43
7:7:279:GLU:OE2	6:k:146:HIS:CE1	2.72	0.43
1:8:143:SER:C	1:8:144:PHE:HD1	2.26	0.43
2:9:74:ARG:HB3	2:9:86:ILE:O	2.19	0.43
2:9:107:ASN:ND2	2:9:120:LEU:HG	2.34	0.43
2:9:133:MET:CE	2:9:165:LEU:HA	2.49	0.43
8:A:43:LEU:N	8:A:54:ILE:O	2.40	0.43
8:A:113:PRO:O	8:A:116:VAL:HB	2.19	0.43
9:B:172:LYS:HA	9:B:175:LEU:HB2	2.01	0.43
11:D:95:SER:O	11:D:99:THR:N	2.37	0.43
11:D:96:HIS:HD2	11:D:108:TYR:CE2	2.36	0.43
12:E:68:VAL:O	12:E:76:CYS:N	2.39	0.43
13:F:26:LEU:O	13:F:29:ILE:HB	2.19	0.43
13:F:33:SER:O	13:F:162:GLY:HA3	2.19	0.43
13:F:65:LYS:NZ	13:F:68:GLU:OE1	2.51	0.43
14:G:53:LEU:HD23	14:G:53:LEU:HA	1.63	0.43
14:G:80:GLY:CA	14:G:134:VAL:HG12	2.47	0.43
15:H:178:ARG:NH2	15:H:285:GLY:O	2.51	0.43
15:H:209:SER:H	15:H:211:VAL:HG23	1.83	0.43
15:H:233:GLU:C	15:H:237:THR:HG1	2.27	0.43
16:I:384:LYS:NZ	16:I:392:ILE:CG1	2.77	0.43
16:I:403:ALA:HA	16:I:406:GLU:HB2	2.01	0.43
17:J:44:LEU:HA	17:J:47:GLN:CG	2.48	0.43
17:J:113:VAL:C	17:J:126:LEU:HG	2.43	0.43
18:K:218:GLY:O	18:K:222:LEU:N	2.45	0.43
18:K:224:LYS:O	18:K:228:ASN:N	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:394:ALA:O	18:K:398:ASN:N	2.52	0.43
19:L:387:ASN:N	19:L:390:ASP:HB2	2.33	0.43
21:N:117:TYR:HB2	21:N:161:TYR:CD2	2.54	0.43
21:N:123:PHE:N	21:N:123:PHE:CD1	2.86	0.43
21:N:325:PHE:CD2	29:V:185:ILE:HG12	2.54	0.43
21:N:340:HIS:O	21:N:374:ILE:HA	2.19	0.43
21:N:559:TYR:O	21:N:594:VAL:HA	2.19	0.43
21:N:591:LEU:C	21:N:593:PHE:H	2.26	0.43
21:N:692:GLU:HB2	21:N:694:LEU:HB2	2.00	0.43
21:N:710:GLY:O	21:N:712:ASN:N	2.52	0.43
21:N:769:PRO:HB3	21:N:914:VAL:O	2.18	0.43
22:O:7:ILE:HA	22:O:11:LEU:H	1.84	0.43
22:O:223:LEU:HD23	22:O:223:LEU:HA	1.88	0.43
22:O:242:ILE:HG13	22:O:243:VAL:H	1.83	0.43
22:O:287:LEU:O	22:O:290:LYS:N	2.52	0.43
22:O:331:ALA:CB	22:O:337:LEU:HB2	2.48	0.43
22:O:382:LYS:CD	22:O:383:LYS:HZ2	2.24	0.43
23:P:42:LEU:CD1	23:P:59:LEU:HB2	2.49	0.43
23:P:311:TRP:HH2	23:P:341:LEU:HB2	1.84	0.43
24:Q:269:LYS:HB2	24:Q:278:VAL:HG22	2.00	0.43
25:R:317:ILE:HA	25:R:323:ASN:OD1	2.18	0.43
26:S:180:ASN:OD1	26:S:182:LYS:HB3	2.18	0.43
26:S:438:HIS:CD2	27:T:197:TYR:HH	2.34	0.43
27:T:34:LEU:O	27:T:38:ASN:N	2.52	0.43
27:T:265:ASP:O	27:T:268:ILE:HB	2.19	0.43
28:U:140:ILE:O	28:U:152:LYS:CG	2.67	0.43
28:U:297:GLN:O	28:U:301:ILE:HG13	2.19	0.43
31:X:10:PHE:HD2	31:X:35:ILE:H	1.63	0.43
31:X:22:ARG:NH1	31:X:98:PHE:CZ	2.87	0.43
31:X:27:ILE:HG23	31:X:59:ARG:NH2	2.34	0.43
32:Y:72:ASP:CG	32:Y:73:PHE:H	2.24	0.43
33:Z:413:ASP:HB3	33:Z:899:GLN:HB3	2.01	0.43
33:Z:506:LEU:HD13	33:Z:542:ILE:HD13	2.01	0.43
33:Z:563:VAL:HG11	33:Z:591:ILE:HG21	2.00	0.43
33:Z:585:LEU:HG	33:Z:603:VAL:HG21	2.00	0.43
8:a:20:SER:OG	8:a:22:GLU:OE1	2.34	0.43
8:a:24:ARG:HH21	8:a:29:GLU:CD	2.26	0.43
8:a:68:THR:HG21	14:g:159:GLY:HA3	2.00	0.43
8:a:84:ASN:O	8:a:140:ILE:N	2.35	0.43
8:a:125:SER:O	8:a:128:TYR:N	2.51	0.43
9:b:85:LEU:HD23	9:b:85:LEU:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:175:LEU:HD21	11:d:198:SER:HB3	2.00	0.43
12:e:46:VAL:O	12:e:221:CYS:HA	2.19	0.43
12:e:232:ASP:OD1	12:e:235:LYS:HB3	2.18	0.43
3:h:38:ARG:HD2	3:h:187:SER:O	2.19	0.43
3:h:67:SER:O	3:h:70:ASP:HB2	2.18	0.43
3:h:121:TYR:CE2	3:h:123:ASP:HA	2.54	0.43
5:j:4:PRO:HG2	5:j:104:PHE:CE1	2.54	0.43
5:j:109:VAL:HB	5:j:122:ALA:HB3	2.01	0.43
6:k:122:LEU:HA	6:k:122:LEU:HD23	1.82	0.43
6:k:160:LEU:O	6:k:163:LEU:HB3	2.19	0.43
7:l:243:ASP:OD1	7:l:244:ALA:N	2.52	0.43
1:1:89:ASN:CG	13:f:93:ASN:HD21	2.26	0.43
1:1:93:TRP:O	1:1:94:TYR:C	2.62	0.43
2:2:136:ARG:HB3	2:2:141:ASN:O	2.18	0.43
3:3:31:VAL:N	3:3:197:LEU:O	2.50	0.43
3:3:122:ASP:N	3:3:126:LYS:O	2.44	0.43
3:3:139:HIS:CE1	2:9:94:GLN:HE21	2.36	0.43
3:3:194:MET:HB2	3:3:205:LEU:HD12	2.00	0.43
4:4:115:HIS:O	4:4:118:LYS:HB3	2.19	0.43
4:4:239:THR:HG21	5:5:164:PHE:CZ	2.53	0.43
5:5:49:VAL:HG22	5:5:84:PRO:HG3	2.01	0.43
5:5:124:PHE:HE1	5:5:130:ILE:HG23	1.84	0.43
5:5:155:GLU:O	5:5:158:LEU:HG	2.19	0.43
6:6:2:ASP:HB3	6:6:18:SER:OG	2.19	0.43
6:6:109:LYS:NZ	6:6:186:LYS:CA	2.82	0.43
7:7:94:ARG:HH12	7:7:244:ALA:C	2.27	0.43
7:7:112:ILE:HD12	7:7:116:LEU:HB3	2.01	0.43
7:7:284:ASN:O	5:j:39:LYS:NZ	2.46	0.43
1:8:87:PHE:O	1:8:90:SER:HB3	2.19	0.43
1:8:225:ILE:HD13	1:8:232:ARG:HE	1.83	0.43
8:A:105:ARG:O	8:A:109:GLY:N	2.49	0.43
8:A:125:SER:O	8:A:128:TYR:N	2.51	0.43
8:A:206:ALA:O	8:A:210:MET:N	2.38	0.43
9:B:1:MET:HG2	9:B:2:THR:N	2.23	0.43
9:B:134:LEU:HA	9:B:134:LEU:HD23	1.84	0.43
9:B:218:ASN:HB3	9:B:220:ASP:OD1	2.18	0.43
10:C:39:MET:N	10:C:148:LEU:HD22	2.33	0.43
11:D:18:PHE:HA	11:D:21:GLU:OE1	2.19	0.43
11:D:29:ARG:CZ	11:D:29:ARG:HB2	2.49	0.43
12:E:51:GLU:CG	12:E:53:ARG:HB2	2.48	0.43
12:E:67:ILE:HG22	12:E:228:PHE:HZ	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:E:201:LEU:HD21	12:E:243:LEU:CD2	2.38	0.43
13:F:187:ASP:O	13:F:191:LYS:N	2.33	0.43
13:F:218:LYS:HG2	13:F:219:ASP:OD1	2.18	0.43
13:F:221:PRO:O	13:F:223:THR:HG23	2.18	0.43
14:G:43:ASN:OD1	14:G:44:ASP:N	2.41	0.43
15:H:144:LYS:NZ	15:H:155:PHE:CD2	2.86	0.43
15:H:217:GLN:C	15:H:221:LEU:HG	2.44	0.43
15:H:217:GLN:HG3	15:H:375:VAL:HG11	2.00	0.43
15:H:226:GLU:HA	15:H:267:THR:CG2	2.48	0.43
15:H:226:GLU:HB2	15:H:263:VAL:HG13	2.01	0.43
16:I:117:HIS:ND1	16:I:131:SER:OG	2.47	0.43
17:J:170:HIS:NE2	17:J:172:GLU:HB3	2.33	0.43
18:K:123:LEU:HB3	18:K:126:LEU:H	1.84	0.43
18:K:123:LEU:HD22	18:K:125:THR:HB	2.01	0.43
19:L:70:TYR:HB3	20:M:8:ASP:HB3	2.01	0.43
19:L:115:GLU:N	19:L:137:ARG:HH21	2.15	0.43
19:L:245:PHE:HA	19:L:279:PHE:HB3	2.01	0.43
19:L:403:ILE:HG23	20:M:203:ARG:CD	2.41	0.43
20:M:22:ILE:O	20:M:25:LEU:N	2.52	0.43
20:M:172:VAL:HG11	20:M:273:LYS:HE3	2.01	0.43
20:M:277:ILE:HA	20:M:322:LYS:O	2.19	0.43
21:N:111:GLN:N	21:N:111:GLN:OE1	2.35	0.43
21:N:144:CYS:HB3	21:N:153:ALA:HB2	2.01	0.43
21:N:308:ASN:CB	21:N:711:ARG:HH11	2.26	0.43
21:N:543:ASP:OD1	21:N:543:ASP:N	2.51	0.43
22:O:14:LEU:O	30:W:18:ASN:CG	2.62	0.43
22:O:86:LEU:HA	22:O:86:LEU:HD23	1.77	0.43
22:O:226:LYS:HG3	22:O:227:ILE:N	2.34	0.43
22:O:236:HIS:C	22:O:238:ILE:H	2.23	0.43
22:O:266:PHE:CE2	22:O:274:ILE:HG12	2.53	0.43
22:O:315:LYS:HG2	22:O:320:PRO:HA	2.01	0.43
23:P:5:ALA:N	23:P:52:LEU:HD22	2.34	0.43
23:P:79:LEU:HD13	23:P:97:ILE:HG12	2.00	0.43
23:P:112:LEU:HD22	23:P:115:ARG:NH2	2.33	0.43
23:P:187:SER:HA	23:P:190:LYS:HB3	2.01	0.43
23:P:274:GLY:C	23:P:277:GLN:HB3	2.43	0.43
25:R:25:GLU:O	25:R:29:LYS:N	2.32	0.43
25:R:71:LEU:HD11	25:R:82:ASP:HB3	2.00	0.43
25:R:79:LEU:HB2	25:R:93:LYS:CE	2.48	0.43
25:R:210:TYR:O	25:R:214:TYR:N	2.32	0.43
25:R:271:ILE:HG23	25:R:272:ASP:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:281:SER:C	25:R:284:ALA:H	2.26	0.43
25:R:382:ASP:CG	25:R:385:ASN:N	2.75	0.43
26:S:215:MET:SD	26:S:218:LEU:HD12	2.59	0.43
26:S:278:LYS:HA	26:S:281:ALA:HB2	1.99	0.43
26:S:338:MET:HA	26:S:340:LYS:N	2.34	0.43
26:S:389:LYS:HD2	26:S:426:ALA:HA	2.01	0.43
26:S:394:ILE:O	26:S:396:SER:HB2	2.19	0.43
27:T:215:LYS:HG2	27:T:218:GLU:OE1	2.19	0.43
28:U:55:PRO:HD2	28:U:72:TYR:CE2	2.54	0.43
29:V:249:GLU:HA	29:V:252:SER:HB2	2.00	0.43
29:V:294:SER:O	29:V:297:THR:OG1	2.34	0.43
30:W:49:VAL:N	30:W:71:LYS:NZ	2.52	0.43
33:Z:324:GLU:OE2	33:Z:472:LEU:HD11	2.19	0.43
33:Z:363:ASP:OD2	33:Z:394:TYR:HB3	2.18	0.43
33:Z:394:TYR:CE2	33:Z:858:GLY:HA2	2.53	0.43
33:Z:761:PHE:CZ	33:Z:783:VAL:HG11	2.54	0.43
33:Z:914:LEU:HD12	33:Z:960:GLY:H	1.84	0.43
8:a:131:ARG:CZ	8:a:133:TYR:HE1	2.32	0.43
9:b:243:ILE:C	9:b:247:LEU:HG	2.44	0.43
10:c:110:ILE:HD11	6:k:71:GLU:HG3	2.01	0.43
10:c:208:TYR:CZ	10:c:236:LYS:HD2	2.54	0.43
11:d:41:CYS:SG	11:d:188:VAL:HG22	2.58	0.43
11:d:180:ASP:CG	11:d:183:GLU:H	2.15	0.43
11:d:226:SER:O	11:d:229:ILE:HB	2.19	0.43
13:f:123:TYR:CG	13:f:124:GLY:N	2.87	0.43
13:f:228:GLU:HA	13:f:231:ALA:HB2	2.01	0.43
3:h:98:ALA:HA	3:h:101:PHE:HD2	1.84	0.43
3:h:191:VAL:HA	3:h:212:TYR:OH	2.17	0.43
4:i:44:ALA:HA	4:i:203:ASP:O	2.19	0.43
5:j:52:GLY:N	5:j:108:VAL:O	2.47	0.43
6:k:41:HIS:CD2	6:k:107:TYR:HB3	2.53	0.43
6:k:117:TYR:CE2	6:k:127:GLU:HB2	2.54	0.43
6:k:140:THR:HG23	6:k:168:LEU:HD21	2.00	0.43
7:l:76:THR:CA	7:l:108:LYS:NZ	2.82	0.43
7:l:82:ARG:HB3	7:l:200:ASP:HA	1.99	0.43
7:l:112:ILE:HD12	7:l:116:LEU:HB3	2.01	0.43
7:l:158:LEU:HA	7:l:161:LEU:HB3	2.00	0.43
1:1:35:ALA:HB1	1:1:139:GLY:C	2.43	0.43
1:1:117:TYR:CE2	7:l:129:PHE:CD1	3.07	0.43
1:1:200:ILE:HD13	1:1:234:GLU:OE2	2.18	0.43
2:2:50:ASP:CG	2:2:201:THR:O	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:37:SER:OG	3:3:191:VAL:N	2.37	0.43
4:4:44:ALA:HA	4:4:203:ASP:O	2.19	0.43
4:4:137:SER:O	4:4:138:HIS:ND1	2.52	0.43
4:4:178:GLU:HG3	4:4:181:ILE:HD12	2.01	0.43
5:5:69:TYR:OH	10:C:93:ILE:HG23	2.19	0.43
6:6:20:ALA:HA	6:6:30:ASP:HA	2.00	0.43
7:7:87:ILE:HD11	7:7:186:THR:N	2.33	0.43
7:7:130:TRP:NE1	1:8:117:TYR:OH	2.52	0.43
7:7:141:HIS:HD2	7:7:149:ILE:HB	1.83	0.43
7:7:243:ASP:OD1	7:7:244:ALA:N	2.52	0.43
7:7:250:VAL:O	7:7:251:ASN:ND2	2.52	0.43
2:9:60:LEU:HD21	2:9:67:LEU:HB3	2.00	0.43
2:9:136:ARG:HB3	2:9:142:PRO:HA	2.01	0.43
2:9:136:ARG:HB3	2:9:141:ASN:O	2.18	0.43
8:A:24:ARG:HH21	8:A:29:GLU:CD	2.26	0.43
9:B:51:SER:OG	9:B:53:SER:O	2.36	0.43
9:B:181:ASP:OD1	9:B:181:ASP:N	2.52	0.43
10:C:124:GLN:HG3	11:D:127:ARG:CZ	2.49	0.43
11:D:31:THR:HG21	11:D:49:ARG:CB	2.48	0.43
11:D:160:SER:HB2	12:E:58:LEU:CA	2.49	0.43
13:F:227:GLY:O	13:F:230:VAL:HG22	2.19	0.43
14:G:121:GLN:O	14:G:125:LEU:HG	2.18	0.43
15:H:173:ARG:O	15:H:174:VAL:C	2.61	0.43
15:H:224:VAL:HG21	15:H:373:ARG:HG2	2.01	0.43
16:I:172:LYS:HD3	16:I:246:ARG:HD3	2.01	0.43
17:J:41:VAL:HG13	18:K:68:ILE:HD12	2.00	0.43
17:J:154:THR:HA	17:J:157:ILE:HD12	2.00	0.43
17:J:336:ASN:OD1	25:R:203:ASP:HB3	2.19	0.43
19:L:202:LYS:C	19:L:204:PRO:HD3	2.44	0.43
21:N:201:LYS:HA	21:N:204:SER:HB2	2.01	0.43
21:N:239:LEU:HA	21:N:242:PHE:HB2	2.01	0.43
21:N:314:LEU:O	21:N:318:LYS:N	2.39	0.43
21:N:605:ILE:O	21:N:608:LEU:HG	2.18	0.43
21:N:907:ASP:OD1	21:N:910:PRO:HG3	2.19	0.43
22:O:58:ARG:CB	22:O:61:LEU:HB2	2.48	0.43
22:O:94:GLU:CG	22:O:95:SER:N	2.82	0.43
22:O:169:ASN:O	22:O:173:SER:OG	2.35	0.43
22:O:196:LEU:HD13	22:O:210:ARG:HH12	1.84	0.43
22:O:207:LEU:O	22:O:210:ARG:N	2.52	0.43
22:O:218:SER:O	22:O:221:ALA:HB3	2.19	0.43
22:O:303:LYS:O	22:O:304:ASN:OD1	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:48:GLN:HA	23:P:86:HIS:CB	2.48	0.43
23:P:59:LEU:O	23:P:62:ILE:HB	2.19	0.43
23:P:66:LEU:CB	23:P:75:LEU:HD13	2.49	0.43
23:P:118:VAL:O	23:P:125:VAL:HG21	2.19	0.43
23:P:143:LEU:O	23:P:147:LYS:HG3	2.19	0.43
23:P:394:ASN:O	23:P:398:LYS:N	2.52	0.43
24:Q:62:GLY:HA2	24:Q:65:TYR:HD2	1.83	0.43
25:R:36:SER:HA	25:R:42:GLN:CG	2.49	0.43
25:R:96:GLN:C	25:R:100:ASN:HD22	2.27	0.43
25:R:141:TYR:CD1	25:R:144:ILE:HD12	2.54	0.43
25:R:192:GLU:OE2	25:R:210:TYR:CZ	2.71	0.43
25:R:216:ILE:HG22	25:R:321:TYR:HE2	1.83	0.43
25:R:331:ARG:C	25:R:334:ARG:HB3	2.44	0.43
26:S:12:SER:OG	26:S:13:SER:N	2.52	0.43
26:S:24:LYS:C	26:S:26:ALA:N	2.77	0.43
26:S:344:PRO:HG3	26:S:367:TYR:CE1	2.54	0.43
26:S:368:LYS:HE3	27:T:133:ILE:HD13	2.00	0.43
26:S:390:THR:CG2	26:S:394:ILE:CD1	2.96	0.43
26:S:459:GLN:O	26:S:463:GLU:N	2.33	0.43
27:T:55:LEU:HA	27:T:58:THR:CB	2.46	0.43
27:T:264:MET:HA	27:T:267:ALA:HB3	2.01	0.43
27:T:265:ASP:CG	28:U:189:ARG:NH2	2.67	0.43
28:U:28:LYS:HE2	28:U:28:LYS:HB2	1.85	0.43
28:U:165:GLU:N	29:V:42:ARG:NH1	2.61	0.43
29:V:163:ALA:HB3	29:V:165:ILE:N	2.33	0.43
29:V:282:GLU:H	29:V:282:GLU:HG3	1.54	0.43
30:W:67:ALA:CB	30:W:68:GLU:HA	2.48	0.43
30:W:126:ILE:HG22	30:W:130:LYS:HE3	2.00	0.43
31:X:38:ASN:CA	31:X:47:ASP:H	2.32	0.43
31:X:38:ASN:H	31:X:46:TRP:HA	1.83	0.43
33:Z:138:ARG:NE	33:Z:158:ALA:HB2	2.33	0.43
33:Z:611:THR:OG1	33:Z:613:ASP:OD1	2.26	0.43
8:a:104:PHE:CG	8:a:108:TYR:HD2	2.37	0.43
10:c:39:MET:N	10:c:148:LEU:HD22	2.33	0.43
10:c:124:GLN:HG3	11:d:127:ARG:CZ	2.49	0.43
11:d:56:ASP:OD2	11:d:58:ARG:CZ	2.65	0.43
12:e:78:MET:HA	12:e:142:LEU:HD23	2.01	0.43
12:e:200:VAL:O	12:e:204:LEU:N	2.35	0.43
13:f:6:TYR:HB3	13:f:20:PHE:HE1	1.84	0.43
13:f:26:LEU:O	13:f:29:ILE:HB	2.19	0.43
13:f:33:SER:O	13:f:162:GLY:HA3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:237:GLN:HG3	14:g:241:ASP:OD2	2.19	0.43
3:h:47:ASN:OD1	3:h:47:ASN:C	2.62	0.43
3:h:64:ARG:HD2	3:h:71:THR:HB	2.00	0.43
3:h:101:PHE:O	3:h:102:LYS:C	2.59	0.43
4:i:37:PHE:HD2	4:i:38:ASN:OD1	2.02	0.43
4:i:97:LEU:C	4:i:100:SER:H	2.26	0.43
4:i:191:GLY:O	4:i:198:SER:HB2	2.19	0.43
4:i:236:ARG:NH1	5:j:161:GLU:HB2	2.34	0.43
6:k:8:ARG:HG2	6:k:129:PRO:O	2.19	0.43
6:k:60:ILE:HG23	6:k:83:PHE:HE1	1.84	0.43
6:k:162:LYS:HD2	6:k:198:GLN:HB3	2.00	0.43
6:k:179:VAL:O	6:k:196:GLN:NE2	2.52	0.43
7:l:152:ALA:O	7:l:155:SER:OG	2.37	0.43
1:1:49:ILE:O	1:1:55:ASN:ND2	2.52	0.42
1:1:61:LYS:HZ3	1:1:74:ASN:CG	2.26	0.42
1:1:223:ILE:N	1:1:234:GLU:O	2.35	0.42
2:2:42:THR:CG2	2:2:58:ASP:CG	2.92	0.42
4:4:242:LEU:HB2	5:5:199:TYR:HB2	2.01	0.42
6:6:60:ILE:HG23	6:6:83:PHE:HE1	1.84	0.42
6:6:108:ASP:N	6:6:113:LYS:O	2.52	0.42
6:6:160:LEU:O	6:6:163:LEU:HB3	2.19	0.42
6:6:193:ASP:N	6:6:193:ASP:OD1	2.52	0.42
7:7:88:ILE:HA	7:7:253:TYR:O	2.19	0.42
7:7:110:ILE:HD11	7:7:120:MET:HB2	2.01	0.42
2:9:261:TYR:CE2	3:h:72:GLN:HB3	2.53	0.42
8:A:131:ARG:HH11	9:B:127:VAL:HG13	1.77	0.42
9:B:35:LEU:C	9:B:35:LEU:HD12	2.44	0.42
9:B:98:LYS:NZ	9:B:104:TYR:CZ	2.87	0.42
10:C:59:GLN:CD	10:C:232:PRO:HB3	2.44	0.42
10:C:60:ASP:OD1	10:C:232:PRO:HG2	2.19	0.42
10:C:98:TYR:CE1	10:C:106:ILE:HA	2.53	0.42
10:C:195:LYS:HZ3	10:C:244:ILE:N	2.17	0.42
11:D:138:PHE:HB3	11:D:142:ASP:O	2.19	0.42
14:G:33:ASN:HA	14:G:167:LYS:HZ1	1.82	0.42
14:G:122:ALA:O	14:G:125:LEU:N	2.40	0.42
15:H:317:ALA:N	15:H:360:THR:O	2.52	0.42
15:H:363:PRO:O	15:H:367:ARG:HG3	2.19	0.42
16:I:112:ILE:H	16:I:143:PRO:HG3	1.84	0.42
16:I:196:GLU:HA	16:I:200:LEU:CB	2.48	0.42
17:J:109:ALA:O	17:J:110:SER:OG	2.34	0.42
17:J:153:LEU:O	17:J:316:PHE:CZ	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:165:GLU:CD	17:J:205:HIS:HD2	2.27	0.42
18:K:74:HIS:CG	21:N:576:VAL:HG12	2.54	0.42
18:K:353:PHE:HE1	18:K:383:ILE:HG23	1.84	0.42
19:L:183:ILE:HG22	19:L:364:HIS:HE1	1.80	0.42
20:M:145:LEU:HB2	20:M:159:LEU:O	2.19	0.42
20:M:383:THR:CG2	20:M:419:ILE:HG12	2.49	0.42
21:N:162:ARG:HB2	21:N:165:ILE:HD12	2.01	0.42
21:N:332:VAL:C	21:N:334:VAL:N	2.75	0.42
21:N:436:ASP:HB2	21:N:439:VAL:CG2	2.49	0.42
21:N:495:PRO:HB2	21:N:499:HIS:HE1	1.83	0.42
21:N:591:LEU:HB3	21:N:595:LEU:CD1	2.48	0.42
21:N:634:LEU:O	21:N:638:ILE:HG12	2.19	0.42
21:N:717:LEU:HD13	21:N:726:ASP:O	2.19	0.42
22:O:41:LEU:HD11	22:O:81:TYR:CB	2.48	0.42
22:O:140:LYS:CA	22:O:181:PHE:CZ	2.95	0.42
22:O:383:LYS:HE2	27:T:262:LYS:HE2	2.01	0.42
23:P:34:SER:HA	23:P:37:ASP:CG	2.44	0.42
23:P:329:PHE:CZ	23:P:336:HIS:HB3	2.54	0.42
23:P:406:LYS:C	23:P:410:GLN:HE22	2.26	0.42
24:Q:274:LEU:O	24:Q:278:VAL:HG23	2.19	0.42
25:R:213:TYR:OH	25:R:238:PHE:HE2	2.00	0.42
25:R:235:LEU:HB2	25:R:246:TYR:HE1	1.83	0.42
25:R:256:THR:C	25:R:260:THR:HG1	2.26	0.42
25:R:349:SER:O	25:R:353:MET:N	2.38	0.42
25:R:375:LYS:C	25:R:377:LEU:N	2.76	0.42
26:S:215:MET:HE2	26:S:215:MET:HB2	1.86	0.42
27:T:66:ALA:O	27:T:69:SER:OG	2.33	0.42
28:U:83:ILE:HD11	29:V:91:MET:HE1	2.00	0.42
29:V:24:LYS:O	29:V:61:TYR:CD1	2.72	0.42
29:V:208:LYS:CA	29:V:211:LYS:NZ	2.72	0.42
29:V:259:LYS:O	29:V:261:LEU:N	2.52	0.42
32:Y:72:ASP:O	32:Y:75:ASN:HB2	2.19	0.42
33:Z:139:LEU:CD2	33:Z:161:ILE:HG21	2.49	0.42
33:Z:356:ASP:OD2	33:Z:466:GLU:OE2	2.36	0.42
33:Z:453:LEU:HD21	33:Z:902:TYR:HB2	2.01	0.42
33:Z:847:ILE:O	33:Z:850:LEU:HB2	2.19	0.42
33:Z:916:LEU:HB2	33:Z:982:ILE:HA	2.01	0.42
33:Z:967:THR:HG23	33:Z:978:GLU:HG3	2.01	0.42
8:a:133:TYR:N	8:a:133:TYR:CD1	2.86	0.42
10:c:102:TYR:CD1	6:k:79:ALA:HB1	2.53	0.42
10:c:213:PHE:CE2	10:c:215:THR:HG23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:d:18:PHE:HA	11:d:21:GLU:OE1	2.19	0.42
11:d:159:TRP:CZ3	12:e:58:LEU:HB2	2.54	0.42
12:e:24:VAL:O	12:e:28:LEU:HD13	2.19	0.42
12:e:74:ILE:CG1	12:e:109:VAL:HG22	2.47	0.42
13:f:130:VAL:C	13:f:149:PRO:HG3	2.43	0.42
13:f:138:ASP:OD1	13:f:140:SER:OG	2.37	0.42
14:g:9:ASP:HB2	14:g:26:TYR:HE2	1.83	0.42
14:g:190:ARG:O	14:g:194:LYS:HG3	2.19	0.42
4:i:41:VAL:HG11	4:i:130:ALA:HB1	2.01	0.42
4:i:138:HIS:CB	4:i:140:PHE:HE2	2.27	0.42
4:i:178:GLU:HG3	4:i:181:ILE:HD12	2.01	0.42
6:k:46:PHE:HA	6:k:102:VAL:HG12	2.01	0.42
1:1:75:GLY:HA3	1:1:126:VAL:HG12	2.01	0.42
2:2:98:ARG:NH2	14:g:101:LYS:HE2	2.34	0.42
3:3:82:LEU:O	3:3:86:THR:N	2.23	0.42
3:3:98:ALA:HA	3:3:101:PHE:HD2	1.84	0.42
4:4:34:GLY:HA3	4:4:43:ILE:HG22	1.99	0.42
4:4:41:VAL:HG11	4:4:130:ALA:HB1	2.01	0.42
4:4:135:THR:HG1	4:4:138:HIS:CD2	2.36	0.42
4:4:191:GLY:O	4:4:198:SER:HB2	2.19	0.42
5:5:124:PHE:CE1	5:5:130:ILE:HG23	2.55	0.42
7:7:165:TYR:HB2	7:7:170:LEU:CD1	2.50	0.42
7:7:230:TYR:HD1	7:7:233:LYS:HD3	1.84	0.42
1:8:49:ILE:O	1:8:55:ASN:ND2	2.52	0.42
1:8:175:PHE:O	1:8:178:GLN:HB2	2.19	0.42
2:9:197:ASP:OD1	2:9:197:ASP:N	2.50	0.42
9:B:123:GLN:HB2	10:C:129:ARG:HH21	1.80	0.42
10:C:14:SER:HG	10:C:18:ARG:HB2	1.84	0.42
10:C:179:ASP:HB3	10:C:192:LEU:HD11	2.02	0.42
11:D:37:LYS:CB	11:D:42:VAL:HG22	2.50	0.42
11:D:56:ASP:O	11:D:60:THR:OG1	2.23	0.42
11:D:68:ASP:O	11:D:71:VAL:N	2.43	0.42
12:E:46:VAL:O	12:E:221:CYS:HA	2.19	0.42
12:E:156:PHE:HA	12:E:165:TYR:O	2.20	0.42
12:E:236:THR:HG22	12:E:240:ILE:CD1	2.48	0.42
13:F:7:ASP:O	13:F:21:GLN:HG2	2.19	0.42
13:F:7:ASP:HB2	13:F:20:PHE:HB2	2.01	0.42
13:F:169:LYS:HB2	13:F:169:LYS:HE3	1.74	0.42
14:G:11:SER:HB2	14:G:14:VAL:HG23	2.00	0.42
14:G:126:TYR:CB	14:G:129:VAL:HG22	2.49	0.42
15:H:292:ARG:O	15:H:296:GLU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:293:GLU:HA	15:H:296:GLU:HB2	2.00	0.42
16:I:145:CYS:O	16:I:147:VAL:HG13	2.19	0.42
16:I:148:LEU:CG	16:I:160:LEU:HB2	2.47	0.42
17:J:71:TYR:CD2	17:J:115:LEU:HD23	2.49	0.42
17:J:150:VAL:HG13	17:J:197:LEU:HD22	2.01	0.42
17:J:273:LEU:HD21	17:J:304:LEU:HB2	2.01	0.42
17:J:274:GLU:O	17:J:278:GLN:N	2.51	0.42
18:K:49:PHE:CD1	21:N:151:LYS:HB3	2.54	0.42
18:K:366:ALA:HB2	18:K:402:ILE:O	2.19	0.42
18:K:400:TYR:HB3	23:P:201:ARG:NH2	2.34	0.42
19:L:132:ARG:HG2	19:L:133:ASN:ND2	2.30	0.42
19:L:171:THR:HG22	19:L:173:PHE:CE2	2.54	0.42
20:M:162:GLU:OE2	20:M:163:PHE:HD2	2.01	0.42
21:N:63:LEU:O	21:N:66:SER:HB2	2.19	0.42
21:N:83:LEU:HB3	21:N:132:LYS:HZ2	1.85	0.42
21:N:263:SER:O	21:N:722:THR:HG21	2.18	0.42
21:N:293:LEU:HD13	21:N:379:LEU:CD1	2.49	0.42
21:N:324:LYS:HE2	21:N:693:GLY:HA3	2.00	0.42
21:N:686:ILE:HA	21:N:696:LYS:HG2	2.01	0.42
21:N:739:PHE:CG	21:N:740:TRP:N	2.87	0.42
21:N:894:ARG:HE	21:N:897:LYS:HG3	1.84	0.42
22:O:1:MET:N	22:O:37:LEU:HD12	2.34	0.42
22:O:151:ASP:O	22:O:154:GLU:HB3	2.19	0.42
22:O:266:PHE:CE2	22:O:270:ILE:HG22	2.54	0.42
22:O:287:LEU:O	22:O:291:ILE:HG12	2.19	0.42
22:O:338:LYS:HB2	22:O:351:SER:C	2.44	0.42
22:O:344:VAL:HG22	23:P:361:THR:HG22	2.00	0.42
22:O:382:LYS:NZ	22:O:383:LYS:CD	2.81	0.42
23:P:88:GLN:HB2	23:P:92:SER:OG	2.19	0.42
23:P:235:LEU:HG	23:P:271:SER:CB	2.49	0.42
23:P:410:GLN:O	23:P:414:GLU:N	2.39	0.42
23:P:441:GLY:O	28:U:213:LYS:NZ	2.35	0.42
24:Q:7:LYS:HE3	24:Q:7:LYS:HB2	1.73	0.42
24:Q:75:ARG:HD3	24:Q:113:ASP:OD1	2.19	0.42
24:Q:104:PHE:O	24:Q:109:ASP:HB2	2.19	0.42
24:Q:117:VAL:HA	24:Q:120:LYS:CD	2.48	0.42
24:Q:414:GLU:O	24:Q:418:GLN:HG2	2.19	0.42
25:R:28:GLU:O	25:R:32:LEU:HG	2.19	0.42
25:R:54:ILE:HD13	25:R:63:TYR:CZ	2.53	0.42
25:R:106:ASN:O	25:R:110:ILE:HG13	2.19	0.42
25:R:109:LYS:HD3	25:R:140:TYR:CG	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:R:240:SER:HG	25:R:244:THR:N	2.14	0.42
25:R:258:LEU:HD11	25:R:293:THR:HG21	2.00	0.42
25:R:334:ARG:NH2	25:R:364:LEU:HD12	2.34	0.42
26:S:185:PHE:CE2	26:S:239:ARG:NH2	2.87	0.42
26:S:259:TYR:O	26:S:261:HIS:HA	2.20	0.42
26:S:330:LEU:CB	26:S:333:PHE:HB2	2.49	0.42
27:T:30:ILE:HA	27:T:33:GLU:CG	2.49	0.42
27:T:257:THR:HA	27:T:260:ILE:HB	2.01	0.42
29:V:263:GLU:O	29:V:266:LEU:HB3	2.19	0.42
31:X:42:GLU:HG3	31:X:43:LEU:N	2.34	0.42
31:X:85:ARG:H	31:X:116:ALA:HB3	1.84	0.42
33:Z:165:TYR:CE1	33:Z:201:LEU:HA	2.54	0.42
33:Z:374:LEU:CD1	33:Z:379:GLN:HB3	2.48	0.42
33:Z:377:ALA:HA	33:Z:380:ASN:HB2	2.01	0.42
33:Z:824:ASN:H	33:Z:831:LEU:HD12	1.85	0.42
8:a:113:PRO:O	8:a:116:VAL:HB	2.19	0.42
9:b:48:GLU:HG3	9:b:209:ILE:HD13	2.00	0.42
9:b:51:SER:OG	9:b:53:SER:O	2.36	0.42
9:b:66:LEU:HD12	9:b:235:PHE:HB3	2.01	0.42
9:b:70:ASP:O	9:b:214:ILE:HD12	2.19	0.42
9:b:101:TYR:O	5:j:89:GLN:HG3	2.20	0.42
9:b:172:LYS:HA	9:b:175:LEU:HB2	2.01	0.42
9:b:218:ASN:O	9:b:233:PRO:HD2	2.19	0.42
10:c:36:ILE:N	10:c:47:ALA:O	2.26	0.42
10:c:59:GLN:CD	10:c:232:PRO:HB3	2.44	0.42
11:d:42:VAL:HG23	11:d:138:PHE:HE1	1.82	0.42
11:d:68:ASP:O	11:d:71:VAL:N	2.43	0.42
11:d:169:LYS:HA	11:d:169:LYS:HD2	1.77	0.42
13:f:7:ASP:HA	13:f:20:PHE:HD1	1.85	0.42
13:f:7:ASP:O	13:f:21:GLN:HG2	2.19	0.42
13:f:221:PRO:O	13:f:223:THR:HG23	2.18	0.42
14:g:53:LEU:HD23	14:g:53:LEU:HA	1.63	0.42
14:g:115:ARG:HH21	3:h:89:TYR:HE2	1.67	0.42
14:g:119:TYR:CE2	14:g:132:PHE:CZ	3.08	0.42
14:g:122:ALA:O	14:g:125:LEU:N	2.40	0.42
4:i:46:ASP:CG	4:i:62:LYS:HZ2	2.11	0.42
5:j:202:MET:HE3	5:j:202:MET:HB2	1.89	0.42
6:k:67:TYR:CA	6:k:70:ARG:NH1	2.77	0.42
6:k:109:LYS:NZ	6:k:186:LYS:HA	2.33	0.42
7:l:88:ILE:HA	7:l:253:TYR:O	2.19	0.42
7:l:268:VAL:O	7:l:272:PHE:N	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:32:LEU:HD12	1:1:156:ARG:C	2.45	0.42
1:1:32:LEU:HB3	1:1:207:PHE:HZ	1.85	0.42
2:2:133:MET:O	2:2:137:ARG:N	2.41	0.42
2:2:189:ARG:HA	2:2:192:VAL:O	2.19	0.42
3:3:23:MET:HA	3:3:145:ILE:HA	2.00	0.42
4:4:77:THR:HB	4:4:80:ASP:CG	2.44	0.42
6:6:19:LYS:HB3	6:6:31:SER:HA	2.01	0.42
6:6:80:VAL:O	6:6:83:PHE:HB3	2.20	0.42
7:7:82:ARG:HB3	7:7:200:ASP:HA	1.99	0.42
7:7:119:THR:HG1	7:7:175:MET:N	2.14	0.42
7:7:226:GLU:O	7:7:230:TYR:N	2.41	0.42
1:8:109:ALA:HA	1:8:144:PHE:CZ	2.54	0.42
2:9:50:ASP:CG	2:9:201:THR:O	2.62	0.42
2:9:89:ASP:OD2	2:9:91:SER:OG	2.37	0.42
8:A:16:ILE:HD11	8:A:18:ILE:HD13	2.00	0.42
8:A:133:TYR:N	8:A:133:TYR:CD1	2.86	0.42
9:B:70:ASP:O	9:B:214:ILE:HD12	2.19	0.42
9:B:188:ALA:CA	9:B:191:ILE:HB	2.45	0.42
10:C:33:GLY:C	10:C:65:LYS:HZ1	2.19	0.42
11:D:118:GLN:NE2	12:E:83:ALA:C	2.76	0.42
12:E:22:PHE:O	12:E:26:TYR:N	2.44	0.42
13:F:123:TYR:CG	13:F:124:GLY:N	2.87	0.42
14:G:224:THR:OG1	14:G:227:LEU:O	2.23	0.42
15:H:449:LYS:O	15:H:453:GLY:N	2.42	0.42
16:I:95:GLN:O	16:I:99:ILE:HG13	2.19	0.42
16:I:113:ILE:HG13	16:I:129:TYR:HE1	1.83	0.42
16:I:277:SER:O	16:I:322:VAL:HG13	2.19	0.42
17:J:40:ASN:O	17:J:43:ARG:HB2	2.19	0.42
17:J:113:VAL:HA	17:J:126:LEU:N	2.35	0.42
17:J:115:LEU:HD11	17:J:120:TYR:C	2.45	0.42
18:K:49:PHE:O	18:K:51:LEU:N	2.52	0.42
18:K:85:GLU:CD	18:K:88:ARG:HB2	2.44	0.42
18:K:226:VAL:HA	18:K:229:SER:OG	2.18	0.42
18:K:371:LEU:HD21	18:K:404:GLN:NE2	2.34	0.42
19:L:109:MET:CB	19:L:120:LYS:H	2.30	0.42
19:L:297:ALA:O	19:L:300:GLU:HB2	2.19	0.42
19:L:360:ILE:HG21	19:L:388:GLY:HA2	2.01	0.42
20:M:75:LEU:HA	20:M:76:PRO:HA	1.75	0.42
20:M:148:VAL:HG22	20:M:155:ILE:HG12	2.01	0.42
20:M:403:LEU:C	20:M:406:GLY:H	2.27	0.42
21:N:204:SER:C	21:N:208:ARG:NH1	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:246:LYS:HZ2	21:N:280:GLN:CB	2.32	0.42
21:N:399:PHE:CB	21:N:441:VAL:HG11	2.50	0.42
21:N:602:VAL:HA	21:N:605:ILE:HB	2.00	0.42
21:N:664:LEU:HD23	21:N:667:GLN:OE1	2.20	0.42
21:N:766:GLN:N	21:N:766:GLN:OE1	2.52	0.42
21:N:773:MET:HB3	21:N:884:PHE:CA	2.41	0.42
22:O:44:SER:HA	22:O:48:PHE:CE1	2.53	0.42
22:O:58:ARG:CG	22:O:61:LEU:HB2	2.49	0.42
22:O:83:LEU:HD23	22:O:98:TYR:HE1	1.82	0.42
22:O:301:PHE:CB	22:O:305:ILE:HA	2.48	0.42
22:O:338:LYS:HG3	22:O:352:TRP:O	2.19	0.42
23:P:42:LEU:HD13	23:P:59:LEU:N	2.34	0.42
23:P:46:THR:HA	23:P:50:SER:HA	2.01	0.42
23:P:141:LYS:HD3	23:P:179:PHE:CE2	2.55	0.42
23:P:141:LYS:HG3	23:P:142:ASP:N	2.34	0.42
23:P:210:ASN:HB3	23:P:213:TYR:CD2	2.54	0.42
23:P:263:HIS:HE1	23:P:327:LEU:HG	1.84	0.42
23:P:308:LEU:CD2	23:P:346:ILE:HG12	2.49	0.42
23:P:382:ASP:O	23:P:386:GLN:HG2	2.18	0.42
23:P:393:VAL:HB	24:Q:354:PHE:H	1.81	0.42
24:Q:159:ASN:O	24:Q:162:LEU:HB2	2.19	0.42
24:Q:192:ALA:HA	24:Q:195:LYS:HB3	2.01	0.42
24:Q:413:LEU:CD1	25:R:406:GLN:CD	2.78	0.42
24:Q:430:ALA:HB2	28:U:293:GLU:OE2	2.18	0.42
26:S:182:LYS:H	26:S:232:MET:HE1	1.84	0.42
26:S:256:LYS:HG2	26:S:257:LEU:HG	2.01	0.42
26:S:270:ALA:HB2	26:S:300:ALA:HB2	2.01	0.42
26:S:338:MET:HB2	26:S:343:LEU:HB2	2.01	0.42
26:S:418:THR:O	26:S:422:MET:HG3	2.19	0.42
26:S:471:LEU:HD23	26:S:471:LEU:HA	1.79	0.42
27:T:34:LEU:HB2	27:T:40:LEU:HB2	2.01	0.42
28:U:9:THR:CB	28:U:47:ARG:HA	2.35	0.42
28:U:119:LEU:HD11	28:U:136:ALA:HB1	2.02	0.42
28:U:127:GLN:HA	28:U:133:PRO:CB	2.42	0.42
28:U:169:ILE:HG23	29:V:149:GLY:O	2.19	0.42
29:V:51:GLY:CA	29:V:71:MET:HG2	2.46	0.42
29:V:248:ALA:O	29:V:252:SER:N	2.24	0.42
30:W:4:GLU:HA	30:W:106:GLN:HA	2.01	0.42
30:W:8:LEU:HD11	30:W:113:PHE:CE2	2.54	0.42
30:W:26:PHE:O	30:W:29:GLN:HB2	2.20	0.42
33:Z:228:GLU:HA	33:Z:264:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:452:LEU:HD21	33:Z:477:TYR:HB3	2.00	0.42
33:Z:776:VAL:HB	33:Z:777:PRO:HD3	2.01	0.42
33:Z:788:PRO:CG	33:Z:826:ARG:HB2	2.49	0.42
33:Z:896:LYS:HD2	33:Z:900:LEU:HD11	2.00	0.42
33:Z:923:ILE:O	33:Z:925:VAL:HG12	2.19	0.42
9:b:97:TYR:CG	9:b:105:PRO:HB3	2.53	0.42
9:b:204:PHE:CE2	9:b:247:LEU:HD22	2.54	0.42
10:c:60:ASP:OD1	10:c:232:PRO:HG2	2.19	0.42
10:c:126:GLY:C	10:c:128:LEU:H	2.27	0.42
10:c:165:VAL:HA	10:c:169:THR:HG22	2.01	0.42
11:d:192:VAL:O	11:d:196:VAL:HG23	2.20	0.42
12:e:70:ILE:HA	12:e:93:ARG:HG2	2.00	0.42
14:g:222:SER:OG	14:g:223:GLU:N	2.53	0.42
4:i:77:THR:HB	4:i:80:ASP:CG	2.44	0.42
4:i:115:HIS:O	4:i:118:LYS:HB3	2.19	0.42
5:j:99:ARG:HA	5:j:99:ARG:HD2	1.87	0.42
6:k:80:VAL:O	6:k:83:PHE:HB3	2.20	0.42
1:1:109:ALA:HA	1:1:144:PHE:CZ	2.54	0.42
2:2:127:GLU:HG3	13:f:98:VAL:O	2.19	0.42
3:3:85:TYR:CD1	14:G:103:TYR:CE1	3.07	0.42
3:3:126:LYS:HG2	3:3:127:GLY:H	1.83	0.42
4:4:35:VAL:C	4:4:41:VAL:HG23	2.44	0.42
5:5:149:MET:HG3	5:5:174:ALA:HB2	2.01	0.42
6:6:19:LYS:HE2	6:6:179:VAL:N	2.35	0.42
6:6:171:ARG:NH1	6:k:27:VAL:O	2.49	0.42
1:8:32:LEU:HD12	1:8:156:ARG:C	2.45	0.42
1:8:96:PHE:HB3	13:F:89:ARG:HH12	1.74	0.42
2:9:113:LEU:CB	2:9:116:ALA:HB3	2.46	0.42
8:A:54:ILE:HD12	8:A:225:VAL:HG22	2.01	0.42
8:A:104:PHE:CG	8:A:108:TYR:HD2	2.37	0.42
8:A:180:THR:O	8:A:184:ASN:N	2.26	0.42
9:B:66:LEU:HD12	9:B:235:PHE:HB3	2.01	0.42
9:B:94:HIS:HA	9:B:98:LYS:CB	2.40	0.42
9:B:243:ILE:C	9:B:247:LEU:HG	2.44	0.42
10:C:11:THR:O	11:D:127:ARG:HD3	2.19	0.42
12:E:78:MET:HA	12:E:142:LEU:HD23	2.01	0.42
14:G:18:ASP:CG	14:G:20:ARG:HD3	2.44	0.42
14:G:70:VAL:O	14:G:74:ILE:HB	2.20	0.42
14:G:123:HIS:CE1	14:G:132:PHE:CZ	3.08	0.42
14:G:201:TYR:HE2	14:G:243:ALA:HB3	1.83	0.42
15:H:107:LYS:HA	29:V:75:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:159:LEU:HD23	15:H:159:LEU:HA	1.68	0.42
15:H:238:LEU:HA	20:M:408:SER:O	2.18	0.42
16:I:97:GLU:OE2	16:I:100:ARG:HD3	2.19	0.42
16:I:115:ASP:HB3	16:I:117:HIS:HD2	1.83	0.42
16:I:186:GLY:H	16:I:360:LYS:HB3	1.84	0.42
16:I:320:GLY:HA2	16:I:323:LYS:CE	2.48	0.42
17:J:41:VAL:HG21	18:K:65:GLU:HG2	2.00	0.42
17:J:236:MET:HA	17:J:239:GLU:CD	2.45	0.42
17:J:245:ILE:N	17:J:289:LYS:O	2.52	0.42
17:J:321:VAL:HG22	17:J:347:ALA:O	2.20	0.42
19:L:281:ASP:HA	19:L:326:ALA:HB3	2.01	0.42
20:M:231:LEU:HD12	20:M:349:PHE:CE2	2.54	0.42
20:M:360:ILE:HA	20:M:363:ILE:HD12	2.01	0.42
20:M:401:ILE:CG2	20:M:414:ASP:HA	2.49	0.42
21:N:109:TYR:CD1	21:N:129:ILE:HG21	2.54	0.42
21:N:287:LEU:O	21:N:290:LEU:HB2	2.20	0.42
21:N:372:GLY:HA3	21:N:407:GLY:O	2.20	0.42
21:N:486:GLY:HA3	21:N:523:LEU:HD12	2.00	0.42
21:N:615:ALA:HB1	21:N:652:VAL:CG2	2.49	0.42
22:O:68:LYS:CB	22:O:72:LYS:HB2	2.48	0.42
22:O:310:PHE:CD2	22:O:346:GLU:HA	2.53	0.42
23:P:240:TYR:O	23:P:243:GLU:HB3	2.20	0.42
23:P:279:ASP:C	23:P:281:ILE:N	2.76	0.42
23:P:319:GLU:HA	23:P:323:ASN:H	1.84	0.42
23:P:321:VAL:HA	23:P:324:GLU:O	2.20	0.42
24:Q:378:SER:O	24:Q:379:GLN:C	2.60	0.42
25:R:50:VAL:O	25:R:54:ILE:HG23	2.19	0.42
25:R:80:GLU:CB	25:R:94:PHE:HD2	2.30	0.42
25:R:141:TYR:CD2	25:R:150:ALA:HB2	2.54	0.42
25:R:259:PHE:CE1	25:R:329:PHE:HA	2.54	0.42
25:R:398:ALA:CA	25:R:401:HIS:HB3	2.45	0.42
26:S:236:LEU:HG	26:S:240:ASP:OD2	2.19	0.42
26:S:363:THR:HG23	26:S:367:TYR:CD2	2.54	0.42
27:T:24:GLU:HA	27:T:27:LEU:HD12	2.01	0.42
27:T:140:SER:C	27:T:143:SER:H	2.27	0.42
28:U:92:TRP:CE2	28:U:120:LEU:HA	2.54	0.42
28:U:195:LYS:HD3	29:V:233:LYS:CB	2.50	0.42
29:V:119:SER:O	29:V:123:VAL:HG23	2.19	0.42
30:W:51:LEU:HD12	30:W:52:ILE:H	1.85	0.42
30:W:161:VAL:HB	30:W:169:SER:HG	1.84	0.42
33:Z:208:VAL:HG21	33:Z:231:ASP:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:345:GLU:HB3	33:Z:349:THR:OG1	2.19	0.42
33:Z:449:ALA:HA	33:Z:452:LEU:HD12	2.01	0.42
33:Z:453:LEU:O	33:Z:457:ILE:HG13	2.20	0.42
33:Z:788:PRO:HG3	33:Z:826:ARG:HD2	2.02	0.42
33:Z:806:GLU:HG2	33:Z:809:MET:SD	2.59	0.42
8:a:43:LEU:C	8:a:43:LEU:HD12	2.44	0.42
8:a:54:ILE:CD1	8:a:225:VAL:HG13	2.49	0.42
8:a:115:ASP:CG	4:i:101:ARG:NH2	2.73	0.42
8:a:165:GLY:HA3	9:b:60:THR:HG21	2.01	0.42
10:c:143:ARG:NH1	6:k:73:TYR:CB	2.81	0.42
11:d:70:HIS:CD2	11:d:71:VAL:HG23	2.54	0.42
13:f:157:TYR:OH	14:g:60:VAL:HG13	2.19	0.42
13:f:228:GLU:H	13:f:228:GLU:CD	2.22	0.42
3:h:126:LYS:HG2	3:h:127:GLY:H	1.83	0.42
3:h:175:LYS:HB2	3:h:175:LYS:HE3	1.78	0.42
3:h:180:GLN:NE2	3:h:184:TRP:HE1	2.17	0.42
3:h:207:PHE:O	3:h:212:TYR:HE2	2.03	0.42
4:i:192:ILE:HA	4:i:198:SER:C	2.45	0.42
5:j:98:ARG:HG3	5:j:103:TYR:CD2	2.54	0.42
5:j:155:GLU:O	5:j:158:LEU:HG	2.19	0.42
6:k:19:LYS:HE2	6:k:179:VAL:N	2.35	0.42
6:k:66:LEU:CD2	6:k:70:ARG:HH22	2.33	0.42
7:l:82:ARG:HA	7:l:87:ILE:HG12	2.02	0.42
7:l:94:ARG:HH12	7:l:244:ALA:C	2.27	0.42
7:l:141:HIS:HD2	7:l:149:ILE:HB	1.83	0.42
7:l:179:TYR:CD1	7:l:179:TYR:C	2.98	0.42
7:l:226:GLU:O	7:l:230:TYR:N	2.41	0.42
7:l:269:GLY:O	7:l:272:PHE:HB3	2.19	0.42
1:1:117:TYR:CD2	7:l:129:PHE:CE2	3.07	0.42
1:1:164:LEU:O	5:5:148:GLY:HA3	2.19	0.42
2:2:46:SER:HB3	2:2:55:ILE:HG13	2.02	0.42
2:2:56:ALA:C	2:2:75:LEU:HD21	2.45	0.42
2:2:74:ARG:HB3	2:2:86:ILE:O	2.19	0.42
3:3:23:MET:O	3:3:34:GLY:N	2.49	0.42
3:3:38:ARG:NH2	3:3:189:GLY:HA3	2.35	0.42
3:3:96:THR:HG23	14:G:103:TYR:O	2.19	0.42
4:4:37:PHE:HD2	4:4:38:ASN:OD1	2.02	0.42
4:4:116:LEU:HB3	4:4:144:ALA:O	2.20	0.42
6:6:19:LYS:HE3	6:6:177:LYS:O	2.19	0.42
7:7:269:GLY:O	7:7:272:PHE:HB3	2.19	0.42
1:8:54:ILE:HD13	1:8:219:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:152:VAL:HG11	2:9:235:LYS:CA	2.50	0.42
2:9:210:ILE:O	2:9:214:MET:HG2	2.19	0.42
8:A:69:VAL:HA	14:G:158:TRP:CE3	2.51	0.42
8:A:174:LYS:HD2	8:A:214:LEU:HD22	2.01	0.42
8:A:220:LYS:HD2	8:A:238:ALA:HB1	2.00	0.42
8:A:223:LEU:HD23	8:A:223:LEU:HA	1.86	0.42
9:B:68:THR:HB	9:B:69:PRO:HD2	2.01	0.42
9:B:218:ASN:O	9:B:233:PRO:HD2	2.19	0.42
10:C:73:ILE:HG12	10:C:108:VAL:HG22	2.01	0.42
10:C:180:TYR:OH	10:C:182:ASP:HA	2.19	0.42
10:C:190:ILE:HG21	10:C:238:ILE:HG12	2.02	0.42
10:C:213:PHE:CE2	10:C:215:THR:HG23	2.55	0.42
12:E:122:ARG:HA	12:E:132:ARG:CD	2.48	0.42
13:F:15:PRO:O	14:G:29:LYS:HG3	2.19	0.42
14:G:9:ASP:O	14:G:23:GLN:HG2	2.19	0.42
14:G:189:ALA:O	14:G:193:VAL:N	2.28	0.42
14:G:237:GLN:HG3	14:G:241:ASP:OD2	2.19	0.42
15:H:145:TYR:CE1	20:M:75:LEU:HD12	2.54	0.42
15:H:200:VAL:HA	15:H:272:ILE:HA	2.01	0.42
15:H:247:LEU:O	15:H:375:VAL:N	2.30	0.42
15:H:353:PHE:CD2	15:H:371:ILE:HD11	2.55	0.42
16:I:195:LYS:HG3	16:I:199:GLU:OE1	2.19	0.42
16:I:335:ASP:HB2	16:I:338:LEU:CB	2.49	0.42
17:J:320:SER:O	17:J:323:ALA:N	2.52	0.42
18:K:135:MET:O	18:K:137:VAL:HG13	2.19	0.42
18:K:214:PRO:HD2	18:K:340:PHE:HD2	1.84	0.42
18:K:218:GLY:O	18:K:222:LEU:HG	2.20	0.42
19:L:110:LYS:CE	19:L:118:ILE:HD12	2.42	0.42
19:L:114:GLU:O	19:L:117:TYR:CZ	2.70	0.42
19:L:360:ILE:HG23	19:L:364:HIS:CG	2.55	0.42
19:L:415:LEU:O	19:L:418:ALA:N	2.52	0.42
20:M:16:ASP:HB3	20:M:20:GLN:NE2	2.34	0.42
20:M:29:GLU:O	20:M:30:LEU:C	2.62	0.42
20:M:198:VAL:HG22	20:M:239:THR:CG2	2.49	0.42
21:N:124:TYR:CB	21:N:162:ARG:NH1	2.81	0.42
21:N:242:PHE:CA	21:N:245:LEU:HB3	2.48	0.42
21:N:244:LYS:O	21:N:248:GLU:HG2	2.19	0.42
21:N:422:TYR:CZ	21:N:426:ILE:HD11	2.54	0.42
21:N:451:GLY:HA3	21:N:484:GLY:HA2	2.02	0.42
21:N:468:GLU:OE1	21:N:468:GLU:N	2.48	0.42
21:N:575:ALA:O	21:N:576:VAL:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:612:SER:H	21:N:618:ARG:HH21	1.66	0.42
21:N:617:VAL:O	21:N:621:THR:HG23	2.19	0.42
21:N:897:LYS:HG2	21:N:899:ASN:HD22	1.84	0.42
22:O:301:PHE:HB2	22:O:305:ILE:CG1	2.43	0.42
22:O:302:VAL:O	22:O:303:LYS:C	2.62	0.42
23:P:120:GLU:HA	23:P:123:ARG:NH1	2.34	0.42
23:P:123:ARG:C	23:P:125:VAL:H	2.26	0.42
23:P:125:VAL:HG23	23:P:126:THR:H	1.85	0.42
23:P:168:TYR:C	23:P:170:SER:N	2.67	0.42
23:P:204:LEU:O	23:P:217:LYS:NZ	2.50	0.42
23:P:235:LEU:HD11	23:P:273:TYR:O	2.19	0.42
23:P:279:ASP:C	23:P:281:ILE:H	2.27	0.42
23:P:365:LEU:O	23:P:368:LEU:N	2.52	0.42
23:P:379:TYR:CD1	23:P:382:ASP:OD2	2.72	0.42
24:Q:109:ASP:CG	24:Q:114:GLN:HE21	2.27	0.42
24:Q:272:LEU:HG	24:Q:274:LEU:HG	2.02	0.42
25:R:75:GLY:HA3	25:R:92:ILE:HD13	2.02	0.42
25:R:139:GLU:O	25:R:142:ALA:HB3	2.19	0.42
25:R:238:PHE:O	25:R:239:THR:HG22	2.20	0.42
25:R:422:ARG:HH12	28:U:299:LYS:HG2	1.84	0.42
26:S:20:HIS:CE1	26:S:131:THR:HB	2.53	0.42
26:S:467:PHE:O	26:S:470:GLN:HB2	2.19	0.42
27:T:123:HIS:O	27:T:126:LEU:HB3	2.18	0.42
27:T:256:LYS:O	27:T:257:THR:C	2.63	0.42
27:T:258:ASN:HA	27:T:261:GLU:HB2	2.01	0.42
28:U:32:ARG:NH1	28:U:98:LYS:O	2.48	0.42
29:V:112:PRO:HA	29:V:142:ASP:OD1	2.19	0.42
29:V:122:ASP:O	29:V:125:THR:HB	2.19	0.42
29:V:136:ALA:O	29:V:157:ARG:HD3	2.18	0.42
29:V:251:TYR:C	29:V:255:ILE:HG12	2.44	0.42
30:W:49:VAL:O	30:W:71:LYS:HE2	2.19	0.42
30:W:140:ASP:OD1	30:W:170:HIS:N	2.48	0.42
30:W:154:LEU:O	30:W:158:ILE:HG12	2.20	0.42
31:X:32:GLU:O	31:X:50:TRP:HA	2.19	0.42
32:Y:72:ASP:OD1	32:Y:72:ASP:N	2.51	0.42
33:Z:217:GLU:HB2	33:Z:249:MET:HE3	2.01	0.42
33:Z:524:ALA:HA	33:Z:562:TRP:CE3	2.54	0.42
33:Z:588:ILE:HG21	33:Z:599:ILE:HG21	2.02	0.42
8:a:205:PHE:O	8:a:209:HIS:HD2	2.01	0.42
9:b:35:LEU:C	9:b:35:LEU:HD12	2.44	0.42
9:b:98:LYS:NZ	9:b:104:TYR:CZ	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:185:LYS:HE3	10:c:187:ASP:CB	2.32	0.42
12:e:156:PHE:HA	12:e:165:TYR:O	2.19	0.42
12:e:203:ILE:HA	12:e:206:GLN:HB3	2.02	0.42
12:e:220:SER:CB	12:e:230:ILE:HA	2.48	0.42
13:f:227:GLY:O	13:f:230:VAL:HG22	2.19	0.42
14:g:40:ILE:O	14:g:47:VAL:N	2.44	0.42
14:g:158:TRP:HB2	14:g:160:TYR:CZ	2.54	0.42
14:g:169:ARG:HH21	14:g:170:GLN:HE22	1.66	0.42
14:g:179:LEU:HD21	14:g:195:GLN:NE2	2.34	0.42
4:i:35:VAL:C	4:i:41:VAL:HG23	2.45	0.42
4:i:47:THR:HG22	4:i:203:ASP:OD2	2.19	0.42
5:j:149:MET:HG3	5:j:174:ALA:HB2	2.01	0.42
6:k:19:LYS:HE3	6:k:177:LYS:O	2.19	0.42
6:k:109:LYS:NZ	6:k:186:LYS:CA	2.82	0.42
6:k:118:GLN:O	6:k:126:VAL:N	2.42	0.42
1:1:175:PHE:O	1:1:178:GLN:HB2	2.19	0.42
3:3:116:ILE:O	3:3:132:ILE:N	2.34	0.42
3:3:180:GLN:NE2	3:h:155:GLY:HA2	2.24	0.42
5:5:4:PRO:HG2	5:5:104:PHE:CD1	2.54	0.42
5:5:50:PHE:HB2	5:5:110:ALA:HB3	2.00	0.42
5:5:98:ARG:HG3	5:5:103:TYR:CD2	2.54	0.42
5:5:205:ASP:N	5:5:205:ASP:OD1	2.53	0.42
6:6:96:ARG:NH2	7:7:163:TYR:O	2.53	0.42
6:6:96:ARG:NE	7:7:166:LYS:O	2.52	0.42
6:6:158:LEU:HB3	6:6:198:GLN:HE22	1.84	0.42
7:7:211:ALA:O	7:7:215:LEU:N	2.25	0.42
1:8:134:ASP:CG	1:8:136:ASP:H	2.27	0.42
2:9:46:SER:HB3	2:9:55:ILE:HG13	2.02	0.42
2:9:53:VAL:O	2:9:232:ILE:HG23	2.19	0.42
8:A:141:LEU:O	8:A:157:THR:N	2.34	0.42
8:A:141:LEU:HB2	8:A:157:THR:OG1	2.20	0.42
9:B:147:LEU:O	9:B:159:TRP:N	2.46	0.42
10:C:14:SER:O	11:D:22:TYR:HB3	2.20	0.42
11:D:169:LYS:O	11:D:170:THR:C	2.63	0.42
11:D:226:SER:O	11:D:229:ILE:HB	2.19	0.42
13:F:87:TYR:O	13:F:91:GLN:NE2	2.28	0.42
13:F:88:LEU:O	13:F:89:ARG:C	2.62	0.42
14:G:78:TYR:HA	14:G:136:THR:HA	2.00	0.42
14:G:109:ILE:HG12	14:G:142:ASP:OD2	2.19	0.42
14:G:158:TRP:HB2	14:G:160:TYR:CZ	2.54	0.42
15:H:318:ARG:NE	15:H:326:ASP:OD2	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:402:ILE:CG2	15:H:440:GLU:HB2	2.49	0.42
16:I:109:LEU:HA	16:I:120:VAL:HA	2.00	0.42
17:J:195:LYS:HB3	17:J:253:ILE:HB	2.01	0.42
17:J:319:PRO:HB2	17:J:323:ALA:CB	2.48	0.42
18:K:68:ILE:O	18:K:71:GLU:HB3	2.19	0.42
19:L:112:LEU:N	19:L:116:LYS:O	2.52	0.42
19:L:195:GLU:HA	19:L:199:LEU:HD12	2.00	0.42
20:M:7:LEU:O	20:M:11:THR:HG23	2.20	0.42
20:M:419:ILE:HG23	20:M:423:GLN:CD	2.44	0.42
21:N:17:GLN:OE1	27:T:32:ILE:HD11	2.19	0.42
21:N:176:GLN:HB3	21:N:218:PRO:HG2	2.00	0.42
21:N:230:VAL:HG21	21:N:264:SER:CB	2.39	0.42
21:N:398:ARG:NH1	21:N:438:ASP:HB3	2.34	0.42
21:N:718:GLU:HA	21:N:724:THR:C	2.45	0.42
21:N:772:GLN:OE1	21:N:868:VAL:HG12	2.20	0.42
21:N:889:ARG:HA	21:N:909:GLU:OE1	2.20	0.42
22:O:178:TYR:O	22:O:181:PHE:HB2	2.19	0.42
22:O:226:LYS:HG3	22:O:227:ILE:O	2.20	0.42
22:O:245:ASP:O	22:O:248:TYR:HD2	2.03	0.42
22:O:250:TRP:O	22:O:251:LEU:C	2.63	0.42
23:P:131:PHE:O	23:P:131:PHE:CG	2.72	0.42
23:P:179:PHE:HA	23:P:182:GLU:HB2	2.01	0.42
23:P:210:ASN:O	23:P:212:LYS:N	2.53	0.42
23:P:329:PHE:HD2	23:P:337:HIS:CD2	2.37	0.42
23:P:433:ILE:CG2	28:U:206:ASP:OD2	2.68	0.42
24:Q:245:SER:O	24:Q:248:ASN:N	2.53	0.42
24:Q:355:GLU:OE2	24:Q:397:LEU:HD21	2.19	0.42
24:Q:355:GLU:HG2	24:Q:397:LEU:HG	2.01	0.42
25:R:33:LEU:HD13	25:R:47:ALA:CB	2.49	0.42
25:R:41:GLU:HB3	25:R:45:GLU:CD	2.44	0.42
25:R:62:TYR:CE1	25:R:65:TYR:HD2	2.36	0.42
25:R:175:ALA:HB1	25:R:243:LEU:HD13	2.01	0.42
25:R:258:LEU:O	25:R:266:LEU:HD11	2.20	0.42
25:R:301:TYR:CD2	25:R:302:ALA:N	2.88	0.42
25:R:302:ALA:O	25:R:303:SER:C	2.61	0.42
26:S:48:LEU:O	26:S:51:ARG:N	2.53	0.42
26:S:234:ILE:HG22	26:S:238:LEU:CG	2.49	0.42
26:S:402:ILE:HG22	26:S:403:SER:H	1.84	0.42
27:T:55:LEU:O	27:T:55:LEU:HD23	2.19	0.42
27:T:71:GLN:OE1	27:T:173:GLU:HG2	2.20	0.42
27:T:83:ASN:O	27:T:87:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:250:MET:H	27:T:256:LYS:HD2	1.82	0.42
27:T:253:GLU:CG	27:T:254:ASP:H	2.21	0.42
28:U:94:HIS:HE1	28:U:122:ILE:HG12	1.83	0.42
28:U:268:LYS:O	28:U:272:GLU:HG3	2.20	0.42
29:V:41:GLY:HA2	29:V:49:VAL:HG11	2.00	0.42
29:V:60:ASP:C	29:V:62:THR:N	2.78	0.42
29:V:119:SER:HB3	29:V:121:VAL:HB	2.02	0.42
29:V:241:THR:O	29:V:241:THR:HG22	2.20	0.42
29:V:256:GLU:O	29:V:257:GLU:C	2.61	0.42
29:V:257:GLU:OE1	29:V:287:THR:CG2	2.67	0.42
29:V:278:LYS:NZ	29:V:279:HIS:NE2	2.67	0.42
30:W:4:GLU:HB2	30:W:107:HIS:C	2.45	0.42
33:Z:183:LYS:NZ	33:Z:292:ASP:CB	2.83	0.42
33:Z:471:LEU:O	33:Z:474:LEU:HB3	2.20	0.42
33:Z:811:SER:O	33:Z:815:MET:HG3	2.20	0.42
8:a:20:SER:H	8:a:24:ARG:H	1.67	0.42
8:a:116:VAL:HG23	4:i:101:ARG:NH2	2.35	0.42
8:a:126:GLN:O	8:a:129:THR:HB	2.20	0.42
8:a:171:THR:HA	8:a:175:GLN:CD	2.45	0.42
8:a:194:ILE:HD13	8:a:194:ILE:HA	1.81	0.42
10:c:33:GLY:HA3	10:c:51:LYS:HB2	2.01	0.42
10:c:106:ILE:HG12	10:c:107:PRO:O	2.20	0.42
10:c:180:TYR:OH	10:c:182:ASP:HA	2.19	0.42
10:c:195:LYS:HZ3	10:c:244:ILE:N	2.17	0.42
11:d:117:GLN:HG2	11:d:129:PHE:HD2	1.85	0.42
11:d:162:GLN:NE2	11:d:163:THR:N	2.67	0.42
11:d:169:LYS:O	11:d:170:THR:C	2.63	0.42
12:e:240:ILE:O	12:e:243:LEU:HB2	2.20	0.42
14:g:39:GLY:HA3	14:g:137:ILE:HG21	2.02	0.42
14:g:70:VAL:O	14:g:74:ILE:HB	2.20	0.42
14:g:123:HIS:CD2	14:g:132:PHE:CZ	3.08	0.42
3:h:15:GLU:N	4:i:145:HIS:HD2	2.17	0.42
4:i:178:GLU:HA	4:i:181:ILE:HD12	2.02	0.42
6:k:167:GLU:O	6:k:171:ARG:N	2.30	0.42
7:l:230:TYR:HD1	7:l:233:LYS:HD3	1.84	0.42
1:1:31:ILE:CG2	1:1:61:LYS:HD2	2.49	0.42
1:1:200:ILE:O	1:1:203:VAL:HB	2.19	0.42
2:2:89:ASP:OD2	2:2:91:SER:OG	2.37	0.42
2:2:111:ASN:HB3	2:2:114:ALA:HB2	2.00	0.42
5:5:21:VAL:HG23	5:5:190:ILE:HB	2.02	0.42
5:5:145:GLN:NE2	7:l:100:TRP:CE3	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:46:PHE:HA	6:6:102:VAL:HG12	2.01	0.42
6:6:117:TYR:CE2	6:6:127:GLU:HB2	2.54	0.42
6:6:166:GLN:HA	6:6:169:GLU:OE1	2.20	0.42
7:7:148:ARG:HH12	7:7:257:GLU:C	2.25	0.42
2:9:162:TYR:CG	2:9:163:VAL:N	2.86	0.42
2:9:210:ILE:O	2:9:214:MET:N	2.36	0.42
2:9:221:ASP:HA	3:h:43:ALA:O	2.19	0.42
8:A:158:ASP:CG	8:A:160:ALA:H	2.28	0.42
8:A:171:THR:HA	8:A:175:GLN:CD	2.45	0.42
8:A:192:ASP:OD1	8:A:193:HIS:N	2.52	0.42
9:B:180:ASN:O	9:B:183:LEU:HG	2.19	0.42
10:C:26:LEU:HA	10:C:29:ILE:HD12	2.01	0.42
10:C:33:GLY:HA3	10:C:51:LYS:HB2	2.01	0.42
11:D:24:LEU:HB2	11:D:28:LYS:NZ	2.35	0.42
11:D:117:GLN:HG2	11:D:129:PHE:HD2	1.85	0.42
11:D:119:ARG:O	11:D:123:SER:N	2.53	0.42
11:D:192:VAL:O	11:D:196:VAL:HG23	2.20	0.42
12:E:208:MET:SD	12:E:212:LEU:HD12	2.60	0.42
13:F:24:TYR:O	13:F:27:GLU:N	2.51	0.42
13:F:49:LEU:CD1	13:F:210:ASN:HB3	2.50	0.42
13:F:215:ILE:HG23	13:F:220:THR:HG21	2.01	0.42
14:G:12:ASN:HD22	14:G:130:ARG:N	2.17	0.42
14:G:169:ARG:HH21	14:G:170:GLN:HE22	1.66	0.42
14:G:179:LEU:HD21	14:G:195:GLN:NE2	2.34	0.42
15:H:169:GLU:N	15:H:174:VAL:HG13	2.34	0.42
15:H:178:ARG:NE	15:H:284:VAL:O	2.42	0.42
15:H:229:LEU:HB2	15:H:267:THR:HG21	2.02	0.42
15:H:244:LYS:HA	15:H:346:ARG:HB3	2.02	0.42
15:H:288:ALA:CB	15:H:335:GLU:HG2	2.50	0.42
16:I:369:MET:HG3	16:I:396:CYS:C	2.45	0.42
17:J:43:ARG:HH21	26:S:480:ARG:CZ	2.33	0.42
17:J:56:ARG:HG3	17:J:57:PHE:N	2.35	0.42
17:J:174:PHE:O	17:J:178:GLY:N	2.53	0.42
17:J:276:LEU:HB3	17:J:309:ARG:CG	2.49	0.42
18:K:82:ALA:O	18:K:86:VAL:HG23	2.20	0.42
19:L:66:GLU:OE1	20:M:5:GLU:HB3	2.20	0.42
19:L:291:PHE:HD1	20:M:294:GLU:HB3	1.84	0.42
20:M:353:SER:O	20:M:357:ARG:HG3	2.18	0.42
21:N:180:SER:O	21:N:184:LYS:N	2.50	0.42
21:N:223:LEU:HB3	21:N:894:ARG:NH2	2.35	0.42
21:N:344:THR:HG1	21:N:378:ASN:HD21	1.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:398:ARG:CZ	21:N:438:ASP:HB3	2.50	0.42
21:N:436:ASP:HB2	21:N:439:VAL:HG23	2.01	0.42
21:N:436:ASP:HB2	21:N:439:VAL:HB	2.02	0.42
21:N:539:MET:HG2	21:N:547:LEU:HB3	2.02	0.42
21:N:889:ARG:HG3	21:N:913:PRO:O	2.19	0.42
22:O:154:GLU:O	22:O:157:LEU:HB3	2.20	0.42
22:O:176:SER:O	22:O:177:GLN:C	2.62	0.42
22:O:224:GLY:O	22:O:225:ASP:OD1	2.36	0.42
22:O:254:LEU:HA	22:O:254:LEU:HD23	1.73	0.42
22:O:282:GLN:C	22:O:286:PHE:HD2	2.27	0.42
22:O:301:PHE:HZ	22:O:308:LEU:H	1.67	0.42
22:O:310:PHE:HB2	22:O:311:GLU:CD	2.44	0.42
22:O:369:ARG:O	22:O:372:GLU:N	2.49	0.42
23:P:144:VAL:HG22	23:P:156:ALA:HA	2.01	0.42
23:P:207:THR:HG23	23:P:216:LEU:HB2	2.00	0.42
24:Q:8:LEU:HA	24:Q:30:LEU:HD11	2.02	0.42
24:Q:20:TYR:HE1	24:Q:68:MET:HB2	1.79	0.42
24:Q:75:ARG:NH1	24:Q:116:PHE:HE2	2.17	0.42
24:Q:416:VAL:O	25:R:410:LEU:HD21	2.19	0.42
25:R:154:LEU:HA	25:R:157:SER:HB2	2.02	0.42
25:R:294:ILE:HA	25:R:297:TYR:CB	2.38	0.42
25:R:349:SER:OG	25:R:351:LYS:HB3	2.19	0.42
26:S:274:PHE:O	26:S:277:SER:HB2	2.20	0.42
26:S:368:LYS:O	26:S:371:LEU:HB2	2.19	0.42
28:U:53:ALA:HA	28:U:93:TYR:OH	2.19	0.42
28:U:267:VAL:O	28:U:268:LYS:C	2.62	0.42
29:V:240:ALA:C	29:V:242:LYS:N	2.75	0.42
29:V:256:GLU:HG3	29:V:260:GLU:OE2	2.20	0.42
29:V:264:GLU:O	29:V:276:PRO:HA	2.19	0.42
30:W:68:GLU:OE2	30:W:69:PHE:HB3	2.20	0.42
30:W:86:HIS:HB2	30:W:90:ALA:HB2	2.00	0.42
31:X:66:LEU:HD23	31:X:99:PHE:CZ	2.55	0.42
32:Y:85:LYS:O	32:Y:89:GLN:HG2	2.19	0.42
33:Z:427:GLN:HA	33:Z:457:ILE:O	2.19	0.42
33:Z:512:ILE:HG12	33:Z:521:GLU:OE1	2.20	0.42
33:Z:606:CYS:HB3	33:Z:875:LYS:NZ	2.33	0.42
33:Z:858:GLY:HA3	33:Z:862:MET:HG2	2.01	0.42
33:Z:884:THR:HA	33:Z:903:MET:HE3	2.00	0.42
8:a:141:LEU:HB2	8:a:157:THR:OG1	2.20	0.42
8:a:174:LYS:HD2	8:a:214:LEU:HD22	2.01	0.42
8:a:192:ASP:OD1	8:a:193:HIS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:74:VAL:HG22	9:b:75:TYR:N	2.35	0.42
9:b:172:LYS:HA	9:b:175:LEU:HD12	2.02	0.42
10:c:143:ARG:HH12	6:k:73:TYR:HB2	1.80	0.42
11:d:119:ARG:O	11:d:123:SER:N	2.53	0.42
11:d:216:LYS:HB2	11:d:220:ASP:CB	2.50	0.42
11:d:227:GLU:OE1	11:d:227:GLU:N	2.31	0.42
12:e:48:LEU:HB2	12:e:220:SER:OG	2.20	0.42
12:e:67:ILE:HG22	12:e:228:PHE:HZ	1.83	0.42
12:e:87:SER:OG	12:e:88:MET:N	2.52	0.42
13:f:49:LEU:CD1	13:f:210:ASN:HB3	2.50	0.42
13:f:132:LEU:HD23	13:f:132:LEU:HA	1.80	0.42
13:f:175:THR:HG22	13:f:178:THR:HB	2.02	0.42
5:j:124:PHE:CE1	5:j:130:ILE:HG23	2.54	0.42
6:k:119:ILE:HG12	6:k:125:LYS:HG3	2.02	0.42
6:k:158:LEU:HB3	6:k:198:GLN:NE2	2.35	0.42
7:l:110:ILE:HG21	7:l:131:GLU:CB	2.39	0.42
7:l:129:PHE:CD1	7:l:129:PHE:C	2.97	0.42
1:1:89:ASN:ND2	13:f:97:LEU:HD11	2.35	0.42
1:1:144:PHE:CD1	1:1:144:PHE:N	2.87	0.42
1:1:204:ARG:O	1:1:208:THR:HG23	2.19	0.42
3:3:154:TYR:HB2	3:h:152:PHE:HB3	2.02	0.42
4:4:69:LYS:HE2	4:4:211:LYS:O	2.20	0.42
4:4:86:GLN:NE2	9:B:99:ARG:HA	2.35	0.42
4:4:119:TYR:O	4:4:122:HIS:CD2	2.73	0.42
5:5:29:LEU:HB3	5:5:37:SER:H	1.85	0.42
1:8:31:ILE:HG23	1:8:74:ASN:HD22	1.84	0.42
1:8:196:VAL:O	1:8:200:ILE:HG13	2.19	0.42
1:8:200:ILE:O	1:8:203:VAL:HB	2.19	0.42
2:9:189:ARG:HA	2:9:192:VAL:O	2.19	0.42
2:9:198:ILE:N	2:9:199:PRO:HD2	2.34	0.42
2:9:198:ILE:O	2:9:201:THR:N	2.45	0.42
2:9:216:VAL:O	2:9:219:TYR:HB2	2.20	0.42
8:A:53:VAL:O	8:A:54:ILE:HD13	2.19	0.42
8:A:191:ILE:CD1	8:A:195:ASN:HB2	2.50	0.42
9:B:74:VAL:HG22	9:B:75:TYR:N	2.35	0.42
9:B:95:THR:HA	9:B:99:ARG:HD2	2.02	0.42
10:C:109:GLU:O	10:C:113:ARG:N	2.42	0.42
11:D:47:GLU:HB3	11:D:203:VAL:HG22	2.02	0.42
11:D:175:LEU:HD21	11:D:198:SER:HB3	2.00	0.42
12:E:38:ILE:HG12	12:E:171:ALA:CB	2.49	0.42
12:E:203:ILE:HA	12:E:206:GLN:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:35:THR:OG1	13:F:48:ALA:HA	2.20	0.42
13:F:171:TYR:CA	13:F:174:ARG:HB3	2.50	0.42
13:F:198:SER:HA	13:F:201:LEU:CD1	2.46	0.42
14:G:9:ASP:HB2	14:G:26:TYR:HE2	1.83	0.42
14:G:141:VAL:HG11	14:G:226:GLY:HA2	2.02	0.42
15:H:51:GLN:NE2	16:I:91:GLU:HB3	2.35	0.42
16:I:193:GLU:OE1	16:I:348:ILE:HG12	2.20	0.42
16:I:264:CYS:O	16:I:267:ILE:HB	2.19	0.42
17:J:71:TYR:CD2	17:J:117:SER:HA	2.55	0.42
18:K:61:LEU:O	18:K:65:GLU:HG3	2.20	0.42
18:K:138:ALA:HA	19:L:128:ILE:CD1	2.50	0.42
18:K:247:LEU:HD11	18:K:290:ARG:HD2	2.01	0.42
18:K:291:GLU:HA	18:K:294:ARG:CZ	2.50	0.42
18:K:355:THR:O	18:K:358:SER:HB2	2.19	0.42
19:L:88:TYR:CD1	20:M:33:ARG:NH2	2.87	0.42
19:L:380:VAL:HA	19:L:383:SER:HB2	2.02	0.42
20:M:242:THR:N	20:M:275:PRO:O	2.30	0.42
20:M:334:ASP:OD1	20:M:335:PRO:HD2	2.20	0.42
20:M:356:SER:O	20:M:359:GLN:HB3	2.20	0.42
20:M:391:LEU:O	20:M:394:VAL:HB	2.20	0.42
21:N:23:TYR:CG	27:T:35:ILE:HG21	2.54	0.42
21:N:140:MET:CE	21:N:143:LYS:HD3	2.50	0.42
21:N:445:GLY:O	21:N:448:LEU:HB2	2.19	0.42
21:N:585:ARG:NH2	21:N:616:HIS:CD2	2.88	0.42
21:N:715:ILE:O	21:N:716:GLN:NE2	2.52	0.42
21:N:781:ALA:H	21:N:878:GLN:CD	2.27	0.42
22:O:5:HIS:NE2	22:O:35:GLU:HG2	2.34	0.42
22:O:102:LEU:O	22:O:105:GLN:N	2.42	0.42
22:O:188:PHE:O	22:O:191:THR:HB	2.20	0.42
22:O:190:TYR:OH	22:O:194:LEU:HD21	2.19	0.42
22:O:380:LEU:C	22:O:384:MET:HE3	2.44	0.42
23:P:273:TYR:HA	23:P:344:ARG:NH2	2.34	0.42
23:P:326:ASP:OD1	23:P:326:ASP:N	2.47	0.42
23:P:345:VAL:O	23:P:346:ILE:C	2.62	0.42
23:P:363:LEU:O	23:P:366:ASN:N	2.53	0.42
23:P:373:GLU:OE2	23:P:377:GLU:OE2	2.38	0.42
23:P:392:LYS:HG2	23:P:393:VAL:C	2.45	0.42
23:P:418:ASN:HA	23:P:421:GLU:CD	2.45	0.42
23:P:422:LEU:HA	23:P:422:LEU:HD23	1.68	0.42
24:Q:259:CYS:O	24:Q:262:LEU:HB3	2.19	0.42
24:Q:310:SER:HB3	24:Q:313:ASP:OD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:420:ASN:HB2	24:Q:424:ASP:OD2	2.19	0.42
25:R:61:PRO:CG	25:R:144:ILE:HG22	2.47	0.42
25:R:304:TYR:O	25:R:307:TYR:N	2.53	0.42
25:R:397:ASN:HB2	25:R:399:GLN:H	1.85	0.42
25:R:406:GLN:O	25:R:410:LEU:HG	2.19	0.42
26:S:171:TYR:HB3	26:S:175:SER:CB	2.48	0.42
26:S:210:LEU:O	26:S:214:MET:N	2.29	0.42
26:S:213:THR:O	26:S:216:LYS:HB2	2.20	0.42
26:S:280:ASN:CA	26:S:283:GLN:HB2	2.30	0.42
26:S:387:VAL:O	26:S:390:THR:HB	2.20	0.42
27:T:7:LEU:O	27:T:30:ILE:HD11	2.20	0.42
27:T:269:SER:C	27:T:271:GLU:H	2.28	0.42
28:U:210:TYR:CE1	28:U:223:HIS:CD2	3.07	0.42
28:U:234:ASN:C	28:U:259:ASN:HD21	2.28	0.42
29:V:44:GLY:O	29:V:47:MET:HG2	2.20	0.42
29:V:69:PHE:HZ	29:V:88:GLN:HA	1.85	0.42
29:V:95:LEU:HD22	29:V:100:ARG:HG2	2.01	0.42
30:W:15:TYR:OH	30:W:149:GLN:NE2	2.52	0.42
30:W:177:GLY:C	30:W:179:ARG:H	2.25	0.42
31:X:36:LYS:HD3	31:X:49:GLU:HB2	2.02	0.42
31:X:48:PHE:CD2	31:X:66:LEU:HD23	2.55	0.42
31:X:48:PHE:HB2	31:X:66:LEU:HB3	2.01	0.42
33:Z:157:LEU:HD23	33:Z:157:LEU:HA	1.88	0.42
33:Z:574:TYR:CD1	33:Z:575:MET:HA	2.55	0.42
8:a:12:TYR:O	8:a:15:HIS:N	2.52	0.42
9:b:34:SER:O	9:b:164:ILE:N	2.35	0.42
9:b:41:ASN:OD1	9:b:41:ASN:N	2.48	0.42
11:d:150:THR:HG22	11:d:156:TYR:HB3	2.02	0.42
13:f:198:SER:HA	13:f:201:LEU:CD1	2.46	0.42
14:g:126:TYR:O	14:g:129:VAL:HG23	2.19	0.42
14:g:194:LYS:HB3	14:g:242:PHE:CG	2.55	0.42
4:i:135:THR:HG1	4:i:138:HIS:CD2	2.37	0.42
4:i:185:SER:O	4:i:189:GLN:HG3	2.20	0.42
5:j:14:ALA:HA	5:j:22:ALA:O	2.19	0.42
5:j:21:VAL:HG23	5:j:190:ILE:HB	2.02	0.42
5:j:67:PHE:O	5:j:71:THR:HG23	2.20	0.42
7:l:190:VAL:HG22	7:l:196:ARG:HG3	2.02	0.42
1:1:64:ASP:CG	1:1:66:GLY:H	2.25	0.42
2:2:68:ARG:NH1	3:h:133:PRO:HB3	2.21	0.42
3:3:37:SER:HA	3:3:50:THR:O	2.20	0.42
3:3:100:VAL:HG22	14:G:102:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:5:191:LYS:N	5:5:194:GLU:O	2.47	0.42
7:7:81:PHE:CZ	7:7:88:ILE:HB	2.55	0.42
7:7:82:ARG:HH21	7:7:185:PRO:HD2	1.85	0.42
7:7:190:VAL:HG22	7:7:196:ARG:HG3	2.02	0.42
7:7:221:TRP:HD1	7:7:222:ASP:OD1	2.03	0.42
1:8:204:ARG:O	1:8:208:THR:HG23	2.19	0.42
1:8:241:ASP:OXT	4:i:192:ILE:O	2.36	0.42
2:9:116:ALA:O	2:9:119:ALA:N	2.38	0.42
8:A:144:VAL:HG12	8:A:154:ILE:HG12	2.02	0.42
9:B:45:ILE:HD11	9:B:64:VAL:HG13	2.01	0.42
10:C:14:SER:O	10:C:17:GLY:N	2.39	0.42
10:C:160:TRP:HA	11:D:56:ASP:H	1.85	0.42
10:C:208:TYR:CZ	10:C:236:LYS:HD2	2.54	0.42
11:D:6:ARG:C	11:D:125:GLY:H	2.25	0.42
11:D:175:LEU:HA	11:D:175:LEU:HD23	1.91	0.42
11:D:193:LYS:O	11:D:197:ARG:HG3	2.20	0.42
12:E:91:HIS:NE2	12:E:119:LEU:HD21	2.34	0.42
13:F:138:ASP:OD1	13:F:140:SER:OG	2.37	0.42
14:G:190:ARG:O	14:G:194:LYS:HG3	2.19	0.42
15:H:161:GLU:C	15:H:162:ARG:HH11	2.26	0.42
15:H:244:LYS:HB3	15:H:346:ARG:CD	2.49	0.42
15:H:407:ILE:HG21	15:H:422:VAL:HG13	2.02	0.42
17:J:57:PHE:O	17:J:60:ASP:HB2	2.20	0.42
19:L:147:THR:CB	19:L:157:ARG:HB3	2.49	0.42
19:L:288:GLY:HA2	19:L:333:LEU:HA	2.01	0.42
19:L:303:ARG:HG2	19:L:307:GLU:HG3	2.02	0.42
19:L:398:ALA:HB1	19:L:414:ASP:HB3	2.02	0.42
20:M:154:LEU:HD22	20:M:156:LEU:HD23	2.02	0.42
20:M:159:LEU:HA	20:M:160:PRO:HD3	1.80	0.42
20:M:331:ASP:CG	20:M:332:VAL:N	2.78	0.42
21:N:9:LEU:HD13	21:N:28:ILE:HA	2.01	0.42
21:N:87:ASP:CG	21:N:88:ARG:N	2.74	0.42
21:N:90:ASP:HB3	21:N:93:GLU:CG	2.46	0.42
21:N:123:PHE:HA	21:N:126:LYS:CE	2.50	0.42
21:N:211:PHE:HD2	21:N:212:ASP:OD1	2.03	0.42
21:N:327:LEU:HD21	29:V:164:LEU:HD21	2.02	0.42
21:N:441:VAL:O	21:N:444:HIS:N	2.53	0.42
21:N:669:GLU:O	21:N:671:LEU:N	2.47	0.42
22:O:78:VAL:HG12	22:O:83:LEU:HD12	2.01	0.42
22:O:96:LEU:O	22:O:100:ASP:CG	2.63	0.42
22:O:190:TYR:HD1	22:O:193:LEU:HD23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:234:LEU:O	22:O:239:MET:HG2	2.20	0.42
22:O:267:ASP:HA	22:O:270:ILE:CG2	2.49	0.42
22:O:289:GLN:HG2	22:O:293:LEU:HD22	2.01	0.42
22:O:369:ARG:CZ	22:O:373:TRP:NE1	2.83	0.42
23:P:72:TRP:CZ3	23:P:103:TYR:HB2	2.55	0.42
23:P:116:ILE:HG12	23:P:143:LEU:HD21	2.02	0.42
23:P:175:GLU:CD	23:P:179:PHE:HE1	2.28	0.42
23:P:228:SER:HA	23:P:231:LYS:CD	2.50	0.42
23:P:303:PHE:HB3	23:P:348:HIS:NE2	2.34	0.42
23:P:419:VAL:HG12	23:P:423:LEU:HG	2.01	0.42
24:Q:40:ALA:CA	24:Q:46:VAL:HA	2.42	0.42
24:Q:404:ASN:HD21	25:R:393:PRO:HG2	1.85	0.42
25:R:205:GLU:HA	25:R:208:ASN:ND2	2.34	0.42
25:R:336:LYS:O	25:R:339:ALA:N	2.50	0.42
26:S:15:VAL:HG11	26:S:30:GLN:CB	2.50	0.42
26:S:474:GLU:HA	26:S:477:VAL:HB	2.01	0.42
27:T:37:ASN:C	27:T:39:LEU:N	2.78	0.42
27:T:152:LEU:O	27:T:153:MET:C	2.63	0.42
28:U:120:LEU:HD21	28:U:122:ILE:HG13	2.02	0.42
30:W:109:ARG:HA	30:W:138:ALA:O	2.20	0.42
30:W:172:LEU:HD22	30:W:188:SER:HB3	2.02	0.42
31:X:8:ILE:HG22	31:X:10:PHE:CZ	2.55	0.42
31:X:48:PHE:HZ	31:X:68:LEU:HD22	1.85	0.42
33:Z:113:SER:CB	33:Z:143:VAL:HB	2.49	0.42
33:Z:233:LEU:HD23	33:Z:268:ALA:CB	2.49	0.42
8:a:92:ASN:HD22	8:a:137:LEU:HD11	1.85	0.42
11:d:81:ASP:CG	11:d:127:ARG:HH22	2.27	0.42
11:d:216:LYS:HB3	11:d:217:PRO:HD2	2.01	0.42
13:f:11:VAL:HG23	14:g:130:ARG:HB2	2.02	0.42
13:f:215:ILE:HG23	13:f:220:THR:HG21	2.01	0.42
14:g:18:ASP:CG	14:g:20:ARG:HD3	2.44	0.42
14:g:109:ILE:HG12	14:g:142:ASP:OD2	2.19	0.42
4:i:137:SER:O	4:i:138:HIS:ND1	2.52	0.42
4:i:189:GLN:O	4:i:193:TRP:CD1	2.73	0.42
5:j:95:LEU:O	5:j:96:TYR:C	2.62	0.42
5:j:135:ASP:CG	5:j:136:PHE:N	2.75	0.42
5:j:149:MET:HE3	5:j:153:LEU:CD1	2.48	0.42
5:j:164:PHE:HB2	5:j:189:ILE:CD1	2.48	0.42
6:k:7:ILE:HA	6:k:130:TYR:HA	2.01	0.42
6:k:108:ASP:N	6:k:113:LYS:O	2.52	0.42
6:k:158:LEU:HB3	6:k:198:GLN:HE22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:54:ILE:HD13	1:1:219:ASP:OD2	2.19	0.42
1:1:75:GLY:HA3	1:1:126:VAL:HA	2.02	0.42
1:1:168:PHE:CD2	1:1:169:LEU:HD12	2.48	0.42
1:1:196:VAL:O	1:1:200:ILE:HG13	2.19	0.42
2:2:35:GLN:CD	2:2:144:TRP:HB2	2.44	0.42
2:2:42:THR:HG21	2:2:58:ASP:CG	2.45	0.42
2:2:136:ARG:HB3	2:2:142:PRO:HA	2.01	0.42
2:2:152:VAL:HG11	2:2:235:LYS:CA	2.50	0.42
3:3:155:GLY:C	3:h:156:TYR:HB2	2.44	0.42
3:3:211:GLU:HG2	3:3:212:TYR:N	2.32	0.42
4:4:189:GLN:O	4:4:193:TRP:CD1	2.73	0.42
5:5:73:LEU:HD21	10:C:96:GLN:HG3	2.02	0.42
5:5:101:GLY:O	6:6:93:ARG:NH1	2.52	0.42
6:6:7:ILE:HA	6:6:130:TYR:HA	2.01	0.42
6:6:158:LEU:HB3	6:6:198:GLN:NE2	2.35	0.42
7:7:101:VAL:HG12	5:j:177:ARG:HH11	1.84	0.42
7:7:268:VAL:HG11	5:j:205:ASP:HB3	2.01	0.42
1:8:22:ASN:O	2:9:166:LEU:HD21	2.19	0.42
1:8:30:THR:HA	1:8:74:ASN:HD21	1.72	0.42
1:8:93:TRP:O	1:8:97:ASP:N	2.41	0.42
9:B:92:VAL:HA	9:B:95:THR:HG1	1.85	0.42
10:C:24:TYR:HA	10:C:27:GLU:CB	2.47	0.42
10:C:106:ILE:HG12	10:C:107:PRO:O	2.20	0.42
12:E:61:SER:HA	12:E:64:ILE:HD12	2.02	0.42
12:E:165:TYR:HE1	13:F:60:GLN:HB2	1.83	0.42
12:E:167:TYR:CG	12:E:170:LYS:HB2	2.55	0.42
13:F:6:TYR:HB3	13:F:20:PHE:HE1	1.84	0.42
13:F:117:GLN:OE1	14:G:83:PRO:HB2	2.19	0.42
13:F:134:ILE:O	13:F:145:LEU:N	2.34	0.42
14:G:129:VAL:HG23	14:G:130:ARG:N	2.34	0.42
14:G:191:GLU:CD	14:G:194:LYS:HD2	2.45	0.42
15:H:155:PHE:HZ	20:M:78:LEU:HG	1.84	0.42
15:H:220:LYS:HD2	15:H:375:VAL:HG22	2.02	0.42
15:H:225:VAL:HG12	15:H:229:LEU:HD12	2.01	0.42
15:H:317:ALA:CB	15:H:363:PRO:HD3	2.41	0.42
15:H:420:ARG:HB3	15:H:424:THR:OG1	2.20	0.42
16:I:250:SER:HA	16:I:253:ILE:HB	2.01	0.42
17:J:46:ALA:CA	17:J:49:ASN:HD22	2.29	0.42
17:J:164:ILE:O	17:J:168:VAL:N	2.44	0.42
18:K:71:GLU:OE2	21:N:609:LEU:HD21	2.20	0.42
18:K:259:ARG:O	18:K:263:GLU:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:K:369:ASP:O	18:K:372:ILE:HG22	2.20	0.42
19:L:67:HIS:HA	19:L:70:TYR:CD2	2.54	0.42
19:L:199:LEU:HA	19:L:199:LEU:HD23	1.79	0.42
19:L:236:ALA:HA	19:L:277:ILE:HG13	2.02	0.42
19:L:249:SER:HB2	20:M:303:ARG:HE	1.85	0.42
19:L:258:GLU:OE1	19:L:261:ARG:NH2	2.52	0.42
19:L:370:LYS:HD3	19:L:374:PHE:CE1	2.54	0.42
21:N:36:TRP:CB	21:N:68:VAL:HG22	2.49	0.42
21:N:202:PHE:O	21:N:205:SER:HB2	2.19	0.42
21:N:391:PRO:HG3	21:N:405:LEU:HD21	2.02	0.42
21:N:584:ARG:O	21:N:585:ARG:C	2.63	0.42
21:N:666:GLN:NE2	21:N:712:ASN:HA	2.34	0.42
22:O:3:ASN:HA	22:O:6:GLU:OE1	2.19	0.42
22:O:7:ILE:C	22:O:9:THR:N	2.78	0.42
22:O:150:LEU:HA	22:O:153:LEU:HB3	2.02	0.42
22:O:384:MET:HG3	22:O:385:GLU:N	2.35	0.42
23:P:91:LEU:HD22	23:P:95:TYR:OH	2.20	0.42
23:P:343:LYS:HG2	23:P:379:TYR:CE1	2.55	0.42
23:P:385:ASN:ND2	24:Q:349:LYS:HE3	2.35	0.42
23:P:426:ILE:HG21	29:V:233:LYS:CD	2.50	0.42
24:Q:77:PHE:O	24:Q:81:SER:N	2.36	0.42
24:Q:140:LYS:O	24:Q:144:LEU:HG	2.19	0.42
24:Q:305:ALA:HA	24:Q:308:ASN:HB2	2.02	0.42
24:Q:384:LYS:HD2	24:Q:384:LYS:N	2.35	0.42
25:R:323:ASN:O	25:R:326:ALA:N	2.53	0.42
25:R:325:HIS:CG	25:R:326:ALA:N	2.87	0.42
26:S:181:ALA:HA	26:S:184:TRP:HB2	2.01	0.42
27:T:11:LEU:O	27:T:15:PHE:N	2.44	0.42
27:T:63:GLU:HG2	27:T:105:LEU:HD11	2.02	0.42
27:T:146:ILE:HG23	27:T:147:LYS:N	2.34	0.42
28:U:15:LEU:O	28:U:18:ALA:HB3	2.19	0.42
28:U:19:LEU:HD12	29:V:209:GLU:OE2	2.19	0.42
28:U:29:GLU:OE2	28:U:126:LYS:NZ	2.52	0.42
28:U:124:ASP:HB3	28:U:133:PRO:HB2	2.00	0.42
28:U:163:ALA:CA	28:U:164:GLU:HB2	2.50	0.42
29:V:246:LYS:O	29:V:247:ILE:C	2.62	0.42
29:V:264:GLU:O	29:V:265:GLU:C	2.62	0.42
30:W:87:MET:O	30:W:88:ALA:C	2.63	0.42
31:X:17:TYR:OH	31:X:62:ASP:HA	2.19	0.42
33:Z:124:MET:SD	33:Z:129:ASN:HA	2.59	0.42
33:Z:446:GLU:O	33:Z:450:GLY:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:490:ILE:HG23	33:Z:529:ALA:CB	2.50	0.42
33:Z:535:VAL:HG11	33:Z:875:LYS:O	2.19	0.42
33:Z:925:VAL:HA	33:Z:993:GLU:HA	2.02	0.42
8:a:52:VAL:HG11	8:a:203:VAL:HG22	2.01	0.42
8:a:69:VAL:HA	14:g:158:TRP:HZ3	1.81	0.42
8:a:81:MET:HB2	8:a:143:PHE:CD1	2.55	0.42
9:b:95:THR:HA	9:b:99:ARG:HD2	2.02	0.42
10:c:26:LEU:HA	10:c:29:ILE:HD12	2.01	0.42
11:d:24:LEU:HB2	11:d:28:LYS:NZ	2.35	0.42
11:d:31:THR:HG22	11:d:166:ARG:CZ	2.50	0.42
12:e:40:ILE:O	12:e:47:VAL:N	2.53	0.42
12:e:118:ASP:O	12:e:122:ARG:NE	2.53	0.42
13:f:11:VAL:HA	14:g:130:ARG:HB2	2.00	0.42
13:f:35:THR:OG1	13:f:48:ALA:HA	2.20	0.42
13:f:126:ARG:HH12	13:f:128:TYR:HA	1.85	0.42
14:g:22:PHE:HA	14:g:25:GLU:CD	2.45	0.42
14:g:189:ALA:O	14:g:193:VAL:N	2.28	0.42
3:h:151:THR:HA	3:h:154:TYR:CD2	2.55	0.42
4:i:78:ALA:HA	4:i:81:THR:OG1	2.20	0.42
6:k:19:LYS:HB3	6:k:31:SER:HA	2.01	0.42
6:k:148:TYR:O	6:k:149:ARG:HD3	2.19	0.42
1:1:46:THR:HG22	1:1:59:GLU:N	2.34	0.41
1:1:119:LYS:CB	1:1:123:PRO:HA	2.48	0.41
1:1:145:ASP:OD2	1:1:147:VAL:HG22	2.20	0.41
1:1:218:GLY:HA2	1:1:238:LEU:CB	2.49	0.41
2:2:136:ARG:HD2	2:2:136:ARG:HA	1.80	0.41
2:2:186:PRO:HB3	4:4:194:ASN:OD1	2.20	0.41
3:3:180:GLN:NE2	3:3:184:TRP:HE1	2.17	0.41
4:4:178:GLU:HA	4:4:181:ILE:HD12	2.02	0.41
4:4:242:LEU:HG	5:5:201:LYS:N	2.35	0.41
5:5:18:LYS:HB2	5:5:157:ASN:C	2.45	0.41
5:5:89:GLN:HG3	9:B:101:TYR:O	2.20	0.41
5:5:95:LEU:O	5:5:96:TYR:C	2.62	0.41
6:6:36:ARG:HG2	6:6:46:PHE:CE2	2.53	0.41
6:6:87:GLU:O	6:6:90:LYS:HB2	2.20	0.41
6:6:119:ILE:HG12	6:6:125:LYS:HG3	2.01	0.41
1:8:32:LEU:HB3	1:8:207:PHE:HZ	1.85	0.41
1:8:39:PHE:HA	1:8:133:LEU:HD21	2.01	0.41
1:8:75:GLY:HA3	1:8:126:VAL:HA	2.02	0.41
1:8:153:GLU:OE1	1:8:156:ARG:HB2	2.20	0.41
2:9:124:TYR:CD1	13:F:99:PHE:O	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:9:179:PHE:CD2	2:9:217:LEU:HD22	2.55	0.41
8:A:30:TYR:O	14:G:19:GLY:HA3	2.20	0.41
8:A:75:ILE:HG12	8:A:80:GLY:C	2.45	0.41
8:A:81:MET:HB2	8:A:143:PHE:CD1	2.55	0.41
9:B:172:LYS:HA	9:B:175:LEU:HD12	2.02	0.41
11:D:216:LYS:HB2	11:D:220:ASP:CB	2.50	0.41
12:E:98:THR:HG22	12:E:102:TYR:CE2	2.55	0.41
12:E:165:TYR:HB3	13:F:57:SER:HB2	2.00	0.41
12:E:244:LYS:NZ	12:E:244:LYS:CB	2.82	0.41
13:F:157:TYR:CZ	14:G:60:VAL:HA	2.54	0.41
13:F:175:THR:HG22	13:F:178:THR:HB	2.02	0.41
14:G:22:PHE:HA	14:G:25:GLU:CD	2.45	0.41
14:G:135:SER:HA	14:G:151:LEU:O	2.20	0.41
15:H:321:ASP:OD2	15:H:330:GLN:HG2	2.20	0.41
15:H:445:LYS:HA	15:H:448:ASP:HB2	2.01	0.41
18:K:100:LEU:HD21	18:K:111:SER:OG	2.20	0.41
18:K:128:ARG:HE	29:V:272:GLY:H	1.66	0.41
19:L:163:THR:OG1	19:L:265:GLU:OE1	2.38	0.41
19:L:239:ILE:HD12	19:L:277:ILE:HD11	2.00	0.41
19:L:391:ILE:O	19:L:394:CYS:N	2.53	0.41
19:L:398:ALA:N	19:L:418:ALA:HB2	2.35	0.41
20:M:243:PHE:CE2	20:M:245:LYS:HB2	2.55	0.41
20:M:305:MET:HE3	20:M:337:LEU:HD21	2.02	0.41
20:M:371:ASP:OD2	20:M:411:LYS:HB3	2.20	0.41
21:N:60:MET:SD	21:N:88:ARG:HD2	2.60	0.41
21:N:211:PHE:CD1	21:N:225:LEU:HD13	2.55	0.41
21:N:226:ASN:O	21:N:230:VAL:HG23	2.20	0.41
21:N:293:LEU:HA	21:N:296:CYS:SG	2.60	0.41
21:N:338:PHE:CE2	21:N:701:VAL:HG13	2.55	0.41
21:N:473:ASP:HA	21:N:513:ILE:HD13	2.01	0.41
21:N:568:VAL:O	21:N:571:LEU:HB2	2.20	0.41
21:N:871:MET:HB3	21:N:872:THR:H	1.60	0.41
22:O:219:ILE:O	22:O:222:LEU:N	2.52	0.41
22:O:252:PHE:O	22:O:255:LEU:HB3	2.19	0.41
23:P:71:LYS:CB	23:P:74:ASP:H	2.33	0.41
23:P:94:GLN:HA	23:P:97:ILE:HD12	2.02	0.41
23:P:133:GLU:C	23:P:135:GLU:N	2.75	0.41
23:P:220:TYR:HA	23:P:223:LEU:HD12	2.02	0.41
23:P:255:ALA:HA	23:P:258:LYS:CE	2.46	0.41
23:P:311:TRP:CG	23:P:342:GLN:HE22	2.38	0.41
23:P:432:LEU:HD23	23:P:435:LYS:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Q:11:ALA:O	24:Q:23:ALA:HB1	2.20	0.41
25:R:64:LYS:HA	25:R:94:PHE:CE2	2.54	0.41
25:R:382:ASP:OD2	25:R:385:ASN:HB3	2.20	0.41
26:S:56:SER:CB	26:S:129:GLU:CB	2.98	0.41
26:S:176:LEU:C	26:S:178:LEU:N	2.77	0.41
26:S:234:ILE:C	26:S:238:LEU:HG	2.45	0.41
26:S:423:VAL:HG11	26:S:436:ILE:CD1	2.50	0.41
27:T:70:ILE:HB	27:T:78:PHE:CD1	2.54	0.41
27:T:202:LEU:HG	27:T:214:GLU:CD	2.45	0.41
28:U:78:GLU:O	28:U:82:LYS:HG3	2.19	0.41
29:V:250:GLN:O	29:V:254:ARG:HG3	2.20	0.41
30:W:6:THR:O	30:W:50:GLY:N	2.53	0.41
30:W:67:ALA:N	30:W:68:GLU:HB2	2.35	0.41
30:W:98:LEU:HD11	30:W:109:ARG:O	2.20	0.41
33:Z:208:VAL:HB	33:Z:209:PRO:HD3	2.00	0.41
33:Z:292:ASP:HA	33:Z:295:ARG:HD2	2.02	0.41
33:Z:436:LEU:HB3	33:Z:451:ALA:HB1	2.02	0.41
33:Z:510:LEU:HA	33:Z:513:ALA:HB3	2.01	0.41
33:Z:823:ASN:HA	33:Z:831:LEU:HD12	2.01	0.41
8:a:16:ILE:HD11	8:a:18:ILE:HD13	2.00	0.41
8:a:54:ILE:HD12	8:a:225:VAL:HG22	2.01	0.41
8:a:93:ALA:O	8:a:96:ARG:HB2	2.20	0.41
8:a:191:ILE:HD11	8:a:195:ASN:HB2	2.02	0.41
9:b:77:GLY:CA	9:b:132:VAL:HG12	2.51	0.41
10:c:124:GLN:HA	11:d:127:ARG:NE	2.35	0.41
10:c:168:ASN:HB3	10:c:171:ALA:HB3	2.02	0.41
10:c:218:LYS:HE3	10:c:223:GLY:CA	2.46	0.41
11:d:118:GLN:NE2	12:e:83:ALA:O	2.53	0.41
12:e:15:PHE:HA	12:e:21:LEU:HD23	2.02	0.41
12:e:38:ILE:HG12	12:e:171:ALA:CB	2.49	0.41
12:e:167:TYR:CG	12:e:170:LYS:HB2	2.55	0.41
12:e:208:MET:SD	12:e:212:LEU:HD12	2.60	0.41
12:e:239:LEU:O	12:e:242:GLU:HB3	2.20	0.41
13:f:182:ILE:HG22	13:f:189:LEU:HG	2.02	0.41
3:h:22:ILE:HG13	3:h:146:ALA:HB3	2.01	0.41
3:h:109:LYS:C	3:h:112:LEU:H	2.28	0.41
5:j:3:ASP:O	5:j:7:ILE:HG13	2.20	0.41
6:k:39:SER:OG	6:k:42:THR:N	2.54	0.41
6:k:118:GLN:HE21	6:k:133:HIS:CE1	2.38	0.41
6:k:158:LEU:CD1	6:k:198:GLN:HE22	2.30	0.41
7:l:82:ARG:HH21	7:l:185:PRO:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:l:87:ILE:HB	7:l:255:VAL:HB	2.01	0.41
2:2:53:VAL:O	2:2:232:ILE:HG23	2.19	0.41
2:2:59:ASN:O	2:2:72:VAL:N	2.47	0.41
2:2:145:ASN:H	2:2:165:LEU:HB3	1.85	0.41
2:2:179:PHE:CD2	2:2:217:LEU:HD22	2.55	0.41
2:2:216:VAL:O	2:2:219:TYR:HB2	2.20	0.41
2:2:221:ASP:OD2	2:2:223:ARG:HB2	2.19	0.41
2:2:221:ASP:CG	2:2:224:SER:H	2.28	0.41
2:2:226:ARG:HG2	2:2:246:GLN:CG	2.50	0.41
3:3:80:TYR:CD1	8:A:106:TYR:HB2	2.55	0.41
4:4:185:SER:O	4:4:189:GLN:HG3	2.20	0.41
5:5:14:ALA:HA	5:5:22:ALA:O	2.19	0.41
5:5:46:TYR:CG	5:5:71:THR:HG21	2.55	0.41
5:5:113:ASN:OD1	5:5:115:LYS:N	2.53	0.41
6:6:22:THR:HG23	6:6:26:SER:O	2.21	0.41
6:6:49:GLU:O	6:6:53:THR:HG22	2.20	0.41
7:7:210:PHE:CE1	6:k:138:PHE:HA	2.55	0.41
2:9:35:GLN:CD	2:9:144:TRP:HB2	2.44	0.41
2:9:95:HIS:CE1	2:9:99:LEU:HD21	2.55	0.41
2:9:152:VAL:HG22	2:9:158:GLN:HA	2.02	0.41
8:A:26:TYR:HB3	8:A:30:TYR:CE2	2.56	0.41
8:A:93:ALA:O	8:A:96:ARG:HB2	2.20	0.41
9:B:42:GLY:HA2	9:B:145:PHE:CZ	2.56	0.41
9:B:92:VAL:HA	9:B:95:THR:OG1	2.20	0.41
9:B:109:LEU:O	9:B:113:GLU:HG2	2.20	0.41
11:D:31:THR:HG22	11:D:166:ARG:CZ	2.50	0.41
11:D:216:LYS:HB3	11:D:217:PRO:HD2	2.01	0.41
12:E:232:ASP:HB2	12:E:234:GLU:OE1	2.20	0.41
13:F:28:ALA:HA	13:F:31:GLN:HB3	2.01	0.41
15:H:77:ALA:C	16:I:128:TYR:HE1	2.27	0.41
15:H:99:VAL:HB	15:H:149:LEU:O	2.20	0.41
15:H:173:ARG:CZ	16:I:127:ASP:O	2.68	0.41
15:H:197:MET:HG3	15:H:278:GLU:CG	2.50	0.41
15:H:223:GLU:HB3	20:M:404:ARG:NH2	2.34	0.41
16:I:195:LYS:HG3	16:I:199:GLU:CD	2.45	0.41
17:J:142:VAL:HA	17:J:208:CYS:O	2.21	0.41
17:J:211:ILE:HB	17:J:245:ILE:HA	2.01	0.41
17:J:250:ILE:CG2	17:J:251:ASP:N	2.83	0.41
17:J:297:LEU:HD22	17:J:305:LEU:HD11	2.01	0.41
18:K:236:ARG:HA	18:K:270:PHE:HB3	2.01	0.41
18:K:386:ILE:HA	18:K:389:GLU:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:164:ASP:HB3	19:L:265:GLU:HG2	2.02	0.41
19:L:357:ARG:HD3	19:L:386:PHE:N	2.29	0.41
19:L:371:THR:CG2	19:L:409:HIS:HD2	2.33	0.41
20:M:29:GLU:HA	20:M:32:THR:OG1	2.20	0.41
20:M:319:ASP:O	20:M:322:LYS:HE2	2.20	0.41
20:M:333:LEU:HD11	20:M:346:LYS:NZ	2.35	0.41
21:N:62:ALA:HB1	21:N:81:TYR:HB3	2.02	0.41
21:N:111:GLN:HA	21:N:114:SER:HB3	2.02	0.41
21:N:223:LEU:HD12	21:N:226:ASN:HB3	2.02	0.41
21:N:237:LEU:HA	21:N:240:GLN:OE1	2.20	0.41
21:N:253:LEU:HD23	21:N:257:ILE:HD12	2.02	0.41
21:N:381:GLU:OE1	21:N:381:GLU:N	2.32	0.41
21:N:479:GLU:OE1	21:N:512:ASN:C	2.63	0.41
21:N:510:HIS:NE2	29:V:59:ASP:CG	2.78	0.41
22:O:179:PHE:HA	22:O:182:LYS:HB2	2.02	0.41
22:O:330:ARG:HG3	22:O:334:LEU:CD2	2.50	0.41
22:O:377:VAL:O	22:O:380:LEU:N	2.53	0.41
23:P:112:LEU:O	23:P:116:ILE:HG13	2.19	0.41
23:P:160:LEU:HD23	23:P:186:LEU:HD12	2.02	0.41
23:P:170:SER:N	23:P:176:LYS:NZ	2.68	0.41
23:P:235:LEU:HA	23:P:268:LEU:HD23	2.01	0.41
23:P:425:HIS:O	23:P:426:ILE:C	2.62	0.41
24:Q:9:GLU:O	24:Q:12:ARG:HB3	2.20	0.41
24:Q:358:GLU:HG3	24:Q:395:GLY:O	2.19	0.41
24:Q:396:TRP:N	24:Q:396:TRP:CD1	2.87	0.41
25:R:178:GLY:C	25:R:183:ASP:H	2.25	0.41
25:R:273:SER:HB2	25:R:276:LEU:H	1.85	0.41
25:R:331:ARG:HH21	32:Y:71:ASP:CG	2.27	0.41
25:R:350:LEU:HB2	25:R:388:VAL:HG23	2.02	0.41
26:S:238:LEU:O	26:S:241:PHE:HB2	2.20	0.41
26:S:248:ASP:O	26:S:251:SER:N	2.47	0.41
26:S:418:THR:O	26:S:419:VAL:C	2.63	0.41
27:T:269:SER:C	27:T:271:GLU:N	2.75	0.41
28:U:57:GLU:CB	30:W:100:HIS:HE2	2.31	0.41
28:U:197:LEU:HD11	28:U:201:GLN:HB2	2.01	0.41
29:V:29:ILE:HB	29:V:203:TYR:CB	2.50	0.41
29:V:34:LEU:O	29:V:38:LEU:HG	2.20	0.41
29:V:109:HIS:O	29:V:141:VAL:HB	2.19	0.41
29:V:195:HIS:CG	29:V:196:TYR:N	2.88	0.41
29:V:249:GLU:O	29:V:252:SER:N	2.52	0.41
30:W:85:LEU:CD1	30:W:118:ILE:HA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:154:LEU:HD23	30:W:154:LEU:HA	1.87	0.41
31:X:59:ARG:HH21	31:X:61:LEU:HD21	1.85	0.41
31:X:121:ILE:HA	31:X:124:LYS:HB2	2.01	0.41
33:Z:307:HIS:HA	33:Z:310:LEU:HB3	2.02	0.41
33:Z:416:THR:CA	33:Z:450:GLY:HA2	2.43	0.41
33:Z:785:VAL:C	33:Z:826:ARG:NH1	2.78	0.41
8:a:81:MET:HG2	8:a:82:VAL:N	2.34	0.41
8:a:191:ILE:CD1	8:a:195:ASN:HB2	2.50	0.41
9:b:45:ILE:HD11	9:b:64:VAL:HG13	2.01	0.41
9:b:79:GLY:O	9:b:83:ARG:N	2.53	0.41
10:c:231:LYS:HE3	10:c:231:LYS:HB3	1.82	0.41
11:d:29:ARG:CZ	11:d:29:ARG:HB2	2.49	0.41
13:f:171:TYR:HB3	13:f:199:GLN:HG3	2.02	0.41
14:g:67:ILE:HG21	14:g:217:SER:OG	2.20	0.41
14:g:113:ALA:O	14:g:116:LEU:N	2.53	0.41
3:h:156:TYR:HE2	3:h:177:SER:OG	2.03	0.41
4:i:32:ILE:N	4:i:156:LEU:O	2.48	0.41
4:i:236:ARG:HE	5:j:162:ASP:N	2.19	0.41
5:j:182:GLY:HA2	5:j:202:MET:CE	2.50	0.41
6:k:49:GLU:O	6:k:53:THR:HG22	2.20	0.41
7:l:165:TYR:HB2	7:l:170:LEU:CD1	2.50	0.41
7:l:221:TRP:HD1	7:l:222:ASP:OD1	2.03	0.41
1:1:119:LYS:HZ1	1:1:122:PHE:HD2	1.65	0.41
1:1:215:ILE:HG13	1:1:216:GLN:HG3	2.03	0.41
3:3:37:SER:OG	3:3:190:GLY:HA3	2.20	0.41
3:3:151:THR:HA	3:3:154:TYR:CD2	2.55	0.41
4:4:90:SER:OG	9:B:94:HIS:CD2	2.72	0.41
4:4:164:MET:SD	4:4:168:GLU:HG2	2.60	0.41
4:4:192:ILE:HA	4:4:198:SER:C	2.45	0.41
5:5:73:LEU:CD2	10:C:96:GLN:HG3	2.50	0.41
6:6:172:MET:HA	6:6:173:PRO:HD3	1.92	0.41
1:8:49:ILE:HG21	4:i:196:LEU:HD11	2.02	0.41
1:8:108:ALA:O	1:8:112:ILE:HG13	2.20	0.41
1:8:201:LYS:HA	4:i:229:GLN:HG2	2.01	0.41
2:9:56:ALA:C	2:9:75:LEU:HD21	2.45	0.41
2:9:84:VAL:HG12	2:9:86:ILE:HG13	2.03	0.41
2:9:221:ASP:CG	2:9:224:SER:H	2.28	0.41
8:A:36:ASN:HB3	8:A:173:PRO:HG3	2.02	0.41
8:A:52:VAL:HG11	8:A:203:VAL:HG22	2.01	0.41
8:A:62:LYS:NZ	14:G:177:GLU:C	2.76	0.41
8:A:63:LEU:HD22	14:G:176:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:156:LYS:HB3	8:A:166:TYR:CE1	2.56	0.41
10:C:126:GLY:C	10:C:128:LEU:H	2.27	0.41
11:D:11:PHE:N	12:E:23:GLN:NE2	2.68	0.41
11:D:66:LYS:HG3	11:D:68:ASP:O	2.20	0.41
12:E:15:PHE:HB2	13:F:24:TYR:CB	2.51	0.41
13:F:168:ALA:CA	13:F:199:GLN:HB2	2.49	0.41
13:F:215:ILE:O	13:F:223:THR:N	2.52	0.41
14:G:67:ILE:HG21	14:G:217:SER:OG	2.20	0.41
14:G:85:GLY:O	14:G:89:VAL:HG23	2.20	0.41
15:H:77:ALA:CB	15:H:170:GLU:HB3	2.49	0.41
15:H:147:ILE:HD13	15:H:156:VAL:HA	2.03	0.41
15:H:185:LEU:HB2	15:H:186:PRO:HD3	2.02	0.41
15:H:407:ILE:HD13	15:H:440:GLU:OE2	2.21	0.41
16:I:400:GLY:O	16:I:404:LEU:HG	2.20	0.41
17:J:31:GLU:O	17:J:35:ARG:N	2.27	0.41
17:J:153:LEU:HD11	17:J:327:ILE:HD11	2.02	0.41
18:K:116:MET:HB3	18:K:118:TYR:CE2	2.56	0.41
18:K:155:ASP:CB	19:L:142:LYS:NZ	2.82	0.41
18:K:247:LEU:HD21	18:K:290:ARG:HD3	2.03	0.41
18:K:270:PHE:CZ	18:K:317:ALA:HB2	2.53	0.41
18:K:281:ARG:NH2	18:K:284:ALA:HA	2.35	0.41
18:K:353:PHE:HB3	18:K:368:LEU:HB3	2.02	0.41
18:K:371:LEU:HD11	18:K:407:LEU:HD13	2.03	0.41
19:L:135:VAL:HG12	19:L:155:ILE:HG21	2.02	0.41
19:L:182:GLY:CA	19:L:363:ILE:HG21	2.51	0.41
19:L:246:SER:HB2	19:L:266:MET:SD	2.60	0.41
19:L:363:ILE:HG23	19:L:367:LYS:HZ1	1.82	0.41
20:M:236:ALA:HA	20:M:277:ILE:HD12	2.02	0.41
20:M:258:GLU:O	20:M:262:LEU:HG	2.20	0.41
21:N:103:SER:O	21:N:104:LYS:C	2.62	0.41
21:N:423:LEU:O	21:N:427:ILE:N	2.34	0.41
21:N:495:PRO:HB2	21:N:499:HIS:CE1	2.55	0.41
21:N:504:TYR:CA	21:N:507:GLU:HB3	2.47	0.41
21:N:575:ALA:HB2	21:N:587:ALA:HB3	2.02	0.41
21:N:769:PRO:HG3	21:N:890:PHE:HE2	1.79	0.41
22:O:102:LEU:C	22:O:105:GLN:H	2.26	0.41
22:O:302:VAL:HG13	22:O:303:LYS:N	2.34	0.41
22:O:344:VAL:C	22:O:346:GLU:H	2.28	0.41
22:O:384:MET:SD	28:U:190:LEU:HD13	2.60	0.41
23:P:193:TYR:O	23:P:196:ALA:HB3	2.20	0.41
23:P:210:ASN:HB3	23:P:213:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:425:HIS:HD2	28:U:232:VAL:C	2.28	0.41
24:Q:51:ARG:CZ	24:Q:85:MET:HE3	2.50	0.41
24:Q:53:GLU:O	24:Q:56:THR:HB	2.19	0.41
24:Q:131:VAL:HA	24:Q:134:LYS:CE	2.50	0.41
24:Q:212:THR:HG22	24:Q:245:SER:HB3	2.02	0.41
24:Q:275:ILE:HD13	24:Q:303:ALA:HB1	2.01	0.41
24:Q:279:LYS:O	24:Q:282:LEU:N	2.53	0.41
24:Q:344:GLU:O	24:Q:345:SER:C	2.64	0.41
24:Q:380:MET:HG3	24:Q:385:ILE:HB	2.02	0.41
26:S:471:LEU:HD22	28:U:292:ILE:HD12	1.72	0.41
27:T:111:LEU:HB3	27:T:174:PHE:CE1	2.55	0.41
27:T:142:LEU:C	27:T:145:PRO:HD2	2.46	0.41
27:T:179:ASP:O	27:T:182:LYS:HB2	2.21	0.41
28:U:37:ILE:HG23	28:U:92:TRP:C	2.45	0.41
28:U:265:LEU:O	28:U:268:LYS:HB2	2.20	0.41
28:U:291:LEU:HD13	28:U:295:LYS:HE3	2.02	0.41
30:W:1:MET:HB2	30:W:43:SER:HB3	2.02	0.41
30:W:15:TYR:CD2	30:W:115:CYS:HA	2.55	0.41
30:W:23:ARG:HE	30:W:27:GLU:CG	2.29	0.41
31:X:28:PRO:C	31:X:29:VAL:HG22	2.44	0.41
33:Z:389:PHE:O	33:Z:857:LEU:HG	2.20	0.41
33:Z:497:PHE:HD1	33:Z:500:SER:HB2	1.85	0.41
33:Z:765:MET:N	33:Z:776:VAL:HG21	2.34	0.41
33:Z:793:PHE:HB3	33:Z:829:GLN:C	2.44	0.41
33:Z:848:THR:O	33:Z:852:GLN:N	2.29	0.41
8:a:53:VAL:O	8:a:54:ILE:HD13	2.19	0.41
8:a:81:MET:HB3	8:a:81:MET:HE2	1.83	0.41
8:a:126:GLN:NE2	9:b:84:VAL:HG22	2.35	0.41
9:b:68:THR:HB	9:b:69:PRO:HD2	2.01	0.41
9:b:94:HIS:HA	9:b:98:LYS:CB	2.40	0.41
10:c:207:THR:O	10:c:210:ARG:N	2.53	0.41
11:d:119:ARG:NH1	11:d:119:ARG:HB2	2.35	0.41
12:e:44:GLU:HB2	12:e:193:LEU:HB2	2.02	0.41
12:e:61:SER:HA	12:e:64:ILE:HD12	2.02	0.41
12:e:70:ILE:O	7:l:143:LEU:HD13	2.21	0.41
12:e:205:LYS:HZ1	12:e:211:LYS:CG	2.33	0.41
13:f:28:ALA:HA	13:f:31:GLN:HB3	2.01	0.41
13:f:148:GLN:C	13:f:150:SER:N	2.78	0.41
14:g:87:HIS:NE2	14:g:119:TYR:OH	2.53	0.41
14:g:191:GLU:CD	14:g:194:LYS:HD2	2.45	0.41
3:h:102:LYS:O	3:h:106:TYR:N	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:h:103:GLU:OE2	3:h:107:GLU:HG3	2.20	0.41
3:h:174:ILE:HG22	3:h:194:MET:HE2	2.02	0.41
4:i:69:LYS:HE2	4:i:211:LYS:O	2.19	0.41
5:j:56:LEU:HB3	5:j:59:ASP:OD2	2.20	0.41
6:k:2:ASP:HB2	6:k:3:ILE:H	1.52	0.41
6:k:41:HIS:NE2	6:k:186:LYS:C	2.79	0.41
6:k:42:THR:C	6:k:189:ILE:HD11	2.45	0.41
6:k:87:GLU:O	6:k:90:LYS:HB2	2.20	0.41
6:k:88:LEU:HA	6:k:91:SER:OG	2.20	0.41
1:1:153:GLU:OE1	1:1:156:ARG:HB2	2.20	0.41
1:1:175:PHE:CD2	1:1:191:LEU:HD23	2.55	0.41
1:1:185:GLY:HA3	4:4:240:ALA:CB	2.48	0.41
3:3:72:GLN:C	4:4:113:LYS:NZ	2.78	0.41
3:3:103:GLU:OE2	3:3:107:GLU:HG3	2.20	0.41
3:3:109:LYS:C	3:3:112:LEU:H	2.28	0.41
3:3:162:ARG:NH2	3:3:169:GLU:HB3	2.35	0.41
3:3:174:ILE:HG22	3:3:194:MET:HE2	2.02	0.41
4:4:141:SER:O	4:4:148:THR:HA	2.21	0.41
4:4:225:ARG:HH22	5:5:152:SER:HA	1.85	0.41
4:4:245:SER:N	5:5:197:LYS:O	2.42	0.41
5:5:16:THR:HG23	5:5:121:ILE:HD13	2.03	0.41
6:6:39:SER:OG	6:6:42:THR:N	2.54	0.41
6:6:177:LYS:NZ	6:k:170:LYS:HA	2.36	0.41
7:7:179:TYR:CD1	7:7:179:TYR:C	2.98	0.41
7:7:241:HIS:CE1	5:j:183:TRP:CE2	3.08	0.41
1:8:57:ARG:NH2	4:i:193:TRP:C	2.72	0.41
8:A:66:PRO:HD3	14:G:161:LYS:HE3	2.01	0.41
8:A:79:ILE:HA	8:A:145:SER:HB3	2.03	0.41
8:A:92:ASN:HD22	8:A:137:LEU:HD11	1.85	0.41
9:B:16:GLY:HA3	10:C:28:SER:HB2	2.01	0.41
11:D:68:ASP:C	11:D:71:VAL:H	2.27	0.41
13:F:156:LEU:HA	14:G:58:LEU:O	2.21	0.41
14:G:222:SER:OG	14:G:223:GLU:N	2.53	0.41
16:I:249:GLY:O	16:I:253:ILE:N	2.53	0.41
16:I:355:LEU:HD23	16:I:358:LYS:NZ	2.35	0.41
17:J:26:LYS:HE3	17:J:26:LYS:HB2	1.69	0.41
17:J:49:ASN:O	17:J:53:ASP:CG	2.64	0.41
17:J:114:CYS:CB	17:J:123:HIS:HB3	2.48	0.41
17:J:210:PHE:CE1	17:J:246:PHE:HB2	2.56	0.41
17:J:331:HIS:HD2	17:J:358:VAL:HG12	1.85	0.41
18:K:356:ILE:HG21	18:K:387:MET:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:147:THR:HB	19:L:157:ARG:N	2.35	0.41
20:M:357:ARG:NH2	20:M:385:GLU:H	2.18	0.41
20:M:368:MET:HB3	20:M:410:VAL:CG2	2.51	0.41
20:M:401:ILE:HD13	20:M:417:GLU:CB	2.50	0.41
21:N:9:LEU:HD13	21:N:28:ILE:HG12	2.03	0.41
21:N:209:LYS:O	21:N:213:PHE:N	2.39	0.41
21:N:277:LEU:HG	21:N:282:TYR:HB3	2.01	0.41
21:N:372:GLY:O	21:N:376:LYS:N	2.54	0.41
21:N:526:TYR:H	21:N:528:ARG:HG3	1.85	0.41
21:N:710:GLY:C	21:N:712:ASN:H	2.28	0.41
21:N:731:VAL:HB	21:N:751:LEU:CD1	2.50	0.41
22:O:30:GLU:HG3	22:O:40:GLN:OE1	2.20	0.41
22:O:273:GLN:O	22:O:276:LYS:HE2	2.19	0.41
23:P:53:ALA:O	23:P:54:SER:OG	2.30	0.41
23:P:168:TYR:OH	23:P:175:GLU:HG2	2.21	0.41
23:P:214:GLU:O	23:P:217:LYS:HB2	2.20	0.41
23:P:217:LYS:HD3	23:P:217:LYS:HA	1.90	0.41
23:P:223:LEU:O	23:P:227:ILE:HG13	2.21	0.41
23:P:430:GLY:O	23:P:433:ILE:N	2.37	0.41
24:Q:97:LEU:HD21	24:Q:121:SER:HB3	2.01	0.41
24:Q:155:LEU:HD11	24:Q:188:LEU:CD1	2.50	0.41
24:Q:277:ASP:O	24:Q:281:ILE:HG13	2.20	0.41
25:R:57:GLU:OE1	25:R:143:GLN:HB3	2.19	0.41
25:R:66:LEU:HD12	25:R:69:GLU:CB	2.50	0.41
25:R:109:LYS:HB3	25:R:140:TYR:CE2	2.56	0.41
25:R:163:SER:OG	25:R:166:ALA:N	2.41	0.41
25:R:331:ARG:NH1	25:R:370:LYS:HD2	2.33	0.41
25:R:351:LYS:N	25:R:386:GLY:O	2.33	0.41
26:S:332:PHE:C	26:S:334:HIS:N	2.77	0.41
26:S:356:ASP:CB	26:S:359:LYS:HE3	2.45	0.41
27:T:131:LYS:HB2	27:T:135:ASN:ND2	2.35	0.41
28:U:37:ILE:HA	28:U:51:SER:CB	2.50	0.41
28:U:67:PHE:CE1	30:W:97:THR:HA	2.55	0.41
28:U:126:LYS:HA	29:V:208:LYS:HZ3	1.85	0.41
28:U:205:LYS:O	28:U:209:GLU:HG3	2.21	0.41
29:V:142:ASP:CG	29:V:145:GLN:H	2.28	0.41
29:V:256:GLU:OE1	29:V:256:GLU:HA	2.20	0.41
30:W:6:THR:HA	30:W:109:ARG:HB3	2.01	0.41
30:W:52:ILE:HA	30:W:62:LEU:H	1.85	0.41
30:W:56:GLY:CA	30:W:83:GLY:HA3	2.51	0.41
33:Z:130:GLY:O	33:Z:157:LEU:HD21	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:202:ARG:O	33:Z:206:ASP:N	2.54	0.41
33:Z:225:LEU:HD13	33:Z:257:PRO:HG3	2.03	0.41
33:Z:516:THR:HG23	33:Z:562:TRP:CG	2.55	0.41
33:Z:537:THR:N	33:Z:573:LEU:O	2.54	0.41
33:Z:539:ASN:HB3	33:Z:542:ILE:CG2	2.48	0.41
33:Z:557:GLU:OE1	33:Z:562:TRP:CD1	2.74	0.41
8:a:79:ILE:HA	8:a:145:SER:HB3	2.03	0.41
9:b:39:ALA:N	9:b:42:GLY:O	2.51	0.41
9:b:181:ASP:OD1	9:b:181:ASP:N	2.52	0.41
9:b:205:ASN:N	9:b:208:THR:OG1	2.46	0.41
9:b:216:ASP:O	9:b:234:ARG:HA	2.20	0.41
11:d:47:GLU:HB3	11:d:203:VAL:HG22	2.02	0.41
11:d:66:LYS:HG3	11:d:68:ASP:O	2.20	0.41
11:d:135:ILE:N	11:d:148:TYR:O	2.54	0.41
11:d:149:GLN:O	11:d:156:TYR:HA	2.20	0.41
12:e:157:HIS:CE1	12:e:159:GLU:HG2	2.56	0.41
13:f:63:ILE:HA	13:f:73:SER:HA	2.02	0.41
13:f:204:GLU:HG3	13:f:205:SER:O	2.21	0.41
14:g:135:SER:HA	14:g:151:LEU:O	2.20	0.41
14:g:232:LYS:HA	14:g:236:LEU:HD22	2.02	0.41
3:h:37:SER:OG	3:h:190:GLY:HA3	2.20	0.41
3:h:86:THR:HA	3:h:90:GLY:C	2.46	0.41
5:j:18:LYS:HB2	5:j:157:ASN:C	2.45	0.41
5:j:23:ILE:CG2	5:j:188:TYR:HB2	2.50	0.41
5:j:27:LEU:HD21	5:j:186:VAL:CG1	2.49	0.41
5:j:60:VAL:HG22	5:j:105:VAL:HG12	2.02	0.41
5:j:107:PRO:HD2	5:j:124:PHE:C	2.46	0.41
6:k:166:GLN:HA	6:k:169:GLU:OE1	2.20	0.41
1:1:206:SER:HA	1:1:209:SER:HB2	2.02	0.41
2:2:60:LEU:HB2	2:2:70:ASN:ND2	2.36	0.41
2:2:264:GLN:CD	3:3:55:ARG:H	2.29	0.41
3:3:20:THR:C	3:3:188:SER:OG	2.63	0.41
3:3:22:ILE:HD12	3:3:63:CYS:HB3	2.03	0.41
5:5:11:ILE:N	5:5:26:ASP:OD1	2.38	0.41
5:5:107:PRO:HD2	5:5:124:PHE:C	2.46	0.41
6:6:34:LYS:HE2	6:6:34:LYS:HB2	1.91	0.41
6:6:66:LEU:CD2	6:6:70:ARG:HH22	2.33	0.41
6:6:170:LYS:HA	6:k:177:LYS:HZ2	1.86	0.41
6:6:193:ASP:OD1	6:6:194:ASP:N	2.54	0.41
7:7:82:ARG:HA	7:7:87:ILE:HG12	2.02	0.41
7:7:128:GLN:NE2	1:8:150:TYR:O	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:220:GLY:O	1:8:238:LEU:HD12	2.21	0.41
2:9:207:GLU:O	2:9:210:ILE:HB	2.20	0.41
2:9:254:PHE:CA	2:9:256:LYS:NZ	2.82	0.41
8:A:104:PHE:CD2	8:A:108:TYR:CD2	3.08	0.41
8:A:126:GLN:O	8:A:129:THR:HB	2.20	0.41
8:A:130:GLN:HG3	9:B:128:ARG:HG3	2.03	0.41
10:C:189:ALA:O	10:C:190:ILE:C	2.63	0.41
11:D:15:GLY:HA3	12:E:26:TYR:O	2.21	0.41
11:D:46:CYS:O	11:D:211:GLU:HG2	2.21	0.41
11:D:67:ILE:HB	11:D:71:VAL:HG12	2.02	0.41
11:D:73:LEU:CD1	11:D:135:ILE:HG12	2.44	0.41
11:D:119:ARG:NH1	11:D:119:ARG:HB2	2.35	0.41
11:D:190:GLU:HG3	11:D:191:CYS:N	2.36	0.41
12:E:47:VAL:HG11	12:E:197:GLU:HA	2.02	0.41
12:E:118:ASP:O	12:E:122:ARG:NE	2.53	0.41
13:F:158:GLY:O	13:F:159:THR:HB	2.20	0.41
14:G:12:ASN:HD22	14:G:130:ARG:H	1.69	0.41
14:G:88:LEU:CA	14:G:91:ARG:HB3	2.49	0.41
14:G:103:TYR:C	14:G:105:THR:N	2.78	0.41
14:G:209:GLU:OE2	14:G:210:LYS:NZ	2.53	0.41
14:G:220:SER:N	14:G:224:THR:OG1	2.47	0.41
15:H:406:LEU:N	15:H:409:ARG:NH1	2.68	0.41
16:I:246:ARG:HA	16:I:280:PHE:CD2	2.55	0.41
18:K:63:LEU:O	18:K:64:GLN:C	2.64	0.41
18:K:83:GLN:O	18:K:86:VAL:HB	2.21	0.41
18:K:216:GLY:H	18:K:220:THR:CB	2.33	0.41
18:K:253:MET:SD	18:K:256:ASP:HB2	2.60	0.41
20:M:34:ALA:O	20:M:35:LYS:C	2.64	0.41
20:M:174:GLU:OE1	20:M:242:THR:HG23	2.20	0.41
20:M:260:ALA:HB1	20:M:264:ARG:NH1	2.36	0.41
21:N:109:TYR:CA	21:N:133:LEU:HD21	2.49	0.41
21:N:293:LEU:HA	21:N:296:CYS:HB2	2.02	0.41
21:N:387:ALA:O	21:N:393:SER:OG	2.37	0.41
21:N:716:GLN:HB3	21:N:719:ASN:OD1	2.21	0.41
21:N:772:GLN:HG2	21:N:870:ASN:N	2.35	0.41
22:O:8:ASP:CB	22:O:26:PHE:HE2	2.33	0.41
22:O:228:TYR:HB3	22:O:229:ASN:C	2.45	0.41
22:O:229:ASN:O	22:O:258:LEU:HD22	2.21	0.41
22:O:248:TYR:HA	22:O:251:LEU:HD12	2.02	0.41
22:O:310:PHE:CD2	22:O:346:GLU:C	2.99	0.41
22:O:338:LYS:O	22:O:350:ILE:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:340:SER:N	22:O:349:THR:HB	2.35	0.41
23:P:112:LEU:HD22	23:P:115:ARG:NH1	2.36	0.41
23:P:123:ARG:HG2	23:P:129:LYS:HE3	2.01	0.41
23:P:177:ILE:O	23:P:180:ILE:HB	2.19	0.41
23:P:207:THR:HA	23:P:210:ASN:CG	2.46	0.41
23:P:407:ASN:O	23:P:409:SER:N	2.54	0.41
23:P:420:ASP:HA	23:P:423:LEU:HD12	2.01	0.41
24:Q:31:LEU:HB3	24:Q:42:ALA:O	2.20	0.41
24:Q:79:PRO:O	24:Q:82:THR:HB	2.21	0.41
24:Q:146:TYR:C	24:Q:149:LYS:H	2.29	0.41
24:Q:178:HIS:HB3	24:Q:197:SER:C	2.45	0.41
24:Q:313:ASP:O	24:Q:316:THR:HB	2.21	0.41
24:Q:347:LEU:HD23	24:Q:350:ILE:HD12	2.01	0.41
24:Q:387:TYR:HB3	24:Q:400:TYR:CD2	2.55	0.41
25:R:107:GLU:OE2	25:R:111:LYS:HB2	2.21	0.41
25:R:413:LYS:HG2	25:R:416:LYS:NZ	2.35	0.41
26:S:239:ARG:NH1	26:S:239:ARG:HG2	2.35	0.41
26:S:254:ILE:O	26:S:255:SER:C	2.64	0.41
26:S:315:LYS:HG2	26:S:345:TYR:HE2	1.86	0.41
26:S:351:ALA:CB	26:S:360:PHE:HA	2.50	0.41
26:S:453:ASP:OD1	26:S:453:ASP:N	2.53	0.41
27:T:55:LEU:CA	27:T:58:THR:HB	2.48	0.41
27:T:104:LYS:O	27:T:107:SER:HB2	2.19	0.41
29:V:106:GLY:HA3	29:V:137:VAL:HG22	2.02	0.41
29:V:296:LEU:HD12	29:V:296:LEU:HA	1.92	0.41
30:W:46:GLU:O	30:W:46:GLU:HG2	2.19	0.41
30:W:52:ILE:C	30:W:62:LEU:HG	2.46	0.41
30:W:56:GLY:N	30:W:83:GLY:HA3	2.35	0.41
31:X:85:ARG:O	31:X:101:LEU:HB2	2.20	0.41
31:X:90:VAL:HG13	31:X:93:SER:HA	2.02	0.41
33:Z:224:LEU:HA	33:Z:227:ILE:HB	2.03	0.41
33:Z:257:PRO:HA	33:Z:258:PRO:HD3	1.96	0.41
33:Z:327:GLN:C	33:Z:329:ILE:H	2.28	0.41
33:Z:327:GLN:NE2	33:Z:331:GLY:HA3	2.36	0.41
33:Z:624:LEU:HD21	33:Z:739:ALA:C	2.46	0.41
33:Z:920:GLY:CA	33:Z:982:ILE:HD13	2.50	0.41
8:a:36:ASN:HB3	8:a:173:PRO:HG3	2.02	0.41
8:a:123:ASN:ND2	9:b:83:ARG:HE	2.17	0.41
8:a:158:ASP:CG	8:a:160:ALA:H	2.28	0.41
9:b:64:VAL:HG11	9:b:212:ALA:HB3	2.02	0.41
9:b:166:LYS:HE3	9:b:166:LYS:HB3	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:c:186:VAL:HG12	10:c:190:ILE:HG13	2.03	0.41
11:d:37:LYS:CB	11:d:42:VAL:HG22	2.50	0.41
11:d:190:GLU:HG3	11:d:191:CYS:N	2.36	0.41
13:f:11:VAL:HG23	14:g:130:ARG:CB	2.51	0.41
14:g:109:ILE:HB	14:g:110:PRO:HD3	2.03	0.41
3:h:38:ARG:NH2	3:h:189:GLY:HA3	2.35	0.41
3:h:162:ARG:O	3:h:165:MET:HG3	2.21	0.41
4:i:225:ARG:HG2	4:i:226:GLU:O	2.21	0.41
5:j:85:GLU:OE2	5:j:120:PHE:CG	2.74	0.41
7:l:143:LEU:HD23	7:l:143:LEU:HA	1.85	0.41
2:2:84:VAL:HG12	2:2:86:ILE:HG13	2.03	0.41
3:3:86:THR:HA	3:3:90:GLY:C	2.46	0.41
4:4:61:ALA:HA	4:4:217:ARG:NH1	2.35	0.41
7:7:134:LEU:HA	7:7:134:LEU:HD12	1.84	0.41
7:7:162:VAL:O	7:7:165:TYR:N	2.54	0.41
1:8:93:TRP:O	1:8:94:TYR:C	2.62	0.41
1:8:145:ASP:OD2	1:8:147:VAL:HG22	2.20	0.41
1:8:170:ASP:O	1:8:176:LYS:N	2.31	0.41
1:8:175:PHE:CD2	1:8:191:LEU:HD23	2.55	0.41
2:9:241:PHE:HE2	2:9:243:LYS:HG2	1.84	0.41
8:A:80:GLY:HA3	8:A:233:PHE:CG	2.55	0.41
8:A:130:GLN:HE21	9:B:121:ALA:HB1	1.86	0.41
8:A:167:LYS:HG3	9:B:57:MET:HG2	2.02	0.41
9:B:20:GLN:HA	9:B:23:TYR:CD2	2.56	0.41
9:B:76:SER:OG	9:B:164:ILE:HG13	2.21	0.41
10:C:4:ARG:O	11:D:6:ARG:NH2	2.52	0.41
10:C:15:PRO:O	11:D:25:GLU:HG3	2.21	0.41
10:C:31:HIS:O	10:C:51:LYS:HE3	2.20	0.41
11:D:44:LEU:HD21	11:D:136:ALA:HB2	2.02	0.41
11:D:81:ASP:CG	11:D:127:ARG:HH22	2.27	0.41
11:D:132:SER:HB3	11:D:150:THR:O	2.20	0.41
12:E:48:LEU:HB2	12:E:220:SER:OG	2.20	0.41
12:E:87:SER:OG	12:E:88:MET:N	2.52	0.41
13:F:3:ARG:HH21	13:F:20:PHE:HB3	1.86	0.41
13:F:114:ASP:OD2	14:G:90:ASN:OD1	2.38	0.41
13:F:171:TYR:HB3	13:F:199:GLN:HG3	2.02	0.41
13:F:176:LEU:HD13	14:G:58:LEU:HD23	2.02	0.41
13:F:204:GLU:HG3	13:F:205:SER:O	2.21	0.41
14:G:87:HIS:NE2	14:G:119:TYR:OH	2.53	0.41
14:G:113:ALA:O	14:G:116:LEU:N	2.53	0.41
14:G:194:LYS:HB3	14:G:242:PHE:CG	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:H:104:LYS:N	15:H:144:LYS:HE3	2.32	0.41
15:H:297:MET:HE2	15:H:301:LYS:HZ1	1.85	0.41
15:H:399:GLU:HG2	15:H:401:GLY:H	1.85	0.41
16:I:89:GLN:HA	16:I:92:GLU:CG	2.51	0.41
16:I:198:VAL:HG13	16:I:323:LYS:HG3	2.03	0.41
17:J:115:LEU:HD12	17:J:122:LEU:HD23	2.03	0.41
17:J:174:PHE:HD2	17:J:181:GLN:HB2	1.85	0.41
18:K:62:THR:O	18:K:65:GLU:HB2	2.19	0.41
18:K:79:LEU:HG	18:K:83:GLN:HB2	2.03	0.41
18:K:172:ALA:CA	18:K:181:LYS:HZ3	2.32	0.41
18:K:273:GLU:HA	18:K:317:ALA:O	2.21	0.41
19:L:131:VAL:HB	19:L:135:VAL:HG21	2.03	0.41
19:L:147:THR:OG1	19:L:159:LEU:HD21	2.20	0.41
19:L:187:THR:HA	19:L:190:ILE:HB	2.03	0.41
19:L:348:GLU:C	19:L:349:ILE:HG13	2.44	0.41
19:L:365:THR:HG23	19:L:391:ILE:CG2	2.51	0.41
19:L:411:ASN:H	19:L:414:ASP:HB2	1.85	0.41
20:M:22:ILE:HG12	20:M:25:LEU:HD12	2.02	0.41
20:M:227:GLY:O	20:M:231:LEU:HG	2.19	0.41
21:N:239:LEU:HD21	21:N:276:GLU:HB3	2.03	0.41
21:N:398:ARG:HG3	21:N:438:ASP:CG	2.46	0.41
21:N:581:ASP:HB3	21:N:616:HIS:CG	2.55	0.41
21:N:615:ALA:O	21:N:618:ARG:N	2.54	0.41
21:N:762:ARG:HD3	21:N:766:GLN:HA	2.03	0.41
22:O:33:TYR:CZ	22:O:57:LEU:HB2	2.56	0.41
22:O:167:ILE:CG2	22:O:168:THR:H	2.28	0.41
22:O:185:PHE:CE2	22:O:223:LEU:HB3	2.56	0.41
23:P:177:ILE:HB	23:P:203:ILE:CD1	2.48	0.41
23:P:276:LEU:HD23	23:P:276:LEU:HA	1.87	0.41
23:P:341:LEU:CA	23:P:344:ARG:HB3	2.45	0.41
24:Q:63:GLN:HE21	24:Q:103:LYS:HB3	1.86	0.41
24:Q:138:SER:CB	24:Q:161:LEU:HD21	2.50	0.41
24:Q:236:PHE:HB2	24:Q:268:SER:CB	2.51	0.41
25:R:33:LEU:HD11	25:R:89:ASN:ND2	2.35	0.41
25:R:53:LYS:O	25:R:56:GLU:HB3	2.21	0.41
25:R:171:MET:CE	25:R:206:ARG:HB3	2.50	0.41
25:R:266:LEU:CB	25:R:270:VAL:HG22	2.51	0.41
25:R:335:ARG:CZ	25:R:371:PHE:HB3	2.50	0.41
26:S:399:TYR:CD2	26:S:401:LYS:HB2	2.55	0.41
27:T:113:LEU:HA	27:T:116:GLN:HB2	2.01	0.41
27:T:148:LEU:O	27:T:152:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:188:GLU:O	27:T:191:LYS:N	2.54	0.41
27:T:200:LEU:HD12	27:T:200:LEU:HA	1.95	0.41
28:U:132:LEU:H	29:V:215:ASN:ND2	2.12	0.41
29:V:101:ASP:O	29:V:102:GLN:NE2	2.53	0.41
29:V:127:LYS:HA	29:V:130:GLU:CD	2.42	0.41
31:X:14:VAL:HG23	31:X:50:TRP:CG	2.55	0.41
33:Z:151:HIS:C	33:Z:153:TYR:N	2.78	0.41
33:Z:366:LYS:HD2	33:Z:859:LYS:HB3	2.02	0.41
33:Z:377:ALA:HB1	33:Z:409:LYS:O	2.21	0.41
8:a:75:ILE:HG12	8:a:80:GLY:C	2.45	0.41
8:a:220:LYS:NZ	8:a:239:GLU:OE2	2.28	0.41
9:b:180:ASN:O	9:b:183:LEU:HG	2.20	0.41
10:c:186:VAL:O	10:c:190:ILE:HG13	2.20	0.41
10:c:190:ILE:HG21	10:c:238:ILE:HG12	2.02	0.41
10:c:208:TYR:CG	10:c:209:ASP:N	2.89	0.41
11:d:67:ILE:HB	11:d:71:VAL:HG12	2.02	0.41
11:d:193:LYS:O	11:d:197:ARG:HG3	2.20	0.41
12:e:236:THR:HG22	12:e:240:ILE:CD1	2.48	0.41
13:f:201:LEU:HD13	13:f:205:SER:HA	2.03	0.41
14:g:9:ASP:O	14:g:23:GLN:HG2	2.19	0.41
14:g:200:ILE:O	14:g:201:TYR:C	2.63	0.41
14:g:209:GLU:OE2	14:g:210:LYS:NZ	2.53	0.41
3:h:12:LYS:HB3	4:i:145:HIS:CE1	2.56	0.41
3:h:162:ARG:NH2	3:h:169:GLU:HB3	2.35	0.41
4:i:141:SER:O	4:i:148:THR:HA	2.21	0.41
5:j:142:ALA:O	5:j:143:SER:C	2.63	0.41
5:j:193:ASP:OD1	5:j:193:ASP:N	2.52	0.41
6:k:193:ASP:OD1	6:k:194:ASP:N	2.54	0.41
7:l:177:CYS:SG	7:l:187:ILE:HG23	2.61	0.41
1:1:61:LYS:O	1:1:72:SER:OG	2.33	0.41
2:2:152:VAL:HG22	2:2:158:GLN:HA	2.02	0.41
2:2:243:LYS:HB3	2:2:243:LYS:HE3	1.84	0.41
3:3:88:GLN:CG	8:A:98:LYS:HZ2	2.23	0.41
3:3:156:TYR:HE2	3:3:177:SER:OG	2.03	0.41
3:3:198:THR:OG1	3:3:200:ALA:HB3	2.21	0.41
4:4:48:ARG:NH1	4:4:198:SER:C	2.79	0.41
4:4:89:GLY:HA2	4:4:92:ILE:HB	2.03	0.41
4:4:241:VAL:HG13	5:5:198:ARG:HB3	2.03	0.41
5:5:39:LYS:NZ	7:l:284:ASN:O	2.48	0.41
6:6:118:GLN:HE21	6:6:133:HIS:CE1	2.38	0.41
6:6:122:LEU:HA	6:6:122:LEU:HD23	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:146:HIS:HA	7:l:234:ARG:NH2	2.33	0.41
6:6:148:TYR:O	6:6:149:ARG:HD3	2.19	0.41
7:7:87:ILE:HB	7:7:255:VAL:HB	2.01	0.41
7:7:133:TRP:HD1	12:E:101:LEU:HD21	1.85	0.41
1:8:22:ASN:OD1	1:8:24:TYR:N	2.40	0.41
1:8:108:ALA:O	1:8:109:ALA:C	2.64	0.41
1:8:113:GLN:HB2	1:8:150:TYR:CE2	2.47	0.41
2:9:221:ASP:OD2	2:9:223:ARG:HB2	2.19	0.41
8:A:201:LYS:HD3	8:A:201:LYS:HA	1.91	0.41
9:B:38:LYS:HE2	9:B:38:LYS:HB3	1.87	0.41
9:B:216:ASP:O	9:B:234:ARG:HA	2.20	0.41
10:C:80:LEU:H	10:C:133:VAL:HG22	1.82	0.41
10:C:208:TYR:CG	10:C:209:ASP:N	2.89	0.41
12:E:157:HIS:CE1	12:E:159:GLU:HG2	2.56	0.41
13:F:133:LEU:HD21	13:F:161:ILE:HG23	2.03	0.41
13:F:148:GLN:C	13:F:150:SER:N	2.78	0.41
13:F:228:GLU:H	13:F:228:GLU:CD	2.22	0.41
14:G:209:GLU:CD	14:G:210:LYS:NZ	2.79	0.41
15:H:392:HIS:HB2	15:H:423:CYS:SG	2.61	0.41
16:I:112:ILE:HA	16:I:118:ALA:CB	2.50	0.41
17:J:182:PRO:C	17:J:289:LYS:HZ2	2.24	0.41
19:L:76:GLN:HB3	19:L:80:ASN:ND2	2.35	0.41
19:L:148:LEU:C	19:L:156:MET:HG2	2.46	0.41
19:L:194:ARG:HH12	19:L:199:LEU:HD11	1.86	0.41
19:L:361:PHE:O	19:L:365:THR:N	2.42	0.41
19:L:361:PHE:HA	19:L:391:ILE:HG23	2.02	0.41
19:L:373:GLU:O	19:L:412:PRO:HB3	2.21	0.41
20:M:23:LEU:HD23	20:M:23:LEU:HA	1.83	0.41
20:M:36:LEU:O	20:M:70:LYS:HB2	2.20	0.41
20:M:405:ASN:HB3	20:M:411:LYS:HZ1	1.84	0.41
21:N:132:LYS:O	21:N:136:ILE:HG12	2.21	0.41
21:N:223:LEU:CD1	21:N:226:ASN:HD22	2.33	0.41
21:N:287:LEU:HA	21:N:290:LEU:CD1	2.49	0.41
21:N:330:THR:O	21:N:334:VAL:HG23	2.20	0.41
21:N:340:HIS:HA	21:N:343:THR:HB	2.02	0.41
21:N:450:ILE:HD11	21:N:462:VAL:HA	2.02	0.41
21:N:549:TYR:OH	21:N:738:GLN:HG3	2.20	0.41
21:N:653:ARG:HA	21:N:656:ALA:HB3	2.02	0.41
21:N:656:ALA:O	21:N:660:LEU:HG	2.21	0.41
21:N:736:PHE:O	21:N:737:SER:C	2.63	0.41
23:P:122:ILE:HG23	23:P:129:LYS:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:P:167:THR:O	23:P:168:TYR:C	2.64	0.41
23:P:173:MET:O	23:P:176:LYS:N	2.54	0.41
23:P:267:PHE:HE1	23:P:329:PHE:CD1	2.39	0.41
23:P:408:SER:C	23:P:410:GLN:H	2.29	0.41
23:P:419:VAL:O	23:P:423:LEU:HG	2.21	0.41
24:Q:14:LEU:HG	24:Q:17:GLU:OE1	2.19	0.41
24:Q:106:GLN:O	24:Q:107:VAL:C	2.63	0.41
24:Q:130:ARG:HH22	24:Q:137:LEU:HD11	1.85	0.41
24:Q:230:LYS:O	24:Q:231:ASP:HB2	2.19	0.41
24:Q:288:LYS:C	24:Q:290:THR:N	2.77	0.41
24:Q:310:SER:O	24:Q:314:PHE:CD2	2.74	0.41
25:R:34:THR:HA	25:R:70:TYR:HB2	2.02	0.41
25:R:63:TYR:CE2	25:R:94:PHE:CD1	3.09	0.41
25:R:74:ASN:O	25:R:87:SER:OG	2.26	0.41
25:R:175:ALA:O	25:R:179:PHE:HD2	2.03	0.41
25:R:182:ASN:ND2	25:R:320:LYS:HD2	2.35	0.41
25:R:215:GLY:O	25:R:219:LEU:HB2	2.20	0.41
25:R:266:LEU:HB3	25:R:270:VAL:CG2	2.50	0.41
25:R:297:TYR:O	25:R:297:TYR:CG	2.73	0.41
26:S:205:ASN:O	26:S:206:GLN:C	2.62	0.41
26:S:319:CYS:O	26:S:323:LEU:HG	2.20	0.41
27:T:95:LYS:HA	27:T:98:GLU:OE2	2.20	0.41
28:U:21:HIS:CE1	28:U:93:TYR:HH	2.38	0.41
28:U:92:TRP:HZ2	28:U:107:ASN:OD1	2.03	0.41
28:U:234:ASN:O	28:U:261:LEU:HD21	2.20	0.41
28:U:280:ASN:C	28:U:282:VAL:N	2.77	0.41
29:V:29:ILE:HG22	29:V:30:SER:O	2.20	0.41
29:V:68:VAL:O	29:V:69:PHE:HB3	2.21	0.41
29:V:72:PRO:O	29:V:73:GLN:C	2.63	0.41
30:W:68:GLU:CD	30:W:68:GLU:C	2.86	0.41
31:X:36:LYS:HG3	31:X:38:ASN:O	2.21	0.41
31:X:57:VAL:HG12	31:X:57:VAL:O	2.20	0.41
33:Z:108:ASP:O	33:Z:202:ARG:HD2	2.21	0.41
33:Z:145:ASP:HB2	33:Z:154:ILE:HD11	2.02	0.41
33:Z:225:LEU:O	33:Z:228:GLU:HB2	2.20	0.41
33:Z:253:VAL:HG12	33:Z:261:ASP:O	2.19	0.41
33:Z:530:LEU:O	33:Z:573:LEU:HD21	2.20	0.41
33:Z:791:LYS:O	33:Z:794:ASP:N	2.47	0.41
33:Z:913:ILE:HG12	33:Z:963:ALA:C	2.46	0.41
33:Z:914:LEU:H	33:Z:980:VAL:HG22	1.85	0.41
33:Z:966:GLU:H	33:Z:979:GLY:H	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:b:76:SER:OG	9:b:164:ILE:HG13	2.21	0.41
9:b:109:LEU:HD11	5:j:78:GLU:OE2	2.20	0.41
10:c:38:ILE:HD12	10:c:189:ALA:HB1	2.03	0.41
14:g:123:HIS:CE1	14:g:132:PHE:CZ	3.08	0.41
14:g:209:GLU:CD	14:g:210:LYS:NZ	2.79	0.41
3:h:20:THR:H	3:h:187:SER:C	2.28	0.41
3:h:162:ARG:NE	3:h:165:MET:HG2	2.36	0.41
3:h:191:VAL:HB	3:h:207:PHE:O	2.20	0.41
4:i:47:THR:HG21	4:i:201:ASN:HB2	2.02	0.41
4:i:119:TYR:O	4:i:122:HIS:CD2	2.73	0.41
5:j:11:ILE:HG22	5:j:141:THR:N	2.35	0.41
5:j:46:TYR:CG	5:j:71:THR:HG21	2.55	0.41
5:j:113:ASN:OD1	5:j:115:LYS:N	2.53	0.41
6:k:3:ILE:N	6:k:18:SER:OG	2.54	0.41
1:1:108:ALA:O	1:1:112:ILE:HG13	2.20	0.41
1:1:133:LEU:HG	1:1:226:VAL:HG12	2.02	0.41
1:1:167:PRO:HD3	7:l:100:TRP:CH2	2.54	0.41
1:1:168:PHE:HA	5:5:149:MET:SD	2.60	0.41
2:2:99:LEU:HG	2:2:99:LEU:H	1.71	0.41
2:2:253:ASP:CG	2:2:256:LYS:HZ1	2.28	0.41
4:4:42:VAL:CG2	4:4:206:VAL:HG22	2.51	0.41
4:4:46:ASP:CG	4:4:62:LYS:HZ1	2.28	0.41
4:4:78:ALA:HA	4:4:81:THR:OG1	2.20	0.41
5:5:56:LEU:HB3	5:5:59:ASP:OD2	2.20	0.41
5:5:59:ASP:O	5:5:60:VAL:C	2.64	0.41
5:5:142:ALA:O	5:5:143:SER:C	2.63	0.41
6:6:35:THR:O	6:6:36:ARG:HD3	2.21	0.41
1:8:23:PRO:HD3	2:9:140:MET:HE1	2.01	0.41
1:8:215:ILE:HG13	1:8:216:GLN:HG3	2.03	0.41
2:9:60:LEU:HB2	2:9:70:ASN:ND2	2.36	0.41
2:9:115:ASP:OD1	2:9:115:ASP:N	2.48	0.41
2:9:125:ILE:O	2:9:129:LEU:HG	2.20	0.41
2:9:133:MET:HE1	2:9:143:LEU:HB2	2.03	0.41
8:A:78:THR:O	8:A:233:PHE:HB2	2.21	0.41
8:A:198:SER:HB2	8:A:200:GLU:OE1	2.21	0.41
13:F:168:ALA:N	13:F:199:GLN:HB2	2.35	0.41
14:G:39:GLY:HA3	14:G:137:ILE:HG21	2.02	0.41
14:G:109:ILE:HB	14:G:110:PRO:HD3	2.03	0.41
14:G:201:TYR:HA	14:G:204:HIS:HB3	2.03	0.41
15:H:56:LEU:HB3	15:H:60:GLU:OE2	2.21	0.41
15:H:197:MET:HG3	15:H:278:GLU:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:I:94:LYS:O	16:I:97:GLU:HB3	2.21	0.41
16:I:244:PHE:CE2	16:I:246:ARG:HB2	2.55	0.41
16:I:384:LYS:N	16:I:420:LYS:HZ2	2.18	0.41
18:K:56:LYS:NZ	21:N:196:THR:CG2	2.83	0.41
18:K:178:ASP:O	18:K:182:GLN:N	2.28	0.41
18:K:187:ALA:O	18:K:313:LYS:NZ	2.54	0.41
18:K:212:TYR:HB3	18:K:339:GLU:HA	2.01	0.41
18:K:344:ARG:CZ	18:K:380:GLY:H	2.34	0.41
18:K:393:ARG:HB3	18:K:409:GLU:OE1	2.20	0.41
19:L:361:PHE:HA	19:L:391:ILE:CG2	2.50	0.41
20:M:257:GLY:N	20:M:300:GLU:OE2	2.46	0.41
20:M:373:ASP:C	20:M:412:HIS:HB2	2.46	0.41
20:M:377:GLN:HG3	20:M:378:GLU:N	2.36	0.41
21:N:23:TYR:CD2	27:T:35:ILE:HG21	2.56	0.41
21:N:123:PHE:CZ	21:N:161:TYR:HB2	2.44	0.41
21:N:124:TYR:C	21:N:162:ARG:NH1	2.79	0.41
21:N:458:ALA:HA	21:N:488:CYS:SG	2.61	0.41
21:N:526:TYR:C	21:N:528:ARG:N	2.78	0.41
21:N:581:ASP:HB3	21:N:616:HIS:HB2	2.02	0.41
21:N:606:VAL:HG21	21:N:625:LEU:HD22	2.01	0.41
21:N:669:GLU:C	21:N:671:LEU:H	2.27	0.41
21:N:861:TYR:CE2	21:N:863:SER:HB2	2.56	0.41
22:O:93:ASP:O	22:O:94:GLU:C	2.64	0.41
22:O:138:LEU:CD1	22:O:177:GLN:HE22	2.18	0.41
22:O:217:LEU:O	22:O:221:ALA:N	2.53	0.41
22:O:232:GLU:HG2	22:O:233:LEU:N	2.19	0.41
22:O:293:LEU:O	22:O:294:MET:C	2.62	0.41
23:P:74:ASP:O	23:P:78:GLN:HG3	2.19	0.41
23:P:131:PHE:HE2	23:P:171:MET:SD	2.44	0.41
23:P:241:LEU:O	23:P:242:GLN:C	2.64	0.41
23:P:392:LYS:NZ	24:Q:356:CYS:CB	2.84	0.41
24:Q:232:TYR:HA	24:Q:235:ALA:HB3	2.02	0.41
24:Q:271:MET:HG2	24:Q:338:LEU:HD22	2.03	0.41
24:Q:360:SER:O	24:Q:361:HIS:C	2.64	0.41
25:R:413:LYS:HG2	25:R:416:LYS:HZ3	1.86	0.41
26:S:343:LEU:O	26:S:346:TYR:HB3	2.21	0.41
26:S:357:LEU:CD1	26:S:384:ARG:HD3	2.51	0.41
26:S:475:TYR:HB2	28:U:291:LEU:HB3	2.02	0.41
27:T:59:LYS:HZ1	27:T:102:LYS:HD2	1.84	0.41
27:T:157:TYR:OH	27:T:188:GLU:OE1	2.35	0.41
28:U:93:TYR:CD1	28:U:93:TYR:C	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:V:101:ASP:OD1	29:V:102:GLN:N	2.54	0.41
29:V:109:HIS:HB2	29:V:111:HIS:CE1	2.56	0.41
29:V:232:GLU:HG3	29:V:236:SER:OG	2.19	0.41
29:V:252:SER:O	29:V:256:GLU:N	2.45	0.41
31:X:16:GLU:H	31:X:27:ILE:HG21	1.86	0.41
31:X:17:TYR:CG	31:X:97:TYR:HD1	2.38	0.41
33:Z:165:TYR:CE1	33:Z:201:LEU:HD23	2.29	0.41
33:Z:395:CYS:HA	33:Z:425:ILE:HG23	2.03	0.41
33:Z:429:ASN:OD1	33:Z:430:LEU:N	2.54	0.41
33:Z:479:THR:O	33:Z:480:ASN:HB2	2.21	0.41
33:Z:506:LEU:HB2	33:Z:530:LEU:HD22	2.03	0.41
33:Z:532:HIS:HE2	33:Z:906:ALA:HB2	1.85	0.41
33:Z:599:ILE:HG12	33:Z:602:LEU:HD12	2.02	0.41
33:Z:858:GLY:HA3	33:Z:862:MET:CG	2.51	0.41
9:b:61:LEU:HD23	9:b:62:SER:N	2.35	0.41
12:e:87:SER:O	12:e:91:HIS:N	2.35	0.41
12:e:143:LEU:HD23	12:e:143:LEU:HA	1.80	0.41
14:g:74:ILE:HG21	14:g:112:PHE:CE2	2.56	0.41
14:g:85:GLY:O	14:g:89:VAL:HG23	2.20	0.41
14:g:126:TYR:H	14:g:129:VAL:HG21	1.86	0.41
3:h:37:SER:HA	3:h:50:THR:O	2.20	0.41
3:h:103:GLU:O	3:h:104:LEU:C	2.63	0.41
6:k:17:SER:O	6:k:180:ILE:N	2.44	0.41
6:k:162:LYS:NZ	6:k:198:GLN:N	2.54	0.41
6:k:193:ASP:OD1	6:k:193:ASP:N	2.52	0.41
7:l:88:ILE:HG13	7:l:228:ALA:HB1	2.02	0.41
1:1:52:TYR:HA	4:4:196:LEU:HD12	2.03	0.41
1:1:195:SER:HG	1:1:198:GLU:H	1.68	0.41
3:3:151:THR:HA	3:3:154:TYR:CE2	2.56	0.41
3:3:207:PHE:O	3:3:212:TYR:HE2	2.03	0.41
4:4:45:ALA:HA	4:4:188:ILE:HD12	2.03	0.41
4:4:126:TYR:CD1	4:4:143:HIS:HA	2.56	0.41
4:4:218:ASN:HB3	4:4:221:THR:CG2	2.51	0.41
4:4:236:ARG:HH22	5:5:159:GLU:HB3	1.86	0.41
5:5:23:ILE:CG2	5:5:188:TYR:HB2	2.50	0.41
5:5:63:LEU:HD21	5:5:103:TYR:CE2	2.56	0.41
5:5:67:PHE:O	5:5:71:THR:HG23	2.20	0.41
5:5:72:ASN:HD22	10:C:96:GLN:HE22	1.69	0.41
5:5:78:GLU:O	9:B:108:LYS:NZ	2.53	0.41
6:6:8:ARG:HG2	6:6:129:PRO:O	2.19	0.41
6:6:42:THR:C	6:6:189:ILE:HD11	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:56:PHE:O	6:6:59:TYR:HB3	2.21	0.41
6:6:73:TYR:HB2	10:C:143:ARG:NH1	2.36	0.41
6:6:88:LEU:HA	6:6:91:SER:OG	2.20	0.41
7:7:283:ASN:ND2	6:k:150:PRO:HD3	2.35	0.41
1:8:133:LEU:HG	1:8:226:VAL:HG12	2.02	0.41
1:8:218:GLY:HA2	1:8:238:LEU:CB	2.49	0.41
2:9:47:MET:HA	2:9:160:LEU:HD22	2.02	0.41
2:9:113:LEU:O	2:9:116:ALA:N	2.54	0.41
9:B:64:VAL:HG11	9:B:212:ALA:HB3	2.03	0.41
9:B:222:LEU:C	9:B:224:TYR:H	2.29	0.41
10:C:12:ILE:CA	11:D:19:GLN:HE22	2.34	0.41
10:C:35:ALA:HB3	10:C:165:VAL:HG23	2.03	0.41
10:C:121:GLY:O	10:C:125:HIS:CE1	2.74	0.41
10:C:168:ASN:HB3	10:C:171:ALA:HB3	2.02	0.41
10:C:186:VAL:O	10:C:190:ILE:HG13	2.20	0.41
10:C:209:ASP:OD1	10:C:210:ARG:N	2.54	0.41
11:D:34:VAL:HG22	11:D:35:GLY:N	2.36	0.41
11:D:75:PHE:HB2	11:D:131:VAL:CG1	2.51	0.41
11:D:149:GLN:O	11:D:156:TYR:HA	2.20	0.41
11:D:174:PHE:CZ	11:D:197:ARG:HB3	2.56	0.41
11:D:214:VAL:O	11:D:222:VAL:N	2.42	0.41
11:D:227:GLU:OE1	11:D:227:GLU:N	2.31	0.41
12:E:15:PHE:HA	12:E:21:LEU:HD23	2.02	0.41
12:E:40:ILE:O	12:E:47:VAL:N	2.53	0.41
12:E:52:LYS:HB2	12:E:216:ASN:HA	2.03	0.41
12:E:201:LEU:HD11	12:E:212:LEU:HD21	2.03	0.41
13:F:22:VAL:O	13:F:26:LEU:HD13	2.21	0.41
13:F:29:ILE:HD11	13:F:149:PRO:HD2	2.03	0.41
13:F:93:ASN:O	13:F:94:TYR:C	2.63	0.41
13:F:126:ARG:HH12	13:F:128:TYR:HA	1.85	0.41
13:F:168:ALA:H	13:F:200:SER:HG	1.62	0.41
13:F:182:ILE:HG22	13:F:189:LEU:HG	2.02	0.41
14:G:54:ILE:HA	14:G:59:LEU:CD2	2.51	0.41
14:G:67:ILE:HB	14:G:215:GLU:OE2	2.21	0.41
14:G:169:ARG:HB3	14:G:173:LYS:HE3	2.02	0.41
15:H:99:VAL:HG21	15:H:150:LYS:HB2	2.02	0.41
15:H:188:PRO:HA	15:H:189:PRO:HD2	1.97	0.41
15:H:430:ALA:O	15:H:435:ARG:N	2.54	0.41
16:I:105:SER:N	16:I:149:LEU:O	2.48	0.41
16:I:106:ILE:CD1	17:J:85:LEU:HG	2.45	0.41
16:I:317:ASP:OD1	16:I:318:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:J:71:TYR:CE1	17:J:117:SER:HB2	2.56	0.41
17:J:109:ALA:C	17:J:110:SER:HG	2.28	0.41
17:J:181:GLN:O	17:J:311:ASP:OD2	2.39	0.41
17:J:189:GLY:N	17:J:295:ASN:OD1	2.54	0.41
17:J:190:PRO:HG2	17:J:319:PRO:CD	2.50	0.41
17:J:215:GLY:H	17:J:249:GLU:HB2	1.86	0.41
18:K:49:PHE:CE2	21:N:151:LYS:HD3	2.55	0.41
18:K:260:LEU:HG	18:K:264:ASN:ND2	2.35	0.41
18:K:291:GLU:H	18:K:291:GLU:CD	2.20	0.41
19:L:106:GLY:HA2	19:L:122:SER:HB3	2.03	0.41
19:L:139:LYS:O	19:L:144:VAL:HG21	2.20	0.41
19:L:181:ASP:OD1	19:L:181:ASP:N	2.53	0.41
19:L:220:LEU:HD23	19:L:347:VAL:HG21	2.01	0.41
19:L:254:LYS:HE3	20:M:256:ILE:HD11	2.02	0.41
19:L:371:THR:HG23	19:L:409:HIS:HD2	1.86	0.41
20:M:16:ASP:HB3	20:M:20:GLN:CD	2.46	0.41
20:M:121:THR:OG1	20:M:124:ARG:N	2.54	0.41
20:M:151:ASP:C	29:V:46:PRO:HG3	2.46	0.41
20:M:177:THR:HA	20:M:237:ALA:CB	2.47	0.41
20:M:198:VAL:HG22	20:M:239:THR:HG23	2.02	0.41
20:M:270:ALA:O	20:M:274:ALA:N	2.54	0.41
20:M:289:LYS:HA	20:M:302:GLN:HB2	2.03	0.41
20:M:339:ARG:N	20:M:344:ASP:HA	2.36	0.41
20:M:365:SER:OG	20:M:376:TRP:NE1	2.54	0.41
21:N:80:LYS:O	21:N:83:LEU:HB2	2.21	0.41
21:N:85:ALA:HB1	21:N:89:PHE:H	1.85	0.41
21:N:143:LYS:N	21:N:146:LYS:NZ	2.69	0.41
21:N:203:ARG:HA	21:N:206:ILE:CG1	2.51	0.41
21:N:235:ALA:HA	21:N:273:LEU:HD21	2.02	0.41
21:N:300:ASN:HA	21:N:303:LEU:HB2	2.03	0.41
21:N:329:HIS:CE1	21:N:355:TRP:CD2	3.08	0.41
21:N:349:ILE:HD11	21:N:374:ILE:HD13	2.03	0.41
21:N:387:ALA:HB3	21:N:388:PRO:HD3	2.03	0.41
21:N:503:THR:O	21:N:504:TYR:C	2.63	0.41
21:N:593:PHE:C	21:N:595:LEU:N	2.76	0.41
21:N:731:VAL:HG12	21:N:735:MET:CG	2.51	0.41
21:N:775:CYS:HB2	21:N:883:SER:N	2.36	0.41
21:N:884:PHE:CD1	21:N:905:LEU:HD13	2.56	0.41
22:O:7:ILE:HG13	22:O:46:THR:CG2	2.51	0.41
22:O:32:PHE:CD2	22:O:33:TYR:CE1	3.09	0.41
22:O:33:TYR:CE2	22:O:57:LEU:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:40:GLN:HG3	22:O:58:ARG:HD2	2.02	0.41
22:O:76:LEU:O	22:O:78:VAL:N	2.54	0.41
22:O:166:ARG:NH1	22:O:170:SER:CA	2.84	0.41
22:O:206:THR:O	22:O:210:ARG:N	2.40	0.41
22:O:302:VAL:HB	22:O:365:LYS:NZ	2.36	0.41
22:O:383:LYS:HB3	22:O:387:ARG:HB3	2.00	0.41
23:P:124:VAL:CG1	23:P:129:LYS:HB2	2.51	0.41
23:P:131:PHE:HA	23:P:136:ARG:CZ	2.51	0.41
23:P:204:LEU:HA	23:P:204:LEU:HD12	1.82	0.41
23:P:210:ASN:ND2	23:P:213:TYR:HD2	2.18	0.41
23:P:218:LEU:HD23	23:P:221:TYR:CD2	2.56	0.41
23:P:221:TYR:CA	23:P:224:LEU:HB3	2.51	0.41
23:P:394:ASN:OD1	23:P:396:PRO:HD2	2.21	0.41
23:P:435:LYS:NZ	28:U:156:HIS:CB	2.82	0.41
23:P:440:HIS:CE1	23:P:442:LEU:HD12	2.56	0.41
24:Q:135:HIS:O	24:Q:139:ILE:HG13	2.20	0.41
24:Q:165:PHE:HE1	24:Q:169:ASP:OD2	2.03	0.41
24:Q:213:GLN:HA	24:Q:249:LEU:CD1	2.51	0.41
24:Q:279:LYS:O	24:Q:280:ASN:C	2.63	0.41
24:Q:293:SER:O	24:Q:296:ILE:HB	2.20	0.41
24:Q:382:LEU:HG	25:R:263:ARG:NH1	2.36	0.41
24:Q:420:ASN:HD22	25:R:413:LYS:NZ	2.16	0.41
25:R:44:LYS:O	25:R:91:TRP:HZ3	2.04	0.41
25:R:57:GLU:O	25:R:59:MET:HG3	2.20	0.41
25:R:79:LEU:H	25:R:94:PHE:H	1.68	0.41
25:R:104:LYS:O	25:R:105:LYS:C	2.63	0.41
25:R:121:GLU:HG2	25:R:130:GLN:NE2	2.36	0.41
25:R:130:GLN:O	25:R:134:TRP:HD1	2.03	0.41
25:R:366:ASN:O	25:R:370:LYS:N	2.54	0.41
26:S:143:GLN:O	26:S:148:ASP:HB3	2.21	0.41
26:S:179:ILE:HD12	26:S:184:TRP:CH2	2.55	0.41
26:S:180:ASN:O	26:S:184:TRP:CD1	2.74	0.41
26:S:207:ASN:O	26:S:211:ARG:N	2.29	0.41
26:S:364:ILE:O	26:S:368:LYS:N	2.54	0.41
26:S:368:LYS:HG3	26:S:377:TYR:CE1	2.55	0.41
26:S:407:ILE:HD12	26:S:443:ILE:HB	2.01	0.41
26:S:478:SER:O	26:S:481:TYR:HD2	2.04	0.41
27:T:107:SER:OG	27:T:139:ASP:OD2	2.38	0.41
27:T:151:TRP:HZ2	27:T:159:LYS:CE	2.33	0.41
27:T:164:LEU:HD23	27:T:164:LEU:HA	1.72	0.41
27:T:188:GLU:HA	27:T:191:LYS:HZ1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:257:THR:HG22	29:V:295:VAL:HG11	2.00	0.41
28:U:21:HIS:CD2	29:V:100:ARG:NH2	2.89	0.41
28:U:41:ALA:HB2	28:U:90:ILE:HG22	2.01	0.41
28:U:120:LEU:HB3	28:U:137:TYR:HB2	2.03	0.41
28:U:190:LEU:O	28:U:194:LEU:HG	2.20	0.41
28:U:270:ASN:O	28:U:274:MET:HG3	2.21	0.41
29:V:44:GLY:O	29:V:47:MET:N	2.54	0.41
29:V:67:ASP:OD1	29:V:68:VAL:N	2.54	0.41
29:V:88:GLN:CG	29:V:89:ALA:H	2.33	0.41
29:V:94:MET:O	29:V:97:GLN:HB2	2.21	0.41
29:V:251:TYR:O	29:V:254:ARG:N	2.53	0.41
29:V:277:LYS:HA	29:V:280:LEU:HD11	2.02	0.41
30:W:13:SER:H	30:W:16:SER:HB2	1.86	0.41
30:W:20:ASP:H	30:W:25:ARG:CB	2.31	0.41
30:W:33:VAL:O	30:W:36:ILE:HB	2.21	0.41
30:W:66:THR:OG1	30:W:68:GLU:CB	2.68	0.41
30:W:109:ARG:HG2	30:W:110:ILE:N	2.36	0.41
30:W:172:LEU:HB3	30:W:190:ILE:HD12	2.03	0.41
31:X:13:GLY:O	31:X:99:PHE:HB3	2.20	0.41
33:Z:138:ARG:HG2	33:Z:157:LEU:C	2.46	0.41
33:Z:151:HIS:CG	33:Z:152:GLU:N	2.89	0.41
33:Z:221:VAL:O	33:Z:225:LEU:HG	2.20	0.41
33:Z:321:PHE:O	33:Z:327:GLN:HB2	2.21	0.41
33:Z:330:ILE:O	33:Z:341:TYR:CD1	2.74	0.41
33:Z:347:ASN:HB3	33:Z:353:VAL:CG2	2.51	0.41
33:Z:348:LEU:CD1	33:Z:921:GLU:HB2	2.46	0.41
33:Z:431:ASP:HB2	33:Z:468:GLU:OE1	2.21	0.41
33:Z:538:CYS:HB2	33:Z:577:GLN:HG3	2.02	0.41
33:Z:804:ASP:OD1	33:Z:806:GLU:N	2.34	0.41
8:a:26:TYR:HB3	8:a:30:TYR:CE2	2.56	0.41
8:a:115:ASP:OD1	8:a:115:ASP:N	2.53	0.41
8:a:128:TYR:HB2	8:a:136:PRO:HG3	2.03	0.41
8:a:219:SER:H	8:a:222:ASP:CG	2.16	0.41
9:b:20:GLN:HA	9:b:23:TYR:CD2	2.56	0.41
9:b:180:ASN:OD1	9:b:182:GLU:N	2.54	0.41
9:b:190:HIS:NE2	9:b:194:LEU:HD11	2.36	0.41
10:c:208:TYR:HA	10:c:211:LEU:HB2	2.02	0.41
11:d:106:VAL:HG23	11:d:139:ASP:OD1	2.21	0.41
12:e:37:ALA:HB3	12:e:172:ILE:HG13	2.03	0.41
12:e:49:GLY:HA2	12:e:218:GLN:O	2.21	0.41
12:e:52:LYS:HB2	12:e:216:ASN:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:e:98:THR:HG22	12:e:102:TYR:CE2	2.55	0.41
12:e:198:LEU:HD21	12:e:242:GLU:HG2	2.02	0.41
13:f:3:ARG:HH21	13:f:20:PHE:HB3	1.85	0.41
13:f:29:ILE:HD11	13:f:149:PRO:HD2	2.03	0.41
13:f:85:SER:O	13:f:89:ARG:HG3	2.21	0.41
13:f:88:LEU:O	13:f:89:ARG:C	2.62	0.41
14:g:109:ILE:HG12	14:g:142:ASP:CB	2.49	0.41
14:g:169:ARG:HB3	14:g:173:LYS:HE3	2.02	0.41
14:g:231:VAL:HG12	14:g:236:LEU:HB2	2.02	0.41
3:h:15:GLU:OE1	3:h:67:SER:OG	2.34	0.41
3:h:57:HIS:NE2	3:h:91:THR:HG23	2.36	0.41
4:i:61:ALA:HA	4:i:217:ARG:NH1	2.35	0.41
4:i:116:LEU:HB3	4:i:144:ALA:O	2.20	0.41
4:i:218:ASN:HB3	4:i:221:THR:CG2	2.51	0.41
5:j:103:TYR:O	5:j:126:LEU:HB2	2.21	0.41
5:j:118:LYS:HE3	5:j:118:LYS:HB3	1.89	0.41
6:k:20:ALA:HB2	6:k:176:PHE:C	2.46	0.41
6:k:32:ASP:OD2	6:k:33:ASP:O	2.39	0.41
6:k:35:THR:O	6:k:36:ARG:HD3	2.21	0.41
6:k:36:ARG:HG2	6:k:46:PHE:CE2	2.53	0.41
6:k:92:ILE:HA	6:k:92:ILE:HD12	1.87	0.41
6:k:172:MET:HA	6:k:173:PRO:HD3	1.92	0.41
7:l:148:ARG:HH12	7:l:257:GLU:C	2.25	0.41
7:l:275:VAL:HA	7:l:278:GLU:HB2	2.03	0.41
1:1:91:VAL:HG12	1:1:95:HIS:HD2	1.86	0.41
1:1:171:ASN:HD21	5:5:169:GLN:HB3	1.86	0.41
1:1:179:TYR:CE1	1:1:188:LYS:HG2	2.56	0.41
1:1:179:TYR:CB	1:1:185:GLY:HA2	2.51	0.41
2:2:47:MET:HA	2:2:160:LEU:HD22	2.02	0.41
2:2:95:HIS:CE1	2:2:99:LEU:HD21	2.55	0.41
2:2:125:ILE:O	2:2:129:LEU:HG	2.20	0.41
2:2:192:VAL:O	2:2:192:VAL:HG23	2.21	0.41
2:2:198:ILE:O	2:2:201:THR:N	2.45	0.41
2:2:221:ASP:OD1	2:2:223:ARG:N	2.39	0.41
3:3:162:ARG:O	3:3:165:MET:HG3	2.21	0.41
5:5:27:LEU:HD21	5:5:186:VAL:CG1	2.49	0.41
5:5:182:GLY:HA2	5:5:202:MET:CE	2.50	0.41
6:6:49:GLU:HG3	7:7:166:LYS:HZ3	1.85	0.41
7:7:77:THR:H	7:7:92:ASP:CG	2.29	0.41
1:8:40:ALA:HB2	1:8:139:GLY:HA3	2.03	0.41
8:A:14:ARG:O	8:A:27:GLN:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:A:34:ALA:HA	8:A:37:GLN:HB2	2.02	0.41
8:A:91:ARG:HB3	14:G:114:ASP:OD1	2.20	0.41
9:B:61:LEU:HD23	9:B:62:SER:N	2.35	0.41
9:B:80:PRO:HA	9:B:83:ARG:NH1	2.36	0.41
9:B:114:VAL:HA	9:B:117:ILE:CD1	2.49	0.41
9:B:201:GLU:OE1	9:B:201:GLU:N	2.51	0.41
10:C:38:ILE:HD12	10:C:189:ALA:HB1	2.03	0.41
10:C:208:TYR:HA	10:C:211:LEU:HB2	2.02	0.41
11:D:175:LEU:O	11:D:179:TYR:N	2.41	0.41
14:G:38:ILE:CG1	14:G:49:ALA:HB3	2.51	0.41
14:G:67:ILE:HD12	14:G:215:GLU:HG2	2.04	0.41
15:H:72:SER:HB3	15:H:172:MET:SD	2.61	0.41
15:H:183:ILE:C	15:H:185:LEU:HA	2.46	0.41
15:H:381:ASP:C	15:H:385:ARG:NH1	2.79	0.41
17:J:115:LEU:CD2	17:J:120:TYR:HA	2.50	0.41
17:J:245:ILE:HB	17:J:290:ILE:HA	2.02	0.41
18:K:128:ARG:CG	18:K:129:GLU:H	2.29	0.41
18:K:356:ILE:CG2	18:K:387:MET:HB3	2.51	0.41
19:L:105:ILE:HG13	20:M:118:VAL:HG11	2.03	0.41
19:L:145:ARG:HH21	19:L:162:GLU:H	1.69	0.41
20:M:178:GLU:O	20:M:234:ALA:HA	2.20	0.41
20:M:224:PRO:C	20:M:226:THR:N	2.78	0.41
21:N:60:MET:HE2	21:N:88:ARG:NE	2.36	0.41
21:N:225:LEU:HA	21:N:225:LEU:HD23	1.78	0.41
21:N:550:GLY:HA2	21:N:553:PHE:HD2	1.86	0.41
21:N:581:ASP:O	21:N:582:ASP:C	2.63	0.41
21:N:612:SER:HB3	21:N:617:VAL:HG11	2.03	0.41
21:N:623:PHE:O	21:N:626:GLY:N	2.54	0.41
21:N:890:PHE:HE1	21:N:909:GLU:O	2.03	0.41
21:N:890:PHE:CZ	21:N:914:VAL:HG11	2.55	0.41
22:O:189:TYR:HD1	22:O:220:SER:HG	1.68	0.41
23:P:218:LEU:HA	23:P:218:LEU:HD23	1.84	0.41
23:P:228:SER:CA	23:P:231:LYS:HB3	2.49	0.41
23:P:364:ARG:HA	23:P:367:GLU:HB2	2.01	0.41
23:P:409:SER:HB2	23:P:412:LEU:HG	2.01	0.41
24:Q:19:GLN:NE2	24:Q:21:ASN:HB3	2.36	0.41
24:Q:75:ARG:NH1	24:Q:75:ARG:CB	2.84	0.41
24:Q:136:SER:O	24:Q:140:LYS:NZ	2.51	0.41
24:Q:270:ILE:CD1	24:Q:299:MET:HB3	2.51	0.41
24:Q:311:LEU:CD2	24:Q:368:LEU:HB2	2.51	0.41
25:R:48:GLU:HB2	25:R:91:TRP:CZ3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:S:141:LEU:HA	26:S:144:LEU:HD12	2.02	0.41
26:S:151:GLU:OE2	26:S:153:GLU:CB	2.69	0.41
26:S:215:MET:HA	26:S:218:LEU:CG	2.51	0.41
26:S:330:LEU:O	26:S:333:PHE:N	2.54	0.41
27:T:119:THR:HG22	27:T:123:HIS:HD2	1.86	0.41
27:T:255:GLN:OE1	27:T:255:GLN:N	2.46	0.41
27:T:264:MET:O	27:T:268:ILE:HG13	2.21	0.41
28:U:195:LYS:HZ2	29:V:233:LYS:HB3	1.86	0.41
28:U:300:LYS:O	28:U:304:GLN:HB2	2.20	0.41
29:V:52:LEU:HD21	29:V:88:GLN:HB2	2.02	0.41
29:V:58:VAL:HG23	29:V:64:ASN:HD21	1.85	0.41
29:V:206:THR:CG2	29:V:209:GLU:H	2.34	0.41
29:V:207:ALA:O	29:V:211:LYS:NZ	2.54	0.41
29:V:281:SER:O	29:V:283:THR:N	2.54	0.41
30:W:30:ILE:O	30:W:33:VAL:N	2.54	0.41
33:Z:208:VAL:HB	33:Z:209:PRO:CD	2.51	0.41
33:Z:366:LYS:HE2	33:Z:859:LYS:HD2	2.03	0.41
33:Z:549:ASN:HA	33:Z:554:THR:HG23	2.03	0.41
8:a:34:ALA:HA	8:a:37:GLN:HB2	2.02	0.41
8:a:104:PHE:CD2	8:a:108:TYR:CD2	3.08	0.41
8:a:198:SER:HB2	8:a:200:GLU:OE1	2.21	0.41
10:c:75:VAL:CG1	10:c:137:TYR:HD1	2.34	0.41
10:c:80:LEU:H	10:c:133:VAL:HG22	1.82	0.41
11:d:31:THR:HG21	11:d:49:ARG:CB	2.48	0.41
11:d:34:VAL:HG22	11:d:35:GLY:N	2.36	0.41
11:d:44:LEU:HD21	11:d:136:ALA:HB2	2.02	0.41
13:f:74:LEU:HB2	13:f:130:VAL:HG21	2.03	0.41
13:f:86:ASN:HA	13:f:89:ARG:HD2	2.03	0.41
13:f:93:ASN:O	13:f:94:TYR:C	2.63	0.41
14:g:41:LYS:HB3	14:g:161:LYS:O	2.20	0.41
3:h:151:THR:HA	3:h:154:TYR:CE2	2.56	0.41
3:h:162:ARG:HB2	3:h:165:MET:CG	2.52	0.41
4:i:80:ASP:OD1	5:j:99:ARG:NE	2.30	0.41
4:i:143:HIS:N	4:i:147:SER:O	2.54	0.41
7:l:114:PRO:O	7:l:259:GLY:HA3	2.21	0.41
1:1:48:ASN:OD1	1:1:49:ILE:N	2.54	0.40
1:1:181:PRO:HA	4:4:237:GLY:C	2.46	0.40
1:1:220:GLY:O	1:1:238:LEU:HD12	2.21	0.40
2:2:42:THR:C	2:2:74:ARG:NH1	2.69	0.40
2:2:207:GLU:O	2:2:210:ILE:HB	2.21	0.40
3:3:103:GLU:O	3:3:104:LEU:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:112:LEU:HA	3:3:112:LEU:HD23	1.85	0.40
3:3:162:ARG:NE	3:3:165:MET:HG2	2.36	0.40
3:3:191:VAL:HB	3:3:207:PHE:O	2.20	0.40
4:4:59:ASN:HD21	4:4:218:ASN:CG	2.29	0.40
4:4:98:TYR:HA	8:A:119:LYS:HZ3	1.84	0.40
5:5:98:ARG:HG3	5:5:103:TYR:CE2	2.57	0.40
6:6:18:SER:HA	6:6:179:VAL:HA	2.02	0.40
6:6:139:TYR:CE1	6:6:171:ARG:HB3	2.57	0.40
6:6:173:PRO:HD3	6:k:25:ILE:O	2.20	0.40
1:8:52:TYR:HA	4:i:196:LEU:HB2	2.03	0.40
1:8:64:ASP:CG	1:8:66:GLY:H	2.25	0.40
2:9:135:GLN:O	2:9:136:ARG:C	2.64	0.40
2:9:145:ASN:H	2:9:165:LEU:HB3	1.85	0.40
2:9:226:ARG:HG2	2:9:246:GLN:CG	2.50	0.40
8:A:78:THR:OG1	8:A:79:ILE:HG13	2.21	0.40
8:A:91:ARG:CB	14:G:118:GLN:NE2	2.83	0.40
9:B:149:GLN:OE1	9:B:159:TRP:NE1	2.54	0.40
10:C:15:PRO:HA	11:D:22:TYR:CD2	2.56	0.40
10:C:17:GLY:O	11:D:29:ARG:NH1	2.55	0.40
10:C:99:LEU:HG	10:C:100:LYS:N	2.34	0.40
10:C:162:ALA:HB3	11:D:54:LEU:HD21	2.04	0.40
10:C:213:PHE:HE2	10:C:215:THR:HG23	1.86	0.40
11:D:18:PHE:HD1	11:D:21:GLU:OE1	2.04	0.40
11:D:214:VAL:N	11:D:222:VAL:O	2.42	0.40
12:E:48:LEU:HD11	12:E:145:ALA:CB	2.51	0.40
12:E:168:ASN:HB2	13:F:56:LEU:HG	2.02	0.40
12:E:208:MET:HE2	12:E:210:GLU:O	2.21	0.40
12:E:240:ILE:C	12:E:243:LEU:CG	2.80	0.40
13:F:50:LYS:O	13:F:210:ASN:HA	2.21	0.40
13:F:132:LEU:O	13:F:146:GLU:HA	2.21	0.40
13:F:198:SER:HA	13:F:201:LEU:HB2	2.03	0.40
14:G:218:TRP:CD1	14:G:218:TRP:N	2.90	0.40
16:I:95:GLN:HA	16:I:98:GLU:HB2	2.01	0.40
17:J:246:PHE:CE1	17:J:251:ASP:OD2	2.73	0.40
17:J:360:GLY:C	17:J:363:THR:HG1	2.26	0.40
18:K:79:LEU:HD11	18:K:83:GLN:OE1	2.22	0.40
18:K:85:GLU:HB2	18:K:88:ARG:NH2	2.36	0.40
18:K:238:ASN:CB	18:K:241:GLU:HG2	2.48	0.40
18:K:275:ASP:HB2	18:K:323:THR:OG1	2.21	0.40
18:K:404:GLN:O	18:K:408:GLU:HG2	2.21	0.40
19:L:239:ILE:CD1	19:L:277:ILE:HD11	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:L:312:MET:HE1	19:L:325:MET:HE1	2.03	0.40
20:M:245:LYS:NZ	20:M:281:ASP:HB2	2.29	0.40
21:N:293:LEU:N	21:N:294:PRO:HD2	2.36	0.40
21:N:342:GLY:N	21:N:373:VAL:O	2.48	0.40
21:N:360:GLN:HE22	29:V:164:LEU:HD12	1.86	0.40
21:N:379:LEU:HA	21:N:379:LEU:HD23	1.78	0.40
21:N:560:ALA:HA	21:N:594:VAL:N	2.36	0.40
21:N:572:LEU:O	21:N:576:VAL:HG23	2.22	0.40
21:N:775:CYS:C	21:N:866:TYR:HB2	2.46	0.40
21:N:921:ARG:CA	21:N:925:ASP:HB3	2.48	0.40
22:O:250:TRP:O	22:O:254:LEU:HG	2.21	0.40
22:O:289:GLN:OE1	22:O:334:LEU:HD21	2.21	0.40
22:O:339:GLY:HA3	22:O:349:THR:O	2.21	0.40
22:O:384:MET:HE1	28:U:193:GLN:NE2	2.34	0.40
23:P:71:LYS:HD3	23:P:73:ASP:HB2	2.04	0.40
23:P:255:ALA:O	23:P:259:PRO:HD3	2.21	0.40
23:P:258:LYS:O	23:P:259:PRO:C	2.64	0.40
24:Q:30:LEU:HB3	24:Q:54:GLN:HG2	2.03	0.40
24:Q:72:ASP:HB3	24:Q:75:ARG:HH21	1.86	0.40
24:Q:326:MET:HG3	24:Q:332:ARG:CD	2.51	0.40
25:R:61:PRO:HD2	25:R:144:ILE:O	2.20	0.40
25:R:68:GLU:HA	25:R:71:LEU:HB2	2.03	0.40
25:R:240:SER:CB	25:R:243:LEU:HB2	2.51	0.40
25:R:302:ALA:O	25:R:305:PHE:HB3	2.20	0.40
25:R:337:VAL:HG22	25:R:341:LEU:HG	2.03	0.40
25:R:394:ASP:O	25:R:397:ASN:CG	2.63	0.40
26:S:290:ASN:OD1	26:S:317:HIS:ND1	2.54	0.40
26:S:387:VAL:HA	26:S:390:THR:CB	2.48	0.40
26:S:425:ARG:CD	27:T:156:SER:H	2.34	0.40
26:S:465:ILE:HD13	27:T:260:ILE:CG2	2.51	0.40
26:S:475:TYR:CG	26:S:476:LEU:N	2.89	0.40
27:T:87:PRO:HA	27:T:90:PHE:O	2.21	0.40
28:U:275:VAL:O	28:U:276:ILE:C	2.63	0.40
28:U:302:GLN:C	28:U:305:ARG:H	2.27	0.40
29:V:57:PHE:CE1	29:V:63:VAL:HG22	2.56	0.40
30:W:38:GLN:NE2	30:W:42:ASN:OD1	2.50	0.40
31:X:14:VAL:HG21	31:X:62:ASP:CB	2.50	0.40
33:Z:138:ARG:NH1	33:Z:206:ASP:OD2	2.54	0.40
33:Z:205:LEU:C	33:Z:209:PRO:HD2	2.46	0.40
33:Z:208:VAL:CG1	33:Z:235:GLN:HB3	2.47	0.40
33:Z:529:ALA:O	33:Z:532:HIS:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:Z:853:GLY:O	33:Z:857:LEU:N	2.54	0.40
8:a:34:ALA:HA	8:a:37:GLN:OE1	2.21	0.40
8:a:128:TYR:HD2	8:a:136:PRO:HA	1.86	0.40
8:a:156:LYS:HB3	8:a:166:TYR:CE1	2.56	0.40
8:a:199:TRP:O	8:a:203:VAL:N	2.34	0.40
9:b:42:GLY:HA2	9:b:145:PHE:CZ	2.55	0.40
9:b:203:GLU:HG3	9:b:208:THR:HG21	2.03	0.40
9:b:205:ASN:HA	9:b:247:LEU:HD11	2.02	0.40
10:c:31:HIS:O	10:c:51:LYS:HE3	2.20	0.40
11:d:138:PHE:N	11:d:138:PHE:CD1	2.89	0.40
12:e:205:LYS:HB2	12:e:212:LEU:HD13	2.02	0.40
13:f:38:LEU:O	13:f:45:VAL:N	2.28	0.40
13:f:168:ALA:N	13:f:199:GLN:HB2	2.36	0.40
13:f:171:TYR:CA	13:f:174:ARG:HB3	2.50	0.40
14:g:46:VAL:HG11	14:g:148:LEU:HB2	2.03	0.40
14:g:188:SER:OG	14:g:191:GLU:HG2	2.20	0.40
14:g:201:TYR:HA	14:g:204:HIS:HB3	2.03	0.40
3:h:59:LYS:HD3	3:h:121:TYR:CD2	2.40	0.40
3:h:161:PHE:CG	3:h:162:ARG:N	2.89	0.40
4:i:59:ASN:HD21	4:i:218:ASN:CG	2.30	0.40
4:i:77:THR:HB	4:i:80:ASP:OD2	2.21	0.40
4:i:133:ASP:HB2	4:i:134:PRO:HD2	2.03	0.40
5:j:59:ASP:O	5:j:60:VAL:C	2.64	0.40
5:j:188:TYR:HA	5:j:196:VAL:O	2.21	0.40
6:k:56:PHE:HB2	6:k:98:TYR:CE1	2.56	0.40
6:k:67:TYR:CD2	6:k:67:TYR:C	2.98	0.40
6:k:139:TYR:CE1	6:k:171:ARG:HB3	2.57	0.40
6:k:165:VAL:HG21	6:k:195:PHE:CZ	2.56	0.40
7:l:88:ILE:HG13	7:l:228:ALA:CB	2.51	0.40
7:l:120:MET:HG3	7:l:127:CYS:HB2	2.02	0.40
1:1:107:SER:OG	12:e:103:TYR:O	2.40	0.40
1:1:114:HIS:CE1	12:e:102:TYR:HD1	2.40	0.40
2:2:35:GLN:HE21	2:2:144:TRP:HE3	1.69	0.40
3:3:38:ARG:NH1	3:3:188:SER:O	2.54	0.40
3:3:106:TYR:CE2	2:9:95:HIS:CG	3.09	0.40
4:4:48:ARG:NH2	4:4:199:GLY:HA3	2.36	0.40
4:4:214:GLU:HA	9:B:225:THR:OG1	2.20	0.40
5:5:3:ASP:O	5:5:7:ILE:HG13	2.20	0.40
5:5:58:THR:HG21	6:6:122:LEU:O	2.21	0.40
5:5:176:ASP:OD2	5:5:203:ARG:HD3	2.22	0.40
6:6:8:ARG:HG3	6:6:8:ARG:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:6:20:ALA:HB2	6:6:176:PHE:C	2.46	0.40
6:6:41:HIS:NE2	6:6:186:LYS:C	2.78	0.40
6:6:165:VAL:HG21	6:6:195:PHE:CZ	2.56	0.40
7:7:100:TRP:CH2	1:8:163:SER:HA	2.56	0.40
1:8:179:TYR:CE1	1:8:188:LYS:HG2	2.56	0.40
8:A:81:MET:SD	8:A:141:LEU:HB3	2.61	0.40
8:A:203:VAL:CG1	8:A:244:ARG:HG3	2.50	0.40
9:B:12:PHE:CB	10:C:24:TYR:HB2	2.52	0.40
9:B:34:SER:O	9:B:164:ILE:N	2.35	0.40
10:C:36:ILE:HG12	10:C:164:SER:CB	2.51	0.40
10:C:46:LEU:HD23	10:C:46:LEU:HA	1.88	0.40
11:D:17:ILE:O	11:D:20:VAL:HB	2.22	0.40
11:D:24:LEU:CB	11:D:28:LYS:HZ2	2.33	0.40
11:D:120:TYR:HB2	11:D:128:PRO:HA	2.03	0.40
12:E:49:GLY:HA2	12:E:218:GLN:O	2.21	0.40
12:E:205:LYS:HB2	12:E:212:LEU:HD13	2.02	0.40
13:F:3:ARG:HH22	13:F:24:TYR:HE1	1.68	0.40
13:F:63:ILE:HA	13:F:73:SER:HA	2.02	0.40
13:F:86:ASN:HA	13:F:89:ARG:HD2	2.03	0.40
14:G:74:ILE:HG21	14:G:112:PHE:CE2	2.56	0.40
14:G:119:TYR:CE2	14:G:132:PHE:CZ	3.09	0.40
14:G:218:TRP:CD1	14:G:231:VAL:CG2	3.05	0.40
14:G:231:VAL:HG12	14:G:236:LEU:HB2	2.02	0.40
15:H:148:ASN:O	15:H:154:LYS:HG3	2.21	0.40
15:H:295:PHE:CE2	15:H:339:GLN:HB3	2.56	0.40
15:H:385:ARG:NH2	15:H:408:SER:O	2.45	0.40
16:I:268:PHE:CE2	16:I:312:GLN:HB2	2.56	0.40
17:J:167:PRO:HA	17:J:181:GLN:OE1	2.22	0.40
17:J:208:CYS:HB3	17:J:244:ILE:N	2.36	0.40
17:J:251:ASP:O	17:J:257:ARG:HA	2.20	0.40
18:K:239:GLY:C	18:K:276:SER:HB2	2.47	0.40
18:K:260:LEU:HA	18:K:263:GLU:OE1	2.22	0.40
18:K:352:ILE:HG21	18:K:383:ILE:HG22	2.03	0.40
19:L:92:GLU:OE1	20:M:29:GLU:OE2	2.39	0.40
19:L:198:GLU:HG3	19:L:239:ILE:HA	2.02	0.40
19:L:228:LYS:NZ	19:L:328:ASN:HA	2.36	0.40
19:L:260:ALA:N	19:L:307:GLU:OE2	2.52	0.40
19:L:263:ILE:HA	19:L:266:MET:CE	2.51	0.40
20:M:19:ASP:O	20:M:23:LEU:N	2.38	0.40
20:M:83:VAL:HG23	20:M:84:GLU:N	2.30	0.40
20:M:135:VAL:HA	20:M:158:THR:HG23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:358:ALA:HB2	20:M:380:ALA:HB2	2.04	0.40
21:N:370:SER:O	21:N:373:VAL:HB	2.21	0.40
21:N:373:VAL:HG23	21:N:410:LEU:HD13	2.02	0.40
21:N:381:GLU:O	21:N:385:VAL:HG23	2.21	0.40
21:N:444:HIS:HB2	21:N:477:SER:HA	2.03	0.40
21:N:481:ALA:C	21:N:483:LEU:N	2.76	0.40
21:N:520:GLY:O	21:N:524:ILE:HG12	2.20	0.40
21:N:527:GLY:HA2	21:N:558:ALA:O	2.21	0.40
21:N:535:LEU:HA	21:N:538:LYS:HD2	2.03	0.40
21:N:612:SER:O	21:N:618:ARG:CZ	2.69	0.40
21:N:763:GLY:N	21:N:906:ARG:HA	2.36	0.40
21:N:886:LYS:HG3	21:N:887:ASP:OD1	2.22	0.40
21:N:890:PHE:HE1	21:N:909:GLU:C	2.29	0.40
22:O:30:GLU:HB2	22:O:40:GLN:NE2	2.36	0.40
22:O:93:ASP:CB	22:O:97:LYS:HE3	2.51	0.40
22:O:166:ARG:NH1	22:O:170:SER:N	2.69	0.40
23:P:178:GLN:O	23:P:182:GLU:HG3	2.21	0.40
23:P:208:PHE:CB	23:P:217:LYS:HZ1	2.24	0.40
23:P:218:LEU:O	23:P:219:GLU:C	2.63	0.40
23:P:224:LEU:HG	23:P:240:TYR:HB3	2.03	0.40
23:P:302:LEU:HB3	23:P:310:ARG:NH1	2.36	0.40
23:P:394:ASN:HA	24:Q:357:VAL:HG12	2.03	0.40
24:Q:60:GLU:O	24:Q:64:LEU:N	2.42	0.40
24:Q:69:GLY:C	24:Q:71:LYS:N	2.79	0.40
24:Q:130:ARG:HG3	24:Q:132:PHE:H	1.86	0.40
25:R:72:VAL:O	25:R:72:VAL:HG12	2.22	0.40
25:R:76:GLN:CB	25:R:84:LYS:HB3	2.49	0.40
25:R:109:LYS:O	25:R:112:GLU:HB2	2.20	0.40
25:R:216:ILE:CG2	25:R:321:TYR:HE2	2.34	0.40
25:R:331:ARG:CA	25:R:334:ARG:HB3	2.50	0.40
25:R:342:LEU:HD11	25:R:390:THR:OG1	2.22	0.40
26:S:223:LEU:C	26:S:225:HIS:H	2.30	0.40
26:S:344:PRO:HG2	26:S:370:LEU:CD2	2.49	0.40
26:S:436:ILE:HG22	26:S:437:ASN:C	2.47	0.40
27:T:174:PHE:C	27:T:176:SER:N	2.78	0.40
27:T:229:VAL:HG22	27:T:234:TYR:CZ	2.56	0.40
28:U:24:ARG:CZ	29:V:100:ARG:HD3	2.51	0.40
28:U:174:LEU:C	28:U:176:ARG:NH1	2.76	0.40
28:U:198:LYS:N	29:V:233:LYS:HZ1	2.19	0.40
29:V:135:ARG:HB2	29:V:157:ARG:CD	2.52	0.40
29:V:194:ARG:O	29:V:195:HIS:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:3:LEU:HA	30:W:3:LEU:HD12	1.85	0.40
30:W:15:TYR:O	30:W:18:ASN:O	2.40	0.40
32:Y:80:GLU:CD	32:Y:84:TYR:HB2	2.41	0.40
33:Z:103:TYR:CE1	33:Z:137:TYR:HD1	2.39	0.40
33:Z:327:GLN:NE2	33:Z:463:HIS:CE1	2.90	0.40
33:Z:557:GLU:CB	33:Z:562:TRP:HD1	2.27	0.40
8:a:131:ARG:HD2	8:a:131:ARG:HA	1.76	0.40
8:a:214:LEU:HD23	8:a:214:LEU:HA	1.85	0.40
9:b:201:GLU:OE1	9:b:201:GLU:N	2.51	0.40
10:c:36:ILE:HG12	10:c:164:SER:CB	2.51	0.40
10:c:179:ASP:HB3	10:c:192:LEU:HD11	2.01	0.40
10:c:189:ALA:O	10:c:193:ALA:N	2.38	0.40
10:c:209:ASP:OD1	10:c:210:ARG:N	2.54	0.40
11:d:11:PHE:CE2	12:e:136:ARG:HB2	2.56	0.40
12:e:15:PHE:CZ	13:f:126:ARG:NH1	2.84	0.40
12:e:84:ASP:OD2	12:e:138:PHE:HA	2.21	0.40
12:e:109:VAL:HB	12:e:154:GLN:OE1	2.22	0.40
12:e:232:ASP:HB2	12:e:234:GLU:OE1	2.20	0.40
13:f:62:LYS:HE3	13:f:74:LEU:O	2.21	0.40
13:f:85:SER:OG	13:f:86:ASN:N	2.54	0.40
13:f:132:LEU:O	13:f:146:GLU:HA	2.21	0.40
6:k:91:SER:O	6:k:94:SER:HB3	2.22	0.40
7:l:81:PHE:CZ	7:l:88:ILE:HB	2.55	0.40
7:l:133:TRP:CE3	7:l:134:LEU:HA	2.56	0.40
7:l:152:ALA:HA	7:l:196:ARG:NH2	2.36	0.40
1:1:52:TYR:HA	4:4:196:LEU:HB2	2.03	0.40
2:2:113:LEU:O	2:2:116:ALA:N	2.54	0.40
2:2:133:MET:HE1	2:2:143:LEU:HB2	2.03	0.40
2:2:213:ALA:O	2:2:217:LEU:HG	2.22	0.40
2:2:259:LYS:CE	2:2:265:LYS:HA	2.52	0.40
3:3:88:GLN:HG2	8:A:98:LYS:NZ	2.24	0.40
3:3:121:TYR:CE2	3:3:199:ALA:HA	2.56	0.40
3:3:158:ASP:CG	3:h:180:GLN:HE22	2.28	0.40
3:3:162:ARG:HB2	3:3:165:MET:CG	2.52	0.40
4:4:37:PHE:HZ	4:4:208:GLU:HB2	1.87	0.40
4:4:225:ARG:HG2	4:4:226:GLU:O	2.21	0.40
5:5:188:TYR:HA	5:5:196:VAL:O	2.21	0.40
6:6:22:THR:HG23	6:6:26:SER:C	2.46	0.40
6:6:32:ASP:OD2	6:6:33:ASP:O	2.39	0.40
6:6:139:TYR:HB3	6:6:167:GLU:HG3	2.02	0.40
7:7:177:CYS:SG	7:7:187:ILE:HG23	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:30:THR:CG2	1:8:31:ILE:N	2.85	0.40
1:8:144:PHE:CD1	1:8:144:PHE:N	2.87	0.40
1:8:206:SER:HA	1:8:209:SER:HB2	2.02	0.40
2:9:63:TYR:O	2:9:66:LEU:HB3	2.21	0.40
2:9:214:MET:HE2	2:9:228:PHE:CG	2.57	0.40
2:9:252:TRP:HB3	3:h:191:VAL:CG1	2.50	0.40
8:A:242:GLU:HA	8:A:242:GLU:OE1	2.21	0.40
10:C:183:ASP:OD1	10:C:183:ASP:N	2.54	0.40
10:C:189:ALA:O	10:C:193:ALA:N	2.38	0.40
11:D:106:VAL:HG23	11:D:139:ASP:OD1	2.21	0.40
11:D:135:ILE:N	11:D:148:TYR:O	2.54	0.40
11:D:215:VAL:HA	11:D:221:ILE:HG12	2.03	0.40
12:E:144:ILE:O	12:E:155:LEU:HD12	2.21	0.40
12:E:235:LYS:HA	12:E:238:GLU:OE1	2.21	0.40
13:F:7:ASP:HA	13:F:20:PHE:HD1	1.85	0.40
13:F:74:LEU:HB2	13:F:130:VAL:HG21	2.03	0.40
13:F:85:SER:OG	13:F:86:ASN:N	2.54	0.40
13:F:147:PHE:CG	13:F:148:GLN:N	2.90	0.40
14:G:207:ASN:O	14:G:209:GLU:N	2.54	0.40
15:H:169:GLU:O	15:H:174:VAL:HA	2.21	0.40
16:I:112:ILE:O	16:I:113:ILE:HD13	2.21	0.40
17:J:35:ARG:HA	17:J:35:ARG:HD2	1.70	0.40
17:J:115:LEU:HD12	17:J:121:MET:C	2.46	0.40
17:J:156:GLN:HE22	17:J:314:ILE:HG21	1.85	0.40
18:K:51:LEU:CA	18:K:55:GLU:H	2.34	0.40
18:K:300:LEU:HD23	18:K:300:LEU:HA	1.84	0.40
19:L:65:LEU:CB	19:L:69:ARG:HH12	2.34	0.40
19:L:271:LYS:HD2	19:L:274:GLU:CD	2.45	0.40
19:L:322:LYS:HA	19:L:322:LYS:HD3	1.77	0.40
20:M:362:GLN:O	20:M:366:ARG:HB2	2.21	0.40
21:N:90:ASP:N	21:N:93:GLU:CD	2.79	0.40
21:N:117:TYR:HD1	21:N:123:PHE:HE1	1.70	0.40
21:N:154:LEU:HD13	21:N:189:LEU:HB2	2.02	0.40
21:N:203:ARG:O	21:N:207:LEU:HG	2.22	0.40
21:N:262:VAL:HB	21:N:289:ILE:HG22	2.03	0.40
21:N:309:ILE:HG22	21:N:311:ILE:N	2.36	0.40
21:N:329:HIS:NE2	21:N:355:TRP:CE3	2.90	0.40
21:N:406:TYR:HA	21:N:449:GLY:HA3	2.02	0.40
21:N:585:ARG:CZ	21:N:651:PHE:HE2	2.34	0.40
21:N:761:ILE:HG13	21:N:903:VAL:CG2	2.52	0.40
22:O:83:LEU:HA	22:O:98:TYR:HE1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:O:338:LYS:HB3	22:O:351:SER:HB2	2.02	0.40
23:P:44:LYS:O	23:P:45:LYS:C	2.64	0.40
23:P:65:LEU:O	23:P:69:ARG:HB3	2.21	0.40
23:P:138:ARG:O	23:P:139:VAL:C	2.63	0.40
23:P:158:ASP:HA	23:P:161:CYS:HB2	2.04	0.40
23:P:232:ARG:HB3	23:P:234:TYR:OH	2.22	0.40
23:P:261:LEU:O	23:P:264:ILE:N	2.55	0.40
23:P:272:PRO:O	23:P:347:GLU:OE2	2.39	0.40
23:P:292:LYS:HA	23:P:294:GLU:N	2.36	0.40
24:Q:21:ASN:O	24:Q:24:GLU:HB3	2.21	0.40
24:Q:41:ALA:HB1	24:Q:84:TYR:HB3	2.03	0.40
24:Q:239:PHE:HA	24:Q:242:SER:OG	2.22	0.40
24:Q:259:CYS:O	24:Q:263:LYS:HG3	2.20	0.40
24:Q:276:ASP:HA	24:Q:279:LYS:HZ1	1.86	0.40
24:Q:294:ARG:HB3	24:Q:321:TYR:CD1	2.52	0.40
24:Q:361:HIS:O	24:Q:365:ILE:HG13	2.21	0.40
24:Q:362:ILE:HA	24:Q:365:ILE:HD12	2.03	0.40
24:Q:410:ASP:OD1	24:Q:410:ASP:N	2.50	0.40
25:R:246:TYR:O	25:R:247:GLU:C	2.64	0.40
25:R:336:LYS:O	25:R:340:GLN:OE1	2.38	0.40
26:S:144:LEU:O	26:S:152:LEU:HD21	2.21	0.40
26:S:306:SER:HA	26:S:310:LEU:HB2	2.01	0.40
26:S:402:ILE:HB	26:S:407:ILE:CG1	2.37	0.40
26:S:454:SER:O	26:S:457:PRO:HD2	2.22	0.40
27:T:69:SER:HA	27:T:72:THR:OG1	2.20	0.40
27:T:96:LEU:H	27:T:96:LEU:HG	1.64	0.40
27:T:148:LEU:O	27:T:149:ASP:C	2.64	0.40
28:U:64:ASP:O	28:U:66:TRP:CD1	2.75	0.40
29:V:36:LYS:NZ	29:V:67:ASP:OD1	2.52	0.40
29:V:119:SER:HB2	29:V:122:ASP:CG	2.47	0.40
29:V:206:THR:HG23	29:V:209:GLU:H	1.85	0.40
29:V:235:GLU:C	29:V:239:ALA:HB3	2.46	0.40
31:X:38:ASN:OD1	31:X:47:ASP:OD2	2.39	0.40
31:X:78:ILE:HG22	31:X:78:ILE:O	2.21	0.40
33:Z:138:ARG:HG3	33:Z:203:LEU:CD1	2.52	0.40
33:Z:208:VAL:HG22	33:Z:232:LYS:CG	2.51	0.40
33:Z:286:VAL:HB	33:Z:872:VAL:HG13	2.03	0.40
33:Z:384:SER:O	33:Z:387:ASN:HB2	2.20	0.40
33:Z:440:LEU:HB2	33:Z:451:ALA:CB	2.51	0.40
33:Z:553:ARG:NH1	33:Z:557:GLU:O	2.52	0.40
8:a:78:THR:O	8:a:233:PHE:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:80:GLY:HA3	8:a:233:PHE:CG	2.55	0.40
8:a:81:MET:SD	8:a:141:LEU:HB3	2.61	0.40
8:a:130:GLN:HG3	9:b:128:ARG:CG	2.50	0.40
8:a:144:VAL:HG12	8:a:154:ILE:HG12	2.02	0.40
8:a:242:GLU:HA	8:a:245:LEU:HB2	2.02	0.40
9:b:12:PHE:HB3	9:b:16:GLY:HA2	2.03	0.40
9:b:75:TYR:HA	9:b:133:SER:O	2.22	0.40
9:b:80:PRO:HA	9:b:83:ARG:NH1	2.36	0.40
9:b:92:VAL:HA	9:b:95:THR:OG1	2.20	0.40
9:b:217:GLU:HA	9:b:233:PRO:C	2.46	0.40
10:c:73:ILE:HG12	10:c:108:VAL:HG22	2.01	0.40
10:c:78:ALA:N	10:c:134:SER:O	2.44	0.40
10:c:175:LEU:O	10:c:179:ASP:N	2.26	0.40
11:d:17:ILE:O	11:d:20:VAL:HB	2.22	0.40
11:d:46:CYS:O	11:d:211:GLU:HG2	2.21	0.40
11:d:103:PRO:HG2	11:d:140:PRO:HG3	2.03	0.40
11:d:120:TYR:HB2	11:d:128:PRO:HA	2.03	0.40
11:d:159:TRP:HB3	11:d:161:ALA:O	2.21	0.40
12:e:47:VAL:HG11	12:e:197:GLU:HA	2.02	0.40
12:e:144:ILE:O	12:e:155:LEU:HD12	2.21	0.40
12:e:165:TYR:HB2	12:e:167:TYR:CE1	2.57	0.40
12:e:208:MET:HE2	12:e:210:GLU:O	2.21	0.40
13:f:80:ASP:HB2	13:f:130:VAL:HG12	2.03	0.40
13:f:158:GLY:O	13:f:159:THR:HB	2.20	0.40
14:g:48:PHE:HB2	14:g:217:SER:OG	2.22	0.40
14:g:67:ILE:HD12	14:g:215:GLU:HG2	2.03	0.40
14:g:67:ILE:HG23	14:g:76:CYS:O	2.22	0.40
4:i:82:GLU:O	4:i:85:THR:HB	2.21	0.40
4:i:126:TYR:CD1	4:i:143:HIS:HA	2.56	0.40
4:i:188:ILE:HG22	4:i:192:ILE:HG13	2.03	0.40
5:j:63:LEU:HD21	5:j:103:TYR:CE2	2.56	0.40
6:k:12:SER:CB	6:k:185:ASP:HB3	2.52	0.40
6:k:107:TYR:HB2	6:k:184:VAL:HG12	2.04	0.40
7:l:79:LEU:HD21	7:l:236:ILE:HG12	2.02	0.40
1:1:32:LEU:HD13	1:1:157:ALA:HB2	2.04	0.40
2:2:63:TYR:O	2:2:66:LEU:HB3	2.21	0.40
2:2:83:VAL:O	2:2:150:ALA:N	2.55	0.40
2:2:108:ALA:HA	2:2:114:ALA:CB	2.52	0.40
2:2:135:GLN:O	2:2:136:ARG:C	2.64	0.40
3:3:152:PHE:C	3:h:155:GLY:H	2.28	0.40
4:4:47:THR:HG21	4:4:201:ASN:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:4:178:GLU:N	4:4:178:GLU:CD	2.80	0.40
4:4:191:GLY:O	4:4:192:ILE:C	2.64	0.40
4:4:191:GLY:C	4:4:198:SER:HB2	2.46	0.40
5:5:38:ASN:HB3	5:5:183:TRP:CE3	2.56	0.40
5:5:51:LEU:HD22	5:5:87:PHE:HZ	1.87	0.40
6:6:33:ASP:HA	6:6:180:ILE:HD12	2.03	0.40
7:7:120:MET:HG3	7:7:127:CYS:HB2	2.02	0.40
7:7:152:ALA:HA	7:7:196:ARG:NH2	2.36	0.40
7:7:265:ASN:C	7:7:266:HIS:CG	3.00	0.40
1:8:97:ASP:HB2	1:8:98:HIS:ND1	2.36	0.40
1:8:110:ARG:HG3	12:E:102:TYR:O	2.21	0.40
2:9:114:ALA:O	2:9:119:ALA:HA	2.22	0.40
8:A:48:LYS:HA	8:A:193:HIS:ND1	2.37	0.40
8:A:128:TYR:HD2	8:A:136:PRO:HA	1.86	0.40
9:B:6:SER:C	9:B:125:GLY:HA3	2.47	0.40
9:B:21:ILE:HD11	9:B:122:THR:HG23	2.03	0.40
9:B:180:ASN:OD1	9:B:182:GLU:N	2.54	0.40
10:C:98:TYR:CD1	10:C:106:ILE:HA	2.56	0.40
10:C:231:LYS:N	10:C:234:GLU:OE1	2.47	0.40
11:D:37:LYS:HB2	11:D:145:PRO:CB	2.48	0.40
13:F:13:PHE:CZ	14:G:131:PRO:O	2.65	0.40
13:F:62:LYS:HE3	13:F:74:LEU:O	2.21	0.40
14:G:122:ALA:HA	14:G:125:LEU:CD1	2.52	0.40
15:H:252:PRO:O	15:H:254:THR:HG23	2.22	0.40
15:H:400:ARG:O	15:H:403:ARG:NH1	2.55	0.40
16:I:380:LEU:O	16:I:384:LYS:HG3	2.21	0.40
17:J:39:GLU:CB	26:S:480:ARG:CZ	2.99	0.40
17:J:52:ASN:O	17:J:53:ASP:C	2.65	0.40
17:J:214:SER:HB3	17:J:249:GLU:CD	2.47	0.40
18:K:185:ARG:HG3	18:K:189:GLU:HB3	2.03	0.40
18:K:283:ASP:CG	18:K:284:ALA:H	2.29	0.40
19:L:77:ARG:O	19:L:81:ILE:HG13	2.21	0.40
19:L:111:GLU:HG3	19:L:113:SER:O	2.21	0.40
19:L:395:ALA:O	19:L:399:GLY:N	2.54	0.40
19:L:401:PHE:CD1	19:L:404:ARG:HD3	2.57	0.40
20:M:185:GLY:HA3	20:M:356:SER:HB3	2.04	0.40
20:M:354:GLU:O	20:M:380:ALA:HB1	2.20	0.40
21:N:69:TYR:CE2	21:N:81:TYR:HD2	2.26	0.40
21:N:130:ASP:OD2	21:N:132:LYS:HD2	2.22	0.40
21:N:135:SER:O	21:N:139:ARG:HG3	2.21	0.40
21:N:312:GLY:HA2	21:N:315:ASN:HD22	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:N:348:PHE:CD1	21:N:351:ALA:HB3	2.57	0.40
21:N:505:SER:HA	21:N:517:LEU:HD12	2.03	0.40
21:N:602:VAL:HG12	21:N:625:LEU:HD13	2.04	0.40
21:N:669:GLU:C	21:N:671:LEU:N	2.79	0.40
21:N:775:CYS:HB2	21:N:882:ILE:CA	2.46	0.40
21:N:897:LYS:HG2	21:N:899:ASN:HD21	1.86	0.40
22:O:11:LEU:HD22	22:O:14:LEU:HB3	2.01	0.40
22:O:41:LEU:HD11	22:O:81:TYR:CG	2.56	0.40
22:O:51:ASP:HA	22:O:81:TYR:CE1	2.57	0.40
22:O:75:GLN:HG3	22:O:76:LEU:H	1.87	0.40
22:O:130:ASP:CG	22:O:167:ILE:HG13	2.46	0.40
22:O:222:LEU:O	22:O:225:ASP:OD2	2.40	0.40
22:O:283:HIS:HA	22:O:286:PHE:HB2	2.04	0.40
22:O:302:VAL:HA	22:O:305:ILE:HD11	2.02	0.40
22:O:366:MET:O	22:O:370:LEU:HG	2.22	0.40
23:P:240:TYR:O	23:P:241:LEU:C	2.64	0.40
23:P:267:PHE:HE1	23:P:329:PHE:HD1	1.69	0.40
23:P:314:VAL:HA	23:P:317:THR:CB	2.51	0.40
23:P:415:TRP:HE1	29:V:297:THR:HB	1.87	0.40
24:Q:7:LYS:HZ1	24:Q:34:ASP:CB	2.27	0.40
24:Q:26:VAL:HA	24:Q:29:SER:HB2	2.02	0.40
24:Q:130:ARG:HH22	24:Q:137:LEU:CD1	2.34	0.40
24:Q:150:GLN:HB3	24:Q:153:ASP:CG	2.46	0.40
24:Q:151:TYR:HB3	24:Q:184:VAL:HG13	2.03	0.40
24:Q:235:ALA:O	24:Q:238:TYR:HB2	2.22	0.40
24:Q:246:TYR:HA	24:Q:249:LEU:HD12	2.03	0.40
24:Q:285:LYS:HG2	24:Q:288:LYS:CE	2.51	0.40
24:Q:390:LEU:HG	25:R:344:SER:O	2.21	0.40
25:R:36:SER:HA	25:R:42:GLN:HG2	2.04	0.40
25:R:74:ASN:C	25:R:76:GLN:H	2.30	0.40
25:R:147:LYS:HB2	25:R:181:TYR:OH	2.22	0.40
25:R:156:LYS:HA	25:R:159:SER:HB2	2.03	0.40
25:R:249:ILE:O	25:R:250:ALA:C	2.64	0.40
25:R:401:HIS:HA	26:S:452:TYR:OH	2.21	0.40
26:S:156:VAL:HA	26:S:159:ASN:ND2	2.36	0.40
26:S:471:LEU:HD13	28:U:292:ILE:HD12	2.03	0.40
27:T:62:LEU:HD13	27:T:85:LEU:HA	2.03	0.40
27:T:106:ILE:CD1	27:T:109:TYR:HD2	2.32	0.40
27:T:145:PRO:O	27:T:148:LEU:HB2	2.22	0.40
27:T:161:TRP:HE3	27:T:162:ASP:OD1	2.04	0.40
27:T:232:LYS:HB3	27:T:234:TYR:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:T:260:ILE:HG22	27:T:264:MET:CE	2.39	0.40
28:U:212:ASP:HA	28:U:215:ILE:CB	2.48	0.40
28:U:259:ASN:HB3	28:U:260:ASN:H	1.54	0.40
30:W:129:ALA:HB1	30:W:160:ALA:C	2.47	0.40
30:W:180:LEU:HD13	30:W:182:TYR:OH	2.21	0.40
33:Z:308:LYS:HD3	33:Z:920:GLY:C	2.47	0.40
33:Z:336:SER:O	33:Z:340:LEU:HG	2.21	0.40
33:Z:505:VAL:HG22	33:Z:509:LEU:CD1	2.51	0.40
33:Z:530:LEU:HD23	33:Z:533:VAL:HG21	2.03	0.40
33:Z:535:VAL:HG13	33:Z:572:ILE:HG22	2.03	0.40
8:a:14:ARG:O	8:a:27:GLN:HG2	2.21	0.40
8:a:45:VAL:HA	8:a:168:ALA:HB1	2.03	0.40
8:a:48:LYS:HA	8:a:193:HIS:ND1	2.37	0.40
8:a:78:THR:OG1	8:a:79:ILE:HG13	2.21	0.40
9:b:6:SER:C	9:b:125:GLY:HA3	2.47	0.40
9:b:23:TYR:O	9:b:26:THR:HB	2.22	0.40
9:b:109:LEU:O	9:b:113:GLU:HG2	2.20	0.40
9:b:149:GLN:OE1	9:b:159:TRP:NE1	2.54	0.40
10:c:11:THR:O	11:d:127:ARG:HD3	2.22	0.40
10:c:35:ALA:HB3	10:c:165:VAL:HG23	2.03	0.40
10:c:189:ALA:O	10:c:190:ILE:C	2.63	0.40
10:c:211:LEU:HD23	10:c:211:LEU:HA	1.92	0.40
11:d:17:ILE:HD11	12:e:136:ARG:HD3	2.04	0.40
11:d:115:GLY:CA	11:d:118:GLN:HB3	2.46	0.40
11:d:175:LEU:O	11:d:179:TYR:N	2.41	0.40
12:e:135:SER:OG	12:e:136:ARG:HG2	2.22	0.40
13:f:147:PHE:CG	13:f:148:GLN:N	2.90	0.40
14:g:67:ILE:HB	14:g:215:GLU:OE2	2.21	0.40
14:g:141:VAL:HG11	14:g:226:GLY:HA2	2.02	0.40
14:g:187:LEU:HA	14:g:187:LEU:HD12	1.80	0.40
14:g:207:ASN:O	14:g:209:GLU:N	2.54	0.40
14:g:218:TRP:CD1	14:g:218:TRP:N	2.90	0.40
14:g:220:SER:N	14:g:224:THR:OG1	2.47	0.40
5:j:51:LEU:HD22	5:j:87:PHE:HZ	1.87	0.40
5:j:176:ASP:OD2	5:j:203:ARG:HD3	2.22	0.40
6:k:8:ARG:HG3	6:k:8:ARG:O	2.21	0.40
6:k:55:GLN:HG3	7:l:163:TYR:CD1	2.56	0.40
2:2:35:GLN:NE2	2:2:142:PRO:HG2	2.36	0.40
2:2:89:ASP:OD2	2:2:92:ASP:CG	2.65	0.40
2:2:254:PHE:H	4:4:173:GLN:NE2	2.20	0.40
3:3:121:TYR:CZ	3:3:199:ALA:N	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:3:128:GLU:HB3	3:3:130:TYR:CE2	2.56	0.40
3:3:161:PHE:CG	3:3:162:ARG:N	2.89	0.40
4:4:82:GLU:O	4:4:85:THR:HB	2.21	0.40
4:4:236:ARG:NE	5:5:161:GLU:HB2	2.36	0.40
6:6:91:SER:O	6:6:94:SER:HB3	2.22	0.40
7:7:79:LEU:HD21	7:7:236:ILE:HG12	2.02	0.40
7:7:88:ILE:HG13	7:7:228:ALA:CB	2.51	0.40
7:7:113:ASN:O	7:7:260:TRP:NE1	2.54	0.40
7:7:152:ALA:O	7:7:155:SER:OG	2.37	0.40
7:7:189:TYR:HE2	7:7:191:ASP:HB3	1.87	0.40
7:7:261:ILE:O	7:7:263:HIS:CD2	2.75	0.40
1:8:91:VAL:HG12	1:8:95:HIS:HD2	1.86	0.40
2:9:108:ALA:HA	2:9:114:ALA:CB	2.52	0.40
2:9:152:VAL:HB	2:9:233:ILE:HG22	2.03	0.40
2:9:192:VAL:O	2:9:192:VAL:HG23	2.21	0.40
2:9:213:ALA:O	2:9:217:LEU:HG	2.22	0.40
8:A:45:VAL:HA	8:A:168:ALA:HB1	2.03	0.40
8:A:115:ASP:OD1	8:A:115:ASP:N	2.53	0.40
8:A:135:ARG:NE	14:G:125:LEU:HD23	2.36	0.40
8:A:228:ALA:HB2	8:A:233:PHE:HD1	1.87	0.40
10:C:7:ASP:OD2	11:D:6:ARG:CD	2.68	0.40
10:C:119:LYS:HB2	10:C:155:GLY:HA2	2.04	0.40
12:E:85:ALA:C	12:E:89:ILE:HG12	2.47	0.40
12:E:135:SER:OG	12:E:136:ARG:HG2	2.22	0.40
12:E:223:THR:O	12:E:224:LYS:C	2.64	0.40
14:G:12:ASN:HB3	14:G:127:ASN:CA	2.49	0.40
14:G:48:PHE:HB2	14:G:217:SER:OG	2.22	0.40
14:G:201:TYR:O	14:G:205:GLU:N	2.55	0.40
15:H:144:LYS:O	15:H:145:TYR:C	2.64	0.40
15:H:145:TYR:N	20:M:75:LEU:O	2.54	0.40
15:H:217:GLN:HE21	15:H:248:LEU:CD2	2.34	0.40
15:H:297:MET:HE2	15:H:301:LYS:NZ	2.37	0.40
15:H:311:ILE:HG21	15:H:353:PHE:HB3	2.04	0.40
15:H:365:LEU:HA	15:H:370:ARG:HD3	2.03	0.40
15:H:387:ASN:HA	15:H:390:ARG:HH11	1.84	0.40
16:I:261:PRO:O	16:I:265:ARG:HG3	2.22	0.40
16:I:307:LEU:HD23	16:I:335:ASP:OD2	2.21	0.40
18:K:183:GLU:O	18:K:336:ARG:NH2	2.47	0.40
19:L:364:HIS:HB2	19:L:391:ILE:HG22	2.04	0.40
19:L:375:ASP:O	19:L:415:LEU:HD21	2.22	0.40
20:M:135:VAL:HG12	20:M:158:THR:HG23	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:M:260:ALA:N	20:M:304:THR:HG22	2.36	0.40
20:M:422:VAL:HG12	20:M:424:ALA:H	1.86	0.40
21:N:223:LEU:HB3	21:N:894:ARG:HH22	1.87	0.40
21:N:299:TYR:CE2	21:N:303:LEU:HD11	2.56	0.40
21:N:350:LYS:HE2	21:N:350:LYS:HB2	1.87	0.40
21:N:464:GLU:O	21:N:468:GLU:OE1	2.40	0.40
21:N:657:MET:HE1	21:N:685:VAL:HG11	2.02	0.40
21:N:763:GLY:HA3	21:N:907:ASP:H	1.86	0.40
21:N:919:THR:CG2	21:N:921:ARG:HB3	2.45	0.40
22:O:5:HIS:CE1	22:O:31:LYS:CG	2.93	0.40
22:O:45:LEU:HA	22:O:48:PHE:HB2	2.04	0.40
22:O:46:THR:O	22:O:49:PHE:HB3	2.21	0.40
22:O:255:LEU:O	22:O:258:LEU:HB2	2.21	0.40
22:O:270:ILE:O	22:O:270:ILE:HG13	2.21	0.40
22:O:298:GLU:OE2	22:O:358:ILE:HG21	2.22	0.40
22:O:380:LEU:HD22	27:T:258:ASN:HB2	2.02	0.40
23:P:147:LYS:HZ1	23:P:159:ILE:HG21	1.81	0.40
23:P:170:SER:HA	23:P:176:LYS:HD2	2.04	0.40
23:P:221:TYR:CE1	23:P:241:LEU:HA	2.56	0.40
24:Q:14:LEU:CB	24:Q:23:ALA:HB2	2.49	0.40
24:Q:151:TYR:CD1	24:Q:184:VAL:HG13	2.55	0.40
24:Q:158:ILE:O	24:Q:161:LEU:HB2	2.22	0.40
24:Q:213:GLN:HG2	24:Q:217:GLU:CD	2.47	0.40
25:R:44:LYS:O	25:R:45:GLU:C	2.65	0.40
25:R:395:ASN:O	25:R:400:TYR:HD2	2.04	0.40
26:S:180:ASN:HB3	26:S:183:LEU:HB2	2.03	0.40
26:S:200:GLU:N	26:S:201:ILE:C	2.79	0.40
26:S:324:MET:HB2	26:S:326:ASP:OD2	2.21	0.40
26:S:366:LYS:HD3	26:S:367:TYR:CE2	2.56	0.40
26:S:423:VAL:HG13	26:S:424:SER:N	2.36	0.40
26:S:438:HIS:CD2	27:T:197:TYR:OH	2.75	0.40
26:S:456:ASP:N	26:S:457:PRO:HD2	2.35	0.40
26:S:470:GLN:O	26:S:474:GLU:HB2	2.22	0.40
27:T:216:GLU:O	27:T:220:PHE:CD2	2.75	0.40
28:U:24:ARG:HH11	29:V:99:GLY:C	2.17	0.40
28:U:167:GLU:O	28:U:169:ILE:N	2.55	0.40
29:V:50:MET:HA	29:V:109:HIS:CE1	2.56	0.40
29:V:120:SER:O	29:V:124:ASN:N	2.28	0.40
29:V:232:GLU:CA	29:V:235:GLU:HB3	2.47	0.40
30:W:65:PHE:CZ	30:W:101:ARG:HA	2.56	0.40
30:W:113:PHE:CD1	30:W:142:ILE:HG21	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:W:127:ARG:O	30:W:130:LYS:HB2	2.21	0.40
30:W:131:THR:CA	30:W:134:LYS:HD2	2.49	0.40
31:X:77:PRO:O	31:X:113:GLU:HB3	2.22	0.40
33:Z:145:ASP:HB2	33:Z:154:ILE:CD1	2.51	0.40
33:Z:593:HIS:HB3	33:Z:594:PRO:HD2	2.03	0.40
33:Z:738:TYR:CE1	33:Z:885:ALA:HB1	2.57	0.40
33:Z:762:GLY:CA	33:Z:792:VAL:HG21	2.47	0.40
33:Z:868:ASN:HB3	33:Z:909:ARG:NH1	2.30	0.40
33:Z:970:TYR:HB2	33:Z:983:LEU:HD22	2.03	0.40
8:a:20:SER:HB3	8:a:26:TYR:HE1	1.87	0.40
9:b:21:ILE:HD11	9:b:122:THR:HG23	2.03	0.40
9:b:64:VAL:HB	9:b:210:GLU:OE2	2.21	0.40
10:c:25:ALA:O	10:c:29:ILE:HG13	2.21	0.40
10:c:119:LYS:NZ	10:c:152:ASN:N	2.70	0.40
12:e:201:LEU:HD11	12:e:212:LEU:HD21	2.03	0.40
12:e:208:MET:SD	12:e:212:LEU:HB2	2.62	0.40
13:f:133:LEU:HD21	13:f:161:ILE:HG23	2.03	0.40
14:g:116:LEU:O	14:g:119:TYR:HB3	2.22	0.40
14:g:179:LEU:HA	14:g:179:LEU:HD23	1.80	0.40
3:h:22:ILE:HD12	3:h:63:CYS:HB3	2.03	0.40
3:h:38:ARG:NH1	3:h:188:SER:O	2.54	0.40
3:h:128:GLU:HB3	3:h:130:TYR:CE2	2.56	0.40
3:h:162:ARG:HH22	3:h:169:GLU:CD	2.29	0.40
4:i:48:ARG:NH1	4:i:198:SER:C	2.79	0.40
4:i:164:MET:SD	4:i:168:GLU:HG2	2.61	0.40
4:i:191:GLY:C	4:i:198:SER:HB2	2.46	0.40
5:j:38:ASN:HB3	5:j:183:TRP:CE3	2.56	0.40
6:k:18:SER:HA	6:k:179:VAL:HA	2.03	0.40
6:k:22:THR:HG23	6:k:26:SER:C	2.46	0.40
6:k:22:THR:HG23	6:k:26:SER:O	2.21	0.40
6:k:56:PHE:O	6:k:59:TYR:HB3	2.21	0.40
6:k:139:TYR:OH	6:k:171:ARG:O	2.26	0.40
6:k:139:TYR:HB3	6:k:167:GLU:HG3	2.02	0.40
7:l:234:ARG:HH21	7:l:281:SER:CB	2.34	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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%)	202 (92%)	17 (8%)	1 (0%)	24	63
1	8	220/241 (91%)	202 (92%)	17 (8%)	1 (0%)	24	63
2	2	231/266 (87%)	210 (91%)	21 (9%)	0	100	100
2	9	231/266 (87%)	210 (91%)	21 (9%)	0	100	100
3	3	203/215 (94%)	180 (89%)	22 (11%)	1 (0%)	24	63
3	h	203/215 (94%)	179 (88%)	23 (11%)	1 (0%)	24	63
4	4	220/261 (84%)	206 (94%)	14 (6%)	0	100	100
4	i	220/261 (84%)	206 (94%)	14 (6%)	0	100	100
5	5	202/205 (98%)	185 (92%)	16 (8%)	1 (0%)	24	63
5	j	202/205 (98%)	185 (92%)	16 (8%)	1 (0%)	24	63
6	6	196/198 (99%)	175 (89%)	19 (10%)	2 (1%)	12	47
6	k	196/198 (99%)	174 (89%)	19 (10%)	3 (2%)	8	38
7	7	210/287 (73%)	188 (90%)	20 (10%)	2 (1%)	12	47
7	l	210/287 (73%)	190 (90%)	19 (9%)	1 (0%)	24	63
8	A	241/252 (96%)	220 (91%)	21 (9%)	0	100	100
8	a	241/252 (96%)	220 (91%)	21 (9%)	0	100	100
9	B	248/250 (99%)	225 (91%)	23 (9%)	0	100	100
9	b	248/250 (99%)	225 (91%)	23 (9%)	0	100	100
10	C	242/258 (94%)	220 (91%)	19 (8%)	3 (1%)	10	42
10	c	242/258 (94%)	220 (91%)	19 (8%)	3 (1%)	10	42
11	D	239/254 (94%)	215 (90%)	24 (10%)	0	100	100
11	d	239/254 (94%)	215 (90%)	24 (10%)	0	100	100
12	E	240/260 (92%)	215 (90%)	23 (10%)	2 (1%)	16	52
12	e	240/260 (92%)	215 (90%)	23 (10%)	2 (1%)	16	52
13	F	231/234 (99%)	210 (91%)	19 (8%)	2 (1%)	14	49

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
13	f	231/234 (99%)	210 (91%)	19 (8%)	2 (1%)	14 49
14	G	242/288 (84%)	216 (89%)	25 (10%)	1 (0%)	30 67
14	g	242/288 (84%)	216 (89%)	24 (10%)	2 (1%)	16 52
15	H	350/467 (75%)	286 (82%)	56 (16%)	8 (2%)	5 28
16	I	321/437 (74%)	286 (89%)	33 (10%)	2 (1%)	21 58
17	J	371/405 (92%)	332 (90%)	31 (8%)	8 (2%)	5 28
18	K	357/428 (83%)	306 (86%)	45 (13%)	6 (2%)	7 35
19	L	354/437 (81%)	302 (85%)	51 (14%)	1 (0%)	36 71
20	M	349/434 (80%)	306 (88%)	40 (12%)	3 (1%)	14 49
21	N	843/945 (89%)	656 (78%)	174 (21%)	13 (2%)	8 38
22	O	372/393 (95%)	250 (67%)	103 (28%)	19 (5%)	1 15
23	P	427/445 (96%)	305 (71%)	99 (23%)	23 (5%)	1 15
24	Q	429/434 (99%)	350 (82%)	76 (18%)	3 (1%)	18 55
25	R	398/429 (93%)	281 (71%)	94 (24%)	23 (6%)	1 14
26	S	435/523 (83%)	313 (72%)	103 (24%)	19 (4%)	2 17
27	T	265/274 (97%)	190 (72%)	74 (28%)	1 (0%)	30 67
28	U	244/338 (72%)	198 (81%)	39 (16%)	7 (3%)	3 23
29	V	237/306 (78%)	176 (74%)	53 (22%)	8 (3%)	3 20
30	W	195/268 (73%)	157 (80%)	30 (15%)	8 (4%)	2 17
31	X	125/156 (80%)	94 (75%)	26 (21%)	5 (4%)	2 18
32	Y	32/89 (36%)	21 (66%)	9 (28%)	2 (6%)	1 13
33	Z	757/993 (76%)	665 (88%)	80 (11%)	12 (2%)	7 37
All	All	13191/15139 (87%)	11208 (85%)	1781 (14%)	202 (2%)	11 38

All (202) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
16	I	253	ILE
17	J	321	VAL
18	K	342	SER
18	K	344	ARG
25	R	239	THR
25	R	284	ALA
25	R	285	ALA

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Mol	Chain	Res	Type
25	R	286	LEU
26	S	25	TYR
26	S	40	GLU
26	S	44	THR
26	S	55	ARG
26	S	201	ILE
26	S	301	PRO
26	S	431	VAL
28	U	139	ALA
28	U	140	ILE
30	W	67	ALA
30	W	105	VAL
31	X	64	ILE
31	X	78	ILE
6	k	2	ASP
6	k	3	ILE
10	C	222	ASP
18	K	158	ILE
18	K	160	VAL
21	N	761	ILE
22	O	16	MET
22	O	302	VAL
23	P	108	LYS
23	P	109	SER
23	P	425	HIS
25	R	289	ILE
26	S	57	LEU
26	S	73	THR
29	V	68	VAL
29	V	159	ILE
29	V	290	ASN
31	X	24	CYS
33	Z	368	VAL
33	Z	370	SER
10	c	222	ASP
14	g	129	VAL
6	6	2	ASP
20	M	163	PHE
21	N	741	TYR
21	N	874	ILE
22	O	15	ARG
22	O	92	PHE

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Mol	Chain	Res	Type
22	O	93	ASP
22	O	226	LYS
22	O	233	LEU
22	O	303	LYS
22	O	352	TRP
22	O	366	MET
23	P	85	LYS
23	P	411	LEU
25	R	353	MET
26	S	470	GLN
28	U	209	GLU
29	V	163	ALA
33	Z	466	GLU
7	7	129	PHE
14	G	43	ASN
15	H	454	TYR
17	J	135	SER
17	J	318	PRO
17	J	319	PRO
18	K	159	SER
21	N	572	LEU
21	N	903	VAL
22	O	18	ALA
22	O	44	SER
22	O	65	PHE
22	O	70	TYR
22	O	289	GLN
23	P	243	GLU
23	P	288	ASN
23	P	412	LEU
25	R	64	LYS
25	R	223	ASN
25	R	241	ILE
25	R	287	GLN
25	R	420	ALA
25	R	421	VAL
26	S	177	ASN
26	S	230	LYS
27	T	251	HIS
28	U	130	VAL
28	U	305	ARG
29	V	240	ALA

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Mol	Chain	Res	Type
30	W	68	GLU
30	W	79	THR
30	W	147	ILE
31	X	29	VAL
32	Y	67	VAL
33	Z	277	GLU
33	Z	483	THR
33	Z	802	ASP
14	g	43	ASN
7	7	152	ALA
10	C	99	LEU
15	H	186	PRO
15	H	190	ARG
15	H	194	SER
17	J	317	PRO
21	N	179	THR
21	N	476	THR
21	N	913	PRO
22	O	210	ARG
23	P	132	VAL
23	P	167	THR
23	P	382	ASP
23	P	436	GLU
25	R	197	MET
25	R	210	TYR
25	R	320	LYS
25	R	399	GLN
26	S	69	LEU
26	S	74	LEU
10	c	99	LEU
7	l	152	ALA
1	1	79	ASP
3	3	77	ILE
1	8	79	ASP
12	E	204	LEU
13	F	113	CYS
20	M	33	ARG
21	N	85	ALA
22	O	83	LEU
22	O	353	VAL
23	P	41	VAL
23	P	255	ALA

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Mol	Chain	Res	Type
23	P	296	GLN
24	Q	114	GLN
24	Q	128	GLU
25	R	114	ASN
25	R	258	LEU
26	S	225	HIS
26	S	342	LEU
26	S	404	LEU
26	S	447	GLU
29	V	282	GLU
30	W	78	ASP
33	Z	232	LYS
33	Z	243	GLN
33	Z	434	GLN
12	e	204	LEU
13	f	113	CYS
15	H	192	ASP
16	I	302	ILE
17	J	55	VAL
17	J	134	VAL
21	N	450	ILE
21	N	914	VAL
23	P	237	VAL
23	P	320	PRO
25	R	72	VAL
25	R	384	VAL
28	U	132	LEU
28	U	133	PRO
30	W	30	ILE
31	X	28	PRO
33	Z	925	VAL
3	h	77	ILE
10	C	86	ILE
15	H	168	ILE
19	L	81	ILE
20	M	167	VAL
21	N	617	VAL
23	P	119	ILE
23	P	281	ILE
26	S	187	ILE
32	Y	69	VAL
10	c	86	ILE

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Mol	Chain	Res	Type
15	H	191	ILE
17	J	41	VAL
21	N	583	VAL
23	P	260	VAL
23	P	264	ILE
23	P	433	ILE
25	R	330	VAL
25	R	361	VAL
29	V	32	ILE
29	V	144	ILE
30	W	118	ILE
33	Z	286	VAL
5	5	105	VAL
6	6	9	VAL
13	F	29	ILE
18	K	223	VAL
22	O	363	ILE
23	P	380	ILE
24	Q	281	ILE
25	R	110	ILE
33	Z	480	ASN
13	f	29	ILE
5	j	105	VAL
6	k	9	VAL
12	E	89	ILE
15	H	96	PRO
12	e	89	ILE

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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%)	198 (100%)	1 (0%)	81	82

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	9	199/224 (89%)	198 (100%)	1 (0%)	81	82
3	3	168/178 (94%)	167 (99%)	1 (1%)	78	81
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	172/173 (99%)	172 (100%)	0	100	100
6	6	175/175 (100%)	174 (99%)	1 (1%)	78	81
6	k	175/175 (100%)	174 (99%)	1 (1%)	78	81
7	7	169/235 (72%)	168 (99%)	1 (1%)	78	81
7	l	169/235 (72%)	168 (99%)	1 (1%)	78	81
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%)	197 (100%)	1 (0%)	81	82
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
14	G	201/239 (84%)	201 (100%)	0	100	100
14	g	201/239 (84%)	201 (100%)	0	100	100
15	H	301/399 (75%)	300 (100%)	1 (0%)	86	84
16	I	284/385 (74%)	282 (99%)	2 (1%)	76	79
17	J	325/352 (92%)	324 (100%)	1 (0%)	86	84
18	K	316/374 (84%)	315 (100%)	1 (0%)	86	84
19	L	306/377 (81%)	306 (100%)	0	100	100
20	M	303/375 (81%)	303 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
21	N	713/797 (90%)	713 (100%)	0	100 100
22	O	350/368 (95%)	345 (99%)	5 (1%)	59 71
23	P	384/415 (92%)	380 (99%)	4 (1%)	68 76
24	Q	388/391 (99%)	387 (100%)	1 (0%)	86 84
25	R	351/379 (93%)	346 (99%)	5 (1%)	59 71
26	S	342/489 (70%)	334 (98%)	8 (2%)	44 64
27	T	250/256 (98%)	250 (100%)	0	100 100
28	U	228/308 (74%)	225 (99%)	3 (1%)	61 72
29	V	211/268 (79%)	205 (97%)	6 (3%)	38 59
30	W	171/230 (74%)	171 (100%)	0	100 100
31	X	116/144 (81%)	116 (100%)	0	100 100
32	Y	18/81 (22%)	18 (100%)	0	100 100
33	Z	645/850 (76%)	643 (100%)	2 (0%)	86 84
All	All	11346/13054 (87%)	11299 (100%)	47 (0%)	81 83

All (47) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	2	197	ASP
3	3	18	LEU
6	6	1	MET
7	7	108	LYS
2	9	197	ASP
12	E	243	LEU
15	H	95	HIS
16	I	252	LEU
16	I	253	ILE
17	J	258	VAL
18	K	343	LEU
22	O	4	ASN
22	O	14	LEU
22	O	138	LEU
22	O	272	VAL
22	O	348	VAL
23	P	106	SER
23	P	108	LYS
23	P	337	HIS

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Mol	Chain	Res	Type
23	P	427	GLU
24	Q	389	VAL
25	R	147	LYS
25	R	148	ASP
25	R	199	GLU
25	R	235	LEU
25	R	406	GLN
26	S	22	GLU
26	S	179	ILE
26	S	297	ILE
26	S	396	SER
26	S	455	GLU
26	S	464	ARG
26	S	474	GLU
26	S	475	TYR
28	U	189	ARG
28	U	291	LEU
28	U	297	GLN
29	V	37	MET
29	V	53	MET
29	V	108	TYR
29	V	282	GLU
29	V	288	LEU
29	V	289	GLU
33	Z	367	SER
33	Z	369	PHE
6	k	2	ASP
7	l	131	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (284) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	113	GLN
1	1	154	GLN
2	2	35	GLN
2	2	36	GLN
2	2	51	ASN
2	2	70	ASN
2	2	95	HIS
2	2	244	ASN
2	2	246	GLN
3	3	139	HIS

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Mol	Chain	Res	Type
3	3	164	ASN
3	3	176	HIS
3	3	180	GLN
4	4	59	ASN
4	4	86	GLN
4	4	115	HIS
4	4	122	HIS
4	4	173	GLN
4	4	201	ASN
5	5	72	ASN
5	5	89	GLN
6	6	37	GLN
6	6	112	ASN
6	6	118	GLN
6	6	146	HIS
6	6	198	GLN
7	7	104	GLN
7	7	141	HIS
7	7	164	GLN
7	7	251	ASN
1	8	154	GLN
2	9	35	GLN
2	9	36	GLN
2	9	51	ASN
2	9	70	ASN
2	9	95	HIS
2	9	244	ASN
2	9	246	GLN
8	A	92	ASN
8	A	123	ASN
8	A	130	GLN
8	A	175	GLN
8	A	176	GLN
8	A	181	ASN
8	A	240	ASN
9	B	190	HIS
10	C	21	GLN
10	C	31	HIS
10	C	94	HIS
10	C	147	GLN
10	C	173	GLN
10	C	177	GLN

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Mol	Chain	Res	Type
11	D	16	HIS
11	D	19	GLN
11	D	70	HIS
11	D	94	GLN
11	D	162	GLN
11	D	235	GLN
12	E	23	GLN
12	E	91	HIS
12	E	108	ASN
12	E	206	GLN
12	E	233	ASN
13	F	69	HIS
13	F	93	ASN
13	F	119	ASN
13	F	121	GLN
13	F	148	GLN
14	G	23	GLN
14	G	90	ASN
14	G	170	GLN
14	G	195	GLN
14	G	225	ASN
15	H	51	GLN
15	H	95	HIS
15	H	265	ASN
15	H	339	GLN
16	I	254	GLN
16	I	274	ASN
16	I	295	ASN
16	I	303	GLN
17	J	47	GLN
17	J	49	ASN
17	J	52	ASN
17	J	111	GLN
17	J	128	ASN
17	J	156	GLN
17	J	181	GLN
17	J	205	HIS
17	J	287	ASN
17	J	331	HIS
17	J	379	GLN
17	J	393	ASN
18	K	182	GLN

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Mol	Chain	Res	Type
18	K	285	GLN
18	K	302	GLN
18	K	311	ASN
18	K	404	GLN
19	L	67	HIS
19	L	80	ASN
19	L	133	ASN
20	M	71	ASN
20	M	74	GLN
20	M	311	GLN
20	M	359	GLN
20	M	375	ASN
20	M	405	ASN
21	N	182	ASN
21	N	226	ASN
21	N	231	ASN
21	N	300	ASN
21	N	308	ASN
21	N	378	ASN
21	N	472	ASN
21	N	573	HIS
21	N	666	GLN
21	N	716	GLN
21	N	870	ASN
21	N	922	GLN
22	O	4	ASN
22	O	5	HIS
22	O	75	GLN
22	O	107	GLN
22	O	236	HIS
22	O	304	ASN
22	O	318	HIS
22	O	323	ASN
22	O	326	HIS
22	O	376	GLN
23	P	38	GLN
23	P	88	GLN
23	P	210	ASN
23	P	242	GLN
23	P	296	GLN
23	P	349	ASN
23	P	385	ASN

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Mol	Chain	Res	Type
23	P	394	ASN
23	P	418	ASN
23	P	440	HIS
24	Q	19	GLN
24	Q	63	GLN
24	Q	87	GLN
24	Q	114	GLN
24	Q	135	HIS
24	Q	186	HIS
24	Q	190	ASN
24	Q	206	ASN
24	Q	226	HIS
24	Q	253	ASN
24	Q	283	ASN
24	Q	308	ASN
24	Q	315	ASN
24	Q	336	ASN
24	Q	361	HIS
24	Q	379	GLN
24	Q	420	ASN
25	R	23	ASN
25	R	100	ASN
25	R	106	ASN
25	R	114	ASN
25	R	136	ASN
25	R	314	ASN
25	R	340	GLN
25	R	366	ASN
25	R	399	GLN
26	S	19	HIS
26	S	20	HIS
26	S	159	ASN
26	S	172	ASN
26	S	177	ASN
26	S	235	ASN
26	S	243	ASN
26	S	261	HIS
26	S	280	ASN
26	S	314	ASN
26	S	339	GLN
26	S	458	GLN
27	T	17	ASN

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Mol	Chain	Res	Type
27	T	37	ASN
27	T	94	HIS
27	T	123	HIS
27	T	135	ASN
27	T	204	ASN
27	T	238	GLN
27	T	258	ASN
27	T	272	ASN
28	U	26	GLN
28	U	77	ASN
28	U	223	HIS
28	U	230	GLN
28	U	260	ASN
28	U	280	ASN
28	U	298	ASN
28	U	302	GLN
29	V	64	ASN
29	V	102	GLN
29	V	111	HIS
29	V	145	GLN
29	V	184	ASN
29	V	190	HIS
29	V	193	ASN
29	V	215	ASN
29	V	217	HIS
29	V	250	GLN
29	V	291	ASN
30	W	29	GLN
30	W	38	GLN
30	W	42	ASN
30	W	92	GLN
30	W	95	GLN
30	W	102	GLN
30	W	143	ASN
30	W	149	GLN
31	X	105	ASN
32	Y	88	ASN
33	Z	132	HIS
33	Z	156	HIS
33	Z	168	GLN
33	Z	235	GLN
33	Z	327	GLN

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Mol	Chain	Res	Type
33	Z	364	ASN
33	Z	396	ASN
33	Z	435	GLN
33	Z	475	GLN
33	Z	760	HIS
33	Z	789	GLN
33	Z	801	HIS
33	Z	833	GLN
33	Z	856	HIS
33	Z	897	HIS
8	a	92	ASN
8	a	175	GLN
8	a	176	GLN
8	a	181	ASN
9	b	119	GLN
10	c	21	GLN
10	c	31	HIS
10	c	94	HIS
10	c	96	GLN
10	c	147	GLN
10	c	173	GLN
10	c	177	GLN
11	d	16	HIS
11	d	19	GLN
11	d	70	HIS
11	d	94	GLN
11	d	162	GLN
11	d	235	GLN
12	e	91	HIS
12	e	215	ASN
12	e	233	ASN
13	f	69	HIS
13	f	93	ASN
13	f	117	GLN
13	f	119	ASN
13	f	148	GLN
14	g	23	GLN
14	g	90	ASN
14	g	170	GLN
14	g	195	GLN
3	h	160	ASN
3	h	164	ASN

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Mol	Chain	Res	Type
3	h	176	HIS
3	h	180	GLN
4	i	59	ASN
4	i	86	GLN
4	i	91	ASN
4	i	115	HIS
4	i	122	HIS
4	i	173	GLN
4	i	201	ASN
5	j	72	ASN
5	j	89	GLN
6	k	37	GLN
6	k	55	GLN
6	k	112	ASN
6	k	118	GLN
6	k	146	HIS
6	k	198	GLN
7	l	104	GLN
7	l	141	HIS
7	l	164	GLN
7	l	251	ASN
7	l	283	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

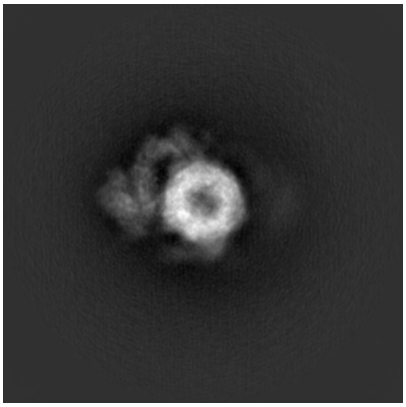
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-6574. These allow visual inspection of the internal detail of the map and identification of artifacts.

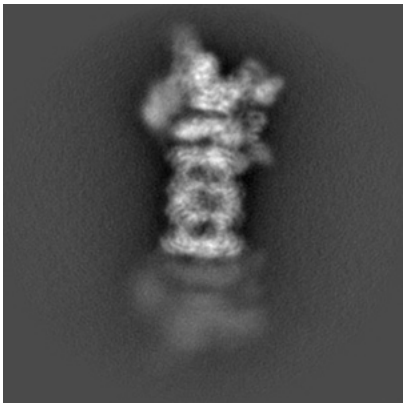
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

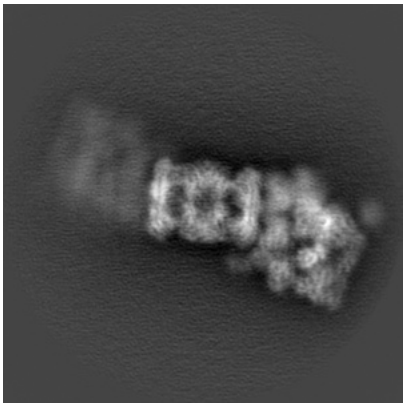
6.1.1 Primary map



X



Y

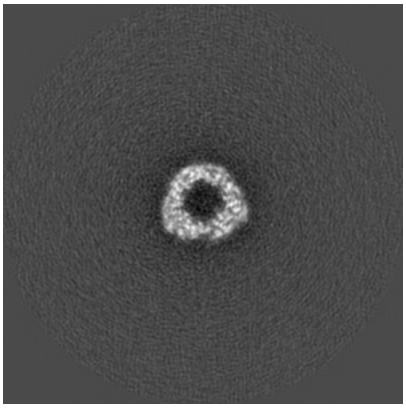


Z

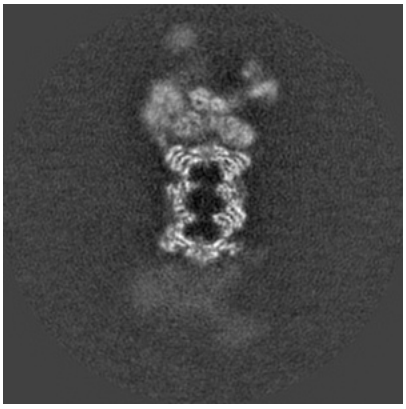
The images above show the map projected in three orthogonal directions.

6.2 Central slices

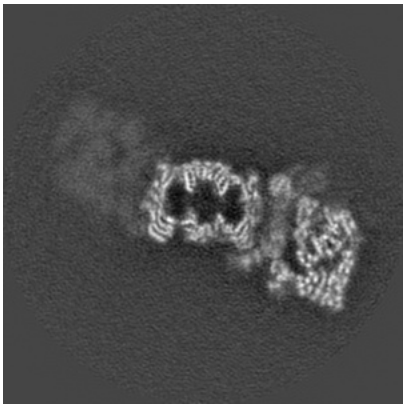
6.2.1 Primary map



X Index: 128



Y Index: 128

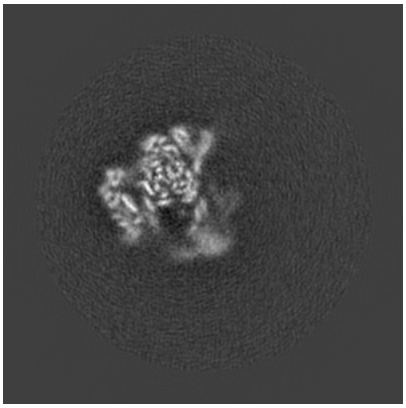


Z Index: 128

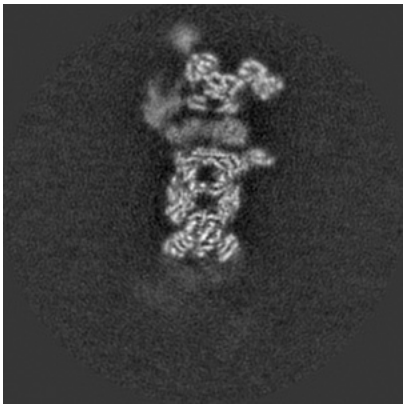
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

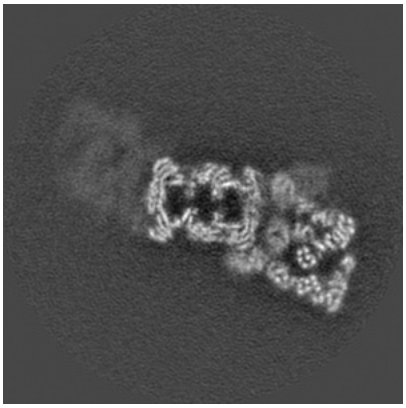
6.3.1 Primary map



X Index: 200



Y Index: 117

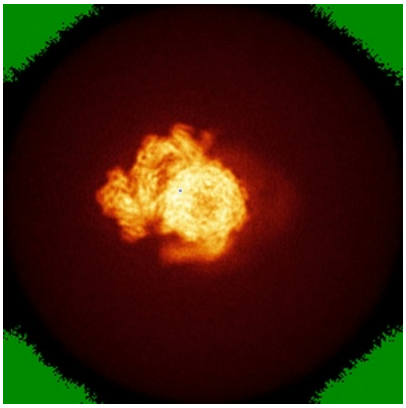


Z Index: 132

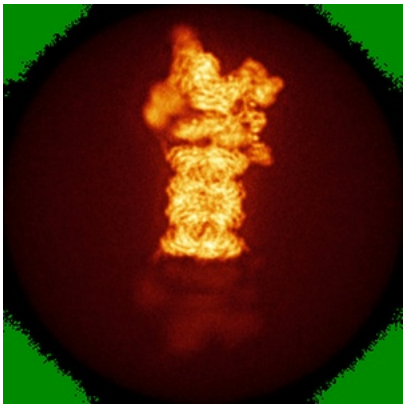
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

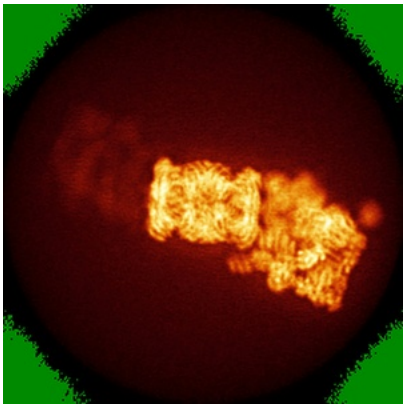
6.4.1 Primary map



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

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.0796. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

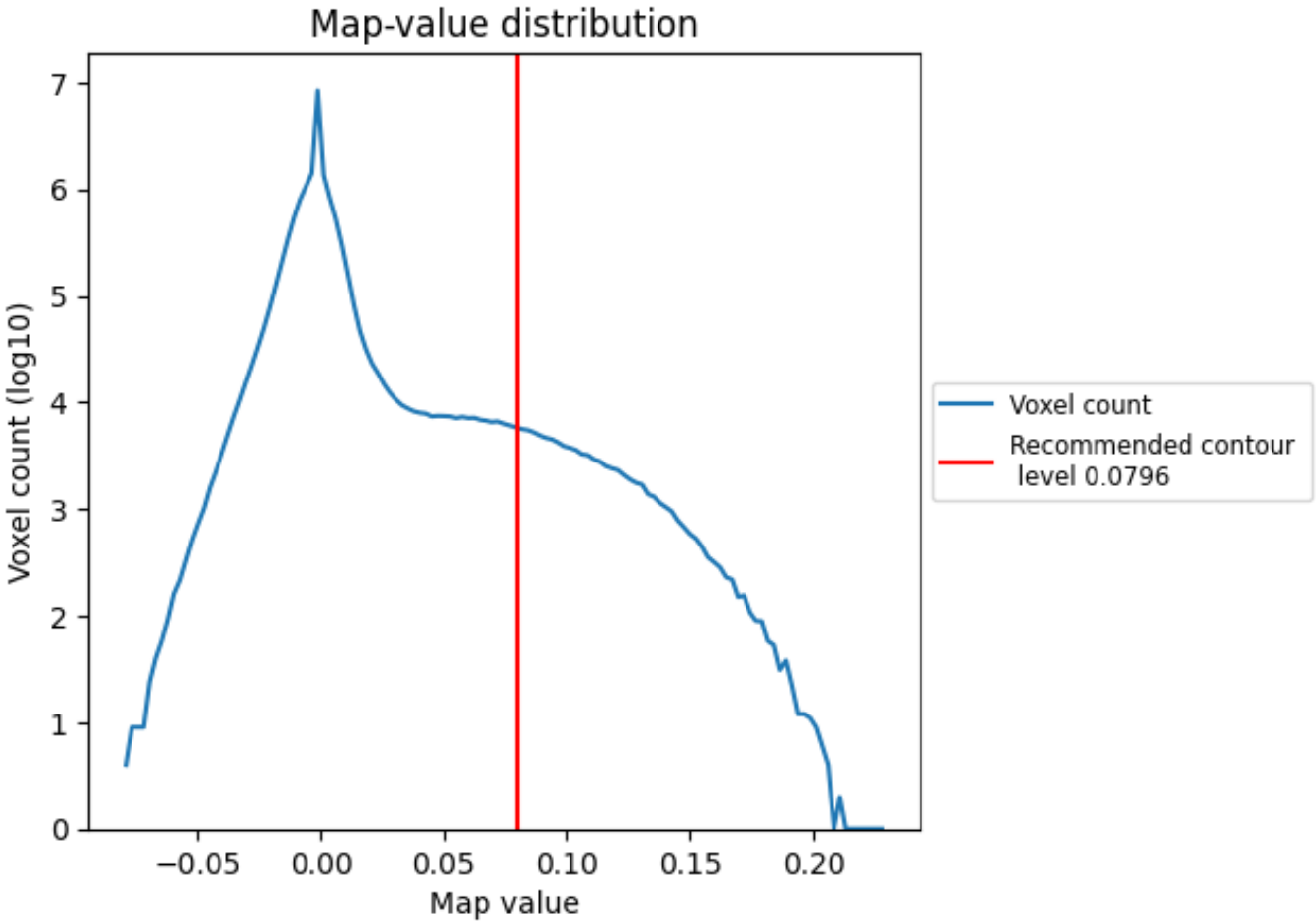
6.6 Mask visualisation (i)

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

7 Map analysis

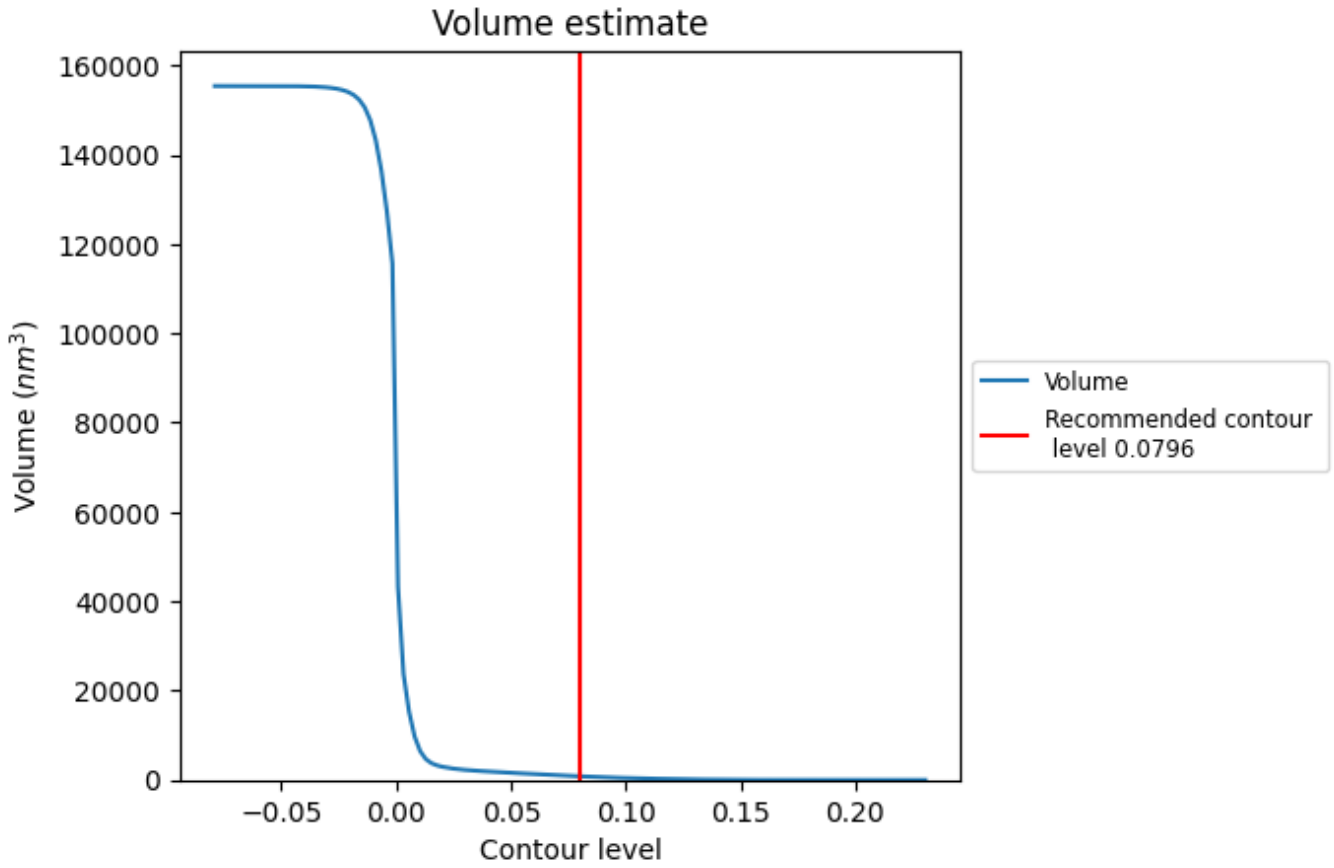
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

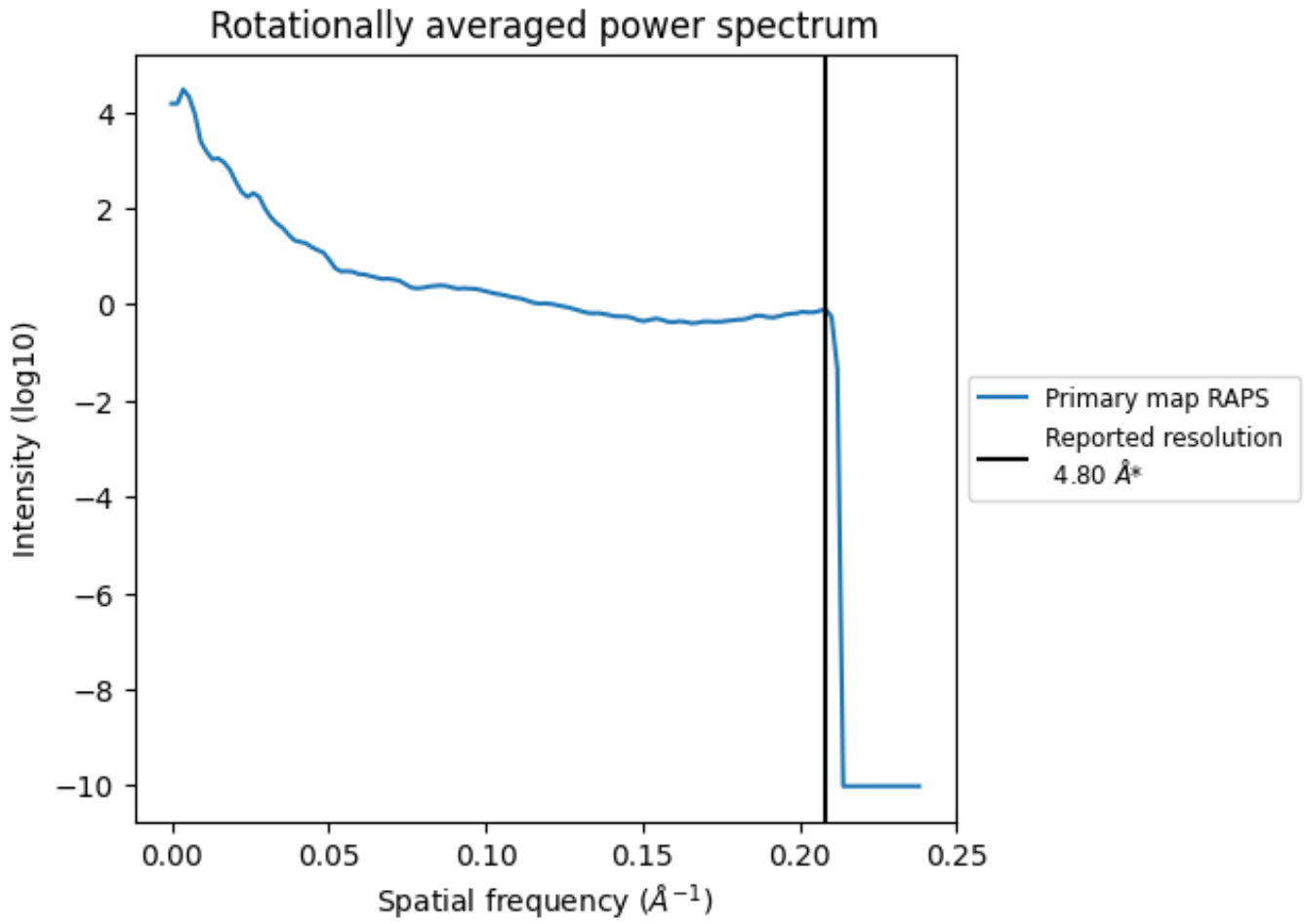
7.2 Volume estimate



The volume at the recommended contour level is 826 nm^3; this corresponds to an approximate mass of 746 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.208 Å^{-1}

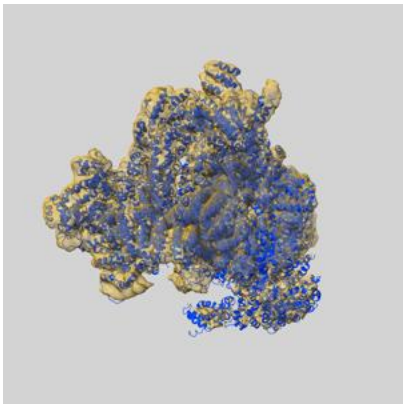
8 Fourier-Shell correlation

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

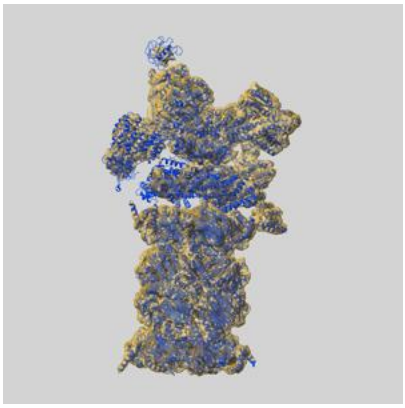
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-6574 and PDB model 3JCO. Per-residue inclusion information can be found in section 3 on page 11.

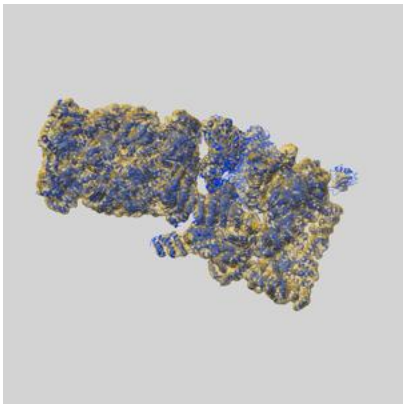
9.1 Map-model overlay



X



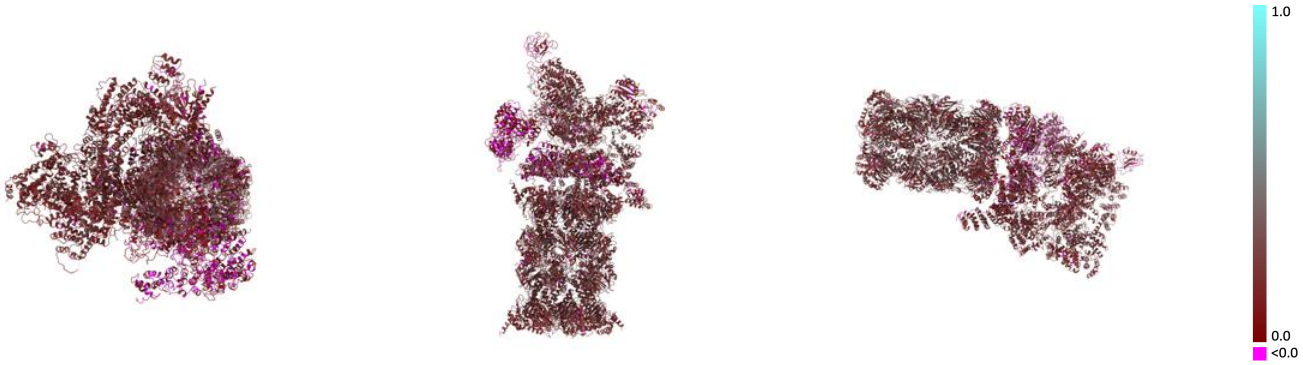
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0796 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.

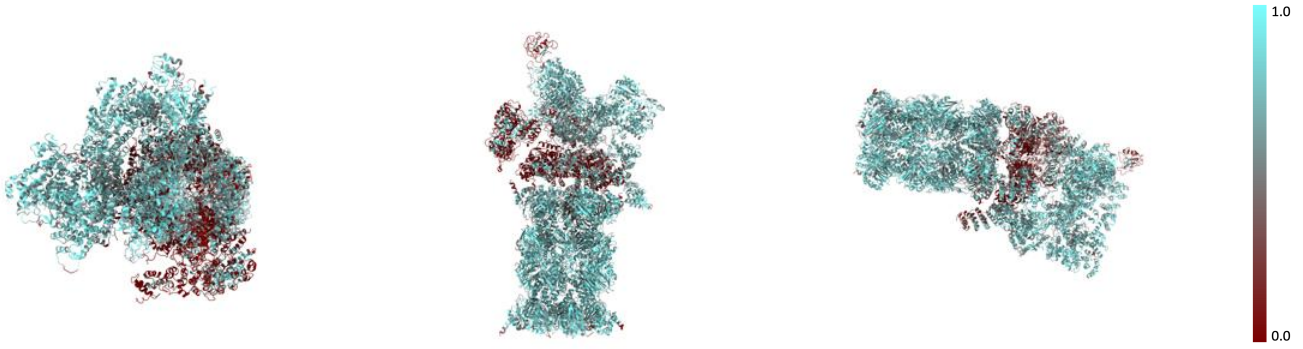
9.2 Q-score mapped to coordinate model



X Y Z

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.

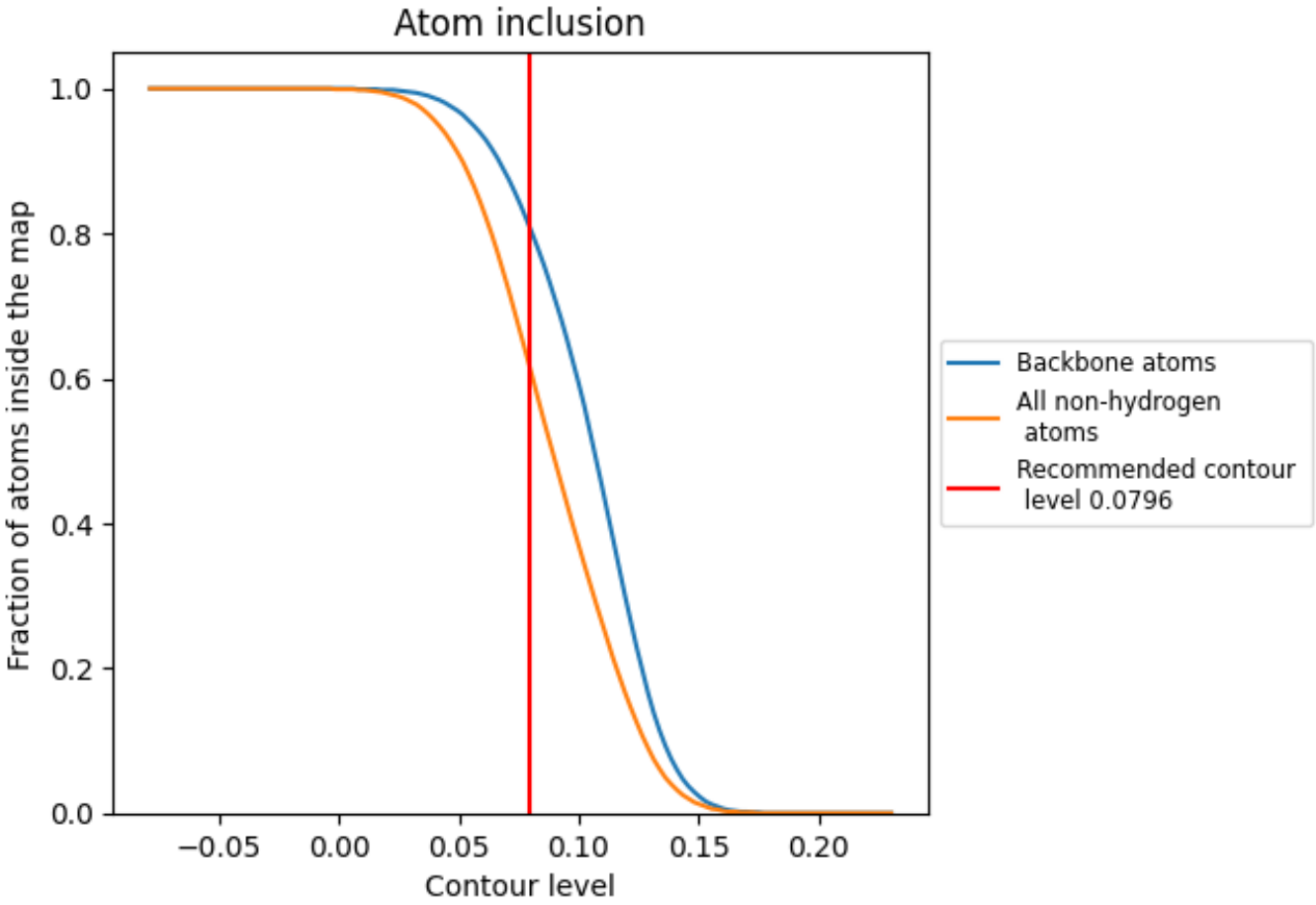
9.3 Atom inclusion mapped to coordinate model



X Y Z

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 (0.0796).

9.4 Atom inclusion (i)



At the recommended contour level, 81% of all backbone atoms, 62% 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 (0.0796) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6150	0.1970
1	0.7600	0.2350
2	0.7590	0.2410
3	0.7480	0.2260
4	0.7700	0.2470
5	0.7450	0.2370
6	0.7400	0.2460
7	0.7870	0.2420
8	0.7450	0.2370
9	0.7690	0.2520
A	0.7390	0.2260
B	0.7170	0.2290
C	0.7310	0.2230
D	0.7380	0.2270
E	0.7170	0.2180
F	0.7710	0.2260
G	0.7640	0.2280
H	0.4060	0.1470
I	0.1910	0.1290
J	0.1750	0.1340
K	0.2910	0.1550
L	0.3850	0.1530
M	0.3830	0.1410
N	0.7290	0.2100
O	0.7200	0.1850
P	0.7060	0.1950
Q	0.5650	0.1860
R	0.6670	0.1940
S	0.7030	0.1980
T	0.6840	0.1910
U	0.6970	0.2230
V	0.6860	0.2170
W	0.7470	0.1710
X	0.1390	0.0830
Y	0.6850	0.2300

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Chain	Atom inclusion	Q-score
Z	0.2790	0.0830
a	0.6550	0.2270
b	0.5630	0.2210
c	0.5780	0.2030
d	0.6210	0.2070
e	0.6690	0.2200
f	0.7220	0.2280
g	0.6890	0.2260
h	0.7570	0.2380
i	0.7460	0.2500
j	0.7390	0.2330
k	0.7170	0.2370
l	0.7920	0.2390