Full wwPDB EM Validation Report

Mar 9, 2026 – 04:05 AM UTC

PDB ID	:	8H3V / pdb_00008h3v
EMDB ID	:	EMD-34475
Title	:	Cryo-EM structure of the full transcription activation complex NtcA-NtcB-TAC
Authors	:	Han, S.J.; Jiang, Y.L.; You, L.L.; Shen, L.Q.; Wu, X.X.; Yang, F.; Kong, W.W.; Chen, Z.P.; Zhang, Y.; Zhou, C.Z.
Deposited on	:	2022-10-09
Resolution	:	4.50 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

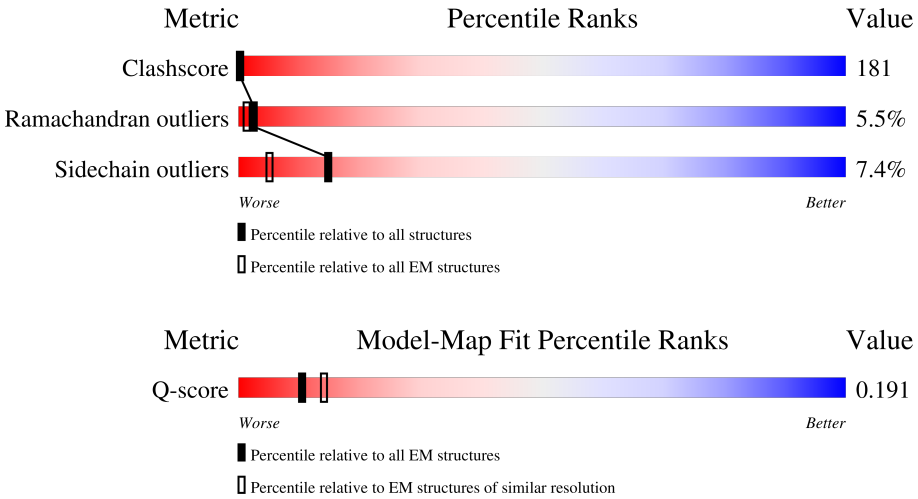
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.50 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	2937 (4.00 - 5.00)

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	125	7% 38% 48% • 10%
2	2	125	6% 37% 31% 9% 23%
3	A	1132	• 7% 55% 28% 5% 5%
4	B	1350	11% 8% 56% 23% • 10%

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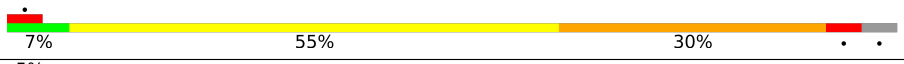
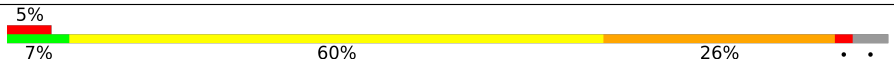
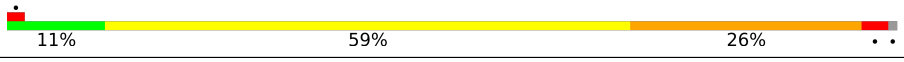
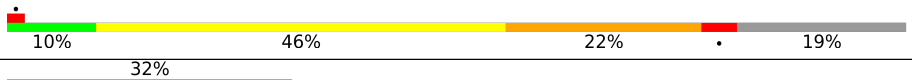
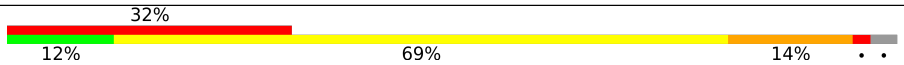
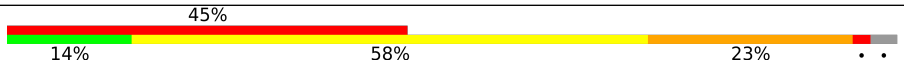
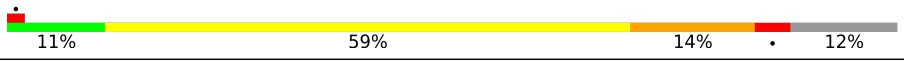
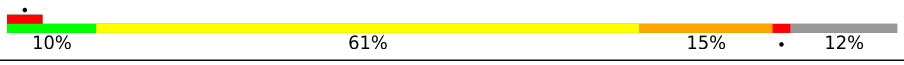
Mol	Chain	Length	Quality of chain
5	C	236	
5	D	236	
6	E	625	
7	F	78	
8	G	390	
9	S	312	
9	T	312	
9	U	312	
9	V	312	
10	X	223	
10	Y	223	

2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 46048 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 DNA chain called DNA (125-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	1	112	2302	1102	425	663	112	0	0

- Molecule 2 is a DNA chain called DNA (125-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
2	2	96	1967	946	341	584	96	0	0

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	A	1077	8473	5326	1505	1618	24	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	initiating methionine	UNP P22703
A	1	VAL	-	expression tag	UNP P22703

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	B	1217	9292	5802	1639	1823	28	0	0

- Molecule 5 is a protein called DNA-directed RNA polymerase subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	C	226	1762	1106	305	346	5	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	D	226	Total	C	N	O	S	0	0
			1762	1106	305	346	5		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	0	MET	-	initiating methionine	UNP Q8YPK3
C	1	VAL	-	expression tag	UNP Q8YPK3
D	0	MET	-	initiating methionine	UNP Q8YPK3
D	1	VAL	-	expression tag	UNP Q8YPK3

- Molecule 6 is a protein called DNA-directed RNA polymerase subunit gamma.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	E	619	Total	C	N	O	S	0	0
			4918	3104	884	909	21		

- Molecule 7 is a protein called DNA-directed RNA polymerase subunit omega.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	F	58	Total	C	N	O	S	0	0
			474	290	90	90	4		

- Molecule 8 is a protein called RNA polymerase sigma factor SigA.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	G	314	Total	C	N	O	S	0	0
			2600	1628	482	484	6		

- Molecule 9 is a protein called NtcB.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	S	304	Total	C	N	O	S	0	0
			2389	1518	423	438	10		
9	T	294	Total	C	N	O	S	0	0
			2320	1477	411	422	10		
9	U	294	Total	C	N	O	S	0	0
			2320	1477	411	422	10		
9	V	304	Total	C	N	O	S	0	0
			2389	1518	423	438	10		

- Molecule 10 is a protein called NtcA.

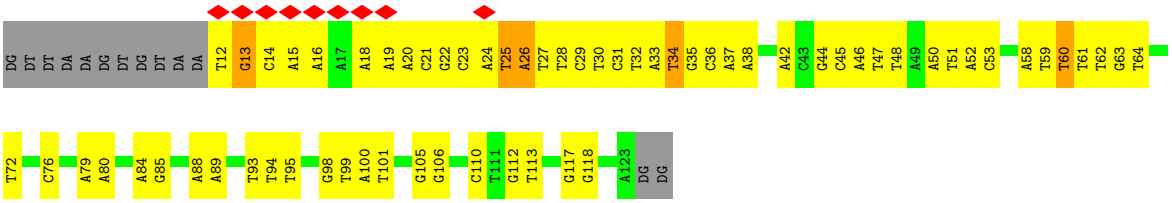
Mol	Chain	Residues	Atoms					AltConf	Trace
10	X	196	Total	C	N	O	S	0	0
			1540	984	268	280	8		
10	Y	196	Total	C	N	O	S	0	0
			1540	984	268	280	8		

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.

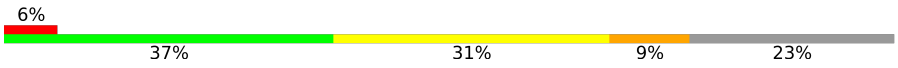
• Molecule 1: DNA (125-MER)

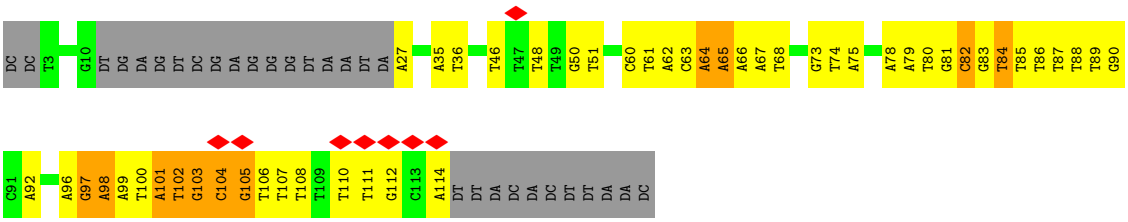
Chain 1:



• Molecule 2: DNA (125-MER)

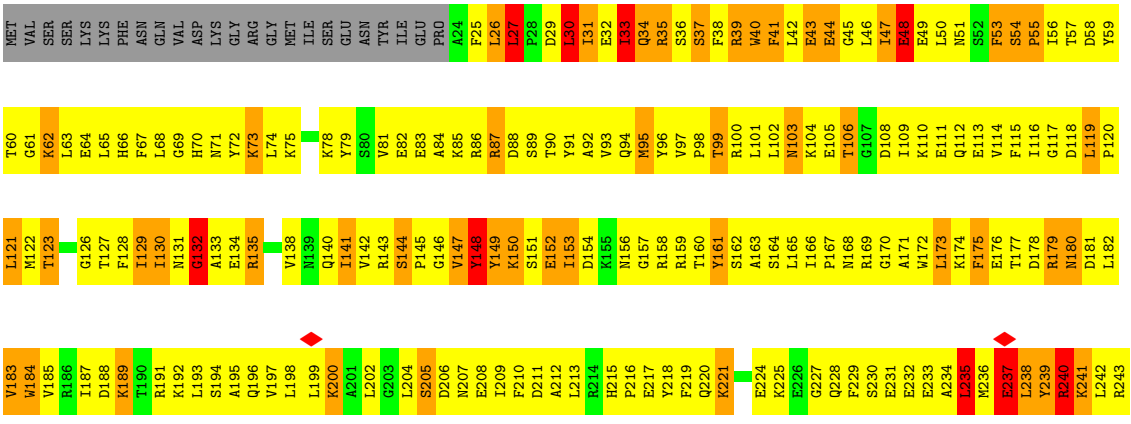
Chain 2:

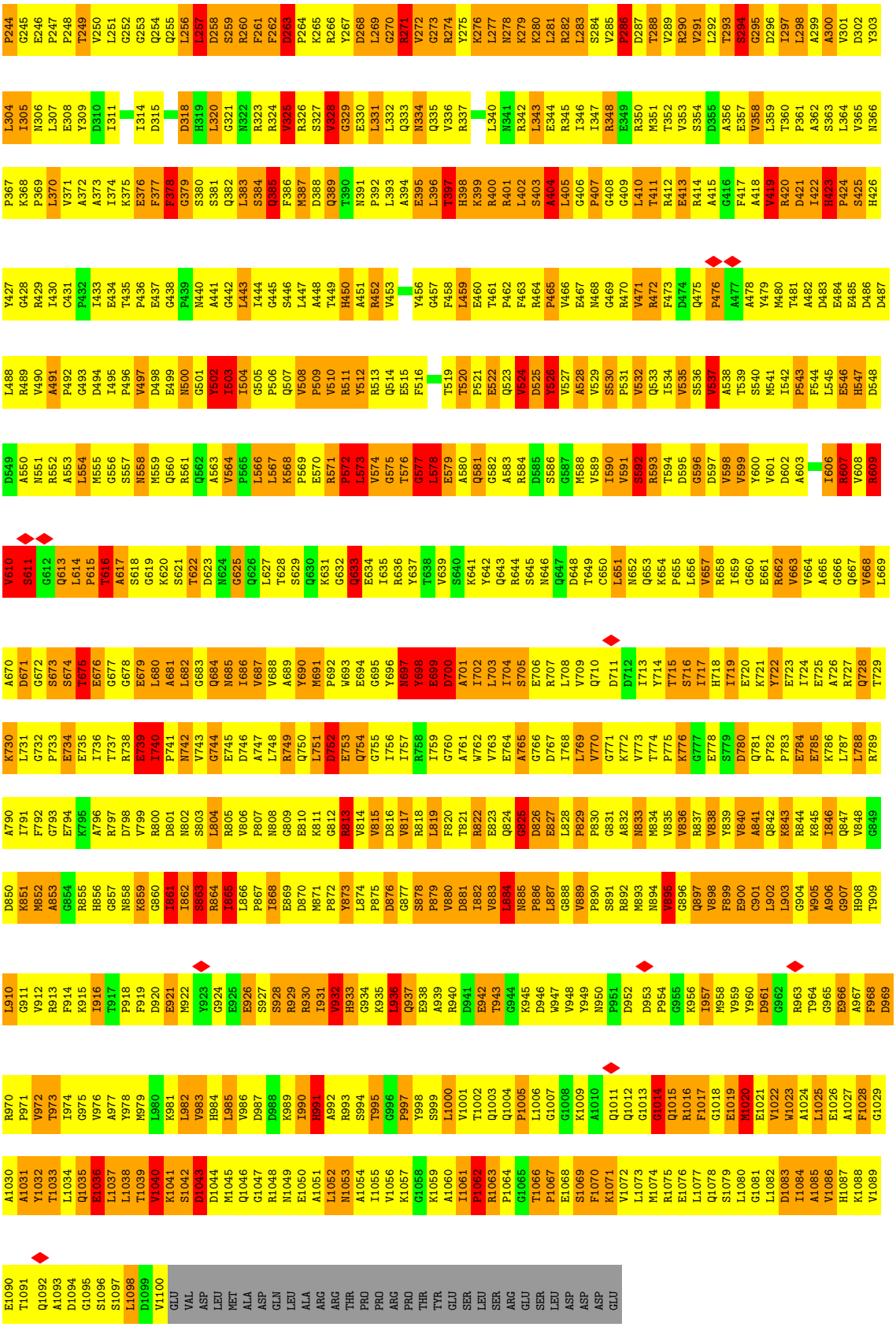




• Molecule 3: DNA-directed RNA polymerase subunit beta

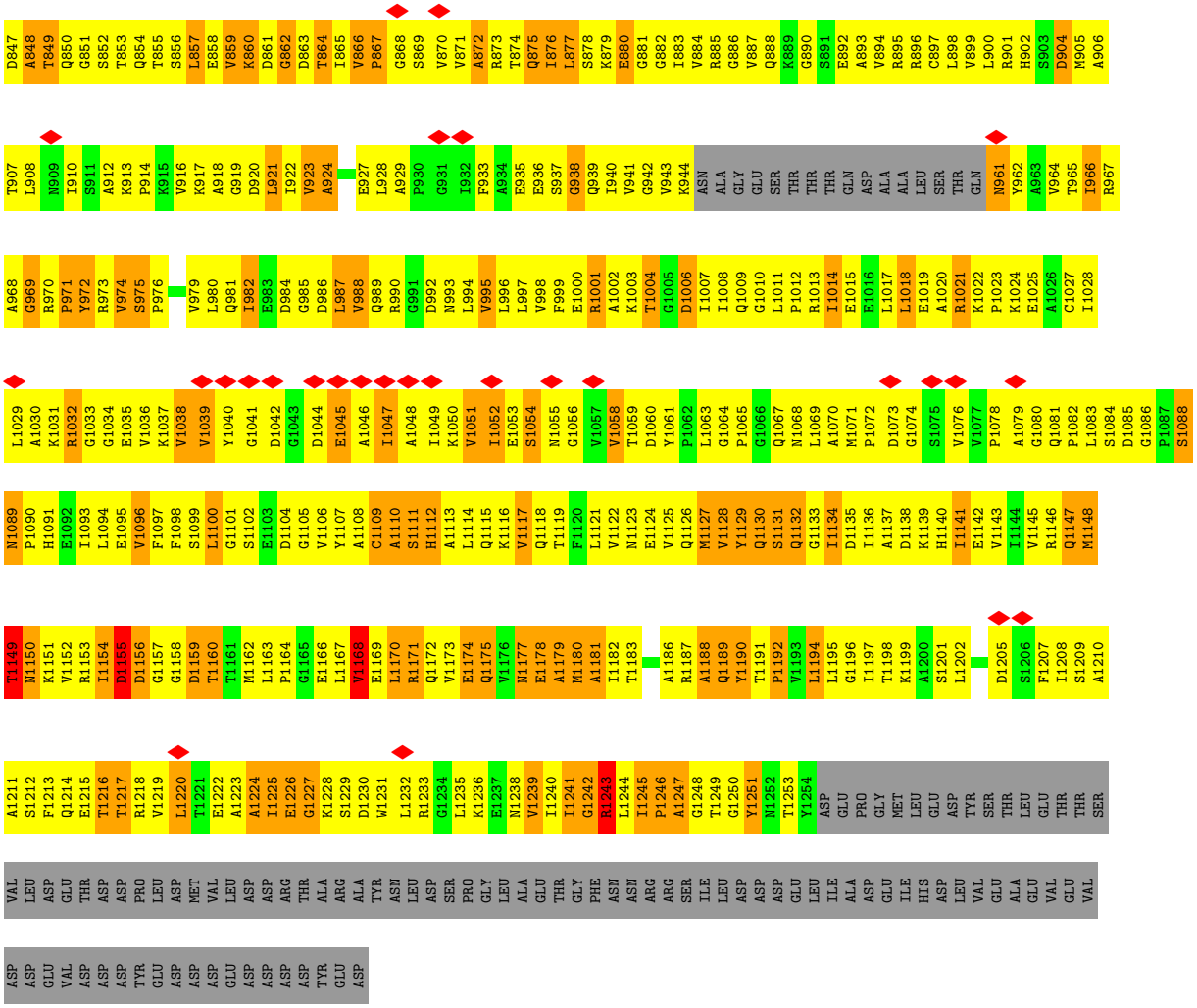
Chain A:





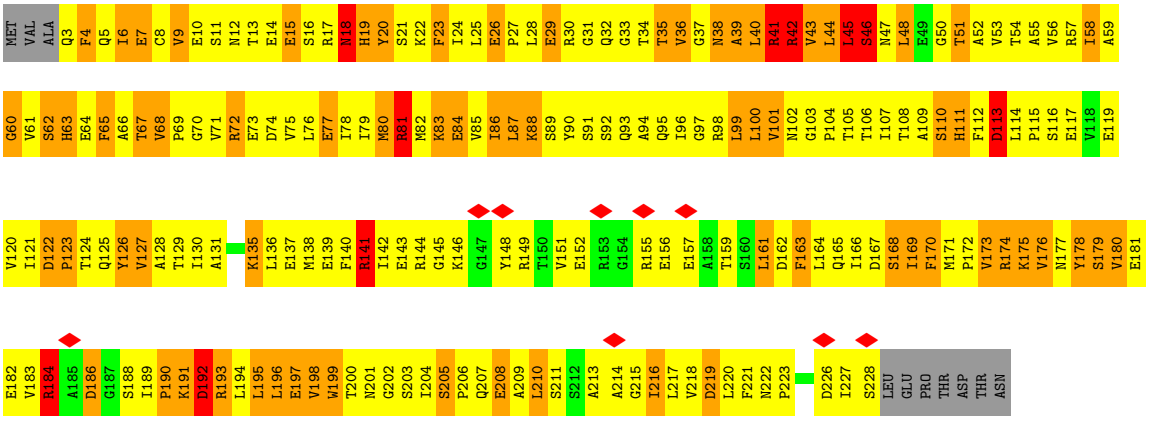
• Molecule 4: DNA-directed RNA polymerase subunit beta'

Chain B:



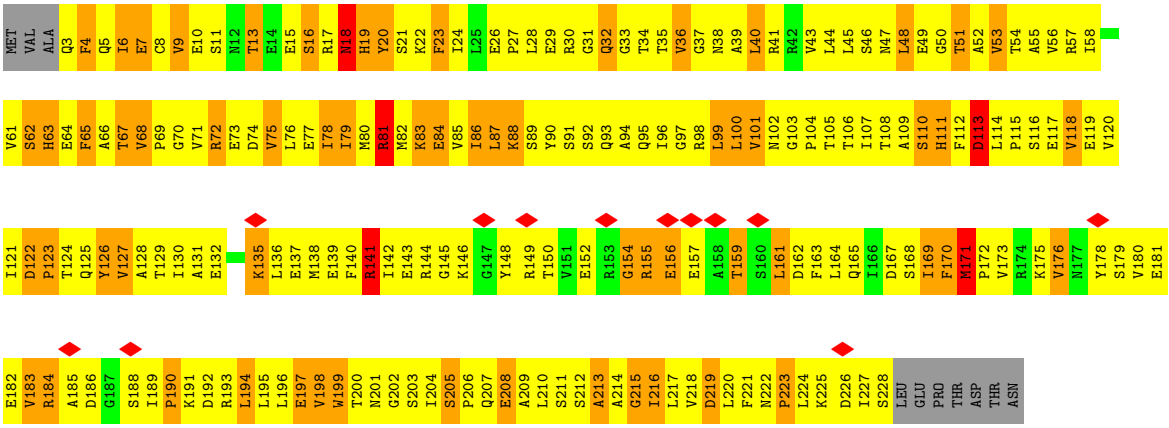
• Molecule 5: DNA-directed RNA polymerase subunit alpha

Chain C:



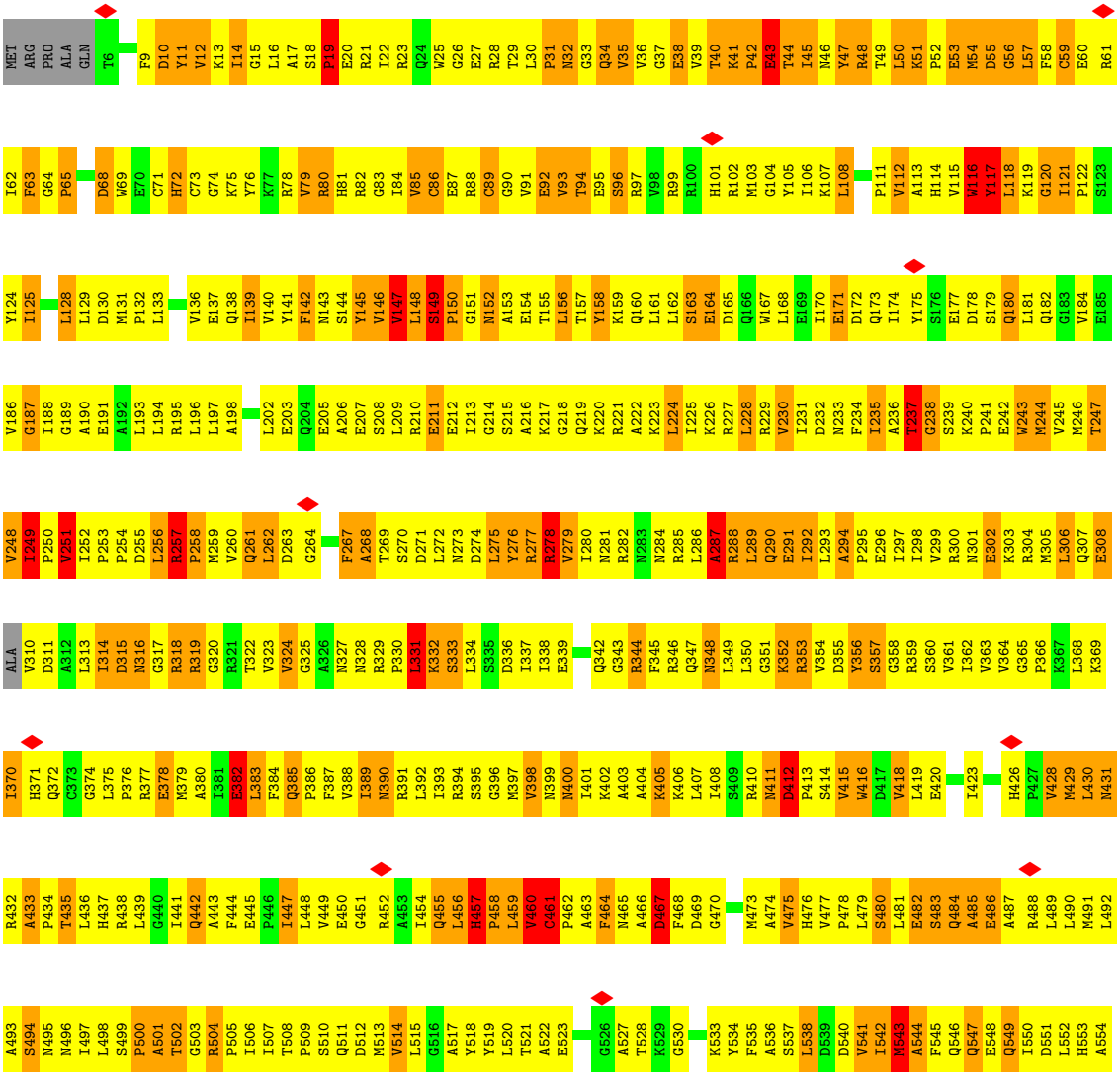
• Molecule 5: DNA-directed RNA polymerase subunit alpha

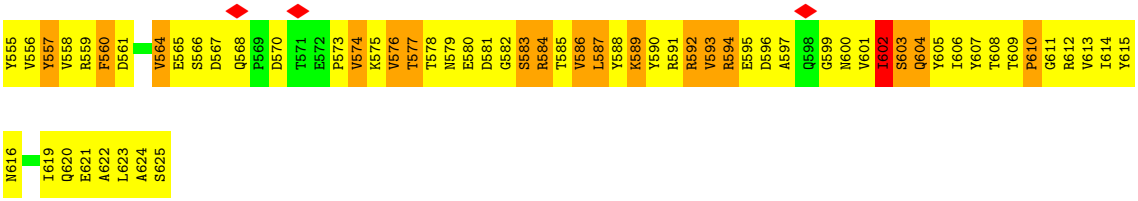
Chain D:



• Molecule 6: DNA-directed RNA polymerase subunit gamma

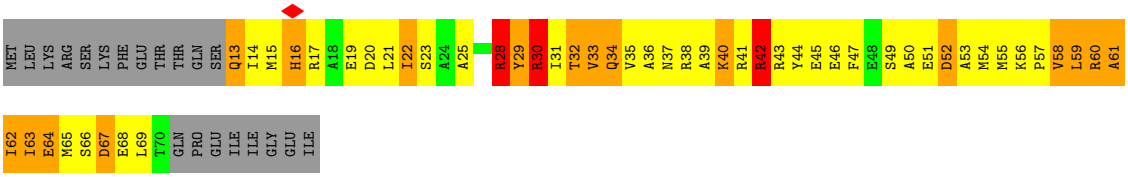
Chain E:





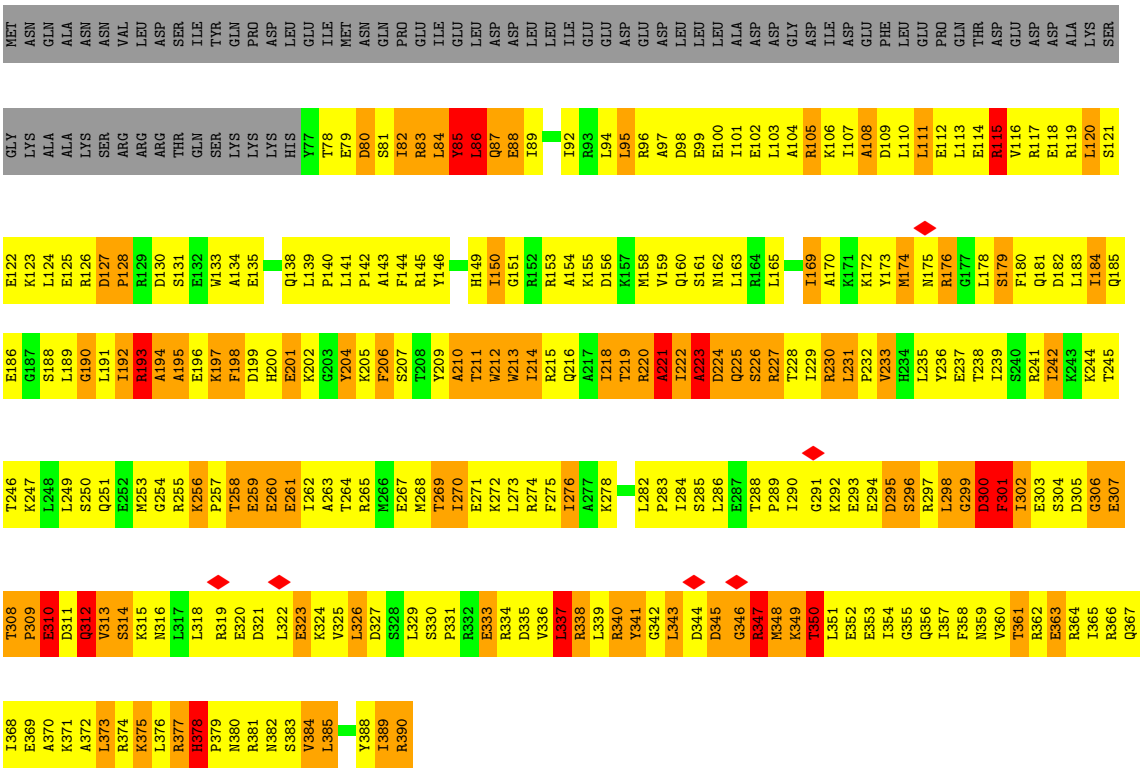
• Molecule 7: DNA-directed RNA polymerase subunit omega

Chain F:



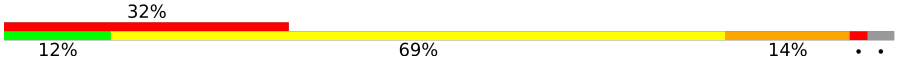
• Molecule 8: RNA polymerase sigma factor SigA

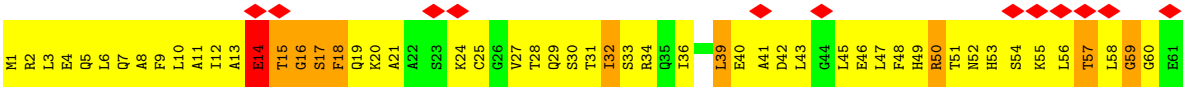
Chain G:

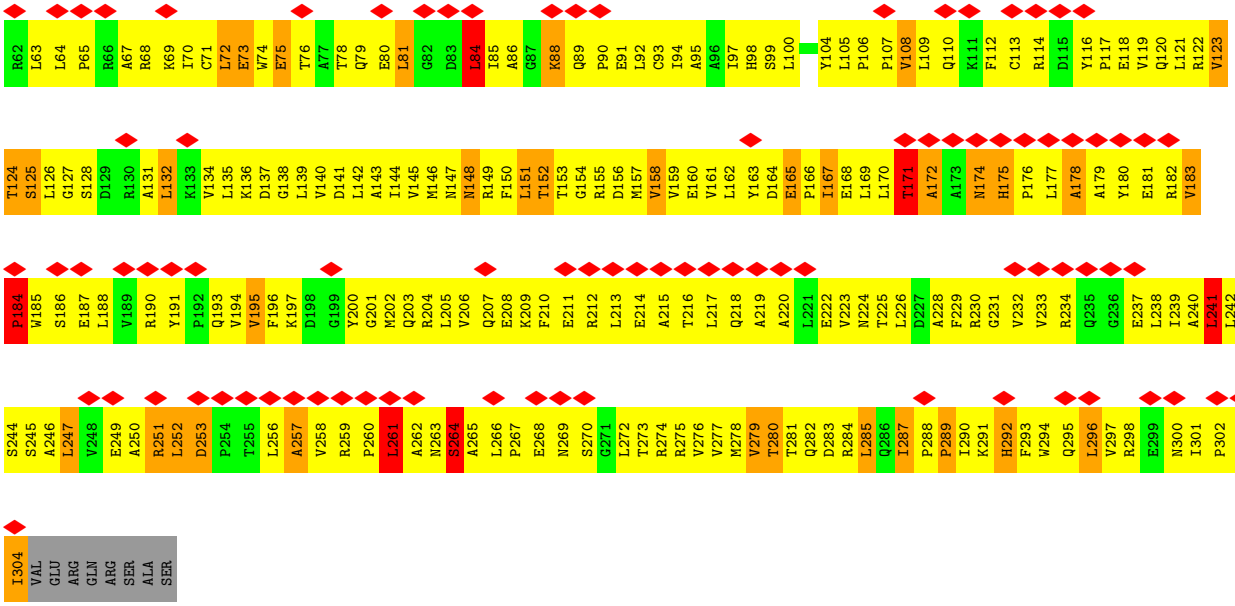


• Molecule 9: NtcB

Chain S:

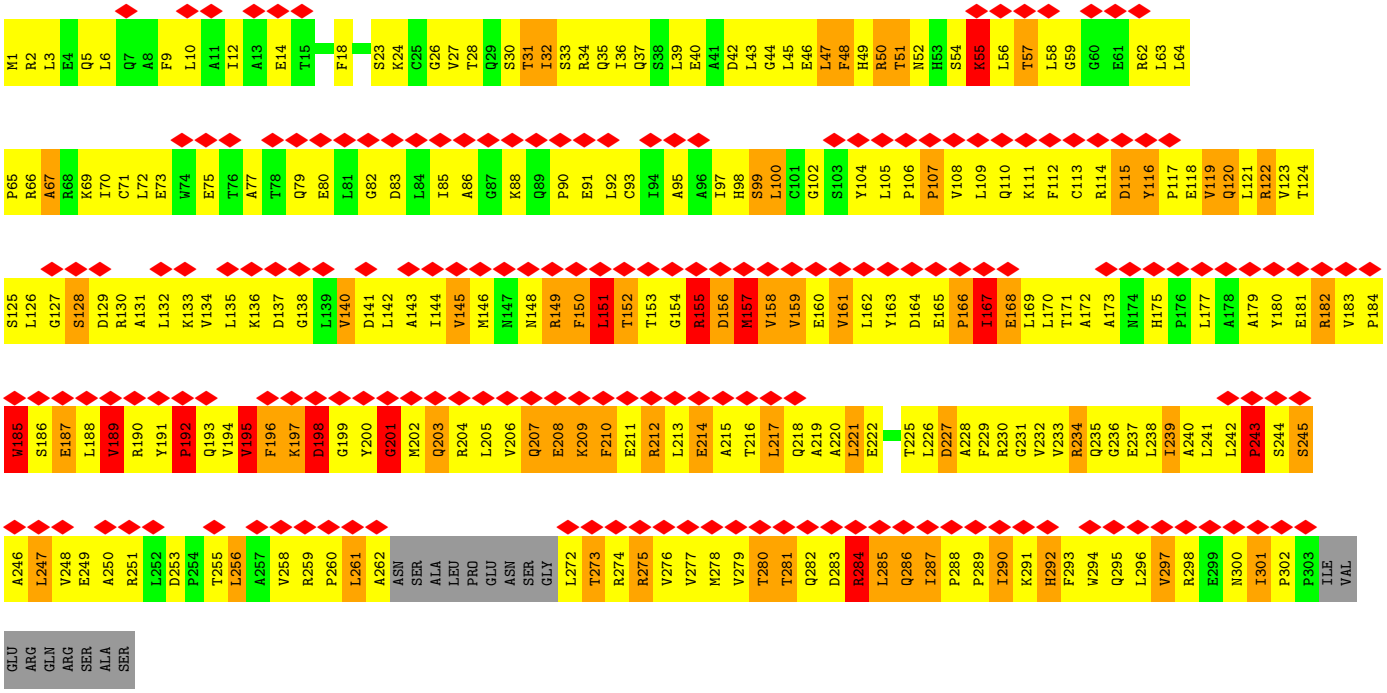






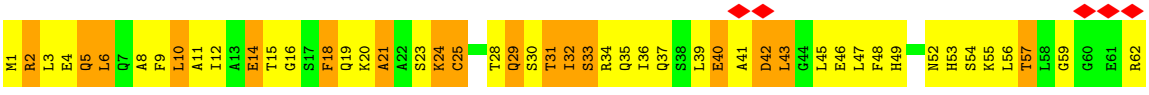
• Molecule 9: NtcB

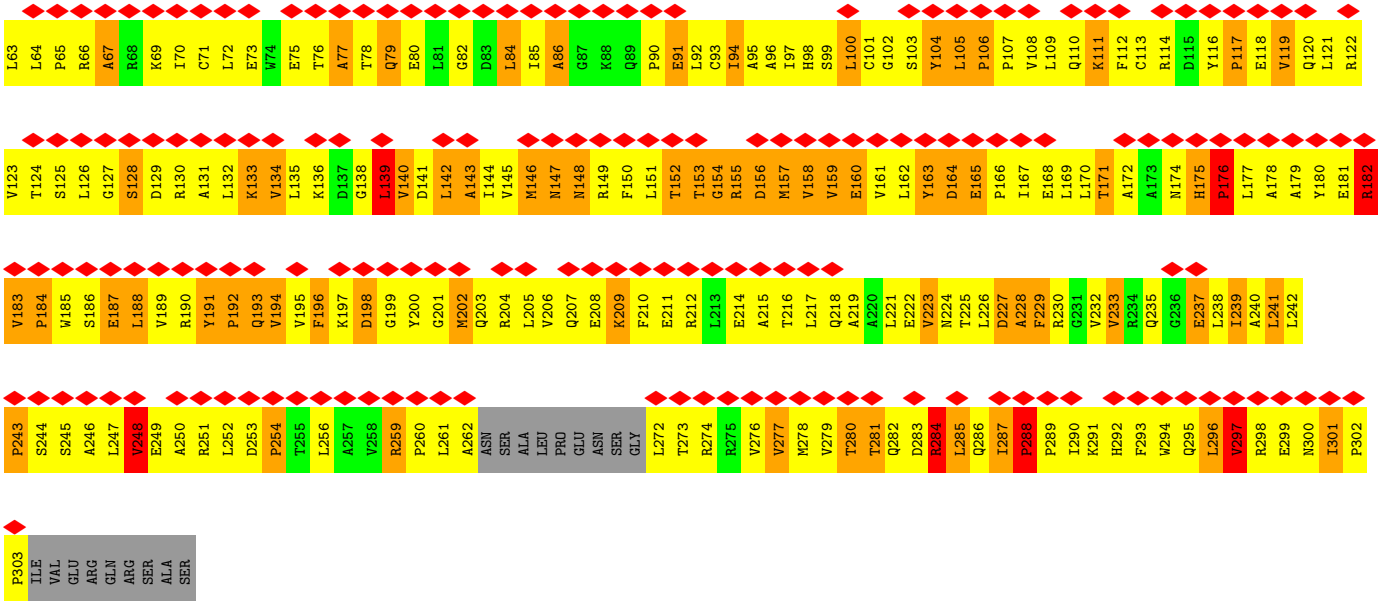
Chain T:



• Molecule 9: NtcB

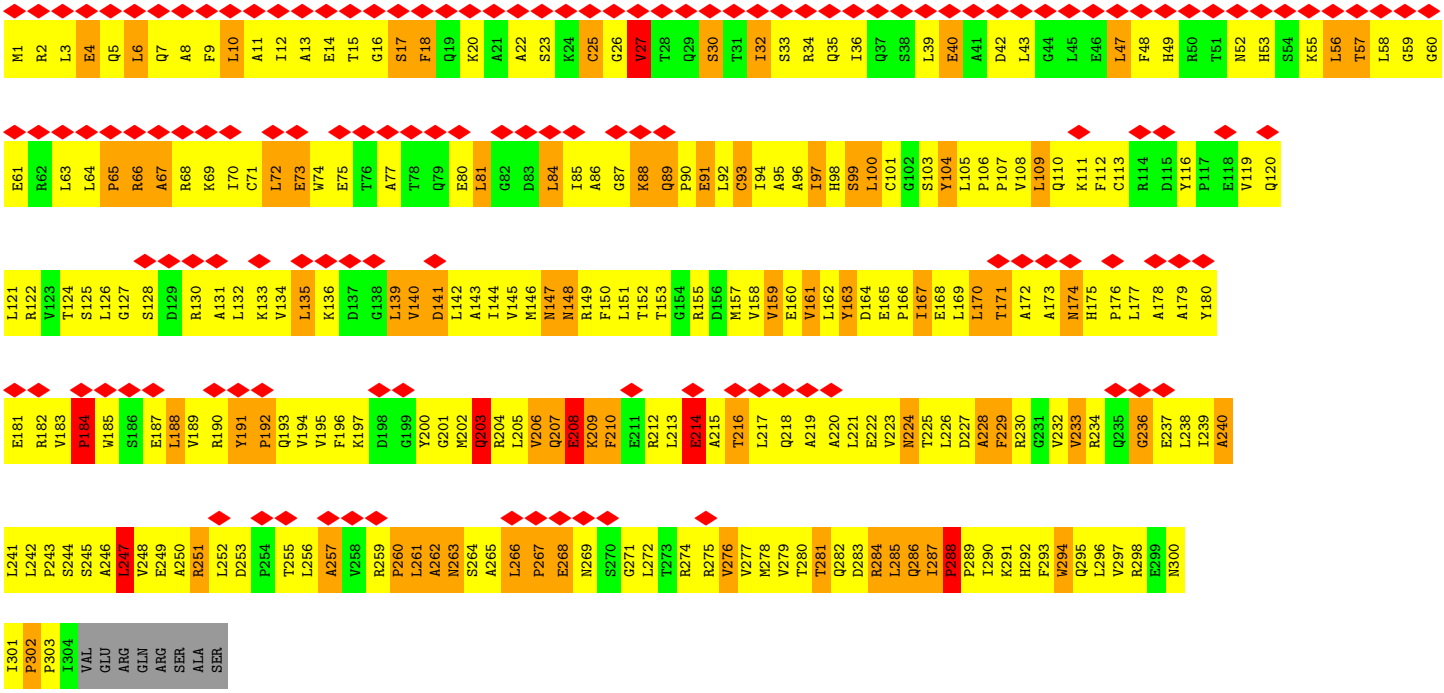
Chain U:





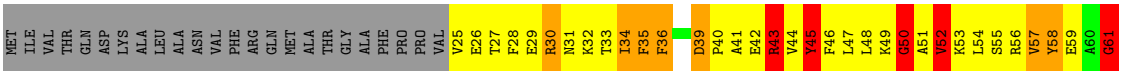
• Molecule 9: NtcB

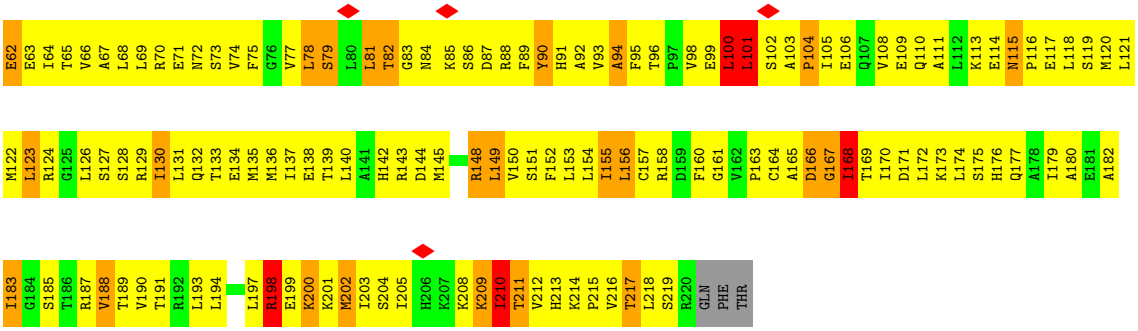
Chain V:



• Molecule 10: NtcA

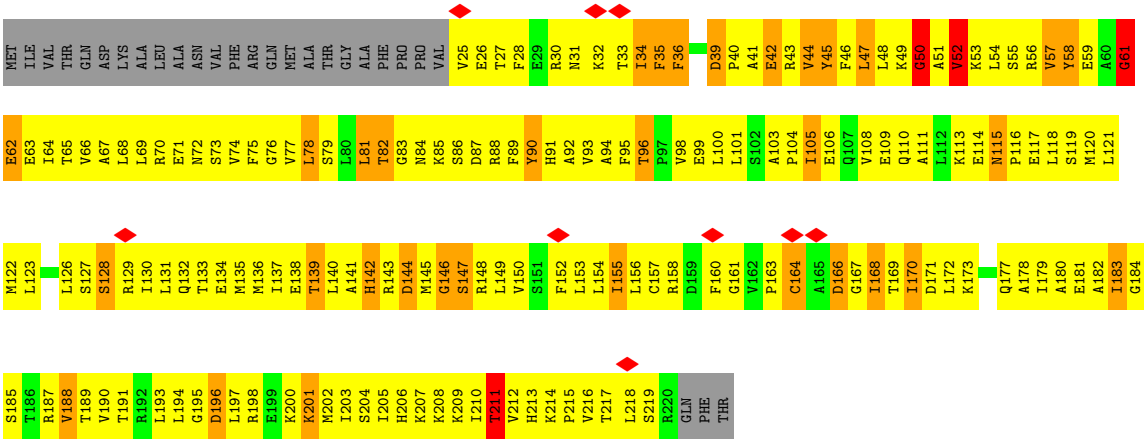
Chain X:





- Molecule 10: NtcA

Chain Y:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	65446	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	2200	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.337	Depositor
Minimum map value	-1.526	Depositor
Average map value	0.007	Depositor
Map value standard deviation	0.055	Depositor
Recommended contour level	0.2	Depositor
Map size (Å)	374.50003, 374.50003, 374.50003	wwPDB
Map dimensions	350, 350, 350	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.07, 1.07, 1.07	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	0.41	0/2585	0.77	7/3985 (0.2%)
2	2	0.44	0/2202	0.74	11/3395 (0.3%)
3	A	2.03	237/8632 (2.7%)	1.92	322/11688 (2.8%)
4	B	1.52	97/9414 (1.0%)	1.80	290/12760 (2.3%)
5	C	1.77	22/1788 (1.2%)	1.96	68/2420 (2.8%)
5	D	1.54	12/1788 (0.7%)	1.65	39/2420 (1.6%)
6	E	1.80	105/5009 (2.1%)	1.74	150/6782 (2.2%)
7	F	2.14	19/478 (4.0%)	2.04	25/639 (3.9%)
8	G	1.72	36/2635 (1.4%)	1.82	71/3533 (2.0%)
9	S	1.13	8/2431 (0.3%)	1.54	39/3301 (1.2%)
9	T	1.21	7/2360 (0.3%)	1.67	49/3202 (1.5%)
9	U	1.35	4/2360 (0.2%)	1.58	38/3202 (1.2%)
9	V	1.10	4/2431 (0.2%)	1.53	39/3301 (1.2%)
10	X	1.00	1/1563 (0.1%)	1.49	26/2107 (1.2%)
10	Y	1.00	1/1563 (0.1%)	1.46	25/2107 (1.2%)
All	All	1.53	553/47239 (1.2%)	1.67	1199/64842 (1.8%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	1	0
3	A	0	91
4	B	0	83
5	C	0	22
5	D	0	14
6	E	0	33
7	F	0	5
8	G	0	24
9	S	0	11
9	T	1	8

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Mol	Chain	#Chirality outliers	#Planarity outliers
9	U	0	13
9	V	0	12
10	X	0	10
10	Y	0	11
All	All	2	337

All (553) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	U	154	GLY	C-N	28.61	1.73	1.33
8	G	87	GLN	CA-C	-26.52	1.13	1.52
6	E	150	PRO	N-CD	-23.23	1.15	1.47
9	U	176	PRO	N-CD	-23.18	1.15	1.47
8	G	224	ASP	CA-C	-20.31	1.25	1.52
9	T	197	LYS	C-O	-20.07	0.99	1.24
4	B	1245	ILE	C-N	-18.31	1.10	1.33
4	B	61	SER	CA-C	-16.62	1.30	1.52
9	V	184	PRO	N-CD	-16.01	1.25	1.47
6	E	64	GLY	C-N	-14.73	1.15	1.33
3	A	423	HIS	N-CA	-14.45	1.25	1.46
4	B	972	TYR	CA-CB	-14.38	1.29	1.53
4	B	974	VAL	C-N	-13.89	1.04	1.33
3	A	1066	THR	C-N	-13.40	1.17	1.33
4	B	1181	ALA	CA-C	-13.04	1.35	1.52
3	A	698	TYR	CA-CB	-12.46	1.32	1.53
3	A	680	LEU	CA-CB	-12.39	1.36	1.53
6	E	41	LYS	C-N	-12.38	1.18	1.33
9	S	15	THR	N-CA	12.03	1.60	1.46
4	B	604	LEU	CA-CB	-11.93	1.35	1.52
9	S	15	THR	CA-C	11.71	1.66	1.52
6	E	116	TRP	CB-CG	-11.65	1.14	1.50
6	E	457	HIS	C-N	-11.35	1.07	1.33
3	A	881	ASP	CA-CB	-11.27	1.29	1.53
3	A	525	ASP	CB-CG	-11.21	1.24	1.52
6	E	383	LEU	CA-C	-11.18	1.37	1.52
6	E	249	ILE	C-N	-11.13	1.07	1.33
8	G	301	PHE	CB-CG	-11.10	1.25	1.50
3	A	568	LYS	C-N	-11.02	1.08	1.33
9	T	234	ARG	CA-C	-10.81	1.38	1.52
9	V	56	LEU	CA-CB	10.72	1.67	1.52
8	G	231	LEU	C-N	-10.46	1.20	1.33
9	S	14	GLU	C-N	10.36	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	461	CYS	C-N	-10.17	1.18	1.33
6	E	96	SER	CA-C	-10.09	1.39	1.52
9	S	16	GLY	N-CA	9.91	1.59	1.45
9	S	241	LEU	C-N	9.88	1.42	1.33
4	B	247	ASP	CB-CG	-9.77	1.27	1.52
6	E	257	ARG	C-N	-9.67	1.11	1.33
6	E	382	GLU	C-N	-9.60	1.20	1.33
3	A	27	LEU	C-N	-9.53	1.11	1.33
4	B	591	LEU	C-N	-9.53	1.19	1.33
9	S	15	THR	C-N	9.48	1.47	1.33
3	A	398	HIS	CA-C	-9.39	1.39	1.52
8	G	223	ALA	C-N	-9.14	1.21	1.34
3	A	878	SER	C-N	-9.06	1.12	1.33
6	E	43	GLU	CB-CG	-8.82	1.25	1.52
3	A	899	PHE	CB-CG	-8.78	1.30	1.50
3	A	880	VAL	C-N	-8.76	1.18	1.34
6	E	50	LEU	C-N	-8.76	1.24	1.33
3	A	1017	PHE	CB-CG	-8.73	1.30	1.50
3	A	698	TYR	CB-CG	-8.71	1.32	1.51
4	B	43	TYR	CB-CG	-8.60	1.32	1.51
4	B	288	CYS	CB-SG	-8.57	1.52	1.81
3	A	905	TRP	CB-CG	-8.53	1.23	1.50
3	A	905	TRP	CA-C	-8.43	1.40	1.52
3	A	607	ARG	CB-CG	-8.41	1.27	1.52
9	T	157	MET	CG-SD	8.36	2.01	1.80
9	V	170	LEU	CA-CB	8.29	1.64	1.53
3	A	564	VAL	C-N	-8.29	1.14	1.33
3	A	722	TYR	CB-CG	-8.23	1.33	1.51
8	G	86	LEU	C-N	-8.22	1.23	1.33
9	V	208	GLU	C-O	-8.22	1.13	1.23
4	B	43	TYR	CD1-CE1	-8.21	1.14	1.38
6	E	457	HIS	CA-C	-8.22	1.42	1.52
9	S	184	PRO	N-CD	-8.17	1.36	1.47
3	A	861	ILE	CG1-CD1	-8.16	1.20	1.51
3	A	423	HIS	C-N	-8.16	1.14	1.33
6	E	502	THR	CA-C	-8.15	1.42	1.52
8	G	224	ASP	N-CA	-8.14	1.36	1.46
3	A	899	PHE	CA-C	-8.10	1.42	1.52
9	S	84	LEU	C-O	-7.95	1.14	1.24
3	A	991	HIS	CB-CG	-7.90	1.39	1.50
6	E	431	ASN	CB-CG	-7.90	1.32	1.52
3	A	184	TRP	CB-CG	-7.89	1.25	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	460	VAL	C-N	-7.89	1.17	1.33
3	A	530	SER	C-N	-7.85	1.15	1.33
6	E	40	THR	C-N	-7.82	1.22	1.33
6	E	416	TRP	CB-CG	-7.74	1.26	1.50
4	B	258	ALA	C-N	-7.73	1.23	1.34
6	E	502	THR	CA-CB	-7.70	1.41	1.53
3	A	865	ILE	CA-CB	-7.64	1.44	1.54
5	C	178	TYR	CA-CB	-7.62	1.43	1.53
3	A	1033	THR	CA-CB	-7.62	1.41	1.53
9	U	84	LEU	C-O	-7.62	1.14	1.24
3	A	510	VAL	CA-CB	-7.59	1.50	1.55
9	U	243	PRO	N-CD	-7.58	1.37	1.47
4	B	1245	ILE	CG1-CD1	-7.58	1.22	1.51
3	A	573	LEU	CA-CB	-7.54	1.44	1.53
6	E	51	LYS	C-N	-7.52	1.16	1.33
4	B	223	ARG	C-N	-7.51	1.23	1.33
4	B	24	TYR	CB-CG	-7.49	1.35	1.51
6	E	261	GLN	CG-CD	-7.49	1.33	1.52
3	A	698	TYR	CG-CD1	-7.40	1.23	1.39
3	A	572	PRO	C-N	-7.38	1.24	1.33
3	A	983	VAL	CA-C	-7.36	1.43	1.52
4	B	737	LEU	CA-CB	-7.34	1.41	1.53
9	T	157	MET	CB-CG	7.33	1.74	1.52
3	A	883	VAL	CB-CG1	-7.32	1.28	1.52
3	A	258	ASP	CB-CG	-7.30	1.33	1.52
7	F	29	TYR	CA-C	-7.26	1.43	1.52
8	G	213	TRP	CB-CG	-7.24	1.27	1.50
4	B	1190	TYR	C-N	-7.24	1.28	1.33
3	A	862	ILE	CA-CB	-7.23	1.45	1.54
3	A	881	ASP	CB-CG	-7.23	1.33	1.52
4	B	41	PHE	CA-C	-7.23	1.43	1.52
6	E	38	GLU	CB-CG	-7.22	1.30	1.52
5	C	175	LYS	C-N	-7.21	1.29	1.33
3	A	1063	ARG	C-N	-7.18	1.17	1.33
3	A	1017	PHE	CD1-CE1	-7.16	1.17	1.38
8	G	378	HIS	C-N	-7.16	1.26	1.34
3	A	865	ILE	CB-CG2	-7.12	1.29	1.52
3	A	685	ASN	CA-CB	-7.08	1.40	1.53
3	A	968	PHE	CB-CG	-7.08	1.34	1.50
3	A	33	ILE	CA-C	-7.08	1.43	1.52
6	E	276	TYR	CE2-CZ	-7.07	1.21	1.38
6	E	459	LEU	C-N	-7.06	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	457	HIS	CB-CG	-7.05	1.40	1.50
8	G	192	ILE	CG1-CD1	-7.05	1.24	1.51
4	B	43	TYR	CD2-CE2	-7.01	1.17	1.38
6	E	251	VAL	CB-CG2	-7.01	1.29	1.52
3	A	997	PRO	CA-C	-7.00	1.45	1.52
4	B	19	TRP	CB-CG	-6.95	1.28	1.50
5	D	23	PHE	CB-CG	-6.93	1.34	1.50
6	E	429	MET	CA-CB	-6.92	1.39	1.54
5	C	23	PHE	CB-CG	-6.91	1.34	1.50
4	B	43	TYR	CA-C	-6.91	1.44	1.52
3	A	572	PRO	CA-C	-6.91	1.42	1.52
6	E	41	LYS	CA-C	-6.91	1.44	1.52
3	A	175	PHE	CB-CG	-6.90	1.34	1.50
6	E	279	VAL	CB-CG1	-6.88	1.29	1.52
5	C	44	LEU	N-CA	-6.88	1.38	1.46
6	E	382	GLU	CA-C	-6.85	1.43	1.52
3	A	852	MET	CA-CB	-6.83	1.42	1.53
4	B	41	PHE	CB-CG	-6.81	1.34	1.50
3	A	701	ALA	C-N	-6.81	1.18	1.33
3	A	862	ILE	CA-C	-6.80	1.44	1.52
7	F	28	ARG	CB-CG	-6.77	1.32	1.52
3	A	398	HIS	N-CA	-6.74	1.37	1.46
5	C	180	VAL	CA-CB	-6.74	1.50	1.55
3	A	864	ARG	C-N	-6.73	1.24	1.33
3	A	900	GLU	CB-CG	-6.73	1.32	1.52
3	A	525	ASP	CA-CB	-6.73	1.42	1.53
3	A	699	GLU	CB-CG	-6.72	1.32	1.52
4	B	1130	GLN	CA-C	-6.71	1.44	1.52
8	G	85	TYR	CA-C	-6.69	1.43	1.52
7	F	62	ILE	C-N	-6.67	1.25	1.33
5	C	81	ARG	CA-C	-6.67	1.46	1.53
3	A	884	LEU	CG-CD2	-6.64	1.30	1.52
6	E	460	VAL	CA-C	-6.63	1.46	1.53
4	B	1246	PRO	N-CA	-6.58	1.39	1.46
3	A	1041	LYS	CG-CD	-6.57	1.32	1.52
5	D	81	ARG	CA-C	-6.57	1.46	1.53
3	A	1041	LYS	CB-CG	-6.57	1.32	1.52
3	A	990	ILE	CA-C	-6.56	1.44	1.52
3	A	400	ARG	CA-CB	-6.56	1.41	1.53
3	A	897	GLN	CA-C	-6.53	1.43	1.52
5	D	216	ILE	CA-C	-6.52	1.44	1.52
4	B	98	TRP	CB-CG	-6.52	1.30	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	83	LYS	C-N	-6.52	1.25	1.33
3	A	868	ILE	CB-CG2	-6.52	1.31	1.52
6	E	251	VAL	CB-CG1	-6.51	1.31	1.52
3	A	973	THR	CA-CB	-6.51	1.43	1.53
5	C	40	LEU	CA-C	-6.50	1.44	1.52
6	E	116	TRP	CA-CB	-6.50	1.44	1.53
8	G	87	GLN	N-CA	-6.49	1.38	1.46
6	E	416	TRP	CA-C	-6.47	1.44	1.52
3	A	1086	VAL	CB-CG1	-6.47	1.31	1.52
5	C	83	LYS	C-N	-6.46	1.25	1.33
3	A	862	ILE	CB-CG2	-6.44	1.31	1.52
6	E	247	THR	CA-CB	-6.44	1.43	1.53
3	A	578	LEU	N-CA	-6.43	1.39	1.46
3	A	423	HIS	CA-CB	-6.39	1.43	1.53
6	E	47	TYR	CB-CG	-6.39	1.37	1.51
4	B	1131	SER	N-CA	-6.38	1.38	1.46
4	B	19	TRP	CE2-CZ2	-6.37	1.26	1.39
3	A	829	PRO	C-N	-6.35	1.19	1.33
3	A	33	ILE	CB-CG1	-6.34	1.40	1.53
6	E	428	VAL	CB-CG2	-6.34	1.31	1.52
8	G	111	LEU	C-N	-6.33	1.24	1.33
3	A	148	TYR	CA-C	-6.33	1.47	1.53
3	A	379	GLY	CA-C	-6.31	1.45	1.52
3	A	852	MET	CB-CG	-6.30	1.33	1.52
4	B	17	ILE	CB-CG2	-6.29	1.31	1.52
4	B	280	VAL	CA-CB	-6.29	1.51	1.55
6	E	314	ILE	CB-CG2	-6.29	1.31	1.52
3	A	1017	PHE	CD2-CE2	-6.28	1.19	1.38
6	E	302	GLU	CA-C	-6.27	1.43	1.52
8	G	309	PRO	N-CD	-6.26	1.39	1.47
9	T	168	GLU	N-CA	6.26	1.53	1.45
3	A	148	TYR	CD2-CE2	-6.25	1.20	1.38
3	A	1053	ASN	CB-CG	-6.25	1.36	1.52
3	A	684	GLN	CG-CD	-6.24	1.36	1.52
3	A	573	LEU	N-CA	-6.24	1.40	1.46
3	A	376	GLU	CB-CG	-6.24	1.33	1.52
4	B	1130	GLN	C-N	-6.23	1.25	1.33
8	G	88	GLU	CB-CG	-6.23	1.33	1.52
3	A	704	ILE	CA-CB	-6.23	1.46	1.55
4	B	202	ASP	CB-CG	-6.22	1.36	1.52
6	E	383	LEU	N-CA	-6.22	1.37	1.46
5	C	176	VAL	CA-CB	-6.21	1.51	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	301	PHE	CA-CB	-6.21	1.41	1.54
6	E	292	ILE	CA-C	-6.20	1.45	1.52
6	E	261	GLN	CB-CG	-6.20	1.33	1.52
6	E	116	TRP	C-N	-6.19	1.24	1.33
3	A	1038	LEU	N-CA	-6.19	1.38	1.46
6	E	93	VAL	N-CA	-6.19	1.38	1.46
8	G	230	ARG	C-N	-6.18	1.23	1.33
3	A	263	ASP	C-N	-6.17	1.19	1.33
3	A	703	LEU	CG-CD1	-6.16	1.32	1.52
3	A	1061	ILE	C-N	-6.15	1.19	1.33
8	G	225	GLN	CB-CG	-6.15	1.33	1.52
3	A	785	GLU	CB-CG	-6.13	1.34	1.52
3	A	698	TYR	CD2-CE2	-6.12	1.20	1.38
4	B	170	THR	CA-CB	-6.12	1.43	1.53
3	A	607	ARG	CA-CB	-6.10	1.43	1.53
6	E	480	SER	C-N	-6.10	1.26	1.33
6	E	224	LEU	CA-C	-6.10	1.45	1.52
3	A	399	LYS	CA-C	-6.09	1.44	1.52
6	E	249	ILE	CB-CG2	-6.07	1.32	1.52
4	B	287	THR	N-CA	-6.07	1.38	1.46
4	B	179	ALA	CA-C	-6.07	1.45	1.52
4	B	3	PHE	CD1-CE1	-6.05	1.20	1.38
3	A	571	ARG	CB-CG	-6.05	1.34	1.52
6	E	292	ILE	N-CA	-6.05	1.40	1.46
7	F	29	TYR	CD2-CE2	-6.04	1.20	1.38
3	A	968	PHE	CA-CB	-6.04	1.43	1.53
3	A	868	ILE	CG1-CD1	-6.04	1.28	1.51
3	A	901	CYS	CA-C	-6.04	1.44	1.52
4	B	15	ASN	CB-CG	-6.03	1.36	1.52
6	E	117	TYR	CA-C	-6.03	1.45	1.52
3	A	753	GLU	CA-C	-6.02	1.43	1.52
3	A	883	VAL	CB-CG2	-6.02	1.32	1.52
4	B	210	ARG	CA-C	-6.01	1.45	1.52
3	A	862	ILE	CB-CG1	-6.01	1.41	1.53
3	A	1069	SER	CA-CB	-6.01	1.43	1.53
3	A	1085	ALA	CA-C	-6.01	1.28	1.52
8	G	193	ARG	CA-C	-6.01	1.46	1.53
3	A	705	SER	CA-CB	-6.00	1.44	1.53
6	E	19	PRO	CA-C	-6.00	1.43	1.52
3	A	399	LYS	C-N	-6.00	1.24	1.34
4	B	13	LEU	CG-CD1	-6.00	1.32	1.52
6	E	542	ILE	CA-C	-5.99	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	937	GLN	CA-C	-5.98	1.44	1.52
3	A	873	TYR	CD1-CE1	-5.98	1.20	1.38
7	F	30	ARG	CA-C	-5.97	1.44	1.52
4	B	558	GLY	C-N	-5.95	1.25	1.33
6	E	237	THR	CA-C	-5.94	1.47	1.53
4	B	43	TYR	CA-CB	-5.93	1.44	1.53
3	A	147	VAL	C-N	-5.93	1.28	1.33
4	B	24	TYR	CD1-CE1	-5.93	1.20	1.38
6	E	57	LEU	CA-C	-5.93	1.44	1.52
8	G	219	THR	CA-C	-5.92	1.45	1.52
4	B	12	GLN	CG-CD	-5.92	1.37	1.52
4	B	296	GLN	CB-CG	-5.92	1.34	1.52
3	A	722	TYR	CA-CB	-5.91	1.39	1.54
3	A	1041	LYS	CA-CB	-5.90	1.45	1.53
3	A	543	PRO	N-CD	5.90	1.56	1.47
5	D	81	ARG	CA-CB	-5.89	1.45	1.52
3	A	698	TYR	CD1-CE1	-5.89	1.21	1.38
6	E	480	SER	CA-C	-5.89	1.45	1.53
3	A	906	ALA	CA-C	-5.89	1.44	1.52
4	B	1131	SER	CA-CB	-5.88	1.43	1.53
3	A	698	TYR	CE2-CZ	-5.88	1.24	1.38
7	F	13	GLN	CD-NE2	-5.87	1.21	1.33
4	B	1190	TYR	CB-CG	-5.87	1.38	1.51
3	A	328	VAL	CB-CG1	-5.87	1.33	1.52
3	A	1039	THR	CA-CB	-5.87	1.43	1.53
3	A	1084	ILE	CG1-CD1	-5.87	1.28	1.51
3	A	421	ASP	C-N	-5.86	1.26	1.33
3	A	885	ASN	CG-ND2	-5.86	1.21	1.33
3	A	1041	LYS	CA-C	-5.86	1.43	1.52
3	A	325	VAL	N-CA	-5.85	1.39	1.46
3	A	135	ARG	CB-CG	-5.85	1.34	1.52
4	B	1226	GLU	CA-C	-5.83	1.44	1.53
4	B	41	PHE	CD1-CE1	-5.83	1.21	1.38
5	C	81	ARG	CA-CB	-5.83	1.45	1.52
6	E	45	ILE	CA-CB	-5.82	1.46	1.54
3	A	865	ILE	CA-C	-5.81	1.45	1.52
6	E	292	ILE	CA-CB	-5.81	1.48	1.54
3	A	280	LYS	CA-C	-5.80	1.45	1.52
4	B	54	ASP	CB-CG	-5.79	1.37	1.52
3	A	905	TRP	CG-CD2	-5.79	1.33	1.43
3	A	400	ARG	CB-CG	-5.79	1.35	1.52
3	A	684	GLN	CB-CG	-5.79	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	40	GLY	CA-C	-5.79	1.45	1.52
5	C	38	ASN	CA-CB	-5.79	1.44	1.53
3	A	574	VAL	CB-CG2	-5.78	1.33	1.52
3	A	932	VAL	CA-C	-5.77	1.46	1.52
3	A	1053	ASN	CA-CB	-5.76	1.43	1.53
6	E	431	ASN	CA-CB	-5.76	1.43	1.53
6	E	116	TRP	CA-C	-5.75	1.43	1.52
6	E	302	GLU	CA-CB	-5.74	1.44	1.53
4	B	211	GLU	CB-CG	-5.74	1.35	1.52
7	F	34	GLN	CB-CG	-5.73	1.35	1.52
6	E	456	LEU	CG-CD1	-5.72	1.33	1.52
3	A	868	ILE	CA-C	-5.72	1.45	1.52
3	A	41	PHE	CB-CG	-5.72	1.37	1.50
3	A	502	TYR	C-N	-5.71	1.25	1.33
5	C	174	ARG	CG-CD	-5.71	1.35	1.52
7	F	32	THR	CA-CB	-5.71	1.44	1.53
3	A	682	LEU	CA-CB	-5.70	1.45	1.53
3	A	148	TYR	CB-CG	-5.70	1.39	1.51
3	A	399	LYS	CA-CB	-5.67	1.44	1.53
6	E	40	THR	CA-CB	-5.67	1.43	1.53
6	E	65	PRO	CA-C	-5.67	1.45	1.52
6	E	118	LEU	CA-CB	-5.67	1.43	1.53
3	A	1015	GLN	CB-CG	-5.66	1.35	1.52
4	B	54	ASP	CA-CB	-5.66	1.43	1.53
3	A	130	ILE	N-CA	-5.66	1.39	1.46
3	A	40	TRP	CA-C	-5.65	1.45	1.52
3	A	1033	THR	CA-C	-5.65	1.45	1.52
4	B	126	ALA	CA-C	-5.65	1.47	1.53
7	F	34	GLN	CA-C	-5.65	1.45	1.52
3	A	704	ILE	CB-CG1	-5.64	1.42	1.53
6	E	314	ILE	CA-CB	-5.64	1.47	1.54
4	B	1245	ILE	CB-CG1	-5.64	1.42	1.53
3	A	673	SER	CA-C	-5.64	1.45	1.52
3	A	983	VAL	CB-CG1	-5.64	1.33	1.52
3	A	149	TYR	CD1-CE1	-5.64	1.21	1.38
3	A	682	LEU	CA-C	-5.64	1.47	1.53
3	A	1040	VAL	CA-C	-5.64	1.45	1.52
3	A	258	ASP	CA-CB	-5.63	1.44	1.53
4	B	16	LEU	CA-C	-5.62	1.45	1.52
3	A	1052	LEU	CA-C	-5.62	1.44	1.52
4	B	19	TRP	CE3-CZ3	-5.61	1.21	1.38
6	E	51	LYS	CA-CB	-5.61	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	301	PHE	CD1-CE1	-5.61	1.21	1.38
9	T	156	ASP	CA-C	-5.61	1.44	1.52
3	A	450	HIS	CA-CB	-5.60	1.44	1.53
6	E	249	ILE	CA-CB	-5.59	1.47	1.54
3	A	905	TRP	CE3-CZ3	-5.58	1.22	1.38
3	A	34	GLN	CB-CG	-5.58	1.35	1.52
8	G	301	PHE	CD2-CE2	-5.58	1.22	1.38
3	A	1017	PHE	CA-CB	-5.57	1.44	1.53
3	A	905	TRP	CE2-CZ2	-5.57	1.28	1.39
5	C	40	LEU	N-CA	-5.57	1.39	1.46
3	A	734	GLU	CB-CG	-5.56	1.35	1.52
5	D	135	LYS	CD-CE	-5.56	1.35	1.52
3	A	873	TYR	CE1-CZ	-5.56	1.25	1.38
4	B	17	ILE	CA-C	-5.56	1.45	1.52
5	C	135	LYS	CD-CE	-5.56	1.35	1.52
3	A	931	ILE	CB-CG2	-5.56	1.34	1.52
3	A	861	ILE	CB-CG2	-5.56	1.34	1.52
4	B	295	CYS	CB-SG	-5.56	1.62	1.81
7	F	28	ARG	CG-CD	-5.55	1.35	1.52
4	B	43	TYR	CG-CD2	-5.55	1.27	1.39
5	D	65	PHE	CB-CG	-5.55	1.37	1.50
3	A	1067	PRO	CA-C	-5.54	1.45	1.52
3	A	1039	THR	CA-C	-5.54	1.45	1.52
4	B	208	ILE	CA-C	-5.54	1.46	1.52
3	A	1039	THR	C-N	-5.53	1.26	1.33
4	B	297	HIS	C-N	-5.53	1.26	1.33
3	A	885	ASN	CA-C	-5.52	1.45	1.52
4	B	287	THR	CA-CB	-5.52	1.44	1.53
8	G	88	GLU	CG-CD	-5.51	1.38	1.52
3	A	397	THR	C-N	-5.51	1.25	1.33
6	E	93	VAL	CB-CG1	-5.51	1.34	1.52
6	E	118	LEU	CG-CD2	-5.51	1.34	1.52
5	C	65	PHE	CB-CG	-5.51	1.38	1.50
4	B	729	GLU	CB-CG	-5.51	1.35	1.52
8	G	223	ALA	CA-C	-5.51	1.45	1.52
7	F	58	VAL	C-N	-5.50	1.26	1.33
3	A	873	TYR	CB-CG	-5.50	1.39	1.51
6	E	459	LEU	CG-CD2	-5.49	1.34	1.52
8	G	301	PHE	CG-CD2	-5.49	1.27	1.38
3	A	883	VAL	CA-CB	-5.47	1.47	1.54
4	B	1241	ILE	CG1-CD1	-5.47	1.30	1.51
3	A	865	ILE	N-CA	-5.47	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1036	GLU	CA-C	-5.47	1.45	1.52
6	E	430	LEU	CG-CD1	-5.47	1.34	1.52
3	A	931	ILE	CA-C	-5.46	1.46	1.52
6	E	390	ASN	CB-CG	-5.46	1.38	1.52
3	A	990	ILE	CG1-CD1	-5.46	1.30	1.51
3	A	95	MET	CB-CG	-5.46	1.36	1.52
3	A	702	ILE	CB-CG2	-5.45	1.34	1.52
3	A	933	HIS	N-CA	-5.45	1.39	1.46
6	E	42	PRO	CA-C	-5.45	1.46	1.52
4	B	51	ILE	CG1-CD1	-5.44	1.30	1.51
6	E	412	ASP	C-N	-5.44	1.21	1.33
3	A	899	PHE	CA-CB	-5.44	1.45	1.53
4	B	60	PRO	C-N	-5.43	1.26	1.34
5	C	39	ALA	C-N	-5.43	1.27	1.33
3	A	1037	LEU	CA-C	-5.43	1.45	1.52
3	A	691	MET	CB-CG	-5.42	1.36	1.52
6	E	290	GLN	CA-C	-5.42	1.45	1.52
6	E	258	PRO	CA-C	-5.42	1.44	1.52
8	G	222	ILE	CA-C	-5.42	1.45	1.52
4	B	1150	ASN	CB-CG	-5.41	1.38	1.52
3	A	47	ILE	CB-CG2	-5.40	1.34	1.52
4	B	1150	ASN	N-CA	-5.40	1.41	1.46
6	E	118	LEU	N-CA	-5.40	1.39	1.46
8	G	195	ALA	CA-C	-5.40	1.45	1.52
4	B	1246	PRO	C-O	-5.40	1.17	1.23
4	B	41	PHE	CD2-CE2	-5.39	1.22	1.38
6	E	11	TYR	CD1-CE1	-5.38	1.22	1.38
3	A	933	HIS	CA-CB	-5.38	1.44	1.53
4	B	24	TYR	CD2-CE2	-5.38	1.22	1.38
3	A	817	VAL	CB-CG1	-5.38	1.34	1.52
3	A	377	PHE	CA-C	-5.37	1.45	1.52
3	A	633	GLN	CB-CG	-5.37	1.36	1.52
5	C	40	LEU	CA-CB	-5.37	1.45	1.53
3	A	829	PRO	N-CA	-5.37	1.36	1.46
4	B	45	THR	CA-C	-5.37	1.45	1.52
3	A	861	ILE	CA-CB	-5.36	1.47	1.55
6	E	257	ARG	CA-C	-5.36	1.46	1.52
3	A	702	ILE	CA-CB	-5.35	1.48	1.54
3	A	509	PRO	C-N	-5.35	1.30	1.33
3	A	901	CYS	CB-SG	-5.35	1.63	1.81
8	G	87	GLN	C-O	-5.35	1.17	1.24
3	A	421	ASP	CB-CG	-5.35	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	674	SER	N-CA	-5.35	1.37	1.47
3	A	1035	GLN	CA-C	-5.34	1.45	1.52
6	E	158	TYR	CB-CG	-5.34	1.40	1.51
5	C	43	VAL	C-N	-5.34	1.27	1.33
6	E	459	LEU	CA-C	-5.33	1.46	1.52
4	B	1241	ILE	CA-CB	-5.33	1.50	1.55
3	A	135	ARG	CA-CB	-5.33	1.44	1.53
3	A	573	LEU	CA-C	-5.33	1.47	1.53
3	A	897	GLN	C-N	-5.33	1.26	1.33
3	A	564	VAL	CA-CB	-5.32	1.47	1.54
3	A	508	VAL	C-N	-5.31	1.26	1.33
6	E	287	ALA	CA-C	-5.31	1.45	1.52
3	A	148	TYR	CA-CB	-5.31	1.46	1.53
3	A	526	TYR	CD2-CE2	-5.31	1.22	1.38
3	A	27	LEU	CG-CD1	-5.30	1.35	1.52
6	E	429	MET	CG-SD	-5.30	1.67	1.80
3	A	383	LEU	CA-C	-5.30	1.45	1.52
4	B	183	LEU	C-N	-5.30	1.27	1.33
4	B	283	ARG	CB-CG	-5.30	1.36	1.52
6	E	117	TYR	CD1-CE1	-5.30	1.22	1.38
3	A	491	ALA	CA-C	-5.30	1.47	1.52
6	E	278	ARG	C-N	-5.29	1.27	1.33
4	B	53	VAL	N-CA	-5.29	1.39	1.46
3	A	161	TYR	CB-CG	-5.28	1.40	1.51
3	A	404	ALA	CA-C	-5.28	1.47	1.52
4	B	296	GLN	CG-CD	-5.28	1.38	1.52
3	A	567	LEU	CG-CD1	-5.27	1.35	1.52
5	D	141	ARG	CB-CG	-5.27	1.36	1.52
3	A	572	PRO	N-CA	-5.26	1.40	1.47
7	F	58	VAL	N-CA	-5.26	1.40	1.46
3	A	685	ASN	CA-C	-5.26	1.46	1.52
8	G	211	THR	CA-C	-5.26	1.45	1.52
3	A	880	VAL	CA-C	-5.25	1.46	1.52
3	A	680	LEU	CA-C	-5.24	1.46	1.53
3	A	698	TYR	CG-CD2	-5.24	1.28	1.39
6	E	543	MET	CA-C	-5.24	1.46	1.52
4	B	1132	GLN	CA-CB	-5.24	1.45	1.52
8	G	87	GLN	C-N	-5.24	1.26	1.33
5	C	141	ARG	CB-CG	-5.23	1.36	1.52
3	A	130	ILE	CA-C	-5.23	1.46	1.52
4	B	1132	GLN	CB-CG	-5.22	1.36	1.52
4	B	19	TRP	CD2-CE2	-5.22	1.32	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1015	GLN	CA-C	-5.22	1.46	1.52
6	E	116	TRP	CD2-CE2	-5.22	1.32	1.41
6	E	430	LEU	CA-CB	-5.21	1.44	1.53
3	A	385	GLN	CG-CD	-5.20	1.39	1.52
9	T	197	LYS	C-N	5.20	1.41	1.33
3	A	973	THR	CA-C	-5.20	1.46	1.52
8	G	218	ILE	CA-C	-5.20	1.46	1.52
4	B	45	THR	CA-CB	-5.19	1.45	1.53
8	G	214	ILE	CA-C	-5.19	1.46	1.52
6	E	45	ILE	CG1-CD1	-5.18	1.31	1.51
3	A	288	THR	C-N	-5.18	1.26	1.33
3	A	581	GLN	CB-CG	-5.18	1.36	1.52
5	C	178	TYR	CA-C	-5.17	1.46	1.53
8	G	111	LEU	CA-C	-5.17	1.46	1.52
3	A	376	GLU	C-N	-5.17	1.26	1.33
3	A	413	GLU	CA-CB	-5.16	1.44	1.53
4	B	163	PHE	CA-C	-5.16	1.46	1.52
4	B	971	PRO	N-CD	5.16	1.54	1.47
4	B	1147	GLN	CB-CG	-5.16	1.36	1.52
5	D	216	ILE	CA-CB	-5.16	1.48	1.54
6	E	428	VAL	CA-CB	-5.16	1.46	1.55
4	B	180	ARG	CG-CD	-5.15	1.36	1.52
3	A	698	TYR	CE1-CZ	-5.15	1.25	1.38
3	A	742	ASN	CA-CB	-5.15	1.46	1.53
6	E	302	GLU	CB-CG	-5.14	1.37	1.52
10	Y	211	THR	CA-CB	-5.13	1.45	1.53
3	A	175	PHE	CA-CB	-5.13	1.44	1.53
4	B	202	ASP	N-CA	-5.13	1.39	1.46
4	B	43	TYR	CG-CD1	-5.13	1.28	1.39
3	A	524	VAL	CA-CB	-5.12	1.47	1.54
4	B	9	ASP	CA-CB	-5.12	1.47	1.53
4	B	97	THR	CA-C	-5.12	1.46	1.52
5	C	122	ASP	C-N	-5.12	1.21	1.33
3	A	957	ILE	CB-CG2	-5.12	1.35	1.52
3	A	281	LEU	CA-C	-5.12	1.43	1.52
7	F	62	ILE	CA-C	-5.12	1.46	1.52
8	G	115	ARG	CG-CD	-5.12	1.37	1.52
6	E	460	VAL	CA-CB	-5.12	1.48	1.53
3	A	328	VAL	CA-CB	-5.11	1.47	1.54
4	B	12	GLN	CB-CG	-5.11	1.37	1.52
4	B	125	MET	C-N	-5.11	1.27	1.33
4	B	1155	ASP	CB-CG	-5.11	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	865	ILE	CG1-CD1	-5.11	1.31	1.51
4	B	1245	ILE	CA-C	-5.11	1.47	1.52
3	A	30	LEU	CG-CD2	-5.11	1.35	1.52
3	A	740	ILE	C-N	-5.10	1.22	1.33
3	A	882	ILE	CB-CG2	-5.10	1.35	1.52
6	E	279	VAL	N-CA	-5.10	1.40	1.46
7	F	59	LEU	N-CA	-5.09	1.40	1.46
3	A	141	ILE	CA-C	-5.09	1.46	1.52
7	F	30	ARG	CB-CG	-5.09	1.37	1.52
3	A	1015	GLN	C-N	-5.08	1.27	1.33
3	A	334	ASN	CB-CG	-5.08	1.39	1.52
3	A	698	TYR	CA-C	-5.08	1.46	1.52
3	A	969	ASP	CA-CB	-5.08	1.44	1.53
5	D	122	ASP	C-N	-5.08	1.22	1.33
6	E	45	ILE	CB-CG2	-5.08	1.35	1.52
6	E	458	PRO	CA-C	-5.08	1.45	1.52
3	A	868	ILE	CA-CB	-5.07	1.47	1.54
4	B	13	LEU	CA-C	-5.07	1.46	1.52
8	G	220	ARG	CA-C	-5.07	1.45	1.52
3	A	405	LEU	N-CA	-5.06	1.39	1.46
3	A	900	GLU	CA-C	-5.06	1.46	1.52
6	E	57	LEU	CA-CB	-5.06	1.44	1.53
6	E	502	THR	CB-CG2	-5.06	1.35	1.52
3	A	968	PHE	C-N	-5.06	1.26	1.33
6	E	276	TYR	CA-CB	-5.06	1.45	1.53
6	E	456	LEU	CA-CB	-5.05	1.45	1.53
6	E	158	TYR	CD2-CE2	-5.05	1.23	1.38
6	E	50	LEU	N-CA	-5.05	1.39	1.46
7	F	63	ILE	N-CA	-5.05	1.40	1.46
3	A	278	ASN	CB-CG	-5.05	1.39	1.52
3	A	491	ALA	C-N	-5.05	1.22	1.33
10	X	101	LEU	N-CA	5.05	1.52	1.46
6	E	116	TRP	CE2-CZ2	-5.04	1.29	1.39
3	A	722	TYR	CA-C	-5.04	1.47	1.52
8	G	115	ARG	CB-CG	-5.04	1.37	1.52
3	A	297	ILE	CA-C	-5.04	1.46	1.52
3	A	957	ILE	CB-CG1	-5.04	1.43	1.53
5	C	23	PHE	CD1-CE1	-5.04	1.23	1.38
5	D	216	ILE	C-N	-5.04	1.26	1.33
3	A	573	LEU	CB-CG	-5.04	1.43	1.53
7	F	62	ILE	CG1-CD1	-5.04	1.32	1.51
6	E	276	TYR	CD2-CE2	-5.03	1.23	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	684	GLN	C-N	-5.03	1.26	1.33
4	B	92	GLN	CB-CG	-5.03	1.37	1.52
7	F	58	VAL	CA-C	-5.03	1.46	1.52
6	E	249	ILE	CB-CG1	-5.03	1.43	1.53
3	A	37	SER	CA-CB	-5.03	1.45	1.53
4	B	1225	ILE	C-N	-5.03	1.27	1.33
3	A	879	PRO	CA-C	-5.02	1.45	1.52
4	B	147	MET	N-CA	5.02	1.49	1.46
3	A	377	PHE	C-N	-5.02	1.25	1.33
4	B	1149	THR	CA-CB	-5.02	1.44	1.53
5	D	23	PHE	CD1-CE1	-5.02	1.23	1.38
7	F	58	VAL	CB-CG2	-5.02	1.35	1.52
3	A	690	TYR	CE2-CZ	-5.01	1.26	1.38
3	A	699	GLU	CD-OE2	-5.01	1.15	1.25
6	E	275	LEU	CG-CD1	-5.01	1.36	1.52
3	A	901	CYS	CA-CB	-5.00	1.45	1.53

All (1199) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	T	157	MET	CA-CB-CG	19.14	152.37	114.10
8	G	309	PRO	CB-CA-C	-18.61	87.93	111.56
8	G	310	GLU	N-CA-CB	17.41	139.90	110.49
1	1	13	DG	C2'-C3'-O3'	15.18	134.26	111.50
9	V	263	ASN	N-CA-C	-14.72	96.28	113.21
3	A	273	GLY	N-CA-C	-14.67	95.49	112.50
10	X	45	TYR	N-CA-C	-14.49	94.94	111.03
8	G	223	ALA	CA-C-N	-14.49	99.42	120.28
8	G	223	ALA	C-N-CA	-14.49	99.42	120.28
8	G	309	PRO	N-CA-C	-14.14	88.81	111.15
4	B	40	GLY	N-CA-C	-13.77	96.53	112.50
6	E	149	SER	C-N-CD	-13.66	69.00	125.00
4	B	1190	TYR	CA-C-N	-13.57	106.78	122.52
4	B	1190	TYR	C-N-CA	-13.57	106.78	122.52
9	T	50	ARG	N-CA-C	-13.54	95.86	112.38
9	V	261	LEU	N-CA-C	13.52	129.90	113.41
6	E	150	PRO	CA-N-CD	12.67	129.74	112.00
3	A	383	LEU	CA-CB-CG	-12.66	71.98	116.30
3	A	673	SER	CA-C-N	-12.66	100.76	122.92
3	A	673	SER	C-N-CA	-12.66	100.76	122.92
4	B	418	VAL	N-CA-C	-12.61	96.75	112.76
9	S	14	GLU	O-C-N	-12.37	106.88	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	117	TYR	CA-C-N	-12.35	97.95	121.54
6	E	117	TYR	C-N-CA	-12.35	97.95	121.54
5	C	184	ARG	CG-CD-NE	12.27	138.98	112.00
5	C	80	MET	CA-C-N	-12.26	104.06	122.21
5	C	80	MET	C-N-CA	-12.26	104.06	122.21
6	E	275	LEU	N-CA-C	-12.20	97.96	111.14
4	B	297	HIS	CA-C-N	-12.17	102.83	122.66
4	B	297	HIS	C-N-CA	-12.17	102.83	122.66
4	B	138	ARG	N-CA-C	-12.06	97.83	110.97
4	B	211	GLU	N-CA-C	12.02	128.50	108.90
6	E	118	LEU	CA-CB-CG	-11.77	75.12	116.30
6	E	57	LEU	CA-CB-CG	-11.75	75.18	116.30
9	U	153	THR	N-CA-C	-11.73	91.34	107.88
9	V	208	GLU	N-CA-C	-11.71	94.42	110.35
9	T	196	PHE	CA-C-N	-11.68	104.78	121.72
9	T	196	PHE	C-N-CA	-11.68	104.78	121.72
9	T	155	ARG	O-C-N	11.63	138.05	122.59
3	A	280	LYS	CA-C-N	-11.58	99.16	122.31
3	A	280	LYS	C-N-CA	-11.58	99.16	122.31
6	E	459	LEU	CA-C-N	-11.48	103.85	122.33
6	E	459	LEU	C-N-CA	-11.48	103.85	122.33
3	A	990	ILE	CA-C-N	-11.47	100.48	121.69
3	A	990	ILE	C-N-CA	-11.47	100.48	121.69
9	S	241	LEU	CA-C-N	11.44	136.93	122.64
9	S	241	LEU	C-N-CA	11.44	136.93	122.64
9	S	17	SER	N-CA-C	-11.33	100.12	113.38
5	C	163	PHE	N-CA-C	11.30	128.21	110.70
9	U	84	LEU	O-C-N	-11.26	108.41	122.26
3	A	991	HIS	CA-CB-CG	-11.20	102.60	113.80
6	E	150	PRO	CB-CA-C	11.20	130.04	111.56
9	V	207	GLN	N-CA-C	-11.14	99.11	111.14
3	A	884	LEU	CA-C-N	-11.12	94.66	121.80
3	A	884	LEU	C-N-CA	-11.12	94.66	121.80
3	A	607	ARG	CB-CG-CD	-10.90	86.22	111.30
4	B	862	GLY	N-CA-C	10.81	138.81	113.18
3	A	681	ALA	CA-C-N	-10.74	105.77	122.42
3	A	681	ALA	C-N-CA	-10.74	105.77	122.42
9	U	139	LEU	N-CA-C	-10.63	88.15	110.80
5	C	163	PHE	CA-C-N	-10.62	105.91	122.59
5	C	163	PHE	C-N-CA	-10.62	105.91	122.59
9	T	209	LYS	N-CA-C	-10.60	99.87	113.12
4	B	1018	LEU	CA-CB-CG	-10.54	79.42	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	F	29	TYR	CA-CB-CG	10.53	132.85	113.90
9	V	210	PHE	N-CA-C	-10.52	100.99	114.04
9	T	156	ASP	CB-CA-C	-10.52	92.79	110.56
8	G	346	GLY	N-CA-C	-10.47	100.05	112.83
6	E	500	PRO	N-CA-C	-10.34	100.40	113.84
9	S	15	THR	CA-C-O	-10.33	110.17	121.23
9	S	84	LEU	O-C-N	-10.29	108.90	122.59
3	A	31	ILE	CA-C-N	-10.28	103.25	122.27
3	A	31	ILE	C-N-CA	-10.28	103.25	122.27
4	B	876	ILE	N-CA-C	10.28	123.24	112.96
9	U	175	HIS	C-N-CD	-10.26	82.93	125.00
8	G	295	ASP	N-CA-C	-10.23	89.01	110.80
3	A	907	GLY	N-CA-C	-10.21	100.28	112.64
9	U	153	THR	CA-C-O	-10.21	110.12	121.25
4	B	815	ASP	N-CA-C	10.21	124.89	110.50
3	A	982	LEU	CA-CB-CG	-10.01	81.27	116.30
4	B	361	ARG	N-CA-C	10.00	132.10	110.80
6	E	480	SER	CA-C-N	-9.93	107.13	120.63
6	E	480	SER	C-N-CA	-9.93	107.13	120.63
3	A	680	LEU	CA-CB-CG	-9.92	81.58	116.30
3	A	884	LEU	CA-CB-CG	-9.89	81.69	116.30
4	B	270	LYS	N-CA-C	-9.86	100.53	111.28
4	B	86	THR	N-CA-C	9.84	125.51	109.96
9	U	176	PRO	CA-N-CD	9.83	125.76	112.00
9	U	202	MET	N-CA-C	-9.83	100.84	113.12
4	B	208	ILE	CA-C-N	-9.80	107.00	121.71
4	B	208	ILE	C-N-CA	-9.80	107.00	121.71
4	B	670	GLY	N-CA-C	9.79	124.89	110.60
9	T	198	ASP	N-CA-C	-9.79	89.95	110.80
8	G	296	SER	N-CA-C	9.78	128.63	114.16
3	A	147	VAL	CA-C-N	-9.77	109.27	122.16
3	A	147	VAL	C-N-CA	-9.77	109.27	122.16
4	B	360	PRO	N-CA-C	9.74	125.50	110.80
4	B	13	LEU	CA-CB-CG	-9.68	82.43	116.30
9	S	15	THR	N-CA-C	9.66	123.57	108.79
3	A	1036	GLU	N-CA-C	-9.60	99.60	111.11
4	B	288	CYS	N-CA-C	-9.59	96.08	110.28
9	S	184	PRO	CA-C-N	-9.59	107.00	122.26
9	S	184	PRO	C-N-CA	-9.59	107.00	122.26
3	A	35	ARG	CA-C-N	-9.55	104.24	120.58
3	A	35	ARG	C-N-CA	-9.55	104.24	120.58
5	C	44	LEU	CA-C-N	-9.49	106.89	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	44	LEU	C-N-CA	-9.49	106.89	122.65
8	G	337	LEU	CB-CG-CD2	-9.42	82.44	110.70
9	T	156	ASP	O-C-N	9.38	133.59	122.34
4	B	797	LEU	CA-CB-CG	9.36	149.06	116.30
4	B	170	THR	N-CA-CB	-9.36	94.67	110.49
4	B	1129	TYR	CA-C-N	-9.36	106.77	122.11
4	B	1129	TYR	C-N-CA	-9.36	106.77	122.11
3	A	173	LEU	CA-CB-CG	-9.35	83.58	116.30
4	B	558	GLY	N-CA-C	-9.35	91.03	113.18
3	A	579	GLU	N-CA-C	-9.31	104.00	114.62
4	B	184	VAL	CA-C-N	-9.24	104.97	120.68
4	B	184	VAL	C-N-CA	-9.24	104.97	120.68
1	1	13	DG	C4'-C3'-O3'	9.23	123.84	110.00
4	B	119	LEU	CA-CB-CG	-9.22	84.03	116.30
6	E	277	ARG	N-CA-C	-9.21	101.21	111.07
4	B	88	VAL	N-CA-C	-9.15	101.13	112.76
3	A	968	PHE	CA-C-N	-9.13	104.11	121.54
3	A	968	PHE	C-N-CA	-9.13	104.11	121.54
3	A	691	MET	CB-CG-SD	-9.10	85.39	112.70
4	B	285	PRO	N-CA-C	9.05	126.10	113.53
3	A	749	ARG	CB-CG-CD	-9.03	90.53	111.30
4	B	1159	ASP	N-CA-C	-9.01	102.06	112.87
9	T	157	MET	CB-CG-SD	8.99	139.68	112.70
9	T	234	ARG	CA-C-N	-8.96	109.25	121.71
9	T	234	ARG	C-N-CA	-8.96	109.25	121.71
9	U	296	LEU	N-CA-C	-8.94	97.63	110.24
4	B	44	ALA	N-CA-C	-8.90	101.58	111.28
3	A	1040	VAL	CA-C-N	-8.88	106.35	123.13
3	A	1040	VAL	C-N-CA	-8.88	106.35	123.13
3	A	257	LEU	CA-CB-CG	-8.87	85.26	116.30
5	C	44	LEU	CA-CB-CG	-8.84	85.36	116.30
9	T	210	PHE	N-CA-C	-8.83	101.62	111.07
3	A	54	SER	N-CA-CB	8.81	126.06	110.37
3	A	899	PHE	N-CA-C	-8.81	101.64	111.07
8	G	83	ARG	CA-C-N	-8.78	109.02	120.44
8	G	83	ARG	C-N-CA	-8.78	109.02	120.44
3	A	271	ARG	CG-CD-NE	-8.75	92.74	112.00
4	B	135	SER	N-CA-C	-8.74	101.72	111.07
4	B	280	VAL	N-CA-C	8.74	118.36	107.70
3	A	572	PRO	CA-C-N	-8.72	107.81	120.89
3	A	572	PRO	C-N-CA	-8.72	107.81	120.89
4	B	248	VAL	O-C-N	8.65	132.26	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	264	ILE	CA-C-N	-8.63	107.30	123.27
4	B	264	ILE	C-N-CA	-8.63	107.30	123.27
8	G	227	ARG	N-CA-C	-8.62	92.43	110.80
3	A	148	TYR	CA-CB-CG	-8.62	98.38	113.90
6	E	35	VAL	CA-C-N	-8.61	111.38	121.71
6	E	35	VAL	C-N-CA	-8.61	111.38	121.71
3	A	769	LEU	CA-CB-CG	-8.60	86.20	116.30
5	C	20	TYR	CA-C-N	-8.60	109.36	123.04
5	C	20	TYR	C-N-CA	-8.60	109.36	123.04
4	B	617	ALA	CA-C-N	8.59	139.17	123.27
4	B	617	ALA	C-N-CA	8.59	139.17	123.27
8	G	80	ASP	N-CA-C	8.59	122.90	108.13
5	D	20	TYR	CA-C-N	-8.57	109.41	123.04
5	D	20	TYR	C-N-CA	-8.57	109.41	123.04
5	C	46	SER	CA-C-N	-8.57	108.37	121.40
5	C	46	SER	C-N-CA	-8.57	108.37	121.40
6	E	331	LEU	CA-CB-CG	-8.54	86.40	116.30
9	S	14	GLU	CA-C-N	8.54	137.25	121.62
9	S	14	GLU	C-N-CA	8.54	137.25	121.62
6	E	261	GLN	N-CA-C	8.47	124.30	107.62
3	A	703	LEU	CA-C-N	-8.45	111.44	122.51
3	A	703	LEU	C-N-CA	-8.45	111.44	122.51
6	E	457	HIS	CA-CB-CG	-8.45	105.35	113.80
1	1	60	DT	P-O3'-C3'	-8.44	107.54	120.20
2	2	103	DG	P-O3'-C3'	-8.44	107.54	120.20
6	E	459	LEU	CA-CB-CG	-8.43	86.79	116.30
4	B	376	ALA	N-CA-C	8.43	121.33	108.52
5	C	81	ARG	CA-CB-CG	-8.42	97.27	114.10
5	D	81	ARG	CA-CB-CG	-8.40	97.29	114.10
9	V	73	GLU	CA-C-N	-8.40	105.50	122.31
9	V	73	GLU	C-N-CA	-8.40	105.50	122.31
9	S	73	GLU	CA-C-N	-8.40	105.51	122.31
9	S	73	GLU	C-N-CA	-8.40	105.51	122.31
4	B	1225	ILE	N-CA-CB	8.39	127.36	110.82
4	B	203	VAL	N-CA-C	-8.33	105.12	112.12
3	A	1063	ARG	N-CA-C	-8.30	91.46	109.81
4	B	41	PHE	CA-C-N	-8.28	107.35	120.60
4	B	41	PHE	C-N-CA	-8.28	107.35	120.60
4	B	1227	GLY	CA-C-N	-8.27	108.78	122.17
4	B	1227	GLY	C-N-CA	-8.27	108.78	122.17
3	A	1069	SER	CA-CB-OG	-8.26	94.59	111.10
3	A	865	ILE	CA-CB-CG1	-8.24	96.39	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	376	GLU	CA-CB-CG	-8.24	97.63	114.10
6	E	38	GLU	CA-CB-CG	-8.21	97.68	114.10
3	A	704	ILE	CB-CG1-CD1	-8.20	96.57	113.80
9	U	140	VAL	N-CA-C	-8.20	97.83	109.63
6	E	249	ILE	C-N-CD	-8.18	91.45	125.00
6	E	302	GLU	CA-CB-CG	-8.17	97.77	114.10
4	B	383	GLY	CA-C-O	-8.15	115.73	122.33
3	A	404	ALA	CA-C-N	-8.15	109.14	120.71
3	A	404	ALA	C-N-CA	-8.15	109.14	120.71
8	G	270	ILE	N-CA-C	-8.14	101.81	110.36
5	C	45	LEU	CA-CB-CG	-8.14	87.81	116.30
9	T	156	ASP	CA-C-O	-8.12	110.05	119.56
4	B	211	GLU	CA-CB-CG	-8.11	97.89	114.10
8	G	86	LEU	CA-C-N	-8.10	109.69	122.73
8	G	86	LEU	C-N-CA	-8.10	109.69	122.73
9	V	188	LEU	N-CA-C	-8.10	102.65	114.39
9	V	203	GLN	CA-C-N	-8.08	107.23	120.72
9	V	203	GLN	C-N-CA	-8.08	107.23	120.72
3	A	53	PHE	N-CA-C	-8.08	100.18	111.81
4	B	61	SER	O-C-N	8.08	131.67	122.22
8	G	87	GLN	CA-C-O	8.08	129.39	119.78
9	T	156	ASP	N-CA-C	-8.08	102.99	112.92
3	A	573	LEU	CB-CG-CD1	-8.07	86.48	110.70
3	A	788	LEU	CA-CB-CG	-8.05	88.11	116.30
9	T	55	LYS	N-CA-CB	8.04	124.07	110.49
4	B	736	LEU	CA-CB-CG	8.03	144.41	116.30
3	A	410	LEU	CA-CB-CG	-8.03	88.21	116.30
3	A	705	SER	CA-CB-OG	-8.03	95.05	111.10
4	B	183	LEU	CA-CB-CG	-8.02	88.22	116.30
3	A	825	GLY	N-CA-C	-8.02	94.17	113.18
3	A	749	ARG	CA-CB-CG	8.01	130.11	114.10
4	B	250	HIS	CA-CB-CG	-7.99	105.81	113.80
3	A	383	LEU	CA-C-N	-7.97	106.76	120.95
3	A	383	LEU	C-N-CA	-7.97	106.76	120.95
3	A	419	VAL	CA-C-N	-7.97	107.13	120.68
3	A	419	VAL	C-N-CA	-7.97	107.13	120.68
4	B	12	GLN	CA-C-N	-7.97	110.13	120.65
4	B	12	GLN	C-N-CA	-7.97	110.13	120.65
3	A	719	ILE	CG1-CB-CG2	-7.95	86.84	110.70
3	A	395	GLU	CA-C-N	-7.92	106.41	121.54
3	A	395	GLU	C-N-CA	-7.92	106.41	121.54
9	T	297	VAL	N-CA-C	-7.92	101.75	113.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	241	LYS	N-CA-C	-7.91	105.60	114.62
6	E	51	LYS	CA-CB-CG	-7.91	98.29	114.10
6	E	63	PHE	CA-C-O	-7.91	111.47	120.24
3	A	862	ILE	CB-CA-C	-7.90	98.79	110.33
9	V	294	TRP	N-CA-C	-7.88	102.64	111.07
4	B	921	LEU	CA-C-N	-7.86	112.54	122.37
4	B	921	LEU	C-N-CA	-7.86	112.54	122.37
3	A	699	GLU	N-CA-C	-7.84	98.07	108.34
3	A	283	LEU	CA-CB-CG	-7.84	88.86	116.30
4	B	129	GLY	N-CA-C	-7.83	94.61	113.18
6	E	50	LEU	CA-CB-CG	-7.82	88.92	116.30
3	A	269	LEU	N-CA-C	-7.82	100.94	111.96
3	A	606	ILE	N-CA-C	-7.82	98.59	109.45
3	A	1038	LEU	CA-CB-CG	-7.80	88.98	116.30
6	E	150	PRO	N-CA-C	-7.80	96.39	112.47
6	E	291	GLU	CA-C-N	-7.79	109.11	121.34
6	E	291	GLU	C-N-CA	-7.79	109.11	121.34
3	A	37	SER	CA-CB-OG	-7.78	95.55	111.10
6	E	180	GLN	N-CA-C	-7.77	101.30	111.71
5	C	184	ARG	CD-NE-CZ	7.73	135.23	124.40
4	B	876	ILE	CA-C-O	-7.73	112.80	119.29
4	B	987	LEU	CB-CG-CD2	-7.72	87.54	110.70
3	A	1043	ASP	CA-C-N	-7.68	109.67	121.66
3	A	1043	ASP	C-N-CA	-7.68	109.67	121.66
5	D	72	ARG	N-CA-C	-7.68	103.96	112.72
4	B	1242	GLY	CA-C-N	-7.68	107.89	120.87
4	B	1242	GLY	C-N-CA	-7.68	107.89	120.87
5	C	72	ARG	N-CA-C	-7.68	103.96	112.72
4	B	16	LEU	CA-CB-CG	-7.67	89.46	116.30
4	B	390	ARG	CA-CB-CG	7.67	129.44	114.10
4	B	816	ILE	N-CA-C	-7.67	96.55	108.44
8	G	227	ARG	CA-C-N	-7.66	106.91	121.54
8	G	227	ARG	C-N-CA	-7.66	106.91	121.54
3	A	1039	THR	CA-C-N	-7.65	108.19	121.97
3	A	1039	THR	C-N-CA	-7.65	108.19	121.97
3	A	298	LEU	CA-CB-CG	-7.64	89.56	116.30
6	E	148	LEU	N-CA-C	7.64	122.67	113.12
4	B	98	TRP	CA-CB-CG	-7.60	99.16	113.60
4	B	125	MET	CA-C-N	-7.60	109.50	120.89
4	B	125	MET	C-N-CA	-7.60	109.50	120.89
3	A	402	LEU	CA-C-N	-7.59	108.12	122.08
3	A	402	LEU	C-N-CA	-7.59	108.12	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	F	40	LYS	CA-C-N	-7.59	107.78	120.68
7	F	40	LYS	C-N-CA	-7.59	107.78	120.68
3	A	578	LEU	CA-CB-CG	-7.58	89.76	116.30
6	E	86	CYS	CA-CB-SG	-7.58	96.97	114.40
8	G	310	GLU	N-CA-C	-7.57	94.67	110.80
3	A	425	SER	O-C-N	-7.57	114.22	122.09
3	A	930	ARG	N-CA-C	-7.57	102.18	111.33
4	B	1225	ILE	CB-CA-C	-7.56	95.44	111.32
6	E	172	ASP	N-CA-C	-7.55	104.68	114.04
3	A	702	ILE	CA-CB-CG1	-7.54	97.58	110.40
3	A	443	LEU	CA-CB-CG	-7.54	89.92	116.30
6	E	43	GLU	CA-CB-CG	-7.53	99.03	114.10
8	G	85	TYR	N-CA-CB	7.53	121.35	110.06
9	V	208	GLU	CA-C-O	-7.50	113.59	121.55
3	A	691	MET	CG-SD-CE	7.50	117.40	100.90
8	G	301	PHE	CA-CB-CG	-7.50	106.30	113.80
5	C	44	LEU	CB-CG-CD1	-7.49	88.22	110.70
1	1	26	DA	P-O3'-C3'	-7.49	108.96	120.20
3	A	861	ILE	CA-CB-CG1	-7.49	97.67	110.40
8	G	260	GLU	N-CA-C	-7.47	104.01	113.72
4	B	1148	MET	CA-C-N	-7.47	111.24	122.74
4	B	1148	MET	C-N-CA	-7.47	111.24	122.74
4	B	860	LYS	N-CA-C	-7.46	99.77	110.59
10	X	202	MET	N-CA-C	-7.46	105.07	112.97
8	G	301	PHE	N-CA-C	7.46	125.19	114.16
4	B	832	LEU	N-CA-C	-7.45	102.70	112.24
3	A	161	TYR	CA-CB-CG	-7.44	100.51	113.90
5	D	171	MET	N-CA-C	-7.44	93.37	109.81
4	B	223	ARG	N-CA-C	-7.42	93.40	109.81
3	A	277	LEU	CA-CB-CG	-7.39	90.42	116.30
5	D	110	SER	CA-CB-OG	-7.38	96.34	111.10
4	B	825	ALA	N-CA-C	-7.37	102.05	111.92
3	A	95	MET	CB-CG-SD	-7.36	90.62	112.70
5	C	110	SER	CA-CB-OG	-7.34	96.43	111.10
4	B	65	LEU	N-CA-C	-7.33	103.28	111.71
4	B	189	ARG	CA-C-N	-7.33	110.65	120.54
4	B	189	ARG	C-N-CA	-7.33	110.65	120.54
4	B	1179	ALA	N-CA-C	-7.33	103.38	111.36
9	T	197	LYS	O-C-N	7.32	132.03	123.02
3	A	524	VAL	CA-C-N	-7.32	107.56	121.54
3	A	524	VAL	C-N-CA	-7.32	107.56	121.54
9	T	284	ARG	N-CA-C	-7.32	103.52	114.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	287	THR	CA-C-N	-7.31	110.49	120.87
4	B	287	THR	C-N-CA	-7.31	110.49	120.87
6	E	150	PRO	N-CA-CB	-7.30	95.58	103.25
6	E	145	TYR	CB-CA-C	7.28	122.22	110.29
4	B	60	PRO	CA-C-N	-7.26	109.83	120.28
4	B	60	PRO	C-N-CA	-7.26	109.83	120.28
3	A	425	SER	CA-CB-OG	-7.25	96.60	111.10
3	A	295	GLY	N-CA-C	-7.23	103.74	112.49
6	E	461	CYS	CA-CB-SG	-7.23	97.78	114.40
3	A	885	ASN	N-CA-C	-7.22	93.86	109.81
3	A	407	PRO	N-CA-C	-7.21	97.61	112.47
6	E	314	ILE	CA-CB-CG1	-7.21	98.14	110.40
4	B	1130	GLN	CA-CB-CG	-7.20	99.70	114.10
9	V	184	PRO	CA-N-CD	7.20	122.08	112.00
8	G	312	GLN	N-CA-C	-7.20	103.47	112.90
2	2	98	DA	P-O3'-C3'	-7.15	109.47	120.20
3	A	862	ILE	CA-C-N	-7.15	107.88	121.54
3	A	862	ILE	C-N-CA	-7.15	107.88	121.54
3	A	905	TRP	CA-CB-CG	-7.15	100.02	113.60
4	B	98	TRP	CA-C-N	-7.14	109.46	120.31
4	B	98	TRP	C-N-CA	-7.14	109.46	120.31
6	E	89	CYS	CA-CB-SG	-7.12	98.02	114.40
4	B	383	GLY	N-CA-C	7.12	119.40	111.85
6	E	455	GLN	CA-C-N	-7.12	110.28	122.10
6	E	455	GLN	C-N-CA	-7.12	110.28	122.10
6	E	480	SER	N-CA-C	-7.12	101.35	110.53
3	A	378	PHE	N-CA-C	-7.11	96.76	110.56
9	T	195	VAL	O-C-N	-7.11	113.68	122.57
3	A	399	LYS	CA-C-N	-7.11	108.02	121.81
3	A	399	LYS	C-N-CA	-7.11	108.02	121.81
6	E	55	ASP	N-CA-C	-7.10	98.74	109.60
6	E	10	ASP	CA-C-N	-7.10	107.98	121.54
6	E	10	ASP	C-N-CA	-7.10	107.98	121.54
4	B	168	THR	CA-C-N	-7.09	109.85	121.34
4	B	168	THR	C-N-CA	-7.09	109.85	121.34
3	A	398	HIS	CA-C-N	-7.08	110.08	120.28
3	A	398	HIS	C-N-CA	-7.08	110.08	120.28
6	E	32	ASN	N-CA-C	-7.07	104.38	112.87
9	T	140	VAL	N-CA-C	-7.07	102.22	110.21
4	B	679	ASP	N-CA-CB	-7.07	106.11	114.17
4	B	1039	VAL	N-CA-C	-7.06	107.00	113.71
6	E	501	ALA	CA-C-N	-7.06	111.16	122.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	501	ALA	C-N-CA	-7.06	111.16	122.53
5	C	41	ARG	CB-CG-CD	-7.05	95.08	111.30
9	T	167	ILE	CB-CA-C	7.05	122.85	111.29
3	A	41	PHE	CA-CB-CG	-7.03	106.77	113.80
1	1	25	DT	P-O3'-C3'	-7.02	109.67	120.20
3	A	1053	ASN	CA-CB-CG	-7.01	105.59	112.60
7	F	30	ARG	N-CA-C	-7.01	102.85	111.33
4	B	938	GLY	CA-C-N	-7.00	113.17	123.11
4	B	938	GLY	C-N-CA	-7.00	113.17	123.11
5	C	184	ARG	CB-CG-CD	6.98	127.36	111.30
9	S	16	GLY	N-CA-C	6.98	129.72	113.18
4	B	209	ILE	CA-CB-CG1	-6.98	98.54	110.40
4	B	125	MET	CG-SD-CE	-6.98	85.55	100.90
9	S	15	THR	CA-C-N	6.98	135.09	121.41
9	S	15	THR	C-N-CA	6.98	135.09	121.41
5	D	81	ARG	CG-CD-NE	6.97	127.34	112.00
4	B	125	MET	N-CA-C	-6.97	102.25	111.24
3	A	679	GLU	CA-CB-CG	-6.96	100.17	114.10
6	E	139	ILE	N-CA-C	-6.96	103.52	110.62
8	G	84	LEU	CA-C-N	-6.96	110.85	120.38
8	G	84	LEU	C-N-CA	-6.96	110.85	120.38
2	2	64	DA	P-O3'-C3'	-6.96	109.77	120.20
3	A	593	ARG	CA-C-N	-6.94	113.15	121.90
3	A	593	ARG	C-N-CA	-6.94	113.15	121.90
4	B	1174	GLU	CA-C-N	-6.94	110.88	120.38
4	B	1174	GLU	C-N-CA	-6.94	110.88	120.38
9	T	157	MET	N-CA-C	6.94	125.58	110.80
10	X	62	GLU	CA-CB-CG	-6.94	100.23	114.10
4	B	150	PRO	CA-C-N	-6.93	108.98	123.20
4	B	150	PRO	C-N-CA	-6.93	108.98	123.20
4	B	411	TYR	N-CA-C	-6.93	105.37	114.31
10	Y	62	GLU	CA-CB-CG	-6.93	100.23	114.10
6	E	11	TYR	N-CA-C	-6.93	96.04	110.80
6	E	56	GLY	CA-C-N	-6.93	109.51	120.60
6	E	56	GLY	C-N-CA	-6.93	109.51	120.60
9	T	166	PRO	N-CA-C	-6.93	98.19	112.47
5	C	81	ARG	CG-CD-NE	6.93	127.24	112.00
10	X	58	TYR	CA-CB-CG	-6.92	101.45	113.90
4	B	390	ARG	CB-CG-CD	6.91	127.20	111.30
10	Y	58	TYR	CA-CB-CG	-6.90	101.47	113.90
4	B	1128	VAL	CA-C-N	-6.90	109.82	120.31
4	B	1128	VAL	C-N-CA	-6.90	109.82	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	557	TYR	CB-CA-C	6.89	121.80	110.78
5	C	163	PHE	CB-CA-C	-6.88	101.44	111.91
9	U	288	PRO	N-CA-C	6.88	119.09	110.70
3	A	615	PRO	N-CA-C	-6.87	103.52	113.75
5	C	48	LEU	CA-C-N	-6.87	111.11	120.87
5	C	48	LEU	C-N-CA	-6.87	111.11	120.87
6	E	288	ARG	CA-C-N	-6.86	107.02	121.64
6	E	288	ARG	C-N-CA	-6.86	107.02	121.64
4	B	1224	ALA	CA-C-N	-6.86	110.29	121.54
4	B	1224	ALA	C-N-CA	-6.86	110.29	121.54
2	2	65	DA	P-O3'-C3'	-6.86	109.92	120.20
10	Y	45	TYR	N-CA-C	-6.85	95.94	107.99
5	D	223	PRO	N-CA-C	-6.84	107.56	114.68
10	Y	166	ASP	CB-CA-C	6.84	119.91	110.06
9	S	16	GLY	CA-C-N	-6.83	112.57	123.91
9	S	16	GLY	C-N-CA	-6.83	112.57	123.91
5	D	111	HIS	CA-C-N	-6.82	109.53	122.08
5	D	111	HIS	C-N-CA	-6.82	109.53	122.08
5	D	170	PHE	N-CA-C	6.82	119.21	107.28
2	2	84	DT	P-O3'-C3'	-6.82	109.97	120.20
5	D	101	VAL	N-CA-C	-6.82	95.16	109.34
6	E	483	SER	N-CA-C	-6.82	103.93	111.36
3	A	238	LEU	N-CA-C	-6.82	105.50	113.88
5	C	101	VAL	N-CA-C	-6.82	95.17	109.34
9	V	40	GLU	CA-C-N	-6.82	109.66	121.66
9	V	40	GLU	C-N-CA	-6.82	109.66	121.66
4	B	169	VAL	N-CA-C	-6.80	104.37	111.58
4	B	558	GLY	CA-C-N	-6.79	108.57	121.54
4	B	558	GLY	C-N-CA	-6.79	108.57	121.54
3	A	403	SER	CB-CA-C	-6.78	99.80	114.10
5	C	45	LEU	CA-C-N	-6.77	108.61	121.54
5	C	45	LEU	C-N-CA	-6.77	108.61	121.54
4	B	170	THR	CA-CB-OG1	-6.76	99.46	109.60
5	C	111	HIS	CA-C-N	-6.76	109.64	122.08
5	C	111	HIS	C-N-CA	-6.76	109.64	122.08
10	Y	183	ILE	N-CA-C	-6.75	103.89	113.07
9	T	51	THR	CA-C-N	-6.74	111.47	122.26
9	T	51	THR	C-N-CA	-6.74	111.47	122.26
3	A	1037	LEU	CA-CB-CG	-6.74	92.70	116.30
4	B	872	ALA	CA-C-N	-6.74	112.01	122.59
4	B	872	ALA	C-N-CA	-6.74	112.01	122.59
2	2	97	DG	P-O3'-C3'	-6.73	110.10	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	38	GLU	N-CA-C	6.73	125.13	110.80
3	A	697	ASN	CA-C-N	-6.73	108.69	121.54
3	A	697	ASN	C-N-CA	-6.73	108.69	121.54
6	E	430	LEU	CA-CB-CG	-6.71	92.80	116.30
3	A	130	ILE	N-CA-C	-6.71	95.39	109.34
9	U	296	LEU	CB-CA-C	-6.70	98.91	109.70
8	G	308	THR	C-N-CD	-6.70	97.55	125.00
3	A	1000	LEU	CA-CB-CG	-6.68	92.92	116.30
4	B	425	ALA	N-CA-C	6.66	118.57	109.11
6	E	480	SER	CB-CA-C	-6.66	96.61	110.40
6	E	467	ASP	CA-C-N	-6.65	114.12	123.03
6	E	467	ASP	C-N-CA	-6.65	114.12	123.03
3	A	673	SER	CB-CA-C	-6.65	97.19	110.42
4	B	167	LEU	CA-CB-CG	-6.64	93.05	116.30
3	A	680	LEU	CA-C-N	-6.64	110.78	122.07
3	A	680	LEU	C-N-CA	-6.64	110.78	122.07
10	Y	90	TYR	CA-CB-CG	-6.63	101.96	113.90
4	B	587	VAL	CA-C-N	-6.62	115.81	122.77
4	B	587	VAL	C-N-CA	-6.62	115.81	122.77
10	X	90	TYR	CA-CB-CG	-6.62	101.98	113.90
4	B	1058	VAL	CA-C-N	6.60	131.30	120.94
4	B	1058	VAL	C-N-CA	6.60	131.30	120.94
9	U	104	TYR	CA-C-N	6.60	137.91	121.80
9	U	104	TYR	C-N-CA	6.60	137.91	121.80
5	C	174	ARG	CB-CA-C	-6.60	102.58	114.52
4	B	225	MET	CA-C-N	-6.58	112.09	121.83
4	B	225	MET	C-N-CA	-6.58	112.09	121.83
6	E	116	TRP	CA-C-N	-6.58	111.62	122.08
6	E	116	TRP	C-N-CA	-6.58	111.62	122.08
4	B	12	GLN	CA-CB-CG	-6.57	100.96	114.10
7	F	67	ASP	CA-C-N	-6.57	112.31	122.49
7	F	67	ASP	C-N-CA	-6.57	112.31	122.49
6	E	244	MET	N-CA-C	-6.56	104.05	111.07
6	E	261	GLN	CB-CA-C	-6.55	99.95	111.22
3	A	377	PHE	CA-C-N	-6.55	112.61	121.71
3	A	377	PHE	C-N-CA	-6.55	112.61	121.71
3	A	256	LEU	CA-C-N	-6.55	111.74	122.54
3	A	256	LEU	C-N-CA	-6.55	111.74	122.54
3	A	1017	PHE	CA-CB-CG	-6.55	107.25	113.80
1	1	34	DT	P-O3'-C3'	-6.54	110.38	120.20
9	U	128	SER	N-CA-C	-6.54	106.26	114.56
6	E	72	HIS	N-CA-C	-6.53	104.16	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	411	ASN	CA-C-N	-6.53	105.87	121.80
6	E	411	ASN	C-N-CA	-6.53	105.87	121.80
6	E	315	ASP	CA-C-N	-6.53	109.08	121.54
6	E	315	ASP	C-N-CA	-6.53	109.08	121.54
4	B	4	ARG	CA-C-N	-6.50	111.85	121.99
4	B	4	ARG	C-N-CA	-6.50	111.85	121.99
7	F	64	GLU	CA-C-N	-6.49	111.77	120.79
7	F	64	GLU	C-N-CA	-6.49	111.77	120.79
2	2	102	DT	P-O3'-C3'	-6.48	110.48	120.20
3	A	1014	GLY	CA-C-N	-6.48	110.76	121.97
3	A	1014	GLY	C-N-CA	-6.48	110.76	121.97
4	B	389	PRO	CB-CA-C	-6.47	103.10	111.39
3	A	592	SER	CA-C-N	-6.47	111.80	120.54
3	A	592	SER	C-N-CA	-6.47	111.80	120.54
3	A	826	ASP	CA-C-N	-6.47	112.63	122.21
3	A	826	ASP	C-N-CA	-6.47	112.63	122.21
3	A	1023	TRP	N-CA-C	-6.46	104.71	112.59
9	T	55	LYS	CA-C-N	-6.45	110.77	121.80
9	T	55	LYS	C-N-CA	-6.45	110.77	121.80
4	B	384	ILE	N-CA-CB	6.45	121.87	111.23
8	G	84	LEU	CA-CB-CG	-6.45	93.73	116.30
8	G	337	LEU	CD1-CG-CD2	-6.44	96.62	110.80
4	B	42	ARG	N-CA-C	-6.44	104.52	112.38
8	G	225	GLN	CA-CB-CG	-6.44	101.22	114.10
3	A	384	SER	CA-CB-OG	-6.43	98.25	111.10
10	X	78	LEU	N-CA-C	-6.42	105.41	113.18
9	T	243	PRO	N-CA-C	6.42	125.70	112.47
10	Y	78	LEU	N-CA-C	-6.41	105.42	113.18
9	T	239	ILE	N-CA-C	6.41	117.94	108.65
3	A	826	ASP	N-CA-C	-6.41	100.35	109.96
3	A	744	GLY	CA-C-N	-6.41	110.58	120.31
3	A	744	GLY	C-N-CA	-6.41	110.58	120.31
9	U	67	ALA	CA-C-N	-6.39	111.22	120.29
9	U	67	ALA	C-N-CA	-6.39	111.22	120.29
10	X	211	THR	N-CA-C	6.38	118.22	108.52
3	A	1037	LEU	N-CA-C	-6.37	105.36	113.01
4	B	1174	GLU	N-CA-C	-6.37	104.99	112.89
8	G	212	TRP	CA-C-N	-6.37	111.94	120.54
8	G	212	TRP	C-N-CA	-6.37	111.94	120.54
4	B	162	ASN	N-CA-CB	6.37	119.11	109.94
9	T	67	ALA	CA-C-N	-6.37	111.25	120.29
9	T	67	ALA	C-N-CA	-6.37	111.25	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	1038	LEU	N-CA-C	-6.37	101.82	111.56
9	S	280	THR	N-CA-C	6.37	117.52	108.74
3	A	564	VAL	CA-CB-CG2	-6.35	99.60	110.40
9	U	184	PRO	N-CA-C	-6.35	101.01	111.11
9	T	48	PHE	CA-CB-CG	6.34	120.14	113.80
3	A	985	LEU	CA-CB-CG	-6.34	94.11	116.30
3	A	607	ARG	CA-CB-CG	6.33	126.76	114.10
4	B	211	GLU	CA-C-O	6.33	127.19	120.36
4	B	1001	ARG	CG-CD-NE	-6.33	98.08	112.00
6	E	278	ARG	CA-C-N	-6.33	112.46	120.56
6	E	278	ARG	C-N-CA	-6.33	112.46	120.56
6	E	146	VAL	N-CA-C	6.32	117.53	107.98
4	B	405	THR	N-CA-C	6.32	117.77	108.86
4	B	1189	GLN	CB-CG-CD	6.32	123.34	112.60
3	A	566	LEU	CA-CB-CG	-6.32	94.19	116.30
10	Y	39	ASP	N-CA-C	6.31	117.66	109.64
4	B	1171	ARG	N-CA-C	-6.31	104.32	111.07
4	B	162	ASN	N-CA-C	-6.30	100.36	109.31
4	B	496	LEU	N-CA-CB	6.30	119.27	110.26
9	U	153	THR	CB-CA-C	6.30	124.25	111.78
5	C	60	GLY	N-CA-C	-6.30	105.15	112.83
8	G	300	ASP	CA-C-N	-6.29	110.44	120.70
8	G	300	ASP	C-N-CA	-6.29	110.44	120.70
3	A	578	LEU	CA-C-N	-6.29	109.62	121.63
3	A	578	LEU	C-N-CA	-6.29	109.62	121.63
10	X	39	ASP	N-CA-C	6.29	117.63	109.64
3	A	95	MET	CA-CB-CG	-6.28	101.54	114.10
4	B	24	TYR	CA-CB-CG	-6.27	102.61	113.90
8	G	83	ARG	CB-CA-C	-6.27	97.94	110.42
3	A	826	ASP	CB-CA-C	6.27	119.92	109.89
6	E	42	PRO	CA-C-N	-6.26	109.57	121.54
6	E	42	PRO	C-N-CA	-6.26	109.57	121.54
4	B	396	THR	N-CA-C	6.26	123.64	109.81
8	G	298	LEU	CA-C-N	-6.26	109.79	121.93
8	G	298	LEU	C-N-CA	-6.26	109.79	121.93
9	S	241	LEU	N-CA-C	6.25	118.90	108.96
4	B	6	ARG	CA-C-N	-6.25	110.72	121.97
4	B	6	ARG	C-N-CA	-6.25	110.72	121.97
3	A	592	SER	CB-CA-C	-6.24	100.48	109.84
4	B	773	ARG	CA-C-N	-6.24	110.05	122.40
4	B	773	ARG	C-N-CA	-6.24	110.05	122.40
9	U	284	ARG	CA-C-N	6.24	131.97	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	U	284	ARG	C-N-CA	6.24	131.97	122.37
9	V	261	LEU	CA-C-N	-6.23	110.47	122.06
9	V	261	LEU	C-N-CA	-6.23	110.47	122.06
3	A	742	ASN	N-CA-C	-6.23	104.25	113.72
9	V	262	ALA	CA-C-O	-6.23	111.77	119.18
3	A	885	ASN	N-CA-CB	6.22	121.44	110.37
4	B	1225	ILE	CA-C-N	-6.22	112.49	122.62
4	B	1225	ILE	C-N-CA	-6.22	112.49	122.62
9	S	167	ILE	CA-C-N	6.21	130.36	122.16
9	S	167	ILE	C-N-CA	6.21	130.36	122.16
5	C	20	TYR	CA-CB-CG	6.21	125.07	113.90
3	A	902	LEU	CA-CB-CG	-6.20	94.59	116.30
5	C	58	ILE	CA-CB-CG1	-6.20	99.86	110.40
3	A	715	THR	CA-CB-OG1	-6.19	100.31	109.60
9	S	171	THR	CA-C-N	-6.19	111.42	122.32
9	S	171	THR	C-N-CA	-6.19	111.42	122.32
5	D	20	TYR	CA-CB-CG	6.19	125.04	113.90
4	B	620	GLY	N-CA-C	-6.19	106.71	115.43
3	A	465	PRO	N-CA-C	6.18	120.92	111.15
6	E	48	ARG	CA-C-N	-6.18	109.79	121.66
6	E	48	ARG	C-N-CA	-6.18	109.79	121.66
9	V	236	GLY	N-CA-C	6.17	127.81	113.18
4	B	43	TYR	CA-CB-CG	-6.17	102.80	113.90
4	B	287	THR	CA-CB-OG1	-6.17	100.35	109.60
9	S	172	ALA	N-CA-C	6.16	116.37	108.24
8	G	82	ILE	N-CA-C	-6.16	104.33	110.30
6	E	416	TRP	CA-CB-CG	-6.16	101.91	113.60
2	2	101	DA	P-O3'-C3'	-6.15	110.97	120.20
4	B	45	THR	CA-C-N	-6.15	112.45	120.44
4	B	45	THR	C-N-CA	-6.15	112.45	120.44
3	A	396	LEU	CB-CG-CD1	-6.14	92.28	110.70
4	B	1147	GLN	CA-C-N	-6.14	110.47	120.72
4	B	1147	GLN	C-N-CA	-6.14	110.47	120.72
9	U	176	PRO	N-CA-CB	-6.14	96.81	103.25
9	T	168	GLU	CA-C-O	-6.13	114.40	121.82
8	G	313	VAL	N-CA-C	-6.13	104.73	113.07
3	A	1041	LYS	CA-C-N	-6.13	109.83	121.54
3	A	1041	LYS	C-N-CA	-6.13	109.83	121.54
4	B	222	VAL	CB-CA-C	-6.13	101.24	111.29
5	C	193	ARG	CA-C-N	-6.12	111.81	123.32
5	C	193	ARG	C-N-CA	-6.12	111.81	123.32
6	E	228	LEU	CA-CB-CG	-6.12	94.87	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	716	SER	CA-CB-OG	-6.12	98.86	111.10
4	B	692	LEU	CB-CA-C	6.12	122.59	110.42
6	E	44	THR	CB-CA-C	-6.11	98.34	111.78
6	E	241	PRO	N-CA-C	-6.11	106.22	113.86
4	B	1109	CYS	CA-C-N	-6.09	112.61	120.65
4	B	1109	CYS	C-N-CA	-6.09	112.61	120.65
7	F	60	ARG	N-CA-C	-6.08	104.56	111.07
6	E	248	VAL	CA-C-N	-6.08	110.89	122.13
6	E	248	VAL	C-N-CA	-6.08	110.89	122.13
4	B	677	LYS	CA-C-N	-6.08	113.88	123.24
4	B	677	LYS	C-N-CA	-6.08	113.88	123.24
4	B	52	SER	CB-CA-C	-6.07	98.33	110.42
4	B	461	GLU	N-CA-CB	6.07	120.75	110.49
6	E	53	GLU	CA-C-N	-6.06	109.96	121.54
6	E	53	GLU	C-N-CA	-6.06	109.96	121.54
4	B	1052	ILE	N-CA-CB	-6.06	101.29	112.43
9	U	5	GLN	N-CA-C	-6.05	105.61	112.87
4	B	731	PRO	N-CD-CG	-6.04	94.13	103.20
4	B	1190	TYR	CA-CB-CG	-6.04	103.03	113.90
4	B	1100	LEU	N-CA-C	-6.04	105.41	112.89
3	A	697	ASN	CB-CA-C	-6.03	98.41	110.42
3	A	54	SER	CB-CA-C	-6.03	98.29	110.17
3	A	280	LYS	CA-CB-CG	-6.03	102.04	114.10
7	F	52	ASP	N-CA-C	-6.02	103.88	111.11
2	2	82	DC	P-O3'-C3'	-6.02	111.17	120.20
5	C	81	ARG	CB-CG-CD	6.02	125.14	111.30
4	B	128	SER	N-CA-C	-6.01	104.42	110.97
3	A	259	SER	CA-C-N	-6.01	110.46	121.52
3	A	259	SER	C-N-CA	-6.01	110.46	121.52
4	B	1061	TYR	N-CA-C	6.01	123.09	109.81
10	X	199	GLU	CA-C-N	-6.01	114.22	123.17
10	X	199	GLU	C-N-CA	-6.01	114.22	123.17
9	V	224	ASN	N-CA-C	-6.00	106.50	113.88
8	G	220	ARG	CA-C-N	-6.00	112.47	120.63
8	G	220	ARG	C-N-CA	-6.00	112.47	120.63
9	T	292	HIS	CA-C-N	-6.00	112.16	120.38
9	T	292	HIS	C-N-CA	-6.00	112.16	120.38
4	B	54	ASP	CA-CB-CG	-6.00	106.60	112.60
4	B	595	ARG	N-CA-C	-5.99	102.62	110.53
4	B	1132	GLN	CA-CB-CG	-5.99	102.13	114.10
5	D	81	ARG	CB-CG-CD	5.98	125.06	111.30
3	A	404	ALA	N-CA-C	-5.98	103.64	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	833	ASN	CA-C-N	-5.97	112.09	122.37
3	A	833	ASN	C-N-CA	-5.97	112.09	122.37
4	B	1061	TYR	CB-CA-C	-5.97	98.41	110.17
8	G	192	ILE	CA-C-N	-5.97	113.38	122.21
8	G	192	ILE	C-N-CA	-5.97	113.38	122.21
4	B	42	ARG	CA-C-N	-5.96	112.69	120.44
4	B	42	ARG	C-N-CA	-5.96	112.69	120.44
3	A	936	LEU	CB-CA-C	-5.96	100.95	110.84
4	B	82	ARG	CA-C-N	-5.96	109.74	121.41
4	B	82	ARG	C-N-CA	-5.96	109.74	121.41
4	B	185	ASP	N-CA-C	-5.96	104.72	112.23
5	D	7	GLU	CA-C-N	-5.96	112.53	121.05
5	D	7	GLU	C-N-CA	-5.96	112.53	121.05
4	B	1061	TYR	CA-CB-CG	5.95	124.61	113.90
9	T	197	LYS	N-CA-CB	5.95	119.57	109.87
9	S	15	THR	O-C-N	-5.95	117.06	123.42
9	V	171	THR	CA-C-N	-5.95	110.69	121.69
9	V	171	THR	C-N-CA	-5.95	110.69	121.69
5	C	7	GLU	CA-C-N	-5.94	112.56	121.05
5	C	7	GLU	C-N-CA	-5.94	112.56	121.05
10	X	100	LEU	CA-C-O	-5.93	112.02	120.51
10	X	211	THR	CB-CA-C	-5.93	100.44	109.99
6	E	289	LEU	CA-CB-CG	-5.93	95.55	116.30
6	E	319	ARG	CB-CG-CD	-5.92	97.67	111.30
7	F	28	ARG	CB-CG-CD	-5.92	97.68	111.30
3	A	730	LYS	N-CA-C	-5.92	105.77	112.87
4	B	389	PRO	N-CA-C	5.92	120.52	111.11
5	C	38	ASN	CA-CB-CG	-5.92	106.69	112.60
3	A	537	VAL	CA-C-N	-5.91	112.42	122.11
3	A	537	VAL	C-N-CA	-5.91	112.42	122.11
3	A	675	THR	CA-C-N	-5.91	112.40	120.44
3	A	675	THR	C-N-CA	-5.91	112.40	120.44
9	T	201	GLY	CA-C-N	-5.91	112.28	120.38
9	T	201	GLY	C-N-CA	-5.91	112.28	120.38
6	E	460	VAL	CA-C-N	-5.91	107.38	121.80
6	E	460	VAL	C-N-CA	-5.91	107.38	121.80
3	A	343	LEU	CA-C-N	-5.91	111.91	120.29
3	A	343	LEU	C-N-CA	-5.91	111.91	120.29
3	A	596	GLY	CA-C-N	-5.90	114.22	123.13
3	A	596	GLY	C-N-CA	-5.90	114.22	123.13
3	A	411	THR	N-CA-C	-5.90	102.88	110.19
4	B	252	LYS	N-CA-C	-5.90	105.23	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	1054	SER	N-CA-C	5.90	120.13	111.34
8	G	192	ILE	CA-CB-CG1	-5.90	100.38	110.40
4	B	774	LEU	CB-CA-C	5.89	118.00	110.16
5	C	84	GLU	CA-C-N	-5.89	111.37	121.97
5	C	84	GLU	C-N-CA	-5.89	111.37	121.97
5	D	156	GLU	N-CA-C	-5.89	106.18	113.19
3	A	921	GLU	N-CA-C	-5.89	106.72	114.31
4	B	210	ARG	CA-C-N	-5.89	114.69	122.99
4	B	210	ARG	C-N-CA	-5.89	114.69	122.99
5	C	192	ASP	N-CA-CB	-5.88	101.75	111.69
8	G	221	ALA	N-CA-C	-5.88	104.50	111.03
3	A	700	ASP	N-CA-C	5.88	123.33	110.80
5	C	163	PHE	N-CA-CB	-5.88	101.20	110.49
7	F	63	ILE	CA-C-N	-5.88	111.19	120.60
7	F	63	ILE	C-N-CA	-5.88	111.19	120.60
3	A	39	ARG	CB-CG-CD	5.88	124.81	111.30
3	A	1033	THR	CA-CB-OG1	-5.87	100.79	109.60
4	B	671	VAL	CA-C-N	-5.87	117.39	122.96
4	B	671	VAL	C-N-CA	-5.87	117.39	122.96
6	E	431	ASN	CA-CB-CG	-5.87	106.73	112.60
3	A	699	GLU	CA-C-N	-5.87	110.33	121.54
3	A	699	GLU	C-N-CA	-5.87	110.33	121.54
5	D	88	LYS	N-CA-C	5.87	117.32	108.46
3	A	1020	MET	N-CA-C	-5.87	104.24	111.75
4	B	1180	MET	N-CA-C	-5.87	106.17	113.15
3	A	611	SER	N-CA-C	-5.86	102.59	111.56
4	B	1178	GLU	N-CA-C	-5.86	105.62	112.89
4	B	596	TYR	CA-CB-CG	-5.86	103.36	113.90
10	X	43	ARG	N-CA-C	-5.86	100.45	109.76
5	D	84	GLU	CA-C-N	-5.85	111.43	121.97
5	D	84	GLU	C-N-CA	-5.85	111.43	121.97
3	A	696	TYR	N-CA-C	-5.85	105.72	112.86
6	E	262	LEU	CA-CB-CG	-5.85	95.83	116.30
5	C	4	PHE	CA-C-N	-5.84	112.66	122.29
5	C	4	PHE	C-N-CA	-5.84	112.66	122.29
5	C	88	LYS	N-CA-C	5.84	117.27	108.46
4	B	51	ILE	CA-CB-CG1	-5.83	100.48	110.40
7	F	63	ILE	N-CA-CB	-5.83	103.72	110.55
3	A	55	PRO	N-CA-C	5.83	120.24	111.14
4	B	185	ASP	N-CA-CB	5.83	119.27	110.30
3	A	420	ARG	CA-C-N	-5.82	110.42	121.54
3	A	420	ARG	C-N-CA	-5.82	110.42	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	572	PRO	N-CA-C	-5.81	100.49	112.47
3	A	358	VAL	N-CA-C	-5.81	108.19	113.71
4	B	1001	ARG	CB-CG-CD	5.81	124.66	111.30
3	A	1028	PHE	N-CA-C	-5.81	106.82	114.31
3	A	239	TYR	N-CA-C	-5.81	107.43	114.75
4	B	820	PRO	N-CA-C	-5.81	106.11	114.18
3	A	511	ARG	N-CA-C	5.79	118.17	108.73
5	D	4	PHE	CA-C-N	-5.79	112.74	122.29
5	D	4	PHE	C-N-CA	-5.79	112.74	122.29
6	E	502	THR	CB-CA-C	-5.79	97.75	111.65
4	B	1175	GLN	CA-C-N	-5.79	110.81	120.30
4	B	1175	GLN	C-N-CA	-5.79	110.81	120.30
6	E	117	TYR	N-CA-C	-5.79	104.40	113.02
9	S	174	ASN	CA-C-N	-5.78	103.63	120.69
9	S	174	ASN	C-N-CA	-5.78	103.63	120.69
3	A	237	GLU	N-CA-C	-5.78	106.61	113.38
9	U	102	GLY	CA-C-N	-5.78	112.06	122.46
9	U	102	GLY	C-N-CA	-5.78	112.06	122.46
10	X	100	LEU	CB-CA-C	-5.78	98.92	110.42
9	U	142	LEU	CA-CB-CG	5.78	136.53	116.30
9	U	154	GLY	N-CA-C	-5.78	99.48	113.18
4	B	249	ILE	CA-C-O	-5.77	113.57	120.78
3	A	610	VAL	N-CA-C	-5.77	97.34	109.34
6	E	171	GLU	CA-CB-CG	-5.77	102.56	114.10
3	A	876	ASP	N-CA-C	-5.77	104.35	111.33
3	A	141	ILE	CB-CA-C	-5.76	103.32	111.38
3	A	294	SER	CA-C-N	-5.76	113.67	119.94
3	A	294	SER	C-N-CA	-5.76	113.67	119.94
6	E	460	VAL	CA-CB-CG2	-5.75	100.62	110.40
7	F	29	TYR	CB-CA-C	-5.75	98.97	110.42
9	V	100	LEU	CA-C-N	-5.75	113.10	122.65
9	V	100	LEU	C-N-CA	-5.75	113.10	122.65
3	A	673	SER	CA-CB-OG	-5.75	99.60	111.10
5	C	176	VAL	CB-CA-C	5.74	117.14	111.74
9	T	207	GLN	N-CA-C	-5.74	104.38	111.33
6	E	320	GLY	N-CA-C	-5.74	103.83	112.89
9	T	185	TRP	CB-CA-C	5.74	121.83	110.42
6	E	610	PRO	N-CA-C	-5.73	104.49	113.78
3	A	425	SER	CB-CA-C	-5.73	101.64	110.81
4	B	287	THR	N-CA-CB	-5.73	100.80	110.49
6	E	211	GLU	CA-C-N	-5.72	112.04	120.28
6	E	211	GLU	C-N-CA	-5.72	112.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	1083	ASP	N-CA-C	-5.72	99.28	108.55
6	E	289	LEU	CB-CG-CD1	-5.72	93.55	110.70
4	B	138	ARG	N-CA-CB	5.71	118.25	109.91
3	A	679	GLU	CA-C-N	-5.71	114.91	122.85
3	A	679	GLU	C-N-CA	-5.71	114.91	122.85
4	B	1130	GLN	N-CA-C	-5.71	106.67	113.97
9	V	262	ALA	N-CA-CB	5.70	119.42	110.46
4	B	446	ALA	N-CA-C	-5.70	103.69	111.56
2	2	105	DG	P-O3'-C3'	-5.70	111.65	120.20
4	B	513	THR	N-CA-C	-5.69	99.53	108.63
3	A	1062	PRO	N-CA-C	5.69	124.18	112.47
6	E	383	LEU	CD1-CG-CD2	-5.68	98.29	110.80
8	G	261	GLU	N-CA-C	-5.68	105.17	111.71
3	A	838	VAL	CA-CB-CG1	-5.68	100.74	110.40
3	A	48	GLU	N-CA-CB	-5.68	100.90	110.49
3	A	864	ARG	CA-C-N	-5.67	111.76	121.97
3	A	864	ARG	C-N-CA	-5.67	111.76	121.97
3	A	881	ASP	N-CA-CB	-5.67	100.77	111.43
6	E	430	LEU	CA-C-N	-5.67	111.96	121.94
6	E	430	LEU	C-N-CA	-5.67	111.96	121.94
3	A	903	LEU	CA-CB-CG	-5.67	96.47	116.30
6	E	383	LEU	CB-CG-CD1	-5.67	93.71	110.70
3	A	905	TRP	N-CA-C	-5.66	102.03	111.37
4	B	16	LEU	CD1-CG-CD2	-5.66	98.35	110.80
3	A	899	PHE	CA-C-N	-5.66	112.70	120.28
3	A	899	PHE	C-N-CA	-5.66	112.70	120.28
4	B	5	ASN	CB-CA-C	-5.66	100.02	109.75
7	F	32	THR	CA-CB-OG1	-5.66	101.11	109.60
7	F	33	VAL	CA-C-N	-5.65	112.70	120.28
7	F	33	VAL	C-N-CA	-5.65	112.70	120.28
4	B	1112	HIS	N-CA-C	-5.65	104.50	111.33
6	E	504	ARG	N-CA-C	5.65	116.78	109.72
5	C	126	TYR	CA-C-N	-5.65	111.80	121.97
5	C	126	TYR	C-N-CA	-5.65	111.80	121.97
5	D	127	VAL	CA-C-N	-5.65	112.94	121.86
5	D	127	VAL	C-N-CA	-5.65	112.94	121.86
4	B	1243	ARG	CG-CD-NE	-5.64	99.60	112.00
6	E	383	LEU	CA-CB-CG	-5.64	96.57	116.30
4	B	404	VAL	CA-C-N	-5.63	113.46	122.53
4	B	404	VAL	C-N-CA	-5.63	113.46	122.53
5	C	100	LEU	CA-C-N	-5.63	111.83	121.97
5	C	100	LEU	C-N-CA	-5.63	111.83	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	127	VAL	CA-C-N	-5.63	112.97	121.86
5	C	127	VAL	C-N-CA	-5.63	112.97	121.86
8	G	299	GLY	CA-C-N	-5.63	110.79	121.54
8	G	299	GLY	C-N-CA	-5.63	110.79	121.54
8	G	345	ASP	CA-CB-CG	-5.63	106.97	112.60
4	B	1225	ILE	CG1-CB-CG2	-5.62	93.83	110.70
4	B	247	ASP	CB-CA-C	-5.62	100.49	112.63
5	D	126	TYR	CA-C-N	-5.61	111.87	121.97
5	D	126	TYR	C-N-CA	-5.61	111.87	121.97
10	Y	35	PHE	N-CA-CB	5.61	118.07	110.38
3	A	716	SER	CB-CA-C	-5.61	99.26	110.42
3	A	804	LEU	CB-CG-CD1	-5.61	93.87	110.70
4	B	935	GLU	CA-C-N	-5.61	110.89	121.66
4	B	935	GLU	C-N-CA	-5.61	110.89	121.66
3	A	617	ALA	CA-C-N	-5.60	111.64	120.60
3	A	617	ALA	C-N-CA	-5.60	111.64	120.60
3	A	132	GLY	N-CA-C	-5.60	99.91	113.18
9	T	187	GLU	N-CA-C	-5.60	105.21	113.61
4	B	184	VAL	CA-CB-CG1	-5.60	100.88	110.40
9	V	288	PRO	N-CA-C	5.60	117.53	110.70
10	Y	146	GLY	N-CA-C	-5.60	105.83	113.27
3	A	609	ARG	CG-CD-NE	-5.60	99.69	112.00
4	B	1173	VAL	CA-C-N	-5.60	111.35	121.14
4	B	1173	VAL	C-N-CA	-5.60	111.35	121.14
8	G	378	HIS	N-CA-CB	5.60	119.75	109.73
6	E	456	LEU	CA-CB-CG	-5.59	96.72	116.30
9	U	163	TYR	CA-C-O	-5.59	115.38	121.14
3	A	452	ARG	N-CA-C	-5.59	101.02	108.34
3	A	577	GLY	CA-C-N	-5.58	110.82	121.15
3	A	577	GLY	C-N-CA	-5.58	110.82	121.15
8	G	210	ALA	CA-C-N	-5.58	113.00	120.54
8	G	210	ALA	C-N-CA	-5.58	113.00	120.54
4	B	624	VAL	CA-C-N	-5.58	114.91	122.77
4	B	624	VAL	C-N-CA	-5.58	114.91	122.77
3	A	270	GLY	N-CA-C	-5.57	99.97	113.18
3	A	240	ARG	CB-CG-CD	-5.57	98.49	111.30
3	A	633	GLN	N-CA-C	5.57	117.73	110.43
3	A	973	THR	CA-CB-OG1	-5.57	101.25	109.60
5	C	80	MET	N-CA-C	-5.57	105.13	111.14
7	F	32	THR	CA-C-N	-5.57	112.83	120.46
7	F	32	THR	C-N-CA	-5.57	112.83	120.46
9	V	247	LEU	N-CA-C	-5.57	105.61	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	597	ARG	CB-CG-CD	5.56	124.10	111.30
3	A	722	TYR	CA-CB-CG	-5.56	103.89	113.90
6	E	156	LEU	CA-C-N	-5.56	113.20	122.21
6	E	156	LEU	C-N-CA	-5.56	113.20	122.21
3	A	1016	ARG	CA-C-N	-5.56	112.15	121.94
3	A	1016	ARG	C-N-CA	-5.56	112.15	121.94
6	E	541	VAL	CA-C-N	-5.56	113.49	120.77
6	E	541	VAL	C-N-CA	-5.56	113.49	120.77
3	A	293	THR	CB-CA-C	-5.56	100.47	110.36
5	D	100	LEU	CA-C-N	-5.56	111.97	121.97
5	D	100	LEU	C-N-CA	-5.56	111.97	121.97
3	A	1090	GLU	N-CA-C	-5.56	106.20	112.87
3	A	405	LEU	N-CA-C	-5.55	102.18	110.23
4	B	82	ARG	N-CA-C	-5.55	106.34	113.01
10	Y	34	ILE	CA-C-N	-5.55	110.62	121.06
10	Y	34	ILE	C-N-CA	-5.55	110.62	121.06
3	A	503	ILE	CA-CB-CG1	-5.55	100.96	110.40
6	E	502	THR	CA-CB-OG1	-5.55	101.27	109.60
9	T	245	SER	N-CA-C	-5.55	106.21	112.87
9	U	296	LEU	CA-C-O	-5.55	115.05	121.15
10	X	35	PHE	N-CA-CB	5.55	117.98	110.38
10	X	34	ILE	CA-C-N	-5.54	110.64	121.06
10	X	34	ILE	C-N-CA	-5.54	110.64	121.06
10	Y	164	CYS	CB-CA-C	-5.54	109.69	117.23
6	E	47	TYR	CA-CB-CG	-5.54	103.92	113.90
3	A	691	MET	N-CA-C	5.54	122.05	109.81
4	B	72	GLU	CA-C-N	-5.54	112.87	120.46
4	B	72	GLU	C-N-CA	-5.54	112.87	120.46
7	F	42	ARG	CA-CB-CG	-5.54	103.02	114.10
3	A	152	GLU	CA-C-N	-5.54	115.87	123.46
3	A	152	GLU	C-N-CA	-5.54	115.87	123.46
4	B	74	ARG	CB-CG-CD	-5.54	98.56	111.30
6	E	316	ASN	N-CA-C	-5.53	99.02	110.80
3	A	966	GLU	CA-CB-CG	-5.53	103.04	114.10
3	A	1005	PRO	N-CA-C	-5.53	103.42	111.33
10	X	100	LEU	N-CA-C	5.53	122.58	110.80
3	A	395	GLU	CB-CG-CD	5.53	121.99	112.60
6	E	574	VAL	N-CA-C	-5.52	107.26	111.62
6	E	352	LYS	CA-C-N	-5.51	109.65	121.45
6	E	352	LYS	C-N-CA	-5.51	109.65	121.45
3	A	671	ASP	CA-C-N	-5.51	115.47	122.19
3	A	671	ASP	C-N-CA	-5.51	115.47	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	603	PHE	N-CA-CB	5.51	119.69	110.59
4	B	512	GLU	CB-CA-C	-5.51	102.19	110.24
3	A	405	LEU	CA-CB-CG	-5.51	97.03	116.30
5	D	18	ASN	N-CA-CB	5.51	119.80	110.49
3	A	901	CYS	CA-CB-SG	-5.50	101.75	114.40
3	A	1084	ILE	N-CA-C	5.50	115.81	108.27
8	G	306	GLY	N-CA-C	-5.50	100.15	113.18
5	C	18	ASN	N-CA-CB	5.50	119.78	110.49
5	D	113	ASP	CA-C-N	-5.49	115.46	122.98
5	D	113	ASP	C-N-CA	-5.49	115.46	122.98
8	G	128	PRO	N-CA-C	-5.49	107.49	114.35
8	G	219	THR	N-CA-C	-5.49	105.20	111.07
8	G	314	SER	CA-CB-OG	-5.49	100.13	111.10
5	C	113	ASP	CA-C-N	-5.48	115.47	122.98
5	C	113	ASP	C-N-CA	-5.48	115.47	122.98
6	E	288	ARG	N-CA-C	-5.48	105.80	113.37
3	A	836	VAL	CA-C-N	-5.48	115.26	122.99
3	A	836	VAL	C-N-CA	-5.48	115.26	122.99
3	A	290	ARG	N-CA-C	-5.48	105.91	112.59
3	A	99	THR	CB-CA-C	-5.47	100.66	111.60
4	B	409	THR	N-CA-C	-5.47	105.82	113.37
3	A	843	LYS	CA-CB-CG	5.46	125.03	114.10
9	V	291	LYS	N-CA-C	-5.46	106.98	113.97
3	A	33	ILE	CA-CB-CG1	-5.46	101.11	110.40
9	V	184	PRO	N-CA-CB	-5.46	97.52	103.25
4	B	969	GLY	CA-C-O	-5.46	116.22	121.19
6	E	482	GLU	N-CA-C	-5.46	106.70	113.19
10	Y	166	ASP	CA-CB-CG	5.46	118.06	112.60
3	A	403	SER	N-CA-CB	5.46	119.39	110.55
3	A	752	ASP	CA-C-N	-5.45	113.77	122.66
3	A	752	ASP	C-N-CA	-5.45	113.77	122.66
6	E	594	ARG	CG-CD-NE	5.45	123.98	112.00
7	F	34	GLN	CA-C-N	-5.45	112.69	120.42
7	F	34	GLN	C-N-CA	-5.45	112.69	120.42
9	V	287	ILE	CB-CA-C	5.44	121.27	111.36
5	C	87	LEU	CA-CB-CG	-5.44	97.25	116.30
5	C	38	ASN	N-CA-CB	-5.44	101.83	109.94
6	E	382	GLU	CA-CB-CG	-5.44	103.23	114.10
3	A	865	ILE	N-CA-C	-5.43	98.04	109.34
9	U	2	ARG	CA-C-N	5.43	130.97	121.52
9	U	2	ARG	C-N-CA	5.43	130.97	121.52
10	X	198	ARG	N-CA-C	-5.43	105.44	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	370	LEU	CA-CB-CG	-5.43	97.31	116.30
4	B	102	SER	CA-C-N	-5.42	112.59	120.29
4	B	102	SER	C-N-CA	-5.42	112.59	120.29
6	E	288	ARG	CG-CD-NE	-5.42	100.06	112.00
6	E	42	PRO	CA-C-O	-5.42	115.43	121.23
4	B	2	ILE	N-CA-CB	-5.42	102.29	111.23
5	D	87	LEU	CA-CB-CG	-5.42	97.33	116.30
3	A	703	LEU	CA-CB-CG	-5.42	97.34	116.30
3	A	936	LEU	CB-CG-CD1	-5.42	94.45	110.70
4	B	611	VAL	CA-C-N	-5.42	113.43	122.64
4	B	611	VAL	C-N-CA	-5.42	113.43	122.64
4	B	210	ARG	N-CA-C	-5.41	106.61	113.43
8	G	296	SER	N-CA-CB	-5.41	100.71	110.88
3	A	260	ARG	CA-C-N	-5.41	113.84	122.17
3	A	260	ARG	C-N-CA	-5.41	113.84	122.17
5	C	72	ARG	CB-CG-CD	5.41	123.73	111.30
3	A	294	SER	N-CA-CB	-5.40	102.17	110.01
10	X	50	GLY	N-CA-C	-5.40	103.36	111.19
6	E	11	TYR	CA-CB-CG	-5.40	104.18	113.90
4	B	512	GLU	N-CA-C	5.39	117.41	108.13
3	A	422	ILE	N-CA-CB	-5.39	105.64	112.60
6	E	238	GLY	N-CA-C	-5.39	100.40	113.18
4	B	514	LYS	N-CA-CB	-5.39	101.38	110.49
4	B	966	ILE	CA-C-N	-5.39	113.22	120.82
4	B	966	ILE	C-N-CA	-5.39	113.22	120.82
5	D	72	ARG	CB-CG-CD	5.39	123.70	111.30
3	A	180	ASN	N-CA-CB	-5.39	105.32	111.79
3	A	546	GLU	N-CA-C	-5.39	105.51	111.71
3	A	258	ASP	CA-CB-CG	-5.39	107.21	112.60
4	B	471	THR	CA-C-N	-5.39	112.43	121.75
4	B	471	THR	C-N-CA	-5.39	112.43	121.75
4	B	266	ASP	N-CA-CB	-5.38	101.39	110.49
6	E	315	ASP	CB-CA-C	-5.38	104.76	111.43
4	B	260	ARG	N-CA-C	-5.38	99.52	108.07
9	S	75	GLU	N-CA-C	-5.37	105.09	111.69
4	B	249	ILE	CA-C-N	-5.36	108.72	121.80
4	B	249	ILE	C-N-CA	-5.36	108.72	121.80
3	A	1086	VAL	CG1-CB-CG2	-5.36	99.01	110.80
6	E	459	LEU	N-CA-C	-5.36	104.48	111.02
3	A	400	ARG	CA-C-N	-5.36	113.28	121.74
3	A	400	ARG	C-N-CA	-5.36	113.28	121.74
3	A	825	GLY	CA-C-N	-5.36	113.45	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	825	GLY	C-N-CA	-5.36	113.45	120.95
10	Y	142	HIS	N-CA-C	-5.35	102.97	110.35
10	Y	143	ARG	CA-C-N	-5.35	114.42	122.81
10	Y	143	ARG	C-N-CA	-5.35	114.42	122.81
3	A	657	VAL	N-CA-C	5.35	116.05	107.98
6	E	116	TRP	CA-CB-CG	-5.34	103.45	113.60
3	A	224	GLU	CA-CB-CG	-5.34	103.43	114.10
4	B	221	PRO	CA-C-N	-5.33	112.37	121.97
4	B	221	PRO	C-N-CA	-5.33	112.37	121.97
6	E	390	ASN	CA-C-N	-5.33	111.35	121.54
6	E	390	ASN	C-N-CA	-5.33	111.35	121.54
8	G	347	ARG	CA-C-N	-5.33	111.35	121.54
8	G	347	ARG	C-N-CA	-5.33	111.35	121.54
4	B	904	ASP	CA-C-N	-5.33	113.49	120.95
4	B	904	ASP	C-N-CA	-5.33	113.49	120.95
4	B	1110	ALA	N-CA-C	-5.33	105.16	110.97
6	E	542	ILE	CA-C-N	-5.33	113.35	120.54
6	E	542	ILE	C-N-CA	-5.33	113.35	120.54
3	A	717	ILE	CA-C-N	-5.33	113.58	122.21
3	A	717	ILE	C-N-CA	-5.33	113.58	122.21
10	X	167	GLY	CA-C-O	-5.33	116.98	122.25
6	E	51	LYS	CG-CD-CE	-5.32	99.05	111.30
7	F	62	ILE	N-CA-C	-5.32	98.27	109.34
9	U	227	ASP	CA-C-O	-5.32	115.91	121.55
6	E	287	ALA	N-CA-C	-5.31	104.91	111.33
9	V	184	PRO	CB-CA-C	-5.31	102.80	111.56
9	U	163	TYR	CA-C-N	-5.31	112.22	122.09
9	U	163	TYR	C-N-CA	-5.31	112.22	122.09
4	B	138	ARG	CA-C-N	-5.30	111.34	121.94
4	B	138	ARG	C-N-CA	-5.30	111.34	121.94
10	Y	82	THR	N-CA-C	-5.30	106.51	112.87
3	A	348	ARG	N-CA-C	-5.30	104.97	111.75
3	A	1039	THR	CA-CB-OG1	-5.29	101.67	109.60
5	C	190	PRO	N-CA-C	-5.29	101.58	112.47
10	Y	50	GLY	N-CA-C	-5.29	103.35	110.80
9	S	14	GLU	CA-CB-CG	5.28	124.67	114.10
9	V	14	GLU	CA-CB-CG	5.28	124.67	114.10
4	B	1089	ASN	N-CA-C	-5.28	98.14	109.81
4	B	46	ARG	CA-C-N	-5.28	113.58	120.44
4	B	46	ARG	C-N-CA	-5.28	113.58	120.44
6	E	482	GLU	CA-CB-CG	-5.28	103.54	114.10
5	D	62	SER	N-CA-C	-5.28	105.22	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	383	LEU	CB-CG-CD2	5.27	126.52	110.70
9	V	163	TYR	CA-CB-CG	-5.27	104.42	113.90
3	A	575	GLY	N-CA-C	5.26	125.66	113.18
9	U	77	ALA	N-CA-C	-5.26	105.45	111.14
4	B	683	GLU	N-CA-C	5.26	116.49	107.28
3	A	30	LEU	CB-CG-CD2	-5.26	94.93	110.70
9	S	280	THR	CA-C-N	5.25	130.55	122.93
9	S	280	THR	C-N-CA	5.25	130.55	122.93
4	B	553	VAL	CA-C-N	5.25	131.56	121.54
4	B	553	VAL	C-N-CA	5.25	131.56	121.54
9	U	154	GLY	CA-C-O	-5.25	111.44	120.57
9	T	115	ASP	CA-C-O	-5.25	116.08	122.64
10	X	82	THR	N-CA-C	-5.24	106.58	112.87
3	A	547	HIS	CA-C-N	-5.24	114.24	122.73
3	A	547	HIS	C-N-CA	-5.24	114.24	122.73
4	B	692	LEU	N-CA-C	-5.24	99.64	110.80
4	B	729	GLU	CB-CG-CD	-5.24	103.69	112.60
8	G	307	GLU	N-CA-C	-5.24	101.34	109.72
6	E	544	ALA	N-CA-C	-5.24	105.99	112.38
5	C	175	LYS	N-CA-C	-5.23	103.12	110.50
4	B	589	ALA	N-CA-C	-5.23	99.75	108.07
4	B	537	ILE	CA-C-N	-5.23	115.24	122.30
4	B	537	ILE	C-N-CA	-5.23	115.24	122.30
6	E	485	ALA	CB-CA-C	-5.23	102.64	110.90
4	B	260	ARG	CA-C-N	-5.23	115.82	125.02
4	B	260	ARG	C-N-CA	-5.23	115.82	125.02
3	A	819	LEU	CB-CG-CD1	-5.22	95.03	110.70
9	T	261	LEU	CA-CB-CG	-5.22	98.03	116.30
3	A	843	LYS	N-CA-C	-5.22	102.88	110.24
4	B	7	VAL	CA-CB-CG2	-5.22	101.53	110.40
4	B	384	ILE	CA-CB-CG1	5.22	119.27	110.40
3	A	815	VAL	CA-CB-CG2	-5.22	101.53	110.40
4	B	1131	SER	N-CA-CB	-5.22	101.67	110.49
3	A	87	ARG	N-CA-C	-5.21	106.95	113.15
4	B	875	GLN	CB-CA-C	5.21	118.92	110.22
5	C	62	SER	N-CA-C	-5.21	105.29	110.97
9	T	209	LYS	CB-CA-C	5.21	118.16	109.56
4	B	56	LEU	CA-CB-CG	-5.21	98.06	116.30
4	B	211	GLU	CB-CG-CD	-5.21	103.75	112.60
10	Y	182	ALA	CA-C-N	-5.20	112.51	121.09
10	Y	182	ALA	C-N-CA	-5.20	112.51	121.09
3	A	802	ASN	N-CA-C	-5.20	104.33	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	125	MET	N-CA-CB	5.19	117.70	110.07
3	A	37	SER	CA-C-N	-5.19	111.63	121.54
3	A	37	SER	C-N-CA	-5.19	111.63	121.54
6	E	63	PHE	CA-C-N	5.18	130.01	121.87
6	E	63	PHE	C-N-CA	5.18	130.01	121.87
6	E	542	ILE	CB-CA-C	-5.18	105.06	111.70
9	V	42	ASP	CA-C-N	-5.18	111.98	121.52
9	V	42	ASP	C-N-CA	-5.18	111.98	121.52
10	X	209	LYS	N-CA-C	-5.18	106.11	112.90
4	B	630	LEU	CA-CB-CG	5.18	134.44	116.30
3	A	99	THR	CA-C-N	-5.18	113.12	120.89
3	A	99	THR	C-N-CA	-5.18	113.12	120.89
4	B	93	LYS	N-CA-C	5.17	121.82	110.80
7	F	63	ILE	CB-CA-C	5.17	118.59	111.97
9	V	228	ALA	N-CA-C	-5.17	105.64	111.28
5	C	184	ARG	N-CA-CB	-5.17	101.75	110.49
8	G	206	PHE	N-CA-C	-5.16	106.25	113.37
9	S	42	ASP	CA-C-N	-5.16	112.02	121.52
9	S	42	ASP	C-N-CA	-5.16	112.02	121.52
4	B	52	SER	CA-C-N	-5.16	112.69	121.97
4	B	52	SER	C-N-CA	-5.16	112.69	121.97
9	S	279	VAL	CA-C-N	-5.16	113.91	122.11
9	S	279	VAL	C-N-CA	-5.16	113.91	122.11
5	D	216	ILE	CA-C-N	-5.15	112.04	121.52
5	D	216	ILE	C-N-CA	-5.15	112.04	121.52
6	E	332	LYS	N-CA-C	-5.15	102.28	109.96
3	A	969	ASP	CA-CB-CG	-5.15	107.45	112.60
4	B	285	PRO	CB-CA-C	-5.15	104.12	112.62
6	E	243	TRP	N-CA-C	-5.15	105.75	112.23
8	G	341	TYR	N-CA-C	-5.15	107.05	113.38
9	T	167	ILE	N-CA-CB	5.15	119.72	111.23
4	B	1111	SER	N-CA-C	-5.14	102.89	111.37
3	A	662	ARG	CG-CD-NE	-5.14	100.69	112.00
5	C	20	TYR	N-CA-C	-5.14	99.85	110.80
3	A	200	LYS	N-CA-C	-5.13	108.28	114.75
3	A	279	LYS	CA-C-N	-5.13	113.65	120.63
3	A	279	LYS	C-N-CA	-5.13	113.65	120.63
6	E	249	ILE	CA-CB-CG1	-5.13	101.67	110.40
1	1	35	DG	P-O3'-C3'	-5.13	112.50	120.20
3	A	1066	THR	N-CA-C	-5.13	101.20	109.82
9	U	182	ARG	CA-C-N	5.13	123.47	120.24
9	U	182	ARG	C-N-CA	5.13	123.47	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	1251	TYR	N-CA-C	-5.12	106.13	112.38
3	A	328	VAL	CA-CB-CG1	-5.12	101.70	110.40
3	A	897	GLN	N-CA-C	-5.12	105.82	111.71
6	E	464	PHE	N-CA-C	-5.12	105.89	111.82
8	G	350	THR	N-CA-C	5.12	121.69	110.80
3	A	257	LEU	CA-C-N	-5.11	113.68	120.79
3	A	257	LEU	C-N-CA	-5.11	113.68	120.79
4	B	162	ASN	CB-CA-C	-5.11	102.35	114.16
8	G	309	PRO	N-CA-CB	-5.11	98.75	103.25
3	A	39	ARG	CG-CD-NE	5.11	123.24	112.00
3	A	1015	GLN	N-CA-C	-5.11	103.08	110.64
5	D	20	TYR	N-CA-C	-5.11	99.91	110.80
2	2	104	DC	P-O3'-C3'	-5.11	112.54	120.20
3	A	739	GLU	CA-CB-CG	-5.11	103.89	114.10
3	A	883	VAL	CA-CB-CG2	-5.11	101.72	110.40
5	C	198	VAL	N-CA-C	-5.11	102.59	108.82
6	E	353	ARG	CA-C-N	-5.10	116.18	123.17
6	E	353	ARG	C-N-CA	-5.10	116.18	123.17
9	V	135	LEU	N-CA-C	-5.10	106.89	113.01
4	B	1177	ASN	N-CA-C	-5.10	106.32	112.54
4	B	14	ARG	CD-NE-CZ	-5.10	117.27	124.40
5	D	213	ALA	N-CA-C	-5.09	102.96	111.37
4	B	160	LYS	CA-C-N	-5.09	114.69	122.23
4	B	160	LYS	C-N-CA	-5.09	114.69	122.23
3	A	33	ILE	CB-CG1-CD1	-5.09	103.12	113.80
4	B	764	ARG	N-CA-C	-5.08	103.44	110.35
5	D	198	VAL	N-CA-C	-5.08	102.62	108.82
3	A	676	GLU	N-CA-C	-5.08	105.65	111.14
4	B	440	LYS	CA-C-N	5.08	131.54	122.09
4	B	440	LYS	C-N-CA	5.08	131.54	122.09
9	U	187	GLU	CB-CA-C	5.08	120.09	112.31
3	A	682	LEU	CA-CB-CG	-5.08	98.53	116.30
6	E	433	ALA	N-CA-C	-5.08	107.07	113.77
3	A	497	VAL	CG1-CB-CG2	-5.08	99.63	110.80
10	Y	170	ILE	CA-C-N	-5.07	114.53	122.95
10	Y	170	ILE	C-N-CA	-5.07	114.53	122.95
4	B	672	VAL	N-CA-C	5.07	114.08	106.42
4	B	818	LEU	CA-CB-CG	5.07	134.04	116.30
3	A	840	VAL	CA-CB-CG1	-5.07	101.78	110.40
3	A	616	THR	OG1-CB-CG2	-5.07	99.16	109.30
3	A	625	GLY	N-CA-C	5.07	125.19	113.18
8	G	198	PHE	N-CA-C	-5.06	103.85	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	334	ASN	N-CA-C	-5.06	105.84	111.36
6	E	257	ARG	N-CA-C	-5.06	98.62	109.81
3	A	293	THR	N-CA-CB	5.05	118.23	110.70
3	A	929	ARG	N-CA-C	-5.05	103.08	111.37
4	B	43	TYR	CA-C-N	-5.05	113.51	120.28
4	B	43	TYR	C-N-CA	-5.05	113.51	120.28
8	G	87	GLN	CA-C-N	-5.05	111.89	121.54
8	G	87	GLN	C-N-CA	-5.05	111.89	121.54
3	A	813	ARG	CG-CD-NE	-5.05	100.89	112.00
3	A	424	PRO	CA-C-N	-5.04	113.73	120.54
3	A	424	PRO	C-N-CA	-5.04	113.73	120.54
3	A	1053	ASN	N-CA-CB	-5.04	101.97	110.49
9	V	170	LEU	CA-CB-CG	5.04	133.94	116.30
9	S	72	LEU	CA-CB-CG	5.04	133.94	116.30
4	B	250	HIS	N-CA-CB	-5.04	101.40	110.37
4	B	9	ASP	CA-C-N	-5.04	111.92	121.54
4	B	9	ASP	C-N-CA	-5.04	111.92	121.54
8	G	377	ARG	CA-CB-CG	-5.04	104.03	114.10
9	V	72	LEU	CA-CB-CG	5.04	133.93	116.30
3	A	804	LEU	CA-CB-CG	-5.03	98.69	116.30
9	T	189	VAL	CA-C-N	-5.03	115.56	123.91
9	T	189	VAL	C-N-CA	-5.03	115.56	123.91
10	X	61	GLY	CA-C-N	-5.03	113.52	122.07
10	X	61	GLY	C-N-CA	-5.03	113.52	122.07
8	G	296	SER	CA-C-N	-5.03	113.81	120.90
8	G	296	SER	C-N-CA	-5.03	113.81	120.90
3	A	703	LEU	CD1-CG-CD2	-5.03	99.74	110.80
6	E	484	GLN	N-CA-C	-5.03	105.32	111.75
4	B	395	GLU	N-CA-C	5.03	121.51	110.80
9	S	84	LEU	CA-C-N	-5.02	115.15	122.68
9	S	84	LEU	C-N-CA	-5.02	115.15	122.68
3	A	385	GLN	N-CA-C	-5.02	102.03	109.96
4	B	1088	SER	CA-C-O	-5.02	114.94	120.36
4	B	619	LEU	CB-CA-C	5.01	117.72	109.90
4	B	1052	ILE	N-CA-C	5.01	116.97	109.20
3	A	685	ASN	CA-C-N	-5.01	114.38	122.25
3	A	685	ASN	C-N-CA	-5.01	114.38	122.25
3	A	751	LEU	N-CA-C	-5.00	101.81	109.41
10	X	101	LEU	N-CA-C	5.00	121.46	110.80
3	A	1042	SER	CB-CA-C	-5.00	100.47	110.42
5	C	174	ARG	CD-NE-CZ	-5.00	117.40	124.40
10	Y	61	GLY	CA-C-N	-5.00	113.57	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	Y	61	GLY	C-N-CA	-5.00	113.57	122.07

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	1	13	DG	C3'
9	T	157	MET	CA

All (337) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	A	1014	GLY	Peptide
3	A	103	ASN	Peptide
3	A	1036	GLU	Peptide
3	A	1040	VAL	Peptide
3	A	1043	ASP	Peptide
3	A	106	THR	Peptide
3	A	1062	PRO	Peptide
3	A	132	GLY	Peptide
3	A	144	SER	Peptide
3	A	148	TYR	Peptide
3	A	150	LYS	Peptide
3	A	153	ILE	Peptide
3	A	179	ARG	Peptide
3	A	183	VAL	Peptide
3	A	240	ARG	Peptide
3	A	244	PRO	Peptide
3	A	257	LEU	Peptide
3	A	26	LEU	Peptide
3	A	261	PHE	Peptide
3	A	262	PHE	Peptide
3	A	263	ASP	Peptide
3	A	268	ASP	Peptide
3	A	27	LEU	Peptide
3	A	271	ARG	Sidechain
3	A	272	VAL	Peptide
3	A	274	ARG	Sidechain
3	A	276	LYS	Peptide
3	A	282	ARG	Sidechain
3	A	286	PRO	Peptide
3	A	291	VAL	Peptide
3	A	294	SER	Peptide

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Mol	Chain	Res	Type	Group
3	A	30	LEU	Peptide
3	A	300	ALA	Peptide
3	A	325	VAL	Peptide
3	A	378	PHE	Peptide
3	A	385	GLN	Peptide
3	A	397	THR	Mainchain
3	A	401	ARG	Sidechain
3	A	404	ALA	Peptide
3	A	423	HIS	Mainchain
3	A	43	GLU	Peptide
3	A	44	GLU	Peptide
3	A	487	ASP	Peptide
3	A	500	ASN	Peptide
3	A	502	TYR	Peptide
3	A	503	ILE	Peptide
3	A	504	ILE	Peptide
3	A	522	GLU	Peptide
3	A	524	VAL	Peptide
3	A	526	TYR	Peptide
3	A	528	ALA	Peptide
3	A	572	PRO	Peptide
3	A	573	LEU	Peptide
3	A	576	THR	Peptide
3	A	578	LEU	Peptide
3	A	592	SER	Peptide
3	A	607	ARG	Sidechain,Peptide
3	A	611	SER	Peptide
3	A	613	GLN	Peptide
3	A	614	LEU	Peptide
3	A	616	THR	Peptide
3	A	622	THR	Peptide
3	A	633	GLN	Peptide
3	A	663	VAL	Peptide
3	A	675	THR	Peptide
3	A	698	TYR	Sidechain,Peptide
3	A	699	GLU	Peptide
3	A	700	ASP	Peptide
3	A	722	TYR	Peptide
3	A	728	GLN	Peptide
3	A	739	GLU	Peptide
3	A	740	ILE	Peptide
3	A	752	ASP	Peptide

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Mol	Chain	Res	Type	Group
3	A	754	GLN	Peptide
3	A	770	VAL	Peptide
3	A	784	GLU	Peptide
3	A	813	ARG	Sidechain
3	A	825	GLY	Mainchain
3	A	827	GLU	Peptide
3	A	841	ALA	Peptide
3	A	861	ILE	Peptide
3	A	863	SER	Peptide
3	A	865	ILE	Peptide
3	A	884	LEU	Peptide
3	A	895	VAL	Peptide
3	A	898	VAL	Peptide
3	A	932	VAL	Mainchain
3	A	936	LEU	Peptide
3	A	991	HIS	Sidechain
4	B	1004	THR	Peptide
4	B	1006	ASP	Peptide
4	B	1032	ARG	Peptide
4	B	1051	VAL	Peptide
4	B	1055	ASN	Peptide
4	B	1105	GLY	Peptide
4	B	1149	THR	Peptide
4	B	1154	ILE	Peptide
4	B	1155	ASP	Peptide
4	B	1170	LEU	Peptide
4	B	1243	ARG	Sidechain
4	B	138	ARG	Sidechain
4	B	163	PHE	Peptide
4	B	183	LEU	Peptide
4	B	229	SER	Peptide
4	B	249	ILE	Mainchain
4	B	261	ASN	Peptide
4	B	269	ALA	Peptide
4	B	281	VAL	Peptide
4	B	282	VAL	Peptide
4	B	287	THR	Peptide
4	B	349	VAL	Peptide
4	B	354	ASP	Peptide
4	B	355	GLY	Peptide
4	B	360	PRO	Peptide
4	B	366	ARG	Sidechain,Peptide

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Mol	Chain	Res	Type	Group
4	B	372	HIS	Peptide
4	B	394	SER	Peptide
4	B	404	VAL	Peptide
4	B	41	PHE	Peptide
4	B	426	GLU	Peptide
4	B	441	ALA	Peptide
4	B	463	LYS	Peptide
4	B	51	ILE	Peptide
4	B	514	LYS	Peptide
4	B	515	LEU	Peptide
4	B	517	THR	Peptide
4	B	534	THR	Peptide
4	B	538	GLU	Peptide
4	B	54	ASP	Peptide
4	B	548	GLN	Peptide
4	B	550	THR	Peptide
4	B	553	VAL	Peptide
4	B	559	ARG	Sidechain
4	B	561	ASN	Peptide
4	B	579	GLY	Peptide
4	B	586	GLN	Peptide
4	B	588	VAL	Peptide
4	B	59	PRO	Peptide
4	B	6	ARG	Sidechain
4	B	600	THR	Peptide
4	B	602	GLY	Peptide
4	B	610	GLU	Peptide
4	B	611	VAL	Peptide
4	B	616	LYS	Peptide
4	B	619	LEU	Peptide
4	B	621	TYR	Peptide
4	B	674	VAL	Peptide
4	B	687	LYS	Peptide
4	B	689	GLY	Peptide
4	B	695	ASP	Peptide
4	B	699	ALA	Peptide
4	B	702	GLY	Peptide
4	B	703	ARG	Peptide
4	B	713	GLU	Peptide
4	B	730	SER	Peptide
4	B	732	GLU	Peptide
4	B	737	LEU	Peptide

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Mol	Chain	Res	Type	Group
4	B	739	ARG	Sidechain
4	B	740	PRO	Peptide
4	B	787	GLY	Mainchain
4	B	795	LEU	Peptide
4	B	807	HIS	Peptide
4	B	818	LEU	Peptide
4	B	85	ILE	Peptide
4	B	857	LEU	Peptide
4	B	859	VAL	Peptide
4	B	86	THR	Peptide
4	B	929	ALA	Peptide
4	B	961	ASN	Peptide
4	B	975	SER	Peptide
4	B	988	VAL	Peptide
5	C	113	ASP	Peptide
5	C	141	ARG	Sidechain
5	C	179	SER	Peptide
5	C	184	ARG	Sidechain
5	C	191	LYS	Peptide
5	C	192	ASP	Peptide
5	C	195	LEU	Peptide
5	C	196	LEU	Peptide
5	C	197	GLU	Peptide
5	C	199	TRP	Peptide
5	C	4	PHE	Peptide
5	C	41	ARG	Sidechain
5	C	42	ARG	Sidechain,Peptide
5	C	45	LEU	Peptide
5	C	46	SER	Peptide
5	C	51	THR	Mainchain
5	C	67	THR	Peptide
5	C	68	VAL	Peptide
5	C	81	ARG	Sidechain
5	C	86	ILE	Peptide
5	C	9	VAL	Peptide
5	D	113	ASP	Peptide
5	D	141	ARG	Sidechain
5	D	155	ARG	Sidechain
5	D	171	MET	Mainchain
5	D	197	GLU	Peptide
5	D	199	TRP	Peptide
5	D	215	GLY	Peptide

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Mol	Chain	Res	Type	Group
5	D	4	PHE	Peptide
5	D	53	VAL	Peptide
5	D	67	THR	Peptide
5	D	68	VAL	Peptide
5	D	81	ARG	Sidechain
5	D	86	ILE	Peptide
5	D	9	VAL	Peptide
6	E	116	TRP	Peptide
6	E	117	TYR	Peptide
6	E	147	VAL	Mainchain
6	E	149	SER	Mainchain
6	E	237	THR	Peptide
6	E	249	ILE	Mainchain
6	E	257	ARG	Peptide,Mainchain
6	E	278	ARG	Peptide
6	E	287	ALA	Mainchain
6	E	31	PRO	Peptide
6	E	318	ARG	Peptide
6	E	34	GLN	Peptide
6	E	382	GLU	Peptide,Mainchain
6	E	412	ASP	Sidechain
6	E	415	VAL	Peptide
6	E	43	GLU	Peptide
6	E	457	HIS	Mainchain
6	E	460	VAL	Peptide,Mainchain
6	E	461	CYS	Peptide
6	E	54	MET	Peptide
6	E	543	MET	Mainchain
6	E	584	ARG	Peptide
6	E	592	ARG	Sidechain
6	E	593	VAL	Peptide
6	E	79	VAL	Peptide
6	E	80	ARG	Sidechain
6	E	85	VAL	Peptide
6	E	88	ARG	Peptide
6	E	92	GLU	Peptide
6	E	94	THR	Peptide
7	F	28	ARG	Sidechain
7	F	30	ARG	Mainchain
7	F	42	ARG	Sidechain,Peptide
7	F	61	ALA	Mainchain
8	G	108	ALA	Peptide

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Mol	Chain	Res	Type	Group
8	G	115	ARG	Sidechain
8	G	120	LEU	Peptide
8	G	190	GLY	Peptide
8	G	193	ARG	Peptide
8	G	194	ALA	Peptide
8	G	197	LYS	Peptide
8	G	204	TYR	Mainchain
8	G	221	ALA	Peptide
8	G	223	ALA	Peptide
8	G	226	SER	Peptide
8	G	294	GLU	Mainchain
8	G	300	ASP	Peptide
8	G	301	PHE	Sidechain
8	G	302	ILE	Peptide
8	G	306	GLY	Peptide
8	G	348	MET	Peptide
8	G	349	LYS	Peptide
8	G	350	THR	Peptide
8	G	361	THR	Peptide
8	G	363	GLU	Peptide
8	G	378	HIS	Peptide
8	G	85	TYR	Sidechain
8	G	86	LEU	Peptide
9	S	125	SER	Peptide
9	S	14	GLU	Mainchain
9	S	178	ALA	Peptide
9	S	183	VAL	Peptide
9	S	247	LEU	Peptide
9	S	251	ARG	Peptide
9	S	252	LEU	Peptide
9	S	253	ASP	Peptide
9	S	257	ALA	Peptide
9	S	264	SER	Peptide
9	S	84	LEU	Mainchain
9	T	120	GLN	Peptide
9	T	122	ARG	Peptide
9	T	195	VAL	Mainchain
9	T	201	GLY	Peptide
9	T	212	ARG	Peptide
9	T	214	GLU	Peptide
9	T	217	LEU	Peptide
9	T	57	THR	Peptide

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Mol	Chain	Res	Type	Group
9	U	139	LEU	Peptide
9	U	143	ALA	Peptide
9	U	182	ARG	Mainchain
9	U	191	TYR	Peptide
9	U	192	PRO	Peptide
9	U	196	PHE	Peptide
9	U	254	PRO	Peptide
9	U	259	ARG	Peptide
9	U	284	ARG	Sidechain,Peptide
9	U	285	LEU	Peptide
9	U	57	THR	Peptide
9	U	84	LEU	Mainchain
9	V	147	ASN	Peptide
9	V	148	ASN	Peptide
9	V	159	VAL	Peptide
9	V	161	VAL	Peptide
9	V	174	ASN	Peptide
9	V	203	GLN	Peptide
9	V	206	VAL	Mainchain
9	V	240	ALA	Peptide
9	V	57	THR	Mainchain
9	V	96	ALA	Peptide
9	V	97	ILE	Peptide
9	V	99	SER	Peptide
10	X	115	ASN	Peptide
10	X	200	LYS	Mainchain
10	X	36	PHE	Peptide
10	X	43	ARG	Peptide
10	X	50	GLY	Peptide
10	X	52	VAL	Peptide
10	X	57	VAL	Peptide
10	X	61	GLY	Peptide
10	X	72	ASN	Peptide
10	X	94	ALA	Peptide
10	Y	115	ASN	Peptide
10	Y	139	THR	Peptide
10	Y	144	ASP	Peptide
10	Y	168	ILE	Peptide
10	Y	211	THR	Peptide
10	Y	36	PHE	Peptide
10	Y	50	GLY	Peptide
10	Y	52	VAL	Peptide

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Mol	Chain	Res	Type	Group
10	Y	57	VAL	Peptide
10	Y	61	GLY	Peptide
10	Y	72	ASN	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	2302	0	1264	198	0
2	2	1967	0	1095	162	0
3	A	8473	0	8479	3587	0
4	B	9292	0	9455	3621	0
5	C	1762	0	1773	722	0
5	D	1762	0	1773	640	0
6	E	4918	0	4980	1907	0
7	F	474	0	477	202	0
8	G	2600	0	2686	962	0
9	S	2389	0	2464	941	0
9	T	2320	0	2397	1240	0
9	U	2320	0	2396	1105	0
9	V	2389	0	2459	1176	0
10	X	1540	0	1616	491	0
10	Y	1540	0	1616	515	0
All	All	46048	0	44930	16445	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 181.

All (16445) 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)
9:T:196:PHE:CE2	9:T:200:TYR:CD1	1.77	1.73
4:B:481:TRP:CD1	4:B:971:PRO:HB3	1.26	1.68
9:T:202:MET:CA	9:T:205:LEU:CD2	1.75	1.65
10:Y:150:VAL:CG1	10:Y:218:LEU:HD13	1.27	1.64
9:T:175:HIS:CE1	9:T:177:LEU:CB	1.80	1.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:105:TYR:CE1	6:E:250:PRO:HA	1.14	1.64
8:G:206:PHE:HD1	8:G:210:ALA:CB	0.99	1.62
9:V:292:HIS:CD2	9:V:296:LEU:HD11	1.19	1.62
4:B:852:SER:H	4:B:877:LEU:CD2	1.03	1.62
5:D:90:TYR:CD2	9:U:155:ARG:CD	1.80	1.62
5:D:90:TYR:CD2	9:U:155:ARG:HD3	1.28	1.61
8:G:206:PHE:CD1	8:G:210:ALA:HB2	1.18	1.61
8:G:329:LEU:CD1	8:G:334:ARG:HB2	1.25	1.61
3:A:875:PRO:HG3	3:A:960:TYR:CE2	1.36	1.60
9:V:146:MET:CG	9:V:274:ARG:HA	1.20	1.60
6:E:346:ARG:HH11	6:E:350:LEU:CD2	0.97	1.60
8:G:329:LEU:HD11	8:G:334:ARG:CB	1.24	1.60
9:S:278:MET:HB3	9:S:294:TRP:CZ2	1.34	1.60
9:U:172:ALA:HB2	9:U:175:HIS:CE1	1.14	1.60
9:T:189:VAL:HG11	9:T:193:GLN:CG	1.20	1.59
9:U:296:LEU:HG	9:U:301:ILE:CG1	1.22	1.59
4:B:880:GLU:HG2	4:B:901:ARG:CD	1.12	1.59
6:E:105:TYR:CD1	6:E:250:PRO:HA	1.34	1.59
3:A:63:LEU:CD2	3:A:356:ALA:HB1	1.13	1.59
4:B:1207:PHE:C	4:B:1220:LEU:HD13	1.22	1.58
3:A:427:TYR:CD2	3:A:511:ARG:NH1	1.69	1.58
3:A:993:ARG:CD	3:A:1012:GLN:HA	1.33	1.58
4:B:1207:PHE:CA	4:B:1220:LEU:HD13	1.25	1.58
4:B:896:ARG:HD3	4:B:986:ASP:CA	1.32	1.58
5:C:57:ARG:CG	5:C:139:GLU:HG3	1.34	1.58
8:G:141:LEU:HA	8:G:144:PHE:CE2	1.35	1.58
4:B:540:ILE:CG2	4:B:833:VAL:HG11	1.21	1.57
4:B:1126:GLN:CA	4:B:1136:ILE:HD11	1.28	1.57
9:T:180:TYR:CB	9:T:188:LEU:HD22	1.17	1.57
9:S:146:MET:SD	9:S:205:LEU:HB2	1.43	1.57
9:S:200:TYR:CE2	9:S:202:MET:HB2	1.40	1.57
4:B:235:LEU:HD11	4:B:239:LEU:CD1	1.35	1.56
9:T:45:LEU:CD2	9:T:59:GLY:HA2	1.32	1.56
3:A:1055:ILE:HD12	6:E:387:PHE:CE1	1.37	1.56
4:B:359:LEU:CA	4:B:386:ILE:HD12	1.28	1.56
8:G:107:ILE:HG13	8:G:200:HIS:CE1	1.40	1.56
3:A:516:PHE:CZ	4:B:157:LEU:N	1.70	1.56
4:B:1126:GLN:CB	4:B:1136:ILE:HD11	1.32	1.56
9:T:146:MET:HE1	9:T:205:LEU:CB	1.12	1.55
9:V:9:PHE:HA	9:V:12:ILE:CG2	1.33	1.55
9:S:4:GLU:HB3	9:S:27:VAL:CG2	1.32	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:362:ILE:CD1	6:E:454:ILE:HG13	1.32	1.55
9:S:126:LEU:CD1	9:S:145:VAL:HG21	1.35	1.55
9:T:156:ASP:HB2	9:T:291:LYS:CG	1.15	1.54
9:U:288:PRO:HB3	9:U:291:LYS:CE	1.34	1.54
5:C:72:ARG:HD2	5:C:129:THR:CG2	1.33	1.54
6:E:362:ILE:HD13	6:E:454:ILE:CG1	1.33	1.54
9:U:278:MET:HE1	9:U:294:TRP:CA	1.15	1.53
4:B:214:CYS:SG	4:B:295:CYS:HB3	1.47	1.53
3:A:402:LEU:HD23	3:A:447:LEU:CD1	1.34	1.53
6:E:444:PHE:CE1	6:E:493:ALA:CB	1.86	1.52
9:S:126:LEU:HD11	9:S:145:VAL:CG2	1.26	1.52
9:T:98:HIS:CE1	9:T:196:PHE:HE1	1.27	1.52
4:B:479:LEU:HB2	4:B:481:TRP:CH2	1.41	1.52
9:U:172:ALA:CB	9:U:175:HIS:CE1	1.87	1.52
6:E:444:PHE:CE1	6:E:493:ALA:HB2	0.99	1.52
9:T:157:MET:HG3	9:T:294:TRP:CH2	1.42	1.52
4:B:880:GLU:CG	4:B:901:ARG:CD	1.88	1.51
9:S:97:ILE:HD11	9:S:202:MET:SD	1.46	1.51
4:B:157:LEU:HD23	4:B:174:ILE:CD1	1.33	1.51
9:S:168:GLU:HB2	9:S:247:LEU:CD2	1.38	1.51
9:S:98:HIS:NE2	9:S:229:PHE:HE2	1.03	1.50
9:S:112:PHE:HB2	9:S:293:PHE:CE1	1.43	1.50
9:U:40:GLU:HG3	9:U:46:GLU:CG	1.39	1.50
9:T:156:ASP:CB	9:T:291:LYS:HG2	1.04	1.50
3:A:516:PHE:CZ	4:B:157:LEU:HB2	1.45	1.50
4:B:813:ALA:HA	4:B:834:ILE:CD1	1.36	1.50
4:B:540:ILE:HG22	4:B:833:VAL:CG1	1.39	1.49
9:S:200:TYR:CE2	9:S:202:MET:CB	1.91	1.49
3:A:516:PHE:CZ	4:B:157:LEU:CB	1.90	1.49
9:T:175:HIS:CE1	9:T:177:LEU:HB2	1.00	1.49
9:U:296:LEU:CD2	9:U:301:ILE:HG12	1.43	1.49
9:T:157:MET:CG	9:T:157:MET:SD	2.01	1.49
9:V:196:PHE:CD1	9:V:224:ASN:HA	1.44	1.49
9:T:146:MET:SD	9:T:205:LEU:HD22	1.51	1.49
9:U:243:PRO:HD2	9:U:274:ARG:CD	1.35	1.48
4:B:1126:GLN:HA	4:B:1136:ILE:CD1	1.42	1.48
9:S:105:LEU:HD13	9:S:108:VAL:CG2	1.44	1.48
3:A:539:THR:HG23	3:A:561:ARG:NH2	1.15	1.48
4:B:33:ALA:CB	4:B:37:LYS:NZ	1.74	1.47
9:T:194:VAL:CG2	9:T:217:LEU:HD11	1.41	1.47
9:T:45:LEU:CD1	9:T:62:ARG:HB3	1.42	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:296:LEU:CG	9:U:301:ILE:HG12	1.44	1.47
9:T:171:THR:HG23	9:T:175:HIS:ND1	1.25	1.47
3:A:53:PHE:CE1	3:A:265:LYS:HG2	1.45	1.47
4:B:37:LYS:HD2	6:E:509:PRO:CG	1.44	1.47
6:E:346:ARG:NH1	6:E:350:LEU:HD22	1.20	1.46
9:S:98:HIS:NE2	9:S:229:PHE:CE2	1.81	1.46
4:B:195:TYR:HA	4:B:198:ARG:CD	1.44	1.46
4:B:330:LEU:HB2	4:B:1011:LEU:CD1	1.44	1.46
4:B:479:LEU:HB2	4:B:481:TRP:CZ2	1.48	1.46
9:U:45:LEU:CD1	9:U:62:ARG:HB2	1.40	1.46
3:A:463:PHE:CD2	3:A:481:THR:HG23	1.50	1.46
9:U:45:LEU:CD1	9:U:62:ARG:CB	1.91	1.46
10:Y:179:ILE:HD11	10:Y:190:VAL:CA	1.45	1.46
4:B:33:ALA:HB1	4:B:37:LYS:CE	1.45	1.45
9:U:12:ILE:HG21	9:U:36:ILE:CD1	1.45	1.45
9:T:146:MET:CE	9:T:205:LEU:HB3	1.42	1.45
9:S:126:LEU:HD13	9:S:131:ALA:CB	1.45	1.45
9:U:154:GLY:C	9:U:155:ARG:N	1.73	1.45
9:V:97:ILE:HB	9:V:274:ARG:NH1	1.30	1.45
10:X:78:LEU:CD2	10:X:88:ARG:HG2	1.47	1.45
3:A:516:PHE:HZ	4:B:157:LEU:CA	1.29	1.44
9:V:203:GLN:NE2	9:V:207:GLN:N	1.60	1.44
8:G:141:LEU:HA	8:G:144:PHE:CZ	1.52	1.43
9:T:170:LEU:HD12	9:T:233:VAL:CG2	1.44	1.43
9:V:146:MET:HG2	9:V:274:ARG:CA	1.46	1.43
9:U:243:PRO:CD	9:U:274:ARG:HD2	1.45	1.43
3:A:449:THR:CG2	3:A:535:VAL:HG22	1.46	1.43
8:G:282:LEU:CD1	8:G:283:PRO:HD2	1.45	1.43
10:Y:77:VAL:HG21	10:Y:129:ARG:NE	1.34	1.43
4:B:37:LYS:CE	6:E:509:PRO:CD	1.97	1.43
9:T:45:LEU:HD13	9:T:62:ARG:CB	1.45	1.43
9:V:202:MET:SD	9:V:205:LEU:HD23	1.59	1.43
4:B:1207:PHE:HA	4:B:1220:LEU:CD1	1.49	1.43
9:T:180:TYR:CA	9:T:188:LEU:CD2	1.91	1.43
9:T:189:VAL:CG1	9:T:193:GLN:CG	1.94	1.43
9:V:160:GLU:N	9:V:278:MET:HG2	1.32	1.43
3:A:1073:LEU:HD11	6:E:338:ILE:CD1	1.48	1.42
9:U:172:ALA:HB2	9:U:175:HIS:ND1	1.25	1.42
9:U:296:LEU:CG	9:U:301:ILE:CG1	1.96	1.42
1:1:50:DA:H2"	1:1:51:DT:C7	1.46	1.42
4:B:37:LYS:CD	6:E:509:PRO:CG	1.95	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:281:ASN:HB3	6:E:285:ARG:NH1	1.26	1.42
9:S:243:PRO:CB	9:S:274:ARG:HH22	1.32	1.42
9:T:205:LEU:CD1	9:T:206:VAL:HG23	1.48	1.42
6:E:420:GLU:HB2	6:E:448:LEU:CD2	1.49	1.42
9:S:263:ASN:ND2	9:S:265:ALA:HB2	1.19	1.42
9:U:204:ARG:HA	9:U:207:GLN:CG	1.47	1.42
9:V:97:ILE:CG2	9:V:202:MET:SD	2.06	1.42
3:A:1073:LEU:CD1	6:E:338:ILE:HD13	1.47	1.41
4:B:489:ASN:HB2	4:B:895:ARG:NH2	1.16	1.41
9:S:196:PHE:HB3	9:S:203:GLN:NE2	1.24	1.41
10:Y:212:VAL:CG1	10:Y:218:LEU:HD23	1.46	1.41
3:A:516:PHE:HZ	4:B:157:LEU:N	0.95	1.41
4:B:813:ALA:CA	4:B:834:ILE:HD11	1.48	1.41
4:B:77:GLU:HG2	4:B:90:ARG:NH1	1.09	1.41
4:B:481:TRP:NE1	4:B:971:PRO:CB	1.84	1.41
10:Y:47:LEU:HB2	10:Y:75:PHE:CD2	1.53	1.41
4:B:851:GLY:HA3	4:B:877:LEU:CD1	1.47	1.41
5:C:72:ARG:CD	5:C:129:THR:HG21	1.49	1.41
9:S:98:HIS:CD2	9:S:229:PHE:HE2	1.37	1.41
9:U:288:PRO:CA	9:U:291:LYS:HG2	1.51	1.40
4:B:27:ALA:CB	7:F:19:GLU:HG3	1.50	1.40
6:E:78:ARG:NE	8:G:348:MET:HE2	1.35	1.40
9:V:167:ILE:CG2	9:V:241:LEU:HD11	1.51	1.40
5:C:57:ARG:HB2	5:C:139:GLU:CG	1.52	1.40
9:S:278:MET:HB3	9:S:294:TRP:CE2	1.55	1.40
3:A:993:ARG:NE	3:A:1012:GLN:HA	1.33	1.40
9:U:172:ALA:HB3	9:U:175:HIS:CG	1.56	1.40
9:V:146:MET:HE2	9:V:274:ARG:CZ	1.52	1.40
4:B:852:SER:N	4:B:877:LEU:HD21	1.36	1.39
4:B:1207:PHE:CA	4:B:1220:LEU:CD1	1.99	1.39
9:T:196:PHE:HE2	9:T:200:TYR:CE1	1.40	1.39
9:U:278:MET:CE	9:U:294:TRP:HA	0.91	1.39
9:T:202:MET:CA	9:T:205:LEU:HD21	1.41	1.39
9:U:296:LEU:CD1	9:U:300:ASN:HB3	1.53	1.39
9:V:292:HIS:CD2	9:V:296:LEU:CD1	2.04	1.38
4:B:299:TYR:CE1	4:B:1139:LYS:HD2	1.57	1.38
6:E:444:PHE:CD1	6:E:493:ALA:HB2	1.58	1.38
9:U:208:GLU:O	9:U:212:ARG:CG	1.69	1.38
10:Y:78:LEU:CD2	10:Y:88:ARG:HG2	1.50	1.38
5:D:90:TYR:CE2	9:U:155:ARG:CD	2.04	1.38
9:T:202:MET:C	9:T:205:LEU:HG	1.49	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:77:ALA:HB2	9:V:66:ARG:CD	1.53	1.38
3:A:63:LEU:CD2	3:A:356:ALA:CB	2.00	1.38
6:E:105:TYR:CE1	6:E:250:PRO:CA	2.07	1.38
9:S:243:PRO:HB3	9:S:274:ARG:NH2	1.31	1.38
9:T:180:TYR:CB	9:T:188:LEU:CD2	2.00	1.38
9:T:157:MET:HB2	9:T:294:TRP:CD2	1.57	1.37
4:B:1207:PHE:C	4:B:1220:LEU:CD1	1.96	1.37
6:E:346:ARG:CD	6:E:350:LEU:HD23	1.51	1.37
4:B:524:ARG:NH1	4:B:818:LEU:HD21	1.38	1.37
9:T:98:HIS:CE1	9:T:196:PHE:CE1	2.09	1.36
9:T:109:LEU:HD23	9:T:113:CYS:SG	1.64	1.36
9:U:278:MET:HE1	9:U:294:TRP:N	1.40	1.36
9:S:43:LEU:HD22	9:S:63:LEU:CD1	1.53	1.36
9:U:278:MET:SD	9:U:297:VAL:CG1	2.12	1.36
4:B:37:LYS:CD	6:E:509:PRO:HG3	1.52	1.36
9:V:9:PHE:CA	9:V:12:ILE:HG22	1.53	1.36
1:1:23:DC:N4	9:U:34:ARG:HH22	1.20	1.36
4:B:299:TYR:CG	4:B:1139:LYS:CE	2.08	1.36
5:D:90:TYR:CE2	9:U:155:ARG:HD2	1.60	1.36
6:E:213:ILE:CG2	6:E:217:LYS:HD3	1.54	1.36
9:V:167:ILE:CG2	9:V:209:LYS:HZ1	1.36	1.36
1:1:113:DT:C7	3:A:414:ARG:HG3	1.56	1.35
4:B:896:ARG:CD	4:B:986:ASP:HA	1.55	1.35
9:T:170:LEU:CD1	9:T:233:VAL:HG23	1.53	1.35
4:B:509:VAL:C	4:B:510:LEU:HD12	1.51	1.35
9:U:157:MET:HE2	9:U:159:VAL:CA	1.55	1.35
6:E:105:TYR:CD1	6:E:250:PRO:CA	2.10	1.35
4:B:851:GLY:CA	4:B:877:LEU:HD11	1.56	1.35
4:B:37:LYS:HD2	6:E:509:PRO:CD	1.55	1.34
4:B:1126:GLN:CA	4:B:1136:ILE:CD1	1.98	1.34
5:D:194:LEU:CD2	5:D:196:LEU:HD23	1.54	1.34
9:T:230:ARG:HD2	9:V:249:GLU:OE1	1.20	1.34
10:Y:47:LEU:HB2	10:Y:75:PHE:CE2	1.61	1.34
10:Y:150:VAL:CG1	10:Y:218:LEU:CD1	2.02	1.34
4:B:318:ILE:HD13	6:E:438:ARG:NH1	1.41	1.34
8:G:206:PHE:CD1	8:G:210:ALA:CB	1.86	1.34
9:T:45:LEU:CD2	9:T:59:GLY:CA	2.04	1.34
3:A:993:ARG:NE	3:A:1012:GLN:CA	1.88	1.34
3:A:1055:ILE:CD1	6:E:387:PHE:CE1	2.09	1.34
3:A:1021:GLU:HB2	6:E:441:ILE:CD1	1.58	1.34
4:B:173:ILE:HG22	4:B:177:TYR:CZ	1.62	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:24:ILE:CD1	5:D:195:LEU:HD23	1.58	1.34
9:V:287:ILE:HG22	9:V:288:PRO:CD	1.54	1.34
10:Y:177:GLN:CD	10:Y:190:VAL:HG22	1.52	1.33
3:A:516:PHE:CZ	4:B:157:LEU:CA	2.06	1.33
4:B:489:ASN:HB2	4:B:895:ARG:CZ	1.57	1.33
3:A:727:ARG:NH1	3:A:729:THR:HA	1.38	1.33
4:B:235:LEU:CD1	4:B:239:LEU:CD1	2.07	1.33
9:U:172:ALA:HB3	9:U:175:HIS:CD2	1.64	1.33
9:V:97:ILE:CB	9:V:274:ARG:HH12	1.38	1.33
8:G:141:LEU:CA	8:G:144:PHE:CE2	2.11	1.32
6:E:362:ILE:CG1	6:E:473:MET:HG2	1.59	1.32
4:B:157:LEU:CD2	4:B:174:ILE:HD12	1.56	1.32
9:S:126:LEU:CD1	9:S:131:ALA:HB2	1.58	1.32
9:U:43:LEU:HB3	9:U:46:GLU:OE1	1.23	1.32
9:U:278:MET:CE	9:U:294:TRP:CA	1.74	1.32
9:V:162:LEU:HD21	9:V:278:MET:CE	1.59	1.32
9:U:92:LEU:CB	9:U:290:ILE:HD11	1.60	1.32
9:V:195:VAL:HB	9:V:203:GLN:CD	1.53	1.32
9:V:284:ARG:HH21	9:V:290:ILE:CD1	1.41	1.32
3:A:320:LEU:CB	3:A:483:ASP:OD1	1.78	1.32
3:A:740:ILE:HG22	3:A:801:ASP:OD2	1.20	1.32
9:T:171:THR:CG2	9:T:175:HIS:ND1	1.89	1.32
9:V:167:ILE:CG2	9:V:241:LEU:CD1	2.06	1.32
3:A:762:TRP:CZ2	3:A:811:LYS:HG2	1.63	1.31
4:B:37:LYS:CD	6:E:509:PRO:CD	2.08	1.31
6:E:371:HIS:HD2	6:E:494:SER:CB	1.41	1.31
9:T:180:TYR:HB3	9:T:188:LEU:CD2	1.56	1.31
9:T:209:LYS:NZ	9:T:274:ARG:CA	1.93	1.31
9:U:167:ILE:CD1	9:U:262:ALA:HA	1.60	1.31
9:T:34:ARG:HA	9:T:50:ARG:NH2	1.41	1.31
5:C:72:ARG:CD	5:C:129:THR:CG2	2.06	1.31
5:C:57:ARG:CB	5:C:139:GLU:HG2	1.58	1.31
9:T:230:ARG:HD2	9:V:249:GLU:CD	1.56	1.31
9:U:278:MET:CG	9:U:297:VAL:HG11	1.60	1.31
9:V:146:MET:CG	9:V:274:ARG:HD3	1.60	1.31
4:B:105:LEU:HD21	4:B:143:MET:SD	1.69	1.30
4:B:481:TRP:CD1	4:B:971:PRO:CB	2.13	1.30
5:C:226:ASP:OD2	5:D:214:ALA:HB2	1.24	1.30
9:S:162:LEU:CD1	9:S:276:VAL:HG21	1.61	1.30
9:U:12:ILE:HG23	9:U:18:PHE:CD1	1.65	1.30
4:B:481:TRP:NE1	4:B:971:PRO:HB3	0.98	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:167:LEU:HD22	4:B:171:GLU:OE2	1.23	1.30
4:B:852:SER:N	4:B:877:LEU:CD2	1.87	1.30
4:B:1207:PHE:CD2	4:B:1220:LEU:HD11	1.67	1.30
5:C:57:ARG:CB	5:C:139:GLU:CG	2.08	1.30
6:E:141:TYR:HD1	6:E:304:ARG:NE	1.27	1.30
10:Y:45:TYR:CE2	10:Y:75:PHE:CD2	2.20	1.30
9:T:202:MET:HA	9:T:205:LEU:CG	1.61	1.30
9:T:209:LYS:CD	9:T:212:ARG:HE	1.44	1.30
9:U:278:MET:SD	9:U:297:VAL:HG12	1.68	1.30
4:B:299:TYR:CD2	4:B:1139:LYS:HE2	1.64	1.30
4:B:513:THR:CG2	4:B:515:LEU:HG	1.62	1.30
5:C:72:ARG:CD	5:C:129:THR:CB	2.10	1.30
9:S:251:ARG:HG3	9:S:258:VAL:N	1.42	1.30
4:B:37:LYS:CE	6:E:509:PRO:HD3	1.52	1.29
4:B:37:LYS:CD	6:E:509:PRO:HD3	1.62	1.29
9:S:278:MET:CB	9:S:294:TRP:CZ2	2.15	1.29
10:X:101:LEU:CD2	10:X:103:ALA:H	1.44	1.29
9:T:196:PHE:HE2	9:T:200:TYR:CD1	1.26	1.29
4:B:540:ILE:CD1	4:B:835:LEU:HD13	1.62	1.29
6:E:403:ALA:O	6:E:406:LYS:HG3	1.21	1.29
4:B:390:ARG:O	4:B:391:LYS:HG3	1.23	1.29
4:B:524:ARG:HH12	4:B:818:LEU:CD2	1.46	1.29
4:B:515:LEU:HB2	4:B:872:ALA:O	1.13	1.29
5:C:143:GLU:O	5:C:170:PHE:HE1	1.13	1.29
6:E:420:GLU:CB	6:E:448:LEU:HD22	1.62	1.29
8:G:282:LEU:CG	8:G:283:PRO:HD2	1.63	1.29
3:A:232:GLU:CG	3:A:236:MET:HG3	1.62	1.28
4:B:167:LEU:CD2	4:B:171:GLU:OE2	1.79	1.28
6:E:509:PRO:CA	6:E:513:MET:HE3	1.62	1.28
9:S:142:LEU:HG	9:S:278:MET:CE	1.62	1.28
9:S:200:TYR:HE2	9:S:202:MET:CB	1.35	1.28
9:S:263:ASN:ND2	9:S:265:ALA:CB	1.96	1.28
9:U:135:LEU:CD1	9:U:140:VAL:HG12	1.62	1.28
4:B:1207:PHE:CD2	4:B:1220:LEU:CD1	2.14	1.28
1:1:100:DA:C6	8:G:202:LYS:HE3	1.67	1.28
9:T:196:PHE:CD2	9:T:200:TYR:CD1	2.21	1.28
9:V:146:MET:SD	9:V:274:ARG:HA	1.71	1.28
10:X:182:ALA:O	10:X:183:ILE:HG12	1.20	1.28
1:1:21:DC:O2	2:2:105:DG:N2	1.63	1.28
3:A:740:ILE:CG2	3:A:801:ASP:OD2	1.82	1.28
4:B:360:PRO:CD	4:B:386:ILE:CD1	2.10	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:876:ILE:O	4:B:877:LEU:HG	1.10	1.28
4:B:1163:LEU:CD1	4:B:1166:GLU:HB2	1.62	1.28
9:V:97:ILE:HG22	9:V:202:MET:SD	1.71	1.28
3:A:705:SER:HB2	3:A:871:MET:CE	1.62	1.28
3:A:896:GLY:O	3:A:899:PHE:N	1.65	1.28
9:U:204:ARG:CA	9:U:207:GLN:HG2	1.64	1.28
6:E:509:PRO:HA	6:E:513:MET:CE	1.64	1.27
6:E:191:GLU:O	6:E:194:LEU:HG	1.19	1.27
9:U:45:LEU:HD21	9:U:62:ARG:NE	1.46	1.27
3:A:993:ARG:NH1	3:A:995:THR:O	1.66	1.27
4:B:880:GLU:CG	4:B:901:ARG:HD3	1.55	1.27
9:S:200:TYR:CD2	9:S:202:MET:HB3	1.68	1.27
9:U:167:ILE:HD11	9:U:262:ALA:CA	1.63	1.27
3:A:737:THR:HB	3:A:773:VAL:CG2	1.64	1.27
6:E:419:LEU:O	6:E:423:ILE:HG23	1.31	1.27
9:S:28:THR:O	9:S:32:ILE:HG22	1.33	1.27
9:T:202:MET:HA	9:T:205:LEU:CD2	0.80	1.27
9:T:274:ARG:NH2	9:T:276:VAL:HG12	1.47	1.27
9:U:157:MET:HE2	9:U:159:VAL:N	1.46	1.27
9:U:296:LEU:HD12	9:U:300:ASN:CB	1.64	1.27
9:S:155:ARG:HH22	9:S:158:VAL:CG1	1.48	1.27
9:T:180:TYR:CA	9:T:188:LEU:HD22	1.55	1.27
9:V:167:ILE:HG22	9:V:241:LEU:CD1	1.61	1.27
9:V:280:THR:HG23	9:V:283:ASP:OD2	1.34	1.27
4:B:160:LYS:HD3	4:B:171:GLU:OE1	1.33	1.26
4:B:360:PRO:HD3	4:B:386:ILE:CD1	1.64	1.26
6:E:407:LEU:CD1	6:E:415:VAL:HG23	1.64	1.26
9:T:157:MET:CG	9:T:294:TRP:CH2	2.16	1.26
9:T:209:LYS:NZ	9:T:274:ARG:HA	1.46	1.26
10:Y:105:ILE:O	10:Y:109:GLU:HB2	1.33	1.26
3:A:1018:GLY:O	3:A:1021:GLU:HG2	1.17	1.26
5:D:44:LEU:HD22	5:D:178:TYR:OH	1.30	1.26
6:E:346:ARG:NH1	6:E:350:LEU:CD2	1.79	1.26
9:T:175:HIS:NE2	9:T:177:LEU:HB2	1.47	1.26
4:B:540:ILE:CG2	4:B:833:VAL:CG1	2.02	1.26
4:B:1207:PHE:HB3	4:B:1230:ASP:OD2	1.25	1.26
9:T:156:ASP:CA	9:T:291:LYS:HG2	1.66	1.26
9:T:170:LEU:HD13	9:T:229:PHE:CE2	1.70	1.26
9:T:156:ASP:OD1	9:T:285:LEU:HD23	1.18	1.25
9:U:45:LEU:HD11	9:U:62:ARG:CB	1.53	1.25
4:B:197:THR:O	4:B:201:VAL:HG23	1.26	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:412:ILE:CG2	4:B:424:LEU:HD22	1.66	1.25
9:T:132:LEU:CD1	9:T:279:VAL:HG12	1.65	1.25
6:E:145:TYR:HD1	6:E:187:GLY:O	1.18	1.25
9:S:88:LYS:HB3	9:S:91:GLU:OE2	1.31	1.25
9:V:205:LEU:CD1	9:V:212:ARG:HH22	1.48	1.25
4:B:33:ALA:HB1	4:B:37:LYS:NZ	1.33	1.25
4:B:359:LEU:HA	4:B:386:ILE:CD1	1.67	1.25
4:B:479:LEU:CB	4:B:481:TRP:CH2	2.19	1.25
1:1:50:DA:C2'	1:1:51:DT:H71	1.68	1.24
6:E:145:TYR:CD1	6:E:187:GLY:O	1.90	1.24
9:U:288:PRO:HA	9:U:291:LYS:CG	1.66	1.24
3:A:458:PHE:CE2	3:A:483:ASP:OD2	1.90	1.24
5:D:72:ARG:HD3	5:D:129:THR:CG2	1.66	1.24
9:T:132:LEU:HD11	9:T:279:VAL:CG1	1.66	1.24
9:T:157:MET:CG	9:T:294:TRP:CZ3	2.21	1.24
10:X:145:MET:SD	10:X:183:ILE:HD12	1.78	1.24
4:B:1246:PRO:HB3	4:B:1251:TYR:CE1	1.72	1.24
9:T:171:THR:OG1	9:T:175:HIS:CE1	1.90	1.24
3:A:215:HIS:CE1	3:A:219:PHE:HE2	1.54	1.24
3:A:875:PRO:CG	3:A:960:TYR:CE2	2.21	1.24
3:A:970:ARG:NH2	4:B:49:VAL:HB	1.49	1.24
4:B:33:ALA:O	4:B:37:LYS:CG	1.86	1.24
4:B:509:VAL:O	4:B:510:LEU:CD1	1.86	1.24
6:E:252:ILE:CD1	6:E:334:LEU:HD11	1.68	1.24
9:U:288:PRO:CB	9:U:291:LYS:HE2	1.68	1.24
9:V:15:THR:HB	9:V:20:LYS:CD	1.68	1.24
9:V:287:ILE:CG2	9:V:288:PRO:HD3	1.66	1.24
3:A:199:LEU:CD1	3:A:227:GLY:HA2	1.66	1.23
4:B:195:TYR:CA	4:B:198:ARG:HD3	1.67	1.23
5:C:57:ARG:HG3	5:C:139:GLU:CG	1.67	1.23
9:V:247:LEU:CD1	9:V:251:ARG:CD	2.16	1.23
9:V:247:LEU:CD1	9:V:251:ARG:HD3	1.69	1.23
4:B:853:THR:CG2	4:B:876:ILE:HG22	1.66	1.23
6:E:240:LYS:HD3	6:E:242:GLU:OE2	1.34	1.23
10:X:44:VAL:CG2	10:X:101:LEU:HD13	1.67	1.23
10:X:212:VAL:HG21	10:X:217:THR:CB	1.68	1.23
4:B:33:ALA:CA	4:B:37:LYS:HZ3	1.48	1.23
4:B:157:LEU:CD2	4:B:174:ILE:CD1	2.12	1.23
4:B:355:GLY:HA2	4:B:412:ILE:CD1	1.69	1.23
4:B:356:THR:N	4:B:412:ILE:HD12	1.53	1.23
4:B:1032:ARG:CG	4:B:1078:PRO:HG3	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:138:GLY:CA	9:U:141:ASP:HA	1.67	1.23
3:A:232:GLU:HG3	3:A:236:MET:CG	1.68	1.23
9:T:205:LEU:HD12	9:T:206:VAL:N	1.53	1.23
9:U:206:VAL:CG2	9:U:243:PRO:HG2	1.67	1.23
9:V:292:HIS:NE2	9:V:296:LEU:HD11	1.53	1.23
10:X:105:ILE:O	10:X:109:GLU:HB2	1.33	1.23
3:A:1021:GLU:CB	6:E:441:ILE:HD11	1.68	1.22
4:B:491:PRO:CD	4:B:876:ILE:HD13	1.69	1.22
5:C:57:ARG:CG	5:C:139:GLU:CG	2.18	1.22
5:C:57:ARG:HB3	5:C:162:ASP:OD2	1.29	1.22
9:S:162:LEU:CG	9:S:276:VAL:HG23	1.67	1.22
10:Y:179:ILE:CD1	10:Y:190:VAL:HA	1.69	1.22
3:A:34:GLN:N	3:A:34:GLN:OE1	1.71	1.22
4:B:33:ALA:O	4:B:37:LYS:HG3	1.09	1.22
4:B:33:ALA:C	4:B:37:LYS:HG2	1.64	1.22
5:C:72:ARG:CD	5:C:129:THR:OG1	1.87	1.22
9:T:97:ILE:CG2	9:T:100:LEU:HD13	1.70	1.22
5:C:72:ARG:HD3	5:C:129:THR:CB	1.66	1.22
9:T:45:LEU:HD23	9:T:59:GLY:CA	1.68	1.22
9:T:209:LYS:NZ	9:T:274:ARG:CB	2.01	1.22
6:E:443:ALA:O	6:E:444:PHE:CD1	1.92	1.22
9:T:97:ILE:CG2	9:T:100:LEU:HB2	1.69	1.22
9:V:287:ILE:CG2	9:V:288:PRO:CD	2.15	1.22
3:A:1027:ALA:CB	6:E:438:ARG:HD3	1.68	1.22
9:V:209:LYS:NZ	9:V:241:LEU:HD21	1.55	1.22
1:1:14:DC:C5	9:V:34:ARG:HD2	1.74	1.21
1:1:98:DG:OP1	8:G:197:LYS:NZ	1.70	1.21
4:B:77:GLU:CG	4:B:90:ARG:NH1	2.03	1.21
3:A:90:THR:HG22	3:A:131:ASN:N	1.56	1.21
3:A:166:ILE:HG12	3:A:172:TRP:CG	1.74	1.21
3:A:215:HIS:CE1	3:A:219:PHE:CE2	2.28	1.21
5:C:64:GLU:HG3	5:C:164:LEU:CD2	1.68	1.21
5:D:80:MET:HG2	6:E:534:TYR:CE1	1.76	1.21
9:T:189:VAL:CG1	9:T:193:GLN:HG3	1.63	1.21
9:T:209:LYS:HD3	9:T:212:ARG:NE	1.53	1.21
10:Y:177:GLN:NE2	10:Y:190:VAL:HG22	1.55	1.21
1:1:113:DT:H71	3:A:414:ARG:CG	1.71	1.21
3:A:552:ARG:NH2	3:A:892:ARG:HD3	1.52	1.21
9:T:202:MET:O	9:T:205:LEU:HG	1.09	1.21
9:U:152:THR:O	9:U:153:THR:HG23	1.39	1.21
10:Y:47:LEU:HD12	10:Y:75:PHE:CE2	1.74	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:63:LEU:HD22	3:A:356:ALA:CB	1.62	1.21
3:A:858:ASN:O	3:A:859:LYS:HG3	1.38	1.21
4:B:299:TYR:CG	4:B:1139:LYS:HE3	1.70	1.21
5:D:28:LEU:CD1	5:D:33:GLY:HA3	1.69	1.21
6:E:371:HIS:CD2	6:E:494:SER:CB	2.23	1.21
9:T:156:ASP:CG	9:T:285:LEU:HB3	1.64	1.21
9:U:206:VAL:HG21	9:U:243:PRO:CG	1.71	1.21
10:Y:45:TYR:CD2	10:Y:75:PHE:CG	2.29	1.21
9:U:39:LEU:HD11	9:U:43:LEU:CD1	1.71	1.21
3:A:516:PHE:CE1	4:B:157:LEU:HB2	1.75	1.20
4:B:491:PRO:HD2	4:B:876:ILE:CD1	1.71	1.20
9:U:135:LEU:CD2	9:U:143:ALA:HB2	1.71	1.20
9:V:49:HIS:CE1	9:V:57:THR:HG22	1.74	1.20
4:B:37:LYS:HD2	6:E:509:PRO:CB	1.72	1.20
9:S:162:LEU:CD1	9:S:276:VAL:CG2	2.18	1.20
9:T:105:LEU:HD13	9:T:300:ASN:CG	1.64	1.20
3:A:90:THR:CG2	3:A:131:ASN:H	1.53	1.20
4:B:1037:LYS:HG3	4:B:1052:ILE:CA	1.72	1.20
8:G:309:PRO:O	8:G:309:PRO:CG	1.81	1.20
9:T:157:MET:SD	9:T:281:THR:O	2.00	1.20
6:E:218:GLY:O	6:E:221:ARG:HG2	1.05	1.20
9:T:97:ILE:HG22	9:T:100:LEU:CB	1.69	1.20
9:T:105:LEU:HD11	9:T:296:LEU:CD2	1.70	1.20
9:T:144:ILE:HG22	9:T:162:LEU:CD1	1.70	1.20
9:V:205:LEU:CD1	9:V:272:LEU:HD21	1.70	1.20
3:A:1027:ALA:HB1	4:B:318:ILE:CD1	1.70	1.20
4:B:299:TYR:CG	4:B:1139:LYS:HE2	1.73	1.20
9:U:172:ALA:CB	9:U:175:HIS:ND1	1.91	1.20
9:V:205:LEU:HD11	9:V:272:LEU:CD2	1.70	1.20
9:V:292:HIS:O	9:V:296:LEU:HG	1.42	1.20
4:B:144:ARG:HG3	4:B:161:THR:O	1.39	1.19
4:B:863:ASP:OD2	4:B:866:VAL:HG22	1.40	1.19
4:B:1246:PRO:HB3	4:B:1251:TYR:CD1	1.76	1.19
8:G:89:ILE:CG2	8:G:92:ILE:HD12	1.72	1.19
9:T:45:LEU:HD21	9:T:59:GLY:CA	1.67	1.19
9:T:185:TRP:HB2	9:T:213:LEU:CD2	1.72	1.19
9:U:138:GLY:HA2	9:U:141:ASP:CA	1.69	1.19
3:A:53:PHE:HE1	3:A:265:LYS:CG	1.53	1.19
3:A:166:ILE:HG12	3:A:172:TRP:CD1	1.75	1.19
4:B:852:SER:OG	4:B:877:LEU:HD23	1.37	1.19
9:T:146:MET:CE	9:T:205:LEU:CB	2.07	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:33:ALA:C	4:B:37:LYS:CG	2.16	1.19
4:B:852:SER:CB	4:B:877:LEU:HD23	1.72	1.19
4:B:880:GLU:CG	4:B:901:ARG:HD2	1.62	1.19
5:D:76:LEU:O	5:D:80:MET:HG3	1.37	1.19
6:E:346:ARG:CG	6:E:350:LEU:HD23	1.72	1.19
9:S:98:HIS:CD2	9:S:229:PHE:CE2	2.25	1.19
9:S:162:LEU:HD11	9:S:276:VAL:CG2	1.71	1.19
9:S:251:ARG:CG	9:S:258:VAL:H	1.55	1.19
9:T:163:TYR:N	9:T:301:ILE:CG2	2.05	1.19
9:U:172:ALA:CB	9:U:175:HIS:CG	2.22	1.19
10:Y:150:VAL:HG11	10:Y:218:LEU:CD1	1.68	1.19
4:B:1207:PHE:HD2	4:B:1220:LEU:CD1	1.49	1.19
5:C:141:ARG:NH1	5:C:155:ARG:HB2	1.58	1.19
9:S:81:LEU:HD22	9:S:81:LEU:O	1.37	1.19
9:U:242:LEU:O	9:U:242:LEU:HD12	1.43	1.19
9:U:278:MET:HE1	9:U:293:PHE:C	1.66	1.19
9:V:160:GLU:H	9:V:278:MET:CG	1.53	1.19
9:V:196:PHE:HD1	9:V:224:ASN:CA	1.55	1.19
3:A:705:SER:HB2	3:A:871:MET:SD	1.82	1.19
3:A:826:ASP:HB3	3:A:828:LEU:HD23	1.25	1.19
9:T:156:ASP:OD2	9:T:285:LEU:HB3	1.40	1.19
9:T:167:ILE:CD1	9:T:274:ARG:HD3	1.72	1.19
6:E:420:GLU:HA	6:E:423:ILE:CD1	1.71	1.18
8:G:290:ILE:HG12	8:G:296:SER:HB2	1.19	1.18
9:U:95:ALA:O	9:U:293:PHE:CZ	1.95	1.18
10:X:44:VAL:HG21	10:X:101:LEU:CD1	1.72	1.18
3:A:1073:LEU:CD1	6:E:338:ILE:CD1	2.13	1.18
5:C:41:ARG:HH22	5:C:176:VAL:C	1.52	1.18
9:T:157:MET:HB2	9:T:294:TRP:CE2	1.78	1.18
9:V:49:HIS:CE1	9:V:55:LYS:O	1.96	1.18
4:B:318:ILE:CD1	6:E:438:ARG:NH1	2.04	1.18
4:B:1211:ALA:HA	4:B:1216:THR:HA	1.19	1.18
8:G:125:GLU:OE1	8:G:128:PRO:HB3	1.42	1.18
9:S:168:GLU:CB	9:S:247:LEU:CD2	2.20	1.18
9:U:195:VAL:HG21	9:U:222:GLU:HG2	1.24	1.18
9:V:247:LEU:HD13	9:V:251:ARG:CD	1.70	1.18
6:E:78:ARG:HE	8:G:348:MET:CE	1.56	1.18
6:E:78:ARG:HD3	8:G:347:ARG:HG2	1.26	1.18
9:S:196:PHE:CB	9:S:203:GLN:NE2	2.06	1.18
9:T:249:GLU:OE2	9:V:227:ASP:CG	1.87	1.18
3:A:539:THR:CG2	3:A:561:ARG:NH2	2.06	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:412:ILE:HG23	4:B:424:LEU:CD2	1.73	1.18
4:B:1207:PHE:CB	4:B:1230:ASP:OD2	1.92	1.18
5:C:25:LEU:CD2	5:C:28:LEU:HD21	1.73	1.18
6:E:423:ILE:CD1	6:E:448:LEU:HB2	1.73	1.18
9:S:43:LEU:CD2	9:S:63:LEU:HD13	1.74	1.18
9:T:156:ASP:OD1	9:T:285:LEU:CD2	1.91	1.18
3:A:199:LEU:HD11	3:A:227:GLY:CA	1.73	1.17
4:B:37:LYS:HE3	6:E:509:PRO:CD	1.64	1.17
9:S:196:PHE:HB3	9:S:203:GLN:CD	1.67	1.17
9:U:142:LEU:CD2	9:U:294:TRP:HB2	1.74	1.17
3:A:1027:ALA:CB	4:B:318:ILE:HD11	1.75	1.17
6:E:420:GLU:HA	6:E:423:ILE:CG1	1.74	1.17
9:U:77:ALA:CB	9:V:66:ARG:NE	2.08	1.17
9:V:189:VAL:O	9:V:193:GLN:NE2	1.77	1.17
2:2:64:DA:C6	2:2:65:DA:N6	2.13	1.17
4:B:639:VAL:HG12	4:B:641:LYS:HE2	1.23	1.17
9:V:146:MET:CG	9:V:274:ARG:CA	2.13	1.17
9:V:162:LEU:CD2	9:V:278:MET:CE	2.22	1.17
9:V:167:ILE:HA	9:V:243:PRO:HA	1.27	1.17
4:B:479:LEU:CB	4:B:481:TRP:CZ2	2.27	1.17
3:A:221:LYS:NZ	3:A:225:LYS:HG2	1.58	1.17
3:A:578:LEU:N	3:A:579:GLU:OE1	1.75	1.17
4:B:570:GLN:OE1	4:B:572:PHE:CD2	1.96	1.17
9:T:171:THR:HG23	9:T:175:HIS:CG	1.79	1.17
9:T:183:VAL:CG1	9:T:184:PRO:HD2	1.73	1.17
9:U:142:LEU:HD21	9:U:294:TRP:CB	1.73	1.17
5:C:151:VAL:O	5:C:152:GLU:HG3	1.44	1.16
9:S:161:VAL:HG12	9:S:277:VAL:CG2	1.76	1.16
9:U:167:ILE:CD1	9:U:272:LEU:HB2	1.73	1.16
10:X:137:ILE:HD13	10:Y:137:ILE:HD13	1.22	1.16
6:E:623:LEU:HD12	6:E:624:ALA:N	1.59	1.16
8:G:89:ILE:HG12	8:G:92:ILE:CD1	1.73	1.16
9:T:180:TYR:HA	9:T:188:LEU:CD2	1.62	1.16
9:U:135:LEU:HD13	9:U:140:VAL:CG1	1.73	1.16
9:V:105:LEU:HD12	9:V:109:LEU:HD23	1.27	1.16
3:A:539:THR:CG2	3:A:561:ARG:HH21	1.57	1.16
3:A:1033:THR:O	3:A:1037:LEU:HB2	1.42	1.16
5:D:181:GLU:C	5:D:192:ASP:OD1	1.88	1.16
6:E:379:MET:HE1	6:E:475:VAL:CB	1.75	1.16
9:S:105:LEU:CD1	9:S:108:VAL:HG22	1.75	1.16
9:T:209:LYS:HZ3	9:T:274:ARG:CA	1.53	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:177:GLN:CD	10:Y:190:VAL:CG2	2.18	1.16
3:A:304:LEU:O	3:A:307:LEU:HG	1.40	1.16
4:B:225:MET:CG	4:B:232:LEU:HD22	1.75	1.16
5:C:143:GLU:O	5:C:170:PHE:CE1	1.98	1.16
9:T:167:ILE:HD13	9:T:274:ARG:CD	1.74	1.16
9:U:288:PRO:CB	9:U:291:LYS:CE	2.23	1.16
9:V:193:GLN:CG	9:V:216:THR:OG1	1.94	1.16
10:X:44:VAL:CG2	10:X:101:LEU:CD1	2.21	1.16
9:U:77:ALA:HB1	9:V:66:ARG:NE	1.61	1.16
3:A:449:THR:HG21	3:A:535:VAL:HG22	1.18	1.15
4:B:195:TYR:O	4:B:198:ARG:HG2	1.46	1.15
4:B:374:GLU:C	4:B:416:GLN:NE2	2.03	1.15
9:S:4:GLU:CB	9:S:27:VAL:CG2	2.22	1.15
9:T:177:LEU:CD2	9:T:239:ILE:HD13	1.74	1.15
9:T:183:VAL:HG13	9:T:184:PRO:HD2	1.18	1.15
9:T:202:MET:O	9:T:205:LEU:CG	1.94	1.15
9:U:259:ARG:HD2	9:U:260:PRO:HD3	1.28	1.15
9:V:160:GLU:OE1	9:V:297:VAL:HB	1.45	1.15
3:A:993:ARG:CD	3:A:1012:GLN:CA	2.23	1.15
5:C:42:ARG:CZ	5:D:35:THR:HG23	1.73	1.15
9:T:27:VAL:HG12	9:T:31:THR:OG1	1.45	1.15
5:C:226:ASP:OD2	5:D:214:ALA:CB	1.94	1.15
6:E:561:ASP:HA	6:E:604:GLN:HG3	1.29	1.15
8:G:84:LEU:O	8:G:87:GLN:N	1.78	1.15
8:G:233:VAL:HA	8:G:236:TYR:CE2	1.81	1.15
9:S:32:ILE:CD1	9:S:36:ILE:HD11	1.76	1.15
9:S:169:LEU:HD13	9:S:188:LEU:CD2	1.76	1.15
9:T:171:THR:CG2	9:T:175:HIS:CE1	2.29	1.15
9:V:84:LEU:CD1	9:V:85:ILE:N	2.09	1.15
9:S:180:TYR:HD2	9:S:187:GLU:HG2	1.12	1.15
9:S:228:ALA:HB1	9:U:113:CYS:SG	1.83	1.15
9:T:170:LEU:HD13	9:T:229:PHE:CZ	1.80	1.15
3:A:320:LEU:HB3	3:A:483:ASP:CG	1.72	1.15
3:A:402:LEU:CD2	3:A:447:LEU:CD1	2.24	1.15
3:A:708:LEU:CD2	3:A:846:ILE:HD11	1.74	1.15
4:B:77:GLU:HG2	4:B:90:ARG:CZ	1.77	1.15
4:B:489:ASN:CB	4:B:895:ARG:NH2	2.10	1.15
4:B:1014:ILE:O	4:B:1017:LEU:HG	1.45	1.15
9:S:112:PHE:HB2	9:S:293:PHE:CZ	1.82	1.15
9:S:212:ARG:O	9:S:266:LEU:HD12	1.43	1.15
9:T:229:PHE:HE2	9:T:256:LEU:CD1	1.59	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:296:LEU:O	9:T:296:LEU:HD23	1.45	1.15
9:V:284:ARG:NH2	9:V:290:ILE:CD1	2.09	1.15
3:A:347:ILE:CG2	3:A:351:MET:HG2	1.77	1.14
3:A:1093:ALA:O	3:A:1094:ASP:OD1	1.62	1.14
9:U:105:LEU:HB3	9:U:301:ILE:HG22	1.28	1.14
3:A:970:ARG:HH21	4:B:49:VAL:CB	1.60	1.14
9:S:105:LEU:CD1	9:S:108:VAL:CG2	2.25	1.14
9:T:163:TYR:N	9:T:301:ILE:HG22	1.62	1.14
9:T:293:PHE:CZ	9:T:297:VAL:HG22	1.82	1.14
9:U:145:VAL:HA	9:U:202:MET:HE2	1.18	1.14
9:U:199:GLY:HA2	9:U:207:GLN:NE2	1.60	1.14
9:V:146:MET:HG3	9:V:274:ARG:CD	1.76	1.14
6:E:145:TYR:OH	6:E:167:TRP:CD2	1.96	1.14
9:S:126:LEU:HD12	9:S:127:GLY:O	1.48	1.14
9:U:135:LEU:HD21	9:U:143:ALA:CB	1.78	1.14
4:B:542:ALA:HB3	4:B:833:VAL:HA	1.28	1.14
9:U:12:ILE:CG2	9:U:36:ILE:HD11	1.77	1.14
9:U:45:LEU:HD13	9:U:62:ARG:CB	1.63	1.14
9:V:206:VAL:HG22	9:V:209:LYS:HD3	1.14	1.14
9:V:287:ILE:HG23	9:V:288:PRO:HD3	1.18	1.14
10:Y:47:LEU:HA	10:Y:100:LEU:HG	1.19	1.14
4:B:214:CYS:SG	4:B:295:CYS:CB	2.33	1.14
4:B:1218:ARG:HD2	6:E:122:PRO:CG	1.77	1.14
6:E:398:VAL:HG12	6:E:399:ASN:H	1.07	1.14
9:S:73:GLU:HG3	9:T:66:ARG:HB2	1.22	1.14
9:U:108:VAL:HB	9:U:296:LEU:HD21	1.14	1.14
9:U:296:LEU:CD2	9:U:301:ILE:CG1	2.22	1.14
3:A:466:VAL:H	3:A:525:ASP:HB2	1.12	1.13
5:C:217:LEU:HA	5:C:220:LEU:HG	1.18	1.13
9:S:181:GLU:HG2	9:S:259:ARG:HD2	1.26	1.13
9:T:275:ARG:NH2	9:T:277:VAL:CG2	2.11	1.13
9:U:142:LEU:HD22	9:U:294:TRP:CD1	1.81	1.13
9:U:172:ALA:CB	9:U:175:HIS:NE2	2.11	1.13
10:X:42:GLU:HA	10:X:79:SER:HB3	1.31	1.13
1:1:101:DT:H5"	8:G:204:TYR:CZ	1.82	1.13
4:B:93:LYS:HE3	4:B:376:ALA:H	0.96	1.13
4:B:359:LEU:CA	4:B:386:ILE:CD1	2.23	1.13
5:D:149:ARG:HD2	6:E:549:GLN:HE21	1.00	1.13
9:V:205:LEU:O	9:V:209:LYS:HG3	1.47	1.13
10:Y:212:VAL:HG11	10:Y:218:LEU:HD23	1.22	1.13
5:D:48:LEU:HD21	5:D:171:MET:HG2	1.28	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:217:LEU:HA	5:D:220:LEU:HG	1.18	1.13
9:T:2:ARG:NH2	9:T:39:LEU:HD13	1.62	1.13
9:U:242:LEU:HD21	9:U:246:ALA:HB3	1.24	1.13
10:X:167:GLY:HA3	10:X:213:HIS:HA	1.28	1.13
3:A:387:MET:HG2	3:A:395:GLU:OE2	1.46	1.13
3:A:960:TYR:HA	3:A:967:ALA:HA	1.28	1.13
6:E:346:ARG:HH11	6:E:350:LEU:HD21	1.02	1.13
9:T:151:LEU:O	9:T:152:THR:HG23	1.46	1.13
3:A:83:GLU:HA	3:A:86:ARG:HD3	1.29	1.13
3:A:875:PRO:CG	3:A:960:TYR:HE2	1.56	1.12
3:A:940:ARG:CD	3:A:949:TYR:HB3	1.79	1.12
3:A:1073:LEU:HD12	6:E:338:ILE:HD13	1.18	1.12
4:B:32:MET:SD	6:E:623:LEU:HB3	1.88	1.12
4:B:72:GLU:HA	4:B:418:VAL:HB	1.25	1.13
4:B:853:THR:HG22	4:B:876:ILE:CG2	1.78	1.12
5:D:28:LEU:HD13	5:D:33:GLY:CA	1.79	1.13
8:G:282:LEU:HD12	8:G:283:PRO:HD2	1.29	1.12
9:T:167:ILE:HD13	9:T:274:ARG:HD3	1.24	1.12
9:U:91:GLU:C	9:U:92:LEU:HD12	1.73	1.13
4:B:655:GLU:O	4:B:668:ASN:ND2	1.82	1.12
9:S:155:ARG:NH2	9:S:158:VAL:CG1	2.09	1.12
9:U:206:VAL:CG1	9:U:274:ARG:HH11	1.62	1.12
9:V:84:LEU:O	9:V:287:ILE:HG12	1.47	1.12
9:V:147:ASN:ND2	9:V:155:ARG:HH21	1.45	1.12
3:A:351:MET:HA	3:A:364:LEU:HD13	1.25	1.12
4:B:418:VAL:O	4:B:419:LYS:HG2	1.47	1.12
4:B:454:LYS:HG3	4:B:984:ASP:HB2	1.28	1.12
4:B:1126:GLN:OE1	4:B:1136:ILE:HG12	1.48	1.12
6:E:407:LEU:CD1	6:E:415:VAL:CG2	2.27	1.12
9:T:177:LEU:HD21	9:T:239:ILE:CD1	1.79	1.12
9:U:12:ILE:CG2	9:U:18:PHE:CD1	2.32	1.12
9:U:278:MET:SD	9:U:294:TRP:O	2.06	1.12
9:V:146:MET:SD	9:V:274:ARG:CA	2.36	1.12
9:V:203:GLN:NE2	9:V:206:VAL:C	2.07	1.12
3:A:238:LEU:CD2	3:A:257:LEU:HD11	1.77	1.12
3:A:645:SER:OG	3:A:649:THR:HG22	1.45	1.12
4:B:1151:LYS:HA	4:B:1169:GLU:HA	1.16	1.12
4:B:1218:ARG:CD	6:E:122:PRO:CD	2.27	1.12
5:D:24:ILE:HD12	5:D:195:LEU:HD23	1.30	1.12
6:E:379:MET:HE1	6:E:475:VAL:HB	1.20	1.12
8:G:233:VAL:HG12	8:G:236:TYR:OH	1.46	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:212:ARG:HB2	9:S:267:PRO:HD3	1.15	1.12
9:T:123:VAL:HG21	9:V:223:VAL:CB	1.79	1.12
9:T:209:LYS:NZ	9:T:274:ARG:HB3	1.60	1.12
10:Y:150:VAL:HG13	10:Y:218:LEU:CD1	1.72	1.12
3:A:324:ARG:HD2	3:A:456:TYR:O	1.48	1.12
3:A:463:PHE:HD1	3:A:526:TYR:CD1	1.68	1.12
3:A:1028:PHE:CE1	6:E:438:ARG:NE	2.18	1.12
4:B:672:VAL:HG22	4:B:686:VAL:CG1	1.79	1.12
4:B:1207:PHE:HD2	4:B:1220:LEU:HD12	1.04	1.12
8:G:319:ARG:HH21	8:G:344:ASP:HA	0.99	1.12
9:V:167:ILE:CG2	9:V:209:LYS:NZ	2.12	1.12
3:A:236:MET:CE	3:A:240:ARG:HG3	1.79	1.12
4:B:330:LEU:CD1	4:B:1011:LEU:HD12	1.78	1.12
6:E:609:THR:HG23	6:E:612:ARG:H	1.13	1.12
8:G:185:GLN:NE2	8:G:186:GLU:HG3	1.62	1.12
9:S:108:VAL:CG2	9:S:297:VAL:HG23	1.78	1.12
9:T:98:HIS:HE1	9:T:196:PHE:CE1	1.50	1.12
9:T:230:ARG:CD	9:V:249:GLU:OE1	1.97	1.12
9:U:135:LEU:HD13	9:U:140:VAL:HG12	1.17	1.12
9:V:84:LEU:HD13	9:V:85:ILE:N	1.63	1.12
9:V:232:VAL:HG21	9:V:237:GLU:HB2	1.22	1.12
3:A:32:GLU:HA	3:A:34:GLN:HE22	1.08	1.11
3:A:53:PHE:CE1	3:A:265:LYS:CG	2.26	1.11
3:A:238:LEU:CD2	3:A:257:LEU:CD1	2.28	1.11
3:A:542:ILE:HD12	3:A:545:LEU:HD22	1.29	1.11
5:D:148:TYR:HE1	6:E:547:GLN:HB2	1.07	1.11
6:E:131:MET:CE	6:E:139:ILE:HD11	1.77	1.11
9:T:146:MET:CE	9:T:205:LEU:CD2	2.26	1.11
9:V:206:VAL:CG2	9:V:209:LYS:HD3	1.79	1.11
10:Y:35:PHE:HB2	10:Y:91:HIS:HA	1.18	1.11
3:A:347:ILE:HG22	3:A:351:MET:HG2	1.17	1.11
3:A:463:PHE:HE2	3:A:480:MET:HB2	1.09	1.11
3:A:688:VAL:HG12	3:A:690:TYR:HE1	1.11	1.11
6:E:362:ILE:HD11	6:E:454:ILE:HG13	1.29	1.11
8:G:106:LYS:HE2	8:G:150:ILE:HG22	1.21	1.11
9:S:112:PHE:CB	9:S:293:PHE:CE1	2.33	1.11
9:U:278:MET:SD	9:U:294:TRP:HA	1.91	1.11
9:V:162:LEU:CD2	9:V:278:MET:HE2	1.81	1.11
9:V:232:VAL:HG23	9:V:238:LEU:HD23	1.17	1.11
3:A:63:LEU:HD21	3:A:356:ALA:HB1	1.33	1.11
3:A:200:LYS:HA	3:A:233:GLU:HA	1.26	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:759:ILE:HD11	3:A:817:VAL:CG1	1.80	1.11
6:E:61:ARG:HD3	6:E:89:CYS:SG	1.90	1.11
6:E:218:GLY:O	6:E:221:ARG:CG	1.98	1.11
8:G:114:GLU:HA	8:G:117:ARG:HG3	1.26	1.11
9:S:155:ARG:HH21	9:S:158:VAL:CG2	1.64	1.11
9:T:165:GLU:HG2	9:T:168:GLU:OE2	1.50	1.11
9:T:194:VAL:HG21	9:T:219:ALA:HA	1.31	1.11
9:V:84:LEU:HD12	9:V:85:ILE:HG13	1.24	1.11
10:Y:78:LEU:HD22	10:Y:88:ARG:HG2	1.22	1.11
3:A:607:ARG:HG3	3:A:609:ARG:HB2	1.22	1.11
4:B:768:MET:HA	4:B:797:LEU:HD13	1.26	1.11
5:D:40:LEU:HA	5:D:43:VAL:HB	1.32	1.11
8:G:206:PHE:CG	8:G:210:ALA:HB2	1.84	1.11
9:V:89:GLN:HB2	9:V:287:ILE:HG21	1.33	1.11
3:A:163:ALA:HB3	3:A:175:PHE:HB2	1.30	1.11
3:A:427:TYR:CG	3:A:511:ARG:NH1	2.19	1.11
4:B:37:LYS:HD3	6:E:509:PRO:HG3	1.18	1.11
4:B:283:ARG:HH21	4:B:298:CYS:HB3	1.12	1.11
4:B:1114:LEU:O	4:B:1118:GLN:OE1	1.69	1.11
4:B:1126:GLN:HB2	4:B:1136:ILE:HD11	1.15	1.11
4:B:1225:ILE:HG21	6:E:234:PHE:HE1	0.96	1.11
5:D:183:VAL:HG12	5:D:184:ARG:H	1.14	1.11
9:S:79:GLN:O	9:S:80:GLU:HG3	1.51	1.11
9:S:225:THR:CG2	9:U:123:VAL:O	1.99	1.11
9:T:146:MET:SD	9:T:274:ARG:NE	2.22	1.11
9:T:189:VAL:HG11	9:T:193:GLN:CD	1.75	1.11
9:U:170:LEU:HD23	9:U:246:ALA:O	1.50	1.11
9:V:66:ARG:HG3	9:V:67:ALA:H	1.07	1.11
9:V:287:ILE:HG22	9:V:288:PRO:HD2	1.16	1.11
10:X:35:PHE:HB2	10:X:91:HIS:HA	1.18	1.11
10:X:126:LEU:HD21	10:Y:130:ILE:HG13	1.28	1.11
10:X:126:LEU:HD22	10:Y:126:LEU:CD1	1.80	1.11
1:1:20:DA:C6	2:2:105:DG:O6	2.02	1.10
4:B:225:MET:HG2	4:B:232:LEU:HD22	1.18	1.10
4:B:764:ARG:HA	4:B:807:HIS:CD2	1.85	1.10
4:B:1134:ILE:HG22	4:B:1135:ASP:H	1.04	1.10
6:E:447:ILE:CG2	6:E:449:VAL:HG23	1.81	1.10
9:S:146:MET:SD	9:S:205:LEU:CB	2.37	1.10
10:X:78:LEU:HD22	10:X:88:ARG:HG2	1.17	1.10
10:Y:45:TYR:HD2	10:Y:75:PHE:CB	1.64	1.10
4:B:244:VAL:HG22	4:B:282:VAL:CA	1.81	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1032:ARG:CG	4:B:1078:PRO:CG	2.29	1.10
4:B:1032:ARG:HG2	4:B:1078:PRO:CG	1.81	1.10
4:B:1126:GLN:CB	4:B:1136:ILE:CD1	2.27	1.10
4:B:1218:ARG:HD2	6:E:122:PRO:HG2	1.17	1.10
6:E:80:ARG:NH2	8:G:345:ASP:HB3	1.67	1.10
6:E:362:ILE:HG12	6:E:473:MET:HG2	1.33	1.10
6:E:578:THR:HG22	6:E:584:ARG:CA	1.81	1.10
9:S:136:LYS:HB3	9:S:152:THR:HB	1.23	1.10
3:A:1073:LEU:HD11	6:E:338:ILE:HD12	1.14	1.10
4:B:522:VAL:HA	4:B:862:GLY:HA3	1.21	1.10
6:E:520:LEU:HG	6:E:552:LEU:HD21	1.11	1.10
8:G:89:ILE:HG23	8:G:92:ILE:HD12	1.20	1.10
1:1:20:DA:N1	2:2:105:DG:O6	1.83	1.10
3:A:485:GLU:HG3	3:A:486:ASP:H	1.07	1.10
4:B:15:ASN:O	4:B:18:SER:OG	1.69	1.10
4:B:299:TYR:CD1	4:B:1139:LYS:CE	2.34	1.10
4:B:815:ASP:HB3	4:B:832:LEU:HB3	1.32	1.10
5:D:194:LEU:HD23	5:D:196:LEU:HD23	1.21	1.10
9:S:285:LEU:HB3	9:S:291:LYS:HD3	1.32	1.10
9:T:108:VAL:HG13	9:T:296:LEU:HD11	1.34	1.10
9:V:162:LEU:HD21	9:V:278:MET:HE3	1.33	1.10
10:X:118:LEU:HG	10:X:121:LEU:HD12	1.33	1.10
10:Y:45:TYR:CE2	10:Y:75:PHE:CG	2.39	1.10
3:A:993:ARG:HE	3:A:1012:GLN:C	1.58	1.10
4:B:672:VAL:HG13	4:B:686:VAL:HG22	1.30	1.10
5:C:28:LEU:HD13	5:C:33:GLY:HA3	1.32	1.10
5:C:99:LEU:HD21	5:C:112:PHE:HA	1.12	1.10
8:G:206:PHE:HD1	8:G:210:ALA:HB3	1.16	1.10
9:S:142:LEU:HG	9:S:278:MET:HE1	1.10	1.10
9:V:58:LEU:HG	9:V:61:GLU:CG	1.81	1.10
9:V:167:ILE:HB	9:V:262:ALA:CB	1.82	1.10
3:A:449:THR:HG22	3:A:535:VAL:HG22	1.22	1.09
3:A:940:ARG:HD2	3:A:949:TYR:CB	1.80	1.09
4:B:710:PRO:CD	4:B:722:LEU:HD23	1.81	1.09
4:B:1244:LEU:HG	4:B:1245:ILE:H	1.09	1.09
6:E:398:VAL:HG11	6:E:404:ALA:HA	1.11	1.09
9:S:105:LEU:HD13	9:S:108:VAL:HG21	1.14	1.09
9:U:288:PRO:HB3	9:U:291:LYS:HE3	1.16	1.09
10:X:212:VAL:HG21	10:X:217:THR:HB	1.28	1.09
3:A:238:LEU:HD22	3:A:257:LEU:HD11	1.09	1.09
4:B:12:GLN:HA	4:B:15:ASN:HD21	1.13	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:33:ALA:HB1	4:B:37:LYS:HE2	1.21	1.09
4:B:564:ILE:HG22	4:B:570:GLN:HG3	1.24	1.09
4:B:659:GLU:CD	4:B:666:CYS:HB3	1.75	1.09
9:T:180:TYR:CA	9:T:188:LEU:HD21	1.75	1.09
9:T:205:LEU:HD11	9:T:206:VAL:HG23	1.12	1.09
9:T:288:PRO:HA	9:T:291:LYS:HE3	1.24	1.09
9:U:31:THR:OG1	9:U:34:ARG:NH1	1.84	1.09
9:U:39:LEU:CD1	9:U:43:LEU:HD13	1.81	1.09
9:U:146:MET:H	9:U:202:MET:HG3	0.97	1.09
9:U:297:VAL:HA	9:U:302:PRO:HD3	1.33	1.09
9:V:183:VAL:HB	9:V:261:LEU:HD13	1.30	1.09
3:A:41:PHE:O	3:A:45:GLY:N	1.86	1.09
3:A:199:LEU:HD21	3:A:227:GLY:O	1.52	1.09
4:B:1225:ILE:HG21	6:E:234:PHE:CE1	1.88	1.09
5:D:185:ALA:O	5:D:191:LYS:HG2	1.53	1.09
6:E:419:LEU:HD23	6:E:423:ILE:HG21	1.34	1.09
8:G:218:ILE:HG13	8:G:219:THR:N	1.66	1.09
9:S:46:GLU:HG3	9:S:57:THR:HG21	1.33	1.09
9:V:167:ILE:CB	9:V:262:ALA:HB3	1.81	1.09
9:V:209:LYS:HA	9:V:213:LEU:HB3	1.25	1.09
1:1:113:DT:C5	3:A:414:ARG:HG3	1.87	1.09
3:A:749:ARG:CZ	3:A:749:ARG:HB3	1.68	1.09
4:B:27:ALA:HB2	7:F:19:GLU:HG3	1.18	1.09
4:B:195:TYR:C	4:B:198:ARG:HG2	1.77	1.09
4:B:203:VAL:HG21	4:B:1197:ILE:HB	1.10	1.09
5:C:72:ARG:HD3	5:C:129:THR:OG1	0.93	1.09
6:E:371:HIS:CD2	6:E:494:SER:HB2	1.86	1.09
8:G:107:ILE:CG1	8:G:200:HIS:CE1	2.35	1.09
8:G:339:LEU:HD22	8:G:343:LEU:CG	1.82	1.09
9:S:97:ILE:CD1	9:S:202:MET:SD	2.41	1.09
9:U:12:ILE:CG2	9:U:18:PHE:CE1	2.36	1.09
9:U:77:ALA:CB	9:V:66:ARG:CD	2.31	1.09
9:U:288:PRO:HB3	9:U:291:LYS:HE2	1.15	1.09
9:V:205:LEU:HD11	9:V:272:LEU:HD21	1.13	1.09
3:A:32:GLU:HA	3:A:34:GLN:NE2	1.67	1.09
3:A:235:LEU:CD1	3:A:248:PRO:HB2	1.83	1.09
3:A:703:LEU:HB3	3:A:883:VAL:HG21	1.34	1.09
3:A:904:GLY:O	3:A:907:GLY:N	1.84	1.09
4:B:360:PRO:CD	4:B:386:ILE:HD13	1.80	1.09
4:B:501:GLY:H	4:B:885:ARG:HA	1.11	1.09
4:B:540:ILE:HD11	4:B:835:LEU:HD13	1.23	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:854:GLN:HB2	4:B:875:GLN:HB3	1.31	1.09
6:E:389:ILE:HG22	6:E:405:LYS:HG2	1.34	1.09
9:U:52:ASN:HB3	9:U:55:LYS:HB3	1.35	1.09
9:V:189:VAL:HB	9:V:215:ALA:HA	1.24	1.09
9:V:193:GLN:HG3	9:V:216:THR:OG1	1.52	1.09
1:1:15:DA:C2	2:2:112:DG:N2	2.21	1.08
3:A:184:TRP:HA	3:A:195:ALA:HB2	1.32	1.08
3:A:402:LEU:HD23	3:A:447:LEU:HD12	1.27	1.08
3:A:653:GLN:HA	3:A:672:GLY:HA2	1.10	1.08
4:B:225:MET:HB2	4:B:238:ARG:HH12	0.92	1.08
4:B:880:GLU:HG3	4:B:881:GLY:H	0.93	1.08
4:B:1151:LYS:HD2	4:B:1169:GLU:HB3	1.15	1.08
8:G:319:ARG:NH2	8:G:344:ASP:HA	1.66	1.08
9:T:205:LEU:O	9:T:209:LYS:HG2	1.54	1.08
9:U:92:LEU:HD23	9:U:290:ILE:CD1	1.82	1.08
10:Y:116:PRO:HA	10:Y:119:SER:HB2	1.32	1.08
3:A:63:LEU:HD23	3:A:356:ALA:HB1	1.19	1.08
3:A:232:GLU:HA	3:A:236:MET:HG2	1.09	1.08
3:A:905:TRP:HE1	3:A:909:THR:CG2	1.66	1.08
4:B:33:ALA:HA	4:B:37:LYS:HZ3	1.10	1.08
4:B:157:LEU:HD23	4:B:174:ILE:HD11	1.32	1.08
4:B:1045:GLU:HG3	4:B:1046:ALA:H	1.11	1.08
5:C:72:ARG:HG2	5:C:129:THR:HB	1.12	1.08
8:G:374:ARG:HG2	8:G:377:ARG:HH21	1.14	1.08
9:S:167:ILE:HG21	9:S:209:LYS:HB3	1.26	1.08
9:S:168:GLU:HB2	9:S:247:LEU:HD22	1.16	1.08
9:T:146:MET:SD	9:T:205:LEU:CD2	2.40	1.08
9:T:206:VAL:HG22	9:T:241:LEU:HD12	1.35	1.08
9:V:3:LEU:HD22	9:V:74:TRP:CZ2	1.88	1.08
9:V:248:VAL:HA	9:V:251:ARG:HH21	1.05	1.08
10:Y:212:VAL:HG13	10:Y:218:LEU:HD23	1.31	1.08
1:1:23:DC:N4	9:U:34:ARG:NH2	2.01	1.08
3:A:202:LEU:HD12	3:A:294:SER:HB2	1.32	1.08
3:A:298:LEU:O	3:A:301:VAL:N	1.87	1.08
3:A:1027:ALA:HB3	6:E:438:ARG:HD3	1.09	1.08
4:B:195:TYR:CA	4:B:198:ARG:CD	2.27	1.08
4:B:374:GLU:HB2	4:B:416:GLN:CD	1.77	1.08
5:C:25:LEU:HD22	5:C:28:LEU:HD21	1.11	1.08
5:C:74:ASP:O	5:C:78:ILE:HG12	1.51	1.08
5:D:24:ILE:HD11	5:D:195:LEU:HD23	1.28	1.08
6:E:105:TYR:CD1	6:E:249:ILE:O	2.05	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:420:GLU:HA	6:E:423:ILE:HG12	1.29	1.08
6:E:578:THR:HG22	6:E:584:ARG:HA	1.31	1.08
8:G:235:LEU:CD1	8:G:276:ILE:HG13	1.83	1.08
9:S:88:LYS:O	9:S:91:GLU:HG2	1.52	1.08
9:U:92:LEU:CD2	9:U:290:ILE:CD1	2.30	1.08
9:V:128:SER:HB2	9:V:204:ARG:HD3	1.09	1.08
10:X:126:LEU:HB3	10:Y:126:LEU:HD21	1.31	1.08
3:A:65:LEU:HD12	3:A:351:MET:HE1	1.21	1.08
3:A:458:PHE:CD2	3:A:483:ASP:OD2	2.06	1.08
4:B:146:LEU:CD1	4:B:154:ILE:HD11	1.84	1.08
4:B:498:VAL:HG21	4:B:884:VAL:HG11	1.36	1.08
4:B:834:ILE:HG22	4:B:835:LEU:H	1.13	1.08
4:B:1126:GLN:HA	4:B:1136:ILE:HD13	1.20	1.08
4:B:1225:ILE:CG2	6:E:234:PHE:HE1	1.65	1.08
6:E:213:ILE:HG22	6:E:217:LYS:HD3	1.15	1.08
6:E:608:THR:CB	6:E:612:ARG:HD2	1.82	1.08
9:T:285:LEU:HG	9:T:290:ILE:HG22	1.11	1.08
3:A:663:VAL:HG12	3:A:664:VAL:H	1.14	1.08
3:A:762:TRP:HZ2	3:A:811:LYS:CG	1.65	1.08
6:E:379:MET:HE1	6:E:475:VAL:CG2	1.83	1.08
6:E:389:ILE:HG21	6:E:405:LYS:CD	1.83	1.08
6:E:430:LEU:HB3	6:E:473:MET:CE	1.83	1.08
8:G:337:LEU:HD23	8:G:337:LEU:H	1.15	1.08
9:S:105:LEU:HD13	9:S:108:VAL:HG22	1.25	1.08
9:S:251:ARG:HA	9:S:258:VAL:HB	1.29	1.08
9:U:170:LEU:CD2	9:U:246:ALA:O	2.02	1.08
4:B:173:ILE:CG2	4:B:177:TYR:OH	2.02	1.07
4:B:244:VAL:CG2	4:B:282:VAL:HA	1.84	1.07
4:B:1222:GLU:HG3	6:E:124:TYR:OH	1.52	1.07
5:C:32:GLN:HE22	5:D:43:VAL:HG22	1.15	1.07
5:C:64:GLU:HG3	5:C:164:LEU:HD21	1.30	1.07
5:C:221:PHE:CE1	5:D:36:VAL:HB	1.88	1.07
6:E:131:MET:HE2	6:E:139:ILE:HD11	1.14	1.07
6:E:403:ALA:O	6:E:406:LYS:CG	2.00	1.07
6:E:621:GLU:HA	6:E:625:SER:HA	1.21	1.07
9:S:43:LEU:HD22	9:S:63:LEU:HD13	1.08	1.07
9:S:184:PRO:HA	9:S:213:LEU:HD13	1.32	1.07
9:V:167:ILE:HG22	9:V:209:LYS:HZ1	1.05	1.07
3:A:993:ARG:HD3	3:A:1012:GLN:HA	1.09	1.07
3:A:993:ARG:HD2	3:A:1012:GLN:HG2	1.32	1.07
4:B:24:TYR:HB2	4:B:29:THR:HG21	1.27	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:203:VAL:HG21	4:B:1197:ILE:CB	1.84	1.07
4:B:299:TYR:CD1	4:B:1139:LYS:HD2	1.89	1.07
4:B:509:VAL:O	4:B:510:LEU:HD12	0.90	1.07
5:D:156:GLU:HG2	5:D:163:PHE:CZ	1.88	1.07
6:E:141:TYR:CD1	6:E:304:ARG:NE	2.20	1.07
6:E:346:ARG:HD3	6:E:350:LEU:CD2	1.84	1.07
8:G:270:ILE:O	8:G:273:LEU:N	1.85	1.07
9:S:155:ARG:HH22	9:S:158:VAL:HG13	1.10	1.07
9:T:45:LEU:HD21	9:T:59:GLY:HA2	1.22	1.07
9:T:97:ILE:HG21	9:T:100:LEU:HD13	1.08	1.07
9:T:196:PHE:HD2	9:T:200:TYR:CB	1.66	1.07
9:T:202:MET:CB	9:T:205:LEU:HD21	1.83	1.07
9:U:40:GLU:CG	9:U:46:GLU:HG3	1.83	1.07
9:U:142:LEU:CD1	9:U:278:MET:HE2	1.84	1.07
10:X:101:LEU:HD21	10:X:103:ALA:H	0.97	1.07
3:A:320:LEU:HB2	3:A:483:ASP:OD1	1.53	1.07
4:B:225:MET:HB2	4:B:238:ARG:NH1	1.69	1.07
4:B:355:GLY:HA2	4:B:412:ILE:HD11	1.31	1.07
4:B:357:ILE:O	4:B:410:ILE:HG21	1.53	1.07
6:E:509:PRO:HA	6:E:513:MET:HE1	1.29	1.07
8:G:282:LEU:HG	8:G:283:PRO:HD2	1.34	1.07
9:S:4:GLU:CB	9:S:27:VAL:HG21	1.84	1.07
9:S:249:GLU:OE1	9:S:252:LEU:HD21	1.52	1.07
9:T:196:PHE:CD2	9:T:200:TYR:CG	2.41	1.07
9:U:144:ILE:HD12	9:U:293:PHE:CZ	1.89	1.07
9:U:144:ILE:HG23	9:U:276:VAL:HG11	1.24	1.07
9:U:242:LEU:HD13	9:U:246:ALA:H	1.00	1.07
9:V:247:LEU:CD1	9:V:251:ARG:CG	2.31	1.07
9:V:284:ARG:HH21	9:V:290:ILE:HD13	1.13	1.07
10:X:46:PHE:CD2	10:X:101:LEU:HB2	1.89	1.07
3:A:53:PHE:CZ	3:A:265:LYS:HG2	1.90	1.07
3:A:55:PRO:HA	3:A:66:HIS:ND1	1.70	1.07
3:A:607:ARG:CZ	3:A:607:ARG:HB3	1.56	1.07
4:B:195:TYR:HA	4:B:198:ARG:CG	1.83	1.07
4:B:357:ILE:HB	4:B:410:ILE:HG23	1.37	1.07
6:E:362:ILE:CG1	6:E:473:MET:CG	2.32	1.07
6:E:371:HIS:HD2	6:E:494:SER:HB3	1.16	1.07
8:G:106:LYS:CE	8:G:150:ILE:HG22	1.84	1.07
9:S:169:LEU:HD13	9:S:188:LEU:HD22	1.30	1.07
10:X:44:VAL:HG23	10:X:101:LEU:HD13	1.19	1.07
10:Y:45:TYR:CE2	10:Y:75:PHE:CE2	2.41	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:44:DG:N1	2:2:82:DC:O2	1.86	1.07
3:A:737:THR:N	3:A:773:VAL:HG23	1.69	1.07
3:A:759:ILE:HD11	3:A:817:VAL:HG12	1.12	1.07
4:B:147:MET:O	4:B:154:ILE:HD12	1.54	1.07
4:B:800:GLU:HG2	4:B:801:GLN:H	1.17	1.07
5:C:25:LEU:HD22	5:C:28:LEU:CD2	1.84	1.07
9:T:123:VAL:CG2	9:V:223:VAL:HB	1.84	1.07
9:U:77:ALA:HB2	9:V:66:ARG:HD3	1.30	1.07
3:A:934:GLY:O	3:A:937:GLN:N	1.86	1.06
4:B:563:LEU:HD23	4:B:573:ASN:HA	1.37	1.06
4:B:876:ILE:O	4:B:877:LEU:CG	2.03	1.06
6:E:346:ARG:HD3	6:E:350:LEU:HD23	1.06	1.06
9:S:57:THR:HG23	9:S:58:LEU:H	1.16	1.06
9:T:45:LEU:CD2	9:T:59:GLY:C	2.27	1.06
9:T:167:ILE:HB	9:T:274:ARG:HG2	1.09	1.06
9:U:40:GLU:HA	9:U:46:GLU:OE2	1.54	1.06
10:X:126:LEU:HD22	10:Y:126:LEU:HD11	1.36	1.06
1:1:20:DA:N1	2:2:105:DG:C6	2.22	1.06
1:1:46:DA:H2"	1:1:47:DT:H71	1.35	1.06
3:A:232:GLU:HA	3:A:236:MET:CG	1.85	1.06
3:A:608:VAL:HG13	3:A:635:ILE:HB	1.28	1.06
3:A:1021:GLU:HB2	6:E:441:ILE:HD11	1.22	1.06
4:B:1207:PHE:O	4:B:1220:LEU:HD22	1.54	1.06
4:B:1216:THR:O	4:B:1219:VAL:HG12	1.55	1.06
5:C:48:LEU:HD11	5:C:172:PRO:HD2	1.17	1.06
5:D:99:LEU:HD21	5:D:112:PHE:HA	1.12	1.06
6:E:191:GLU:CG	6:E:194:LEU:HD21	1.86	1.06
6:E:286:LEU:O	6:E:289:LEU:N	1.87	1.06
8:G:112:GLU:N	8:G:112:GLU:OE1	1.87	1.06
9:S:4:GLU:HB3	9:S:27:VAL:HG21	1.10	1.06
9:S:32:ILE:CD1	9:S:36:ILE:CD1	2.31	1.06
9:T:105:LEU:CD1	9:T:296:LEU:HD21	1.84	1.06
9:T:202:MET:HA	9:T:205:LEU:HD23	1.14	1.06
9:V:205:LEU:CD1	9:V:212:ARG:NH2	2.18	1.06
9:V:213:LEU:HD21	9:V:261:LEU:HD21	1.12	1.06
3:A:463:PHE:CE2	3:A:480:MET:HB2	1.89	1.06
4:B:37:LYS:HE2	6:E:509:PRO:HD3	1.37	1.06
4:B:43:TYR:O	4:B:46:ARG:N	1.88	1.06
4:B:1112:HIS:O	4:B:1116:LYS:HG2	1.54	1.06
4:B:1207:PHE:HA	4:B:1220:LEU:HD12	1.37	1.06
5:C:41:ARG:NH2	5:C:176:VAL:O	1.88	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:194:LEU:HA	6:E:197:LEU:HD12	1.29	1.06
9:S:162:LEU:CG	9:S:276:VAL:CG2	2.33	1.06
9:T:156:ASP:CB	9:T:291:LYS:CG	1.94	1.06
9:T:209:LYS:CE	9:T:212:ARG:HH21	1.67	1.06
9:U:45:LEU:HD12	9:U:63:LEU:HB2	1.30	1.06
9:V:296:LEU:HB3	9:V:300:ASN:OD1	1.54	1.06
1:1:113:DT:H71	3:A:414:ARG:NE	1.71	1.06
3:A:166:ILE:CG1	3:A:172:TRP:CG	2.38	1.06
3:A:940:ARG:NE	3:A:949:TYR:HB3	1.69	1.06
3:A:983:VAL:O	3:A:985:LEU:N	1.88	1.06
4:B:457:GLU:HB2	4:B:481:TRP:CZ3	1.91	1.06
5:C:38:ASN:OD1	5:C:39:ALA:N	1.86	1.06
6:E:54:MET:N	6:E:55:ASP:O	1.88	1.06
6:E:398:VAL:CG1	6:E:404:ALA:HA	1.84	1.06
8:G:282:LEU:CD1	8:G:283:PRO:CD	2.33	1.06
8:G:282:LEU:HD12	8:G:283:PRO:CD	1.85	1.06
9:U:278:MET:HE2	9:U:294:TRP:HA	1.07	1.06
9:V:15:THR:HB	9:V:20:LYS:HD2	1.11	1.06
9:V:202:MET:SD	9:V:205:LEU:CD2	2.44	1.06
1:1:20:DA:N6	2:2:105:DG:O6	1.88	1.06
3:A:81:VAL:HG21	3:A:123:THR:CG2	1.86	1.06
3:A:235:LEU:HD11	3:A:248:PRO:HB2	1.06	1.06
4:B:809:ALA:HB3	4:B:834:ILE:HG21	1.37	1.06
6:E:382:GLU:N	6:E:382:GLU:OE1	1.87	1.06
8:G:89:ILE:HG12	8:G:92:ILE:HD11	1.37	1.06
9:S:185:TRP:CE2	9:S:213:LEU:HD12	1.91	1.06
9:S:231:GLY:HA3	9:U:109:LEU:CD1	1.85	1.06
9:T:36:ILE:HG23	9:T:46:GLU:OE2	1.56	1.06
9:T:194:VAL:CG2	9:T:217:LEU:CD1	2.33	1.06
9:V:105:LEU:HD12	9:V:109:LEU:CD2	1.86	1.06
9:V:194:VAL:HG11	9:V:221:LEU:HD11	1.37	1.06
9:V:207:GLN:HG3	9:V:217:LEU:CD1	1.85	1.06
3:A:650:CYS:SG	3:A:717:ILE:HG13	1.94	1.05
4:B:235:LEU:CD1	4:B:239:LEU:HG	1.86	1.05
4:B:603:PHE:O	4:B:631:TRP:HA	1.55	1.05
6:E:488:ARG:HD2	7:F:58:VAL:HG21	1.38	1.05
9:T:157:MET:SD	9:T:294:TRP:CZ3	2.48	1.05
9:T:180:TYR:O	9:T:188:LEU:CD1	2.04	1.05
9:V:205:LEU:HD11	9:V:212:ARG:HH22	1.06	1.05
3:A:101:LEU:HB2	3:A:109:ILE:HA	1.38	1.05
3:A:202:LEU:CD1	3:A:294:SER:CB	2.34	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:507:GLN:HA	3:A:520:THR:HG22	1.36	1.05
4:B:359:LEU:HG	4:B:386:ILE:CG1	1.86	1.05
4:B:441:ALA:O	4:B:999:PHE:N	1.87	1.05
6:E:213:ILE:CG2	6:E:217:LYS:CD	2.34	1.05
6:E:281:ASN:CB	6:E:285:ARG:NH1	2.18	1.05
6:E:444:PHE:HE1	6:E:493:ALA:CA	1.70	1.05
9:S:108:VAL:HG21	9:S:297:VAL:CG2	1.86	1.05
9:S:231:GLY:CA	9:U:109:LEU:HD13	1.85	1.05
9:T:122:ARG:HE	9:T:124:THR:CG2	1.67	1.05
9:T:146:MET:HB2	9:T:274:ARG:HH21	0.99	1.05
9:T:209:LYS:HE3	9:T:212:ARG:HH21	1.13	1.05
9:V:108:VAL:HG21	9:V:301:ILE:HD13	1.06	1.05
9:V:193:GLN:HB3	9:V:210:PHE:CE2	1.91	1.05
10:Y:95:PHE:HE2	10:Y:172:LEU:CD1	1.69	1.05
3:A:36:SER:O	3:A:40:TRP:N	1.88	1.05
4:B:330:LEU:HB2	4:B:1011:LEU:HD12	1.28	1.05
4:B:761:GLN:HE22	4:B:765:SER:HA	1.13	1.05
9:S:180:TYR:CD2	9:S:187:GLU:HG2	1.90	1.05
9:T:241:LEU:HD21	9:T:272:LEU:HD23	1.36	1.05
9:V:7:GLN:HA	9:V:10:LEU:HB3	1.38	1.05
10:Y:150:VAL:HG13	10:Y:218:LEU:HD13	1.08	1.05
3:A:417:PHE:O	3:A:420:ARG:N	1.89	1.05
3:A:762:TRP:CZ2	3:A:811:LYS:CG	2.38	1.05
4:B:5:ASN:HB2	6:E:612:ARG:HD3	1.35	1.05
4:B:27:ALA:HB3	7:F:19:GLU:HG3	1.32	1.05
4:B:52:SER:OG	4:B:55:ASP:N	1.88	1.05
4:B:672:VAL:HG22	4:B:686:VAL:HG13	1.34	1.05
5:C:13:THR:O	5:C:14:GLU:HG3	1.55	1.05
6:E:374:GLY:HA2	6:E:447:ILE:HB	1.38	1.05
6:E:430:LEU:HB3	6:E:473:MET:HE1	1.31	1.05
8:G:232:PRO:O	8:G:236:TYR:CD2	2.08	1.05
9:T:189:VAL:CG1	9:T:193:GLN:CD	2.27	1.05
9:U:40:GLU:CG	9:U:46:GLU:CG	2.35	1.05
9:U:142:LEU:HD22	9:U:280:THR:CA	1.86	1.05
9:U:176:PRO:CG	9:U:239:ILE:HD11	1.86	1.05
1:1:113:DT:H71	3:A:414:ARG:CD	1.86	1.05
3:A:400:ARG:HB2	3:A:447:LEU:HD22	1.07	1.05
3:A:449:THR:CG2	3:A:535:VAL:CG2	2.35	1.05
3:A:689:ALA:CB	3:A:974:ILE:HG22	1.86	1.05
4:B:11:GLY:O	4:B:14:ARG:N	1.89	1.05
4:B:513:THR:HG23	4:B:515:LEU:HG	1.07	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:213:ILE:HG23	6:E:217:LYS:HD3	1.37	1.05
6:E:420:GLU:CA	6:E:423:ILE:HG12	1.86	1.05
9:S:157:MET:CE	9:S:279:VAL:HG11	1.85	1.05
9:T:45:LEU:CD2	9:T:59:GLY:O	2.04	1.05
9:T:100:LEU:HD11	9:T:301:ILE:HD11	1.39	1.05
9:T:157:MET:CB	9:T:294:TRP:CE2	2.40	1.05
9:U:206:VAL:CG2	9:U:274:ARG:HG3	1.87	1.05
9:U:298:ARG:H	9:U:302:PRO:HG2	1.21	1.05
9:V:3:LEU:HD12	9:V:4:GLU:N	1.70	1.05
9:V:209:LYS:CA	9:V:213:LEU:HB3	1.85	1.05
1:1:14:DC:H5	9:V:34:ARG:HD2	0.91	1.04
3:A:49:GLU:OE1	3:A:49:GLU:N	1.89	1.04
3:A:688:VAL:HG12	3:A:690:TYR:CE1	1.91	1.04
3:A:1100:VAL:HG23	6:E:101:HIS:CE1	1.91	1.04
4:B:235:LEU:CD1	4:B:239:LEU:HD12	1.75	1.04
4:B:330:LEU:CB	4:B:1011:LEU:CD1	2.35	1.04
4:B:515:LEU:CB	4:B:872:ALA:O	2.05	1.04
5:D:90:TYR:HD2	9:U:155:ARG:CD	1.36	1.04
6:E:407:LEU:HD13	6:E:415:VAL:HG23	1.07	1.04
6:E:482:GLU:N	6:E:482:GLU:OE1	1.90	1.04
9:U:36:ILE:HG22	9:U:40:GLU:OE2	1.56	1.04
9:U:206:VAL:HB	9:U:274:ARG:HG2	1.39	1.04
10:Y:116:PRO:HB2	10:Y:120:MET:HG2	1.38	1.04
3:A:236:MET:HE1	3:A:240:ARG:HG3	1.09	1.04
3:A:616:THR:OG1	3:A:633:GLN:N	1.89	1.04
3:A:894:ASN:O	3:A:897:GLN:NE2	1.89	1.04
4:B:880:GLU:CB	4:B:901:ARG:HD3	1.86	1.04
7:F:36:ALA:O	7:F:39:ALA:N	1.90	1.04
8:G:339:LEU:HD22	8:G:343:LEU:HG	1.08	1.04
9:S:32:ILE:HD12	9:S:36:ILE:HD11	1.34	1.04
9:S:207:GLN:O	9:S:211:GLU:HB2	1.57	1.04
9:T:157:MET:HB2	9:T:294:TRP:CE3	1.90	1.04
9:U:39:LEU:HD11	9:U:43:LEU:HD13	1.36	1.04
9:V:193:GLN:HB3	9:V:210:PHE:HE2	1.20	1.04
10:Y:150:VAL:HG11	10:Y:218:LEU:HD13	1.04	1.04
10:Y:167:GLY:HA3	10:Y:213:HIS:HA	1.33	1.04
3:A:769:LEU:HD12	3:A:804:LEU:HB3	1.35	1.04
4:B:92:GLN:NE2	4:B:96:ASP:OD2	1.91	1.04
4:B:1037:LYS:NZ	4:B:1053:GLU:HB3	1.73	1.04
8:G:173:TYR:O	8:G:183:LEU:CD1	2.05	1.04
8:G:173:TYR:O	8:G:183:LEU:HD13	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:4:GLU:HB3	9:S:27:VAL:HG22	1.10	1.04
9:T:105:LEU:HD11	9:T:296:LEU:HD21	1.32	1.04
9:U:92:LEU:HB2	9:U:290:ILE:HD11	1.36	1.04
9:V:247:LEU:HD13	9:V:251:ARG:CG	1.88	1.04
10:Y:95:PHE:CE2	10:Y:172:LEU:CD1	2.40	1.04
3:A:202:LEU:CD1	3:A:294:SER:HB2	1.86	1.04
3:A:281:LEU:O	3:A:283:LEU:HG	1.56	1.04
3:A:719:ILE:HG22	3:A:841:ALA:HB2	1.35	1.04
4:B:870:VAL:HB	4:B:873:ARG:HH12	1.19	1.04
5:C:42:ARG:CZ	5:D:35:THR:CG2	2.36	1.04
6:E:219:GLN:NE2	6:E:220:LYS:HG3	1.72	1.04
6:E:281:ASN:CB	6:E:285:ARG:HH12	1.69	1.04
6:E:288:ARG:NH1	6:E:291:GLU:OE2	1.89	1.04
6:E:315:ASP:OD2	6:E:318:ARG:N	1.90	1.04
6:E:485:ALA:HB2	6:E:488:ARG:HH21	1.18	1.04
9:T:189:VAL:CG1	9:T:193:GLN:HG2	1.86	1.04
10:X:126:LEU:HD13	10:Y:126:LEU:HG	1.33	1.04
3:A:402:LEU:CD2	3:A:447:LEU:HD11	1.84	1.04
3:A:927:SER:O	3:A:930:ARG:N	1.90	1.04
4:B:408:SER:HB2	4:B:410:ILE:HG23	1.39	1.04
4:B:710:PRO:HD3	4:B:722:LEU:CD2	1.88	1.04
4:B:831:GLN:CB	4:B:833:VAL:HG23	1.87	1.04
4:B:1126:GLN:HB2	4:B:1136:ILE:CD1	1.86	1.04
8:G:135:GLU:CB	8:G:139:LEU:HD12	1.88	1.04
9:T:181:GLU:O	9:T:182:ARG:HG3	1.56	1.04
9:V:184:PRO:O	9:V:188:LEU:HG	1.58	1.04
3:A:464:ARG:CD	3:A:529:VAL:HA	1.87	1.03
3:A:552:ARG:HH22	3:A:892:ARG:HD3	1.04	1.03
4:B:84:GLU:OE1	4:B:85:ILE:HG23	1.57	1.03
4:B:235:LEU:CD1	4:B:239:LEU:CG	2.35	1.03
4:B:566:THR:OG1	4:B:570:GLN:HB3	1.57	1.03
5:C:177:ASN:OD1	5:C:178:TYR:N	1.89	1.03
6:E:107:LYS:HA	6:E:248:VAL:HG22	1.36	1.03
6:E:276:TYR:O	6:E:279:VAL:N	1.91	1.03
6:E:403:ALA:C	6:E:406:LYS:HG3	1.82	1.03
9:S:263:ASN:CG	9:S:265:ALA:HB2	1.83	1.03
9:T:209:LYS:CE	9:T:273:THR:O	2.06	1.03
9:V:167:ILE:HG21	9:V:241:LEU:HD11	1.38	1.03
4:B:33:ALA:HB2	4:B:37:LYS:HZ1	1.19	1.03
6:E:346:ARG:CD	6:E:350:LEU:CD2	2.35	1.03
6:E:413:PRO:O	6:E:416:TRP:N	1.90	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:309:PRO:O	8:G:309:PRO:HG2	1.23	1.03
9:T:206:VAL:HG13	9:T:241:LEU:CD1	1.87	1.03
9:U:40:GLU:HG3	9:U:46:GLU:HG2	1.34	1.03
9:U:142:LEU:HD22	9:U:280:THR:HA	1.06	1.03
9:V:58:LEU:HG	9:V:61:GLU:HG3	1.38	1.03
10:Y:78:LEU:HD13	10:Y:90:TYR:OH	1.57	1.03
4:B:1215:GLU:HB3	4:B:1219:VAL:HG11	1.40	1.03
6:E:389:ILE:HG21	6:E:405:LYS:HD2	1.40	1.03
8:G:135:GLU:CG	8:G:139:LEU:HD12	1.88	1.03
8:G:339:LEU:HD23	8:G:343:LEU:HD23	1.39	1.03
9:T:274:ARG:HH22	9:T:276:VAL:CG1	1.70	1.03
9:U:92:LEU:CD2	9:U:290:ILE:HD11	1.88	1.03
9:U:172:ALA:CB	9:U:175:HIS:CD2	2.33	1.03
9:U:242:LEU:CD1	9:U:246:ALA:H	1.70	1.03
9:V:86:ALA:HB2	9:V:287:ILE:HD11	1.33	1.03
1:1:100:DA:C5	8:G:202:LYS:HE3	1.92	1.03
3:A:63:LEU:HD22	3:A:356:ALA:HB1	1.13	1.03
3:A:103:ASN:ND2	3:A:106:THR:O	1.90	1.03
3:A:127:THR:HG22	3:A:387:MET:SD	1.99	1.03
3:A:542:ILE:CD1	3:A:545:LEU:HD22	1.88	1.03
3:A:1043:ASP:O	3:A:1048:ARG:NH2	1.92	1.03
4:B:24:TYR:HB2	4:B:29:THR:CG2	1.88	1.03
4:B:281:VAL:HG12	4:B:282:VAL:H	1.21	1.03
5:D:13:THR:HA	5:D:19:HIS:HA	1.40	1.03
5:D:72:ARG:CD	5:D:129:THR:HG21	1.87	1.03
9:U:142:LEU:CD2	9:U:280:THR:HA	1.87	1.03
9:U:142:LEU:HD11	9:U:278:MET:HE2	1.35	1.03
9:V:93:CYS:HB2	9:V:141:ASP:HB3	1.38	1.03
9:V:167:ILE:CD1	9:V:202:MET:HE1	1.87	1.03
3:A:270:GLY:O	3:A:273:GLY:N	1.92	1.03
4:B:37:LYS:HE3	6:E:509:PRO:HD2	1.36	1.03
4:B:146:LEU:HD13	4:B:158:PRO:CB	1.88	1.03
4:B:374:GLU:CA	4:B:416:GLN:HE22	1.72	1.03
4:B:418:VAL:O	4:B:419:LYS:CG	2.05	1.03
6:E:393:ILE:O	6:E:396:GLY:N	1.92	1.03
9:T:45:LEU:HD23	9:T:59:GLY:HA2	1.03	1.03
9:U:45:LEU:HD11	9:U:62:ARG:HB3	1.04	1.03
9:V:60:GLY:HA2	9:V:63:LEU:HB3	1.39	1.03
9:V:158:VAL:HB	9:V:281:THR:HA	1.36	1.03
9:V:188:LEU:CD1	9:V:189:VAL:HG12	1.89	1.03
9:V:226:LEU:HG	9:V:229:PHE:CD1	1.94	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:32:LYS:HG2	10:Y:33:THR:H	1.23	1.03
4:B:76:THR:HG22	4:B:90:ARG:HD3	1.41	1.02
4:B:356:THR:H	4:B:412:ILE:HD12	0.88	1.02
4:B:384:ILE:HA	4:B:406:GLN:HA	1.38	1.02
4:B:498:VAL:CG2	4:B:884:VAL:HG11	1.88	1.02
4:B:564:ILE:CG2	4:B:570:GLN:HG3	1.89	1.02
4:B:766:ILE:HG23	4:B:799:ILE:HG12	1.40	1.02
4:B:831:GLN:HB2	4:B:833:VAL:CG2	1.89	1.02
4:B:980:LEU:HA	4:B:995:VAL:HA	1.41	1.02
4:B:1032:ARG:HG3	4:B:1078:PRO:HG3	1.35	1.02
5:C:141:ARG:CZ	5:C:155:ARG:HB2	1.89	1.02
5:D:90:TYR:CD2	9:U:155:ARG:HD2	1.62	1.02
9:S:166:PRO:HB2	9:S:263:ASN:HB2	1.37	1.02
9:V:162:LEU:HD21	9:V:278:MET:HE2	1.32	1.02
10:X:101:LEU:HD21	10:X:103:ALA:N	1.75	1.02
2:2:97:DG:H5"	9:S:155:ARG:HG3	1.38	1.02
4:B:173:ILE:CG2	4:B:177:TYR:CZ	2.41	1.02
4:B:299:TYR:CE1	4:B:1139:LYS:CD	2.42	1.02
4:B:443:LYS:HZ3	4:B:997:LEU:HD22	1.24	1.02
4:B:479:LEU:HD13	4:B:481:TRP:CZ2	1.95	1.02
4:B:491:PRO:CD	4:B:876:ILE:CD1	2.34	1.02
4:B:852:SER:H	4:B:877:LEU:CG	1.70	1.02
5:D:45:LEU:O	5:D:45:LEU:HD12	1.60	1.02
6:E:46:ASN:ND2	6:E:49:THR:OG1	1.92	1.02
6:E:536:ALA:HB3	6:E:538:LEU:CD2	1.89	1.02
9:T:144:ILE:HG22	9:T:162:LEU:HD11	1.35	1.02
9:T:196:PHE:HD2	9:T:200:TYR:HB2	1.23	1.02
9:T:285:LEU:CG	9:T:290:ILE:HG22	1.89	1.02
9:V:195:VAL:HB	9:V:203:GLN:OE1	1.57	1.02
3:A:677:GLY:N	3:A:679:GLU:OE2	1.90	1.02
3:A:705:SER:CB	3:A:871:MET:HE1	1.88	1.02
3:A:749:ARG:NE	3:A:750:GLN:OE1	1.92	1.02
4:B:635:GLU:HB2	4:B:686:VAL:HB	1.40	1.02
4:B:1151:LYS:HD2	4:B:1169:GLU:CB	1.89	1.02
5:C:42:ARG:HH21	5:D:32:GLN:HA	1.22	1.02
9:S:162:LEU:HG	9:S:276:VAL:CG2	1.87	1.02
9:T:172:ALA:HB3	9:T:233:VAL:HG12	1.41	1.02
9:U:126:LEU:HB3	9:U:130:ARG:HH11	1.21	1.02
9:U:243:PRO:CD	9:U:274:ARG:CD	2.13	1.02
9:U:296:LEU:HD21	9:U:301:ILE:HG12	1.38	1.02
10:Y:47:LEU:CD1	10:Y:75:PHE:CE2	2.42	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:77:VAL:CG2	10:Y:129:ARG:NE	2.21	1.02
3:A:103:ASN:ND2	3:A:105:GLU:OE1	1.91	1.02
4:B:144:ARG:HB2	4:B:159:ILE:HG22	1.37	1.02
4:B:197:THR:O	4:B:201:VAL:CG2	2.07	1.02
4:B:359:LEU:HG	4:B:386:ILE:HG13	1.06	1.02
5:D:215:GLY:O	5:D:218:VAL:N	1.93	1.02
9:U:200:TYR:HB2	9:U:203:GLN:HB3	1.36	1.02
9:V:148:ASN:HB2	9:V:212:ARG:NH1	1.74	1.02
10:X:30:ARG:HB3	10:X:95:PHE:HA	1.41	1.02
2:2:64:DA:C2	2:2:65:DA:N1	2.28	1.02
3:A:406:GLY:O	3:A:409:GLY:N	1.92	1.02
4:B:77:GLU:HG2	4:B:90:ARG:HH12	1.21	1.02
4:B:199:ARG:HG2	4:B:1214:GLN:HE21	1.20	1.02
4:B:299:TYR:CD1	4:B:1139:LYS:HE3	1.92	1.02
4:B:509:VAL:C	4:B:510:LEU:CD1	2.30	1.02
5:C:221:PHE:HE1	5:D:36:VAL:HA	1.23	1.02
6:E:260:VAL:CG1	6:E:268:ALA:HB3	1.89	1.02
8:G:376:LEU:HB2	8:G:382:ASN:ND2	1.74	1.02
9:S:32:ILE:HG13	9:S:36:ILE:HD12	1.41	1.02
9:T:194:VAL:HG23	9:T:217:LEU:HD11	1.38	1.02
9:T:202:MET:C	9:T:205:LEU:CG	2.31	1.02
10:X:44:VAL:HG21	10:X:101:LEU:HD11	1.37	1.02
3:A:872:PRO:HB3	3:A:961:ASP:OD2	1.59	1.01
4:B:21:PHE:CG	6:E:497:ILE:HD13	1.94	1.01
4:B:42:ARG:O	4:B:45:THR:HB	1.59	1.01
4:B:63:ARG:HH21	4:B:67:GLU:HB3	1.25	1.01
4:B:242:ARG:HA	4:B:300:GLY:HA3	1.39	1.01
4:B:330:LEU:CB	4:B:1011:LEU:HD12	1.90	1.01
8:G:196:GLU:N	8:G:196:GLU:OE1	1.91	1.01
9:S:135:LEU:HB3	9:S:150:PHE:HB2	1.42	1.01
9:T:132:LEU:HD11	9:T:279:VAL:HG12	1.05	1.01
9:T:275:ARG:HH21	9:T:277:VAL:HG23	1.20	1.01
9:U:278:MET:CE	9:U:293:PHE:O	2.08	1.01
9:V:190:ARG:O	9:V:191:TYR:CG	2.12	1.01
9:V:203:GLN:NE2	9:V:207:GLN:CA	2.22	1.01
10:X:78:LEU:HD13	10:X:90:TYR:OH	1.60	1.01
10:Y:47:LEU:HB3	10:Y:69:LEU:HD23	1.39	1.01
10:Y:47:LEU:CB	10:Y:75:PHE:CE2	2.42	1.01
3:A:34:GLN:O	3:A:38:PHE:N	1.93	1.01
3:A:737:THR:HB	3:A:773:VAL:HG22	1.37	1.01
3:A:1055:ILE:CD1	6:E:387:PHE:CZ	2.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:27:ALA:CB	7:F:19:GLU:CG	2.39	1.01
5:D:24:ILE:HD11	5:D:195:LEU:CD2	1.90	1.01
6:E:49:THR:C	6:E:50:LEU:HG	1.81	1.01
6:E:217:LYS:C	6:E:221:ARG:HD2	1.84	1.01
9:T:171:THR:HG1	9:T:175:HIS:CE1	1.71	1.01
9:T:190:ARG:H	9:T:215:ALA:HB1	1.15	1.01
9:T:275:ARG:NH2	9:T:277:VAL:HG23	1.72	1.01
9:V:196:PHE:N	9:V:203:GLN:OE1	1.93	1.01
9:V:206:VAL:HG22	9:V:209:LYS:CD	1.90	1.01
9:V:247:LEU:CD1	9:V:251:ARG:HG3	1.90	1.01
2:2:97:DG:OP2	9:S:155:ARG:NH1	1.93	1.01
3:A:705:SER:CA	3:A:871:MET:HE1	1.91	1.01
4:B:318:ILE:HD13	6:E:438:ARG:HH12	1.22	1.01
4:B:451:GLY:HA3	4:B:484:SER:HA	1.42	1.01
4:B:853:THR:HG22	4:B:876:ILE:HG22	1.04	1.01
4:B:913:LYS:CG	4:B:914:PRO:HD2	1.91	1.01
6:E:105:TYR:CG	6:E:249:ILE:O	2.14	1.01
6:E:219:GLN:HE21	6:E:220:LYS:HG3	1.21	1.01
6:E:509:PRO:CA	6:E:513:MET:CE	2.29	1.01
8:G:89:ILE:CB	8:G:92:ILE:HD12	1.89	1.01
9:S:161:VAL:CG1	9:S:277:VAL:HG22	1.91	1.01
9:V:139:LEU:HG	9:V:140:VAL:H	1.19	1.01
9:V:167:ILE:CG2	9:V:241:LEU:HD13	1.89	1.01
9:V:167:ILE:HG22	9:V:241:LEU:HD13	1.37	1.01
4:B:880:GLU:HG3	4:B:881:GLY:N	1.74	1.01
4:B:1207:PHE:CD1	4:B:1230:ASP:OD2	2.12	1.01
5:C:46:SER:OG	5:C:47:ASN:OD1	1.78	1.01
5:C:72:ARG:CG	5:C:129:THR:HB	1.90	1.01
5:D:156:GLU:HA	5:D:163:PHE:CE1	1.95	1.01
6:E:420:GLU:O	6:E:423:ILE:HG12	1.61	1.01
6:E:447:ILE:HG22	6:E:449:VAL:HG23	1.39	1.01
8:G:191:LEU:O	8:G:194:ALA:N	1.94	1.01
9:T:180:TYR:C	9:T:188:LEU:CD2	2.33	1.01
9:T:180:TYR:C	9:T:188:LEU:HD21	1.86	1.01
9:T:197:LYS:HB2	9:T:200:TYR:CD2	1.95	1.01
9:T:205:LEU:HD12	9:T:206:VAL:HG23	1.39	1.01
9:U:243:PRO:CG	9:U:274:ARG:HD2	1.91	1.01
9:U:296:LEU:CG	9:U:301:ILE:HG13	1.75	1.01
9:V:160:GLU:OE1	9:V:297:VAL:CB	2.08	1.01
10:Y:77:VAL:HG21	10:Y:129:ARG:CZ	1.90	1.01
3:A:400:ARG:HB2	3:A:447:LEU:CD2	1.90	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1126:GLN:CD	4:B:1136:ILE:HG12	1.85	1.01
5:D:51:THR:HA	5:D:144:ARG:HA	1.41	1.01
6:E:379:MET:SD	6:E:475:VAL:HG21	2.00	1.01
6:E:389:ILE:HG21	6:E:405:LYS:CE	1.89	1.01
8:G:108:ALA:O	8:G:111:LEU:N	1.94	1.01
9:T:156:ASP:HB2	9:T:291:LYS:HG3	1.42	1.01
9:T:157:MET:HB3	9:T:282:GLN:CA	1.91	1.01
9:U:45:LEU:HD13	9:U:62:ARG:CA	1.91	1.01
9:U:204:ARG:HA	9:U:207:GLN:HG2	1.02	1.01
10:X:78:LEU:CD2	10:X:88:ARG:CG	2.39	1.01
10:Y:55:SER:HB2	10:Y:92:ALA:HA	1.41	1.01
10:Y:169:THR:HA	10:Y:211:THR:HG21	1.41	1.01
3:A:199:LEU:CD2	3:A:227:GLY:O	2.08	1.00
3:A:449:THR:HG21	3:A:535:VAL:CG2	1.91	1.00
3:A:520:THR:OG1	3:A:522:GLU:OE2	1.77	1.00
3:A:552:ARG:CZ	3:A:892:ARG:HB3	1.91	1.00
3:A:578:LEU:O	3:A:581:GLN:NE2	1.94	1.00
4:B:235:LEU:HD12	4:B:239:LEU:HG	1.42	1.00
4:B:372:HIS:ND1	4:B:374:GLU:OE2	1.93	1.00
4:B:896:ARG:HD3	4:B:986:ASP:C	1.85	1.00
4:B:1163:LEU:HD11	4:B:1166:GLU:HB2	1.01	1.00
5:C:76:LEU:O	5:C:80:MET:HG2	1.60	1.00
6:E:22:ILE:HG22	6:E:25:TRP:CZ2	1.96	1.00
8:G:114:GLU:O	8:G:117:ARG:N	1.94	1.00
9:U:210:PHE:HZ	9:U:243:PRO:HG3	1.25	1.00
9:V:203:GLN:OE1	9:V:206:VAL:HG12	1.60	1.00
9:V:209:LYS:CE	9:V:241:LEU:HD21	1.90	1.00
10:Y:118:LEU:CG	10:Y:121:LEU:HD12	1.90	1.00
2:2:110:DT:H2"	2:2:111:DT:H71	1.41	1.00
3:A:83:GLU:HA	3:A:86:ARG:CD	1.89	1.00
3:A:503:ILE:HD11	3:A:521:PRO:HB3	1.39	1.00
3:A:704:ILE:HD11	3:A:882:ILE:HG13	1.42	1.00
3:A:1034:LEU:O	3:A:1037:LEU:N	1.93	1.00
4:B:21:PHE:CD1	6:E:497:ILE:HD13	1.96	1.00
4:B:167:LEU:HD22	4:B:171:GLU:CD	1.86	1.00
4:B:199:ARG:HG2	4:B:1214:GLN:NE2	1.75	1.00
4:B:776:TYR:HB3	4:B:780:GLU:HG3	1.39	1.00
4:B:831:GLN:HB2	4:B:833:VAL:HG23	1.02	1.00
4:B:1036:VAL:HA	4:B:1073:ASP:HA	1.42	1.00
4:B:1163:LEU:HD11	4:B:1166:GLU:CB	1.90	1.00
4:B:1207:PHE:CD2	4:B:1220:LEU:HD12	1.89	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:78:ARG:HG3	8:G:346:GLY:O	1.60	1.00
9:T:123:VAL:HG21	9:V:223:VAL:CG2	1.91	1.00
9:U:146:MET:H	9:U:202:MET:CG	1.74	1.00
9:V:205:LEU:HD12	9:V:212:ARG:NH2	1.76	1.00
3:A:542:ILE:HG21	3:A:545:LEU:HB2	1.41	1.00
3:A:598:VAL:HG21	3:A:601:VAL:HB	1.44	1.00
3:A:1033:THR:O	3:A:1037:LEU:CB	2.09	1.00
3:A:1085:ALA:O	3:A:1087:HIS:ND1	1.93	1.00
4:B:359:LEU:CB	4:B:386:ILE:HD12	1.91	1.00
4:B:639:VAL:HG12	4:B:641:LYS:CE	1.91	1.00
5:C:57:ARG:N	5:C:139:GLU:O	1.94	1.00
6:E:362:ILE:HD13	6:E:454:ILE:HG12	1.41	1.00
6:E:485:ALA:HB2	6:E:488:ARG:NH2	1.76	1.00
9:S:126:LEU:CD1	9:S:127:GLY:O	2.09	1.00
9:T:36:ILE:CG2	9:T:46:GLU:OE2	2.09	1.00
9:T:180:TYR:HA	9:T:188:LEU:HD21	1.32	1.00
9:T:185:TRP:CB	9:T:213:LEU:HD22	1.91	1.00
3:A:402:LEU:HD23	3:A:447:LEU:HD11	1.04	1.00
3:A:431:CYS:H	3:A:446:SER:HB2	1.24	1.00
3:A:737:THR:N	3:A:771:GLY:O	1.94	1.00
4:B:360:PRO:HD2	4:B:386:ILE:HD11	1.44	1.00
3:A:489:ARG:HA	3:A:512:TYR:HA	1.42	1.00
4:B:33:ALA:CB	4:B:37:LYS:HZ3	1.48	1.00
4:B:359:LEU:HD11	4:B:384:ILE:C	1.87	1.00
4:B:366:ARG:HE	4:B:377:LEU:HB2	1.27	1.00
4:B:412:ILE:HG12	4:B:424:LEU:HB3	1.41	1.00
6:E:191:GLU:HG3	6:E:194:LEU:HD21	1.05	1.00
9:S:155:ARG:NH2	9:S:158:VAL:HG11	1.77	1.00
9:T:146:MET:HE1	9:T:205:LEU:CG	1.92	1.00
4:B:481:TRP:HE1	4:B:971:PRO:HB3	1.21	1.00
3:A:806:VAL:HG22	3:A:810:GLU:HG3	1.43	1.00
4:B:173:ILE:HG22	4:B:177:TYR:OH	1.56	1.00
4:B:235:LEU:HD11	4:B:239:LEU:HD11	1.41	1.00
4:B:1037:LYS:CG	4:B:1052:ILE:HA	1.91	1.00
5:C:72:ARG:HG2	5:C:129:THR:CB	1.92	1.00
6:E:432:ARG:HG2	6:E:434:PRO:HD2	1.02	1.00
9:U:45:LEU:HD13	9:U:62:ARG:HB2	1.19	1.00
9:T:293:PHE:CE1	9:T:297:VAL:HG22	1.97	0.99
9:U:278:MET:HG3	9:U:297:VAL:HG11	1.41	0.99
4:B:157:LEU:HD21	4:B:171:GLU:N	1.75	0.99
9:T:163:TYR:H	9:T:301:ILE:HG22	1.17	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:194:VAL:HG22	9:T:217:LEU:CD1	1.91	0.99
9:T:209:LYS:HD2	9:T:273:THR:O	1.59	0.99
9:U:189:VAL:HA	9:U:193:GLN:HG3	1.39	0.99
5:D:148:TYR:CE1	6:E:547:GLN:HB2	1.97	0.99
9:T:205:LEU:CD1	9:T:206:VAL:CG2	2.39	0.99
3:A:335:GLN:N	3:A:335:GLN:OE1	1.93	0.99
3:A:940:ARG:NE	3:A:949:TYR:HD2	1.60	0.99
4:B:454:LYS:HG2	4:B:455:PHE:H	1.26	0.99
5:C:146:LYS:HE2	5:D:189:ILE:HG13	1.02	0.99
6:E:46:ASN:N	6:E:53:GLU:OE2	1.95	0.99
9:S:213:LEU:CD1	9:S:264:SER:HB2	1.92	0.99
9:T:209:LYS:CE	9:T:212:ARG:NH2	2.25	0.99
4:B:249:ILE:HG22	4:B:249:ILE:O	1.63	0.99
4:B:609:VAL:HG12	4:B:626:GLY:HA3	1.44	0.99
10:X:55:SER:HB2	10:X:92:ALA:HA	1.41	0.99
4:B:1244:LEU:HG	4:B:1245:ILE:N	1.68	0.99
6:E:161:LEU:O	6:E:162:LEU:HG	1.63	0.99
9:T:45:LEU:HD22	9:T:59:GLY:O	1.61	0.99
9:T:175:HIS:ND1	9:T:177:LEU:HB2	1.78	0.99
9:T:226:LEU:HG	9:T:230:ARG:NH2	1.75	0.99
3:A:609:ARG:HG2	3:A:636:ARG:HA	1.42	0.99
3:A:745:GLU:O	3:A:749:ARG:NH1	1.96	0.99
8:G:192:ILE:HG13	8:G:193:ARG:H	1.16	0.99
9:T:109:LEU:CD2	9:T:113:CYS:SG	2.50	0.99
9:T:274:ARG:NH2	9:T:276:VAL:CG1	2.25	0.99
9:U:167:ILE:HG12	9:U:261:LEU:O	1.61	0.99
9:V:97:ILE:HG21	9:V:202:MET:SD	1.99	0.99
5:C:169:ILE:O	5:C:171:MET:HG2	1.60	0.99
6:E:390:ASN:OD1	6:E:391:ARG:N	1.96	0.99
9:U:167:ILE:HD12	9:U:272:LEU:CB	1.92	0.99
3:A:463:PHE:CG	3:A:481:THR:HG23	1.98	0.99
3:A:579:GLU:OE1	3:A:579:GLU:N	1.95	0.99
3:A:759:ILE:CD1	3:A:817:VAL:HG12	1.91	0.99
3:A:775:PRO:O	3:A:776:LYS:HG2	1.63	0.99
4:B:15:ASN:OD1	4:B:16:LEU:N	1.95	0.99
5:D:34:THR:HG23	5:D:180:VAL:HG11	1.44	0.99
8:G:89:ILE:HG23	8:G:92:ILE:CD1	1.92	0.99
9:S:208:GLU:HG2	9:S:272:LEU:HD21	1.45	0.99
9:T:196:PHE:H	9:T:203:GLN:HB2	1.28	0.99
9:U:45:LEU:HD21	9:U:62:ARG:HE	1.28	0.99
9:V:167:ILE:HG13	9:V:272:LEU:HD22	1.41	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:34:GLN:O	3:A:37:SER:OG	1.81	0.99
3:A:300:ALA:O	3:A:303:TYR:N	1.95	0.99
3:A:328:VAL:HG23	3:A:329:GLY:H	1.22	0.99
3:A:1027:ALA:HB3	6:E:438:ARG:CD	1.93	0.99
4:B:203:VAL:CG2	4:B:1197:ILE:HB	1.92	0.99
4:B:1037:LYS:HG3	4:B:1052:ILE:HA	1.00	0.99
6:E:50:LEU:H	6:E:51:LYS:NZ	1.59	0.99
6:E:72:HIS:H	6:E:91:VAL:HG21	1.21	0.99
6:E:358:GLY:HA3	6:E:379:MET:HE1	1.45	0.99
6:E:379:MET:CE	6:E:475:VAL:HG21	1.93	0.99
9:S:177:LEU:HG	9:S:187:GLU:HG3	1.45	0.99
9:S:200:TYR:CE2	9:S:202:MET:HB3	1.71	0.99
9:U:40:GLU:HA	9:U:46:GLU:CD	1.88	0.99
9:U:147:ASN:HB3	9:U:277:VAL:HG13	1.44	0.99
9:V:128:SER:CB	9:V:204:ARG:HD3	1.92	0.99
9:V:184:PRO:CA	9:V:188:LEU:HD23	1.93	0.99
3:A:674:SER:O	3:A:681:ALA:N	1.94	0.98
4:B:384:ILE:CA	4:B:406:GLN:HA	1.91	0.98
6:E:20:GLU:HA	6:E:23:ARG:HD3	1.42	0.98
6:E:38:GLU:OE1	6:E:39:VAL:N	1.96	0.98
9:T:274:ARG:HH22	9:T:276:VAL:HG12	1.07	0.98
9:V:177:LEU:HD11	9:V:191:TYR:CE2	1.98	0.98
10:X:78:LEU:HD23	10:X:88:ARG:HG2	1.44	0.98
10:Y:78:LEU:HD23	10:Y:88:ARG:HG2	1.44	0.98
1:1:46:DA:C2'	1:1:47:DT:H71	1.92	0.98
3:A:718:HIS:O	3:A:841:ALA:HA	1.62	0.98
4:B:10:LYS:NZ	4:B:14:ARG:HH21	1.59	0.98
4:B:33:ALA:CB	4:B:37:LYS:HZ1	1.54	0.98
4:B:670:GLY:HA3	4:B:689:GLY:N	1.76	0.98
4:B:713:GLU:HB3	4:B:719:ALA:HB2	1.44	0.98
6:E:217:LYS:O	6:E:221:ARG:HD2	1.62	0.98
6:E:362:ILE:HG13	6:E:473:MET:SD	2.02	0.98
9:S:155:ARG:HH21	9:S:158:VAL:HG21	1.27	0.98
9:T:170:LEU:CD1	9:T:233:VAL:CG2	2.22	0.98
9:U:288:PRO:CG	9:U:291:LYS:HE2	1.92	0.98
10:X:182:ALA:O	10:X:183:ILE:CG1	2.10	0.98
10:Y:118:LEU:HG	10:Y:121:LEU:CD1	1.92	0.98
10:Y:148:ARG:NH2	10:Y:183:ILE:HD13	1.76	0.98
3:A:463:PHE:HD2	3:A:481:THR:HG23	1.18	0.98
3:A:940:ARG:CZ	3:A:949:TYR:HD2	1.76	0.98
9:S:225:THR:HG23	9:U:123:VAL:O	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:281:THR:OG1	9:S:284:ARG:NH1	1.94	0.98
9:T:146:MET:HE1	9:T:205:LEU:HB2	1.39	0.98
9:T:144:ILE:CG2	9:T:162:LEU:CD1	2.41	0.98
9:V:84:LEU:CD1	9:V:85:ILE:HG13	1.92	0.98
4:B:564:ILE:HB	4:B:572:PHE:HB2	1.44	0.98
4:B:609:VAL:HA	4:B:625:GLN:O	1.62	0.98
6:E:368:LEU:HD12	6:E:369:LYS:O	1.63	0.98
9:T:34:ARG:CA	9:T:50:ARG:NH2	2.26	0.98
3:A:463:PHE:CD2	3:A:481:THR:CG2	2.47	0.98
3:A:1043:ASP:CG	3:A:1068:GLU:H	1.71	0.98
4:B:510:LEU:CD2	4:B:878:SER:H	1.76	0.98
4:B:1207:PHE:CG	4:B:1230:ASP:OD2	2.16	0.98
5:C:72:ARG:CG	5:C:73:GLU:OE1	2.11	0.98
8:G:190:GLY:O	8:G:193:ARG:N	1.97	0.98
9:U:202:MET:O	9:U:274:ARG:NH1	1.97	0.98
9:U:208:GLU:O	9:U:212:ARG:HG3	0.81	0.98
3:A:940:ARG:HD2	3:A:949:TYR:HB3	1.38	0.98
4:B:479:LEU:HD13	4:B:481:TRP:HZ2	1.28	0.98
4:B:852:SER:H	4:B:877:LEU:HD21	0.81	0.98
6:E:407:LEU:HA	6:E:410:ARG:HB3	1.46	0.98
9:T:157:MET:HA	9:T:294:TRP:NE1	1.78	0.98
9:T:197:LYS:H	9:T:200:TYR:HB2	1.24	0.98
10:Y:78:LEU:CD2	10:Y:88:ARG:CG	2.42	0.98
4:B:544:VAL:HG13	4:B:757:SER:HB2	1.46	0.98
4:B:863:ASP:OD2	4:B:866:VAL:CG2	2.11	0.98
4:B:1032:ARG:HG2	4:B:1078:PRO:HG3	1.35	0.98
6:E:379:MET:CE	6:E:475:VAL:CG2	2.40	0.98
9:T:105:LEU:HD13	9:T:300:ASN:OD1	1.62	0.98
9:V:48:PHE:O	9:V:57:THR:CG2	2.12	0.98
3:A:202:LEU:HD11	3:A:294:SER:CB	1.93	0.98
3:A:697:ASN:O	3:A:697:ASN:OD1	1.81	0.98
4:B:286:LEU:HD21	4:B:1115:GLN:HA	1.44	0.98
4:B:374:GLU:HB2	4:B:416:GLN:NE2	1.78	0.98
4:B:540:ILE:HD13	4:B:835:LEU:HD13	1.42	0.98
4:B:552:THR:O	4:B:562:TYR:HA	1.64	0.98
4:B:922:ILE:HG21	4:B:928:LEU:HD21	1.46	0.98
5:C:72:ARG:HG2	5:C:73:GLU:OE1	1.64	0.98
5:D:48:LEU:HD21	5:D:171:MET:CG	1.93	0.98
9:U:40:GLU:HG3	9:U:46:GLU:HG3	1.00	0.98
3:A:464:ARG:HH21	3:A:473:PHE:HB2	1.29	0.98
3:A:737:THR:CB	3:A:773:VAL:CG2	2.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:767:ASP:HB2	3:A:806:VAL:CG1	1.94	0.98
4:B:257:ILE:HG22	4:B:258:ALA:H	1.24	0.98
4:B:347:GLN:O	4:B:350:ARG:NH1	1.95	0.98
4:B:390:ARG:O	4:B:391:LYS:CG	2.10	0.98
5:C:161:LEU:O	5:C:162:ASP:OD1	1.82	0.98
7:F:58:VAL:O	7:F:61:ALA:N	1.97	0.98
9:T:97:ILE:CG2	9:T:100:LEU:CD1	2.42	0.98
9:T:105:LEU:HD11	9:T:296:LEU:HD23	1.45	0.98
9:T:209:LYS:HE2	9:T:212:ARG:NH2	1.79	0.98
9:U:157:MET:HE2	9:U:159:VAL:HA	1.44	0.98
9:V:5:GLN:HB2	9:V:39:LEU:HD11	1.46	0.98
9:V:147:ASN:ND2	9:V:155:ARG:NH2	2.12	0.98
3:A:238:LEU:HD21	3:A:257:LEU:CD1	1.91	0.97
3:A:959:VAL:HG21	3:A:972:VAL:HB	1.46	0.97
3:A:1003:GLN:HE22	3:A:1048:ARG:HH12	1.04	0.97
6:E:398:VAL:HG11	6:E:404:ALA:CA	1.93	0.97
7:F:34:GLN:O	7:F:37:ASN:N	1.95	0.97
3:A:433:ILE:HG22	3:A:539:THR:HG22	1.44	0.97
4:B:98:TRP:HZ3	4:B:143:MET:HE1	1.29	0.97
4:B:360:PRO:CD	4:B:386:ILE:HD11	1.94	0.97
4:B:445:VAL:HG12	4:B:994:LEU:HB2	1.41	0.97
9:S:126:LEU:HD11	9:S:145:VAL:HG22	1.43	0.97
9:S:161:VAL:HG12	9:S:277:VAL:HG22	0.99	0.97
9:T:172:ALA:CB	9:T:233:VAL:HG12	1.93	0.97
9:T:185:TRP:HB2	9:T:213:LEU:HD22	0.97	0.97
9:T:247:LEU:HB2	9:T:251:ARG:HD2	1.45	0.97
9:T:288:PRO:HA	9:T:291:LYS:CE	1.92	0.97
9:U:167:ILE:HD12	9:U:272:LEU:HB2	1.00	0.97
2:2:92:DA:N6	9:T:34:ARG:CD	2.27	0.97
4:B:165:GLU:N	4:B:165:GLU:OE1	1.97	0.97
4:B:1229:SER:HA	6:E:13:LYS:HA	1.46	0.97
6:E:362:ILE:CD1	6:E:454:ILE:CG1	2.08	0.97
8:G:106:LYS:HE2	8:G:150:ILE:CG2	1.94	0.97
8:G:233:VAL:CA	8:G:236:TYR:CE2	2.48	0.97
9:T:175:HIS:CE1	9:T:177:LEU:HB3	1.97	0.97
9:U:66:ARG:O	9:U:69:LYS:N	1.96	0.97
4:B:224:PRO:O	4:B:226:THR:OG1	1.81	0.97
5:C:141:ARG:NH1	5:C:155:ARG:CB	2.26	0.97
6:E:191:GLU:O	6:E:194:LEU:CG	2.13	0.97
6:E:430:LEU:CD2	6:E:475:VAL:HA	1.93	0.97
9:S:157:MET:HB3	9:U:20:LYS:CE	1.95	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:66:ARG:O	9:T:69:LYS:N	1.96	0.97
9:T:109:LEU:HA	9:T:296:LEU:HD13	1.46	0.97
3:A:1018:GLY:O	3:A:1021:GLU:CG	2.12	0.97
4:B:266:ASP:O	4:B:269:ALA:N	1.97	0.97
4:B:360:PRO:HD3	4:B:386:ILE:HD13	0.97	0.97
6:E:432:ARG:CG	6:E:434:PRO:HD2	1.94	0.97
9:U:144:ILE:CG2	9:U:276:VAL:HG11	1.92	0.97
3:A:940:ARG:NE	3:A:949:TYR:CD2	2.32	0.97
4:B:103:GLU:HB3	4:B:424:LEU:HD12	1.46	0.97
4:B:524:ARG:HH12	4:B:818:LEU:HD21	0.88	0.97
6:E:379:MET:CE	6:E:475:VAL:HB	1.94	0.97
6:E:426:HIS:CE1	7:F:56:LYS:HD3	1.99	0.97
9:T:167:ILE:HG23	9:T:241:LEU:HD13	1.46	0.97
10:Y:45:TYR:HD2	10:Y:75:PHE:CG	1.77	0.97
3:A:430:ILE:HG23	3:A:446:SER:H	1.29	0.97
3:A:1039:THR:O	3:A:1042:SER:N	1.97	0.97
4:B:490:LEU:HB3	4:B:876:ILE:HD11	1.44	0.97
5:D:182:GLU:N	5:D:192:ASP:OD1	1.97	0.97
9:T:146:MET:SD	9:T:274:ARG:HB2	2.04	0.97
9:U:18:PHE:HE1	9:U:36:ILE:HD13	1.29	0.97
3:A:320:LEU:HB3	3:A:483:ASP:OD1	1.52	0.97
5:C:57:ARG:HD3	5:C:162:ASP:OD1	1.65	0.97
9:T:167:ILE:HB	9:T:274:ARG:CG	1.95	0.97
9:T:185:TRP:HB3	9:T:213:LEU:HB2	1.42	0.97
1:1:113:DT:C7	3:A:414:ARG:CG	2.32	0.97
3:A:153:ILE:HG13	3:A:159:ARG:HG3	1.47	0.97
4:B:384:ILE:HG23	4:B:405:THR:O	1.63	0.97
6:E:252:ILE:HD11	6:E:334:LEU:HD11	1.42	0.97
6:E:362:ILE:HG13	6:E:473:MET:CG	1.95	0.97
9:S:157:MET:SD	9:S:279:VAL:HG11	2.04	0.97
9:S:212:ARG:HD2	9:S:267:PRO:HA	1.46	0.97
9:T:202:MET:CA	9:T:205:LEU:CG	2.26	0.97
9:U:204:ARG:HA	9:U:207:GLN:CD	1.90	0.97
3:A:238:LEU:HD22	3:A:257:LEU:CD1	1.89	0.97
4:B:613:LYS:NZ	4:B:776:TYR:OH	1.98	0.97
5:C:45:LEU:HD21	5:C:173:VAL:HG13	1.47	0.97
6:E:240:LYS:HB2	6:E:243:TRP:NE1	1.80	0.97
6:E:509:PRO:C	6:E:513:MET:HE3	1.88	0.97
8:G:192:ILE:HG13	8:G:193:ARG:N	1.69	0.97
9:T:230:ARG:CD	9:V:249:GLU:CD	2.36	0.97
9:V:86:ALA:HB3	9:V:287:ILE:HD13	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:113:DT:H71	3:A:414:ARG:HG3	1.32	0.96
3:A:245:GLY:HA3	8:G:87:GLN:NE2	1.78	0.96
3:A:708:LEU:HD23	3:A:846:ILE:HD11	1.47	0.96
4:B:913:LYS:HG3	4:B:914:PRO:HD2	1.47	0.96
4:B:1051:VAL:HG12	4:B:1052:ILE:HG12	1.46	0.96
5:C:217:LEU:HD23	5:C:217:LEU:H	1.30	0.96
9:T:167:ILE:HG23	9:T:241:LEU:CD1	1.94	0.96
9:U:278:MET:CG	9:U:297:VAL:CG1	2.41	0.96
9:V:247:LEU:HD11	9:V:251:ARG:HD3	1.41	0.96
3:A:278:ASN:O	3:A:282:ARG:N	1.98	0.96
4:B:356:THR:H	4:B:412:ILE:CD1	1.77	0.96
4:B:659:GLU:OE2	4:B:666:CYS:CB	2.12	0.96
9:V:247:LEU:HD13	9:V:251:ARG:NE	1.80	0.96
10:Y:47:LEU:CB	10:Y:75:PHE:CD2	2.47	0.96
2:2:92:DA:H61	9:T:34:ARG:CD	1.79	0.96
3:A:163:ALA:O	3:A:175:PHE:N	1.98	0.96
3:A:699:GLU:O	3:A:701:ALA:N	1.97	0.96
4:B:593:ASP:OD1	4:B:597:ARG:NH1	1.98	0.96
5:C:42:ARG:NH2	5:D:35:THR:HG23	1.79	0.96
5:C:93:GLN:O	5:C:95:GLN:NE2	1.99	0.96
9:S:8:ALA:HB1	9:S:32:ILE:HD13	1.45	0.96
9:T:177:LEU:HG	9:T:180:TYR:HD2	1.29	0.96
9:T:209:LYS:CD	9:T:273:THR:O	2.13	0.96
9:U:172:ALA:HA	9:U:256:LEU:HA	1.47	0.96
9:U:278:MET:SD	9:U:297:VAL:HG11	1.89	0.96
3:A:542:ILE:CG2	3:A:545:LEU:HB2	1.94	0.96
3:A:581:GLN:N	3:A:581:GLN:OE1	1.97	0.96
3:A:900:GLU:OE1	3:A:900:GLU:N	1.97	0.96
4:B:41:PHE:O	4:B:44:ALA:N	1.99	0.96
6:E:296:GLU:HB2	6:E:300:ARG:HG3	1.46	0.96
9:T:172:ALA:HB2	9:T:233:VAL:CG1	1.95	0.96
9:V:9:PHE:HA	9:V:12:ILE:HG21	1.45	0.96
10:Y:77:VAL:CG2	10:Y:129:ARG:HE	1.75	0.96
2:2:92:DA:H61	9:T:34:ARG:HD3	1.28	0.96
3:A:463:PHE:HB3	3:A:481:THR:HG21	1.46	0.96
3:A:495:ILE:O	3:A:497:VAL:HG13	1.64	0.96
3:A:568:LYS:NZ	3:A:713:ILE:HG12	1.79	0.96
4:B:86:THR:H	4:B:371:ARG:HB3	1.30	0.96
4:B:896:ARG:CD	4:B:986:ASP:CA	2.22	0.96
4:B:1235:LEU:HD11	4:B:1236:LYS:HG3	1.48	0.96
5:D:83:LYS:HE2	5:D:168:SER:HA	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:209:LYS:HZ2	9:T:274:ARG:CA	1.70	0.96
9:U:36:ILE:CG2	9:U:40:GLU:OE2	2.13	0.96
3:A:776:LYS:HG3	3:A:800:ARG:HE	1.29	0.96
3:A:1027:ALA:HB1	4:B:318:ILE:HD11	0.96	0.96
4:B:88:VAL:N	4:B:89:GLU:OE1	1.97	0.96
4:B:157:LEU:HB3	4:B:174:ILE:HD11	1.46	0.96
9:T:141:ASP:HA	9:T:284:ARG:HG3	1.45	0.96
10:Y:77:VAL:HG21	10:Y:129:ARG:HE	1.20	0.96
4:B:357:ILE:HB	4:B:410:ILE:CG2	1.94	0.96
9:S:162:LEU:HG	9:S:276:VAL:HG23	0.97	0.96
9:T:122:ARG:HE	9:T:124:THR:HG21	1.31	0.96
3:A:688:VAL:CG1	3:A:690:TYR:HE1	1.79	0.96
3:A:708:LEU:HD21	3:A:846:ILE:HD11	1.43	0.96
4:B:75:ALA:HB3	4:B:418:VAL:HG21	1.47	0.96
5:C:112:PHE:HD2	5:C:113:ASP:H	1.07	0.96
6:E:173:GLN:HB3	6:E:177:GLU:HB2	1.43	0.96
9:U:152:THR:O	9:U:153:THR:CG2	2.13	0.96
9:U:156:ASP:OD2	9:U:286:GLN:HA	1.64	0.96
10:X:101:LEU:CD2	10:X:103:ALA:N	2.28	0.96
3:A:1084:ILE:CG1	3:A:1086:VAL:HG13	1.95	0.96
4:B:880:GLU:HG2	4:B:901:ARG:HD3	1.20	0.96
4:B:1037:LYS:HD3	4:B:1053:GLU:H	1.31	0.96
6:E:358:GLY:HA3	6:E:379:MET:CE	1.95	0.96
9:T:132:LEU:CD1	9:T:279:VAL:CG1	2.34	0.96
9:U:242:LEU:CD2	9:U:246:ALA:HB3	1.95	0.96
9:V:72:LEU:HA	9:V:75:GLU:HB2	1.45	0.96
3:A:306:ASN:OD1	3:A:311:ILE:HB	1.64	0.96
3:A:428:GLY:H	3:A:534:ILE:HG22	1.28	0.96
4:B:53:VAL:HG13	4:B:54:ASP:H	1.29	0.96
4:B:93:LYS:HE3	4:B:376:ALA:N	1.80	0.96
6:E:61:ARG:CD	6:E:89:CYS:SG	2.54	0.96
9:S:126:LEU:HD13	9:S:145:VAL:HG21	1.45	0.96
9:T:183:VAL:CG1	9:T:184:PRO:CD	2.42	0.96
9:T:196:PHE:CD2	9:T:200:TYR:CB	2.48	0.96
9:U:176:PRO:HB2	9:U:188:LEU:HA	1.47	0.96
4:B:374:GLU:CA	4:B:416:GLN:NE2	2.28	0.95
4:B:1049:ILE:CG2	4:B:1063:LEU:HA	1.96	0.95
8:G:326:LEU:HD22	8:G:338:ARG:HG3	1.47	0.95
9:T:34:ARG:HA	9:T:50:ARG:HH22	1.23	0.95
9:U:208:GLU:C	9:U:212:ARG:HG3	1.91	0.95
9:U:296:LEU:HD23	9:U:301:ILE:CD1	1.95	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:45:TYR:HE2	10:Y:75:PHE:CE2	1.82	0.95
3:A:1052:LEU:HD11	8:G:309:PRO:HB2	1.48	0.95
4:B:286:LEU:N	4:B:1146:ARG:HD3	1.80	0.95
4:B:330:LEU:HB2	4:B:1011:LEU:HD13	1.48	0.95
4:B:880:GLU:CG	4:B:881:GLY:H	1.78	0.95
5:D:90:TYR:HE2	9:U:155:ARG:HD2	1.29	0.95
6:E:197:LEU:HD11	6:E:245:VAL:CG2	1.96	0.95
6:E:277:ARG:HH22	8:G:227:ARG:N	1.63	0.95
9:U:175:HIS:CE1	9:U:233:VAL:HG13	2.00	0.95
9:U:242:LEU:HD13	9:U:246:ALA:N	1.81	0.95
3:A:749:ARG:O	3:A:751:LEU:N	1.98	0.95
9:U:18:PHE:CE1	9:U:36:ILE:HD13	2.01	0.95
9:V:193:GLN:HG2	9:V:216:THR:OG1	1.64	0.95
3:A:699:GLU:HB2	3:A:700:ASP:CG	1.92	0.95
3:A:902:LEU:O	3:A:905:TRP:N	1.99	0.95
4:B:10:LYS:HZ2	4:B:14:ARG:HH21	0.96	0.95
4:B:439:GLU:N	4:B:1001:ARG:O	1.97	0.95
4:B:1028:ILE:HG21	4:B:1084:SER:HB3	1.46	0.95
9:T:146:MET:HB2	9:T:274:ARG:NH2	1.80	0.95
9:V:175:HIS:ND1	9:V:233:VAL:O	1.97	0.95
3:A:901:CYS:SG	3:A:975:GLY:HA3	2.07	0.95
3:A:1063:ARG:HG2	3:A:1064:PRO:HD2	1.46	0.95
4:B:724:TYR:HB2	4:B:741:VAL:HG23	1.47	0.95
6:E:46:ASN:HD21	6:E:49:THR:C	1.73	0.95
9:S:157:MET:HB3	9:U:20:LYS:HE2	1.47	0.95
9:T:196:PHE:CE2	9:T:200:TYR:CE1	2.28	0.95
9:U:91:GLU:HB2	9:U:120:GLN:HB2	1.48	0.95
9:U:146:MET:N	9:U:202:MET:HG3	1.82	0.95
9:V:128:SER:HB2	9:V:204:ARG:CD	1.96	0.95
10:X:47:LEU:HB3	10:X:69:LEU:HD23	1.45	0.95
3:A:119:LEU:HG	3:A:120:PRO:HD2	1.45	0.95
4:B:497:VAL:N	4:B:511:ALA:HA	1.82	0.95
5:C:64:GLU:HG3	5:C:164:LEU:HD22	1.47	0.95
9:S:285:LEU:CD2	9:S:290:ILE:CG2	2.45	0.95
9:T:97:ILE:HG22	9:T:100:LEU:HB2	0.96	0.95
9:V:213:LEU:HD11	9:V:261:LEU:HD11	1.44	0.95
10:Y:45:TYR:CD2	10:Y:75:PHE:CD2	2.52	0.95
3:A:402:LEU:CD2	3:A:447:LEU:HD12	1.90	0.95
4:B:157:LEU:HB3	4:B:174:ILE:CD1	1.97	0.95
4:B:299:TYR:CD1	4:B:1139:LYS:CD	2.48	0.95
6:E:104:GLY:O	6:E:105:TYR:CD1	2.19	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:107:ILE:HG13	8:G:200:HIS:HE1	1.22	0.95
8:G:336:VAL:HG22	8:G:358:PHE:CE1	2.01	0.95
9:S:12:ILE:O	9:S:15:THR:N	2.00	0.95
9:V:148:ASN:HB2	9:V:212:ARG:HH11	1.30	0.95
9:V:200:TYR:O	9:V:204:ARG:N	1.98	0.95
3:A:905:TRP:CE3	3:A:975:GLY:HA2	2.02	0.95
5:C:146:LYS:CE	5:D:189:ILE:HG13	1.95	0.95
6:E:430:LEU:HD21	6:E:475:VAL:HA	1.47	0.95
9:S:134:VAL:C	9:S:137:ASP:OD1	2.10	0.95
9:V:185:TRP:HB2	9:V:266:LEU:HD23	1.47	0.95
9:V:203:GLN:OE1	9:V:206:VAL:CG1	2.13	0.95
9:V:232:VAL:CG2	9:V:237:GLU:HB2	1.96	0.95
6:E:41:LYS:N	6:E:55:ASP:OD2	1.98	0.95
6:E:575:LYS:HB3	6:E:587:LEU:HB2	1.48	0.95
8:G:190:GLY:O	8:G:193:ARG:C	2.09	0.95
9:T:134:VAL:HA	9:T:137:ASP:HB2	1.47	0.95
9:T:209:LYS:HD2	9:T:273:THR:C	1.91	0.95
9:V:195:VAL:HB	9:V:203:GLN:NE2	1.81	0.95
1:1:23:DC:H42	9:U:34:ARG:NH2	1.61	0.95
3:A:245:GLY:HA3	8:G:87:GLN:HE22	1.32	0.95
3:A:351:MET:HA	3:A:364:LEU:CD1	1.96	0.95
4:B:157:LEU:CG	4:B:174:ILE:CD1	2.44	0.95
6:E:78:ARG:CD	8:G:347:ARG:HG2	1.96	0.95
9:T:275:ARG:NH2	9:T:277:VAL:HG22	1.81	0.95
3:A:645:SER:HG	3:A:649:THR:HG22	1.30	0.94
3:A:940:ARG:HE	3:A:949:TYR:HB3	1.32	0.94
3:A:993:ARG:HE	3:A:1012:GLN:CA	1.63	0.94
4:B:1106:VAL:O	4:B:1110:ALA:HB2	1.66	0.94
5:C:72:ARG:CG	5:C:129:THR:CB	2.43	0.94
5:D:44:LEU:CD2	5:D:178:TYR:OH	2.13	0.94
9:T:180:TYR:O	9:T:188:LEU:HD13	1.66	0.94
9:U:45:LEU:CD2	9:U:62:ARG:HB2	1.95	0.94
9:U:157:MET:CE	9:U:159:VAL:CA	2.44	0.94
9:V:49:HIS:CE1	9:V:57:THR:H	1.85	0.94
3:A:913:ARG:HH21	3:A:915:LYS:CE	1.79	0.94
4:B:304:ALA:HB2	6:E:500:PRO:HA	1.46	0.94
4:B:479:LEU:N	4:B:481:TRP:CH2	2.35	0.94
4:B:537:ILE:HD12	4:B:838:LEU:HB3	1.46	0.94
5:D:93:GLN:O	5:D:95:GLN:NE2	1.99	0.94
8:G:89:ILE:CG1	8:G:92:ILE:HD12	1.97	0.94
9:T:157:MET:CA	9:T:294:TRP:CE2	2.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:213:LEU:HD21	9:V:261:LEU:CD2	1.95	0.94
3:A:461:THR:O	3:A:481:THR:OG1	1.85	0.94
4:B:596:TYR:HB2	4:B:791:LEU:HB2	1.49	0.94
4:B:710:PRO:HD3	4:B:722:LEU:HD23	0.98	0.94
4:B:1235:LEU:HD12	4:B:1236:LYS:N	1.82	0.94
5:D:194:LEU:CD2	5:D:196:LEU:CD2	2.45	0.94
9:T:194:VAL:HG22	9:T:217:LEU:HD11	0.98	0.94
9:V:144:ILE:HA	9:V:162:LEU:HD13	1.46	0.94
10:Y:47:LEU:HD12	10:Y:75:PHE:HE2	1.18	0.94
4:B:93:LYS:HE2	4:B:93:LYS:HA	1.47	0.94
5:D:9:VAL:HG21	5:D:24:ILE:HG12	1.48	0.94
5:D:72:ARG:HD3	5:D:129:THR:HG21	0.96	0.94
5:D:112:PHE:HD2	5:D:113:ASP:H	1.07	0.94
6:E:78:ARG:HE	8:G:348:MET:HE2	0.78	0.94
6:E:432:ARG:HG2	6:E:434:PRO:CD	1.97	0.94
8:G:282:LEU:HG	8:G:283:PRO:CD	1.97	0.94
9:T:206:VAL:CG2	9:T:241:LEU:HD12	1.97	0.94
9:U:39:LEU:HD11	9:U:43:LEU:HD11	1.48	0.94
10:X:118:LEU:CG	10:X:121:LEU:HD12	1.97	0.94
3:A:51:ASN:O	3:A:54:SER:N	2.01	0.94
3:A:542:ILE:HG21	3:A:545:LEU:CB	1.96	0.94
3:A:727:ARG:NH1	3:A:729:THR:CA	2.28	0.94
6:E:213:ILE:HG22	6:E:217:LYS:CD	1.96	0.94
8:G:140:PRO:O	8:G:144:PHE:CD2	2.21	0.94
8:G:336:VAL:HG22	8:G:358:PHE:CD1	2.02	0.94
9:T:201:GLY:O	9:T:205:LEU:HB3	1.68	0.94
9:T:229:PHE:CE2	9:T:256:LEU:CD1	2.50	0.94
9:U:39:LEU:O	9:U:43:LEU:HB2	1.68	0.94
9:U:160:GLU:HG2	9:U:298:ARG:HG3	1.50	0.94
10:Y:45:TYR:CD2	10:Y:75:PHE:CB	2.50	0.94
10:Y:49:LYS:HB3	10:Y:99:GLU:HB2	1.49	0.94
4:B:267:ASP:OD1	4:B:268:LEU:HG	1.66	0.94
4:B:359:LEU:C	4:B:386:ILE:HD12	1.92	0.94
4:B:563:LEU:CD2	4:B:573:ASN:HA	1.98	0.94
9:V:285:LEU:HD12	9:V:286:GLN:H	1.32	0.94
10:X:53:LYS:HA	10:X:68:LEU:HA	1.49	0.94
10:X:126:LEU:CB	10:Y:126:LEU:HD21	1.97	0.94
3:A:822:ARG:HH21	3:A:833:ASN:HA	1.31	0.94
3:A:884:LEU:HG	3:A:885:ASN:N	1.82	0.94
6:E:131:MET:HE2	6:E:139:ILE:CD1	1.97	0.94
6:E:329:ARG:HG3	6:E:330:PRO:HD2	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:561:ASP:CA	6:E:604:GLN:HG3	1.97	0.94
8:G:376:LEU:HB2	8:G:382:ASN:HD21	1.26	0.94
9:V:105:LEU:CD1	9:V:109:LEU:HD23	1.96	0.94
9:V:147:ASN:O	9:V:147:ASN:OD1	1.85	0.94
9:V:209:LYS:HZ2	9:V:262:ALA:HB2	1.29	0.94
3:A:794:GLU:N	3:A:794:GLU:OE1	2.00	0.94
3:A:1073:LEU:HD13	6:E:338:ILE:HG21	1.48	0.94
4:B:52:SER:HG	4:B:55:ASP:H	1.09	0.94
4:B:157:LEU:HD23	4:B:174:ILE:HD12	0.96	0.94
4:B:355:GLY:CA	4:B:412:ILE:CD1	2.46	0.94
4:B:910:ILE:HD12	4:B:943:VAL:HG13	1.47	0.94
5:D:24:ILE:CD1	5:D:195:LEU:CD2	2.46	0.94
6:E:49:THR:HB	6:E:51:LYS:NZ	1.83	0.94
6:E:329:ARG:CG	6:E:330:PRO:HD2	1.98	0.94
8:G:227:ARG:O	8:G:229:ILE:N	2.01	0.94
9:T:97:ILE:HG21	9:T:100:LEU:CD1	1.94	0.94
9:T:205:LEU:HD12	9:T:206:VAL:H	1.30	0.94
9:U:142:LEU:HD21	9:U:294:TRP:HB2	0.94	0.94
9:U:206:VAL:HB	9:U:274:ARG:CG	1.97	0.94
9:V:49:HIS:HB3	9:V:52:ASN:HB2	1.48	0.94
9:V:146:MET:HG2	9:V:274:ARG:C	1.92	0.94
9:V:147:ASN:CG	9:V:151:LEU:HD23	1.92	0.94
10:X:116:PRO:HA	10:X:119:SER:HB3	1.47	0.94
3:A:704:ILE:HD11	3:A:881:ASP:O	1.66	0.94
4:B:257:ILE:HG22	4:B:258:ALA:N	1.81	0.94
4:B:1207:PHE:O	4:B:1220:LEU:HD13	1.68	0.94
4:B:1218:ARG:CD	6:E:122:PRO:CG	2.45	0.94
6:E:213:ILE:HG23	6:E:217:LYS:CD	1.98	0.94
9:S:4:GLU:CB	9:S:27:VAL:HG22	1.90	0.94
9:T:2:ARG:HH22	9:T:39:LEU:HD13	1.24	0.94
3:A:1001:VAL:HG13	3:A:1002:THR:H	1.32	0.94
4:B:554:GLN:N	4:B:561:ASN:OD1	2.01	0.94
4:B:896:ARG:NE	4:B:986:ASP:HB3	1.82	0.94
4:B:1104:ASP:HB2	4:B:1109:CYS:SG	2.08	0.94
5:C:23:PHE:HB2	5:C:196:LEU:HD21	1.50	0.94
6:E:136:VAL:HG23	6:E:139:ILE:HD12	1.50	0.94
6:E:277:ARG:NH2	8:G:227:ARG:H	1.65	0.94
6:E:444:PHE:CZ	6:E:493:ALA:HB2	1.98	0.94
9:U:45:LEU:CG	9:U:62:ARG:HB2	1.98	0.94
9:U:206:VAL:HG11	9:U:274:ARG:HH11	1.31	0.94
9:V:84:LEU:HD12	9:V:85:ILE:H	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:45:TYR:HE2	10:Y:75:PHE:CZ	1.85	0.94
10:Y:118:LEU:HG	10:Y:121:LEU:HD12	0.96	0.94
1:1:101:DT:H5"	8:G:204:TYR:CE1	2.02	0.93
3:A:320:LEU:HB3	3:A:483:ASP:OD2	1.67	0.93
3:A:347:ILE:HG22	3:A:351:MET:CG	1.98	0.93
3:A:705:SER:CB	3:A:871:MET:CE	2.43	0.93
3:A:749:ARG:HB3	3:A:749:ARG:NH1	1.83	0.93
4:B:646:LEU:HB2	4:B:662:LYS:HA	1.45	0.93
5:C:201:ASN:HD21	5:C:203:SER:HB3	1.33	0.93
5:D:48:LEU:CD2	5:D:171:MET:HG2	1.96	0.93
5:D:180:VAL:HG12	5:D:194:LEU:HD12	1.50	0.93
6:E:582:GLY:CA	6:E:596:ASP:HA	1.97	0.93
9:S:81:LEU:HA	9:T:44:GLY:HA2	1.50	0.93
9:T:126:LEU:HD13	9:T:131:ALA:CB	1.98	0.93
9:V:247:LEU:HD13	9:V:251:ARG:HG3	1.48	0.93
1:1:45:DC:H42	2:2:81:DG:H1	1.16	0.93
3:A:413:GLU:N	3:A:413:GLU:OE1	2.02	0.93
3:A:1021:GLU:HB3	6:E:441:ILE:HD11	1.49	0.93
5:D:183:VAL:HG12	5:D:184:ARG:N	1.84	0.93
9:T:95:ALA:HB1	9:T:126:LEU:CD1	1.98	0.93
9:T:183:VAL:HG12	9:T:184:PRO:CD	1.98	0.93
9:T:202:MET:N	9:T:205:LEU:HD23	1.82	0.93
9:V:196:PHE:CD2	9:V:206:VAL:HG21	2.03	0.93
3:A:675:THR:OG1	3:A:678:GLY:N	2.01	0.93
3:A:699:GLU:HB2	3:A:700:ASP:OD2	1.68	0.93
4:B:241:GLY:HA2	4:B:301:TRP:HB2	1.50	0.93
4:B:347:GLN:NE2	4:B:353:MET:O	2.02	0.93
4:B:540:ILE:HG23	4:B:833:VAL:CG1	1.95	0.93
4:B:618:LYS:HG2	4:B:619:LEU:HD23	1.48	0.93
4:B:940:ILE:HG12	4:B:942:GLY:H	1.31	0.93
6:E:191:GLU:HA	6:E:194:LEU:CD2	1.99	0.93
6:E:346:ARG:CG	6:E:350:LEU:CD2	2.45	0.93
8:G:374:ARG:HG2	8:G:377:ARG:NH2	1.82	0.93
9:T:45:LEU:HD21	9:T:59:GLY:C	1.90	0.93
9:T:170:LEU:CD1	9:T:229:PHE:CE2	2.51	0.93
9:U:12:ILE:HG23	9:U:18:PHE:CE1	2.00	0.93
9:U:12:ILE:HD13	9:U:36:ILE:HD11	1.48	0.93
9:V:194:VAL:HG11	9:V:221:LEU:CD1	1.96	0.93
1:1:22:DG:H8	1:1:22:DG:H5"	1.34	0.93
3:A:215:HIS:NE2	3:A:219:PHE:HE2	1.66	0.93
3:A:427:TYR:HD2	3:A:511:ARG:NH1	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:532:VAL:CG1	3:A:535:VAL:HG11	1.98	0.93
3:A:888:GLY:HA3	3:A:892:ARG:HH12	1.30	0.93
4:B:83:GLY:O	4:B:973:ARG:N	2.02	0.93
4:B:225:MET:HG2	4:B:232:LEU:CD2	1.98	0.93
6:E:291:GLU:HG2	6:E:292:ILE:N	1.80	0.93
8:G:89:ILE:HG12	8:G:92:ILE:HD12	1.48	0.93
8:G:336:VAL:HG13	8:G:358:PHE:CE2	2.04	0.93
9:T:146:MET:CE	9:T:205:LEU:HD23	1.98	0.93
9:T:183:VAL:H	9:T:261:LEU:HD11	1.31	0.93
9:U:12:ILE:CG2	9:U:36:ILE:CD1	2.39	0.93
9:U:135:LEU:HD12	9:U:140:VAL:HG12	1.49	0.93
9:U:161:VAL:HG23	9:U:162:LEU:H	1.34	0.93
9:V:86:ALA:CB	9:V:287:ILE:CD1	2.46	0.93
10:X:78:LEU:HD23	10:X:78:LEU:O	1.68	0.93
1:1:22:DG:H5"	1:1:22:DG:C8	2.02	0.93
4:B:199:ARG:HD2	4:B:1214:GLN:HG2	1.51	0.93
4:B:442:VAL:HA	4:B:998:VAL:HA	1.49	0.93
4:B:602:GLY:H	4:B:634:GLU:HG2	1.30	0.93
5:C:146:LYS:HE2	5:D:189:ILE:CG1	1.96	0.93
5:D:98:ARG:HA	5:D:139:GLU:HG3	1.50	0.93
5:D:201:ASN:HD21	5:D:203:SER:HB3	1.33	0.93
6:E:287:ALA:O	6:E:290:GLN:N	2.02	0.93
9:S:226:LEU:HA	9:S:229:PHE:CD2	2.04	0.93
9:T:95:ALA:HB1	9:T:126:LEU:HD11	1.51	0.93
9:V:9:PHE:CA	9:V:12:ILE:CG2	2.26	0.93
3:A:134:GLU:N	3:A:134:GLU:OE1	2.00	0.93
3:A:485:GLU:HG3	3:A:486:ASP:N	1.83	0.93
3:A:584:ARG:HD2	3:A:591:VAL:HG11	1.47	0.93
4:B:440:LYS:NZ	4:B:1000:GLU:OE1	2.01	0.93
4:B:489:ASN:CB	4:B:895:ARG:CZ	2.42	0.93
4:B:834:ILE:HG22	4:B:835:LEU:N	1.79	0.93
4:B:1155:ASP:O	4:B:1157:GLY:N	2.02	0.93
5:C:16:SER:HB2	5:C:19:HIS:CE1	2.04	0.93
5:C:41:ARG:NH2	5:C:176:VAL:HG13	1.83	0.93
9:T:197:LYS:O	9:T:203:GLN:HG2	1.68	0.93
3:A:546:GLU:HB3	3:A:919:PHE:HA	1.49	0.93
3:A:644:ARG:HD3	3:A:720:GLU:HA	1.49	0.93
3:A:826:ASP:CB	3:A:828:LEU:HD23	1.98	0.93
4:B:90:ARG:HB3	4:B:372:HIS:HB2	1.50	0.93
4:B:245:GLY:CA	4:B:260:ARG:HD2	1.98	0.93
4:B:510:LEU:HD22	4:B:877:LEU:HA	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:28:LEU:HD13	5:C:33:GLY:CA	1.98	0.93
6:E:362:ILE:CD1	6:E:473:MET:SD	2.57	0.93
8:G:303:GLU:OE2	8:G:305:ASP:N	2.01	0.93
9:S:126:LEU:HB3	9:S:140:VAL:HG21	1.50	0.93
9:U:166:PRO:HG2	9:U:244:SER:OG	1.68	0.93
9:V:164:ASP:O	9:V:165:GLU:HG2	1.67	0.93
9:V:232:VAL:HG23	9:V:238:LEU:CD2	1.98	0.93
3:A:546:GLU:CD	3:A:920:ASP:H	1.77	0.93
3:A:913:ARG:HH21	3:A:915:LYS:HE2	1.32	0.93
4:B:358:LYS:HG3	4:B:391:LYS:N	1.83	0.93
4:B:1001:ARG:HG2	4:B:1002:ALA:N	1.81	0.93
5:C:42:ARG:O	5:C:46:SER:N	2.02	0.93
5:D:149:ARG:HD2	6:E:549:GLN:NE2	1.83	0.93
6:E:536:ALA:HB3	6:E:538:LEU:HD23	1.51	0.93
9:S:231:GLY:HA3	9:U:109:LEU:HD13	0.95	0.93
9:S:285:LEU:CD2	9:S:290:ILE:HG22	1.98	0.93
9:T:146:MET:CB	9:T:274:ARG:HH21	1.81	0.93
9:T:206:VAL:CG1	9:T:241:LEU:HG	1.97	0.93
9:T:275:ARG:HE	9:T:276:VAL:H	1.15	0.93
3:A:746:ASP:O	3:A:749:ARG:NH1	2.01	0.93
4:B:63:ARG:NE	4:B:67:GLU:OE1	2.01	0.93
5:D:213:ALA:O	5:D:216:ILE:N	2.02	0.93
9:V:84:LEU:CD1	9:V:85:ILE:H	1.81	0.93
3:A:464:ARG:HD3	3:A:529:VAL:HA	1.49	0.93
3:A:863:SER:OG	3:A:864:ARG:N	1.79	0.93
3:A:895:VAL:O	3:A:897:GLN:N	2.01	0.93
4:B:537:ILE:O	4:B:837:SER:HA	1.67	0.93
4:B:759:SER:OG	4:B:761:GLN:OE1	1.87	0.93
6:E:434:PRO:HB2	6:E:436:LEU:HD22	1.50	0.93
6:E:608:THR:HB	6:E:612:ARG:HD2	1.46	0.93
8:G:222:ILE:HG13	8:G:223:ALA:N	1.84	0.93
9:T:142:LEU:CD2	9:T:293:PHE:HD2	1.81	0.93
4:B:479:LEU:HB2	4:B:481:TRP:CZ3	2.03	0.92
5:C:57:ARG:CB	5:C:162:ASP:OD2	2.18	0.92
9:S:147:ASN:HB2	9:S:161:VAL:CG1	1.98	0.92
9:S:157:MET:HE3	9:S:279:VAL:HG11	1.48	0.92
9:T:196:PHE:HD2	9:T:200:TYR:CG	1.79	0.92
9:V:130:ARG:HA	9:V:133:LYS:HG2	1.51	0.92
9:V:188:LEU:HD11	9:V:189:VAL:HG12	1.50	0.92
3:A:959:VAL:HG12	3:A:959:VAL:O	1.69	0.92
4:B:365:THR:HA	4:B:376:ALA:HB2	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1226:GLU:N	4:B:1226:GLU:OE1	2.02	0.92
9:V:163:TYR:HB3	9:V:274:ARG:HG2	1.51	0.92
10:X:46:PHE:HD2	10:X:101:LEU:HB2	1.28	0.92
10:Y:53:LYS:HA	10:Y:68:LEU:HA	1.48	0.92
10:Y:212:VAL:CG2	10:Y:218:LEU:CD2	2.47	0.92
3:A:534:ILE:HD13	4:B:173:ILE:HD11	1.50	0.92
3:A:1004:GLN:OE1	3:A:1042:SER:OG	1.87	0.92
3:A:1046:GLN:OE1	3:A:1046:GLN:N	2.02	0.92
4:B:235:LEU:HD11	4:B:239:LEU:HD12	0.93	0.92
5:C:57:ARG:CB	5:C:139:GLU:HG3	1.83	0.92
5:C:221:PHE:HZ	5:D:40:LEU:CD1	1.80	0.92
6:E:191:GLU:HG3	6:E:194:LEU:CD2	1.97	0.92
6:E:252:ILE:HD12	6:E:334:LEU:HD11	1.51	0.92
9:T:170:LEU:HD12	9:T:233:VAL:HG23	0.95	0.92
9:T:202:MET:CA	9:T:205:LEU:HD23	1.70	0.92
9:U:100:LEU:HD11	9:U:276:VAL:HG21	1.52	0.92
9:U:144:ILE:HG23	9:U:276:VAL:CG1	1.99	0.92
9:U:171:THR:OG1	9:U:178:ALA:HB2	1.69	0.92
9:U:243:PRO:HD2	9:U:274:ARG:HD2	0.94	0.92
9:V:167:ILE:HG21	9:V:209:LYS:NZ	1.85	0.92
9:V:180:TYR:HE1	9:V:239:ILE:HD11	1.32	0.92
3:A:221:LYS:HZ3	3:A:225:LYS:HG2	1.26	0.92
3:A:645:SER:CB	3:A:649:THR:HG22	1.98	0.92
4:B:74:ARG:HB3	4:B:74:ARG:CZ	1.97	0.92
5:C:16:SER:HB2	5:C:19:HIS:HE1	1.30	0.92
9:T:162:LEU:C	9:T:301:ILE:CG2	2.41	0.92
9:T:293:PHE:O	9:T:296:LEU:N	2.01	0.92
9:U:142:LEU:HD11	9:U:278:MET:CE	2.00	0.92
9:U:224:ASN:O	9:U:224:ASN:OD1	1.87	0.92
9:V:142:LEU:HD22	9:V:278:MET:SD	2.07	0.92
1:1:112:DG:H5'	3:A:150:LYS:HZ2	1.30	0.92
3:A:304:LEU:HD22	3:A:307:LEU:HD11	1.52	0.92
3:A:705:SER:HB2	3:A:871:MET:HE1	1.42	0.92
4:B:9:ASP:CG	4:B:12:GLN:H	1.77	0.92
4:B:563:LEU:HA	4:B:573:ASN:HA	1.51	0.92
4:B:1225:ILE:CG2	6:E:234:PHE:CE1	2.49	0.92
6:E:537:SER:CB	6:E:558:VAL:HG12	1.99	0.92
8:G:319:ARG:HH21	8:G:344:ASP:CA	1.82	0.92
8:G:339:LEU:HB3	8:G:343:LEU:HB3	1.52	0.92
9:U:243:PRO:HD2	9:U:274:ARG:NE	1.83	0.92
9:V:105:LEU:CD1	9:V:109:LEU:CD2	2.48	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:147:ASN:HD21	9:V:155:ARG:HH21	1.17	0.92
9:V:216:THR:OG1	9:V:218:GLN:OE1	1.87	0.92
3:A:727:ARG:HH11	3:A:729:THR:HA	1.11	0.92
4:B:502:ASP:O	4:B:884:VAL:N	2.02	0.92
4:B:1013:ARG:O	4:B:1014:ILE:HG13	1.69	0.92
9:S:32:ILE:HD11	9:S:36:ILE:CD1	2.00	0.92
9:S:207:GLN:O	9:S:211:GLU:CB	2.17	0.92
9:U:77:ALA:HB1	9:V:66:ARG:CZ	1.99	0.92
9:U:91:GLU:O	9:U:92:LEU:HD12	1.69	0.92
9:V:9:PHE:HB2	9:V:36:ILE:HD11	1.51	0.92
10:Y:47:LEU:CD1	10:Y:75:PHE:HE2	1.81	0.92
3:A:232:GLU:CA	3:A:236:MET:HG2	1.98	0.92
3:A:235:LEU:HD11	3:A:248:PRO:CB	2.00	0.92
3:A:1043:ASP:OD2	3:A:1068:GLU:N	2.03	0.92
4:B:1049:ILE:HG21	4:B:1064:GLY:H	1.31	0.92
4:B:1211:ALA:HA	4:B:1216:THR:CA	2.00	0.92
5:C:51:THR:HG23	5:C:144:ARG:HH11	1.33	0.92
6:E:20:GLU:N	6:E:20:GLU:OE1	2.02	0.92
6:E:423:ILE:HD12	6:E:448:LEU:HB2	1.50	0.92
8:G:329:LEU:HD11	8:G:334:ARG:CA	1.98	0.92
9:V:207:GLN:HG3	9:V:217:LEU:HD11	1.48	0.92
3:A:563:ALA:HA	3:A:982:LEU:HD21	1.47	0.92
4:B:47:ALA:HB2	6:E:519:TYR:CE2	2.05	0.92
5:C:40:LEU:O	5:C:43:VAL:N	2.03	0.92
9:S:46:GLU:O	9:S:57:THR:HG23	1.70	0.92
9:S:81:LEU:O	9:S:81:LEU:CD2	2.18	0.92
9:S:208:GLU:HB3	9:S:267:PRO:HB2	1.49	0.92
9:S:285:LEU:HD21	9:S:290:ILE:CG2	2.00	0.92
9:T:2:ARG:NH1	9:T:39:LEU:HD11	1.85	0.92
9:T:226:LEU:HG	9:T:230:ARG:HH22	1.34	0.92
10:X:134:GLU:HA	10:X:137:ILE:HD12	1.50	0.92
3:A:532:VAL:CG1	3:A:535:VAL:CG1	2.48	0.92
3:A:628:THR:O	3:A:633:GLN:NE2	2.03	0.92
3:A:928:SER:OG	3:A:929:ARG:N	1.84	0.92
4:B:139:GLN:HB2	4:B:144:ARG:HG2	1.52	0.92
4:B:479:LEU:CG	4:B:481:TRP:CZ2	2.53	0.92
6:E:193:LEU:O	6:E:197:LEU:HG	1.69	0.92
6:E:385:GLN:NE2	6:E:408:ILE:HD11	1.85	0.92
6:E:456:LEU:HD23	6:E:456:LEU:N	1.82	0.92
9:U:108:VAL:CG1	9:U:301:ILE:HG23	2.00	0.92
4:B:1049:ILE:HG22	4:B:1063:LEU:HA	1.49	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:76:LEU:O	5:C:80:MET:CG	2.17	0.92
6:E:252:ILE:HD12	6:E:334:LEU:CD1	1.99	0.92
6:E:444:PHE:HE1	6:E:493:ALA:CB	1.58	0.92
9:T:142:LEU:CD2	9:T:285:LEU:HD11	2.00	0.92
3:A:127:THR:CG2	3:A:387:MET:CE	2.48	0.91
4:B:71:GLU:HA	4:B:74:ARG:HG3	1.53	0.91
4:B:439:GLU:O	4:B:1001:ARG:N	2.03	0.91
4:B:1001:ARG:NH1	4:B:1002:ALA:O	2.02	0.91
4:B:1222:GLU:CG	6:E:124:TYR:OH	2.17	0.91
6:E:372:GLN:HA	6:E:445:GLU:H	1.35	0.91
7:F:32:THR:O	7:F:35:VAL:HG22	1.68	0.91
7:F:65:MET:HB3	7:F:69:LEU:HD11	1.52	0.91
8:G:111:LEU:C	8:G:115:ARG:HE	1.78	0.91
9:U:296:LEU:HG	9:U:301:ILE:HG13	0.92	0.91
9:V:175:HIS:HD1	9:V:233:VAL:C	1.77	0.91
9:V:205:LEU:CG	9:V:272:LEU:HD21	1.99	0.91
9:V:292:HIS:HD2	9:V:296:LEU:CD1	1.58	0.91
1:1:95:DT:OP1	8:G:230:ARG:NH2	2.02	0.91
3:A:81:VAL:CG2	3:A:123:THR:HG23	1.99	0.91
3:A:656:LEU:HB2	3:A:671:ASP:CG	1.94	0.91
3:A:1027:ALA:HB1	6:E:438:ARG:HH11	1.33	0.91
4:B:863:ASP:HB2	4:B:866:VAL:CG2	1.99	0.91
6:E:142:PHE:CZ	6:E:300:ARG:O	2.23	0.91
6:E:389:ILE:CG2	6:E:405:LYS:HE3	2.00	0.91
6:E:583:SER:HB2	6:E:594:ARG:CZ	2.00	0.91
8:G:139:LEU:O	8:G:144:PHE:CD2	2.23	0.91
9:U:297:VAL:HA	9:U:302:PRO:CD	1.99	0.91
10:Y:78:LEU:CD1	10:Y:90:TYR:OH	2.16	0.91
3:A:993:ARG:HD3	3:A:1012:GLN:CA	1.90	0.91
3:A:1004:GLN:HE21	3:A:1005:PRO:HD3	1.36	0.91
6:E:290:GLN:O	6:E:293:LEU:N	2.02	0.91
6:E:608:THR:HG21	6:E:612:ARG:CD	2.00	0.91
3:A:280:LYS:HG2	3:A:281:LEU:HD22	1.52	0.91
3:A:571:ARG:NE	3:A:676:GLU:OE2	2.01	0.91
4:B:126:ALA:O	4:B:129:GLY:N	2.02	0.91
4:B:532:LYS:NZ	4:B:844:ILE:HG12	1.85	0.91
4:B:863:ASP:CG	4:B:866:VAL:HG22	1.93	0.91
6:E:27:GLU:HA	6:E:37:GLY:CA	2.00	0.91
9:T:293:PHE:CE2	9:T:297:VAL:HG22	2.06	0.91
10:X:78:LEU:CD1	10:X:90:TYR:OH	2.17	0.91
3:A:1038:LEU:HD12	6:E:352:LYS:NZ	1.85	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:244:VAL:HG22	4:B:282:VAL:HA	0.95	0.91
6:E:362:ILE:CD1	6:E:473:MET:HG2	1.99	0.91
9:S:226:LEU:HD21	9:U:227:ASP:HB3	1.52	0.91
9:U:95:ALA:O	9:U:293:PHE:HZ	1.41	0.91
2:2:92:DA:N6	9:T:34:ARG:NE	2.16	0.91
3:A:58:ASP:HA	3:A:352:THR:OG1	1.69	0.91
3:A:588:MET:SD	3:A:651:LEU:HD11	2.09	0.91
4:B:12:GLN:HA	4:B:15:ASN:ND2	1.84	0.91
4:B:916:VAL:HB	4:B:943:VAL:HG12	1.52	0.91
6:E:346:ARG:HG3	6:E:350:LEU:CD2	2.00	0.91
6:E:459:LEU:CD2	6:E:507:ILE:HG23	2.01	0.91
8:G:107:ILE:HG13	8:G:200:HIS:NE2	1.86	0.91
9:T:156:ASP:HB2	9:T:291:LYS:CD	1.99	0.91
9:T:157:MET:CB	9:T:294:TRP:CZ2	2.52	0.91
9:T:209:LYS:HE2	9:T:212:ARG:CZ	2.00	0.91
9:V:203:GLN:HA	9:V:206:VAL:H	1.35	0.91
10:Y:78:LEU:HD23	10:Y:78:LEU:O	1.70	0.91
3:A:202:LEU:HD12	3:A:294:SER:CB	1.98	0.91
3:A:538:ALA:CB	3:A:561:ARG:HG2	2.00	0.91
3:A:606:ILE:O	3:A:609:ARG:HD2	1.70	0.91
3:A:752:ASP:OD1	3:A:753:GLU:HG2	1.70	0.91
4:B:144:ARG:HB2	4:B:159:ILE:CG2	2.01	0.91
4:B:511:ALA:HB3	4:B:876:ILE:HG12	1.53	0.91
5:C:42:ARG:O	5:C:45:LEU:N	2.04	0.91
6:E:443:ALA:O	6:E:444:PHE:HD1	1.53	0.91
8:G:232:PRO:O	8:G:236:TYR:HD2	1.47	0.91
9:S:168:GLU:HB2	9:S:247:LEU:HD21	1.51	0.91
9:T:226:LEU:CG	9:T:230:ARG:HH22	1.84	0.91
10:Y:177:GLN:NE2	10:Y:190:VAL:CG2	2.32	0.91
3:A:171:ALA:H	3:A:267:TYR:HE1	1.17	0.91
4:B:443:LYS:N	4:B:997:LEU:O	2.02	0.91
4:B:1205:ASP:CG	4:B:1213:PHE:HZ	1.79	0.91
5:C:83:LYS:HE2	5:C:168:SER:HA	1.52	0.91
6:E:362:ILE:HD11	6:E:473:MET:CG	2.00	0.91
6:E:457:HIS:CE1	6:E:459:LEU:H	1.89	0.91
9:T:146:MET:HG3	9:T:275:ARG:O	1.71	0.91
9:U:92:LEU:HB3	9:U:290:ILE:HD11	1.53	0.91
10:Y:212:VAL:CG1	10:Y:218:LEU:CD2	2.43	0.91
3:A:542:ILE:HD13	3:A:545:LEU:HD13	1.52	0.91
3:A:558:ASN:HA	3:A:561:ARG:HD2	1.51	0.91
4:B:267:ASP:OD1	4:B:268:LEU:N	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:669:SER:O	4:B:689:GLY:N	2.01	0.91
4:B:1134:ILE:HG22	4:B:1135:ASP:N	1.75	0.91
4:B:1211:ALA:CA	4:B:1216:THR:HA	2.01	0.91
8:G:141:LEU:N	8:G:144:PHE:CE2	2.39	0.91
10:X:212:VAL:HG22	10:X:214:LYS:H	1.33	0.91
3:A:464:ARG:HD2	3:A:529:VAL:HA	1.53	0.91
6:E:389:ILE:CG2	6:E:405:LYS:CD	2.48	0.91
8:G:290:ILE:HG12	8:G:296:SER:CB	1.99	0.91
9:U:108:VAL:CB	9:U:296:LEU:HD21	1.99	0.91
9:V:181:GLU:O	9:V:184:PRO:HD3	1.70	0.91
3:A:252:GLY:O	3:A:255:GLN:NE2	2.03	0.90
6:E:286:LEU:O	6:E:290:GLN:NE2	2.04	0.90
9:U:92:LEU:CB	9:U:290:ILE:CD1	2.48	0.90
10:Y:95:PHE:CE2	10:Y:172:LEU:HD13	2.05	0.90
4:B:27:ALA:HB2	7:F:19:GLU:CG	1.97	0.90
4:B:149:ASP:OD1	4:B:151:GLN:N	2.04	0.90
4:B:1126:GLN:CD	4:B:1136:ILE:CG1	2.44	0.90
9:S:157:MET:SD	9:S:279:VAL:CG1	2.59	0.90
9:T:255:THR:OG1	9:V:252:LEU:CD1	2.20	0.90
9:V:188:LEU:CD1	9:V:189:VAL:CG1	2.48	0.90
3:A:81:VAL:HG21	3:A:123:THR:HG23	1.49	0.90
3:A:1000:LEU:N	8:G:302:ILE:O	2.04	0.90
4:B:659:GLU:OE2	4:B:666:CYS:SG	2.30	0.90
6:E:43:GLU:O	6:E:57:LEU:N	2.03	0.90
6:E:105:TYR:HD1	6:E:250:PRO:CA	1.78	0.90
6:E:444:PHE:CE1	6:E:493:ALA:CA	2.48	0.90
9:S:99:SER:HA	9:S:243:PRO:HD2	1.52	0.90
9:S:168:GLU:HB2	9:S:247:LEU:HD23	1.53	0.90
9:U:167:ILE:CD1	9:U:272:LEU:CB	2.47	0.90
10:Y:34:ILE:H	10:Y:91:HIS:HE1	1.15	0.90
4:B:13:LEU:O	4:B:16:LEU:N	2.05	0.90
4:B:517:THR:HG23	4:B:865:ILE:CG2	1.99	0.90
4:B:852:SER:CB	4:B:877:LEU:CD2	2.49	0.90
4:B:1032:ARG:HG2	4:B:1078:PRO:CD	2.01	0.90
4:B:1207:PHE:HB3	4:B:1230:ASP:CG	1.95	0.90
6:E:40:THR:N	6:E:55:ASP:OD2	2.03	0.90
6:E:78:ARG:HD3	8:G:347:ARG:CG	2.01	0.90
7:F:37:ASN:HA	7:F:40:LYS:HZ3	1.36	0.90
8:G:183:LEU:O	8:G:183:LEU:HD23	1.70	0.90
3:A:1055:ILE:HD11	6:E:387:PHE:CZ	2.05	0.90
4:B:106:LYS:O	4:B:109:VAL:N	2.05	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:548:GLN:HA	4:B:827:VAL:HG21	1.52	0.90
4:B:1222:GLU:HG3	6:E:124:TYR:CZ	2.06	0.90
5:D:44:LEU:HD13	5:D:210:LEU:HA	1.52	0.90
9:T:135:LEU:HD13	9:T:278:MET:HE2	1.53	0.90
9:T:162:LEU:C	9:T:301:ILE:HG21	1.96	0.90
9:U:12:ILE:HG12	9:U:18:PHE:HA	1.53	0.90
9:U:142:LEU:HB3	9:U:281:THR:H	1.36	0.90
3:A:359:LEU:H	3:A:359:LEU:HD12	1.33	0.90
4:B:144:ARG:HB3	4:B:159:ILE:HG21	1.53	0.90
6:E:379:MET:CE	6:E:475:VAL:CB	2.48	0.90
9:U:197:LYS:HB2	9:U:224:ASN:HA	1.54	0.90
9:U:259:ARG:HD2	9:U:260:PRO:CD	2.02	0.90
2:2:110:DT:C2'	2:2:111:DT:H71	2.02	0.90
3:A:302:ASP:OD1	3:A:302:ASP:N	1.98	0.90
3:A:304:LEU:HD23	3:A:307:LEU:HD21	1.54	0.90
4:B:146:LEU:HD11	4:B:154:ILE:HD11	1.53	0.90
4:B:510:LEU:CD2	4:B:878:SER:N	2.34	0.90
4:B:639:VAL:CG1	4:B:641:LYS:HE2	2.02	0.90
4:B:916:VAL:HG12	4:B:942:GLY:HA2	1.53	0.90
6:E:194:LEU:HA	6:E:197:LEU:CD1	2.02	0.90
6:E:621:GLU:HA	6:E:625:SER:CA	2.02	0.90
8:G:288:THR:OG1	8:G:289:PRO:HD2	1.71	0.90
9:T:175:HIS:HE1	9:T:177:LEU:CB	1.72	0.90
9:U:183:VAL:HG23	9:U:262:ALA:HB3	1.53	0.90
3:A:492:PRO:HD3	3:A:510:VAL:HA	1.50	0.90
3:A:984:HIS:CD2	3:A:989:LYS:HE3	2.07	0.90
4:B:330:LEU:HD12	4:B:1011:LEU:HD12	1.54	0.90
6:E:420:GLU:C	6:E:423:ILE:HG12	1.95	0.90
8:G:173:TYR:HB3	8:G:183:LEU:HD11	1.52	0.90
8:G:282:LEU:CG	8:G:283:PRO:CD	2.50	0.90
9:S:186:SER:HB3	9:S:214:GLU:HB2	1.52	0.90
9:T:157:MET:HA	9:T:294:TRP:CE2	2.06	0.90
9:T:172:ALA:CB	9:T:233:VAL:CG1	2.49	0.90
9:T:229:PHE:HE2	9:T:256:LEU:HD11	1.35	0.90
9:T:275:ARG:HH21	9:T:277:VAL:CG2	1.80	0.90
9:U:108:VAL:HG12	9:U:301:ILE:HG23	1.52	0.90
9:V:155:ARG:HA	9:V:279:VAL:HG11	1.53	0.90
3:A:127:THR:CG2	3:A:387:MET:SD	2.60	0.90
3:A:706:GLU:OE2	3:A:868:ILE:N	2.05	0.90
4:B:66:LEU:O	4:B:69:ALA:N	2.04	0.90
6:E:78:ARG:HG3	8:G:346:GLY:C	1.97	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:142:PHE:HZ	6:E:300:ARG:O	1.55	0.90
9:T:109:LEU:HD23	9:T:113:CYS:HG	1.35	0.90
9:T:171:THR:CB	9:T:175:HIS:CE1	2.54	0.90
9:T:226:LEU:CD2	9:T:230:ARG:HH22	1.84	0.90
9:U:12:ILE:HG21	9:U:36:ILE:HD13	1.52	0.90
9:V:173:ALA:HA	9:V:178:ALA:HB2	1.54	0.90
3:A:905:TRP:NE1	3:A:909:THR:CG2	2.35	0.90
4:B:461:GLU:N	4:B:473:THR:O	2.03	0.90
5:D:217:LEU:HB2	5:D:221:PHE:HB3	1.52	0.90
6:E:346:ARG:CG	6:E:350:LEU:HB3	2.02	0.90
9:S:167:ILE:CG2	9:S:209:LYS:HB3	2.02	0.90
9:U:18:PHE:CD1	9:U:36:ILE:CD1	2.55	0.90
3:A:1077:LEU:HD21	6:E:338:ILE:HD11	1.54	0.89
4:B:1218:ARG:CD	6:E:122:PRO:HD3	2.00	0.89
6:E:252:ILE:CD1	6:E:334:LEU:CD1	2.50	0.89
6:E:378:GLU:CD	6:E:452:ARG:HG2	1.96	0.89
6:E:582:GLY:HA2	6:E:597:ALA:H	1.36	0.89
9:S:164:ASP:HB3	9:S:275:ARG:HG2	1.54	0.89
9:U:155:ARG:O	9:U:157:MET:HG2	1.73	0.89
9:U:177:LEU:HB2	9:U:188:LEU:HB3	1.53	0.89
9:U:278:MET:CE	9:U:293:PHE:C	2.37	0.89
9:U:296:LEU:HD23	9:U:301:ILE:HD11	1.53	0.89
2:2:97:DG:C5'	9:S:155:ARG:HG3	2.00	0.89
3:A:463:PHE:HB3	3:A:481:THR:CG2	2.01	0.89
3:A:702:ILE:N	3:A:861:ILE:O	2.05	0.89
4:B:136:GLN:CD	4:B:136:GLN:H	1.78	0.89
4:B:729:GLU:HG3	4:B:737:LEU:HB3	1.52	0.89
4:B:1207:PHE:HA	4:B:1220:LEU:HD13	1.08	0.89
5:D:217:LEU:HD23	5:D:217:LEU:H	1.36	0.89
8:G:326:LEU:CD2	8:G:338:ARG:HG3	2.02	0.89
9:U:243:PRO:CG	9:U:274:ARG:CD	2.48	0.89
3:A:221:LYS:HZ3	3:A:225:LYS:CG	1.84	0.89
3:A:288:THR:O	3:A:290:ARG:NH1	2.04	0.89
6:E:145:TYR:OH	6:E:167:TRP:CG	2.26	0.89
6:E:548:GLU:HG3	6:E:549:GLN:H	1.38	0.89
9:S:157:MET:HB3	9:U:20:LYS:NZ	1.85	0.89
9:T:208:GLU:HA	9:T:211:GLU:HB2	1.54	0.89
10:Y:34:ILE:H	10:Y:91:HIS:CE1	1.90	0.89
7:F:34:GLN:N	7:F:34:GLN:OE1	2.06	0.89
9:S:168:GLU:CB	9:S:247:LEU:HD21	2.02	0.89
9:V:196:PHE:CE1	9:V:224:ASN:HA	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:47:LEU:HD12	10:Y:75:PHE:CZ	2.06	0.89
3:A:258:ASP:OD1	3:A:258:ASP:N	1.95	0.89
3:A:452:ARG:NH1	3:A:460:GLU:OE1	2.06	0.89
3:A:705:SER:CB	3:A:871:MET:SD	2.60	0.89
6:E:459:LEU:HD23	6:E:507:ILE:HG23	1.55	0.89
8:G:339:LEU:HD23	8:G:343:LEU:CD2	2.03	0.89
9:T:196:PHE:CD2	9:T:200:TYR:HB2	2.07	0.89
9:T:220:ALA:HA	9:V:120:GLN:HA	1.52	0.89
9:T:285:LEU:HA	9:T:290:ILE:HG21	1.55	0.89
9:V:209:LYS:HA	9:V:213:LEU:CB	2.01	0.89
3:A:570:GLU:OE2	3:A:571:ARG:N	2.06	0.89
4:B:27:ALA:HB3	7:F:19:GLU:CG	2.01	0.89
4:B:200:LEU:HD23	4:B:1197:ILE:HD13	1.55	0.89
4:B:645:LEU:HB2	4:B:662:LYS:HD3	1.54	0.89
4:B:694:VAL:HA	4:B:736:LEU:HD22	1.55	0.89
7:F:30:ARG:O	7:F:33:VAL:HG22	1.72	0.89
8:G:94:LEU:HD23	8:G:96:ARG:O	1.71	0.89
8:G:193:ARG:NE	8:G:196:GLU:OE2	2.04	0.89
9:T:47:LEU:HB2	9:T:57:THR:HB	1.54	0.89
9:T:158:VAL:HG22	9:T:159:VAL:H	1.38	0.89
9:V:164:ASP:O	9:V:165:GLU:CG	2.20	0.89
9:V:226:LEU:HG	9:V:229:PHE:HD1	1.35	0.89
10:Y:47:LEU:HA	10:Y:100:LEU:CG	2.03	0.89
1:1:44:DG:N2	2:2:82:DC:O2	2.05	0.89
4:B:285:PRO:C	4:B:287:THR:H	1.78	0.89
4:B:1151:LYS:CD	4:B:1169:GLU:HB3	2.01	0.89
5:C:221:PHE:CE1	5:D:36:VAL:HA	2.07	0.89
5:D:63:HIS:CD2	5:D:65:PHE:H	1.89	0.89
6:E:78:ARG:NE	8:G:348:MET:CE	2.24	0.89
6:E:398:VAL:HG12	6:E:399:ASN:N	1.88	0.89
8:G:80:ASP:OD2	8:G:83:ARG:N	2.06	0.89
9:T:123:VAL:HG21	9:V:223:VAL:HG23	1.52	0.89
9:V:49:HIS:CE1	9:V:57:THR:CG2	2.55	0.89
3:A:463:PHE:CD1	3:A:526:TYR:CD1	2.60	0.89
3:A:940:ARG:CD	3:A:949:TYR:CD2	2.56	0.89
4:B:542:ALA:HB3	4:B:833:VAL:CA	2.03	0.89
4:B:870:VAL:HG12	4:B:873:ARG:HH22	1.37	0.89
6:E:46:ASN:OD1	6:E:48:ARG:N	2.06	0.89
7:F:58:VAL:HG13	7:F:59:LEU:N	1.86	0.89
9:S:70:ILE:HG23	9:T:66:ARG:HD2	1.55	0.89
9:T:171:THR:HG23	9:T:175:HIS:CE1	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:296:LEU:CD1	9:U:301:ILE:N	2.35	0.89
2:2:62:DA:N6	10:Y:187:ARG:HE	1.71	0.89
3:A:68:LEU:HD11	3:A:70:HIS:NE2	1.88	0.89
3:A:90:THR:HG22	3:A:131:ASN:H	0.74	0.89
3:A:433:ILE:CG2	3:A:539:THR:HG22	2.03	0.89
5:C:63:HIS:CD2	5:C:65:PHE:H	1.89	0.89
5:D:57:ARG:NH2	5:D:155:ARG:HH22	1.70	0.89
6:E:261:GLN:O	6:E:262:LEU:HD23	1.73	0.89
6:E:305:MET:HE1	8:G:181:GLN:HG2	1.55	0.89
9:S:213:LEU:CD1	9:S:264:SER:CB	2.50	0.89
9:S:263:ASN:HD21	9:S:265:ALA:HB2	1.09	0.89
9:T:123:VAL:HG21	9:V:223:VAL:HB	1.45	0.89
9:V:86:ALA:HB2	9:V:287:ILE:CD1	2.03	0.89
9:V:89:GLN:CB	9:V:287:ILE:HG21	2.01	0.89
9:V:108:VAL:CG2	9:V:301:ILE:HD13	2.01	0.89
9:V:167:ILE:HD11	9:V:202:MET:HE1	1.55	0.89
10:Y:148:ARG:HH22	10:Y:183:ILE:HB	1.37	0.89
3:A:490:VAL:HG12	3:A:511:ARG:O	1.72	0.89
3:A:601:VAL:HG23	3:A:606:ILE:HD12	1.55	0.89
4:B:195:TYR:HA	4:B:198:ARG:HD3	0.89	0.89
4:B:693:MET:HA	4:B:735:ALA:HA	1.55	0.89
4:B:880:GLU:HG3	4:B:901:ARG:CD	2.02	0.89
4:B:1150:ASN:ND2	4:B:1169:GLU:OE1	2.07	0.89
5:C:221:PHE:HZ	5:D:40:LEU:HD13	1.35	0.89
6:E:485:ALA:C	6:E:487:ALA:N	2.30	0.89
9:T:151:LEU:O	9:T:152:THR:CG2	2.20	0.89
9:T:157:MET:HE2	9:T:285:LEU:HD13	1.54	0.89
9:U:288:PRO:HA	9:U:291:LYS:HG2	0.89	0.89
3:A:429:ARG:HD3	3:A:483:ASP:HA	1.53	0.88
6:E:197:LEU:CD1	6:E:245:VAL:CG2	2.51	0.88
7:F:32:THR:O	7:F:35:VAL:N	2.07	0.88
9:S:135:LEU:O	9:S:153:THR:CG2	2.21	0.88
3:A:199:LEU:HD21	3:A:227:GLY:C	1.99	0.88
3:A:568:LYS:HZ2	3:A:713:ILE:HG12	1.38	0.88
3:A:591:VAL:HG12	3:A:668:VAL:HG23	1.54	0.88
3:A:708:LEU:HD21	3:A:846:ILE:CD1	2.03	0.88
4:B:507:ASN:OD1	4:B:852:SER:OG	1.91	0.88
6:E:609:THR:HG23	6:E:612:ARG:N	1.89	0.88
9:U:144:ILE:CG1	9:U:297:VAL:HG21	2.01	0.88
9:U:204:ARG:O	9:U:207:GLN:N	2.05	0.88
9:V:251:ARG:HA	9:V:256:LEU:HD11	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:998:TYR:HE2	3:A:1048:ARG:CZ	1.85	0.88
4:B:105:LEU:CD2	4:B:143:MET:SD	2.59	0.88
4:B:149:ASP:N	4:B:154:ILE:HA	1.88	0.88
4:B:162:ASN:HD21	4:B:164:ARG:HG3	1.37	0.88
4:B:265:SER:OG	4:B:266:ASP:OD1	1.91	0.88
4:B:359:LEU:HA	4:B:386:ILE:HD12	0.89	0.88
9:S:177:LEU:CD2	9:S:187:GLU:CG	2.51	0.88
9:T:142:LEU:HD21	9:T:293:PHE:HD2	1.36	0.88
9:T:171:THR:CG2	9:T:175:HIS:HD1	1.80	0.88
9:V:285:LEU:CD1	9:V:290:ILE:O	2.21	0.88
10:Y:95:PHE:HE2	10:Y:172:LEU:HD13	1.37	0.88
5:C:107:ILE:HB	5:C:127:VAL:HB	1.54	0.88
8:G:271:GLU:N	8:G:271:GLU:OE1	2.07	0.88
9:S:105:LEU:CD1	9:S:108:VAL:HG21	1.98	0.88
9:S:225:THR:HG21	9:U:123:VAL:HG13	1.54	0.88
9:T:209:LYS:HZ2	9:T:274:ARG:HB3	1.34	0.88
9:V:15:THR:CB	9:V:20:LYS:HD2	2.00	0.88
9:V:143:ALA:O	9:V:278:MET:CE	2.22	0.88
9:V:284:ARG:NH2	9:V:290:ILE:HD13	1.78	0.88
3:A:1041:LYS:HE2	6:E:356:TYR:HB2	1.56	0.88
4:B:146:LEU:HD13	4:B:158:PRO:HB2	1.54	0.88
4:B:195:TYR:HD1	4:B:198:ARG:NH1	1.70	0.88
4:B:374:GLU:CB	4:B:416:GLN:NE2	2.37	0.88
4:B:852:SER:H	4:B:877:LEU:HD23	1.34	0.88
4:B:1178:GLU:HA	4:B:1181:ALA:HB3	1.54	0.88
5:D:107:ILE:HB	5:D:127:VAL:HB	1.54	0.88
5:D:112:PHE:HB3	5:D:114:LEU:HD21	1.55	0.88
6:E:294:ALA:HB1	6:E:295:PRO:HD2	1.55	0.88
9:S:196:PHE:HB3	9:S:203:GLN:HE21	1.33	0.88
9:T:209:LYS:HZ3	9:T:274:ARG:HA	0.74	0.88
9:V:128:SER:OG	9:V:204:ARG:HG3	1.73	0.88
9:V:188:LEU:HD13	9:V:213:LEU:HG	1.53	0.88
10:X:175:SER:HA	10:X:208:LYS:HE2	1.56	0.88
3:A:1038:LEU:HD22	3:A:1038:LEU:N	1.86	0.88
4:B:10:LYS:HZ3	4:B:14:ARG:HE	1.22	0.88
4:B:587:VAL:HA	4:B:794:GLN:HE22	1.37	0.88
4:B:904:ASP:OD1	4:B:967:ARG:HG2	1.72	0.88
4:B:1218:ARG:CZ	6:E:122:PRO:HG3	2.04	0.88
5:C:80:MET:O	5:C:82:MET:N	2.06	0.88
6:E:578:THR:CG2	6:E:584:ARG:HA	2.03	0.88
9:S:213:LEU:HD11	9:S:264:SER:HB2	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:177:LEU:HG	9:T:180:TYR:CD2	2.08	0.88
9:T:209:LYS:HZ1	9:T:274:ARG:HB3	1.33	0.88
9:V:167:ILE:CG1	9:V:272:LEU:HD22	2.04	0.88
9:V:213:LEU:HA	9:V:265:ALA:HB1	1.53	0.88
10:X:49:LYS:O	10:X:99:GLU:N	2.06	0.88
3:A:601:VAL:HG12	3:A:659:ILE:HG22	1.55	0.88
3:A:653:GLN:CA	3:A:672:GLY:HA2	2.00	0.88
4:B:285:PRO:C	4:B:1146:ARG:HD3	1.98	0.88
5:C:28:LEU:CD1	5:C:33:GLY:HA3	2.03	0.88
5:C:57:ARG:HG3	5:C:139:GLU:HG3	0.89	0.88
5:C:99:LEU:HD21	5:C:112:PHE:CA	2.02	0.88
6:E:485:ALA:CB	6:E:488:ARG:HH21	1.86	0.88
9:U:288:PRO:CA	9:U:291:LYS:CG	2.34	0.88
9:V:210:PHE:HD2	9:V:217:LEU:HA	1.37	0.88
3:A:166:ILE:HG12	3:A:172:TRP:CD2	2.08	0.88
4:B:260:ARG:O	4:B:262:THR:OG1	1.91	0.88
4:B:880:GLU:HB3	4:B:901:ARG:HD3	1.56	0.88
5:C:41:ARG:NH2	5:C:176:VAL:C	2.31	0.88
5:C:112:PHE:HB3	5:C:114:LEU:HD21	1.55	0.88
5:D:194:LEU:HD22	5:D:196:LEU:HD23	1.56	0.88
6:E:157:THR:OG1	6:E:160:GLN:OE1	1.91	0.88
9:T:100:LEU:CD1	9:T:301:ILE:HD11	2.04	0.88
9:U:176:PRO:HG3	9:U:239:ILE:HD11	1.55	0.88
9:V:167:ILE:HB	9:V:262:ALA:HB3	0.91	0.88
1:1:14:DC:H5	9:V:34:ARG:CD	1.82	0.88
3:A:215:HIS:ND1	3:A:219:PHE:CE2	2.42	0.88
3:A:400:ARG:CB	3:A:447:LEU:HD22	2.00	0.88
3:A:715:THR:O	3:A:715:THR:OG1	1.85	0.88
6:E:423:ILE:HD11	6:E:448:LEU:HB2	1.53	0.88
7:F:64:GLU:N	7:F:64:GLU:OE1	2.05	0.88
8:G:361:THR:OG1	8:G:364:ARG:N	2.06	0.88
9:V:92:LEU:HG	9:V:93:CYS:N	1.88	0.88
10:Y:53:LYS:NZ	10:Y:55:SER:OG	2.06	0.88
3:A:102:LEU:HD12	3:A:108:ASP:HB3	1.56	0.88
3:A:1051:ALA:HA	3:A:1061:ILE:HD13	1.55	0.88
3:A:1061:ILE:HD12	3:A:1062:PRO:HD2	1.53	0.88
4:B:267:ASP:O	4:B:271:GLU:HG3	1.74	0.88
4:B:454:LYS:HG3	4:B:984:ASP:CB	2.04	0.88
4:B:489:ASN:HB2	4:B:895:ARG:HH21	1.36	0.88
4:B:672:VAL:CG1	4:B:686:VAL:HG22	2.04	0.88
5:C:41:ARG:NH1	5:C:176:VAL:HG22	1.89	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:157:MET:HB3	9:T:282:GLN:HA	1.51	0.88
9:V:213:LEU:CD2	9:V:261:LEU:HD21	2.03	0.88
9:V:247:LEU:HD11	9:V:251:ARG:CG	2.02	0.88
1:1:61:DT:H1'	1:1:62:DT:H5'	1.54	0.87
2:2:78:DA:OP2	9:S:17:SER:HA	1.74	0.87
3:A:31:ILE:HG23	3:A:32:GLU:HG3	1.54	0.87
3:A:57:THR:HA	3:A:64:GLU:HA	1.53	0.87
3:A:607:ARG:HG2	3:A:611:SER:OG	1.73	0.87
4:B:523:VAL:HG23	4:B:862:GLY:HA2	1.53	0.87
4:B:1195:LEU:O	4:B:1199:LYS:HD2	1.74	0.87
9:S:166:PRO:HB2	9:S:263:ASN:CB	2.04	0.87
9:V:175:HIS:HB3	9:V:177:LEU:HB2	1.56	0.87
3:A:397:THR:O	3:A:400:ARG:N	2.08	0.87
3:A:881:ASP:OD1	3:A:881:ASP:N	1.98	0.87
4:B:222:VAL:C	4:B:223:ARG:HD2	1.99	0.87
4:B:1218:ARG:HD3	6:E:122:PRO:CD	2.03	0.87
6:E:80:ARG:NH2	8:G:345:ASP:CB	2.37	0.87
6:E:404:ALA:C	6:E:406:LYS:H	1.82	0.87
8:G:381:ARG:O	8:G:382:ASN:OD1	1.90	0.87
9:U:296:LEU:CD1	9:U:300:ASN:CB	2.34	0.87
9:V:196:PHE:CD1	9:V:224:ASN:CA	2.40	0.87
10:Y:179:ILE:CD1	10:Y:190:VAL:CA	2.39	0.87
3:A:744:GLY:O	3:A:748:LEU:N	2.07	0.87
3:A:807:PRO:O	3:A:810:GLU:HG2	1.75	0.87
5:D:185:ALA:HB3	5:D:191:LYS:HG3	1.54	0.87
6:E:105:TYR:CD1	6:E:249:ILE:C	2.52	0.87
6:E:362:ILE:HD13	6:E:454:ILE:CB	2.04	0.87
7:F:28:ARG:O	7:F:29:TYR:C	2.15	0.87
9:S:200:TYR:CD2	9:S:202:MET:CB	2.41	0.87
9:T:157:MET:SD	9:T:294:TRP:HZ3	1.91	0.87
9:V:101:CYS:SG	9:V:105:LEU:HD22	2.15	0.87
1:1:61:DT:O4	2:2:65:DA:C6	2.27	0.87
3:A:553:ALA:O	3:A:554:LEU:HG	1.74	0.87
4:B:195:TYR:CD1	4:B:198:ARG:NH1	2.43	0.87
4:B:225:MET:CB	4:B:232:LEU:HD22	2.03	0.87
4:B:834:ILE:CG2	4:B:835:LEU:H	1.87	0.87
9:S:136:LYS:HB3	9:S:152:THR:CB	2.05	0.87
9:T:193:GLN:H	9:T:217:LEU:HA	1.39	0.87
9:U:43:LEU:HD23	9:U:46:GLU:HB3	1.55	0.87
9:U:195:VAL:CG2	9:U:222:GLU:HG2	2.05	0.87
9:U:278:MET:HE1	9:U:293:PHE:O	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:47:LEU:HB2	10:Y:75:PHE:HD2	1.37	0.87
1:1:44:DG:N1	2:2:82:DC:C2	2.38	0.87
2:2:89:DT:H2"	9:T:35:GLN:NE2	1.90	0.87
3:A:29:ASP:OD1	3:A:31:ILE:N	2.08	0.87
4:B:813:ALA:HA	4:B:834:ILE:HD13	1.56	0.87
4:B:863:ASP:CB	4:B:866:VAL:HG22	2.03	0.87
4:B:975:SER:OG	4:B:976:PRO:O	1.92	0.87
5:C:179:SER:OG	5:C:180:VAL:N	1.99	0.87
6:E:296:GLU:HG3	6:E:300:ARG:HD2	1.56	0.87
9:U:39:LEU:CD1	9:U:43:LEU:CD1	2.42	0.87
9:V:209:LYS:HZ2	9:V:241:LEU:HD21	1.35	0.87
10:X:46:PHE:CG	10:X:101:LEU:HD12	2.09	0.87
3:A:31:ILE:O	3:A:33:ILE:N	2.07	0.87
3:A:148:TYR:O	3:A:164:SER:OG	1.92	0.87
3:A:1034:LEU:C	3:A:1037:LEU:H	1.82	0.87
4:B:25:GLY:H	4:B:28:ARG:HH21	1.21	0.87
4:B:922:ILE:CG2	4:B:928:LEU:HD11	2.04	0.87
4:B:1107:TYR:OH	4:B:1174:GLU:HG3	1.72	0.87
4:B:1244:LEU:O	4:B:1245:ILE:HG23	1.74	0.87
6:E:291:GLU:N	6:E:291:GLU:OE1	2.08	0.87
9:T:157:MET:CA	9:T:282:GLN:HB3	2.05	0.87
9:T:186:SER:HA	9:T:261:LEU:HD23	1.57	0.87
9:T:194:VAL:HG23	9:T:217:LEU:CD1	2.00	0.87
9:V:167:ILE:HG23	9:V:241:LEU:CD1	2.02	0.87
9:V:189:VAL:C	9:V:193:GLN:NE2	2.33	0.87
3:A:645:SER:OG	3:A:649:THR:N	2.08	0.87
3:A:737:THR:HB	3:A:773:VAL:HG21	1.57	0.87
3:A:762:TRP:HB2	3:A:813:ARG:HH22	1.39	0.87
3:A:876:ASP:OD1	3:A:877:GLY:N	2.08	0.87
4:B:179:ALA:O	4:B:182:GLY:N	2.06	0.87
4:B:210:ARG:N	4:B:210:ARG:HD2	1.89	0.87
4:B:232:LEU:HD23	4:B:233:ILE:HD13	1.57	0.87
9:S:213:LEU:HD11	9:S:264:SER:CB	2.03	0.87
9:T:37:GLN:HE21	9:T:48:PHE:HE1	1.15	0.87
10:X:167:GLY:CA	10:X:213:HIS:HA	2.05	0.87
10:Y:212:VAL:CG2	10:Y:218:LEU:HD21	2.05	0.87
10:Y:212:VAL:HG21	10:Y:218:LEU:CD2	2.04	0.87
3:A:1044:ASP:OD1	3:A:1046:GLN:N	2.08	0.87
4:B:37:LYS:CE	6:E:509:PRO:CG	2.44	0.87
4:B:257:ILE:CG2	4:B:258:ALA:H	1.86	0.87
5:C:43:VAL:O	5:C:46:SER:OG	1.93	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:108:THR:HG1	5:D:111:HIS:H	1.23	0.87
9:S:8:ALA:HB1	9:S:21:ALA:HB1	1.55	0.87
9:T:167:ILE:CB	9:T:274:ARG:HG2	2.01	0.87
9:V:167:ILE:HG21	9:V:209:LYS:HZ1	1.40	0.87
1:1:50:DA:C2'	1:1:51:DT:C7	2.37	0.87
3:A:351:MET:CA	3:A:364:LEU:HD13	2.05	0.87
3:A:774:THR:OG1	3:A:800:ARG:HB3	1.74	0.87
3:A:784:GLU:HG2	8:G:322:LEU:HD22	1.55	0.87
3:A:856:HIS:NE2	3:A:897:GLN:HG3	1.89	0.87
4:B:548:GLN:N	4:B:827:VAL:HG11	1.90	0.87
4:B:969:GLY:O	4:B:970:ARG:HD2	1.74	0.87
5:D:99:LEU:HD21	5:D:112:PHE:CA	2.02	0.87
6:E:89:CYS:SG	6:E:90:GLY:N	2.34	0.87
6:E:281:ASN:HB3	6:E:285:ARG:HH12	1.05	0.87
6:E:346:ARG:HG3	6:E:350:LEU:CB	2.05	0.87
9:S:126:LEU:CD1	9:S:145:VAL:CG2	2.15	0.87
9:S:210:PHE:HB2	9:S:217:LEU:HD11	1.55	0.87
9:T:18:PHE:HE1	9:T:50:ARG:HA	1.39	0.87
9:T:95:ALA:HB3	9:T:143:ALA:HA	1.57	0.87
9:V:48:PHE:O	9:V:57:THR:HG21	1.73	0.87
3:A:1044:ASP:OD1	3:A:1047:GLY:N	2.06	0.86
4:B:299:TYR:HA	4:B:1139:LYS:CE	2.04	0.86
4:B:550:THR:H	4:B:566:THR:HG23	1.39	0.86
8:G:139:LEU:HB3	8:G:144:PHE:HB3	1.55	0.86
9:T:146:MET:HE1	9:T:205:LEU:CD2	1.97	0.86
9:T:167:ILE:HD12	9:T:243:PRO:HG3	1.56	0.86
9:U:204:ARG:C	9:U:207:GLN:HG2	1.99	0.86
9:V:66:ARG:HG3	9:V:67:ALA:N	1.89	0.86
10:X:78:LEU:HD22	10:X:88:ARG:CG	2.03	0.86
2:2:89:DT:H2"	9:T:35:GLN:HE21	1.37	0.86
3:A:47:ILE:O	3:A:50:LEU:N	2.08	0.86
3:A:166:ILE:CG1	3:A:172:TRP:CD1	2.55	0.86
3:A:560:GLN:HB3	3:A:855:ARG:HG2	1.55	0.86
3:A:645:SER:OG	3:A:649:THR:CG2	2.22	0.86
3:A:993:ARG:NE	3:A:1012:GLN:CB	2.38	0.86
3:A:1085:ALA:HB2	6:E:13:LYS:HE2	1.55	0.86
4:B:21:PHE:CD2	6:E:497:ILE:HD13	2.09	0.86
4:B:34:ASP:CG	6:E:370:ILE:HD11	2.00	0.86
4:B:479:LEU:CD1	4:B:481:TRP:CZ2	2.58	0.86
4:B:714:LEU:HG	4:B:715:LEU:HG	1.57	0.86
4:B:813:ALA:C	4:B:834:ILE:HD11	1.99	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:105:TYR:HE1	6:E:250:PRO:HA	1.08	0.86
8:G:339:LEU:CD2	8:G:343:LEU:HG	2.02	0.86
9:S:230:ARG:HA	9:S:233:VAL:HG12	1.56	0.86
9:T:197:LYS:O	9:T:199:GLY:N	2.07	0.86
9:U:92:LEU:HD23	9:U:290:ILE:HD13	1.55	0.86
9:V:49:HIS:HE1	9:V:57:THR:H	1.21	0.86
10:X:53:LYS:NZ	10:X:55:SER:OG	2.06	0.86
3:A:53:PHE:CE1	3:A:265:LYS:CD	2.57	0.86
3:A:63:LEU:HD23	3:A:356:ALA:CB	1.85	0.86
3:A:135:ARG:NH2	3:A:379:GLY:O	2.07	0.86
4:B:359:LEU:HD21	4:B:384:ILE:CB	2.04	0.86
4:B:672:VAL:CG2	4:B:686:VAL:HG13	2.05	0.86
4:B:1110:ALA:C	4:B:1114:LEU:HG	1.99	0.86
4:B:1129:TYR:CG	4:B:1136:ILE:CG2	2.57	0.86
5:D:98:ARG:HG2	5:D:139:GLU:HG2	1.56	0.86
6:E:86:CYS:O	6:E:89:CYS:N	2.06	0.86
6:E:457:HIS:CE1	6:E:458:PRO:HG2	2.10	0.86
6:E:582:GLY:HA3	6:E:596:ASP:HA	1.58	0.86
8:G:326:LEU:HD11	8:G:329:LEU:HD21	1.56	0.86
9:T:251:ARG:NH2	9:T:258:VAL:O	2.07	0.86
9:V:189:VAL:C	9:V:193:GLN:HE22	1.82	0.86
9:V:232:VAL:CG2	9:V:238:LEU:HD23	2.05	0.86
1:1:44:DG:C2	2:2:82:DC:O2	2.28	0.86
3:A:547:HIS:HD2	4:B:166:GLY:HA3	1.39	0.86
3:A:598:VAL:HG13	3:A:660:GLY:N	1.89	0.86
4:B:233:ILE:HG21	4:B:238:ARG:CD	2.04	0.86
4:B:937:SER:OG	4:B:969:GLY:O	1.93	0.86
9:S:32:ILE:CG1	9:S:36:ILE:HD12	2.05	0.86
9:S:134:VAL:HB	9:S:139:LEU:HB3	1.56	0.86
9:S:177:LEU:CD2	9:S:187:GLU:HG2	2.05	0.86
9:T:171:THR:HG21	9:T:175:HIS:ND1	1.87	0.86
10:X:34:ILE:H	10:X:91:HIS:HE1	1.22	0.86
10:X:70:ARG:NH2	10:X:156:LEU:HB2	1.91	0.86
3:A:51:ASN:O	3:A:54:SER:CA	2.23	0.86
3:A:65:LEU:HD12	3:A:351:MET:CE	2.04	0.86
3:A:872:PRO:HB3	3:A:961:ASP:CG	2.00	0.86
3:A:1016:ARG:HH12	6:E:353:ARG:HH22	1.19	0.86
3:A:1039:THR:OG1	3:A:1040:VAL:N	1.95	0.86
6:E:197:LEU:HD11	6:E:245:VAL:HG23	1.57	0.86
9:S:285:LEU:HD22	9:S:290:ILE:HG22	1.54	0.86
9:S:290:ILE:HG23	9:S:294:TRP:HB2	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:45:LEU:CD2	9:U:62:ARG:NE	2.37	0.86
10:Y:212:VAL:HG11	10:Y:218:LEU:CD2	2.06	0.86
3:A:686:ILE:HD11	3:A:979:MET:HG2	1.57	0.86
3:A:1084:ILE:HG13	3:A:1086:VAL:HG13	1.53	0.86
4:B:359:LEU:CB	4:B:386:ILE:CD1	2.48	0.86
4:B:1153:ARG:HB2	4:B:1167:LEU:HD23	1.58	0.86
7:F:34:GLN:HA	7:F:37:ASN:OD1	1.75	0.86
3:A:558:ASN:HD22	3:A:561:ARG:HE	1.24	0.86
3:A:691:MET:HE2	3:A:691:MET:HA	1.58	0.86
4:B:570:GLN:OE1	4:B:572:PHE:CE2	2.28	0.86
4:B:1218:ARG:NE	6:E:122:PRO:HD3	1.90	0.86
6:E:39:VAL:HG23	6:E:55:ASP:OD1	1.76	0.86
9:S:212:ARG:HB2	9:S:267:PRO:CD	2.03	0.86
9:T:102:GLY:HA2	9:V:227:ASP:HB3	1.56	0.86
9:V:127:GLY:O	9:V:131:ALA:HB2	1.75	0.86
3:A:396:LEU:O	3:A:399:LYS:N	2.08	0.86
3:A:872:PRO:CB	3:A:961:ASP:OD2	2.24	0.86
4:B:163:PHE:O	4:B:166:GLY:N	2.09	0.86
5:D:188:SER:O	5:D:189:ILE:CD1	2.24	0.86
6:E:197:LEU:CD1	6:E:245:VAL:HG23	2.06	0.86
9:S:278:MET:C	9:S:294:TRP:CZ2	2.54	0.86
9:T:157:MET:CE	9:T:285:LEU:HD13	2.04	0.86
9:T:197:LYS:O	9:T:200:TYR:N	2.07	0.86
9:U:105:LEU:CB	9:U:301:ILE:HG22	2.04	0.86
9:U:210:PHE:CZ	9:U:243:PRO:HG3	2.10	0.86
3:A:558:ASN:HA	3:A:561:ARG:CD	2.05	0.86
3:A:687:VAL:HA	3:A:975:GLY:O	1.75	0.86
4:B:24:TYR:CB	4:B:29:THR:CG2	2.54	0.86
4:B:162:ASN:OD1	4:B:164:ARG:N	2.07	0.86
6:E:42:PRO:O	6:E:43:GLU:HB2	1.72	0.86
6:E:145:TYR:HH	6:E:167:TRP:CG	1.94	0.86
6:E:362:ILE:CD1	6:E:473:MET:CG	2.54	0.86
8:G:89:ILE:CG1	8:G:92:ILE:CD1	2.54	0.86
9:S:167:ILE:HG21	9:S:209:LYS:CB	2.06	0.86
9:T:100:LEU:HD21	9:T:301:ILE:HD11	1.57	0.86
9:U:199:GLY:CA	9:U:207:GLN:NE2	2.39	0.86
1:1:22:DG:OP1	2:2:108:DT:H5'	1.75	0.86
3:A:106:THR:O	3:A:108:ASP:N	2.08	0.86
3:A:692:PRO:HD3	3:A:886:PRO:HG3	1.55	0.86
4:B:328:THR:HA	4:B:1011:LEU:HD21	1.58	0.86
4:B:369:ARG:NH1	4:B:1000:GLU:O	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:496:LEU:HA	4:B:511:ALA:HB1	1.56	0.86
6:E:288:ARG:NH1	6:E:288:ARG:O	2.09	0.86
8:G:339:LEU:CD2	8:G:343:LEU:CD2	2.54	0.86
9:S:43:LEU:HD22	9:S:63:LEU:HD11	1.55	0.86
9:T:169:LEU:HB3	9:T:259:ARG:O	1.75	0.86
9:U:105:LEU:HB3	9:U:301:ILE:CG2	2.05	0.86
9:U:142:LEU:HD12	9:U:293:PHE:HD2	1.41	0.86
9:V:248:VAL:HA	9:V:251:ARG:NH2	1.90	0.86
3:A:53:PHE:HE1	3:A:265:LYS:CD	1.87	0.85
3:A:538:ALA:HB3	3:A:561:ARG:HG2	1.58	0.85
3:A:993:ARG:CZ	3:A:1012:GLN:HB3	2.05	0.85
4:B:283:ARG:HH21	4:B:298:CYS:CB	1.88	0.85
5:D:57:ARG:N	5:D:139:GLU:O	2.09	0.85
6:E:366:PRO:HA	6:E:458:PRO:HD3	1.58	0.85
8:G:114:GLU:HA	8:G:117:ARG:CG	2.06	0.85
9:T:34:ARG:HA	9:T:50:ARG:HH21	1.29	0.85
9:U:182:ARG:O	9:U:187:GLU:HG3	1.74	0.85
3:A:539:THR:HG23	3:A:561:ARG:HH22	1.09	0.85
3:A:552:ARG:NH2	3:A:892:ARG:CD	2.38	0.85
3:A:1057:LYS:HG3	3:A:1059:LYS:HG2	1.58	0.85
4:B:18:SER:OG	4:B:19:TRP:N	2.00	0.85
4:B:33:ALA:HB2	4:B:37:LYS:NZ	1.76	0.85
4:B:299:TYR:CB	4:B:1139:LYS:HE3	2.05	0.85
4:B:682:ARG:HG3	4:B:683:GLU:HG2	1.58	0.85
4:B:1235:LEU:CD1	4:B:1236:LYS:HG3	2.05	0.85
6:E:158:TYR:CD1	6:E:159:LYS:N	2.44	0.85
9:S:164:ASP:HB2	9:S:273:THR:OG1	1.76	0.85
3:A:699:GLU:N	3:A:699:GLU:OE1	2.09	0.85
3:A:1043:ASP:CG	3:A:1069:SER:H	1.84	0.85
4:B:157:LEU:CG	4:B:174:ILE:HD12	2.06	0.85
4:B:357:ILE:O	4:B:410:ILE:CG2	2.23	0.85
4:B:1153:ARG:O	4:B:1191:THR:N	2.08	0.85
6:E:191:GLU:HA	6:E:194:LEU:HD23	1.56	0.85
9:S:155:ARG:NH2	9:S:158:VAL:CG2	2.39	0.85
9:T:227:ASP:HA	9:T:230:ARG:HG2	1.55	0.85
9:U:92:LEU:CG	9:U:290:ILE:HD11	2.06	0.85
9:V:166:PRO:HB2	9:V:244:SER:HB2	1.58	0.85
10:X:101:LEU:HD23	10:X:103:ALA:H	1.40	0.85
10:Y:148:ARG:NH2	10:Y:183:ILE:HB	1.89	0.85
3:A:1028:PHE:CZ	6:E:438:ARG:NE	2.41	0.85
4:B:522:VAL:CA	4:B:862:GLY:HA3	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1037:LYS:HZ1	4:B:1053:GLU:HB3	1.40	0.85
4:B:1111:SER:O	4:B:1114:LEU:N	2.10	0.85
5:D:98:ARG:HG2	5:D:139:GLU:CG	2.06	0.85
6:E:78:ARG:HH12	6:E:80:ARG:HG2	1.41	0.85
6:E:346:ARG:CZ	6:E:350:LEU:HD22	2.06	0.85
8:G:340:ARG:HG2	8:G:341:TYR:H	1.42	0.85
8:G:367:GLN:N	8:G:367:GLN:OE1	2.09	0.85
9:T:167:ILE:HD12	9:T:274:ARG:HD3	1.58	0.85
3:A:149:TYR:N	3:A:315:ASP:OD2	2.10	0.85
3:A:970:ARG:HH21	4:B:49:VAL:HB	1.16	0.85
4:B:76:THR:O	4:B:372:HIS:CD2	2.29	0.85
4:B:223:ARG:HD2	4:B:223:ARG:N	1.91	0.85
4:B:1135:ASP:O	4:B:1136:ILE:HG23	1.76	0.85
6:E:79:VAL:O	6:E:81:HIS:N	2.09	0.85
6:E:239:SER:HB3	6:E:243:TRP:CZ3	2.11	0.85
9:T:193:GLN:HE22	9:T:239:ILE:CB	1.89	0.85
9:U:157:MET:CE	9:U:159:VAL:O	2.25	0.85
9:V:292:HIS:HD2	9:V:296:LEU:HD11	1.04	0.85
10:Y:177:GLN:HG2	10:Y:190:VAL:O	1.76	0.85
10:Y:179:ILE:HD11	10:Y:190:VAL:N	1.90	0.85
4:B:117:ASN:HB3	4:B:120:ASN:HB2	1.56	0.85
4:B:180:ARG:O	4:B:184:VAL:HG13	1.75	0.85
4:B:609:VAL:CG1	4:B:626:GLY:HA3	2.05	0.85
4:B:642:ASP:OD1	8:G:101:ILE:HD12	1.77	0.85
4:B:1218:ARG:HD2	6:E:122:PRO:CD	2.03	0.85
6:E:368:LEU:CD1	6:E:369:LYS:O	2.25	0.85
8:G:235:LEU:HD12	8:G:276:ILE:HG13	1.56	0.85
9:S:108:VAL:HB	9:S:297:VAL:HA	1.58	0.85
9:S:285:LEU:HD21	9:S:290:ILE:HG21	1.56	0.85
9:T:175:HIS:NE2	9:T:177:LEU:CB	2.18	0.85
9:U:157:MET:HA	9:U:295:GLN:OE1	1.77	0.85
9:U:183:VAL:HG22	9:U:184:PRO:HD3	1.56	0.85
9:V:293:PHE:HA	9:V:296:LEU:HB2	1.59	0.85
3:A:274:ARG:O	3:A:277:LEU:N	2.10	0.85
3:A:689:ALA:HB2	3:A:974:ILE:HG22	1.56	0.85
4:B:97:THR:HA	4:B:422:GLN:HA	1.57	0.85
4:B:479:LEU:HB2	4:B:481:TRP:CE2	2.11	0.85
4:B:1226:GLU:O	4:B:1228:LYS:N	2.09	0.85
6:E:587:LEU:HA	6:E:592:ARG:HH11	1.42	0.85
8:G:106:LYS:HD2	8:G:151:GLY:CA	2.07	0.85
8:G:211:THR:O	8:G:214:ILE:N	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:142:LEU:CG	9:S:278:MET:HE1	2.03	0.85
9:S:267:PRO:C	9:S:272:LEU:HD23	2.02	0.85
9:T:95:ALA:CB	9:T:126:LEU:HD11	2.06	0.85
9:U:8:ALA:HB2	9:U:25:CYS:SG	2.16	0.85
9:U:203:GLN:OE1	9:U:207:GLN:OE1	1.94	0.85
9:U:210:PHE:HB2	9:U:211:GLU:OE1	1.77	0.85
10:Y:179:ILE:CD1	10:Y:189:THR:C	2.49	0.85
3:A:41:PHE:CE1	3:A:45:GLY:HA3	2.12	0.85
3:A:63:LEU:HD22	3:A:356:ALA:HB3	1.56	0.85
3:A:448:ALA:HB3	3:A:451:ALA:HB2	1.59	0.85
3:A:613:GLN:C	3:A:616:THR:HG22	2.02	0.85
4:B:265:SER:O	4:B:268:LEU:HB2	1.74	0.85
5:D:44:LEU:CD1	5:D:210:LEU:HA	2.06	0.85
5:D:61:VAL:HG21	5:D:68:VAL:HB	1.58	0.85
6:E:390:ASN:O	6:E:394:ARG:HB2	1.77	0.85
9:S:207:GLN:HA	9:S:217:LEU:HD13	1.58	0.85
9:T:156:ASP:OD1	9:T:285:LEU:CG	2.25	0.85
9:T:167:ILE:HD13	9:T:274:ARG:HD2	1.58	0.85
9:U:180:TYR:HB2	9:U:187:GLU:HB3	1.58	0.85
1:1:105:DG:H1	3:A:246:GLU:CB	1.89	0.85
3:A:159:ARG:HG2	3:A:160:THR:H	1.40	0.85
3:A:826:ASP:HB3	3:A:828:LEU:CD2	2.06	0.85
3:A:880:VAL:HG22	3:A:881:ASP:H	1.41	0.85
4:B:1045:GLU:HG3	4:B:1046:ALA:N	1.90	0.85
4:B:1248:GLY:HA2	7:F:29:TYR:CE2	2.11	0.85
6:E:95:GLU:OE1	6:E:95:GLU:N	2.09	0.85
6:E:129:LEU:O	6:E:130:ASP:OD1	1.94	0.85
9:S:180:TYR:CD2	9:S:187:GLU:CG	2.60	0.85
9:V:207:GLN:HG3	9:V:217:LEU:HD13	1.55	0.85
10:X:46:PHE:CE2	10:X:48:LEU:HD21	2.12	0.85
3:A:258:ASP:O	3:A:261:PHE:N	2.10	0.85
3:A:853:ALA:HB1	3:A:858:ASN:HB3	1.56	0.85
3:A:872:PRO:O	3:A:880:VAL:HG12	1.77	0.85
3:A:905:TRP:NE1	3:A:909:THR:HG23	1.90	0.85
6:E:509:PRO:CB	6:E:513:MET:HE3	2.07	0.85
7:F:60:ARG:O	7:F:62:ILE:N	2.10	0.85
9:T:231:GLY:HA2	9:V:105:LEU:HD21	1.58	0.85
9:U:45:LEU:CD1	9:U:62:ARG:HB3	1.80	0.85
9:U:171:THR:HG21	9:U:177:LEU:HB3	1.57	0.85
10:Y:49:LYS:HA	10:Y:71:GLU:HA	1.59	0.85
4:B:124:MET:HG2	6:E:518:TYR:CE2	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:454:LYS:HA	4:B:984:ASP:HA	1.56	0.84
4:B:1207:PHE:O	4:B:1220:LEU:CD2	2.25	0.84
4:B:1236:LYS:HA	4:B:1239:VAL:HB	1.59	0.84
5:D:68:VAL:CG2	5:D:136:LEU:HD12	2.07	0.84
6:E:420:GLU:HG2	6:E:423:ILE:HD11	1.58	0.84
8:G:141:LEU:CA	8:G:144:PHE:CZ	2.48	0.84
9:S:108:VAL:HG21	9:S:297:VAL:HG23	0.92	0.84
9:T:205:LEU:HD22	9:T:274:ARG:HE	1.41	0.84
9:V:77:ALA:HB1	9:V:81:LEU:CD2	2.06	0.84
1:1:100:DA:C2	8:G:202:LYS:HG2	2.12	0.84
3:A:95:MET:HE3	3:A:96:TYR:H	1.42	0.84
4:B:9:ASP:OD1	4:B:12:GLN:N	2.10	0.84
4:B:122:VAL:HA	4:B:125:MET:HE1	1.59	0.84
4:B:304:ALA:HA	6:E:498:LEU:HD21	1.59	0.84
4:B:511:ALA:HB3	4:B:876:ILE:CG1	2.06	0.84
5:D:185:ALA:CB	5:D:191:LYS:HG3	2.05	0.84
6:E:332:LYS:HE3	8:G:297:ARG:CD	2.08	0.84
6:E:332:LYS:HE3	8:G:297:ARG:HD3	1.59	0.84
8:G:221:ALA:O	8:G:224:ASP:N	2.10	0.84
9:V:146:MET:CE	9:V:274:ARG:CZ	2.48	0.84
9:V:177:LEU:HD11	9:V:191:TYR:HE2	1.39	0.84
3:A:34:GLN:H	3:A:34:GLN:CD	1.82	0.84
3:A:236:MET:HE1	3:A:240:ARG:CG	2.03	0.84
3:A:769:LEU:N	3:A:804:LEU:O	2.09	0.84
9:S:294:TRP:CZ3	9:S:298:ARG:NH2	2.45	0.84
9:T:100:LEU:HD21	9:T:301:ILE:CD1	2.06	0.84
9:U:12:ILE:HG21	9:U:36:ILE:HD11	0.85	0.84
9:V:146:MET:HG2	9:V:274:ARG:HA	0.84	0.84
9:V:166:PRO:O	9:V:244:SER:N	2.09	0.84
10:Y:45:TYR:HE2	10:Y:75:PHE:CE1	1.95	0.84
3:A:127:THR:CG2	3:A:387:MET:HE1	2.08	0.84
3:A:427:TYR:HD1	4:B:173:ILE:CD1	1.89	0.84
3:A:769:LEU:CD1	3:A:804:LEU:HB3	2.07	0.84
3:A:787:LEU:O	3:A:790:ALA:N	2.10	0.84
4:B:96:ASP:O	4:B:423:LEU:N	2.09	0.84
4:B:800:GLU:HG2	4:B:801:GLN:N	1.92	0.84
5:C:68:VAL:CG2	5:C:136:LEU:HD12	2.07	0.84
6:E:444:PHE:HA	6:E:492:LEU:CD1	2.07	0.84
8:G:337:LEU:HD23	8:G:337:LEU:N	1.90	0.84
9:S:157:MET:HB3	9:U:20:LYS:HZ3	1.39	0.84
9:S:188:LEU:HD11	9:S:210:PHE:CE1	2.12	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:169:LEU:H	9:T:259:ARG:H	1.25	0.84
9:U:45:LEU:HD13	9:U:62:ARG:C	2.02	0.84
9:U:172:ALA:HB1	9:U:175:HIS:CE1	2.13	0.84
9:U:199:GLY:HA2	9:U:204:ARG:HB3	1.59	0.84
9:V:15:THR:HB	9:V:20:LYS:HD3	1.59	0.84
9:V:196:PHE:CE2	9:V:206:VAL:HG21	2.12	0.84
9:V:205:LEU:HD11	9:V:212:ARG:NH2	1.87	0.84
9:V:209:LYS:NZ	9:V:262:ALA:HB2	1.92	0.84
9:V:262:ALA:C	9:V:264:SER:H	1.83	0.84
3:A:1036:GLU:O	3:A:1039:THR:N	2.10	0.84
3:A:1084:ILE:HG13	3:A:1086:VAL:H	1.42	0.84
4:B:1032:ARG:HG3	4:B:1078:PRO:CG	2.04	0.84
5:D:34:THR:CG2	5:D:180:VAL:HG11	2.07	0.84
5:D:200:THR:HG23	5:D:202:GLY:H	1.43	0.84
6:E:296:GLU:HB2	6:E:300:ARG:CG	2.06	0.84
6:E:527:ALA:HB1	6:E:551:ASP:HB2	1.58	0.84
8:G:233:VAL:CG1	8:G:236:TYR:OH	2.25	0.84
9:T:193:GLN:O	9:T:194:VAL:HG23	1.76	0.84
9:U:157:MET:CE	9:U:159:VAL:N	2.36	0.84
9:V:9:PHE:HE2	9:V:59:GLY:HA3	1.41	0.84
9:V:148:ASN:CB	9:V:212:ARG:HH11	1.90	0.84
3:A:37:SER:OG	3:A:38:PHE:N	2.10	0.84
4:B:235:LEU:HD12	4:B:239:LEU:CG	2.04	0.84
4:B:374:GLU:C	4:B:416:GLN:HE21	1.84	0.84
6:E:346:ARG:HG3	6:E:350:LEU:HB3	1.59	0.84
7:F:63:ILE:O	7:F:66:SER:N	2.10	0.84
8:G:109:ASP:O	8:G:112:GLU:HB2	1.77	0.84
9:S:28:THR:O	9:S:32:ILE:CG2	2.23	0.84
9:V:84:LEU:HD13	9:V:84:LEU:C	2.02	0.84
9:V:175:HIS:HB2	9:V:234:ARG:HA	1.59	0.84
10:X:44:VAL:HG23	10:X:101:LEU:CD1	1.96	0.84
10:X:137:ILE:HD13	10:Y:137:ILE:CD1	2.06	0.84
3:A:102:LEU:HD21	3:A:110:LYS:HB2	1.59	0.84
3:A:274:ARG:HH22	3:A:288:THR:N	1.75	0.84
3:A:391:ASN:OD1	3:A:392:PRO:HD2	1.77	0.84
3:A:423:HIS:CD2	3:A:425:SER:H	1.95	0.84
3:A:575:GLY:HA3	3:A:915:LYS:H	1.43	0.84
3:A:738:ARG:NH1	3:A:753:GLU:HA	1.92	0.84
4:B:37:LYS:HE3	6:E:509:PRO:CG	2.07	0.84
4:B:85:ILE:HD12	4:B:372:HIS:C	2.03	0.84
4:B:418:VAL:O	4:B:419:LYS:CD	2.25	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1129:TYR:CG	4:B:1136:ILE:HG21	2.13	0.84
5:D:52:ALA:N	5:D:143:GLU:O	2.09	0.84
6:E:277:ARG:HH22	8:G:227:ARG:H	0.86	0.84
9:S:278:MET:C	9:S:294:TRP:HZ2	1.85	0.84
9:T:123:VAL:HG23	9:V:223:VAL:HB	1.57	0.84
9:U:242:LEU:CD1	9:U:246:ALA:N	2.39	0.84
3:A:888:GLY:HA3	3:A:892:ARG:NH1	1.92	0.84
4:B:602:GLY:O	4:B:632:ILE:O	1.94	0.84
5:D:90:TYR:CE2	9:U:155:ARG:NE	2.45	0.84
7:F:53:ALA:HA	7:F:60:ARG:NH2	1.93	0.84
9:S:17:SER:C	9:S:19:GLN:H	1.86	0.84
9:U:45:LEU:HD21	9:U:62:ARG:CZ	2.06	0.84
9:U:206:VAL:CG2	9:U:274:ARG:CG	2.56	0.84
9:V:66:ARG:CG	9:V:67:ALA:H	1.91	0.84
3:A:970:ARG:HH21	4:B:49:VAL:CG2	1.90	0.84
6:E:420:GLU:HA	6:E:423:ILE:HD13	1.59	0.84
9:U:157:MET:HE2	9:U:159:VAL:H	1.40	0.84
3:A:423:HIS:O	3:A:426:HIS:N	2.11	0.84
3:A:546:GLU:OE1	3:A:920:ASP:N	2.08	0.84
3:A:727:ARG:HH12	3:A:729:THR:HA	1.39	0.84
4:B:75:ALA:O	4:B:372:HIS:NE2	2.11	0.84
4:B:124:MET:HG2	6:E:518:TYR:HE2	1.41	0.84
4:B:195:TYR:CA	4:B:198:ARG:HG2	2.08	0.84
4:B:197:THR:H	4:B:200:LEU:HD12	1.41	0.84
4:B:554:GLN:HG3	4:B:561:ASN:ND2	1.93	0.84
4:B:581:LYS:HD2	4:B:816:ILE:HG21	1.60	0.84
4:B:851:GLY:HA3	4:B:877:LEU:CG	2.08	0.84
5:C:151:VAL:O	5:C:152:GLU:CG	2.26	0.84
6:E:50:LEU:H	6:E:51:LYS:HZ1	1.21	0.84
6:E:454:ILE:HG22	6:E:455:GLN:H	1.42	0.84
3:A:488:LEU:HD21	3:A:524:VAL:HA	1.60	0.83
3:A:590:ILE:H	3:A:670:ALA:HB3	1.43	0.83
4:B:21:PHE:CE1	6:E:497:ILE:CD1	2.61	0.83
4:B:359:LEU:CG	4:B:386:ILE:HG13	2.01	0.83
4:B:463:LYS:O	4:B:471:THR:OG1	1.96	0.83
4:B:510:LEU:HD23	4:B:878:SER:N	1.92	0.83
4:B:1216:THR:N	4:B:1219:VAL:CG1	2.41	0.83
5:C:143:GLU:C	5:C:170:PHE:HE1	1.86	0.83
5:D:183:VAL:CG1	5:D:184:ARG:H	1.88	0.83
6:E:385:GLN:NE2	6:E:408:ILE:CD1	2.41	0.83
8:G:329:LEU:CD1	8:G:330:SER:O	2.25	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:126:LEU:HD21	9:S:145:VAL:HG23	1.59	0.83
9:S:200:TYR:HD2	9:S:202:MET:HB3	1.37	0.83
9:T:170:LEU:HD13	9:T:229:PHE:CD2	2.12	0.83
9:T:175:HIS:NE2	9:T:177:LEU:HD22	1.93	0.83
9:U:144:ILE:CD1	9:U:293:PHE:CZ	2.60	0.83
9:U:177:LEU:HD22	9:U:261:LEU:HD21	1.60	0.83
9:V:194:VAL:CG1	9:V:221:LEU:CD1	2.56	0.83
3:A:256:LEU:HB3	3:A:257:LEU:HG	1.59	0.83
3:A:419:VAL:HG23	3:A:420:ARG:HG2	1.61	0.83
3:A:430:ILE:CG2	3:A:446:SER:H	1.90	0.83
3:A:520:THR:O	3:A:523:GLN:NE2	2.10	0.83
3:A:905:TRP:CZ3	3:A:975:GLY:HA2	2.13	0.83
5:C:200:THR:HG23	5:C:202:GLY:H	1.43	0.83
9:S:17:SER:HB3	9:S:19:GLN:NE2	1.92	0.83
9:S:57:THR:HG23	9:S:58:LEU:N	1.93	0.83
9:T:209:LYS:HD3	9:T:212:ARG:HE	0.69	0.83
9:V:167:ILE:CD1	9:V:272:LEU:HD22	2.08	0.83
9:V:191:TYR:HD2	9:V:239:ILE:HG13	1.43	0.83
1:1:72:DT:H2'	10:X:188:VAL:HG21	1.58	0.83
3:A:789:ARG:NH1	3:A:796:ALA:O	2.11	0.83
4:B:161:THR:OG1	4:B:162:ASN:O	1.95	0.83
6:E:36:VAL:CG2	6:E:62:ILE:HG22	2.08	0.83
7:F:32:THR:OG1	7:F:33:VAL:N	2.07	0.83
8:G:309:PRO:O	8:G:309:PRO:CD	2.24	0.83
9:S:251:ARG:CA	9:S:258:VAL:HB	2.08	0.83
9:T:102:GLY:HA3	9:T:249:GLU:HG3	1.61	0.83
9:T:197:LYS:C	9:T:199:GLY:N	2.30	0.83
9:U:145:VAL:HA	9:U:202:MET:CE	2.05	0.83
9:V:284:ARG:NH2	9:V:290:ILE:HD11	1.93	0.83
9:V:284:ARG:HD3	9:V:284:ARG:H	1.41	0.83
1:1:44:DG:O6	2:2:82:DC:N3	2.11	0.83
3:A:165:LEU:N	3:A:173:LEU:O	2.11	0.83
3:A:180:ASN:CG	3:A:182:LEU:HD13	2.03	0.83
3:A:296:ASP:O	3:A:299:ALA:N	2.11	0.83
3:A:427:TYR:CD1	4:B:173:ILE:CD1	2.61	0.83
4:B:173:ILE:HG21	4:B:177:TYR:OH	1.78	0.83
4:B:640:ASN:HA	4:B:682:ARG:HA	1.61	0.83
9:S:162:LEU:HD11	9:S:276:VAL:HG21	0.84	0.83
9:T:2:ARG:NH2	9:T:39:LEU:CD1	2.41	0.83
9:T:189:VAL:HG13	9:T:193:GLN:CD	2.02	0.83
9:U:206:VAL:HG11	9:U:243:PRO:HD3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:247:LEU:CD2	9:V:251:ARG:HG3	2.09	0.83
10:X:123:LEU:HA	10:Y:126:LEU:HD22	1.59	0.83
3:A:81:VAL:CG2	3:A:123:THR:CG2	2.56	0.83
3:A:516:PHE:CZ	4:B:157:LEU:HB3	2.11	0.83
3:A:608:VAL:O	3:A:635:ILE:N	2.10	0.83
3:A:1037:LEU:O	3:A:1037:LEU:HG	1.79	0.83
4:B:97:THR:OG1	4:B:422:GLN:NE2	2.11	0.83
4:B:146:LEU:CD1	4:B:154:ILE:CD1	2.56	0.83
4:B:330:LEU:HD22	4:B:1010:GLY:HA2	1.58	0.83
6:E:240:LYS:HB2	6:E:243:TRP:CD1	2.13	0.83
6:E:444:PHE:CD1	6:E:493:ALA:CB	2.39	0.83
6:E:533:LYS:O	6:E:535:PHE:CE2	2.31	0.83
6:E:561:ASP:HA	6:E:604:GLN:CG	2.07	0.83
6:E:608:THR:HB	6:E:612:ARG:CD	2.08	0.83
8:G:320:GLU:O	8:G:324:LYS:HG2	1.77	0.83
10:Y:64:ILE:O	10:Y:66:VAL:N	2.12	0.83
3:A:519:THR:HG23	3:A:523:GLN:HE21	1.43	0.83
3:A:905:TRP:CD1	3:A:905:TRP:C	2.48	0.83
4:B:513:THR:HG23	4:B:515:LEU:CG	2.02	0.83
4:B:634:GLU:HB3	4:B:687:LYS:HD2	1.60	0.83
6:E:106:ILE:CD1	6:E:279:VAL:HG11	2.09	0.83
6:E:194:LEU:HD12	6:E:195:ARG:N	1.94	0.83
8:G:141:LEU:N	8:G:144:PHE:HE2	1.75	0.83
9:S:177:LEU:CG	9:S:187:GLU:HG3	2.08	0.83
9:S:281:THR:CB	9:S:284:ARG:HH11	1.91	0.83
9:T:2:ARG:CZ	9:T:39:LEU:CD1	2.56	0.83
9:T:275:ARG:HH22	9:T:277:VAL:HG22	1.41	0.83
9:V:84:LEU:O	9:V:287:ILE:CG1	2.25	0.83
10:X:167:GLY:HA3	10:X:213:HIS:CA	2.07	0.83
2:2:86:DT:H2"	2:2:87:DT:H71	1.57	0.83
3:A:127:THR:HG21	3:A:387:MET:CE	2.07	0.83
3:A:264:PRO:O	3:A:267:TYR:N	2.10	0.83
3:A:573:LEU:HD23	3:A:574:VAL:CA	2.08	0.83
3:A:1038:LEU:HD12	6:E:352:LYS:HZ3	1.39	0.83
4:B:299:TYR:HE1	4:B:315:VAL:HG11	1.42	0.83
4:B:851:GLY:HA3	4:B:877:LEU:HD11	0.83	0.83
5:C:55:ALA:HA	5:C:165:GLN:HA	1.60	0.83
5:C:57:ARG:HB2	5:C:139:GLU:HG2	0.83	0.83
6:E:224:LEU:O	6:E:227:ARG:N	2.12	0.83
8:G:339:LEU:CD2	8:G:343:LEU:HD23	2.08	0.83
9:S:8:ALA:CB	9:S:32:ILE:HD13	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:255:THR:OG1	9:V:252:LEU:HD13	1.78	0.83
9:T:288:PRO:HD3	9:T:291:LYS:HE2	1.60	0.83
3:A:256:LEU:O	3:A:259:SER:N	2.12	0.83
3:A:420:ARG:NH1	3:A:442:GLY:O	2.11	0.83
3:A:728:GLN:NE2	3:A:831:GLY:O	2.11	0.83
3:A:740:ILE:CG2	3:A:801:ASP:CG	2.52	0.83
4:B:611:VAL:HG22	4:B:622:GLU:OE1	1.79	0.83
4:B:1244:LEU:CG	4:B:1245:ILE:H	1.92	0.83
6:E:276:TYR:HA	6:E:279:VAL:HG12	1.60	0.83
6:E:457:HIS:CG	6:E:458:PRO:HD2	2.14	0.83
9:T:182:ARG:HA	9:T:261:LEU:HD12	1.61	0.83
9:V:12:ILE:HG13	9:V:15:THR:OG1	1.78	0.83
10:Y:78:LEU:HD13	10:Y:90:TYR:CZ	2.13	0.83
3:A:697:ASN:HA	3:A:701:ALA:HB3	1.61	0.83
3:A:940:ARG:CD	3:A:949:TYR:CB	2.47	0.83
4:B:269:ALA:O	4:B:272:ILE:N	2.11	0.83
5:D:188:SER:O	5:D:189:ILE:HD13	1.79	0.83
9:S:3:LEU:HD21	9:S:74:TRP:HE1	1.43	0.83
9:T:157:MET:CB	9:T:282:GLN:CA	2.57	0.83
9:U:18:PHE:CE1	9:U:36:ILE:CD1	2.62	0.83
9:U:244:SER:HA	9:U:247:LEU:HD23	1.61	0.83
9:V:188:LEU:HD12	9:V:189:VAL:HG12	1.61	0.83
10:X:28:PHE:O	10:X:98:VAL:N	2.11	0.83
3:A:35:ARG:O	3:A:39:ARG:N	2.10	0.83
3:A:296:ASP:OD1	3:A:297:ILE:N	2.12	0.83
3:A:727:ARG:HG2	3:A:728:GLN:H	1.41	0.83
3:A:740:ILE:HG22	3:A:801:ASP:CG	2.04	0.83
3:A:950:ASN:HB3	3:A:953:ASP:HB2	1.60	0.83
4:B:98:TRP:CZ3	4:B:143:MET:HE1	2.14	0.83
4:B:271:GLU:OE2	4:B:272:ILE:HG23	1.77	0.83
4:B:374:GLU:C	4:B:416:GLN:HE22	1.76	0.83
4:B:905:MET:HA	4:B:966:ILE:O	1.78	0.83
5:C:19:HIS:O	5:C:21:SER:OG	1.97	0.83
6:E:111:PRO:HB2	6:E:194:LEU:CD2	2.09	0.83
6:E:608:THR:CG2	6:E:612:ARG:CD	2.57	0.83
9:U:195:VAL:CG2	9:U:222:GLU:HA	2.09	0.83
9:U:247:LEU:CD1	9:U:251:ARG:HB2	2.09	0.83
9:V:196:PHE:HB2	9:V:203:GLN:HB2	1.59	0.83
3:A:762:TRP:CG	5:C:156:GLU:OE2	2.32	0.82
4:B:89:GLU:HG3	4:B:369:ARG:HA	1.60	0.82
4:B:144:ARG:CB	4:B:159:ILE:CG2	2.56	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:299:TYR:HA	4:B:1139:LYS:NZ	1.94	0.82
4:B:586:GLN:NE2	4:B:798:GLU:HA	1.94	0.82
4:B:853:THR:CB	4:B:876:ILE:HG22	2.09	0.82
9:S:302:PRO:HG2	9:S:304:ILE:HG12	1.61	0.82
9:T:209:LYS:CD	9:T:212:ARG:NE	2.19	0.82
9:V:168:GLU:HA	9:V:261:LEU:H	1.44	0.82
10:X:26:GLU:HB2	10:X:100:LEU:O	1.78	0.82
3:A:135:ARG:HD2	3:A:385:GLN:O	1.78	0.82
3:A:449:THR:HG22	3:A:535:VAL:CG2	2.05	0.82
4:B:89:GLU:HB3	4:B:370:THR:C	2.05	0.82
4:B:149:ASP:N	4:B:153:GLU:O	2.12	0.82
4:B:602:GLY:N	4:B:633:PRO:HA	1.93	0.82
4:B:627:GLY:HA2	4:B:745:ALA:HA	1.59	0.82
4:B:1246:PRO:CB	4:B:1251:TYR:CD1	2.62	0.82
6:E:218:GLY:C	6:E:221:ARG:HG2	2.02	0.82
6:E:429:MET:C	6:E:430:LEU:HG	2.04	0.82
9:S:32:ILE:HD11	9:S:36:ILE:HD11	1.57	0.82
9:S:88:LYS:HB3	9:S:91:GLU:CD	2.03	0.82
9:S:169:LEU:HG	9:S:170:LEU:H	1.44	0.82
9:T:123:VAL:CG2	9:V:223:VAL:CB	2.49	0.82
9:T:142:LEU:HD23	9:T:285:LEU:HD11	1.60	0.82
9:U:43:LEU:HB3	9:U:46:GLU:CD	2.04	0.82
3:A:289:VAL:HG22	3:A:291:VAL:H	1.41	0.82
4:B:53:VAL:HG13	4:B:54:ASP:N	1.90	0.82
4:B:765:SER:OG	4:B:801:GLN:HG3	1.79	0.82
6:E:30:LEU:N	6:E:34:GLN:O	2.11	0.82
6:E:106:ILE:HD13	6:E:279:VAL:CG2	2.10	0.82
9:T:146:MET:CE	9:T:205:LEU:HD22	2.00	0.82
9:T:205:LEU:HD12	9:T:206:VAL:CG2	2.06	0.82
9:T:208:GLU:O	9:T:212:ARG:HB2	1.79	0.82
9:U:77:ALA:HB2	9:V:66:ARG:HD2	1.57	0.82
9:V:108:VAL:HG22	9:V:293:PHE:HZ	1.42	0.82
10:Y:78:LEU:HD22	10:Y:88:ARG:CG	2.08	0.82
3:A:278:ASN:OD1	3:A:279:LYS:N	2.12	0.82
3:A:900:GLU:O	3:A:901:CYS:C	2.22	0.82
4:B:37:LYS:CE	6:E:509:PRO:HG3	2.09	0.82
4:B:453:VAL:HA	4:B:482:ILE:HA	1.60	0.82
4:B:504:VAL:CG2	4:B:510:LEU:HD11	2.09	0.82
4:B:1069:LEU:HD13	4:B:1071:MET:HE3	1.62	0.82
4:B:1112:HIS:O	4:B:1116:LYS:CG	2.26	0.82
4:B:1160:THR:HG22	4:B:1180:MET:HG3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:389:ILE:CG2	6:E:405:LYS:CE	2.57	0.82
9:T:97:ILE:HG22	9:T:100:LEU:CG	2.08	0.82
9:T:206:VAL:HG13	9:T:241:LEU:CG	2.10	0.82
9:V:97:ILE:HG23	9:V:202:MET:SD	2.19	0.82
9:V:210:PHE:HA	9:V:215:ALA:H	1.42	0.82
10:X:46:PHE:CZ	10:X:48:LEU:HD21	2.15	0.82
1:1:112:DG:H5'	3:A:150:LYS:NZ	1.93	0.82
3:A:199:LEU:CD2	3:A:227:GLY:C	2.52	0.82
3:A:1021:GLU:CB	6:E:441:ILE:CD1	2.39	0.82
4:B:101:THR:HB	4:B:420:LYS:HB2	1.62	0.82
4:B:443:LYS:HB2	4:B:997:LEU:HB3	1.58	0.82
4:B:659:GLU:OE1	4:B:666:CYS:HB3	1.79	0.82
4:B:1111:SER:HA	4:B:1114:LEU:HB2	1.60	0.82
5:D:156:GLU:HA	5:D:163:PHE:HE1	1.43	0.82
6:E:19:PRO:HG2	6:E:20:GLU:H	1.44	0.82
6:E:65:PRO:HG3	6:E:96:SER:HA	1.61	0.82
6:E:362:ILE:CD1	6:E:454:ILE:CB	2.57	0.82
6:E:510:SER:N	6:E:513:MET:HE3	1.93	0.82
7:F:65:MET:O	7:F:68:GLU:N	2.12	0.82
8:G:193:ARG:HA	8:G:196:GLU:OE2	1.80	0.82
9:T:181:GLU:O	9:T:182:ARG:CG	2.26	0.82
9:U:66:ARG:HD3	9:V:73:GLU:HB3	1.60	0.82
9:U:142:LEU:HD22	9:U:294:TRP:HD1	1.43	0.82
9:U:143:ALA:C	9:U:293:PHE:HE2	1.87	0.82
9:U:160:GLU:CG	9:U:298:ARG:HG3	2.10	0.82
9:V:175:HIS:CD2	9:V:177:LEU:HD13	2.14	0.82
9:V:209:LYS:NZ	9:V:262:ALA:CB	2.42	0.82
10:Y:104:PRO:HB2	10:Y:106:GLU:HG3	1.61	0.82
3:A:49:GLU:HG2	3:A:50:LEU:N	1.93	0.82
3:A:173:LEU:HD21	3:A:187:ILE:HB	1.62	0.82
3:A:616:THR:O	3:A:619:GLY:CA	2.28	0.82
4:B:936:GLU:OE2	4:B:966:ILE:HD13	1.77	0.82
6:E:585:THR:HG22	6:E:592:ARG:HE	1.44	0.82
9:S:226:LEU:CD2	9:U:227:ASP:HB3	2.09	0.82
9:T:109:LEU:O	9:T:113:CYS:SG	2.38	0.82
9:T:117:PRO:HG3	9:T:292:HIS:HB2	1.61	0.82
9:U:10:LEU:HD13	9:U:10:LEU:C	2.04	0.82
9:U:77:ALA:HB2	9:V:66:ARG:NE	1.86	0.82
9:U:157:MET:CE	9:U:159:VAL:HA	2.06	0.82
3:A:279:LYS:O	3:A:282:ARG:HG2	1.80	0.82
3:A:641:LYS:CG	3:A:643:GLN:OE1	2.26	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:339:GLU:N	6:E:339:GLU:OE1	2.13	0.82
9:T:10:LEU:CD2	9:T:64:LEU:HD13	2.10	0.82
9:V:139:LEU:HG	9:V:140:VAL:N	1.95	0.82
9:V:285:LEU:HD13	9:V:290:ILE:O	1.78	0.82
10:X:26:GLU:O	10:X:100:LEU:N	2.12	0.82
3:A:541:MET:HG3	3:A:560:GLN:HG3	1.61	0.82
3:A:568:LYS:NZ	3:A:713:ILE:CG1	2.42	0.82
3:A:616:THR:O	3:A:619:GLY:N	2.11	0.82
4:B:1109:CYS:HA	4:B:1112:HIS:HB2	1.61	0.82
5:C:25:LEU:CD2	5:C:28:LEU:CD2	2.52	0.82
6:E:304:ARG:NH1	8:G:84:LEU:HD12	1.95	0.82
8:G:221:ALA:O	8:G:223:ALA:N	2.12	0.82
9:S:232:VAL:HB	9:S:238:LEU:CD2	2.09	0.82
9:T:54:SER:O	9:T:55:LYS:HG2	1.79	0.82
9:T:196:PHE:CE2	9:T:200:TYR:HD1	1.57	0.82
9:V:285:LEU:HD12	9:V:286:GLN:N	1.95	0.82
10:X:64:ILE:O	10:X:66:VAL:N	2.12	0.82
10:X:77:VAL:HG13	10:X:78:LEU:H	1.45	0.82
1:1:94:DT:OP1	8:G:232:PRO:CB	2.28	0.82
3:A:221:LYS:HZ3	3:A:225:LYS:CD	1.93	0.82
3:A:288:THR:HG22	3:A:290:ARG:HH12	1.42	0.82
3:A:597:ASP:OD1	3:A:661:GLU:N	2.13	0.82
3:A:749:ARG:HE	3:A:750:GLN:CD	1.87	0.82
3:A:1047:GLY:O	3:A:1050:GLU:N	2.12	0.82
4:B:922:ILE:HG23	4:B:928:LEU:CD1	2.10	0.82
5:D:28:LEU:HD13	5:D:33:GLY:HA3	0.87	0.82
6:E:510:SER:H	6:E:513:MET:CE	1.91	0.82
8:G:226:SER:OG	8:G:226:SER:O	1.86	0.82
8:G:304:SER:OG	8:G:305:ASP:N	2.09	0.82
9:S:184:PRO:HA	9:S:213:LEU:CD1	2.09	0.82
9:T:194:VAL:HG23	9:T:218:GLN:O	1.78	0.82
9:T:231:GLY:HA2	9:V:105:LEU:CD2	2.10	0.82
9:U:135:LEU:HD11	9:U:142:LEU:O	1.80	0.82
9:U:155:ARG:O	9:U:157:MET:N	2.13	0.82
9:V:98:HIS:CE1	9:V:202:MET:HG3	2.15	0.82
9:V:262:ALA:O	9:V:271:GLY:HA3	1.79	0.82
10:X:78:LEU:HD13	10:X:90:TYR:CZ	2.14	0.82
3:A:507:GLN:OE1	3:A:519:THR:N	2.13	0.82
4:B:107:ASP:OD1	4:B:108:GLU:N	2.13	0.82
4:B:135:SER:O	4:B:138:ARG:HG2	1.77	0.82
4:B:507:ASN:HB2	4:B:877:LEU:HD22	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:854:GLN:HE21	4:B:875:GLN:CG	1.92	0.82
8:G:290:ILE:HG23	8:G:296:SER:O	1.80	0.82
8:G:367:GLN:N	8:G:367:GLN:CD	2.38	0.82
9:S:155:ARG:NH2	9:S:158:VAL:HG13	1.84	0.82
9:T:205:LEU:CD1	9:T:206:VAL:N	2.40	0.82
9:T:205:LEU:HD13	9:T:274:ARG:HD2	1.61	0.82
9:V:210:PHE:CG	9:V:215:ALA:HB3	2.14	0.82
3:A:131:ASN:O	3:A:133:ALA:N	2.12	0.81
3:A:792:PHE:CB	8:G:390:ARG:OXT	2.28	0.81
3:A:1036:GLU:OE1	3:A:1037:LEU:HD12	1.79	0.81
4:B:160:LYS:CD	4:B:171:GLU:OE1	2.23	0.81
4:B:480:ILE:HG12	4:B:974:VAL:HG21	1.59	0.81
5:C:156:GLU:HA	5:C:163:PHE:CZ	2.15	0.81
6:E:557:TYR:HA	6:E:607:TYR:HA	1.62	0.81
9:S:5:GLN:O	9:S:9:PHE:HD1	1.63	0.81
9:S:164:ASP:CG	9:S:273:THR:OG1	2.23	0.81
10:X:78:LEU:HD13	10:X:90:TYR:CE2	2.14	0.81
3:A:39:ARG:O	3:A:42:LEU:HD23	1.80	0.81
3:A:276:LYS:O	3:A:279:LYS:N	2.13	0.81
3:A:357:GLU:N	3:A:357:GLU:OE1	2.12	0.81
3:A:547:HIS:CD2	4:B:166:GLY:HA3	2.15	0.81
3:A:673:SER:OG	3:A:674:SER:OG	1.97	0.81
4:B:266:ASP:OD1	4:B:266:ASP:N	2.08	0.81
4:B:1107:TYR:O	4:B:1110:ALA:N	2.13	0.81
6:E:362:ILE:CG1	6:E:473:MET:SD	2.67	0.81
9:S:168:GLU:CD	9:S:247:LEU:HD23	2.05	0.81
9:U:160:GLU:HG2	9:U:298:ARG:CG	2.10	0.81
9:U:199:GLY:CA	9:U:207:GLN:HE22	1.92	0.81
9:V:204:ARG:O	9:V:208:GLU:HB2	1.80	0.81
10:X:115:ASN:OD1	10:X:117:GLU:N	2.13	0.81
10:Y:95:PHE:HE2	10:Y:172:LEU:HD12	1.45	0.81
1:1:23:DC:H42	9:U:34:ARG:HH22	0.84	0.81
3:A:49:GLU:HG2	3:A:50:LEU:H	1.46	0.81
3:A:274:ARG:NH2	3:A:286:PRO:O	2.13	0.81
3:A:737:THR:OG1	3:A:739:GLU:N	2.13	0.81
3:A:1002:THR:HG23	3:A:1004:GLN:H	1.45	0.81
3:A:1005:PRO:O	6:E:353:ARG:HD2	1.79	0.81
3:A:1049:ASN:O	3:A:1052:LEU:N	2.13	0.81
4:B:10:LYS:HZ2	4:B:14:ARG:NH2	1.77	0.81
4:B:229:SER:HB2	4:B:407:GLY:HA3	1.63	0.81
4:B:242:ARG:HD3	4:B:1138:ASP:OD2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:247:ASP:OD2	4:B:259:PRO:HA	1.80	0.81
4:B:299:TYR:HA	4:B:1139:LYS:HE3	1.58	0.81
4:B:356:THR:N	4:B:412:ILE:CD1	2.38	0.81
4:B:458:VAL:HG12	4:B:478:GLY:HA3	1.62	0.81
4:B:542:ALA:CB	4:B:833:VAL:HA	2.09	0.81
4:B:1249:THR:HG22	4:B:1253:THR:OG1	1.81	0.81
6:E:106:ILE:HD13	6:E:279:VAL:CG1	2.10	0.81
6:E:259:MET:HG2	6:E:269:THR:HA	1.61	0.81
6:E:275:LEU:O	6:E:278:ARG:HB3	1.80	0.81
6:E:377:ARG:H	6:E:450:GLU:HA	1.43	0.81
6:E:420:GLU:HB2	6:E:448:LEU:HD22	0.82	0.81
6:E:485:ALA:HA	6:E:488:ARG:HE	1.44	0.81
6:E:536:ALA:HB3	6:E:538:LEU:HD21	1.59	0.81
9:S:124:THR:OG1	9:S:125:SER:O	1.98	0.81
9:S:132:LEU:CD2	9:U:24:LYS:HD2	2.09	0.81
9:T:275:ARG:HE	9:T:276:VAL:N	1.78	0.81
9:U:296:LEU:HD12	9:U:300:ASN:HB3	0.83	0.81
9:V:49:HIS:NE2	9:V:57:THR:HB	1.95	0.81
9:V:72:LEU:HA	9:V:75:GLU:CB	2.09	0.81
9:V:98:HIS:ND1	9:V:202:MET:HG3	1.96	0.81
9:V:169:LEU:HD21	9:V:239:ILE:HG23	1.62	0.81
10:Y:77:VAL:HG13	10:Y:78:LEU:H	1.44	0.81
5:C:42:ARG:NH2	5:D:32:GLN:HA	1.95	0.81
5:D:5:GLN:HE22	5:D:27:PRO:HD3	1.46	0.81
5:D:19:HIS:O	5:D:21:SER:OG	1.97	0.81
5:D:126:TYR:OH	5:D:129:THR:N	2.13	0.81
6:E:61:ARG:NE	6:E:89:CYS:SG	2.53	0.81
6:E:250:PRO:O	6:E:251:VAL:HG23	1.79	0.81
9:S:169:LEU:HD13	9:S:188:LEU:HD21	1.61	0.81
9:T:157:MET:CB	9:T:294:TRP:CD2	2.53	0.81
9:T:206:VAL:HG11	9:T:241:LEU:HG	1.60	0.81
9:U:206:VAL:HG11	9:U:243:PRO:CD	2.10	0.81
9:V:295:GLN:HB3	9:V:298:ARG:HH22	1.44	0.81
3:A:55:PRO:HB3	3:A:66:HIS:CE1	2.16	0.81
3:A:134:GLU:HG2	3:A:134:GLU:O	1.80	0.81
3:A:787:LEU:C	3:A:791:ILE:HG12	2.04	0.81
4:B:189:ARG:NH1	4:B:332:MET:O	2.14	0.81
4:B:622:GLU:OE2	4:B:624:VAL:N	2.12	0.81
4:B:999:PHE:CE1	4:B:1001:ARG:HB2	2.16	0.81
6:E:537:SER:HB2	6:E:558:VAL:HG12	1.62	0.81
9:U:206:VAL:CG1	9:U:274:ARG:NH1	2.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:97:ILE:HB	9:V:274:ARG:HH12	0.65	0.81
9:V:180:TYR:HA	9:V:187:GLU:HG3	1.60	0.81
10:Y:42:GLU:HG2	10:Y:84:ASN:HA	1.62	0.81
3:A:888:GLY:CA	3:A:892:ARG:NH1	2.44	0.81
3:A:1083:ASP:N	3:A:1083:ASP:OD1	2.06	0.81
4:B:65:LEU:HG	4:B:420:LYS:HE3	1.60	0.81
4:B:111:THR:O	4:B:114:LYS:N	2.14	0.81
4:B:481:TRP:HE1	4:B:971:PRO:CB	1.76	0.81
4:B:497:VAL:H	4:B:511:ALA:HA	1.44	0.81
4:B:532:LYS:HZ2	4:B:844:ILE:HG12	1.45	0.81
5:D:67:THR:HA	5:D:74:ASP:OD2	1.81	0.81
5:D:80:MET:HG2	6:E:534:TYR:HE1	1.43	0.81
5:D:90:TYR:HA	5:D:144:ARG:NH1	1.95	0.81
6:E:86:CYS:C	6:E:89:CYS:H	1.89	0.81
6:E:541:VAL:HB	6:E:610:PRO:HB3	1.61	0.81
6:E:608:THR:CG2	6:E:612:ARG:NE	2.43	0.81
9:T:12:ILE:CD1	9:T:18:PHE:HB3	2.10	0.81
9:T:249:GLU:OE2	9:V:227:ASP:OD2	1.98	0.81
10:Y:105:ILE:O	10:Y:109:GLU:CB	2.25	0.81
3:A:235:LEU:HD23	3:A:250:VAL:HG12	1.63	0.81
3:A:388:ASP:OD1	3:A:388:ASP:O	1.98	0.81
3:A:423:HIS:O	3:A:425:SER:N	2.13	0.81
4:B:151:GLN:O	4:B:153:GLU:N	2.11	0.81
4:B:157:LEU:CB	4:B:174:ILE:HD11	2.11	0.81
4:B:283:ARG:NH2	4:B:298:CYS:HB3	1.95	0.81
4:B:479:LEU:CA	4:B:481:TRP:CH2	2.64	0.81
5:C:75:VAL:HG13	5:C:79:ILE:HG12	1.62	0.81
7:F:41:ARG:HB3	7:F:42:ARG:NH1	1.96	0.81
9:S:85:ILE:H	9:S:89:GLN:HG2	1.46	0.81
9:S:142:LEU:CG	9:S:278:MET:CE	2.55	0.81
9:U:126:LEU:HB3	9:U:130:ARG:NH1	1.95	0.81
9:V:167:ILE:CA	9:V:243:PRO:HA	2.09	0.81
3:A:762:TRP:HB2	3:A:813:ARG:NH2	1.96	0.81
4:B:1099:SER:O	4:B:1102:SER:OG	1.98	0.81
5:D:149:ARG:CD	6:E:549:GLN:HE21	1.89	0.81
6:E:260:VAL:HG11	8:G:286:LEU:HD13	1.62	0.81
8:G:326:LEU:HG	8:G:334:ARG:HG3	1.62	0.81
9:S:9:PHE:HA	9:S:12:ILE:HD12	1.62	0.81
9:T:144:ILE:HA	9:T:278:MET:SD	2.21	0.81
9:T:206:VAL:HG13	9:T:241:LEU:HD12	1.63	0.81
9:U:111:LYS:NZ	9:U:292:HIS:CD2	2.49	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:164:ASP:O	9:V:165:GLU:CD	2.23	0.81
10:Y:212:VAL:HG21	10:Y:218:LEU:HD21	1.62	0.81
3:A:82:GLU:O	3:A:86:ARG:HG3	1.80	0.81
3:A:196:GLN:OE1	3:A:200:LYS:HD3	1.81	0.81
3:A:1069:SER:OG	3:A:1070:PHE:N	2.02	0.81
4:B:1207:PHE:C	4:B:1220:LEU:HD11	2.05	0.81
8:G:118:GLU:N	8:G:118:GLU:OE1	2.13	0.81
9:T:201:GLY:C	9:T:205:LEU:HD23	2.05	0.81
3:A:35:ARG:HH21	3:A:39:ARG:NH1	1.79	0.81
3:A:221:LYS:HZ2	3:A:225:LYS:HG2	1.46	0.81
3:A:296:ASP:OD1	3:A:296:ASP:N	2.11	0.81
3:A:304:LEU:CD2	3:A:307:LEU:HD21	2.10	0.81
3:A:516:PHE:CE1	4:B:157:LEU:CA	2.64	0.81
3:A:559:MET:HE3	3:A:982:LEU:HD12	1.62	0.81
3:A:752:ASP:N	3:A:756:ILE:O	2.14	0.81
4:B:1246:PRO:CB	4:B:1251:TYR:CE1	2.62	0.81
5:C:32:GLN:NE2	5:D:43:VAL:HG22	1.95	0.81
6:E:71:CYS:HA	6:E:91:VAL:HG11	1.62	0.81
6:E:412:ASP:OD2	6:E:414:SER:OG	1.98	0.81
8:G:314:SER:OG	8:G:315:LYS:N	2.10	0.81
9:S:10:LEU:O	9:S:13:ALA:N	2.14	0.81
9:U:66:ARG:HB2	9:V:73:GLU:CD	2.05	0.81
9:U:96:ALA:H	9:U:123:VAL:HG21	1.45	0.81
9:U:175:HIS:CE1	9:U:233:VAL:CG1	2.63	0.81
10:X:171:ASP:O	10:X:172:LEU:HG	1.81	0.81
3:A:268:ASP:OD1	3:A:270:GLY:N	2.14	0.80
3:A:539:THR:HG23	3:A:561:ARG:HH21	0.98	0.80
3:A:819:LEU:HD11	3:A:836:VAL:HA	1.62	0.80
4:B:86:THR:N	4:B:371:ARG:O	2.13	0.80
4:B:653:TYR:OH	4:B:668:ASN:ND2	2.15	0.80
4:B:802:GLU:HG2	4:B:803:GLY:N	1.96	0.80
5:C:146:LYS:HE3	5:D:29:GLU:OE1	1.81	0.80
6:E:315:ASP:OD2	6:E:318:ARG:HG2	1.81	0.80
8:G:301:PHE:O	8:G:302:ILE:HG13	1.80	0.80
9:T:156:ASP:OD1	9:T:285:LEU:HB3	1.80	0.80
9:T:194:VAL:HG12	9:T:222:GLU:HG3	1.63	0.80
9:T:209:LYS:HZ1	9:T:274:ARG:CB	1.88	0.80
9:U:176:PRO:HG2	9:U:239:ILE:CD1	2.11	0.80
9:U:206:VAL:HG11	9:U:274:ARG:HD2	1.62	0.80
9:V:94:ILE:HG23	9:V:144:ILE:HG23	1.61	0.80
3:A:940:ARG:HD2	3:A:949:TYR:CG	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:36:LEU:HA	4:B:39:LEU:HD12	1.63	0.80
4:B:157:LEU:CB	4:B:174:ILE:CD1	2.59	0.80
4:B:181:LYS:O	4:B:184:VAL:HG22	1.81	0.80
4:B:366:ARG:NE	4:B:377:LEU:HB2	1.96	0.80
4:B:490:LEU:CB	4:B:876:ILE:HD11	2.11	0.80
4:B:510:LEU:HB2	4:B:877:LEU:HA	1.61	0.80
4:B:603:PHE:HD2	4:B:687:LYS:HZ1	1.26	0.80
4:B:940:ILE:HG13	4:B:966:ILE:HB	1.62	0.80
4:B:1128:VAL:HA	4:B:1131:SER:CB	2.11	0.80
5:C:221:PHE:CE1	5:D:36:VAL:CB	2.65	0.80
7:F:29:TYR:O	7:F:32:THR:OG1	1.97	0.80
9:S:88:LYS:CB	9:S:91:GLU:OE2	2.23	0.80
9:T:171:THR:HG21	9:T:175:HIS:CE1	2.16	0.80
9:U:206:VAL:HG23	9:U:274:ARG:HG3	1.62	0.80
9:V:147:ASN:HB2	9:V:277:VAL:HG22	1.62	0.80
10:Y:78:LEU:HD13	10:Y:90:TYR:CE2	2.16	0.80
3:A:334:ASN:OD1	3:A:335:GLN:N	2.15	0.80
3:A:404:ALA:HB3	3:A:443:LEU:HD21	1.64	0.80
3:A:1044:ASP:CG	3:A:1047:GLY:H	1.87	0.80
3:A:1100:VAL:HG23	6:E:101:HIS:HE1	1.39	0.80
4:B:510:LEU:HD22	4:B:878:SER:H	1.45	0.80
4:B:521:GLY:N	4:B:864:THR:HA	1.96	0.80
4:B:1049:ILE:CG2	4:B:1064:GLY:H	1.94	0.80
4:B:1152:VAL:HA	4:B:1192:PRO:HA	1.63	0.80
4:B:1249:THR:HG21	7:F:33:VAL:HG21	1.60	0.80
6:E:281:ASN:HB3	6:E:285:ARG:CZ	2.11	0.80
8:G:353:GLU:O	8:G:357:ILE:N	2.11	0.80
8:G:356:GLN:N	8:G:356:GLN:OE1	2.14	0.80
9:U:108:VAL:HG22	9:U:112:PHE:HD1	1.44	0.80
10:Y:115:ASN:OD1	10:Y:117:GLU:N	2.13	0.80
2:2:90:DG:OP2	9:T:35:GLN:NE2	2.13	0.80
3:A:34:GLN:N	3:A:34:GLN:CD	2.33	0.80
3:A:275:TYR:OH	3:A:279:LYS:NZ	2.12	0.80
3:A:292:LEU:HD23	3:A:292:LEU:H	1.45	0.80
3:A:940:ARG:CD	3:A:949:TYR:CG	2.64	0.80
3:A:1045:MET:O	3:A:1048:ARG:HG2	1.81	0.80
4:B:146:LEU:HG	4:B:154:ILE:CD1	2.11	0.80
4:B:513:THR:CG2	4:B:515:LEU:CG	2.55	0.80
4:B:1128:VAL:HA	4:B:1131:SER:HB2	1.62	0.80
4:B:1148:MET:HE1	4:B:1194:LEU:HB3	1.62	0.80
4:B:1222:GLU:CG	6:E:124:TYR:CZ	2.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:219:ASP:N	5:C:219:ASP:OD1	2.08	0.80
6:E:106:ILE:HD11	6:E:279:VAL:HG11	1.63	0.80
9:S:151:LEU:HD12	9:U:21:ALA:H	1.47	0.80
9:U:43:LEU:CB	9:U:46:GLU:OE1	2.19	0.80
10:X:163:PRO:HB3	10:X:168:ILE:HD12	1.62	0.80
10:Y:171:ASP:O	10:Y:172:LEU:HG	1.81	0.80
3:A:290:ARG:HD2	3:A:290:ARG:N	1.95	0.80
3:A:738:ARG:NH1	3:A:753:GLU:OE1	2.10	0.80
3:A:893:MET:SD	4:B:139:GLN:NE2	2.54	0.80
4:B:366:ARG:NH1	4:B:369:ARG:O	2.15	0.80
5:C:126:TYR:OH	5:C:129:THR:N	2.13	0.80
9:T:156:ASP:O	9:T:157:MET:HB3	1.79	0.80
10:X:127:SER:HA	10:X:131:LEU:HB2	1.63	0.80
10:Y:212:VAL:CG2	10:Y:218:LEU:HD23	2.09	0.80
2:2:46:DT:OP1	8:G:352:GLU:OE2	1.98	0.80
3:A:328:VAL:HG23	3:A:329:GLY:N	1.96	0.80
3:A:741:PRO:C	3:A:743:VAL:H	1.89	0.80
3:A:765:ALA:HA	3:A:809:GLY:N	1.95	0.80
3:A:897:GLN:CD	3:A:897:GLN:H	1.90	0.80
3:A:904:GLY:O	3:A:905:TRP:C	2.19	0.80
3:A:966:GLU:N	3:A:966:GLU:OE1	2.15	0.80
4:B:503:ARG:HA	4:B:882:GLY:O	1.81	0.80
4:B:776:TYR:HD2	4:B:780:GLU:HB2	1.47	0.80
4:B:1202:LEU:HB3	4:B:1215:GLU:OE2	1.82	0.80
5:C:64:GLU:OE1	5:C:65:PHE:CE1	2.34	0.80
5:C:141:ARG:HE	5:C:155:ARG:HD2	1.47	0.80
5:C:169:ILE:HG22	5:C:171:MET:HB2	1.62	0.80
6:E:389:ILE:HG22	6:E:405:LYS:CG	2.10	0.80
8:G:119:ARG:O	8:G:123:LYS:NZ	2.13	0.80
8:G:351:LEU:HD13	8:G:366:ARG:HH21	1.47	0.80
9:S:132:LEU:HA	9:S:150:PHE:CA	2.11	0.80
9:U:144:ILE:HG12	9:U:297:VAL:HG21	1.64	0.80
9:V:146:MET:CG	9:V:274:ARG:CD	2.44	0.80
3:A:360:THR:HG23	3:A:363:SER:N	1.96	0.80
3:A:882:ILE:HG22	3:A:883:VAL:O	1.82	0.80
4:B:2:ILE:O	4:B:2:ILE:HG23	1.82	0.80
4:B:199:ARG:HD2	4:B:1214:GLN:CG	2.12	0.80
4:B:355:GLY:HA2	4:B:412:ILE:HD13	1.63	0.80
4:B:359:LEU:CD2	4:B:393:GLY:O	2.29	0.80
6:E:55:ASP:OD1	6:E:56:GLY:N	2.13	0.80
8:G:141:LEU:O	8:G:145:ARG:HG3	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:104:TYR:HD2	9:S:301:ILE:CG2	1.93	0.80
9:S:278:MET:CB	9:S:294:TRP:CE2	2.50	0.80
9:U:206:VAL:HG12	9:U:274:ARG:HH11	1.46	0.80
9:V:160:GLU:OE2	9:V:294:TRP:O	1.97	0.80
3:A:381:SER:C	3:A:383:LEU:H	1.90	0.80
4:B:452:GLU:HA	4:B:987:LEU:HA	1.63	0.80
4:B:541:THR:OG1	4:B:764:ARG:NH2	2.15	0.80
5:C:53:VAL:HG11	5:C:82:MET:CE	2.10	0.80
5:D:156:GLU:CG	5:D:163:PHE:CZ	2.64	0.80
6:E:71:CYS:SG	6:E:89:CYS:HB3	2.22	0.80
6:E:113:ALA:HA	6:E:245:VAL:HA	1.62	0.80
9:S:43:LEU:CD2	9:S:63:LEU:CD1	2.42	0.80
9:T:170:LEU:HD12	9:T:233:VAL:HG21	1.58	0.80
9:V:160:GLU:N	9:V:278:MET:CG	2.25	0.80
10:X:105:ILE:O	10:X:109:GLU:CB	2.25	0.80
10:Y:111:ALA:O	10:Y:119:SER:OG	1.99	0.80
3:A:166:ILE:HG13	3:A:172:TRP:HA	1.62	0.80
3:A:423:HIS:CE1	3:A:424:PRO:HD2	2.16	0.80
3:A:464:ARG:HD3	3:A:528:ALA:O	1.81	0.80
3:A:775:PRO:O	3:A:776:LYS:CG	2.29	0.80
4:B:270:LYS:HG2	4:B:274:LYS:HD2	1.64	0.80
5:C:52:ALA:CB	5:C:168:SER:OG	2.30	0.80
5:C:75:VAL:CG1	5:C:79:ILE:HG12	2.11	0.80
5:D:178:TYR:HD1	5:D:196:LEU:HD22	1.43	0.80
6:E:125:ILE:CD1	6:E:244:MET:SD	2.70	0.80
6:E:389:ILE:CG2	6:E:405:LYS:HD2	2.12	0.80
6:E:536:ALA:CB	6:E:538:LEU:HD23	2.11	0.80
8:G:112:GLU:O	8:G:115:ARG:N	2.14	0.80
8:G:218:ILE:CG1	8:G:219:THR:N	2.44	0.80
8:G:350:THR:O	8:G:353:GLU:N	2.15	0.80
9:T:197:LYS:O	9:T:203:GLN:CG	2.29	0.80
9:U:62:ARG:HD2	9:V:87:GLY:HA3	1.64	0.80
9:V:84:LEU:HD12	9:V:85:ILE:N	1.88	0.80
9:V:165:GLU:HG3	9:V:245:SER:OG	1.80	0.80
10:X:44:VAL:CG2	10:X:101:LEU:HD11	2.02	0.80
10:Y:45:TYR:HE2	10:Y:75:PHE:CD2	1.87	0.80
10:Y:169:THR:HA	10:Y:211:THR:CG2	2.11	0.80
3:A:373:ALA:O	3:A:376:GLU:HB2	1.80	0.80
3:A:706:GLU:HG3	3:A:710:GLN:HE22	1.46	0.80
3:A:813:ARG:O	3:A:840:VAL:HG23	1.82	0.80
3:A:1055:ILE:HD12	6:E:387:PHE:HE1	0.97	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:54:ASP:N	4:B:54:ASP:OD1	2.07	0.80
4:B:157:LEU:CD2	4:B:174:ILE:HD11	1.95	0.80
4:B:299:TYR:CA	4:B:1139:LYS:HE3	2.12	0.80
4:B:659:GLU:OE2	4:B:666:CYS:HB3	1.77	0.80
4:B:858:GLU:N	4:B:858:GLU:OE1	2.15	0.80
4:B:922:ILE:HG21	4:B:928:LEU:CD2	2.12	0.80
5:C:217:LEU:HD12	5:C:221:PHE:HB2	1.63	0.80
5:D:55:ALA:HB3	5:D:141:ARG:H	1.46	0.80
6:E:119:LYS:HB2	6:E:319:ARG:HD3	1.64	0.80
6:E:372:GLN:HA	6:E:445:GLU:N	1.96	0.80
9:T:146:MET:HA	9:T:276:VAL:HA	1.63	0.80
10:Y:42:GLU:HA	10:Y:79:SER:HB2	1.63	0.80
1:1:94:DT:P	8:G:232:PRO:HB2	2.23	0.79
3:A:629:SER:HA	3:A:633:GLN:CD	2.07	0.79
4:B:4:ARG:HA	6:E:565:GLU:HB3	1.64	0.79
4:B:491:PRO:HD2	4:B:876:ILE:HD13	0.85	0.79
4:B:701:ILE:HG23	4:B:704:ASP:HB3	1.63	0.79
5:D:119:GLU:OE2	5:D:121:ILE:HD13	1.82	0.79
6:E:44:THR:OG1	6:E:45:ILE:N	2.13	0.79
6:E:268:ALA:HB1	8:G:286:LEU:HB2	1.62	0.79
8:G:103:LEU:HD13	8:G:158:MET:SD	2.22	0.79
9:S:60:GLY:HA2	9:S:63:LEU:HB3	1.64	0.79
9:T:185:TRP:HB3	9:T:213:LEU:CB	2.12	0.79
9:T:202:MET:CA	9:T:205:LEU:HG	2.02	0.79
9:U:45:LEU:HB3	9:U:59:GLY:HA2	1.62	0.79
10:Y:34:ILE:N	10:Y:91:HIS:HE1	1.81	0.79
10:Y:68:LEU:HD21	10:Y:132:GLN:HB2	1.62	0.79
1:1:101:DT:C5'	8:G:204:TYR:CZ	2.64	0.79
3:A:490:VAL:O	3:A:511:ARG:N	2.14	0.79
3:A:1098:LEU:HD22	3:A:1100:VAL:HG22	1.64	0.79
4:B:173:ILE:CG2	4:B:177:TYR:CE1	2.65	0.79
4:B:457:GLU:HB2	4:B:481:TRP:CH2	2.17	0.79
4:B:942:GLY:N	4:B:965:THR:O	2.16	0.79
5:C:99:LEU:N	5:C:113:ASP:OD2	2.15	0.79
6:E:141:TYR:HD1	6:E:304:ARG:HE	0.82	0.79
7:F:58:VAL:HG23	7:F:62:ILE:HD11	1.64	0.79
9:S:4:GLU:O	9:S:8:ALA:HB3	1.82	0.79
9:T:108:VAL:CG1	9:T:296:LEU:HD11	2.11	0.79
9:T:167:ILE:CD1	9:T:274:ARG:CD	2.47	0.79
9:T:206:VAL:CG1	9:T:241:LEU:CG	2.61	0.79
9:U:45:LEU:HD13	9:U:63:LEU:N	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:92:LEU:HD23	9:U:287:ILE:HD11	1.65	0.79
9:U:195:VAL:HG23	9:U:222:GLU:HA	1.63	0.79
9:V:200:TYR:HB3	9:V:203:GLN:HB3	1.65	0.79
10:Y:27:THR:HA	10:Y:98:VAL:O	1.82	0.79
10:Y:95:PHE:CE2	10:Y:172:LEU:HD12	2.17	0.79
3:A:114:VAL:HG11	3:A:365:VAL:HG21	1.64	0.79
3:A:374:ILE:O	3:A:377:PHE:N	2.15	0.79
3:A:395:GLU:O	3:A:399:LYS:HG2	1.80	0.79
3:A:719:ILE:HG22	3:A:841:ALA:CB	2.11	0.79
4:B:265:SER:OG	4:B:266:ASP:N	1.95	0.79
4:B:318:ILE:CD1	6:E:438:ARG:HH11	1.93	0.79
4:B:710:PRO:CD	4:B:722:LEU:CD2	2.54	0.79
8:G:192:ILE:O	8:G:194:ALA:N	2.16	0.79
9:S:177:LEU:CD2	9:S:187:GLU:HG3	2.11	0.79
9:S:251:ARG:HG3	9:S:258:VAL:H	0.66	0.79
9:U:142:LEU:HD12	9:U:293:PHE:CD2	2.17	0.79
9:V:175:HIS:CD2	9:V:176:PRO:HD2	2.16	0.79
3:A:32:GLU:HB3	3:A:35:ARG:HB3	1.63	0.79
3:A:466:VAL:HG22	3:A:471:VAL:HB	1.64	0.79
4:B:750:PRO:O	4:B:751:ASP:OD1	2.01	0.79
5:D:99:LEU:N	5:D:113:ASP:OD2	2.15	0.79
6:E:371:HIS:CD2	6:E:494:SER:HB3	2.06	0.79
6:E:488:ARG:HD2	7:F:58:VAL:CG2	2.11	0.79
8:G:135:GLU:HG3	8:G:139:LEU:HD12	1.64	0.79
9:S:81:LEU:H	9:S:81:LEU:CD1	1.94	0.79
9:T:102:GLY:CA	9:V:227:ASP:HB3	2.11	0.79
9:T:193:GLN:HE22	9:T:239:ILE:C	1.90	0.79
9:U:12:ILE:CD1	9:U:36:ILE:HD11	2.11	0.79
9:U:92:LEU:HD23	9:U:287:ILE:CD1	2.11	0.79
9:U:95:ALA:HB3	9:U:143:ALA:HA	1.64	0.79
9:U:195:VAL:HG21	9:U:222:GLU:CG	2.09	0.79
9:V:160:GLU:HB2	9:V:278:MET:HE3	1.62	0.79
9:V:190:ARG:O	9:V:191:TYR:CD2	2.34	0.79
3:A:686:ILE:CD1	3:A:979:MET:HG2	2.11	0.79
3:A:782:PRO:O	3:A:785:GLU:N	2.15	0.79
3:A:928:SER:HA	3:A:931:ILE:HD12	1.65	0.79
3:A:993:ARG:HH12	3:A:995:THR:C	1.90	0.79
3:A:999:SER:N	3:A:1004:GLN:O	2.16	0.79
4:B:6:ARG:NH1	4:B:12:GLN:OE1	2.16	0.79
6:E:537:SER:CB	6:E:558:VAL:CG1	2.60	0.79
9:S:142:LEU:HG	9:S:278:MET:HE2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:18:PHE:CD2	9:T:33:SER:HB3	2.18	0.79
9:T:93:CYS:HB2	9:T:140:VAL:HA	1.62	0.79
9:V:134:VAL:HB	9:V:139:LEU:HB2	1.65	0.79
3:A:740:ILE:HG23	3:A:801:ASP:OD2	1.81	0.79
3:A:1073:LEU:CD1	6:E:338:ILE:HG21	2.13	0.79
4:B:52:SER:H	4:B:55:ASP:HB2	1.46	0.79
4:B:97:THR:CA	4:B:422:GLN:HA	2.11	0.79
4:B:635:GLU:O	4:B:686:VAL:N	2.16	0.79
4:B:852:SER:N	4:B:877:LEU:CG	2.39	0.79
5:D:90:TYR:HE2	9:U:155:ARG:CD	1.87	0.79
5:D:188:SER:O	5:D:189:ILE:HG12	1.81	0.79
6:E:608:THR:CB	6:E:612:ARG:CD	2.61	0.79
9:S:132:LEU:HA	9:S:150:PHE:HA	1.65	0.79
9:S:175:HIS:CD2	9:S:177:LEU:HB2	2.17	0.79
9:S:176:PRO:O	9:S:180:TYR:N	2.12	0.79
9:S:212:ARG:HD2	9:S:267:PRO:CA	2.13	0.79
9:U:243:PRO:HD2	9:U:274:ARG:HD3	1.62	0.79
10:Y:47:LEU:HD13	10:Y:69:LEU:HB3	1.65	0.79
3:A:55:PRO:HB3	3:A:66:HIS:HE1	1.47	0.79
3:A:400:ARG:O	3:A:447:LEU:HD13	1.82	0.79
3:A:430:ILE:HG23	3:A:446:SER:N	1.96	0.79
4:B:57:MET:HG3	4:B:58:VAL:N	1.96	0.79
4:B:268:LEU:O	4:B:272:ILE:HG12	1.81	0.79
4:B:330:LEU:HB2	4:B:1011:LEU:HD11	1.57	0.79
4:B:480:ILE:HG22	4:B:972:TYR:HD2	1.46	0.79
5:C:179:SER:O	5:C:195:LEU:N	2.15	0.79
6:E:80:ARG:HH21	8:G:345:ASP:HB3	1.47	0.79
9:T:166:PRO:HA	9:T:273:THR:HA	1.64	0.79
9:T:288:PRO:CD	9:T:291:LYS:HE2	2.13	0.79
1:1:23:DC:H41	9:U:34:ARG:HH22	1.28	0.79
3:A:498:ASP:OD1	3:A:502:TYR:N	2.15	0.79
3:A:861:ILE:HD13	6:E:470:GLY:H	1.47	0.79
3:A:1094:ASP:OD1	3:A:1095:GLY:N	2.16	0.79
4:B:86:THR:H	4:B:371:ARG:CB	1.95	0.79
4:B:173:ILE:HG22	4:B:177:TYR:CE1	2.18	0.79
5:C:99:LEU:O	5:C:100:LEU:HD12	1.83	0.79
5:C:217:LEU:O	5:C:221:PHE:N	2.14	0.79
6:E:434:PRO:HB2	6:E:436:LEU:CD2	2.13	0.79
6:E:520:LEU:HG	6:E:552:LEU:CD2	2.05	0.79
8:G:118:GLU:O	8:G:121:SER:OG	1.99	0.79
8:G:211:THR:OG1	8:G:212:TRP:N	2.14	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:255:ARG:HG2	8:G:256:LYS:H	1.44	0.79
8:G:370:ALA:HA	8:G:373:LEU:HB3	1.63	0.79
9:S:39:LEU:O	9:S:39:LEU:HD22	1.83	0.79
9:T:126:LEU:HD13	9:T:131:ALA:HB2	1.65	0.79
9:U:296:LEU:HG	9:U:301:ILE:HG12	1.12	0.79
9:V:9:PHE:C	9:V:12:ILE:HG22	2.08	0.79
1:1:18:DA:H2"	1:1:19:DA:C8	2.18	0.79
3:A:64:GLU:N	3:A:102:LEU:O	2.15	0.79
3:A:607:ARG:HB3	3:A:607:ARG:NH1	1.98	0.79
3:A:1084:ILE:HG12	3:A:1086:VAL:HG13	1.64	0.79
4:B:330:LEU:HD12	4:B:1011:LEU:CD1	2.13	0.79
4:B:538:GLU:HG3	4:B:540:ILE:HG12	1.64	0.79
5:D:3:GLN:N	5:D:5:GLN:HB3	1.98	0.79
6:E:146:VAL:HG22	6:E:161:LEU:HB3	1.64	0.79
9:S:135:LEU:HD12	9:S:138:GLY:HA2	1.63	0.79
9:S:263:ASN:HD21	9:S:265:ALA:CB	1.80	0.79
9:T:236:GLY:HA2	9:T:239:ILE:HD11	1.64	0.79
9:U:278:MET:HG3	9:U:297:VAL:CG1	2.08	0.79
10:Y:35:PHE:O	10:Y:91:HIS:ND1	2.15	0.79
1:1:46:DA:H2"	1:1:47:DT:C7	2.13	0.79
3:A:236:MET:CE	3:A:240:ARG:CG	2.59	0.79
3:A:402:LEU:C	3:A:402:LEU:HD12	2.08	0.79
3:A:933:HIS:HA	3:A:936:LEU:HD12	1.65	0.79
4:B:61:SER:O	4:B:64:SER:N	2.15	0.79
4:B:149:ASP:HB3	4:B:155:ILE:N	1.98	0.79
4:B:639:VAL:O	4:B:641:LYS:HG2	1.82	0.79
4:B:870:VAL:HB	4:B:873:ARG:NH1	1.98	0.79
5:D:188:SER:O	5:D:189:ILE:CG1	2.31	0.79
6:E:275:LEU:HB3	6:E:313:LEU:HG	1.65	0.79
9:S:146:MET:CE	9:S:201:GLY:O	2.31	0.79
9:S:193:GLN:HE21	9:S:240:ALA:HA	1.48	0.79
9:S:196:PHE:CD2	9:S:197:LYS:N	2.50	0.79
9:T:144:ILE:CA	9:T:278:MET:SD	2.71	0.79
9:T:229:PHE:CE2	9:T:256:LEU:HD11	2.18	0.79
9:U:23:SER:HB2	9:U:29:GLN:HA	1.65	0.79
9:V:134:VAL:HG21	9:V:139:LEU:HD22	1.64	0.79
10:X:34:ILE:H	10:X:91:HIS:CE1	1.99	0.79
3:A:542:ILE:HG12	3:A:856:HIS:HB3	1.65	0.78
3:A:609:ARG:O	3:A:611:SER:N	2.16	0.78
3:A:740:ILE:HG12	3:A:741:PRO:HD3	1.62	0.78
4:B:146:LEU:HD11	4:B:154:ILE:CD1	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:359:LEU:HD23	4:B:393:GLY:O	1.82	0.78
4:B:404:VAL:HG12	4:B:405:THR:HB	1.63	0.78
4:B:520:GLY:N	4:B:865:ILE:HG13	1.98	0.78
4:B:564:ILE:CG2	4:B:570:GLN:CG	2.61	0.78
4:B:761:GLN:NE2	4:B:764:ARG:O	2.16	0.78
4:B:1065:PRO:HG2	4:B:1068:ASN:HB2	1.65	0.78
4:B:1088:SER:O	4:B:1089:ASN:C	2.26	0.78
4:B:1163:LEU:HD12	4:B:1166:GLU:HB2	1.64	0.78
5:C:119:GLU:OE2	5:C:121:ILE:HD13	1.82	0.78
5:C:182:GLU:CD	5:C:183:VAL:H	1.90	0.78
6:E:38:GLU:CD	6:E:39:VAL:H	1.92	0.78
6:E:426:HIS:NE2	7:F:56:LYS:NZ	2.31	0.78
8:G:329:LEU:HD12	8:G:330:SER:O	1.83	0.78
9:S:181:GLU:HG2	9:S:259:ARG:CD	2.12	0.78
9:T:126:LEU:CD1	9:T:131:ALA:CB	2.61	0.78
9:T:156:ASP:CG	9:T:285:LEU:CB	2.53	0.78
9:U:139:LEU:N	9:U:140:VAL:O	2.16	0.78
9:V:9:PHE:HA	9:V:12:ILE:HG22	0.79	0.78
9:V:84:LEU:HD12	9:V:85:ILE:CG1	2.11	0.78
10:Y:35:PHE:HB2	10:Y:91:HIS:CA	2.09	0.78
10:Y:140:LEU:HD12	10:Y:141:ALA:N	1.98	0.78
3:A:309:TYR:CE2	3:A:311:ILE:HD11	2.17	0.78
3:A:1002:THR:HG23	3:A:1004:GLN:N	1.96	0.78
4:B:162:ASN:CG	4:B:164:ARG:H	1.91	0.78
4:B:244:VAL:HG11	4:B:281:VAL:O	1.84	0.78
4:B:773:ARG:HB3	4:B:792:ARG:HB3	1.65	0.78
4:B:1037:LYS:HD3	4:B:1053:GLU:N	1.97	0.78
5:D:21:SER:HB3	5:D:23:PHE:CZ	2.18	0.78
6:E:510:SER:N	6:E:513:MET:CE	2.46	0.78
9:S:9:PHE:O	9:S:12:ILE:HB	1.82	0.78
9:T:156:ASP:C	9:T:282:GLN:HB3	2.07	0.78
9:U:146:MET:HE3	9:U:205:LEU:HB3	1.65	0.78
9:V:5:GLN:HB3	9:V:35:GLN:HB3	1.63	0.78
3:A:552:ARG:HD3	3:A:892:ARG:O	1.82	0.78
3:A:999:SER:OG	3:A:1003:GLN:N	2.16	0.78
4:B:680:ILE:CG2	8:G:101:ILE:HD13	2.12	0.78
5:D:57:ARG:HH22	5:D:155:ARG:HH22	1.28	0.78
5:D:75:VAL:HA	5:D:78:ILE:HB	1.65	0.78
5:D:137:GLU:OE2	5:D:139:GLU:CD	2.26	0.78
9:T:180:TYR:O	9:T:188:LEU:CD2	2.31	0.78
9:U:45:LEU:CD2	9:U:62:ARG:CZ	2.61	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:157:MET:CA	9:U:295:GLN:OE1	2.31	0.78
9:U:282:GLN:HA	9:U:285:LEU:HB2	1.66	0.78
9:V:146:MET:HG3	9:V:274:ARG:HD3	0.83	0.78
10:Y:45:TYR:CE2	10:Y:75:PHE:CD1	2.71	0.78
10:Y:158:ARG:HG3	10:Y:168:ILE:HD11	1.65	0.78
3:A:745:GLU:N	3:A:745:GLU:OE1	2.15	0.78
3:A:1021:GLU:HB2	6:E:441:ILE:HD12	1.65	0.78
3:A:1021:GLU:HB3	6:E:435:THR:HB	1.65	0.78
4:B:84:GLU:OE1	4:B:85:ILE:CG2	2.30	0.78
4:B:250:HIS:CG	4:B:254:LYS:HB3	2.19	0.78
4:B:281:VAL:HG12	4:B:282:VAL:N	1.96	0.78
4:B:1156:ASP:O	4:B:1158:GLY:N	2.16	0.78
7:F:60:ARG:O	7:F:61:ALA:C	2.26	0.78
9:S:188:LEU:HB3	9:S:193:GLN:HG3	1.66	0.78
9:T:12:ILE:HD13	9:T:36:ILE:HD11	1.65	0.78
9:T:185:TRP:CB	9:T:213:LEU:CD2	2.55	0.78
9:U:242:LEU:HD13	9:U:245:SER:HB3	1.64	0.78
9:V:126:LEU:HD12	9:V:127:GLY:H	1.49	0.78
10:X:101:LEU:HD23	10:X:102:SER:N	1.97	0.78
10:X:151:SER:OG	10:X:152:PHE:N	2.15	0.78
3:A:27:LEU:O	3:A:27:LEU:HG	1.83	0.78
3:A:229:PHE:HB2	3:A:233:GLU:HG3	1.64	0.78
3:A:724:ILE:O	3:A:836:VAL:HB	1.81	0.78
6:E:115:VAL:CG2	6:E:311:ASP:CB	2.62	0.78
6:E:412:ASP:HB2	6:E:413:PRO:HD2	1.66	0.78
7:F:25:ALA:HB3	7:F:31:ILE:HD11	1.64	0.78
8:G:80:ASP:O	8:G:84:LEU:HG	1.84	0.78
9:S:144:ILE:HG23	9:S:277:VAL:H	1.49	0.78
9:S:178:ALA:HA	9:S:259:ARG:CG	2.14	0.78
9:S:285:LEU:HD22	9:S:290:ILE:CG2	2.12	0.78
9:T:180:TYR:C	9:T:188:LEU:HD22	2.04	0.78
9:T:209:LYS:HE2	9:T:273:THR:O	1.84	0.78
9:T:296:LEU:CD2	9:T:296:LEU:O	2.30	0.78
9:U:142:LEU:CD2	9:U:294:TRP:CD1	2.65	0.78
9:V:205:LEU:O	9:V:209:LYS:CG	2.31	0.78
10:X:35:PHE:O	10:X:91:HIS:ND1	2.15	0.78
3:A:606:ILE:O	3:A:609:ARG:NH1	2.17	0.78
3:A:645:SER:CB	3:A:649:THR:CG2	2.61	0.78
3:A:929:ARG:O	3:A:932:VAL:N	2.17	0.78
5:D:180:VAL:CG1	5:D:194:LEU:HD12	2.13	0.78
6:E:31:PRO:C	6:E:33:GLY:H	1.89	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:302:PRO:CG	9:S:304:ILE:HG12	2.12	0.78
9:T:32:ILE:HD12	9:T:35:GLN:OE1	1.84	0.78
9:T:175:HIS:CE1	9:T:177:LEU:CA	2.67	0.78
9:V:48:PHE:O	9:V:49:HIS:ND1	2.16	0.78
9:V:181:GLU:O	9:V:184:PRO:CD	2.32	0.78
10:Y:45:TYR:HE2	10:Y:75:PHE:CD1	2.02	0.78
2:2:87:DT:H2"	2:2:88:DT:C7	2.13	0.78
3:A:96:TYR:O	3:A:97:VAL:HG23	1.84	0.78
3:A:163:ALA:N	3:A:175:PHE:O	2.16	0.78
4:B:35:LYS:O	4:B:39:LEU:HG	1.82	0.78
4:B:225:MET:HB3	4:B:232:LEU:HD22	1.65	0.78
4:B:1049:ILE:HG21	4:B:1064:GLY:N	1.99	0.78
5:C:3:GLN:N	5:C:5:GLN:HB3	1.98	0.78
5:D:185:ALA:O	5:D:191:LYS:CG	2.32	0.78
6:E:72:HIS:N	6:E:91:VAL:HG21	1.99	0.78
6:E:419:LEU:HD23	6:E:423:ILE:CG2	2.13	0.78
8:G:185:GLN:HE21	8:G:186:GLU:HG3	1.48	0.78
9:U:31:THR:HA	9:U:34:ARG:HE	1.49	0.78
10:Y:108:VAL:O	10:Y:111:ALA:N	2.17	0.78
4:B:25:GLY:HA3	4:B:28:ARG:CZ	2.14	0.78
4:B:295:CYS:O	4:B:298:CYS:N	2.16	0.78
4:B:481:TRP:CD1	4:B:971:PRO:CA	2.66	0.78
4:B:602:GLY:CA	4:B:633:PRO:HA	2.14	0.78
4:B:614:LYS:HZ1	4:B:622:GLU:HB2	1.48	0.78
4:B:638:GLU:HA	4:B:683:GLU:HB3	1.66	0.78
4:B:896:ARG:NH2	4:B:982:ILE:HD11	1.98	0.78
4:B:1205:ASP:CG	4:B:1213:PHE:CZ	2.61	0.78
5:C:40:LEU:HD12	5:C:40:LEU:N	1.99	0.78
5:C:73:GLU:OE2	5:C:129:THR:N	2.17	0.78
6:E:412:ASP:CG	6:E:414:SER:H	1.91	0.78
8:G:103:LEU:CD1	8:G:158:MET:SD	2.72	0.78
9:U:209:LYS:HA	9:U:212:ARG:HD3	1.66	0.78
10:Y:35:PHE:HA	10:Y:39:ASP:OD2	1.84	0.78
10:Y:179:ILE:HD11	10:Y:190:VAL:HA	0.79	0.78
3:A:127:THR:HG21	3:A:387:MET:HE1	1.62	0.78
3:A:822:ARG:NH2	3:A:833:ASN:HA	1.98	0.78
3:A:1003:GLN:HE22	3:A:1048:ARG:NH1	1.80	0.78
4:B:106:LYS:O	4:B:109:VAL:HG12	1.84	0.78
6:E:444:PHE:HA	6:E:492:LEU:HD11	1.65	0.78
6:E:623:LEU:HD12	6:E:624:ALA:H	1.48	0.78
8:G:190:GLY:O	8:G:193:ARG:CA	2.32	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:290:ILE:CG1	8:G:296:SER:HB2	2.07	0.78
9:S:28:THR:C	9:S:32:ILE:HG22	2.09	0.78
9:S:177:LEU:HD21	9:S:187:GLU:CG	2.14	0.78
9:T:64:LEU:O	9:T:67:ALA:N	2.17	0.78
9:V:188:LEU:HD11	9:V:189:VAL:CG1	2.11	0.78
10:X:34:ILE:N	10:X:91:HIS:HE1	1.81	0.78
10:X:108:VAL:O	10:X:111:ALA:N	2.17	0.78
10:Y:177:GLN:CG	10:Y:190:VAL:HG22	2.13	0.78
3:A:880:VAL:HG22	3:A:881:ASP:N	1.96	0.78
3:A:906:ALA:O	3:A:909:THR:N	2.17	0.78
3:A:940:ARG:NE	3:A:949:TYR:CB	2.46	0.78
4:B:543:SER:HB3	4:B:759:SER:HB2	1.66	0.78
4:B:883:ILE:O	4:B:899:VAL:HA	1.83	0.78
4:B:1216:THR:O	4:B:1219:VAL:CG1	2.32	0.78
5:D:74:ASP:OD1	5:D:75:VAL:N	2.18	0.78
5:D:178:TYR:CD1	5:D:196:LEU:HD22	2.18	0.78
6:E:80:ARG:HH21	8:G:348:MET:H	1.27	0.78
6:E:390:ASN:O	6:E:394:ARG:CB	2.32	0.78
8:G:249:LEU:HD23	8:G:265:ARG:HG2	1.64	0.78
9:S:8:ALA:O	9:S:12:ILE:HG13	1.84	0.78
9:V:146:MET:HE2	9:V:274:ARG:NH2	1.99	0.78
9:V:167:ILE:HA	9:V:243:PRO:CA	2.11	0.78
10:X:35:PHE:HA	10:X:39:ASP:OD2	1.83	0.78
3:A:675:THR:OG1	3:A:679:GLU:OE2	2.02	0.77
3:A:1004:GLN:CD	3:A:1042:SER:HG	1.91	0.77
4:B:89:GLU:HA	4:B:369:ARG:O	1.84	0.77
4:B:209:ILE:C	4:B:210:ARG:HD2	2.08	0.77
5:C:21:SER:HB3	5:C:23:PHE:CZ	2.18	0.77
6:E:40:THR:H	6:E:55:ASP:CG	1.92	0.77
6:E:407:LEU:HD11	6:E:415:VAL:CG2	2.11	0.77
9:V:164:ASP:O	9:V:165:GLU:OE2	2.02	0.77
9:V:206:VAL:HA	9:V:209:LYS:HD3	1.65	0.77
3:A:288:THR:HG23	3:A:290:ARG:HH22	1.48	0.77
3:A:532:VAL:HG12	3:A:535:VAL:CG1	2.13	0.77
3:A:855:ARG:CZ	3:A:978:TYR:CD2	2.67	0.77
4:B:37:LYS:HD2	6:E:509:PRO:HB3	1.62	0.77
4:B:233:ILE:HG21	4:B:238:ARG:HD3	1.64	0.77
4:B:497:VAL:HB	4:B:510:LEU:C	2.08	0.77
4:B:513:THR:HG23	4:B:513:THR:O	1.83	0.77
6:E:106:ILE:CD1	6:E:279:VAL:CG1	2.61	0.77
6:E:316:ASN:ND2	6:E:323:VAL:HG22	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:457:HIS:CD2	6:E:458:PRO:HD2	2.18	0.77
8:G:115:ARG:HB3	8:G:119:ARG:NH1	2.00	0.77
8:G:371:LYS:O	8:G:375:LYS:HG3	1.84	0.77
9:S:132:LEU:HA	9:S:150:PHE:HB3	1.64	0.77
9:T:3:LEU:CD2	9:T:70:ILE:HD11	2.13	0.77
9:T:155:ARG:O	9:T:294:TRP:HD1	1.68	0.77
9:T:196:PHE:N	9:T:203:GLN:HB2	1.98	0.77
9:T:206:VAL:HG13	9:T:241:LEU:HG	1.66	0.77
9:U:92:LEU:HB3	9:U:290:ILE:CD1	2.09	0.77
9:V:3:LEU:HD22	9:V:74:TRP:HZ2	1.47	0.77
10:X:49:LYS:HB3	10:X:99:GLU:HB2	1.65	0.77
3:A:272:VAL:O	3:A:275:TYR:N	2.16	0.77
3:A:294:SER:HA	3:A:297:ILE:HD12	1.64	0.77
3:A:568:LYS:HZ1	3:A:713:ILE:CG1	1.97	0.77
3:A:602:ASP:OD1	5:C:131:ALA:HB2	1.84	0.77
3:A:736:ILE:HD11	3:A:754:GLN:HB3	1.66	0.77
3:A:873:TYR:HB2	3:A:878:SER:O	1.83	0.77
4:B:359:LEU:CD2	4:B:384:ILE:HB	2.15	0.77
4:B:1097:PHE:O	4:B:1100:LEU:N	2.17	0.77
4:B:1174:GLU:N	4:B:1174:GLU:OE1	2.16	0.77
5:D:217:LEU:O	5:D:221:PHE:N	2.17	0.77
6:E:80:ARG:CZ	8:G:345:ASP:HB3	2.12	0.77
6:E:247:THR:OG1	6:E:248:VAL:N	2.09	0.77
6:E:429:MET:HG3	6:E:476:HIS:HB3	1.65	0.77
9:S:155:ARG:HD2	9:S:282:GLN:HE21	1.47	0.77
9:U:64:LEU:O	9:U:67:ALA:N	2.17	0.77
9:U:92:LEU:CD2	9:U:287:ILE:HD12	2.13	0.77
3:A:43:GLU:OE1	3:A:43:GLU:N	2.14	0.77
3:A:512:TYR:HB3	3:A:515:GLU:HG3	1.67	0.77
4:B:49:VAL:O	4:B:50:SER:OG	2.02	0.77
4:B:185:ASP:O	4:B:188:LEU:N	2.17	0.77
4:B:267:ASP:OD1	4:B:267:ASP:N	2.14	0.77
4:B:374:GLU:HA	4:B:416:GLN:HE22	1.48	0.77
5:C:32:GLN:HE22	5:D:43:VAL:CG2	1.94	0.77
6:E:71:CYS:H	6:E:76:TYR:HB2	1.48	0.77
7:F:31:ILE:O	7:F:32:THR:C	2.27	0.77
8:G:94:LEU:CD2	8:G:96:ARG:O	2.33	0.77
8:G:111:LEU:O	8:G:115:ARG:HG3	1.83	0.77
8:G:321:ASP:HA	8:G:324:LYS:HB2	1.64	0.77
9:S:55:LYS:HG3	9:S:57:THR:H	1.47	0.77
9:S:69:LYS:O	9:S:72:LEU:HG	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:201:GLY:O	9:T:205:LEU:HD23	1.84	0.77
9:U:155:ARG:O	9:U:156:ASP:C	2.28	0.77
9:V:77:ALA:HB1	9:V:81:LEU:HD22	1.64	0.77
9:V:94:ILE:CG2	9:V:144:ILE:HG23	2.14	0.77
3:A:701:ALA:HB1	6:E:364:VAL:HG11	1.67	0.77
3:A:708:LEU:HD11	3:A:714:TYR:CG	2.18	0.77
3:A:898:VAL:O	3:A:901:CYS:N	2.18	0.77
4:B:90:ARG:O	4:B:93:LYS:N	2.18	0.77
5:C:84:GLU:N	5:C:84:GLU:OE2	2.18	0.77
6:E:78:ARG:CG	8:G:346:GLY:C	2.57	0.77
8:G:239:ILE:HG22	8:G:276:ILE:HG23	1.64	0.77
8:G:329:LEU:HD12	8:G:334:ARG:HB2	1.62	0.77
9:S:285:LEU:HD13	9:S:291:LYS:HA	1.65	0.77
9:T:177:LEU:HA	9:T:180:TYR:CD2	2.19	0.77
3:A:238:LEU:HD21	3:A:257:LEU:HD13	1.65	0.77
3:A:240:ARG:HD3	3:A:240:ARG:C	2.10	0.77
3:A:423:HIS:O	3:A:425:SER:OG	2.01	0.77
3:A:620:LYS:HG3	3:A:623:ASP:HB3	1.67	0.77
3:A:641:LYS:HG2	3:A:643:GLN:OE1	1.84	0.77
3:A:896:GLY:C	3:A:899:PHE:H	1.89	0.77
4:B:299:TYR:CA	4:B:1139:LYS:CE	2.63	0.77
4:B:540:ILE:HG23	4:B:833:VAL:HG12	1.64	0.77
4:B:1156:ASP:OD2	4:B:1189:GLN:N	2.16	0.77
5:D:175:LYS:HD2	5:D:199:TRP:CZ3	2.19	0.77
6:E:364:VAL:HG22	6:E:366:PRO:HD3	1.64	0.77
6:E:392:LEU:HD12	6:E:407:LEU:HD21	1.65	0.77
9:S:4:GLU:O	9:S:8:ALA:CB	2.33	0.77
9:S:79:GLN:O	9:S:80:GLU:CG	2.30	0.77
9:T:170:LEU:CG	9:T:233:VAL:CG2	2.63	0.77
9:V:69:LYS:O	9:V:72:LEU:HG	1.84	0.77
3:A:875:PRO:CG	3:A:960:TYR:CZ	2.66	0.77
3:A:1017:PHE:HZ	3:A:1022:VAL:HG13	1.49	0.77
4:B:21:PHE:CE1	6:E:497:ILE:HD13	2.19	0.77
4:B:359:LEU:HD21	4:B:384:ILE:CA	2.15	0.77
4:B:416:GLN:H	4:B:422:GLN:HG2	1.49	0.77
4:B:520:GLY:CA	4:B:865:ILE:HG13	2.14	0.77
4:B:541:THR:N	4:B:833:VAL:HG13	2.00	0.77
4:B:764:ARG:HA	4:B:807:HIS:NE2	1.99	0.77
4:B:1207:PHE:HA	4:B:1220:LEU:HA	1.64	0.77
5:D:217:LEU:O	5:D:220:LEU:N	2.18	0.77
6:E:49:THR:HB	6:E:51:LYS:HZ3	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:147:VAL:N	6:E:160:GLN:O	2.18	0.77
6:E:197:LEU:CD1	6:E:245:VAL:HG21	2.15	0.77
9:U:66:ARG:NH1	9:U:70:ILE:HG21	1.99	0.77
9:U:176:PRO:CG	9:U:239:ILE:CD1	2.63	0.77
10:X:121:LEU:HD23	10:X:124:ARG:HD2	1.67	0.77
10:X:130:ILE:HG21	10:Y:130:ILE:CG2	2.15	0.77
3:A:523:GLN:N	3:A:523:GLN:OE1	2.18	0.77
3:A:687:VAL:HG22	3:A:880:VAL:HG23	1.66	0.77
4:B:922:ILE:CG2	4:B:928:LEU:CD1	2.62	0.77
5:D:73:GLU:OE2	5:D:129:THR:N	2.17	0.77
6:E:371:HIS:CD2	6:E:494:SER:CA	2.67	0.77
8:G:196:GLU:HG2	8:G:197:LYS:H	1.49	0.77
8:G:352:GLU:O	8:G:355:GLY:N	2.17	0.77
9:U:150:PHE:O	9:U:151:LEU:HG	1.85	0.77
10:Y:104:PRO:C	10:Y:106:GLU:H	1.91	0.77
3:A:727:ARG:HH21	8:G:278:LYS:HZ1	1.30	0.77
4:B:10:LYS:NZ	4:B:14:ARG:NH2	2.31	0.77
4:B:614:LYS:O	4:B:616:LYS:N	2.18	0.77
4:B:831:GLN:CB	4:B:833:VAL:CG2	2.56	0.77
4:B:880:GLU:HG3	4:B:901:ARG:CG	2.15	0.77
5:C:217:LEU:O	5:C:220:LEU:N	2.18	0.77
6:E:329:ARG:HH12	6:E:332:LYS:HB2	1.49	0.77
6:E:608:THR:CG2	6:E:612:ARG:HD2	2.14	0.77
9:S:32:ILE:CD1	9:S:36:ILE:HD12	2.13	0.77
9:S:168:GLU:CG	9:S:247:LEU:HD23	2.15	0.77
9:T:298:ARG:HA	9:T:302:PRO:HG2	1.66	0.77
9:U:278:MET:HE3	9:U:293:PHE:O	1.83	0.77
9:V:58:LEU:HD23	9:V:61:GLU:HB2	1.67	0.77
9:V:93:CYS:O	9:V:94:ILE:HD13	1.85	0.77
9:V:162:LEU:HD22	9:V:278:MET:CE	2.11	0.77
9:V:261:LEU:HA	9:V:264:SER:HB2	1.65	0.77
3:A:39:ARG:O	3:A:40:TRP:C	2.27	0.77
3:A:68:LEU:CD1	3:A:70:HIS:CD2	2.68	0.77
3:A:866:LEU:HD12	3:A:867:PRO:HD2	1.66	0.77
3:A:905:TRP:CD1	3:A:909:THR:HG23	2.20	0.77
3:A:985:LEU:HG	3:A:987:ASP:H	1.50	0.77
4:B:47:ALA:HB2	6:E:519:TYR:CD2	2.20	0.77
4:B:194:GLY:C	4:B:198:ARG:HD2	2.10	0.77
6:E:115:VAL:CG2	6:E:311:ASP:HB2	2.14	0.77
8:G:342:GLY:HA3	8:G:347:ARG:C	2.10	0.77
9:S:213:LEU:CD1	9:S:264:SER:OG	2.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:97:ILE:HG12	9:T:163:TYR:HE1	1.48	0.77
9:T:126:LEU:O	9:T:196:PHE:HZ	1.68	0.77
9:T:209:LYS:HZ2	9:T:274:ARG:CB	1.79	0.77
9:U:62:ARG:CD	9:V:87:GLY:O	2.33	0.77
9:U:100:LEU:CD1	9:U:276:VAL:HG21	2.14	0.77
9:U:296:LEU:HG	9:U:301:ILE:H	1.50	0.77
3:A:83:GLU:HA	3:A:86:ARG:CG	2.15	0.76
3:A:608:VAL:HG23	3:A:616:THR:HA	1.65	0.76
4:B:140:LEU:O	4:B:162:ASN:HB2	1.84	0.76
4:B:195:TYR:HD1	4:B:198:ARG:HH11	1.29	0.76
4:B:408:SER:HB2	4:B:410:ILE:CG2	2.15	0.76
5:C:38:ASN:O	5:C:41:ARG:N	2.19	0.76
9:S:81:LEU:HA	9:T:44:GLY:CA	2.14	0.76
9:S:213:LEU:HD13	9:S:264:SER:HB2	1.64	0.76
9:T:146:MET:HE2	9:T:205:LEU:HD23	1.65	0.76
9:T:209:LYS:CE	9:T:212:ARG:NE	2.48	0.76
9:V:284:ARG:O	9:V:290:ILE:HG12	1.85	0.76
3:A:26:LEU:H	3:A:26:LEU:HD23	1.49	0.76
3:A:50:LEU:HD12	3:A:51:ASN:N	1.99	0.76
3:A:1098:LEU:CD2	3:A:1100:VAL:HG22	2.14	0.76
4:B:782:VAL:C	4:B:783:LYS:HD2	2.11	0.76
4:B:1153:ARG:HB2	4:B:1167:LEU:CD2	2.13	0.76
5:C:42:ARG:NE	5:D:35:THR:CG2	2.48	0.76
8:G:350:THR:OG1	8:G:351:LEU:N	2.08	0.76
9:S:232:VAL:HB	9:S:238:LEU:HD22	1.67	0.76
9:T:162:LEU:H	9:T:276:VAL:HG23	1.48	0.76
9:T:201:GLY:O	9:T:205:LEU:CB	2.32	0.76
9:U:138:GLY:HA2	9:U:140:VAL:O	1.84	0.76
9:U:199:GLY:N	9:U:207:GLN:HE22	1.84	0.76
9:V:188:LEU:HD22	9:V:213:LEU:HD11	1.66	0.76
9:V:205:LEU:HD11	9:V:272:LEU:CG	2.14	0.76
10:X:54:LEU:HB3	10:X:67:ALA:HB3	1.68	0.76
10:Y:32:LYS:HG2	10:Y:33:THR:N	2.00	0.76
3:A:48:GLU:CD	3:A:48:GLU:H	1.92	0.76
3:A:486:ASP:OD1	3:A:488:LEU:N	2.13	0.76
3:A:597:ASP:O	3:A:615:PRO:HD3	1.85	0.76
3:A:821:THR:HG22	3:A:834:MET:HB2	1.65	0.76
4:B:60:PRO:HD3	4:B:112:HIS:CE1	2.20	0.76
4:B:144:ARG:CB	4:B:159:ILE:HG21	2.15	0.76
4:B:149:ASP:H	4:B:154:ILE:HA	1.51	0.76
4:B:813:ALA:HA	4:B:834:ILE:HD11	0.76	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:72:ARG:HG3	5:C:73:GLU:OE1	1.83	0.76
5:C:189:ILE:HG23	5:C:190:PRO:HD2	1.65	0.76
5:C:219:ASP:OD1	5:C:220:LEU:N	2.18	0.76
6:E:300:ARG:HA	6:E:303:LYS:HG2	1.67	0.76
8:G:206:PHE:HB2	8:G:210:ALA:N	1.99	0.76
8:G:363:GLU:N	8:G:363:GLU:OE1	2.18	0.76
9:S:164:ASP:CB	9:S:273:THR:OG1	2.34	0.76
9:T:197:LYS:C	9:T:200:TYR:H	1.93	0.76
9:U:199:GLY:HA2	9:U:207:GLN:HE22	1.45	0.76
3:A:175:PHE:CE1	3:A:185:VAL:HG12	2.20	0.76
3:A:235:LEU:CD2	3:A:250:VAL:HG12	2.15	0.76
3:A:470:ARG:NH1	3:A:500:ASN:O	2.19	0.76
3:A:905:TRP:HE1	3:A:909:THR:HG21	1.48	0.76
3:A:1048:ARG:HG3	3:A:1049:ASN:OD1	1.86	0.76
4:B:225:MET:CB	4:B:238:ARG:HH12	1.87	0.76
4:B:359:LEU:HD11	4:B:385:MET:N	1.99	0.76
4:B:479:LEU:HD22	4:B:971:PRO:HB2	1.65	0.76
4:B:812:LEU:O	4:B:814:ALA:N	2.18	0.76
4:B:847:ASP:HB2	4:B:850:GLN:HB3	1.66	0.76
4:B:1028:ILE:HD11	4:B:1082:PRO:HB3	1.67	0.76
4:B:1129:TYR:CD1	4:B:1136:ILE:HG21	2.20	0.76
4:B:1154:ILE:HA	4:B:1190:TYR:HB3	1.68	0.76
5:C:5:GLN:HE22	5:C:27:PRO:HD2	1.50	0.76
5:C:41:ARG:HH12	5:C:177:ASN:N	1.83	0.76
5:C:56:VAL:H	5:C:57:ARG:HH22	1.33	0.76
5:C:57:ARG:HB3	5:C:162:ASP:CG	2.09	0.76
5:D:219:ASP:OD1	5:D:220:LEU:N	2.18	0.76
6:E:574:VAL:H	6:E:586:VAL:HG13	1.50	0.76
9:T:66:ARG:NH1	9:T:70:ILE:HG21	1.99	0.76
9:T:156:ASP:HA	9:T:291:LYS:HA	1.64	0.76
9:U:18:PHE:HD1	9:U:36:ILE:CD1	1.98	0.76
9:U:204:ARG:O	9:U:207:GLN:HG2	1.85	0.76
9:V:12:ILE:HD11	9:V:17:SER:O	1.85	0.76
10:Y:179:ILE:CD1	10:Y:190:VAL:N	2.47	0.76
1:1:15:DA:H2	2:2:112:DG:N2	1.81	0.76
2:2:64:DA:C5	2:2:65:DA:N6	2.52	0.76
3:A:411:THR:OG1	3:A:414:ARG:N	2.18	0.76
3:A:676:GLU:HG2	3:A:677:GLY:N	1.99	0.76
3:A:754:GLN:N	3:A:754:GLN:OE1	2.18	0.76
3:A:897:GLN:HA	3:A:900:GLU:OE2	1.84	0.76
4:B:250:HIS:ND1	4:B:250:HIS:O	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:378:PHE:CD1	4:B:378:PHE:O	2.37	0.76
4:B:515:LEU:N	4:B:873:ARG:HG2	2.01	0.76
4:B:703:ARG:HH22	4:B:714:LEU:HA	1.49	0.76
4:B:1249:THR:HB	7:F:33:VAL:HG11	1.65	0.76
5:C:123:PRO:O	5:C:124:THR:OG1	2.03	0.76
6:E:30:LEU:O	6:E:33:GLY:N	2.19	0.76
9:S:278:MET:CA	9:S:294:TRP:CZ2	2.68	0.76
9:T:194:VAL:HG13	9:T:203:GLN:HE22	1.49	0.76
9:U:70:ILE:HD12	9:V:70:ILE:HG23	1.67	0.76
9:U:177:LEU:CD2	9:U:261:LEU:HD21	2.16	0.76
9:U:242:LEU:HD21	9:U:246:ALA:CB	2.11	0.76
9:V:89:GLN:O	9:V:287:ILE:HB	1.85	0.76
10:Y:45:TYR:O	10:Y:75:PHE:HB2	1.86	0.76
3:A:27:LEU:HD23	3:A:27:LEU:N	2.01	0.76
3:A:719:ILE:HA	3:A:840:VAL:O	1.86	0.76
3:A:861:ILE:HD11	6:E:468:PHE:C	2.10	0.76
3:A:1068:GLU:O	3:A:1071:LYS:N	2.18	0.76
3:A:1100:VAL:CG2	6:E:101:HIS:CE1	2.68	0.76
4:B:96:ASP:HB3	4:B:422:GLN:HB3	1.66	0.76
4:B:858:GLU:HB3	4:B:870:VAL:HG23	1.65	0.76
5:C:52:ALA:HB1	5:C:168:SER:OG	1.85	0.76
5:D:173:VAL:HA	5:D:200:THR:HA	1.68	0.76
8:G:308:THR:O	8:G:309:PRO:C	2.28	0.76
9:S:132:LEU:HD21	9:U:24:LYS:HD2	1.66	0.76
9:T:126:LEU:O	9:T:196:PHE:CZ	2.38	0.76
9:U:166:PRO:HG2	9:U:244:SER:CB	2.15	0.76
9:U:206:VAL:HG21	9:U:274:ARG:CD	2.15	0.76
9:V:107:PRO:HB2	9:V:303:PRO:HG3	1.68	0.76
9:V:108:VAL:HG21	9:V:301:ILE:CD1	2.02	0.76
9:V:160:GLU:OE1	9:V:297:VAL:CG1	2.34	0.76
10:X:52:VAL:HG22	10:X:53:LYS:H	1.51	0.76
3:A:184:TRP:HE3	3:A:195:ALA:N	1.83	0.76
3:A:913:ARG:NH2	3:A:915:LYS:HE2	1.99	0.76
3:A:993:ARG:NE	3:A:1012:GLN:C	2.29	0.76
3:A:998:TYR:OH	3:A:1048:ARG:HD3	1.86	0.76
4:B:8:VAL:HG13	6:E:521:THR:HG21	1.66	0.76
4:B:34:ASP:OD1	6:E:370:ILE:HD11	1.86	0.76
4:B:540:ILE:HD13	4:B:835:LEU:CD1	2.15	0.76
4:B:566:THR:OG1	4:B:570:GLN:CB	2.33	0.76
4:B:654:VAL:HB	4:B:659:GLU:HG3	1.67	0.76
5:D:217:LEU:HG	5:D:218:VAL:N	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:105:TYR:HD1	6:E:250:PRO:C	1.92	0.76
8:G:141:LEU:CA	8:G:144:PHE:HE2	1.94	0.76
8:G:141:LEU:HG	8:G:144:PHE:HZ	1.50	0.76
8:G:272:LYS:O	8:G:275:PHE:HB3	1.86	0.76
8:G:337:LEU:HD13	8:G:369:GLU:HA	1.66	0.76
9:T:206:VAL:CG1	9:T:241:LEU:CD1	2.63	0.76
9:V:167:ILE:O	9:V:262:ALA:N	2.18	0.76
9:V:175:HIS:HD2	9:V:176:PRO:HD2	1.49	0.76
10:X:118:LEU:HG	10:X:121:LEU:CD1	2.15	0.76
10:Y:48:LEU:H	10:Y:100:LEU:HA	1.51	0.76
10:Y:118:LEU:HA	10:Y:121:LEU:HB2	1.66	0.76
10:Y:157:CYS:HB2	10:Y:169:THR:O	1.84	0.76
2:2:104:DC:H1'	2:2:105:DG:H5'	1.66	0.76
3:A:1035:GLN:OE1	4:B:1244:LEU:HA	1.86	0.76
4:B:33:ALA:C	4:B:37:LYS:HG3	1.89	0.76
4:B:84:GLU:HA	4:B:479:LEU:HD21	1.66	0.76
4:B:232:LEU:CD2	4:B:233:ILE:HD13	2.15	0.76
4:B:611:VAL:HG12	4:B:612:GLN:O	1.86	0.76
4:B:650:ASP:HB3	4:B:674:VAL:HG21	1.67	0.76
4:B:853:THR:HA	4:B:875:GLN:O	1.84	0.76
5:C:57:ARG:HD3	5:C:162:ASP:CG	2.10	0.76
5:C:92:SER:OG	5:C:93:GLN:NE2	2.18	0.76
6:E:305:MET:HE3	8:G:181:GLN:NE2	1.99	0.76
6:E:441:ILE:HG22	6:E:441:ILE:O	1.82	0.76
9:S:64:LEU:CB	9:S:68:ARG:HD3	2.16	0.76
9:S:155:ARG:HH22	9:S:158:VAL:HG11	1.34	0.76
9:T:205:LEU:HD11	9:T:206:VAL:CG2	2.06	0.76
9:V:159:VAL:C	9:V:278:MET:HG2	2.11	0.76
10:X:116:PRO:HD3	10:Y:116:PRO:HD3	1.66	0.76
3:A:704:ILE:CD1	3:A:882:ILE:HG13	2.16	0.76
3:A:867:PRO:O	3:A:869:GLU:N	2.19	0.76
3:A:966:GLU:N	3:A:966:GLU:CD	2.43	0.76
3:A:1052:LEU:CB	8:G:313:VAL:HG11	2.16	0.76
4:B:212:ILE:HG22	4:B:296:GLN:CG	2.14	0.76
4:B:1135:ASP:OD1	4:B:1136:ILE:N	2.18	0.76
5:C:56:VAL:O	5:C:57:ARG:NH2	2.19	0.76
5:C:99:LEU:C	5:C:100:LEU:HD12	2.11	0.76
5:D:84:GLU:N	5:D:84:GLU:OE2	2.18	0.76
6:E:252:ILE:HG21	6:E:256:LEU:HD11	1.68	0.76
6:E:444:PHE:HE1	6:E:493:ALA:HA	1.50	0.76
6:E:485:ALA:CA	6:E:488:ARG:HE	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:115:ARG:HA	8:G:118:GLU:OE2	1.85	0.76
8:G:290:ILE:HG23	8:G:296:SER:CA	2.15	0.76
9:S:162:LEU:O	9:S:163:TYR:CD2	2.39	0.76
9:T:47:LEU:HD12	9:T:49:HIS:HB2	1.68	0.76
9:T:144:ILE:CG2	9:T:162:LEU:HD13	2.16	0.76
9:V:146:MET:HE2	9:V:274:ARG:NH1	1.99	0.76
9:V:183:VAL:N	9:V:184:PRO:HD3	2.01	0.76
1:1:94:DT:P	8:G:232:PRO:CB	2.74	0.76
3:A:144:SER:HB3	3:A:324:ARG:HB3	1.67	0.76
3:A:161:TYR:O	3:A:177:THR:OG1	2.01	0.76
3:A:293:THR:OG1	3:A:294:SER:N	2.13	0.76
3:A:594:THR:O	3:A:665:ALA:HA	1.86	0.76
3:A:658:ARG:HG2	5:C:72:ARG:HH21	1.50	0.76
3:A:689:ALA:HB2	3:A:974:ILE:CG2	2.16	0.76
3:A:700:ASP:OD1	3:A:701:ALA:HB2	1.86	0.76
4:B:283:ARG:HE	4:B:298:CYS:HA	1.50	0.76
4:B:510:LEU:HD22	4:B:877:LEU:CA	2.16	0.76
4:B:596:TYR:HD2	4:B:791:LEU:HD22	1.51	0.76
4:B:904:ASP:OD1	4:B:967:ARG:CG	2.34	0.76
8:G:119:ARG:O	8:G:122:GLU:HG2	1.86	0.76
9:T:180:TYR:HB3	9:T:188:LEU:HD22	0.76	0.76
9:T:192:PRO:HB2	9:T:238:LEU:HD23	1.66	0.76
9:V:12:ILE:HA	9:V:15:THR:HG23	1.68	0.76
9:V:169:LEU:HB3	9:V:183:VAL:HG11	1.66	0.76
10:X:202:MET:SD	10:X:212:VAL:HA	2.25	0.76
3:A:429:ARG:HG2	3:A:459:LEU:HD11	1.68	0.75
3:A:491:ALA:O	3:A:527:VAL:HA	1.85	0.75
4:B:21:PHE:CZ	6:E:497:ILE:CD1	2.69	0.75
4:B:33:ALA:CA	4:B:37:LYS:HG2	2.16	0.75
4:B:267:ASP:CG	4:B:268:LEU:H	1.94	0.75
4:B:880:GLU:HG3	4:B:901:ARG:HG3	1.67	0.75
4:B:1207:PHE:HD1	4:B:1230:ASP:CG	1.93	0.75
5:C:217:LEU:HG	5:C:218:VAL:N	2.01	0.75
6:E:86:CYS:SG	6:E:89:CYS:N	2.59	0.75
8:G:218:ILE:O	8:G:221:ALA:N	2.19	0.75
9:T:31:THR:HG22	9:T:32:ILE:HD13	1.68	0.75
9:T:105:LEU:CD1	9:T:300:ASN:CG	2.52	0.75
9:T:170:LEU:CG	9:T:233:VAL:HG22	2.16	0.75
9:U:76:THR:HA	9:U:79:GLN:HB3	1.69	0.75
9:V:284:ARG:HE	9:V:290:ILE:HD13	1.51	0.75
10:Y:54:LEU:HB3	10:Y:67:ALA:HB3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:62:DA:H62	10:Y:187:ARG:HE	1.30	0.75
2:2:64:DA:N3	2:2:65:DA:N1	2.35	0.75
3:A:49:GLU:H	3:A:49:GLU:CD	1.85	0.75
3:A:431:CYS:SG	3:A:535:VAL:HA	2.26	0.75
3:A:650:CYS:SG	3:A:717:ILE:CG1	2.73	0.75
3:A:718:HIS:O	3:A:841:ALA:CA	2.33	0.75
3:A:787:LEU:HD11	8:G:343:LEU:HD22	1.67	0.75
3:A:823:GLU:C	3:A:825:GLY:H	1.92	0.75
3:A:858:ASN:O	3:A:859:LYS:CG	2.27	0.75
4:B:60:PRO:HD3	4:B:112:HIS:HE1	1.51	0.75
4:B:233:ILE:HG21	4:B:238:ARG:HD2	1.68	0.75
4:B:250:HIS:HB3	4:B:254:LYS:HZ2	1.50	0.75
4:B:631:TRP:HD1	4:B:742:VAL:HG11	1.51	0.75
5:C:189:ILE:HG23	5:C:190:PRO:CD	2.15	0.75
5:D:48:LEU:HD12	5:D:50:GLY:H	1.50	0.75
6:E:415:VAL:HG12	6:E:416:TRP:HD1	1.51	0.75
8:G:173:TYR:O	8:G:183:LEU:HD11	1.85	0.75
8:G:192:ILE:O	8:G:196:GLU:OE1	2.04	0.75
9:T:205:LEU:CD1	9:T:206:VAL:H	1.98	0.75
9:T:293:PHE:CE1	9:T:297:VAL:CG2	2.68	0.75
9:U:206:VAL:HG22	9:U:210:PHE:CE1	2.21	0.75
9:V:287:ILE:CG2	9:V:288:PRO:HD2	2.01	0.75
10:Y:52:VAL:HG22	10:Y:53:LYS:H	1.51	0.75
10:Y:54:LEU:HD12	10:Y:92:ALA:HB2	1.68	0.75
3:A:176:GLU:OE2	3:A:184:TRP:N	2.19	0.75
3:A:271:ARG:HG3	3:A:272:VAL:H	1.51	0.75
3:A:727:ARG:O	3:A:833:ASN:ND2	2.19	0.75
3:A:970:ARG:NH2	4:B:49:VAL:CB	2.26	0.75
3:A:970:ARG:HH22	4:B:49:VAL:HB	1.50	0.75
3:A:993:ARG:CD	3:A:1012:GLN:HG2	2.14	0.75
4:B:95:ILE:HD11	4:B:154:ILE:HG21	1.68	0.75
4:B:439:GLU:N	4:B:1001:ARG:H	1.84	0.75
5:C:50:GLY:C	5:C:144:ARG:HA	2.12	0.75
5:D:92:SER:OG	5:D:93:GLN:NE2	2.18	0.75
6:E:161:LEU:O	6:E:162:LEU:CG	2.34	0.75
6:E:224:LEU:O	6:E:225:ILE:C	2.29	0.75
9:S:185:TRP:H	9:S:213:LEU:HB2	1.52	0.75
9:S:268:GLU:HA	9:S:272:LEU:HB3	1.68	0.75
9:T:2:ARG:CZ	9:T:39:LEU:HD13	2.17	0.75
9:U:176:PRO:HG2	9:U:239:ILE:HD11	1.67	0.75
9:V:203:GLN:NE2	9:V:207:GLN:H	1.81	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:69:LEU:HD13	10:Y:73:SER:HB2	1.67	0.75
10:Y:139:THR:HA	10:Y:142:HIS:NE2	2.00	0.75
10:Y:179:ILE:HD13	10:Y:189:THR:O	1.86	0.75
10:Y:215:PRO:O	10:Y:218:LEU:HG	1.86	0.75
3:A:131:ASN:OD1	3:A:132:GLY:N	2.20	0.75
4:B:25:GLY:H	4:B:28:ARG:NH2	1.83	0.75
4:B:59:PRO:HB2	4:B:108:GLU:CD	2.10	0.75
4:B:520:GLY:HA3	4:B:865:ILE:HG13	1.68	0.75
4:B:607:ALA:HB3	4:B:628:THR:HB	1.68	0.75
4:B:863:ASP:O	4:B:865:ILE:N	2.19	0.75
4:B:1202:LEU:HD23	4:B:1215:GLU:OE2	1.86	0.75
6:E:154:GLU:OE2	6:E:181:LEU:N	2.19	0.75
6:E:237:THR:OG1	6:E:238:GLY:O	2.04	0.75
9:S:126:LEU:HD11	9:S:145:VAL:HG21	0.77	0.75
9:T:288:PRO:CA	9:T:291:LYS:CE	2.65	0.75
9:V:195:VAL:CB	9:V:203:GLN:CD	2.48	0.75
9:V:265:ALA:N	9:V:269:ASN:O	2.19	0.75
10:X:176:HIS:CD2	10:X:208:LYS:HE3	2.22	0.75
3:A:156:ASN:OD1	3:A:157:GLY:N	2.17	0.75
3:A:215:HIS:CG	3:A:219:PHE:CE2	2.73	0.75
3:A:787:LEU:O	3:A:788:LEU:C	2.28	0.75
3:A:1072:VAL:HA	3:A:1075:ARG:HD2	1.67	0.75
3:A:1089:VAL:HA	3:A:1094:ASP:HA	1.67	0.75
4:B:5:ASN:OD1	4:B:5:ASN:C	2.25	0.75
4:B:9:ASP:CG	4:B:12:GLN:HG3	2.11	0.75
4:B:96:ASP:CB	4:B:422:GLN:HB3	2.17	0.75
4:B:245:GLY:HA2	4:B:260:ARG:HD2	1.68	0.75
6:E:457:HIS:CE1	6:E:459:LEU:HB2	2.21	0.75
6:E:484:GLN:O	6:E:488:ARG:N	2.19	0.75
6:E:520:LEU:CG	6:E:552:LEU:HD21	2.05	0.75
9:T:157:MET:CB	9:T:294:TRP:CH2	2.69	0.75
9:V:131:ALA:O	9:V:135:LEU:HG	1.87	0.75
10:Y:167:GLY:CA	10:Y:213:HIS:HA	2.15	0.75
3:A:99:THR:OG1	3:A:100:ARG:N	2.16	0.75
3:A:135:ARG:HB3	3:A:384:SER:OG	1.86	0.75
3:A:258:ASP:OD1	3:A:259:SER:N	2.19	0.75
3:A:855:ARG:CZ	3:A:978:TYR:HD2	1.99	0.75
3:A:895:VAL:HG13	3:A:896:GLY:N	2.00	0.75
4:B:880:GLU:CG	4:B:901:ARG:CG	2.63	0.75
4:B:1079:ALA:HB2	4:B:1100:LEU:HD23	1.67	0.75
5:C:108:THR:O	5:C:111:HIS:N	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:27:GLU:HA	6:E:37:GLY:HA3	1.67	0.75
6:E:45:ILE:HD12	6:E:50:LEU:HA	1.68	0.75
6:E:84:ILE:HG21	6:E:93:VAL:HG22	1.69	0.75
8:G:233:VAL:HA	8:G:236:TYR:CZ	2.22	0.75
9:S:132:LEU:HD21	9:U:24:LYS:CD	2.16	0.75
9:V:104:TYR:CD2	9:V:303:PRO:HD2	2.21	0.75
9:V:171:THR:HA	9:V:177:LEU:HD23	1.68	0.75
9:V:184:PRO:C	9:V:188:LEU:HD23	2.11	0.75
9:V:195:VAL:CB	9:V:203:GLN:NE2	2.50	0.75
3:A:141:ILE:N	3:A:403:SER:O	2.20	0.75
3:A:297:ILE:O	3:A:301:VAL:HG23	1.87	0.75
3:A:304:LEU:O	3:A:307:LEU:CG	2.28	0.75
3:A:449:THR:HG23	3:A:535:VAL:H	1.51	0.75
3:A:613:GLN:O	3:A:616:THR:N	2.16	0.75
3:A:705:SER:N	3:A:871:MET:HE1	2.00	0.75
3:A:724:ILE:HG13	3:A:725:GLU:H	1.51	0.75
4:B:359:LEU:HD22	4:B:383:GLY:O	1.85	0.75
4:B:1014:ILE:HG22	4:B:1018:LEU:HD11	1.67	0.75
5:C:38:ASN:OD1	5:C:38:ASN:N	2.08	0.75
5:C:58:ILE:CD1	5:C:138:MET:HG2	2.17	0.75
6:E:49:THR:HB	6:E:51:LYS:HZ2	1.51	0.75
6:E:78:ARG:NH1	6:E:80:ARG:HG2	2.00	0.75
6:E:115:VAL:HG21	6:E:311:ASP:HB2	1.67	0.75
8:G:185:GLN:HE22	8:G:186:GLU:HG3	1.51	0.75
8:G:233:VAL:HG12	8:G:236:TYR:CZ	2.20	0.75
9:T:70:ILE:O	9:T:73:GLU:N	2.19	0.75
9:T:168:GLU:HA	9:T:260:PRO:HA	1.66	0.75
9:V:147:ASN:OD1	9:V:151:LEU:HD23	1.87	0.75
10:X:169:THR:HA	10:X:211:THR:HG21	1.68	0.75
2:2:81:DG:C8	9:S:34:ARG:NH1	2.54	0.75
3:A:452:ARG:O	3:A:460:GLU:N	2.18	0.75
3:A:681:ALA:C	3:A:682:LEU:HD22	2.12	0.75
3:A:697:ASN:O	3:A:697:ASN:CG	2.30	0.75
4:B:412:ILE:HG23	4:B:424:LEU:HD22	0.81	0.75
4:B:574:LEU:HD22	4:B:578:PRO:HD3	1.67	0.75
4:B:809:ALA:O	4:B:812:LEU:N	2.19	0.75
5:C:101:VAL:O	5:C:102:ASN:ND2	2.20	0.75
5:D:101:VAL:O	5:D:102:ASN:ND2	2.20	0.75
5:D:162:ASP:OD2	5:D:164:LEU:HB3	1.87	0.75
5:D:217:LEU:HD12	5:D:221:PHE:HB3	1.67	0.75
6:E:78:ARG:HD2	8:G:346:GLY:C	2.10	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:391:ARG:O	6:E:394:ARG:N	2.20	0.75
8:G:114:GLU:OE2	8:G:115:ARG:HG3	1.86	0.75
9:U:143:ALA:C	9:U:293:PHE:CE2	2.64	0.75
9:U:242:LEU:O	9:U:242:LEU:CD1	2.30	0.75
9:V:188:LEU:HD13	9:V:213:LEU:CG	2.17	0.75
9:V:194:VAL:CG1	9:V:221:LEU:HD12	2.17	0.75
9:V:207:GLN:HE21	9:V:217:LEU:HD21	1.51	0.75
10:X:69:LEU:HD13	10:X:73:SER:HB2	1.67	0.75
3:A:261:PHE:HB2	3:A:262:PHE:CD1	2.22	0.75
3:A:750:GLN:C	3:A:751:LEU:HD22	2.12	0.75
3:A:1077:LEU:CD2	6:E:338:ILE:HD11	2.17	0.75
4:B:602:GLY:N	4:B:634:GLU:HG2	2.02	0.75
9:S:134:VAL:O	9:S:139:LEU:N	2.19	0.75
9:U:108:VAL:HB	9:U:296:LEU:CD2	2.07	0.75
9:U:138:GLY:CA	9:U:140:VAL:O	2.34	0.75
1:1:113:DT:C7	3:A:414:ARG:CD	2.63	0.74
3:A:55:PRO:CA	3:A:66:HIS:ND1	2.50	0.74
3:A:900:GLU:HG2	3:A:901:CYS:N	2.01	0.74
3:A:1027:ALA:HB1	6:E:438:ARG:HD3	1.65	0.74
4:B:16:LEU:HD23	4:B:16:LEU:C	2.12	0.74
4:B:604:LEU:HD23	4:B:780:GLU:HB3	1.69	0.74
4:B:813:ALA:CA	4:B:834:ILE:CD1	2.29	0.74
4:B:860:LYS:O	4:B:862:GLY:N	2.18	0.74
4:B:1129:TYR:C	4:B:1130:GLN:HE21	1.94	0.74
5:C:57:ARG:HG3	5:C:139:GLU:CD	2.12	0.74
9:S:206:VAL:HG12	9:S:217:LEU:HD21	1.69	0.74
9:S:261:LEU:HD12	9:S:262:ALA:O	1.87	0.74
9:U:135:LEU:HD11	9:U:142:LEU:C	2.12	0.74
10:X:179:ILE:HG23	10:X:183:ILE:HD11	1.69	0.74
10:Y:83:GLY:N	10:Y:86:SER:OG	2.19	0.74
3:A:83:GLU:CA	3:A:86:ARG:HD3	2.15	0.74
3:A:376:GLU:O	3:A:380:SER:N	2.20	0.74
3:A:450:HIS:CD2	3:A:533:GLN:HG3	2.21	0.74
3:A:784:GLU:HA	8:G:343:LEU:HD13	1.70	0.74
4:B:21:PHE:CD1	6:E:497:ILE:CD1	2.70	0.74
4:B:71:GLU:O	4:B:74:ARG:N	2.20	0.74
4:B:1216:THR:H	4:B:1219:VAL:CG1	1.99	0.74
5:C:18:ASN:HA	5:C:200:THR:H	1.52	0.74
6:E:47:TYR:CG	6:E:48:ARG:N	2.55	0.74
6:E:237:THR:OG1	6:E:239:SER:OG	2.05	0.74
6:E:510:SER:H	6:E:513:MET:HE2	1.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:226:LEU:HD22	9:U:227:ASP:OD1	1.85	0.74
9:T:2:ARG:NH1	9:T:39:LEU:CD1	2.51	0.74
9:T:100:LEU:CD2	9:T:301:ILE:HD11	2.17	0.74
9:T:102:GLY:HA3	9:T:249:GLU:CG	2.16	0.74
9:T:157:MET:HG3	9:T:294:TRP:HH2	1.46	0.74
10:X:54:LEU:HD12	10:X:92:ALA:HB2	1.68	0.74
3:A:98:PRO:HA	3:A:113:GLU:HA	1.68	0.74
3:A:147:VAL:HG12	3:A:277:LEU:HD11	1.70	0.74
3:A:469:GLY:HA2	3:A:503:ILE:HD11	1.68	0.74
3:A:1094:ASP:CG	3:A:1095:GLY:H	1.95	0.74
4:B:55:ASP:O	4:B:57:MET:N	2.20	0.74
4:B:147:MET:C	4:B:154:ILE:HD12	2.12	0.74
4:B:266:ASP:CG	4:B:267:ASP:H	1.94	0.74
4:B:671:VAL:HG21	4:B:737:LEU:HD22	1.67	0.74
4:B:904:ASP:CG	4:B:967:ARG:HG3	2.12	0.74
4:B:1129:TYR:CD2	4:B:1136:ILE:CG2	2.70	0.74
5:C:13:THR:O	5:C:14:GLU:CG	2.34	0.74
8:G:244:LYS:HD2	8:G:244:LYS:C	2.11	0.74
9:S:140:VAL:HG12	9:S:142:LEU:O	1.85	0.74
9:T:45:LEU:CD1	9:T:62:ARG:CB	2.28	0.74
9:T:206:VAL:CG1	9:T:241:LEU:HD12	2.17	0.74
9:U:111:LYS:HZ3	9:U:292:HIS:HD2	1.35	0.74
3:A:62:LYS:HB3	3:A:105:GLU:HB2	1.70	0.74
3:A:1087:HIS:NE2	6:E:11:TYR:OH	2.20	0.74
4:B:130:ALA:HA	6:E:511:GLN:HB2	1.70	0.74
4:B:1129:TYR:CG	4:B:1136:ILE:HG23	2.22	0.74
5:C:68:VAL:HG21	5:C:136:LEU:HD12	1.69	0.74
5:D:18:ASN:HA	5:D:200:THR:H	1.52	0.74
5:D:48:LEU:HD21	5:D:171:MET:SD	2.27	0.74
6:E:389:ILE:CG2	6:E:405:LYS:HG2	2.16	0.74
9:T:142:LEU:CD1	9:T:293:PHE:CE2	2.70	0.74
9:T:144:ILE:HB	9:T:162:LEU:HD12	1.70	0.74
9:T:293:PHE:CD1	9:T:297:VAL:HG23	2.21	0.74
9:U:70:ILE:O	9:U:73:GLU:N	2.19	0.74
9:U:111:LYS:CD	9:U:292:HIS:CD2	2.70	0.74
9:U:183:VAL:CG2	9:U:262:ALA:HB3	2.17	0.74
9:V:101:CYS:SG	9:V:105:LEU:CD2	2.76	0.74
10:X:49:LYS:HA	10:X:71:GLU:HA	1.68	0.74
10:X:164:CYS:H	10:X:169:THR:HB	1.52	0.74
3:A:142:VAL:HA	3:A:323:ARG:HH21	1.51	0.74
3:A:334:ASN:CG	3:A:335:GLN:N	2.43	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:827:GLU:N	3:A:827:GLU:OE1	2.20	0.74
3:A:875:PRO:CB	3:A:960:TYR:CE2	2.70	0.74
4:B:286:LEU:HA	4:B:1146:ARG:CD	2.17	0.74
4:B:359:LEU:HA	4:B:386:ILE:CG1	2.18	0.74
4:B:496:LEU:HA	4:B:511:ALA:CB	2.17	0.74
4:B:1110:ALA:O	4:B:1114:LEU:HG	1.86	0.74
6:E:19:PRO:HA	6:E:22:ILE:HG12	1.68	0.74
6:E:94:THR:OG1	6:E:95:GLU:O	2.04	0.74
9:S:106:PRO:O	9:S:109:LEU:HG	1.87	0.74
9:S:185:TRP:NE1	9:S:213:LEU:HD12	2.02	0.74
9:U:142:LEU:HD13	9:U:278:MET:HE2	1.67	0.74
9:U:278:MET:SD	9:U:294:TRP:C	2.71	0.74
10:X:83:GLY:N	10:X:86:SER:OG	2.19	0.74
10:X:130:ILE:HD12	10:Y:130:ILE:HG21	1.68	0.74
10:Y:205:ILE:HA	10:Y:210:ILE:HG12	1.70	0.74
1:1:44:DG:C6	2:2:82:DC:N3	2.54	0.74
3:A:149:TYR:CZ	3:A:315:ASP:HB3	2.23	0.74
3:A:164:SER:HA	3:A:174:LYS:HA	1.69	0.74
3:A:202:LEU:CD1	3:A:294:SER:HB3	2.17	0.74
3:A:235:LEU:HD22	3:A:250:VAL:HA	1.67	0.74
3:A:272:VAL:HG13	3:A:273:GLY:N	2.02	0.74
3:A:542:ILE:HG22	3:A:545:LEU:N	2.02	0.74
3:A:898:VAL:HG23	3:A:899:PHE:HD1	1.50	0.74
4:B:286:LEU:HA	4:B:1146:ARG:HG3	1.69	0.74
4:B:294:VAL:HG12	4:B:1146:ARG:NH2	2.03	0.74
4:B:515:LEU:H	4:B:873:ARG:HG2	1.53	0.74
5:C:57:ARG:HG2	5:C:139:GLU:HG3	1.60	0.74
5:C:198:VAL:O	5:C:199:TRP:HD1	1.71	0.74
6:E:316:ASN:OD1	6:E:323:VAL:N	2.17	0.74
6:E:548:GLU:C	6:E:550:ILE:H	1.94	0.74
8:G:233:VAL:HA	8:G:236:TYR:CD2	2.21	0.74
9:S:36:ILE:HA	9:S:39:LEU:HB3	1.70	0.74
9:T:123:VAL:HB	9:V:223:VAL:HA	1.69	0.74
9:T:157:MET:HG3	9:T:294:TRP:CZ2	2.18	0.74
9:U:91:GLU:C	9:U:92:LEU:CD1	2.59	0.74
9:U:161:VAL:HG23	9:U:162:LEU:N	2.03	0.74
9:U:196:PHE:CE2	9:U:229:PHE:HB3	2.22	0.74
9:U:211:GLU:HG2	9:U:216:THR:C	2.11	0.74
9:U:297:VAL:HG23	9:U:301:ILE:HB	1.67	0.74
9:V:48:PHE:O	9:V:57:THR:HG22	1.85	0.74
9:V:144:ILE:HG22	9:V:162:LEU:HD22	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:158:ARG:NH2	3:A:179:ARG:O	2.20	0.74
3:A:423:HIS:HD2	3:A:425:SER:CB	2.00	0.74
3:A:546:GLU:CB	3:A:919:PHE:HA	2.17	0.74
3:A:884:LEU:HG	3:A:885:ASN:H	1.53	0.74
3:A:898:VAL:O	3:A:899:PHE:C	2.30	0.74
4:B:97:THR:N	4:B:422:GLN:OE1	2.21	0.74
4:B:412:ILE:HG22	4:B:413:VAL:N	2.03	0.74
5:C:46:SER:OG	5:C:47:ASN:N	2.12	0.74
5:D:108:THR:O	5:D:111:HIS:N	2.20	0.74
8:G:360:VAL:HG12	8:G:360:VAL:O	1.87	0.74
9:S:73:GLU:HB2	9:T:66:ARG:HD3	1.68	0.74
9:V:94:ILE:HD11	9:V:297:VAL:HG21	1.70	0.74
9:V:174:ASN:HB2	9:V:255:THR:OG1	1.87	0.74
9:V:188:LEU:O	9:V:239:ILE:HG21	1.88	0.74
9:V:261:LEU:C	9:V:264:SER:HB2	2.12	0.74
10:X:46:PHE:CB	10:X:101:LEU:CD1	2.66	0.74
1:1:76:DC:H41	2:2:50:DG:H21	1.34	0.74
3:A:34:GLN:HG2	3:A:35:ARG:N	2.03	0.74
3:A:184:TRP:HE3	3:A:194:SER:C	1.96	0.74
3:A:274:ARG:NH1	3:A:285:VAL:O	2.20	0.74
3:A:579:GLU:CA	3:A:581:GLN:HE22	2.01	0.74
3:A:609:ARG:HE	3:A:637:TYR:H	1.32	0.74
3:A:993:ARG:HD2	3:A:1012:GLN:CG	2.14	0.74
3:A:1035:GLN:CD	4:B:1244:LEU:HA	2.12	0.74
4:B:73:ILE:HG22	4:B:94:VAL:HG23	1.69	0.74
4:B:89:GLU:OE1	4:B:89:GLU:N	2.21	0.74
4:B:148:ALA:HA	4:B:154:ILE:HB	1.69	0.74
4:B:167:LEU:HD23	4:B:171:GLU:OE2	1.84	0.74
4:B:517:THR:HG23	4:B:865:ILE:HG23	1.66	0.74
4:B:1008:ILE:HG23	4:B:1009:GLN:HG2	1.69	0.74
4:B:1037:LYS:HZ3	4:B:1053:GLU:HB3	1.52	0.74
6:E:71:CYS:H	6:E:76:TYR:CB	2.00	0.74
6:E:379:MET:SD	6:E:475:VAL:CG2	2.76	0.74
6:E:480:SER:OG	6:E:483:SER:N	2.21	0.74
6:E:545:PHE:C	6:E:547:GLN:H	1.95	0.74
9:T:98:HIS:NE2	9:T:196:PHE:CE1	2.55	0.74
9:T:156:ASP:OD1	9:T:285:LEU:CB	2.35	0.74
9:T:189:VAL:HG11	9:T:193:GLN:HG3	0.74	0.74
9:U:254:PRO:HA	9:U:256:LEU:O	1.88	0.74
9:V:265:ALA:O	9:V:266:LEU:HB2	1.86	0.74
10:X:133:THR:O	10:X:137:ILE:HG13	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:497:VAL:HG21	4:B:875:GLN:HE22	1.51	0.74
4:B:524:ARG:HH21	4:B:540:ILE:HG13	1.53	0.74
4:B:694:VAL:H	4:B:736:LEU:N	1.85	0.74
4:B:897:CYS:H	4:B:987:LEU:HD22	1.52	0.74
5:C:196:LEU:N	5:C:196:LEU:HD23	2.03	0.74
5:D:123:PRO:O	5:D:124:THR:OG1	2.03	0.74
9:T:27:VAL:CG1	9:T:31:THR:OG1	2.32	0.74
9:T:144:ILE:HG22	9:T:162:LEU:HD13	1.66	0.74
9:T:293:PHE:CD1	9:T:297:VAL:CG2	2.71	0.74
3:A:148:TYR:HA	3:A:149:TYR:HD1	1.53	0.74
3:A:152:GLU:HG3	3:A:160:THR:OG1	1.87	0.74
3:A:427:TYR:HD1	4:B:173:ILE:HD13	1.52	0.74
3:A:574:VAL:HG22	3:A:575:GLY:H	1.53	0.74
3:A:691:MET:HA	3:A:691:MET:CE	2.15	0.74
3:A:993:ARG:HE	3:A:1012:GLN:HA	1.30	0.74
3:A:1035:GLN:O	3:A:1036:GLU:C	2.26	0.74
4:B:288:CYS:SG	4:B:295:CYS:N	2.61	0.74
4:B:1126:GLN:N	4:B:1136:ILE:CD1	2.51	0.74
8:G:108:ALA:HA	8:G:111:LEU:HD12	1.70	0.74
8:G:138:GLN:O	8:G:139:LEU:HG	1.88	0.74
8:G:336:VAL:CG2	8:G:358:PHE:CD1	2.71	0.74
9:T:170:LEU:HD11	9:T:233:VAL:HG23	1.67	0.74
9:U:108:VAL:CG2	9:U:112:PHE:HD1	2.00	0.74
9:U:127:GLY:HA3	9:U:200:TYR:CD1	2.23	0.74
9:U:206:VAL:HG21	9:U:274:ARG:HG3	1.68	0.74
9:U:243:PRO:HG2	9:U:274:ARG:CD	2.17	0.74
9:U:288:PRO:N	9:U:291:LYS:HG2	2.02	0.74
9:V:99:SER:OG	9:V:274:ARG:NH2	2.20	0.74
9:V:285:LEU:CD1	9:V:286:GLN:H	2.01	0.74
10:X:36:PHE:HB2	10:X:39:ASP:OD1	1.88	0.74
3:A:306:ASN:OD1	3:A:311:ILE:CB	2.36	0.73
3:A:425:SER:OG	3:A:426:HIS:N	2.12	0.73
3:A:1027:ALA:HB1	6:E:438:ARG:NH1	2.02	0.73
4:B:59:PRO:HD3	4:B:109:VAL:HG23	1.70	0.73
4:B:189:ARG:NH2	4:B:331:THR:O	2.20	0.73
4:B:614:LYS:NZ	4:B:622:GLU:HB2	2.02	0.73
4:B:851:GLY:HA2	4:B:877:LEU:HD11	1.68	0.73
4:B:1159:ASP:CG	4:B:1188:ALA:HA	2.12	0.73
6:E:18:SER:OG	6:E:19:PRO:HD2	1.88	0.73
6:E:31:PRO:C	6:E:33:GLY:N	2.38	0.73
6:E:249:ILE:HG22	6:E:250:PRO:N	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:578:THR:HG22	6:E:584:ARG:CB	2.16	0.73
6:E:592:ARG:H	6:E:605:TYR:HB2	1.53	0.73
8:G:162:ASN:CG	8:G:206:PHE:HZ	1.96	0.73
9:S:81:LEU:HD23	9:S:86:ALA:HA	1.70	0.73
9:S:132:LEU:O	9:S:136:LYS:NZ	2.21	0.73
9:S:150:PHE:HD2	9:S:157:MET:HE1	1.53	0.73
9:V:65:PRO:O	9:V:66:ARG:HG2	1.88	0.73
10:Y:95:PHE:CZ	10:Y:172:LEU:CD1	2.71	0.73
10:Y:148:ARG:NH2	10:Y:183:ILE:CD1	2.51	0.73
3:A:45:GLY:O	3:A:46:LEU:C	2.30	0.73
3:A:184:TRP:HA	3:A:195:ALA:CB	2.14	0.73
3:A:618:SER:C	3:A:620:LYS:H	1.97	0.73
3:A:1051:ALA:O	3:A:1054:ALA:N	2.21	0.73
4:B:418:VAL:C	4:B:419:LYS:HG2	2.12	0.73
4:B:480:ILE:HB	4:B:972:TYR:HB2	1.70	0.73
4:B:852:SER:CA	4:B:877:LEU:CD2	2.65	0.73
4:B:858:GLU:OE1	4:B:871:VAL:HA	1.87	0.73
5:C:6:ILE:HG21	5:D:228:SER:H	1.52	0.73
5:C:63:HIS:CG	5:C:64:GLU:H	2.05	0.73
5:D:63:HIS:CG	5:D:64:GLU:H	2.06	0.73
6:E:22:ILE:HG22	6:E:25:TRP:HZ2	1.46	0.73
6:E:71:CYS:HB2	6:E:76:TYR:CD2	2.22	0.73
6:E:578:THR:HA	6:E:584:ARG:HA	1.70	0.73
6:E:585:THR:O	6:E:592:ARG:NH2	2.20	0.73
8:G:173:TYR:CB	8:G:183:LEU:HD11	2.18	0.73
9:T:219:ALA:O	9:V:120:GLN:HG3	1.88	0.73
9:V:184:PRO:HA	9:V:188:LEU:HD23	1.69	0.73
10:X:120:MET:HA	10:X:123:LEU:HD12	1.69	0.73
10:Y:166:ASP:OD2	10:Y:211:THR:O	2.06	0.73
2:2:103:DG:H1	9:U:34:ARG:HH21	1.35	0.73
3:A:686:ILE:HB	3:A:882:ILE:HD13	1.70	0.73
3:A:703:LEU:HD23	3:A:703:LEU:C	2.12	0.73
3:A:752:ASP:OD1	3:A:753:GLU:N	2.22	0.73
3:A:999:SER:O	8:G:303:GLU:HB2	1.88	0.73
4:B:28:ARG:HH12	7:F:20:ASP:HB3	1.53	0.73
4:B:359:LEU:HD21	4:B:384:ILE:HB	1.67	0.73
6:E:47:TYR:CE2	6:E:48:ARG:HB2	2.24	0.73
6:E:78:ARG:CD	8:G:348:MET:HE2	2.17	0.73
6:E:84:ILE:O	6:E:92:GLU:HA	1.88	0.73
6:E:260:VAL:HG11	6:E:268:ALA:HB3	1.67	0.73
6:E:403:ALA:O	6:E:406:LYS:CD	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:30:SER:HB3	9:T:33:SER:OG	1.87	0.73
9:T:247:LEU:HB2	9:T:251:ARG:HH11	1.53	0.73
9:U:132:LEU:O	9:U:136:LYS:HB3	1.86	0.73
10:X:84:ASN:O	10:X:88:ARG:NH2	2.21	0.73
10:Y:146:GLY:HA2	10:Y:149:LEU:HD12	1.69	0.73
3:A:140:GLN:NE2	3:A:326:ARG:HG2	2.02	0.73
3:A:463:PHE:HE2	3:A:480:MET:CB	1.97	0.73
3:A:929:ARG:O	3:A:932:VAL:HG22	1.88	0.73
3:A:1051:ALA:O	3:A:1052:LEU:C	2.31	0.73
4:B:212:ILE:HA	4:B:296:GLN:HB3	1.71	0.73
4:B:303:LEU:HD22	6:E:502:THR:HA	1.71	0.73
4:B:417:GLN:C	4:B:419:LYS:N	2.42	0.73
4:B:1035:GLU:O	4:B:1037:LYS:HG2	1.89	0.73
4:B:1151:LYS:CA	4:B:1169:GLU:HA	2.08	0.73
5:D:120:VAL:HG21	5:D:123:PRO:HB3	1.70	0.73
8:G:106:LYS:CE	8:G:150:ILE:CG2	2.62	0.73
8:G:131:SER:O	8:G:134:ALA:HB3	1.89	0.73
8:G:210:ALA:O	8:G:214:ILE:HG12	1.89	0.73
9:S:128:SER:OG	9:S:145:VAL:HG13	1.88	0.73
9:S:162:LEU:HD12	9:S:163:TYR:N	2.04	0.73
9:S:285:LEU:HB3	9:S:291:LYS:CD	2.16	0.73
9:T:97:ILE:HG22	9:T:100:LEU:CD1	2.17	0.73
9:V:93:CYS:HB2	9:V:141:ASP:CB	2.16	0.73
10:X:101:LEU:HD21	10:X:103:ALA:O	1.89	0.73
3:A:61:GLY:C	3:A:104:LYS:HE2	2.13	0.73
3:A:147:VAL:N	3:A:148:TYR:CZ	2.57	0.73
3:A:522:GLU:N	3:A:523:GLN:OE1	2.21	0.73
3:A:546:GLU:HG3	3:A:547:HIS:CD2	2.22	0.73
3:A:726:ALA:C	3:A:833:ASN:HD21	1.95	0.73
3:A:993:ARG:NH1	3:A:995:THR:C	2.42	0.73
4:B:458:VAL:CG1	4:B:478:GLY:HA3	2.18	0.73
4:B:486:GLU:HB3	4:B:879:LYS:HB3	1.69	0.73
4:B:504:VAL:HG21	4:B:510:LEU:CD1	2.19	0.73
4:B:800:GLU:CG	4:B:801:GLN:H	1.98	0.73
8:G:116:VAL:O	8:G:119:ARG:N	2.22	0.73
8:G:206:PHE:CD1	8:G:210:ALA:HB1	2.20	0.73
9:S:181:GLU:CG	9:S:259:ARG:HD2	2.12	0.73
9:S:285:LEU:HD11	9:S:294:TRP:CE3	2.23	0.73
9:T:98:HIS:HA	9:T:125:SER:HB3	1.70	0.73
9:T:148:ASN:O	9:T:278:MET:HA	1.89	0.73
9:U:160:GLU:CG	9:U:298:ARG:CG	2.65	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:95:ALA:N	9:V:142:LEU:O	2.20	0.73
9:V:160:GLU:CD	9:V:294:TRP:O	2.32	0.73
9:V:209:LYS:C	9:V:213:LEU:HB3	2.14	0.73
10:X:212:VAL:CG2	10:X:217:THR:CB	2.60	0.73
10:Y:84:ASN:O	10:Y:88:ARG:NH2	2.21	0.73
3:A:27:LEU:HD23	3:A:27:LEU:H	1.54	0.73
3:A:494:ASP:O	3:A:495:ILE:HG23	1.88	0.73
3:A:1052:LEU:HB2	8:G:313:VAL:HG11	1.69	0.73
4:B:6:ARG:NH2	4:B:12:GLN:HE22	1.85	0.73
4:B:227:GLU:OE2	4:B:228:GLY:N	2.21	0.73
4:B:330:LEU:CG	4:B:1011:LEU:HD12	2.19	0.73
4:B:461:GLU:OE1	4:B:473:THR:OG1	2.03	0.73
5:C:226:ASP:HB2	5:D:211:SER:HA	1.69	0.73
6:E:520:LEU:HD22	6:E:615:TYR:CB	2.18	0.73
7:F:58:VAL:CG2	7:F:62:ILE:HD11	2.19	0.73
8:G:260:GLU:OE1	8:G:260:GLU:N	2.17	0.73
9:T:2:ARG:HD2	9:T:5:GLN:HB2	1.70	0.73
9:T:292:HIS:HA	9:T:295:GLN:NE2	2.03	0.73
9:V:86:ALA:CB	9:V:287:ILE:HD11	2.08	0.73
9:V:172:ALA:HB3	9:V:175:HIS:HB2	1.69	0.73
10:X:29:GLU:H	10:X:32:LYS:HE3	1.54	0.73
10:Y:36:PHE:HB2	10:Y:39:ASP:OD1	1.88	0.73
3:A:384:SER:OG	3:A:385:GLN:O	2.06	0.73
3:A:607:ARG:HG3	3:A:609:ARG:CB	2.11	0.73
3:A:629:SER:HA	3:A:633:GLN:NE2	2.03	0.73
3:A:746:ASP:C	3:A:749:ARG:NH1	2.46	0.73
3:A:900:GLU:O	3:A:902:LEU:N	2.21	0.73
4:B:224:PRO:HG2	4:B:226:THR:OG1	1.88	0.73
6:E:197:LEU:HD11	6:E:245:VAL:HG21	1.70	0.73
6:E:552:LEU:HD22	6:E:553:HIS:CE1	2.23	0.73
9:S:178:ALA:C	9:S:259:ARG:HG3	2.14	0.73
9:T:142:LEU:HB3	9:T:285:LEU:CD1	2.18	0.73
9:T:146:MET:CE	9:T:201:GLY:O	2.37	0.73
9:T:202:MET:HA	9:T:205:LEU:HD21	0.74	0.73
9:U:39:LEU:HD12	9:U:43:LEU:HD13	1.71	0.73
9:V:98:HIS:ND1	9:V:125:SER:HB3	2.04	0.73
9:V:181:GLU:O	9:V:184:PRO:HG3	1.88	0.73
10:X:35:PHE:CB	10:X:91:HIS:HA	2.11	0.73
10:X:203:ILE:HA	10:X:210:ILE:HA	1.71	0.73
3:A:215:HIS:NE2	3:A:219:PHE:CE2	2.49	0.73
3:A:747:ALA:O	3:A:749:ARG:NH1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:37:LYS:C	6:E:513:MET:SD	2.72	0.73
4:B:286:LEU:CA	4:B:1146:ARG:HD3	2.18	0.73
4:B:692:LEU:O	4:B:736:LEU:N	2.21	0.73
4:B:761:GLN:NE2	4:B:765:SER:HA	1.99	0.73
5:C:108:THR:HG1	5:C:111:HIS:H	1.37	0.73
5:D:198:VAL:O	5:D:199:TRP:HD1	1.71	0.73
8:G:86:LEU:C	8:G:88:GLU:H	1.96	0.73
9:S:105:LEU:HB2	9:S:108:VAL:CG1	2.19	0.73
9:T:134:VAL:HA	9:T:137:ASP:CB	2.17	0.73
9:T:157:MET:CE	9:T:281:THR:O	2.37	0.73
9:U:157:MET:HG3	9:U:159:VAL:H	1.53	0.73
9:V:166:PRO:HB2	9:V:168:GLU:HG3	1.70	0.73
1:1:113:DT:H73	3:A:414:ARG:HG3	1.68	0.73
2:2:90:DG:H3'	9:T:27:VAL:HG13	1.70	0.73
3:A:278:ASN:O	3:A:281:LEU:N	2.20	0.73
3:A:464:ARG:NH1	3:A:529:VAL:O	2.21	0.73
3:A:511:ARG:HA	3:A:516:PHE:HA	1.71	0.73
3:A:658:ARG:N	3:A:661:GLU:OE2	2.21	0.73
3:A:957:ILE:HG22	3:A:958:MET:N	2.04	0.73
4:B:249:ILE:O	4:B:249:ILE:CG2	2.34	0.73
4:B:629:LEU:H	4:B:743:GLU:HG3	1.53	0.73
4:B:635:GLU:N	4:B:686:VAL:O	2.17	0.73
4:B:919:GLY:O	4:B:939:GLN:NE2	2.20	0.73
5:D:149:ARG:HG3	6:E:549:GLN:HG2	1.70	0.73
6:E:46:ASN:OD1	6:E:49:THR:N	2.21	0.73
6:E:375:LEU:HD12	6:E:376:PRO:HD2	1.71	0.73
8:G:140:PRO:O	8:G:144:PHE:HD2	1.71	0.73
9:T:168:GLU:HG2	9:T:260:PRO:HB3	1.70	0.73
9:U:94:ILE:C	9:U:140:VAL:HG13	2.14	0.73
9:U:194:VAL:HG21	9:U:238:LEU:HD13	1.70	0.73
9:V:168:GLU:HB3	9:V:260:PRO:HA	1.69	0.73
9:V:247:LEU:HD11	9:V:251:ARG:CD	1.98	0.73
10:Y:44:VAL:HG11	10:Y:103:ALA:H	1.53	0.73
3:A:343:LEU:O	3:A:347:ILE:HG12	1.88	0.73
3:A:833:ASN:OD1	3:A:834:MET:N	2.22	0.73
3:A:1026:GLU:OE1	4:B:1235:LEU:HD13	1.88	0.73
3:A:1041:LYS:CE	6:E:356:TYR:HB2	2.19	0.73
3:A:1091:THR:OG1	3:A:1094:ASP:O	2.06	0.73
4:B:65:LEU:O	4:B:68:ALA:HB3	1.87	0.73
4:B:146:LEU:HD12	4:B:154:ILE:HD11	1.69	0.73
4:B:287:THR:OG1	4:B:288:CYS:N	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:522:VAL:O	4:B:539:ILE:HA	1.89	0.73
4:B:631:TRP:NE1	4:B:633:PRO:HG3	2.04	0.73
4:B:694:VAL:CA	4:B:736:LEU:HD22	2.19	0.73
4:B:854:GLN:HE21	4:B:875:GLN:HG3	1.52	0.73
4:B:896:ARG:HD3	4:B:986:ASP:HA	0.74	0.73
4:B:919:GLY:C	4:B:939:GLN:HE22	1.97	0.73
4:B:1222:GLU:CD	6:E:124:TYR:OH	2.32	0.73
5:C:48:LEU:CD1	5:C:172:PRO:HD2	2.08	0.73
5:C:181:GLU:N	5:C:181:GLU:OE1	2.21	0.73
5:D:110:SER:OG	5:D:111:HIS:N	2.17	0.73
7:F:41:ARG:HA	7:F:44:TYR:HB3	1.70	0.73
8:G:140:PRO:C	8:G:144:PHE:CE2	2.67	0.73
8:G:170:ALA:HA	8:G:183:LEU:CD2	2.18	0.73
9:T:142:LEU:HD11	9:T:293:PHE:CE2	2.24	0.73
9:T:233:VAL:HG11	9:T:256:LEU:HD22	1.70	0.73
9:U:288:PRO:O	9:U:292:HIS:CB	2.37	0.73
9:V:15:THR:CB	9:V:20:LYS:CD	2.60	0.73
10:Y:150:VAL:HG11	10:Y:218:LEU:HD12	1.70	0.73
3:A:41:PHE:HA	3:A:44:GLU:OE2	1.89	0.72
3:A:51:ASN:O	3:A:54:SER:CB	2.37	0.72
3:A:538:ALA:HB3	3:A:561:ARG:CG	2.19	0.72
3:A:600:TYR:CD2	3:A:602:ASP:CG	2.67	0.72
4:B:3:PHE:HE1	4:B:5:ASN:HB3	1.53	0.72
4:B:299:TYR:CE1	4:B:315:VAL:HG11	2.24	0.72
4:B:384:ILE:CG2	4:B:405:THR:O	2.36	0.72
4:B:546:LEU:HD12	4:B:830:LEU:HB3	1.70	0.72
4:B:1037:LYS:HG3	4:B:1052:ILE:CB	2.19	0.72
4:B:1041:GLY:HA3	4:B:1050:LYS:HB2	1.71	0.72
4:B:1178:GLU:HA	4:B:1181:ALA:CB	2.19	0.72
5:D:57:ARG:HG3	5:D:139:GLU:HB2	1.71	0.72
5:D:179:SER:OG	5:D:195:LEU:O	2.06	0.72
9:S:81:LEU:HD23	9:S:86:ALA:CB	2.19	0.72
9:S:171:THR:OG1	9:S:258:VAL:HG13	1.88	0.72
9:T:24:LYS:HG2	9:V:132:LEU:CD2	2.19	0.72
9:T:247:LEU:HD13	9:T:251:ARG:HD3	1.71	0.72
10:X:126:LEU:CD1	10:Y:126:LEU:HG	2.15	0.72
10:X:145:MET:SD	10:X:183:ILE:CD1	2.71	0.72
10:Y:35:PHE:CB	10:Y:91:HIS:HA	2.11	0.72
10:Y:48:LEU:HD22	10:Y:101:LEU:HB3	1.71	0.72
3:A:215:HIS:CD2	3:A:219:PHE:CE2	2.76	0.72
3:A:295:GLY:HA2	3:A:298:LEU:HD12	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:397:THR:HA	3:A:537:VAL:HG11	1.69	0.72
3:A:423:HIS:ND1	3:A:424:PRO:HD2	2.03	0.72
3:A:507:GLN:HE22	3:A:519:THR:HA	1.53	0.72
3:A:675:THR:HG1	3:A:679:GLU:CD	1.95	0.72
3:A:1046:GLN:H	3:A:1046:GLN:CD	1.95	0.72
4:B:195:TYR:CA	4:B:198:ARG:CG	2.55	0.72
4:B:443:LYS:H	4:B:997:LEU:C	1.97	0.72
4:B:501:GLY:N	4:B:885:ARG:HA	1.96	0.72
4:B:913:LYS:HG2	4:B:914:PRO:HD2	1.69	0.72
5:C:120:VAL:HG21	5:C:123:PRO:HB3	1.70	0.72
6:E:114:HIS:CE1	6:E:116:TRP:HB2	2.24	0.72
6:E:438:ARG:HH22	6:E:500:PRO:HB3	1.53	0.72
8:G:98:ASP:OD1	8:G:99:GLU:N	2.22	0.72
9:S:120:GLN:HB3	9:S:122:ARG:HH12	1.53	0.72
9:T:194:VAL:HG21	9:T:219:ALA:CA	2.15	0.72
9:U:206:VAL:CB	9:U:274:ARG:CG	2.66	0.72
10:Y:173:LYS:HA	10:Y:208:LYS:HG2	1.69	0.72
3:A:352:THR:HG22	3:A:352:THR:O	1.89	0.72
4:B:359:LEU:HD21	4:B:384:ILE:C	2.14	0.72
4:B:481:TRP:CE2	4:B:971:PRO:HB3	2.13	0.72
4:B:601:GLY:C	4:B:633:PRO:HA	2.14	0.72
4:B:730:SER:OG	4:B:733:GLY:O	2.07	0.72
6:E:392:LEU:CD1	6:E:407:LEU:HD21	2.19	0.72
6:E:443:ALA:C	6:E:492:LEU:HD12	2.13	0.72
9:S:126:LEU:HB2	9:S:131:ALA:HA	1.69	0.72
9:U:142:LEU:CD2	9:U:294:TRP:CG	2.71	0.72
10:Y:45:TYR:HD2	10:Y:75:PHE:HB3	1.51	0.72
3:A:90:THR:CG2	3:A:131:ASN:N	2.29	0.72
3:A:285:VAL:HA	3:A:287:ASP:OD2	1.88	0.72
3:A:394:ALA:O	3:A:397:THR:N	2.22	0.72
3:A:528:ALA:HB1	3:A:530:SER:N	2.04	0.72
4:B:37:LYS:CD	6:E:509:PRO:CB	2.53	0.72
4:B:195:TYR:CD1	4:B:198:ARG:HD3	2.25	0.72
4:B:777:LYS:O	4:B:780:GLU:N	2.21	0.72
4:B:1094:LEU:HD13	4:B:1117:VAL:HG11	1.72	0.72
4:B:1128:VAL:CA	4:B:1131:SER:HB2	2.20	0.72
4:B:1218:ARG:NH1	6:E:122:PRO:HG3	2.04	0.72
5:C:207:GLN:HA	5:C:211:SER:HB2	1.72	0.72
5:D:19:HIS:H	5:D:19:HIS:CD2	2.07	0.72
6:E:276:TYR:O	6:E:279:VAL:HG12	1.89	0.72
6:E:315:ASP:O	6:E:317:GLY:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:419:LEU:C	6:E:423:ILE:HG23	2.13	0.72
6:E:556:VAL:HG22	6:E:557:TYR:N	2.05	0.72
9:U:117:PRO:O	9:U:118:GLU:HG3	1.89	0.72
9:U:169:LEU:HD22	9:U:261:LEU:HD11	1.71	0.72
9:V:164:ASP:C	9:V:165:GLU:HG2	2.14	0.72
9:V:284:ARG:CZ	9:V:290:ILE:CD1	2.68	0.72
3:A:566:LEU:HD11	3:A:715:THR:H	1.53	0.72
3:A:641:LYS:HG3	3:A:643:GLN:OE1	1.89	0.72
3:A:752:ASP:HB3	3:A:756:ILE:CG2	2.19	0.72
3:A:897:GLN:O	3:A:900:GLU:CD	2.32	0.72
4:B:87:GLU:C	4:B:89:GLU:H	1.95	0.72
5:C:75:VAL:HA	5:C:78:ILE:HB	1.71	0.72
5:C:180:VAL:HA	5:C:193:ARG:O	1.89	0.72
5:D:45:LEU:O	5:D:45:LEU:CD1	2.36	0.72
5:D:73:GLU:HG3	5:D:81:ARG:NH2	2.05	0.72
5:D:108:THR:HG1	5:D:111:HIS:N	1.87	0.72
6:E:304:ARG:HH12	8:G:84:LEU:CD1	2.01	0.72
6:E:420:GLU:CB	6:E:448:LEU:CD2	2.40	0.72
6:E:457:HIS:ND1	6:E:459:LEU:N	2.38	0.72
6:E:458:PRO:O	6:E:461:CYS:N	2.22	0.72
7:F:37:ASN:CA	7:F:40:LYS:HZ3	2.02	0.72
8:G:139:LEU:O	8:G:144:PHE:CE2	2.43	0.72
8:G:196:GLU:HG2	8:G:197:LYS:N	2.02	0.72
9:S:32:ILE:HD12	9:S:36:ILE:CD1	2.07	0.72
9:T:95:ALA:HB3	9:T:143:ALA:CA	2.19	0.72
9:T:255:THR:OG1	9:V:252:LEU:HD12	1.88	0.72
9:V:167:ILE:CB	9:V:209:LYS:NZ	2.52	0.72
10:X:35:PHE:HB2	10:X:91:HIS:CA	2.09	0.72
2:2:86:DT:C2'	2:2:87:DT:H71	2.20	0.72
3:A:623:ASP:OD2	3:A:629:SER:OG	2.03	0.72
3:A:708:LEU:HD11	3:A:714:TYR:CD2	2.22	0.72
3:A:855:ARG:NH2	3:A:978:TYR:CD2	2.57	0.72
3:A:901:CYS:SG	3:A:975:GLY:CA	2.77	0.72
4:B:510:LEU:HD22	4:B:878:SER:N	2.03	0.72
4:B:511:ALA:O	4:B:875:GLN:HA	1.90	0.72
4:B:852:SER:CA	4:B:877:LEU:HD23	2.19	0.72
5:D:38:ASN:O	5:D:41:ARG:HB3	1.89	0.72
5:D:68:VAL:HG21	5:D:136:LEU:HD12	1.68	0.72
6:E:61:ARG:NE	6:E:72:HIS:ND1	2.37	0.72
6:E:305:MET:CE	8:G:181:GLN:HG2	2.20	0.72
6:E:561:ASP:CG	6:E:604:GLN:CG	2.63	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:157:MET:HG2	9:U:20:LYS:HZ1	1.53	0.72
9:S:175:HIS:NE2	9:S:239:ILE:HD13	2.04	0.72
9:S:213:LEU:HD13	9:S:264:SER:CB	2.19	0.72
9:T:181:GLU:C	9:T:182:ARG:HG3	2.14	0.72
9:T:193:GLN:NE2	9:T:239:ILE:HB	2.04	0.72
9:U:12:ILE:HD13	9:U:36:ILE:CD1	2.20	0.72
9:U:165:GLU:HG2	9:U:245:SER:HB2	1.70	0.72
9:U:181:GLU:HG3	9:U:259:ARG:HG2	1.70	0.72
3:A:221:LYS:NZ	3:A:225:LYS:CG	2.42	0.72
3:A:724:ILE:N	3:A:836:VAL:O	2.22	0.72
3:A:762:TRP:CD1	5:C:156:GLU:OE2	2.42	0.72
4:B:21:PHE:HE2	6:E:505:PRO:HB3	1.55	0.72
4:B:212:ILE:HG22	4:B:296:GLN:CB	2.20	0.72
4:B:582:VAL:O	4:B:814:ALA:HB1	1.88	0.72
4:B:726:GLN:OE1	4:B:739:ARG:NE	2.22	0.72
4:B:922:ILE:HG23	4:B:928:LEU:HD11	1.69	0.72
4:B:1151:LYS:HA	4:B:1169:GLU:CA	2.08	0.72
6:E:238:GLY:O	6:E:239:SER:OG	2.01	0.72
6:E:362:ILE:HD11	6:E:473:MET:SD	2.26	0.72
6:E:457:HIS:HE1	6:E:459:LEU:HB2	1.54	0.72
7:F:15:MET:O	7:F:16:HIS:ND1	2.22	0.72
9:S:1:MET:HE1	9:S:63:LEU:HD11	1.72	0.72
9:S:147:ASN:HB2	9:S:161:VAL:HG12	1.70	0.72
9:S:243:PRO:CG	9:S:274:ARG:NH2	2.52	0.72
9:T:23:SER:HB2	9:V:152:THR:O	1.89	0.72
9:T:168:GLU:O	9:T:242:LEU:N	2.21	0.72
10:X:27:THR:HA	10:X:98:VAL:O	1.89	0.72
10:X:34:ILE:HD12	10:X:93:VAL:HA	1.71	0.72
1:1:28:DT:H3	2:2:98:DA:H61	1.37	0.72
3:A:261:PHE:O	3:A:263:ASP:N	2.23	0.72
3:A:272:VAL:O	3:A:273:GLY:C	2.32	0.72
3:A:315:ASP:OD1	3:A:315:ASP:N	2.15	0.72
3:A:579:GLU:O	3:A:582:GLY:N	2.23	0.72
3:A:884:LEU:CG	3:A:885:ASN:N	2.51	0.72
4:B:43:TYR:O	4:B:44:ALA:C	2.30	0.72
4:B:281:VAL:HG13	4:B:282:VAL:HG22	1.72	0.72
4:B:454:LYS:HG2	4:B:455:PHE:N	2.00	0.72
4:B:863:ASP:HB2	4:B:866:VAL:HG23	1.72	0.72
5:C:108:THR:HG1	5:C:110:SER:HG	1.38	0.72
9:S:105:LEU:HD12	9:S:108:VAL:HG22	1.70	0.72
9:T:180:TYR:O	9:T:188:LEU:HD11	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:28:THR:CG2	9:U:29:GLN:HE21	2.02	0.72
9:U:62:ARG:HD2	9:V:87:GLY:O	1.90	0.72
9:U:111:LYS:HD2	9:U:292:HIS:NE2	2.05	0.72
9:U:225:THR:O	9:U:229:PHE:HB2	1.90	0.72
9:V:146:MET:SD	9:V:274:ARG:CB	2.77	0.72
9:V:164:ASP:HA	9:V:274:ARG:HB3	1.71	0.72
9:V:214:GLU:CD	9:V:266:LEU:HG	2.15	0.72
10:X:130:ILE:HG21	10:Y:130:ILE:HG21	1.71	0.72
3:A:720:GLU:N	3:A:720:GLU:OE1	2.22	0.72
3:A:820:PHE:O	3:A:835:VAL:HG22	1.90	0.72
3:A:1047:GLY:O	3:A:1048:ARG:C	2.33	0.72
4:B:100:GLY:HA2	4:B:424:LEU:HG	1.70	0.72
4:B:1114:LEU:C	4:B:1118:GLN:OE1	2.33	0.72
4:B:1226:GLU:HG3	6:E:233:ASN:HB3	1.71	0.72
5:C:52:ALA:N	5:C:143:GLU:O	2.22	0.72
5:D:34:THR:CG2	5:D:180:VAL:HG21	2.20	0.72
6:E:81:HIS:CD2	6:E:84:ILE:HB	2.25	0.72
6:E:83:GLY:O	6:E:85:VAL:HG13	1.89	0.72
6:E:106:ILE:HD13	6:E:279:VAL:HG13	1.70	0.72
6:E:346:ARG:HG2	6:E:350:LEU:HB3	1.72	0.72
6:E:623:LEU:CD1	6:E:624:ALA:N	2.47	0.72
9:S:64:LEU:HA	9:S:67:ALA:HB3	1.72	0.72
9:S:177:LEU:HD23	9:S:187:GLU:HG2	1.72	0.72
9:T:132:LEU:HB2	9:T:145:VAL:HG21	1.71	0.72
9:T:190:ARG:N	9:T:215:ALA:HB1	2.00	0.72
9:U:45:LEU:CD1	9:U:63:LEU:N	2.53	0.72
9:V:147:ASN:HD22	9:V:155:ARG:HH21	1.36	0.72
3:A:516:PHE:CE2	4:B:157:LEU:CB	2.70	0.72
4:B:518:ILE:HD12	4:B:868:GLY:H	1.53	0.72
5:C:110:SER:OG	5:C:111:HIS:N	2.17	0.72
5:D:219:ASP:OD1	5:D:219:ASP:N	2.08	0.72
6:E:304:ARG:HH12	8:G:84:LEU:HD12	1.53	0.72
9:S:169:LEU:CD1	9:S:188:LEU:HD22	2.16	0.72
9:S:177:LEU:HD21	9:S:187:GLU:HG2	1.69	0.72
9:T:157:MET:N	9:T:294:TRP:CD1	2.57	0.72
9:U:77:ALA:CB	9:V:66:ARG:CZ	2.61	0.72
9:V:158:VAL:CB	9:V:281:THR:HA	2.15	0.72
3:A:30:LEU:HD21	3:A:400:ARG:CD	2.19	0.71
3:A:68:LEU:CD2	3:A:98:PRO:HD2	2.20	0.71
4:B:355:GLY:C	4:B:412:ILE:HD12	2.15	0.71
4:B:532:LYS:HG3	4:B:844:ILE:HG21	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:582:GLY:HA2	6:E:597:ALA:N	2.05	0.71
7:F:45:GLU:HG2	7:F:46:GLU:N	2.05	0.71
8:G:339:LEU:CD2	8:G:343:LEU:CG	2.62	0.71
9:T:145:VAL:HB	9:T:278:MET:HB3	1.71	0.71
9:T:195:VAL:HG21	9:T:206:VAL:HB	1.72	0.71
9:T:197:LYS:CB	9:T:200:TYR:CD2	2.71	0.71
9:T:197:LYS:HG3	9:T:200:TYR:CE2	2.25	0.71
9:T:202:MET:O	9:T:205:LEU:CD1	2.37	0.71
9:T:275:ARG:NE	9:T:276:VAL:H	1.88	0.71
9:U:172:ALA:HB1	9:U:175:HIS:NE2	2.04	0.71
9:V:197:LYS:O	9:V:203:GLN:HB3	1.90	0.71
9:V:247:LEU:HD22	9:V:251:ARG:HG3	1.71	0.71
10:Y:34:ILE:HD12	10:Y:93:VAL:HA	1.71	0.71
10:Y:58:TYR:CD1	10:Y:89:PHE:HB2	2.25	0.71
3:A:360:THR:O	3:A:363:SER:N	2.23	0.71
3:A:418:ALA:O	3:A:421:ASP:N	2.24	0.71
3:A:880:VAL:CG2	3:A:881:ASP:H	2.02	0.71
3:A:927:SER:O	3:A:928:SER:C	2.33	0.71
3:A:1003:GLN:NE2	3:A:1048:ARG:HH12	1.86	0.71
4:B:232:LEU:HD23	4:B:233:ILE:CD1	2.20	0.71
4:B:504:VAL:HG21	4:B:510:LEU:HD11	1.72	0.71
4:B:697:PRO:O	4:B:699:ALA:N	2.23	0.71
4:B:922:ILE:HG22	4:B:924:ALA:H	1.55	0.71
5:C:221:PHE:CZ	5:D:40:LEU:CD1	2.68	0.71
6:E:552:LEU:O	6:E:552:LEU:HD23	1.90	0.71
8:G:110:LEU:HD12	8:G:111:LEU:N	2.05	0.71
8:G:221:ALA:O	8:G:225:GLN:N	2.22	0.71
9:T:186:SER:HB3	9:T:213:LEU:C	2.15	0.71
9:U:40:GLU:HG2	9:U:48:PHE:CE1	2.25	0.71
9:U:155:ARG:HB2	9:U:285:LEU:HD22	1.73	0.71
9:V:127:GLY:HA2	9:V:200:TYR:HA	1.71	0.71
9:V:202:MET:HA	9:V:205:LEU:HB3	1.71	0.71
3:A:94:GLN:HA	3:A:118:ASP:HB3	1.70	0.71
3:A:97:VAL:O	3:A:114:VAL:N	2.16	0.71
3:A:360:THR:HG23	3:A:363:SER:H	1.55	0.71
3:A:384:SER:OG	3:A:385:GLN:N	2.18	0.71
3:A:552:ARG:NH2	3:A:892:ARG:HB3	2.04	0.71
3:A:596:GLY:HA3	3:A:615:PRO:HA	1.70	0.71
3:A:725:GLU:OE2	3:A:835:VAL:HA	1.89	0.71
3:A:749:ARG:NH2	3:A:750:GLN:H	1.86	0.71
3:A:1004:GLN:HG3	3:A:1005:PRO:CD	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:16:LEU:O	4:B:17:ILE:C	2.27	0.71
4:B:59:PRO:HA	4:B:112:HIS:CE1	2.24	0.71
4:B:384:ILE:HA	4:B:406:GLN:CA	2.18	0.71
4:B:1207:PHE:CG	4:B:1220:LEU:CD1	2.74	0.71
5:D:43:VAL:HG11	5:D:217:LEU:HD22	1.72	0.71
8:G:106:LYS:HD2	8:G:151:GLY:HA2	1.72	0.71
8:G:135:GLU:HB3	8:G:139:LEU:HD12	1.72	0.71
9:S:168:GLU:CB	9:S:247:LEU:HD23	2.12	0.71
9:T:157:MET:HB3	9:T:282:GLN:CB	2.21	0.71
9:U:98:HIS:HE1	9:U:203:GLN:HA	1.55	0.71
9:V:193:GLN:HB2	9:V:218:GLN:H	1.52	0.71
3:A:42:LEU:HD23	3:A:42:LEU:H	1.55	0.71
3:A:763:VAL:HG23	3:A:810:GLU:O	1.89	0.71
4:B:24:TYR:CB	4:B:29:THR:HG23	2.20	0.71
4:B:596:TYR:CD1	4:B:629:LEU:HD22	2.26	0.71
4:B:621:TYR:CD2	4:B:773:ARG:HG3	2.26	0.71
4:B:759:SER:C	4:B:761:GLN:HG2	2.15	0.71
4:B:1154:ILE:HG22	4:B:1155:ASP:O	1.90	0.71
6:E:47:TYR:N	6:E:47:TYR:CD1	2.57	0.71
6:E:412:ASP:OD1	6:E:414:SER:N	2.23	0.71
6:E:507:ILE:O	6:E:508:THR:HG23	1.90	0.71
8:G:361:THR:HG1	8:G:363:GLU:CD	1.99	0.71
9:S:105:LEU:HB2	9:S:108:VAL:HG13	1.72	0.71
9:T:144:ILE:C	9:T:278:MET:SD	2.72	0.71
9:T:163:TYR:CD1	9:T:245:SER:HB2	2.26	0.71
9:T:180:TYR:HA	9:T:188:LEU:HD23	1.67	0.71
9:T:193:GLN:HE22	9:T:239:ILE:HB	1.55	0.71
9:U:135:LEU:HD21	9:U:143:ALA:HB2	0.81	0.71
9:U:206:VAL:HG21	9:U:274:ARG:CG	2.21	0.71
9:V:175:HIS:CE1	9:V:236:GLY:HA2	2.24	0.71
9:V:282:GLN:O	9:V:285:LEU:HB2	1.90	0.71
3:A:258:ASP:HA	3:A:262:PHE:CG	2.26	0.71
3:A:559:MET:CE	3:A:982:LEU:HD12	2.21	0.71
3:A:616:THR:HG1	3:A:633:GLN:H	1.38	0.71
4:B:71:GLU:OE1	4:B:419:LYS:HG3	1.90	0.71
4:B:229:SER:CB	4:B:407:GLY:HA3	2.19	0.71
4:B:526:PRO:HB2	4:B:535:ARG:NH1	2.05	0.71
4:B:539:ILE:O	4:B:835:LEU:HD12	1.90	0.71
4:B:550:THR:HG22	4:B:551:VAL:H	1.55	0.71
4:B:593:ASP:O	4:B:597:ARG:NH1	2.22	0.71
4:B:794:GLN:CD	4:B:795:LEU:H	1.99	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:810:SER:O	4:B:813:ALA:N	2.22	0.71
5:C:63:HIS:CG	5:C:64:GLU:N	2.58	0.71
6:E:520:LEU:HD21	6:E:611:GLY:O	1.90	0.71
6:E:585:THR:HG22	6:E:592:ARG:NE	2.04	0.71
8:G:109:ASP:O	8:G:113:LEU:HG	1.90	0.71
9:S:105:LEU:HD22	9:S:297:VAL:HG22	1.71	0.71
9:S:183:VAL:HB	9:S:261:LEU:HD11	1.71	0.71
9:U:151:LEU:CD1	9:U:277:VAL:HG22	2.20	0.71
9:V:284:ARG:CZ	9:V:290:ILE:HD13	2.20	0.71
2:2:89:DT:C2'	9:T:35:GLN:NE2	2.52	0.71
3:A:68:LEU:CD1	3:A:70:HIS:NE2	2.53	0.71
3:A:372:ALA:O	3:A:375:LYS:N	2.24	0.71
3:A:607:ARG:HD2	3:A:611:SER:HA	1.72	0.71
3:A:662:ARG:HH21	3:A:663:VAL:C	1.99	0.71
3:A:929:ARG:NH1	4:B:164:ARG:HH22	1.89	0.71
4:B:596:TYR:HB3	4:B:790:LEU:HB2	1.72	0.71
4:B:707:LEU:HD23	4:B:707:LEU:H	1.56	0.71
6:E:368:LEU:HD21	6:E:455:GLN:O	1.91	0.71
8:G:140:PRO:C	8:G:144:PHE:CD2	2.68	0.71
8:G:194:ALA:O	8:G:195:ALA:C	2.33	0.71
9:S:64:LEU:HB2	9:S:68:ARG:HB2	1.71	0.71
9:T:157:MET:HB2	9:T:294:TRP:CZ3	2.25	0.71
9:T:288:PRO:CA	9:T:291:LYS:HE3	2.13	0.71
9:U:138:GLY:HA2	9:U:141:ASP:HA	0.79	0.71
9:U:144:ILE:CD1	9:U:297:VAL:HG21	2.19	0.71
9:U:157:MET:HE2	9:U:159:VAL:C	2.14	0.71
10:Y:49:LYS:HD2	10:Y:99:GLU:CD	2.16	0.71
3:A:152:GLU:O	3:A:160:THR:OG1	2.07	0.71
3:A:542:ILE:HG22	3:A:545:LEU:H	1.53	0.71
3:A:552:ARG:NH2	3:A:857:GLY:O	2.24	0.71
3:A:729:THR:HG21	3:A:775:PRO:HG3	1.71	0.71
3:A:873:TYR:HB3	3:A:879:PRO:HA	1.71	0.71
3:A:906:ALA:O	3:A:907:GLY:C	2.34	0.71
4:B:93:LYS:O	4:B:96:ASP:N	2.23	0.71
4:B:146:LEU:HD13	4:B:158:PRO:HB3	1.72	0.71
4:B:197:THR:HA	4:B:200:LEU:HB2	1.70	0.71
4:B:496:LEU:N	4:B:890:GLY:HA2	2.05	0.71
4:B:549:ALA:H	4:B:827:VAL:HG13	1.56	0.71
4:B:936:GLU:CD	4:B:937:SER:H	1.98	0.71
4:B:1156:ASP:C	4:B:1158:GLY:H	1.96	0.71
6:E:85:VAL:HA	6:E:92:GLU:HG3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:575:LYS:CB	6:E:587:LEU:HB2	2.21	0.71
8:G:80:ASP:HB3	8:G:83:ARG:HG3	1.72	0.71
9:S:148:ASN:O	9:S:149:ARG:HG3	1.90	0.71
9:S:251:ARG:HA	9:S:258:VAL:CB	2.15	0.71
9:T:42:ASP:C	9:T:43:LEU:HD12	2.15	0.71
9:V:9:PHE:CE2	9:V:59:GLY:HA3	2.26	0.71
9:V:104:TYR:HD2	9:V:302:PRO:HA	1.56	0.71
10:Y:32:LYS:CG	10:Y:33:THR:H	2.02	0.71
10:Y:36:PHE:H	10:Y:39:ASP:CG	1.99	0.71
3:A:575:GLY:HA3	3:A:915:LYS:N	2.06	0.71
3:A:662:ARG:NE	3:A:663:VAL:O	2.23	0.71
3:A:765:ALA:HA	3:A:809:GLY:H	1.54	0.71
4:B:33:ALA:CB	4:B:37:LYS:CE	2.38	0.71
4:B:149:ASP:HB3	4:B:155:ILE:H	1.55	0.71
4:B:1037:LYS:CD	4:B:1053:GLU:H	2.02	0.71
9:S:290:ILE:HG23	9:S:294:TRP:CB	2.21	0.71
9:T:126:LEU:CD1	9:T:131:ALA:HB2	2.21	0.71
9:U:296:LEU:CD1	9:U:301:ILE:H	2.03	0.71
9:V:184:PRO:O	9:V:188:LEU:CG	2.35	0.71
9:V:209:LYS:H	9:V:213:LEU:H	1.35	0.71
9:V:282:GLN:HE21	9:V:283:ASP:H	1.37	0.71
3:A:140:GLN:NE2	3:A:140:GLN:O	2.24	0.71
3:A:173:LEU:HG	3:A:187:ILE:HD12	1.73	0.71
3:A:601:VAL:CG2	3:A:606:ILE:HD12	2.20	0.71
3:A:699:GLU:N	3:A:699:GLU:CD	2.46	0.71
3:A:725:GLU:OE2	3:A:836:VAL:N	2.21	0.71
3:A:763:VAL:HG22	3:A:812:GLY:O	1.91	0.71
3:A:1004:GLN:NE2	3:A:1042:SER:HA	2.06	0.71
4:B:283:ARG:NE	4:B:297:HIS:O	2.24	0.71
4:B:677:LYS:NZ	4:B:682:ARG:HD2	2.06	0.71
4:B:802:GLU:HG2	4:B:803:GLY:H	1.56	0.71
4:B:821:ASP:HB2	4:B:828:GLN:HA	1.72	0.71
4:B:906:ALA:O	4:B:964:VAL:HB	1.91	0.71
5:C:74:ASP:C	5:C:78:ILE:HG12	2.14	0.71
5:C:221:PHE:HE1	5:D:36:VAL:CA	2.02	0.71
6:E:78:ARG:CG	8:G:346:GLY:CA	2.69	0.71
6:E:376:PRO:HB2	6:E:451:GLY:O	1.90	0.71
9:T:209:LYS:HZ2	9:T:274:ARG:N	1.88	0.71
9:U:146:MET:N	9:U:202:MET:CG	2.46	0.71
10:X:49:LYS:HG2	10:X:71:GLU:HB2	1.71	0.71
10:X:166:ASP:OD2	10:X:204:SER:HB2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:135:ARG:HD3	3:A:386:PHE:CE1	2.25	0.71
3:A:365:VAL:O	3:A:367:PRO:HD3	1.91	0.71
3:A:386:PHE:HB3	3:A:646:ASN:HD22	1.56	0.71
3:A:415:ALA:O	3:A:419:VAL:HG21	1.89	0.71
3:A:546:GLU:OE2	3:A:547:HIS:CE1	2.44	0.71
3:A:572:PRO:HA	3:A:978:TYR:CE1	2.25	0.71
3:A:588:MET:SD	3:A:651:LEU:CD1	2.79	0.71
3:A:591:VAL:HA	3:A:668:VAL:HA	1.73	0.71
3:A:1085:ALA:CB	6:E:13:LYS:HE2	2.20	0.71
4:B:242:ARG:CD	4:B:1138:ASP:OD2	2.39	0.71
4:B:439:GLU:C	4:B:1000:GLU:HA	2.16	0.71
4:B:523:VAL:HA	4:B:538:GLU:O	1.91	0.71
4:B:1001:ARG:HG2	4:B:1002:ALA:H	1.55	0.71
4:B:1034:GLY:H	4:B:1053:GLU:HA	1.56	0.71
4:B:1129:TYR:CD2	4:B:1136:ILE:HG23	2.26	0.71
6:E:151:GLY:N	6:E:182:GLN:HG2	2.05	0.71
7:F:45:GLU:N	7:F:45:GLU:OE1	2.24	0.71
8:G:339:LEU:HA	8:G:343:LEU:HD23	1.71	0.71
9:T:145:VAL:N	9:T:278:MET:SD	2.64	0.71
9:T:206:VAL:HA	9:T:209:LYS:HB2	1.72	0.71
9:U:45:LEU:CD1	9:U:62:ARG:C	2.62	0.71
9:U:146:MET:SD	9:U:205:LEU:HD13	2.31	0.71
9:U:154:GLY:C	9:U:155:ARG:HG3	2.15	0.71
10:X:58:TYR:CD1	10:X:89:PHE:HB2	2.25	0.71
10:X:104:PRO:HG2	10:X:106:GLU:HG3	1.73	0.71
10:Y:50:GLY:O	10:Y:71:GLU:N	2.24	0.71
3:A:410:LEU:HB3	3:A:415:ALA:HB2	1.72	0.70
3:A:601:VAL:HG21	3:A:657:VAL:O	1.90	0.70
3:A:703:LEU:HB3	3:A:883:VAL:CG2	2.18	0.70
4:B:488:TYR:CE2	4:B:899:VAL:HG11	2.25	0.70
4:B:524:ARG:HH12	4:B:818:LEU:HD22	1.53	0.70
4:B:1245:ILE:HD12	4:B:1246:PRO:O	1.91	0.70
5:C:197:GLU:CD	5:C:199:TRP:HE1	2.00	0.70
6:E:457:HIS:O	6:E:458:PRO:C	2.30	0.70
7:F:28:ARG:O	7:F:31:ILE:N	2.24	0.70
7:F:40:LYS:HG3	7:F:41:ARG:N	2.05	0.70
7:F:59:LEU:HD12	7:F:60:ARG:N	2.06	0.70
9:S:200:TYR:HE2	9:S:202:MET:CG	2.03	0.70
9:T:163:TYR:OH	9:T:243:PRO:HG2	1.91	0.70
9:U:40:GLU:CA	9:U:46:GLU:OE2	2.37	0.70
9:V:284:ARG:NE	9:V:290:ILE:HD13	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:111:ALA:HB2	10:Y:118:LEU:HB2	1.72	0.70
10:Y:148:ARG:HH22	10:Y:183:ILE:HD13	1.54	0.70
3:A:47:ILE:HA	3:A:50:LEU:HD11	1.74	0.70
3:A:238:LEU:C	3:A:242:LEU:HB3	2.16	0.70
4:B:374:GLU:O	4:B:416:GLN:NE2	2.20	0.70
4:B:703:ARG:NH2	4:B:714:LEU:HA	2.05	0.70
4:B:821:ASP:CG	4:B:829:ARG:HG3	2.15	0.70
4:B:1035:GLU:HA	4:B:1074:GLY:HA2	1.73	0.70
5:C:19:HIS:CD2	5:C:19:HIS:H	2.07	0.70
5:C:81:ARG:NH1	5:C:126:TYR:HE2	1.89	0.70
5:C:141:ARG:NE	5:C:155:ARG:HD2	2.06	0.70
5:C:217:LEU:C	5:C:219:ASP:OD1	2.34	0.70
5:D:178:TYR:HA	5:D:196:LEU:HB2	1.71	0.70
5:D:217:LEU:C	5:D:219:ASP:OD1	2.34	0.70
6:E:346:ARG:CZ	6:E:350:LEU:CD2	2.65	0.70
6:E:444:PHE:CA	6:E:492:LEU:CD1	2.69	0.70
6:E:548:GLU:HG3	6:E:549:GLN:N	2.06	0.70
9:S:81:LEU:CA	9:T:44:GLY:HA2	2.21	0.70
9:S:208:GLU:O	9:S:211:GLU:N	2.22	0.70
9:T:97:ILE:HG22	9:T:100:LEU:HD13	1.69	0.70
9:T:151:LEU:HD22	9:T:159:VAL:HB	1.72	0.70
9:T:163:TYR:HD1	9:T:245:SER:HB2	1.55	0.70
9:T:196:PHE:CE2	9:T:200:TYR:CG	2.63	0.70
9:U:40:GLU:CG	9:U:46:GLU:HG2	2.13	0.70
9:U:207:GLN:HA	9:U:210:PHE:CD2	2.26	0.70
9:V:285:LEU:HD13	9:V:290:ILE:HG13	1.72	0.70
10:X:46:PHE:HB3	10:X:101:LEU:HB2	1.73	0.70
10:Y:40:PRO:HA	10:Y:88:ARG:CZ	2.22	0.70
3:A:173:LEU:CG	3:A:187:ILE:HD12	2.21	0.70
3:A:472:ARG:HD3	3:A:500:ASN:HB2	1.73	0.70
3:A:684:GLN:NE2	3:A:714:TYR:HE1	1.90	0.70
3:A:905:TRP:O	3:A:906:ALA:C	2.33	0.70
3:A:959:VAL:O	3:A:959:VAL:CG1	2.39	0.70
4:B:120:ASN:O	4:B:124:MET:HG3	1.92	0.70
4:B:1249:THR:CG2	4:B:1253:THR:OG1	2.39	0.70
5:C:99:LEU:CD2	5:C:112:PHE:HA	2.07	0.70
6:E:140:VAL:CG1	6:E:307:GLN:HG2	2.20	0.70
6:E:537:SER:HB3	6:E:558:VAL:HG12	1.71	0.70
8:G:307:GLU:OE1	8:G:312:GLN:N	2.24	0.70
8:G:355:GLY:O	8:G:361:THR:N	2.24	0.70
9:T:156:ASP:CG	9:T:291:LYS:HG2	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:177:LEU:HD21	9:T:239:ILE:HD13	0.85	0.70
9:U:204:ARG:CA	9:U:207:GLN:CG	2.37	0.70
9:V:147:ASN:HD21	9:V:155:ARG:NH2	1.84	0.70
9:V:167:ILE:HB	9:V:209:LYS:NZ	2.06	0.70
3:A:393:LEU:HD23	3:A:393:LEU:C	2.16	0.70
3:A:1016:ARG:HH12	6:E:353:ARG:NH2	1.89	0.70
4:B:3:PHE:C	4:B:3:PHE:CD1	2.69	0.70
4:B:93:LYS:HE2	4:B:96:ASP:OD2	1.92	0.70
4:B:286:LEU:HA	4:B:1146:ARG:CG	2.21	0.70
4:B:503:ARG:HB2	4:B:883:ILE:HD13	1.73	0.70
4:B:575:ARG:H	4:B:589:ALA:CA	2.04	0.70
4:B:1226:GLU:CG	6:E:233:ASN:HB3	2.21	0.70
5:C:64:GLU:CG	5:C:164:LEU:HD22	2.21	0.70
5:D:145:GLY:C	5:D:170:PHE:HE2	2.00	0.70
6:E:372:GLN:HB2	6:E:445:GLU:O	1.92	0.70
9:S:146:MET:HE2	9:S:201:GLY:O	1.92	0.70
9:S:175:HIS:HB3	9:S:178:ALA:H	1.56	0.70
9:S:185:TRP:CE2	9:S:213:LEU:CD1	2.73	0.70
9:T:194:VAL:HG12	9:T:195:VAL:N	2.06	0.70
9:T:196:PHE:CD2	9:T:197:LYS:N	2.59	0.70
9:V:105:LEU:CD1	9:V:109:LEU:HD21	2.21	0.70
9:V:161:VAL:H	9:V:298:ARG:HA	1.56	0.70
10:X:40:PRO:HA	10:X:88:ARG:CZ	2.21	0.70
10:Y:212:VAL:HG13	10:Y:218:LEU:CD2	2.14	0.70
3:A:159:ARG:NH1	3:A:160:THR:O	2.25	0.70
3:A:165:LEU:O	3:A:166:ILE:HG13	1.92	0.70
3:A:704:ILE:HG13	3:A:705:SER:H	1.55	0.70
3:A:725:GLU:CD	3:A:835:VAL:HA	2.17	0.70
3:A:898:VAL:HG23	3:A:899:PHE:N	2.05	0.70
3:A:959:VAL:CG2	3:A:972:VAL:HB	2.20	0.70
3:A:1084:ILE:HG13	3:A:1086:VAL:HG22	1.74	0.70
4:B:8:VAL:HG11	6:E:615:TYR:CE2	2.26	0.70
4:B:444:ASP:HA	4:B:996:LEU:CD2	2.22	0.70
4:B:621:TYR:CE1	4:B:774:LEU:HB3	2.26	0.70
4:B:694:VAL:HG11	4:B:730:SER:HB2	1.73	0.70
4:B:880:GLU:HG2	4:B:901:ARG:HD2	0.70	0.70
4:B:896:ARG:CD	4:B:986:ASP:CB	2.69	0.70
4:B:1106:VAL:O	4:B:1110:ALA:CB	2.40	0.70
4:B:1128:VAL:C	4:B:1131:SER:HB2	2.16	0.70
5:C:42:ARG:CZ	5:D:35:THR:HG22	2.21	0.70
6:E:43:GLU:HG3	6:E:44:THR:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:108:LEU:HD21	6:E:249:ILE:HD11	1.72	0.70
6:E:171:GLU:N	6:E:171:GLU:CD	2.47	0.70
9:S:128:SER:OG	9:S:145:VAL:CG1	2.40	0.70
9:S:132:LEU:HA	9:S:150:PHE:CB	2.22	0.70
9:S:132:LEU:HD23	9:S:150:PHE:H	1.57	0.70
9:T:95:ALA:HB2	9:T:140:VAL:HG11	1.73	0.70
9:V:105:LEU:HB3	9:V:106:PRO:HD3	1.71	0.70
9:V:188:LEU:HD12	9:V:189:VAL:CG1	2.18	0.70
9:V:188:LEU:HD22	9:V:261:LEU:HD11	1.72	0.70
9:V:210:PHE:CD1	9:V:215:ALA:HB3	2.25	0.70
10:X:50:GLY:O	10:X:71:GLU:N	2.24	0.70
10:X:126:LEU:CD2	10:Y:126:LEU:HD11	2.17	0.70
10:Y:58:TYR:CE1	10:Y:89:PHE:HB2	2.26	0.70
1:1:15:DA:H1'	1:1:16:DA:H5'	1.74	0.70
3:A:104:LYS:HD2	4:B:559:ARG:NH1	2.06	0.70
3:A:433:ILE:CG2	3:A:539:THR:CG2	2.70	0.70
3:A:620:LYS:HG3	3:A:629:SER:HB2	1.74	0.70
3:A:1057:LYS:HG3	3:A:1059:LYS:CG	2.21	0.70
4:B:126:ALA:O	4:B:128:SER:N	2.25	0.70
4:B:160:LYS:HD3	4:B:171:GLU:CD	2.14	0.70
4:B:331:THR:OG1	4:B:332:MET:N	2.24	0.70
4:B:438:THR:HG22	4:B:1000:GLU:C	2.16	0.70
4:B:479:LEU:HA	4:B:973:ARG:HA	1.74	0.70
4:B:549:ALA:H	4:B:827:VAL:CG1	2.04	0.70
5:D:45:LEU:HB2	5:D:171:MET:SD	2.31	0.70
6:E:86:CYS:O	6:E:87:GLU:C	2.35	0.70
6:E:191:GLU:C	6:E:194:LEU:HG	2.12	0.70
7:F:66:SER:O	7:F:69:LEU:N	2.22	0.70
8:G:228:THR:C	8:G:229:ILE:HD12	2.17	0.70
9:T:209:LYS:CE	9:T:212:ARG:CZ	2.67	0.70
9:U:208:GLU:C	9:U:212:ARG:CG	2.58	0.70
9:V:9:PHE:CB	9:V:36:ILE:HD11	2.20	0.70
9:V:88:LYS:CE	9:V:91:GLU:HG3	2.20	0.70
3:A:320:LEU:CG	3:A:483:ASP:OD1	2.40	0.70
3:A:581:GLN:CD	3:A:582:GLY:H	1.98	0.70
3:A:618:SER:OG	3:A:662:ARG:NH1	2.25	0.70
4:B:168:THR:OG1	4:B:169:VAL:N	2.24	0.70
4:B:241:GLY:C	4:B:301:TRP:H	2.00	0.70
4:B:627:GLY:CA	4:B:745:ALA:HA	2.21	0.70
4:B:1218:ARG:CD	6:E:122:PRO:HG2	2.06	0.70
6:E:78:ARG:CD	8:G:346:GLY:C	2.65	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:197:LEU:HD13	6:E:242:GLU:HA	1.72	0.70
6:E:286:LEU:HD23	6:E:287:ALA:N	2.06	0.70
6:E:585:THR:HG23	6:E:594:ARG:HA	1.72	0.70
8:G:103:LEU:CD2	8:G:154:ALA:HB1	2.22	0.70
8:G:104:ALA:HB2	8:G:200:HIS:CD2	2.26	0.70
8:G:361:THR:OG1	8:G:363:GLU:OE1	2.09	0.70
9:S:81:LEU:CD2	9:S:86:ALA:HA	2.22	0.70
9:T:108:VAL:HG22	9:T:296:LEU:HD12	1.73	0.70
9:T:135:LEU:HD13	9:T:278:MET:CE	2.21	0.70
9:U:12:ILE:HG21	9:U:18:PHE:CD1	2.27	0.70
9:U:206:VAL:HG11	9:U:274:ARG:NH1	2.05	0.70
3:A:130:ILE:HG13	3:A:131:ASN:O	1.92	0.70
3:A:148:TYR:HA	3:A:149:TYR:CD1	2.25	0.70
3:A:566:LEU:O	3:A:568:LYS:N	2.24	0.70
4:B:16:LEU:HD23	4:B:17:ILE:N	2.07	0.70
4:B:41:PHE:O	4:B:42:ARG:C	2.33	0.70
4:B:208:ILE:HD13	4:B:210:ARG:NH2	2.05	0.70
4:B:366:ARG:HH21	4:B:377:LEU:HD22	1.57	0.70
4:B:1218:ARG:CZ	6:E:122:PRO:CG	2.68	0.70
8:G:86:LEU:O	8:G:88:GLU:N	2.24	0.70
8:G:173:TYR:HB2	8:G:183:LEU:HD21	1.72	0.70
9:S:157:MET:CB	9:U:20:LYS:NZ	2.55	0.70
9:T:183:VAL:HG11	9:T:187:GLU:HB2	1.73	0.70
9:T:205:LEU:HD12	9:T:206:VAL:CA	2.21	0.70
9:U:105:LEU:HA	9:U:301:ILE:O	1.92	0.70
9:U:176:PRO:HG3	9:U:191:TYR:CG	2.26	0.70
9:U:288:PRO:CD	9:U:291:LYS:HE2	2.21	0.70
10:X:120:MET:O	10:X:124:ARG:HG3	1.92	0.70
1:1:46:DA:C2'	1:1:47:DT:C7	2.69	0.70
3:A:30:LEU:HD13	3:A:400:ARG:NH1	2.07	0.70
3:A:350:ARG:HH12	3:A:366:ASN:H	1.39	0.70
3:A:697:ASN:HA	3:A:701:ALA:CB	2.20	0.70
3:A:738:ARG:HD3	3:A:755:GLY:H	1.55	0.70
3:A:897:GLN:N	3:A:897:GLN:CD	2.47	0.70
3:A:1004:GLN:NE2	3:A:1005:PRO:HD3	2.07	0.70
4:B:34:ASP:CG	6:E:370:ILE:CD1	2.64	0.70
4:B:418:VAL:O	4:B:419:LYS:HD3	1.91	0.70
4:B:1052:ILE:HD12	4:B:1076:VAL:HG21	1.74	0.70
5:D:112:PHE:CD2	5:D:113:ASP:N	2.60	0.70
5:D:173:VAL:HG23	5:D:199:TRP:O	1.92	0.70
6:E:106:ILE:HD13	6:E:279:VAL:HG22	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:398:VAL:CG1	6:E:404:ALA:CA	2.62	0.70
8:G:259:GLU:OE1	8:G:260:GLU:N	2.25	0.70
9:S:183:VAL:N	9:S:261:LEU:HD13	2.07	0.70
9:S:188:LEU:HD11	9:S:210:PHE:CD1	2.26	0.70
9:S:244:SER:O	9:S:247:LEU:N	2.24	0.70
9:T:146:MET:CE	9:T:205:LEU:HB2	2.07	0.70
9:V:93:CYS:O	9:V:94:ILE:CD1	2.39	0.70
3:A:161:TYR:C	3:A:162:SER:HG	1.97	0.70
3:A:598:VAL:CG2	3:A:601:VAL:HB	2.21	0.70
4:B:146:LEU:CG	4:B:154:ILE:CD1	2.70	0.70
4:B:245:GLY:HA2	4:B:260:ARG:HA	1.72	0.70
4:B:443:LYS:HB2	4:B:997:LEU:CB	2.22	0.70
4:B:503:ARG:HH12	4:B:505:GLU:HG2	1.56	0.70
4:B:701:ILE:HG23	4:B:704:ASP:CB	2.22	0.70
5:D:63:HIS:CG	5:D:64:GLU:N	2.58	0.70
6:E:31:PRO:CA	6:E:33:GLY:H	2.04	0.70
6:E:45:ILE:O	6:E:45:ILE:HG13	1.88	0.70
6:E:412:ASP:OD2	6:E:414:SER:N	2.20	0.70
6:E:551:ASP:HB3	6:E:554:ALA:HB2	1.72	0.70
8:G:88:GLU:N	8:G:88:GLU:CD	2.47	0.70
8:G:195:ALA:O	8:G:198:PHE:N	2.24	0.70
9:S:213:LEU:HD23	9:S:266:LEU:CD1	2.22	0.70
9:U:70:ILE:HD12	9:V:70:ILE:CG2	2.21	0.70
9:U:144:ILE:HD11	9:U:297:VAL:HG21	1.71	0.70
9:U:157:MET:HE1	9:U:159:VAL:O	1.91	0.70
10:X:52:VAL:HG21	10:X:94:ALA:HA	1.73	0.70
10:X:56:ARG:NH1	10:X:58:TYR:H	1.90	0.70
10:X:204:SER:HB3	10:X:209:LYS:HB2	1.74	0.70
10:Y:52:VAL:HG21	10:Y:94:ALA:HA	1.74	0.70
3:A:274:ARG:HH12	3:A:287:ASP:HB2	1.56	0.69
3:A:571:ARG:HG3	3:A:572:PRO:O	1.92	0.69
3:A:674:SER:HB3	3:A:681:ALA:HB3	1.72	0.69
3:A:747:ALA:O	3:A:749:ARG:N	2.25	0.69
3:A:1016:ARG:HE	3:A:1017:PHE:H	1.39	0.69
3:A:1087:HIS:HD2	3:A:1094:ASP:HB2	1.57	0.69
4:B:94:VAL:O	4:B:97:THR:HB	1.92	0.69
4:B:439:GLU:HA	4:B:1067:GLN:HE22	1.57	0.69
4:B:520:GLY:O	4:B:541:THR:HG21	1.91	0.69
4:B:581:LYS:HD2	4:B:816:ILE:CG2	2.22	0.69
4:B:1229:SER:CA	6:E:13:LYS:HA	2.21	0.69
5:C:163:PHE:C	5:C:164:LEU:HD12	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:148:TYR:CD1	5:D:148:TYR:O	2.45	0.69
9:S:70:ILE:HG21	9:T:70:ILE:HD12	1.73	0.69
9:S:205:LEU:HD21	9:S:274:ARG:N	2.01	0.69
9:T:157:MET:N	9:T:282:GLN:HB3	2.07	0.69
9:T:235:GLN:NE2	9:T:238:LEU:O	2.24	0.69
9:U:298:ARG:H	9:U:302:PRO:CG	2.00	0.69
9:V:128:SER:CB	9:V:204:ARG:CD	2.64	0.69
9:V:242:LEU:HD22	9:V:246:ALA:HB1	1.72	0.69
10:X:47:LEU:HB3	10:X:69:LEU:CD2	2.21	0.69
3:A:165:LEU:HB3	3:A:173:LEU:HB2	1.74	0.69
3:A:463:PHE:CD1	3:A:526:TYR:CE1	2.79	0.69
3:A:698:TYR:CD2	3:A:699:GLU:OE2	2.45	0.69
3:A:702:ILE:O	3:A:862:ILE:HA	1.91	0.69
3:A:933:HIS:O	3:A:936:LEU:HB2	1.91	0.69
4:B:15:ASN:O	4:B:16:LEU:C	2.31	0.69
4:B:51:ILE:HA	4:B:55:ASP:OD2	1.92	0.69
4:B:412:ILE:CD1	4:B:424:LEU:HD13	2.22	0.69
6:E:419:LEU:CD2	6:E:423:ILE:HG21	2.18	0.69
6:E:434:PRO:HG2	6:E:436:LEU:CD2	2.22	0.69
7:F:42:ARG:N	7:F:42:ARG:HD2	2.06	0.69
7:F:63:ILE:O	7:F:66:SER:OG	2.02	0.69
9:T:202:MET:CG	9:T:205:LEU:HD21	2.21	0.69
9:U:142:LEU:CD1	9:U:278:MET:CE	2.61	0.69
9:V:182:ARG:C	9:V:184:PRO:HD3	2.17	0.69
9:V:196:PHE:HB3	9:V:200:TYR:CE2	2.26	0.69
9:V:210:PHE:CD2	9:V:217:LEU:HA	2.26	0.69
9:V:217:LEU:O	9:V:217:LEU:HG	1.91	0.69
9:V:232:VAL:CG2	9:V:238:LEU:CD2	2.67	0.69
9:V:284:ARG:HH21	9:V:290:ILE:HD12	1.51	0.69
10:X:212:VAL:HG21	10:X:217:THR:CG2	2.21	0.69
10:X:212:VAL:HG21	10:X:217:THR:OG1	1.92	0.69
10:Y:56:ARG:NH1	10:Y:58:TYR:H	1.90	0.69
2:2:97:DG:O5'	9:S:155:ARG:NE	2.24	0.69
3:A:309:TYR:CD2	3:A:311:ILE:HD11	2.27	0.69
3:A:423:HIS:HD2	3:A:425:SER:OG	1.75	0.69
3:A:547:HIS:NE2	4:B:165:GLU:O	2.25	0.69
3:A:656:LEU:HB3	3:A:669:LEU:O	1.92	0.69
4:B:37:LYS:O	6:E:513:MET:SD	2.50	0.69
4:B:235:LEU:CD1	4:B:239:LEU:HD11	2.04	0.69
4:B:384:ILE:HG22	4:B:384:ILE:O	1.93	0.69
4:B:479:LEU:CD1	4:B:481:TRP:HZ2	1.99	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:623:VAL:HG21	4:B:772:GLN:HB2	1.74	0.69
4:B:941:VAL:HG13	4:B:965:THR:HB	1.74	0.69
5:C:94:ALA:O	5:C:95:GLN:NE2	2.25	0.69
5:D:197:GLU:CD	5:D:199:TRP:HE1	2.00	0.69
6:E:18:SER:OG	6:E:20:GLU:OE2	2.10	0.69
6:E:40:THR:C	6:E:280:ILE:HD11	2.16	0.69
6:E:43:GLU:OE2	6:E:44:THR:N	2.24	0.69
6:E:78:ARG:HH11	8:G:346:GLY:HA3	1.56	0.69
6:E:279:VAL:HG13	6:E:280:ILE:N	2.05	0.69
6:E:385:GLN:HE22	6:E:408:ILE:HD11	1.54	0.69
8:G:114:GLU:CA	8:G:117:ARG:HG3	2.14	0.69
8:G:233:VAL:N	8:G:236:TYR:CE2	2.60	0.69
9:S:213:LEU:CD2	9:S:266:LEU:HG	2.22	0.69
9:T:37:GLN:NE2	9:T:48:PHE:HE1	1.88	0.69
10:X:40:PRO:HA	10:X:88:ARG:NH2	2.07	0.69
10:X:111:ALA:HB2	10:X:118:LEU:HB2	1.72	0.69
10:X:198:ARG:HA	10:X:203:ILE:HG12	1.74	0.69
3:A:100:ARG:HH21	3:A:111:GLU:HG3	1.58	0.69
3:A:147:VAL:O	3:A:147:VAL:HG13	1.91	0.69
3:A:594:THR:HG22	3:A:595:ASP:HB2	1.73	0.69
3:A:869:GLU:HG3	5:C:42:ARG:HG2	1.75	0.69
3:A:902:LEU:O	3:A:903:LEU:C	2.33	0.69
4:B:6:ARG:CD	6:E:565:GLU:OE2	2.40	0.69
4:B:95:ILE:CD1	4:B:154:ILE:HG21	2.22	0.69
6:E:480:SER:HG	6:E:482:GLU:CD	2.00	0.69
8:G:378:HIS:NE2	10:X:58:TYR:O	2.24	0.69
9:T:30:SER:CB	9:T:33:SER:OG	2.39	0.69
9:T:95:ALA:HB1	9:T:126:LEU:HD12	1.74	0.69
9:T:292:HIS:CD2	9:T:295:GLN:HE22	2.09	0.69
9:U:66:ARG:HB2	9:V:73:GLU:OE1	1.92	0.69
9:U:92:LEU:HD22	9:U:290:ILE:CD1	2.19	0.69
9:U:98:HIS:HE1	9:U:203:GLN:CA	2.06	0.69
9:V:150:PHE:CZ	9:V:277:VAL:HG11	2.27	0.69
10:X:69:LEU:HD22	10:X:129:ARG:HD2	1.72	0.69
10:Y:40:PRO:HA	10:Y:88:ARG:NH2	2.07	0.69
10:Y:148:ARG:NH2	10:Y:183:ILE:CB	2.54	0.69
1:1:113:DT:C7	3:A:414:ARG:NE	2.54	0.69
3:A:593:ARG:NH2	3:A:635:ILE:HG23	2.07	0.69
3:A:727:ARG:NH2	8:G:278:LYS:HZ1	1.91	0.69
3:A:822:ARG:NH1	3:A:828:LEU:HD21	2.08	0.69
3:A:1035:GLN:O	3:A:1039:THR:HG23	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1039:THR:OG1	3:A:1040:VAL:HG22	1.92	0.69
4:B:10:LYS:HD3	4:B:14:ARG:CZ	2.22	0.69
4:B:281:VAL:CG1	4:B:282:VAL:H	2.04	0.69
4:B:1082:PRO:HB2	4:B:1085:ASP:HA	1.73	0.69
6:E:111:PRO:HB2	6:E:194:LEU:HD22	1.75	0.69
6:E:112:VAL:O	6:E:246:MET:N	2.21	0.69
6:E:338:ILE:HG22	6:E:345:PHE:H	1.57	0.69
8:G:212:TRP:O	8:G:213:TRP:C	2.34	0.69
9:S:155:ARG:CD	9:S:282:GLN:HE21	2.05	0.69
9:S:208:GLU:HB3	9:S:267:PRO:CB	2.22	0.69
9:S:213:LEU:HD21	9:S:266:LEU:HG	1.72	0.69
9:T:205:LEU:C	9:T:209:LYS:HG2	2.16	0.69
9:U:164:ASP:OD1	9:U:164:ASP:N	2.25	0.69
9:V:169:LEU:HD21	9:V:239:ILE:CG2	2.22	0.69
9:V:292:HIS:HD2	9:V:296:LEU:CG	2.04	0.69
3:A:397:THR:HB	3:A:537:VAL:HG21	1.73	0.69
3:A:542:ILE:HG21	3:A:545:LEU:CA	2.23	0.69
3:A:592:SER:O	3:A:592:SER:OG	2.06	0.69
3:A:707:ARG:HH21	3:A:881:ASP:CB	2.04	0.69
4:B:442:VAL:HA	4:B:998:VAL:CA	2.22	0.69
6:E:105:TYR:HE1	6:E:250:PRO:CA	1.75	0.69
6:E:545:PHE:C	6:E:547:GLN:N	2.48	0.69
8:G:86:LEU:C	8:G:88:GLU:N	2.45	0.69
9:S:162:LEU:O	9:S:163:TYR:CG	2.45	0.69
9:S:168:GLU:N	9:S:168:GLU:OE2	2.25	0.69
9:S:278:MET:CA	9:S:294:TRP:HZ2	2.05	0.69
9:T:175:HIS:NE2	9:T:177:LEU:CD2	2.56	0.69
9:T:193:GLN:NE2	9:T:239:ILE:C	2.50	0.69
9:U:142:LEU:HD22	9:U:294:TRP:CG	2.28	0.69
10:X:58:TYR:CE1	10:X:89:PHE:HB2	2.26	0.69
10:X:133:THR:HG22	10:X:137:ILE:CG1	2.23	0.69
10:Y:148:ARG:HH22	10:Y:183:ILE:CB	2.04	0.69
1:1:22:DG:H4'	2:2:106:DT:O3'	1.93	0.69
3:A:51:ASN:O	3:A:54:SER:HB2	1.92	0.69
3:A:100:ARG:NH2	3:A:111:GLU:HG3	2.07	0.69
3:A:450:HIS:HD2	3:A:533:GLN:HG3	1.57	0.69
4:B:394:SER:OG	4:B:395:GLU:N	2.22	0.69
4:B:510:LEU:CD2	4:B:877:LEU:HA	2.21	0.69
4:B:563:LEU:HD23	4:B:573:ASN:CA	1.97	0.69
5:D:108:THR:O	5:D:108:THR:OG1	2.04	0.69
8:G:227:ARG:C	8:G:229:ILE:H	2.00	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:292:LYS:H	8:G:292:LYS:HD2	1.58	0.69
9:T:191:TYR:O	9:T:193:GLN:HG2	1.92	0.69
9:T:230:ARG:HD2	9:V:249:GLU:OE2	1.90	0.69
9:U:126:LEU:CD2	9:U:140:VAL:HG21	2.21	0.69
9:V:147:ASN:HA	9:V:150:PHE:CE1	2.28	0.69
10:X:33:THR:HA	10:X:91:HIS:CE1	2.28	0.69
10:X:36:PHE:H	10:X:39:ASP:CG	1.99	0.69
1:1:12:DT:C5	2:2:114:DA:N1	2.61	0.69
2:2:61:DT:O4	10:Y:187:ARG:HG3	1.93	0.69
3:A:48:GLU:N	3:A:48:GLU:OE1	2.26	0.69
3:A:144:SER:HB2	3:A:324:ARG:HE	1.58	0.69
3:A:166:ILE:HG12	3:A:172:TRP:CE2	2.27	0.69
3:A:662:ARG:NE	3:A:663:VAL:H	1.91	0.69
3:A:690:TYR:O	3:A:691:MET:HG2	1.92	0.69
3:A:767:ASP:HB2	3:A:806:VAL:HG12	1.74	0.69
3:A:933:HIS:HA	3:A:936:LEU:CD1	2.22	0.69
3:A:993:ARG:CD	3:A:1012:GLN:CB	2.71	0.69
3:A:1019:GLU:HA	3:A:1022:VAL:HG13	1.74	0.69
3:A:1027:ALA:CB	6:E:438:ARG:HH11	2.06	0.69
4:B:7:VAL:HG12	4:B:8:VAL:N	2.06	0.69
4:B:25:GLY:CA	4:B:28:ARG:NH2	2.56	0.69
4:B:52:SER:H	4:B:55:ASP:CB	2.05	0.69
4:B:169:VAL:HG23	4:B:170:THR:HG23	1.74	0.69
4:B:483:LEU:HA	4:B:969:GLY:HA2	1.75	0.69
4:B:501:GLY:H	4:B:885:ARG:CA	1.99	0.69
4:B:513:THR:HG21	4:B:515:LEU:HG	1.66	0.69
4:B:636:THR:HG22	4:B:685:VAL:HG13	1.75	0.69
4:B:694:VAL:HG12	4:B:735:ALA:C	2.17	0.69
4:B:908:LEU:HD23	4:B:964:VAL:HG21	1.74	0.69
4:B:973:ARG:HG2	4:B:974:VAL:N	2.08	0.69
4:B:1049:ILE:CG2	4:B:1064:GLY:N	2.55	0.69
4:B:1129:TYR:C	4:B:1130:GLN:NE2	2.49	0.69
5:C:40:LEU:O	5:C:41:ARG:C	2.36	0.69
5:C:102:ASN:HD22	5:C:135:LYS:H	1.40	0.69
5:C:108:THR:O	5:C:108:THR:OG1	2.05	0.69
5:D:7:GLU:O	5:D:9:VAL:HG13	1.93	0.69
5:D:94:ALA:O	5:D:95:GLN:NE2	2.25	0.69
5:D:201:ASN:HD21	5:D:203:SER:CB	2.06	0.69
6:E:50:LEU:N	6:E:51:LYS:NZ	2.36	0.69
6:E:117:TYR:N	6:E:117:TYR:CD1	2.61	0.69
6:E:140:VAL:HG13	6:E:307:GLN:HG2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:415:VAL:CG1	6:E:416:TRP:HD1	2.06	0.69
6:E:458:PRO:HG2	6:E:459:LEU:N	2.08	0.69
6:E:570:ASP:HB3	6:E:591:ARG:HE	1.56	0.69
9:S:49:HIS:CG	9:S:52:ASN:HB2	2.28	0.69
9:S:57:THR:CG2	9:S:58:LEU:H	1.99	0.69
9:S:218:GLN:O	9:S:220:ALA:N	2.24	0.69
9:S:295:GLN:O	9:S:298:ARG:HG2	1.92	0.69
9:T:105:LEU:HD13	9:T:300:ASN:CB	2.22	0.69
9:T:142:LEU:CD1	9:T:293:PHE:HE2	2.05	0.69
9:T:170:LEU:HD13	9:T:229:PHE:CE1	2.27	0.69
9:V:184:PRO:C	9:V:188:LEU:CD2	2.65	0.69
9:V:196:PHE:CD1	9:V:223:VAL:O	2.46	0.69
9:V:209:LYS:NZ	9:V:241:LEU:CD2	2.46	0.69
10:Y:47:LEU:CA	10:Y:100:LEU:HG	2.11	0.69
10:Y:83:GLY:H	10:Y:86:SER:HG	1.40	0.69
3:A:258:ASP:HA	3:A:262:PHE:CD2	2.28	0.69
3:A:599:VAL:H	3:A:607:ARG:NH2	1.91	0.69
3:A:653:GLN:HA	3:A:672:GLY:CA	2.06	0.69
3:A:1038:LEU:N	3:A:1038:LEU:CD2	2.55	0.69
4:B:365:THR:HA	4:B:376:ALA:CB	2.23	0.69
4:B:922:ILE:HG21	4:B:928:LEU:HD11	1.74	0.69
4:B:1218:ARG:NE	6:E:122:PRO:CD	2.53	0.69
5:D:44:LEU:HD21	5:D:198:VAL:HG11	1.75	0.69
6:E:237:THR:HG23	6:E:238:GLY:N	2.08	0.69
8:G:333:GLU:OE1	8:G:368:ILE:HG23	1.93	0.69
9:S:64:LEU:HG	9:S:65:PRO:HD3	1.75	0.69
9:S:210:PHE:HB2	9:S:217:LEU:CD1	2.23	0.69
9:S:277:VAL:HG12	9:S:279:VAL:HG23	1.75	0.69
9:T:157:MET:CA	9:T:294:TRP:NE1	2.54	0.69
9:T:281:THR:OG1	9:T:282:GLN:N	2.20	0.69
9:U:152:THR:C	9:U:153:THR:HG23	2.17	0.69
9:U:260:PRO:O	9:U:261:LEU:HD23	1.93	0.69
3:A:33:ILE:HB	3:A:34:GLN:OE1	1.92	0.69
3:A:403:SER:OG	3:A:404:ALA:N	2.16	0.69
3:A:463:PHE:HD1	3:A:526:TYR:CE1	2.09	0.69
3:A:465:PRO:HD2	3:A:478:ALA:HB2	1.73	0.69
3:A:664:VAL:CG2	3:A:667:GLN:HG3	2.23	0.69
3:A:767:ASP:HB2	3:A:806:VAL:HG11	1.75	0.69
3:A:998:TYR:HD2	3:A:1003:GLN:NE2	1.90	0.69
3:A:1027:ALA:CA	4:B:318:ILE:HD11	2.23	0.69
3:A:1033:THR:C	3:A:1037:LEU:HB2	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:148:ALA:HA	4:B:154:ILE:CB	2.23	0.69
4:B:311:LEU:C	4:B:313:GLU:OE1	2.35	0.69
4:B:452:GLU:HB3	4:B:484:SER:O	1.91	0.69
6:E:69:TRP:CG	6:E:79:VAL:HG12	2.27	0.69
9:S:16:GLY:N	9:S:20:LYS:HD3	2.07	0.69
9:T:142:LEU:CD2	9:T:293:PHE:CD2	2.73	0.69
9:T:197:LYS:N	9:T:200:TYR:HB2	2.03	0.69
9:V:210:PHE:HA	9:V:215:ALA:HB3	1.74	0.69
10:X:157:CYS:HA	10:X:171:ASP:HB2	1.73	0.69
2:2:64:DA:N1	2:2:65:DA:N6	2.35	0.68
3:A:176:GLU:N	3:A:176:GLU:OE1	2.26	0.68
3:A:304:LEU:CD2	3:A:307:LEU:HD11	2.21	0.68
3:A:579:GLU:HA	3:A:581:GLN:HE22	1.57	0.68
3:A:598:VAL:HG11	3:A:658:ARG:O	1.93	0.68
3:A:674:SER:CA	3:A:681:ALA:HB3	2.23	0.68
3:A:898:VAL:HG23	3:A:899:PHE:CD1	2.27	0.68
4:B:75:ALA:O	4:B:79:ARG:HB3	1.92	0.68
4:B:180:ARG:O	4:B:183:LEU:HB3	1.93	0.68
4:B:223:ARG:HG3	4:B:279:GLU:HG3	1.74	0.68
4:B:260:ARG:O	4:B:262:THR:N	2.26	0.68
4:B:299:TYR:CE2	4:B:1139:LYS:HE2	2.25	0.68
4:B:817:GLU:OE2	4:B:828:GLN:HB3	1.93	0.68
4:B:1207:PHE:CD1	4:B:1230:ASP:CG	2.68	0.68
4:B:1229:SER:OG	4:B:1230:ASP:N	2.24	0.68
6:E:225:ILE:O	6:E:226:LYS:C	2.35	0.68
8:G:363:GLU:HG2	8:G:364:ARG:N	2.07	0.68
9:T:123:VAL:CG1	9:V:225:THR:HG23	2.23	0.68
9:T:186:SER:H	9:T:213:LEU:HD23	1.57	0.68
10:Y:48:LEU:HD22	10:Y:101:LEU:CB	2.23	0.68
3:A:103:ASN:OD1	3:A:108:ASP:N	2.25	0.68
3:A:391:ASN:HB2	3:A:563:ALA:O	1.93	0.68
3:A:552:ARG:HE	3:A:894:ASN:HB3	1.56	0.68
3:A:558:ASN:HA	3:A:561:ARG:CG	2.23	0.68
3:A:690:TYR:C	3:A:691:MET:HG2	2.18	0.68
3:A:1070:PHE:C	3:A:1070:PHE:CD1	2.71	0.68
4:B:82:ARG:C	4:B:84:GLU:H	2.00	0.68
4:B:295:CYS:N	4:B:298:CYS:SG	2.67	0.68
4:B:519:HIS:HB3	4:B:806:GLU:HA	1.75	0.68
5:C:201:ASN:CG	5:C:203:SER:H	2.01	0.68
6:E:50:LEU:N	6:E:51:LYS:HZ1	1.88	0.68
6:E:316:ASN:CG	6:E:323:VAL:HG22	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:621:GLU:CA	6:E:625:SER:HA	2.11	0.68
7:F:60:ARG:O	7:F:63:ILE:HG12	1.93	0.68
7:F:60:ARG:O	7:F:63:ILE:N	2.26	0.68
9:S:121:LEU:HB2	9:U:221:LEU:HG	1.74	0.68
9:S:135:LEU:O	9:S:153:THR:HG23	1.91	0.68
9:S:157:MET:CG	9:U:20:LYS:NZ	2.56	0.68
9:T:108:VAL:HG22	9:T:296:LEU:CD1	2.22	0.68
9:T:156:ASP:CG	9:T:156:ASP:O	2.32	0.68
9:T:186:SER:HA	9:T:261:LEU:CD2	2.22	0.68
9:V:177:LEU:HD12	9:V:191:TYR:OH	1.94	0.68
9:V:194:VAL:HG12	9:V:223:VAL:HG12	1.75	0.68
9:V:241:LEU:HD23	9:V:261:LEU:HD23	1.74	0.68
9:V:267:PRO:HG2	9:V:269:ASN:HB2	1.73	0.68
10:Y:134:GLU:HA	10:Y:137:ILE:HD12	1.75	0.68
1:1:106:DG:O6	8:G:83:ARG:HG2	1.93	0.68
3:A:64:GLU:H	3:A:103:ASN:HA	1.58	0.68
3:A:576:THR:O	3:A:576:THR:OG1	1.97	0.68
4:B:52:SER:H	4:B:55:ASP:CG	2.02	0.68
4:B:586:GLN:NE2	4:B:797:LEU:O	2.25	0.68
4:B:854:GLN:NE2	4:B:875:GLN:HG3	2.07	0.68
4:B:940:ILE:HA	4:B:966:ILE:CG1	2.24	0.68
4:B:1245:ILE:O	4:B:1245:ILE:HG13	1.90	0.68
5:D:76:LEU:O	5:D:80:MET:CG	2.30	0.68
5:D:82:MET:O	5:D:85:VAL:HG13	1.93	0.68
5:D:145:GLY:CA	5:D:170:PHE:HE2	2.05	0.68
6:E:85:VAL:O	6:E:86:CYS:C	2.36	0.68
6:E:461:CYS:N	6:E:462:PRO:HD3	2.08	0.68
6:E:542:ILE:O	6:E:543:MET:C	2.33	0.68
7:F:56:LYS:HB2	7:F:59:LEU:HD23	1.75	0.68
9:S:104:TYR:CD2	9:S:301:ILE:HG22	2.29	0.68
9:T:142:LEU:HD22	9:T:285:LEU:HD11	1.75	0.68
9:T:226:LEU:CG	9:T:230:ARG:NH2	2.47	0.68
9:U:36:ILE:HG22	9:U:40:GLU:CD	2.18	0.68
9:U:194:VAL:HA	9:U:219:ALA:HB1	1.73	0.68
10:Y:168:ILE:HB	10:Y:215:PRO:HD3	1.75	0.68
3:A:98:PRO:CA	3:A:113:GLU:HA	2.23	0.68
3:A:347:ILE:CG2	3:A:351:MET:CG	2.61	0.68
3:A:579:GLU:HG2	3:A:580:ALA:N	2.07	0.68
3:A:663:VAL:HG12	3:A:664:VAL:N	1.96	0.68
3:A:747:ALA:C	3:A:749:ARG:HH12	2.02	0.68
3:A:820:PHE:HD2	3:A:826:ASP:OD1	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:885:ASN:OD1	3:A:885:ASN:C	2.33	0.68
4:B:84:GLU:CD	4:B:85:ILE:HG23	2.17	0.68
4:B:516:THR:N	4:B:871:VAL:HG12	2.08	0.68
4:B:1009:GLN:HB3	4:B:1128:VAL:HG22	1.75	0.68
5:D:90:TYR:HA	5:D:144:ARG:HH12	1.58	0.68
6:E:482:GLU:O	6:E:485:ALA:HB3	1.93	0.68
9:S:243:PRO:CB	9:S:274:ARG:NH2	2.13	0.68
9:V:175:HIS:NE2	9:V:236:GLY:HA2	2.09	0.68
10:X:83:GLY:H	10:X:86:SER:HG	1.41	0.68
10:X:212:VAL:HG23	10:X:217:THR:HG21	1.75	0.68
10:Y:132:GLN:O	10:Y:136:MET:HG2	1.93	0.68
3:A:135:ARG:HD3	3:A:386:PHE:CD1	2.29	0.68
3:A:428:GLY:H	3:A:534:ILE:CG2	2.04	0.68
3:A:769:LEU:HD21	3:A:806:VAL:HB	1.75	0.68
3:A:940:ARG:CZ	3:A:949:TYR:CD2	2.69	0.68
4:B:369:ARG:HH11	4:B:999:PHE:HB2	1.57	0.68
4:B:617:ALA:O	4:B:621:TYR:CE1	2.47	0.68
4:B:688:PRO:HG2	4:B:740:PRO:CD	2.23	0.68
4:B:781:ARG:O	4:B:783:LYS:NZ	2.19	0.68
4:B:1218:ARG:HD3	6:E:122:PRO:HD2	1.74	0.68
5:C:41:ARG:CZ	5:C:176:VAL:HG13	2.22	0.68
6:E:38:GLU:OE1	6:E:39:VAL:HG12	1.93	0.68
6:E:316:ASN:CG	6:E:323:VAL:H	2.02	0.68
6:E:389:ILE:CG2	6:E:405:LYS:CG	2.71	0.68
8:G:232:PRO:C	8:G:236:TYR:CD2	2.71	0.68
8:G:253:MET:HG2	8:G:258:THR:H	1.58	0.68
8:G:282:LEU:HD12	8:G:283:PRO:HD3	1.71	0.68
8:G:340:ARG:HG2	8:G:341:TYR:N	2.07	0.68
9:S:113:CYS:HA	9:S:117:PRO:HA	1.76	0.68
9:S:223:VAL:HG21	9:U:113:CYS:SG	2.34	0.68
9:T:138:GLY:HA2	9:T:284:ARG:HD2	1.74	0.68
9:T:155:ARG:O	9:T:294:TRP:CD1	2.46	0.68
9:T:172:ALA:O	9:T:175:HIS:HB3	1.94	0.68
9:T:206:VAL:HG21	9:T:241:LEU:HB2	1.75	0.68
9:T:209:LYS:CE	9:T:212:ARG:HE	2.05	0.68
9:U:66:ARG:HD3	9:V:73:GLU:CB	2.23	0.68
9:U:296:LEU:CG	9:U:301:ILE:H	2.06	0.68
9:V:196:PHE:HD2	9:V:206:VAL:HG21	1.52	0.68
10:X:57:VAL:HG23	10:X:61:GLY:O	1.93	0.68
3:A:281:LEU:HD22	3:A:281:LEU:N	2.07	0.68
3:A:425:SER:HA	3:A:429:ARG:HH21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:591:VAL:HG23	3:A:592:SER:O	1.94	0.68
3:A:607:ARG:CD	3:A:611:SER:HA	2.23	0.68
5:C:19:HIS:HD2	5:C:200:THR:HG22	1.57	0.68
6:E:275:LEU:O	6:E:276:TYR:C	2.34	0.68
6:E:317:GLY:HA2	6:E:322:THR:HG22	1.75	0.68
6:E:438:ARG:HH22	6:E:500:PRO:CB	2.06	0.68
6:E:438:ARG:NH2	6:E:500:PRO:CG	2.57	0.68
6:E:480:SER:HG	6:E:483:SER:H	1.40	0.68
8:G:135:GLU:CB	8:G:139:LEU:CD1	2.71	0.68
9:T:2:ARG:CZ	9:T:39:LEU:HD11	2.20	0.68
9:T:97:ILE:HG12	9:T:163:TYR:CE1	2.27	0.68
9:T:129:ASP:C	9:T:131:ALA:H	2.01	0.68
9:T:227:ASP:OD1	9:V:249:GLU:OE2	2.12	0.68
9:U:206:VAL:HG21	9:U:274:ARG:HD2	1.74	0.68
9:U:243:PRO:CD	9:U:274:ARG:HD3	2.18	0.68
9:V:93:CYS:SG	9:V:140:VAL:HG12	2.34	0.68
9:V:151:LEU:O	9:V:152:THR:OG1	2.12	0.68
10:Y:26:GLU:O	10:Y:100:LEU:HB2	1.93	0.68
10:Y:65:THR:OG1	10:Y:67:ALA:O	2.12	0.68
3:A:35:ARG:NH2	3:A:39:ARG:HD3	2.09	0.68
3:A:255:GLN:HA	3:A:258:ASP:OD2	1.93	0.68
3:A:635:ILE:HG22	3:A:637:TYR:HE1	1.59	0.68
3:A:704:ILE:HG13	3:A:705:SER:N	2.06	0.68
3:A:756:ILE:HA	3:A:770:VAL:HG23	1.74	0.68
4:B:6:ARG:HH22	4:B:12:GLN:NE2	1.92	0.68
4:B:52:SER:HG	4:B:55:ASP:N	1.80	0.68
4:B:59:PRO:O	4:B:61:SER:N	2.27	0.68
4:B:195:TYR:O	4:B:198:ARG:CG	2.33	0.68
4:B:299:TYR:C	4:B:1139:LYS:HZ1	2.02	0.68
5:D:57:ARG:HD3	5:D:161:LEU:HB3	1.76	0.68
6:E:362:ILE:HD11	6:E:473:MET:HG2	1.70	0.68
8:G:107:ILE:O	8:G:110:LEU:HG	1.92	0.68
8:G:115:ARG:HB3	8:G:119:ARG:HH12	1.58	0.68
8:G:170:ALA:HA	8:G:183:LEU:HD22	1.73	0.68
8:G:206:PHE:HB2	8:G:210:ALA:H	1.58	0.68
9:S:146:MET:HE1	9:S:201:GLY:O	1.93	0.68
9:T:165:GLU:HG2	9:T:168:GLU:CD	2.19	0.68
9:T:227:ASP:CG	9:T:230:ARG:HE	2.02	0.68
9:T:285:LEU:HA	9:T:290:ILE:CG2	2.22	0.68
9:V:241:LEU:HD12	9:V:241:LEU:C	2.19	0.68
10:X:34:ILE:HB	10:X:92:ALA:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:X:56:ARG:HH11	10:X:58:TYR:H	1.41	0.68
10:X:128:SER:O	10:X:132:GLN:HG3	1.94	0.68
10:X:212:VAL:CG2	10:X:217:THR:HG21	2.23	0.68
3:A:45:GLY:O	3:A:48:GLU:OE1	2.12	0.68
3:A:158:ARG:HH12	3:A:179:ARG:HB3	1.59	0.68
3:A:435:THR:HG22	3:A:437:GLU:H	1.58	0.68
3:A:690:TYR:HB3	3:A:886:PRO:HA	1.74	0.68
3:A:1041:LYS:HD3	6:E:355:ASP:HB2	1.75	0.68
4:B:52:SER:OG	4:B:54:ASP:OD1	2.05	0.68
4:B:61:SER:OG	4:B:108:GLU:OE1	2.11	0.68
4:B:64:SER:O	4:B:67:GLU:N	2.27	0.68
4:B:221:PRO:HA	4:B:281:VAL:HA	1.76	0.68
4:B:366:ARG:NH1	4:B:369:ARG:HG3	2.09	0.68
4:B:449:LEU:N	4:B:990:ARG:HH12	1.92	0.68
4:B:707:LEU:HB2	4:B:723:ARG:O	1.94	0.68
4:B:772:GLN:HA	4:B:793:THR:HA	1.74	0.68
4:B:1244:LEU:CG	4:B:1245:ILE:N	2.52	0.68
5:C:7:GLU:O	5:C:9:VAL:HG13	1.93	0.68
5:D:19:HIS:HD2	5:D:200:THR:HG22	1.57	0.68
5:D:51:THR:HB	5:D:144:ARG:HG3	1.75	0.68
5:D:58:ILE:CD1	5:D:138:MET:HG2	2.24	0.68
6:E:30:LEU:HD21	6:E:34:GLN:HG3	1.75	0.68
6:E:485:ALA:C	6:E:487:ALA:H	2.00	0.68
8:G:113:LEU:O	8:G:116:VAL:HG23	1.94	0.68
9:U:278:MET:HE1	9:U:294:TRP:C	2.13	0.68
9:V:90:PRO:O	9:V:91:GLU:HB2	1.94	0.68
9:V:157:MET:HB2	9:V:279:VAL:HB	1.75	0.68
10:X:126:LEU:HD21	10:Y:130:ILE:CG1	2.16	0.68
1:1:21:DC:O2	2:2:105:DG:C2	2.44	0.68
3:A:507:GLN:HA	3:A:520:THR:CG2	2.20	0.68
3:A:538:ALA:CB	3:A:561:ARG:CG	2.71	0.68
3:A:600:TYR:HD2	3:A:602:ASP:CG	2.02	0.68
3:A:674:SER:HB3	3:A:681:ALA:O	1.93	0.68
3:A:705:SER:OG	3:A:706:GLU:N	2.25	0.68
4:B:86:THR:O	4:B:89:GLU:HB2	1.94	0.68
4:B:284:SER:O	4:B:298:CYS:HB2	1.93	0.68
4:B:577:THR:OG1	4:B:580:THR:HG23	1.92	0.68
4:B:896:ARG:HH21	4:B:982:ILE:HD11	1.58	0.68
5:C:82:MET:O	5:C:85:VAL:HG13	1.93	0.68
6:E:161:LEU:C	6:E:161:LEU:HD12	2.18	0.68
7:F:41:ARG:O	7:F:45:GLU:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:85:TYR:O	8:G:86:LEU:C	2.34	0.68
8:G:376:LEU:HD23	8:G:376:LEU:H	1.59	0.68
9:S:157:MET:CB	9:U:20:LYS:HZ3	2.06	0.68
9:T:132:LEU:HD13	9:T:279:VAL:HG12	1.72	0.68
9:U:18:PHE:CD1	9:U:36:ILE:HD12	2.27	0.68
9:U:142:LEU:CD2	9:U:294:TRP:CB	2.53	0.68
10:X:47:LEU:HD13	10:X:69:LEU:HB3	1.76	0.68
3:A:1033:THR:O	3:A:1037:LEU:N	2.27	0.68
3:A:1041:LYS:HZ3	6:E:356:TYR:HB2	1.58	0.68
4:B:37:LYS:HD2	6:E:509:PRO:HD3	1.37	0.68
4:B:369:ARG:HB3	4:B:443:LYS:HE3	1.76	0.68
5:D:102:ASN:HD22	5:D:135:LYS:H	1.40	0.68
6:E:30:LEU:HD23	6:E:34:GLN:O	1.93	0.68
6:E:382:GLU:N	6:E:382:GLU:CD	2.52	0.68
9:S:165:GLU:HG3	9:S:244:SER:HB3	1.76	0.68
9:S:185:TRP:CG	9:S:210:PHE:HA	2.29	0.68
9:T:126:LEU:HD13	9:T:131:ALA:CA	2.24	0.68
9:T:156:ASP:CA	9:T:291:LYS:CG	2.51	0.68
9:T:198:ASP:HA	9:T:203:GLN:OE1	1.94	0.68
9:U:242:LEU:CD2	9:U:246:ALA:CB	2.70	0.68
9:V:194:VAL:HG13	9:V:221:LEU:HD12	1.74	0.68
3:A:144:SER:CB	3:A:324:ARG:HE	2.06	0.67
3:A:235:LEU:HD12	3:A:235:LEU:O	1.94	0.67
3:A:396:LEU:O	3:A:397:THR:C	2.32	0.67
3:A:516:PHE:CE2	4:B:157:LEU:HB2	2.23	0.67
3:A:656:LEU:HB2	3:A:671:ASP:OD2	1.93	0.67
3:A:674:SER:C	3:A:681:ALA:H	1.97	0.67
4:B:6:ARG:HD2	6:E:565:GLU:OE2	1.94	0.67
4:B:212:ILE:HG13	4:B:213:ASP:N	2.10	0.67
4:B:416:GLN:N	4:B:422:GLN:HG2	2.08	0.67
4:B:914:PRO:HB3	4:B:944:LYS:HD3	1.76	0.67
4:B:1207:PHE:O	4:B:1220:LEU:CD1	2.34	0.67
5:C:221:PHE:CZ	5:D:40:LEU:HD11	2.27	0.67
5:D:159:THR:O	5:D:159:THR:HG23	1.93	0.67
6:E:274:ASP:OD1	6:E:275:LEU:CD2	2.42	0.67
6:E:564:VAL:HG11	6:E:606:ILE:HG13	1.75	0.67
6:E:582:GLY:HA2	6:E:596:ASP:HA	1.76	0.67
8:G:311:ASP:HA	8:G:314:SER:HB3	1.76	0.67
9:S:4:GLU:CA	9:S:27:VAL:HG21	2.24	0.67
9:T:122:ARG:NE	9:T:124:THR:CG2	2.50	0.67
9:T:156:ASP:CG	9:T:291:LYS:CG	2.65	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:166:PRO:HA	9:T:273:THR:OG1	1.93	0.67
9:T:209:LYS:HE2	9:T:212:ARG:NE	2.07	0.67
9:V:167:ILE:HG13	9:V:272:LEU:CD2	2.22	0.67
10:X:65:THR:OG1	10:X:67:ALA:O	2.12	0.67
10:Y:216:VAL:HA	10:Y:219:SER:HB2	1.73	0.67
3:A:38:PHE:O	3:A:39:ARG:C	2.36	0.67
3:A:543:PRO:O	3:A:544:PHE:CD1	2.47	0.67
3:A:599:VAL:HG22	3:A:613:GLN:HB3	1.75	0.67
3:A:663:VAL:CG1	3:A:664:VAL:H	1.96	0.67
3:A:913:ARG:NH2	3:A:915:LYS:CE	2.55	0.67
4:B:15:ASN:O	4:B:18:SER:N	2.26	0.67
4:B:75:ALA:HB1	4:B:79:ARG:HH21	1.59	0.67
4:B:185:ASP:O	4:B:186:THR:C	2.32	0.67
4:B:221:PRO:N	4:B:281:VAL:HG22	2.09	0.67
4:B:616:LYS:C	4:B:618:LYS:H	2.00	0.67
4:B:621:TYR:CZ	4:B:774:LEU:O	2.47	0.67
4:B:1205:ASP:OD1	4:B:1213:PHE:CZ	2.46	0.67
5:C:200:THR:OG1	5:C:201:ASN:N	2.26	0.67
5:D:23:PHE:O	5:D:24:ILE:HD13	1.94	0.67
5:D:201:ASN:CG	5:D:203:SER:H	2.02	0.67
5:D:212:SER:C	5:D:216:ILE:HG13	2.19	0.67
5:D:212:SER:O	5:D:213:ALA:C	2.37	0.67
6:E:297:ILE:O	6:E:301:ASN:ND2	2.26	0.67
9:S:180:TYR:CD2	9:S:187:GLU:CD	2.72	0.67
9:S:183:VAL:HG12	9:S:185:TRP:CZ3	2.29	0.67
9:S:213:LEU:HD23	9:S:266:LEU:HD12	1.76	0.67
9:S:285:LEU:CD2	9:S:290:ILE:HG21	2.17	0.67
9:S:294:TRP:HZ3	9:S:298:ARG:NH2	1.89	0.67
9:T:183:VAL:HG12	9:T:184:PRO:N	2.07	0.67
9:T:249:GLU:OE2	9:V:227:ASP:OD1	2.10	0.67
9:U:141:ASP:OD2	9:U:284:ARG:NH2	2.26	0.67
9:V:142:LEU:HD11	9:V:280:THR:HB	1.75	0.67
10:Y:34:ILE:HB	10:Y:92:ALA:O	1.94	0.67
4:B:12:GLN:O	4:B:16:LEU:HB2	1.94	0.67
4:B:1135:ASP:O	4:B:1136:ILE:CG2	2.41	0.67
5:C:81:ARG:NH1	5:C:126:TYR:CE2	2.63	0.67
6:E:80:ARG:NH2	8:G:345:ASP:CG	2.52	0.67
6:E:238:GLY:C	6:E:239:SER:HG	1.98	0.67
6:E:251:VAL:HG22	6:E:276:TYR:OH	1.95	0.67
9:S:57:THR:C	9:S:58:LEU:HD12	2.19	0.67
9:S:169:LEU:HG	9:S:170:LEU:N	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:167:ILE:H	9:T:273:THR:HA	1.58	0.67
9:V:77:ALA:CB	9:V:81:LEU:HD22	2.24	0.67
10:Y:212:VAL:HG22	10:Y:218:LEU:CD2	2.23	0.67
3:A:163:ALA:H	3:A:175:PHE:C	2.02	0.67
3:A:393:LEU:O	3:A:396:LEU:HB2	1.93	0.67
3:A:401:ARG:HB2	3:A:444:ILE:CG2	2.24	0.67
3:A:875:PRO:HD2	3:A:947:TRP:CH2	2.29	0.67
3:A:884:LEU:HB3	3:A:885:ASN:O	1.95	0.67
3:A:1004:GLN:HG3	3:A:1005:PRO:HD2	1.77	0.67
4:B:86:THR:N	4:B:371:ARG:HB3	2.08	0.67
4:B:540:ILE:CD1	4:B:835:LEU:CD1	2.56	0.67
4:B:766:ILE:HG12	4:B:799:ILE:HG23	1.75	0.67
6:E:139:ILE:HG22	6:E:190:ALA:HA	1.77	0.67
6:E:221:ARG:O	6:E:225:ILE:HG12	1.94	0.67
6:E:444:PHE:HA	6:E:492:LEU:HD12	1.77	0.67
6:E:561:ASP:CG	6:E:604:GLN:HG3	2.20	0.67
6:E:561:ASP:OD2	6:E:604:GLN:NE2	2.26	0.67
7:F:29:TYR:O	7:F:30:ARG:C	2.33	0.67
7:F:62:ILE:O	7:F:65:MET:HB2	1.94	0.67
8:G:111:LEU:C	8:G:115:ARG:NE	2.50	0.67
8:G:222:ILE:C	8:G:225:GLN:H	2.03	0.67
8:G:225:GLN:O	8:G:226:SER:OG	2.11	0.67
8:G:333:GLU:HB3	8:G:368:ILE:HG22	1.73	0.67
9:S:45:LEU:HB2	9:S:58:LEU:HD23	1.77	0.67
9:S:144:ILE:CG2	9:S:276:VAL:HA	2.24	0.67
9:S:176:PRO:HB2	9:S:191:TYR:CZ	2.29	0.67
9:S:211:GLU:HG3	9:S:216:THR:HA	1.73	0.67
9:S:212:ARG:O	9:S:266:LEU:CD1	2.33	0.67
9:U:206:VAL:HG22	9:U:210:PHE:CZ	2.30	0.67
9:V:146:MET:HE2	9:V:274:ARG:NE	2.08	0.67
9:V:148:ASN:O	9:V:149:ARG:HG3	1.94	0.67
9:V:262:ALA:O	9:V:272:LEU:N	2.26	0.67
10:Y:57:VAL:HG23	10:Y:61:GLY:O	1.94	0.67
3:A:583:ALA:HB2	3:A:680:LEU:HD21	1.77	0.67
4:B:14:ARG:O	4:B:15:ASN:C	2.37	0.67
4:B:162:ASN:ND2	4:B:164:ARG:HG3	2.08	0.67
4:B:359:LEU:N	4:B:391:LYS:O	2.27	0.67
4:B:412:ILE:HD13	4:B:424:LEU:HD13	1.77	0.67
4:B:1001:ARG:NH2	4:B:1002:ALA:HB3	2.10	0.67
5:C:58:ILE:HD13	5:C:138:MET:HA	1.76	0.67
5:C:197:GLU:OE2	5:C:199:TRP:NE1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:91:SER:C	5:D:93:GLN:H	2.01	0.67
6:E:240:LYS:HB3	6:E:242:GLU:CD	2.20	0.67
6:E:289:LEU:O	6:E:290:GLN:C	2.38	0.67
9:S:154:GLY:HA3	9:S:281:THR:HG23	1.75	0.67
9:S:243:PRO:HB3	9:S:274:ARG:HH22	0.53	0.67
9:T:186:SER:N	9:T:213:LEU:HB3	2.09	0.67
9:T:287:ILE:HB	9:T:290:ILE:HG13	1.76	0.67
9:V:59:GLY:O	9:V:63:LEU:HB2	1.94	0.67
9:V:167:ILE:HG22	9:V:209:LYS:NZ	1.94	0.67
9:V:169:LEU:HD22	9:V:261:LEU:HD22	1.77	0.67
9:V:209:LYS:HE2	9:V:241:LEU:HD11	1.75	0.67
10:X:47:LEU:HG	10:X:100:LEU:HG	1.76	0.67
10:X:163:PRO:HB3	10:X:168:ILE:HA	1.76	0.67
10:X:170:ILE:HD11	10:X:210:ILE:HB	1.75	0.67
10:X:217:THR:HG22	10:X:218:LEU:HD12	1.76	0.67
3:A:35:ARG:CZ	3:A:39:ARG:HD3	2.25	0.67
3:A:897:GLN:O	3:A:898:VAL:C	2.34	0.67
4:B:162:ASN:OD1	4:B:162:ASN:C	2.38	0.67
4:B:479:LEU:N	4:B:481:TRP:HH2	1.89	0.67
4:B:495:GLU:HA	4:B:890:GLY:C	2.19	0.67
4:B:624:VAL:HG12	4:B:625:GLN:HB2	1.76	0.67
4:B:1038:VAL:HG13	4:B:1039:VAL:H	1.60	0.67
5:C:25:LEU:HD22	5:C:28:LEU:CG	2.24	0.67
5:D:212:SER:O	5:D:216:ILE:HG13	1.93	0.67
6:E:78:ARG:HD2	8:G:347:ARG:N	2.10	0.67
6:E:378:GLU:OE1	6:E:452:ARG:HG2	1.95	0.67
6:E:432:ARG:HH12	6:E:465:ASN:HB3	1.59	0.67
6:E:536:ALA:CB	6:E:538:LEU:CD2	2.69	0.67
6:E:557:TYR:HB3	6:E:607:TYR:CD1	2.29	0.67
6:E:595:GLU:O	6:E:596:ASP:OD1	2.13	0.67
8:G:206:PHE:O	8:G:210:ALA:N	2.27	0.67
8:G:232:PRO:C	8:G:236:TYR:CE2	2.73	0.67
9:S:128:SER:HA	9:S:145:VAL:HG11	1.75	0.67
9:T:287:ILE:O	9:T:290:ILE:N	2.28	0.67
9:V:143:ALA:O	9:V:278:MET:HE2	1.93	0.67
9:V:159:VAL:HG12	9:V:160:GLU:C	2.19	0.67
9:V:193:GLN:HG2	9:V:218:GLN:OE1	1.95	0.67
10:X:46:PHE:CD2	10:X:101:LEU:CB	2.74	0.67
3:A:175:PHE:HE1	3:A:185:VAL:HG12	1.58	0.67
3:A:546:GLU:HG3	3:A:547:HIS:CG	2.30	0.67
4:B:69:ALA:O	4:B:72:GLU:HB3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:284:SER:O	4:B:287:THR:OG1	2.12	0.67
4:B:412:ILE:CG2	4:B:413:VAL:N	2.57	0.67
4:B:501:GLY:N	4:B:884:VAL:O	2.28	0.67
4:B:658:THR:HG23	4:B:665:PHE:HB3	1.77	0.67
4:B:863:ASP:HB2	4:B:866:VAL:HG22	1.64	0.67
5:C:18:ASN:OD1	5:C:199:TRP:HA	1.95	0.67
5:C:125:GLN:HG3	5:C:126:TYR:O	1.94	0.67
5:C:192:ASP:OD1	5:C:192:ASP:N	2.23	0.67
5:D:34:THR:HG23	5:D:180:VAL:HG21	1.76	0.67
5:D:62:SER:OG	5:D:63:HIS:N	2.26	0.67
5:D:197:GLU:OE2	5:D:199:TRP:NE1	2.27	0.67
6:E:458:PRO:HG2	6:E:459:LEU:H	1.58	0.67
8:G:378:HIS:CD2	10:X:59:GLU:HA	2.30	0.67
9:T:34:ARG:CA	9:T:50:ARG:HH21	1.99	0.67
9:T:182:ARG:HA	9:T:261:LEU:HA	1.77	0.67
9:V:86:ALA:HB3	9:V:287:ILE:CD1	2.13	0.67
9:V:226:LEU:HD13	9:V:242:LEU:HD12	1.77	0.67
10:X:116:PRO:HA	10:X:119:SER:CB	2.22	0.67
3:A:58:ASP:CA	3:A:352:THR:OG1	2.43	0.67
3:A:271:ARG:HG3	3:A:272:VAL:N	2.09	0.67
3:A:547:HIS:NE2	3:A:920:ASP:OD2	2.28	0.67
3:A:900:GLU:O	3:A:903:LEU:N	2.27	0.67
4:B:251:PRO:C	4:B:253:THR:N	2.50	0.67
4:B:759:SER:CB	4:B:766:ILE:HD12	2.25	0.67
4:B:1210:ALA:HB1	4:B:1219:VAL:HG22	1.77	0.67
5:C:45:LEU:HD21	5:C:173:VAL:CG1	2.25	0.67
6:E:78:ARG:HG2	8:G:346:GLY:HA3	1.77	0.67
6:E:105:TYR:CD1	6:E:250:PRO:C	2.68	0.67
6:E:275:LEU:N	6:E:275:LEU:HD22	2.09	0.67
6:E:291:GLU:CG	6:E:292:ILE:N	2.57	0.67
6:E:577:THR:HB	6:E:585:THR:HB	1.77	0.67
9:S:185:TRP:CD2	9:S:213:LEU:HD12	2.30	0.67
9:S:208:GLU:CG	9:S:272:LEU:HD21	2.23	0.67
9:U:18:PHE:HD1	9:U:36:ILE:HD12	1.57	0.67
9:U:142:LEU:HA	9:U:279:VAL:HB	1.77	0.67
9:U:167:ILE:HD11	9:U:272:LEU:CB	2.24	0.67
9:U:296:LEU:HD12	9:U:300:ASN:CA	2.24	0.67
9:V:3:LEU:CD1	9:V:4:GLU:N	2.55	0.67
10:Y:47:LEU:CG	10:Y:75:PHE:HE2	2.07	0.67
3:A:147:VAL:N	3:A:148:TYR:CE2	2.62	0.67
3:A:166:ILE:HG12	3:A:172:TRP:NE1	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:635:ILE:HG22	3:A:637:TYR:CE1	2.30	0.67
3:A:1036:GLU:HG2	3:A:1040:VAL:CG2	2.25	0.67
4:B:92:GLN:HG3	4:B:366:ARG:NH2	2.09	0.67
4:B:181:LYS:O	4:B:184:VAL:N	2.28	0.67
4:B:852:SER:HB3	4:B:877:LEU:CD2	2.24	0.67
5:C:57:ARG:NE	5:C:162:ASP:O	2.28	0.67
5:C:201:ASN:HD21	5:C:203:SER:CB	2.06	0.67
5:D:18:ASN:OD1	5:D:199:TRP:HA	1.95	0.67
5:D:198:VAL:C	5:D:199:TRP:HD1	2.03	0.67
6:E:459:LEU:HD21	6:E:507:ILE:HG23	1.76	0.67
8:G:121:SER:HA	8:G:127:ASP:N	2.09	0.67
8:G:227:ARG:HE	8:G:231:LEU:HD11	1.58	0.67
8:G:246:THR:HA	8:G:249:LEU:HB2	1.76	0.67
8:G:299:GLY:C	8:G:301:PHE:N	2.53	0.67
8:G:329:LEU:HD13	8:G:330:SER:O	1.95	0.67
9:T:142:LEU:HD21	9:T:293:PHE:CD2	2.25	0.67
9:T:194:VAL:HG12	9:T:222:GLU:CG	2.23	0.67
9:U:225:THR:HB	9:U:227:ASP:O	1.95	0.67
9:V:106:PRO:HB2	9:V:107:PRO:HD3	1.76	0.67
9:V:210:PHE:CA	9:V:215:ALA:H	2.08	0.67
10:X:165:ALA:HB3	10:X:209:LYS:CB	2.25	0.67
10:Y:55:SER:HB3	10:Y:63:GLU:HG3	1.76	0.67
10:Y:81:LEU:HD23	10:Y:86:SER:HB3	1.76	0.67
3:A:488:LEU:HD21	3:A:524:VAL:CA	2.24	0.67
3:A:664:VAL:HG23	3:A:667:GLN:CG	2.25	0.67
4:B:479:LEU:CD1	4:B:481:TRP:CH2	2.78	0.67
5:C:91:SER:C	5:C:93:GLN:H	2.01	0.67
5:D:79:ILE:HG23	6:E:534:TYR:OH	1.94	0.67
5:D:200:THR:OG1	5:D:201:ASN:N	2.26	0.67
6:E:379:MET:O	6:E:383:LEU:HG	1.95	0.67
9:S:267:PRO:O	9:S:272:LEU:HD23	1.94	0.67
9:T:12:ILE:HD11	9:T:18:PHE:HB3	1.75	0.67
9:T:82:GLY:HA2	9:T:85:ILE:HB	1.76	0.67
9:T:145:VAL:HB	9:T:278:MET:CB	2.24	0.67
9:U:62:ARG:HD3	9:V:87:GLY:O	1.95	0.67
9:U:199:GLY:HA2	9:U:207:GLN:HE21	1.55	0.67
9:U:210:PHE:CB	9:U:211:GLU:OE1	2.43	0.67
9:V:77:ALA:HB1	9:V:81:LEU:HD23	1.76	0.67
10:Y:45:TYR:CE2	10:Y:75:PHE:CZ	2.72	0.67
1:1:46:DA:H2'	1:1:47:DT:H71	1.76	0.66
2:2:64:DA:C4	2:2:65:DA:C6	2.82	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:314:ILE:HG13	3:A:315:ASP:OD1	1.95	0.66
3:A:446:SER:HB3	3:A:536:SER:HB3	1.75	0.66
3:A:470:ARG:HD2	3:A:502:TYR:CE1	2.30	0.66
3:A:614:LEU:N	3:A:615:PRO:HD2	2.10	0.66
3:A:819:LEU:HD12	3:A:835:VAL:HG23	1.76	0.66
4:B:358:LYS:HG3	4:B:390:ARG:C	2.20	0.66
4:B:639:VAL:CG1	4:B:641:LYS:CE	2.68	0.66
4:B:1218:ARG:NE	6:E:122:PRO:CG	2.58	0.66
5:C:14:GLU:O	5:C:15:GLU:C	2.38	0.66
6:E:9:PHE:HE2	6:E:12:VAL:HG13	1.60	0.66
6:E:537:SER:HB2	6:E:558:VAL:CG1	2.25	0.66
7:F:58:VAL:O	7:F:62:ILE:HG12	1.95	0.66
7:F:65:MET:O	7:F:69:LEU:HG	1.95	0.66
8:G:299:GLY:CA	8:G:301:PHE:HB2	2.25	0.66
8:G:337:LEU:O	8:G:338:ARG:C	2.39	0.66
9:V:181:GLU:O	9:V:184:PRO:CG	2.43	0.66
10:X:95:PHE:HE2	10:X:172:LEU:HD13	1.60	0.66
10:X:133:THR:HG22	10:X:137:ILE:HG13	1.76	0.66
10:X:154:LEU:HD11	10:X:158:ARG:NH1	2.10	0.66
10:X:188:VAL:C	10:X:190:VAL:H	2.01	0.66
3:A:79:TYR:CZ	3:A:84:ALA:HA	2.29	0.66
3:A:294:SER:C	3:A:296:ASP:OD1	2.38	0.66
3:A:567:LEU:HD12	3:A:567:LEU:C	2.21	0.66
3:A:601:VAL:HG12	3:A:659:ILE:CG2	2.24	0.66
3:A:688:VAL:CG1	3:A:690:TYR:CE1	2.66	0.66
3:A:864:ARG:HG2	3:A:865:ILE:O	1.95	0.66
4:B:21:PHE:CE2	6:E:497:ILE:HD13	2.29	0.66
4:B:488:TYR:O	4:B:490:LEU:HG	1.96	0.66
4:B:500:ASN:OD1	4:B:886:GLY:N	2.17	0.66
4:B:524:ARG:O	4:B:525:LEU:HB2	1.93	0.66
4:B:1107:TYR:O	4:B:1108:ALA:C	2.38	0.66
4:B:1174:GLU:O	4:B:1178:GLU:N	2.28	0.66
4:B:1248:GLY:HA2	7:F:29:TYR:HE2	1.59	0.66
5:C:82:MET:O	5:C:85:VAL:N	2.22	0.66
5:C:83:LYS:CE	5:C:168:SER:HA	2.25	0.66
5:D:102:ASN:HD22	5:D:135:LYS:N	1.93	0.66
5:D:217:LEU:HD23	5:D:217:LEU:N	2.09	0.66
6:E:111:PRO:CB	6:E:194:LEU:HD22	2.26	0.66
6:E:356:TYR:HE2	6:E:386:PRO:HG3	1.60	0.66
9:S:251:ARG:HG2	9:S:251:ARG:O	1.94	0.66
9:T:210:PHE:HB3	9:T:215:ALA:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:292:HIS:CD2	9:V:296:LEU:HD12	2.27	0.66
10:X:163:PRO:HA	10:X:169:THR:H	1.59	0.66
10:Y:44:VAL:HG13	10:Y:46:PHE:HB2	1.77	0.66
10:Y:212:VAL:HG21	10:Y:215:PRO:HA	1.76	0.66
3:A:171:ALA:N	3:A:267:TYR:HE1	1.92	0.66
3:A:598:VAL:HG13	3:A:660:GLY:H	1.59	0.66
3:A:607:ARG:CG	3:A:609:ARG:HB2	2.12	0.66
3:A:727:ARG:HD2	6:E:263:ASP:OD2	1.95	0.66
3:A:737:THR:N	3:A:773:VAL:CG2	2.54	0.66
3:A:895:VAL:O	3:A:898:VAL:HG22	1.95	0.66
4:B:33:ALA:HA	4:B:37:LYS:NZ	1.98	0.66
4:B:95:ILE:HG13	4:B:146:LEU:CD2	2.25	0.66
4:B:251:PRO:O	4:B:253:THR:OG1	2.03	0.66
4:B:361:ARG:H	4:B:391:LYS:HB2	1.59	0.66
4:B:510:LEU:CB	4:B:877:LEU:HA	2.25	0.66
4:B:631:TRP:CZ3	4:B:782:VAL:HG21	2.30	0.66
4:B:910:ILE:CD1	4:B:943:VAL:HG13	2.23	0.66
4:B:1033:GLY:CA	4:B:1054:SER:H	2.08	0.66
4:B:1225:ILE:HB	4:B:1226:GLU:CD	2.20	0.66
5:C:181:GLU:OE2	5:C:193:ARG:HD2	1.94	0.66
5:D:95:GLN:HB3	5:D:115:PRO:HG3	1.75	0.66
6:E:457:HIS:O	6:E:459:LEU:N	2.28	0.66
8:G:211:THR:O	8:G:212:TRP:C	2.39	0.66
8:G:329:LEU:HD13	8:G:333:GLU:HG2	1.77	0.66
9:S:70:ILE:CG2	9:T:70:ILE:HD12	2.25	0.66
9:S:123:VAL:HB	9:U:223:VAL:HB	1.78	0.66
9:T:170:LEU:HB2	9:T:256:LEU:HD13	1.77	0.66
9:T:180:TYR:CD1	9:T:188:LEU:HD23	2.30	0.66
9:T:194:VAL:HG12	9:T:195:VAL:H	1.59	0.66
9:T:198:ASP:CA	9:T:203:GLN:OE1	2.44	0.66
9:U:108:VAL:CG2	9:U:112:PHE:CD1	2.78	0.66
9:V:72:LEU:O	9:V:75:GLU:HB3	1.95	0.66
9:V:147:ASN:HB2	9:V:277:VAL:CG2	2.25	0.66
9:V:175:HIS:HD2	9:V:176:PRO:CD	2.07	0.66
10:X:81:LEU:HD23	10:X:86:SER:HB3	1.77	0.66
10:X:95:PHE:CE2	10:X:172:LEU:CD1	2.78	0.66
10:Y:76:GLY:HA2	10:Y:79:SER:OG	1.95	0.66
10:Y:169:THR:CA	10:Y:211:THR:HG21	2.22	0.66
3:A:159:ARG:CZ	3:A:159:ARG:HB3	2.24	0.66
3:A:165:LEU:O	3:A:172:TRP:HA	1.95	0.66
3:A:272:VAL:O	3:A:275:TYR:HB3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:553:ALA:O	3:A:554:LEU:CG	2.44	0.66
3:A:811:LYS:HE2	5:C:152:GLU:HB3	1.77	0.66
3:A:932:VAL:HG23	3:A:933:HIS:N	2.08	0.66
3:A:1036:GLU:OE2	3:A:1041:LYS:N	2.28	0.66
4:B:358:LYS:HG2	4:B:389:PRO:HB2	1.77	0.66
4:B:666:CYS:SG	4:B:668:ASN:HB3	2.35	0.66
4:B:764:ARG:HH22	4:B:808:ASN:CG	2.02	0.66
4:B:894:VAL:O	4:B:894:VAL:HG23	1.94	0.66
4:B:1118:GLN:HA	4:B:1121:LEU:HD12	1.77	0.66
4:B:1232:LEU:HB3	4:B:1238:ASN:HB3	1.77	0.66
5:D:83:LYS:CE	5:D:168:SER:HA	2.23	0.66
6:E:290:GLN:NE2	6:E:290:GLN:H	1.93	0.66
6:E:295:PRO:HG3	8:G:159:VAL:HG11	1.76	0.66
6:E:420:GLU:CA	6:E:423:ILE:CD1	2.63	0.66
6:E:552:LEU:O	6:E:609:THR:HG21	1.95	0.66
7:F:30:ARG:O	7:F:31:ILE:C	2.37	0.66
7:F:65:MET:C	7:F:69:LEU:HG	2.21	0.66
8:G:290:ILE:H	8:G:296:SER:HB2	1.60	0.66
9:T:293:PHE:CG	9:T:297:VAL:HG23	2.31	0.66
10:X:197:LEU:HB3	10:X:203:ILE:HG23	1.75	0.66
10:Y:163:PRO:O	10:Y:169:THR:HB	1.95	0.66
3:A:54:SER:HB3	3:A:55:PRO:HD3	1.76	0.66
3:A:68:LEU:HD12	3:A:70:HIS:CD2	2.30	0.66
3:A:463:PHE:HB2	3:A:526:TYR:HB3	1.77	0.66
3:A:581:GLN:HG2	3:A:582:GLY:N	2.08	0.66
4:B:25:GLY:N	4:B:28:ARG:NH2	2.43	0.66
4:B:100:GLY:HA3	4:B:422:GLN:C	2.21	0.66
4:B:318:ILE:CG1	6:E:438:ARG:NH1	2.59	0.66
4:B:480:ILE:HG12	4:B:974:VAL:CG2	2.26	0.66
4:B:677:LYS:HZ3	4:B:682:ARG:HD2	1.60	0.66
4:B:765:SER:CB	4:B:801:GLN:HG3	2.26	0.66
5:C:25:LEU:HD21	5:C:28:LEU:HD21	1.74	0.66
6:E:385:GLN:HE21	6:E:389:ILE:HG23	1.60	0.66
6:E:457:HIS:HD1	6:E:459:LEU:H	1.40	0.66
8:G:135:GLU:HG3	8:G:139:LEU:CD1	2.25	0.66
8:G:173:TYR:HA	8:G:176:ARG:CZ	2.24	0.66
8:G:274:ARG:O	8:G:275:PHE:C	2.37	0.66
9:S:104:TYR:CD2	9:S:301:ILE:CG2	2.78	0.66
9:S:174:ASN:HB2	9:S:237:GLU:OE1	1.96	0.66
9:U:31:THR:HA	9:U:34:ARG:HH11	1.61	0.66
9:U:144:ILE:HD12	9:U:293:PHE:CE2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:296:LEU:HD12	9:U:301:ILE:N	2.08	0.66
10:X:86:SER:HB2	10:X:88:ARG:HG3	1.78	0.66
10:Y:56:ARG:HH11	10:Y:58:TYR:H	1.41	0.66
1:1:42:DA:OP1	9:T:1:MET:HE1	1.94	0.66
3:A:153:ILE:HG22	3:A:154:ASP:H	1.59	0.66
3:A:433:ILE:HG22	3:A:539:THR:CG2	2.21	0.66
3:A:689:ALA:CA	3:A:974:ILE:HG22	2.25	0.66
5:C:51:THR:N	5:C:144:ARG:HG3	2.11	0.66
5:D:221:PHE:CE1	5:D:222:ASN:HB2	2.31	0.66
6:E:275:LEU:CD2	6:E:275:LEU:N	2.58	0.66
6:E:282:ARG:HD3	6:E:285:ARG:NH2	2.10	0.66
6:E:542:ILE:HD13	6:E:614:ILE:HG12	1.77	0.66
6:E:593:VAL:HG22	6:E:594:ARG:O	1.96	0.66
9:S:12:ILE:HG23	9:S:15:THR:O	1.96	0.66
9:T:170:LEU:CD1	9:T:229:PHE:CD2	2.77	0.66
9:U:160:GLU:HB3	9:U:298:ARG:HB3	1.78	0.66
9:V:112:PHE:CE1	9:V:116:TYR:HB3	2.31	0.66
9:V:200:TYR:HE2	9:V:224:ASN:HB3	1.60	0.66
10:X:134:GLU:CA	10:X:137:ILE:HD12	2.26	0.66
3:A:102:LEU:HD11	3:A:110:LYS:CG	2.26	0.66
3:A:393:LEU:O	3:A:394:ALA:C	2.36	0.66
4:B:89:GLU:O	4:B:92:GLN:N	2.29	0.66
4:B:98:TRP:O	4:B:102:SER:OG	2.10	0.66
4:B:101:THR:HG22	4:B:421:GLY:N	2.10	0.66
4:B:166:GLY:C	4:B:167:LEU:HG	2.20	0.66
4:B:330:LEU:HD13	4:B:1011:LEU:HD12	1.71	0.66
4:B:359:LEU:HG	4:B:386:ILE:CD1	2.26	0.66
4:B:490:LEU:HA	4:B:876:ILE:CD1	2.25	0.66
4:B:574:LEU:HD12	4:B:574:LEU:N	2.11	0.66
5:C:38:ASN:CG	5:C:39:ALA:N	2.48	0.66
5:C:61:VAL:CG1	5:C:63:HIS:HB3	2.26	0.66
5:C:72:ARG:CG	5:C:129:THR:CG2	2.72	0.66
5:D:108:THR:HG1	5:D:110:SER:HG	1.43	0.66
6:E:47:TYR:HD1	6:E:47:TYR:H	1.40	0.66
6:E:146:VAL:HA	6:E:161:LEU:HA	1.77	0.66
6:E:277:ARG:CZ	8:G:228:THR:HA	2.26	0.66
6:E:407:LEU:CA	6:E:410:ARG:HB3	2.24	0.66
8:G:333:GLU:HB2	8:G:337:LEU:HD11	1.77	0.66
8:G:353:GLU:HB3	8:G:357:ILE:CG1	2.25	0.66
9:S:64:LEU:HB2	9:S:68:ARG:HD3	1.78	0.66
9:S:196:PHE:CB	9:S:203:GLN:HE21	1.98	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:294:TRP:CE3	9:S:298:ARG:NH2	2.63	0.66
9:T:241:LEU:HD21	9:T:272:LEU:CD2	2.19	0.66
9:U:12:ILE:HG23	9:U:18:PHE:CG	2.26	0.66
9:U:92:LEU:CD2	9:U:287:ILE:CD1	2.74	0.66
9:U:151:LEU:HD22	9:U:279:VAL:HA	1.78	0.66
9:U:197:LYS:HB2	9:U:224:ASN:CA	2.24	0.66
9:U:204:ARG:C	9:U:208:GLU:HG3	2.21	0.66
9:U:204:ARG:HB3	9:U:207:GLN:HE21	1.61	0.66
9:V:97:ILE:HG23	9:V:202:MET:HG2	1.76	0.66
9:V:159:VAL:HA	9:V:278:MET:CG	2.25	0.66
9:V:189:VAL:O	9:V:193:GLN:CD	2.39	0.66
9:V:261:LEU:O	9:V:261:LEU:HG	1.95	0.66
10:Y:212:VAL:HG22	10:Y:218:LEU:HD21	1.76	0.66
1:1:100:DA:C5	8:G:202:LYS:CE	2.74	0.66
3:A:81:VAL:HG22	3:A:123:THR:HG23	1.78	0.66
3:A:393:LEU:O	3:A:396:LEU:N	2.28	0.66
3:A:573:LEU:HD23	3:A:574:VAL:HA	1.78	0.66
3:A:926:GLU:HB2	3:A:929:ARG:HG3	1.77	0.66
3:A:1057:LYS:O	3:A:1059:LYS:HG2	1.95	0.66
4:B:53:VAL:CG1	4:B:54:ASP:H	2.06	0.66
4:B:296:GLN:CD	4:B:296:GLN:C	2.61	0.66
4:B:330:LEU:HD13	4:B:1011:LEU:N	2.11	0.66
4:B:381:SER:HB3	4:B:429:LEU:HD12	1.77	0.66
4:B:437:ASN:O	4:B:438:THR:OG1	2.14	0.66
4:B:895:ARG:NH2	4:B:989:GLN:NE2	2.44	0.66
4:B:1216:THR:N	4:B:1219:VAL:HG11	2.09	0.66
4:B:1218:ARG:CD	6:E:122:PRO:HD2	2.22	0.66
4:B:1222:GLU:HG3	6:E:124:TYR:CE2	2.30	0.66
5:C:95:GLN:HB3	5:C:115:PRO:HG3	1.78	0.66
5:C:156:GLU:HA	5:C:163:PHE:HZ	1.61	0.66
6:E:46:ASN:ND2	6:E:49:THR:HG1	1.94	0.66
6:E:287:ALA:O	6:E:290:GLN:HG2	1.95	0.66
8:G:222:ILE:CG1	8:G:223:ALA:N	2.59	0.66
9:S:151:LEU:HB3	9:U:20:LYS:HE3	1.76	0.66
9:S:226:LEU:HD22	9:U:227:ASP:CG	2.21	0.66
9:V:128:SER:OG	9:V:204:ARG:CG	2.44	0.66
10:X:128:SER:C	10:X:132:GLN:HG2	2.21	0.66
3:A:65:LEU:HD21	3:A:361:PRO:HG3	1.77	0.66
3:A:419:VAL:HG23	3:A:420:ARG:N	2.10	0.66
3:A:598:VAL:O	3:A:660:GLY:N	2.24	0.66
3:A:1043:ASP:OD1	3:A:1068:GLU:HG2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:46:ARG:HH11	4:B:46:ARG:HG3	1.61	0.66
4:B:603:PHE:CE2	4:B:781:ARG:HD3	2.31	0.66
4:B:648:VAL:HG22	4:B:662:LYS:HE3	1.78	0.66
4:B:773:ARG:O	4:B:791:LEU:HA	1.96	0.66
4:B:786:GLU:HB3	4:B:788:VAL:HG12	1.78	0.66
5:C:176:VAL:HA	5:C:198:VAL:HA	1.78	0.66
6:E:59:CYS:SG	6:E:62:ILE:HD11	2.36	0.66
6:E:91:VAL:C	6:E:92:GLU:CD	2.63	0.66
7:F:31:ILE:HA	7:F:34:GLN:NE2	2.11	0.66
7:F:32:THR:O	7:F:33:VAL:C	2.36	0.66
9:T:116:TYR:HB2	9:T:117:PRO:HD3	1.77	0.66
9:T:281:THR:HG23	9:T:283:ASP:H	1.60	0.66
9:U:45:LEU:HD12	9:U:63:LEU:CB	2.16	0.66
9:U:99:SER:OG	9:U:100:LEU:HD12	1.96	0.66
9:U:142:LEU:CD1	9:U:293:PHE:HD2	2.07	0.66
9:V:90:PRO:HB3	9:V:116:TYR:HE2	1.61	0.66
10:Y:86:SER:HB2	10:Y:88:ARG:HG3	1.78	0.66
10:Y:170:ILE:CD1	10:Y:210:ILE:HB	2.25	0.66
1:1:50:DA:H2"	1:1:51:DT:H71	0.71	0.66
3:A:161:TYR:CE2	3:A:308:GLU:HA	2.30	0.66
3:A:370:LEU:HD12	3:A:370:LEU:N	2.11	0.66
3:A:401:ARG:HB2	3:A:444:ILE:HG23	1.78	0.66
3:A:542:ILE:HD13	3:A:545:LEU:CD1	2.26	0.66
3:A:574:VAL:HG22	3:A:575:GLY:N	2.09	0.66
3:A:1041:LYS:HE2	6:E:356:TYR:CB	2.26	0.66
3:A:1084:ILE:O	3:A:1084:ILE:HG23	1.94	0.66
4:B:212:ILE:HG22	4:B:296:GLN:HG3	1.77	0.66
4:B:243:VAL:HG12	4:B:263:PRO:HA	1.78	0.66
4:B:416:GLN:HG3	4:B:417:GLN:H	1.61	0.66
4:B:513:THR:OG1	4:B:515:LEU:HD23	1.96	0.66
5:C:182:GLU:OE2	5:C:183:VAL:O	2.13	0.66
5:D:57:ARG:CZ	5:D:155:ARG:HH12	2.09	0.66
5:D:212:SER:O	5:D:215:GLY:N	2.28	0.66
6:E:419:LEU:O	6:E:423:ILE:CG2	2.26	0.66
6:E:459:LEU:HD11	6:E:508:THR:C	2.21	0.66
6:E:485:ALA:O	6:E:486:GLU:C	2.37	0.66
9:T:167:ILE:CG2	9:T:241:LEU:HD13	2.22	0.66
9:U:106:PRO:HA	9:U:109:LEU:HD12	1.77	0.66
9:U:125:SER:O	9:U:130:ARG:NH1	2.29	0.66
10:X:55:SER:HB3	10:X:63:GLU:CG	2.26	0.66
10:Y:168:ILE:N	10:Y:212:VAL:O	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:73:LYS:O	3:A:96:TYR:HB2	1.96	0.65
3:A:221:LYS:NZ	3:A:225:LYS:HE3	2.11	0.65
3:A:418:ALA:O	3:A:419:VAL:C	2.40	0.65
3:A:568:LYS:HZ1	3:A:713:ILE:HG12	1.56	0.65
3:A:616:THR:HG23	3:A:617:ALA:N	2.10	0.65
3:A:737:THR:CA	3:A:773:VAL:CG2	2.74	0.65
3:A:738:ARG:HH12	3:A:753:GLU:CD	1.99	0.65
3:A:787:LEU:HG	3:A:788:LEU:N	2.11	0.65
3:A:986:VAL:HG12	6:E:361:VAL:HG21	1.77	0.65
3:A:1063:ARG:CG	3:A:1064:PRO:HD2	2.24	0.65
4:B:10:LYS:HZ3	4:B:14:ARG:NE	1.91	0.65
4:B:89:GLU:C	4:B:370:THR:HA	2.21	0.65
4:B:195:TYR:HD1	4:B:198:ARG:HD3	1.60	0.65
4:B:227:GLU:H	4:B:232:LEU:HB2	1.61	0.65
4:B:413:VAL:HG13	4:B:423:LEU:O	1.96	0.65
4:B:654:VAL:CB	4:B:659:GLU:HG3	2.25	0.65
4:B:922:ILE:HG23	4:B:928:LEU:HD13	1.78	0.65
5:C:112:PHE:CD2	5:C:113:ASP:N	2.60	0.65
6:E:430:LEU:CB	6:E:473:MET:HE1	2.20	0.65
6:E:587:LEU:HD23	6:E:589:LYS:HA	1.78	0.65
8:G:206:PHE:CB	8:G:210:ALA:HB2	2.27	0.65
8:G:225:GLN:HG3	8:G:226:SER:N	2.09	0.65
8:G:285:SER:HB3	8:G:288:THR:HB	1.77	0.65
9:T:156:ASP:C	9:T:294:TRP:CG	2.74	0.65
9:V:175:HIS:ND1	9:V:233:VAL:C	2.48	0.65
3:A:29:ASP:OD1	3:A:31:ILE:HG22	1.97	0.65
3:A:112:GLN:NE2	3:A:362:ALA:HB2	2.10	0.65
3:A:140:GLN:HE21	3:A:326:ARG:HG2	1.60	0.65
3:A:490:VAL:N	3:A:511:ARG:O	2.29	0.65
3:A:556:GLY:HA3	3:A:857:GLY:N	2.11	0.65
3:A:580:ALA:N	3:A:581:GLN:OE1	2.29	0.65
3:A:599:VAL:H	3:A:607:ARG:HH21	1.44	0.65
3:A:787:LEU:HB2	3:A:791:ILE:CG1	2.26	0.65
4:B:18:SER:HA	4:B:21:PHE:CE2	2.31	0.65
4:B:41:PHE:O	4:B:43:TYR:N	2.29	0.65
4:B:692:LEU:N	4:B:736:LEU:O	2.18	0.65
4:B:694:VAL:CG1	4:B:730:SER:HB2	2.26	0.65
4:B:896:ARG:CD	4:B:986:ASP:HB3	2.26	0.65
4:B:1097:PHE:HZ	4:B:1112:HIS:CD2	2.14	0.65
5:C:57:ARG:CD	5:C:162:ASP:OD1	2.42	0.65
5:C:102:ASN:HD22	5:C:135:LYS:N	1.92	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:108:THR:HG1	5:C:111:HIS:N	1.94	0.65
5:C:198:VAL:C	5:C:199:TRP:HD1	2.04	0.65
5:D:82:MET:O	5:D:85:VAL:N	2.22	0.65
5:D:204:ILE:HG23	5:D:208:GLU:HB2	1.76	0.65
7:F:60:ARG:O	7:F:64:GLU:OE1	2.14	0.65
8:G:94:LEU:HD23	8:G:94:LEU:O	1.95	0.65
8:G:119:ARG:HA	8:G:122:GLU:OE2	1.95	0.65
8:G:121:SER:OG	8:G:122:GLU:N	2.24	0.65
8:G:193:ARG:HG3	8:G:213:TRP:CE3	2.31	0.65
9:T:209:LYS:HA	9:T:212:ARG:CB	2.27	0.65
9:U:156:ASP:O	9:U:157:MET:HB3	1.95	0.65
9:V:147:ASN:HD21	9:V:151:LEU:HA	1.61	0.65
10:Y:49:LYS:HD2	10:Y:99:GLU:OE1	1.96	0.65
2:2:80:DT:H72	9:S:29:GLN:O	1.96	0.65
3:A:81:VAL:HG21	3:A:123:THR:HG22	1.75	0.65
3:A:558:ASN:CA	3:A:561:ARG:HD2	2.25	0.65
3:A:1053:ASN:O	3:A:1054:ALA:C	2.39	0.65
4:B:90:ARG:O	4:B:91:PHE:C	2.40	0.65
4:B:122:VAL:HA	4:B:125:MET:CE	2.26	0.65
4:B:251:PRO:HG2	4:B:253:THR:OG1	1.97	0.65
4:B:408:SER:C	4:B:410:ILE:H	2.03	0.65
4:B:412:ILE:CG2	4:B:413:VAL:H	2.10	0.65
4:B:455:PHE:HB3	4:B:458:VAL:O	1.96	0.65
4:B:853:THR:CG2	4:B:876:ILE:CG2	2.55	0.65
4:B:853:THR:HG22	4:B:876:ILE:CB	2.25	0.65
5:C:82:MET:O	5:C:85:VAL:HG22	1.97	0.65
5:C:221:PHE:CE1	5:D:36:VAL:CA	2.77	0.65
5:D:9:VAL:HG23	5:D:22:LYS:O	1.96	0.65
5:D:91:SER:O	5:D:93:GLN:N	2.30	0.65
5:D:182:GLU:CA	5:D:192:ASP:OD1	2.44	0.65
6:E:46:ASN:ND2	6:E:49:THR:O	2.29	0.65
6:E:47:TYR:CD2	6:E:48:ARG:N	2.65	0.65
6:E:171:GLU:N	6:E:171:GLU:OE1	2.23	0.65
6:E:432:ARG:NH1	6:E:465:ASN:HB3	2.10	0.65
8:G:106:LYS:HE3	8:G:150:ILE:HG22	1.78	0.65
8:G:135:GLU:HG3	8:G:139:LEU:CG	2.25	0.65
9:S:167:ILE:HG22	9:S:209:LYS:HD2	1.77	0.65
9:S:200:TYR:CZ	9:S:202:MET:HB2	2.24	0.65
9:T:77:ALA:O	9:T:80:GLU:HB3	1.96	0.65
9:U:31:THR:CB	9:U:34:ARG:HH11	2.09	0.65
9:U:142:LEU:HD21	9:U:294:TRP:CG	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:206:VAL:HG12	9:U:274:ARG:NH1	2.07	0.65
10:X:55:SER:HB3	10:X:63:GLU:HG3	1.76	0.65
10:Y:47:LEU:O	10:Y:74:VAL:HA	1.97	0.65
10:Y:136:MET:HE1	10:Y:152:PHE:HB2	1.78	0.65
2:2:87:DT:H2"	2:2:88:DT:C5	2.32	0.65
3:A:30:LEU:HD22	3:A:400:ARG:HH11	1.61	0.65
3:A:268:ASP:OD1	3:A:269:LEU:N	2.29	0.65
3:A:357:GLU:HG2	3:A:358:VAL:HG13	1.77	0.65
3:A:772:LYS:HB3	3:A:803:SER:HA	1.78	0.65
3:A:1034:LEU:N	3:A:1034:LEU:HD22	2.11	0.65
3:A:1087:HIS:O	6:E:10:ASP:HB3	1.97	0.65
4:B:225:MET:CB	4:B:238:ARG:NH1	2.53	0.65
4:B:973:ARG:HG2	4:B:974:VAL:H	1.62	0.65
4:B:1019:GLU:HB2	4:B:1021:ARG:HD3	1.77	0.65
4:B:1225:ILE:HB	4:B:1226:GLU:OE2	1.97	0.65
6:E:158:TYR:CZ	6:E:159:LYS:HD3	2.31	0.65
6:E:520:LEU:HA	6:E:553:HIS:HE1	1.61	0.65
7:F:29:TYR:O	7:F:32:THR:N	2.30	0.65
8:G:210:ALA:O	8:G:211:THR:C	2.38	0.65
8:G:307:GLU:OE2	8:G:311:ASP:HB3	1.97	0.65
9:S:85:ILE:HB	9:S:89:GLN:HA	1.76	0.65
9:S:105:LEU:HD12	9:S:105:LEU:O	1.97	0.65
9:T:185:TRP:O	9:T:272:LEU:N	2.30	0.65
9:T:192:PRO:HB2	9:T:238:LEU:CD2	2.25	0.65
9:T:227:ASP:HB2	9:V:98:HIS:HB2	1.79	0.65
9:U:92:LEU:HD21	9:U:287:ILE:HD12	1.78	0.65
9:U:157:MET:HB2	9:U:295:GLN:HB3	1.78	0.65
9:U:162:LEU:HB3	9:U:277:VAL:HB	1.77	0.65
3:A:147:VAL:O	3:A:148:TYR:CD1	2.50	0.65
3:A:199:LEU:HD21	3:A:227:GLY:CA	2.27	0.65
3:A:309:TYR:HD2	3:A:311:ILE:CG1	2.10	0.65
3:A:1001:VAL:HG13	3:A:1002:THR:N	2.05	0.65
4:B:101:THR:CB	4:B:420:LYS:HB2	2.25	0.65
4:B:295:CYS:HB2	4:B:298:CYS:H	1.61	0.65
4:B:532:LYS:N	4:B:842:ARG:HG2	2.12	0.65
4:B:650:ASP:HB3	4:B:674:VAL:CG2	2.25	0.65
4:B:1110:ALA:O	4:B:1111:SER:C	2.39	0.65
4:B:1218:ARG:NH1	6:E:122:PRO:CG	2.58	0.65
5:D:180:VAL:HG12	5:D:194:LEU:CD1	2.25	0.65
6:E:105:TYR:CE1	6:E:250:PRO:CB	2.77	0.65
6:E:125:ILE:HD11	6:E:244:MET:SD	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:226:LYS:O	6:E:227:ARG:C	2.36	0.65
6:E:252:ILE:HG23	6:E:253:PRO:HD2	1.78	0.65
6:E:585:THR:OG1	6:E:594:ARG:HG3	1.97	0.65
7:F:30:ARG:O	7:F:34:GLN:OE1	2.15	0.65
7:F:62:ILE:HB	7:F:63:ILE:HG23	1.79	0.65
8:G:333:GLU:HG3	8:G:372:ALA:HB2	1.77	0.65
9:S:73:GLU:CG	9:T:66:ARG:HB2	2.14	0.65
9:S:74:TRP:CE3	9:S:78:THR:OG1	2.49	0.65
9:S:79:GLN:C	9:S:80:GLU:HG3	2.21	0.65
9:S:150:PHE:CD2	9:S:157:MET:HE1	2.30	0.65
9:S:297:VAL:O	9:S:301:ILE:HG13	1.96	0.65
9:T:230:ARG:HG3	9:V:101:CYS:SG	2.36	0.65
9:U:147:ASN:C	9:U:149:ARG:H	2.03	0.65
10:X:56:ARG:HD2	10:X:57:VAL:CA	2.26	0.65
10:X:179:ILE:HG22	10:X:185:SER:OG	1.96	0.65
10:Y:30:ARG:HB3	10:Y:95:PHE:C	2.21	0.65
3:A:486:ASP:OD2	3:A:488:LEU:HB3	1.97	0.65
3:A:577:GLY:O	3:A:578:LEU:HD12	1.96	0.65
3:A:700:ASP:HB2	6:E:468:PHE:O	1.97	0.65
3:A:761:ALA:H	3:A:814:VAL:HG12	1.61	0.65
3:A:852:MET:CB	3:A:981:LYS:HA	2.26	0.65
3:A:993:ARG:NH2	3:A:1012:GLN:O	2.30	0.65
4:B:366:ARG:HH11	4:B:370:THR:HG22	1.62	0.65
4:B:913:LYS:HG2	4:B:914:PRO:CD	2.27	0.65
4:B:1019:GLU:OE2	4:B:1197:ILE:HG13	1.97	0.65
5:C:9:VAL:HG23	5:C:22:LYS:O	1.96	0.65
5:C:151:VAL:C	5:C:152:GLU:HG3	2.22	0.65
5:C:226:ASP:OD2	5:D:214:ALA:HB1	1.95	0.65
7:F:36:ALA:C	7:F:39:ALA:H	2.05	0.65
8:G:108:ALA:O	8:G:112:GLU:OE1	2.14	0.65
8:G:293:GLU:N	8:G:293:GLU:OE1	2.30	0.65
9:T:126:LEU:HD13	9:T:131:ALA:HA	1.77	0.65
9:T:190:ARG:H	9:T:215:ALA:CB	2.00	0.65
9:U:287:ILE:C	9:U:291:LYS:HG2	2.22	0.65
10:Y:150:VAL:HG13	10:Y:218:LEU:HD11	1.74	0.65
1:1:94:DT:OP1	8:G:232:PRO:CG	2.45	0.65
3:A:470:ARG:HD2	3:A:502:TYR:HE1	1.62	0.65
3:A:687:VAL:HG13	3:A:881:ASP:OD1	1.97	0.65
3:A:691:MET:HE3	3:A:972:VAL:HG11	1.78	0.65
3:A:881:ASP:C	3:A:882:ILE:HD12	2.21	0.65
3:A:959:VAL:HG12	3:A:968:PHE:CD2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1045:MET:HE1	3:A:1068:GLU:OE2	1.95	0.65
4:B:87:GLU:N	4:B:89:GLU:OE1	2.29	0.65
4:B:258:ALA:HA	4:B:262:THR:HG21	1.79	0.65
4:B:541:THR:HB	4:B:760:GLN:HE21	1.62	0.65
4:B:596:TYR:CE1	4:B:744:PHE:HB2	2.31	0.65
4:B:1045:GLU:CG	4:B:1046:ALA:H	1.98	0.65
5:D:77:GLU:HA	5:D:80:MET:SD	2.37	0.65
6:E:458:PRO:O	6:E:459:LEU:C	2.36	0.65
8:G:89:ILE:HA	8:G:92:ILE:HG13	1.78	0.65
8:G:219:THR:O	8:G:222:ILE:N	2.30	0.65
8:G:339:LEU:HD22	8:G:343:LEU:CD2	2.24	0.65
9:S:104:TYR:CE1	9:S:303:PRO:HA	2.32	0.65
9:S:136:LYS:CB	9:S:152:THR:HB	2.15	0.65
9:T:131:ALA:O	9:T:134:VAL:HG22	1.96	0.65
9:T:142:LEU:HD13	9:T:293:PHE:CE2	2.32	0.65
9:U:296:LEU:HD13	9:U:300:ASN:HD22	1.61	0.65
9:V:264:SER:HA	9:V:269:ASN:CA	2.26	0.65
10:X:94:ALA:HB1	10:X:96:THR:H	1.62	0.65
10:Y:56:ARG:HD2	10:Y:57:VAL:CA	2.26	0.65
1:1:28:DT:H4'	1:1:29:DC:H5'	1.78	0.65
3:A:83:GLU:O	3:A:86:ARG:HB2	1.96	0.65
3:A:100:ARG:NE	3:A:100:ARG:HA	2.12	0.65
3:A:200:LYS:CA	3:A:233:GLU:HA	2.17	0.65
3:A:438:GLY:H	3:A:441:ALA:HB2	1.62	0.65
3:A:520:THR:N	3:A:522:GLU:OE1	2.27	0.65
3:A:762:TRP:HZ2	3:A:811:LYS:HG2	1.13	0.65
3:A:949:TYR:HE1	3:A:954:PRO:HA	1.62	0.65
3:A:1038:LEU:HD12	6:E:352:LYS:CE	2.27	0.65
4:B:134:ILE:HB	4:B:348:GLN:HB3	1.79	0.65
4:B:146:LEU:CD1	4:B:158:PRO:CB	2.69	0.65
4:B:543:SER:HB3	4:B:760:GLN:H	1.62	0.65
4:B:673:GLU:OE2	4:B:739:ARG:NH1	2.30	0.65
4:B:851:GLY:CA	4:B:877:LEU:CD1	2.39	0.65
5:C:24:ILE:HG22	5:C:25:LEU:N	2.12	0.65
8:G:218:ILE:HG13	8:G:219:THR:H	1.56	0.65
8:G:353:GLU:C	8:G:357:ILE:HG12	2.21	0.65
9:S:132:LEU:HD23	9:S:150:PHE:N	2.11	0.65
9:S:197:LYS:N	9:S:203:GLN:HG3	2.12	0.65
9:T:32:ILE:CD1	9:T:35:GLN:OE1	2.45	0.65
9:T:146:MET:SD	9:T:274:ARG:CB	2.81	0.65
9:T:157:MET:CB	9:T:294:TRP:CZ3	2.80	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:138:GLY:C	9:U:140:VAL:O	2.39	0.65
9:V:9:PHE:HE2	9:V:59:GLY:CA	2.10	0.65
9:V:262:ALA:C	9:V:264:SER:N	2.51	0.65
10:X:46:PHE:CB	10:X:101:LEU:HD13	2.25	0.65
10:X:47:LEU:CB	10:X:69:LEU:HD23	2.23	0.65
10:Y:110:GLN:O	10:Y:114:GLU:HG3	1.97	0.65
3:A:86:ARG:HA	3:A:818:ARG:NH2	2.12	0.65
3:A:463:PHE:CG	3:A:481:THR:CG2	2.78	0.65
3:A:616:THR:HA	3:A:633:GLN:HB2	1.79	0.65
3:A:749:ARG:NH1	3:A:749:ARG:H	1.94	0.65
4:B:157:LEU:HD12	4:B:158:PRO:HD2	1.78	0.65
4:B:631:TRP:O	4:B:742:VAL:HG12	1.97	0.65
5:C:31:GLY:HA2	5:C:34:THR:HG23	1.78	0.65
6:E:91:VAL:N	6:E:92:GLU:OE2	2.30	0.65
6:E:371:HIS:HA	6:E:493:ALA:HB3	1.79	0.65
6:E:407:LEU:HD11	6:E:415:VAL:HG22	1.79	0.65
6:E:412:ASP:CG	6:E:414:SER:N	2.55	0.65
9:T:105:LEU:HD12	9:T:296:LEU:HD21	1.77	0.65
9:U:196:PHE:CZ	9:U:229:PHE:HB3	2.32	0.65
9:U:247:LEU:HD12	9:U:251:ARG:HB2	1.78	0.65
9:V:60:GLY:HA2	9:V:63:LEU:CB	2.21	0.65
9:V:98:HIS:HD1	9:V:202:MET:HG3	1.60	0.65
9:V:206:VAL:CG2	9:V:209:LYS:CD	2.62	0.65
10:X:110:GLN:O	10:X:114:GLU:HG3	1.97	0.65
2:2:64:DA:C2	2:2:65:DA:C6	2.85	0.65
3:A:819:LEU:HD11	3:A:835:VAL:O	1.96	0.65
3:A:998:TYR:HE2	3:A:1048:ARG:NH1	1.95	0.65
4:B:505:GLU:HA	4:B:880:GLU:O	1.96	0.65
4:B:558:GLY:C	4:B:559:ARG:HD3	2.21	0.65
4:B:563:LEU:HB3	4:B:572:PHE:O	1.97	0.65
4:B:575:ARG:H	4:B:589:ALA:N	1.95	0.65
5:C:59:ALA:HB2	5:C:162:ASP:HB3	1.79	0.65
5:C:91:SER:O	5:C:93:GLN:N	2.30	0.65
5:D:176:VAL:HG23	5:D:198:VAL:HG12	1.79	0.65
6:E:105:TYR:HE1	6:E:250:PRO:CB	2.09	0.65
6:E:261:GLN:HG3	6:E:267:PHE:CZ	2.32	0.65
6:E:274:ASP:HA	6:E:277:ARG:HB2	1.79	0.65
6:E:290:GLN:N	6:E:290:GLN:NE2	2.45	0.65
6:E:354:VAL:HG22	6:E:355:ASP:N	2.10	0.65
6:E:609:THR:CG2	6:E:612:ARG:H	2.00	0.65
8:G:84:LEU:O	8:G:85:TYR:C	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:234:ARG:HH22	9:U:252:LEU:HD22	1.60	0.65
9:T:3:LEU:HD21	9:T:70:ILE:HD11	1.79	0.65
9:U:284:ARG:NE	9:U:290:ILE:HG21	2.11	0.65
9:V:163:TYR:HB3	9:V:274:ARG:CG	2.27	0.65
9:V:206:VAL:HA	9:V:209:LYS:HB2	1.78	0.65
10:Y:26:GLU:O	10:Y:100:LEU:N	2.30	0.65
10:Y:47:LEU:CG	10:Y:75:PHE:CE2	2.80	0.65
3:A:140:GLN:HA	3:A:403:SER:O	1.97	0.64
3:A:304:LEU:HD22	3:A:307:LEU:CD1	2.26	0.64
3:A:420:ARG:NH1	3:A:441:ALA:O	2.26	0.64
3:A:607:ARG:HA	3:A:609:ARG:HH11	1.63	0.64
3:A:664:VAL:HG21	3:A:667:GLN:HG3	1.78	0.64
3:A:998:TYR:CE2	3:A:1048:ARG:CZ	2.76	0.64
4:B:33:ALA:CA	4:B:37:LYS:NZ	2.30	0.64
4:B:62:LYS:HZ1	4:B:143:MET:HG2	1.62	0.64
4:B:100:GLY:O	4:B:101:THR:C	2.41	0.64
4:B:146:LEU:HG	4:B:154:ILE:HD13	1.79	0.64
4:B:183:LEU:O	4:B:186:THR:HB	1.96	0.64
4:B:358:LYS:CG	4:B:391:LYS:N	2.57	0.64
4:B:439:GLU:O	4:B:1000:GLU:HA	1.97	0.64
4:B:481:TRP:NE1	4:B:971:PRO:HB2	2.06	0.64
4:B:503:ARG:CZ	4:B:505:GLU:HB3	2.27	0.64
4:B:512:GLU:OE2	4:B:873:ARG:HD3	1.97	0.64
4:B:563:LEU:HA	4:B:573:ASN:CA	2.25	0.64
4:B:598:THR:HG21	4:B:631:TRP:HE1	1.62	0.64
4:B:821:ASP:OD2	4:B:829:ARG:HG3	1.96	0.64
5:C:63:HIS:CE1	5:C:65:PHE:HD1	2.15	0.64
5:C:140:PHE:HE2	5:C:142:ILE:HD11	1.62	0.64
5:C:178:TYR:CD1	5:C:178:TYR:C	2.74	0.64
8:G:115:ARG:NH1	8:G:119:ARG:HH22	1.95	0.64
8:G:298:LEU:HD12	8:G:301:PHE:CD2	2.33	0.64
8:G:320:GLU:O	8:G:323:GLU:HG2	1.96	0.64
9:S:116:TYR:HB3	9:S:119:VAL:HG21	1.79	0.64
9:T:251:ARG:NE	9:T:258:VAL:HB	2.12	0.64
9:U:143:ALA:O	9:U:293:PHE:CE2	2.50	0.64
9:U:298:ARG:N	9:U:302:PRO:HG2	2.05	0.64
3:A:464:ARG:O	3:A:527:VAL:HG12	1.96	0.64
3:A:584:ARG:HG3	3:A:668:VAL:HG23	1.79	0.64
3:A:656:LEU:HG	3:A:657:VAL:N	2.12	0.64
3:A:727:ARG:HH12	3:A:729:THR:CA	2.04	0.64
3:A:728:GLN:OE1	3:A:833:ASN:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:798:ASP:O	3:A:799:VAL:C	2.41	0.64
4:B:44:ALA:O	4:B:45:THR:C	2.40	0.64
4:B:199:ARG:CD	4:B:1214:GLN:CG	2.75	0.64
4:B:251:PRO:HB2	4:B:253:THR:HG23	1.80	0.64
4:B:285:PRO:C	4:B:1146:ARG:CD	2.70	0.64
4:B:479:LEU:N	4:B:481:TRP:CZ3	2.61	0.64
4:B:488:TYR:HB3	4:B:490:LEU:HD21	1.78	0.64
4:B:524:ARG:HH11	4:B:818:LEU:HD21	1.52	0.64
4:B:764:ARG:NH1	4:B:808:ASN:OD1	2.30	0.64
4:B:896:ARG:CD	4:B:986:ASP:C	2.64	0.64
5:C:39:ALA:O	5:C:43:VAL:HG12	1.97	0.64
5:C:177:ASN:CG	5:C:178:TYR:N	2.54	0.64
5:D:63:HIS:CE1	5:D:65:PHE:HD1	2.15	0.64
6:E:252:ILE:HD12	6:E:334:LEU:HD13	1.79	0.64
6:E:287:ALA:C	6:E:290:GLN:HE21	2.05	0.64
6:E:287:ALA:CA	6:E:290:GLN:HE21	2.10	0.64
9:S:81:LEU:HD13	9:S:81:LEU:N	2.12	0.64
9:T:123:VAL:HG11	9:V:225:THR:HG23	1.78	0.64
9:V:167:ILE:HG21	9:V:209:LYS:CE	2.27	0.64
9:V:167:ILE:HD13	9:V:243:PRO:HG3	1.78	0.64
9:V:210:PHE:HD2	9:V:217:LEU:CA	2.10	0.64
10:X:34:ILE:N	10:X:91:HIS:CE1	2.61	0.64
10:Y:212:VAL:CB	10:Y:218:LEU:HD23	2.25	0.64
2:2:97:DG:P	9:S:155:ARG:HE	2.19	0.64
3:A:264:PRO:O	3:A:266:ARG:N	2.30	0.64
3:A:516:PHE:CE1	4:B:157:LEU:CB	2.51	0.64
3:A:558:ASN:HD22	3:A:561:ARG:NE	1.93	0.64
3:A:737:THR:CA	3:A:773:VAL:HG23	2.27	0.64
3:A:781:GLN:OE1	3:A:786:LYS:HB2	1.97	0.64
3:A:873:TYR:CB	3:A:879:PRO:HA	2.26	0.64
4:B:62:LYS:HZ1	4:B:143:MET:CG	2.10	0.64
4:B:287:THR:O	4:B:288:CYS:C	2.39	0.64
5:C:105:THR:H	5:C:130:ILE:HG22	1.62	0.64
6:E:125:ILE:HG12	6:E:244:MET:SD	2.37	0.64
6:E:154:GLU:O	6:E:155:THR:OG1	2.12	0.64
6:E:389:ILE:HG21	6:E:405:LYS:HE3	1.64	0.64
6:E:481:LEU:O	6:E:484:GLN:N	2.28	0.64
7:F:62:ILE:O	7:F:65:MET:N	2.30	0.64
8:G:353:GLU:HB3	8:G:357:ILE:HG13	1.79	0.64
9:S:85:ILE:HD12	9:S:89:GLN:O	1.98	0.64
9:S:144:ILE:HG23	9:S:276:VAL:HA	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:183:VAL:H	9:T:261:LEU:CD1	2.08	0.64
9:V:70:ILE:O	9:V:73:GLU:HB2	1.97	0.64
9:V:92:LEU:HD22	9:V:294:TRP:HA	1.80	0.64
10:X:123:LEU:HG	10:Y:123:LEU:CD2	2.28	0.64
10:X:173:LYS:HA	10:X:208:LYS:HB2	1.80	0.64
10:X:180:ALA:HA	10:X:185:SER:HB2	1.78	0.64
10:Y:55:SER:HB3	10:Y:63:GLU:CG	2.26	0.64
3:A:74:LEU:HD13	3:A:93:VAL:HG21	1.79	0.64
3:A:420:ARG:HH22	3:A:441:ALA:C	2.06	0.64
3:A:532:VAL:HG12	3:A:535:VAL:HG13	1.79	0.64
3:A:650:CYS:SG	3:A:717:ILE:CD1	2.86	0.64
3:A:739:GLU:N	3:A:739:GLU:OE1	2.31	0.64
3:A:998:TYR:CE2	3:A:1048:ARG:NH1	2.66	0.64
3:A:1017:PHE:CD2	3:A:1017:PHE:C	2.70	0.64
4:B:24:TYR:CB	4:B:29:THR:HG21	2.12	0.64
4:B:461:GLU:HB2	4:B:473:THR:OG1	1.98	0.64
4:B:728:VAL:HG22	4:B:729:GLU:H	1.63	0.64
5:D:45:LEU:O	5:D:171:MET:SD	2.56	0.64
6:E:358:GLY:O	6:E:475:VAL:N	2.31	0.64
6:E:377:ARG:HB2	6:E:450:GLU:HG3	1.79	0.64
8:G:213:TRP:O	8:G:214:ILE:C	2.40	0.64
9:T:116:TYR:HD2	9:T:292:HIS:CE1	2.16	0.64
9:V:58:LEU:HG	9:V:61:GLU:HG2	1.76	0.64
1:1:30:DT:H2”	1:1:31:DC:C6	2.32	0.64
3:A:135:ARG:HH11	3:A:386:PHE:HE1	1.46	0.64
3:A:141:ILE:HG21	3:A:323:ARG:HB3	1.80	0.64
3:A:485:GLU:CG	3:A:486:ASP:H	1.89	0.64
3:A:489:ARG:HG3	3:A:512:TYR:HB2	1.78	0.64
3:A:525:ASP:OD1	3:A:526:TYR:CE1	2.51	0.64
3:A:723:GLU:HB2	3:A:836:VAL:O	1.98	0.64
3:A:726:ALA:HA	3:A:772:LYS:NZ	2.11	0.64
4:B:187:ALA:O	4:B:190:THR:N	2.27	0.64
4:B:384:ILE:C	4:B:405:THR:O	2.40	0.64
4:B:621:TYR:CD1	4:B:774:LEU:HB3	2.32	0.64
4:B:834:ILE:CG2	4:B:835:LEU:N	2.50	0.64
4:B:864:THR:O	4:B:864:THR:HG23	1.97	0.64
4:B:882:GLY:HA2	4:B:900:LEU:O	1.97	0.64
4:B:1096:VAL:O	4:B:1099:SER:OG	2.16	0.64
5:D:140:PHE:HE2	5:D:142:ILE:HD11	1.62	0.64
5:D:213:ALA:O	5:D:214:ALA:C	2.41	0.64
6:E:44:THR:HG21	8:G:229:ILE:HG13	1.77	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:105:TYR:CD1	6:E:250:PRO:N	2.66	0.64
6:E:390:ASN:OD1	6:E:390:ASN:C	2.38	0.64
7:F:13:GLN:HG3	7:F:16:HIS:ND1	2.12	0.64
9:T:183:VAL:HG12	9:T:187:GLU:OE1	1.97	0.64
9:T:229:PHE:CE2	9:T:256:LEU:HD13	2.33	0.64
9:U:111:LYS:HD3	9:U:292:HIS:CD2	2.33	0.64
9:U:249:GLU:O	9:U:252:LEU:N	2.31	0.64
9:V:147:ASN:HD22	9:V:155:ARG:NH2	1.90	0.64
9:V:188:LEU:HG	9:V:189:VAL:HG13	1.80	0.64
3:A:202:LEU:HD11	3:A:294:SER:HB3	1.73	0.64
3:A:280:LYS:HG2	3:A:281:LEU:CD2	2.26	0.64
3:A:302:ASP:CG	3:A:303:TYR:N	2.55	0.64
3:A:463:PHE:CB	3:A:481:THR:CG2	2.74	0.64
3:A:714:TYR:HB3	3:A:846:ILE:HG12	1.77	0.64
3:A:888:GLY:CA	3:A:892:ARG:HH12	2.02	0.64
3:A:1027:ALA:HB1	4:B:318:ILE:CG1	2.28	0.64
4:B:96:ASP:C	4:B:423:LEU:H	2.06	0.64
4:B:523:VAL:H	4:B:861:ASP:C	2.06	0.64
4:B:570:GLN:HG3	4:B:570:GLN:O	1.97	0.64
4:B:692:LEU:C	4:B:736:LEU:H	2.05	0.64
4:B:1205:ASP:HB2	4:B:1209:SER:HB2	1.78	0.64
5:C:32:GLN:CG	5:D:220:LEU:HD11	2.28	0.64
5:D:100:LEU:HD21	5:D:137:GLU:HB2	1.79	0.64
5:D:181:GLU:O	5:D:192:ASP:OD1	2.14	0.64
6:E:45:ILE:HA	6:E:53:GLU:OE1	1.96	0.64
6:E:152:ASN:HB2	6:E:156:LEU:C	2.22	0.64
6:E:403:ALA:O	6:E:406:LYS:HE2	1.96	0.64
9:S:183:VAL:HB	9:S:261:LEU:CD1	2.28	0.64
9:T:102:GLY:CA	9:T:249:GLU:HG3	2.28	0.64
9:T:226:LEU:HG	9:T:230:ARG:CZ	2.27	0.64
9:T:233:VAL:HG21	9:T:256:LEU:HD22	1.79	0.64
9:U:206:VAL:HG21	9:U:243:PRO:HG2	0.78	0.64
9:V:101:CYS:HB3	9:V:249:GLU:OE1	1.98	0.64
9:V:243:PRO:O	9:V:247:LEU:N	2.31	0.64
10:Y:47:LEU:HB2	10:Y:75:PHE:HE2	1.52	0.64
3:A:30:LEU:HD21	3:A:400:ARG:HD2	1.78	0.64
3:A:140:GLN:CD	3:A:140:GLN:C	2.66	0.64
3:A:147:VAL:C	3:A:148:TYR:CD1	2.76	0.64
3:A:206:ASP:HB3	3:A:209:ILE:HG12	1.80	0.64
3:A:522:GLU:HB2	3:A:523:GLN:OE1	1.97	0.64
3:A:769:LEU:HD11	3:A:806:VAL:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:913:ARG:HE	3:A:915:LYS:HE2	1.63	0.64
3:A:1068:GLU:HA	3:A:1071:LYS:HG3	1.80	0.64
4:B:235:LEU:HA	4:B:238:ARG:HB3	1.79	0.64
4:B:271:GLU:CD	4:B:272:ILE:HG23	2.21	0.64
4:B:417:GLN:HG2	4:B:417:GLN:O	1.98	0.64
4:B:752:VAL:HB	4:B:755:THR:HG21	1.80	0.64
4:B:819:ILE:HG13	4:B:828:GLN:HE22	1.61	0.64
4:B:1170:LEU:O	4:B:1174:GLU:OE1	2.15	0.64
5:C:32:GLN:HA	5:C:35:THR:HG23	1.79	0.64
5:D:82:MET:O	5:D:85:VAL:HG22	1.96	0.64
5:D:105:THR:H	5:D:130:ILE:HG22	1.62	0.64
6:E:154:GLU:N	6:E:154:GLU:OE1	2.30	0.64
6:E:212:GLU:CD	6:E:212:GLU:C	2.66	0.64
9:T:157:MET:HB3	9:T:282:GLN:HB3	1.80	0.64
9:V:284:ARG:HE	9:V:290:ILE:CD1	2.11	0.64
10:Y:34:ILE:N	10:Y:91:HIS:CE1	2.61	0.64
10:Y:195:GLY:HA2	10:Y:198:ARG:HE	1.62	0.64
1:1:105:DG:H1	3:A:246:GLU:HB2	1.61	0.64
3:A:40:TRP:O	3:A:41:PHE:C	2.41	0.64
3:A:44:GLU:HG2	3:A:45:GLY:HA2	1.79	0.64
3:A:274:ARG:NH1	3:A:287:ASP:HB2	2.12	0.64
3:A:374:ILE:HG13	3:A:375:LYS:N	2.12	0.64
3:A:608:VAL:O	3:A:608:VAL:HG22	1.98	0.64
3:A:609:ARG:HB3	3:A:636:ARG:HG2	1.79	0.64
3:A:706:GLU:CD	3:A:867:PRO:HA	2.21	0.64
3:A:1028:PHE:CD1	6:E:438:ARG:HD2	2.33	0.64
4:B:9:ASP:OD2	4:B:12:GLN:HG3	1.97	0.64
4:B:97:THR:HA	4:B:421:GLY:O	1.97	0.64
4:B:358:LYS:HG3	4:B:391:LYS:H	1.59	0.64
4:B:537:ILE:C	4:B:837:SER:HA	2.22	0.64
4:B:583:GLN:HA	4:B:814:ALA:HB2	1.77	0.64
4:B:623:VAL:HG12	4:B:774:LEU:HD13	1.79	0.64
4:B:646:LEU:HB2	4:B:662:LYS:CA	2.22	0.64
5:C:141:ARG:HH12	5:C:155:ARG:HB2	1.56	0.64
6:E:18:SER:O	6:E:21:ARG:N	2.31	0.64
9:S:126:LEU:HD13	9:S:131:ALA:HB1	1.70	0.64
9:T:135:LEU:HD12	9:T:143:ALA:HB3	1.80	0.64
9:T:141:ASP:C	9:T:284:ARG:HB3	2.23	0.64
9:T:146:MET:HE1	9:T:201:GLY:O	1.98	0.64
9:V:197:LYS:H	9:V:200:TYR:HD2	1.45	0.64
3:A:199:LEU:HD11	3:A:227:GLY:HA2	0.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:453:VAL:HA	3:A:459:LEU:HA	1.78	0.64
3:A:740:ILE:O	3:A:743:VAL:HG13	1.98	0.64
4:B:479:LEU:HG	4:B:973:ARG:HA	1.80	0.64
4:B:575:ARG:CZ	4:B:575:ARG:HA	2.27	0.64
4:B:937:SER:HB2	4:B:970:ARG:HA	1.80	0.64
4:B:1034:GLY:H	4:B:1053:GLU:CA	2.10	0.64
5:C:40:LEU:HA	5:C:43:VAL:HG12	1.80	0.64
5:C:189:ILE:CG2	5:C:190:PRO:CD	2.76	0.64
5:D:70:GLY:O	5:D:130:ILE:HA	1.98	0.64
6:E:404:ALA:C	6:E:406:LYS:N	2.50	0.64
6:E:459:LEU:O	6:E:461:CYS:N	2.31	0.64
6:E:485:ALA:HB2	6:E:488:ARG:CZ	2.27	0.64
6:E:541:VAL:O	6:E:542:ILE:C	2.39	0.64
8:G:178:LEU:HD11	8:G:225:GLN:HB3	1.80	0.64
9:S:135:LEU:C	9:S:138:GLY:H	2.05	0.64
9:S:207:GLN:CD	9:S:217:LEU:HB2	2.23	0.64
9:T:146:MET:HE1	9:T:205:LEU:HB3	0.64	0.64
9:T:197:LYS:CG	9:T:200:TYR:CD2	2.81	0.64
9:T:247:LEU:CB	9:T:251:ARG:HH11	2.10	0.64
9:T:251:ARG:CZ	9:T:258:VAL:HB	2.27	0.64
9:U:155:ARG:C	9:U:157:MET:HG2	2.23	0.64
9:V:175:HIS:C	9:V:177:LEU:H	2.04	0.64
10:X:26:GLU:HG3	10:X:101:LEU:O	1.97	0.64
10:Y:116:PRO:CA	10:Y:119:SER:HB2	2.20	0.64
3:A:53:PHE:CE1	3:A:265:LYS:HD3	2.32	0.64
3:A:1044:ASP:OD1	3:A:1044:ASP:C	2.39	0.64
4:B:153:GLU:CD	4:B:154:ILE:H	2.06	0.64
4:B:359:LEU:HD21	4:B:384:ILE:O	1.98	0.64
4:B:415:GLY:HA2	4:B:422:GLN:HB2	1.79	0.64
5:C:40:LEU:HD12	5:C:40:LEU:H	1.60	0.64
8:G:81:SER:HA	8:G:84:LEU:HG	1.80	0.64
9:S:46:GLU:O	9:S:57:THR:CG2	2.46	0.64
9:T:110:GLN:O	9:T:114:ARG:HG2	1.98	0.64
9:T:156:ASP:OD1	9:T:291:LYS:HA	1.98	0.64
9:U:143:ALA:HB1	9:U:145:VAL:HG13	1.80	0.64
9:U:157:MET:CE	9:U:159:VAL:C	2.71	0.64
9:V:1:MET:HE3	9:V:66:ARG:CZ	2.27	0.64
9:V:116:TYR:CD2	9:V:288:PRO:HB2	2.34	0.64
9:V:183:VAL:HG21	9:V:261:LEU:HB2	1.80	0.64
9:V:188:LEU:CD1	9:V:189:VAL:HG13	2.27	0.64
2:2:92:DA:N6	9:T:34:ARG:HD3	2.01	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:184:TRP:CE3	3:A:195:ALA:N	2.64	0.63
3:A:239:TYR:HE2	3:A:253:GLY:N	1.96	0.63
3:A:424:PRO:HG2	3:A:514:GLN:HG3	1.79	0.63
3:A:572:PRO:HG2	3:A:573:LEU:O	1.97	0.63
3:A:1006:LEU:O	3:A:1006:LEU:HG	1.98	0.63
4:B:170:THR:OG1	4:B:171:GLU:N	2.26	0.63
4:B:285:PRO:C	4:B:287:THR:N	2.52	0.63
4:B:498:VAL:HG23	4:B:884:VAL:HG11	1.80	0.63
4:B:510:LEU:HB2	4:B:877:LEU:CA	2.28	0.63
4:B:513:THR:OG1	4:B:515:LEU:CD2	2.46	0.63
4:B:944:LYS:NZ	4:B:962:TYR:OH	2.26	0.63
5:D:72:ARG:CD	5:D:129:THR:CG2	2.59	0.63
5:D:99:LEU:CD2	5:D:112:PHE:HA	2.07	0.63
5:D:215:GLY:HA2	5:D:218:VAL:HG12	1.79	0.63
6:E:268:ALA:CB	8:G:286:LEU:HB2	2.27	0.63
7:F:15:MET:O	7:F:16:HIS:CG	2.51	0.63
8:G:244:LYS:HD2	8:G:245:THR:N	2.13	0.63
8:G:255:ARG:HG2	8:G:256:LYS:N	2.12	0.63
8:G:300:ASP:N	8:G:301:PHE:CD2	2.66	0.63
9:S:17:SER:C	9:S:19:GLN:N	2.56	0.63
9:S:107:PRO:HD3	9:S:304:ILE:HD11	1.79	0.63
9:S:155:ARG:HH21	9:S:158:VAL:HG22	1.59	0.63
9:S:162:LEU:HD22	9:S:298:ARG:HA	1.80	0.63
9:T:12:ILE:HD11	9:T:18:PHE:CB	2.28	0.63
9:T:278:MET:HG3	9:T:280:THR:N	2.13	0.63
9:U:154:GLY:O	9:U:155:ARG:HG3	1.97	0.63
9:V:146:MET:SD	9:V:274:ARG:N	2.71	0.63
1:1:32:DT:H1'	1:1:33:DA:H5'	1.79	0.63
3:A:180:ASN:OD1	3:A:182:LEU:HB2	1.98	0.63
3:A:189:LYS:O	3:A:191:ARG:HG3	1.98	0.63
3:A:274:ARG:NE	3:A:289:VAL:O	2.31	0.63
3:A:707:ARG:HB2	3:A:868:ILE:HD13	1.79	0.63
3:A:940:ARG:HE	3:A:949:TYR:CB	2.07	0.63
3:A:1017:PHE:CD1	3:A:1018:GLY:N	2.66	0.63
3:A:1033:THR:OG1	3:A:1034:LEU:N	2.30	0.63
4:B:9:ASP:OD2	4:B:11:GLY:N	2.31	0.63
4:B:53:VAL:O	4:B:56:LEU:HG	1.97	0.63
4:B:97:THR:O	4:B:100:GLY:N	2.32	0.63
4:B:355:GLY:C	4:B:412:ILE:CD1	2.70	0.63
4:B:395:GLU:HA	4:B:403:HIS:CD2	2.32	0.63
4:B:412:ILE:CG1	4:B:424:LEU:HB3	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:503:ARG:HD3	4:B:503:ARG:C	2.23	0.63
4:B:854:GLN:N	4:B:875:GLN:O	2.32	0.63
4:B:913:LYS:CG	4:B:914:PRO:CD	2.74	0.63
5:C:51:THR:HG22	5:C:144:ARG:HB2	1.81	0.63
6:E:41:LYS:N	6:E:280:ILE:HD11	2.13	0.63
6:E:117:TYR:O	6:E:118:LEU:HD12	1.98	0.63
6:E:228:LEU:C	6:E:228:LEU:HD23	2.23	0.63
6:E:268:ALA:C	8:G:283:PRO:HB2	2.23	0.63
6:E:520:LEU:HD22	6:E:615:TYR:HB2	1.80	0.63
7:F:31:ILE:O	7:F:35:VAL:HG13	1.98	0.63
8:G:80:ASP:O	8:G:83:ARG:HB2	1.98	0.63
8:G:175:ASN:O	8:G:178:LEU:HB2	1.98	0.63
9:S:45:LEU:HD12	9:S:58:LEU:HB3	1.81	0.63
9:S:132:LEU:CD2	9:S:150:PHE:H	2.11	0.63
9:S:188:LEU:HD13	9:S:193:GLN:HG3	1.79	0.63
9:U:135:LEU:CD1	9:U:140:VAL:CG1	2.47	0.63
9:V:301:ILE:HB	9:V:302:PRO:HD3	1.79	0.63
3:A:335:GLN:CD	3:A:336:VAL:N	2.55	0.63
3:A:470:ARG:HH22	3:A:500:ASN:C	2.05	0.63
3:A:591:VAL:CG1	3:A:668:VAL:HG23	2.28	0.63
3:A:769:LEU:HD12	3:A:804:LEU:CB	2.20	0.63
3:A:781:GLN:HE22	3:A:786:LYS:HD3	1.62	0.63
3:A:787:LEU:HG	3:A:788:LEU:H	1.63	0.63
3:A:851:LYS:O	3:A:982:LEU:HB2	1.98	0.63
3:A:895:VAL:C	3:A:897:GLN:H	2.05	0.63
3:A:1018:GLY:C	3:A:1021:GLU:HG2	2.17	0.63
4:B:90:ARG:N	4:B:370:THR:O	2.31	0.63
4:B:157:LEU:HD21	4:B:171:GLU:H	1.62	0.63
4:B:347:GLN:OE1	4:B:351:SER:OG	2.16	0.63
4:B:439:GLU:HA	4:B:1067:GLN:NE2	2.13	0.63
4:B:496:LEU:HD21	4:B:888:GLN:O	1.97	0.63
4:B:598:THR:H	4:B:788:VAL:HA	1.64	0.63
4:B:627:GLY:HA2	4:B:745:ALA:CA	2.27	0.63
4:B:852:SER:O	4:B:876:ILE:HA	1.98	0.63
5:C:53:VAL:HG11	5:C:82:MET:HE1	1.81	0.63
5:C:63:HIS:CD2	5:C:66:ALA:H	2.16	0.63
5:D:57:ARG:NH2	5:D:155:ARG:NH2	2.46	0.63
9:S:17:SER:CB	9:S:19:GLN:NE2	2.60	0.63
9:S:132:LEU:HD22	9:S:136:LYS:HD3	1.80	0.63
9:S:180:TYR:HD2	9:S:187:GLU:CG	1.97	0.63
9:T:128:SER:HB3	9:T:145:VAL:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:243:PRO:CG	9:U:274:ARG:HD3	2.25	0.63
10:Y:179:ILE:CD1	10:Y:189:THR:O	2.46	0.63
3:A:274:ARG:O	3:A:278:ASN:OD1	2.16	0.63
3:A:724:ILE:HG13	3:A:725:GLU:N	2.11	0.63
3:A:759:ILE:HG22	3:A:760:GLY:N	2.13	0.63
3:A:807:PRO:O	3:A:810:GLU:CG	2.46	0.63
3:A:823:GLU:C	3:A:825:GLY:N	2.56	0.63
3:A:866:LEU:HG	3:A:867:PRO:HG2	1.81	0.63
4:B:308:MET:HE3	4:B:309:VAL:N	2.13	0.63
4:B:636:THR:OG1	4:B:784:SER:N	2.31	0.63
4:B:876:ILE:C	4:B:877:LEU:HG	2.15	0.63
5:C:161:LEU:C	5:C:162:ASP:OD1	2.41	0.63
5:C:219:ASP:CG	5:C:220:LEU:N	2.55	0.63
6:E:151:GLY:H	6:E:182:GLN:CG	2.10	0.63
6:E:438:ARG:NH2	6:E:500:PRO:CB	2.62	0.63
8:G:298:LEU:HD12	8:G:299:GLY:H	1.62	0.63
9:S:188:LEU:HB3	9:S:193:GLN:CG	2.28	0.63
9:T:221:LEU:HD23	9:V:122:ARG:HA	1.81	0.63
9:U:116:TYR:HB3	9:U:117:PRO:HD2	1.79	0.63
9:V:6:LEU:HD11	9:V:67:ALA:C	2.24	0.63
9:V:167:ILE:C	9:V:262:ALA:H	2.07	0.63
9:V:169:LEU:CD2	9:V:261:LEU:HD22	2.28	0.63
10:Y:111:ALA:CB	10:Y:118:LEU:HB2	2.29	0.63
1:1:94:DT:OP1	8:G:232:PRO:HB2	1.97	0.63
3:A:64:GLU:O	3:A:65:LEU:HG	1.97	0.63
3:A:147:VAL:HA	3:A:165:LEU:HA	1.81	0.63
3:A:295:GLY:O	3:A:296:ASP:C	2.40	0.63
3:A:599:VAL:CG2	3:A:613:GLN:HB3	2.29	0.63
3:A:697:ASN:CA	3:A:701:ALA:HB3	2.28	0.63
3:A:741:PRO:HG2	3:A:742:ASN:OD1	1.99	0.63
3:A:932:VAL:CG2	3:A:933:HIS:N	2.62	0.63
3:A:1036:GLU:O	3:A:1038:LEU:N	2.32	0.63
3:A:1076:GLU:O	3:A:1080:LEU:HG	1.98	0.63
4:B:99:ASN:O	4:B:102:SER:HB2	1.98	0.63
4:B:443:LYS:CB	4:B:997:LEU:HB3	2.29	0.63
4:B:596:TYR:HD1	4:B:629:LEU:CD2	2.11	0.63
4:B:603:PHE:H	4:B:632:ILE:H	1.46	0.63
4:B:1226:GLU:N	4:B:1226:GLU:CD	2.55	0.63
5:C:98:ARG:H	5:C:113:ASP:CB	2.11	0.63
5:C:176:VAL:HG23	5:C:198:VAL:HG12	1.80	0.63
5:D:178:TYR:HA	5:D:196:LEU:CB	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:28:ARG:NE	6:E:102:ARG:HG2	2.13	0.63
6:E:44:THR:OG1	6:E:45:ILE:HG23	1.99	0.63
8:G:331:PRO:HA	8:G:334:ARG:HB3	1.81	0.63
9:S:172:ALA:H	9:S:178:ALA:HB2	1.62	0.63
9:T:226:LEU:HD23	9:T:230:ARG:HH22	1.61	0.63
9:T:250:ALA:HA	9:T:253:ASP:OD2	1.98	0.63
9:T:275:ARG:NH2	9:T:276:VAL:O	2.31	0.63
9:U:151:LEU:HD13	9:U:277:VAL:HG22	1.79	0.63
10:X:44:VAL:HB	10:X:46:PHE:HB2	1.80	0.63
10:X:111:ALA:CB	10:X:118:LEU:HB2	2.29	0.63
10:X:187:ARG:HH12	10:X:190:VAL:HG11	1.63	0.63
10:X:214:LYS:HB2	10:X:217:THR:OG1	1.98	0.63
3:A:745:GLU:O	3:A:749:ARG:N	2.31	0.63
4:B:265:SER:HB2	4:B:301:TRP:CH2	2.33	0.63
4:B:452:GLU:OE1	4:B:985:GLY:HA2	1.99	0.63
4:B:594:ASP:O	4:B:597:ARG:HB2	1.98	0.63
5:C:52:ALA:HB3	5:C:168:SER:OG	1.99	0.63
6:E:28:ARG:H	6:E:36:VAL:HG12	1.63	0.63
9:S:251:ARG:HD3	9:S:258:VAL:O	1.98	0.63
9:V:15:THR:OG1	9:V:16:GLY:N	2.31	0.63
9:V:170:LEU:HG	9:V:256:LEU:HD12	1.80	0.63
10:X:83:GLY:N	10:X:86:SER:HG	1.95	0.63
3:A:29:ASP:OD1	3:A:29:ASP:C	2.39	0.63
3:A:146:GLY:HA3	3:A:148:TYR:OH	1.99	0.63
3:A:400:ARG:O	3:A:447:LEU:HD22	1.98	0.63
3:A:543:PRO:O	3:A:544:PHE:HD1	1.78	0.63
3:A:746:ASP:C	3:A:749:ARG:HH12	2.06	0.63
3:A:899:PHE:O	3:A:902:LEU:HB2	1.98	0.63
3:A:998:TYR:CD1	3:A:1005:PRO:HG3	2.34	0.63
4:B:54:ASP:C	4:B:56:LEU:N	2.55	0.63
4:B:295:CYS:O	4:B:296:GLN:C	2.40	0.63
4:B:695:ASP:CG	4:B:734:PRO:HB3	2.23	0.63
4:B:765:SER:HB2	4:B:801:GLN:CG	2.29	0.63
4:B:1080:GLY:O	4:B:1081:GLN:C	2.41	0.63
4:B:1097:PHE:O	4:B:1101:GLY:N	2.28	0.63
5:C:13:THR:C	5:C:14:GLU:HG3	2.23	0.63
5:C:203:SER:C	5:C:204:ILE:HD13	2.23	0.63
5:C:219:ASP:CG	5:C:220:LEU:H	2.07	0.63
5:D:98:ARG:H	5:D:113:ASP:CB	2.11	0.63
6:E:53:GLU:OE1	6:E:53:GLU:N	2.32	0.63
6:E:416:TRP:N	6:E:416:TRP:CD1	2.59	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:499:SER:C	6:E:501:ALA:N	2.52	0.63
7:F:59:LEU:O	7:F:63:ILE:HG23	1.98	0.63
8:G:219:THR:O	8:G:222:ILE:HG23	1.99	0.63
8:G:329:LEU:CD1	8:G:334:ARG:CB	2.16	0.63
9:T:122:ARG:NE	9:T:124:THR:HG21	2.11	0.63
9:U:45:LEU:HD23	9:U:62:ARG:NH2	2.14	0.63
9:U:291:LYS:O	9:U:295:GLN:HG2	1.98	0.63
9:V:168:GLU:HA	9:V:261:LEU:N	2.12	0.63
9:V:209:LYS:HZ1	9:V:241:LEU:HD21	1.56	0.63
3:A:199:LEU:HD22	3:A:227:GLY:O	1.96	0.63
3:A:204:LEU:HB2	3:A:207:ASN:HB3	1.79	0.63
3:A:274:ARG:CZ	3:A:289:VAL:H	2.11	0.63
3:A:596:GLY:CA	3:A:615:PRO:HA	2.28	0.63
3:A:698:TYR:C	3:A:699:GLU:CD	2.67	0.63
3:A:703:LEU:HD23	3:A:703:LEU:O	1.99	0.63
3:A:705:SER:O	3:A:707:ARG:N	2.31	0.63
3:A:901:CYS:HB3	3:A:902:LEU:HG	1.80	0.63
3:A:940:ARG:HD3	3:A:949:TYR:CD2	2.33	0.63
3:A:993:ARG:CD	3:A:1012:GLN:CG	2.76	0.63
4:B:32:MET:HB2	6:E:623:LEU:HA	1.81	0.63
4:B:45:THR:O	4:B:48:GLY:N	2.32	0.63
4:B:93:LYS:O	4:B:94:VAL:C	2.42	0.63
4:B:296:GLN:O	4:B:299:TYR:N	2.26	0.63
4:B:357:ILE:H	4:B:357:ILE:HD12	1.64	0.63
4:B:370:THR:HG21	4:B:376:ALA:HA	1.80	0.63
4:B:1051:VAL:HG12	4:B:1052:ILE:H	1.64	0.63
6:E:287:ALA:O	6:E:289:LEU:N	2.32	0.63
6:E:548:GLU:C	6:E:550:ILE:N	2.52	0.63
9:S:169:LEU:CD1	9:S:188:LEU:CD2	2.67	0.63
9:S:175:HIS:ND1	9:S:237:GLU:OE2	2.24	0.63
9:V:5:GLN:HB2	9:V:39:LEU:CD1	2.26	0.63
10:X:95:PHE:CE2	10:X:172:LEU:HD13	2.34	0.63
3:A:151:SER:H	3:A:314:ILE:HD11	1.63	0.63
3:A:328:VAL:O	3:A:329:GLY:C	2.42	0.63
3:A:449:THR:HG23	3:A:535:VAL:N	2.13	0.63
3:A:564:VAL:HG13	3:A:982:LEU:HD23	1.81	0.63
3:A:581:GLN:NE2	3:A:582:GLY:H	1.97	0.63
3:A:727:ARG:NH2	8:G:278:LYS:NZ	2.47	0.63
3:A:748:LEU:O	3:A:751:LEU:HB2	1.99	0.63
3:A:1066:THR:HB	3:A:1067:PRO:HD2	1.80	0.63
4:B:12:GLN:O	4:B:15:ASN:OD1	2.17	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:596:TYR:CD2	4:B:791:LEU:HD22	2.33	0.63
4:B:697:PRO:C	4:B:699:ALA:H	2.06	0.63
4:B:852:SER:N	4:B:877:LEU:HG	2.13	0.63
5:C:41:ARG:CZ	5:C:176:VAL:HG22	2.28	0.63
5:D:139:GLU:N	5:D:139:GLU:OE1	2.32	0.63
5:D:219:ASP:CG	5:D:220:LEU:N	2.55	0.63
6:E:174:ILE:HA	6:E:180:GLN:HE22	1.62	0.63
6:E:240:LYS:HB2	6:E:243:TRP:CE2	2.33	0.63
6:E:593:VAL:HA	6:E:603:SER:HB2	1.81	0.63
6:E:623:LEU:HD12	6:E:624:ALA:CA	2.29	0.63
7:F:65:MET:O	7:F:66:SER:C	2.41	0.63
8:G:374:ARG:CG	8:G:377:ARG:HH21	2.02	0.63
9:S:70:ILE:O	9:S:73:GLU:HB2	1.98	0.63
9:T:157:MET:HB2	9:T:294:TRP:CZ2	2.23	0.63
9:T:175:HIS:CD2	9:T:177:LEU:HB2	2.29	0.63
9:U:131:ALA:HB1	9:U:135:LEU:HB3	1.81	0.63
9:U:244:SER:HA	9:U:247:LEU:CD2	2.28	0.63
9:V:206:VAL:HG22	9:V:209:LYS:CE	2.29	0.63
9:V:287:ILE:H	9:V:290:ILE:HG23	1.64	0.63
1:1:13:DG:H8	1:1:13:DG:O5'	1.81	0.62
3:A:45:GLY:O	3:A:48:GLU:HB2	1.99	0.62
3:A:211:ASP:OD2	3:A:298:LEU:HD13	1.99	0.62
3:A:470:ARG:NH2	3:A:501:GLY:HA3	2.14	0.62
3:A:542:ILE:HD13	3:A:545:LEU:HD22	1.79	0.62
3:A:572:PRO:HA	3:A:978:TYR:CZ	2.34	0.62
3:A:580:ALA:O	3:A:581:GLN:C	2.42	0.62
3:A:1069:SER:O	3:A:1070:PHE:C	2.40	0.62
3:A:1085:ALA:C	3:A:1087:HIS:ND1	2.57	0.62
4:B:33:ALA:CB	4:B:37:LYS:HE2	2.14	0.62
4:B:71:GLU:O	4:B:72:GLU:C	2.41	0.62
4:B:88:VAL:C	4:B:91:PHE:HB3	2.24	0.62
4:B:98:TRP:HZ3	4:B:143:MET:CE	2.08	0.62
4:B:113:PHE:O	4:B:115:GLN:N	2.32	0.62
4:B:285:PRO:O	4:B:287:THR:N	2.32	0.62
4:B:299:TYR:CD2	4:B:1139:LYS:CE	2.49	0.62
4:B:604:LEU:HD21	4:B:776:TYR:O	1.98	0.62
4:B:606:PHE:C	4:B:606:PHE:CD2	2.75	0.62
4:B:659:GLU:CD	4:B:666:CYS:CB	2.55	0.62
4:B:1153:ARG:CB	4:B:1167:LEU:HD23	2.29	0.62
4:B:1232:LEU:HD13	4:B:1238:ASN:HA	1.81	0.62
5:C:5:GLN:NE2	5:C:7:GLU:OE1	2.19	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:51:THR:HA	5:C:144:ARG:HA	1.80	0.62
5:D:141:ARG:HB3	5:D:143:GLU:OE2	1.98	0.62
6:E:555:TYR:HD1	6:E:609:THR:H	1.45	0.62
8:G:290:ILE:N	8:G:296:SER:O	2.32	0.62
9:S:155:ARG:HG2	9:S:155:ARG:O	1.99	0.62
9:S:226:LEU:CD2	9:U:227:ASP:OD1	2.47	0.62
9:T:209:LYS:HA	9:T:212:ARG:HB3	1.81	0.62
9:U:159:VAL:O	9:U:160:GLU:HB2	1.98	0.62
9:U:296:LEU:HG	9:U:301:ILE:N	2.13	0.62
9:V:6:LEU:HD22	9:V:7:GLN:HG3	1.81	0.62
10:X:77:VAL:HG13	10:X:78:LEU:N	2.13	0.62
3:A:141:ILE:HG22	3:A:142:VAL:N	2.13	0.62
3:A:235:LEU:HD22	3:A:250:VAL:CA	2.29	0.62
3:A:516:PHE:CD1	3:A:516:PHE:O	2.52	0.62
3:A:571:ARG:HB3	3:A:676:GLU:OE1	1.98	0.62
3:A:662:ARG:CZ	3:A:663:VAL:H	2.12	0.62
3:A:729:THR:OG1	3:A:732:GLY:N	2.32	0.62
4:B:24:TYR:HB3	4:B:29:THR:HG23	1.78	0.62
4:B:359:LEU:HB3	4:B:386:ILE:CD1	2.29	0.62
4:B:372:HIS:HD1	4:B:374:GLU:CD	2.04	0.62
4:B:479:LEU:HD13	4:B:481:TRP:CH2	2.33	0.62
4:B:489:ASN:O	4:B:850:GLN:HA	1.98	0.62
4:B:531:GLY:HA2	4:B:842:ARG:HD3	1.81	0.62
4:B:969:GLY:C	4:B:970:ARG:HD2	2.23	0.62
4:B:1049:ILE:HG21	4:B:1063:LEU:HA	1.76	0.62
4:B:1225:ILE:HG22	6:E:234:PHE:CE1	2.33	0.62
5:C:57:ARG:O	5:C:58:ILE:HD13	1.99	0.62
5:C:217:LEU:HD11	5:D:221:PHE:CE1	2.34	0.62
6:E:86:CYS:HB3	6:E:89:CYS:C	2.24	0.62
6:E:161:LEU:C	6:E:162:LEU:HG	2.24	0.62
8:G:192:ILE:C	8:G:194:ALA:H	2.07	0.62
8:G:288:THR:O	8:G:298:LEU:N	2.29	0.62
9:S:159:VAL:HG13	9:U:20:LYS:NZ	2.14	0.62
9:S:167:ILE:HD11	9:S:241:LEU:HD23	1.80	0.62
9:S:193:GLN:HA	9:S:239:ILE:O	1.98	0.62
9:T:235:GLN:NE2	9:T:238:LEU:HB2	2.14	0.62
9:V:229:PHE:HA	9:V:233:VAL:HB	1.81	0.62
9:V:285:LEU:HA	9:V:290:ILE:HG13	1.80	0.62
10:X:25:VAL:HA	10:X:101:LEU:O	1.99	0.62
3:A:153:ILE:HG13	3:A:159:ARG:CG	2.27	0.62
3:A:162:SER:HA	3:A:176:GLU:HA	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:389:GLN:HG3	3:A:645:SER:HB2	1.81	0.62
3:A:618:SER:C	3:A:620:LYS:N	2.55	0.62
3:A:949:TYR:CE1	3:A:954:PRO:HA	2.33	0.62
3:A:1045:MET:HA	3:A:1048:ARG:CZ	2.29	0.62
4:B:10:LYS:O	4:B:13:LEU:N	2.31	0.62
4:B:151:GLN:HA	4:B:151:GLN:OE1	1.98	0.62
4:B:451:GLY:HA3	4:B:484:SER:CA	2.25	0.62
4:B:852:SER:OG	4:B:852:SER:O	2.17	0.62
4:B:1159:ASP:OD2	4:B:1188:ALA:HA	1.99	0.62
4:B:1216:THR:H	4:B:1219:VAL:HG12	1.64	0.62
5:C:226:ASP:CG	5:D:214:ALA:CB	2.73	0.62
6:E:444:PHE:HD1	6:E:493:ALA:H	1.47	0.62
8:G:103:LEU:C	8:G:107:ILE:HG12	2.24	0.62
9:T:123:VAL:CB	9:V:223:VAL:HA	2.28	0.62
9:T:157:MET:CB	9:T:294:TRP:CE3	2.75	0.62
9:T:206:VAL:CB	9:T:241:LEU:HD12	2.29	0.62
9:T:289:PRO:HA	9:T:292:HIS:ND1	2.13	0.62
9:U:145:VAL:O	9:U:146:MET:C	2.42	0.62
9:V:261:LEU:CA	9:V:264:SER:HB2	2.28	0.62
10:X:46:PHE:CB	10:X:101:LEU:HD12	2.28	0.62
10:Y:57:VAL:HG12	10:Y:90:TYR:C	2.25	0.62
10:Y:77:VAL:HG13	10:Y:78:LEU:N	2.13	0.62
3:A:178:ASP:O	3:A:180:ASN:ND2	2.32	0.62
3:A:196:GLN:HG2	3:A:237:GLU:HG3	1.80	0.62
3:A:279:LYS:O	3:A:282:ARG:CG	2.47	0.62
3:A:775:PRO:C	3:A:776:LYS:HG2	2.25	0.62
4:B:40:GLY:O	4:B:41:PHE:C	2.39	0.62
4:B:86:THR:OG1	4:B:87:GLU:N	2.26	0.62
4:B:127:PHE:HE2	4:B:350:ARG:H	1.47	0.62
4:B:487:VAL:HA	4:B:987:LEU:CD2	2.29	0.62
4:B:602:GLY:HA3	4:B:782:VAL:HG21	1.80	0.62
4:B:794:GLN:NE2	4:B:795:LEU:O	2.32	0.62
5:C:70:GLY:O	5:C:130:ILE:HA	1.98	0.62
5:C:76:LEU:O	5:C:80:MET:HG3	1.99	0.62
5:D:63:HIS:CD2	5:D:66:ALA:H	2.16	0.62
6:E:45:ILE:HB	6:E:51:LYS:N	2.15	0.62
6:E:444:PHE:CA	6:E:492:LEU:HD12	2.30	0.62
6:E:556:VAL:HG13	6:E:558:VAL:HG23	1.81	0.62
9:S:81:LEU:HD23	9:S:86:ALA:CA	2.29	0.62
9:T:18:PHE:CE1	9:T:50:ARG:HA	2.28	0.62
9:T:100:LEU:HD11	9:T:301:ILE:CD1	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:135:LEU:CD1	9:T:278:MET:HE2	2.28	0.62
9:T:150:PHE:CB	9:T:279:VAL:HB	2.30	0.62
9:T:189:VAL:HG21	9:T:210:PHE:CE1	2.35	0.62
9:U:284:ARG:CD	9:U:290:ILE:HB	2.30	0.62
9:U:296:LEU:HD11	9:U:301:ILE:N	2.14	0.62
9:V:158:VAL:O	9:V:280:THR:N	2.31	0.62
9:V:213:LEU:HD11	9:V:261:LEU:CD1	2.26	0.62
10:X:46:PHE:HD2	10:X:101:LEU:CB	2.09	0.62
10:Y:148:ARG:NH2	10:Y:183:ILE:CG1	2.61	0.62
3:A:263:ASP:O	3:A:264:PRO:C	2.43	0.62
3:A:374:ILE:C	3:A:376:GLU:N	2.55	0.62
3:A:427:TYR:CB	3:A:511:ARG:NH1	2.61	0.62
3:A:674:SER:CB	3:A:681:ALA:HB3	2.29	0.62
3:A:861:ILE:HB	6:E:363:VAL:HG23	1.82	0.62
3:A:928:SER:O	3:A:929:ARG:C	2.39	0.62
4:B:107:ASP:HB2	4:B:354:ASP:OD1	2.00	0.62
4:B:111:THR:HA	4:B:114:LYS:CG	2.30	0.62
4:B:271:GLU:O	4:B:273:GLU:N	2.32	0.62
4:B:491:PRO:CD	4:B:876:ILE:HD12	2.28	0.62
4:B:673:GLU:OE2	4:B:726:GLN:NE2	2.32	0.62
4:B:678:ASN:HD21	4:B:682:ARG:HH21	1.45	0.62
4:B:775:PRO:HD3	4:B:790:LEU:O	2.00	0.62
6:E:19:PRO:O	6:E:23:ARG:N	2.32	0.62
6:E:69:TRP:CD1	6:E:79:VAL:HG12	2.35	0.62
6:E:75:LYS:HG2	6:E:75:LYS:O	1.99	0.62
8:G:221:ALA:O	8:G:222:ILE:C	2.39	0.62
8:G:242:ILE:O	8:G:246:THR:HG23	2.00	0.62
9:S:232:VAL:CB	9:S:238:LEU:HD22	2.30	0.62
9:T:196:PHE:HD2	9:T:197:LYS:H	1.44	0.62
9:T:251:ARG:HG3	9:T:258:VAL:HG23	1.80	0.62
9:U:157:MET:CE	9:U:159:VAL:H	2.07	0.62
9:U:171:THR:CG2	9:U:177:LEU:HB3	2.28	0.62
9:U:237:GLU:O	9:U:238:LEU:HD23	1.99	0.62
9:V:97:ILE:CG2	9:V:202:MET:CG	2.77	0.62
9:V:126:LEU:HD22	9:V:139:LEU:CD2	2.28	0.62
3:A:53:PHE:HE1	3:A:265:LYS:HG2	0.91	0.62
3:A:707:ARG:NH2	3:A:881:ASP:OD2	2.33	0.62
3:A:738:ARG:HD3	3:A:755:GLY:N	2.14	0.62
3:A:762:TRP:CZ2	3:A:811:LYS:HE3	2.34	0.62
3:A:866:LEU:CD1	3:A:867:PRO:HD2	2.29	0.62
3:A:885:ASN:HB2	3:A:886:PRO:HD2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:964:THR:HG22	3:A:964:THR:O	1.99	0.62
3:A:1049:ASN:O	3:A:1050:GLU:C	2.41	0.62
4:B:107:ASP:O	4:B:110:VAL:HB	1.99	0.62
4:B:541:THR:O	4:B:764:ARG:NE	2.32	0.62
4:B:609:VAL:HA	4:B:626:GLY:HA3	1.80	0.62
4:B:631:TRP:HD1	4:B:742:VAL:CG1	2.11	0.62
4:B:921:LEU:HD23	4:B:939:GLN:HG2	1.82	0.62
4:B:1154:ILE:HG12	4:B:1166:GLU:O	1.98	0.62
4:B:1226:GLU:O	4:B:1227:GLY:C	2.40	0.62
4:B:1241:ILE:HD12	4:B:1241:ILE:N	2.14	0.62
5:D:63:HIS:NE2	5:D:65:PHE:HB2	2.14	0.62
5:D:68:VAL:O	5:D:71:VAL:HG13	2.00	0.62
6:E:151:GLY:H	6:E:182:GLN:HG2	1.63	0.62
6:E:290:GLN:N	6:E:291:GLU:OE1	2.33	0.62
6:E:329:ARG:HG2	6:E:330:PRO:HD2	1.80	0.62
6:E:481:LEU:O	6:E:483:SER:N	2.33	0.62
6:E:541:VAL:O	6:E:544:ALA:N	2.33	0.62
7:F:42:ARG:HA	7:F:45:GLU:OE1	2.00	0.62
8:G:195:ALA:O	8:G:196:GLU:C	2.43	0.62
9:S:81:LEU:H	9:S:81:LEU:HD13	1.65	0.62
9:S:128:SER:HB2	9:S:201:GLY:HA3	1.80	0.62
9:T:180:TYR:CB	9:T:188:LEU:HD23	2.20	0.62
9:T:186:SER:HB3	9:T:213:LEU:O	1.99	0.62
9:V:89:GLN:C	9:V:287:ILE:HG21	2.24	0.62
9:V:143:ALA:O	9:V:278:MET:HE1	1.97	0.62
9:V:145:VAL:O	9:V:277:VAL:HG23	1.99	0.62
10:Y:45:TYR:CD2	10:Y:75:PHE:HB2	2.32	0.62
10:Y:77:VAL:CG2	10:Y:129:ARG:CZ	2.69	0.62
1:1:105:DG:N1	3:A:246:GLU:HB3	2.14	0.62
2:2:83:DG:H2"	2:2:84:DT:OP2	1.98	0.62
2:2:100:DT:H72	9:U:19:GLN:HG2	1.82	0.62
3:A:729:THR:HB	3:A:731:LEU:HB2	1.81	0.62
3:A:811:LYS:HE2	5:C:152:GLU:CB	2.30	0.62
4:B:357:ILE:CB	4:B:410:ILE:CG2	2.76	0.62
4:B:388:GLU:HB2	4:B:399:PRO:HG2	1.82	0.62
4:B:497:VAL:HG21	4:B:875:GLN:NE2	2.14	0.62
4:B:564:ILE:HG21	4:B:570:GLN:CD	2.25	0.62
4:B:604:LEU:HD21	4:B:776:TYR:C	2.25	0.62
4:B:885:ARG:O	4:B:887:VAL:HG23	2.00	0.62
5:C:62:SER:OG	5:C:63:HIS:N	2.26	0.62
5:C:175:LYS:HD3	5:C:199:TRP:CH2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:145:TYR:OH	6:E:167:TRP:CE3	2.52	0.62
6:E:226:LYS:O	6:E:229:ARG:N	2.33	0.62
6:E:382:GLU:HB2	6:E:383:LEU:CD2	2.29	0.62
7:F:37:ASN:O	7:F:38:ARG:C	2.42	0.62
8:G:108:ALA:O	8:G:109:ASP:C	2.42	0.62
9:S:176:PRO:HB2	9:S:191:TYR:OH	1.99	0.62
9:S:243:PRO:CG	9:S:274:ARG:HH22	2.03	0.62
9:T:146:MET:HE2	9:T:201:GLY:O	1.99	0.62
9:U:24:LYS:O	9:U:25:CYS:SG	2.55	0.62
9:U:199:GLY:H	9:U:207:GLN:HE22	1.47	0.62
9:V:58:LEU:CD2	9:V:61:GLU:HB2	2.29	0.62
9:V:285:LEU:HD11	9:V:290:ILE:O	1.99	0.62
10:Y:49:LYS:HG2	10:Y:71:GLU:HB2	1.80	0.62
10:Y:157:CYS:HA	10:Y:171:ASP:HB2	1.81	0.62
2:2:87:DT:H2"	2:2:88:DT:H71	1.82	0.62
2:2:102:DT:H1'	2:2:103:DG:H5'	1.82	0.62
3:A:241:LYS:O	3:A:244:PRO:HG3	2.00	0.62
3:A:498:ASP:OD1	3:A:501:GLY:C	2.42	0.62
3:A:559:MET:HE3	3:A:982:LEU:CD1	2.30	0.62
3:A:628:THR:O	3:A:628:THR:OG1	2.15	0.62
3:A:689:ALA:HB1	3:A:974:ILE:HG22	1.81	0.62
3:A:729:THR:C	3:A:731:LEU:N	2.57	0.62
3:A:792:PHE:HB3	8:G:390:ARG:OXT	1.98	0.62
3:A:862:ILE:HG22	3:A:863:SER:C	2.25	0.62
4:B:72:GLU:C	4:B:72:GLU:CD	2.67	0.62
4:B:266:ASP:O	4:B:267:ASP:C	2.43	0.62
4:B:504:VAL:HG21	4:B:510:LEU:HG	1.80	0.62
4:B:520:GLY:HA3	4:B:539:ILE:HG21	1.82	0.62
4:B:1017:LEU:HD12	4:B:1018:LEU:HG	1.82	0.62
4:B:1065:PRO:CG	4:B:1068:ASN:HB2	2.29	0.62
5:C:68:VAL:O	5:C:71:VAL:HG13	2.00	0.62
6:E:253:PRO:HD2	6:E:256:LEU:HD21	1.81	0.62
6:E:274:ASP:OD1	6:E:275:LEU:HD23	1.98	0.62
6:E:399:ASN:C	6:E:404:ALA:HB2	2.24	0.62
8:G:110:LEU:O	8:G:111:LEU:C	2.42	0.62
8:G:299:GLY:N	8:G:301:PHE:HB2	2.14	0.62
9:S:4:GLU:C	9:S:27:VAL:HG21	2.24	0.62
9:S:172:ALA:HA	9:S:258:VAL:HG22	1.82	0.62
9:S:302:PRO:HG2	9:S:304:ILE:CG1	2.30	0.62
9:T:162:LEU:CA	9:T:301:ILE:HG21	2.29	0.62
9:T:170:LEU:HG	9:T:233:VAL:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:195:VAL:HG12	9:T:196:PHE:N	2.15	0.62
9:T:293:PHE:CG	9:T:297:VAL:CG2	2.82	0.62
3:A:57:THR:CA	3:A:64:GLU:HA	2.26	0.62
3:A:296:ASP:O	3:A:297:ILE:C	2.43	0.62
3:A:852:MET:HA	3:A:981:LYS:HA	1.82	0.62
3:A:855:ARG:NH2	3:A:978:TYR:HD2	1.96	0.62
4:B:57:MET:CG	4:B:58:VAL:N	2.62	0.62
4:B:59:PRO:HG3	4:B:109:VAL:HB	1.82	0.62
4:B:82:ARG:C	4:B:84:GLU:N	2.56	0.62
4:B:265:SER:H	4:B:268:LEU:HD12	1.64	0.62
4:B:443:LYS:NZ	4:B:997:LEU:HD22	2.08	0.62
4:B:541:THR:CB	4:B:764:ARG:HH21	2.13	0.62
4:B:672:VAL:HG22	4:B:686:VAL:HG11	1.78	0.62
4:B:1174:GLU:CD	4:B:1175:GLN:N	2.58	0.62
5:C:65:PHE:CD2	5:C:76:LEU:HD11	2.35	0.62
5:C:141:ARG:HB3	5:C:143:GLU:OE2	1.99	0.62
5:D:5:GLN:NE2	5:D:7:GLU:OE1	2.19	0.62
5:D:48:LEU:CD2	5:D:171:MET:SD	2.88	0.62
6:E:252:ILE:CG2	6:E:256:LEU:HD21	2.30	0.62
6:E:592:ARG:N	6:E:604:GLN:O	2.32	0.62
7:F:35:VAL:O	7:F:36:ALA:C	2.41	0.62
9:S:47:LEU:O	9:S:57:THR:HG22	2.00	0.62
9:S:208:GLU:HG2	9:S:272:LEU:CD2	2.26	0.62
9:S:278:MET:CB	9:S:294:TRP:HZ2	2.05	0.62
9:T:144:ILE:CB	9:T:162:LEU:HD12	2.29	0.62
9:T:197:LYS:HB2	9:T:200:TYR:HD2	1.61	0.62
9:U:94:ILE:HG21	9:U:293:PHE:CD2	2.34	0.62
9:U:175:HIS:HE1	9:U:233:VAL:CG1	2.12	0.62
9:U:182:ARG:HB2	9:U:187:GLU:CD	2.24	0.62
9:U:210:PHE:HZ	9:U:243:PRO:CG	2.08	0.62
9:U:243:PRO:HG2	9:U:274:ARG:HD2	1.71	0.62
9:U:296:LEU:HD13	9:U:300:ASN:HB3	1.69	0.62
9:V:32:ILE:HD12	9:V:35:GLN:HB2	1.81	0.62
9:V:66:ARG:O	9:V:67:ALA:C	2.43	0.62
1:1:12:DT:H2'	9:V:18:PHE:HE2	1.65	0.62
3:A:68:LEU:HD22	3:A:98:PRO:HD2	1.81	0.62
3:A:598:VAL:HG13	3:A:659:ILE:C	2.25	0.62
3:A:748:LEU:C	3:A:751:LEU:HD23	2.24	0.62
3:A:756:ILE:HA	3:A:770:VAL:CG2	2.30	0.62
4:B:28:ARG:NH1	7:F:20:ASP:OD2	2.32	0.62
4:B:68:ALA:O	4:B:419:LYS:HG3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:77:GLU:HG2	4:B:90:ARG:HH11	1.51	0.62
4:B:356:THR:OG1	4:B:410:ILE:HA	1.99	0.62
4:B:369:ARG:NH1	4:B:999:PHE:HB2	2.14	0.62
4:B:1112:HIS:HA	4:B:1115:GLN:HE21	1.63	0.62
4:B:1215:GLU:CB	4:B:1219:VAL:HG11	2.24	0.62
5:D:56:VAL:O	5:D:56:VAL:HG13	2.00	0.62
6:E:61:ARG:HE	6:E:72:HIS:HB3	1.65	0.62
6:E:457:HIS:HD1	6:E:459:LEU:N	1.94	0.62
9:S:84:LEU:HB2	9:S:89:GLN:HG2	1.82	0.62
9:S:136:LYS:HG2	9:S:151:LEU:C	2.25	0.62
9:S:157:MET:CB	9:U:20:LYS:CE	2.75	0.62
9:T:122:ARG:HE	9:T:124:THR:HG22	1.63	0.62
9:T:133:LYS:O	9:T:137:ASP:N	2.32	0.62
9:T:151:LEU:HB2	9:T:159:VAL:N	2.15	0.62
9:T:209:LYS:NZ	9:T:273:THR:O	2.32	0.62
9:T:278:MET:SD	9:T:280:THR:OG1	2.57	0.62
9:T:287:ILE:O	9:T:291:LYS:N	2.30	0.62
9:U:10:LEU:C	9:U:10:LEU:CD1	2.73	0.62
9:U:24:LYS:O	9:U:24:LYS:HG2	1.99	0.62
9:U:64:LEU:HD12	9:U:67:ALA:HB3	1.81	0.62
9:U:111:LYS:HZ3	9:U:292:HIS:CD2	2.11	0.62
9:U:278:MET:CE	9:U:294:TRP:C	2.71	0.62
9:V:49:HIS:CE1	9:V:57:THR:N	2.65	0.62
9:V:89:GLN:CA	9:V:287:ILE:HG21	2.28	0.62
9:V:196:PHE:HD2	9:V:206:VAL:CG2	2.13	0.62
9:V:265:ALA:O	9:V:269:ASN:O	2.18	0.62
10:X:57:VAL:HG12	10:X:90:TYR:C	2.25	0.62
10:Y:188:VAL:O	10:Y:189:THR:OG1	2.15	0.62
3:A:251:LEU:O	3:A:255:GLN:HG3	1.98	0.61
3:A:581:GLN:CG	3:A:582:GLY:N	2.62	0.61
3:A:699:GLU:C	3:A:700:ASP:OD1	2.43	0.61
3:A:1048:ARG:O	3:A:1051:ALA:HB3	2.00	0.61
3:A:1078:GLN:HA	3:A:1082:LEU:HB3	1.81	0.61
3:A:1084:ILE:HD11	6:E:12:VAL:HA	1.80	0.61
4:B:9:ASP:CG	4:B:11:GLY:N	2.57	0.61
4:B:141:VAL:HG23	4:B:142:GLY:N	2.15	0.61
4:B:185:ASP:OD1	4:B:189:ARG:N	2.33	0.61
4:B:358:LYS:HG3	4:B:390:ARG:N	2.15	0.61
4:B:460:PRO:HB3	4:B:980:LEU:HD13	1.81	0.61
4:B:491:PRO:HD3	4:B:876:ILE:HD12	1.81	0.61
4:B:495:GLU:HA	4:B:890:GLY:CA	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:496:LEU:H	4:B:890:GLY:HA2	1.66	0.61
4:B:795:LEU:HB3	4:B:797:LEU:HD23	1.82	0.61
4:B:896:ARG:HB3	4:B:987:LEU:H	1.64	0.61
4:B:1190:TYR:CD2	4:B:1190:TYR:C	2.76	0.61
4:B:1198:THR:HA	4:B:1202:LEU:HD13	1.80	0.61
6:E:119:LYS:CB	6:E:319:ARG:HD3	2.28	0.61
6:E:240:LYS:HD3	6:E:242:GLU:CD	2.19	0.61
8:G:146:TYR:O	8:G:150:ILE:HB	2.00	0.61
9:S:157:MET:SD	9:S:279:VAL:HG12	2.40	0.61
9:T:163:TYR:N	9:T:301:ILE:HG23	2.09	0.61
9:T:171:THR:HG21	9:T:175:HIS:HD1	1.54	0.61
9:U:128:SER:HA	9:U:131:ALA:HB3	1.80	0.61
9:U:128:SER:O	9:U:148:ASN:ND2	2.32	0.61
9:U:204:ARG:HA	9:U:207:GLN:NE2	2.14	0.61
9:V:146:MET:SD	9:V:274:ARG:HB2	2.40	0.61
9:V:165:GLU:HG3	9:V:245:SER:HG	1.65	0.61
9:V:167:ILE:HB	9:V:209:LYS:HZ3	1.65	0.61
9:V:242:LEU:HD23	9:V:243:PRO:HD2	1.82	0.61
3:A:86:ARG:HA	3:A:818:ARG:HH22	1.65	0.61
3:A:199:LEU:C	3:A:233:GLU:HG2	2.26	0.61
3:A:280:LYS:O	3:A:282:ARG:HG3	2.00	0.61
3:A:662:ARG:HE	3:A:663:VAL:N	1.98	0.61
3:A:998:TYR:HA	3:A:1005:PRO:HA	1.82	0.61
4:B:459:VAL:N	4:B:475:ALA:HB2	2.16	0.61
4:B:852:SER:HB3	4:B:877:LEU:HD23	1.75	0.61
5:C:43:VAL:HA	5:C:46:SER:HB3	1.82	0.61
5:C:63:HIS:HD2	5:C:66:ALA:H	1.48	0.61
5:D:81:ARG:CZ	5:D:126:TYR:HE2	2.13	0.61
5:D:188:SER:C	5:D:189:ILE:HG12	2.24	0.61
5:D:215:GLY:O	5:D:218:VAL:HG12	2.00	0.61
6:E:286:LEU:O	6:E:287:ALA:C	2.40	0.61
6:E:368:LEU:HD21	6:E:456:LEU:HA	1.82	0.61
6:E:398:VAL:CG1	6:E:399:ASN:H	1.94	0.61
6:E:457:HIS:CE1	6:E:459:LEU:CB	2.82	0.61
8:G:182:ASP:HA	8:G:185:GLN:HG3	1.82	0.61
9:S:147:ASN:HD21	9:S:159:VAL:HB	1.65	0.61
9:S:185:TRP:H	9:S:213:LEU:CB	2.12	0.61
9:S:205:LEU:HD11	9:S:272:LEU:O	2.01	0.61
9:T:88:LYS:HG3	9:T:90:PRO:HD3	1.82	0.61
9:V:126:LEU:HD22	9:V:139:LEU:HD23	1.81	0.61
9:V:144:ILE:HA	9:V:162:LEU:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:153:THR:HG22	9:V:153:THR:O	1.99	0.61
9:V:177:LEU:O	9:V:180:TYR:HB2	2.01	0.61
9:V:285:LEU:HA	9:V:290:ILE:CG1	2.30	0.61
10:X:131:LEU:HD21	10:Y:130:ILE:HD11	1.80	0.61
10:Y:139:THR:OG1	10:Y:140:LEU:N	2.33	0.61
3:A:307:LEU:HD12	3:A:308:GLU:N	2.15	0.61
3:A:396:LEU:N	3:A:396:LEU:CD2	2.63	0.61
3:A:707:ARG:HB2	3:A:868:ILE:CD1	2.30	0.61
3:A:820:PHE:CE2	3:A:835:VAL:HG11	2.36	0.61
3:A:888:GLY:O	3:A:889:VAL:HB	2.01	0.61
3:A:1027:ALA:CB	4:B:318:ILE:CG1	2.79	0.61
4:B:21:PHE:CZ	6:E:497:ILE:HD13	2.35	0.61
4:B:76:THR:O	4:B:372:HIS:HD2	1.82	0.61
4:B:96:ASP:HB2	4:B:422:GLN:OE1	2.00	0.61
4:B:283:ARG:NH1	4:B:297:HIS:HB3	2.15	0.61
4:B:442:VAL:HG21	4:B:996:LEU:HD13	1.83	0.61
4:B:500:ASN:CG	4:B:886:GLY:H	2.04	0.61
5:C:56:VAL:O	5:C:56:VAL:HG13	2.00	0.61
6:E:27:GLU:HA	6:E:37:GLY:HA2	1.78	0.61
7:F:63:ILE:HG13	7:F:64:GLU:N	2.15	0.61
8:G:180:PHE:O	8:G:184:ILE:HG23	2.00	0.61
8:G:299:GLY:N	8:G:301:PHE:HD2	1.98	0.61
9:S:196:PHE:CG	9:S:197:LYS:N	2.66	0.61
9:T:122:ARG:HA	9:V:221:LEU:HB2	1.81	0.61
9:T:163:TYR:HB3	9:T:301:ILE:HG23	1.82	0.61
9:U:170:LEU:C	9:U:170:LEU:HD12	2.25	0.61
9:V:97:ILE:HG21	9:V:205:LEU:CD2	2.30	0.61
9:V:167:ILE:HG22	9:V:241:LEU:CD2	2.29	0.61
10:X:51:ALA:H	10:X:96:THR:HG21	1.65	0.61
1:1:13:DG:H2'	1:1:14:DC:H5'	1.83	0.61
3:A:44:GLU:HG2	3:A:45:GLY:N	2.15	0.61
3:A:239:TYR:CE1	3:A:243:ARG:HD3	2.36	0.61
3:A:271:ARG:CG	3:A:272:VAL:H	2.13	0.61
3:A:986:VAL:HG12	6:E:361:VAL:CG2	2.30	0.61
3:A:1070:PHE:HD1	3:A:1071:LYS:N	1.98	0.61
4:B:57:MET:HE3	4:B:58:VAL:H	1.66	0.61
4:B:233:ILE:CG2	4:B:238:ARG:HD2	2.30	0.61
4:B:900:LEU:HD11	4:B:905:MET:HB2	1.81	0.61
4:B:1053:GLU:HB2	4:B:1059:THR:OG1	2.00	0.61
4:B:1154:ILE:HA	4:B:1190:TYR:CB	2.29	0.61
5:C:63:HIS:NE2	5:C:65:PHE:HB2	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:34:THR:CG2	5:D:180:VAL:CG1	2.78	0.61
5:D:57:ARG:HH21	5:D:162:ASP:HB3	1.65	0.61
5:D:63:HIS:HD2	5:D:66:ALA:H	1.48	0.61
5:D:87:LEU:CA	5:D:121:ILE:HG12	2.30	0.61
5:D:137:GLU:OE2	5:D:139:GLU:HG2	2.00	0.61
6:E:393:ILE:HD11	6:E:400:ASN:O	2.01	0.61
7:F:63:ILE:C	7:F:66:SER:HG	2.05	0.61
8:G:206:PHE:CD1	8:G:210:ALA:HB3	2.03	0.61
8:G:220:ARG:C	8:G:220:ARG:HD2	2.26	0.61
8:G:296:SER:O	8:G:297:ARG:C	2.41	0.61
9:S:178:ALA:HA	9:S:259:ARG:HG3	1.81	0.61
9:T:194:VAL:CG2	9:T:218:GLN:O	2.46	0.61
9:U:167:ILE:O	9:U:168:GLU:HG2	1.99	0.61
9:U:205:LEU:HA	9:U:208:GLU:OE1	2.00	0.61
9:V:97:ILE:HB	9:V:274:ARG:CZ	2.20	0.61
9:V:126:LEU:HD12	9:V:127:GLY:N	2.13	0.61
9:V:144:ILE:CB	9:V:162:LEU:HB3	2.31	0.61
9:V:209:LYS:HE3	9:V:241:LEU:HD21	1.81	0.61
9:V:284:ARG:NE	9:V:290:ILE:CD1	2.64	0.61
10:X:123:LEU:HG	10:Y:123:LEU:HD23	1.82	0.61
3:A:525:ASP:OD2	3:A:526:TYR:CE2	2.53	0.61
3:A:613:GLN:C	3:A:615:PRO:HD2	2.25	0.61
3:A:744:GLY:HA3	3:A:747:ALA:H	1.66	0.61
3:A:769:LEU:HB2	3:A:804:LEU:HB2	1.81	0.61
3:A:827:GLU:N	3:A:827:GLU:CD	2.58	0.61
4:B:37:LYS:CE	6:E:509:PRO:HD2	2.01	0.61
4:B:100:GLY:HA3	4:B:422:GLN:O	2.01	0.61
4:B:597:ARG:HG3	4:B:788:VAL:O	1.99	0.61
4:B:672:VAL:HG22	4:B:686:VAL:CG2	2.31	0.61
4:B:739:ARG:HB3	4:B:740:PRO:HD2	1.82	0.61
4:B:814:ALA:H	4:B:834:ILE:HG12	1.65	0.61
4:B:819:ILE:HG22	4:B:819:ILE:O	2.01	0.61
4:B:905:MET:O	4:B:907:THR:HG23	1.99	0.61
4:B:916:VAL:HG13	4:B:920:ASP:OD2	2.00	0.61
5:D:83:LYS:NZ	5:D:167:ASP:O	2.33	0.61
5:D:215:GLY:O	5:D:219:ASP:OD1	2.18	0.61
6:E:19:PRO:CG	6:E:20:GLU:H	2.07	0.61
6:E:45:ILE:CD1	6:E:50:LEU:HA	2.31	0.61
6:E:69:TRP:HA	6:E:93:VAL:HB	1.82	0.61
6:E:228:LEU:HD23	6:E:229:ARG:N	2.16	0.61
7:F:58:VAL:HG13	7:F:59:LEU:H	1.62	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:117:ARG:HB3	8:G:134:ALA:HA	1.82	0.61
8:G:232:PRO:HG2	8:G:235:LEU:HB3	1.82	0.61
9:S:88:LYS:O	9:S:91:GLU:CG	2.40	0.61
9:S:168:GLU:CG	9:S:247:LEU:CD2	2.76	0.61
9:V:167:ILE:HG23	9:V:241:LEU:HD13	1.74	0.61
9:V:167:ILE:HD13	9:V:202:MET:HE1	1.77	0.61
9:V:188:LEU:HD12	9:V:188:LEU:C	2.25	0.61
9:V:201:GLY:O	9:V:205:LEU:CB	2.48	0.61
3:A:72:TYR:HE1	3:A:74:LEU:HD23	1.66	0.61
3:A:274:ARG:HH22	3:A:288:THR:H	1.46	0.61
3:A:589:VAL:HG11	3:A:675:THR:HG21	1.81	0.61
3:A:591:VAL:HG12	3:A:668:VAL:CG2	2.29	0.61
3:A:608:VAL:CG1	3:A:635:ILE:HB	2.19	0.61
3:A:723:GLU:OE1	3:A:724:ILE:N	2.34	0.61
3:A:737:THR:OG1	3:A:738:ARG:N	2.33	0.61
4:B:13:LEU:O	4:B:14:ARG:C	2.42	0.61
4:B:73:ILE:O	4:B:76:THR:N	2.33	0.61
4:B:350:ARG:HH21	4:B:354:ASP:CG	2.07	0.61
5:C:28:LEU:O	5:C:29:GLU:C	2.43	0.61
5:C:203:SER:OG	5:C:204:ILE:N	2.31	0.61
5:D:88:LYS:HG2	5:D:89:SER:N	2.15	0.61
6:E:125:ILE:O	6:E:128:LEU:HG	2.01	0.61
6:E:145:TYR:CE1	6:E:167:TRP:CD1	2.88	0.61
6:E:277:ARG:HH12	8:G:227:ARG:N	1.99	0.61
8:G:302:ILE:HG22	8:G:303:GLU:N	2.16	0.61
9:T:230:ARG:O	9:T:234:ARG:N	2.29	0.61
9:T:285:LEU:HG	9:T:290:ILE:CG2	2.07	0.61
9:V:146:MET:HE1	9:V:272:LEU:HD23	1.81	0.61
9:V:162:LEU:HD11	9:V:278:MET:HB2	1.81	0.61
9:V:209:LYS:HZ3	9:V:262:ALA:CB	2.11	0.61
3:A:30:LEU:HD21	3:A:400:ARG:HD3	1.82	0.61
3:A:30:LEU:O	3:A:31:ILE:C	2.43	0.61
3:A:330:GLU:HA	3:A:333:GLN:HB3	1.83	0.61
3:A:784:GLU:HG2	8:G:322:LEU:CD2	2.28	0.61
3:A:789:ARG:HD2	3:A:796:ALA:H	1.65	0.61
3:A:869:GLU:HG2	3:A:870:ASP:N	2.16	0.61
3:A:894:ASN:O	3:A:897:GLN:CD	2.43	0.61
4:B:267:ASP:O	4:B:268:LEU:C	2.43	0.61
4:B:437:ASN:CB	4:B:1004:THR:HG22	2.31	0.61
4:B:544:VAL:HG13	4:B:757:SER:CB	2.27	0.61
4:B:865:ILE:O	4:B:866:VAL:C	2.44	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:896:ARG:HG2	4:B:987:LEU:O	2.01	0.61
4:B:990:ARG:O	4:B:992:ASP:N	2.34	0.61
4:B:1158:GLY:C	4:B:1160:THR:N	2.52	0.61
5:C:87:LEU:CA	5:C:121:ILE:HG12	2.29	0.61
6:E:230:VAL:O	6:E:234:PHE:CD2	2.54	0.61
6:E:276:TYR:HA	6:E:279:VAL:CG1	2.31	0.61
6:E:420:GLU:O	6:E:423:ILE:CG1	2.44	0.61
8:G:112:GLU:CD	8:G:115:ARG:NH2	2.58	0.61
9:S:272:LEU:O	9:S:272:LEU:HG	2.00	0.61
9:T:64:LEU:HD12	9:T:67:ALA:HB3	1.81	0.61
9:U:92:LEU:HD22	9:U:290:ILE:HD11	1.78	0.61
9:U:144:ILE:O	9:U:202:MET:HE1	2.01	0.61
9:U:230:ARG:O	9:U:233:VAL:HB	1.99	0.61
10:X:52:VAL:HG21	10:X:94:ALA:CA	2.31	0.61
10:X:158:ARG:HD2	10:X:215:PRO:HB3	1.82	0.61
10:Y:171:ASP:O	10:Y:172:LEU:CG	2.47	0.61
3:A:74:LEU:HB3	3:A:95:MET:HE1	1.83	0.61
3:A:90:THR:HA	3:A:130:ILE:C	2.25	0.61
3:A:420:ARG:NH1	3:A:442:GLY:C	2.58	0.61
3:A:1028:PHE:CE1	6:E:438:ARG:CD	2.83	0.61
3:A:1041:LYS:NZ	6:E:356:TYR:HB2	2.16	0.61
4:B:21:PHE:CE2	6:E:505:PRO:HB3	2.36	0.61
4:B:96:ASP:O	4:B:97:THR:C	2.43	0.61
4:B:564:ILE:HG21	4:B:570:GLN:CG	2.29	0.61
4:B:601:GLY:N	4:B:634:GLU:H	1.98	0.61
4:B:788:VAL:O	4:B:788:VAL:HG22	2.00	0.61
4:B:1111:SER:O	4:B:1115:GLN:HG3	2.00	0.61
5:C:72:ARG:CG	5:C:129:THR:HG21	2.25	0.61
5:D:34:THR:HG23	5:D:180:VAL:CG1	2.24	0.61
5:D:84:GLU:N	5:D:84:GLU:CD	2.59	0.61
5:D:115:PRO:HG2	5:D:118:VAL:HG21	1.82	0.61
5:D:219:ASP:CG	5:D:220:LEU:H	2.07	0.61
6:E:129:LEU:C	6:E:130:ASP:OD1	2.43	0.61
6:E:382:GLU:HB2	6:E:383:LEU:HD23	1.82	0.61
6:E:459:LEU:HD11	6:E:508:THR:O	2.01	0.61
8:G:270:ILE:O	8:G:271:GLU:C	2.39	0.61
9:S:126:LEU:HD13	9:S:131:ALA:HB2	0.67	0.61
9:T:97:ILE:CG2	9:T:100:LEU:CB	2.49	0.61
9:T:156:ASP:HA	9:T:291:LYS:CA	2.30	0.61
9:U:296:LEU:CD2	9:U:301:ILE:CD1	2.63	0.61
9:V:167:ILE:CB	9:V:209:LYS:HZ1	2.04	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:X:171:ASP:O	10:X:172:LEU:CG	2.48	0.61
10:Y:52:VAL:HG21	10:Y:94:ALA:CA	2.31	0.61
3:A:34:GLN:C	3:A:37:SER:HG	2.04	0.61
3:A:183:VAL:HG23	3:A:195:ALA:HB1	1.83	0.61
3:A:306:ASN:CG	3:A:311:ILE:HB	2.26	0.61
3:A:320:LEU:CB	3:A:483:ASP:CG	2.46	0.61
3:A:381:SER:C	3:A:383:LEU:N	2.57	0.61
3:A:464:ARG:HH21	3:A:473:PHE:CB	2.08	0.61
3:A:692:PRO:HD3	3:A:886:PRO:CG	2.31	0.61
4:B:211:GLU:O	4:B:296:GLN:N	2.32	0.61
4:B:481:TRP:NE1	4:B:923:VAL:HG13	2.16	0.61
4:B:488:TYR:CZ	4:B:899:VAL:HG11	2.35	0.61
4:B:513:THR:CG2	4:B:513:THR:O	2.47	0.61
4:B:548:GLN:H	4:B:827:VAL:HG11	1.64	0.61
4:B:775:PRO:HG3	4:B:790:LEU:HB3	1.81	0.61
4:B:896:ARG:NE	4:B:986:ASP:CB	2.61	0.61
4:B:904:ASP:CG	4:B:967:ARG:CG	2.72	0.61
4:B:908:LEU:CD2	4:B:964:VAL:HG21	2.30	0.61
4:B:1046:ALA:O	4:B:1047:ILE:HG12	2.01	0.61
5:D:119:GLU:CD	5:D:121:ILE:HD13	2.26	0.61
6:E:276:TYR:CA	6:E:279:VAL:HG12	2.31	0.61
6:E:444:PHE:N	6:E:492:LEU:HD12	2.15	0.61
7:F:37:ASN:HA	7:F:40:LYS:NZ	2.13	0.61
8:G:230:ARG:O	8:G:231:LEU:HD23	2.00	0.61
8:G:270:ILE:O	8:G:273:LEU:HB2	2.01	0.61
9:S:88:LYS:CB	9:S:91:GLU:CD	2.70	0.61
9:S:134:VAL:O	9:S:137:ASP:OD1	2.19	0.61
9:S:157:MET:CB	9:U:20:LYS:HE2	2.26	0.61
9:S:178:ALA:O	9:S:259:ARG:CG	2.48	0.61
9:T:211:GLU:HA	9:T:214:GLU:HA	1.83	0.61
9:U:126:LEU:CB	9:U:130:ARG:HH11	2.05	0.61
9:U:288:PRO:CB	9:U:291:LYS:HE3	2.09	0.61
9:V:264:SER:HA	9:V:269:ASN:HA	1.82	0.61
3:A:40:TRP:CE2	3:A:44:GLU:CD	2.79	0.61
3:A:423:HIS:CG	3:A:424:PRO:HD2	2.36	0.61
3:A:488:LEU:HD22	3:A:526:TYR:CD2	2.36	0.61
3:A:552:ARG:HH22	3:A:892:ARG:CD	1.96	0.61
3:A:567:LEU:O	3:A:569:PRO:HD3	2.01	0.61
3:A:772:LYS:HB3	3:A:803:SER:CA	2.31	0.61
4:B:195:TYR:N	4:B:198:ARG:CD	2.64	0.61
4:B:355:GLY:CA	4:B:412:ILE:HD11	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:452:GLU:O	4:B:483:LEU:N	2.34	0.61
4:B:573:ASN:H	4:B:590:GLU:H	1.49	0.61
4:B:631:TRP:CD1	4:B:633:PRO:HD3	2.35	0.61
4:B:885:ARG:O	4:B:898:LEU:HB2	2.00	0.61
4:B:919:GLY:N	4:B:941:VAL:HA	2.16	0.61
4:B:1049:ILE:CG2	4:B:1063:LEU:CA	2.76	0.61
4:B:1152:VAL:HG22	4:B:1169:GLU:C	2.26	0.61
5:C:177:ASN:O	5:C:196:LEU:HB2	2.00	0.61
6:E:473:MET:HG3	6:E:474:ALA:N	2.15	0.61
9:S:81:LEU:CD1	9:S:81:LEU:N	2.60	0.61
9:T:165:GLU:O	9:T:166:PRO:C	2.43	0.61
9:U:99:SER:HB2	9:U:245:SER:OG	2.01	0.61
9:U:165:GLU:HG2	9:U:245:SER:CB	2.30	0.61
9:U:167:ILE:CD1	9:U:262:ALA:CB	2.78	0.61
9:U:208:GLU:C	9:U:212:ARG:HD2	2.26	0.61
9:V:169:LEU:HD12	9:V:170:LEU:H	1.66	0.61
10:X:212:VAL:HB	10:X:218:LEU:HD13	1.81	0.61
10:Y:168:ILE:HG23	10:Y:168:ILE:O	2.01	0.61
3:A:752:ASP:HB3	3:A:756:ILE:HG23	1.82	0.60
3:A:1048:ARG:HG2	3:A:1049:ASN:H	1.66	0.60
4:B:173:ILE:HG23	4:B:177:TYR:CE1	2.36	0.60
4:B:245:GLY:C	4:B:260:ARG:HH11	2.09	0.60
4:B:251:PRO:O	4:B:253:THR:N	2.34	0.60
4:B:607:ALA:HB2	4:B:630:LEU:HD23	1.83	0.60
4:B:678:ASN:O	4:B:679:ASP:HB2	2.00	0.60
4:B:901:ARG:H	4:B:904:ASP:CB	2.14	0.60
4:B:1097:PHE:CD2	4:B:1113:ALA:HB2	2.36	0.60
4:B:1205:ASP:HB2	4:B:1209:SER:O	2.01	0.60
5:C:96:ILE:HG23	5:C:140:PHE:H	1.66	0.60
6:E:84:ILE:CG2	6:E:93:VAL:H	2.14	0.60
6:E:447:ILE:CG2	6:E:449:VAL:CG2	2.70	0.60
6:E:533:LYS:O	6:E:535:PHE:CD2	2.54	0.60
8:G:343:LEU:C	8:G:345:ASP:H	2.08	0.60
9:T:109:LEU:CA	9:T:296:LEU:HD13	2.28	0.60
9:T:225:THR:HG22	9:V:124:THR:HA	1.82	0.60
9:U:142:LEU:HD13	9:U:278:MET:HB3	1.83	0.60
9:U:167:ILE:HD11	9:U:272:LEU:HB3	1.82	0.60
9:V:232:VAL:HB	9:V:237:GLU:N	2.16	0.60
10:X:69:LEU:CD1	10:X:73:SER:HB2	2.31	0.60
10:Y:166:ASP:HA	10:Y:213:HIS:CE1	2.36	0.60
3:A:53:PHE:HE1	3:A:265:LYS:HD3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:161:TYR:CD2	3:A:308:GLU:HA	2.35	0.60
3:A:287:ASP:O	3:A:289:VAL:N	2.35	0.60
3:A:304:LEU:HA	3:A:307:LEU:CD2	2.30	0.60
3:A:452:ARG:CZ	3:A:460:GLU:OE1	2.49	0.60
3:A:546:GLU:HG3	3:A:547:HIS:N	2.14	0.60
3:A:749:ARG:CZ	3:A:749:ARG:CB	2.62	0.60
3:A:767:ASP:O	3:A:805:ARG:HA	2.01	0.60
4:B:136:GLN:N	4:B:136:GLN:OE1	2.29	0.60
4:B:237:THR:O	4:B:240:LEU:HD12	2.00	0.60
4:B:676:GLN:HE22	4:B:680:ILE:C	2.09	0.60
4:B:794:GLN:NE2	4:B:795:LEU:H	1.99	0.60
5:C:58:ILE:HD12	5:C:138:MET:HG2	1.83	0.60
6:E:30:LEU:O	6:E:34:GLN:N	2.33	0.60
6:E:158:TYR:CG	6:E:159:LYS:N	2.67	0.60
6:E:377:ARG:CD	6:E:450:GLU:HB2	2.30	0.60
7:F:13:GLN:N	7:F:13:GLN:OE1	2.33	0.60
8:G:303:GLU:OE2	8:G:304:SER:N	2.34	0.60
9:S:172:ALA:N	9:S:175:HIS:HB2	2.16	0.60
9:T:123:VAL:HG21	9:V:223:VAL:CA	2.31	0.60
9:T:239:ILE:CG2	9:T:240:ALA:N	2.63	0.60
9:U:171:THR:HB	9:U:175:HIS:HB2	1.83	0.60
9:V:159:VAL:CG1	9:V:160:GLU:O	2.49	0.60
9:V:191:TYR:O	9:V:193:GLN:N	2.34	0.60
9:V:210:PHE:HA	9:V:215:ALA:N	2.14	0.60
9:V:296:LEU:CB	9:V:300:ASN:OD1	2.41	0.60
10:X:101:LEU:HD23	10:X:102:SER:CA	2.31	0.60
10:X:126:LEU:HD22	10:Y:126:LEU:CG	2.30	0.60
3:A:103:ASN:HB2	3:A:105:GLU:N	2.16	0.60
3:A:184:TRP:CA	3:A:195:ALA:HB2	2.21	0.60
3:A:274:ARG:O	3:A:275:TYR:C	2.44	0.60
3:A:501:GLY:O	3:A:502:TYR:C	2.44	0.60
3:A:607:ARG:CZ	3:A:607:ARG:CB	2.53	0.60
3:A:749:ARG:HH21	3:A:750:GLN:H	1.47	0.60
3:A:998:TYR:HA	3:A:1005:PRO:CA	2.31	0.60
4:B:3:PHE:CE1	4:B:4:ARG:O	2.54	0.60
4:B:299:TYR:CZ	4:B:1139:LYS:HG3	2.36	0.60
4:B:507:ASN:HB2	4:B:877:LEU:CD2	2.29	0.60
4:B:602:GLY:C	4:B:632:ILE:O	2.43	0.60
4:B:658:THR:HA	4:B:666:CYS:O	2.00	0.60
4:B:1111:SER:O	4:B:1113:ALA:C	2.44	0.60
5:C:5:GLN:NE2	5:C:5:GLN:O	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:229:ARG:O	6:E:233:ASN:N	2.34	0.60
6:E:252:ILE:C	6:E:257:ARG:HH12	2.09	0.60
6:E:260:VAL:HG12	6:E:268:ALA:HB3	1.77	0.60
6:E:289:LEU:O	6:E:292:ILE:N	2.33	0.60
6:E:330:PRO:O	6:E:331:LEU:C	2.44	0.60
9:T:239:ILE:HG22	9:T:240:ALA:N	2.16	0.60
9:V:8:ALA:N	9:V:25:CYS:SG	2.74	0.60
10:Y:56:ARG:HH11	10:Y:58:TYR:N	1.98	0.60
1:1:100:DA:N1	8:G:202:LYS:HG2	2.17	0.60
3:A:229:PHE:HA	3:A:232:GLU:HB2	1.83	0.60
3:A:614:LEU:HA	3:A:617:ALA:H	1.66	0.60
3:A:698:TYR:CE2	3:A:699:GLU:OE2	2.54	0.60
3:A:713:ILE:HG22	3:A:714:TYR:HD1	1.66	0.60
3:A:905:TRP:HZ3	3:A:974:ILE:HG13	1.67	0.60
3:A:1084:ILE:HG12	6:E:12:VAL:HG12	1.84	0.60
4:B:43:TYR:N	4:B:43:TYR:HD1	1.95	0.60
4:B:52:SER:N	4:B:55:ASP:HB2	2.16	0.60
4:B:289:GLU:HA	4:B:1171:ARG:HH22	1.67	0.60
4:B:296:GLN:HG2	4:B:308:MET:HE2	1.84	0.60
4:B:481:TRP:HE1	4:B:923:VAL:HG13	1.66	0.60
4:B:617:ALA:O	4:B:621:TYR:HE1	1.83	0.60
4:B:857:LEU:HA	4:B:871:VAL:O	2.01	0.60
4:B:1094:LEU:HD22	4:B:1194:LEU:HG	1.83	0.60
4:B:1207:PHE:CG	4:B:1220:LEU:HD11	2.32	0.60
4:B:1214:GLN:O	4:B:1215:GLU:HG3	2.01	0.60
5:D:117:GLU:O	5:D:118:VAL:C	2.44	0.60
6:E:138:GLN:CD	6:E:143:ASN:HB2	2.26	0.60
6:E:171:GLU:CD	6:E:171:GLU:H	2.06	0.60
6:E:412:ASP:OD2	6:E:413:PRO:HG2	2.01	0.60
6:E:509:PRO:CB	6:E:513:MET:CE	2.74	0.60
7:F:36:ALA:O	7:F:40:LYS:HG2	2.01	0.60
8:G:290:ILE:HG23	8:G:296:SER:C	2.25	0.60
8:G:351:LEU:HD13	8:G:366:ARG:NH2	2.16	0.60
8:G:366:ARG:HB2	8:G:367:GLN:NE2	2.17	0.60
9:S:165:GLU:OE1	9:S:245:SER:OG	2.17	0.60
9:T:162:LEU:O	9:T:276:VAL:HG21	2.02	0.60
9:T:194:VAL:CG1	9:T:203:GLN:HE22	2.15	0.60
9:U:138:GLY:CA	9:U:141:ASP:CA	2.52	0.60
9:U:192:PRO:HB3	9:U:218:GLN:O	2.02	0.60
9:V:119:VAL:CG1	9:V:121:LEU:HD23	2.31	0.60
10:X:56:ARG:HH11	10:X:58:TYR:N	1.98	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:47:LEU:HD21	10:Y:98:VAL:HG13	1.83	0.60
3:A:135:ARG:HB3	3:A:385:GLN:O	2.00	0.60
3:A:298:LEU:O	3:A:302:ASP:OD1	2.19	0.60
3:A:524:VAL:O	3:A:525:ASP:HB3	1.99	0.60
4:B:37:LYS:CD	6:E:509:PRO:HB3	2.27	0.60
4:B:87:GLU:C	4:B:89:GLU:N	2.55	0.60
4:B:487:VAL:HA	4:B:987:LEU:HD23	1.82	0.60
4:B:504:VAL:HG12	4:B:884:VAL:HG21	1.82	0.60
5:C:69:PRO:C	5:C:71:VAL:H	2.10	0.60
5:C:88:LYS:HG2	5:C:89:SER:N	2.16	0.60
5:C:194:LEU:C	5:C:195:LEU:HD12	2.26	0.60
5:D:194:LEU:HD23	5:D:196:LEU:CD2	2.13	0.60
6:E:41:LYS:HG2	6:E:55:ASP:OD2	2.01	0.60
6:E:158:TYR:CD2	6:E:159:LYS:HG2	2.36	0.60
6:E:314:ILE:HG22	6:E:314:ILE:O	2.02	0.60
6:E:485:ALA:O	6:E:487:ALA:N	2.34	0.60
7:F:40:LYS:HG3	7:F:41:ARG:H	1.65	0.60
8:G:80:ASP:HB3	8:G:83:ARG:CG	2.31	0.60
9:S:220:ALA:HB1	9:U:117:PRO:HD3	1.84	0.60
9:S:287:ILE:HB	9:S:289:PRO:HD2	1.83	0.60
9:T:166:PRO:O	9:T:167:ILE:C	2.45	0.60
9:T:185:TRP:CB	9:T:213:LEU:CB	2.79	0.60
9:T:193:GLN:HE22	9:T:239:ILE:CA	2.13	0.60
9:T:193:GLN:N	9:T:217:LEU:HA	2.15	0.60
9:T:288:PRO:HA	9:T:291:LYS:HB2	1.84	0.60
9:T:294:TRP:NE1	9:T:298:ARG:HD2	2.16	0.60
9:U:150:PHE:O	9:U:151:LEU:CG	2.50	0.60
9:V:97:ILE:HG23	9:V:202:MET:CG	2.31	0.60
9:V:112:PHE:HB2	9:V:296:LEU:CD1	2.31	0.60
9:V:175:HIS:CB	9:V:234:ARG:HA	2.28	0.60
10:X:188:VAL:C	10:X:190:VAL:N	2.59	0.60
10:X:204:SER:N	10:X:210:ILE:HA	2.17	0.60
10:Y:49:LYS:N	10:Y:99:GLU:O	2.34	0.60
1:1:113:DT:C5	3:A:414:ARG:CG	2.75	0.60
3:A:1039:THR:HB	3:A:1040:VAL:HG13	1.84	0.60
3:A:1055:ILE:CD1	6:E:387:PHE:HE1	1.76	0.60
4:B:25:GLY:HA3	4:B:28:ARG:NH2	2.15	0.60
4:B:799:ILE:HB	4:B:813:ALA:HB1	1.82	0.60
4:B:864:THR:HG23	4:B:867:PRO:HD3	1.82	0.60
5:D:5:GLN:NE2	5:D:5:GLN:O	2.34	0.60
5:D:43:VAL:HG12	5:D:213:ALA:HB1	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:69:PRO:C	5:D:71:VAL:H	2.10	0.60
5:D:73:GLU:OE2	5:D:126:TYR:OH	2.19	0.60
6:E:78:ARG:CG	8:G:346:GLY:HA3	2.30	0.60
6:E:81:HIS:CD2	6:E:84:ILE:HD13	2.36	0.60
6:E:398:VAL:HG12	6:E:404:ALA:CB	2.31	0.60
6:E:443:ALA:HB3	6:E:491:MET:O	2.02	0.60
7:F:43:ARG:O	7:F:44:TYR:C	2.45	0.60
8:G:269:THR:HB	8:G:271:GLU:OE1	2.01	0.60
8:G:341:TYR:CE1	8:G:365:ILE:HD11	2.36	0.60
9:S:168:GLU:HB3	9:S:261:LEU:HD11	1.84	0.60
9:T:142:LEU:HD11	9:T:293:PHE:HE2	1.64	0.60
9:T:170:LEU:CD1	9:T:229:PHE:CZ	2.72	0.60
9:U:168:GLU:HB2	9:U:244:SER:HB2	1.82	0.60
9:U:181:GLU:CG	9:U:259:ARG:HG2	2.31	0.60
9:V:49:HIS:NE2	9:V:57:THR:CB	2.64	0.60
9:V:203:GLN:OE1	9:V:206:VAL:CB	2.49	0.60
10:X:179:ILE:CG2	10:X:183:ILE:HD11	2.31	0.60
1:1:105:DG:H1	3:A:246:GLU:HB3	1.66	0.60
3:A:280:LYS:C	3:A:282:ARG:N	2.55	0.60
3:A:423:HIS:CG	3:A:424:PRO:CD	2.85	0.60
3:A:525:ASP:OD2	3:A:525:ASP:N	2.32	0.60
3:A:547:HIS:HD2	4:B:166:GLY:CA	2.13	0.60
3:A:584:ARG:CD	3:A:591:VAL:HG11	2.28	0.60
3:A:678:GLY:C	3:A:679:GLU:OE1	2.45	0.60
4:B:56:LEU:O	4:B:164:ARG:HD2	2.01	0.60
4:B:88:VAL:HG12	4:B:89:GLU:CD	2.27	0.60
4:B:260:ARG:HG3	4:B:261:ASN:CG	2.27	0.60
4:B:267:ASP:O	4:B:270:LYS:N	2.35	0.60
4:B:490:LEU:CA	4:B:876:ILE:HD11	2.31	0.60
4:B:616:LYS:HB3	4:B:620:GLY:O	2.02	0.60
4:B:726:GLN:HG3	4:B:728:VAL:O	2.00	0.60
4:B:854:GLN:NE2	4:B:875:GLN:O	2.34	0.60
4:B:885:ARG:N	4:B:898:LEU:O	2.34	0.60
4:B:1106:VAL:HG13	4:B:1107:TYR:CD1	2.36	0.60
5:D:30:ARG:HD2	5:D:31:GLY:N	2.16	0.60
6:E:578:THR:CB	6:E:584:ARG:HA	2.31	0.60
8:G:131:SER:O	8:G:134:ALA:CB	2.49	0.60
8:G:372:ALA:HA	8:G:375:LYS:CG	2.31	0.60
8:G:381:ARG:C	8:G:382:ASN:OD1	2.44	0.60
9:S:57:THR:O	9:S:58:LEU:HD12	2.01	0.60
9:S:81:LEU:O	9:S:86:ALA:HA	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:148:ASN:O	9:S:149:ARG:CG	2.49	0.60
9:T:167:ILE:HG12	9:T:206:VAL:HG22	1.83	0.60
9:T:189:VAL:HG12	9:T:193:GLN:HG2	1.80	0.60
9:T:231:GLY:CA	9:V:105:LEU:HD21	2.29	0.60
9:U:143:ALA:O	9:U:293:PHE:HE2	1.84	0.60
9:V:169:LEU:HB2	9:V:261:LEU:CD2	2.31	0.60
9:V:188:LEU:HD22	9:V:261:LEU:CD1	2.31	0.60
10:Y:56:ARG:HG2	10:Y:66:VAL:HB	1.83	0.60
3:A:64:GLU:HG2	3:A:103:ASN:N	2.17	0.60
3:A:256:LEU:C	3:A:257:LEU:HG	2.20	0.60
3:A:532:VAL:HG11	3:A:535:VAL:HG11	1.82	0.60
3:A:701:ALA:HB1	6:E:364:VAL:CG1	2.32	0.60
3:A:740:ILE:HG23	3:A:741:PRO:CD	2.31	0.60
3:A:822:ARG:NH2	3:A:832:ALA:O	2.34	0.60
3:A:1070:PHE:CD2	4:B:1241:ILE:HG13	2.37	0.60
4:B:966:ILE:HG12	4:B:967:ARG:O	2.01	0.60
5:C:68:VAL:O	5:C:68:VAL:HG13	2.01	0.60
5:C:119:GLU:CD	5:C:121:ILE:HD13	2.26	0.60
5:C:181:GLU:CD	5:C:193:ARG:HB3	2.27	0.60
6:E:35:VAL:O	6:E:35:VAL:HG13	2.01	0.60
6:E:81:HIS:O	6:E:82:ARG:HD2	2.02	0.60
6:E:305:MET:HE3	8:G:181:GLN:CD	2.27	0.60
6:E:372:GLN:HB3	6:E:445:GLU:HB2	1.84	0.60
8:G:192:ILE:C	8:G:194:ALA:N	2.57	0.60
8:G:198:PHE:CG	8:G:199:ASP:N	2.69	0.60
8:G:351:LEU:CD1	8:G:366:ARG:HH21	2.14	0.60
8:G:363:GLU:CG	8:G:364:ARG:N	2.64	0.60
9:S:56:LEU:O	9:S:56:LEU:HG	2.01	0.60
9:S:207:GLN:O	9:S:211:GLU:HB3	2.02	0.60
9:S:232:VAL:HB	9:S:238:LEU:HD23	1.83	0.60
9:T:100:LEU:HD21	9:T:301:ILE:HD12	1.82	0.60
9:U:288:PRO:CB	9:U:291:LYS:CG	2.79	0.60
10:X:130:ILE:CD1	10:Y:130:ILE:HG21	2.30	0.60
10:Y:69:LEU:CD1	10:Y:73:SER:HB2	2.31	0.60
10:Y:118:LEU:O	10:Y:122:MET:HB2	2.02	0.60
3:A:397:THR:HG23	3:A:398:HIS:N	2.15	0.60
3:A:464:ARG:O	3:A:526:TYR:HA	2.02	0.60
3:A:532:VAL:HG13	3:A:535:VAL:CG1	2.30	0.60
3:A:828:LEU:HD12	3:A:830:PRO:HA	1.84	0.60
3:A:898:VAL:O	3:A:902:LEU:HG	2.02	0.60
4:B:72:GLU:OE1	4:B:73:ILE:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:72:GLU:OE1	4:B:97:THR:HG21	2.02	0.60
4:B:445:VAL:CG1	4:B:994:LEU:HB2	2.25	0.60
4:B:575:ARG:H	4:B:589:ALA:HA	1.66	0.60
4:B:815:ASP:HB3	4:B:832:LEU:CB	2.21	0.60
5:C:73:GLU:OE2	5:C:126:TYR:OH	2.19	0.60
6:E:44:THR:HG23	6:E:45:ILE:O	2.01	0.60
6:E:377:ARG:HD2	6:E:450:GLU:HB2	1.82	0.60
6:E:593:VAL:HG21	6:E:601:VAL:HB	1.83	0.60
9:S:132:LEU:HB2	9:S:149:ARG:HB3	1.84	0.60
9:S:147:ASN:CB	9:S:161:VAL:CG1	2.79	0.60
9:T:157:MET:HE1	9:T:285:LEU:HD13	1.84	0.60
9:T:185:TRP:CB	9:T:213:LEU:HB2	2.24	0.60
9:T:202:MET:HG2	9:T:205:LEU:HD21	1.83	0.60
9:V:91:GLU:OE1	9:V:284:ARG:HG3	2.02	0.60
9:V:247:LEU:HA	9:V:250:ALA:HB3	1.83	0.60
10:X:95:PHE:HE2	10:X:172:LEU:CD1	2.15	0.60
10:X:98:VAL:HG12	10:X:100:LEU:HD11	1.83	0.60
10:Y:49:LYS:HD3	10:Y:49:LYS:C	2.26	0.60
3:A:246:GLU:HB2	3:A:247:PRO:HD2	1.84	0.60
3:A:253:GLY:HA2	3:A:256:LEU:HB2	1.83	0.60
3:A:335:GLN:HB2	3:A:377:PHE:CZ	2.37	0.60
3:A:677:GLY:H	3:A:679:GLU:CD	2.00	0.60
3:A:1048:ARG:CG	3:A:1049:ASN:N	2.63	0.60
3:A:1087:HIS:NE2	6:E:11:TYR:CE1	2.70	0.60
4:B:182:GLY:O	4:B:183:LEU:C	2.43	0.60
4:B:225:MET:HB3	4:B:233:ILE:HB	1.84	0.60
4:B:534:THR:HG22	4:B:534:THR:O	2.02	0.60
4:B:535:ARG:HB2	4:B:840:LEU:HB2	1.84	0.60
4:B:550:THR:HB	4:B:565:THR:O	2.02	0.60
4:B:1037:LYS:CD	4:B:1053:GLU:N	2.62	0.60
5:C:10:GLU:CD	5:C:10:GLU:C	2.70	0.60
5:D:96:ILE:HG23	5:D:140:PHE:H	1.66	0.60
5:D:120:VAL:C	5:D:122:ASP:N	2.57	0.60
5:D:141:ARG:HH22	5:D:155:ARG:NH1	2.00	0.60
6:E:46:ASN:O	6:E:49:THR:O	2.20	0.60
6:E:191:GLU:CA	6:E:194:LEU:CD2	2.79	0.60
6:E:426:HIS:NE2	7:F:56:LYS:HD3	2.17	0.60
8:G:353:GLU:O	8:G:357:ILE:HG12	2.02	0.60
9:S:70:ILE:HG23	9:T:66:ARG:CD	2.28	0.60
9:T:162:LEU:CA	9:T:301:ILE:CG2	2.80	0.60
9:U:96:ALA:N	9:U:123:VAL:HG21	2.13	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:111:LYS:NZ	9:U:292:HIS:HD2	1.94	0.60
9:U:208:GLU:O	9:U:212:ARG:CD	2.49	0.60
10:X:46:PHE:CD2	10:X:46:PHE:O	2.55	0.60
10:X:46:PHE:HE2	10:X:48:LEU:HD11	1.67	0.60
3:A:238:LEU:HD13	3:A:253:GLY:HA3	1.83	0.59
3:A:261:PHE:HB2	3:A:262:PHE:CE1	2.36	0.59
3:A:542:ILE:CD1	3:A:545:LEU:CD2	2.74	0.59
3:A:727:ARG:HG2	3:A:728:GLN:N	2.16	0.59
3:A:926:GLU:HB2	3:A:929:ARG:CG	2.31	0.59
3:A:932:VAL:HG22	3:A:933:HIS:CE1	2.37	0.59
3:A:959:VAL:O	3:A:961:ASP:OD1	2.20	0.59
4:B:93:LYS:CG	4:B:375:ASP:HA	2.32	0.59
4:B:95:ILE:HG13	4:B:146:LEU:HD23	1.83	0.59
4:B:280:VAL:HG22	4:B:281:VAL:N	2.16	0.59
4:B:653:TYR:OH	4:B:668:ASN:CG	2.45	0.59
4:B:687:LYS:HE3	4:B:781:ARG:HH12	1.67	0.59
6:E:19:PRO:HA	6:E:22:ILE:CG1	2.30	0.59
6:E:398:VAL:CG1	6:E:404:ALA:CB	2.80	0.59
6:E:520:LEU:HA	6:E:552:LEU:HD22	1.83	0.59
8:G:106:LYS:O	8:G:109:ASP:N	2.35	0.59
8:G:192:ILE:CG1	8:G:193:ARG:H	2.03	0.59
8:G:374:ARG:C	8:G:376:LEU:H	2.08	0.59
9:T:49:HIS:C	9:T:51:THR:N	2.53	0.59
9:T:123:VAL:CG2	9:V:223:VAL:HA	2.31	0.59
9:U:208:GLU:C	9:U:212:ARG:CD	2.75	0.59
10:X:202:MET:HE3	10:X:212:VAL:HG23	1.84	0.59
3:A:449:THR:HG21	3:A:535:VAL:CB	2.31	0.59
3:A:542:ILE:CG2	3:A:545:LEU:CA	2.79	0.59
3:A:690:TYR:N	3:A:690:TYR:CD1	2.67	0.59
3:A:999:SER:H	3:A:1004:GLN:N	2.00	0.59
3:A:1017:PHE:HB3	6:E:353:ARG:HA	1.83	0.59
3:A:1087:HIS:HB3	3:A:1096:SER:HA	1.84	0.59
4:B:72:GLU:OE2	4:B:97:THR:OG1	2.20	0.59
4:B:203:VAL:HG11	4:B:1197:ILE:HG22	1.84	0.59
4:B:218:ARG:HH21	4:B:289:GLU:H	1.47	0.59
4:B:225:MET:CG	4:B:232:LEU:CD2	2.66	0.59
4:B:416:GLN:O	4:B:421:GLY:HA2	2.02	0.59
4:B:452:GLU:CA	4:B:987:LEU:HA	2.32	0.59
4:B:866:VAL:O	4:B:867:PRO:C	2.45	0.59
4:B:1009:GLN:OE1	4:B:1013:ARG:HG2	2.03	0.59
4:B:1245:ILE:HD12	4:B:1246:PRO:C	2.27	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:194:LEU:HD23	5:C:194:LEU:H	1.67	0.59
5:D:67:THR:HA	5:D:74:ASP:CG	2.27	0.59
5:D:77:GLU:HA	5:D:80:MET:HB2	1.84	0.59
5:D:91:SER:C	5:D:93:GLN:N	2.58	0.59
5:D:98:ARG:CA	5:D:139:GLU:HG3	2.29	0.59
6:E:457:HIS:ND1	6:E:457:HIS:O	2.35	0.59
9:T:196:PHE:H	9:T:203:GLN:CB	2.09	0.59
9:T:289:PRO:O	9:T:292:HIS:HB2	2.02	0.59
9:T:293:PHE:CE2	9:T:297:VAL:CG2	2.84	0.59
9:U:297:VAL:CA	9:U:302:PRO:HD3	2.22	0.59
9:V:12:ILE:HA	9:V:15:THR:CG2	2.32	0.59
10:Y:109:GLU:OE2	10:Y:113:LYS:HE2	2.02	0.59
10:Y:169:THR:OG1	10:Y:209:LYS:CD	2.50	0.59
3:A:302:ASP:OD1	3:A:303:TYR:N	2.34	0.59
3:A:304:LEU:C	3:A:307:LEU:HG	2.24	0.59
3:A:387:MET:HG2	3:A:395:GLU:CD	2.24	0.59
3:A:465:PRO:HA	3:A:525:ASP:OD1	2.03	0.59
3:A:520:THR:C	3:A:522:GLU:OE2	2.44	0.59
3:A:542:ILE:CG2	3:A:545:LEU:N	2.65	0.59
3:A:573:LEU:HD23	3:A:574:VAL:N	2.17	0.59
3:A:575:GLY:HA2	3:A:913:ARG:HH22	1.68	0.59
3:A:702:ILE:HB	3:A:862:ILE:HG12	1.85	0.59
3:A:725:GLU:OE1	3:A:835:VAL:HA	2.02	0.59
3:A:737:THR:CB	3:A:773:VAL:HG23	2.32	0.59
3:A:744:GLY:O	3:A:747:ALA:HB3	2.02	0.59
3:A:749:ARG:C	3:A:751:LEU:N	2.59	0.59
3:A:767:ASP:CB	3:A:806:VAL:HG12	2.33	0.59
4:B:296:GLN:CD	4:B:297:HIS:N	2.60	0.59
4:B:299:TYR:HA	4:B:1139:LYS:HZ1	1.66	0.59
4:B:562:TYR:C	4:B:574:LEU:HD11	2.27	0.59
4:B:979:VAL:HG23	4:B:996:LEU:HB2	1.84	0.59
4:B:1033:GLY:HA3	4:B:1053:GLU:CD	2.27	0.59
4:B:1160:THR:HG22	4:B:1180:MET:CG	2.31	0.59
4:B:1213:PHE:O	4:B:1213:PHE:CD1	2.54	0.59
4:B:1216:THR:HG23	4:B:1217:THR:HG22	1.84	0.59
5:C:206:PRO:HA	5:C:210:LEU:H	1.66	0.59
5:C:221:PHE:CD1	5:D:36:VAL:HB	2.35	0.59
6:E:49:THR:CB	6:E:51:LYS:HZ2	2.15	0.59
6:E:305:MET:CE	8:G:181:GLN:CD	2.76	0.59
8:G:88:GLU:N	8:G:88:GLU:OE1	2.35	0.59
8:G:107:ILE:O	8:G:111:LEU:HG	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:183:VAL:HG12	9:T:184:PRO:CG	2.33	0.59
9:T:195:VAL:H	9:T:203:GLN:NE2	2.00	0.59
9:T:225:THR:HB	9:V:125:SER:H	1.67	0.59
9:V:183:VAL:HB	9:V:261:LEU:CD1	2.20	0.59
2:2:80:DT:C7	9:S:29:GLN:O	2.51	0.59
3:A:489:ARG:HA	3:A:512:TYR:CA	2.25	0.59
3:A:505:GLY:O	3:A:506:PRO:C	2.45	0.59
3:A:539:THR:HG22	3:A:561:ARG:HH21	1.59	0.59
3:A:598:VAL:HA	3:A:615:PRO:HB3	1.83	0.59
4:B:229:SER:HB2	4:B:406:GLN:O	2.01	0.59
4:B:676:GLN:OE1	4:B:677:LYS:N	2.35	0.59
4:B:1001:ARG:CZ	4:B:1002:ALA:HB3	2.32	0.59
4:B:1187:ARG:HG2	4:B:1187:ARG:O	2.02	0.59
5:C:63:HIS:NE2	5:C:65:PHE:N	2.50	0.59
5:C:161:LEU:O	5:C:162:ASP:C	2.43	0.59
5:D:63:HIS:NE2	5:D:65:PHE:N	2.50	0.59
5:D:213:ALA:C	5:D:216:ILE:H	2.10	0.59
6:E:412:ASP:OD1	6:E:412:ASP:C	2.44	0.59
8:G:273:LEU:O	8:G:274:ARG:C	2.44	0.59
9:S:81:LEU:H	9:S:81:LEU:HD12	1.67	0.59
9:T:206:VAL:HG22	9:T:241:LEU:CD1	2.23	0.59
9:U:12:ILE:HG22	9:U:18:PHE:CE1	2.34	0.59
9:V:48:PHE:O	9:V:49:HIS:CG	2.55	0.59
10:Y:157:CYS:HB2	10:Y:170:ILE:HA	1.84	0.59
2:2:62:DA:N6	10:Y:187:ARG:NE	2.46	0.59
3:A:64:GLU:HG2	3:A:103:ASN:CA	2.32	0.59
3:A:128:PHE:O	3:A:129:ILE:C	2.45	0.59
3:A:360:THR:HG22	3:A:363:SER:HB2	1.85	0.59
3:A:727:ARG:HH11	3:A:729:THR:CA	1.99	0.59
3:A:771:GLY:HA2	3:A:803:SER:HB3	1.84	0.59
3:A:937:GLN:O	3:A:940:ARG:HG2	2.03	0.59
4:B:494:ALA:HA	4:B:513:THR:HB	1.83	0.59
6:E:537:SER:HA	6:E:558:VAL:CG1	2.33	0.59
6:E:578:THR:CA	6:E:584:ARG:HA	2.33	0.59
6:E:585:THR:HG22	6:E:592:ARG:HH21	1.68	0.59
8:G:229:ILE:N	8:G:229:ILE:HD12	2.17	0.59
9:T:42:ASP:O	9:T:43:LEU:HD12	2.02	0.59
9:T:149:ARG:HA	9:T:277:VAL:HG12	1.85	0.59
9:T:167:ILE:HG21	9:T:209:LYS:HG3	1.85	0.59
9:U:278:MET:HE2	9:U:294:TRP:CB	2.32	0.59
9:U:288:PRO:HB3	9:U:291:LYS:CD	2.22	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:292:HIS:O	9:U:296:LEU:N	2.36	0.59
9:U:296:LEU:O	9:U:297:VAL:HB	2.01	0.59
9:V:10:LEU:HD11	9:V:64:LEU:HG	1.84	0.59
9:V:191:TYR:CD2	9:V:239:ILE:HG13	2.32	0.59
10:Y:83:GLY:N	10:Y:86:SER:HG	1.98	0.59
10:Y:156:LEU:HG	10:Y:160:PHE:CZ	2.37	0.59
10:Y:168:ILE:HG22	10:Y:212:VAL:HG23	1.83	0.59
3:A:49:GLU:HB2	3:A:337:ARG:HG2	1.84	0.59
3:A:423:HIS:O	3:A:424:PRO:C	2.44	0.59
3:A:488:LEU:HD22	3:A:526:TYR:CE2	2.38	0.59
3:A:669:LEU:C	3:A:669:LEU:HD12	2.28	0.59
3:A:728:GLN:O	3:A:733:PRO:HG3	2.02	0.59
4:B:106:LYS:HD2	4:B:109:VAL:CG1	2.32	0.59
4:B:146:LEU:CG	4:B:154:ILE:HD13	2.32	0.59
4:B:601:GLY:CA	4:B:634:GLU:H	2.15	0.59
4:B:1097:PHE:CZ	4:B:1112:HIS:CD2	2.90	0.59
4:B:1109:CYS:HA	4:B:1112:HIS:CB	2.31	0.59
5:C:189:ILE:CG2	5:C:190:PRO:HD2	2.30	0.59
8:G:206:PHE:HA	8:G:209:TYR:HB3	1.85	0.59
8:G:322:LEU:CD2	8:G:343:LEU:HD21	2.32	0.59
8:G:336:VAL:HG13	8:G:358:PHE:CD2	2.37	0.59
9:T:168:GLU:HB2	9:T:242:LEU:O	2.01	0.59
9:U:225:THR:HB	9:U:228:ALA:HB3	1.85	0.59
9:V:158:VAL:HB	9:V:281:THR:CA	2.21	0.59
9:V:172:ALA:H	9:V:177:LEU:CB	2.15	0.59
9:V:190:ARG:O	9:V:191:TYR:CD1	2.55	0.59
9:V:288:PRO:HB2	9:V:289:PRO:HD3	1.83	0.59
10:X:52:VAL:HG22	10:X:53:LYS:N	2.17	0.59
10:Y:43:ARG:HG2	10:Y:43:ARG:O	2.02	0.59
3:A:141:ILE:CG2	3:A:323:ARG:HB3	2.33	0.59
3:A:149:TYR:O	3:A:314:ILE:HD11	2.02	0.59
3:A:422:ILE:HA	3:A:426:HIS:CE1	2.37	0.59
3:A:492:PRO:CD	3:A:510:VAL:HA	2.27	0.59
3:A:574:VAL:CG2	3:A:903:LEU:HD23	2.33	0.59
3:A:734:GLU:HB3	3:A:773:VAL:O	2.02	0.59
3:A:1036:GLU:HG3	6:E:479:LEU:HD23	1.85	0.59
4:B:7:VAL:HG13	6:E:521:THR:OG1	2.03	0.59
4:B:10:LYS:HD3	4:B:14:ARG:NE	2.18	0.59
4:B:32:MET:HG2	4:B:33:ALA:N	2.17	0.59
4:B:221:PRO:CD	4:B:281:VAL:HG22	2.33	0.59
4:B:285:PRO:O	4:B:1146:ARG:CD	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:439:GLU:H	4:B:1001:ARG:C	2.06	0.59
4:B:602:GLY:H	4:B:634:GLU:CG	2.10	0.59
4:B:724:TYR:HB2	4:B:741:VAL:CG2	2.28	0.59
4:B:1152:VAL:HG13	4:B:1170:LEU:HB2	1.84	0.59
4:B:1202:LEU:HD11	4:B:1214:GLN:HB2	1.84	0.59
4:B:1207:PHE:CB	4:B:1220:LEU:CD1	2.78	0.59
4:B:1213:PHE:HD1	4:B:1214:GLN:OE1	1.86	0.59
4:B:1250:GLY:HA2	4:B:1253:THR:HB	1.85	0.59
5:C:84:GLU:N	5:C:84:GLU:CD	2.59	0.59
5:C:106:THR:O	5:C:107:ILE:HD13	2.02	0.59
5:D:64:GLU:HG2	5:D:65:PHE:CE1	2.38	0.59
5:D:68:VAL:O	5:D:68:VAL:HG13	2.01	0.59
6:E:371:HIS:HD2	6:E:494:SER:CA	2.04	0.59
6:E:382:GLU:O	6:E:384:PHE:N	2.35	0.59
6:E:458:PRO:O	6:E:460:VAL:C	2.45	0.59
7:F:37:ASN:ND2	7:F:40:LYS:HZ3	2.01	0.59
9:S:132:LEU:HD13	9:S:136:LYS:HZ1	1.68	0.59
9:S:172:ALA:CA	9:S:258:VAL:HG22	2.33	0.59
9:T:2:ARG:HH11	9:T:5:GLN:HB3	1.67	0.59
9:T:95:ALA:CB	9:T:140:VAL:HG11	2.33	0.59
9:U:69:LYS:HG3	9:U:73:GLU:OE2	2.02	0.59
9:U:95:ALA:HB2	9:U:135:LEU:HD13	1.85	0.59
9:V:180:TYR:CE1	9:V:239:ILE:HD11	2.24	0.59
9:V:201:GLY:O	9:V:205:LEU:HB3	2.03	0.59
10:X:64:ILE:C	10:X:66:VAL:N	2.61	0.59
10:X:116:PRO:CA	10:X:119:SER:HB3	2.28	0.59
1:1:62:DT:H2"	1:1:63:DG:C8	2.37	0.59
3:A:239:TYR:HE1	3:A:243:ARG:HD3	1.66	0.59
3:A:486:ASP:CG	3:A:488:LEU:H	2.09	0.59
3:A:676:GLU:N	3:A:679:GLU:OE2	2.35	0.59
3:A:747:ALA:O	3:A:749:ARG:NH2	2.35	0.59
3:A:756:ILE:HD12	3:A:770:VAL:HG21	1.83	0.59
3:A:838:VAL:HG22	3:A:839:TYR:N	2.16	0.59
3:A:842:GLN:HG2	3:A:842:GLN:O	2.01	0.59
4:B:21:PHE:CE2	6:E:497:ILE:CD1	2.86	0.59
4:B:157:LEU:CD2	4:B:171:GLU:N	2.61	0.59
4:B:502:ASP:N	4:B:884:VAL:O	2.34	0.59
4:B:557:GLN:N	4:B:557:GLN:OE1	2.36	0.59
4:B:707:LEU:HB3	4:B:724:TYR:HA	1.85	0.59
4:B:1001:ARG:CG	4:B:1002:ALA:N	2.63	0.59
4:B:1014:ILE:HG22	4:B:1018:LEU:CD1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:231:ILE:O	6:E:235:ILE:HG23	2.03	0.59
6:E:372:GLN:CB	6:E:445:GLU:HB2	2.33	0.59
6:E:481:LEU:HG	6:E:482:GLU:N	2.18	0.59
8:G:103:LEU:HD22	8:G:154:ALA:HB1	1.84	0.59
8:G:159:VAL:HG13	8:G:191:LEU:HD23	1.83	0.59
8:G:173:TYR:O	8:G:174:MET:C	2.46	0.59
9:S:112:PHE:CB	9:S:293:PHE:CZ	2.73	0.59
9:S:290:ILE:O	9:S:291:LYS:C	2.45	0.59
9:T:201:GLY:O	9:T:205:LEU:CG	2.51	0.59
9:U:28:THR:HG22	9:U:29:GLN:HE21	1.68	0.59
9:U:98:HIS:CE1	9:U:203:GLN:CA	2.86	0.59
9:U:142:LEU:HD11	9:U:294:TRP:HB2	1.85	0.59
9:V:159:VAL:HA	9:V:278:MET:HB3	1.85	0.59
10:X:126:LEU:HB3	10:Y:126:LEU:CD2	2.20	0.59
1:1:45:DC:N4	2:2:81:DG:H1	1.94	0.59
3:A:30:LEU:CD2	3:A:400:ARG:HH11	2.15	0.59
3:A:31:ILE:O	3:A:34:GLN:OE1	2.21	0.59
3:A:44:GLU:O	3:A:46:LEU:HD23	2.03	0.59
3:A:278:ASN:O	3:A:279:LYS:C	2.44	0.59
3:A:494:ASP:HB2	3:A:921:GLU:HG3	1.85	0.59
3:A:656:LEU:HB2	3:A:671:ASP:OD1	2.03	0.59
3:A:824:GLN:CD	3:A:824:GLN:H	2.11	0.59
3:A:1055:ILE:CG1	6:E:387:PHE:CE1	2.85	0.59
4:B:281:VAL:CG1	4:B:282:VAL:N	2.61	0.59
4:B:794:GLN:CG	4:B:795:LEU:H	2.16	0.59
4:B:974:VAL:HG12	4:B:975:SER:O	2.02	0.59
4:B:1058:VAL:HG22	4:B:1059:THR:O	2.02	0.59
5:C:40:LEU:N	5:C:40:LEU:CD1	2.64	0.59
5:D:171:MET:CE	6:E:543:MET:HE1	2.33	0.59
6:E:480:SER:OG	6:E:482:GLU:OE1	2.14	0.59
6:E:541:VAL:HA	6:E:544:ALA:HB3	1.84	0.59
8:G:114:GLU:CD	8:G:115:ARG:HG3	2.27	0.59
9:S:163:TYR:O	9:S:276:VAL:HG22	2.02	0.59
9:S:175:HIS:HD2	9:S:177:LEU:HB2	1.64	0.59
9:S:226:LEU:CD2	9:U:227:ASP:CB	2.80	0.59
9:T:162:LEU:O	9:T:163:TYR:CG	2.56	0.59
9:T:193:GLN:NE2	9:T:239:ILE:O	2.36	0.59
9:T:288:PRO:CA	9:T:291:LYS:HE2	2.32	0.59
9:U:40:GLU:HG3	9:U:46:GLU:CD	2.24	0.59
9:U:45:LEU:HD22	9:U:62:ARG:HB2	1.82	0.59
9:U:135:LEU:O	9:U:138:GLY:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:185:TRP:HE1	9:U:209:LYS:HZ1	1.49	0.59
9:V:9:PHE:CZ	9:V:63:LEU:HD13	2.38	0.59
9:V:86:ALA:CB	9:V:287:ILE:HD13	2.12	0.59
9:V:197:LYS:N	9:V:200:TYR:HD2	2.00	0.59
9:V:223:VAL:HG21	9:V:228:ALA:HB3	1.85	0.59
10:X:109:GLU:OE2	10:X:113:LYS:HE2	2.02	0.59
10:X:158:ARG:HH11	10:X:215:PRO:HB2	1.68	0.59
1:1:12:DT:H2'	9:V:18:PHE:CE2	2.37	0.59
1:1:45:DC:C2	1:1:46:DA:O4'	2.56	0.59
1:1:60:DT:O2	2:2:67:DA:H2	1.85	0.59
2:2:97:DG:P	9:S:155:ARG:NE	2.76	0.59
3:A:47:ILE:O	3:A:50:LEU:HG	2.02	0.59
3:A:135:ARG:HD2	3:A:384:SER:OG	2.03	0.59
3:A:161:TYR:CD1	3:A:307:LEU:CD1	2.85	0.59
3:A:232:GLU:CA	3:A:236:MET:CG	2.66	0.59
3:A:433:ILE:HB	3:A:539:THR:HG21	1.84	0.59
3:A:520:THR:N	3:A:523:GLN:NE2	2.51	0.59
3:A:620:LYS:CG	3:A:623:ASP:HB3	2.32	0.59
3:A:874:LEU:HB2	3:A:876:ASP:OD1	2.03	0.59
3:A:936:LEU:O	3:A:937:GLN:C	2.45	0.59
4:B:3:PHE:CD1	4:B:4:ARG:N	2.71	0.59
4:B:38:ASP:O	4:B:41:PHE:HB2	2.02	0.59
4:B:201:VAL:HG22	4:B:320:ALA:HB3	1.85	0.59
4:B:244:VAL:HG13	4:B:282:VAL:N	2.17	0.59
4:B:443:LYS:HD3	4:B:997:LEU:HB3	1.85	0.59
4:B:603:PHE:N	4:B:632:ILE:H	2.00	0.59
4:B:1046:ALA:O	4:B:1047:ILE:CG1	2.51	0.59
4:B:1155:ASP:C	4:B:1164:PRO:HA	2.28	0.59
5:C:48:LEU:HD12	5:C:48:LEU:O	2.03	0.59
5:D:45:LEU:HD13	5:D:171:MET:HE1	1.85	0.59
6:E:223:LYS:O	6:E:224:LEU:C	2.45	0.59
9:S:207:GLN:HA	9:S:217:LEU:CD1	2.32	0.59
9:T:69:LYS:HG3	9:T:73:GLU:OE2	2.02	0.59
9:T:99:SER:HB2	9:T:246:ALA:HB1	1.85	0.59
9:V:164:ASP:CA	9:V:274:ARG:HB3	2.32	0.59
9:V:175:HIS:C	9:V:177:LEU:N	2.58	0.59
10:X:49:LYS:HB3	10:X:99:GLU:CB	2.33	0.59
3:A:44:GLU:HG2	3:A:45:GLY:CA	2.33	0.58
3:A:423:HIS:ND1	3:A:424:PRO:CD	2.65	0.58
3:A:584:ARG:HD2	3:A:591:VAL:CG1	2.28	0.58
3:A:643:GLN:C	3:A:719:ILE:HD11	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:815:VAL:CG2	3:A:840:VAL:HA	2.33	0.58
4:B:311:LEU:C	4:B:311:LEU:HD12	2.28	0.58
4:B:354:ASP:HA	4:B:356:THR:HG22	1.85	0.58
4:B:504:VAL:HG21	4:B:510:LEU:CG	2.33	0.58
4:B:538:GLU:O	4:B:538:GLU:HG2	2.02	0.58
4:B:587:VAL:HA	4:B:794:GLN:NE2	2.13	0.58
5:C:44:LEU:HD23	5:C:45:LEU:HG	1.83	0.58
5:C:44:LEU:HD23	5:C:45:LEU:CD2	2.33	0.58
5:D:10:GLU:CD	5:D:10:GLU:C	2.70	0.58
5:D:44:LEU:CD1	5:D:210:LEU:CA	2.80	0.58
5:D:98:ARG:HG2	5:D:139:GLU:HG3	1.83	0.58
6:E:111:PRO:CB	6:E:194:LEU:CD2	2.81	0.58
6:E:461:CYS:H	6:E:462:PRO:HD3	1.66	0.58
8:G:83:ARG:O	8:G:87:GLN:HB2	2.03	0.58
8:G:219:THR:O	8:G:220:ARG:C	2.43	0.58
8:G:255:ARG:O	8:G:256:LYS:C	2.45	0.58
9:S:6:LEU:HD21	9:S:68:ARG:HG2	1.84	0.58
9:S:45:LEU:HB2	9:S:58:LEU:CD2	2.33	0.58
9:S:182:ARG:O	9:S:183:VAL:HG23	2.03	0.58
9:S:185:TRP:CD1	9:S:213:LEU:HB2	2.38	0.58
9:S:188:LEU:HD13	9:S:210:PHE:CE2	2.38	0.58
9:T:194:VAL:CG1	9:T:222:GLU:HG3	2.32	0.58
9:T:241:LEU:CD2	9:T:272:LEU:HD23	2.25	0.58
9:T:288:PRO:N	9:T:291:LYS:HE2	2.18	0.58
9:U:62:ARG:HD2	9:V:87:GLY:CA	2.31	0.58
9:V:174:ASN:HD22	9:V:255:THR:HG21	1.68	0.58
10:X:123:LEU:HA	10:Y:126:LEU:CD2	2.31	0.58
3:A:140:GLN:HE21	3:A:326:ARG:N	2.00	0.58
3:A:166:ILE:HG13	3:A:172:TRP:CG	2.37	0.58
3:A:180:ASN:O	3:A:181:ASP:C	2.46	0.58
3:A:342:ARG:O	3:A:346:ILE:HD12	2.02	0.58
3:A:423:HIS:CD2	3:A:425:SER:HG	2.21	0.58
3:A:570:GLU:CD	3:A:570:GLU:C	2.70	0.58
3:A:736:ILE:C	3:A:773:VAL:HG23	2.28	0.58
3:A:814:VAL:C	3:A:815:VAL:HG13	2.29	0.58
3:A:958:MET:HG2	3:A:959:VAL:H	1.67	0.58
3:A:1015:GLN:NE2	6:E:357:SER:OG	2.36	0.58
3:A:1068:GLU:O	3:A:1069:SER:C	2.42	0.58
4:B:157:LEU:HB3	4:B:174:ILE:HD13	1.82	0.58
4:B:299:TYR:CZ	4:B:1139:LYS:CD	2.85	0.58
4:B:896:ARG:HD3	4:B:986:ASP:CB	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:32:GLN:HG2	5:D:220:LEU:HD11	1.85	0.58
5:C:56:VAL:N	5:C:164:LEU:O	2.36	0.58
5:C:105:THR:N	5:C:130:ILE:HG22	2.18	0.58
5:D:120:VAL:O	5:D:120:VAL:HG23	2.03	0.58
6:E:20:GLU:HA	6:E:23:ARG:CD	2.24	0.58
6:E:56:GLY:O	6:E:57:LEU:C	2.40	0.58
6:E:461:CYS:O	6:E:462:PRO:C	2.43	0.58
6:E:623:LEU:CD1	6:E:624:ALA:H	2.15	0.58
8:G:288:THR:HG1	8:G:289:PRO:HD2	1.64	0.58
9:T:69:LYS:HG3	9:T:73:GLU:CD	2.29	0.58
9:T:274:ARG:CZ	9:T:276:VAL:CG1	2.81	0.58
9:V:188:LEU:CD1	9:V:213:LEU:HG	2.28	0.58
3:A:297:ILE:O	3:A:300:ALA:HB3	2.03	0.58
3:A:325:VAL:HG22	3:A:326:ARG:N	2.18	0.58
3:A:463:PHE:CB	3:A:481:THR:HG23	2.31	0.58
3:A:608:VAL:CA	3:A:615:PRO:HB2	2.33	0.58
3:A:817:VAL:HG23	3:A:838:VAL:HB	1.84	0.58
3:A:1043:ASP:OD2	3:A:1069:SER:N	2.35	0.58
3:A:1050:GLU:O	3:A:1051:ALA:C	2.46	0.58
3:A:1084:ILE:HD12	3:A:1085:ALA:N	2.18	0.58
4:B:163:PHE:O	4:B:164:ARG:C	2.44	0.58
4:B:412:ILE:HG12	4:B:424:LEU:CB	2.26	0.58
4:B:541:THR:HB	4:B:760:GLN:NE2	2.17	0.58
5:C:42:ARG:NE	5:D:35:THR:HG23	2.12	0.58
5:D:218:VAL:HA	5:D:221:PHE:CD2	2.38	0.58
6:E:354:VAL:HG22	6:E:355:ASP:H	1.67	0.58
6:E:443:ALA:C	6:E:444:PHE:CD1	2.80	0.58
8:G:378:HIS:CE1	10:X:61:GLY:HA2	2.39	0.58
9:S:4:GLU:CG	9:S:27:VAL:HG22	2.33	0.58
9:S:10:LEU:HG	9:S:60:GLY:HA3	1.84	0.58
9:S:142:LEU:CD2	9:S:278:MET:SD	2.91	0.58
9:U:40:GLU:HA	9:U:46:GLU:CG	2.31	0.58
9:U:69:LYS:HG3	9:U:73:GLU:CD	2.28	0.58
9:U:151:LEU:HD12	9:U:277:VAL:HG22	1.85	0.58
9:U:206:VAL:CG2	9:U:243:PRO:CG	2.53	0.58
9:U:288:PRO:O	9:U:292:HIS:HB3	2.03	0.58
9:U:292:HIS:O	9:U:296:LEU:CB	2.51	0.58
9:V:148:ASN:CB	9:V:212:ARG:NH1	2.54	0.58
9:V:159:VAL:HG12	9:V:160:GLU:O	2.02	0.58
9:V:206:VAL:C	9:V:208:GLU:O	2.45	0.58
3:A:119:LEU:HD23	3:A:378:PHE:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:215:HIS:CE1	3:A:219:PHE:CZ	2.88	0.58
3:A:286:PRO:O	3:A:288:THR:N	2.37	0.58
3:A:520:THR:O	3:A:523:GLN:OE1	2.21	0.58
3:A:524:VAL:HG23	3:A:525:ASP:HA	1.83	0.58
3:A:603:ALA:HA	3:A:655:PRO:HG3	1.85	0.58
3:A:894:ASN:O	3:A:895:VAL:C	2.47	0.58
3:A:1044:ASP:CG	3:A:1047:GLY:N	2.59	0.58
4:B:269:ALA:O	4:B:270:LYS:C	2.47	0.58
4:B:372:HIS:ND1	4:B:372:HIS:O	2.36	0.58
4:B:481:TRP:CE2	4:B:971:PRO:CB	2.82	0.58
4:B:497:VAL:H	4:B:511:ALA:CA	2.15	0.58
4:B:504:VAL:HG12	4:B:884:VAL:CG2	2.33	0.58
4:B:532:LYS:HZ3	4:B:844:ILE:HG12	1.67	0.58
4:B:707:LEU:CB	4:B:724:TYR:HA	2.33	0.58
5:C:64:GLU:CD	5:C:64:GLU:O	2.46	0.58
5:C:91:SER:C	5:C:93:GLN:N	2.58	0.58
5:D:106:THR:O	5:D:107:ILE:HD13	2.02	0.58
6:E:125:ILE:HD13	6:E:128:LEU:HD21	1.84	0.58
6:E:152:ASN:O	6:E:153:ALA:C	2.46	0.58
6:E:198:ALA:HB2	6:E:242:GLU:CD	2.28	0.58
6:E:603:SER:HB3	6:E:605:TYR:CZ	2.38	0.58
7:F:33:VAL:O	7:F:34:GLN:C	2.38	0.58
8:G:103:LEU:O	8:G:107:ILE:HG12	2.04	0.58
8:G:311:ASP:HA	8:G:314:SER:CB	2.33	0.58
9:S:123:VAL:CB	9:U:223:VAL:HB	2.33	0.58
9:S:128:SER:HA	9:S:131:ALA:HB3	1.84	0.58
9:S:193:GLN:NE2	9:S:240:ALA:HA	2.17	0.58
9:S:279:VAL:N	9:S:294:TRP:HZ2	2.00	0.58
9:T:45:LEU:H	9:T:63:LEU:HD23	1.69	0.58
9:T:293:PHE:CD2	9:T:297:VAL:CG2	2.86	0.58
9:U:28:THR:HG22	9:U:29:GLN:NE2	2.18	0.58
9:U:206:VAL:HG13	9:U:210:PHE:CE2	2.39	0.58
9:V:195:VAL:CB	9:V:203:GLN:OE1	2.45	0.58
10:X:56:ARG:HG2	10:X:66:VAL:HB	1.83	0.58
1:1:25:DT:H2"	1:1:26:DA:H8	1.69	0.58
3:A:45:GLY:O	3:A:47:ILE:N	2.36	0.58
3:A:56:ILE:HD12	3:A:67:PHE:HE1	1.68	0.58
3:A:607:ARG:C	3:A:611:SER:HG	2.11	0.58
3:A:1089:VAL:HG12	3:A:1094:ASP:CB	2.33	0.58
4:B:21:PHE:CE1	6:E:497:ILE:HD11	2.38	0.58
4:B:133:ASN:HB3	4:B:136:GLN:OE1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:360:PRO:N	4:B:386:ILE:CD1	2.65	0.58
4:B:631:TRP:CZ3	4:B:782:VAL:HG11	2.38	0.58
5:C:35:THR:HA	5:C:38:ASN:HD21	1.69	0.58
5:C:140:PHE:HD2	5:C:141:ARG:O	1.85	0.58
5:D:24:ILE:CD1	5:D:195:LEU:HA	2.33	0.58
5:D:105:THR:N	5:D:130:ILE:HG22	2.18	0.58
6:E:145:TYR:CZ	6:E:167:TRP:CG	2.91	0.58
6:E:449:VAL:HG12	6:E:450:GLU:N	2.19	0.58
9:S:70:ILE:CD1	9:T:70:ILE:HA	2.34	0.58
9:T:190:ARG:HG2	9:T:190:ARG:O	2.04	0.58
9:U:3:LEU:HA	9:U:6:LEU:HB2	1.85	0.58
9:U:92:LEU:HD22	9:U:289:PRO:HG2	1.84	0.58
10:Y:194:LEU:HD11	10:Y:205:ILE:HD11	1.85	0.58
3:A:36:SER:O	3:A:37:SER:C	2.43	0.58
3:A:37:SER:O	3:A:40:TRP:HB3	2.02	0.58
3:A:89:SER:C	3:A:131:ASN:HA	2.28	0.58
3:A:597:ASP:C	3:A:615:PRO:HD3	2.27	0.58
3:A:644:ARG:HG3	3:A:648:ASP:HA	1.86	0.58
3:A:814:VAL:HG22	3:A:815:VAL:N	2.16	0.58
3:A:817:VAL:HG23	3:A:837:ARG:O	2.04	0.58
3:A:1084:ILE:HD12	3:A:1085:ALA:H	1.69	0.58
4:B:113:PHE:O	4:B:116:THR:N	2.36	0.58
4:B:157:LEU:HD22	4:B:170:THR:HB	1.84	0.58
4:B:249:ILE:O	4:B:250:HIS:C	2.44	0.58
4:B:521:GLY:CA	4:B:864:THR:HA	2.33	0.58
4:B:694:VAL:HG21	4:B:700:VAL:HG23	1.85	0.58
4:B:760:GLN:HE21	4:B:764:ARG:HE	1.52	0.58
4:B:922:ILE:HG21	4:B:928:LEU:CD1	2.32	0.58
4:B:1249:THR:CB	7:F:33:VAL:HG11	2.33	0.58
5:C:50:GLY:O	5:C:144:ARG:HA	2.02	0.58
5:D:48:LEU:CD2	5:D:171:MET:CG	2.69	0.58
5:D:56:VAL:O	5:D:57:ARG:NH2	2.37	0.58
6:E:535:PHE:HB3	6:E:540:ASP:CG	2.29	0.58
6:E:560:PHE:O	6:E:606:ILE:HD11	2.04	0.58
6:E:561:ASP:CG	6:E:604:GLN:HG2	2.28	0.58
6:E:608:THR:HG22	6:E:612:ARG:NE	2.17	0.58
7:F:13:GLN:HG2	7:F:14:ILE:N	2.12	0.58
8:G:298:LEU:HD12	8:G:299:GLY:N	2.19	0.58
9:T:27:VAL:HG11	9:T:31:THR:HG21	1.84	0.58
9:T:244:SER:HA	9:T:247:LEU:HD23	1.84	0.58
9:V:139:LEU:HG	9:V:140:VAL:HG23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:64:ILE:O	10:Y:66:VAL:HG23	2.04	0.58
3:A:288:THR:CG2	3:A:290:ARG:HH22	2.14	0.58
3:A:373:ALA:O	3:A:376:GLU:CB	2.49	0.58
3:A:567:LEU:HD12	3:A:568:LYS:HB2	1.86	0.58
3:A:749:ARG:CZ	3:A:750:GLN:H	2.17	0.58
3:A:826:ASP:HB3	3:A:828:LEU:HB3	1.86	0.58
3:A:886:PRO:HB3	4:B:50:SER:OG	2.03	0.58
3:A:940:ARG:NE	3:A:949:TYR:CG	2.72	0.58
4:B:6:ARG:HH22	4:B:12:GLN:HE22	1.47	0.58
4:B:17:ILE:O	4:B:18:SER:C	2.38	0.58
4:B:141:VAL:HG23	4:B:142:GLY:H	1.68	0.58
4:B:246:GLU:OE2	4:B:281:VAL:HB	2.03	0.58
4:B:286:LEU:O	4:B:286:LEU:HG	2.04	0.58
4:B:358:LYS:HE3	4:B:390:ARG:C	2.29	0.58
4:B:369:ARG:HH22	4:B:438:THR:HG21	1.69	0.58
4:B:526:PRO:HB3	4:B:536:GLU:O	2.03	0.58
4:B:570:GLN:HA	4:B:572:PHE:CE2	2.38	0.58
4:B:1129:TYR:O	4:B:1130:GLN:NE2	2.37	0.58
4:B:1134:ILE:CG2	4:B:1135:ASP:N	2.50	0.58
5:C:51:THR:HG23	5:C:144:ARG:NH1	2.14	0.58
5:C:77:GLU:HA	5:C:80:MET:HB2	1.85	0.58
5:D:137:GLU:OE2	5:D:139:GLU:CG	2.51	0.58
5:D:196:LEU:HD12	5:D:196:LEU:O	2.04	0.58
6:E:36:VAL:O	6:E:37:GLY:C	2.43	0.58
6:E:142:PHE:CD1	6:E:142:PHE:O	2.56	0.58
8:G:106:LYS:CD	8:G:151:GLY:HA2	2.33	0.58
8:G:290:ILE:HG23	8:G:296:SER:HA	1.84	0.58
8:G:325:VAL:HG21	8:G:385:LEU:HD23	1.85	0.58
9:S:196:PHE:HB3	9:S:203:GLN:CG	2.32	0.58
9:T:225:THR:HG23	9:T:227:ASP:H	1.67	0.58
9:U:278:MET:HG2	9:U:297:VAL:HG11	1.75	0.58
10:X:56:ARG:HD2	10:X:57:VAL:N	2.19	0.58
10:Y:52:VAL:HG22	10:Y:53:LYS:N	2.17	0.58
10:Y:127:SER:O	10:Y:131:LEU:N	2.28	0.58
10:Y:169:THR:OG1	10:Y:209:LYS:HD3	2.02	0.58
3:A:228:GLN:HG3	3:A:232:GLU:CD	2.28	0.58
3:A:350:ARG:O	3:A:353:VAL:HG12	2.03	0.58
3:A:434:GLU:HB3	3:A:446:SER:OG	2.03	0.58
3:A:620:LYS:HB2	3:A:633:GLN:HG3	1.86	0.58
3:A:781:GLN:HB3	3:A:785:GLU:HB3	1.85	0.58
3:A:1070:PHE:CD1	3:A:1071:LYS:N	2.72	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1085:ALA:O	3:A:1087:HIS:CG	2.56	0.58
4:B:6:ARG:NH2	4:B:12:GLN:NE2	2.51	0.58
4:B:20:ALA:O	4:B:24:TYR:HD1	1.86	0.58
4:B:378:PHE:HB3	4:B:413:VAL:HG21	1.86	0.58
4:B:519:HIS:N	4:B:865:ILE:HB	2.19	0.58
4:B:754:SER:O	4:B:755:THR:OG1	2.21	0.58
4:B:922:ILE:HD11	4:B:940:ILE:HD12	1.86	0.58
5:C:38:ASN:HA	5:C:41:ARG:HB2	1.86	0.58
5:C:41:ARG:HH12	5:C:177:ASN:CA	2.17	0.58
5:D:55:ALA:CB	5:D:141:ARG:HG2	2.34	0.58
5:D:57:ARG:CD	5:D:161:LEU:HB3	2.34	0.58
6:E:251:VAL:HG13	6:E:276:TYR:HE2	1.69	0.58
6:E:290:GLN:O	6:E:291:GLU:C	2.47	0.58
6:E:371:HIS:CD2	6:E:494:SER:HA	2.37	0.58
6:E:608:THR:HB	6:E:612:ARG:NE	2.18	0.58
7:F:36:ALA:O	7:F:37:ASN:C	2.46	0.58
7:F:38:ARG:O	7:F:39:ALA:C	2.46	0.58
8:G:169:ILE:HG13	8:G:214:ILE:HG21	1.86	0.58
8:G:290:ILE:H	8:G:296:SER:CB	2.17	0.58
9:T:128:SER:O	9:T:145:VAL:HG22	2.03	0.58
9:U:155:ARG:O	9:U:157:MET:CG	2.49	0.58
9:U:186:SER:HA	9:U:189:VAL:CG2	2.33	0.58
9:V:195:VAL:CG1	9:V:203:GLN:NE2	2.66	0.58
10:Y:218:LEU:HD12	10:Y:218:LEU:C	2.28	0.58
3:A:33:ILE:O	3:A:34:GLN:C	2.45	0.58
3:A:169:ARG:NH2	3:A:334:ASN:HB3	2.19	0.58
3:A:302:ASP:O	3:A:303:TYR:C	2.46	0.58
3:A:1016:ARG:NH1	6:E:353:ARG:HH12	2.01	0.58
3:A:1027:ALA:CB	4:B:318:ILE:CD1	2.54	0.58
3:A:1087:HIS:CE1	6:E:11:TYR:CE1	2.92	0.58
4:B:72:GLU:CA	4:B:418:VAL:HB	2.17	0.58
4:B:169:VAL:HG23	4:B:170:THR:N	2.18	0.58
4:B:189:ARG:NH1	4:B:332:MET:C	2.61	0.58
4:B:412:ILE:HG12	4:B:424:LEU:HD13	1.86	0.58
4:B:710:PRO:HG3	4:B:721:GLU:C	2.28	0.58
4:B:1205:ASP:OD1	4:B:1213:PHE:CE1	2.57	0.58
4:B:1218:ARG:HD3	6:E:122:PRO:HD3	1.72	0.58
5:C:61:VAL:HG12	5:C:63:HIS:HB3	1.86	0.58
5:C:217:LEU:O	5:C:218:VAL:C	2.46	0.58
5:D:49:GLU:O	5:D:144:ARG:HG2	2.04	0.58
5:D:140:PHE:HD2	5:D:141:ARG:O	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:38:GLU:OE2	6:E:38:GLU:HA	1.98	0.58
6:E:71:CYS:CB	6:E:76:TYR:CD2	2.87	0.58
8:G:206:PHE:CA	8:G:210:ALA:H	2.16	0.58
9:T:142:LEU:CD1	9:T:293:PHE:CD2	2.87	0.58
9:T:155:ARG:C	9:T:294:TRP:CD1	2.82	0.58
9:T:167:ILE:CG2	9:T:241:LEU:CD1	2.75	0.58
9:U:206:VAL:O	9:U:210:PHE:CG	2.57	0.58
9:V:160:GLU:CD	9:V:297:VAL:HB	2.27	0.58
9:V:166:PRO:CB	9:V:244:SER:HB2	2.30	0.58
10:Y:46:PHE:HE2	10:Y:48:LEU:HD13	1.69	0.58
1:1:52:DA:H2"	1:1:53:DC:C5	2.38	0.58
1:1:105:DG:N1	3:A:246:GLU:CB	2.63	0.58
2:2:51:DT:H73	10:X:187:ARG:HD3	1.85	0.58
2:2:67:DA:H2'	2:2:68:DT:C6	2.39	0.58
3:A:30:LEU:HD22	3:A:400:ARG:NH1	2.19	0.58
3:A:268:ASP:CG	3:A:270:GLY:N	2.62	0.58
3:A:489:ARG:CA	3:A:512:TYR:HA	2.28	0.58
3:A:538:ALA:HB2	3:A:561:ARG:HG2	1.83	0.58
3:A:744:GLY:CA	3:A:747:ALA:H	2.17	0.58
4:B:9:ASP:OD1	4:B:9:ASP:C	2.44	0.58
4:B:74:ARG:HB3	4:B:74:ARG:NH1	2.19	0.58
4:B:776:TYR:CD2	4:B:780:GLU:HB2	2.35	0.58
4:B:914:PRO:HD3	4:B:962:TYR:OH	2.04	0.58
4:B:1009:GLN:HA	4:B:1013:ARG:HB3	1.86	0.58
5:C:24:ILE:CG2	5:C:25:LEU:N	2.66	0.58
6:E:247:THR:O	6:E:248:VAL:HG23	2.04	0.58
6:E:520:LEU:HA	6:E:552:LEU:CD2	2.34	0.58
6:E:591:ARG:HA	6:E:605:TYR:O	2.04	0.58
7:F:21:LEU:HD13	7:F:66:SER:HA	1.85	0.58
8:G:103:LEU:HD23	8:G:154:ALA:HB1	1.85	0.58
8:G:191:LEU:O	8:G:192:ILE:C	2.46	0.58
8:G:348:MET:O	8:G:349:LYS:HG3	2.04	0.58
9:S:178:ALA:O	9:S:259:ARG:HG3	2.04	0.58
9:S:185:TRP:NE1	9:S:213:LEU:CD1	2.67	0.58
9:T:173:ALA:HB3	9:T:234:ARG:NH1	2.19	0.58
9:U:167:ILE:CD1	9:U:262:ALA:CA	2.45	0.58
9:U:288:PRO:O	9:U:292:HIS:HB2	2.03	0.58
9:V:158:VAL:H	9:V:280:THR:N	2.01	0.58
9:V:159:VAL:HA	9:V:278:MET:HG3	1.86	0.58
9:V:203:GLN:CD	9:V:206:VAL:HG12	2.26	0.58
9:V:274:ARG:O	9:V:274:ARG:HG3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:292:HIS:NE2	9:V:296:LEU:CD1	2.41	0.58
10:Y:64:ILE:C	10:Y:66:VAL:N	2.61	0.58
10:Y:110:GLN:HA	10:Y:114:GLU:HG2	1.85	0.58
3:A:34:GLN:O	3:A:35:ARG:C	2.46	0.57
3:A:93:VAL:O	3:A:94:GLN:C	2.45	0.57
3:A:147:VAL:C	3:A:148:TYR:CG	2.79	0.57
3:A:158:ARG:HH12	3:A:179:ARG:CB	2.15	0.57
3:A:238:LEU:HD22	3:A:256:LEU:HD23	1.85	0.57
3:A:239:TYR:HA	3:A:242:LEU:O	2.04	0.57
3:A:326:ARG:HB2	3:A:330:GLU:HG3	1.85	0.57
3:A:618:SER:O	3:A:621:SER:OG	2.21	0.57
3:A:770:VAL:O	3:A:803:SER:HB3	2.03	0.57
3:A:905:TRP:CD1	3:A:909:THR:CG2	2.86	0.57
4:B:3:PHE:CE1	4:B:4:ARG:C	2.82	0.57
4:B:208:ILE:HG22	4:B:209:ILE:N	2.19	0.57
4:B:294:VAL:HG12	4:B:1146:ARG:HH21	1.69	0.57
4:B:319:ALA:HB1	4:B:1140:HIS:HA	1.86	0.57
4:B:384:ILE:CA	4:B:405:THR:O	2.52	0.57
4:B:980:LEU:HD12	4:B:982:ILE:O	2.04	0.57
4:B:1208:ILE:N	4:B:1230:ASP:OD2	2.35	0.57
5:C:51:THR:N	5:C:144:ARG:HA	2.19	0.57
5:C:51:THR:CA	5:C:144:ARG:HA	2.33	0.57
5:C:92:SER:O	5:C:93:GLN:NE2	2.37	0.57
5:C:120:VAL:C	5:C:122:ASP:N	2.57	0.57
5:C:135:LYS:HG2	5:C:136:LEU:H	1.69	0.57
6:E:39:VAL:HG23	6:E:55:ASP:CG	2.29	0.57
6:E:498:LEU:HA	6:E:505:PRO:HA	1.85	0.57
6:E:507:ILE:O	6:E:508:THR:CG2	2.52	0.57
8:G:352:GLU:CD	8:G:352:GLU:H	2.12	0.57
8:G:355:GLY:HA2	8:G:361:THR:CG2	2.34	0.57
9:S:1:MET:O	9:S:6:LEU:HB2	2.04	0.57
9:S:18:PHE:C	9:S:29:GLN:HE22	2.12	0.57
9:S:281:THR:CB	9:S:284:ARG:NH1	2.62	0.57
9:T:70:ILE:O	9:T:71:CYS:C	2.46	0.57
9:T:163:TYR:HB3	9:T:245:SER:OG	2.03	0.57
9:T:193:GLN:CD	9:T:239:ILE:HB	2.29	0.57
9:T:196:PHE:CE2	9:T:197:LYS:HG2	2.39	0.57
9:U:49:HIS:HB3	9:U:52:ASN:HD22	1.69	0.57
9:V:207:GLN:O	9:V:210:PHE:HB2	2.03	0.57
10:Y:177:GLN:OE1	10:Y:190:VAL:CG2	2.52	0.57
3:A:147:VAL:HG21	3:A:165:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:347:ILE:O	3:A:351:MET:N	2.36	0.57
3:A:735:GLU:HB2	3:A:736:ILE:O	2.04	0.57
3:A:819:LEU:C	3:A:820:PHE:CD1	2.81	0.57
3:A:913:ARG:NH2	3:A:915:LYS:CD	2.68	0.57
3:A:1037:LEU:C	3:A:1038:LEU:HD22	2.29	0.57
4:B:239:LEU:O	4:B:240:LEU:HG	2.05	0.57
4:B:263:PRO:HB2	4:B:301:TRP:CZ2	2.39	0.57
4:B:266:ASP:OD1	4:B:267:ASP:N	2.37	0.57
4:B:441:ALA:O	4:B:999:PHE:CD2	2.58	0.57
4:B:445:VAL:HG12	4:B:994:LEU:CB	2.25	0.57
4:B:555:SER:OG	4:B:559:ARG:O	2.19	0.57
4:B:563:LEU:CA	4:B:573:ASN:HA	2.32	0.57
4:B:1019:GLU:CD	4:B:1198:THR:H	2.12	0.57
4:B:1032:ARG:CG	4:B:1078:PRO:HG2	2.30	0.57
4:B:1049:ILE:HG21	4:B:1063:LEU:CA	2.33	0.57
4:B:1158:GLY:C	4:B:1160:THR:H	2.12	0.57
4:B:1207:PHE:O	4:B:1210:ALA:HB3	2.05	0.57
5:C:228:SER:C	5:D:8:CYS:HB2	2.28	0.57
5:D:56:VAL:O	5:D:162:ASP:OD2	2.22	0.57
5:D:83:LYS:N	5:D:84:GLU:OE2	2.37	0.57
5:D:203:SER:OG	5:D:204:ILE:N	2.35	0.57
5:D:213:ALA:HA	5:D:216:ILE:HB	1.85	0.57
6:E:61:ARG:CZ	6:E:89:CYS:SG	2.92	0.57
6:E:71:CYS:HA	6:E:91:VAL:CG1	2.31	0.57
6:E:227:ARG:O	6:E:228:LEU:C	2.44	0.57
6:E:342:GLN:HA	6:E:347:GLN:OE1	2.03	0.57
6:E:578:THR:HG22	6:E:584:ARG:HB3	1.83	0.57
8:G:97:ALA:HB2	8:G:205:LYS:HD3	1.85	0.57
8:G:118:GLU:C	8:G:120:LEU:H	2.11	0.57
9:S:135:LEU:HB3	9:S:150:PHE:CB	2.25	0.57
9:S:157:MET:HG2	9:U:20:LYS:NZ	2.19	0.57
9:T:30:SER:HB3	9:T:33:SER:CB	2.34	0.57
9:T:32:ILE:HA	9:T:35:GLN:HB2	1.85	0.57
9:T:45:LEU:HD21	9:T:58:LEU:O	2.03	0.57
9:T:156:ASP:HA	9:T:294:TRP:HB2	1.87	0.57
9:T:167:ILE:HD11	9:T:202:MET:HE2	1.86	0.57
9:T:169:LEU:HB3	9:T:259:ARG:HB2	1.84	0.57
9:T:286:GLN:O	9:T:287:ILE:HG13	2.04	0.57
9:U:16:GLY:O	9:U:18:PHE:CD2	2.57	0.57
9:U:31:THR:HA	9:U:34:ARG:NE	2.18	0.57
9:U:160:GLU:HB3	9:U:298:ARG:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:194:VAL:HG12	9:U:239:ILE:O	2.04	0.57
10:X:78:LEU:HD13	10:X:90:TYR:HE2	1.68	0.57
10:X:110:GLN:HA	10:X:114:GLU:HG2	1.85	0.57
10:X:131:LEU:HD21	10:Y:129:ARG:HH22	1.68	0.57
10:Y:56:ARG:HD2	10:Y:57:VAL:N	2.19	0.57
2:2:65:DA:H2"	2:2:66:DA:C5	2.39	0.57
3:A:149:TYR:O	3:A:149:TYR:CD2	2.57	0.57
3:A:162:SER:HB3	3:A:175:PHE:O	2.05	0.57
3:A:199:LEU:HD22	3:A:227:GLY:C	2.29	0.57
3:A:400:ARG:HH21	3:A:447:LEU:HB3	1.69	0.57
3:A:693:TRP:HA	4:B:45:THR:OG1	2.04	0.57
3:A:749:ARG:HH21	3:A:750:GLN:CD	2.12	0.57
3:A:757:ILE:HB	3:A:769:LEU:O	2.04	0.57
3:A:787:LEU:O	3:A:791:ILE:N	2.37	0.57
4:B:327:GLY:O	4:B:1011:LEU:HD11	2.03	0.57
4:B:519:HIS:HB3	4:B:806:GLU:CB	2.34	0.57
4:B:524:ARG:NH1	4:B:818:LEU:CD2	2.22	0.57
4:B:627:GLY:C	4:B:745:ALA:HA	2.29	0.57
4:B:919:GLY:HA2	4:B:940:ILE:O	2.02	0.57
4:B:1126:GLN:N	4:B:1136:ILE:HD11	2.10	0.57
4:B:1244:LEU:HD23	4:B:1244:LEU:H	1.70	0.57
5:C:141:ARG:NH1	5:C:155:ARG:HB3	2.16	0.57
5:D:5:GLN:NE2	5:D:27:PRO:HD3	2.18	0.57
5:D:92:SER:O	5:D:93:GLN:NE2	2.37	0.57
6:E:286:LEU:HD13	6:E:306:LEU:HD22	1.87	0.57
6:E:332:LYS:HE3	8:G:297:ARG:NE	2.19	0.57
6:E:438:ARG:NH2	6:E:500:PRO:HB3	2.19	0.57
8:G:214:ILE:O	8:G:218:ILE:HG23	2.03	0.57
9:S:178:ALA:CA	9:S:259:ARG:CG	2.82	0.57
9:S:212:ARG:CB	9:S:267:PRO:HD3	2.10	0.57
9:T:152:THR:H	9:T:158:VAL:HA	1.70	0.57
9:U:70:ILE:O	9:U:71:CYS:C	2.46	0.57
10:X:26:GLU:N	10:X:101:LEU:O	2.36	0.57
3:A:152:GLU:OE1	3:A:162:SER:N	2.38	0.57
3:A:274:ARG:NH2	3:A:288:THR:N	2.49	0.57
3:A:784:GLU:HA	8:G:343:LEU:CD1	2.32	0.57
4:B:244:VAL:CG1	4:B:281:VAL:O	2.52	0.57
4:B:535:ARG:HB2	4:B:840:LEU:H	1.69	0.57
4:B:725:ILE:HA	4:B:738:SER:HB2	1.86	0.57
5:C:35:THR:O	5:C:39:ALA:HB2	2.04	0.57
5:C:40:LEU:H	5:C:40:LEU:CD1	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:55:ALA:HB3	5:C:141:ARG:H	1.69	0.57
5:C:57:ARG:CD	5:C:162:ASP:CG	2.77	0.57
6:E:9:PHE:CE2	6:E:12:VAL:HG13	2.40	0.57
6:E:434:PRO:CB	6:E:436:LEU:CD2	2.81	0.57
7:F:58:VAL:CG1	7:F:59:LEU:N	2.58	0.57
7:F:61:ALA:HA	7:F:64:GLU:OE2	2.05	0.57
8:G:107:ILE:O	8:G:108:ALA:C	2.47	0.57
8:G:333:GLU:HA	8:G:337:LEU:HD21	1.86	0.57
9:S:147:ASN:HB2	9:S:277:VAL:HG21	1.87	0.57
9:S:180:TYR:HB3	9:S:187:GLU:OE2	2.03	0.57
9:U:36:ILE:HG23	9:U:40:GLU:OE2	2.03	0.57
9:U:45:LEU:CD1	9:U:62:ARG:CA	2.65	0.57
9:U:131:ALA:O	9:U:135:LEU:N	2.37	0.57
9:U:142:LEU:CD2	9:U:280:THR:CA	2.64	0.57
9:V:65:PRO:O	9:V:66:ARG:CG	2.52	0.57
9:V:167:ILE:HG23	9:V:243:PRO:HA	1.84	0.57
9:V:189:VAL:CB	9:V:215:ALA:HA	2.16	0.57
9:V:262:ALA:O	9:V:271:GLY:CA	2.52	0.57
10:X:101:LEU:HD23	10:X:103:ALA:N	2.06	0.57
10:X:118:LEU:CB	10:X:121:LEU:HD12	2.35	0.57
3:A:301:VAL:N	3:A:302:ASP:OD1	2.37	0.57
3:A:449:THR:CG2	3:A:535:VAL:C	2.78	0.57
3:A:674:SER:HA	3:A:681:ALA:HB3	1.87	0.57
3:A:686:ILE:HB	3:A:882:ILE:CD1	2.33	0.57
3:A:932:VAL:O	3:A:933:HIS:C	2.46	0.57
3:A:983:VAL:C	3:A:985:LEU:N	2.56	0.57
3:A:1057:LYS:HG3	3:A:1057:LYS:O	2.05	0.57
4:B:8:VAL:HG11	6:E:615:TYR:HE2	1.69	0.57
4:B:77:GLU:HA	4:B:90:ARG:CZ	2.34	0.57
4:B:100:GLY:N	4:B:423:LEU:HA	2.19	0.57
4:B:181:LYS:O	4:B:182:GLY:C	2.47	0.57
4:B:299:TYR:HE2	4:B:302:SER:CA	2.17	0.57
4:B:855:THR:HA	4:B:873:ARG:O	2.04	0.57
4:B:1079:ALA:CB	4:B:1100:LEU:HD23	2.34	0.57
5:C:51:THR:O	5:C:51:THR:OG1	2.21	0.57
5:C:119:GLU:O	5:C:121:ILE:N	2.38	0.57
5:C:226:ASP:CG	5:D:214:ALA:HB2	2.21	0.57
5:D:183:VAL:H	5:D:192:ASP:HA	1.69	0.57
6:E:133:LEU:O	6:E:137:GLU:HB2	2.04	0.57
6:E:277:ARG:O	6:E:278:ARG:C	2.46	0.57
6:E:426:HIS:CD2	7:F:56:LYS:HZ3	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:556:VAL:HG22	6:E:557:TYR:H	1.68	0.57
8:G:338:ARG:HE	8:G:339:LEU:HG	1.69	0.57
9:S:17:SER:HB3	9:S:19:GLN:HE22	1.67	0.57
9:S:81:LEU:HD23	9:S:86:ALA:HB2	1.86	0.57
9:S:106:PRO:HD2	9:S:304:ILE:HG13	1.85	0.57
9:S:132:LEU:CD2	9:U:24:LYS:CD	2.78	0.57
9:S:149:ARG:HG2	9:U:24:LYS:HG3	1.86	0.57
9:T:100:LEU:CD2	9:T:301:ILE:CD1	2.77	0.57
9:T:105:LEU:O	9:T:108:VAL:HG12	2.04	0.57
9:V:219:ALA:C	9:V:221:LEU:N	2.58	0.57
10:X:95:PHE:CZ	10:X:172:LEU:HD12	2.39	0.57
10:X:131:LEU:HD21	10:Y:129:ARG:NH2	2.20	0.57
10:Y:167:GLY:HA3	10:Y:213:HIS:CA	2.20	0.57
2:2:81:DG:OP2	9:S:34:ARG:NH2	2.38	0.57
3:A:32:GLU:CA	3:A:34:GLN:HE22	2.00	0.57
3:A:232:GLU:CG	3:A:236:MET:CG	2.50	0.57
3:A:240:ARG:HD3	3:A:240:ARG:O	2.05	0.57
3:A:749:ARG:N	3:A:751:LEU:HD23	2.19	0.57
3:A:928:SER:HA	3:A:931:ILE:CD1	2.34	0.57
4:B:11:GLY:C	4:B:14:ARG:H	2.11	0.57
4:B:208:ILE:HD13	4:B:210:ARG:HH21	1.69	0.57
4:B:519:HIS:CD2	4:B:867:PRO:HG3	2.40	0.57
4:B:536:GLU:HG3	4:B:839:VAL:HG22	1.87	0.57
4:B:577:THR:OG1	4:B:580:THR:N	2.38	0.57
4:B:833:VAL:HG12	4:B:834:ILE:O	2.03	0.57
4:B:880:GLU:CG	4:B:881:GLY:N	2.48	0.57
4:B:1127:MET:O	4:B:1130:GLN:N	2.31	0.57
5:D:135:LYS:HG2	5:D:136:LEU:H	1.69	0.57
5:D:154:GLY:C	5:D:156:GLU:H	2.13	0.57
6:E:36:VAL:HG21	6:E:62:ILE:HG22	1.85	0.57
6:E:260:VAL:CG1	8:G:286:LEU:HD22	2.35	0.57
7:F:34:GLN:O	7:F:35:VAL:C	2.46	0.57
8:G:290:ILE:HG13	8:G:291:GLY:N	2.19	0.57
9:S:84:LEU:HB2	9:S:89:GLN:CG	2.34	0.57
9:T:91:GLU:O	9:T:92:LEU:HG	2.05	0.57
9:T:132:LEU:HD11	9:T:279:VAL:HG11	1.79	0.57
9:U:103:SER:HB3	9:U:104:TYR:CD2	2.39	0.57
9:V:58:LEU:HG	9:V:61:GLU:CB	2.34	0.57
9:V:108:VAL:CG2	9:V:293:PHE:HZ	2.14	0.57
10:X:150:VAL:HA	10:X:153:LEU:CD2	2.35	0.57
10:Y:99:GLU:C	10:Y:100:LEU:HD12	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:72:DT:C7	10:X:188:VAL:HG13	2.35	0.57
3:A:65:LEU:CD1	3:A:351:MET:HE1	2.15	0.57
3:A:275:TYR:O	3:A:278:ASN:OD1	2.22	0.57
3:A:289:VAL:C	3:A:290:ARG:HD2	2.28	0.57
3:A:488:LEU:HD23	3:A:488:LEU:C	2.30	0.57
3:A:545:LEU:HD11	3:A:553:ALA:HB2	1.86	0.57
3:A:579:GLU:O	3:A:580:ALA:C	2.47	0.57
3:A:589:VAL:HG12	3:A:672:GLY:H	1.67	0.57
3:A:689:ALA:HA	3:A:974:ILE:HG22	1.85	0.57
3:A:929:ARG:O	3:A:930:ARG:C	2.47	0.57
3:A:1014:GLY:O	3:A:1015:GLN:C	2.43	0.57
4:B:34:ASP:OD1	6:E:370:ILE:CD1	2.51	0.57
4:B:267:ASP:CG	4:B:268:LEU:N	2.53	0.57
4:B:439:GLU:OE1	4:B:440:LYS:N	2.38	0.57
4:B:487:VAL:HG21	4:B:989:GLN:OE1	2.04	0.57
4:B:554:GLN:HG3	4:B:561:ASN:HD21	1.70	0.57
4:B:704:ASP:OD1	4:B:704:ASP:N	2.37	0.57
4:B:786:GLU:C	4:B:788:VAL:H	2.11	0.57
4:B:809:ALA:O	4:B:810:SER:C	2.46	0.57
4:B:1009:GLN:CD	4:B:1013:ARG:HG2	2.29	0.57
4:B:1117:VAL:O	4:B:1121:LEU:HG	2.05	0.57
5:C:5:GLN:HE22	5:C:27:PRO:CD	2.18	0.57
5:D:99:LEU:HG	5:D:113:ASP:OD2	2.05	0.57
6:E:108:LEU:HD13	6:E:112:VAL:HG13	1.87	0.57
6:E:437:HIS:CD2	6:E:439:LEU:HB2	2.39	0.57
6:E:499:SER:HB2	6:E:501:ALA:HB3	1.85	0.57
6:E:593:VAL:HG21	6:E:601:VAL:CB	2.34	0.57
6:E:623:LEU:HD12	6:E:624:ALA:CB	2.35	0.57
8:G:206:PHE:CB	8:G:210:ALA:H	2.17	0.57
8:G:286:LEU:O	8:G:286:LEU:HG	2.04	0.57
9:T:33:SER:O	9:T:50:ARG:NH2	2.37	0.57
9:T:162:LEU:HA	9:T:301:ILE:CG2	2.34	0.57
9:T:205:LEU:HD22	9:T:274:ARG:NE	2.18	0.57
9:T:251:ARG:CD	9:T:258:VAL:HB	2.35	0.57
9:U:249:GLU:O	9:U:253:ASP:N	2.35	0.57
10:X:130:ILE:HG21	10:Y:130:ILE:HG23	1.86	0.57
3:A:147:VAL:HG23	3:A:164:SER:O	2.03	0.57
3:A:149:TYR:N	3:A:149:TYR:CD1	2.72	0.57
3:A:161:TYR:O	3:A:162:SER:OG	2.23	0.57
3:A:421:ASP:C	3:A:422:ILE:HD13	2.29	0.57
3:A:425:SER:HG	3:A:426:HIS:H	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:499:GLU:CD	3:A:499:GLU:C	2.72	0.57
3:A:544:PHE:HD2	3:A:899:PHE:HD2	1.51	0.57
3:A:546:GLU:HB3	3:A:919:PHE:CA	2.28	0.57
3:A:552:ARG:HH21	3:A:894:ASN:HD22	1.53	0.57
3:A:567:LEU:HD12	3:A:568:LYS:N	2.20	0.57
3:A:623:ASP:HB2	3:A:629:SER:CB	2.35	0.57
3:A:806:VAL:HG22	3:A:810:GLU:CG	2.29	0.57
3:A:1035:GLN:OE1	4:B:1242:GLY:O	2.23	0.57
4:B:93:LYS:CD	4:B:375:ASP:HA	2.35	0.57
4:B:210:ARG:N	4:B:210:ARG:CD	2.66	0.57
4:B:211:GLU:OE1	4:B:212:ILE:N	2.38	0.57
4:B:246:GLU:OE2	4:B:280:VAL:HG22	2.05	0.57
4:B:441:ALA:C	4:B:998:VAL:HA	2.30	0.57
4:B:519:HIS:HB3	4:B:806:GLU:HB3	1.86	0.57
4:B:538:GLU:HB2	4:B:835:LEU:CD1	2.34	0.57
5:C:159:THR:HA	5:C:163:PHE:CE1	2.40	0.57
6:E:213:ILE:O	6:E:214:GLY:C	2.47	0.57
6:E:276:TYR:O	6:E:277:ARG:C	2.48	0.57
6:E:429:MET:HA	6:E:443:ALA:HA	1.86	0.57
6:E:485:ALA:CB	6:E:488:ARG:HE	2.18	0.57
8:G:82:ILE:O	8:G:85:TYR:N	2.37	0.57
8:G:271:GLU:CD	8:G:272:LYS:N	2.63	0.57
9:S:177:LEU:HD23	9:S:187:GLU:CG	2.30	0.57
9:S:178:ALA:CA	9:S:259:ARG:HG3	2.35	0.57
9:S:273:THR:O	9:S:275:ARG:HG3	2.05	0.57
9:T:151:LEU:C	9:T:152:THR:HG23	2.26	0.57
9:U:105:LEU:HD22	9:U:302:PRO:HA	1.86	0.57
9:U:161:VAL:CG2	9:U:162:LEU:H	2.13	0.57
9:U:292:HIS:O	9:U:296:LEU:HB3	2.04	0.57
9:V:160:GLU:OE2	9:V:294:TRP:C	2.47	0.57
9:V:169:LEU:HD23	9:V:183:VAL:HG12	1.86	0.57
10:X:49:LYS:CB	10:X:99:GLU:HB2	2.33	0.57
10:X:128:SER:O	10:X:132:GLN:CG	2.52	0.57
1:1:94:DT:P	8:G:232:PRO:HB3	2.44	0.57
3:A:73:LYS:HZ1	3:A:98:PRO:HG2	1.68	0.57
3:A:148:TYR:HB3	3:A:315:ASP:OD2	2.04	0.57
3:A:196:GLN:CD	3:A:200:LYS:HB2	2.30	0.57
3:A:292:LEU:HD23	3:A:292:LEU:N	2.18	0.57
3:A:327:SER:O	3:A:328:VAL:C	2.44	0.57
3:A:913:ARG:NH2	3:A:915:LYS:HD3	2.20	0.57
3:A:1052:LEU:HD11	8:G:309:PRO:CB	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:51:ILE:HD12	4:B:52:SER:O	2.05	0.57
4:B:71:GLU:HA	4:B:74:ARG:CG	2.31	0.57
4:B:372:HIS:CE1	4:B:374:GLU:OE2	2.58	0.57
4:B:488:TYR:CE1	4:B:879:LYS:N	2.73	0.57
4:B:563:LEU:CD2	4:B:573:ASN:CA	2.63	0.57
4:B:1138:ASP:OD1	4:B:1139:LYS:N	2.38	0.57
5:C:53:VAL:O	5:C:168:SER:HB3	2.05	0.57
5:C:82:MET:O	5:C:83:LYS:C	2.48	0.57
5:C:107:ILE:CG1	5:C:128:ALA:HB3	2.35	0.57
5:C:120:VAL:O	5:C:120:VAL:HG23	2.04	0.57
5:C:183:VAL:HB	5:C:191:LYS:O	2.05	0.57
5:C:204:ILE:HG22	5:C:208:GLU:HB2	1.86	0.57
5:D:87:LEU:HA	5:D:121:ILE:HG12	1.87	0.57
5:D:107:ILE:CG1	5:D:128:ALA:HB3	2.35	0.57
6:E:142:PHE:CE2	6:E:300:ARG:O	2.57	0.57
6:E:259:MET:HG2	6:E:269:THR:HG23	1.87	0.57
6:E:329:ARG:CG	6:E:330:PRO:CD	2.80	0.57
6:E:444:PHE:CA	6:E:492:LEU:HD11	2.32	0.57
6:E:552:LEU:CD2	6:E:553:HIS:CE1	2.88	0.57
8:G:106:LYS:CG	8:G:151:GLY:HA2	2.34	0.57
8:G:111:LEU:HB3	8:G:115:ARG:HE	1.69	0.57
8:G:326:LEU:CD1	8:G:329:LEU:HD21	2.32	0.57
9:T:46:GLU:CD	9:T:48:PHE:H	2.13	0.57
9:T:197:LYS:CA	9:T:200:TYR:H	2.17	0.57
9:V:109:LEU:O	9:V:113:CYS:HB3	2.04	0.57
9:V:209:LYS:CE	9:V:241:LEU:CD2	2.73	0.57
9:V:230:ARG:H	9:V:233:VAL:HG12	1.70	0.57
10:X:46:PHE:HB2	10:X:101:LEU:HD13	1.86	0.57
1:1:28:DT:H3	2:2:98:DA:N6	2.01	0.57
3:A:31:ILE:C	3:A:33:ILE:H	2.12	0.57
3:A:427:TYR:CD1	4:B:173:ILE:HD13	2.33	0.57
3:A:599:VAL:HG22	3:A:615:PRO:HD2	1.87	0.57
3:A:762:TRP:HZ2	3:A:811:LYS:CE	2.16	0.57
3:A:862:ILE:O	3:A:863:SER:O	2.23	0.57
3:A:905:TRP:CD1	3:A:905:TRP:O	2.57	0.57
3:A:959:VAL:HG23	3:A:972:VAL:H	1.70	0.57
4:B:65:LEU:HD22	4:B:105:LEU:HD12	1.86	0.57
4:B:242:ARG:HA	4:B:300:GLY:CA	2.26	0.57
4:B:606:PHE:HE1	4:B:778:ASP:HB2	1.70	0.57
4:B:761:GLN:C	4:B:763:GLY:H	2.12	0.57
4:B:858:GLU:HB3	4:B:870:VAL:CG2	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:882:GLY:HA2	4:B:900:LEU:C	2.30	0.57
4:B:1244:LEU:HD23	4:B:1244:LEU:N	2.20	0.57
5:C:83:LYS:N	5:C:84:GLU:OE2	2.37	0.57
5:C:203:SER:OG	5:C:204:ILE:HG12	2.04	0.57
5:D:82:MET:O	5:D:83:LYS:C	2.48	0.57
6:E:80:ARG:CZ	8:G:345:ASP:CB	2.82	0.57
6:E:85:VAL:HG12	6:E:92:GLU:HG3	1.87	0.57
6:E:403:ALA:O	6:E:406:LYS:CE	2.53	0.57
6:E:487:ALA:HA	6:E:491:MET:O	2.04	0.57
9:S:105:LEU:HD22	9:S:297:VAL:CG2	2.35	0.57
9:S:112:PHE:CA	9:S:293:PHE:CE1	2.88	0.57
9:T:131:ALA:HA	9:T:134:VAL:HG22	1.87	0.57
9:T:159:VAL:O	9:T:160:GLU:HG2	2.05	0.57
9:U:41:ALA:O	9:U:42:ASP:HB2	2.05	0.57
9:U:147:ASN:O	9:U:149:ARG:N	2.36	0.57
9:U:289:PRO:HB2	9:U:290:ILE:HD12	1.86	0.57
9:V:88:LYS:HD3	9:V:91:GLU:HG3	1.86	0.57
9:V:126:LEU:HD21	9:V:134:VAL:CG2	2.35	0.57
9:V:175:HIS:CG	9:V:177:LEU:HD13	2.39	0.57
9:V:183:VAL:C	9:V:188:LEU:HB3	2.30	0.57
9:V:189:VAL:HB	9:V:215:ALA:CA	2.17	0.57
3:A:44:GLU:CG	3:A:45:GLY:N	2.67	0.56
3:A:166:ILE:CD1	3:A:172:TRP:CD2	2.87	0.56
3:A:393:LEU:HD22	3:A:561:ARG:HA	1.87	0.56
3:A:421:ASP:O	3:A:422:ILE:HD13	2.05	0.56
3:A:428:GLY:N	3:A:534:ILE:HG22	2.11	0.56
3:A:449:THR:CG2	3:A:535:VAL:CB	2.82	0.56
3:A:470:ARG:HH12	3:A:500:ASN:C	2.13	0.56
3:A:528:ALA:HB1	3:A:530:SER:H	1.70	0.56
3:A:579:GLU:C	3:A:581:GLN:OE1	2.48	0.56
3:A:868:ILE:O	3:A:868:ILE:HG13	2.03	0.56
3:A:1036:GLU:OE1	3:A:1037:LEU:HA	2.04	0.56
3:A:1055:ILE:HG22	6:E:390:ASN:ND2	2.21	0.56
3:A:1100:VAL:HB	6:E:101:HIS:NE2	2.20	0.56
4:B:179:ALA:O	4:B:180:ARG:C	2.42	0.56
4:B:281:VAL:HA	4:B:282:VAL:HG13	1.87	0.56
4:B:412:ILE:CG1	4:B:424:LEU:HD13	2.35	0.56
4:B:458:VAL:HA	4:B:475:ALA:HB3	1.86	0.56
4:B:550:THR:O	4:B:564:ILE:HA	2.05	0.56
4:B:609:VAL:HG12	4:B:626:GLY:CA	2.28	0.56
4:B:759:SER:OG	4:B:766:ILE:HD12	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1224:ALA:C	4:B:1226:GLU:N	2.58	0.56
5:C:99:LEU:HG	5:C:113:ASP:OD2	2.05	0.56
6:E:94:THR:HB	6:E:95:GLU:CD	2.29	0.56
6:E:434:PRO:CG	6:E:436:LEU:CD2	2.83	0.56
9:S:105:LEU:N	9:S:106:PRO:HD3	2.20	0.56
9:T:213:LEU:O	9:T:213:LEU:HG	2.05	0.56
9:U:94:ILE:CG2	9:U:290:ILE:HG23	2.35	0.56
9:U:98:HIS:CE1	9:U:203:GLN:HB2	2.40	0.56
9:U:98:HIS:NE2	9:U:242:LEU:HB3	2.20	0.56
9:U:242:LEU:HD11	9:U:246:ALA:N	2.20	0.56
9:V:147:ASN:HA	9:V:150:PHE:HE1	1.69	0.56
9:V:159:VAL:C	9:V:278:MET:CG	2.76	0.56
9:V:213:LEU:HD12	9:V:265:ALA:HA	1.86	0.56
10:Y:95:PHE:CZ	10:Y:172:LEU:HD11	2.39	0.56
3:A:75:LYS:HB2	3:A:94:GLN:NE2	2.21	0.56
3:A:958:MET:HG2	3:A:959:VAL:N	2.20	0.56
4:B:53:VAL:O	4:B:55:ASP:N	2.37	0.56
4:B:265:SER:HG	4:B:266:ASP:N	2.01	0.56
4:B:787:GLY:C	4:B:789:GLU:H	2.13	0.56
5:C:39:ALA:O	5:C:40:LEU:C	2.44	0.56
5:C:156:GLU:OE1	5:C:163:PHE:CE2	2.58	0.56
5:D:24:ILE:HD11	5:D:195:LEU:HD22	1.85	0.56
5:D:63:HIS:CE1	5:D:65:PHE:CD1	2.93	0.56
6:E:268:ALA:O	8:G:283:PRO:HB2	2.05	0.56
6:E:268:ALA:HA	8:G:283:PRO:HB2	1.87	0.56
6:E:365:GLY:HA3	6:E:455:GLN:OE1	2.05	0.56
6:E:457:HIS:CE1	6:E:459:LEU:N	2.68	0.56
6:E:587:LEU:O	6:E:588:TYR:C	2.48	0.56
6:E:608:THR:HG21	6:E:612:ARG:HD2	1.77	0.56
7:F:35:VAL:O	7:F:38:ARG:HB2	2.05	0.56
8:G:285:SER:CB	8:G:288:THR:HB	2.35	0.56
8:G:378:HIS:HB2	8:G:381:ARG:CZ	2.35	0.56
9:S:9:PHE:HA	9:S:12:ILE:CD1	2.34	0.56
9:S:105:LEU:HD13	9:S:297:VAL:HG23	1.86	0.56
9:S:162:LEU:CD1	9:S:276:VAL:HG23	2.05	0.56
9:S:196:PHE:CE2	9:S:197:LYS:HB2	2.41	0.56
9:U:37:GLN:HA	9:U:40:GLU:OE1	2.04	0.56
9:U:94:ILE:CG2	9:U:293:PHE:CD2	2.89	0.56
9:U:150:PHE:C	9:U:151:LEU:HG	2.30	0.56
9:U:188:LEU:CD1	9:U:193:GLN:HG2	2.35	0.56
9:V:209:LYS:N	9:V:213:LEU:H	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:X:33:THR:HA	10:X:91:HIS:HE1	1.69	0.56
10:X:185:SER:HB3	10:X:189:THR:OG1	2.05	0.56
3:A:46:LEU:HD23	3:A:47:ILE:H	1.68	0.56
3:A:61:GLY:O	3:A:104:LYS:HE2	2.05	0.56
3:A:148:TYR:CA	3:A:149:TYR:CD1	2.89	0.56
3:A:173:LEU:CD2	3:A:187:ILE:HD12	2.35	0.56
3:A:360:THR:O	3:A:361:PRO:C	2.47	0.56
3:A:469:GLY:HA2	3:A:503:ILE:CD1	2.36	0.56
3:A:558:ASN:CB	3:A:561:ARG:HD2	2.36	0.56
3:A:578:LEU:O	3:A:578:LEU:HG	2.04	0.56
3:A:738:ARG:O	3:A:748:LEU:HD11	2.06	0.56
3:A:740:ILE:HG12	3:A:741:PRO:CD	2.33	0.56
3:A:744:GLY:C	3:A:747:ALA:H	2.12	0.56
3:A:792:PHE:CG	8:G:390:ARG:OXT	2.57	0.56
3:A:929:ARG:NH1	4:B:164:ARG:NH2	2.53	0.56
3:A:995:THR:HA	6:E:355:ASP:OD2	2.04	0.56
4:B:77:GLU:CG	4:B:90:ARG:CZ	2.65	0.56
4:B:124:MET:HE1	6:E:519:TYR:HD1	1.71	0.56
4:B:212:ILE:HG13	4:B:213:ASP:H	1.70	0.56
4:B:233:ILE:HG12	4:B:238:ARG:HD2	1.86	0.56
4:B:303:LEU:HB3	6:E:502:THR:C	2.30	0.56
4:B:479:LEU:CA	4:B:481:TRP:CZ3	2.88	0.56
4:B:603:PHE:HB2	4:B:632:ILE:HB	1.88	0.56
4:B:675:THR:OG1	4:B:684:VAL:HA	2.05	0.56
5:C:63:HIS:CE1	5:C:65:PHE:CD1	2.93	0.56
5:C:87:LEU:HA	5:C:121:ILE:HG12	1.87	0.56
5:C:91:SER:HB3	5:C:95:GLN:NE2	2.20	0.56
5:C:171:MET:O	5:C:174:ARG:NH2	2.39	0.56
5:C:173:VAL:HA	5:C:200:THR:HA	1.87	0.56
5:C:173:VAL:H	5:C:174:ARG:HE	1.53	0.56
5:C:180:VAL:HA	5:C:194:LEU:HA	1.87	0.56
5:D:55:ALA:HB3	5:D:141:ARG:HG2	1.87	0.56
5:D:73:GLU:HG3	5:D:81:ARG:HH21	1.70	0.56
5:D:119:GLU:O	5:D:121:ILE:N	2.38	0.56
5:D:141:ARG:NH2	5:D:155:ARG:NH1	2.53	0.56
6:E:19:PRO:O	6:E:23:ARG:HG3	2.05	0.56
6:E:41:LYS:O	6:E:42:PRO:C	2.47	0.56
6:E:104:GLY:O	6:E:105:TYR:CG	2.58	0.56
6:E:115:VAL:CG2	6:E:311:ASP:HB3	2.35	0.56
6:E:252:ILE:HG23	6:E:256:LEU:HD21	1.88	0.56
6:E:305:MET:CE	8:G:181:GLN:CG	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:379:MET:O	6:E:379:MET:HG3	2.06	0.56
6:E:583:SER:HB2	6:E:594:ARG:NE	2.21	0.56
6:E:610:PRO:O	6:E:614:ILE:HG13	2.05	0.56
8:G:86:LEU:HD22	8:G:87:GLN:OE1	2.05	0.56
9:S:3:LEU:HD21	9:S:74:TRP:NE1	2.15	0.56
9:S:46:GLU:HG3	9:S:57:THR:CG2	2.21	0.56
9:S:128:SER:CB	9:S:145:VAL:HG11	2.36	0.56
9:S:205:LEU:O	9:S:208:GLU:OE1	2.23	0.56
9:S:209:LYS:O	9:S:210:PHE:HD1	1.88	0.56
9:S:294:TRP:HE3	9:S:298:ARG:HH21	1.46	0.56
9:T:31:THR:HG22	9:T:32:ILE:N	2.20	0.56
9:T:156:ASP:OD1	9:T:156:ASP:O	2.23	0.56
9:U:243:PRO:CB	9:U:274:ARG:HD3	2.35	0.56
9:U:278:MET:SD	9:U:294:TRP:CA	2.67	0.56
9:V:89:GLN:HB2	9:V:287:ILE:CG2	2.20	0.56
9:V:171:THR:HB	9:V:177:LEU:HB3	1.87	0.56
9:V:175:HIS:HA	9:V:234:ARG:O	2.05	0.56
9:V:200:TYR:HB3	9:V:203:GLN:CB	2.35	0.56
10:X:64:ILE:O	10:X:66:VAL:HG23	2.04	0.56
10:X:126:LEU:CB	10:Y:126:LEU:CD2	2.80	0.56
10:Y:148:ARG:CZ	10:Y:183:ILE:HD13	2.36	0.56
3:A:220:GLN:O	3:A:220:GLN:HG3	2.06	0.56
3:A:494:ASP:OD2	3:A:921:GLU:CG	2.54	0.56
3:A:553:ALA:C	3:A:554:LEU:HG	2.30	0.56
3:A:1031:ALA:CB	4:B:1244:LEU:HB2	2.35	0.56
3:A:1048:ARG:HG2	3:A:1049:ASN:N	2.20	0.56
4:B:7:VAL:CG1	4:B:8:VAL:N	2.68	0.56
4:B:197:THR:CG2	4:B:325:GLU:H	2.18	0.56
4:B:199:ARG:CD	4:B:1214:GLN:HG3	2.35	0.56
4:B:245:GLY:HA3	4:B:260:ARG:HD2	1.83	0.56
4:B:295:CYS:C	4:B:298:CYS:H	2.13	0.56
4:B:360:PRO:CB	4:B:361:ARG:HG2	2.35	0.56
4:B:451:GLY:O	4:B:988:VAL:HG22	2.06	0.56
4:B:529:THR:HB	4:B:530:PRO:HD3	1.87	0.56
4:B:609:VAL:CA	4:B:626:GLY:HA3	2.35	0.56
4:B:885:ARG:H	4:B:887:VAL:HG23	1.70	0.56
4:B:896:ARG:HD3	4:B:987:LEU:N	2.20	0.56
4:B:897:CYS:O	4:B:899:VAL:HG12	2.04	0.56
4:B:940:ILE:HA	4:B:966:ILE:HG13	1.86	0.56
4:B:1245:ILE:HD11	4:B:1247:ALA:O	2.05	0.56
5:C:40:LEU:HD23	5:C:210:LEU:HD21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:217:LEU:O	5:C:219:ASP:C	2.49	0.56
6:E:267:PHE:O	8:G:283:PRO:HB3	2.04	0.56
6:E:375:LEU:HD13	6:E:475:VAL:HG11	1.87	0.56
6:E:438:ARG:NH2	6:E:500:PRO:HG2	2.21	0.56
6:E:443:ALA:HB3	6:E:492:LEU:HA	1.87	0.56
8:G:101:ILE:O	8:G:105:ARG:HG3	2.06	0.56
8:G:378:HIS:O	8:G:380:ASN:N	2.39	0.56
9:S:81:LEU:CB	9:T:44:GLY:HA2	2.34	0.56
9:S:99:SER:HB3	9:S:202:MET:HE1	1.88	0.56
9:T:157:MET:HE3	9:T:281:THR:O	2.05	0.56
9:U:96:ALA:H	9:U:123:VAL:CG2	2.17	0.56
9:U:159:VAL:HG13	9:U:160:GLU:N	2.21	0.56
9:V:10:LEU:HD11	9:V:64:LEU:CD2	2.36	0.56
9:V:128:SER:C	9:V:131:ALA:H	2.14	0.56
9:V:210:PHE:O	9:V:214:GLU:HA	2.06	0.56
9:V:253:ASP:HB3	9:V:256:LEU:HD13	1.88	0.56
10:X:70:ARG:HH22	10:X:156:LEU:HB2	1.65	0.56
10:X:163:PRO:CB	10:X:168:ILE:HD12	2.35	0.56
10:Y:119:SER:HA	10:Y:122:MET:HB2	1.87	0.56
1:1:93:DT:H5”	6:E:48:ARG:HH22	1.69	0.56
3:A:142:VAL:HG22	3:A:143:ARG:H	1.71	0.56
3:A:159:ARG:HG2	3:A:160:THR:N	2.16	0.56
3:A:173:LEU:CD2	3:A:187:ILE:HB	2.32	0.56
3:A:185:VAL:HG22	3:A:194:SER:O	2.04	0.56
3:A:463:PHE:HD2	3:A:481:THR:CG2	2.04	0.56
3:A:520:THR:O	3:A:523:GLN:CD	2.48	0.56
3:A:618:SER:O	3:A:621:SER:N	2.31	0.56
3:A:704:ILE:O	3:A:865:ILE:HA	2.06	0.56
3:A:737:THR:O	3:A:755:GLY:HA3	2.06	0.56
3:A:993:ARG:HD3	3:A:1011:GLN:O	2.06	0.56
4:B:296:GLN:HE22	4:B:297:HIS:HA	1.70	0.56
4:B:482:ILE:C	4:B:484:SER:H	2.14	0.56
4:B:851:GLY:C	4:B:877:LEU:HD21	2.24	0.56
4:B:908:LEU:O	4:B:964:VAL:HG23	2.05	0.56
4:B:1172:GLN:O	4:B:1175:GLN:N	2.37	0.56
5:C:57:ARG:O	5:C:138:MET:HA	2.06	0.56
5:C:182:GLU:OE1	5:C:192:ASP:HB3	2.06	0.56
6:E:18:SER:O	6:E:19:PRO:C	2.48	0.56
6:E:153:ALA:HB3	6:E:182:GLN:HB2	1.88	0.56
6:E:251:VAL:HG22	6:E:276:TYR:CZ	2.40	0.56
6:E:368:LEU:HD12	6:E:368:LEU:C	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:454:ILE:HG22	6:E:455:GLN:N	2.17	0.56
6:E:543:MET:O	6:E:545:PHE:N	2.39	0.56
6:E:552:LEU:HD22	6:E:553:HIS:HE1	1.71	0.56
8:G:221:ALA:C	8:G:223:ALA:N	2.60	0.56
9:S:295:GLN:HA	9:S:298:ARG:NE	2.20	0.56
9:T:203:GLN:HG3	9:T:204:ARG:N	2.19	0.56
9:U:45:LEU:CD2	9:U:62:ARG:NH2	2.68	0.56
9:V:3:LEU:HD12	9:V:3:LEU:C	2.28	0.56
9:V:92:LEU:HD13	9:V:294:TRP:CD1	2.41	0.56
9:V:205:LEU:HG	9:V:272:LEU:HD21	1.85	0.56
9:V:226:LEU:CD1	9:V:242:LEU:HD12	2.35	0.56
3:A:255:GLN:O	3:A:258:ASP:OD1	2.24	0.56
3:A:368:LYS:O	3:A:369:PRO:C	2.47	0.56
3:A:430:ILE:HG23	3:A:446:SER:HB2	1.87	0.56
3:A:772:LYS:O	3:A:803:SER:OG	2.24	0.56
3:A:959:VAL:HG12	3:A:961:ASP:OD1	2.04	0.56
3:A:1016:ARG:HH22	6:E:353:ARG:NH2	2.03	0.56
4:B:185:ASP:O	4:B:185:ASP:OD1	2.24	0.56
4:B:299:TYR:HE2	4:B:302:SER:HA	1.70	0.56
4:B:318:ILE:CD1	6:E:438:ARG:HH12	1.97	0.56
4:B:616:LYS:HG2	4:B:620:GLY:HA3	1.88	0.56
4:B:777:LYS:O	4:B:779:SER:N	2.38	0.56
4:B:849:THR:HG21	4:B:895:ARG:NH2	2.21	0.56
4:B:1156:ASP:C	4:B:1158:GLY:N	2.59	0.56
5:C:38:ASN:O	5:C:39:ALA:C	2.43	0.56
5:D:57:ARG:NH1	5:D:57:ARG:HG2	2.19	0.56
5:D:80:MET:CG	6:E:534:TYR:CE1	2.70	0.56
5:D:227:ILE:O	5:D:228:SER:C	2.48	0.56
6:E:19:PRO:CA	6:E:22:ILE:HG12	2.33	0.56
8:G:106:LYS:O	8:G:110:LEU:HD23	2.06	0.56
8:G:141:LEU:HG	8:G:144:PHE:CZ	2.37	0.56
8:G:218:ILE:O	8:G:219:THR:C	2.46	0.56
8:G:322:LEU:HD23	8:G:343:LEU:HD11	1.87	0.56
8:G:339:LEU:CB	8:G:343:LEU:HB3	2.32	0.56
9:S:225:THR:HG21	9:U:123:VAL:O	2.00	0.56
9:T:156:ASP:OD2	9:T:286:GLN:N	2.39	0.56
9:T:180:TYR:O	9:T:188:LEU:HD22	2.00	0.56
9:T:196:PHE:CD2	9:T:200:TYR:HD1	1.94	0.56
9:U:279:VAL:HG12	9:U:281:THR:HG23	1.87	0.56
9:V:177:LEU:CD1	9:V:191:TYR:OH	2.54	0.56
10:X:137:ILE:CD1	10:Y:137:ILE:HD13	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:95:MET:HB3	3:A:117:GLY:C	2.31	0.56
3:A:166:ILE:CG1	3:A:172:TRP:CD2	2.81	0.56
3:A:196:GLN:HB2	3:A:199:LEU:HB2	1.87	0.56
3:A:276:LYS:O	3:A:277:LEU:C	2.49	0.56
3:A:281:LEU:O	3:A:283:LEU:N	2.39	0.56
3:A:389:GLN:CG	3:A:645:SER:HB2	2.35	0.56
3:A:491:ALA:HB3	3:A:526:TYR:O	2.06	0.56
3:A:698:TYR:CE1	6:E:468:PHE:HE1	2.24	0.56
3:A:699:GLU:O	3:A:700:ASP:OD1	2.23	0.56
3:A:945:LYS:HB3	3:A:947:TRP:HD1	1.71	0.56
3:A:1006:LEU:HD23	3:A:1006:LEU:N	2.21	0.56
3:A:1032:TYR:CD1	6:E:482:GLU:OE2	2.58	0.56
3:A:1055:ILE:CG1	6:E:387:PHE:CZ	2.88	0.56
4:B:85:ILE:C	4:B:371:ARG:O	2.49	0.56
4:B:200:LEU:HD23	4:B:1197:ILE:CD1	2.33	0.56
4:B:208:ILE:HD12	4:B:208:ILE:N	2.21	0.56
4:B:443:LYS:HD3	4:B:997:LEU:O	2.06	0.56
4:B:498:VAL:HG11	4:B:504:VAL:HG11	1.87	0.56
4:B:519:HIS:HB3	4:B:806:GLU:CA	2.34	0.56
4:B:572:PHE:HA	4:B:590:GLU:O	2.06	0.56
4:B:764:ARG:HH11	4:B:764:ARG:HG3	1.69	0.56
4:B:900:LEU:HD12	4:B:904:ASP:HB3	1.88	0.56
5:D:82:MET:C	5:D:84:GLU:OE2	2.49	0.56
5:D:91:SER:HB3	5:D:95:GLN:NE2	2.20	0.56
6:E:18:SER:C	6:E:20:GLU:OE1	2.48	0.56
6:E:456:LEU:HD23	6:E:456:LEU:H	1.66	0.56
6:E:561:ASP:OD2	6:E:604:GLN:CG	2.53	0.56
8:G:112:GLU:O	8:G:116:VAL:HG22	2.05	0.56
9:T:169:LEU:O	9:T:258:VAL:HA	2.06	0.56
9:U:196:PHE:O	9:U:197:LYS:C	2.48	0.56
9:V:49:HIS:HE1	9:V:55:LYS:O	1.79	0.56
9:V:301:ILE:O	9:V:303:PRO:HD3	2.04	0.56
10:X:212:VAL:CG2	10:X:217:THR:CG2	2.82	0.56
10:Y:194:LEU:HD12	10:Y:203:ILE:HD13	1.87	0.56
1:1:60:DT:H2"	1:1:61:DT:H71	1.88	0.56
3:A:103:ASN:HD21	3:A:108:ASP:H	1.53	0.56
3:A:189:LYS:CG	3:A:192:LYS:NZ	2.68	0.56
3:A:259:SER:OG	3:A:259:SER:O	2.23	0.56
3:A:300:ALA:C	3:A:302:ASP:OD1	2.49	0.56
3:A:346:ILE:HD12	3:A:346:ILE:H	1.71	0.56
3:A:491:ALA:N	3:A:526:TYR:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:573:LEU:HD23	3:A:574:VAL:CB	2.35	0.56
3:A:598:VAL:C	3:A:615:PRO:HD3	2.31	0.56
3:A:619:GLY:O	3:A:633:GLN:HG3	2.05	0.56
3:A:680:LEU:O	3:A:682:LEU:N	2.38	0.56
3:A:699:GLU:C	3:A:700:ASP:CG	2.74	0.56
3:A:727:ARG:CG	3:A:728:GLN:H	2.16	0.56
3:A:846:ILE:HG21	3:A:981:LYS:HD3	1.87	0.56
3:A:852:MET:HB2	3:A:981:LYS:HA	1.86	0.56
4:B:37:LYS:HB3	6:E:513:MET:SD	2.46	0.56
4:B:222:VAL:HB	4:B:223:ARG:O	2.06	0.56
4:B:283:ARG:CZ	4:B:297:HIS:HB3	2.36	0.56
4:B:359:LEU:HB3	4:B:386:ILE:HD11	1.86	0.56
4:B:452:GLU:N	4:B:484:SER:O	2.35	0.56
4:B:547:ASP:OD1	4:B:548:GLN:N	2.38	0.56
4:B:586:GLN:HE21	4:B:798:GLU:HA	1.70	0.56
4:B:672:VAL:HA	4:B:686:VAL:HA	1.87	0.56
4:B:1098:PHE:CZ	4:B:1106:VAL:HG23	2.41	0.56
4:B:1163:LEU:HD12	4:B:1163:LEU:C	2.30	0.56
4:B:1235:LEU:HD12	4:B:1235:LEU:C	2.30	0.56
5:C:112:PHE:HD2	5:C:113:ASP:N	1.90	0.56
5:D:100:LEU:C	5:D:101:VAL:O	2.44	0.56
5:D:141:ARG:HH22	5:D:155:ARG:HH11	1.53	0.56
6:E:19:PRO:C	6:E:23:ARG:HG3	2.31	0.56
8:G:185:GLN:NE2	8:G:186:GLU:CG	2.54	0.56
8:G:366:ARG:HB2	8:G:367:GLN:HE22	1.70	0.56
9:S:157:MET:CG	9:U:20:LYS:HZ1	2.15	0.56
9:T:123:VAL:CG2	9:V:223:VAL:CA	2.83	0.56
9:U:70:ILE:HG13	9:V:70:ILE:HD13	1.87	0.56
9:U:76:THR:O	9:U:80:GLU:HG3	2.04	0.56
9:U:166:PRO:HG2	9:U:244:SER:HB3	1.88	0.56
9:V:107:PRO:HB2	9:V:303:PRO:CG	2.34	0.56
9:V:126:LEU:HD13	9:V:139:LEU:CD2	2.36	0.56
9:V:166:PRO:CB	9:V:263:ASN:HB2	2.35	0.56
9:V:196:PHE:HD2	9:V:206:VAL:CB	2.19	0.56
9:V:213:LEU:CD1	9:V:265:ALA:HA	2.36	0.56
10:X:52:VAL:HG22	10:X:53:LYS:HG2	1.87	0.56
10:X:191:THR:HA	10:X:194:LEU:HD23	1.88	0.56
10:X:212:VAL:CG1	10:X:214:LYS:O	2.53	0.56
10:Y:116:PRO:O	10:Y:120:MET:HG3	2.05	0.56
3:A:98:PRO:HB3	3:A:111:GLU:OE2	2.05	0.56
3:A:281:LEU:O	3:A:283:LEU:CG	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:449:THR:HG23	3:A:535:VAL:O	2.04	0.56
3:A:717:ILE:HG22	3:A:843:LYS:HA	1.88	0.56
3:A:763:VAL:O	3:A:811:LYS:HA	2.06	0.56
3:A:764:GLU:HA	3:A:811:LYS:HA	1.87	0.56
4:B:43:TYR:N	4:B:43:TYR:CD1	2.65	0.56
4:B:271:GLU:CD	4:B:272:ILE:N	2.63	0.56
4:B:523:VAL:H	4:B:862:GLY:N	2.04	0.56
4:B:866:VAL:HB	4:B:869:SER:CB	2.36	0.56
4:B:882:GLY:HA3	4:B:899:VAL:HG22	1.88	0.56
4:B:1244:LEU:CD2	4:B:1245:ILE:H	2.18	0.56
5:C:135:LYS:HG2	5:C:136:LEU:N	2.21	0.56
6:E:68:ASP:OD1	6:E:95:GLU:HA	2.05	0.56
6:E:289:LEU:C	6:E:291:GLU:OE1	2.49	0.56
6:E:362:ILE:HD12	6:E:454:ILE:CB	2.34	0.56
8:G:225:GLN:OE1	8:G:225:GLN:HA	1.96	0.56
9:S:144:ILE:HG23	9:S:277:VAL:N	2.20	0.56
9:T:105:LEU:CD1	9:T:296:LEU:CD2	2.52	0.56
9:T:140:VAL:HG12	9:T:142:LEU:H	1.71	0.56
9:T:156:ASP:O	9:T:157:MET:CB	2.50	0.56
9:T:192:PRO:CB	9:T:238:LEU:CD2	2.84	0.56
9:U:12:ILE:HG21	9:U:18:PHE:CE1	2.36	0.56
9:U:243:PRO:HB2	9:U:274:ARG:HD3	1.86	0.56
9:V:263:ASN:HA	9:V:272:LEU:N	2.21	0.56
10:Y:87:ASP:O	10:Y:89:PHE:HD1	1.89	0.56
3:A:154:ASP:OD1	3:A:154:ASP:N	2.37	0.56
3:A:159:ARG:NH1	3:A:161:TYR:CZ	2.74	0.56
3:A:415:ALA:C	3:A:419:VAL:HG21	2.31	0.56
3:A:423:HIS:CD2	3:A:425:SER:OG	2.59	0.56
3:A:494:ASP:OD2	3:A:921:GLU:HG2	2.05	0.56
3:A:578:LEU:C	3:A:581:GLN:HE22	2.13	0.56
3:A:580:ALA:HB1	3:A:678:GLY:O	2.05	0.56
3:A:590:ILE:N	3:A:670:ALA:HB3	2.19	0.56
3:A:662:ARG:NE	3:A:663:VAL:N	2.52	0.56
3:A:741:PRO:C	3:A:743:VAL:HG22	2.31	0.56
3:A:762:TRP:HZ2	3:A:811:LYS:HE3	1.71	0.56
3:A:990:ILE:O	3:A:991:HIS:HB2	2.05	0.56
3:A:1055:ILE:HG13	6:E:387:PHE:CZ	2.41	0.56
4:B:104:ALA:O	4:B:107:ASP:OD1	2.24	0.56
4:B:106:LYS:HD2	4:B:109:VAL:HG11	1.88	0.56
4:B:160:LYS:HE2	4:B:171:GLU:CD	2.30	0.56
4:B:240:LEU:HA	4:B:264:ILE:HG23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:299:TYR:CA	4:B:1139:LYS:HZ1	2.19	0.56
4:B:562:TYR:HB2	4:B:574:LEU:HD21	1.87	0.56
4:B:689:GLY:HA3	4:B:690:GLU:OE1	2.06	0.56
4:B:769:ARG:HB3	4:B:796:VAL:O	2.06	0.56
5:C:5:GLN:HE21	5:C:7:GLU:CD	2.13	0.56
5:C:194:LEU:HG	5:C:195:LEU:N	2.14	0.56
6:E:148:LEU:HD12	6:E:149:SER:N	2.21	0.56
8:G:78:THR:C	8:G:79:GLU:CD	2.73	0.56
8:G:169:ILE:HG23	8:G:215:ARG:HG2	1.88	0.56
8:G:282:LEU:HD11	8:G:283:PRO:HD2	1.70	0.56
9:S:108:VAL:CB	9:S:297:VAL:HA	2.31	0.56
9:S:126:LEU:CD1	9:S:131:ALA:CB	2.42	0.56
9:S:160:GLU:HB3	9:S:278:MET:O	2.06	0.56
9:S:228:ALA:HA	9:U:109:LEU:HD22	1.86	0.56
9:S:290:ILE:O	9:S:294:TRP:N	2.38	0.56
9:T:158:VAL:H	9:T:294:TRP:HZ2	1.48	0.56
9:T:163:TYR:HB3	9:T:245:SER:CB	2.36	0.56
9:V:160:GLU:OE1	9:V:297:VAL:HG11	2.04	0.56
9:V:188:LEU:O	9:V:239:ILE:CG2	2.54	0.56
10:X:170:ILE:HD12	10:X:210:ILE:HG13	1.88	0.56
10:Y:52:VAL:HG11	10:Y:98:VAL:HG21	1.88	0.56
3:A:26:LEU:HD23	3:A:26:LEU:N	2.20	0.55
3:A:59:TYR:HB2	3:A:352:THR:HG21	1.88	0.55
3:A:85:LYS:O	3:A:818:ARG:NH1	2.38	0.55
3:A:215:HIS:CD2	3:A:219:PHE:CD2	2.93	0.55
3:A:684:GLN:HE22	3:A:714:TYR:HE1	1.52	0.55
3:A:706:GLU:O	3:A:707:ARG:C	2.48	0.55
3:A:875:PRO:HG3	3:A:960:TYR:HE2	0.77	0.55
3:A:929:ARG:HB3	3:A:933:HIS:HE1	1.71	0.55
3:A:999:SER:H	3:A:1004:GLN:C	2.14	0.55
3:A:1017:PHE:HZ	3:A:1022:VAL:CG1	2.18	0.55
4:B:59:PRO:HB3	4:B:112:HIS:CG	2.40	0.55
4:B:247:ASP:N	4:B:247:ASP:OD1	2.32	0.55
4:B:444:ASP:HA	4:B:996:LEU:HD22	1.87	0.55
4:B:488:TYR:CD2	4:B:897:CYS:HB2	2.40	0.55
4:B:606:PHE:C	4:B:630:LEU:HG	2.31	0.55
4:B:725:ILE:HG13	4:B:726:GLN:O	2.06	0.55
4:B:897:CYS:N	4:B:987:LEU:HD13	2.21	0.55
4:B:1245:ILE:HD12	4:B:1247:ALA:HB3	1.86	0.55
5:C:141:ARG:NH2	5:C:155:ARG:HB2	2.21	0.55
5:D:73:GLU:HG2	5:D:73:GLU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:77:GLU:HG2	5:D:80:MET:SD	2.46	0.55
6:E:191:GLU:CB	6:E:194:LEU:HD21	2.34	0.55
6:E:264:GLY:H	8:G:278:LYS:HE3	1.72	0.55
6:E:346:ARG:CG	6:E:350:LEU:CB	2.74	0.55
6:E:423:ILE:HD11	6:E:448:LEU:CB	2.33	0.55
6:E:430:LEU:HD22	6:E:473:MET:HE2	1.88	0.55
8:G:81:SER:HA	8:G:84:LEU:CG	2.36	0.55
8:G:245:THR:OG1	8:G:246:THR:N	2.39	0.55
9:S:184:PRO:CA	9:S:213:LEU:HD13	2.22	0.55
9:T:158:VAL:HG22	9:T:159:VAL:N	2.16	0.55
9:T:227:ASP:OD2	9:V:98:HIS:HD2	1.88	0.55
9:U:90:PRO:HG2	9:U:119:VAL:H	1.71	0.55
9:U:185:TRP:CZ3	9:U:261:LEU:HB3	2.42	0.55
9:U:278:MET:HE2	9:U:294:TRP:CA	1.84	0.55
9:U:284:ARG:HA	9:U:287:ILE:HG12	1.88	0.55
9:U:298:ARG:HG3	9:U:298:ARG:O	2.06	0.55
9:V:105:LEU:HD11	9:V:109:LEU:HD21	1.86	0.55
9:V:167:ILE:CD1	9:V:272:LEU:CD2	2.81	0.55
10:Y:52:VAL:HG22	10:Y:53:LYS:HG2	1.88	0.55
10:Y:136:MET:HE2	10:Y:152:PHE:HD1	1.71	0.55
10:Y:188:VAL:C	10:Y:190:VAL:H	2.13	0.55
3:A:119:LEU:HD22	3:A:374:ILE:HD12	1.87	0.55
3:A:142:VAL:HG22	3:A:143:ARG:N	2.21	0.55
3:A:176:GLU:OE2	3:A:184:TRP:CD1	2.60	0.55
3:A:288:THR:HG22	3:A:290:ARG:NH1	2.17	0.55
3:A:360:THR:OG1	3:A:361:PRO:HD2	2.06	0.55
3:A:371:VAL:O	3:A:375:LYS:HB2	2.07	0.55
3:A:709:VAL:HG13	3:A:845:LYS:HD2	1.87	0.55
3:A:1036:GLU:OE2	3:A:1040:VAL:C	2.50	0.55
3:A:1041:LYS:HB2	6:E:354:VAL:CG2	2.36	0.55
3:A:1087:HIS:NE2	6:E:11:TYR:CZ	2.74	0.55
4:B:73:ILE:O	4:B:74:ARG:C	2.46	0.55
4:B:144:ARG:CG	4:B:161:THR:O	2.33	0.55
4:B:225:MET:HB3	4:B:232:LEU:CD2	2.34	0.55
4:B:357:ILE:HA	4:B:389:PRO:HB3	1.88	0.55
4:B:358:LYS:HG2	4:B:389:PRO:CB	2.35	0.55
4:B:587:VAL:HG12	4:B:794:GLN:OE1	2.06	0.55
4:B:652:GLN:HG3	4:B:691:LEU:HD13	1.88	0.55
4:B:672:VAL:CG2	4:B:686:VAL:CG1	2.69	0.55
4:B:694:VAL:HB	4:B:736:LEU:HD13	1.87	0.55
4:B:708:LEU:O	4:B:722:LEU:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:901:ARG:H	4:B:904:ASP:HB2	1.71	0.55
5:C:221:PHE:CZ	5:D:40:LEU:HD13	2.27	0.55
5:D:78:ILE:HG23	5:D:138:MET:HE3	1.88	0.55
5:D:196:LEU:HD12	5:D:196:LEU:C	2.32	0.55
6:E:261:GLN:HG3	6:E:267:PHE:CE1	2.40	0.55
6:E:459:LEU:CD2	6:E:507:ILE:CG2	2.79	0.55
6:E:530:GLY:HA3	6:E:550:ILE:CD1	2.36	0.55
7:F:53:ALA:HA	7:F:60:ARG:CZ	2.35	0.55
8:G:326:LEU:HD11	8:G:329:LEU:CD2	2.33	0.55
9:S:137:ASP:O	9:S:284:ARG:NH2	2.39	0.55
9:S:237:GLU:O	9:S:239:ILE:HG23	2.06	0.55
9:T:157:MET:HB2	9:T:294:TRP:CH2	2.39	0.55
9:T:167:ILE:CG2	9:T:209:LYS:HG3	2.37	0.55
9:V:108:VAL:HA	9:V:300:ASN:HB3	1.88	0.55
9:V:144:ILE:HG21	9:V:301:ILE:HG21	1.86	0.55
10:X:47:LEU:HA	10:X:100:LEU:CG	2.36	0.55
1:1:113:DT:C7	3:A:414:ARG:CZ	2.84	0.55
3:A:243:ARG:HG2	3:A:243:ARG:O	2.07	0.55
3:A:403:SER:OG	3:A:405:LEU:N	2.39	0.55
3:A:520:THR:HB	3:A:521:PRO:HD2	1.88	0.55
3:A:570:GLU:CD	3:A:571:ARG:N	2.64	0.55
3:A:599:VAL:O	3:A:659:ILE:HB	2.05	0.55
3:A:724:ILE:HG22	3:A:836:VAL:HB	1.88	0.55
3:A:734:GLU:HG2	3:A:774:THR:HA	1.87	0.55
3:A:769:LEU:HB2	3:A:804:LEU:CB	2.36	0.55
3:A:775:PRO:O	3:A:776:LYS:CD	2.53	0.55
3:A:788:LEU:O	3:A:791:ILE:N	2.39	0.55
3:A:903:LEU:O	3:A:904:GLY:C	2.45	0.55
3:A:1034:LEU:N	3:A:1034:LEU:CD2	2.69	0.55
4:B:101:THR:O	4:B:104:ALA:N	2.39	0.55
4:B:281:VAL:CG1	4:B:282:VAL:HG22	2.36	0.55
4:B:480:ILE:N	4:B:972:TYR:O	2.39	0.55
4:B:517:THR:C	4:B:865:ILE:HG22	2.32	0.55
4:B:694:VAL:O	4:B:734:PRO:HA	2.07	0.55
4:B:814:ALA:H	4:B:834:ILE:CG1	2.19	0.55
4:B:858:GLU:CD	4:B:871:VAL:HA	2.30	0.55
5:D:57:ARG:HB2	5:D:139:GLU:HB2	1.89	0.55
6:E:71:CYS:HA	6:E:91:VAL:CB	2.37	0.55
7:F:13:GLN:HE21	7:F:16:HIS:N	2.04	0.55
8:G:92:ILE:HG21	8:G:160:GLN:O	2.06	0.55
8:G:108:ALA:O	8:G:110:LEU:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:112:GLU:CD	8:G:115:ARG:HH21	2.13	0.55
8:G:192:ILE:CG1	8:G:193:ARG:N	2.53	0.55
8:G:376:LEU:HD23	8:G:376:LEU:N	2.21	0.55
9:S:136:LYS:HG2	9:S:150:PHE:C	2.31	0.55
9:T:165:GLU:CD	9:T:166:PRO:HD2	2.30	0.55
9:U:96:ALA:HB2	9:U:293:PHE:HE1	1.71	0.55
9:U:172:ALA:CA	9:U:256:LEU:HA	2.31	0.55
9:U:278:MET:SD	9:U:297:VAL:CB	2.93	0.55
9:V:71:CYS:HA	9:V:74:TRP:CD1	2.42	0.55
1:1:22:DG:OP1	2:2:107:DT:O3'	2.25	0.55
2:2:62:DA:H62	10:Y:187:ARG:NE	2.00	0.55
3:A:307:LEU:HD12	3:A:307:LEU:C	2.31	0.55
3:A:371:VAL:HA	3:A:374:ILE:HD11	1.87	0.55
3:A:449:THR:HG21	3:A:535:VAL:HG13	1.89	0.55
3:A:527:VAL:HG22	3:A:528:ALA:N	2.20	0.55
3:A:713:ILE:HG22	3:A:714:TYR:N	2.20	0.55
3:A:729:THR:N	3:A:733:PRO:HA	2.22	0.55
3:A:1033:THR:O	3:A:1037:LEU:CA	2.53	0.55
4:B:359:LEU:HD22	4:B:393:GLY:O	2.07	0.55
4:B:437:ASN:CG	4:B:1004:THR:HG22	2.31	0.55
4:B:491:PRO:HD3	4:B:876:ILE:CD1	2.27	0.55
4:B:512:GLU:HA	4:B:874:THR:O	2.07	0.55
4:B:780:GLU:OE1	4:B:782:VAL:HG13	2.07	0.55
5:C:58:ILE:CD1	5:C:138:MET:HA	2.36	0.55
5:C:75:VAL:HG12	5:C:79:ILE:HG12	1.87	0.55
5:C:82:MET:C	5:C:84:GLU:OE2	2.49	0.55
5:C:181:GLU:OE1	5:C:193:ARG:HB3	2.06	0.55
5:C:216:ILE:O	5:C:220:LEU:HD23	2.06	0.55
5:D:48:LEU:HD11	5:D:171:MET:HG2	1.88	0.55
6:E:22:ILE:HB	6:E:105:TYR:OH	2.06	0.55
6:E:315:ASP:OD1	6:E:316:ASN:C	2.49	0.55
6:E:416:TRP:N	6:E:416:TRP:HD1	2.02	0.55
6:E:609:THR:HG22	6:E:612:ARG:HB2	1.89	0.55
8:G:138:GLN:O	8:G:139:LEU:CG	2.54	0.55
8:G:182:ASP:HA	8:G:185:GLN:CG	2.37	0.55
8:G:198:PHE:CD1	8:G:199:ASP:N	2.75	0.55
8:G:302:ILE:HG22	8:G:303:GLU:O	2.07	0.55
8:G:329:LEU:HD13	8:G:334:ARG:H	1.71	0.55
9:S:146:MET:HG2	9:S:205:LEU:HD22	1.87	0.55
9:S:185:TRP:HZ2	9:S:265:ALA:H	1.55	0.55
9:T:97:ILE:HG23	9:T:100:LEU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:156:ASP:OD2	9:T:285:LEU:CB	2.34	0.55
9:T:172:ALA:HB2	9:T:233:VAL:HG11	1.88	0.55
9:T:203:GLN:O	9:T:204:ARG:C	2.48	0.55
9:U:92:LEU:CD2	9:U:290:ILE:HD12	2.33	0.55
9:V:128:SER:CB	9:V:204:ARG:CG	2.85	0.55
9:V:144:ILE:HB	9:V:162:LEU:HB3	1.88	0.55
9:V:191:TYR:CE2	9:V:239:ILE:HD11	2.41	0.55
9:V:202:MET:CE	9:V:243:PRO:HG3	2.37	0.55
10:Y:49:LYS:O	10:Y:98:VAL:HG13	2.06	0.55
2:2:78:DA:P	9:S:17:SER:HA	2.45	0.55
3:A:48:GLU:CD	3:A:48:GLU:N	2.64	0.55
3:A:232:GLU:HG3	3:A:236:MET:HG3	0.73	0.55
3:A:238:LEU:CD1	3:A:257:LEU:HD12	2.37	0.55
3:A:422:ILE:HD11	4:B:180:ARG:NE	2.22	0.55
3:A:436:PRO:CD	3:A:444:ILE:HD13	2.37	0.55
3:A:606:ILE:C	3:A:609:ARG:NH1	2.65	0.55
3:A:738:ARG:C	3:A:739:GLU:OE1	2.49	0.55
3:A:738:ARG:HA	3:A:755:GLY:CA	2.36	0.55
3:A:752:ASP:C	3:A:756:ILE:HG22	2.31	0.55
4:B:160:LYS:CE	4:B:171:GLU:CD	2.80	0.55
4:B:202:ASP:OD2	4:B:1213:PHE:HB2	2.06	0.55
4:B:507:ASN:ND2	4:B:507:ASN:O	2.39	0.55
4:B:523:VAL:O	4:B:861:ASP:HA	2.05	0.55
4:B:856:SER:OG	4:B:873:ARG:HD2	2.07	0.55
4:B:1037:LYS:HB2	4:B:1052:ILE:HG22	1.88	0.55
4:B:1091:HIS:HD2	4:B:1194:LEU:HD12	1.70	0.55
5:C:73:GLU:HG2	5:C:73:GLU:O	2.06	0.55
5:D:98:ARG:O	5:D:99:LEU:HB2	2.06	0.55
5:D:101:VAL:O	5:D:102:ASN:CG	2.50	0.55
5:D:217:LEU:O	5:D:219:ASP:C	2.49	0.55
6:E:19:PRO:HB3	6:E:247:THR:HG21	1.89	0.55
6:E:116:TRP:C	6:E:117:TYR:CD1	2.84	0.55
6:E:151:GLY:HA2	6:E:184:VAL:HB	1.89	0.55
7:F:37:ASN:HA	7:F:40:LYS:HD2	1.88	0.55
7:F:41:ARG:O	7:F:45:GLU:OE1	2.23	0.55
9:S:4:GLU:CA	9:S:27:VAL:CG2	2.81	0.55
9:S:64:LEU:HA	9:S:68:ARG:H	1.72	0.55
9:S:71:CYS:HA	9:S:74:TRP:CD1	2.42	0.55
9:S:93:CYS:HB3	9:S:124:THR:HG22	1.89	0.55
9:S:277:VAL:CG1	9:S:279:VAL:HG23	2.36	0.55
9:T:98:HIS:HA	9:T:125:SER:CB	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:160:GLU:HB3	9:U:298:ARG:CG	2.36	0.55
9:V:105:LEU:HD11	9:V:109:LEU:CD2	2.34	0.55
9:V:159:VAL:HA	9:V:278:MET:CB	2.36	0.55
9:V:166:PRO:CA	9:V:263:ASN:HB2	2.37	0.55
9:V:284:ARG:CZ	9:V:290:ILE:HD11	2.34	0.55
9:V:293:PHE:HA	9:V:296:LEU:CB	2.34	0.55
10:Y:47:LEU:CB	10:Y:69:LEU:HD23	2.26	0.55
10:Y:197:LEU:HA	10:Y:200:LYS:HB2	1.88	0.55
2:2:64:DA:C5	2:2:65:DA:C6	2.94	0.55
3:A:178:ASP:HB2	3:A:182:LEU:HD22	1.88	0.55
3:A:296:ASP:OD1	3:A:297:ILE:HG13	2.06	0.55
3:A:374:ILE:O	3:A:376:GLU:N	2.40	0.55
3:A:560:GLN:HA	3:A:563:ALA:HB2	1.88	0.55
3:A:608:VAL:HA	3:A:611:SER:OG	2.07	0.55
3:A:608:VAL:N	3:A:615:PRO:HB2	2.21	0.55
3:A:730:LYS:HE3	8:G:275:PHE:CE1	2.42	0.55
3:A:755:GLY:O	3:A:770:VAL:HG23	2.06	0.55
3:A:856:HIS:NE2	3:A:897:GLN:CG	2.67	0.55
3:A:922:MET:C	3:A:924:GLY:H	2.13	0.55
3:A:1043:ASP:OD1	3:A:1069:SER:N	2.30	0.55
3:A:1089:VAL:HG12	3:A:1094:ASP:HB3	1.89	0.55
4:B:86:THR:C	4:B:89:GLU:HB2	2.31	0.55
4:B:100:GLY:O	4:B:103:GLU:N	2.40	0.55
4:B:140:LEU:HD23	4:B:163:PHE:HE2	1.71	0.55
4:B:197:THR:HG21	4:B:325:GLU:H	1.71	0.55
4:B:203:VAL:HG21	4:B:1197:ILE:CG2	2.36	0.55
4:B:286:LEU:CA	4:B:1146:ARG:CD	2.80	0.55
4:B:505:GLU:O	4:B:507:ASN:N	2.39	0.55
4:B:532:LYS:HG3	4:B:844:ILE:CG2	2.36	0.55
4:B:1019:GLU:OE2	4:B:1197:ILE:CG1	2.54	0.55
4:B:1201:SER:O	4:B:1202:LEU:HB2	2.07	0.55
5:C:109:ALA:HB2	5:C:125:GLN:O	2.07	0.55
5:D:105:THR:HG22	5:D:106:THR:O	2.07	0.55
6:E:50:LEU:C	6:E:51:LYS:HZ1	2.14	0.55
6:E:414:SER:O	6:E:418:VAL:HB	2.06	0.55
6:E:541:VAL:HA	6:E:544:ALA:CB	2.36	0.55
8:G:107:ILE:CG1	8:G:200:HIS:HE1	1.96	0.55
8:G:139:LEU:O	8:G:144:PHE:HD2	1.84	0.55
9:S:285:LEU:HD13	9:S:291:LYS:HD2	1.87	0.55
9:T:156:ASP:HA	9:T:294:TRP:CB	2.36	0.55
9:T:175:HIS:NE2	9:T:177:LEU:CG	2.68	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:177:LEU:CG	9:T:180:TYR:HD2	2.12	0.55
9:T:249:GLU:CD	9:V:227:ASP:OD2	2.50	0.55
9:U:126:LEU:HD22	9:U:140:VAL:HG21	1.87	0.55
9:V:213:LEU:HA	9:V:265:ALA:CB	2.33	0.55
9:V:290:ILE:HA	9:V:294:TRP:HB2	1.87	0.55
10:X:137:ILE:HA	10:X:140:LEU:HD23	1.88	0.55
10:Y:47:LEU:CD1	10:Y:75:PHE:CZ	2.77	0.55
3:A:104:LYS:HA	4:B:557:GLN:HA	1.87	0.55
3:A:281:LEU:C	3:A:283:LEU:H	2.14	0.55
3:A:302:ASP:O	3:A:305:ILE:N	2.40	0.55
3:A:547:HIS:CE1	3:A:920:ASP:OD2	2.59	0.55
3:A:556:GLY:HA3	3:A:857:GLY:H	1.71	0.55
3:A:698:TYR:O	3:A:699:GLU:CD	2.50	0.55
3:A:830:PRO:C	3:A:832:ALA:N	2.61	0.55
3:A:959:VAL:HG12	3:A:968:PHE:HB2	1.88	0.55
4:B:59:PRO:HB2	4:B:108:GLU:OE2	2.07	0.55
4:B:484:SER:HB2	4:B:968:ALA:HB3	1.89	0.55
4:B:538:GLU:CG	4:B:540:ILE:HG12	2.37	0.55
4:B:707:LEU:HB2	4:B:723:ARG:C	2.31	0.55
4:B:943:VAL:HA	4:B:964:VAL:HG13	1.87	0.55
4:B:1178:GLU:CA	4:B:1181:ALA:HB3	2.32	0.55
4:B:1225:ILE:HG23	6:E:16:LEU:HD21	1.89	0.55
5:D:185:ALA:HB3	5:D:191:LYS:CG	2.29	0.55
6:E:287:ALA:C	6:E:289:LEU:N	2.60	0.55
6:E:498:LEU:HB2	6:E:504:ARG:C	2.31	0.55
8:G:153:ARG:HA	8:G:156:ASP:HB2	1.89	0.55
8:G:273:LEU:N	8:G:273:LEU:HD12	2.20	0.55
9:S:146:MET:HE2	9:S:201:GLY:C	2.30	0.55
9:T:126:LEU:CD1	9:T:131:ALA:HB1	2.35	0.55
9:T:235:GLN:C	9:T:237:GLU:H	2.15	0.55
9:U:77:ALA:CB	9:V:66:ARG:HD2	2.24	0.55
9:U:126:LEU:C	9:U:126:LEU:HD12	2.31	0.55
9:U:194:VAL:HB	9:U:238:LEU:HD22	1.88	0.55
9:U:204:ARG:O	9:U:205:LEU:C	2.48	0.55
9:U:209:LYS:O	9:U:209:LYS:NZ	2.28	0.55
9:V:196:PHE:O	9:V:222:GLU:HB3	2.05	0.55
9:V:202:MET:HE2	9:V:243:PRO:HG3	1.87	0.55
9:V:226:LEU:HD13	9:V:242:LEU:CD1	2.36	0.55
10:X:152:PHE:CZ	10:X:156:LEU:HD22	2.41	0.55
10:Y:170:ILE:HD12	10:Y:208:LYS:O	2.06	0.55
1:1:12:DT:C6	2:2:114:DA:N1	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:94:DT:OP1	8:G:232:PRO:HG3	2.07	0.55
3:A:25:PHE:CG	3:A:26:LEU:N	2.74	0.55
3:A:101:LEU:CB	3:A:109:ILE:HA	2.27	0.55
3:A:441:ALA:O	3:A:443:LEU:N	2.40	0.55
3:A:463:PHE:CD1	3:A:463:PHE:O	2.60	0.55
3:A:534:ILE:O	3:A:534:ILE:HG13	2.06	0.55
3:A:579:GLU:HB2	3:A:680:LEU:HD12	1.88	0.55
3:A:609:ARG:HA	3:A:635:ILE:C	2.31	0.55
3:A:826:ASP:O	3:A:828:LEU:N	2.39	0.55
3:A:1034:LEU:O	3:A:1035:GLN:C	2.46	0.55
4:B:101:THR:OG1	4:B:102:SER:N	2.40	0.55
4:B:133:ASN:HB3	4:B:136:GLN:CD	2.32	0.55
4:B:168:THR:HG23	4:B:169:VAL:N	2.22	0.55
4:B:213:ASP:O	4:B:214:CYS:C	2.50	0.55
4:B:234:LYS:O	4:B:235:LEU:HB3	2.07	0.55
4:B:694:VAL:HG23	4:B:699:ALA:HB3	1.89	0.55
4:B:809:ALA:HB3	4:B:834:ILE:CG2	2.23	0.55
4:B:936:GLU:OE2	4:B:966:ILE:HG21	2.07	0.55
4:B:1126:GLN:CD	4:B:1136:ILE:HG13	2.32	0.55
4:B:1247:ALA:O	7:F:29:TYR:OH	2.24	0.55
5:C:18:ASN:ND2	5:C:199:TRP:CD1	2.75	0.55
5:C:58:ILE:HD11	5:C:138:MET:HG2	1.86	0.55
5:C:74:ASP:O	5:C:77:GLU:HG2	2.07	0.55
5:C:101:VAL:O	5:C:102:ASN:CG	2.50	0.55
5:D:213:ALA:HA	5:D:216:ILE:HD12	1.88	0.55
5:D:214:ALA:O	5:D:215:GLY:C	2.49	0.55
6:E:140:VAL:O	6:E:141:TYR:C	2.50	0.55
6:E:413:PRO:HG2	6:E:414:SER:H	1.72	0.55
9:T:183:VAL:N	9:T:261:LEU:HD11	2.11	0.55
9:U:100:LEU:C	9:U:105:LEU:HG	2.32	0.55
9:V:89:GLN:C	9:V:287:ILE:CG2	2.80	0.55
9:V:194:VAL:HB	9:V:238:LEU:HB2	1.89	0.55
10:Y:200:LYS:C	10:Y:202:MET:H	2.15	0.55
3:A:58:ASP:HA	3:A:352:THR:HG1	1.72	0.55
3:A:199:LEU:CD1	3:A:227:GLY:CA	2.55	0.55
3:A:372:ALA:O	3:A:373:ALA:C	2.44	0.55
3:A:397:THR:CG2	3:A:398:HIS:N	2.70	0.55
3:A:419:VAL:CG2	3:A:420:ARG:N	2.69	0.55
3:A:491:ALA:HA	3:A:510:VAL:HG12	1.89	0.55
3:A:552:ARG:NE	3:A:892:ARG:HB3	2.19	0.55
3:A:581:GLN:N	3:A:581:GLN:CD	2.63	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1007:GLY:H	6:E:353:ARG:NH1	2.04	0.55
3:A:1036:GLU:C	3:A:1036:GLU:CD	2.73	0.55
4:B:16:LEU:O	4:B:18:SER:N	2.40	0.55
4:B:103:GLU:HB3	4:B:424:LEU:CD1	2.30	0.55
4:B:141:VAL:O	4:B:162:ASN:HB3	2.06	0.55
4:B:189:ARG:O	4:B:190:THR:C	2.49	0.55
4:B:234:LYS:HE3	4:B:236:SER:HB2	1.89	0.55
4:B:250:HIS:CG	4:B:250:HIS:O	2.60	0.55
4:B:513:THR:O	4:B:515:LEU:N	2.40	0.55
4:B:525:LEU:HG	4:B:859:VAL:HG11	1.89	0.55
4:B:539:ILE:O	4:B:539:ILE:HG13	2.06	0.55
4:B:1238:ASN:ND2	4:B:1245:ILE:HA	2.22	0.55
5:C:220:LEU:O	5:C:221:PHE:C	2.49	0.55
5:D:135:LYS:HG2	5:D:136:LEU:N	2.21	0.55
9:S:175:HIS:NE2	9:S:239:ILE:HG21	2.22	0.55
9:T:167:ILE:N	9:T:273:THR:HA	2.22	0.55
9:T:172:ALA:HB1	9:T:255:THR:CG2	2.37	0.55
9:T:261:LEU:CB	9:T:272:LEU:HD13	2.37	0.55
9:U:146:MET:O	9:U:147:ASN:C	2.50	0.55
9:U:209:LYS:HA	9:U:212:ARG:CD	2.36	0.55
9:V:230:ARG:H	9:V:233:VAL:CG1	2.19	0.55
9:V:288:PRO:HB2	9:V:289:PRO:CD	2.37	0.55
10:X:100:LEU:O	10:X:101:LEU:HB3	2.06	0.55
10:Y:126:LEU:O	10:Y:130:ILE:HG12	2.07	0.55
1:1:14:DC:H2"	1:1:15:DA:C8	2.42	0.55
3:A:324:ARG:CD	3:A:456:TYR:O	2.38	0.55
3:A:389:GLN:O	3:A:649:THR:HG21	2.07	0.55
3:A:762:TRP:HZ2	3:A:811:LYS:CD	2.20	0.55
3:A:801:ASP:O	3:A:801:ASP:OD1	2.25	0.55
3:A:986:VAL:O	3:A:990:ILE:N	2.39	0.55
3:A:1030:ALA:O	3:A:1031:ALA:C	2.50	0.55
3:A:1088:LYS:CB	3:A:1091:THR:HG23	2.37	0.55
4:B:113:PHE:O	4:B:114:LYS:C	2.50	0.55
4:B:157:LEU:HD21	4:B:171:GLU:CA	2.37	0.55
4:B:193:SER:HB3	4:B:328:THR:HB	1.89	0.55
4:B:247:ASP:CG	4:B:258:ALA:O	2.50	0.55
4:B:359:LEU:O	4:B:391:LYS:N	2.40	0.55
4:B:564:ILE:HG22	4:B:570:GLN:O	2.07	0.55
4:B:732:GLU:O	4:B:734:PRO:HD2	2.07	0.55
4:B:775:PRO:O	4:B:776:TYR:HB2	2.06	0.55
4:B:1036:VAL:HA	4:B:1073:ASP:CA	2.26	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1111:SER:O	4:B:1112:HIS:C	2.49	0.55
5:C:183:VAL:CG2	5:C:192:ASP:HA	2.36	0.55
5:D:74:ASP:OD1	5:D:75:VAL:HG12	2.07	0.55
5:D:148:TYR:HB2	5:D:169:ILE:HG22	1.89	0.55
6:E:81:HIS:CG	6:E:84:ILE:HB	2.42	0.55
6:E:401:ILE:HD11	8:G:314:SER:HB2	1.89	0.55
7:F:66:SER:OG	7:F:67:ASP:N	2.40	0.55
8:G:194:ALA:O	8:G:198:PHE:N	2.40	0.55
8:G:199:ASP:O	8:G:202:LYS:HB2	2.06	0.55
8:G:259:GLU:CD	8:G:259:GLU:C	2.74	0.55
8:G:271:GLU:CD	8:G:272:LYS:H	2.13	0.55
8:G:329:LEU:HB2	8:G:375:LYS:HE2	1.89	0.55
8:G:336:VAL:CG1	8:G:358:PHE:CD2	2.90	0.55
9:U:12:ILE:CG2	9:U:36:ILE:HD13	2.24	0.55
9:U:160:GLU:HB3	9:U:298:ARG:CB	2.36	0.55
9:U:177:LEU:CB	9:U:188:LEU:HB3	2.30	0.55
9:U:296:LEU:CG	9:U:301:ILE:N	2.68	0.55
9:V:191:TYR:CD2	9:V:239:ILE:HD11	2.42	0.55
1:1:18:DA:C2	1:1:19:DA:N3	2.75	0.54
3:A:40:TRP:O	3:A:44:GLU:OE1	2.23	0.54
3:A:184:TRP:CE2	3:A:193:LEU:HG	2.42	0.54
3:A:254:GLN:O	3:A:257:LEU:N	2.38	0.54
3:A:397:THR:HB	3:A:537:VAL:CG2	2.37	0.54
3:A:596:GLY:O	3:A:662:ARG:NH2	2.40	0.54
3:A:1054:ALA:HA	3:A:1059:LYS:HB2	1.89	0.54
4:B:240:LEU:HD21	4:B:269:ALA:HB2	1.88	0.54
4:B:268:LEU:HA	4:B:271:GLU:OE2	2.06	0.54
4:B:518:ILE:N	4:B:865:ILE:HG22	2.21	0.54
4:B:575:ARG:HH11	4:B:590:GLU:HB2	1.72	0.54
4:B:835:LEU:HD11	4:B:837:SER:HB3	1.90	0.54
4:B:882:GLY:HA3	4:B:899:VAL:CG2	2.37	0.54
4:B:1135:ASP:C	4:B:1136:ILE:HG23	2.31	0.54
5:C:53:VAL:HG23	5:C:87:LEU:HD22	1.88	0.54
5:D:18:ASN:ND2	5:D:199:TRP:CD1	2.75	0.54
5:D:48:LEU:HD12	5:D:50:GLY:N	2.21	0.54
6:E:45:ILE:HB	6:E:51:LYS:H	1.71	0.54
6:E:213:ILE:HG23	6:E:217:LYS:HD2	1.85	0.54
6:E:362:ILE:HD12	6:E:454:ILE:HG21	1.87	0.54
6:E:415:VAL:HG12	6:E:416:TRP:HA	1.89	0.54
6:E:461:CYS:N	6:E:462:PRO:CD	2.69	0.54
6:E:548:GLU:O	6:E:550:ILE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:31:ILE:O	7:F:34:GLN:HG2	2.06	0.54
8:G:130:ASP:HB2	8:G:133:TRP:HD1	1.72	0.54
9:S:97:ILE:HD12	9:S:200:TYR:OH	2.07	0.54
9:S:126:LEU:HD21	9:S:145:VAL:CG2	2.35	0.54
9:T:95:ALA:CB	9:T:143:ALA:HA	2.32	0.54
9:T:113:CYS:HB3	9:T:118:GLU:HA	1.88	0.54
9:T:134:VAL:HB	9:T:140:VAL:HB	1.89	0.54
9:T:150:PHE:HB2	9:T:279:VAL:HB	1.89	0.54
9:T:163:TYR:CZ	9:T:243:PRO:HG2	2.42	0.54
10:X:131:LEU:CD2	10:Y:130:ILE:HD11	2.37	0.54
10:X:152:PHE:HE2	10:X:156:LEU:HD13	1.72	0.54
10:Y:116:PRO:HB2	10:Y:120:MET:CG	2.26	0.54
3:A:34:GLN:CG	3:A:35:ARG:N	2.70	0.54
3:A:159:ARG:C	3:A:160:THR:HG23	2.33	0.54
3:A:274:ARG:NH1	3:A:289:VAL:HG12	2.23	0.54
3:A:431:CYS:H	3:A:446:SER:CB	2.10	0.54
3:A:767:ASP:O	3:A:768:ILE:HD13	2.06	0.54
3:A:769:LEU:HG	3:A:804:LEU:O	2.08	0.54
3:A:929:ARG:O	3:A:933:HIS:ND1	2.40	0.54
4:B:25:GLY:N	4:B:28:ARG:HH21	1.97	0.54
4:B:89:GLU:HA	4:B:369:ARG:C	2.32	0.54
4:B:221:PRO:HB3	4:B:281:VAL:HG23	1.89	0.54
4:B:443:LYS:CG	4:B:997:LEU:HB3	2.38	0.54
4:B:452:GLU:HG3	4:B:483:LEU:HB2	1.90	0.54
4:B:606:PHE:HA	4:B:630:LEU:H	1.72	0.54
4:B:821:ASP:OD2	4:B:829:ARG:CG	2.55	0.54
4:B:1171:ARG:O	4:B:1174:GLU:OE1	2.25	0.54
5:C:188:SER:O	5:C:191:LYS:HE3	2.07	0.54
5:D:109:ALA:HB2	5:D:125:GLN:O	2.07	0.54
5:D:176:VAL:HG23	5:D:198:VAL:HA	1.89	0.54
5:D:216:ILE:O	5:D:220:LEU:HG	2.07	0.54
6:E:19:PRO:N	6:E:20:GLU:OE1	2.40	0.54
6:E:30:LEU:N	6:E:30:LEU:HD23	2.22	0.54
6:E:30:LEU:HD23	6:E:30:LEU:H	1.71	0.54
6:E:54:MET:C	6:E:55:ASP:O	2.46	0.54
6:E:131:MET:HB3	6:E:136:VAL:HB	1.89	0.54
6:E:272:LEU:O	6:E:275:LEU:HB2	2.07	0.54
6:E:368:LEU:HD21	6:E:455:GLN:C	2.32	0.54
6:E:420:GLU:CG	6:E:423:ILE:HD11	2.33	0.54
6:E:481:LEU:HD23	6:E:482:GLU:OE1	2.08	0.54
6:E:535:PHE:C	6:E:537:SER:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:114:GLU:O	8:G:118:GLU:OE1	2.25	0.54
8:G:114:GLU:CD	8:G:115:ARG:N	2.65	0.54
8:G:343:LEU:C	8:G:345:ASP:N	2.63	0.54
9:U:110:GLN:O	9:U:114:ARG:HB3	2.07	0.54
9:V:48:PHE:CG	9:V:49:HIS:N	2.73	0.54
9:V:200:TYR:CE1	9:V:202:MET:HB2	2.42	0.54
1:1:62:DT:H2"	1:1:63:DG:H8	1.71	0.54
2:2:84:DT:H2"	2:2:85:DT:C5	2.42	0.54
3:A:40:TRP:HA	3:A:43:GLU:OE2	2.07	0.54
3:A:103:ASN:HB2	3:A:105:GLU:H	1.72	0.54
3:A:174:LYS:O	3:A:175:PHE:CD1	2.60	0.54
3:A:299:ALA:O	3:A:303:TYR:HB2	2.08	0.54
3:A:406:GLY:O	3:A:408:GLY:N	2.40	0.54
3:A:558:ASN:HA	3:A:561:ARG:HG3	1.89	0.54
3:A:623:ASP:HB2	3:A:629:SER:HB3	1.89	0.54
3:A:725:GLU:OE1	3:A:834:MET:O	2.26	0.54
3:A:963:ARG:HH21	4:B:42:ARG:CB	2.21	0.54
3:A:968:PHE:HE1	4:B:45:THR:O	1.90	0.54
4:B:37:LYS:HE2	6:E:509:PRO:CD	2.06	0.54
4:B:490:LEU:CA	4:B:876:ILE:CD1	2.85	0.54
4:B:636:THR:HG21	4:B:783:LYS:HA	1.88	0.54
4:B:739:ARG:HB3	4:B:740:PRO:CD	2.37	0.54
4:B:853:THR:HB	4:B:874:THR:HG23	1.89	0.54
4:B:1128:VAL:O	4:B:1131:SER:HB2	2.07	0.54
4:B:1151:LYS:HB2	4:B:1195:LEU:HD11	1.89	0.54
5:C:105:THR:HG22	5:C:106:THR:O	2.07	0.54
5:C:186:ASP:HA	5:C:189:ILE:C	2.33	0.54
6:E:59:CYS:O	6:E:63:PHE:HB2	2.08	0.54
6:E:73:CYS:HB3	6:E:89:CYS:HB2	1.89	0.54
6:E:460:VAL:HG21	6:E:463:ALA:HB3	1.89	0.54
6:E:556:VAL:O	6:E:608:THR:N	2.41	0.54
6:E:593:VAL:HG23	6:E:602:ILE:H	1.73	0.54
8:G:190:GLY:O	8:G:191:LEU:C	2.49	0.54
8:G:307:GLU:OE1	8:G:312:GLN:HB3	2.08	0.54
9:S:16:GLY:C	9:S:18:PHE:N	2.59	0.54
9:S:17:SER:O	9:S:19:GLN:N	2.40	0.54
9:S:167:ILE:O	9:S:263:ASN:OD1	2.25	0.54
9:T:203:GLN:NE2	9:T:207:GLN:OE1	2.40	0.54
9:U:106:PRO:HA	9:U:109:LEU:HB2	1.89	0.54
9:V:88:LYS:HE2	9:V:91:GLU:HG3	1.89	0.54
9:V:92:LEU:HD21	9:V:297:VAL:CG2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:105:LEU:HD12	9:V:109:LEU:HD21	1.80	0.54
9:V:247:LEU:CG	9:V:251:ARG:HG3	2.37	0.54
9:V:264:SER:HA	9:V:269:ASN:N	2.23	0.54
10:Y:100:LEU:O	10:Y:101:LEU:C	2.51	0.54
3:A:164:SER:OG	3:A:164:SER:O	2.26	0.54
3:A:503:ILE:O	3:A:503:ILE:HG13	2.07	0.54
3:A:512:TYR:HB3	3:A:515:GLU:CG	2.36	0.54
3:A:663:VAL:HG12	3:A:664:VAL:O	2.06	0.54
3:A:729:THR:O	3:A:732:GLY:N	2.29	0.54
3:A:738:ARG:O	3:A:739:GLU:HB3	2.07	0.54
3:A:761:ALA:H	3:A:814:VAL:CG1	2.21	0.54
3:A:785:GLU:O	3:A:786:LYS:C	2.50	0.54
3:A:1014:GLY:O	3:A:1016:ARG:N	2.40	0.54
4:B:63:ARG:NH2	4:B:66:LEU:HD22	2.21	0.54
4:B:75:ALA:HB3	4:B:418:VAL:CG2	2.28	0.54
4:B:359:LEU:CB	4:B:386:ILE:HD11	2.37	0.54
4:B:488:TYR:CE2	4:B:878:SER:HB2	2.42	0.54
4:B:540:ILE:C	4:B:833:VAL:CG1	2.81	0.54
4:B:864:THR:O	4:B:865:ILE:C	2.50	0.54
5:D:155:ARG:C	5:D:157:GLU:H	2.15	0.54
5:D:217:LEU:HD12	5:D:221:PHE:CB	2.33	0.54
6:E:58:PHE:HZ	6:E:273:ASN:HD22	1.56	0.54
6:E:69:TRP:HA	6:E:93:VAL:CB	2.37	0.54
6:E:276:TYR:HE1	6:E:313:LEU:HD21	1.72	0.54
6:E:338:ILE:HG22	6:E:344:ARG:HB3	1.89	0.54
6:E:339:GLU:N	6:E:339:GLU:CD	2.63	0.54
6:E:346:ARG:NH1	6:E:350:LEU:HD21	1.79	0.54
8:G:86:LEU:O	8:G:89:ILE:N	2.40	0.54
8:G:118:GLU:C	8:G:120:LEU:N	2.61	0.54
8:G:341:TYR:OH	8:G:365:ILE:HD11	2.07	0.54
9:S:46:GLU:CG	9:S:57:THR:HG21	2.22	0.54
9:S:281:THR:HB	9:S:284:ARG:HH11	1.67	0.54
9:T:121:LEU:O	9:T:122:ARG:HG3	2.07	0.54
9:T:128:SER:HA	9:T:145:VAL:HA	1.89	0.54
9:T:188:LEU:CD1	9:T:260:PRO:O	2.55	0.54
9:T:189:VAL:HG12	9:T:193:GLN:CG	2.23	0.54
9:U:95:ALA:HB2	9:U:140:VAL:HG11	1.87	0.54
9:V:99:SER:HA	9:V:246:ALA:HB2	1.88	0.54
9:V:107:PRO:HA	9:V:110:GLN:HG2	1.88	0.54
9:V:162:LEU:CD1	9:V:278:MET:HE2	2.38	0.54
9:V:193:GLN:HB2	9:V:218:GLN:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:206:VAL:HA	9:V:209:LYS:CD	2.36	0.54
9:V:208:GLU:OE1	9:V:212:ARG:CZ	2.55	0.54
10:X:200:LYS:C	10:X:202:MET:N	2.65	0.54
10:X:212:VAL:CG2	10:X:217:THR:OG1	2.56	0.54
10:Y:179:ILE:HD12	10:Y:185:SER:OG	2.07	0.54
3:A:423:HIS:CD2	3:A:425:SER:N	2.72	0.54
3:A:431:CYS:N	3:A:446:SER:HB2	2.09	0.54
3:A:566:LEU:HD11	3:A:715:THR:C	2.31	0.54
3:A:705:SER:HA	3:A:871:MET:HE1	1.86	0.54
3:A:708:LEU:CD2	3:A:846:ILE:CD1	2.61	0.54
3:A:727:ARG:CD	6:E:263:ASP:OD2	2.56	0.54
3:A:759:ILE:CG2	3:A:760:GLY:N	2.71	0.54
3:A:897:GLN:NE2	3:A:897:GLN:N	2.55	0.54
4:B:225:MET:C	4:B:232:LEU:HB3	2.32	0.54
4:B:245:GLY:O	4:B:260:ARG:HD2	2.07	0.54
4:B:299:TYR:CZ	4:B:1139:LYS:CG	2.91	0.54
4:B:504:VAL:HG22	4:B:510:LEU:HD11	1.88	0.54
4:B:596:TYR:HD1	4:B:629:LEU:HD22	1.66	0.54
4:B:792:ARG:CZ	4:B:792:ARG:HA	2.38	0.54
4:B:1134:ILE:CG2	4:B:1135:ASP:H	1.87	0.54
5:D:76:LEU:H	5:D:76:LEU:HD12	1.72	0.54
5:D:176:VAL:HA	5:D:198:VAL:HA	1.90	0.54
6:E:80:ARG:HE	8:G:346:GLY:H	1.55	0.54
6:E:121:ILE:HB	6:E:122:PRO:HD3	1.88	0.54
6:E:255:ASP:O	6:E:255:ASP:OD1	2.24	0.54
6:E:358:GLY:HA3	6:E:379:MET:HE3	1.85	0.54
8:G:115:ARG:C	8:G:119:ARG:CZ	2.80	0.54
8:G:354:ILE:HA	8:G:357:ILE:HB	1.90	0.54
8:G:373:LEU:O	8:G:377:ARG:NE	2.38	0.54
9:S:4:GLU:OE1	9:S:27:VAL:CG2	2.55	0.54
9:S:104:TYR:CG	9:S:245:SER:HB3	2.42	0.54
9:S:164:ASP:OD2	9:S:273:THR:OG1	2.24	0.54
9:T:97:ILE:HD11	9:T:163:TYR:OH	2.07	0.54
9:T:166:PRO:HB3	9:T:261:LEU:O	2.07	0.54
9:T:261:LEU:HB3	9:T:272:LEU:HD13	1.89	0.54
9:U:302:PRO:HB2	9:U:303:PRO:HD3	1.89	0.54
9:V:15:THR:CB	9:V:20:LYS:HD3	2.34	0.54
9:V:297:VAL:HA	9:V:301:ILE:HG12	1.89	0.54
10:X:46:PHE:CG	10:X:101:LEU:HB2	2.38	0.54
10:X:157:CYS:SG	10:X:170:ILE:HA	2.48	0.54
3:A:44:GLU:O	3:A:48:GLU:OE1	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:47:ILE:HG22	3:A:51:ASN:CG	2.33	0.54
3:A:117:GLY:HA2	3:A:371:VAL:CG2	2.38	0.54
3:A:143:ARG:HG2	3:A:323:ARG:HD2	1.89	0.54
3:A:175:PHE:HA	3:A:176:GLU:OE1	2.07	0.54
3:A:189:LYS:HG3	3:A:192:LYS:NZ	2.23	0.54
3:A:488:LEU:HD23	3:A:488:LEU:O	2.08	0.54
3:A:506:PRO:HG2	3:A:507:GLN:H	1.72	0.54
3:A:900:GLU:C	3:A:902:LEU:N	2.57	0.54
3:A:1052:LEU:HB3	8:G:313:VAL:HG11	1.88	0.54
4:B:544:VAL:HG23	4:B:766:ILE:HG21	1.90	0.54
4:B:596:TYR:CE2	4:B:746:VAL:HB	2.43	0.54
4:B:1033:GLY:HA3	4:B:1054:SER:H	1.71	0.54
5:D:45:LEU:HD12	5:D:45:LEU:C	2.32	0.54
5:D:51:THR:CB	5:D:144:ARG:HG3	2.38	0.54
6:E:191:GLU:HA	6:E:194:LEU:HD21	1.89	0.54
6:E:224:LEU:N	6:E:224:LEU:HD22	2.21	0.54
6:E:237:THR:HG23	6:E:238:GLY:C	2.32	0.54
6:E:331:LEU:O	6:E:332:LYS:C	2.45	0.54
6:E:333:SER:N	6:E:336:ASP:HB2	2.23	0.54
6:E:399:ASN:O	6:E:404:ALA:HB2	2.08	0.54
8:G:205:LYS:C	8:G:207:SER:H	2.16	0.54
8:G:345:ASP:C	8:G:347:ARG:N	2.64	0.54
9:S:18:PHE:HB2	9:S:29:GLN:OE1	2.07	0.54
9:S:135:LEU:O	9:S:138:GLY:N	2.39	0.54
9:S:154:GLY:HA3	9:T:51:THR:HB	1.89	0.54
9:S:169:LEU:CG	9:S:170:LEU:N	2.70	0.54
9:S:185:TRP:CD1	9:S:213:LEU:HD12	2.43	0.54
9:T:156:ASP:O	9:T:282:GLN:HB3	2.07	0.54
9:T:200:TYR:C	9:T:203:GLN:HB3	2.33	0.54
9:U:94:ILE:HG21	9:U:293:PHE:CG	2.42	0.54
9:U:186:SER:HA	9:U:189:VAL:HG21	1.90	0.54
9:U:197:LYS:HG3	9:U:200:TYR:CE1	2.43	0.54
9:V:112:PHE:HB2	9:V:292:HIS:NE2	2.22	0.54
9:V:183:VAL:N	9:V:184:PRO:CD	2.70	0.54
9:V:241:LEU:CD2	9:V:261:LEU:HD23	2.37	0.54
10:Y:82:THR:N	10:Y:86:SER:OG	2.40	0.54
10:Y:179:ILE:HD13	10:Y:189:THR:C	2.25	0.54
1:1:50:DA:H2"	1:1:51:DT:C5	2.33	0.54
3:A:59:TYR:N	3:A:352:THR:OG1	2.41	0.54
3:A:91:TYR:O	3:A:92:ALA:HB2	2.08	0.54
3:A:142:VAL:O	3:A:324:ARG:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:483:ASP:OD1	3:A:483:ASP:O	2.26	0.54
3:A:546:GLU:OE1	3:A:920:ASP:CG	2.50	0.54
3:A:597:ASP:N	3:A:615:PRO:HA	2.22	0.54
3:A:644:ARG:CZ	3:A:721:LYS:HB3	2.38	0.54
3:A:684:GLN:CD	3:A:684:GLN:N	2.66	0.54
3:A:702:ILE:HB	3:A:862:ILE:CG1	2.38	0.54
3:A:948:VAL:O	3:A:957:ILE:HD11	2.08	0.54
4:B:87:GLU:C	4:B:89:GLU:OE1	2.50	0.54
4:B:151:GLN:C	4:B:153:GLU:H	2.09	0.54
4:B:188:LEU:O	4:B:191:ALA:N	2.41	0.54
4:B:222:VAL:HG21	4:B:239:LEU:HD21	1.90	0.54
4:B:359:LEU:CG	4:B:386:ILE:CD1	2.86	0.54
4:B:388:GLU:HG2	4:B:399:PRO:HB2	1.90	0.54
4:B:491:PRO:HD2	4:B:876:ILE:HG21	1.89	0.54
4:B:561:ASN:OD1	4:B:561:ASN:N	2.38	0.54
4:B:561:ASN:ND2	4:B:563:LEU:HG	2.23	0.54
4:B:693:MET:CA	4:B:736:LEU:H	2.20	0.54
4:B:937:SER:HB2	4:B:971:PRO:HD2	1.89	0.54
5:D:91:SER:O	5:D:93:GLN:HG2	2.07	0.54
5:D:182:GLU:HA	5:D:192:ASP:OD1	2.07	0.54
6:E:19:PRO:HG3	6:E:247:THR:HG21	1.88	0.54
6:E:484:GLN:C	6:E:488:ARG:HG3	2.32	0.54
6:E:537:SER:CA	6:E:558:VAL:CG1	2.86	0.54
8:G:329:LEU:HA	8:G:375:LYS:CE	2.37	0.54
9:S:1:MET:O	9:S:1:MET:HG3	2.07	0.54
9:S:232:VAL:CG1	9:S:238:LEU:HD22	2.38	0.54
9:S:247:LEU:O	9:S:247:LEU:HG	2.06	0.54
9:U:128:SER:O	9:U:132:LEU:HB2	2.08	0.54
9:V:71:CYS:HA	9:V:74:TRP:HD1	1.73	0.54
9:V:111:LYS:HD2	9:V:300:ASN:ND2	2.23	0.54
9:V:185:TRP:HB2	9:V:266:LEU:CD2	2.31	0.54
10:X:87:ASP:O	10:X:89:PHE:HD1	1.89	0.54
10:Y:173:LYS:HA	10:Y:208:LYS:CG	2.38	0.54
3:A:41:PHE:CD2	3:A:42:LEU:N	2.76	0.54
3:A:47:ILE:HA	3:A:50:LEU:CD1	2.36	0.54
3:A:50:LEU:HD12	3:A:51:ASN:H	1.70	0.54
3:A:151:SER:OG	3:A:152:GLU:N	2.41	0.54
3:A:280:LYS:CG	3:A:281:LEU:HD22	2.31	0.54
3:A:297:ILE:O	3:A:298:LEU:C	2.50	0.54
3:A:368:LYS:N	3:A:369:PRO:HD2	2.22	0.54
3:A:409:GLY:C	3:A:410:LEU:HG	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:579:GLU:N	3:A:579:GLU:CD	2.60	0.54
3:A:590:ILE:HG21	3:A:637:TYR:HE2	1.73	0.54
3:A:665:ALA:O	3:A:667:GLN:HG2	2.07	0.54
3:A:687:VAL:CG2	3:A:880:VAL:HG23	2.37	0.54
3:A:688:VAL:N	3:A:975:GLY:O	2.41	0.54
3:A:691:MET:HE1	4:B:49:VAL:H	1.72	0.54
3:A:1031:ALA:O	3:A:1033:THR:N	2.41	0.54
4:B:157:LEU:HD23	4:B:174:ILE:CG1	2.28	0.54
4:B:168:THR:HG23	4:B:170:THR:OG1	2.08	0.54
4:B:183:LEU:HB3	4:B:184:VAL:HG13	1.90	0.54
4:B:461:GLU:CD	4:B:476:ARG:HH21	2.15	0.54
4:B:478:GLY:C	4:B:479:LEU:HD12	2.33	0.54
4:B:586:GLN:NE2	4:B:798:GLU:OE1	2.34	0.54
4:B:621:TYR:HD2	4:B:773:ARG:HG3	1.69	0.54
4:B:829:ARG:HB2	4:B:831:GLN:HE21	1.73	0.54
4:B:919:GLY:HA2	4:B:941:VAL:HA	1.89	0.54
4:B:1013:ARG:C	4:B:1014:ILE:HG13	2.33	0.54
4:B:1159:ASP:OD1	4:B:1188:ALA:HA	2.07	0.54
4:B:1235:LEU:CD1	4:B:1236:LYS:CG	2.82	0.54
5:C:9:VAL:HG21	5:C:24:ILE:HG13	1.90	0.54
5:C:52:ALA:HB3	5:C:170:PHE:CD1	2.43	0.54
5:D:81:ARG:NE	5:D:126:TYR:HE2	2.05	0.54
6:E:30:LEU:O	6:E:30:LEU:HG	2.03	0.54
6:E:460:VAL:O	6:E:460:VAL:HG13	2.07	0.54
6:E:486:GLU:HA	6:E:490:LEU:HD23	1.89	0.54
6:E:523:GLU:HA	6:E:553:HIS:CB	2.38	0.54
8:G:87:GLN:C	8:G:88:GLU:OE1	2.50	0.54
8:G:245:THR:O	8:G:246:THR:C	2.50	0.54
9:T:45:LEU:HD23	9:T:45:LEU:O	2.08	0.54
9:T:142:LEU:HD23	9:T:285:LEU:CD1	2.35	0.54
9:U:105:LEU:N	9:U:106:PRO:HD2	2.22	0.54
9:U:111:LYS:HZ2	9:U:292:HIS:CD2	2.24	0.54
9:U:284:ARG:HD2	9:U:290:ILE:HD13	1.89	0.54
9:U:289:PRO:HB2	9:U:290:ILE:CD1	2.37	0.54
9:U:296:LEU:CD1	9:U:300:ASN:CG	2.80	0.54
10:X:182:ALA:C	10:X:183:ILE:HG12	2.21	0.54
3:A:39:ARG:O	3:A:41:PHE:N	2.39	0.54
3:A:59:TYR:CZ	3:A:348:ARG:HG3	2.43	0.54
3:A:767:ASP:O	3:A:806:VAL:N	2.41	0.54
3:A:905:TRP:NE1	3:A:909:THR:HG21	2.15	0.54
3:A:929:ARG:NE	3:A:933:HIS:HE1	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:46:ARG:HG3	4:B:46:ARG:NH1	2.22	0.54
4:B:57:MET:HG3	4:B:58:VAL:H	1.72	0.54
4:B:361:ARG:HA	4:B:391:LYS:HD2	1.90	0.54
4:B:483:LEU:HD21	4:B:939:GLN:HB2	1.88	0.54
4:B:490:LEU:HA	4:B:876:ILE:HD12	1.88	0.54
4:B:766:ILE:HG12	4:B:799:ILE:CG2	2.37	0.54
4:B:966:ILE:O	4:B:966:ILE:HG23	2.07	0.54
5:C:6:ILE:HB	5:D:224:LEU:HD11	1.89	0.54
5:C:56:VAL:HG11	5:C:79:ILE:CD1	2.38	0.54
5:D:103:GLY:O	5:D:105:THR:OG1	2.18	0.54
6:E:259:MET:HA	6:E:269:THR:HA	1.89	0.54
6:E:426:HIS:CD2	7:F:56:LYS:NZ	2.76	0.54
7:F:34:GLN:C	7:F:37:ASN:H	2.13	0.54
8:G:111:LEU:CB	8:G:115:ARG:HE	2.21	0.54
8:G:121:SER:HA	8:G:127:ASP:H	1.70	0.54
9:S:10:LEU:HD11	9:S:64:LEU:HB3	1.90	0.54
9:S:64:LEU:HD22	9:S:68:ARG:HH11	1.73	0.54
9:S:112:PHE:CB	9:S:293:PHE:HE1	2.16	0.54
9:S:161:VAL:HG21	9:S:275:ARG:HD3	1.90	0.54
9:T:156:ASP:O	9:T:282:GLN:CB	2.56	0.54
9:T:170:LEU:CB	9:T:233:VAL:HG22	2.38	0.54
9:U:108:VAL:CG1	9:U:301:ILE:CG2	2.81	0.54
9:U:296:LEU:HD13	9:U:300:ASN:ND2	2.22	0.54
3:A:46:LEU:HG	3:A:47:ILE:HD13	1.90	0.54
3:A:56:ILE:HG22	3:A:57:THR:N	2.23	0.54
3:A:150:LYS:O	3:A:152:GLU:OE1	2.26	0.54
3:A:194:SER:HB2	3:A:237:GLU:CD	2.33	0.54
3:A:305:ILE:HA	3:A:308:GLU:HB3	1.89	0.54
3:A:356:ALA:HA	3:A:359:LEU:HD13	1.88	0.54
3:A:402:LEU:O	3:A:444:ILE:HA	2.08	0.54
3:A:462:PRO:HB3	3:A:478:ALA:O	2.08	0.54
3:A:675:THR:OG1	3:A:679:GLU:CD	2.49	0.54
3:A:1044:ASP:OD1	3:A:1046:GLN:CD	2.51	0.54
3:A:1047:GLY:O	3:A:1050:GLU:HB3	2.08	0.54
4:B:514:LYS:C	4:B:873:ARG:HG2	2.32	0.54
4:B:546:LEU:HB2	4:B:830:LEU:HB2	1.90	0.54
4:B:794:GLN:CD	4:B:795:LEU:N	2.65	0.54
4:B:1159:ASP:O	4:B:1186:ALA:HB3	2.08	0.54
5:C:73:GLU:OE1	5:C:129:THR:HB	2.08	0.54
5:C:98:ARG:O	5:C:99:LEU:HB2	2.06	0.54
5:C:204:ILE:CG2	5:C:208:GLU:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:184:ARG:O	5:D:191:LYS:HB2	2.08	0.54
5:D:216:ILE:O	5:D:219:ASP:OD1	2.25	0.54
6:E:287:ALA:HA	6:E:290:GLN:NE2	2.22	0.54
6:E:377:ARG:HA	6:E:380:ALA:CB	2.38	0.54
6:E:447:ILE:HG21	6:E:449:VAL:HG23	1.81	0.54
8:G:83:ARG:O	8:G:84:LEU:C	2.49	0.54
9:S:88:LYS:HB2	9:S:91:GLU:CG	2.38	0.54
9:S:165:GLU:HB2	9:S:244:SER:HB3	1.90	0.54
9:S:266:LEU:N	9:S:267:PRO:HD2	2.23	0.54
9:S:283:ASP:HB2	9:T:48:PHE:CD2	2.43	0.54
9:T:33:SER:O	9:T:50:ARG:NE	2.40	0.54
9:T:183:VAL:CG1	9:T:187:GLU:HB2	2.38	0.54
9:T:193:GLN:OE1	9:T:239:ILE:HB	2.08	0.54
9:T:209:LYS:HD2	9:T:273:THR:H	1.73	0.54
9:U:157:MET:C	9:U:295:GLN:OE1	2.51	0.54
9:U:247:LEU:C	9:U:249:GLU:N	2.62	0.54
10:X:65:THR:C	10:X:67:ALA:N	2.66	0.54
10:Y:35:PHE:CA	10:Y:39:ASP:OD2	2.55	0.54
10:Y:98:VAL:HG12	10:Y:100:LEU:HD11	1.90	0.54
10:Y:145:MET:O	10:Y:146:GLY:C	2.51	0.54
3:A:31:ILE:HD13	3:A:399:LYS:HG3	1.90	0.53
3:A:246:GLU:HG3	3:A:247:PRO:O	2.08	0.53
3:A:258:ASP:CG	3:A:259:SER:N	2.66	0.53
3:A:376:GLU:OE1	3:A:380:SER:HB3	2.08	0.53
3:A:452:ARG:NH2	3:A:479:TYR:O	2.41	0.53
3:A:609:ARG:HH11	3:A:609:ARG:HG3	1.71	0.53
3:A:913:ARG:NE	3:A:915:LYS:HE2	2.22	0.53
4:B:169:VAL:O	4:B:170:THR:C	2.49	0.53
4:B:235:LEU:HD13	4:B:239:LEU:HG	1.82	0.53
4:B:540:ILE:HD11	4:B:835:LEU:CD1	2.17	0.53
4:B:644:SER:HA	4:B:662:LYS:HZ3	1.74	0.53
4:B:647:LEU:H	4:B:662:LYS:HG2	1.73	0.53
4:B:814:ALA:N	4:B:834:ILE:HD11	2.23	0.53
4:B:1151:LYS:HD2	4:B:1169:GLU:CA	2.38	0.53
4:B:1207:PHE:CD1	6:E:14:ILE:HG12	2.43	0.53
5:C:24:ILE:HG22	5:C:26:GLU:H	1.72	0.53
5:C:64:GLU:C	5:C:65:PHE:CD1	2.86	0.53
5:D:98:ARG:C	5:D:113:ASP:OD2	2.50	0.53
5:D:108:THR:O	5:D:109:ALA:C	2.49	0.53
5:D:145:GLY:C	5:D:170:PHE:CE2	2.84	0.53
6:E:194:LEU:HD12	6:E:194:LEU:C	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:415:VAL:CG1	6:E:416:TRP:CD1	2.89	0.53
6:E:443:ALA:O	6:E:493:ALA:N	2.41	0.53
6:E:561:ASP:OD2	6:E:604:GLN:HG2	2.08	0.53
8:G:176:ARG:HG2	8:G:183:LEU:HD11	1.89	0.53
8:G:352:GLU:N	8:G:352:GLU:OE1	2.38	0.53
9:S:84:LEU:HB2	9:S:89:GLN:HB3	1.89	0.53
9:S:105:LEU:HB2	9:S:108:VAL:HG11	1.91	0.53
9:S:226:LEU:CD2	9:U:227:ASP:CG	2.80	0.53
9:T:144:ILE:CB	9:T:162:LEU:CD1	2.86	0.53
9:T:149:ARG:O	9:T:150:PHE:HB2	2.07	0.53
9:U:56:LEU:HD12	9:U:57:THR:H	1.73	0.53
9:V:127:GLY:C	9:V:201:GLY:H	2.16	0.53
9:V:167:ILE:O	9:V:241:LEU:HD22	2.07	0.53
10:X:46:PHE:HB3	10:X:101:LEU:CB	2.38	0.53
10:X:46:PHE:HB2	10:X:101:LEU:CD1	2.37	0.53
10:Y:171:ASP:O	10:Y:172:LEU:HD23	2.08	0.53
2:2:79:DA:OP2	9:S:33:SER:OG	2.24	0.53
3:A:93:VAL:O	3:A:93:VAL:HG13	2.08	0.53
3:A:449:THR:HG21	3:A:535:VAL:CG1	2.38	0.53
3:A:490:VAL:H	3:A:511:ARG:C	2.16	0.53
3:A:546:GLU:CD	3:A:547:HIS:NE2	2.66	0.53
3:A:702:ILE:HG21	3:A:852:MET:HE3	1.90	0.53
3:A:723:GLU:CB	3:A:837:ARG:HA	2.38	0.53
3:A:723:GLU:HB3	3:A:837:ARG:HB2	1.90	0.53
3:A:738:ARG:NH2	3:A:753:GLU:OE2	2.40	0.53
3:A:776:LYS:HG3	3:A:800:ARG:NE	2.11	0.53
4:B:24:TYR:O	4:B:25:GLY:C	2.51	0.53
4:B:201:VAL:O	4:B:205:GLN:HB3	2.08	0.53
4:B:247:ASP:HB3	4:B:257:ILE:O	2.09	0.53
4:B:541:THR:HB	4:B:764:ARG:HH21	1.72	0.53
4:B:597:ARG:CG	4:B:788:VAL:HG23	2.37	0.53
4:B:942:GLY:O	4:B:965:THR:N	2.34	0.53
5:C:91:SER:O	5:C:93:GLN:HG2	2.08	0.53
5:D:40:LEU:CA	5:D:43:VAL:HB	2.22	0.53
5:D:73:GLU:OE1	5:D:129:THR:HB	2.08	0.53
6:E:36:VAL:HG22	6:E:62:ILE:HG22	1.86	0.53
6:E:138:GLN:O	6:E:142:PHE:HA	2.08	0.53
6:E:277:ARG:NH2	8:G:227:ARG:O	2.42	0.53
6:E:371:HIS:NE2	6:E:494:SER:HB2	2.20	0.53
6:E:412:ASP:HB2	6:E:413:PRO:CD	2.37	0.53
6:E:509:PRO:HB2	6:E:513:MET:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:611:GLY:HA2	6:E:614:ILE:HD12	1.89	0.53
7:F:32:THR:C	7:F:35:VAL:HG22	2.33	0.53
8:G:119:ARG:C	8:G:122:GLU:HG2	2.32	0.53
8:G:388:TYR:HB3	8:G:390:ARG:HG2	1.91	0.53
9:S:232:VAL:HG21	9:U:114:ARG:N	2.23	0.53
9:T:56:LEU:HD12	9:T:57:THR:H	1.73	0.53
9:U:147:ASN:HA	9:U:151:LEU:HD11	1.90	0.53
10:Y:110:GLN:HA	10:Y:114:GLU:CG	2.39	0.53
10:Y:133:THR:O	10:Y:137:ILE:HG13	2.09	0.53
1:1:25:DT:H2"	1:1:26:DA:C8	2.44	0.53
3:A:246:GLU:HB2	3:A:247:PRO:CD	2.38	0.53
3:A:498:ASP:OD2	3:A:502:TYR:HB2	2.08	0.53
3:A:693:TRP:CZ3	3:A:872:PRO:HD3	2.43	0.53
3:A:713:ILE:HG22	3:A:714:TYR:CD1	2.43	0.53
3:A:765:ALA:O	3:A:767:ASP:N	2.41	0.53
3:A:998:TYR:CD2	3:A:1003:GLN:NE2	2.73	0.53
3:A:1007:GLY:HA2	3:A:1014:GLY:H	1.74	0.53
4:B:49:VAL:O	4:B:49:VAL:HG13	2.07	0.53
4:B:257:ILE:O	4:B:258:ALA:C	2.52	0.53
4:B:524:ARG:HB2	4:B:538:GLU:OE2	2.08	0.53
4:B:1038:VAL:HG13	4:B:1039:VAL:N	2.24	0.53
4:B:1151:LYS:HB3	4:B:1168:VAL:O	2.08	0.53
4:B:1241:ILE:HG22	4:B:1242:GLY:N	2.23	0.53
5:C:198:VAL:C	5:C:199:TRP:CD1	2.85	0.53
5:D:90:TYR:O	5:D:92:SER:N	2.42	0.53
6:E:43:GLU:HB3	6:E:56:GLY:HA2	1.89	0.53
6:E:78:ARG:HG3	8:G:346:GLY:CA	2.37	0.53
8:G:246:THR:O	8:G:250:SER:N	2.41	0.53
9:S:128:SER:CB	9:S:145:VAL:CG1	2.85	0.53
9:S:167:ILE:HD11	9:S:241:LEU:CD2	2.38	0.53
9:S:196:PHE:HD2	9:S:203:GLN:HG2	1.73	0.53
9:U:160:GLU:HG2	9:U:298:ARG:CB	2.39	0.53
9:V:1:MET:O	9:V:1:MET:HG3	2.07	0.53
9:V:18:PHE:HB3	9:V:30:SER:OG	2.07	0.53
9:V:224:ASN:OD1	9:V:225:THR:N	2.41	0.53
9:V:280:THR:CG2	9:V:283:ASP:OD2	2.29	0.53
10:X:168:ILE:HG22	10:X:168:ILE:O	2.07	0.53
10:Y:77:VAL:CG2	10:Y:129:ARG:NH2	2.72	0.53
3:A:114:VAL:CG1	3:A:365:VAL:HG11	2.38	0.53
3:A:162:SER:CB	3:A:176:GLU:HA	2.38	0.53
3:A:236:MET:C	3:A:238:LEU:H	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:452:ARG:NH2	3:A:460:GLU:CD	2.65	0.53
4:B:3:PHE:CE2	6:E:616:ASN:HB2	2.44	0.53
4:B:85:ILE:O	4:B:85:ILE:HG13	2.07	0.53
4:B:86:THR:HG23	4:B:89:GLU:HG2	1.88	0.53
4:B:99:ASN:OD1	4:B:146:LEU:HB3	2.08	0.53
4:B:318:ILE:HG21	6:E:438:ARG:HH12	1.73	0.53
4:B:678:ASN:ND2	4:B:682:ARG:HH21	2.06	0.53
4:B:710:PRO:HG3	4:B:722:LEU:N	2.24	0.53
4:B:853:THR:HA	4:B:876:ILE:HA	1.90	0.53
5:C:33:GLY:O	5:C:36:VAL:HB	2.09	0.53
5:C:54:THR:O	5:C:165:GLN:HA	2.08	0.53
5:D:64:GLU:C	5:D:65:PHE:CD1	2.86	0.53
6:E:45:ILE:HB	6:E:51:LYS:O	2.07	0.53
6:E:359:ARG:HA	6:E:474:ALA:HA	1.89	0.53
6:E:402:LYS:O	6:E:402:LYS:HG3	2.09	0.53
7:F:58:VAL:O	7:F:59:LEU:C	2.49	0.53
8:G:194:ALA:O	8:G:197:LYS:N	2.42	0.53
8:G:299:GLY:H	8:G:301:PHE:HB2	1.72	0.53
9:S:175:HIS:HB3	9:S:178:ALA:N	2.24	0.53
9:T:30:SER:HB2	9:T:33:SER:OG	2.09	0.53
9:T:155:ARG:C	9:T:294:TRP:HD1	2.17	0.53
9:T:183:VAL:CG1	9:T:187:GLU:OE1	2.57	0.53
9:U:126:LEU:HA	9:U:130:ARG:HD2	1.89	0.53
9:U:284:ARG:HD2	9:U:287:ILE:HD11	1.89	0.53
9:V:206:VAL:CA	9:V:209:LYS:HD3	2.35	0.53
10:Y:166:ASP:O	10:Y:213:HIS:N	2.41	0.53
10:Y:215:PRO:O	10:Y:219:SER:N	2.41	0.53
1:1:18:DA:N1	1:1:19:DA:C2	2.77	0.53
2:2:81:DG:N7	9:S:34:ARG:NH1	2.57	0.53
3:A:103:ASN:HD22	3:A:105:GLU:CD	2.03	0.53
3:A:184:TRP:CE3	3:A:195:ALA:CB	2.92	0.53
3:A:192:LYS:O	3:A:192:LYS:HG3	2.09	0.53
3:A:393:LEU:HD21	3:A:537:VAL:HG23	1.91	0.53
3:A:503:ILE:O	3:A:504:ILE:C	2.51	0.53
3:A:552:ARG:HG2	3:A:894:ASN:HB3	1.91	0.53
3:A:593:ARG:CZ	3:A:635:ILE:HG23	2.38	0.53
3:A:737:THR:OG1	3:A:739:GLU:O	2.22	0.53
3:A:745:GLU:HA	3:A:748:LEU:H	1.73	0.53
3:A:769:LEU:HD12	3:A:804:LEU:C	2.33	0.53
3:A:841:ALA:C	3:A:842:GLN:OE1	2.51	0.53
3:A:993:ARG:NE	3:A:1012:GLN:HB3	2.14	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:54:ASP:OD1	4:B:55:ASP:N	2.42	0.53
4:B:165:GLU:N	4:B:165:GLU:CD	2.67	0.53
4:B:165:GLU:CG	4:B:166:GLY:N	2.71	0.53
4:B:561:ASN:HD22	4:B:563:LEU:HG	1.73	0.53
4:B:1051:VAL:HB	4:B:1060:ASP:O	2.09	0.53
4:B:1230:ASP:HB2	6:E:12:VAL:HG23	1.90	0.53
5:C:90:TYR:O	5:C:92:SER:N	2.42	0.53
6:E:362:ILE:CD1	6:E:454:ILE:HB	2.38	0.53
6:E:377:ARG:HG3	6:E:450:GLU:HA	1.89	0.53
6:E:434:PRO:HG2	6:E:436:LEU:HD21	1.91	0.53
6:E:442:GLN:HA	6:E:491:MET:HE3	1.91	0.53
8:G:83:ARG:O	8:G:86:LEU:HB3	2.08	0.53
8:G:115:ARG:HB3	8:G:119:ARG:CZ	2.38	0.53
8:G:119:ARG:O	8:G:123:LYS:HG2	2.08	0.53
8:G:329:LEU:CB	8:G:375:LYS:CE	2.86	0.53
9:S:135:LEU:HD23	9:S:150:PHE:CD2	2.43	0.53
9:S:155:ARG:NH2	9:S:158:VAL:HG22	2.18	0.53
9:S:185:TRP:CE2	9:S:209:LYS:O	2.61	0.53
9:S:224:ASN:OD1	9:U:124:THR:CG2	2.57	0.53
9:T:47:LEU:CB	9:T:57:THR:HB	2.34	0.53
9:T:182:ARG:HA	9:T:261:LEU:CD1	2.36	0.53
9:T:220:ALA:CA	9:V:120:GLN:HA	2.32	0.53
9:U:247:LEU:O	9:U:248:VAL:C	2.52	0.53
9:V:147:ASN:ND2	9:V:151:LEU:HD23	2.23	0.53
10:X:101:LEU:CD2	10:X:102:SER:N	2.69	0.53
1:1:23:DC:H41	9:U:34:ARG:NH2	1.89	0.53
3:A:465:PRO:HA	3:A:525:ASP:O	2.09	0.53
3:A:522:GLU:CB	3:A:523:GLN:OE1	2.57	0.53
3:A:581:GLN:CG	3:A:582:GLY:H	2.20	0.53
3:A:830:PRO:O	3:A:832:ALA:N	2.42	0.53
3:A:846:ILE:CG2	3:A:981:LYS:HD3	2.38	0.53
3:A:1004:GLN:NE2	3:A:1042:SER:O	2.39	0.53
3:A:1017:PHE:CZ	3:A:1018:GLY:C	2.87	0.53
3:A:1055:ILE:HD11	6:E:387:PHE:HZ	1.65	0.53
3:A:1084:ILE:O	3:A:1086:VAL:HG22	2.08	0.53
3:A:1100:VAL:CG2	6:E:101:HIS:NE2	2.72	0.53
4:B:33:ALA:HA	4:B:36:LEU:HD11	1.89	0.53
4:B:62:LYS:NZ	4:B:143:MET:HG3	2.23	0.53
4:B:126:ALA:C	4:B:128:SER:N	2.62	0.53
4:B:242:ARG:CA	4:B:300:GLY:HA3	2.27	0.53
4:B:358:LYS:HD2	4:B:391:LYS:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:359:LEU:HD21	4:B:384:ILE:CG2	2.38	0.53
4:B:632:ILE:HG12	4:B:741:VAL:HG22	1.89	0.53
4:B:849:THR:HG21	4:B:895:ARG:HH22	1.73	0.53
4:B:892:GLU:O	4:B:893:ALA:C	2.52	0.53
4:B:1235:LEU:CD1	4:B:1236:LYS:N	2.65	0.53
5:C:10:GLU:OE2	5:C:11:SER:N	2.42	0.53
5:C:51:THR:HG21	5:C:89:SER:H	1.73	0.53
5:C:64:GLU:CG	5:C:164:LEU:CD2	2.62	0.53
5:C:92:SER:O	5:C:93:GLN:CD	2.52	0.53
5:D:92:SER:O	5:D:93:GLN:CD	2.52	0.53
6:E:95:GLU:C	6:E:97:ARG:H	2.17	0.53
6:E:296:GLU:CG	6:E:300:ARG:HD2	2.34	0.53
6:E:324:VAL:HB	6:E:328:ASN:HA	1.90	0.53
6:E:380:ALA:O	6:E:419:LEU:HD11	2.08	0.53
6:E:462:PRO:O	6:E:465:ASN:N	2.41	0.53
6:E:481:LEU:HD23	6:E:481:LEU:H	1.72	0.53
8:G:110:LEU:O	8:G:114:GLU:HG3	2.09	0.53
8:G:119:ARG:C	8:G:120:LEU:HD23	2.34	0.53
8:G:270:ILE:O	8:G:273:LEU:CA	2.57	0.53
8:G:319:ARG:NH2	8:G:344:ASP:CA	2.54	0.53
8:G:372:ALA:HA	8:G:375:LYS:HB2	1.89	0.53
9:S:4:GLU:HA	9:S:25:CYS:SG	2.49	0.53
9:S:10:LEU:HG	9:S:60:GLY:CA	2.39	0.53
9:S:71:CYS:HA	9:S:74:TRP:HD1	1.73	0.53
9:T:195:VAL:HG11	9:T:202:MET:SD	2.48	0.53
9:T:201:GLY:O	9:T:205:LEU:CD2	2.52	0.53
9:T:205:LEU:CD1	9:T:274:ARG:HD2	2.36	0.53
9:T:217:LEU:HG	9:T:218:GLN:N	2.22	0.53
9:T:244:SER:C	9:T:246:ALA:N	2.65	0.53
9:U:40:GLU:CD	9:U:48:PHE:CD1	2.87	0.53
9:U:143:ALA:CA	9:U:293:PHE:HE2	2.22	0.53
9:U:247:LEU:HD12	9:U:247:LEU:C	2.33	0.53
9:V:168:GLU:HG3	9:V:244:SER:HB2	1.89	0.53
9:V:168:GLU:CB	9:V:260:PRO:HA	2.38	0.53
9:V:185:TRP:HB2	9:V:266:LEU:HA	1.91	0.53
10:X:82:THR:N	10:X:86:SER:OG	2.40	0.53
10:X:171:ASP:O	10:X:172:LEU:HD23	2.08	0.53
10:Y:134:GLU:HA	10:Y:137:ILE:HB	1.90	0.53
1:1:61:DT:O4	2:2:65:DA:N1	2.42	0.53
1:1:113:DT:H71	3:A:414:ARG:CZ	2.37	0.53
3:A:58:ASP:CG	3:A:60:THR:OG1	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:64:GLU:HG2	3:A:103:ASN:HA	1.91	0.53
3:A:95:MET:HG3	3:A:96:TYR:N	2.23	0.53
3:A:163:ALA:HB3	3:A:175:PHE:CB	2.21	0.53
3:A:168:ASN:O	3:A:169:ARG:HG3	2.09	0.53
3:A:173:LEU:HD21	3:A:187:ILE:HD12	1.90	0.53
3:A:256:LEU:CB	3:A:257:LEU:HG	2.37	0.53
3:A:258:ASP:C	3:A:263:ASP:OD2	2.51	0.53
3:A:296:ASP:CG	3:A:297:ILE:N	2.63	0.53
3:A:443:LEU:H	3:A:444:ILE:HD12	1.72	0.53
3:A:756:ILE:HG13	3:A:757:ILE:N	2.23	0.53
3:A:899:PHE:O	3:A:900:GLU:C	2.44	0.53
3:A:1017:PHE:CB	6:E:353:ARG:HA	2.37	0.53
3:A:1036:GLU:O	3:A:1038:LEU:C	2.52	0.53
4:B:357:ILE:N	4:B:410:ILE:HG22	2.24	0.53
4:B:603:PHE:H	4:B:632:ILE:N	2.06	0.53
4:B:669:SER:O	4:B:669:SER:OG	2.16	0.53
4:B:896:ARG:CG	4:B:987:LEU:N	2.71	0.53
4:B:944:LYS:CE	4:B:962:TYR:HE1	2.21	0.53
4:B:1224:ALA:O	4:B:1225:ILE:C	2.48	0.53
5:C:56:VAL:H	5:C:57:ARG:NH2	2.04	0.53
5:C:73:GLU:HG2	5:C:78:ILE:HD11	1.90	0.53
5:D:10:GLU:OE2	5:D:11:SER:N	2.42	0.53
6:E:75:LYS:C	6:E:76:TYR:HD1	2.16	0.53
6:E:432:ARG:NH1	6:E:465:ASN:C	2.67	0.53
6:E:457:HIS:CG	6:E:458:PRO:CD	2.91	0.53
6:E:534:TYR:O	6:E:535:PHE:CG	2.62	0.53
8:G:84:LEU:N	8:G:84:LEU:HD23	2.19	0.53
8:G:193:ARG:HA	8:G:193:ARG:HE	1.74	0.53
9:S:126:LEU:HB2	9:S:131:ALA:CA	2.38	0.53
9:S:134:VAL:HB	9:S:139:LEU:CB	2.35	0.53
9:T:282:GLN:O	9:T:284:ARG:N	2.41	0.53
9:U:31:THR:CA	9:U:34:ARG:HH11	2.20	0.53
9:U:62:ARG:NH1	9:V:284:ARG:HB3	2.23	0.53
9:U:66:ARG:HB2	9:V:73:GLU:CG	2.39	0.53
9:U:284:ARG:CG	9:U:290:ILE:HB	2.39	0.53
9:V:3:LEU:HD12	9:V:4:GLU:CA	2.39	0.53
9:V:184:PRO:HG2	9:V:187:GLU:H	1.73	0.53
9:V:209:LYS:CE	9:V:241:LEU:HD11	2.39	0.53
1:1:58:DA:H2"	1:1:59:DT:C7	2.39	0.53
3:A:251:LEU:O	3:A:252:GLY:C	2.51	0.53
3:A:425:SER:HG	3:A:426:HIS:N	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:592:SER:OG	3:A:666:GLY:N	2.40	0.53
3:A:741:PRO:C	3:A:743:VAL:N	2.59	0.53
3:A:929:ARG:HE	3:A:933:HIS:CE1	2.27	0.53
3:A:993:ARG:CZ	3:A:1012:GLN:CB	2.77	0.53
4:B:171:GLU:HA	4:B:174:ILE:HD12	1.91	0.53
4:B:234:LYS:HE2	4:B:270:LYS:NZ	2.24	0.53
4:B:299:TYR:CA	4:B:1139:LYS:NZ	2.69	0.53
4:B:332:MET:HE3	4:B:1007:ILE:HG12	1.90	0.53
4:B:384:ILE:N	4:B:406:GLN:HA	2.23	0.53
4:B:611:VAL:HG13	4:B:622:GLU:CB	2.39	0.53
4:B:611:VAL:HG13	4:B:622:GLU:HB3	1.91	0.53
4:B:908:LEU:H	4:B:964:VAL:HG23	1.73	0.53
4:B:1095:GLU:O	4:B:1098:PHE:N	2.42	0.53
4:B:1160:THR:OG1	4:B:1188:ALA:HB2	2.08	0.53
5:C:72:ARG:HD2	5:C:129:THR:HG21	0.57	0.53
5:C:98:ARG:C	5:C:113:ASP:OD2	2.50	0.53
5:C:108:THR:O	5:C:109:ALA:C	2.49	0.53
6:E:28:ARG:HE	6:E:102:ARG:HG2	1.74	0.53
6:E:81:HIS:ND1	6:E:82:ARG:N	2.57	0.53
6:E:275:LEU:HD12	6:E:313:LEU:HA	1.90	0.53
6:E:277:ARG:HD2	8:G:228:THR:HG22	1.90	0.53
6:E:481:LEU:HD23	6:E:481:LEU:N	2.24	0.53
6:E:499:SER:C	6:E:501:ALA:H	2.16	0.53
7:F:39:ALA:O	7:F:40:LYS:C	2.52	0.53
8:G:339:LEU:HD13	8:G:343:LEU:O	2.09	0.53
9:S:294:TRP:HA	9:S:297:VAL:HG12	1.91	0.53
9:T:23:SER:O	9:V:152:THR:O	2.26	0.53
9:T:134:VAL:HA	9:T:137:ASP:CG	2.34	0.53
9:T:167:ILE:HG12	9:T:206:VAL:CG2	2.39	0.53
9:T:175:HIS:CG	9:T:177:LEU:HB2	2.44	0.53
9:T:193:GLN:C	9:T:194:VAL:HG23	2.34	0.53
9:T:209:LYS:HB3	9:T:273:THR:H	1.74	0.53
9:T:280:THR:O	9:T:294:TRP:HH2	1.91	0.53
9:U:45:LEU:HB3	9:U:59:GLY:CA	2.38	0.53
9:U:123:VAL:O	9:U:123:VAL:HG13	2.08	0.53
9:U:204:ARG:HB3	9:U:207:GLN:NE2	2.23	0.53
9:U:287:ILE:HD11	9:U:290:ILE:HD13	1.90	0.53
9:V:88:LYS:CD	9:V:91:GLU:HG3	2.39	0.53
9:V:207:GLN:CG	9:V:217:LEU:HD11	2.31	0.53
10:X:155:ILE:O	10:X:156:LEU:HB2	2.08	0.53
2:2:100:DT:C7	9:U:19:GLN:HG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:55:PRO:CB	3:A:66:HIS:CE1	2.91	0.53
3:A:299:ALA:O	3:A:302:ASP:OD1	2.26	0.53
3:A:462:PRO:HB2	3:A:529:VAL:CG2	2.39	0.53
3:A:738:ARG:HA	3:A:755:GLY:HA2	1.91	0.53
3:A:804:LEU:CD2	3:A:804:LEU:N	2.71	0.53
3:A:877:GLY:HA3	5:C:177:ASN:HB2	1.91	0.53
3:A:1004:GLN:NE2	3:A:1042:SER:CA	2.72	0.53
3:A:1053:ASN:O	3:A:1055:ILE:N	2.42	0.53
3:A:1084:ILE:HG13	3:A:1086:VAL:N	2.19	0.53
4:B:95:ILE:O	4:B:96:ASP:C	2.49	0.53
4:B:101:THR:CG2	4:B:420:LYS:HB2	2.39	0.53
4:B:165:GLU:HG2	4:B:166:GLY:N	2.23	0.53
4:B:774:LEU:HD21	4:B:777:LYS:NZ	2.24	0.53
4:B:785:VAL:HG23	4:B:787:GLY:H	1.73	0.53
4:B:1225:ILE:HD11	6:E:124:TYR:CD1	2.42	0.53
4:B:1248:GLY:O	4:B:1249:THR:C	2.52	0.53
5:C:56:VAL:C	5:C:57:ARG:NH2	2.65	0.53
5:D:57:ARG:HG2	5:D:57:ARG:HH11	1.74	0.53
5:D:57:ARG:CG	5:D:139:GLU:HB2	2.38	0.53
5:D:107:ILE:HG13	5:D:128:ALA:HB3	1.91	0.53
6:E:32:ASN:HB3	6:E:34:GLN:HG2	1.91	0.53
6:E:197:LEU:HD12	6:E:245:VAL:HG21	1.91	0.53
7:F:66:SER:HG	7:F:67:ASP:H	1.55	0.53
8:G:85:TYR:HE2	8:G:184:ILE:HD11	1.74	0.53
8:G:116:VAL:O	8:G:120:LEU:HG	2.08	0.53
8:G:125:GLU:OE1	8:G:128:PRO:CB	2.35	0.53
8:G:235:LEU:HD11	8:G:276:ILE:HG13	1.80	0.53
8:G:329:LEU:HD12	8:G:329:LEU:C	2.34	0.53
8:G:333:GLU:HB3	8:G:368:ILE:CG2	2.39	0.53
9:S:195:VAL:HG21	9:S:217:LEU:HG	1.90	0.53
9:S:207:GLN:HA	9:S:217:LEU:HD22	1.90	0.53
9:T:163:TYR:HB3	9:T:245:SER:HB2	1.90	0.53
9:T:185:TRP:C	9:T:213:LEU:HB3	2.33	0.53
9:T:194:VAL:CG1	9:T:195:VAL:N	2.72	0.53
9:T:285:LEU:CD1	9:T:290:ILE:HG22	2.39	0.53
9:U:92:LEU:CD1	9:U:92:LEU:N	2.72	0.53
9:U:185:TRP:HB2	9:U:215:ALA:CB	2.39	0.53
9:V:125:SER:HB2	9:V:200:TYR:HE1	1.73	0.53
10:X:46:PHE:CB	10:X:101:LEU:HB2	2.39	0.53
10:X:58:TYR:O	10:X:61:GLY:N	2.42	0.53
10:X:204:SER:CB	10:X:209:LYS:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:112:DG:H1	3:A:318:ASP:HA	1.74	0.53
3:A:608:VAL:HB	3:A:615:PRO:HB2	1.91	0.53
3:A:642:TYR:CE2	5:C:65:PHE:HD2	2.27	0.53
3:A:734:GLU:HG2	3:A:774:THR:C	2.33	0.53
3:A:772:LYS:N	3:A:803:SER:OG	2.42	0.53
3:A:1007:GLY:CA	3:A:1014:GLY:H	2.22	0.53
3:A:1089:VAL:C	3:A:1091:THR:N	2.66	0.53
4:B:51:ILE:O	4:B:51:ILE:HG13	1.91	0.53
4:B:452:GLU:O	4:B:452:GLU:HG3	2.09	0.53
4:B:520:GLY:H	4:B:865:ILE:HG13	1.72	0.53
5:C:151:VAL:HB	5:C:167:ASP:OD2	2.09	0.53
5:D:112:PHE:HD2	5:D:113:ASP:N	1.90	0.53
5:D:217:LEU:O	5:D:218:VAL:C	2.46	0.53
6:E:305:MET:O	6:E:308:GLU:HG2	2.09	0.53
7:F:37:ASN:ND2	7:F:40:LYS:NZ	2.57	0.53
8:G:228:THR:O	8:G:228:THR:OG1	2.20	0.53
8:G:334:ARG:O	8:G:338:ARG:HB2	2.09	0.53
9:T:150:PHE:HB3	9:T:279:VAL:HB	1.90	0.53
9:T:156:ASP:CA	9:T:291:LYS:HA	2.36	0.53
9:U:221:LEU:HD22	9:U:223:VAL:HG11	1.91	0.53
9:U:296:LEU:HD23	9:U:301:ILE:CG1	2.13	0.53
9:V:209:LYS:HZ1	9:V:241:LEU:HD11	1.72	0.53
9:V:219:ALA:C	9:V:221:LEU:H	2.17	0.53
10:X:49:LYS:HB3	10:X:99:GLU:CG	2.38	0.53
10:Y:26:GLU:HB2	10:Y:100:LEU:HB2	1.91	0.53
1:1:23:DC:H41	9:U:34:ARG:HH12	1.57	0.52
3:A:149:TYR:CE2	3:A:315:ASP:CG	2.87	0.52
3:A:278:ASN:OD1	3:A:278:ASN:N	2.31	0.52
3:A:320:LEU:HD23	3:A:429:ARG:HD2	1.91	0.52
3:A:520:THR:N	3:A:523:GLN:HE22	2.06	0.52
3:A:596:GLY:N	3:A:662:ARG:HH22	2.07	0.52
3:A:932:VAL:O	3:A:934:GLY:N	2.42	0.52
3:A:1043:ASP:C	3:A:1048:ARG:NH2	2.66	0.52
4:B:90:ARG:CB	4:B:372:HIS:HB2	2.33	0.52
4:B:249:ILE:C	4:B:250:HIS:CG	2.86	0.52
4:B:283:ARG:NH2	4:B:295:CYS:HB2	2.23	0.52
4:B:443:LYS:HZ3	4:B:997:LEU:CD2	2.11	0.52
4:B:465:ASP:OD1	4:B:466:ARG:N	2.42	0.52
4:B:516:THR:HA	4:B:869:SER:O	2.10	0.52
4:B:603:PHE:HD1	4:B:604:LEU:C	2.17	0.52
4:B:821:ASP:HB3	4:B:827:VAL:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:863:ASP:CB	4:B:866:VAL:CG2	2.69	0.52
4:B:904:ASP:OD2	4:B:967:ARG:HG3	2.08	0.52
4:B:924:ALA:HB2	4:B:936:GLU:O	2.08	0.52
4:B:1108:ALA:O	4:B:1111:SER:HB2	2.10	0.52
5:C:75:VAL:CG1	5:C:79:ILE:CG1	2.85	0.52
5:D:200:THR:HG21	5:D:204:ILE:O	2.09	0.52
6:E:52:PRO:C	6:E:53:GLU:OE1	2.52	0.52
6:E:564:VAL:HG21	6:E:606:ILE:HG13	1.91	0.52
8:G:206:PHE:HB2	8:G:210:ALA:HB2	1.91	0.52
8:G:245:THR:HB	8:G:249:LEU:HD22	1.92	0.52
8:G:300:ASP:N	8:G:301:PHE:HD2	2.08	0.52
9:S:9:PHE:CD2	9:S:9:PHE:C	2.84	0.52
9:S:47:LEU:HB3	9:S:59:GLY:HA2	1.91	0.52
9:S:302:PRO:HG3	9:S:304:ILE:HG12	1.92	0.52
9:U:108:VAL:HA	9:U:111:LYS:HG2	1.91	0.52
9:V:127:GLY:C	9:V:201:GLY:N	2.66	0.52
9:V:158:VAL:HB	9:V:280:THR:O	2.09	0.52
9:V:208:GLU:HG2	9:V:212:ARG:HB2	1.90	0.52
10:X:35:PHE:CA	10:X:39:ASP:OD2	2.55	0.52
10:X:202:MET:HE3	10:X:217:THR:HG21	1.89	0.52
3:A:35:ARG:O	3:A:38:PHE:HB3	2.09	0.52
3:A:109:ILE:HD12	3:A:109:ILE:H	1.74	0.52
3:A:221:LYS:HZ3	3:A:225:LYS:CE	2.22	0.52
3:A:295:GLY:O	3:A:298:LEU:N	2.42	0.52
3:A:394:ALA:O	3:A:397:THR:HG22	2.09	0.52
3:A:396:LEU:N	3:A:396:LEU:HD22	2.24	0.52
3:A:470:ARG:NH1	3:A:502:TYR:CZ	2.77	0.52
3:A:726:ALA:CB	3:A:833:ASN:HD21	2.23	0.52
4:B:6:ARG:O	6:E:612:ARG:NH1	2.42	0.52
4:B:415:GLY:HA2	4:B:422:GLN:CB	2.40	0.52
4:B:452:GLU:HA	4:B:987:LEU:CA	2.35	0.52
4:B:518:ILE:N	4:B:865:ILE:CG2	2.72	0.52
4:B:680:ILE:CG2	8:G:101:ILE:CD1	2.85	0.52
4:B:708:LEU:HB2	4:B:723:ARG:HB2	1.90	0.52
4:B:916:VAL:CB	4:B:943:VAL:HG12	2.33	0.52
4:B:936:GLU:CD	4:B:966:ILE:HG21	2.34	0.52
4:B:1028:ILE:CG2	4:B:1084:SER:HB3	2.29	0.52
8:G:89:ILE:HG23	8:G:92:ILE:HB	1.91	0.52
8:G:190:GLY:O	8:G:193:ARG:O	2.27	0.52
8:G:300:ASP:C	8:G:301:PHE:CD2	2.87	0.52
8:G:361:THR:HG1	8:G:362:ARG:N	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:180:TYR:HE2	9:S:184:PRO:HD2	1.74	0.52
9:S:183:VAL:O	9:S:264:SER:OG	2.22	0.52
9:S:196:PHE:HD2	9:S:197:LYS:H	1.49	0.52
9:S:280:THR:HG21	9:S:285:LEU:HG	1.90	0.52
9:T:179:ALA:C	9:T:181:GLU:H	2.17	0.52
9:T:206:VAL:HG11	9:T:241:LEU:CG	2.31	0.52
9:U:92:LEU:HD12	9:U:92:LEU:N	2.18	0.52
9:U:296:LEU:HD12	9:U:300:ASN:C	2.35	0.52
9:V:197:LYS:O	9:V:200:TYR:HB2	2.09	0.52
9:V:266:LEU:CB	9:V:267:PRO:HD3	2.39	0.52
10:X:45:TYR:HD2	10:X:75:PHE:CD2	2.27	0.52
10:Y:137:ILE:HA	10:Y:140:LEU:HG	1.91	0.52
3:A:232:GLU:CB	3:A:236:MET:CG	2.87	0.52
3:A:425:SER:O	3:A:426:HIS:C	2.51	0.52
3:A:682:LEU:HD22	3:A:682:LEU:N	2.24	0.52
3:A:842:GLN:OE1	3:A:842:GLN:N	2.42	0.52
3:A:867:PRO:C	3:A:869:GLU:N	2.63	0.52
3:A:950:ASN:HD21	3:A:952:ASP:HB2	1.73	0.52
4:B:43:TYR:C	4:B:45:THR:N	2.60	0.52
4:B:84:GLU:O	4:B:973:ARG:HB2	2.09	0.52
4:B:245:GLY:C	4:B:260:ARG:HD2	2.34	0.52
4:B:323:ILE:HG22	4:B:1129:TYR:OH	2.08	0.52
4:B:643:ILE:HG23	4:B:680:ILE:HA	1.91	0.52
4:B:688:PRO:HG2	4:B:740:PRO:HD2	1.91	0.52
4:B:740:PRO:O	4:B:741:VAL:HG23	2.09	0.52
4:B:922:ILE:CG2	4:B:928:LEU:CD2	2.86	0.52
4:B:922:ILE:CD1	4:B:940:ILE:HB	2.39	0.52
5:C:40:LEU:CA	5:C:43:VAL:HG12	2.39	0.52
6:E:81:HIS:CE1	6:E:84:ILE:N	2.77	0.52
6:E:439:LEU:HD22	6:E:500:PRO:HD3	1.90	0.52
8:G:116:VAL:HG23	8:G:117:ARG:N	2.25	0.52
8:G:225:GLN:CG	8:G:226:SER:N	2.72	0.52
8:G:339:LEU:HB3	8:G:342:GLY:O	2.10	0.52
8:G:388:TYR:HA	8:G:390:ARG:CZ	2.39	0.52
9:S:155:ARG:NH2	9:S:158:VAL:CB	2.73	0.52
9:S:162:LEU:HD22	9:S:301:ILE:CD1	2.39	0.52
9:U:203:GLN:O	9:U:207:GLN:HG2	2.10	0.52
9:V:47:LEU:HD22	9:V:59:GLY:HA3	1.90	0.52
9:V:80:GLU:HB2	9:V:85:ILE:HB	1.92	0.52
9:V:84:LEU:HD13	9:V:85:ILE:CA	2.38	0.52
9:V:177:LEU:HD11	9:V:191:TYR:CZ	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:210:PHE:HA	9:V:215:ALA:CB	2.39	0.52
10:Y:48:LEU:HB3	10:Y:100:LEU:HA	1.91	0.52
10:Y:158:ARG:HB2	10:Y:168:ILE:CG1	2.40	0.52
3:A:153:ILE:HG22	3:A:154:ASP:N	2.24	0.52
3:A:153:ILE:HG22	3:A:154:ASP:OD1	2.09	0.52
3:A:567:LEU:CD1	3:A:568:LYS:HB2	2.39	0.52
3:A:591:VAL:CA	3:A:668:VAL:HA	2.38	0.52
3:A:607:ARG:CA	3:A:609:ARG:H	2.23	0.52
3:A:716:SER:HB2	3:A:718:HIS:NE2	2.25	0.52
4:B:62:LYS:NZ	4:B:143:MET:CG	2.72	0.52
4:B:89:GLU:HB3	4:B:370:THR:CA	2.39	0.52
4:B:105:LEU:O	4:B:106:LYS:C	2.50	0.52
4:B:127:PHE:HE2	4:B:350:ARG:N	2.07	0.52
4:B:295:CYS:HB2	4:B:298:CYS:N	2.24	0.52
4:B:479:LEU:CD2	4:B:971:PRO:HB2	2.38	0.52
4:B:532:LYS:H	4:B:842:ARG:HG2	1.73	0.52
4:B:618:LYS:HE2	4:B:619:LEU:CD2	2.39	0.52
4:B:687:LYS:HE3	4:B:781:ARG:NH1	2.25	0.52
4:B:1031:LYS:HG3	4:B:1031:LYS:O	2.08	0.52
4:B:1113:ALA:O	4:B:1114:LEU:C	2.50	0.52
5:C:43:VAL:HG13	5:C:44:LEU:N	2.23	0.52
5:D:95:GLN:HB3	5:D:115:PRO:CG	2.39	0.52
6:E:106:ILE:HD13	6:E:279:VAL:HG21	1.91	0.52
6:E:212:GLU:OE1	6:E:213:ILE:HD13	2.09	0.52
6:E:343:GLY:O	6:E:344:ARG:C	2.52	0.52
6:E:392:LEU:H	6:E:392:LEU:HD23	1.74	0.52
6:E:408:ILE:C	6:E:410:ARG:H	2.16	0.52
6:E:459:LEU:HD21	6:E:507:ILE:CG2	2.39	0.52
8:G:143:ALA:HA	8:G:146:TYR:CD2	2.44	0.52
8:G:200:HIS:C	8:G:201:GLU:HG3	2.33	0.52
9:S:88:LYS:CB	9:S:91:GLU:CG	2.87	0.52
9:S:162:LEU:HB3	9:S:298:ARG:HB2	1.92	0.52
9:S:183:VAL:HG12	9:S:185:TRP:CE3	2.45	0.52
9:T:157:MET:CB	9:T:282:GLN:HB3	2.39	0.52
9:U:142:LEU:CD1	9:U:294:TRP:HB2	2.39	0.52
9:U:288:PRO:HB3	9:U:291:LYS:CG	2.40	0.52
9:V:98:HIS:CG	9:V:125:SER:HB3	2.44	0.52
9:V:169:LEU:HD12	9:V:170:LEU:N	2.24	0.52
9:V:184:PRO:N	9:V:188:LEU:HD23	2.25	0.52
9:V:185:TRP:CB	9:V:266:LEU:HD23	2.31	0.52
10:Y:198:ARG:HG3	10:Y:203:ILE:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:46:LEU:HG	3:A:47:ILE:N	2.25	0.52
3:A:274:ARG:NH2	3:A:289:VAL:H	2.08	0.52
3:A:464:ARG:HG2	3:A:478:ALA:HB1	1.92	0.52
3:A:505:GLY:HA3	3:A:508:VAL:HG22	1.91	0.52
3:A:686:ILE:O	3:A:976:VAL:HA	2.08	0.52
3:A:705:SER:O	3:A:706:GLU:C	2.52	0.52
3:A:1004:GLN:HE22	3:A:1042:SER:HA	1.75	0.52
3:A:1031:ALA:HB1	3:A:1035:GLN:HG2	1.91	0.52
4:B:12:GLN:HA	4:B:15:ASN:CG	2.33	0.52
4:B:62:LYS:O	4:B:63:ARG:C	2.50	0.52
4:B:67:GLU:O	4:B:70:GLU:HB3	2.09	0.52
4:B:183:LEU:O	4:B:186:THR:N	2.42	0.52
4:B:184:VAL:O	4:B:187:ALA:HB3	2.10	0.52
4:B:251:PRO:C	4:B:253:THR:H	2.17	0.52
4:B:251:PRO:HB2	4:B:253:THR:CG2	2.39	0.52
4:B:285:PRO:O	4:B:1146:ARG:HD2	2.10	0.52
4:B:296:GLN:NE2	4:B:308:MET:SD	2.83	0.52
4:B:369:ARG:HB3	4:B:443:LYS:CE	2.39	0.52
4:B:602:GLY:HA3	4:B:631:TRP:CH2	2.45	0.52
4:B:1126:GLN:NE2	4:B:1136:ILE:HG13	2.24	0.52
4:B:1208:ILE:N	4:B:1220:LEU:CD1	2.69	0.52
4:B:1235:LEU:HD12	4:B:1236:LYS:HG3	1.90	0.52
5:C:109:ALA:HB3	5:C:124:THR:N	2.25	0.52
5:C:218:VAL:HA	5:D:221:PHE:HZ	1.75	0.52
5:D:34:THR:CG2	5:D:180:VAL:CG2	2.88	0.52
5:D:109:ALA:HB3	5:D:124:THR:N	2.25	0.52
5:D:175:LYS:CD	5:D:199:TRP:CZ3	2.92	0.52
6:E:38:GLU:CD	6:E:39:VAL:N	2.59	0.52
6:E:324:VAL:HB	6:E:328:ASN:CG	2.34	0.52
6:E:426:HIS:NE2	7:F:56:LYS:CE	2.73	0.52
6:E:520:LEU:CD2	6:E:615:TYR:HB2	2.39	0.52
6:E:530:GLY:HA2	6:E:533:LYS:HG3	1.90	0.52
6:E:544:ALA:C	6:E:547:GLN:HB3	2.35	0.52
7:F:28:ARG:O	7:F:30:ARG:N	2.42	0.52
8:G:116:VAL:N	8:G:119:ARG:NH2	2.56	0.52
9:S:109:LEU:HD11	9:U:235:GLN:OE1	2.09	0.52
9:T:10:LEU:HD21	9:T:64:LEU:HD13	1.90	0.52
9:V:22:ALA:HA	9:V:27:VAL:HB	1.91	0.52
9:V:72:LEU:CA	9:V:75:GLU:HB2	2.30	0.52
9:V:95:ALA:HB1	9:V:126:LEU:HD22	1.92	0.52
9:V:112:PHE:CZ	9:V:116:TYR:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:157:MET:HB2	9:V:279:VAL:CB	2.40	0.52
9:V:180:TYR:CB	9:V:187:GLU:HB3	2.40	0.52
9:V:193:GLN:CG	9:V:218:GLN:OE1	2.57	0.52
9:V:287:ILE:H	9:V:290:ILE:CG2	2.22	0.52
10:X:166:ASP:HA	10:X:213:HIS:CE1	2.43	0.52
3:A:97:VAL:HG12	3:A:98:PRO:O	2.09	0.52
3:A:262:PHE:HB2	3:A:263:ASP:OD1	2.10	0.52
3:A:423:HIS:HD2	3:A:425:SER:HB3	1.70	0.52
3:A:513:ARG:C	3:A:515:GLU:H	2.17	0.52
3:A:617:ALA:O	3:A:620:LYS:N	2.42	0.52
3:A:724:ILE:C	3:A:725:GLU:HG2	2.34	0.52
3:A:737:THR:HG22	3:A:771:GLY:O	2.09	0.52
3:A:876:ASP:HB3	3:A:947:TRP:HE1	1.73	0.52
3:A:881:ASP:O	3:A:882:ILE:HG13	2.10	0.52
3:A:1002:THR:O	3:A:1003:GLN:C	2.52	0.52
3:A:1085:ALA:O	3:A:1096:SER:HA	2.10	0.52
4:B:93:LYS:HE2	4:B:93:LYS:CA	2.31	0.52
4:B:205:GLN:HA	4:B:317:ILE:HG22	1.90	0.52
4:B:442:VAL:CA	4:B:998:VAL:HA	2.30	0.52
4:B:479:LEU:HG	4:B:973:ARG:CA	2.39	0.52
4:B:481:TRP:HA	4:B:971:PRO:HA	1.92	0.52
4:B:700:VAL:HG11	4:B:729:GLU:N	2.25	0.52
4:B:708:LEU:HD22	4:B:712:GLU:O	2.09	0.52
5:C:126:TYR:OH	5:C:128:ALA:HA	2.10	0.52
5:C:221:PHE:O	5:C:222:ASN:OD1	2.27	0.52
5:D:53:VAL:HG12	5:D:54:THR:N	2.25	0.52
5:D:149:ARG:CG	6:E:549:GLN:HG2	2.37	0.52
5:D:161:LEU:C	5:D:163:PHE:H	2.17	0.52
6:E:106:ILE:CD1	6:E:279:VAL:HG13	2.34	0.52
6:E:125:ILE:CG1	6:E:244:MET:SD	2.97	0.52
6:E:294:ALA:HB1	6:E:295:PRO:CD	2.35	0.52
6:E:538:LEU:HG	6:E:540:ASP:CG	2.35	0.52
6:E:606:ILE:HD12	6:E:606:ILE:N	2.24	0.52
8:G:126:ARG:O	8:G:127:ASP:HB2	2.09	0.52
8:G:333:GLU:CA	8:G:337:LEU:HD21	2.40	0.52
8:G:374:ARG:C	8:G:376:LEU:N	2.68	0.52
9:S:43:LEU:HD23	9:S:63:LEU:HD13	1.82	0.52
9:T:194:VAL:CG1	9:T:195:VAL:H	2.23	0.52
9:T:210:PHE:O	9:T:215:ALA:N	2.33	0.52
9:T:230:ARG:HD2	9:V:101:CYS:HB3	1.91	0.52
9:U:201:GLY:N	9:U:204:ARG:HG2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:1:MET:HE3	9:V:66:ARG:NH1	2.25	0.52
9:V:49:HIS:HB3	9:V:52:ASN:CB	2.30	0.52
9:V:92:LEU:HG	9:V:93:CYS:H	1.73	0.52
9:V:181:GLU:H	9:V:187:GLU:CB	2.22	0.52
9:V:296:LEU:O	9:V:297:VAL:C	2.53	0.52
10:X:46:PHE:HB3	10:X:101:LEU:HD13	1.91	0.52
10:X:47:LEU:HA	10:X:100:LEU:HG	1.91	0.52
10:X:126:LEU:HD13	10:Y:126:LEU:CG	2.22	0.52
10:X:170:ILE:CD1	10:X:210:ILE:HB	2.38	0.52
2:2:98:DA:H2"	2:2:99:DA:H8	1.75	0.52
3:A:47:ILE:N	3:A:48:GLU:OE1	2.43	0.52
3:A:49:GLU:O	3:A:50:LEU:C	2.52	0.52
3:A:166:ILE:CD1	3:A:172:TRP:CG	2.93	0.52
3:A:278:ASN:O	3:A:280:LYS:N	2.43	0.52
3:A:335:GLN:N	3:A:335:GLN:CD	2.65	0.52
3:A:401:ARG:NH1	3:A:444:ILE:HG21	2.25	0.52
3:A:429:ARG:HA	3:A:461:THR:HG21	1.91	0.52
3:A:606:ILE:O	3:A:609:ARG:CD	2.51	0.52
3:A:645:SER:HB3	3:A:649:THR:HG23	1.91	0.52
3:A:663:VAL:C	3:A:664:VAL:HG13	2.35	0.52
3:A:858:ASN:C	3:A:859:LYS:HG3	2.27	0.52
3:A:895:VAL:CG1	3:A:896:GLY:N	2.72	0.52
3:A:896:GLY:O	3:A:897:GLN:C	2.50	0.52
4:B:5:ASN:OD1	4:B:6:ARG:N	2.43	0.52
4:B:5:ASN:HD21	6:E:567:ASP:H	1.56	0.52
4:B:108:GLU:O	4:B:109:VAL:C	2.53	0.52
4:B:154:ILE:O	4:B:154:ILE:HG23	2.10	0.52
4:B:164:ARG:O	4:B:166:GLY:N	2.42	0.52
4:B:168:THR:OG1	4:B:169:VAL:HG22	2.10	0.52
4:B:408:SER:OG	4:B:410:ILE:HG12	2.09	0.52
4:B:496:LEU:HD23	4:B:890:GLY:HA2	1.90	0.52
4:B:518:ILE:CD1	4:B:868:GLY:H	2.21	0.52
4:B:572:PHE:HE1	4:B:794:GLN:HA	1.74	0.52
4:B:765:SER:HB2	4:B:801:GLN:HG2	1.90	0.52
4:B:1241:ILE:HG22	4:B:1243:ARG:H	1.74	0.52
6:E:291:GLU:HG2	6:E:292:ILE:H	1.70	0.52
6:E:423:ILE:CD1	6:E:448:LEU:CB	2.67	0.52
6:E:423:ILE:HD13	6:E:448:LEU:HD13	1.90	0.52
8:G:228:THR:O	8:G:229:ILE:HG13	2.10	0.52
9:T:193:GLN:HE22	9:T:239:ILE:CG2	2.22	0.52
9:T:209:LYS:NZ	9:T:273:THR:C	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:170:LEU:HD23	9:U:247:LEU:HA	1.90	0.52
9:U:174:ASN:C	9:U:178:ALA:HB3	2.34	0.52
9:U:175:HIS:O	9:U:178:ALA:N	2.43	0.52
10:X:110:GLN:HA	10:X:114:GLU:CG	2.39	0.52
10:Y:58:TYR:O	10:Y:61:GLY:N	2.42	0.52
3:A:148:TYR:C	3:A:149:TYR:CD1	2.88	0.52
3:A:208:GLU:HA	3:A:211:ASP:OD1	2.10	0.52
3:A:260:ARG:C	3:A:261:PHE:CD1	2.88	0.52
3:A:328:VAL:O	3:A:331:LEU:N	2.43	0.52
3:A:759:ILE:CG2	3:A:760:GLY:H	2.23	0.52
4:B:45:THR:O	4:B:46:ARG:C	2.49	0.52
4:B:92:GLN:HG3	4:B:366:ARG:CZ	2.40	0.52
4:B:210:ARG:O	4:B:211:GLU:OE2	2.27	0.52
4:B:212:ILE:HG22	4:B:296:GLN:HB3	1.90	0.52
4:B:348:GLN:HA	4:B:350:ARG:HH11	1.75	0.52
4:B:488:TYR:CZ	4:B:878:SER:HB2	2.44	0.52
4:B:544:VAL:O	4:B:831:GLN:HA	2.09	0.52
4:B:565:THR:HA	4:B:571:VAL:HA	1.92	0.52
4:B:637:HIS:HD2	4:B:684:VAL:HG12	1.75	0.52
4:B:726:GLN:HE22	4:B:739:ARG:CZ	2.22	0.52
4:B:941:VAL:H	4:B:966:ILE:HA	1.75	0.52
5:C:57:ARG:CB	5:C:162:ASP:CG	2.78	0.52
5:D:126:TYR:OH	5:D:128:ALA:HA	2.10	0.52
6:E:119:LYS:O	6:E:120:GLY:C	2.53	0.52
6:E:412:ASP:CG	6:E:414:SER:OG	2.53	0.52
8:G:369:GLU:O	8:G:373:LEU:N	2.37	0.52
9:S:168:GLU:HB3	9:S:247:LEU:HD21	1.91	0.52
9:S:185:TRP:N	9:S:213:LEU:HB2	2.23	0.52
9:U:105:LEU:C	9:U:107:PRO:HD2	2.35	0.52
9:V:40:GLU:HA	9:V:47:LEU:HG	1.90	0.52
9:V:161:VAL:N	9:V:298:ARG:HA	2.23	0.52
9:V:166:PRO:HB3	9:V:263:ASN:H	1.74	0.52
9:V:205:LEU:O	9:V:208:GLU:O	2.28	0.52
9:V:221:LEU:HD12	9:V:221:LEU:C	2.35	0.52
9:V:284:ARG:O	9:V:284:ARG:HG2	2.10	0.52
10:X:84:ASN:O	10:X:85:LYS:HD3	2.09	0.52
10:X:216:VAL:O	10:X:217:THR:C	2.53	0.52
10:Y:55:SER:HA	10:Y:64:ILE:O	2.10	0.52
10:Y:154:LEU:HD13	10:Y:215:PRO:CB	2.39	0.52
3:A:29:ASP:O	3:A:30:LEU:C	2.49	0.52
3:A:229:PHE:HD1	3:A:233:GLU:HG3	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:443:LEU:C	3:A:444:ILE:HD12	2.35	0.52
3:A:466:VAL:N	3:A:525:ASP:HB2	1.98	0.52
3:A:495:ILE:O	3:A:497:VAL:N	2.42	0.52
3:A:550:ALA:HB2	4:B:172:TYR:CE1	2.44	0.52
3:A:571:ARG:HB3	3:A:676:GLU:CD	2.35	0.52
3:A:607:ARG:HA	3:A:609:ARG:HG3	1.92	0.52
3:A:607:ARG:O	3:A:615:PRO:CG	2.58	0.52
3:A:1018:GLY:O	3:A:1021:GLU:N	2.39	0.52
3:A:1089:VAL:C	3:A:1091:THR:H	2.18	0.52
3:A:1098:LEU:HD21	3:A:1100:VAL:CG2	2.40	0.52
4:B:9:ASP:OD2	4:B:12:GLN:N	2.38	0.52
4:B:111:THR:HA	4:B:114:LYS:HG2	1.91	0.52
4:B:368:HIS:CE1	4:B:976:PRO:O	2.62	0.52
4:B:510:LEU:N	4:B:875:GLN:OE1	2.42	0.52
4:B:562:TYR:O	4:B:574:LEU:HG	2.10	0.52
4:B:634:GLU:OE1	4:B:781:ARG:NH1	2.42	0.52
4:B:729:GLU:HG2	4:B:730:SER:H	1.75	0.52
4:B:822:LEU:C	4:B:826:ASP:HA	2.34	0.52
4:B:896:ARG:HG2	4:B:987:LEU:N	2.25	0.52
4:B:905:MET:HG2	4:B:966:ILE:C	2.35	0.52
4:B:1023:PRO:HB2	4:B:1024:LYS:HZ3	1.74	0.52
5:C:19:HIS:CD2	5:C:200:THR:HG22	2.42	0.52
5:D:57:ARG:HD3	5:D:161:LEU:HD12	1.92	0.52
6:E:271:ASP:HB2	6:E:331:LEU:CD2	2.40	0.52
6:E:415:VAL:HG12	6:E:416:TRP:CD1	2.40	0.52
6:E:428:VAL:HG12	6:E:429:MET:N	2.23	0.52
6:E:585:THR:C	6:E:592:ARG:NH2	2.68	0.52
8:G:275:PHE:C	8:G:275:PHE:CD2	2.88	0.52
9:S:6:LEU:HD21	9:S:68:ARG:CG	2.39	0.52
9:S:124:THR:OG1	9:S:125:SER:N	2.41	0.52
9:S:185:TRP:O	9:S:188:LEU:HB2	2.10	0.52
9:T:33:SER:C	9:T:50:ARG:NH2	2.68	0.52
9:U:108:VAL:HG12	9:U:301:ILE:CG2	2.34	0.52
9:U:147:ASN:C	9:U:149:ARG:N	2.65	0.52
9:V:84:LEU:CD1	9:V:85:ILE:CA	2.88	0.52
9:V:242:LEU:HB2	9:V:250:ALA:HB2	1.91	0.52
9:V:300:ASN:O	9:V:301:ILE:C	2.51	0.52
10:X:26:GLU:O	10:X:100:LEU:HD12	2.10	0.52
10:X:46:PHE:HB3	10:X:101:LEU:CD1	2.38	0.52
10:X:47:LEU:HG	10:X:100:LEU:CG	2.38	0.52
2:2:103:DG:H2'	2:2:104:DC:N1	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:54:SER:HB3	3:A:55:PRO:CD	2.40	0.52
3:A:91:TYR:CG	3:A:92:ALA:N	2.77	0.52
3:A:165:LEU:C	3:A:165:LEU:HD23	2.35	0.52
3:A:208:GLU:C	3:A:210:PHE:H	2.18	0.52
3:A:259:SER:HA	3:A:263:ASP:OD2	2.10	0.52
3:A:270:GLY:O	3:A:271:ARG:C	2.53	0.52
3:A:295:GLY:O	3:A:298:LEU:HB2	2.09	0.52
3:A:490:VAL:CG1	3:A:511:ARG:HB2	2.40	0.52
3:A:867:PRO:C	3:A:869:GLU:H	2.16	0.52
4:B:32:MET:HG2	4:B:33:ALA:H	1.75	0.52
4:B:47:ALA:CB	6:E:519:TYR:CE2	2.86	0.52
4:B:148:ALA:HA	4:B:154:ILE:CA	2.39	0.52
4:B:164:ARG:O	4:B:165:GLU:C	2.51	0.52
4:B:194:GLY:O	4:B:198:ARG:HD2	2.09	0.52
4:B:265:SER:HB3	4:B:268:LEU:HD12	1.90	0.52
4:B:439:GLU:C	4:B:439:GLU:CD	2.78	0.52
4:B:521:GLY:H	4:B:864:THR:HA	1.73	0.52
4:B:572:PHE:HB3	4:B:589:ALA:CB	2.39	0.52
4:B:765:SER:HG	4:B:801:GLN:HG3	1.74	0.52
4:B:1150:ASN:OD1	4:B:1150:ASN:C	2.51	0.52
5:C:29:GLU:OE1	5:D:47:ASN:CG	2.53	0.52
5:C:139:GLU:OE2	5:C:162:ASP:OD2	2.27	0.52
5:C:181:GLU:O	5:C:183:VAL:HG23	2.11	0.52
6:E:235:ILE:O	6:E:236:ALA:C	2.53	0.52
6:E:568:GLN:HB2	6:E:590:TYR:HE2	1.75	0.52
6:E:616:ASN:HA	6:E:619:ILE:HD12	1.92	0.52
8:G:111:LEU:O	8:G:112:GLU:C	2.53	0.52
8:G:251:GLN:C	8:G:253:MET:H	2.17	0.52
8:G:301:PHE:C	8:G:302:ILE:HD12	2.35	0.52
9:S:68:ARG:O	9:S:69:LYS:C	2.53	0.52
9:T:183:VAL:O	9:T:261:LEU:HG	2.10	0.52
9:U:30:SER:O	9:U:34:ARG:NE	2.43	0.52
9:U:98:HIS:CE1	9:U:203:GLN:HA	2.39	0.52
9:U:176:PRO:HG2	9:U:239:ILE:HD12	1.89	0.52
9:U:192:PRO:O	9:U:194:VAL:N	2.42	0.52
9:U:247:LEU:O	9:U:249:GLU:N	2.43	0.52
9:V:162:LEU:CD2	9:V:278:MET:HE3	2.13	0.52
9:V:183:VAL:HG13	9:V:259:ARG:HD2	1.92	0.52
10:X:29:GLU:N	10:X:32:LYS:HE3	2.23	0.52
10:X:55:SER:HA	10:X:64:ILE:O	2.10	0.52
10:X:69:LEU:HG	10:X:70:ARG:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:145:MET:O	10:Y:148:ARG:N	2.43	0.52
10:Y:194:LEU:HD12	10:Y:203:ILE:CD1	2.40	0.52
1:1:31:DC:O5'	1:1:31:DC:H6	1.93	0.51
2:2:97:DG:O5'	9:S:155:ARG:HG3	2.10	0.51
3:A:165:LEU:HB3	3:A:173:LEU:CB	2.38	0.51
3:A:235:LEU:N	3:A:238:LEU:HD12	2.25	0.51
3:A:613:GLN:HG3	3:A:614:LEU:H	1.75	0.51
3:A:743:VAL:HG23	3:A:743:VAL:O	2.09	0.51
3:A:792:PHE:CZ	8:G:389:ILE:HA	2.45	0.51
3:A:900:GLU:CD	3:A:900:GLU:H	2.06	0.51
3:A:973:THR:OG1	3:A:974:ILE:N	2.42	0.51
3:A:991:HIS:HB2	3:A:1009:LYS:NZ	2.24	0.51
3:A:999:SER:O	3:A:1003:GLN:HA	2.10	0.51
3:A:1034:LEU:HA	3:A:1037:LEU:HB3	1.91	0.51
4:B:52:SER:OG	4:B:53:VAL:C	2.52	0.51
4:B:144:ARG:CB	4:B:159:ILE:HG22	2.19	0.51
4:B:254:LYS:HG2	4:B:255:GLU:H	1.75	0.51
4:B:296:GLN:NE2	4:B:297:HIS:HA	2.25	0.51
4:B:384:ILE:CG2	4:B:384:ILE:O	2.57	0.51
4:B:487:VAL:CA	4:B:987:LEU:HD23	2.39	0.51
4:B:560:ASN:O	4:B:561:ASN:HB3	2.09	0.51
4:B:609:VAL:HA	4:B:626:GLY:CA	2.39	0.51
4:B:673:GLU:HB2	4:B:685:VAL:O	2.10	0.51
4:B:1130:GLN:HE22	4:B:1134:ILE:C	2.18	0.51
4:B:1208:ILE:N	4:B:1220:LEU:HD11	2.25	0.51
5:C:30:ARG:HA	5:C:192:ASP:OD2	2.10	0.51
5:C:51:THR:HA	5:C:144:ARG:CA	2.39	0.51
5:C:120:VAL:O	5:C:122:ASP:N	2.43	0.51
5:C:218:VAL:HG13	5:C:219:ASP:N	2.25	0.51
5:C:226:ASP:CB	5:D:211:SER:HA	2.38	0.51
5:D:107:ILE:HD11	5:D:135:LYS:NZ	2.25	0.51
5:D:198:VAL:C	5:D:199:TRP:CD1	2.85	0.51
6:E:80:ARG:NE	8:G:346:GLY:H	2.08	0.51
6:E:108:LEU:HD11	6:E:249:ILE:HD11	1.92	0.51
6:E:276:TYR:CD1	6:E:313:LEU:HD11	2.45	0.51
6:E:287:ALA:O	6:E:291:GLU:OE1	2.28	0.51
8:G:125:GLU:O	8:G:126:ARG:C	2.53	0.51
8:G:303:GLU:CD	8:G:304:SER:N	2.67	0.51
8:G:308:THR:C	8:G:309:PRO:O	2.50	0.51
8:G:339:LEU:O	8:G:340:ARG:C	2.52	0.51
8:G:353:GLU:HB3	8:G:357:ILE:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:136:LYS:HG2	9:S:151:LEU:N	2.24	0.51
9:T:162:LEU:C	9:T:301:ILE:HG22	2.19	0.51
9:T:211:GLU:HG2	9:T:214:GLU:OE2	2.09	0.51
9:T:261:LEU:HB3	9:T:272:LEU:N	2.25	0.51
9:U:151:LEU:CD2	9:U:279:VAL:HA	2.40	0.51
9:U:159:VAL:HG13	9:U:160:GLU:H	1.75	0.51
9:U:160:GLU:CB	9:U:298:ARG:HG2	2.40	0.51
9:U:183:VAL:CG2	9:U:184:PRO:HD3	2.35	0.51
9:V:267:PRO:O	9:V:268:GLU:HG2	2.09	0.51
10:X:133:THR:O	10:X:137:ILE:N	2.43	0.51
10:Y:58:TYR:O	10:Y:61:GLY:CA	2.58	0.51
10:Y:210:ILE:C	10:Y:211:THR:CG2	2.83	0.51
3:A:68:LEU:HD11	3:A:70:HIS:CD2	2.37	0.51
3:A:389:GLN:HB3	3:A:395:GLU:CD	2.35	0.51
3:A:437:GLU:HA	4:B:183:LEU:HD21	1.92	0.51
3:A:686:ILE:O	3:A:688:VAL:HG23	2.10	0.51
3:A:728:GLN:OE1	3:A:833:ASN:ND2	2.44	0.51
3:A:815:VAL:HG22	3:A:840:VAL:HA	1.91	0.51
3:A:1019:GLU:HB2	3:A:1022:VAL:HG22	1.92	0.51
4:B:49:VAL:HG22	4:B:50:SER:N	2.23	0.51
4:B:88:VAL:HG11	4:B:443:LYS:HG3	1.91	0.51
4:B:455:PHE:HE2	4:B:460:PRO:HB3	1.75	0.51
4:B:503:ARG:HA	4:B:882:GLY:C	2.35	0.51
4:B:611:VAL:HA	4:B:622:GLU:CD	2.34	0.51
4:B:671:VAL:N	4:B:689:GLY:O	2.41	0.51
4:B:1013:ARG:O	4:B:1014:ILE:CG1	2.51	0.51
4:B:1094:LEU:HD22	4:B:1194:LEU:CD2	2.41	0.51
4:B:1226:GLU:C	4:B:1228:LYS:N	2.66	0.51
5:C:56:VAL:HG12	5:C:164:LEU:O	2.09	0.51
5:C:100:LEU:C	5:C:101:VAL:O	2.44	0.51
5:C:193:ARG:HG2	5:C:194:LEU:N	2.25	0.51
5:D:72:ARG:HD3	5:D:129:THR:HG22	1.81	0.51
5:D:96:ILE:HG22	5:D:97:GLY:O	2.10	0.51
6:E:251:VAL:HG22	6:E:276:TYR:CE2	2.45	0.51
6:E:520:LEU:HD22	6:E:615:TYR:HB3	1.92	0.51
7:F:66:SER:HA	7:F:69:LEU:HD12	1.93	0.51
8:G:329:LEU:HA	8:G:375:LYS:HE3	1.91	0.51
9:S:98:HIS:CE1	9:S:229:PHE:CE2	2.86	0.51
9:S:187:GLU:HA	9:S:190:ARG:HG3	1.92	0.51
9:T:18:PHE:CE2	9:T:33:SER:HB3	2.45	0.51
9:T:197:LYS:HB2	9:T:200:TYR:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:119:VAL:HG11	9:V:121:LEU:HD23	1.92	0.51
9:V:144:ILE:O	9:V:144:ILE:HG13	2.10	0.51
9:V:188:LEU:CG	9:V:189:VAL:HG13	2.40	0.51
10:Y:95:PHE:HZ	10:Y:172:LEU:HD11	1.75	0.51
10:Y:136:MET:HE2	10:Y:152:PHE:CD1	2.46	0.51
1:1:21:DC:O3'	2:2:107:DT:C4'	2.50	0.51
1:1:21:DC:H5"	2:2:108:DT:O4'	2.10	0.51
3:A:42:LEU:HG	3:A:43:GLU:N	2.26	0.51
3:A:183:VAL:O	3:A:184:TRP:CD2	2.63	0.51
3:A:274:ARG:HH12	3:A:287:ASP:CB	2.24	0.51
3:A:446:SER:O	3:A:447:LEU:HB2	2.09	0.51
3:A:616:THR:CA	3:A:633:GLN:HB2	2.39	0.51
3:A:616:THR:CG2	3:A:617:ALA:N	2.73	0.51
3:A:792:PHE:HB2	8:G:390:ARG:OXT	2.10	0.51
3:A:804:LEU:N	3:A:804:LEU:HD22	2.25	0.51
3:A:861:ILE:HD11	6:E:468:PHE:O	2.10	0.51
3:A:1039:THR:CB	3:A:1040:VAL:HG13	2.39	0.51
4:B:33:ALA:HA	4:B:37:LYS:HG2	1.93	0.51
4:B:149:ASP:OD1	4:B:149:ASP:C	2.53	0.51
4:B:236:SER:OG	4:B:273:GLU:HB3	2.10	0.51
4:B:359:LEU:HA	4:B:386:ILE:HB	1.92	0.51
4:B:515:LEU:C	4:B:871:VAL:HG12	2.36	0.51
4:B:526:PRO:HB3	4:B:536:GLU:C	2.34	0.51
4:B:540:ILE:C	4:B:833:VAL:HG13	2.35	0.51
4:B:673:GLU:O	4:B:675:THR:HG23	2.10	0.51
4:B:1109:CYS:C	4:B:1112:HIS:H	2.19	0.51
4:B:1211:ALA:CB	4:B:1216:THR:HA	2.40	0.51
5:C:54:THR:O	5:C:166:ILE:N	2.40	0.51
5:C:65:PHE:N	5:C:65:PHE:CD1	2.78	0.51
5:D:68:VAL:O	5:D:69:PRO:O	2.28	0.51
6:E:432:ARG:O	6:E:433:ALA:C	2.52	0.51
6:E:457:HIS:ND1	6:E:457:HIS:C	2.67	0.51
6:E:462:PRO:O	6:E:463:ALA:C	2.50	0.51
6:E:520:LEU:CD2	6:E:615:TYR:CB	2.89	0.51
6:E:576:VAL:HG13	6:E:586:VAL:HG23	1.92	0.51
8:G:170:ALA:HB2	8:G:184:ILE:HG22	1.92	0.51
8:G:250:SER:HB2	8:G:255:ARG:O	2.10	0.51
8:G:375:LYS:O	8:G:381:ARG:HB3	2.10	0.51
9:S:92:LEU:CD1	9:S:121:LEU:CD2	2.89	0.51
9:T:135:LEU:CD1	9:T:278:MET:CE	2.89	0.51
9:T:184:PRO:O	9:T:186:SER:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:28:THR:HG22	9:U:29:GLN:N	2.25	0.51
9:U:45:LEU:CD2	9:U:62:ARG:CB	2.80	0.51
9:U:47:LEU:HD13	9:U:57:THR:H	1.74	0.51
9:U:170:LEU:HD23	9:U:246:ALA:C	2.33	0.51
9:V:169:LEU:HB2	9:V:261:LEU:HD22	1.92	0.51
9:V:170:LEU:HD11	9:V:250:ALA:HB1	1.92	0.51
10:X:26:GLU:HB2	10:X:100:LEU:HB2	1.92	0.51
10:X:58:TYR:O	10:X:61:GLY:CA	2.58	0.51
10:X:136:MET:HE1	10:X:148:ARG:HA	1.93	0.51
10:Y:64:ILE:C	10:Y:66:VAL:HG23	2.36	0.51
1:1:36:DC:H1'	1:1:37:DA:H5'	1.93	0.51
3:A:176:GLU:CD	3:A:184:TRP:H	2.18	0.51
3:A:249:THR:O	3:A:252:GLY:N	2.44	0.51
3:A:325:VAL:CG2	3:A:326:ARG:N	2.74	0.51
3:A:356:ALA:CA	3:A:359:LEU:HD13	2.40	0.51
3:A:677:GLY:C	3:A:679:GLU:OE1	2.53	0.51
3:A:688:VAL:HG22	3:A:882:ILE:HB	1.92	0.51
3:A:706:GLU:OE1	3:A:867:PRO:HA	2.10	0.51
4:B:304:ALA:HB2	6:E:500:PRO:CA	2.31	0.51
4:B:305:HIS:CG	4:B:309:VAL:HA	2.45	0.51
4:B:461:GLU:OE1	4:B:473:THR:C	2.53	0.51
4:B:657:GLY:O	4:B:658:THR:C	2.54	0.51
4:B:1104:ASP:OD2	4:B:1109:CYS:HB3	2.09	0.51
4:B:1175:GLN:OE1	4:B:1175:GLN:O	2.29	0.51
5:C:36:VAL:O	5:C:37:GLY:C	2.53	0.51
5:C:58:ILE:N	5:C:162:ASP:HB2	2.25	0.51
5:C:107:ILE:HD11	5:C:135:LYS:NZ	2.25	0.51
5:D:74:ASP:O	5:D:78:ILE:N	2.41	0.51
5:D:185:ALA:HB1	5:D:191:LYS:HG3	1.87	0.51
6:E:18:SER:OG	6:E:243:TRP:CE2	2.64	0.51
6:E:84:ILE:CG2	6:E:93:VAL:HG22	2.38	0.51
6:E:167:TRP:HE1	6:E:186:VAL:HB	1.74	0.51
6:E:287:ALA:HA	6:E:290:GLN:HG2	1.91	0.51
6:E:394:ARG:HD3	6:E:394:ARG:C	2.36	0.51
6:E:420:GLU:CG	6:E:448:LEU:HD22	2.35	0.51
6:E:465:ASN:O	6:E:467:ASP:N	2.44	0.51
6:E:547:GLN:HG2	6:E:548:GLU:O	2.10	0.51
7:F:60:ARG:C	7:F:62:ILE:H	2.19	0.51
8:G:117:ARG:HD2	8:G:118:GLU:N	2.26	0.51
8:G:135:GLU:CD	8:G:139:LEU:HB2	2.35	0.51
8:G:335:ASP:OD1	8:G:336:VAL:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:92:LEU:HD12	9:S:121:LEU:CD2	2.41	0.51
9:S:134:VAL:CA	9:S:137:ASP:OD1	2.59	0.51
9:T:239:ILE:CG2	9:T:240:ALA:H	2.21	0.51
9:U:6:LEU:HA	9:U:9:PHE:HB3	1.93	0.51
9:U:185:TRP:CD1	9:U:210:PHE:O	2.63	0.51
9:V:92:LEU:HD21	9:V:297:VAL:HG23	1.93	0.51
10:Y:45:TYR:CE2	10:Y:75:PHE:CE1	2.86	0.51
10:Y:69:LEU:HG	10:Y:70:ARG:O	2.10	0.51
1:1:21:DC:C2	2:2:105:DG:N2	2.50	0.51
1:1:100:DA:H61	8:G:199:ASP:CG	2.17	0.51
3:A:31:ILE:C	3:A:34:GLN:HE22	2.17	0.51
3:A:130:ILE:O	3:A:131:ASN:C	2.54	0.51
3:A:185:VAL:O	3:A:185:VAL:HG23	2.11	0.51
3:A:564:VAL:HG12	3:A:983:VAL:HG12	1.92	0.51
3:A:697:ASN:CB	3:A:701:ALA:O	2.59	0.51
3:A:772:LYS:HD2	3:A:774:THR:HG22	1.92	0.51
3:A:1087:HIS:CE1	6:E:11:TYR:CZ	2.99	0.51
4:B:40:GLY:O	4:B:41:PHE:O	2.28	0.51
4:B:89:GLU:HG3	4:B:369:ARG:CA	2.35	0.51
4:B:169:VAL:HG23	4:B:170:THR:CG2	2.40	0.51
4:B:575:ARG:N	4:B:589:ALA:HA	2.24	0.51
4:B:586:GLN:C	4:B:587:VAL:HG13	2.36	0.51
4:B:634:GLU:CB	4:B:687:LYS:HD2	2.34	0.51
4:B:694:VAL:N	4:B:736:LEU:N	2.58	0.51
4:B:697:PRO:C	4:B:699:ALA:N	2.69	0.51
4:B:906:ALA:HB3	4:B:966:ILE:CG2	2.40	0.51
4:B:1098:PHE:CZ	4:B:1106:VAL:HA	2.46	0.51
4:B:1124:GLU:O	4:B:1127:MET:HB3	2.10	0.51
4:B:1156:ASP:OD2	4:B:1189:GLN:HB2	2.10	0.51
4:B:1222:GLU:CG	6:E:124:TYR:CE2	2.93	0.51
4:B:1224:ALA:C	4:B:1226:GLU:H	2.19	0.51
5:C:58:ILE:C	5:C:60:GLY:H	2.17	0.51
5:C:107:ILE:HG13	5:C:128:ALA:HB3	1.91	0.51
5:C:140:PHE:N	5:C:140:PHE:CD1	2.79	0.51
5:D:22:LYS:O	5:D:23:PHE:HD1	1.94	0.51
5:D:64:GLU:N	5:D:64:GLU:OE1	2.44	0.51
5:D:119:GLU:CD	5:D:121:ILE:HA	2.36	0.51
6:E:454:ILE:O	6:E:455:GLN:HG2	2.11	0.51
8:G:81:SER:O	8:G:84:LEU:HB2	2.09	0.51
8:G:119:ARG:HB3	8:G:123:LYS:HZ3	1.75	0.51
9:S:4:GLU:O	9:S:8:ALA:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:28:THR:C	9:S:32:ILE:CG2	2.79	0.51
9:S:74:TRP:CZ3	9:S:78:THR:OG1	2.61	0.51
9:S:153:THR:OG1	9:S:157:MET:HA	2.11	0.51
9:S:251:ARG:CG	9:S:251:ARG:O	2.59	0.51
9:T:165:GLU:HG2	9:T:168:GLU:CG	2.40	0.51
9:U:185:TRP:CH2	9:U:210:PHE:CD1	2.99	0.51
9:V:128:SER:OG	9:V:204:ARG:CD	2.58	0.51
9:V:146:MET:CG	9:V:274:ARG:CB	2.84	0.51
9:V:169:LEU:HD13	9:V:241:LEU:HB3	1.92	0.51
9:V:200:TYR:CB	9:V:203:GLN:HB3	2.37	0.51
9:V:208:GLU:O	9:V:209:LYS:CB	2.58	0.51
10:X:42:GLU:HB3	10:X:88:ARG:NH1	2.26	0.51
1:1:22:DG:C8	1:1:22:DG:C5'	2.86	0.51
1:1:110:DC:N4	3:A:188:ASP:HA	2.25	0.51
3:A:458:PHE:CZ	3:A:483:ASP:OD2	2.57	0.51
3:A:591:VAL:O	3:A:592:SER:C	2.51	0.51
3:A:781:GLN:NE2	3:A:786:LYS:HD3	2.26	0.51
3:A:788:LEU:O	3:A:789:ARG:C	2.54	0.51
3:A:814:VAL:CG2	3:A:815:VAL:N	2.73	0.51
3:A:828:LEU:CD1	3:A:830:PRO:HA	2.41	0.51
3:A:894:ASN:O	3:A:896:GLY:N	2.43	0.51
3:A:899:PHE:N	3:A:899:PHE:HD1	2.07	0.51
3:A:1016:ARG:NH1	6:E:353:ARG:NH1	2.58	0.51
4:B:250:HIS:O	4:B:251:PRO:C	2.54	0.51
4:B:439:GLU:C	4:B:1001:ARG:H	2.16	0.51
4:B:443:LYS:CD	4:B:997:LEU:HB3	2.41	0.51
4:B:759:SER:O	4:B:761:GLN:HG2	2.11	0.51
4:B:1111:SER:HA	4:B:1114:LEU:CB	2.35	0.51
5:C:22:LYS:O	5:C:23:PHE:HD1	1.94	0.51
5:C:24:ILE:CG2	5:C:26:GLU:H	2.23	0.51
5:C:48:LEU:HD11	5:C:172:PRO:CD	2.12	0.51
5:D:78:ILE:CG2	5:D:138:MET:HE3	2.41	0.51
5:D:224:LEU:HG	5:D:226:ASP:N	2.26	0.51
6:E:86:CYS:N	6:E:89:CYS:O	2.44	0.51
6:E:240:LYS:CD	6:E:242:GLU:OE2	2.30	0.51
6:E:376:PRO:HG2	6:E:379:MET:HG2	1.93	0.51
6:E:608:THR:OG1	6:E:612:ARG:HD2	2.10	0.51
7:F:34:GLN:O	7:F:37:ASN:HB2	2.10	0.51
8:G:89:ILE:HA	8:G:92:ILE:CG1	2.41	0.51
8:G:235:LEU:HD12	8:G:276:ILE:CG1	2.35	0.51
8:G:298:LEU:CD1	8:G:299:GLY:H	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:360:VAL:O	8:G:360:VAL:CG1	2.58	0.51
8:G:365:ILE:HG23	8:G:366:ARG:N	2.26	0.51
9:S:105:LEU:HA	9:S:302:PRO:HD2	1.92	0.51
9:S:109:LEU:HD11	9:U:235:GLN:CD	2.36	0.51
9:S:162:LEU:HD12	9:S:162:LEU:C	2.35	0.51
9:S:187:GLU:HA	9:S:190:ARG:CG	2.40	0.51
9:T:159:VAL:O	9:T:160:GLU:OE2	2.28	0.51
9:T:189:VAL:HG21	9:T:210:PHE:CZ	2.46	0.51
9:T:280:THR:O	9:T:280:THR:HG22	2.09	0.51
9:U:111:LYS:CD	9:U:292:HIS:NE2	2.72	0.51
9:U:227:ASP:O	9:U:228:ALA:HB3	2.10	0.51
9:V:69:LYS:HA	9:V:72:LEU:CD2	2.40	0.51
9:V:172:ALA:O	9:V:175:HIS:O	2.28	0.51
10:X:203:ILE:CA	10:X:210:ILE:HA	2.39	0.51
2:2:104:DC:H2"	2:2:105:DG:C8	2.45	0.51
3:A:31:ILE:HG13	3:A:34:GLN:NE2	2.26	0.51
3:A:149:TYR:CZ	3:A:315:ASP:CB	2.93	0.51
3:A:272:VAL:CG1	3:A:273:GLY:N	2.70	0.51
3:A:603:ALA:HB2	5:C:72:ARG:C	2.35	0.51
3:A:695:GLY:HA3	4:B:41:PHE:CE2	2.46	0.51
3:A:726:ALA:HB3	3:A:833:ASN:ND2	2.25	0.51
3:A:1033:THR:HG22	6:E:483:SER:HB2	1.93	0.51
3:A:1036:GLU:HG2	3:A:1040:VAL:HG23	1.92	0.51
4:B:233:ILE:HG12	4:B:238:ARG:NH1	2.25	0.51
4:B:268:LEU:O	4:B:271:GLU:OE2	2.29	0.51
4:B:357:ILE:CA	4:B:389:PRO:HB3	2.39	0.51
4:B:601:GLY:H	4:B:634:GLU:H	1.57	0.51
4:B:778:ASP:C	4:B:780:GLU:H	2.17	0.51
5:D:120:VAL:O	5:D:122:ASP:N	2.43	0.51
6:E:154:GLU:OE2	6:E:180:GLN:N	2.44	0.51
6:E:315:ASP:OD1	6:E:316:ASN:O	2.29	0.51
6:E:498:LEU:HD12	6:E:503:GLY:C	2.36	0.51
6:E:578:THR:HA	6:E:584:ARG:CA	2.39	0.51
6:E:620:GLN:CD	6:E:620:GLN:H	2.19	0.51
7:F:28:ARG:HG3	7:F:29:TYR:N	2.25	0.51
7:F:34:GLN:CA	7:F:37:ASN:OD1	2.55	0.51
9:T:37:GLN:HG2	9:T:48:PHE:CE1	2.46	0.51
9:T:191:TYR:O	9:T:192:PRO:C	2.54	0.51
9:T:235:GLN:HE22	9:T:238:LEU:HB2	1.74	0.51
9:U:176:PRO:HG3	9:U:191:TYR:CD2	2.45	0.51
9:U:195:VAL:HG13	9:U:219:ALA:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:203:GLN:OE1	9:U:241:LEU:HD11	2.10	0.51
9:U:209:LYS:HZ3	9:U:209:LYS:C	2.13	0.51
9:U:211:GLU:HB3	9:U:216:THR:HA	1.92	0.51
9:V:177:LEU:HG	9:V:180:TYR:CD1	2.46	0.51
10:X:95:PHE:CE2	10:X:172:LEU:HD12	2.44	0.51
10:X:167:GLY:O	10:X:169:THR:N	2.43	0.51
10:X:202:MET:HA	10:X:211:THR:O	2.10	0.51
10:Y:45:TYR:HE2	10:Y:75:PHE:CG	2.00	0.51
1:1:72:DT:H72	10:X:188:VAL:HG13	1.93	0.51
2:2:105:DG:H2"	2:2:106:DT:C6	2.46	0.51
3:A:70:HIS:O	3:A:71:ASN:C	2.53	0.51
3:A:99:THR:HG23	3:A:100:ARG:C	2.36	0.51
3:A:264:PRO:HG2	3:A:265:LYS:HG3	1.93	0.51
3:A:452:ARG:HG2	3:A:460:GLU:HB3	1.92	0.51
3:A:489:ARG:HD3	3:A:512:TYR:CD2	2.45	0.51
3:A:616:THR:O	3:A:619:GLY:HA3	2.08	0.51
3:A:828:LEU:HD13	3:A:832:ALA:O	2.11	0.51
3:A:927:SER:O	3:A:930:ARG:HB3	2.11	0.51
3:A:940:ARG:O	3:A:943:THR:HG22	2.10	0.51
3:A:1038:LEU:HD12	6:E:352:LYS:HE2	1.93	0.51
3:A:1038:LEU:O	3:A:1039:THR:C	2.54	0.51
3:A:1051:ALA:HA	3:A:1061:ILE:CD1	2.35	0.51
4:B:73:ILE:HG13	4:B:74:ARG:N	2.26	0.51
4:B:77:GLU:HA	4:B:90:ARG:NH2	2.26	0.51
4:B:374:GLU:HB2	4:B:416:GLN:OE1	2.08	0.51
4:B:940:ILE:HA	4:B:966:ILE:HD12	1.92	0.51
4:B:1109:CYS:O	4:B:1112:HIS:HB3	2.10	0.51
4:B:1127:MET:O	4:B:1131:SER:OG	2.28	0.51
5:C:68:VAL:O	5:C:69:PRO:O	2.28	0.51
5:D:48:LEU:CD1	5:D:171:MET:HG2	2.41	0.51
5:D:154:GLY:C	5:D:156:GLU:N	2.69	0.51
6:E:71:CYS:HA	6:E:91:VAL:HG21	1.92	0.51
8:G:111:LEU:HB2	8:G:112:GLU:OE1	2.10	0.51
8:G:194:ALA:O	8:G:196:GLU:N	2.43	0.51
9:S:11:ALA:HB2	9:S:24:LYS:HZ3	1.74	0.51
9:S:70:ILE:HD13	9:T:70:ILE:HG13	1.91	0.51
9:S:128:SER:HB2	9:S:201:GLY:CA	2.41	0.51
9:S:260:PRO:O	9:S:261:LEU:HB3	2.11	0.51
9:T:143:ALA:HB3	9:T:278:MET:HE1	1.93	0.51
9:T:161:VAL:HB	9:T:276:VAL:O	2.10	0.51
9:T:209:LYS:HA	9:T:212:ARG:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:105:LEU:CD2	9:U:302:PRO:HA	2.41	0.51
9:U:287:ILE:O	9:U:291:LYS:HG2	2.11	0.51
9:V:95:ALA:HB1	9:V:139:LEU:HD23	1.93	0.51
9:V:169:LEU:CB	9:V:261:LEU:HD22	2.41	0.51
9:V:180:TYR:HA	9:V:187:GLU:CG	2.37	0.51
9:V:203:GLN:O	9:V:203:GLN:HG3	2.10	0.51
10:X:67:ALA:HA	10:X:133:THR:OG1	2.10	0.51
10:Y:45:TYR:CD2	10:Y:75:PHE:CD1	2.95	0.51
10:Y:65:THR:C	10:Y:67:ALA:N	2.66	0.51
3:A:68:LEU:HD23	3:A:98:PRO:HD2	1.92	0.51
3:A:236:MET:C	3:A:238:LEU:N	2.68	0.51
3:A:281:LEU:N	3:A:281:LEU:CD2	2.72	0.51
3:A:566:LEU:HD21	3:A:714:TYR:H	1.74	0.51
3:A:932:VAL:CG2	3:A:933:HIS:H	2.22	0.51
3:A:961:ASP:OD1	3:A:968:PHE:HD2	1.93	0.51
3:A:990:ILE:HG12	6:E:378:GLU:HG2	1.93	0.51
3:A:991:HIS:ND1	3:A:992:ALA:N	2.58	0.51
4:B:3:PHE:CD1	6:E:564:VAL:HG23	2.45	0.51
4:B:97:THR:O	4:B:98:TRP:C	2.53	0.51
4:B:1175:GLN:O	4:B:1179:ALA:N	2.44	0.51
4:B:1197:ILE:O	4:B:1201:SER:N	2.41	0.51
4:B:1248:GLY:HA2	7:F:29:TYR:CZ	2.43	0.51
5:C:53:VAL:HG22	5:C:142:ILE:CD1	2.41	0.51
5:C:57:ARG:HA	5:C:162:ASP:HB2	1.92	0.51
5:C:67:THR:HA	5:C:74:ASP:CG	2.35	0.51
5:C:96:ILE:HG22	5:C:97:GLY:O	2.10	0.51
5:D:87:LEU:N	5:D:121:ILE:HG12	2.26	0.51
5:D:126:TYR:HH	5:D:128:ALA:HA	1.76	0.51
6:E:11:TYR:N	6:E:11:TYR:CD1	2.76	0.51
6:E:39:VAL:HG22	6:E:40:THR:N	2.26	0.51
6:E:434:PRO:CG	6:E:436:LEU:HD21	2.41	0.51
6:E:549:GLN:O	6:E:549:GLN:HG3	2.11	0.51
8:G:116:VAL:HG13	8:G:119:ARG:HH21	1.76	0.51
8:G:193:ARG:NE	8:G:193:ARG:HA	2.23	0.51
8:G:284:ILE:HG22	8:G:285:SER:N	2.25	0.51
8:G:300:ASP:C	8:G:301:PHE:CG	2.86	0.51
9:S:12:ILE:HA	9:S:15:THR:O	2.11	0.51
9:S:76:THR:O	9:S:79:GLN:HB2	2.11	0.51
9:T:95:ALA:HB3	9:T:142:LEU:O	2.10	0.51
9:T:142:LEU:HB3	9:T:285:LEU:HD13	1.93	0.51
9:T:156:ASP:HA	9:T:291:LYS:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:159:VAL:O	9:T:160:GLU:CG	2.58	0.51
9:T:196:PHE:CD2	9:T:197:LYS:HG2	2.45	0.51
9:T:293:PHE:CD1	9:T:297:VAL:HG22	2.37	0.51
9:U:260:PRO:C	9:U:261:LEU:HD23	2.35	0.51
9:V:172:ALA:H	9:V:177:LEU:HB3	1.75	0.51
9:V:226:LEU:O	9:V:226:LEU:HD23	2.11	0.51
10:X:166:ASP:HA	10:X:213:HIS:NE2	2.26	0.51
10:X:175:SER:CA	10:X:208:LYS:HE2	2.35	0.51
10:Y:194:LEU:HG	10:Y:198:ARG:NE	2.25	0.51
3:A:44:GLU:O	3:A:48:GLU:CD	2.54	0.51
3:A:96:TYR:HD1	3:A:115:PHE:HA	1.76	0.51
3:A:159:ARG:HG2	3:A:159:ARG:HH11	1.76	0.51
3:A:216:PRO:C	3:A:217:GLU:OE1	2.54	0.51
3:A:271:ARG:O	3:A:272:VAL:C	2.50	0.51
3:A:411:THR:HB	3:A:413:GLU:OE1	2.10	0.51
3:A:494:ASP:C	3:A:495:ILE:HG12	2.35	0.51
3:A:823:GLU:O	3:A:825:GLY:N	2.44	0.51
3:A:947:TRP:C	3:A:949:TYR:N	2.68	0.51
4:B:43:TYR:CE2	6:E:520:LEU:HD12	2.45	0.51
4:B:503:ARG:NH1	4:B:505:GLU:HG2	2.23	0.51
4:B:512:GLU:CD	4:B:873:ARG:HD3	2.35	0.51
4:B:583:GLN:HA	4:B:814:ALA:CB	2.40	0.51
4:B:905:MET:HA	4:B:967:ARG:HA	1.93	0.51
4:B:1111:SER:O	4:B:1115:GLN:N	2.44	0.51
4:B:1239:VAL:C	4:B:1241:ILE:N	2.67	0.51
5:C:189:ILE:O	5:C:191:LYS:N	2.44	0.51
5:D:218:VAL:HG13	5:D:219:ASP:N	2.25	0.51
6:E:420:GLU:CA	6:E:448:LEU:HD22	2.38	0.51
6:E:573:PRO:HA	6:E:586:VAL:HG11	1.93	0.51
8:G:206:PHE:C	8:G:210:ALA:H	2.18	0.51
8:G:337:LEU:CD1	8:G:369:GLU:HA	2.38	0.51
8:G:359:ASN:O	8:G:360:VAL:C	2.53	0.51
9:S:69:LYS:HA	9:S:72:LEU:CD2	2.40	0.51
9:T:18:PHE:HB3	9:T:36:ILE:HD11	1.93	0.51
9:T:66:ARG:HG2	9:T:70:ILE:HG22	1.92	0.51
9:T:195:VAL:HG21	9:T:207:GLN:N	2.25	0.51
9:T:210:PHE:O	9:T:214:GLU:N	2.44	0.51
9:U:28:THR:CG2	9:U:29:GLN:NE2	2.72	0.51
9:U:111:LYS:HD3	9:U:292:HIS:HD2	1.75	0.51
9:U:158:VAL:HG23	9:U:295:GLN:OE1	2.10	0.51
9:U:161:VAL:CG2	9:U:162:LEU:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:204:ARG:O	9:U:207:GLN:CG	2.58	0.51
9:U:280:THR:N	9:U:294:TRP:HD1	2.08	0.51
9:U:296:LEU:CD1	9:U:300:ASN:ND2	2.74	0.51
9:V:9:PHE:CE2	9:V:47:LEU:HD22	2.46	0.51
9:V:126:LEU:HD13	9:V:139:LEU:HD22	1.93	0.51
9:V:201:GLY:O	9:V:205:LEU:HB2	2.10	0.51
9:V:206:VAL:O	9:V:209:LYS:HB2	2.11	0.51
10:X:78:LEU:HG	10:X:81:LEU:HB2	1.93	0.51
10:X:175:SER:HA	10:X:208:LYS:CE	2.35	0.51
1:1:37:DA:C2	2:2:90:DG:N2	2.79	0.50
3:A:116:ILE:O	3:A:367:PRO:HB3	2.11	0.50
3:A:216:PRO:HD2	3:A:219:PHE:HA	1.92	0.50
3:A:423:HIS:HD2	3:A:425:SER:HG	1.56	0.50
3:A:428:GLY:O	3:A:461:THR:CG2	2.58	0.50
3:A:463:PHE:CD2	3:A:481:THR:N	2.79	0.50
3:A:498:ASP:O	3:A:501:GLY:N	2.44	0.50
3:A:567:LEU:HD23	3:A:715:THR:OG1	2.11	0.50
3:A:616:THR:O	3:A:619:GLY:C	2.53	0.50
3:A:707:ARG:O	3:A:711:ASP:N	2.39	0.50
3:A:811:LYS:HE2	5:C:152:GLU:CG	2.41	0.50
3:A:852:MET:CA	3:A:981:LYS:HA	2.40	0.50
4:B:90:ARG:O	4:B:93:LYS:HB2	2.11	0.50
4:B:140:LEU:HD23	4:B:163:PHE:CE2	2.46	0.50
4:B:195:TYR:N	4:B:198:ARG:HD3	2.24	0.50
4:B:204:SER:OG	4:B:320:ALA:HB2	2.11	0.50
4:B:210:ARG:C	4:B:211:GLU:HG2	2.35	0.50
4:B:289:GLU:HA	4:B:1171:ARG:NH2	2.26	0.50
4:B:350:ARG:NH2	4:B:354:ASP:OD2	2.43	0.50
4:B:441:ALA:HA	4:B:998:VAL:HG23	1.92	0.50
4:B:641:LYS:O	4:B:680:ILE:HB	2.10	0.50
4:B:778:ASP:C	4:B:780:GLU:N	2.68	0.50
4:B:974:VAL:HG12	4:B:975:SER:N	2.26	0.50
4:B:1051:VAL:HG12	4:B:1052:ILE:N	2.26	0.50
4:B:1177:ASN:O	4:B:1187:ARG:HG3	2.12	0.50
5:C:96:ILE:HG22	5:C:97:GLY:N	2.26	0.50
5:C:141:ARG:CZ	5:C:155:ARG:HD2	2.40	0.50
5:D:77:GLU:HA	5:D:80:MET:CG	2.42	0.50
5:D:96:ILE:HG22	5:D:97:GLY:N	2.26	0.50
6:E:385:GLN:NE2	6:E:408:ILE:HD13	2.25	0.50
6:E:487:ALA:O	6:E:488:ARG:C	2.54	0.50
6:E:587:LEU:HA	6:E:592:ARG:NH1	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:62:ILE:O	7:F:63:ILE:C	2.54	0.50
8:G:235:LEU:O	8:G:239:ILE:HG23	2.11	0.50
9:S:178:ALA:C	9:S:259:ARG:CG	2.83	0.50
9:T:142:LEU:HD11	9:T:293:PHE:CD2	2.46	0.50
9:T:180:TYR:CG	9:T:188:LEU:CD2	2.87	0.50
9:U:238:LEU:C	9:U:239:ILE:HG12	2.35	0.50
9:V:10:LEU:HD11	9:V:64:LEU:CG	2.42	0.50
9:V:132:LEU:HD11	9:V:150:PHE:HB2	1.93	0.50
9:V:159:VAL:CA	9:V:278:MET:CG	2.89	0.50
10:Y:82:THR:HB	10:Y:86:SER:HA	1.92	0.50
3:A:215:HIS:ND1	3:A:219:PHE:CZ	2.79	0.50
3:A:396:LEU:O	3:A:398:HIS:N	2.43	0.50
3:A:495:ILE:HD12	3:A:508:VAL:HG11	1.93	0.50
3:A:504:ILE:O	3:A:505:GLY:C	2.53	0.50
3:A:767:ASP:C	3:A:806:VAL:HG12	2.35	0.50
3:A:782:PRO:O	3:A:783:PRO:C	2.52	0.50
3:A:822:ARG:NH1	8:G:274:ARG:NH2	2.58	0.50
3:A:855:ARG:CZ	3:A:978:TYR:CE2	2.94	0.50
3:A:1068:GLU:C	3:A:1070:PHE:N	2.63	0.50
4:B:80:TYR:CD2	4:B:90:ARG:NH2	2.77	0.50
4:B:195:TYR:N	4:B:198:ARG:HD2	2.25	0.50
4:B:295:CYS:O	4:B:298:CYS:SG	2.69	0.50
4:B:594:ASP:C	4:B:597:ARG:HD3	2.36	0.50
4:B:694:VAL:CG2	4:B:699:ALA:HB3	2.41	0.50
4:B:695:ASP:OD2	4:B:734:PRO:HB3	2.12	0.50
4:B:917:LYS:O	4:B:919:GLY:N	2.45	0.50
4:B:982:ILE:HG13	4:B:986:ASP:CB	2.42	0.50
4:B:1011:LEU:N	4:B:1012:PRO:HD2	2.26	0.50
4:B:1038:VAL:HG13	4:B:1040:TYR:H	1.76	0.50
4:B:1166:GLU:HG3	4:B:1168:VAL:HG22	1.93	0.50
5:C:5:GLN:NE2	5:C:27:PRO:HD2	2.24	0.50
5:C:28:LEU:O	5:C:30:ARG:N	2.44	0.50
5:D:108:THR:OG1	5:D:111:HIS:CB	2.60	0.50
6:E:116:TRP:O	6:E:117:TYR:CG	2.65	0.50
6:E:164:GLU:O	6:E:168:LEU:HD13	2.10	0.50
6:E:259:MET:CG	6:E:269:THR:HA	2.37	0.50
6:E:276:TYR:CE1	6:E:313:LEU:HD11	2.46	0.50
6:E:286:LEU:C	6:E:290:GLN:NE2	2.69	0.50
6:E:477:VAL:HG13	6:E:478:PRO:HD2	1.92	0.50
6:E:570:ASP:O	6:E:588:TYR:HB3	2.10	0.50
6:E:608:THR:HG21	6:E:612:ARG:NE	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:21:LEU:HD11	7:F:66:SER:CB	2.41	0.50
8:G:185:GLN:HE22	8:G:186:GLU:CG	2.22	0.50
8:G:223:ALA:N	8:G:225:GLN:H	2.09	0.50
9:S:136:LYS:O	9:S:153:THR:N	2.41	0.50
9:S:224:ASN:OD1	9:U:124:THR:HG22	2.11	0.50
9:T:32:ILE:O	9:T:36:ILE:N	2.44	0.50
9:T:36:ILE:HG22	9:T:46:GLU:OE2	2.02	0.50
9:T:126:LEU:HD12	9:T:131:ALA:HB1	1.92	0.50
9:T:230:ARG:HA	9:T:233:VAL:HB	1.92	0.50
9:T:236:GLY:CA	9:T:239:ILE:HD11	2.37	0.50
9:U:100:LEU:HB3	9:U:105:LEU:HD11	1.92	0.50
9:U:197:LYS:HB3	9:U:200:TYR:CZ	2.46	0.50
9:U:296:LEU:CB	9:U:301:ILE:HG13	2.37	0.50
10:X:157:CYS:HB3	10:X:169:THR:O	2.10	0.50
10:X:171:ASP:O	10:X:172:LEU:CD2	2.59	0.50
1:1:52:DA:C2	2:2:75:DA:C2	2.98	0.50
3:A:256:LEU:C	3:A:258:ASP:OD1	2.54	0.50
3:A:258:ASP:CA	3:A:262:PHE:CD2	2.95	0.50
3:A:511:ARG:HG2	3:A:516:PHE:HB3	1.92	0.50
3:A:552:ARG:NH2	3:A:892:ARG:CB	2.73	0.50
3:A:564:VAL:HG21	3:A:981:LYS:HG3	1.93	0.50
3:A:724:ILE:O	3:A:836:VAL:CB	2.55	0.50
3:A:1033:THR:O	3:A:1034:LEU:C	2.51	0.50
3:A:1094:ASP:CG	3:A:1095:GLY:N	2.59	0.50
4:B:461:GLU:CD	4:B:473:THR:HG1	2.11	0.50
4:B:489:ASN:CG	4:B:895:ARG:CZ	2.85	0.50
4:B:882:GLY:HA2	4:B:900:LEU:N	2.26	0.50
4:B:919:GLY:CA	4:B:941:VAL:HA	2.42	0.50
4:B:973:ARG:CG	4:B:974:VAL:H	2.24	0.50
5:C:42:ARG:NE	5:D:35:THR:HG22	2.21	0.50
5:C:52:ALA:HB3	5:C:170:PHE:CE1	2.45	0.50
5:C:87:LEU:N	5:C:121:ILE:HG12	2.26	0.50
5:C:108:THR:OG1	5:C:111:HIS:CB	2.60	0.50
6:E:65:PRO:HD2	6:E:99:ARG:HB2	1.93	0.50
6:E:125:ILE:HD13	6:E:244:MET:SD	2.51	0.50
6:E:276:TYR:CE1	6:E:313:LEU:HD21	2.46	0.50
6:E:278:ARG:O	6:E:279:VAL:C	2.53	0.50
6:E:292:ILE:HG13	6:E:294:ALA:H	1.76	0.50
6:E:523:GLU:HA	6:E:553:HIS:HB2	1.94	0.50
6:E:555:TYR:HD1	6:E:609:THR:N	2.08	0.50
6:E:623:LEU:HD12	6:E:624:ALA:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:21:LEU:HD13	7:F:69:LEU:HD12	1.93	0.50
8:G:92:ILE:HD13	8:G:160:GLN:HG2	1.94	0.50
8:G:107:ILE:HA	8:G:110:LEU:HD21	1.93	0.50
8:G:345:ASP:O	8:G:346:GLY:C	2.52	0.50
9:S:132:LEU:CD2	9:S:150:PHE:N	2.71	0.50
9:T:28:THR:OG1	9:T:31:THR:OG1	2.16	0.50
9:T:32:ILE:HD13	9:T:32:ILE:N	2.26	0.50
9:T:167:ILE:HG21	9:T:206:VAL:HG22	1.93	0.50
9:T:180:TYR:HB3	9:T:188:LEU:CG	2.33	0.50
9:T:193:GLN:NE2	9:T:210:PHE:CE2	2.73	0.50
9:V:183:VAL:CB	9:V:261:LEU:HD13	2.22	0.50
10:X:64:ILE:C	10:X:66:VAL:HG23	2.36	0.50
10:X:144:ASP:OD1	10:X:145:MET:N	2.44	0.50
10:X:165:ALA:HB3	10:X:209:LYS:HB2	1.93	0.50
10:Y:204:SER:HB3	10:Y:206:HIS:HE1	1.76	0.50
2:2:98:DA:H2"	2:2:99:DA:C8	2.46	0.50
3:A:31:ILE:HG23	3:A:32:GLU:N	2.26	0.50
3:A:171:ALA:C	3:A:172:TRP:HD1	2.19	0.50
3:A:176:GLU:OE2	3:A:184:TRP:HB2	2.11	0.50
3:A:278:ASN:HB3	3:A:285:VAL:CG2	2.41	0.50
3:A:441:ALA:C	3:A:443:LEU:N	2.65	0.50
3:A:597:ASP:OD1	3:A:597:ASP:C	2.52	0.50
3:A:716:SER:HB2	3:A:718:HIS:HE2	1.76	0.50
3:A:905:TRP:CZ3	3:A:974:ILE:HG13	2.46	0.50
4:B:54:ASP:OD1	4:B:54:ASP:C	2.47	0.50
4:B:87:GLU:O	4:B:91:PHE:CB	2.59	0.50
4:B:227:GLU:O	4:B:228:GLY:C	2.53	0.50
4:B:282:VAL:HG23	4:B:283:ARG:HA	1.93	0.50
4:B:503:ARG:NH2	4:B:505:GLU:HB3	2.27	0.50
4:B:511:ALA:HB3	4:B:876:ILE:HG13	1.89	0.50
4:B:520:GLY:HA3	4:B:539:ILE:HD13	1.94	0.50
4:B:533:SER:HB3	4:B:535:ARG:HG2	1.92	0.50
4:B:572:PHE:CE2	4:B:591:LEU:HD13	2.46	0.50
4:B:753:PRO:O	4:B:755:THR:N	2.44	0.50
4:B:937:SER:HB2	4:B:971:PRO:CD	2.42	0.50
4:B:1017:LEU:HD12	4:B:1017:LEU:C	2.36	0.50
4:B:1107:TYR:O	4:B:1110:ALA:HB3	2.11	0.50
4:B:1110:ALA:O	4:B:1113:ALA:HB3	2.11	0.50
5:C:56:VAL:C	5:C:57:ARG:CZ	2.85	0.50
5:C:119:GLU:CD	5:C:121:ILE:HA	2.36	0.50
5:D:140:PHE:N	5:D:140:PHE:CD1	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:221:PHE:CZ	5:D:222:ASN:HB2	2.46	0.50
6:E:120:GLY:O	6:E:121:ILE:C	2.54	0.50
6:E:251:VAL:HG13	6:E:276:TYR:CE2	2.46	0.50
6:E:434:PRO:HG2	6:E:436:LEU:HD23	1.91	0.50
6:E:442:GLN:HB2	6:E:464:PHE:HE1	1.76	0.50
6:E:608:THR:HG21	6:E:612:ARG:HD3	1.89	0.50
8:G:80:ASP:HB3	8:G:83:ARG:CD	2.41	0.50
8:G:102:GLU:HA	8:G:105:ARG:HD3	1.93	0.50
8:G:225:GLN:OE1	8:G:226:SER:N	2.43	0.50
9:T:141:ASP:HA	9:T:284:ARG:CG	2.31	0.50
9:T:166:PRO:HB3	9:T:272:LEU:O	2.11	0.50
9:T:168:GLU:HA	9:T:260:PRO:CA	2.37	0.50
9:T:194:VAL:HG11	9:T:222:GLU:OE2	2.12	0.50
9:T:209:LYS:HZ2	9:T:273:THR:C	2.19	0.50
9:U:31:THR:HA	9:U:34:ARG:NH1	2.25	0.50
9:U:217:LEU:O	9:U:218:GLN:C	2.53	0.50
9:U:279:VAL:O	9:U:280:THR:C	2.54	0.50
9:V:10:LEU:HD11	9:V:64:LEU:HD23	1.92	0.50
9:V:12:ILE:CD1	9:V:17:SER:O	2.58	0.50
10:X:57:VAL:HG12	10:X:90:TYR:CA	2.42	0.50
10:X:81:LEU:C	10:X:83:GLY:N	2.67	0.50
10:X:82:THR:HB	10:X:86:SER:HA	1.92	0.50
10:X:209:LYS:O	10:X:210:ILE:C	2.55	0.50
10:Y:148:ARG:HH22	10:Y:183:ILE:CD1	2.20	0.50
10:Y:166:ASP:OD1	10:Y:201:LYS:O	2.30	0.50
3:A:56:ILE:CG2	3:A:57:THR:N	2.74	0.50
3:A:81:VAL:HG11	3:A:123:THR:HG21	1.93	0.50
3:A:95:MET:HG3	3:A:116:ILE:HG13	1.94	0.50
3:A:264:PRO:C	3:A:266:ARG:N	2.69	0.50
3:A:277:LEU:O	3:A:278:ASN:C	2.54	0.50
3:A:611:SER:CB	3:A:613:GLN:H	2.24	0.50
3:A:675:THR:HG23	3:A:676:GLU:C	2.35	0.50
3:A:738:ARG:HD2	3:A:755:GLY:HA2	1.92	0.50
3:A:825:GLY:O	3:A:827:GLU:OE2	2.28	0.50
3:A:932:VAL:CG2	3:A:933:HIS:CE1	2.94	0.50
4:B:183:LEU:O	4:B:184:VAL:C	2.54	0.50
4:B:265:SER:N	4:B:268:LEU:HD12	2.26	0.50
4:B:676:GLN:HA	4:B:681:LEU:HB2	1.92	0.50
4:B:694:VAL:O	4:B:694:VAL:HG13	2.12	0.50
4:B:726:GLN:CG	4:B:729:GLU:HB2	2.41	0.50
4:B:1041:GLY:HA2	4:B:1051:VAL:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1171:ARG:O	4:B:1174:GLU:OE2	2.29	0.50
5:D:43:VAL:HA	5:D:46:SER:HB2	1.92	0.50
5:D:83:LYS:HZ1	5:D:167:ASP:C	2.19	0.50
5:D:97:GLY:O	5:D:139:GLU:HA	2.12	0.50
5:D:220:LEU:O	5:D:223:PRO:HD3	2.12	0.50
6:E:194:LEU:HB3	6:E:245:VAL:HG11	1.94	0.50
6:E:315:ASP:OD1	6:E:315:ASP:C	2.55	0.50
6:E:592:ARG:HB3	6:E:605:TYR:HD2	1.77	0.50
8:G:84:LEU:O	8:G:88:GLU:OE2	2.28	0.50
8:G:110:LEU:HD22	8:G:155:LYS:HD3	1.94	0.50
8:G:269:THR:O	8:G:272:LYS:N	2.45	0.50
8:G:270:ILE:C	8:G:273:LEU:H	2.11	0.50
9:S:223:VAL:HG12	9:S:223:VAL:O	2.12	0.50
9:T:220:ALA:HB3	9:T:238:LEU:HD13	1.92	0.50
9:V:49:HIS:CE1	9:V:57:THR:CB	2.94	0.50
9:V:172:ALA:H	9:V:177:LEU:HB2	1.77	0.50
9:V:188:LEU:HD13	9:V:213:LEU:CD1	2.41	0.50
10:Y:78:LEU:HD22	10:Y:88:ARG:HA	1.92	0.50
1:1:23:DC:H41	9:U:34:ARG:NH1	2.10	0.50
3:A:86:ARG:HA	3:A:818:ARG:NH1	2.27	0.50
3:A:178:ASP:O	3:A:180:ASN:CG	2.55	0.50
3:A:576:THR:O	3:A:577:GLY:C	2.54	0.50
3:A:673:SER:C	3:A:674:SER:OG	2.50	0.50
3:A:762:TRP:CZ2	3:A:811:LYS:HG3	2.41	0.50
3:A:934:GLY:O	3:A:935:LYS:C	2.53	0.50
3:A:960:TYR:CA	3:A:967:ALA:HA	2.20	0.50
3:A:970:ARG:HH21	4:B:49:VAL:HG23	1.69	0.50
4:B:63:ARG:NH2	4:B:67:GLU:HB3	2.10	0.50
4:B:96:ASP:HA	4:B:423:LEU:HD22	1.93	0.50
5:D:7:GLU:O	5:D:8:CYS:C	2.52	0.50
5:D:19:HIS:CD2	5:D:200:THR:HG22	2.42	0.50
5:D:40:LEU:O	5:D:44:LEU:N	2.36	0.50
6:E:28:ARG:CZ	6:E:102:ARG:HG2	2.42	0.50
6:E:59:CYS:HB2	6:E:63:PHE:HB2	1.92	0.50
6:E:247:THR:C	6:E:248:VAL:HG23	2.37	0.50
6:E:431:ASN:HD21	6:E:435:THR:HA	1.77	0.50
6:E:585:THR:HG22	6:E:592:ARG:NH2	2.26	0.50
8:G:218:ILE:CG1	8:G:219:THR:H	2.18	0.50
8:G:254:GLY:O	8:G:255:ARG:C	2.54	0.50
8:G:325:VAL:O	8:G:327:ASP:N	2.45	0.50
9:S:39:LEU:C	9:S:41:ALA:N	2.70	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:88:LYS:HB2	9:S:91:GLU:HG3	1.92	0.50
9:S:136:LYS:CG	9:S:150:PHE:C	2.84	0.50
9:S:207:GLN:NE2	9:S:217:LEU:HD22	2.26	0.50
9:T:122:ARG:HB3	9:T:124:THR:HG23	1.93	0.50
9:T:140:VAL:HG12	9:T:141:ASP:N	2.26	0.50
9:T:180:TYR:HD1	9:T:188:LEU:HD23	1.75	0.50
9:T:206:VAL:C	9:T:209:LYS:H	2.20	0.50
9:U:127:GLY:HA3	9:U:200:TYR:CG	2.46	0.50
9:V:144:ILE:HA	9:V:162:LEU:CD1	2.32	0.50
9:V:197:LYS:HE3	9:V:224:ASN:ND2	2.26	0.50
9:V:203:GLN:NE2	9:V:207:GLN:HA	2.23	0.50
10:X:100:LEU:O	10:X:101:LEU:CB	2.60	0.50
10:X:108:VAL:O	10:X:111:ALA:HB3	2.11	0.50
10:X:123:LEU:CD2	10:Y:123:LEU:HD23	2.42	0.50
10:Y:57:VAL:HG12	10:Y:90:TYR:CA	2.42	0.50
10:Y:153:LEU:O	10:Y:157:CYS:N	2.45	0.50
10:Y:171:ASP:O	10:Y:172:LEU:CD2	2.59	0.50
10:Y:205:ILE:HG23	10:Y:210:ILE:HD11	1.93	0.50
3:A:304:LEU:HA	3:A:307:LEU:HD21	1.92	0.50
3:A:535:VAL:HB	3:A:539:THR:OG1	2.12	0.50
3:A:581:GLN:CD	3:A:582:GLY:N	2.69	0.50
3:A:787:LEU:HD23	3:A:787:LEU:H	1.76	0.50
3:A:913:ARG:CZ	3:A:915:LYS:HE2	2.41	0.50
3:A:999:SER:C	8:G:303:GLU:HB2	2.37	0.50
4:B:12:GLN:O	4:B:13:LEU:C	2.51	0.50
4:B:92:GLN:O	4:B:96:ASP:CG	2.54	0.50
4:B:370:THR:HB	4:B:375:ASP:HB2	1.93	0.50
4:B:375:ASP:OD1	4:B:375:ASP:N	2.41	0.50
4:B:479:LEU:CG	4:B:481:TRP:CH2	2.86	0.50
4:B:554:GLN:N	4:B:561:ASN:CG	2.68	0.50
4:B:570:GLN:HA	4:B:572:PHE:HE2	1.76	0.50
4:B:575:ARG:H	4:B:588:VAL:C	2.20	0.50
4:B:637:HIS:O	4:B:683:GLU:HA	2.12	0.50
4:B:1207:PHE:CG	4:B:1208:ILE:N	2.80	0.50
4:B:1238:ASN:HB2	4:B:1243:ARG:HB3	1.94	0.50
5:D:120:VAL:HB	5:D:123:PRO:CA	2.42	0.50
6:E:145:TYR:HH	6:E:167:TRP:CD1	2.29	0.50
6:E:206:ALA:HB1	6:E:210:ARG:HH12	1.76	0.50
6:E:224:LEU:CD2	6:E:224:LEU:H	2.24	0.50
6:E:254:PRO:HA	6:E:257:ARG:CZ	2.42	0.50
6:E:338:ILE:N	6:E:339:GLU:OE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:580:GLU:O	6:E:581:ASP:C	2.54	0.50
6:E:592:ARG:HD2	6:E:593:VAL:O	2.12	0.50
8:G:85:TYR:CE2	8:G:184:ILE:HD11	2.47	0.50
8:G:186:GLU:HA	8:G:189:LEU:HD12	1.93	0.50
9:S:169:LEU:HD22	9:S:188:LEU:HD23	1.92	0.50
9:T:127:GLY:HA3	9:T:196:PHE:CZ	2.47	0.50
9:T:158:VAL:N	9:T:281:THR:HA	2.26	0.50
9:T:170:LEU:HG	9:T:233:VAL:CG2	2.39	0.50
9:T:183:VAL:HG12	9:T:184:PRO:HG2	1.94	0.50
9:U:14:GLU:HG2	9:U:15:THR:N	2.26	0.50
9:V:66:ARG:O	9:V:69:LYS:N	2.44	0.50
9:V:161:VAL:HB	9:V:298:ARG:HG3	1.94	0.50
9:V:166:PRO:HA	9:V:263:ASN:HB2	1.94	0.50
9:V:203:GLN:OE1	9:V:206:VAL:HB	2.10	0.50
9:V:266:LEU:HB3	9:V:267:PRO:HD3	1.94	0.50
9:V:293:PHE:HA	9:V:296:LEU:HD12	1.93	0.50
10:X:126:LEU:CD2	10:Y:130:ILE:HG13	2.20	0.50
10:X:214:LYS:HB2	10:X:217:THR:HG1	1.75	0.50
10:Y:78:LEU:HG	10:Y:81:LEU:HB2	1.93	0.50
1:1:100:DA:N1	8:G:202:LYS:HE3	2.20	0.50
2:2:103:DG:H2'	2:2:104:DC:C2	2.46	0.50
3:A:96:TYR:CD1	3:A:115:PHE:HA	2.46	0.50
3:A:299:ALA:C	3:A:302:ASP:OD1	2.54	0.50
3:A:309:TYR:HD2	3:A:311:ILE:HG12	1.76	0.50
3:A:376:GLU:O	3:A:379:GLY:N	2.45	0.50
3:A:488:LEU:HD11	3:A:524:VAL:C	2.37	0.50
3:A:726:ALA:O	3:A:833:ASN:ND2	2.45	0.50
3:A:737:THR:CB	3:A:773:VAL:HG22	2.25	0.50
3:A:752:ASP:HB3	3:A:756:ILE:HG22	1.90	0.50
3:A:1031:ALA:O	3:A:1034:LEU:N	2.44	0.50
3:A:1050:GLU:O	3:A:1053:ASN:HB2	2.12	0.50
3:A:1061:ILE:HD12	3:A:1062:PRO:CD	2.34	0.50
4:B:169:VAL:HG23	4:B:170:THR:H	1.75	0.50
4:B:245:GLY:HA2	4:B:260:ARG:CA	2.42	0.50
4:B:249:ILE:O	4:B:250:HIS:O	2.30	0.50
4:B:417:GLN:C	4:B:419:LYS:H	2.18	0.50
4:B:623:VAL:O	4:B:623:VAL:HG23	2.11	0.50
4:B:815:ASP:HA	4:B:832:LEU:O	2.11	0.50
5:C:38:ASN:C	5:C:41:ARG:H	2.18	0.50
5:C:44:LEU:HD23	5:C:45:LEU:CG	2.42	0.50
5:C:119:GLU:OE2	5:C:121:ILE:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:9:VAL:CG2	5:D:23:PHE:HA	2.42	0.50
5:D:119:GLU:OE2	5:D:121:ILE:HA	2.12	0.50
5:D:120:VAL:O	5:D:121:ILE:C	2.54	0.50
6:E:377:ARG:HG3	6:E:449:VAL:O	2.12	0.50
6:E:433:ALA:HB3	6:E:434:PRO:HD3	1.94	0.50
6:E:459:LEU:O	6:E:462:PRO:HD3	2.12	0.50
7:F:45:GLU:CG	7:F:46:GLU:N	2.72	0.50
7:F:59:LEU:HA	7:F:62:ILE:CG1	2.42	0.50
7:F:64:GLU:HG2	7:F:65:MET:N	2.25	0.50
8:G:82:ILE:HG23	8:G:180:PHE:CE2	2.46	0.50
8:G:138:GLN:C	8:G:139:LEU:HG	2.37	0.50
8:G:301:PHE:O	8:G:302:ILE:CG1	2.56	0.50
8:G:370:ALA:CA	8:G:373:LEU:HB3	2.38	0.50
9:S:121:LEU:O	9:U:221:LEU:HA	2.11	0.50
9:U:66:ARG:HG2	9:U:70:ILE:HG22	1.92	0.50
9:U:99:SER:HB3	9:U:274:ARG:NH2	2.27	0.50
9:U:288:PRO:HA	9:U:291:LYS:HG3	1.82	0.50
9:U:296:LEU:HD12	9:U:301:ILE:H	1.74	0.50
9:V:226:LEU:HD12	9:V:242:LEU:HG	1.93	0.50
2:2:104:DC:C2'	2:2:105:DG:C8	2.95	0.50
3:A:103:ASN:ND2	3:A:108:ASP:OD1	2.45	0.50
3:A:417:PHE:C	3:A:420:ARG:H	2.07	0.50
3:A:463:PHE:O	3:A:465:PRO:HD3	2.11	0.50
3:A:558:ASN:O	3:A:561:ARG:HB2	2.12	0.50
3:A:631:LYS:O	3:A:632:GLY:C	2.54	0.50
3:A:675:THR:HG1	3:A:677:GLY:H	1.60	0.50
3:A:772:LYS:HD2	3:A:774:THR:CG2	2.42	0.50
3:A:811:LYS:HE2	5:C:152:GLU:HG2	1.94	0.50
3:A:930:ARG:O	3:A:931:ILE:C	2.54	0.50
3:A:957:ILE:CG2	3:A:958:MET:N	2.73	0.50
4:B:124:MET:HE1	6:E:519:TYR:CD1	2.46	0.50
4:B:553:VAL:C	4:B:561:ASN:HD21	2.20	0.50
4:B:596:TYR:CD1	4:B:629:LEU:CD2	2.91	0.50
4:B:725:ILE:HA	4:B:738:SER:CB	2.41	0.50
4:B:871:VAL:HG13	4:B:872:ALA:N	2.27	0.50
4:B:1218:ARG:HH11	6:E:122:PRO:HG2	1.76	0.50
5:C:37:GLY:O	5:C:40:LEU:HB2	2.12	0.50
5:C:40:LEU:O	5:C:43:VAL:HG12	2.12	0.50
5:C:42:ARG:NH2	5:D:34:THR:OG1	2.43	0.50
5:C:217:LEU:H	5:C:217:LEU:CD2	2.11	0.50
5:D:217:LEU:H	5:D:217:LEU:CD2	2.17	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:420:GLU:CG	6:E:448:LEU:CD2	2.90	0.50
6:E:481:LEU:HD23	6:E:482:GLU:H	1.77	0.50
8:G:111:LEU:HB3	8:G:115:ARG:NE	2.27	0.50
8:G:135:GLU:OE2	8:G:139:LEU:HB2	2.12	0.50
8:G:371:LYS:C	8:G:375:LYS:HG3	2.35	0.50
8:G:378:HIS:NE2	10:X:61:GLY:HA2	2.27	0.50
9:S:64:LEU:CB	9:S:68:ARG:CD	2.88	0.50
9:S:176:PRO:HB2	9:S:191:TYR:CE1	2.46	0.50
9:S:285:LEU:HD21	9:S:290:ILE:HG22	1.73	0.50
9:T:156:ASP:CA	9:T:291:LYS:CB	2.90	0.50
9:T:191:TYR:HB3	9:T:192:PRO:HD2	1.92	0.50
9:T:289:PRO:O	9:T:292:HIS:N	2.39	0.50
9:U:42:ASP:O	9:V:81:LEU:HG	2.12	0.50
9:U:127:GLY:CA	9:U:200:TYR:CG	2.95	0.50
9:U:132:LEU:HD11	9:U:150:PHE:HZ	1.77	0.50
9:U:294:TRP:O	9:U:296:LEU:O	2.30	0.50
9:V:146:MET:CE	9:V:272:LEU:HD23	2.41	0.50
9:V:167:ILE:HD12	9:V:272:LEU:HD22	1.93	0.50
10:Y:104:PRO:C	10:Y:106:GLU:N	2.58	0.50
10:Y:108:VAL:O	10:Y:111:ALA:HB3	2.11	0.50
10:Y:206:HIS:CD2	10:Y:209:LYS:HB2	2.47	0.50
3:A:37:SER:HG	3:A:38:PHE:H	1.57	0.49
3:A:58:ASP:OD2	3:A:60:THR:OG1	2.30	0.49
3:A:161:TYR:CD2	3:A:308:GLU:HG2	2.47	0.49
3:A:200:LYS:HD2	3:A:238:LEU:HD21	1.93	0.49
3:A:611:SER:HB2	3:A:613:GLN:H	1.76	0.49
3:A:620:LYS:HG3	3:A:623:ASP:CB	2.38	0.49
3:A:753:GLU:C	3:A:754:GLN:OE1	2.54	0.49
3:A:765:ALA:C	3:A:808:ASN:HA	2.37	0.49
3:A:1061:ILE:O	3:A:1061:ILE:HG23	2.12	0.49
3:A:1073:LEU:HB2	6:E:344:ARG:HH22	1.77	0.49
4:B:162:ASN:HD21	4:B:164:ARG:CG	2.15	0.49
4:B:518:ILE:C	4:B:865:ILE:HB	2.36	0.49
4:B:609:VAL:CA	4:B:625:GLN:O	2.48	0.49
4:B:910:ILE:HG12	4:B:912:ALA:O	2.12	0.49
4:B:981:GLN:HG2	4:B:994:LEU:O	2.12	0.49
4:B:1156:ASP:CG	4:B:1189:GLN:H	2.14	0.49
5:C:28:LEU:HD13	5:C:33:GLY:HA2	1.91	0.49
5:C:41:ARG:O	5:C:42:ARG:C	2.55	0.49
5:C:97:GLY:O	5:C:139:GLU:HA	2.12	0.49
5:D:5:GLN:CD	5:D:5:GLN:N	2.69	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:171:MET:HE3	6:E:543:MET:HE1	1.94	0.49
6:E:69:TRP:HA	6:E:93:VAL:HG11	1.94	0.49
6:E:107:LYS:HA	6:E:248:VAL:CG2	2.25	0.49
6:E:119:LYS:HB2	6:E:319:ARG:CD	2.39	0.49
6:E:276:TYR:C	6:E:279:VAL:HG12	2.37	0.49
6:E:462:PRO:HA	6:E:465:ASN:HA	1.93	0.49
6:E:542:ILE:O	6:E:545:PHE:N	2.36	0.49
7:F:60:ARG:C	7:F:62:ILE:N	2.56	0.49
8:G:275:PHE:HD2	8:G:276:ILE:HD12	1.77	0.49
9:S:169:LEU:HD22	9:S:188:LEU:CD2	2.41	0.49
9:S:195:VAL:CG2	9:S:217:LEU:HG	2.42	0.49
9:T:159:VAL:O	9:T:160:GLU:CD	2.54	0.49
9:U:20:LYS:O	9:U:21:ALA:HB3	2.11	0.49
9:U:47:LEU:HD22	9:U:57:THR:O	2.11	0.49
9:U:101:CYS:SG	9:U:109:LEU:HD21	2.52	0.49
9:U:144:ILE:O	9:U:202:MET:CE	2.59	0.49
9:V:12:ILE:HD11	9:V:17:SER:C	2.36	0.49
9:V:48:PHE:C	9:V:49:HIS:ND1	2.69	0.49
9:V:140:VAL:O	9:V:141:ASP:HB2	2.11	0.49
9:V:160:GLU:H	9:V:278:MET:HG2	0.58	0.49
9:V:209:LYS:NZ	9:V:262:ALA:HB3	2.25	0.49
10:Y:145:MET:SD	10:Y:183:ILE:HG21	2.52	0.49
1:1:37:DA:C2	2:2:90:DG:C2	3.00	0.49
2:2:99:DA:OP2	9:U:19:GLN:HB2	2.10	0.49
3:A:123:THR:N	3:A:127:THR:O	2.44	0.49
3:A:180:ASN:ND2	3:A:182:LEU:HD22	2.26	0.49
3:A:388:ASP:HA	3:A:646:ASN:HD21	1.75	0.49
3:A:542:ILE:CG2	3:A:545:LEU:CB	2.68	0.49
3:A:609:ARG:C	3:A:611:SER:N	2.71	0.49
3:A:709:VAL:HG13	3:A:845:LYS:CD	2.41	0.49
3:A:724:ILE:HG22	3:A:836:VAL:CG1	2.42	0.49
3:A:762:TRP:CH2	3:A:811:LYS:HG2	2.34	0.49
3:A:1000:LEU:HD21	6:E:258:PRO:HG3	1.94	0.49
4:B:3:PHE:O	6:E:565:GLU:N	2.43	0.49
4:B:43:TYR:O	4:B:45:THR:N	2.45	0.49
4:B:157:LEU:HG	4:B:174:ILE:CD1	2.36	0.49
4:B:384:ILE:HA	4:B:405:THR:O	2.11	0.49
4:B:395:GLU:O	4:B:396:THR:OG1	2.15	0.49
4:B:632:ILE:HD11	4:B:724:TYR:CG	2.47	0.49
4:B:645:LEU:H	4:B:662:LYS:NZ	2.10	0.49
4:B:726:GLN:HB3	4:B:729:GLU:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1053:GLU:OE2	4:B:1056:GLY:N	2.34	0.49
4:B:1207:PHE:O	4:B:1220:LEU:CG	2.59	0.49
4:B:1241:ILE:HG22	4:B:1243:ARG:N	2.27	0.49
5:C:5:GLN:CD	5:C:5:GLN:N	2.70	0.49
5:C:41:ARG:HH12	5:C:176:VAL:HG22	1.75	0.49
5:C:103:GLY:O	5:C:105:THR:OG1	2.18	0.49
5:C:218:VAL:HA	5:D:221:PHE:CZ	2.47	0.49
6:E:45:ILE:HB	6:E:51:LYS:C	2.37	0.49
6:E:142:PHE:HZ	6:E:300:ARG:C	2.20	0.49
6:E:412:ASP:CB	6:E:413:PRO:CD	2.90	0.49
7:F:13:GLN:HE21	7:F:16:HIS:H	1.58	0.49
8:G:197:LYS:O	8:G:209:TYR:HE2	1.95	0.49
8:G:233:VAL:HG12	8:G:236:TYR:CE2	2.46	0.49
8:G:237:GLU:HG2	8:G:241:ARG:HG3	1.93	0.49
8:G:241:ARG:HD2	8:G:244:LYS:HE2	1.93	0.49
8:G:291:GLY:C	8:G:293:GLU:H	2.19	0.49
9:T:232:VAL:HG11	9:T:240:ALA:HB3	1.93	0.49
9:U:154:GLY:HA3	9:U:159:VAL:HG23	1.93	0.49
9:U:221:LEU:HB3	9:U:229:PHE:HE2	1.77	0.49
9:U:297:VAL:CA	9:U:302:PRO:CD	2.84	0.49
10:Y:58:TYR:O	10:Y:61:GLY:HA2	2.12	0.49
1:1:94:DT:O5'	8:G:232:PRO:HB3	2.12	0.49
3:A:47:ILE:O	3:A:49:GLU:C	2.56	0.49
3:A:243:ARG:N	3:A:244:PRO:HD3	2.26	0.49
3:A:433:ILE:HG22	3:A:433:ILE:O	2.11	0.49
3:A:449:THR:HG23	3:A:535:VAL:CA	2.42	0.49
3:A:490:VAL:HG22	3:A:491:ALA:N	2.27	0.49
3:A:595:ASP:OD1	3:A:664:VAL:C	2.55	0.49
3:A:599:VAL:HG23	3:A:607:ARG:HH21	1.76	0.49
3:A:772:LYS:CG	3:A:774:THR:HG23	2.42	0.49
3:A:1070:PHE:O	3:A:1071:LYS:C	2.55	0.49
3:A:1084:ILE:C	3:A:1086:VAL:H	2.20	0.49
3:A:1098:LEU:CD2	3:A:1100:VAL:CG2	2.86	0.49
4:B:57:MET:HE3	4:B:58:VAL:O	2.12	0.49
4:B:79:ARG:CZ	4:B:372:HIS:HE1	2.26	0.49
4:B:93:LYS:NZ	4:B:422:GLN:HG3	2.27	0.49
4:B:164:ARG:N	4:B:165:GLU:OE1	2.45	0.49
4:B:195:TYR:HD1	4:B:198:ARG:CZ	2.25	0.49
4:B:369:ARG:HH12	4:B:1000:GLU:C	2.14	0.49
4:B:386:ILE:HG21	4:B:397:PRO:HG3	1.94	0.49
4:B:510:LEU:HB2	4:B:877:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:533:SER:H	4:B:842:ARG:HG2	1.78	0.49
4:B:557:GLN:HG2	4:B:557:GLN:O	2.11	0.49
4:B:591:LEU:HG	4:B:592:ILE:O	2.12	0.49
4:B:614:LYS:O	4:B:614:LYS:HD2	2.12	0.49
4:B:993:ASN:OD1	4:B:994:LEU:N	2.44	0.49
4:B:1030:ALA:HA	4:B:1083:LEU:HD13	1.93	0.49
4:B:1107:TYR:CZ	4:B:1174:GLU:HG3	2.45	0.49
4:B:1175:GLN:O	4:B:1178:GLU:N	2.46	0.49
5:C:9:VAL:CG2	5:C:23:PHE:HA	2.42	0.49
5:D:176:VAL:HG23	5:D:197:GLU:O	2.13	0.49
5:D:182:GLU:HA	5:D:192:ASP:HA	1.94	0.49
5:D:218:VAL:HA	5:D:221:PHE:HD2	1.77	0.49
6:E:71:CYS:HB2	6:E:76:TYR:CE2	2.47	0.49
6:E:118:LEU:C	6:E:120:GLY:H	2.19	0.49
6:E:288:ARG:O	6:E:291:GLU:OE2	2.29	0.49
6:E:404:ALA:O	6:E:406:LYS:N	2.45	0.49
7:F:22:ILE:HD12	7:F:23:SER:H	1.77	0.49
8:G:111:LEU:O	8:G:115:ARG:CG	2.56	0.49
8:G:249:LEU:HA	8:G:251:GLN:HE21	1.77	0.49
8:G:282:LEU:HG	8:G:283:PRO:N	2.27	0.49
9:S:188:LEU:HB3	9:S:193:GLN:CB	2.42	0.49
9:T:45:LEU:CG	9:T:59:GLY:HA2	2.28	0.49
9:T:85:ILE:O	9:T:86:ALA:C	2.55	0.49
9:T:287:ILE:HB	9:T:290:ILE:CG1	2.40	0.49
9:U:95:ALA:HB2	9:U:140:VAL:CG1	2.42	0.49
9:U:167:ILE:CG1	9:U:262:ALA:HA	2.38	0.49
9:U:174:ASN:O	9:U:175:HIS:C	2.55	0.49
9:V:119:VAL:HG13	9:V:121:LEU:HD23	1.93	0.49
10:X:56:ARG:NH2	10:X:62:GLU:HB2	2.27	0.49
10:X:58:TYR:O	10:X:61:GLY:HA2	2.12	0.49
2:2:92:DA:H62	9:T:34:ARG:NE	2.08	0.49
3:A:39:ARG:O	3:A:43:GLU:OE1	2.29	0.49
3:A:151:SER:H	3:A:314:ILE:CD1	2.25	0.49
3:A:181:ASP:CG	3:A:217:GLU:HA	2.37	0.49
3:A:673:SER:O	3:A:674:SER:OG	2.29	0.49
3:A:718:HIS:CE1	3:A:844:ARG:HE	2.30	0.49
3:A:724:ILE:HG22	3:A:836:VAL:HG11	1.93	0.49
3:A:745:GLU:O	3:A:747:ALA:C	2.55	0.49
3:A:786:LYS:O	3:A:789:ARG:HB3	2.13	0.49
3:A:829:PRO:O	3:A:832:ALA:HB3	2.12	0.49
3:A:878:SER:OG	3:A:879:PRO:N	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:958:MET:HA	3:A:971:PRO:HA	1.93	0.49
3:A:1086:VAL:CG1	6:E:12:VAL:HG12	2.43	0.49
4:B:148:ALA:C	4:B:154:ILE:HA	2.36	0.49
4:B:186:THR:O	4:B:187:ALA:C	2.54	0.49
4:B:248:VAL:O	4:B:256:VAL:HA	2.12	0.49
4:B:364:ARG:HH11	4:B:379:VAL:HG11	1.77	0.49
4:B:439:GLU:HG3	4:B:1001:ARG:HB3	1.93	0.49
4:B:465:ASP:OD1	4:B:471:THR:HG21	2.12	0.49
4:B:479:LEU:HD22	4:B:481:TRP:CZ2	2.47	0.49
4:B:613:LYS:O	4:B:615:GLY:N	2.45	0.49
4:B:707:LEU:HG	4:B:708:LEU:C	2.37	0.49
4:B:764:ARG:CA	4:B:807:HIS:CD2	2.78	0.49
4:B:860:LYS:C	4:B:862:GLY:H	2.16	0.49
4:B:1189:GLN:C	4:B:1190:TYR:CD1	2.90	0.49
5:C:9:VAL:O	5:C:10:GLU:C	2.55	0.49
5:C:96:ILE:HG21	5:C:139:GLU:HB2	1.94	0.49
5:C:120:VAL:O	5:C:121:ILE:C	2.54	0.49
5:C:120:VAL:HB	5:C:123:PRO:CA	2.42	0.49
5:D:180:VAL:HA	5:D:194:LEU:HA	1.93	0.49
6:E:42:PRO:O	6:E:43:GLU:OE1	2.31	0.49
6:E:377:ARG:HG3	6:E:450:GLU:CA	2.42	0.49
6:E:407:LEU:C	6:E:407:LEU:HD12	2.38	0.49
6:E:492:LEU:N	6:E:495:ASN:OD1	2.45	0.49
6:E:585:THR:CG2	6:E:592:ARG:HH21	2.24	0.49
7:F:41:ARG:O	7:F:44:TYR:N	2.46	0.49
7:F:63:ILE:O	7:F:64:GLU:C	2.50	0.49
8:G:195:ALA:O	8:G:198:PHE:HB3	2.11	0.49
8:G:336:VAL:CG2	8:G:358:PHE:CG	2.96	0.49
8:G:361:THR:OG1	8:G:363:GLU:CD	2.51	0.49
8:G:378:HIS:O	8:G:381:ARG:HD2	2.13	0.49
9:S:206:VAL:HA	9:S:209:LYS:HB2	1.93	0.49
9:S:225:THR:CG2	9:U:123:VAL:HG13	2.34	0.49
9:S:282:GLN:O	9:S:283:ASP:C	2.55	0.49
9:T:283:ASP:C	9:T:286:GLN:HE22	2.21	0.49
9:U:247:LEU:HD13	9:U:251:ARG:HB2	1.93	0.49
9:U:261:LEU:O	9:U:262:ALA:HB2	2.12	0.49
9:V:2:ARG:O	9:V:3:LEU:C	2.55	0.49
9:V:133:LYS:HG3	9:V:134:VAL:N	2.26	0.49
9:V:148:ASN:O	9:V:149:ARG:CG	2.59	0.49
9:V:183:VAL:HG13	9:V:259:ARG:HB3	1.93	0.49
10:Y:78:LEU:HD13	10:Y:90:TYR:HE2	1.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:37:SER:O	3:A:38:PHE:C	2.50	0.49
3:A:264:PRO:C	3:A:266:ARG:H	2.21	0.49
3:A:468:ASN:OD1	3:A:468:ASN:O	2.31	0.49
3:A:566:LEU:O	3:A:567:LEU:C	2.55	0.49
3:A:699:GLU:CB	3:A:700:ASP:CG	2.77	0.49
3:A:778:GLU:OE2	3:A:798:ASP:HB2	2.12	0.49
4:B:68:ALA:O	4:B:419:LYS:HB2	2.13	0.49
4:B:75:ALA:O	4:B:372:HIS:CE1	2.64	0.49
4:B:93:LYS:O	4:B:95:ILE:N	2.45	0.49
4:B:226:THR:O	4:B:227:GLU:C	2.55	0.49
4:B:231:THR:O	4:B:232:LEU:C	2.56	0.49
4:B:246:GLU:CD	4:B:281:VAL:HB	2.37	0.49
4:B:278:ALA:C	4:B:279:GLU:CD	2.80	0.49
4:B:964:VAL:HG12	4:B:965:THR:N	2.27	0.49
5:C:51:THR:HA	5:C:143:GLU:O	2.13	0.49
5:C:87:LEU:C	5:C:87:LEU:HD12	2.38	0.49
5:D:224:LEU:HG	5:D:226:ASP:H	1.77	0.49
6:E:194:LEU:HA	6:E:197:LEU:CG	2.41	0.49
6:E:415:VAL:O	6:E:416:TRP:C	2.52	0.49
6:E:443:ALA:O	6:E:444:PHE:CE1	2.61	0.49
6:E:511:GLN:O	6:E:514:VAL:HG22	2.13	0.49
6:E:551:ASP:C	6:E:553:HIS:H	2.19	0.49
8:G:270:ILE:HG23	8:G:271:GLU:N	2.27	0.49
8:G:341:TYR:CZ	8:G:365:ILE:HD11	2.46	0.49
8:G:355:GLY:HA2	8:G:361:THR:HG23	1.93	0.49
9:S:4:GLU:CD	9:S:27:VAL:HG22	2.38	0.49
9:S:69:LYS:HA	9:S:72:LEU:HG	1.95	0.49
9:U:40:GLU:HA	9:U:46:GLU:HG3	1.93	0.49
9:U:93:CYS:O	9:U:284:ARG:NH2	2.45	0.49
9:V:150:PHE:HZ	9:V:277:VAL:HG11	1.75	0.49
9:V:162:LEU:HD22	9:V:278:MET:HE1	1.90	0.49
10:X:52:VAL:HG11	10:X:98:VAL:HG22	1.93	0.49
10:X:204:SER:H	10:X:210:ILE:HA	1.78	0.49
10:Y:46:PHE:O	10:Y:48:LEU:N	2.44	0.49
3:A:86:ARG:HA	3:A:818:ARG:CZ	2.43	0.49
3:A:159:ARG:NH1	3:A:161:TYR:CE2	2.80	0.49
3:A:254:GLN:C	3:A:256:LEU:N	2.70	0.49
3:A:274:ARG:O	3:A:276:LYS:C	2.56	0.49
3:A:309:TYR:HE2	3:A:311:ILE:HD11	1.75	0.49
3:A:449:THR:CG2	3:A:535:VAL:CA	2.90	0.49
3:A:520:THR:OG1	3:A:522:GLU:CD	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:683:GLY:O	3:A:684:GLN:OE1	2.30	0.49
3:A:724:ILE:HG12	3:A:804:LEU:HD21	1.94	0.49
3:A:749:ARG:NH2	3:A:750:GLN:CD	2.71	0.49
3:A:1048:ARG:CG	3:A:1049:ASN:OD1	2.59	0.49
4:B:80:TYR:O	4:B:82:ARG:N	2.45	0.49
4:B:86:THR:HG23	4:B:89:GLU:CD	2.38	0.49
4:B:157:LEU:HG	4:B:174:ILE:HD12	1.90	0.49
4:B:162:ASN:CG	4:B:163:PHE:N	2.64	0.49
4:B:216:THR:HA	4:B:218:ARG:NH1	2.28	0.49
4:B:245:GLY:HA3	4:B:260:ARG:CZ	2.43	0.49
4:B:296:GLN:CG	4:B:308:MET:HE2	2.43	0.49
4:B:303:LEU:HB2	6:E:500:PRO:O	2.13	0.49
4:B:358:LYS:N	4:B:389:PRO:HB3	2.27	0.49
4:B:442:VAL:HA	4:B:997:LEU:O	2.13	0.49
4:B:443:LYS:HD2	4:B:999:PHE:HB3	1.93	0.49
4:B:444:ASP:CG	4:B:445:VAL:N	2.71	0.49
4:B:602:GLY:C	4:B:632:ILE:C	2.80	0.49
4:B:809:ALA:CB	4:B:834:ILE:HG21	2.26	0.49
4:B:1160:THR:HG22	4:B:1180:MET:CB	2.41	0.49
5:C:36:VAL:HG13	5:C:40:LEU:HD13	1.93	0.49
5:C:61:VAL:HG21	5:C:66:ALA:HB3	1.93	0.49
6:E:95:GLU:CD	6:E:95:GLU:H	2.04	0.49
6:E:132:PRO:O	6:E:133:LEU:C	2.55	0.49
6:E:377:ARG:HA	6:E:380:ALA:HB3	1.93	0.49
6:E:393:ILE:O	6:E:395:SER:N	2.46	0.49
8:G:116:VAL:O	8:G:118:GLU:N	2.46	0.49
8:G:139:LEU:C	8:G:144:PHE:HD2	2.20	0.49
9:S:138:GLY:HA3	9:S:284:ARG:NH2	2.27	0.49
9:S:155:ARG:NH2	9:S:158:VAL:HG21	2.11	0.49
9:T:129:ASP:HB2	9:T:200:TYR:CD1	2.48	0.49
9:U:9:PHE:CD1	9:U:36:ILE:HG12	2.47	0.49
9:V:253:ASP:O	9:V:256:LEU:HD22	2.12	0.49
10:X:56:ARG:HG2	10:X:66:VAL:CB	2.42	0.49
10:X:137:ILE:HA	10:X:140:LEU:CD2	2.42	0.49
10:Y:42:GLU:CG	10:Y:88:ARG:HH12	2.25	0.49
1:1:18:DA:C2	1:1:19:DA:C2	3.00	0.49
2:2:92:DA:H62	9:T:34:ARG:CD	2.19	0.49
3:A:189:LYS:HG3	3:A:192:LYS:HZ2	1.77	0.49
3:A:376:GLU:O	3:A:378:PHE:C	2.56	0.49
3:A:449:THR:HG23	3:A:535:VAL:C	2.38	0.49
3:A:738:ARG:HH12	3:A:753:GLU:HA	1.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:814:VAL:HG23	3:A:839:TYR:O	2.12	0.49
3:A:887:LEU:O	3:A:890:PRO:HD2	2.13	0.49
3:A:997:PRO:HG2	3:A:997:PRO:O	2.13	0.49
3:A:1019:GLU:O	3:A:1023:TRP:N	2.45	0.49
4:B:96:ASP:C	4:B:422:GLN:HA	2.38	0.49
4:B:137:VAL:O	4:B:138:ARG:C	2.53	0.49
4:B:149:ASP:CG	4:B:151:GLN:H	2.18	0.49
4:B:189:ARG:HH12	4:B:331:THR:C	2.20	0.49
4:B:296:GLN:C	4:B:296:GLN:NE2	2.70	0.49
4:B:359:LEU:HD21	4:B:384:ILE:HG22	1.94	0.49
4:B:439:GLU:HB3	4:B:1003:LYS:HG3	1.94	0.49
4:B:532:LYS:CG	4:B:844:ILE:HG21	2.41	0.49
4:B:919:GLY:H	4:B:941:VAL:HA	1.77	0.49
4:B:1109:CYS:HB2	4:B:1112:HIS:HB3	1.95	0.49
5:C:44:LEU:HD23	5:C:44:LEU:C	2.37	0.49
5:C:51:THR:H	5:C:144:ARG:HG3	1.78	0.49
5:C:69:PRO:C	5:C:71:VAL:N	2.70	0.49
5:C:95:GLN:C	5:C:96:ILE:HD12	2.37	0.49
5:C:182:GLU:CG	5:C:183:VAL:N	2.75	0.49
5:D:9:VAL:HG23	5:D:23:PHE:HA	1.94	0.49
5:D:69:PRO:C	5:D:71:VAL:N	2.70	0.49
5:D:86:ILE:HD12	5:D:86:ILE:HA	1.60	0.49
6:E:147:VAL:HA	6:E:186:VAL:HG13	1.93	0.49
6:E:290:GLN:H	6:E:290:GLN:HE21	1.61	0.49
6:E:383:LEU:CD2	6:E:383:LEU:N	2.70	0.49
6:E:485:ALA:HB2	6:E:488:ARG:NE	2.28	0.49
8:G:115:ARG:HH11	8:G:119:ARG:HH22	1.60	0.49
8:G:183:LEU:O	8:G:183:LEU:CD2	2.54	0.49
8:G:359:ASN:ND2	8:G:364:ARG:HE	2.10	0.49
9:S:55:LYS:HG3	9:S:56:LEU:N	2.28	0.49
9:S:64:LEU:HB3	9:S:68:ARG:HD3	1.93	0.49
9:T:122:ARG:CA	9:V:221:LEU:HB2	2.42	0.49
9:T:126:LEU:HD12	9:T:131:ALA:CB	2.43	0.49
9:T:134:VAL:CA	9:T:137:ASP:HB2	2.33	0.49
9:T:167:ILE:H	9:T:273:THR:CA	2.25	0.49
9:T:211:GLU:C	9:T:214:GLU:H	2.20	0.49
9:U:100:LEU:O	9:U:103:SER:N	2.43	0.49
9:U:104:TYR:C	9:U:106:PRO:HD2	2.37	0.49
9:U:211:GLU:HA	9:U:215:ALA:HB3	1.95	0.49
9:U:296:LEU:CD1	9:U:300:ASN:C	2.86	0.49
9:V:84:LEU:CD1	9:V:85:ILE:CG1	2.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:X:53:LYS:HB2	10:X:65:THR:OG1	2.13	0.49
10:X:99:GLU:O	10:X:100:LEU:HG	2.13	0.49
10:X:124:ARG:HA	10:X:127:SER:OG	2.12	0.49
10:Y:56:ARG:O	10:Y:63:GLU:HA	2.13	0.49
10:Y:164:CYS:SG	10:Y:209:LYS:CE	3.01	0.49
3:A:79:TYR:OH	3:A:87:ARG:HB2	2.13	0.49
3:A:159:ARG:CZ	3:A:161:TYR:OH	2.60	0.49
3:A:184:TRP:N	3:A:184:TRP:CD1	2.81	0.49
3:A:221:LYS:HZ3	3:A:225:LYS:HE3	1.78	0.49
3:A:335:GLN:HG3	3:A:377:PHE:CD2	2.47	0.49
3:A:374:ILE:O	3:A:375:LYS:C	2.55	0.49
3:A:714:TYR:C	3:A:981:LYS:HZ3	2.20	0.49
3:A:723:GLU:CD	3:A:723:GLU:C	2.79	0.49
3:A:830:PRO:C	3:A:832:ALA:H	2.18	0.49
3:A:1016:ARG:HG3	3:A:1017:PHE:H	1.78	0.49
3:A:1026:GLU:C	3:A:1028:PHE:N	2.70	0.49
4:B:6:ARG:HG2	6:E:567:ASP:HA	1.94	0.49
4:B:7:VAL:HG12	4:B:8:VAL:O	2.13	0.49
4:B:322:SER:OG	4:B:1140:HIS:CG	2.65	0.49
4:B:417:GLN:O	4:B:417:GLN:CG	2.60	0.49
4:B:437:ASN:OD1	4:B:1004:THR:HA	2.13	0.49
4:B:521:GLY:HA3	4:B:541:THR:HG21	1.95	0.49
4:B:631:TRP:CH2	4:B:782:VAL:HG11	2.47	0.49
4:B:1023:PRO:HB2	4:B:1024:LYS:NZ	2.28	0.49
4:B:1150:ASN:O	4:B:1170:LEU:N	2.32	0.49
4:B:1166:GLU:OE2	4:B:1168:VAL:HG13	2.12	0.49
5:D:68:VAL:O	5:D:71:VAL:HG22	2.12	0.49
6:E:86:CYS:HB3	6:E:89:CYS:O	2.13	0.49
6:E:106:ILE:HD11	6:E:279:VAL:CG1	2.31	0.49
6:E:393:ILE:O	6:E:394:ARG:C	2.55	0.49
8:G:219:THR:O	8:G:221:ALA:N	2.46	0.49
8:G:329:LEU:CD1	8:G:334:ARG:H	2.25	0.49
9:S:126:LEU:CD2	9:S:145:VAL:HG23	2.38	0.49
9:T:119:VAL:HG23	9:T:120:GLN:O	2.12	0.49
9:T:123:VAL:CG1	9:V:225:THR:CG2	2.90	0.49
9:T:145:VAL:CB	9:T:278:MET:HB3	2.41	0.49
9:T:154:GLY:N	9:T:157:MET:O	2.45	0.49
9:U:21:ALA:HA	9:U:24:LYS:HB3	1.94	0.49
9:U:155:ARG:N	9:U:285:LEU:HD21	2.27	0.49
9:U:300:ASN:O	9:U:301:ILE:C	2.53	0.49
9:V:182:ARG:HA	9:V:259:ARG:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:X:150:VAL:O	10:X:153:LEU:HG	2.12	0.49
1:1:58:DA:H2"	1:1:59:DT:C6	2.48	0.49
1:1:112:DG:N2	3:A:418:ALA:HB3	2.27	0.49
3:A:32:GLU:O	3:A:33:ILE:C	2.56	0.49
3:A:152:GLU:CA	3:A:153:ILE:HD12	2.42	0.49
3:A:159:ARG:NH2	3:A:161:TYR:OH	2.45	0.49
3:A:161:TYR:HD2	3:A:308:GLU:HG2	1.78	0.49
3:A:314:ILE:HG23	3:A:315:ASP:O	2.13	0.49
3:A:383:LEU:O	3:A:384:SER:C	2.47	0.49
3:A:551:ASN:HA	4:B:179:ALA:HB2	1.94	0.49
3:A:702:ILE:HG21	3:A:852:MET:CE	2.43	0.49
3:A:826:ASP:C	3:A:828:LEU:N	2.71	0.49
3:A:956:LYS:HE2	3:A:956:LYS:HB2	1.42	0.49
3:A:1016:ARG:NH1	6:E:353:ARG:NH2	2.58	0.49
4:B:59:PRO:HG3	4:B:109:VAL:CB	2.43	0.49
4:B:80:TYR:O	4:B:83:GLY:N	2.37	0.49
4:B:174:ILE:HA	4:B:177:TYR:CD2	2.48	0.49
4:B:359:LEU:HB2	4:B:393:GLY:H	1.77	0.49
4:B:369:ARG:HH22	4:B:438:THR:CG2	2.25	0.49
4:B:461:GLU:OE1	4:B:474:ALA:O	2.30	0.49
4:B:480:ILE:O	4:B:972:TYR:N	2.46	0.49
4:B:885:ARG:C	4:B:887:VAL:N	2.69	0.49
4:B:908:LEU:HD23	4:B:964:VAL:CG2	2.41	0.49
5:C:29:GLU:OE1	5:D:146:LYS:HE3	2.13	0.49
5:C:75:VAL:HG13	5:C:79:ILE:CG1	2.38	0.49
5:C:80:MET:C	5:C:82:MET:H	2.15	0.49
5:C:120:VAL:HB	5:C:123:PRO:HA	1.94	0.49
5:D:87:LEU:C	5:D:87:LEU:HD12	2.38	0.49
5:D:94:ALA:C	5:D:95:GLN:CD	2.81	0.49
5:D:95:GLN:C	5:D:96:ILE:HD12	2.37	0.49
6:E:133:LEU:O	6:E:137:GLU:N	2.46	0.49
6:E:151:GLY:CA	6:E:184:VAL:HB	2.43	0.49
6:E:290:GLN:N	6:E:290:GLN:CD	2.68	0.49
6:E:329:ARG:HG2	6:E:330:PRO:CD	2.41	0.49
6:E:358:GLY:C	6:E:475:VAL:H	2.20	0.49
6:E:390:ASN:O	6:E:394:ARG:HB3	2.11	0.49
6:E:444:PHE:CD1	6:E:493:ALA:N	2.81	0.49
6:E:542:ILE:HG22	6:E:546:GLN:HG2	1.95	0.49
7:F:28:ARG:C	7:F:30:ARG:N	2.62	0.49
9:S:151:LEU:HD23	9:S:157:MET:HE2	1.94	0.49
9:S:174:ASN:O	9:S:176:PRO:HD3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:106:PRO:N	9:T:107:PRO:HD2	2.28	0.49
9:T:128:SER:HB3	9:T:146:MET:N	2.28	0.49
9:T:129:ASP:HB2	9:T:200:TYR:CG	2.47	0.49
9:T:293:PHE:CD2	9:T:297:VAL:HG22	2.44	0.49
9:U:4:GLU:C	9:U:6:LEU:N	2.71	0.49
9:U:66:ARG:HG3	9:V:73:GLU:HG3	1.94	0.49
9:V:116:TYR:CD2	9:V:289:PRO:HD3	2.47	0.49
10:Y:53:LYS:HB2	10:Y:65:THR:OG1	2.13	0.49
10:Y:191:THR:O	10:Y:194:LEU:HB3	2.13	0.49
10:Y:207:LYS:O	10:Y:207:LYS:HG2	2.13	0.49
3:A:147:VAL:HG12	3:A:277:LEU:CD1	2.42	0.49
3:A:176:GLU:OE2	3:A:184:TRP:CB	2.60	0.49
3:A:365:VAL:HG12	3:A:367:PRO:HD3	1.94	0.49
3:A:719:ILE:CG2	3:A:841:ALA:HB2	2.25	0.49
3:A:759:ILE:HG22	3:A:760:GLY:H	1.76	0.49
3:A:820:PHE:CE1	3:A:835:VAL:HG21	2.47	0.49
3:A:903:LEU:O	3:A:906:ALA:HB3	2.13	0.49
3:A:1084:ILE:HD13	6:E:13:LYS:O	2.13	0.49
4:B:15:ASN:OD1	4:B:15:ASN:N	2.40	0.49
4:B:266:ASP:O	4:B:269:ALA:HB3	2.13	0.49
4:B:572:PHE:HB3	4:B:589:ALA:HB1	1.95	0.49
4:B:666:CYS:C	4:B:668:ASN:H	2.19	0.49
4:B:855:THR:O	4:B:855:THR:OG1	2.31	0.49
4:B:1118:GLN:HB3	4:B:1145:VAL:HG12	1.93	0.49
4:B:1157:GLY:O	4:B:1162:MET:HB2	2.13	0.49
4:B:1244:LEU:H	4:B:1244:LEU:CD2	2.26	0.49
5:C:40:LEU:HD23	5:C:210:LEU:CD2	2.43	0.49
6:E:141:TYR:CD1	6:E:304:ARG:HG3	2.48	0.49
6:E:148:LEU:O	6:E:158:TYR:CE1	2.66	0.49
6:E:280:ILE:HG23	6:E:281:ASN:N	2.28	0.49
9:S:188:LEU:CD1	9:S:210:PHE:CD1	2.96	0.49
9:S:264:SER:O	9:S:266:LEU:N	2.45	0.49
9:S:268:GLU:HA	9:S:272:LEU:CB	2.38	0.49
9:S:281:THR:CG2	9:T:51:THR:HG21	2.43	0.49
9:U:135:LEU:HA	9:U:140:VAL:O	2.13	0.49
9:U:169:LEU:HB2	9:U:261:LEU:HG	1.95	0.49
9:U:243:PRO:O	9:U:244:SER:C	2.56	0.49
9:V:95:ALA:HA	9:V:140:VAL:HG21	1.94	0.49
9:V:184:PRO:O	9:V:188:LEU:CD2	2.59	0.49
9:V:191:TYR:HD2	9:V:239:ILE:CG1	2.19	0.49
10:X:98:VAL:CG1	10:X:100:LEU:HD11	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:74:LEU:HB3	3:A:95:MET:CE	2.43	0.48
3:A:140:GLN:OE1	3:A:141:ILE:O	2.31	0.48
3:A:145:PRO:HG3	3:A:168:ASN:ND2	2.28	0.48
3:A:148:TYR:O	3:A:164:SER:CB	2.61	0.48
3:A:159:ARG:NH1	3:A:160:THR:N	2.61	0.48
3:A:159:ARG:CZ	3:A:161:TYR:CZ	2.96	0.48
3:A:236:MET:HE3	3:A:240:ARG:CG	2.38	0.48
3:A:343:LEU:C	3:A:343:LEU:HD23	2.37	0.48
3:A:370:LEU:O	3:A:371:VAL:C	2.56	0.48
3:A:449:THR:CG2	3:A:535:VAL:O	2.61	0.48
3:A:717:ILE:HG13	3:A:717:ILE:O	2.13	0.48
3:A:729:THR:C	3:A:731:LEU:H	2.18	0.48
3:A:745:GLU:HA	3:A:748:LEU:HB3	1.94	0.48
3:A:928:SER:OG	3:A:929:ARG:HG2	2.12	0.48
3:A:1013:GLY:O	3:A:1014:GLY:C	2.56	0.48
4:B:34:ASP:OD2	6:E:370:ILE:HD12	2.13	0.48
4:B:201:VAL:HA	4:B:204:SER:OG	2.12	0.48
4:B:249:ILE:C	4:B:250:HIS:O	2.54	0.48
4:B:384:ILE:O	4:B:385:MET:C	2.56	0.48
4:B:421:GLY:O	4:B:422:GLN:NE2	2.46	0.48
4:B:701:ILE:HA	4:B:704:ASP:HB3	1.95	0.48
4:B:871:VAL:HG22	4:B:872:ALA:HB2	1.95	0.48
4:B:1030:ALA:HB1	4:B:1078:PRO:CB	2.43	0.48
4:B:1093:ILE:HA	4:B:1096:VAL:HB	1.95	0.48
4:B:1152:VAL:HG12	4:B:1192:PRO:CA	2.42	0.48
4:B:1218:ARG:NH1	6:E:122:PRO:HG2	2.27	0.48
4:B:1224:ALA:O	6:E:15:GLY:HA2	2.12	0.48
4:B:1226:GLU:HG2	6:E:233:ASN:HB3	1.92	0.48
5:C:87:LEU:HA	5:C:119:GLU:O	2.13	0.48
5:C:195:LEU:N	5:C:195:LEU:HD12	2.28	0.48
5:C:213:ALA:HA	5:C:216:ILE:HB	1.95	0.48
5:D:9:VAL:O	5:D:10:GLU:C	2.55	0.48
5:D:107:ILE:HD11	5:D:135:LYS:HZ2	1.76	0.48
5:D:108:THR:OG1	5:D:110:SER:OG	2.18	0.48
6:E:81:HIS:CE1	6:E:83:GLY:H	2.31	0.48
6:E:226:LYS:O	6:E:228:LEU:N	2.45	0.48
6:E:481:LEU:C	6:E:483:SER:N	2.68	0.48
6:E:606:ILE:HD12	6:E:606:ILE:H	1.78	0.48
8:G:176:ARG:HG2	8:G:183:LEU:CD1	2.42	0.48
8:G:352:GLU:O	8:G:353:GLU:C	2.55	0.48
9:S:300:ASN:O	9:S:302:PRO:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:10:LEU:HD22	9:T:64:LEU:HD13	1.95	0.48
9:T:207:GLN:HG2	9:T:211:GLU:OE2	2.13	0.48
9:U:10:LEU:O	9:U:14:GLU:N	2.43	0.48
9:U:18:PHE:HB3	9:U:33:SER:HB3	1.95	0.48
9:U:94:ILE:HD13	9:U:293:PHE:HB2	1.95	0.48
9:U:117:PRO:O	9:U:118:GLU:CG	2.58	0.48
9:U:132:LEU:HD12	9:U:148:ASN:HD22	1.78	0.48
9:U:134:VAL:HG13	9:U:139:LEU:HB3	1.94	0.48
9:U:158:VAL:O	9:U:159:VAL:HG12	2.13	0.48
9:U:206:VAL:HG23	9:U:273:THR:O	2.13	0.48
9:V:48:PHE:O	9:V:49:HIS:CE1	2.66	0.48
9:V:265:ALA:H	9:V:269:ASN:C	2.19	0.48
10:X:96:THR:O	10:X:98:VAL:HG23	2.13	0.48
10:X:145:MET:HG2	10:X:148:ARG:HE	1.77	0.48
10:X:149:LEU:HD13	10:X:153:LEU:HD23	1.95	0.48
10:X:200:LYS:C	10:X:202:MET:H	2.20	0.48
3:A:32:GLU:O	3:A:33:ILE:O	2.31	0.48
3:A:194:SER:HB2	3:A:237:GLU:OE1	2.13	0.48
3:A:289:VAL:HG22	3:A:291:VAL:N	2.20	0.48
3:A:304:LEU:HD22	3:A:307:LEU:HD21	1.93	0.48
3:A:343:LEU:HD21	3:A:347:ILE:HG13	1.95	0.48
3:A:370:LEU:HD12	3:A:370:LEU:H	1.77	0.48
3:A:516:PHE:CE2	4:B:157:LEU:HB3	2.44	0.48
3:A:557:SER:O	3:A:561:ARG:HG3	2.13	0.48
3:A:728:GLN:NE2	3:A:831:GLY:C	2.70	0.48
3:A:767:ASP:CA	3:A:806:VAL:HG12	2.43	0.48
3:A:786:LYS:HG2	8:G:340:ARG:HH12	1.77	0.48
3:A:1001:VAL:CG1	3:A:1002:THR:H	2.16	0.48
3:A:1051:ALA:O	3:A:1053:ASN:N	2.46	0.48
3:A:1073:LEU:O	3:A:1076:GLU:HG2	2.14	0.48
4:B:52:SER:OG	4:B:55:ASP:HB2	2.12	0.48
4:B:90:ARG:O	4:B:93:LYS:CA	2.61	0.48
4:B:110:VAL:O	4:B:114:LYS:HG2	2.13	0.48
4:B:124:MET:HE3	6:E:518:TYR:CE2	2.49	0.48
4:B:416:GLN:HG3	4:B:417:GLN:N	2.28	0.48
4:B:1114:LEU:O	4:B:1117:VAL:HG13	2.13	0.48
4:B:1225:ILE:C	4:B:1226:GLU:CD	2.80	0.48
5:C:55:ALA:HB3	5:C:141:ARG:HG3	1.95	0.48
6:E:226:LYS:C	6:E:230:VAL:HG13	2.38	0.48
6:E:346:ARG:HG3	6:E:350:LEU:HD22	1.92	0.48
8:G:116:VAL:HG23	8:G:117:ARG:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:231:LEU:HB2	8:G:236:TYR:CD2	2.48	0.48
9:S:117:PRO:O	9:S:118:GLU:C	2.55	0.48
9:S:147:ASN:C	9:S:149:ARG:H	2.21	0.48
9:S:188:LEU:HD11	9:S:210:PHE:CZ	2.46	0.48
9:T:98:HIS:NE2	9:T:126:LEU:C	2.71	0.48
9:T:247:LEU:HB2	9:T:251:ARG:CD	2.31	0.48
9:U:117:PRO:C	9:U:118:GLU:HG3	2.36	0.48
9:U:203:GLN:OE1	9:U:241:LEU:HD21	2.13	0.48
10:X:118:LEU:HD23	10:X:121:LEU:CD1	2.44	0.48
10:Y:44:VAL:CG1	10:Y:46:PHE:HB2	2.43	0.48
10:Y:56:ARG:HG2	10:Y:66:VAL:CB	2.42	0.48
10:Y:154:LEU:HD13	10:Y:215:PRO:HB2	1.95	0.48
1:1:14:DC:H42	2:2:112:DG:H1	1.62	0.48
3:A:147:VAL:CG2	3:A:165:LEU:HD12	2.43	0.48
3:A:148:TYR:CA	3:A:149:TYR:HD1	2.23	0.48
3:A:281:LEU:HD11	3:A:303:TYR:CE2	2.49	0.48
3:A:469:GLY:HA2	3:A:521:PRO:HB3	1.94	0.48
3:A:485:GLU:CG	3:A:486:ASP:N	2.58	0.48
3:A:584:ARG:HA	3:A:589:VAL:HG23	1.95	0.48
3:A:791:ILE:O	3:A:792:PHE:C	2.56	0.48
3:A:824:GLN:C	3:A:825:GLY:O	2.55	0.48
3:A:846:ILE:CG2	3:A:981:LYS:CD	2.91	0.48
3:A:920:ASP:OD1	3:A:920:ASP:O	2.31	0.48
3:A:1036:GLU:OE2	3:A:1040:VAL:N	2.46	0.48
4:B:16:LEU:C	4:B:18:SER:N	2.66	0.48
4:B:32:MET:SD	6:E:623:LEU:HD23	2.53	0.48
4:B:87:GLU:O	4:B:91:PHE:HB2	2.13	0.48
4:B:218:ARG:HD3	4:B:218:ARG:N	2.28	0.48
4:B:225:MET:C	4:B:226:THR:OG1	2.55	0.48
4:B:802:GLU:CG	4:B:803:GLY:H	2.19	0.48
4:B:860:LYS:C	4:B:862:GLY:N	2.72	0.48
4:B:910:ILE:O	4:B:962:TYR:CD2	2.66	0.48
4:B:1013:ARG:O	4:B:1013:ARG:HG3	2.13	0.48
4:B:1015:GLU:HA	4:B:1018:LEU:HD12	1.95	0.48
5:C:7:GLU:O	5:C:8:CYS:C	2.52	0.48
5:C:9:VAL:HG23	5:C:23:PHE:HA	1.94	0.48
5:C:26:GLU:CB	5:C:27:PRO:HD3	2.43	0.48
5:C:95:GLN:HB3	5:C:115:PRO:CG	2.42	0.48
5:D:39:ALA:C	5:D:41:ARG:N	2.69	0.48
6:E:118:LEU:C	6:E:120:GLY:N	2.69	0.48
6:E:158:TYR:O	6:E:160:GLN:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:237:THR:CG2	6:E:238:GLY:N	2.73	0.48
6:E:272:LEU:HA	6:E:275:LEU:HD23	1.95	0.48
6:E:294:ALA:CB	6:E:295:PRO:HD2	2.37	0.48
7:F:28:ARG:HG3	7:F:29:TYR:H	1.77	0.48
8:G:111:LEU:O	8:G:114:GLU:OE2	2.30	0.48
8:G:257:PRO:O	8:G:258:THR:C	2.56	0.48
8:G:333:GLU:CB	8:G:337:LEU:HD21	2.44	0.48
8:G:354:ILE:O	8:G:355:GLY:C	2.55	0.48
9:S:285:LEU:CD1	9:S:291:LYS:HD2	2.43	0.48
9:U:66:ARG:O	9:U:67:ALA:C	2.56	0.48
9:U:138:GLY:HA2	9:U:140:VAL:C	2.37	0.48
9:V:1:MET:O	9:V:2:ARG:C	2.56	0.48
9:V:163:TYR:CB	9:V:274:ARG:HG2	2.35	0.48
10:X:44:VAL:HG11	10:X:108:VAL:HG11	1.95	0.48
10:X:78:LEU:HD22	10:X:88:ARG:HA	1.94	0.48
10:X:121:LEU:HA	10:X:124:ARG:HB2	1.94	0.48
10:Y:153:LEU:HB3	10:Y:157:CYS:SG	2.53	0.48
1:1:26:DA:C8	1:1:27:DT:H72	2.48	0.48
1:1:112:DG:C5'	3:A:150:LYS:NZ	2.72	0.48
3:A:40:TRP:CZ2	3:A:44:GLU:CD	2.91	0.48
3:A:242:LEU:O	3:A:243:ARG:C	2.53	0.48
3:A:302:ASP:CG	3:A:303:TYR:H	2.18	0.48
3:A:393:LEU:HD23	3:A:394:ALA:N	2.28	0.48
3:A:424:PRO:HB3	3:A:511:ARG:NH2	2.27	0.48
3:A:509:PRO:C	3:A:510:VAL:HG13	2.38	0.48
4:B:283:ARG:O	4:B:283:ARG:HG3	2.13	0.48
4:B:642:ASP:OD1	8:G:101:ILE:CD1	2.56	0.48
4:B:687:LYS:HG3	4:B:688:PRO:CD	2.44	0.48
4:B:904:ASP:O	4:B:968:ALA:N	2.46	0.48
5:C:68:VAL:O	5:C:71:VAL:HG22	2.12	0.48
5:D:40:LEU:O	5:D:41:ARG:C	2.55	0.48
6:E:45:ILE:HA	6:E:52:PRO:HA	1.93	0.48
6:E:507:ILE:C	6:E:508:THR:HG23	2.38	0.48
9:S:293:PHE:O	9:S:296:LEU:N	2.47	0.48
9:S:301:ILE:HG22	9:S:301:ILE:O	2.12	0.48
9:U:40:GLU:HG2	9:U:48:PHE:HE1	1.73	0.48
9:U:94:ILE:HD13	9:U:290:ILE:HA	1.95	0.48
9:U:160:GLU:CB	9:U:298:ARG:CG	2.91	0.48
9:U:195:VAL:HG23	9:U:195:VAL:O	2.14	0.48
9:U:301:ILE:HB	9:U:302:PRO:HD3	1.94	0.48
9:V:167:ILE:HD13	9:V:243:PRO:CG	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:209:LYS:O	9:V:213:LEU:HB3	2.13	0.48
10:X:90:TYR:O	10:X:91:HIS:HB2	2.14	0.48
10:Y:52:VAL:HG11	10:Y:98:VAL:CG2	2.43	0.48
10:Y:56:ARG:NH2	10:Y:62:GLU:HB2	2.27	0.48
1:1:112:DG:C5'	3:A:150:LYS:HZ2	2.15	0.48
3:A:94:GLN:HA	3:A:118:ASP:CB	2.41	0.48
3:A:102:LEU:HD11	3:A:110:LYS:HG2	1.95	0.48
3:A:167:PRO:HG3	3:A:267:TYR:CE2	2.48	0.48
3:A:373:ALA:O	3:A:376:GLU:N	2.42	0.48
3:A:493:GLY:CA	3:A:528:ALA:HB2	2.43	0.48
3:A:548:ASP:OD1	3:A:894:ASN:C	2.55	0.48
3:A:597:ASP:O	3:A:615:PRO:CD	2.58	0.48
3:A:789:ARG:CZ	3:A:796:ALA:O	2.61	0.48
3:A:860:GLY:C	3:A:861:ILE:HG23	2.38	0.48
3:A:863:SER:HB3	6:E:364:VAL:HG13	1.95	0.48
3:A:1043:ASP:C	3:A:1048:ARG:HH21	2.21	0.48
3:A:1087:HIS:CD2	3:A:1094:ASP:HB2	2.44	0.48
4:B:165:GLU:CD	4:B:166:GLY:N	2.71	0.48
4:B:408:SER:CB	4:B:410:ILE:HG12	2.43	0.48
4:B:496:LEU:HD23	4:B:890:GLY:CA	2.44	0.48
4:B:724:TYR:O	4:B:739:ARG:N	2.47	0.48
4:B:883:ILE:N	4:B:900:LEU:H	2.12	0.48
4:B:1001:ARG:CG	4:B:1002:ALA:H	2.25	0.48
4:B:1070:ALA:C	4:B:1072:PRO:HD3	2.39	0.48
4:B:1190:TYR:CD2	4:B:1192:PRO:HD3	2.49	0.48
5:C:9:VAL:HG11	5:C:24:ILE:HD12	1.93	0.48
5:C:50:GLY:N	5:C:145:GLY:O	2.39	0.48
5:C:57:ARG:HB2	5:C:139:GLU:H	1.79	0.48
5:C:94:ALA:C	5:C:95:GLN:CD	2.81	0.48
5:C:115:PRO:O	5:C:116:SER:C	2.57	0.48
5:C:126:TYR:CG	5:C:127:VAL:N	2.79	0.48
5:C:180:VAL:HG22	5:C:181:GLU:N	2.29	0.48
5:D:87:LEU:HA	5:D:119:GLU:O	2.13	0.48
5:D:156:GLU:HG3	5:D:165:GLN:HE22	1.77	0.48
6:E:78:ARG:HG2	6:E:79:VAL:H	1.78	0.48
6:E:161:LEU:O	6:E:162:LEU:CD2	2.61	0.48
6:E:297:ILE:HA	6:E:301:ASN:ND2	2.27	0.48
6:E:346:ARG:O	6:E:350:LEU:N	2.47	0.48
6:E:412:ASP:OD1	6:E:413:PRO:C	2.56	0.48
6:E:567:ASP:CG	6:E:568:GLN:HE22	2.22	0.48
7:F:44:TYR:HA	7:F:47:PHE:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:365:ILE:HG23	8:G:366:ARG:HG2	1.95	0.48
9:S:12:ILE:O	9:S:14:GLU:N	2.46	0.48
9:S:100:LEU:HD13	9:S:276:VAL:CG1	2.43	0.48
9:S:290:ILE:CG2	9:S:294:TRP:CB	2.90	0.48
9:T:95:ALA:O	9:T:143:ALA:HA	2.13	0.48
9:T:153:THR:C	9:T:158:VAL:HB	2.39	0.48
9:T:194:VAL:CG1	9:T:222:GLU:CG	2.90	0.48
9:T:197:LYS:CG	9:T:200:TYR:CE2	2.96	0.48
9:T:292:HIS:HA	9:T:295:GLN:CD	2.39	0.48
9:U:239:ILE:HG22	9:U:240:ALA:H	1.78	0.48
9:U:250:ALA:HA	9:U:256:LEU:O	2.14	0.48
9:U:290:ILE:HD12	9:U:290:ILE:H	1.78	0.48
9:V:12:ILE:O	9:V:16:GLY:N	2.47	0.48
9:V:93:CYS:C	9:V:94:ILE:HG12	2.39	0.48
9:V:167:ILE:HG23	9:V:243:PRO:CA	2.43	0.48
9:V:174:ASN:O	9:V:234:ARG:HB2	2.13	0.48
9:V:181:GLU:H	9:V:187:GLU:HB2	1.77	0.48
9:V:194:VAL:HB	9:V:238:LEU:CB	2.44	0.48
10:X:198:ARG:HA	10:X:203:ILE:CG1	2.41	0.48
10:Y:26:GLU:C	10:Y:100:LEU:HB2	2.38	0.48
10:Y:56:ARG:HD2	10:Y:57:VAL:HA	1.95	0.48
3:A:104:LYS:O	4:B:557:GLN:O	2.31	0.48
3:A:140:GLN:OE1	3:A:141:ILE:C	2.57	0.48
3:A:152:GLU:OE1	3:A:162:SER:HB2	2.14	0.48
3:A:175:PHE:HE1	3:A:185:VAL:HA	1.79	0.48
3:A:448:ALA:HB3	3:A:451:ALA:CB	2.37	0.48
3:A:525:ASP:OD1	3:A:526:TYR:CZ	2.66	0.48
3:A:734:GLU:HG2	3:A:774:THR:CA	2.44	0.48
3:A:772:LYS:HG3	3:A:774:THR:HG23	1.95	0.48
3:A:873:TYR:HB3	3:A:879:PRO:CA	2.43	0.48
3:A:928:SER:O	3:A:932:VAL:HG13	2.13	0.48
3:A:1045:MET:HA	3:A:1048:ARG:NE	2.29	0.48
4:B:15:ASN:O	4:B:18:SER:CB	2.59	0.48
4:B:126:ALA:O	4:B:127:PHE:C	2.56	0.48
4:B:214:CYS:HB2	4:B:295:CYS:SG	2.53	0.48
4:B:245:GLY:HA2	4:B:261:ASN:H	1.79	0.48
4:B:390:ARG:O	4:B:391:LYS:CB	2.59	0.48
4:B:587:VAL:HG12	4:B:794:GLN:CD	2.39	0.48
4:B:690:GLU:OE1	4:B:690:GLU:N	2.47	0.48
4:B:885:ARG:HD3	4:B:967:ARG:NH2	2.28	0.48
4:B:1076:VAL:CG1	4:B:1083:LEU:HG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1202:LEU:CB	4:B:1215:GLU:OE2	2.59	0.48
5:C:108:THR:OG1	5:C:110:SER:OG	2.18	0.48
5:C:182:GLU:CD	5:C:183:VAL:N	2.66	0.48
5:C:220:LEU:C	5:C:220:LEU:HD12	2.39	0.48
5:D:19:HIS:C	5:D:21:SER:HG	2.10	0.48
5:D:26:GLU:HB3	5:D:27:PRO:HD3	1.94	0.48
5:D:139:GLU:CD	5:D:139:GLU:N	2.71	0.48
6:E:232:ASP:O	6:E:235:ILE:HG13	2.14	0.48
6:E:431:ASN:O	6:E:473:MET:HB2	2.13	0.48
6:E:555:TYR:HE1	6:E:612:ARG:HH21	1.57	0.48
6:E:560:PHE:HB3	6:E:606:ILE:HD13	1.96	0.48
6:E:570:ASP:HB3	6:E:591:ARG:NE	2.28	0.48
8:G:107:ILE:HG21	8:G:200:HIS:CE1	2.48	0.48
8:G:112:GLU:N	8:G:112:GLU:CD	2.67	0.48
8:G:259:GLU:OE1	8:G:260:GLU:HB3	2.14	0.48
8:G:269:THR:O	8:G:270:ILE:C	2.56	0.48
8:G:329:LEU:CG	8:G:334:ARG:HB2	2.27	0.48
9:S:64:LEU:HB2	9:S:68:ARG:CB	2.40	0.48
9:S:186:SER:O	9:S:188:LEU:N	2.46	0.48
9:S:247:LEU:HD12	9:S:250:ALA:CB	2.43	0.48
9:T:95:ALA:HB3	9:T:143:ALA:CB	2.44	0.48
9:T:98:HIS:HE1	9:T:196:PHE:HE1	0.58	0.48
9:T:155:ARG:HB3	9:T:291:LYS:HD2	1.96	0.48
9:T:199:GLY:H	9:T:203:GLN:HG2	1.78	0.48
9:T:211:GLU:HA	9:T:214:GLU:H	1.77	0.48
9:U:45:LEU:CB	9:U:59:GLY:HA2	2.22	0.48
9:U:105:LEU:N	9:U:105:LEU:HD23	2.28	0.48
9:U:185:TRP:HZ3	9:U:261:LEU:HB3	1.76	0.48
9:U:293:PHE:O	9:U:296:LEU:O	2.30	0.48
9:V:1:MET:CE	9:V:66:ARG:NH2	2.77	0.48
9:V:9:PHE:CE2	9:V:59:GLY:C	2.92	0.48
9:V:225:THR:C	9:V:227:ASP:H	2.21	0.48
10:Y:157:CYS:HB2	10:Y:170:ILE:CA	2.43	0.48
2:2:101:DA:C8	2:2:102:DT:H72	2.49	0.48
3:A:159:ARG:HH11	3:A:160:THR:H	1.60	0.48
3:A:229:PHE:O	3:A:230:SER:C	2.56	0.48
3:A:238:LEU:O	3:A:242:LEU:HB3	2.13	0.48
3:A:459:LEU:HD12	3:A:461:THR:HG23	1.95	0.48
3:A:463:PHE:HE2	3:A:481:THR:H	1.62	0.48
3:A:463:PHE:O	3:A:478:ALA:HA	2.14	0.48
3:A:607:ARG:HG2	3:A:611:SER:HG	1.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:675:THR:OG1	3:A:679:GLU:N	2.47	0.48
3:A:706:GLU:OE2	3:A:867:PRO:HA	2.12	0.48
3:A:738:ARG:CD	3:A:755:GLY:N	2.76	0.48
3:A:851:LYS:NZ	6:E:470:GLY:HA3	2.28	0.48
3:A:1050:GLU:CD	3:A:1062:PRO:HG2	2.38	0.48
3:A:1086:VAL:H	3:A:1086:VAL:HG22	1.40	0.48
4:B:519:HIS:O	4:B:806:GLU:HA	2.14	0.48
4:B:611:VAL:HG13	4:B:622:GLU:HG3	1.95	0.48
4:B:638:GLU:HG3	4:B:683:GLU:OE1	2.13	0.48
4:B:808:ASN:OD1	4:B:809:ALA:N	2.47	0.48
4:B:1236:LYS:O	4:B:1240:ILE:HG12	2.14	0.48
5:C:16:SER:O	5:C:17:ARG:C	2.55	0.48
5:C:26:GLU:HA	5:C:193:ARG:HG3	1.95	0.48
5:C:173:VAL:HG13	5:C:173:VAL:O	2.14	0.48
5:D:120:VAL:HB	5:D:123:PRO:HA	1.94	0.48
6:E:108:LEU:HD22	6:E:112:VAL:HG11	1.96	0.48
6:E:128:LEU:HD12	6:E:129:LEU:HG	1.96	0.48
6:E:213:ILE:HG22	6:E:217:LYS:CE	2.43	0.48
6:E:224:LEU:HD22	6:E:224:LEU:H	1.78	0.48
6:E:391:ARG:HH12	7:F:54:MET:HE1	1.79	0.48
6:E:509:PRO:HB3	6:E:513:MET:SD	2.54	0.48
6:E:541:VAL:HG23	6:E:542:ILE:N	2.27	0.48
7:F:41:ARG:O	7:F:44:TYR:HB3	2.14	0.48
7:F:60:ARG:CZ	7:F:60:ARG:HB3	2.43	0.48
8:G:206:PHE:C	8:G:209:TYR:H	2.21	0.48
8:G:299:GLY:N	8:G:301:PHE:CD2	2.80	0.48
8:G:322:LEU:HD23	8:G:343:LEU:HD21	1.95	0.48
9:S:169:LEU:HD12	9:S:210:PHE:HZ	1.78	0.48
9:T:108:VAL:HG13	9:T:109:LEU:N	2.29	0.48
9:T:189:VAL:HG21	9:T:193:GLN:NE2	2.28	0.48
9:T:206:VAL:O	9:T:207:GLN:C	2.57	0.48
9:U:228:ALA:O	9:U:232:VAL:N	2.31	0.48
9:U:242:LEU:HD12	9:U:242:LEU:C	2.32	0.48
9:V:91:GLU:H	9:V:289:PRO:HG2	1.79	0.48
9:V:229:PHE:HD2	9:V:238:LEU:HD11	1.78	0.48
10:X:126:LEU:HB2	10:Y:126:LEU:HD21	1.90	0.48
10:X:158:ARG:HB2	10:X:168:ILE:HG23	1.95	0.48
2:2:104:DC:C1'	2:2:105:DG:H5'	2.42	0.48
3:A:141:ILE:HD12	3:A:403:SER:O	2.14	0.48
3:A:245:GLY:CA	8:G:87:GLN:HE22	2.16	0.48
3:A:260:ARG:HB3	3:A:261:PHE:CE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:287:ASP:O	3:A:288:THR:C	2.57	0.48
3:A:369:PRO:O	3:A:370:LEU:C	2.54	0.48
3:A:493:GLY:HA2	3:A:528:ALA:HB2	1.94	0.48
3:A:543:PRO:O	3:A:918:PRO:HB3	2.13	0.48
3:A:566:LEU:HD21	3:A:714:TYR:N	2.28	0.48
3:A:579:GLU:CG	3:A:580:ALA:N	2.75	0.48
3:A:618:SER:HB2	3:A:662:ARG:HH22	1.79	0.48
3:A:631:LYS:O	3:A:633:GLN:OE1	2.32	0.48
3:A:736:ILE:CG2	3:A:834:MET:HE2	2.44	0.48
3:A:897:GLN:CA	3:A:900:GLU:OE2	2.57	0.48
3:A:1028:PHE:CG	6:E:438:ARG:HD2	2.47	0.48
4:B:120:ASN:HB3	4:B:123:TYR:HB3	1.96	0.48
4:B:136:GLN:CD	4:B:136:GLN:N	2.56	0.48
4:B:396:THR:HG22	4:B:402:ILE:O	2.14	0.48
4:B:466:ARG:H	4:B:471:THR:HG21	1.78	0.48
4:B:511:ALA:O	4:B:876:ILE:N	2.46	0.48
4:B:512:GLU:HB2	4:B:875:GLN:HB2	1.96	0.48
4:B:619:LEU:HD23	4:B:619:LEU:H	1.79	0.48
4:B:629:LEU:O	4:B:743:GLU:HA	2.14	0.48
4:B:661:VAL:O	4:B:661:VAL:HG23	2.13	0.48
4:B:710:PRO:HD2	4:B:722:LEU:CD2	2.43	0.48
4:B:775:PRO:HB3	4:B:790:LEU:HA	1.96	0.48
4:B:870:VAL:CB	4:B:873:ARG:HH12	2.07	0.48
4:B:1014:ILE:O	4:B:1017:LEU:CG	2.37	0.48
4:B:1024:LYS:HE2	4:B:1024:LYS:HB2	1.63	0.48
4:B:1037:LYS:O	4:B:1038:VAL:C	2.56	0.48
4:B:1175:GLN:HA	4:B:1178:GLU:HB2	1.96	0.48
4:B:1225:ILE:CD1	6:E:124:TYR:CD1	2.97	0.48
6:E:140:VAL:HG12	6:E:141:TYR:N	2.28	0.48
6:E:288:ARG:O	6:E:288:ARG:HG3	2.13	0.48
6:E:295:PRO:O	6:E:299:VAL:HG23	2.14	0.48
6:E:357:SER:OG	6:E:476:HIS:HA	2.14	0.48
6:E:375:LEU:HD11	6:E:379:MET:HG3	1.96	0.48
6:E:561:ASP:HA	6:E:604:GLN:CD	2.38	0.48
6:E:576:VAL:HG22	6:E:586:VAL:HG22	1.96	0.48
7:F:15:MET:C	7:F:16:HIS:ND1	2.71	0.48
7:F:60:ARG:HA	7:F:63:ILE:HG12	1.95	0.48
7:F:66:SER:O	7:F:69:LEU:HG	2.14	0.48
8:G:291:GLY:C	8:G:293:GLU:N	2.70	0.48
9:S:222:GLU:HG2	9:S:222:GLU:O	2.14	0.48
9:S:294:TRP:CZ3	9:S:298:ARG:CZ	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:297:VAL:O	9:T:302:PRO:HD3	2.14	0.48
9:U:66:ARG:HG2	9:U:70:ILE:CG2	2.44	0.48
9:U:104:TYR:O	9:U:107:PRO:HD2	2.14	0.48
9:U:142:LEU:HD11	9:U:294:TRP:CA	2.44	0.48
9:U:206:VAL:CG1	9:U:274:ARG:HD2	2.38	0.48
9:V:9:PHE:O	9:V:13:ALA:N	2.41	0.48
9:V:98:HIS:HD1	9:V:125:SER:HB3	1.77	0.48
9:V:213:LEU:CD2	9:V:261:LEU:CD2	2.78	0.48
10:X:203:ILE:HG22	10:X:210:ILE:HG23	1.96	0.48
10:Y:169:THR:OG1	10:Y:209:LYS:HD2	2.13	0.48
1:1:20:DA:C2	2:2:105:DG:N1	2.82	0.48
3:A:147:VAL:HG23	3:A:165:LEU:HB2	1.96	0.48
3:A:152:GLU:C	3:A:153:ILE:HD12	2.39	0.48
3:A:161:TYR:HB2	3:A:177:THR:HG21	1.96	0.48
3:A:165:LEU:O	3:A:173:LEU:N	2.43	0.48
3:A:184:TRP:CE3	3:A:195:ALA:HB2	2.49	0.48
3:A:346:ILE:HG22	3:A:350:ARG:HG3	1.94	0.48
3:A:466:VAL:N	3:A:525:ASP:O	2.47	0.48
3:A:470:ARG:HH12	3:A:500:ASN:CG	2.21	0.48
3:A:499:GLU:O	3:A:500:ASN:OD1	2.31	0.48
3:A:513:ARG:O	3:A:514:GLN:HB2	2.14	0.48
3:A:724:ILE:HD12	3:A:724:ILE:HA	1.43	0.48
3:A:738:ARG:O	3:A:738:ARG:HG3	2.13	0.48
3:A:817:VAL:CG2	3:A:838:VAL:HB	2.44	0.48
3:A:957:ILE:HG23	3:A:957:ILE:HD12	1.34	0.48
4:B:106:LYS:O	4:B:107:ASP:C	2.57	0.48
4:B:148:ALA:HB1	4:B:153:GLU:O	2.12	0.48
4:B:359:LEU:HA	4:B:386:ILE:CB	2.43	0.48
4:B:394:SER:HB3	4:B:395:GLU:HG3	1.95	0.48
4:B:514:LYS:H	4:B:514:LYS:HG2	1.38	0.48
4:B:618:LYS:O	4:B:621:TYR:N	2.47	0.48
4:B:884:VAL:CG1	4:B:887:VAL:HG21	2.43	0.48
4:B:1133:GLY:O	4:B:1134:ILE:HG13	2.13	0.48
4:B:1171:ARG:C	4:B:1174:GLU:OE1	2.56	0.48
5:C:47:ASN:OD1	5:C:47:ASN:N	2.45	0.48
5:C:57:ARG:HB3	5:C:139:GLU:HG2	1.80	0.48
5:C:57:ARG:HA	5:C:162:ASP:O	2.14	0.48
5:C:81:ARG:HH11	5:C:126:TYR:HE2	1.59	0.48
5:C:121:ILE:HG21	5:C:203:SER:HA	1.96	0.48
6:E:27:GLU:CA	6:E:37:GLY:HA3	2.42	0.48
6:E:302:GLU:O	6:E:306:LEU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:488:ARG:CD	7:F:58:VAL:HG21	2.26	0.48
6:E:542:ILE:CD1	6:E:614:ILE:HG12	2.42	0.48
6:E:579:ASN:ND2	6:E:583:SER:OG	2.46	0.48
8:G:103:LEU:O	8:G:106:LYS:N	2.47	0.48
8:G:232:PRO:HG2	8:G:235:LEU:CB	2.43	0.48
8:G:255:ARG:O	8:G:257:PRO:N	2.47	0.48
8:G:311:ASP:OD2	8:G:315:LYS:CD	2.62	0.48
8:G:363:GLU:HG2	8:G:364:ARG:CA	2.43	0.48
9:T:85:ILE:O	9:T:85:ILE:HG22	2.13	0.48
9:T:91:GLU:C	9:T:92:LEU:HG	2.38	0.48
9:T:130:ARG:O	9:T:133:LYS:HB2	2.14	0.48
9:T:162:LEU:HB2	9:T:276:VAL:HG21	1.95	0.48
9:T:196:PHE:HB3	9:T:203:GLN:HB2	1.95	0.48
9:U:185:TRP:HB2	9:U:215:ALA:HB2	1.94	0.48
9:U:249:GLU:C	9:U:252:LEU:H	2.21	0.48
9:V:191:TYR:CD2	9:V:239:ILE:CG1	2.95	0.48
10:X:42:GLU:CD	10:X:43:ARG:N	2.72	0.48
10:X:56:ARG:O	10:X:63:GLU:HA	2.13	0.48
10:X:158:ARG:HB2	10:X:168:ILE:CG2	2.43	0.48
3:A:95:MET:CE	3:A:96:TYR:H	2.20	0.48
3:A:103:ASN:ND2	3:A:108:ASP:H	2.12	0.48
3:A:145:PRO:HB3	3:A:168:ASN:N	2.28	0.48
3:A:189:LYS:CG	3:A:192:LYS:HZ2	2.27	0.48
3:A:235:LEU:CD2	3:A:250:VAL:CG1	2.90	0.48
3:A:251:LEU:HA	3:A:251:LEU:HD13	1.45	0.48
3:A:591:VAL:HB	3:A:666:GLY:C	2.39	0.48
3:A:724:ILE:O	3:A:725:GLU:OE2	2.32	0.48
3:A:724:ILE:CG1	3:A:725:GLU:N	2.77	0.48
3:A:855:ARG:NH1	3:A:978:TYR:HE2	2.11	0.48
3:A:891:SER:O	3:A:893:MET:HG3	2.14	0.48
3:A:897:GLN:NE2	3:A:897:GLN:H	2.11	0.48
3:A:899:PHE:N	3:A:899:PHE:CD1	2.77	0.48
3:A:957:ILE:HG22	3:A:958:MET:H	1.76	0.48
3:A:1046:GLN:O	3:A:1050:GLU:HB2	2.14	0.48
3:A:1055:ILE:CG2	6:E:387:PHE:CD1	2.97	0.48
3:A:1089:VAL:HG12	3:A:1094:ASP:HB2	1.96	0.48
4:B:57:MET:CG	4:B:58:VAL:H	2.26	0.48
4:B:197:THR:N	4:B:200:LEU:HD12	2.21	0.48
4:B:366:ARG:CD	4:B:377:LEU:HB2	2.43	0.48
4:B:442:VAL:HA	4:B:997:LEU:C	2.39	0.48
4:B:479:LEU:CD2	4:B:481:TRP:CZ2	2.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:586:GLN:HE22	4:B:798:GLU:HA	1.77	0.48
4:B:737:LEU:HD21	4:B:739:ARG:HG3	1.96	0.48
4:B:927:GLU:HA	4:B:933:PHE:CE1	2.49	0.48
4:B:1014:ILE:C	4:B:1017:LEU:HG	2.32	0.48
4:B:1223:ALA:HB1	4:B:1228:LYS:HG2	1.96	0.48
5:C:22:LYS:HA	5:C:196:LEU:O	2.14	0.48
6:E:158:TYR:CG	6:E:159:LYS:HG2	2.49	0.48
6:E:268:ALA:HA	8:G:284:ILE:N	2.29	0.48
6:E:360:SER:HB2	6:E:454:ILE:HD11	1.96	0.48
6:E:400:ASN:O	6:E:404:ALA:HB3	2.14	0.48
6:E:585:THR:CB	6:E:592:ARG:HH21	2.27	0.48
8:G:205:LYS:C	8:G:207:SER:N	2.70	0.48
9:S:126:LEU:CD2	9:S:145:VAL:CG2	2.92	0.48
9:S:151:LEU:HD12	9:U:21:ALA:N	2.23	0.48
9:S:290:ILE:HG23	9:S:294:TRP:CG	2.48	0.48
9:T:185:TRP:O	9:T:262:ALA:O	2.32	0.48
9:T:205:LEU:HD12	9:T:206:VAL:CB	2.44	0.48
9:U:196:PHE:HA	9:U:229:PHE:CD1	2.49	0.48
9:U:248:VAL:O	9:U:252:LEU:N	2.47	0.48
9:V:3:LEU:HD11	9:V:4:GLU:HG3	1.96	0.48
9:V:163:TYR:HE1	9:V:165:GLU:HG3	1.79	0.48
9:V:166:PRO:C	9:V:244:SER:H	2.12	0.48
9:V:195:VAL:HG11	9:V:203:GLN:NE2	2.28	0.48
10:X:47:LEU:HG	10:X:100:LEU:CD2	2.43	0.48
10:X:56:ARG:HD2	10:X:57:VAL:HA	1.95	0.48
10:X:57:VAL:HG22	10:X:58:TYR:CA	2.44	0.48
10:X:156:LEU:HA	10:X:160:PHE:CE1	2.49	0.48
3:A:707:ARG:O	3:A:708:LEU:C	2.57	0.47
3:A:727:ARG:C	3:A:728:GLN:CD	2.82	0.47
3:A:767:ASP:N	3:A:767:ASP:OD1	2.47	0.47
3:A:780:ASP:O	3:A:781:GLN:C	2.56	0.47
3:A:933:HIS:O	3:A:936:LEU:HD12	2.13	0.47
4:B:97:THR:HA	4:B:422:GLN:CD	2.39	0.47
4:B:573:ASN:O	4:B:589:ALA:HB1	2.13	0.47
4:B:973:ARG:CG	4:B:974:VAL:N	2.76	0.47
4:B:1076:VAL:HA	4:B:1081:GLN:OE1	2.13	0.47
4:B:1156:ASP:C	4:B:1156:ASP:OD1	2.57	0.47
5:C:142:ILE:C	5:C:143:GLU:CD	2.82	0.47
5:C:228:SER:HA	5:D:6:ILE:HG21	1.96	0.47
6:E:31:PRO:HA	6:E:33:GLY:H	1.78	0.47
6:E:107:LYS:CA	6:E:248:VAL:HG22	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:117:TYR:CE2	6:E:244:MET:HG2	2.49	0.47
6:E:194:LEU:O	6:E:197:LEU:HB2	2.14	0.47
6:E:194:LEU:CA	6:E:197:LEU:HD12	2.21	0.47
6:E:272:LEU:HD13	6:E:334:LEU:HD13	1.95	0.47
6:E:353:ARG:CZ	6:E:353:ARG:HB3	2.41	0.47
6:E:578:THR:HG22	6:E:584:ARG:C	2.35	0.47
7:F:45:GLU:HG2	7:F:46:GLU:HG3	1.96	0.47
7:F:60:ARG:CG	7:F:61:ALA:N	2.77	0.47
8:G:135:GLU:HB2	8:G:139:LEU:HD12	1.90	0.47
8:G:184:ILE:HG13	8:G:185:GLN:N	2.29	0.47
8:G:214:ILE:HD13	8:G:214:ILE:HA	1.54	0.47
8:G:233:VAL:N	8:G:236:TYR:HE2	2.10	0.47
9:S:39:LEU:C	9:S:39:LEU:HD13	2.39	0.47
9:S:70:ILE:HD13	9:T:70:ILE:HA	1.95	0.47
9:S:226:LEU:HD12	9:S:229:PHE:HD2	1.78	0.47
9:T:118:GLU:OE1	9:T:121:LEU:HD21	2.13	0.47
9:T:293:PHE:O	9:T:297:VAL:N	2.47	0.47
9:U:2:ARG:NH2	9:U:39:LEU:HB2	2.29	0.47
9:U:40:GLU:CA	9:U:46:GLU:HG3	2.43	0.47
9:U:185:TRP:CZ2	9:U:272:LEU:HB3	2.49	0.47
9:U:214:GLU:O	9:U:216:THR:HG23	2.13	0.47
10:X:39:ASP:O	10:X:88:ARG:NE	2.47	0.47
10:X:185:SER:CB	10:X:189:THR:OG1	2.62	0.47
10:Y:34:ILE:HG13	10:Y:93:VAL:HG12	1.96	0.47
10:Y:51:ALA:HA	10:Y:70:ARG:HG2	1.96	0.47
1:1:60:DT:H3	2:2:66:DA:N6	2.12	0.47
3:A:229:PHE:CD1	3:A:233:GLU:HG3	2.49	0.47
3:A:281:LEU:C	3:A:283:LEU:N	2.72	0.47
3:A:547:HIS:CD2	4:B:166:GLY:CA	2.91	0.47
3:A:566:LEU:HA	3:A:566:LEU:HD12	1.30	0.47
3:A:690:TYR:C	3:A:691:MET:CG	2.84	0.47
3:A:713:ILE:CG2	3:A:714:TYR:N	2.77	0.47
3:A:990:ILE:O	3:A:991:HIS:CB	2.52	0.47
3:A:1038:LEU:HB3	6:E:352:LYS:HZ1	1.78	0.47
4:B:66:LEU:O	4:B:67:GLU:C	2.57	0.47
4:B:80:TYR:HD2	4:B:90:ARG:HH21	1.60	0.47
4:B:148:ALA:HA	4:B:154:ILE:HA	1.96	0.47
4:B:564:ILE:HG12	4:B:589:ALA:CB	2.44	0.47
4:B:603:PHE:CB	4:B:632:ILE:HB	2.43	0.47
4:B:611:VAL:HG13	4:B:622:GLU:CG	2.44	0.47
4:B:824:ASP:O	4:B:825:ALA:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:910:ILE:HD12	4:B:943:VAL:CG1	2.31	0.47
4:B:1044:ASP:O	4:B:1045:GLU:HB2	2.14	0.47
4:B:1059:THR:HG22	4:B:1060:ASP:O	2.14	0.47
4:B:1235:LEU:HD12	4:B:1236:LYS:CG	2.44	0.47
5:C:43:VAL:C	5:C:46:SER:H	2.22	0.47
5:C:87:LEU:C	5:C:121:ILE:HD11	2.39	0.47
5:D:5:GLN:HE21	5:D:7:GLU:CD	2.13	0.47
6:E:80:ARG:NH2	8:G:345:ASP:OD1	2.47	0.47
6:E:290:GLN:O	6:E:293:LEU:CA	2.62	0.47
6:E:469:ASP:O	6:E:469:ASP:OD1	2.32	0.47
6:E:480:SER:HG	6:E:482:GLU:N	2.11	0.47
6:E:543:MET:C	6:E:545:PHE:N	2.70	0.47
8:G:135:GLU:HG3	8:G:139:LEU:HG	1.96	0.47
8:G:363:GLU:OE2	8:G:364:ARG:HG3	2.14	0.47
8:G:363:GLU:O	8:G:365:ILE:N	2.47	0.47
9:S:16:GLY:O	9:S:17:SER:HB2	2.14	0.47
9:S:135:LEU:O	9:S:153:THR:HG22	2.10	0.47
9:T:141:ASP:O	9:T:284:ARG:HB3	2.13	0.47
9:T:161:VAL:HB	9:T:275:ARG:NH2	2.29	0.47
9:T:172:ALA:HB1	9:T:255:THR:HG22	1.96	0.47
9:U:284:ARG:HD2	9:U:290:ILE:HB	1.96	0.47
9:V:9:PHE:HZ	9:V:63:LEU:HD13	1.78	0.47
9:V:69:LYS:HA	9:V:72:LEU:HG	1.95	0.47
9:V:185:TRP:HZ3	9:V:214:GLU:HB3	1.78	0.47
9:V:274:ARG:O	9:V:275:ARG:C	2.57	0.47
10:X:51:ALA:HA	10:X:70:ARG:HG2	1.96	0.47
10:X:118:LEU:O	10:X:122:MET:HG2	2.13	0.47
10:X:168:ILE:HG12	10:X:215:PRO:HB3	1.95	0.47
1:1:45:DC:N3	2:2:81:DG:N2	2.43	0.47
3:A:130:ILE:HD12	3:A:131:ASN:HB3	1.95	0.47
3:A:131:ASN:C	3:A:133:ALA:N	2.72	0.47
3:A:168:ASN:ND2	3:A:270:GLY:HA3	2.28	0.47
3:A:218:TYR:O	3:A:219:PHE:HB2	2.13	0.47
3:A:242:LEU:HA	3:A:242:LEU:HD12	1.52	0.47
3:A:260:ARG:HD3	3:A:260:ARG:HA	1.48	0.47
3:A:270:GLY:C	3:A:273:GLY:H	2.09	0.47
3:A:519:THR:C	3:A:523:GLN:NE2	2.72	0.47
3:A:558:ASN:ND2	3:A:561:ARG:HE	2.03	0.47
3:A:620:LYS:HB2	3:A:633:GLN:CG	2.44	0.47
3:A:718:HIS:C	3:A:719:ILE:CG2	2.87	0.47
3:A:767:ASP:CB	3:A:806:VAL:CG1	2.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:998:TYR:HB3	3:A:1003:GLN:C	2.39	0.47
3:A:1092:GLN:O	3:A:1093:ALA:C	2.56	0.47
4:B:140:LEU:HD23	4:B:140:LEU:HA	1.47	0.47
4:B:179:ALA:O	4:B:181:LYS:N	2.47	0.47
4:B:384:ILE:C	4:B:406:GLN:HA	2.38	0.47
4:B:451:GLY:H	4:B:988:VAL:CG2	2.28	0.47
4:B:488:TYR:HB2	4:B:897:CYS:SG	2.54	0.47
4:B:936:GLU:CD	4:B:966:ILE:HD13	2.37	0.47
4:B:1126:GLN:NE2	4:B:1136:ILE:CG1	2.78	0.47
4:B:1154:ILE:HD12	4:B:1154:ILE:HG23	1.49	0.47
5:C:5:GLN:N	5:C:5:GLN:OE1	2.47	0.47
5:D:220:LEU:C	5:D:220:LEU:HD12	2.39	0.47
6:E:20:GLU:CA	6:E:23:ARG:HD3	2.29	0.47
6:E:26:GLY:HA2	6:E:103:MET:O	2.14	0.47
6:E:61:ARG:CZ	6:E:72:HIS:ND1	2.76	0.47
6:E:276:TYR:C	6:E:279:VAL:H	2.14	0.47
6:E:279:VAL:HG13	6:E:280:ILE:H	1.78	0.47
6:E:407:LEU:O	6:E:411:ASN:N	2.46	0.47
7:F:51:GLU:O	7:F:52:ASP:C	2.57	0.47
8:G:206:PHE:HB2	8:G:210:ALA:CA	2.43	0.47
9:S:17:SER:O	9:S:29:GLN:OE1	2.33	0.47
9:T:108:VAL:HG22	9:T:296:LEU:HD11	1.96	0.47
9:T:190:ARG:HA	9:T:215:ALA:HA	1.96	0.47
9:T:205:LEU:CG	9:T:206:VAL:H	2.27	0.47
9:U:92:LEU:HD22	9:U:290:ILE:HD12	1.94	0.47
9:U:98:HIS:CG	9:U:99:SER:H	2.32	0.47
9:U:131:ALA:HB1	9:U:135:LEU:CB	2.43	0.47
9:U:167:ILE:HG12	9:U:261:LEU:C	2.37	0.47
9:U:170:LEU:HB3	9:U:247:LEU:CB	2.44	0.47
9:U:183:VAL:HB	9:U:261:LEU:C	2.39	0.47
9:U:188:LEU:HB2	9:U:239:ILE:HD12	1.97	0.47
9:V:72:LEU:O	9:V:75:GLU:CB	2.62	0.47
9:V:160:GLU:OE2	9:V:294:TRP:CD2	2.68	0.47
9:V:200:TYR:CD1	9:V:202:MET:N	2.83	0.47
9:V:208:GLU:O	9:V:209:LYS:HB2	2.13	0.47
9:V:229:PHE:CD2	9:V:229:PHE:N	2.80	0.47
9:V:229:PHE:CE2	9:V:240:ALA:HB3	2.50	0.47
10:Y:104:PRO:O	10:Y:106:GLU:N	2.47	0.47
1:1:22:DG:O3'	2:2:106:DT:H4'	2.14	0.47
3:A:97:VAL:C	3:A:113:GLU:HG2	2.39	0.47
3:A:99:THR:HG1	3:A:100:ARG:H	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:200:LYS:HD2	3:A:257:LEU:HD13	1.95	0.47
3:A:258:ASP:HB2	3:A:263:ASP:OD1	2.15	0.47
3:A:263:ASP:O	3:A:265:LYS:N	2.47	0.47
3:A:301:VAL:O	3:A:302:ASP:C	2.58	0.47
3:A:470:ARG:HH12	3:A:500:ASN:CB	2.26	0.47
3:A:558:ASN:HB3	3:A:561:ARG:HD2	1.96	0.47
3:A:564:VAL:H	3:A:564:VAL:HG22	1.23	0.47
3:A:581:GLN:O	3:A:584:ARG:N	2.47	0.47
3:A:717:ILE:O	3:A:718:HIS:CD2	2.67	0.47
3:A:822:ARG:CZ	8:G:274:ARG:HH12	2.28	0.47
3:A:894:ASN:OD1	3:A:894:ASN:N	2.34	0.47
3:A:897:GLN:HA	3:A:900:GLU:CD	2.39	0.47
3:A:1046:GLN:N	3:A:1046:GLN:CD	2.62	0.47
4:B:18:SER:HG	4:B:19:TRP:H	1.57	0.47
4:B:72:GLU:CD	4:B:97:THR:OG1	2.57	0.47
4:B:129:GLY:O	4:B:130:ALA:HB2	2.13	0.47
4:B:239:LEU:C	4:B:240:LEU:HG	2.39	0.47
4:B:242:ARG:HD3	4:B:1138:ASP:CG	2.39	0.47
4:B:283:ARG:NE	4:B:297:HIS:C	2.72	0.47
4:B:299:TYR:CE2	4:B:302:SER:HA	2.50	0.47
4:B:442:VAL:C	4:B:999:PHE:HD2	2.22	0.47
4:B:461:GLU:O	4:B:473:THR:N	2.39	0.47
4:B:582:VAL:C	4:B:814:ALA:HB1	2.39	0.47
4:B:682:ARG:HG3	4:B:683:GLU:CG	2.38	0.47
4:B:776:TYR:CG	4:B:777:LYS:N	2.75	0.47
4:B:940:ILE:HA	4:B:966:ILE:CD1	2.44	0.47
4:B:1078:PRO:O	4:B:1079:ALA:C	2.57	0.47
5:C:29:GLU:HA	5:C:191:LYS:HG2	1.97	0.47
5:C:182:GLU:HA	5:C:192:ASP:HB3	1.96	0.47
5:D:5:GLN:N	5:D:5:GLN:OE1	2.47	0.47
5:D:82:MET:C	5:D:84:GLU:CD	2.82	0.47
6:E:19:PRO:CB	6:E:247:THR:HG21	2.44	0.47
6:E:43:GLU:CG	6:E:44:THR:O	2.61	0.47
6:E:52:PRO:HG2	6:E:60:GLU:OE2	2.14	0.47
6:E:385:GLN:N	6:E:386:PRO:HD2	2.29	0.47
8:G:110:LEU:HG	8:G:111:LEU:H	1.80	0.47
8:G:114:GLU:O	8:G:115:ARG:C	2.58	0.47
8:G:186:GLU:O	8:G:189:LEU:HB2	2.15	0.47
8:G:223:ALA:C	8:G:225:GLN:N	2.57	0.47
8:G:270:ILE:HA	8:G:273:LEU:HB2	1.95	0.47
8:G:312:GLN:HG3	8:G:313:VAL:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:64:LEU:HB2	9:S:68:ARG:CG	2.45	0.47
9:S:166:PRO:O	9:S:244:SER:HB2	2.15	0.47
9:T:47:LEU:HB3	9:T:57:THR:O	2.14	0.47
9:T:49:HIS:HA	9:T:51:THR:OG1	2.12	0.47
9:T:66:ARG:O	9:T:67:ALA:C	2.56	0.47
9:T:97:ILE:HG23	9:T:100:LEU:HB2	1.83	0.47
9:T:158:VAL:H	9:T:281:THR:HA	1.79	0.47
9:T:206:VAL:HA	9:T:209:LYS:CB	2.40	0.47
9:U:128:SER:HB2	9:U:201:GLY:HA3	1.96	0.47
9:V:93:CYS:HB3	9:V:140:VAL:HG12	1.96	0.47
9:V:163:TYR:CE1	9:V:165:GLU:CG	2.97	0.47
10:X:133:THR:C	10:X:137:ILE:HG13	2.39	0.47
10:X:202:MET:HB3	10:X:212:VAL:N	2.29	0.47
10:Y:81:LEU:C	10:Y:83:GLY:N	2.67	0.47
10:Y:128:SER:OG	10:Y:129:ARG:N	2.48	0.47
2:2:101:DA:H1'	2:2:102:DT:H5'	1.97	0.47
2:2:110:DT:C6	2:2:111:DT:H73	2.49	0.47
3:A:143:ARG:HA	3:A:323:ARG:HA	1.97	0.47
3:A:152:GLU:O	3:A:159:ARG:HG2	2.15	0.47
3:A:205:SER:O	3:A:206:ASP:C	2.57	0.47
3:A:423:HIS:CD2	3:A:425:SER:HB3	2.48	0.47
3:A:471:VAL:HG22	3:A:472:ARG:N	2.29	0.47
3:A:491:ALA:HB3	3:A:527:VAL:HB	1.97	0.47
3:A:527:VAL:HG22	3:A:528:ALA:H	1.79	0.47
3:A:990:ILE:HG13	3:A:991:HIS:N	2.28	0.47
4:B:21:PHE:CZ	6:E:497:ILE:HD12	2.48	0.47
4:B:94:VAL:HG13	4:B:95:ILE:N	2.30	0.47
4:B:371:ARG:HA	4:B:371:ARG:NE	2.29	0.47
4:B:442:VAL:HB	4:B:996:LEU:HB3	1.97	0.47
4:B:568:ASN:HB3	4:B:753:PRO:HA	1.95	0.47
4:B:568:ASN:O	4:B:569:ASN:C	2.58	0.47
4:B:597:ARG:HG3	4:B:788:VAL:CG2	2.44	0.47
4:B:670:GLY:HA3	4:B:689:GLY:H	1.55	0.47
4:B:694:VAL:H	4:B:735:ALA:C	2.22	0.47
4:B:800:GLU:O	4:B:801:GLN:HB2	2.15	0.47
4:B:882:GLY:HA2	4:B:900:LEU:H	1.80	0.47
4:B:1095:GLU:O	4:B:1096:VAL:C	2.57	0.47
4:B:1110:ALA:O	4:B:1113:ALA:N	2.47	0.47
5:C:48:LEU:HD21	5:C:173:VAL:HG12	1.96	0.47
5:C:67:THR:HA	5:C:74:ASP:OD2	2.14	0.47
5:C:107:ILE:HD11	5:C:135:LYS:HZ2	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:218:VAL:CG1	5:C:219:ASP:N	2.77	0.47
5:D:55:ALA:O	5:D:140:PHE:HB2	2.13	0.47
5:D:218:VAL:CG1	5:D:219:ASP:N	2.77	0.47
6:E:19:PRO:O	6:E:22:ILE:N	2.48	0.47
6:E:153:ALA:CB	6:E:182:GLN:HB2	2.45	0.47
6:E:232:ASP:HA	6:E:235:ILE:HG12	1.96	0.47
6:E:481:LEU:CG	6:E:482:GLU:N	2.77	0.47
6:E:591:ARG:HB2	6:E:604:GLN:O	2.13	0.47
8:G:103:LEU:O	8:G:107:ILE:N	2.43	0.47
8:G:259:GLU:CD	8:G:260:GLU:N	2.72	0.47
8:G:339:LEU:HD13	8:G:344:ASP:HB3	1.96	0.47
9:S:3:LEU:HD22	9:S:74:TRP:HZ2	1.79	0.47
9:S:128:SER:CA	9:S:145:VAL:HG11	2.43	0.47
9:S:186:SER:C	9:S:188:LEU:N	2.72	0.47
9:S:278:MET:C	9:S:294:TRP:CH2	2.91	0.47
9:T:95:ALA:HB2	9:T:126:LEU:HD11	1.95	0.47
9:T:195:VAL:CG1	9:T:203:GLN:HA	2.44	0.47
9:T:198:ASP:N	9:T:203:GLN:OE1	2.48	0.47
9:V:108:VAL:CG2	9:V:293:PHE:CZ	2.96	0.47
9:V:166:PRO:HG2	9:V:168:GLU:OE2	2.13	0.47
9:V:208:GLU:OE1	9:V:212:ARG:NH1	2.48	0.47
10:X:55:SER:CB	10:X:92:ALA:HA	2.29	0.47
10:X:170:ILE:HG13	10:X:210:ILE:O	2.14	0.47
10:Y:47:LEU:HD22	10:Y:69:LEU:HD23	1.96	0.47
10:Y:173:LYS:HA	10:Y:208:LYS:CB	2.45	0.47
10:Y:179:ILE:HG13	10:Y:180:ALA:N	2.30	0.47
2:2:63:DC:H2"	2:2:64:DA:N7	2.30	0.47
3:A:42:LEU:HD23	3:A:42:LEU:N	2.25	0.47
3:A:264:PRO:CD	3:A:265:LYS:H	2.27	0.47
3:A:285:VAL:O	3:A:287:ASP:HB2	2.15	0.47
3:A:327:SER:O	3:A:330:GLU:HG2	2.15	0.47
3:A:417:PHE:C	3:A:419:VAL:HG22	2.40	0.47
3:A:471:VAL:HG13	3:A:472:ARG:H	1.78	0.47
3:A:490:VAL:HG22	3:A:526:TYR:O	2.15	0.47
3:A:568:LYS:HZ1	3:A:713:ILE:HG13	1.79	0.47
3:A:715:THR:HA	3:A:845:LYS:HA	1.96	0.47
3:A:910:LEU:HD23	3:A:939:ALA:HB1	1.96	0.47
3:A:959:VAL:HG12	3:A:968:PHE:HD2	1.77	0.47
3:A:1041:LYS:HD3	6:E:355:ASP:CB	2.44	0.47
4:B:53:VAL:C	4:B:55:ASP:N	2.69	0.47
4:B:78:VAL:HA	4:B:81:GLN:HE22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:127:PHE:CD2	4:B:349:VAL:HA	2.49	0.47
4:B:194:GLY:C	4:B:198:ARG:CD	2.86	0.47
4:B:196:LEU:HB3	4:B:324:GLY:HA3	1.97	0.47
4:B:366:ARG:HG3	4:B:370:THR:CG2	2.44	0.47
4:B:596:TYR:CB	4:B:791:LEU:HB2	2.32	0.47
4:B:818:LEU:HA	4:B:819:ILE:HD12	1.96	0.47
4:B:885:ARG:C	4:B:887:VAL:H	2.23	0.47
4:B:1090:PRO:O	4:B:1091:HIS:C	2.56	0.47
4:B:1107:TYR:CZ	4:B:1170:LEU:HD11	2.50	0.47
5:C:61:VAL:HG12	5:C:63:HIS:N	2.29	0.47
5:D:90:TYR:HD2	9:U:155:ARG:CG	2.15	0.47
5:D:91:SER:C	5:D:92:SER:HG	2.22	0.47
5:D:121:ILE:HG21	5:D:203:SER:HA	1.96	0.47
5:D:206:PRO:HA	5:D:210:LEU:H	1.79	0.47
5:D:226:ASP:O	5:D:227:ILE:C	2.56	0.47
6:E:78:ARG:HG2	8:G:346:GLY:CA	2.36	0.47
6:E:188:ILE:HG13	6:E:189:GLY:N	2.29	0.47
6:E:257:ARG:O	6:E:258:PRO:O	2.32	0.47
6:E:608:THR:CB	6:E:612:ARG:NE	2.76	0.47
7:F:59:LEU:O	7:F:60:ARG:C	2.53	0.47
8:G:244:LYS:HE3	8:G:244:LYS:HB3	1.69	0.47
8:G:336:VAL:HG12	8:G:337:LEU:N	2.30	0.47
9:S:8:ALA:CB	9:S:21:ALA:HB1	2.37	0.47
9:S:277:VAL:HG12	9:S:279:VAL:CG2	2.45	0.47
9:T:66:ARG:HG2	9:T:70:ILE:CG2	2.44	0.47
9:U:94:ILE:HD13	9:U:290:ILE:HG23	1.96	0.47
9:U:202:MET:HB3	9:U:274:ARG:NH2	2.30	0.47
9:V:130:ARG:CA	9:V:133:LYS:HG2	2.36	0.47
9:V:139:LEU:CG	9:V:140:VAL:H	2.02	0.47
9:V:163:TYR:CE1	9:V:165:GLU:HG3	2.49	0.47
9:V:168:GLU:CA	9:V:261:LEU:H	2.20	0.47
9:V:195:VAL:O	9:V:223:VAL:N	2.28	0.47
9:V:205:LEU:HD11	9:V:272:LEU:HG	1.92	0.47
10:X:98:VAL:HG12	10:X:100:LEU:CD1	2.44	0.47
10:X:161:GLY:HA3	10:X:171:ASP:OD1	2.14	0.47
10:Y:57:VAL:HG22	10:Y:58:TYR:CA	2.44	0.47
10:Y:90:TYR:O	10:Y:91:HIS:HB2	2.14	0.47
1:1:52:DA:H4'	9:S:53:HIS:HE1	1.79	0.47
3:A:38:PHE:C	3:A:38:PHE:CD1	2.87	0.47
3:A:83:GLU:HA	3:A:86:ARG:HG3	1.94	0.47
3:A:123:THR:OG1	3:A:129:ILE:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:135:ARG:HB3	3:A:384:SER:HG	1.80	0.47
3:A:135:ARG:HH21	3:A:379:GLY:HA2	1.79	0.47
3:A:153:ILE:CG1	3:A:159:ARG:HG3	2.31	0.47
3:A:166:ILE:HG13	3:A:172:TRP:CA	2.37	0.47
3:A:293:THR:HG23	3:A:296:ASP:CG	2.39	0.47
3:A:406:GLY:O	3:A:407:PRO:C	2.53	0.47
3:A:473:PHE:CG	3:A:473:PHE:O	2.68	0.47
3:A:488:LEU:HD23	3:A:489:ARG:O	2.15	0.47
3:A:500:ASN:ND2	3:A:502:TYR:CE2	2.83	0.47
3:A:675:THR:HG23	3:A:676:GLU:O	2.14	0.47
3:A:706:GLU:CD	3:A:868:ILE:N	2.70	0.47
3:A:719:ILE:HG21	3:A:719:ILE:HD13	1.46	0.47
3:A:726:ALA:C	3:A:833:ASN:ND2	2.68	0.47
3:A:727:ARG:HH12	3:A:730:LYS:N	2.13	0.47
3:A:875:PRO:O	5:C:177:ASN:ND2	2.47	0.47
3:A:876:ASP:OD1	3:A:876:ASP:C	2.56	0.47
3:A:933:HIS:CA	3:A:936:LEU:HD12	2.39	0.47
3:A:1005:PRO:HG2	6:E:355:ASP:CG	2.39	0.47
3:A:1045:MET:SD	3:A:1045:MET:N	2.88	0.47
4:B:10:LYS:O	4:B:11:GLY:C	2.57	0.47
4:B:52:SER:OG	4:B:54:ASP:N	2.48	0.47
4:B:76:THR:HG23	4:B:90:ARG:HB2	1.97	0.47
4:B:90:ARG:HB3	4:B:372:HIS:CB	2.35	0.47
4:B:92:GLN:HE22	4:B:376:ALA:C	2.21	0.47
4:B:117:ASN:ND2	4:B:120:ASN:HA	2.30	0.47
4:B:146:LEU:CD1	4:B:158:PRO:CA	2.93	0.47
4:B:269:ALA:O	4:B:271:GLU:C	2.57	0.47
4:B:357:ILE:C	4:B:389:PRO:HB3	2.39	0.47
4:B:479:LEU:CB	4:B:481:TRP:CZ3	2.80	0.47
4:B:523:VAL:HB	4:B:859:VAL:HG13	1.96	0.47
4:B:528:ALA:HB1	4:B:531:GLY:O	2.15	0.47
4:B:543:SER:CB	4:B:759:SER:HB2	2.41	0.47
4:B:550:THR:HG22	4:B:551:VAL:N	2.26	0.47
4:B:613:LYS:HA	4:B:613:LYS:HD2	1.67	0.47
4:B:690:GLU:O	4:B:737:LEU:HD13	2.15	0.47
4:B:701:ILE:CD1	4:B:728:VAL:HG23	2.45	0.47
4:B:768:MET:HA	4:B:797:LEU:CD1	2.20	0.47
4:B:775:PRO:HD3	4:B:790:LEU:C	2.40	0.47
4:B:810:SER:HB2	4:B:811:PRO:HD3	1.97	0.47
4:B:896:ARG:HD2	4:B:986:ASP:HA	1.75	0.47
4:B:1035:GLU:HG2	4:B:1036:VAL:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1078:PRO:HG2	4:B:1100:LEU:HD21	1.96	0.47
5:C:5:GLN:HE22	5:C:26:GLU:HB2	1.78	0.47
5:C:56:VAL:CG1	5:C:164:LEU:HB2	2.45	0.47
5:C:109:ALA:O	5:C:110:SER:C	2.57	0.47
5:D:53:VAL:HG12	5:D:54:THR:C	2.39	0.47
5:D:142:ILE:C	5:D:143:GLU:CD	2.82	0.47
5:D:188:SER:C	5:D:189:ILE:CG1	2.85	0.47
6:E:29:THR:HA	6:E:34:GLN:O	2.14	0.47
6:E:42:PRO:O	6:E:42:PRO:HG2	2.14	0.47
6:E:76:TYR:CE2	6:E:86:CYS:HA	2.50	0.47
6:E:116:TRP:C	6:E:117:TYR:CG	2.92	0.47
6:E:178:ASP:C	6:E:180:GLN:N	2.73	0.47
6:E:191:GLU:CA	6:E:194:LEU:HD21	2.44	0.47
6:E:198:ALA:HB2	6:E:242:GLU:OE1	2.14	0.47
6:E:332:LYS:HB2	6:E:332:LYS:HE2	1.60	0.47
6:E:519:TYR:O	6:E:553:HIS:CE1	2.68	0.47
6:E:520:LEU:O	6:E:520:LEU:HD23	2.15	0.47
6:E:570:ASP:O	6:E:591:ARG:NH2	2.48	0.47
7:F:58:VAL:HG22	7:F:59:LEU:N	2.24	0.47
8:G:106:LYS:HD2	8:G:151:GLY:HA3	1.93	0.47
8:G:108:ALA:C	8:G:112:GLU:OE1	2.57	0.47
8:G:258:THR:CB	8:G:261:GLU:HB3	2.44	0.47
8:G:346:GLY:O	8:G:347:ARG:HB3	2.14	0.47
8:G:364:ARG:O	8:G:365:ILE:C	2.58	0.47
8:G:378:HIS:HB2	8:G:381:ARG:NH1	2.30	0.47
9:S:64:LEU:HB2	9:S:68:ARG:CD	2.44	0.47
9:S:81:LEU:HD22	9:S:81:LEU:C	2.30	0.47
9:S:93:CYS:SG	9:S:122:ARG:HB2	2.55	0.47
9:S:138:GLY:HA3	9:S:284:ARG:HH21	1.79	0.47
9:S:222:GLU:N	9:S:222:GLU:OE1	2.47	0.47
9:S:243:PRO:HG3	9:S:274:ARG:NH2	2.30	0.47
9:S:251:ARG:O	9:S:257:ALA:HA	2.14	0.47
9:T:40:GLU:HA	9:T:46:GLU:HB3	1.96	0.47
9:T:47:LEU:O	9:T:48:PHE:HB3	2.14	0.47
9:T:129:ASP:C	9:T:131:ALA:N	2.67	0.47
9:T:162:LEU:HA	9:T:301:ILE:HG22	1.96	0.47
9:T:188:LEU:O	9:T:189:VAL:HB	2.14	0.47
9:T:197:LYS:HB2	9:T:200:TYR:CG	2.46	0.47
9:U:141:ASP:HB2	9:U:284:ARG:HE	1.80	0.47
9:U:282:GLN:C	9:U:285:LEU:H	2.22	0.47
9:V:43:LEU:HD13	9:V:66:ARG:NH2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:104:TYR:N	9:V:104:TYR:CD1	2.82	0.47
9:V:159:VAL:HG13	9:V:278:MET:HB3	1.97	0.47
9:V:200:TYR:C	9:V:203:GLN:H	2.22	0.47
9:V:267:PRO:O	9:V:269:ASN:ND2	2.36	0.47
10:X:42:GLU:HA	10:X:79:SER:CB	2.22	0.47
10:X:47:LEU:HA	10:X:100:LEU:CB	2.45	0.47
10:X:101:LEU:CG	10:X:102:SER:N	2.78	0.47
10:Y:39:ASP:O	10:Y:88:ARG:NE	2.47	0.47
10:Y:179:ILE:HD11	10:Y:189:THR:C	2.27	0.47
1:1:23:DC:H41	9:U:34:ARG:CZ	2.27	0.47
3:A:57:THR:CB	3:A:64:GLU:HA	2.44	0.47
3:A:92:ALA:HA	3:A:120:PRO:HA	1.96	0.47
3:A:326:ARG:HB2	3:A:330:GLU:CG	2.45	0.47
3:A:463:PHE:CE2	3:A:481:THR:N	2.82	0.47
3:A:568:LYS:NZ	3:A:713:ILE:CD1	2.78	0.47
3:A:728:GLN:N	3:A:728:GLN:CD	2.73	0.47
3:A:764:GLU:N	3:A:767:ASP:OD2	2.39	0.47
3:A:929:ARG:NE	3:A:933:HIS:CE1	2.82	0.47
3:A:1066:THR:O	3:A:1067:PRO:C	2.54	0.47
3:A:1088:LYS:HB2	3:A:1091:THR:HG23	1.97	0.47
4:B:355:GLY:CA	4:B:412:ILE:HD13	2.31	0.47
4:B:408:SER:C	4:B:410:ILE:N	2.66	0.47
4:B:489:ASN:HB3	4:B:849:THR:HG23	1.96	0.47
4:B:520:GLY:C	4:B:539:ILE:HG21	2.40	0.47
4:B:541:THR:OG1	4:B:808:ASN:ND2	2.48	0.47
4:B:1008:ILE:HG12	4:B:1009:GLN:H	1.80	0.47
4:B:1022:LYS:HG2	4:B:1089:ASN:HB2	1.97	0.47
4:B:1059:THR:HG22	4:B:1060:ASP:N	2.28	0.47
5:C:86:ILE:HD12	5:C:86:ILE:HA	1.60	0.47
6:E:535:PHE:C	6:E:537:SER:N	2.73	0.47
6:E:608:THR:HB	6:E:612:ARG:HE	1.78	0.47
7:F:29:TYR:O	7:F:32:THR:HG23	2.14	0.47
7:F:65:MET:CB	7:F:69:LEU:HD11	2.36	0.47
8:G:108:ALA:HB1	8:G:112:GLU:OE2	2.14	0.47
8:G:173:TYR:HB3	8:G:176:ARG:HG2	1.96	0.47
8:G:319:ARG:O	8:G:322:LEU:HB3	2.14	0.47
8:G:329:LEU:CD1	8:G:334:ARG:N	2.77	0.47
9:S:223:VAL:CG2	9:U:113:CYS:SG	3.03	0.47
9:T:200:TYR:CA	9:T:203:GLN:HB3	2.45	0.47
9:T:225:THR:HG23	9:T:227:ASP:N	2.30	0.47
9:U:47:LEU:HD13	9:U:56:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:167:ILE:HD11	9:U:262:ALA:HA	0.70	0.47
9:V:104:TYR:CG	9:V:303:PRO:HD2	2.49	0.47
10:X:118:LEU:HD23	10:X:121:LEU:HD13	1.97	0.47
10:X:212:VAL:HG13	10:X:214:LYS:O	2.13	0.47
10:Y:177:GLN:CD	10:Y:190:VAL:HG21	2.30	0.47
3:A:44:GLU:CD	3:A:45:GLY:N	2.73	0.47
3:A:113:GLU:CD	3:A:114:VAL:N	2.73	0.47
3:A:251:LEU:O	3:A:254:GLN:N	2.47	0.47
3:A:261:PHE:C	3:A:263:ASP:N	2.70	0.47
3:A:342:ARG:O	3:A:343:LEU:C	2.58	0.47
3:A:498:ASP:OD1	3:A:498:ASP:C	2.57	0.47
3:A:524:VAL:O	3:A:525:ASP:CB	2.61	0.47
3:A:568:LYS:HD2	3:A:568:LYS:C	2.40	0.47
3:A:575:GLY:HA3	3:A:914:PHE:HB2	1.96	0.47
3:A:716:SER:C	3:A:717:ILE:HG23	2.39	0.47
3:A:820:PHE:CZ	3:A:835:VAL:HG21	2.50	0.47
3:A:838:VAL:CG2	3:A:839:TYR:N	2.77	0.47
3:A:990:ILE:HD13	6:E:452:ARG:HB3	1.97	0.47
3:A:1030:ALA:N	7:F:29:TYR:OH	2.40	0.47
4:B:37:LYS:HD2	6:E:509:PRO:CA	2.40	0.47
4:B:84:GLU:C	4:B:85:ILE:HG23	2.40	0.47
4:B:97:THR:CA	4:B:422:GLN:CD	2.88	0.47
4:B:299:TYR:CB	4:B:1139:LYS:CE	2.75	0.47
4:B:440:LYS:HA	4:B:999:PHE:O	2.15	0.47
4:B:511:ALA:N	4:B:875:GLN:OE1	2.48	0.47
4:B:606:PHE:CE1	4:B:778:ASP:HB2	2.47	0.47
4:B:626:GLY:C	4:B:628:THR:H	2.23	0.47
4:B:645:LEU:H	4:B:662:LYS:HZ2	1.62	0.47
4:B:645:LEU:CB	4:B:662:LYS:HD3	2.36	0.47
4:B:687:LYS:HG3	4:B:688:PRO:HD3	1.97	0.47
4:B:695:ASP:OD1	4:B:734:PRO:HB3	2.14	0.47
4:B:764:ARG:NH1	4:B:764:ARG:HG3	2.30	0.47
4:B:842:ARG:HB3	4:B:844:ILE:HG22	1.97	0.47
4:B:901:ARG:HG2	4:B:902:HIS:N	2.30	0.47
4:B:1022:LYS:HB3	4:B:1025:GLU:HA	1.97	0.47
5:C:82:MET:C	5:C:84:GLU:CD	2.82	0.47
5:C:141:ARG:HH12	5:C:155:ARG:CB	2.18	0.47
5:C:203:SER:O	5:C:204:ILE:HD13	2.15	0.47
5:D:81:ARG:NE	5:D:126:TYR:CE2	2.81	0.47
6:E:153:ALA:HB3	6:E:154:GLU:OE1	2.15	0.47
6:E:286:LEU:C	6:E:290:GLN:HE21	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:362:ILE:HD13	6:E:454:ILE:HB	1.94	0.47
6:E:429:MET:HB3	6:E:429:MET:HE2	1.55	0.47
7:F:21:LEU:HD11	7:F:66:SER:HB2	1.97	0.47
7:F:31:ILE:O	7:F:34:GLN:CD	2.58	0.47
7:F:58:VAL:O	7:F:61:ALA:HB3	2.15	0.47
8:G:218:ILE:O	8:G:221:ALA:HB3	2.15	0.47
9:S:3:LEU:HA	9:S:3:LEU:HD23	1.65	0.47
9:S:49:HIS:CG	9:S:55:LYS:HB2	2.50	0.47
9:S:159:VAL:HG13	9:U:20:LYS:HZ1	1.78	0.47
9:S:201:GLY:HA2	9:S:204:ARG:CG	2.44	0.47
9:T:130:ARG:O	9:T:134:VAL:HG13	2.15	0.47
9:T:298:ARG:HA	9:T:302:PRO:CG	2.43	0.47
9:U:70:ILE:CD1	9:V:70:ILE:CG2	2.92	0.47
9:U:192:PRO:O	9:U:219:ALA:HA	2.14	0.47
9:V:1:MET:O	9:V:6:LEU:HB2	2.15	0.47
9:V:101:CYS:SG	9:V:105:LEU:HD23	2.54	0.47
9:V:158:VAL:H	9:V:280:THR:H	1.61	0.47
10:X:101:LEU:HD21	10:X:103:ALA:CA	2.44	0.47
10:Y:69:LEU:HA	10:Y:69:LEU:HD12	1.60	0.47
10:Y:188:VAL:C	10:Y:189:THR:HG1	2.18	0.47
1:1:84:DA:H2"	1:1:85:DG:H5"	1.97	0.47
3:A:46:LEU:O	3:A:50:LEU:HG	2.15	0.47
3:A:164:SER:C	3:A:173:LEU:O	2.57	0.47
3:A:250:VAL:HG23	3:A:251:LEU:N	2.30	0.47
3:A:351:MET:SD	3:A:364:LEU:HB2	2.55	0.47
3:A:400:ARG:O	3:A:447:LEU:CD1	2.60	0.47
3:A:464:ARG:HA	3:A:478:ALA:HA	1.97	0.47
3:A:596:GLY:HA2	3:A:618:SER:HB2	1.96	0.47
4:B:119:LEU:HA	4:B:119:LEU:HD23	1.34	0.47
4:B:220:ILE:HG23	4:B:221:PRO:HD2	1.97	0.47
4:B:224:PRO:C	4:B:226:THR:OG1	2.54	0.47
4:B:244:VAL:HG12	4:B:246:GLU:H	1.80	0.47
4:B:533:SER:O	4:B:535:ARG:NH1	2.47	0.47
4:B:538:GLU:HB2	4:B:540:ILE:HG12	1.97	0.47
4:B:623:VAL:HG21	4:B:772:GLN:H	1.80	0.47
4:B:631:TRP:CD1	4:B:742:VAL:CG1	2.94	0.47
4:B:693:MET:O	4:B:693:MET:SD	2.73	0.47
4:B:916:VAL:HG11	4:B:940:ILE:HD13	1.96	0.47
4:B:922:ILE:HD12	4:B:940:ILE:HB	1.97	0.47
4:B:997:LEU:C	4:B:997:LEU:HD23	2.40	0.47
4:B:1040:TYR:HB3	4:B:1049:ILE:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1126:GLN:CA	4:B:1136:ILE:HD13	1.99	0.47
4:B:1154:ILE:HD13	4:B:1190:TYR:HB3	1.97	0.47
4:B:1222:GLU:OE2	4:B:1226:GLU:OE2	2.33	0.47
4:B:1248:GLY:HA2	7:F:29:TYR:OH	2.15	0.47
5:C:96:ILE:CG2	5:C:139:GLU:HB2	2.45	0.47
5:D:87:LEU:C	5:D:121:ILE:HD11	2.39	0.47
5:D:180:VAL:CG1	5:D:194:LEU:CD1	2.89	0.47
6:E:22:ILE:HA	6:E:25:TRP:CZ2	2.50	0.47
6:E:45:ILE:CD1	6:E:50:LEU:HD23	2.45	0.47
6:E:47:TYR:O	6:E:48:ARG:C	2.57	0.47
6:E:203:GLU:C	6:E:205:GLU:H	2.23	0.47
6:E:228:LEU:C	6:E:228:LEU:CD2	2.86	0.47
6:E:556:VAL:C	6:E:607:TYR:CD1	2.93	0.47
8:G:268:MET:CE	8:G:272:LYS:HD3	2.45	0.47
8:G:388:TYR:O	8:G:389:ILE:HG12	2.14	0.47
9:S:4:GLU:OE1	9:S:27:VAL:HG23	2.15	0.47
9:S:225:THR:HG22	9:U:123:VAL:O	2.08	0.47
9:T:64:LEU:HA	9:T:67:ALA:HB3	1.97	0.47
9:T:114:ARG:N	9:T:118:GLU:OE2	2.48	0.47
9:T:115:ASP:C	9:T:116:TYR:CG	2.93	0.47
9:T:170:LEU:HB3	9:T:229:PHE:CZ	2.50	0.47
9:V:216:THR:O	9:V:217:LEU:HB3	2.15	0.47
10:X:46:PHE:CG	10:X:46:PHE:O	2.68	0.47
10:X:176:HIS:NE2	10:X:205:ILE:HG23	2.30	0.47
1:1:18:DA:C6	1:1:19:DA:C2	3.03	0.46
3:A:46:LEU:CD2	3:A:47:ILE:HG12	2.45	0.46
3:A:264:PRO:HD2	3:A:265:LYS:HG3	1.97	0.46
3:A:423:HIS:CD2	3:A:425:SER:CB	2.90	0.46
3:A:490:VAL:HG23	3:A:526:TYR:HB2	1.97	0.46
3:A:516:PHE:CE1	4:B:157:LEU:HA	2.49	0.46
3:A:531:PRO:O	3:A:532:VAL:CG2	2.63	0.46
3:A:542:ILE:HD13	3:A:545:LEU:CD2	2.44	0.46
3:A:571:ARG:HH11	3:A:676:GLU:HG3	1.79	0.46
3:A:749:ARG:NE	3:A:750:GLN:H	2.12	0.46
3:A:765:ALA:HA	3:A:808:ASN:HA	1.97	0.46
3:A:895:VAL:O	3:A:896:GLY:C	2.53	0.46
3:A:903:LEU:HA	3:A:903:LEU:HD12	1.34	0.46
3:A:1028:PHE:CE1	6:E:438:ARG:CZ	2.96	0.46
4:B:34:ASP:HA	4:B:37:LYS:HB2	1.97	0.46
4:B:92:GLN:HE21	4:B:96:ASP:CG	2.23	0.46
4:B:108:GLU:O	4:B:110:VAL:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:136:GLN:O	4:B:137:VAL:C	2.55	0.46
4:B:159:ILE:HG22	4:B:160:LYS:N	2.31	0.46
4:B:233:ILE:CG2	4:B:238:ARG:CD	2.86	0.46
4:B:260:ARG:C	4:B:262:THR:N	2.69	0.46
4:B:281:VAL:C	4:B:282:VAL:HG13	2.39	0.46
4:B:285:PRO:HG2	4:B:1143:VAL:CG2	2.46	0.46
4:B:318:ILE:CG2	6:E:438:ARG:HH12	2.28	0.46
4:B:371:ARG:N	4:B:375:ASP:OD2	2.49	0.46
4:B:461:GLU:OE1	4:B:474:ALA:N	2.48	0.46
4:B:480:ILE:HD13	4:B:480:ILE:HA	1.77	0.46
4:B:609:VAL:HA	4:B:625:GLN:C	2.35	0.46
4:B:616:LYS:HB3	4:B:620:GLY:C	2.40	0.46
4:B:681:LEU:HD23	4:B:681:LEU:H	1.80	0.46
4:B:1225:ILE:HG21	4:B:1225:ILE:HD13	1.60	0.46
5:C:36:VAL:O	5:C:39:ALA:HB3	2.15	0.46
5:C:40:LEU:HA	5:C:43:VAL:CG1	2.45	0.46
5:C:57:ARG:HG2	5:C:57:ARG:HH11	1.79	0.46
5:C:173:VAL:N	5:C:174:ARG:HH21	2.14	0.46
5:D:51:THR:HA	5:D:144:ARG:CA	2.29	0.46
5:D:65:PHE:N	5:D:65:PHE:CD1	2.78	0.46
5:D:109:ALA:HB2	5:D:125:GLN:HB2	1.97	0.46
5:D:126:TYR:CG	5:D:127:VAL:N	2.79	0.46
6:E:111:PRO:HB2	6:E:194:LEU:HD23	1.94	0.46
6:E:131:MET:CE	6:E:139:ILE:CD1	2.70	0.46
6:E:158:TYR:CZ	6:E:159:LYS:CD	2.98	0.46
6:E:252:ILE:CG2	6:E:256:LEU:HD11	2.40	0.46
6:E:286:LEU:HD23	6:E:286:LEU:C	2.40	0.46
6:E:289:LEU:HD23	6:E:289:LEU:HA	1.32	0.46
6:E:396:GLY:O	6:E:397:MET:C	2.57	0.46
6:E:482:GLU:O	6:E:485:ALA:CB	2.62	0.46
6:E:497:ILE:CD1	6:E:498:LEU:HD22	2.45	0.46
7:F:16:HIS:O	7:F:19:GLU:HG2	2.15	0.46
8:G:230:ARG:C	8:G:231:LEU:HG	2.37	0.46
8:G:253:MET:HE3	8:G:258:THR:HG23	1.97	0.46
8:G:378:HIS:HE2	10:X:57:VAL:CG2	2.28	0.46
9:S:64:LEU:HB3	9:S:68:ARG:CD	2.45	0.46
9:T:196:PHE:HB3	9:T:203:GLN:CB	2.45	0.46
9:T:231:GLY:O	9:T:235:GLN:N	2.48	0.46
9:U:90:PRO:HD2	9:U:120:GLN:HE22	1.78	0.46
9:U:142:LEU:CD1	9:U:293:PHE:CD2	2.90	0.46
9:U:191:TYR:CD2	9:U:239:ILE:HD11	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:196:PHE:HA	9:U:229:PHE:HD1	1.79	0.46
9:V:93:CYS:O	9:V:94:ILE:CG1	2.63	0.46
9:V:101:CYS:HB3	9:V:249:GLU:CD	2.40	0.46
9:V:210:PHE:O	9:V:215:ALA:N	2.47	0.46
9:V:230:ARG:H	9:V:233:VAL:HB	1.80	0.46
10:Y:161:GLY:HA3	10:Y:171:ASP:OD1	2.14	0.46
10:Y:197:LEU:HD23	10:Y:200:LYS:HG3	1.96	0.46
2:2:97:DG:O5'	9:S:155:ARG:CG	2.64	0.46
2:2:103:DG:H2'	2:2:104:DC:C6	2.50	0.46
3:A:121:LEU:HA	3:A:128:PHE:CD1	2.51	0.46
3:A:309:TYR:CD2	3:A:311:ILE:CD1	2.98	0.46
3:A:374:ILE:HG13	3:A:375:LYS:H	1.79	0.46
3:A:443:LEU:HA	3:A:443:LEU:HD12	1.40	0.46
3:A:452:ARG:O	3:A:459:LEU:HA	2.15	0.46
3:A:535:VAL:HG23	3:A:536:SER:N	2.30	0.46
3:A:581:GLN:O	3:A:582:GLY:C	2.55	0.46
3:A:606:ILE:C	3:A:609:ARG:HH11	2.23	0.46
3:A:699:GLU:HB2	3:A:700:ASP:CB	2.46	0.46
3:A:702:ILE:HG23	3:A:702:ILE:HD12	1.26	0.46
3:A:846:ILE:HG22	3:A:981:LYS:HD2	1.96	0.46
3:A:898:VAL:HG23	3:A:899:PHE:H	1.77	0.46
4:B:41:PHE:C	4:B:43:TYR:N	2.63	0.46
4:B:60:PRO:C	4:B:62:LYS:N	2.65	0.46
4:B:134:ILE:CB	4:B:348:GLN:HB3	2.45	0.46
4:B:157:LEU:CD2	4:B:170:THR:HB	2.46	0.46
4:B:247:ASP:OD1	4:B:258:ALA:O	2.33	0.46
4:B:378:PHE:O	4:B:378:PHE:CG	2.69	0.46
4:B:443:LYS:HB2	4:B:997:LEU:N	2.31	0.46
4:B:454:LYS:CG	4:B:455:PHE:H	2.13	0.46
4:B:587:VAL:HA	4:B:795:LEU:O	2.15	0.46
4:B:726:GLN:HE22	4:B:739:ARG:NH1	2.14	0.46
4:B:881:GLY:O	4:B:901:ARG:HB2	2.15	0.46
4:B:1171:ARG:O	4:B:1174:GLU:CD	2.58	0.46
5:C:91:SER:C	5:C:92:SER:HG	2.23	0.46
5:D:143:GLU:N	5:D:143:GLU:OE1	2.48	0.46
5:D:220:LEU:HD12	5:D:221:PHE:N	2.29	0.46
6:E:52:PRO:HD2	6:E:60:GLU:HB3	1.97	0.46
6:E:59:CYS:HB2	6:E:63:PHE:CD2	2.50	0.46
6:E:164:GLU:O	6:E:168:LEU:CD1	2.63	0.46
6:E:369:LYS:O	6:E:457:HIS:HB2	2.14	0.46
6:E:575:LYS:O	6:E:586:VAL:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:85:TYR:HA	8:G:88:GLU:OE2	2.15	0.46
8:G:233:VAL:CB	8:G:236:TYR:CZ	2.98	0.46
9:S:175:HIS:CE1	9:S:239:ILE:HG21	2.49	0.46
9:T:141:ASP:HB3	9:T:284:ARG:O	2.15	0.46
9:T:156:ASP:OD1	9:T:291:LYS:CA	2.63	0.46
9:T:234:ARG:CB	9:V:105:LEU:HD23	2.45	0.46
9:U:94:ILE:CG1	9:U:290:ILE:HG23	2.46	0.46
9:U:153:THR:HG21	9:U:282:GLN:NE2	2.30	0.46
9:V:66:ARG:O	9:V:70:ILE:N	2.40	0.46
9:V:206:VAL:CA	9:V:208:GLU:O	2.63	0.46
10:X:56:ARG:HE	10:X:66:VAL:HG21	1.80	0.46
1:1:44:DG:C2	2:2:83:DG:C2	3.04	0.46
3:A:30:LEU:CD2	3:A:400:ARG:NH1	2.78	0.46
3:A:146:GLY:C	3:A:148:TYR:CE2	2.94	0.46
3:A:271:ARG:HA	3:A:290:ARG:HG3	1.98	0.46
3:A:298:LEU:HA	3:A:298:LEU:HD23	1.39	0.46
3:A:466:VAL:HG23	3:A:525:ASP:O	2.15	0.46
3:A:544:PHE:C	3:A:546:GLU:N	2.71	0.46
3:A:552:ARG:HH21	3:A:894:ASN:ND2	2.14	0.46
3:A:608:VAL:HG23	3:A:616:THR:CA	2.41	0.46
3:A:675:THR:CB	3:A:678:GLY:H	2.26	0.46
3:A:681:ALA:O	3:A:682:LEU:HD22	2.16	0.46
3:A:913:ARG:HH21	3:A:915:LYS:CD	2.24	0.46
3:A:1044:ASP:OD1	3:A:1045:MET:C	2.57	0.46
4:B:68:ALA:O	4:B:419:LYS:CG	2.63	0.46
4:B:92:GLN:NE2	4:B:377:LEU:HA	2.30	0.46
4:B:223:ARG:HG3	4:B:279:GLU:CG	2.45	0.46
4:B:250:HIS:NE2	4:B:255:GLU:C	2.74	0.46
4:B:394:SER:CB	4:B:395:GLU:HG3	2.45	0.46
4:B:417:GLN:O	4:B:418:VAL:C	2.58	0.46
4:B:507:ASN:CG	4:B:852:SER:OG	2.56	0.46
5:C:53:VAL:CG1	5:C:82:MET:CE	2.87	0.46
5:C:56:VAL:O	5:C:162:ASP:O	2.34	0.46
5:C:72:ARG:C	5:C:73:GLU:OE1	2.59	0.46
5:C:108:THR:OG1	5:C:111:HIS:N	2.41	0.46
5:D:84:GLU:OE1	5:D:85:VAL:HG13	2.15	0.46
5:D:156:GLU:CA	5:D:163:PHE:CE1	2.85	0.46
6:E:43:GLU:HG3	6:E:44:THR:N	2.29	0.46
6:E:287:ALA:CA	6:E:290:GLN:HG2	2.46	0.46
6:E:362:ILE:HD12	6:E:454:ILE:CG2	2.45	0.46
6:E:389:ILE:HA	6:E:392:LEU:CD2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:413:PRO:HG2	6:E:414:SER:N	2.30	0.46
6:E:551:ASP:CG	6:E:553:HIS:H	2.23	0.46
8:G:112:GLU:HA	8:G:115:ARG:CZ	2.45	0.46
8:G:359:ASN:C	8:G:361:THR:N	2.71	0.46
9:S:94:ILE:O	9:S:123:VAL:HG22	2.15	0.46
9:S:98:HIS:NE2	9:S:229:PHE:CZ	2.68	0.46
9:T:2:ARG:NH2	9:T:39:LEU:HD22	2.30	0.46
9:T:62:ARG:O	9:T:65:PRO:HD2	2.16	0.46
9:T:105:LEU:CD1	9:T:300:ASN:OD1	2.50	0.46
9:U:284:ARG:HE	9:U:290:ILE:HG21	1.77	0.46
9:V:176:PRO:C	9:V:178:ALA:N	2.73	0.46
10:X:50:GLY:H	10:X:71:GLU:N	2.14	0.46
10:X:114:GLU:OE1	10:X:115:ASN:ND2	2.49	0.46
10:X:145:MET:HA	10:X:148:ARG:HG3	1.96	0.46
10:Y:52:VAL:CG2	10:Y:94:ALA:HA	2.44	0.46
10:Y:55:SER:HB3	10:Y:63:GLU:HG2	1.97	0.46
10:Y:70:ARG:HH12	10:Y:155:ILE:HG22	1.81	0.46
1:1:46:DA:H2"	1:1:47:DT:C5	2.49	0.46
2:2:92:DA:H61	9:T:34:ARG:NE	1.97	0.46
3:A:122:MET:SD	3:A:126:GLY:HA2	2.56	0.46
3:A:163:ALA:HB2	3:A:304:LEU:HG	1.95	0.46
3:A:258:ASP:O	3:A:262:PHE:N	2.48	0.46
3:A:420:ARG:NH2	3:A:441:ALA:C	2.74	0.46
3:A:536:SER:O	3:A:561:ARG:NH1	2.37	0.46
3:A:584:ARG:CD	3:A:591:VAL:CG1	2.92	0.46
3:A:662:ARG:NH2	3:A:663:VAL:O	2.46	0.46
3:A:749:ARG:HH21	3:A:750:GLN:CG	2.28	0.46
3:A:986:VAL:O	3:A:990:ILE:HB	2.16	0.46
3:A:994:SER:HB2	6:E:356:TYR:CE1	2.51	0.46
3:A:1045:MET:HG3	3:A:1048:ARG:NH1	2.31	0.46
4:B:72:GLU:C	4:B:72:GLU:OE1	2.58	0.46
4:B:138:ARG:O	4:B:142:GLY:N	2.47	0.46
4:B:178:GLY:O	4:B:181:LYS:HB3	2.15	0.46
4:B:573:ASN:H	4:B:590:GLU:N	2.12	0.46
4:B:1224:ALA:O	4:B:1226:GLU:N	2.49	0.46
5:D:72:ARG:C	5:D:73:GLU:OE1	2.59	0.46
5:D:179:SER:O	5:D:194:LEU:HG	2.15	0.46
6:E:45:ILE:HG22	6:E:52:PRO:CA	2.45	0.46
6:E:158:TYR:CE2	6:E:159:LYS:HE3	2.51	0.46
6:E:556:VAL:C	6:E:607:TYR:HD1	2.24	0.46
6:E:579:ASN:HD21	6:E:594:ARG:HE	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:587:LEU:CA	6:E:592:ARG:HH11	2.21	0.46
8:G:172:LYS:HE2	8:G:215:ARG:CZ	2.45	0.46
8:G:244:LYS:O	8:G:245:THR:C	2.55	0.46
9:S:49:HIS:ND1	9:S:52:ASN:HB2	2.31	0.46
9:S:93:CYS:CB	9:S:124:THR:HG22	2.44	0.46
9:S:184:PRO:HA	9:S:264:SER:OG	2.15	0.46
9:S:185:TRP:CD2	9:S:209:LYS:O	2.69	0.46
9:S:288:PRO:HB2	9:S:289:PRO:HD3	1.97	0.46
9:T:164:ASP:OD1	9:T:275:ARG:HG2	2.16	0.46
9:T:250:ALA:O	9:T:253:ASP:HB2	2.15	0.46
9:T:251:ARG:HG3	9:T:258:VAL:CG2	2.45	0.46
9:U:175:HIS:O	9:U:176:PRO:C	2.57	0.46
9:V:10:LEU:HA	9:V:60:GLY:HA3	1.96	0.46
9:V:190:ARG:C	9:V:191:TYR:CG	2.90	0.46
9:V:206:VAL:HA	9:V:209:LYS:CG	2.45	0.46
9:V:209:LYS:HE2	9:V:241:LEU:CD1	2.44	0.46
10:X:32:LYS:C	10:X:93:VAL:HG11	2.40	0.46
10:X:47:LEU:O	10:X:74:VAL:HA	2.16	0.46
3:A:67:PHE:CE2	3:A:340:LEU:HD21	2.51	0.46
3:A:141:ILE:HG22	3:A:324:ARG:H	1.81	0.46
3:A:144:SER:HB3	3:A:324:ARG:HE	1.81	0.46
3:A:156:ASN:CG	3:A:157:GLY:H	2.16	0.46
3:A:274:ARG:O	3:A:276:LYS:N	2.49	0.46
3:A:568:LYS:HZ2	3:A:713:ILE:CG1	2.13	0.46
3:A:598:VAL:HA	3:A:615:PRO:CG	2.45	0.46
3:A:873:TYR:CB	3:A:878:SER:O	2.60	0.46
3:A:874:LEU:HG	3:A:878:SER:O	2.15	0.46
3:A:929:ARG:HB3	3:A:929:ARG:CZ	2.39	0.46
3:A:998:TYR:CD1	3:A:998:TYR:N	2.80	0.46
3:A:1016:ARG:NH2	6:E:353:ARG:HB3	2.30	0.46
3:A:1017:PHE:CD2	6:E:352:LYS:O	2.68	0.46
3:A:1017:PHE:CE2	3:A:1019:GLU:N	2.83	0.46
3:A:1039:THR:HG1	3:A:1040:VAL:H	1.57	0.46
3:A:1047:GLY:O	3:A:1049:ASN:N	2.48	0.46
3:A:1056:VAL:HG12	3:A:1056:VAL:O	2.15	0.46
4:B:8:VAL:HG21	6:E:517:ALA:C	2.40	0.46
4:B:277:VAL:HG12	4:B:278:ALA:N	2.30	0.46
4:B:278:ALA:C	4:B:279:GLU:OE1	2.58	0.46
4:B:318:ILE:HD11	6:E:438:ARG:NH1	2.19	0.46
4:B:520:GLY:CA	4:B:539:ILE:HD13	2.46	0.46
4:B:676:GLN:HE22	4:B:681:LEU:N	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:938:GLY:HA3	4:B:969:GLY:HA3	1.97	0.46
4:B:1238:ASN:OD1	4:B:1246:PRO:HD3	2.16	0.46
4:B:1246:PRO:O	4:B:1247:ALA:CB	2.63	0.46
6:E:78:ARG:CG	8:G:347:ARG:HG2	2.46	0.46
6:E:95:GLU:N	6:E:95:GLU:CD	2.68	0.46
6:E:140:VAL:HG11	6:E:307:GLN:HG2	1.97	0.46
6:E:145:TYR:CZ	6:E:167:TRP:CD1	3.03	0.46
6:E:146:VAL:HA	6:E:160:GLN:O	2.16	0.46
6:E:207:GLU:HA	6:E:210:ARG:HG3	1.97	0.46
6:E:567:ASP:HB3	6:E:590:TYR:CE2	2.51	0.46
6:E:583:SER:H	6:E:595:GLU:C	2.21	0.46
8:G:291:GLY:O	8:G:293:GLU:N	2.48	0.46
8:G:361:THR:OG1	8:G:362:ARG:N	2.47	0.46
9:S:104:TYR:CD1	9:S:245:SER:HB3	2.51	0.46
9:T:211:GLU:CA	9:T:214:GLU:H	2.29	0.46
9:U:103:SER:CB	9:U:104:TYR:CD2	2.98	0.46
9:U:108:VAL:CB	9:U:301:ILE:HG23	2.45	0.46
9:U:132:LEU:HD12	9:U:148:ASN:ND2	2.31	0.46
9:V:3:LEU:HB3	9:V:71:CYS:SG	2.55	0.46
9:V:195:VAL:HG11	9:V:207:GLN:HA	1.97	0.46
9:V:208:GLU:C	9:V:210:PHE:H	2.23	0.46
10:X:170:ILE:HB	10:X:208:LYS:O	2.15	0.46
10:Y:33:THR:HA	10:Y:91:HIS:CE1	2.51	0.46
2:2:48:DT:C7	8:G:366:ARG:NH2	2.79	0.46
3:A:30:LEU:HD13	3:A:400:ARG:CZ	2.45	0.46
3:A:45:GLY:O	3:A:49:GLU:OE1	2.33	0.46
3:A:162:SER:CA	3:A:176:GLU:HA	2.46	0.46
3:A:296:ASP:O	3:A:299:ALA:HB3	2.14	0.46
3:A:332:LEU:C	3:A:335:GLN:HE22	2.23	0.46
3:A:346:ILE:O	3:A:347:ILE:C	2.58	0.46
3:A:381:SER:O	3:A:383:LEU:N	2.48	0.46
3:A:402:LEU:HD21	3:A:447:LEU:HD12	1.91	0.46
3:A:429:ARG:HD3	3:A:483:ASP:CA	2.34	0.46
3:A:527:VAL:O	3:A:528:ALA:C	2.58	0.46
3:A:566:LEU:HD11	3:A:715:THR:N	2.24	0.46
3:A:602:ASP:OD1	5:C:131:ALA:CB	2.60	0.46
3:A:768:ILE:HD13	3:A:768:ILE:HA	1.52	0.46
3:A:899:PHE:HA	3:A:902:LEU:HD12	1.98	0.46
4:B:9:ASP:OD1	4:B:10:LYS:C	2.58	0.46
4:B:34:ASP:OD2	6:E:370:ILE:CD1	2.63	0.46
4:B:369:ARG:NH2	4:B:438:THR:HG21	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:586:GLN:HB2	4:B:815:ASP:OD1	2.16	0.46
4:B:664:ILE:HG22	4:B:665:PHE:N	2.29	0.46
4:B:1007:ILE:HG23	4:B:1007:ILE:O	2.15	0.46
4:B:1121:LEU:O	4:B:1125:VAL:HG23	2.15	0.46
4:B:1142:GLU:O	4:B:1143:VAL:C	2.59	0.46
4:B:1198:THR:O	4:B:1202:LEU:HB2	2.15	0.46
4:B:1231:TRP:CD2	6:E:11:TYR:HB2	2.50	0.46
5:C:19:HIS:O	5:C:20:TYR:C	2.57	0.46
5:C:50:GLY:HA3	5:C:170:PHE:HB3	1.97	0.46
5:C:83:LYS:O	5:C:85:VAL:N	2.49	0.46
5:C:169:ILE:O	5:C:170:PHE:C	2.59	0.46
5:C:211:SER:O	5:C:214:ALA:HB3	2.15	0.46
5:C:217:LEU:HB2	5:C:221:PHE:HB2	1.97	0.46
6:E:279:VAL:CG1	6:E:280:ILE:N	2.75	0.46
6:E:304:ARG:HH12	8:G:84:LEU:HD11	1.80	0.46
6:E:346:ARG:HG3	6:E:350:LEU:CG	2.44	0.46
6:E:586:VAL:O	6:E:592:ARG:HD3	2.16	0.46
7:F:22:ILE:H	7:F:22:ILE:HG13	1.47	0.46
8:G:110:LEU:CD1	8:G:111:LEU:N	2.76	0.46
8:G:355:GLY:HA2	8:G:361:THR:HG22	1.96	0.46
9:S:1:MET:HE1	9:S:63:LEU:CD1	2.43	0.46
9:S:2:ARG:O	9:S:6:LEU:HB2	2.16	0.46
9:S:105:LEU:HB3	9:S:301:ILE:HG12	1.98	0.46
9:S:147:ASN:HB2	9:S:277:VAL:CG2	2.45	0.46
9:S:155:ARG:HD3	9:S:158:VAL:HG21	1.98	0.46
9:S:188:LEU:HB3	9:S:193:GLN:HB2	1.98	0.46
9:S:289:PRO:O	9:S:293:PHE:HB3	2.15	0.46
9:T:47:LEU:O	9:T:49:HIS:N	2.48	0.46
9:T:121:LEU:HB2	9:V:221:LEU:HD23	1.98	0.46
9:T:175:HIS:CD2	9:T:177:LEU:HD22	2.50	0.46
9:T:225:THR:CG2	9:T:228:ALA:H	2.28	0.46
9:T:279:VAL:HG22	9:T:279:VAL:O	2.16	0.46
9:U:11:ALA:HA	9:U:14:GLU:HB3	1.98	0.46
9:U:45:LEU:HD12	9:U:63:LEU:N	2.29	0.46
9:U:138:GLY:CA	9:U:141:ASP:CG	2.88	0.46
9:U:197:LYS:HB2	9:U:224:ASN:CB	2.45	0.46
9:V:160:GLU:OE2	9:V:294:TRP:CG	2.68	0.46
10:Y:46:PHE:HB3	10:Y:101:LEU:O	2.16	0.46
10:Y:56:ARG:HE	10:Y:66:VAL:HG21	1.80	0.46
10:Y:211:THR:HG1	10:Y:212:VAL:C	2.17	0.46
1:1:19:DA:H2"	1:1:20:DA:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:63:DC:H2"	2:2:64:DA:C8	2.50	0.46
3:A:32:GLU:CB	3:A:35:ARG:HB3	2.39	0.46
3:A:65:LEU:HB2	3:A:351:MET:HE2	1.98	0.46
3:A:309:TYR:O	3:A:309:TYR:CG	2.68	0.46
3:A:471:VAL:C	3:A:473:PHE:H	2.22	0.46
3:A:488:LEU:HD13	3:A:526:TYR:HE2	1.80	0.46
3:A:576:THR:HA	3:A:916:ILE:N	2.31	0.46
3:A:579:GLU:CD	3:A:579:GLU:H	2.20	0.46
3:A:607:ARG:NH1	3:A:607:ARG:CB	2.72	0.46
3:A:642:TYR:CZ	5:C:76:LEU:HD22	2.51	0.46
3:A:698:TYR:C	3:A:699:GLU:OE1	2.57	0.46
3:A:904:GLY:O	3:A:906:ALA:N	2.46	0.46
3:A:904:GLY:C	3:A:906:ALA:N	2.65	0.46
3:A:939:ALA:O	3:A:942:GLU:HG2	2.15	0.46
3:A:963:ARG:HH21	4:B:42:ARG:HB3	1.80	0.46
3:A:968:PHE:CE1	4:B:45:THR:O	2.69	0.46
3:A:1016:ARG:HG3	3:A:1017:PHE:N	2.30	0.46
3:A:1034:LEU:CD2	3:A:1034:LEU:H	2.28	0.46
3:A:1070:PHE:HA	6:E:349:LEU:HD11	1.96	0.46
4:B:25:GLY:O	4:B:26:THR:C	2.57	0.46
4:B:28:ARG:HH12	7:F:20:ASP:CB	2.27	0.46
4:B:42:ARG:O	4:B:43:TYR:C	2.54	0.46
4:B:97:THR:N	4:B:422:GLN:CD	2.74	0.46
4:B:160:LYS:HB2	4:B:171:GLU:OE1	2.16	0.46
4:B:206:ASP:C	4:B:208:ILE:HD11	2.41	0.46
4:B:218:ARG:NH2	4:B:289:GLU:HB3	2.31	0.46
4:B:245:GLY:C	4:B:260:ARG:NH1	2.74	0.46
4:B:591:LEU:HB3	4:B:792:ARG:NH2	2.31	0.46
4:B:695:ASP:O	4:B:696:ASP:HB2	2.15	0.46
4:B:843:ASP:O	4:B:853:THR:HG21	2.16	0.46
4:B:1207:PHE:CE1	6:E:14:ILE:HG12	2.51	0.46
4:B:1224:ALA:HA	6:E:14:ILE:O	2.16	0.46
5:C:43:VAL:O	5:C:44:LEU:C	2.54	0.46
5:C:51:THR:HG21	5:C:88:LYS:HG3	1.96	0.46
5:D:96:ILE:HG21	5:D:139:GLU:HB3	1.98	0.46
6:E:86:CYS:O	6:E:89:CYS:O	2.34	0.46
6:E:582:GLY:O	6:E:583:SER:HB3	2.16	0.46
7:F:17:ARG:HG2	7:F:17:ARG:O	2.15	0.46
7:F:22:ILE:HA	7:F:31:ILE:CD1	2.46	0.46
7:F:37:ASN:HA	7:F:40:LYS:CD	2.45	0.46
7:F:52:ASP:O	7:F:60:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:178:LEU:HD21	8:G:225:GLN:CG	2.46	0.46
8:G:300:ASP:H	8:G:301:PHE:HD2	1.64	0.46
9:S:15:THR:HB	9:S:20:LYS:HE2	1.98	0.46
9:S:49:HIS:O	9:S:50:ARG:C	2.59	0.46
9:S:108:VAL:O	9:S:293:PHE:HE1	1.99	0.46
9:T:156:ASP:CB	9:T:291:LYS:HG3	2.18	0.46
9:T:163:TYR:CD2	9:T:163:TYR:C	2.93	0.46
9:T:284:ARG:HD3	9:T:284:ARG:HA	1.29	0.46
9:U:62:ARG:O	9:U:65:PRO:HD2	2.16	0.46
9:U:131:ALA:O	9:U:132:LEU:C	2.57	0.46
9:V:191:TYR:CD2	9:V:239:ILE:CD1	2.98	0.46
10:X:47:LEU:HD22	10:X:69:LEU:CD2	2.46	0.46
10:X:58:TYR:CD1	10:X:89:PHE:HD2	2.34	0.46
10:Y:42:GLU:HG2	10:Y:88:ARG:HH12	1.81	0.46
10:Y:57:VAL:H	10:Y:90:TYR:HA	1.80	0.46
10:Y:78:LEU:HD23	10:Y:88:ARG:CG	2.29	0.46
2:2:80:DT:H2'	9:S:34:ARG:HG2	1.97	0.46
2:2:90:DG:H2"	9:T:28:THR:HG23	1.98	0.46
3:A:63:LEU:HD12	3:A:102:LEU:O	2.14	0.46
3:A:166:ILE:HD11	3:A:172:TRP:CD2	2.50	0.46
3:A:294:SER:O	3:A:297:ILE:N	2.49	0.46
3:A:328:VAL:H	3:A:328:VAL:HG13	1.51	0.46
3:A:417:PHE:O	3:A:418:ALA:C	2.57	0.46
3:A:464:ARG:HA	3:A:478:ALA:CB	2.46	0.46
3:A:573:LEU:HD23	3:A:574:VAL:HB	1.97	0.46
3:A:703:LEU:O	3:A:883:VAL:HG22	2.16	0.46
3:A:789:ARG:O	3:A:794:GLU:O	2.33	0.46
3:A:986:VAL:HB	6:E:452:ARG:HB3	1.98	0.46
3:A:1009:LYS:O	3:A:1009:LYS:HG3	2.15	0.46
3:A:1031:ALA:O	3:A:1032:TYR:C	2.58	0.46
4:B:18:SER:C	4:B:22:THR:HG23	2.41	0.46
4:B:120:ASN:OD1	4:B:122:VAL:HG13	2.16	0.46
4:B:165:GLU:CD	4:B:166:GLY:H	2.24	0.46
4:B:199:ARG:HD3	4:B:1214:GLN:HG3	1.98	0.46
4:B:369:ARG:NH2	4:B:1000:GLU:HG2	2.31	0.46
4:B:510:LEU:HD22	4:B:877:LEU:C	2.41	0.46
4:B:654:VAL:HB	4:B:659:GLU:CG	2.43	0.46
4:B:884:VAL:HG12	4:B:887:VAL:HG21	1.96	0.46
4:B:1174:GLU:OE1	4:B:1174:GLU:CA	2.62	0.46
6:E:17:ALA:O	6:E:243:TRP:HB3	2.16	0.46
6:E:282:ARG:HD3	6:E:285:ARG:HH21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:499:SER:CB	6:E:501:ALA:HB3	2.45	0.46
6:E:523:GLU:HG3	6:E:555:TYR:CE2	2.50	0.46
8:G:226:SER:O	8:G:227:ARG:HG3	2.15	0.46
8:G:233:VAL:CG1	8:G:236:TYR:CZ	2.95	0.46
9:S:136:LYS:HA	9:S:153:THR:HG23	1.97	0.46
9:S:142:LEU:HD21	9:S:278:MET:SD	2.55	0.46
9:S:175:HIS:CD2	9:S:239:ILE:HG21	2.51	0.46
9:T:100:LEU:CG	9:T:301:ILE:HD11	2.46	0.46
9:T:111:LYS:O	9:T:114:ARG:N	2.48	0.46
9:T:146:MET:SD	9:T:274:ARG:CD	3.02	0.46
10:X:118:LEU:CD2	10:X:121:LEU:HD12	2.45	0.46
10:X:131:LEU:O	10:X:134:GLU:HB3	2.15	0.46
10:Y:145:MET:O	10:Y:147:SER:N	2.48	0.46
3:A:143:ARG:HE	3:A:143:ARG:HB3	1.50	0.46
3:A:171:ALA:N	3:A:267:TYR:CE1	2.75	0.46
3:A:424:PRO:CG	3:A:514:GLN:HG3	2.44	0.46
3:A:747:ALA:O	3:A:749:ARG:CZ	2.63	0.46
3:A:822:ARG:NH1	8:G:274:ARG:HH22	2.13	0.46
3:A:882:ILE:HD12	3:A:882:ILE:N	2.31	0.46
4:B:20:ALA:O	4:B:24:TYR:CD1	2.67	0.46
4:B:102:SER:HA	4:B:105:LEU:HD22	1.98	0.46
4:B:353:MET:HE3	4:B:353:MET:HB2	1.79	0.46
4:B:416:GLN:HB3	4:B:422:GLN:HE21	1.80	0.46
4:B:458:VAL:HG23	4:B:459:VAL:N	2.30	0.46
4:B:621:TYR:CD2	4:B:773:ARG:CG	2.99	0.46
4:B:638:GLU:HA	4:B:683:GLU:CB	2.43	0.46
4:B:936:GLU:CD	4:B:937:SER:N	2.68	0.46
4:B:1032:ARG:HD3	4:B:1078:PRO:HG2	1.97	0.46
4:B:1212:SER:CB	6:E:346:ARG:HH21	2.29	0.46
5:C:53:VAL:HG11	5:C:82:MET:HE3	1.93	0.46
5:C:84:GLU:OE1	5:C:85:VAL:HG13	2.15	0.46
5:C:227:ILE:O	5:C:228:SER:C	2.59	0.46
5:D:58:ILE:HD12	5:D:138:MET:HG2	1.96	0.46
5:D:78:ILE:HG23	5:D:138:MET:CE	2.45	0.46
5:D:90:TYR:C	5:D:92:SER:N	2.73	0.46
5:D:98:ARG:HA	5:D:139:GLU:CG	2.34	0.46
5:D:181:GLU:CD	5:D:195:LEU:HD12	2.41	0.46
6:E:18:SER:HB2	6:E:243:TRP:CD2	2.51	0.46
6:E:94:THR:OG1	6:E:95:GLU:HG2	2.16	0.46
6:E:211:GLU:CD	6:E:211:GLU:C	2.84	0.46
6:E:551:ASP:C	6:E:553:HIS:N	2.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:30:ARG:O	7:F:33:VAL:N	2.48	0.46
8:G:116:VAL:O	8:G:117:ARG:C	2.59	0.46
8:G:347:ARG:O	8:G:348:MET:HB3	2.14	0.46
9:S:195:VAL:O	9:S:222:GLU:HB3	2.16	0.46
9:S:275:ARG:O	9:S:277:VAL:HG23	2.16	0.46
9:T:12:ILE:HD11	9:T:32:ILE:HG21	1.98	0.46
9:T:175:HIS:HE1	9:T:177:LEU:HB3	1.53	0.46
9:T:187:GLU:H	9:T:261:LEU:HD21	1.81	0.46
9:U:150:PHE:O	9:U:151:LEU:CD2	2.64	0.46
9:U:160:GLU:CB	9:U:298:ARG:HB3	2.45	0.46
9:V:166:PRO:HB2	9:V:168:GLU:CG	2.41	0.46
10:X:34:ILE:HG13	10:X:93:VAL:HG12	1.96	0.46
10:X:44:VAL:HG11	10:X:108:VAL:CG1	2.46	0.46
10:Y:193:LEU:HA	10:Y:196:ASP:HB3	1.98	0.46
1:1:37:DA:C2	1:1:38:DA:C2	3.04	0.46
1:1:101:DT:OP2	8:G:204:TYR:OH	2.34	0.46
3:A:35:ARG:O	3:A:36:SER:C	2.50	0.46
3:A:48:GLU:HB2	3:A:49:GLU:OE1	2.16	0.46
3:A:144:SER:HB3	3:A:324:ARG:CB	2.41	0.46
3:A:176:GLU:OE2	3:A:184:TRP:HD1	1.98	0.46
3:A:274:ARG:CZ	3:A:286:PRO:O	2.63	0.46
3:A:306:ASN:OD1	3:A:311:ILE:CG2	2.64	0.46
3:A:401:ARG:O	3:A:402:LEU:HB3	2.15	0.46
3:A:450:HIS:O	3:A:451:ALA:C	2.56	0.46
3:A:542:ILE:HD12	3:A:545:LEU:CD2	2.21	0.46
3:A:544:PHE:C	3:A:546:GLU:H	2.24	0.46
3:A:557:SER:HA	3:A:560:GLN:HE22	1.79	0.46
3:A:704:ILE:CD1	3:A:881:ASP:O	2.52	0.46
3:A:787:LEU:CA	3:A:791:ILE:HG12	2.45	0.46
3:A:914:PHE:O	3:A:915:LYS:C	2.59	0.46
4:B:53:VAL:CG1	4:B:54:ASP:N	2.62	0.46
4:B:135:SER:HA	4:B:138:ARG:HE	1.81	0.46
4:B:299:TYR:CE2	4:B:1139:LYS:HG3	2.51	0.46
4:B:366:ARG:HH11	4:B:370:THR:CG2	2.29	0.46
4:B:508:GLY:C	4:B:510:LEU:CD1	2.89	0.46
4:B:561:ASN:HB2	4:B:574:LEU:HD11	1.97	0.46
4:B:564:ILE:O	4:B:572:PHE:N	2.49	0.46
4:B:600:THR:C	4:B:633:PRO:HB3	2.41	0.46
4:B:632:ILE:HB	4:B:687:LYS:HE2	1.98	0.46
4:B:660:VAL:HA	4:B:665:PHE:CE1	2.51	0.46
4:B:973:ARG:NH1	4:B:974:VAL:O	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1051:VAL:CG1	4:B:1052:ILE:HG12	2.33	0.46
4:B:1123:ASN:O	4:B:1127:MET:N	2.48	0.46
4:B:1132:GLN:O	4:B:1134:ILE:HG13	2.16	0.46
5:C:26:GLU:CB	5:C:27:PRO:CD	2.94	0.46
5:C:217:LEU:HD23	5:C:217:LEU:N	2.09	0.46
5:D:66:ALA:O	5:D:74:ASP:OD1	2.33	0.46
5:D:80:MET:HG2	6:E:534:TYR:CZ	2.44	0.46
5:D:83:LYS:O	5:D:85:VAL:N	2.49	0.46
5:D:186:ASP:HA	5:D:190:PRO:HA	1.98	0.46
5:D:212:SER:C	5:D:214:ALA:N	2.66	0.46
6:E:61:ARG:HE	6:E:72:HIS:CG	2.34	0.46
6:E:71:CYS:N	6:E:76:TYR:HB2	2.25	0.46
6:E:138:GLN:HG3	6:E:143:ASN:H	1.81	0.46
6:E:154:GLU:C	6:E:155:THR:HG23	2.40	0.46
6:E:481:LEU:H	6:E:481:LEU:CD2	2.29	0.46
8:G:135:GLU:HB2	8:G:139:LEU:CD1	2.45	0.46
8:G:159:VAL:HA	8:G:191:LEU:HD21	1.98	0.46
8:G:192:ILE:O	8:G:196:GLU:CD	2.59	0.46
8:G:307:GLU:HB3	8:G:312:GLN:HB3	1.97	0.46
8:G:343:LEU:O	8:G:345:ASP:N	2.42	0.46
9:S:112:PHE:CZ	9:S:119:VAL:HB	2.51	0.46
9:S:112:PHE:H	9:S:293:PHE:HE1	1.64	0.46
9:S:272:LEU:O	9:S:272:LEU:CG	2.64	0.46
9:U:99:SER:CB	9:U:274:ARG:HH21	2.28	0.46
9:U:126:LEU:HA	9:U:130:ARG:CD	2.46	0.46
9:U:211:GLU:OE1	9:U:211:GLU:N	2.49	0.46
9:V:65:PRO:C	9:V:66:ARG:HG2	2.41	0.46
9:V:104:TYR:O	9:V:107:PRO:HD2	2.15	0.46
10:X:46:PHE:HA	10:X:74:VAL:HG23	1.97	0.46
10:X:123:LEU:HG	10:Y:123:LEU:HD21	1.98	0.46
10:X:128:SER:C	10:X:132:GLN:CG	2.89	0.46
2:2:98:DA:H2"	2:2:99:DA:O5'	2.16	0.45
3:A:35:ARG:HH21	3:A:39:ARG:HH11	1.59	0.45
3:A:437:GLU:OE1	3:A:555:MET:CG	2.64	0.45
3:A:516:PHE:CE1	4:B:157:LEU:N	2.62	0.45
3:A:522:GLU:CA	3:A:523:GLN:OE1	2.64	0.45
3:A:567:LEU:HD23	3:A:715:THR:CB	2.45	0.45
3:A:688:VAL:HG12	3:A:690:TYR:CD1	2.43	0.45
3:A:753:GLU:HA	3:A:753:GLU:OE1	2.15	0.45
3:A:860:GLY:O	3:A:861:ILE:HG23	2.15	0.45
4:B:93:LYS:HD2	4:B:375:ASP:HA	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:233:ILE:CG1	4:B:238:ARG:HD2	2.45	0.45
4:B:307:LYS:HG2	4:B:308:MET:N	2.31	0.45
4:B:412:ILE:HG12	4:B:424:LEU:CD1	2.46	0.45
4:B:701:ILE:C	4:B:703:ARG:N	2.74	0.45
4:B:900:LEU:HA	4:B:904:ASP:OD2	2.15	0.45
4:B:1086:GLY:O	4:B:1093:ILE:HD11	2.15	0.45
4:B:1111:SER:N	4:B:1114:LEU:HG	2.30	0.45
4:B:1235:LEU:HD12	4:B:1236:LYS:CA	2.46	0.45
5:C:64:GLU:CG	5:C:164:LEU:HD21	2.22	0.45
5:C:75:VAL:O	5:C:79:ILE:N	2.35	0.45
5:C:124:THR:O	5:C:125:GLN:C	2.60	0.45
5:C:184:ARG:HA	5:C:186:ASP:OD2	2.16	0.45
5:D:81:ARG:C	5:D:84:GLU:OE1	2.59	0.45
5:D:189:ILE:O	5:D:190:PRO:C	2.60	0.45
5:D:199:TRP:CD1	5:D:199:TRP:N	2.83	0.45
6:E:178:ASP:O	6:E:180:GLN:N	2.47	0.45
6:E:398:VAL:CG1	6:E:399:ASN:N	2.61	0.45
6:E:458:PRO:CG	6:E:459:LEU:N	2.75	0.45
6:E:485:ALA:HA	6:E:488:ARG:HB2	1.98	0.45
6:E:499:SER:HB3	6:E:506:ILE:HG13	1.98	0.45
6:E:554:ALA:O	6:E:609:THR:HA	2.16	0.45
6:E:560:PHE:HB3	6:E:606:ILE:CD1	2.46	0.45
7:F:33:VAL:HG23	7:F:34:GLN:N	2.31	0.45
8:G:326:LEU:HD22	8:G:338:ARG:CG	2.34	0.45
8:G:359:ASN:O	8:G:361:THR:N	2.49	0.45
8:G:376:LEU:HG	8:G:377:ARG:HG3	1.98	0.45
9:T:102:GLY:HA3	9:V:227:ASP:HB3	1.95	0.45
9:T:112:PHE:CD2	9:T:296:LEU:HD12	2.51	0.45
9:T:135:LEU:HB2	9:T:143:ALA:HB3	1.98	0.45
9:T:162:LEU:O	9:T:276:VAL:CG2	2.64	0.45
9:T:170:LEU:HD11	9:T:229:PHE:O	2.16	0.45
9:T:170:LEU:HB2	9:T:233:VAL:HG22	1.97	0.45
9:T:184:PRO:HG2	9:T:187:GLU:OE1	2.16	0.45
9:T:190:ARG:HA	9:T:216:THR:H	1.80	0.45
9:T:202:MET:SD	9:T:205:LEU:HD11	2.56	0.45
9:U:5:GLN:O	9:U:9:PHE:HB2	2.16	0.45
9:U:64:LEU:HA	9:U:67:ALA:HB3	1.97	0.45
9:U:121:LEU:CD2	9:U:123:VAL:HG12	2.46	0.45
9:U:202:MET:C	9:U:274:ARG:HH12	2.21	0.45
9:U:204:ARG:HD2	9:U:208:GLU:OE2	2.16	0.45
9:U:278:MET:HE3	9:U:293:PHE:C	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:288:PRO:HA	9:U:292:HIS:H	1.81	0.45
9:V:126:LEU:O	9:V:201:GLY:N	2.47	0.45
9:V:184:PRO:HB3	9:V:268:GLU:OE1	2.16	0.45
10:Y:58:TYR:CD1	10:Y:89:PHE:HD2	2.34	0.45
3:A:31:ILE:CD1	3:A:399:LYS:HG3	2.46	0.45
3:A:736:ILE:HG21	3:A:834:MET:CE	2.46	0.45
3:A:856:HIS:H	3:A:858:ASN:HD22	1.64	0.45
3:A:982:LEU:HD23	3:A:982:LEU:HA	1.08	0.45
3:A:1048:ARG:O	3:A:1049:ASN:C	2.57	0.45
3:A:1053:ASN:HD21	8:G:313:VAL:HG12	1.81	0.45
4:B:3:PHE:HE1	4:B:5:ASN:CB	2.24	0.45
4:B:80:TYR:CB	4:B:90:ARG:HE	2.29	0.45
4:B:110:VAL:CG1	4:B:350:ARG:HG2	2.46	0.45
4:B:207:VAL:O	4:B:207:VAL:HG23	2.16	0.45
4:B:571:VAL:HG12	4:B:571:VAL:O	2.16	0.45
4:B:585:GLY:O	4:B:587:VAL:HG22	2.16	0.45
4:B:603:PHE:N	4:B:632:ILE:C	2.74	0.45
4:B:916:VAL:HG13	4:B:920:ASP:CG	2.41	0.45
4:B:1046:ALA:C	4:B:1047:ILE:HG12	2.40	0.45
4:B:1082:PRO:CB	4:B:1086:GLY:H	2.30	0.45
4:B:1109:CYS:CA	4:B:1112:HIS:CB	2.94	0.45
4:B:1178:GLU:C	4:B:1181:ALA:H	2.24	0.45
5:C:44:LEU:O	5:C:45:LEU:HD23	2.15	0.45
5:C:73:GLU:HB2	5:C:77:GLU:HG3	1.99	0.45
5:C:182:GLU:C	5:C:183:VAL:HG23	2.41	0.45
5:D:155:ARG:C	5:D:157:GLU:N	2.73	0.45
5:D:194:LEU:HD22	5:D:196:LEU:CD2	2.34	0.45
6:E:45:ILE:HG22	6:E:52:PRO:HA	1.97	0.45
6:E:54:MET:CA	6:E:55:ASP:O	2.62	0.45
6:E:81:HIS:NE2	6:E:84:ILE:HD13	2.31	0.45
6:E:114:HIS:CD2	6:E:116:TRP:H	2.34	0.45
6:E:277:ARG:NH2	8:G:227:ARG:N	2.41	0.45
6:E:278:ARG:HD2	6:E:308:GLU:OE2	2.16	0.45
6:E:286:LEU:HD23	6:E:287:ALA:CA	2.46	0.45
6:E:286:LEU:C	6:E:288:ARG:N	2.69	0.45
6:E:297:ILE:HG21	8:G:163:LEU:HD12	1.98	0.45
6:E:449:VAL:CG1	6:E:450:GLU:N	2.79	0.45
6:E:579:ASN:OD1	6:E:594:ARG:NH2	2.49	0.45
7:F:56:LYS:H	7:F:59:LEU:HD21	1.81	0.45
8:G:135:GLU:HG3	8:G:139:LEU:HB2	1.98	0.45
8:G:270:ILE:O	8:G:273:LEU:CB	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:372:ALA:HA	8:G:375:LYS:CB	2.46	0.45
9:S:17:SER:O	9:S:19:GLN:CD	2.59	0.45
9:S:90:PRO:HB3	9:S:122:ARG:HH21	1.81	0.45
9:S:172:ALA:HA	9:S:258:VAL:CG2	2.46	0.45
9:S:188:LEU:CD1	9:S:210:PHE:CZ	2.99	0.45
9:S:220:ALA:O	9:U:117:PRO:HB3	2.16	0.45
9:T:204:ARG:O	9:T:208:GLU:HB2	2.15	0.45
9:T:209:LYS:C	9:T:212:ARG:H	2.24	0.45
9:T:211:GLU:HA	9:T:214:GLU:CA	2.46	0.45
9:T:255:THR:HG22	9:T:255:THR:O	2.16	0.45
9:U:135:LEU:HD13	9:U:140:VAL:HG11	1.87	0.45
9:U:169:LEU:HG	9:U:170:LEU:H	1.81	0.45
9:U:292:HIS:HA	9:U:295:GLN:HG2	1.98	0.45
9:V:2:ARG:H	9:V:5:GLN:HE21	1.63	0.45
9:V:144:ILE:CA	9:V:162:LEU:HB3	2.46	0.45
9:V:229:PHE:O	9:V:230:ARG:HB3	2.17	0.45
9:V:250:ALA:C	9:V:252:LEU:N	2.73	0.45
10:X:176:HIS:CE1	10:X:205:ILE:HG23	2.52	0.45
10:X:212:VAL:HG11	10:X:214:LYS:O	2.15	0.45
10:Y:114:GLU:OE1	10:Y:115:ASN:ND2	2.49	0.45
1:1:13:DG:C2'	1:1:14:DC:H5'	2.46	0.45
1:1:22:DG:C5	9:U:34:ARG:NH1	2.85	0.45
3:A:98:PRO:CB	3:A:111:GLU:OE2	2.65	0.45
3:A:148:TYR:C	3:A:164:SER:OG	2.58	0.45
3:A:198:LEU:HD21	3:A:298:LEU:HD21	1.99	0.45
3:A:228:GLN:HG3	3:A:232:GLU:OE1	2.16	0.45
3:A:265:LYS:HG3	3:A:265:LYS:H	1.34	0.45
3:A:299:ALA:O	3:A:302:ASP:CG	2.59	0.45
3:A:855:ARG:NH1	3:A:978:TYR:CE2	2.83	0.45
3:A:961:ASP:HA	3:A:965:GLY:HA2	1.98	0.45
3:A:1087:HIS:O	6:E:10:ASP:CB	2.64	0.45
4:B:289:GLU:HA	4:B:1171:ARG:HH12	1.81	0.45
4:B:321:GLN:O	4:B:325:GLU:HB3	2.16	0.45
4:B:373:GLY:HA3	4:B:374:GLU:OE1	2.17	0.45
4:B:488:TYR:CD2	4:B:878:SER:HB2	2.52	0.45
4:B:573:ASN:O	4:B:574:LEU:HG	2.16	0.45
4:B:851:GLY:CA	4:B:877:LEU:CG	2.86	0.45
4:B:1029:LEU:O	4:B:1083:LEU:HD22	2.16	0.45
4:B:1129:TYR:HB3	4:B:1130:GLN:HE21	1.82	0.45
5:C:32:GLN:HA	5:C:35:THR:CG2	2.46	0.45
5:C:54:THR:OG1	5:C:141:ARG:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:110:SER:HB3	5:C:123:PRO:HB2	1.97	0.45
5:C:143:GLU:N	5:C:143:GLU:OE1	2.49	0.45
5:D:52:ALA:HA	5:D:87:LEU:HD11	1.98	0.45
5:D:81:ARG:HE	5:D:126:TYR:HE2	1.64	0.45
5:D:113:ASP:CA	5:D:114:LEU:HG	2.47	0.45
5:D:206:PRO:HA	5:D:209:ALA:HB3	1.98	0.45
6:E:154:GLU:OE2	6:E:179:SER:C	2.58	0.45
6:E:224:LEU:N	6:E:224:LEU:CD2	2.79	0.45
6:E:325:GLY:HA2	6:E:331:LEU:HD11	1.97	0.45
6:E:338:ILE:HG22	6:E:344:ARG:CB	2.46	0.45
6:E:379:MET:HE2	6:E:475:VAL:HG11	1.96	0.45
6:E:606:ILE:H	6:E:606:ILE:CD1	2.29	0.45
8:G:109:ASP:OD1	8:G:113:LEU:HD21	2.16	0.45
8:G:378:HIS:HE2	10:X:57:VAL:HG22	1.81	0.45
9:T:186:SER:N	9:T:213:LEU:HD23	2.26	0.45
9:T:234:ARG:HB3	9:V:105:LEU:HD23	1.98	0.45
9:T:279:VAL:HG22	9:T:281:THR:HG22	1.98	0.45
9:U:70:ILE:HG23	9:U:71:CYS:N	2.32	0.45
9:U:98:HIS:CG	9:U:99:SER:N	2.83	0.45
9:U:127:GLY:CA	9:U:200:TYR:CD1	2.98	0.45
9:U:158:VAL:N	9:U:295:GLN:OE1	2.49	0.45
9:U:163:TYR:CG	9:U:164:ASP:N	2.85	0.45
9:U:278:MET:C	9:U:280:THR:H	2.24	0.45
9:V:26:GLY:O	9:V:27:VAL:C	2.58	0.45
9:V:66:ARG:CG	9:V:67:ALA:N	2.60	0.45
9:V:94:ILE:HA	9:V:142:LEU:O	2.16	0.45
9:V:194:VAL:HG13	9:V:221:LEU:CD1	2.37	0.45
10:X:169:THR:OG1	10:X:170:ILE:O	2.24	0.45
10:Y:136:MET:CE	10:Y:152:PHE:HD1	2.30	0.45
1:1:52:DA:H2"	1:1:53:DC:C6	2.52	0.45
1:1:100:DA:N3	8:G:209:TYR:HB2	2.31	0.45
2:2:89:DT:C2'	9:T:35:GLN:HE21	2.16	0.45
2:2:98:DA:H4'	9:S:156:ASP:CB	2.46	0.45
3:A:173:LEU:HA	3:A:173:LEU:HD23	0.89	0.45
3:A:269:LEU:N	3:A:290:ARG:O	2.47	0.45
3:A:294:SER:H	3:A:294:SER:HG	1.32	0.45
3:A:300:ALA:O	3:A:301:VAL:C	2.59	0.45
3:A:441:ALA:O	3:A:442:GLY:C	2.59	0.45
3:A:488:LEU:HD21	3:A:525:ASP:N	2.30	0.45
3:A:522:GLU:OE1	3:A:523:GLN:OE1	2.34	0.45
3:A:566:LEU:C	3:A:568:LYS:N	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:567:LEU:C	3:A:569:PRO:HD3	2.40	0.45
4:B:106:LYS:HA	4:B:109:VAL:HG12	1.98	0.45
4:B:124:MET:HE3	6:E:518:TYR:HE2	1.82	0.45
4:B:350:ARG:HD2	4:B:350:ARG:HA	1.66	0.45
4:B:354:ASP:OD1	4:B:354:ASP:N	2.49	0.45
4:B:472:THR:HG21	4:B:980:LEU:HD22	1.97	0.45
4:B:500:ASN:ND2	4:B:886:GLY:HA2	2.32	0.45
4:B:550:THR:OG1	4:B:566:THR:HG22	2.16	0.45
4:B:695:ASP:O	4:B:696:ASP:CB	2.65	0.45
4:B:896:ARG:CB	4:B:987:LEU:H	2.28	0.45
4:B:941:VAL:C	4:B:965:THR:O	2.59	0.45
4:B:1115:GLN:HE22	4:B:1116:LYS:HE2	1.82	0.45
4:B:1154:ILE:CG1	4:B:1166:GLU:HB3	2.46	0.45
5:C:10:GLU:CD	5:C:11:SER:N	2.75	0.45
5:C:57:ARG:HG2	5:C:57:ARG:NH1	2.31	0.45
5:D:22:LYS:C	5:D:23:PHE:CD1	2.95	0.45
5:D:57:ARG:HG3	5:D:139:GLU:CB	2.46	0.45
5:D:108:THR:OG1	5:D:111:HIS:N	2.41	0.45
5:D:140:PHE:CD2	5:D:141:ARG:O	2.69	0.45
5:D:145:GLY:HA3	5:D:170:PHE:HE2	1.81	0.45
5:D:212:SER:O	5:D:214:ALA:N	2.49	0.45
6:E:18:SER:OG	6:E:243:TRP:NE1	2.49	0.45
6:E:80:ARG:NH2	8:G:348:MET:H	2.06	0.45
6:E:86:CYS:N	6:E:91:VAL:O	2.47	0.45
6:E:384:PHE:O	6:E:385:GLN:C	2.59	0.45
6:E:558:VAL:O	6:E:606:ILE:N	2.49	0.45
8:G:103:LEU:HD11	8:G:158:MET:HB2	1.98	0.45
9:S:107:PRO:HB2	9:S:300:ASN:HB3	1.97	0.45
9:S:161:VAL:HG11	9:S:275:ARG:HD3	1.98	0.45
9:S:183:VAL:HG12	9:S:183:VAL:O	2.16	0.45
9:T:113:CYS:O	9:T:118:GLU:HB2	2.17	0.45
9:T:128:SER:CA	9:T:145:VAL:HA	2.46	0.45
9:T:142:LEU:HD22	9:T:293:PHE:CD2	2.48	0.45
9:U:200:TYR:H	9:U:203:GLN:HB3	1.82	0.45
9:V:120:GLN:O	9:V:122:ARG:HD2	2.17	0.45
9:V:163:TYR:C	9:V:274:ARG:CG	2.90	0.45
9:V:196:PHE:C	9:V:203:GLN:HG2	2.41	0.45
9:V:241:LEU:HD12	9:V:241:LEU:O	2.15	0.45
9:V:292:HIS:CD2	9:V:292:HIS:C	2.95	0.45
10:X:150:VAL:HG11	10:X:218:LEU:C	2.41	0.45
10:Y:118:LEU:CA	10:Y:121:LEU:HB2	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:145:MET:C	10:Y:147:SER:N	2.67	0.45
1:1:61:DT:C1'	1:1:62:DT:H5'	2.38	0.45
1:1:64:DT:O4	10:Y:187:ARG:HD2	2.16	0.45
3:A:45:GLY:O	3:A:49:GLU:CD	2.60	0.45
3:A:176:GLU:OE2	3:A:184:TRP:CA	2.65	0.45
3:A:283:LEU:HD23	3:A:283:LEU:HA	1.50	0.45
3:A:298:LEU:H	3:A:298:LEU:HG	1.22	0.45
3:A:305:ILE:HA	3:A:308:GLU:CB	2.46	0.45
3:A:365:VAL:C	3:A:367:PRO:HD3	2.41	0.45
3:A:374:ILE:HA	3:A:377:PHE:HD2	1.82	0.45
3:A:402:LEU:HD21	3:A:445:GLY:HA3	1.98	0.45
3:A:427:TYR:CD1	4:B:173:ILE:HD12	2.50	0.45
3:A:520:THR:CB	3:A:521:PRO:HD2	2.46	0.45
3:A:546:GLU:CD	3:A:547:HIS:CE1	2.94	0.45
3:A:572:PRO:HG2	3:A:573:LEU:C	2.41	0.45
3:A:576:THR:O	3:A:577:GLY:O	2.34	0.45
3:A:691:MET:O	3:A:693:TRP:N	2.48	0.45
3:A:816:ASP:OD2	3:A:839:TYR:CE2	2.69	0.45
3:A:905:TRP:O	3:A:906:ALA:O	2.34	0.45
4:B:51:ILE:H	4:B:51:ILE:HG23	1.35	0.45
4:B:161:THR:OG1	4:B:165:GLU:OE2	2.34	0.45
4:B:330:LEU:HD21	4:B:1128:VAL:CG1	2.47	0.45
4:B:439:GLU:CD	4:B:440:LYS:N	2.74	0.45
4:B:497:VAL:H	4:B:510:LEU:C	2.25	0.45
4:B:535:ARG:HD3	4:B:535:ARG:HA	1.70	0.45
4:B:747:PRO:O	4:B:748:SER:C	2.60	0.45
4:B:882:GLY:O	4:B:884:VAL:HG23	2.17	0.45
4:B:896:ARG:CD	4:B:987:LEU:N	2.79	0.45
4:B:897:CYS:O	4:B:987:LEU:HD21	2.17	0.45
4:B:1202:LEU:HG	4:B:1215:GLU:CD	2.41	0.45
4:B:1225:ILE:HD11	6:E:124:TYR:CE1	2.51	0.45
5:C:130:ILE:HG13	5:C:131:ALA:H	1.82	0.45
5:C:186:ASP:HA	5:C:189:ILE:O	2.16	0.45
5:D:18:ASN:C	5:D:20:TYR:N	2.74	0.45
5:D:99:LEU:O	5:D:137:GLU:HA	2.17	0.45
5:D:130:ILE:HG13	5:D:131:ALA:H	1.81	0.45
5:D:154:GLY:O	5:D:157:GLU:HG2	2.17	0.45
6:E:207:GLU:O	6:E:211:GLU:HG3	2.16	0.45
6:E:317:GLY:O	6:E:318:ARG:C	2.59	0.45
8:G:179:SER:O	8:G:180:PHE:C	2.58	0.45
9:S:56:LEU:O	9:S:57:THR:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:109:LEU:O	9:S:113:CYS:SG	2.71	0.45
9:S:157:MET:CG	9:U:20:LYS:HZ3	2.27	0.45
9:S:161:VAL:HA	9:S:277:VAL:HA	1.99	0.45
9:S:207:GLN:CA	9:S:217:LEU:HD13	2.39	0.45
9:S:228:ALA:C	9:S:230:ARG:N	2.72	0.45
9:T:205:LEU:O	9:T:209:LYS:N	2.49	0.45
9:T:226:LEU:HD23	9:T:230:ARG:NH2	2.31	0.45
9:U:176:PRO:O	9:U:177:LEU:C	2.59	0.45
9:V:64:LEU:O	9:V:65:PRO:C	2.59	0.45
10:X:55:SER:HB3	10:X:63:GLU:HG2	1.97	0.45
10:Y:47:LEU:HD22	10:Y:69:LEU:CD2	2.47	0.45
10:Y:49:LYS:HD3	10:Y:50:GLY:N	2.32	0.45
1:1:20:DA:C6	2:2:105:DG:C6	2.88	0.45
1:1:112:DG:O6	3:A:323:ARG:HD3	2.16	0.45
3:A:64:GLU:HG2	3:A:102:LEU:C	2.41	0.45
3:A:106:THR:HA	4:B:557:GLN:HB3	1.98	0.45
3:A:288:THR:C	3:A:290:ARG:NH1	2.72	0.45
3:A:367:PRO:O	3:A:370:LEU:N	2.46	0.45
3:A:423:HIS:CD2	3:A:423:HIS:O	2.70	0.45
3:A:444:ILE:HD12	3:A:444:ILE:N	2.32	0.45
3:A:491:ALA:HB3	3:A:526:TYR:C	2.41	0.45
3:A:543:PRO:C	3:A:544:PHE:CD1	2.95	0.45
3:A:663:VAL:CG1	3:A:664:VAL:N	2.63	0.45
3:A:726:ALA:HA	3:A:772:LYS:HZ1	1.81	0.45
3:A:745:GLU:O	3:A:748:LEU:N	2.49	0.45
3:A:745:GLU:CA	3:A:748:LEU:H	2.29	0.45
3:A:878:SER:HA	3:A:879:PRO:HD3	1.64	0.45
3:A:1022:VAL:HG21	6:E:350:LEU:O	2.16	0.45
3:A:1067:PRO:HG3	4:B:1241:ILE:O	2.17	0.45
4:B:80:TYR:O	4:B:81:GLN:C	2.60	0.45
4:B:97:THR:HA	4:B:422:GLN:CA	2.37	0.45
4:B:160:LYS:HE2	4:B:171:GLU:OE2	2.17	0.45
4:B:330:LEU:HD13	4:B:1011:LEU:CA	2.47	0.45
4:B:528:ALA:HB2	4:B:533:SER:O	2.16	0.45
4:B:543:SER:O	4:B:759:SER:HA	2.17	0.45
4:B:1094:LEU:HD22	4:B:1194:LEU:CG	2.45	0.45
4:B:1230:ASP:N	6:E:12:VAL:O	2.38	0.45
5:C:52:ALA:HB3	5:C:170:PHE:CG	2.51	0.45
5:C:83:LYS:HD3	5:C:83:LYS:HA	1.30	0.45
5:C:215:GLY:HA2	5:C:218:VAL:HG12	1.97	0.45
5:D:19:HIS:O	5:D:20:TYR:C	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:141:TYR:HD1	6:E:304:ARG:CZ	2.16	0.45
6:E:458:PRO:O	6:E:459:LEU:O	2.35	0.45
6:E:555:TYR:HA	6:E:609:THR:N	2.31	0.45
8:G:246:THR:O	8:G:247:LYS:C	2.59	0.45
8:G:372:ALA:HA	8:G:375:LYS:HG3	1.97	0.45
9:S:6:LEU:HD22	9:S:7:GLN:HG2	1.98	0.45
9:T:166:PRO:HA	9:T:273:THR:CA	2.40	0.45
9:T:167:ILE:HG12	9:T:241:LEU:CD1	2.46	0.45
9:U:105:LEU:C	9:U:107:PRO:N	2.75	0.45
9:U:188:LEU:O	9:U:188:LEU:HD12	2.17	0.45
9:V:90:PRO:HB3	9:V:116:TYR:CE2	2.46	0.45
9:V:93:CYS:O	9:V:94:ILE:HG12	2.16	0.45
9:V:175:HIS:ND1	9:V:177:LEU:HD22	2.32	0.45
9:V:183:VAL:CG2	9:V:261:LEU:HB2	2.46	0.45
10:X:49:LYS:HD3	10:X:50:GLY:HA2	1.99	0.45
10:Y:187:ARG:HA	10:Y:190:VAL:HG11	1.99	0.45
2:2:64:DA:C2	2:2:65:DA:N6	2.85	0.45
3:A:114:VAL:HG11	3:A:365:VAL:HG11	1.97	0.45
3:A:166:ILE:HD11	3:A:172:TRP:HB3	1.99	0.45
3:A:192:LYS:O	3:A:194:SER:N	2.49	0.45
3:A:488:LEU:HD22	3:A:526:TYR:HD2	1.81	0.45
3:A:490:VAL:HG12	3:A:511:ARG:HB2	1.99	0.45
3:A:507:GLN:OE1	3:A:507:GLN:C	2.60	0.45
3:A:520:THR:O	3:A:522:GLU:N	2.50	0.45
3:A:597:ASP:C	3:A:615:PRO:CD	2.90	0.45
3:A:597:ASP:H	3:A:614:LEU:C	2.25	0.45
3:A:607:ARG:O	3:A:615:PRO:HG3	2.16	0.45
3:A:675:THR:OG1	3:A:677:GLY:N	2.49	0.45
3:A:737:THR:HG1	3:A:739:GLU:H	1.47	0.45
3:A:745:GLU:HA	3:A:748:LEU:N	2.31	0.45
3:A:755:GLY:C	3:A:770:VAL:HG23	2.42	0.45
3:A:782:PRO:HD2	3:A:785:GLU:CG	2.47	0.45
3:A:840:VAL:HG22	3:A:841:ALA:N	2.32	0.45
3:A:1016:ARG:NH2	6:E:353:ARG:CZ	2.79	0.45
4:B:57:MET:O	4:B:141:VAL:HG12	2.16	0.45
4:B:89:GLU:O	4:B:90:ARG:C	2.58	0.45
4:B:92:GLN:NE2	4:B:96:ASP:CG	2.69	0.45
4:B:286:LEU:CD2	4:B:1115:GLN:HA	2.31	0.45
4:B:513:THR:C	4:B:515:LEU:N	2.75	0.45
4:B:707:LEU:HB3	4:B:725:ILE:H	1.81	0.45
4:B:823:GLU:HA	4:B:826:ASP:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:827:VAL:O	4:B:827:VAL:HG12	2.15	0.45
4:B:940:ILE:CA	4:B:966:ILE:HD12	2.46	0.45
4:B:1040:TYR:CG	4:B:1049:ILE:HA	2.52	0.45
5:C:81:ARG:C	5:C:84:GLU:OE1	2.59	0.45
5:C:129:THR:HG22	5:C:130:ILE:N	2.32	0.45
5:D:10:GLU:CD	5:D:11:SER:N	2.74	0.45
5:D:110:SER:HB3	5:D:123:PRO:HB2	1.97	0.45
5:D:216:ILE:O	5:D:220:LEU:CG	2.64	0.45
6:E:36:VAL:O	6:E:36:VAL:HG22	2.16	0.45
6:E:249:ILE:HG23	6:E:249:ILE:HD12	1.28	0.45
6:E:392:LEU:O	6:E:393:ILE:C	2.54	0.45
6:E:431:ASN:CG	6:E:441:ILE:HG12	2.42	0.45
8:G:92:ILE:CG2	8:G:161:SER:HA	2.47	0.45
8:G:229:ILE:O	8:G:230:ARG:C	2.60	0.45
8:G:290:ILE:N	8:G:296:SER:HB2	2.30	0.45
8:G:302:ILE:HD12	8:G:302:ILE:N	2.32	0.45
9:S:5:GLN:O	9:S:9:PHE:CD1	2.54	0.45
9:S:8:ALA:CB	9:S:32:ILE:CD1	2.90	0.45
9:S:64:LEU:HD22	9:S:68:ARG:HD3	1.99	0.45
9:S:162:LEU:C	9:S:163:TYR:CD2	2.94	0.45
9:S:265:ALA:O	9:S:266:LEU:C	2.60	0.45
9:T:12:ILE:HD13	9:T:18:PHE:HB3	1.96	0.45
9:T:184:PRO:O	9:T:185:TRP:C	2.59	0.45
9:T:261:LEU:HB2	9:T:272:LEU:HD22	1.99	0.45
9:V:107:PRO:CB	9:V:111:LYS:HZ1	2.29	0.45
10:X:123:LEU:CA	10:Y:126:LEU:HD22	2.39	0.45
10:Y:55:SER:CB	10:Y:92:ALA:HA	2.29	0.45
3:A:56:ILE:CD1	3:A:67:PHE:HE1	2.29	0.45
3:A:134:GLU:O	3:A:135:ARG:C	2.58	0.45
3:A:147:VAL:CG1	3:A:277:LEU:HD11	2.44	0.45
3:A:208:GLU:C	3:A:210:PHE:N	2.75	0.45
3:A:325:VAL:HG22	3:A:326:ARG:CA	2.47	0.45
3:A:340:LEU:O	3:A:344:GLU:N	2.48	0.45
3:A:427:TYR:CE2	3:A:511:ARG:NH1	2.63	0.45
3:A:466:VAL:O	3:A:468:ASN:N	2.50	0.45
3:A:488:LEU:HD13	3:A:525:ASP:OD2	2.16	0.45
3:A:571:ARG:HB3	3:A:676:GLU:OE2	2.17	0.45
3:A:596:GLY:C	3:A:662:ARG:NH2	2.75	0.45
3:A:683:GLY:C	3:A:684:GLN:OE1	2.60	0.45
3:A:764:GLU:O	3:A:765:ALA:HB3	2.16	0.45
3:A:900:GLU:CG	3:A:901:CYS:N	2.76	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1061:ILE:HD12	3:A:1061:ILE:HA	1.69	0.45
4:B:57:MET:O	4:B:141:VAL:CG1	2.64	0.45
4:B:98:TRP:O	4:B:99:ASN:C	2.55	0.45
4:B:103:GLU:CB	4:B:424:LEU:HD12	2.31	0.45
4:B:111:THR:O	4:B:112:HIS:C	2.59	0.45
4:B:190:THR:HG23	4:B:191:ALA:N	2.30	0.45
4:B:504:VAL:HG22	4:B:505:GLU:H	1.82	0.45
4:B:653:TYR:CD1	4:B:670:GLY:O	2.70	0.45
4:B:670:GLY:HA3	4:B:689:GLY:CA	2.45	0.45
4:B:717:GLN:O	4:B:718:VAL:C	2.60	0.45
4:B:852:SER:N	4:B:877:LEU:HD23	1.95	0.45
4:B:887:VAL:HG13	4:B:897:CYS:SG	2.56	0.45
4:B:1078:PRO:HB2	4:B:1100:LEU:CD2	2.47	0.45
4:B:1174:GLU:CD	4:B:1175:GLN:H	2.24	0.45
5:C:32:GLN:CA	5:C:35:THR:HG23	2.47	0.45
5:C:109:ALA:HB2	5:C:125:GLN:HB3	1.99	0.45
5:C:206:PRO:HA	5:C:209:ALA:HB3	1.98	0.45
5:D:21:SER:HB3	5:D:23:PHE:CE1	2.52	0.45
5:D:109:ALA:O	5:D:110:SER:C	2.57	0.45
5:D:129:THR:HG22	5:D:130:ILE:N	2.32	0.45
6:E:19:PRO:HB3	6:E:247:THR:CG2	2.47	0.45
6:E:58:PHE:O	6:E:99:ARG:NH2	2.50	0.45
6:E:136:VAL:CG2	6:E:139:ILE:HD12	2.35	0.45
6:E:291:GLU:N	6:E:291:GLU:CD	2.73	0.45
6:E:577:THR:N	6:E:585:THR:O	2.49	0.45
8:G:249:LEU:CD2	8:G:265:ARG:HG2	2.40	0.45
8:G:259:GLU:OE1	8:G:260:GLU:OE1	2.34	0.45
8:G:378:HIS:HE2	10:X:61:GLY:HA2	1.81	0.45
9:S:3:LEU:HD13	9:S:74:TRP:CZ2	2.52	0.45
9:S:31:THR:HG22	9:S:31:THR:O	2.16	0.45
9:T:79:GLN:OE1	9:T:83:ASP:HB2	2.16	0.45
9:T:163:TYR:CB	9:T:301:ILE:HG23	2.47	0.45
9:T:209:LYS:NZ	9:T:274:ARG:N	2.52	0.45
9:T:234:ARG:HG3	9:V:106:PRO:HG3	1.99	0.45
9:U:70:ILE:HA	9:U:73:GLU:HB2	1.99	0.45
9:U:92:LEU:HB2	9:U:290:ILE:CD1	2.24	0.45
9:U:296:LEU:C	9:U:301:ILE:HG13	2.41	0.45
9:V:7:GLN:HB2	9:V:25:CYS:SG	2.57	0.45
9:V:72:LEU:C	9:V:75:GLU:H	2.24	0.45
9:V:150:PHE:CD2	9:V:153:THR:OG1	2.63	0.45
9:V:172:ALA:CB	9:V:175:HIS:H	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:261:LEU:O	9:V:261:LEU:CG	2.62	0.45
10:X:96:THR:O	10:X:98:VAL:N	2.50	0.45
10:X:124:ARG:O	10:X:128:SER:N	2.49	0.45
10:Y:76:GLY:HA2	10:Y:79:SER:HG	1.81	0.45
10:Y:137:ILE:O	10:Y:140:LEU:HG	2.16	0.45
1:1:113:DT:C6	3:A:414:ARG:HG3	2.47	0.45
3:A:46:LEU:HG	3:A:47:ILE:CD1	2.47	0.45
3:A:151:SER:C	3:A:152:GLU:HG2	2.41	0.45
3:A:152:GLU:OE2	3:A:162:SER:OG	2.34	0.45
3:A:304:LEU:HD22	3:A:307:LEU:CG	2.46	0.45
3:A:532:VAL:HG12	3:A:535:VAL:HG11	1.85	0.45
3:A:542:ILE:HG12	3:A:856:HIS:CB	2.43	0.45
3:A:563:ALA:HA	3:A:982:LEU:CD2	2.34	0.45
3:A:596:GLY:H	3:A:662:ARG:HH22	1.63	0.45
3:A:707:ARG:HH21	3:A:881:ASP:HB2	1.80	0.45
3:A:756:ILE:HG13	3:A:757:ILE:H	1.82	0.45
3:A:1031:ALA:HB1	4:B:1244:LEU:HB2	1.98	0.45
4:B:17:ILE:O	4:B:18:SER:O	2.35	0.45
4:B:32:MET:CG	4:B:33:ALA:N	2.80	0.45
4:B:65:LEU:CD2	4:B:105:LEU:HD12	2.46	0.45
4:B:82:ARG:O	4:B:84:GLU:N	2.49	0.45
4:B:124:MET:CG	6:E:518:TYR:HE2	2.19	0.45
4:B:147:MET:O	4:B:154:ILE:CD1	2.45	0.45
4:B:170:THR:O	4:B:171:GLU:C	2.60	0.45
4:B:443:LYS:CD	4:B:999:PHE:HB3	2.46	0.45
4:B:521:GLY:HA2	4:B:864:THR:HA	1.98	0.45
4:B:631:TRP:CH2	4:B:782:VAL:HG21	2.52	0.45
4:B:666:CYS:C	4:B:668:ASN:N	2.75	0.45
4:B:707:LEU:HD13	4:B:724:TYR:HA	1.98	0.45
4:B:901:ARG:H	4:B:904:ASP:HB3	1.79	0.45
4:B:910:ILE:HG23	4:B:962:TYR:HB3	1.98	0.45
4:B:916:VAL:HG12	4:B:917:LYS:H	1.82	0.45
4:B:990:ARG:C	4:B:992:ASP:H	2.25	0.45
4:B:1118:GLN:CB	4:B:1145:VAL:HG12	2.46	0.45
5:C:18:ASN:C	5:C:20:TYR:N	2.74	0.45
5:C:113:ASP:CA	5:C:114:LEU:HG	2.47	0.45
6:E:19:PRO:CD	6:E:20:GLU:OE1	2.65	0.45
6:E:247:THR:H	6:E:247:THR:HG23	1.37	0.45
6:E:394:ARG:C	6:E:396:GLY:H	2.23	0.45
6:E:583:SER:HB2	6:E:594:ARG:NH2	2.31	0.45
7:F:32:THR:OG1	7:F:33:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:117:ARG:HD2	8:G:117:ARG:C	2.42	0.45
8:G:336:VAL:HG21	8:G:358:PHE:CG	2.52	0.45
9:S:193:GLN:NE2	9:S:210:PHE:HE2	2.15	0.45
9:S:196:PHE:CB	9:S:203:GLN:CD	2.62	0.45
9:S:203:GLN:O	9:S:207:GLN:N	2.49	0.45
9:T:156:ASP:CA	9:T:294:TRP:CB	2.95	0.45
9:T:195:VAL:HB	9:T:203:GLN:HA	1.99	0.45
9:T:274:ARG:NH1	9:T:276:VAL:CG1	2.79	0.45
9:U:94:ILE:HG22	9:U:142:LEU:O	2.17	0.45
9:U:128:SER:CB	9:U:201:GLY:HA3	2.47	0.45
9:U:141:ASP:CG	9:U:284:ARG:CZ	2.90	0.45
9:V:73:GLU:C	9:V:75:GLU:H	2.24	0.45
9:V:155:ARG:HA	9:V:279:VAL:CG1	2.35	0.45
9:V:172:ALA:HB3	9:V:175:HIS:CB	2.42	0.45
9:V:190:ARG:N	9:V:193:GLN:HE22	2.14	0.45
9:V:193:GLN:OE1	9:V:215:ALA:HB1	2.17	0.45
9:V:210:PHE:C	9:V:215:ALA:H	2.25	0.45
10:Y:139:THR:O	10:Y:142:HIS:CE1	2.70	0.45
10:Y:168:ILE:CG2	10:Y:212:VAL:HG23	2.46	0.45
10:Y:179:ILE:CG1	10:Y:190:VAL:HA	2.40	0.45
2:2:80:DT:C6	9:S:34:ARG:HD2	2.52	0.45
3:A:103:ASN:ND2	3:A:105:GLU:C	2.75	0.45
3:A:113:GLU:OE2	3:A:114:VAL:C	2.59	0.45
3:A:135:ARG:HD3	3:A:386:PHE:HE1	1.75	0.45
3:A:147:VAL:HB	3:A:165:LEU:HG	1.99	0.45
3:A:156:ASN:CG	3:A:157:GLY:N	2.74	0.45
3:A:183:VAL:C	3:A:184:TRP:CD1	2.95	0.45
3:A:183:VAL:C	3:A:184:TRP:CG	2.95	0.45
3:A:293:THR:O	3:A:296:ASP:OD2	2.35	0.45
3:A:570:GLU:OE1	3:A:570:GLU:HA	2.14	0.45
3:A:704:ILE:HD12	3:A:704:ILE:HA	1.18	0.45
3:A:724:ILE:CG1	3:A:725:GLU:H	2.26	0.45
3:A:734:GLU:OE2	3:A:775:PRO:HB3	2.17	0.45
3:A:782:PRO:O	3:A:785:GLU:CB	2.65	0.45
3:A:852:MET:HE2	3:A:862:ILE:HD11	1.97	0.45
3:A:896:GLY:O	3:A:900:GLU:OE1	2.35	0.45
3:A:1017:PHE:CZ	3:A:1022:VAL:HG13	2.41	0.45
3:A:1052:LEU:HD23	3:A:1052:LEU:HA	1.67	0.45
4:B:120:ASN:O	4:B:124:MET:N	2.36	0.45
4:B:271:GLU:O	4:B:272:ILE:C	2.57	0.45
4:B:322:SER:OG	4:B:1140:HIS:CD2	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:373:GLY:O	4:B:374:GLU:C	2.60	0.45
4:B:412:ILE:HA	4:B:424:LEU:CA	2.47	0.45
4:B:457:GLU:CB	4:B:481:TRP:CH2	2.95	0.45
4:B:577:THR:CG2	4:B:580:THR:HG23	2.47	0.45
4:B:603:PHE:CD1	4:B:604:LEU:C	2.95	0.45
4:B:885:ARG:N	4:B:887:VAL:HG23	2.31	0.45
4:B:982:ILE:HG13	4:B:986:ASP:HB2	1.97	0.45
5:C:18:ASN:OD1	5:C:20:TYR:N	2.50	0.45
5:D:13:THR:HB	5:D:19:HIS:ND1	2.32	0.45
5:D:24:ILE:HD13	5:D:24:ILE:HA	1.64	0.45
5:D:182:GLU:HA	5:D:192:ASP:CB	2.47	0.45
6:E:46:ASN:HD21	6:E:49:THR:CA	2.28	0.45
6:E:80:ARG:HB3	8:G:346:GLY:H	1.82	0.45
6:E:428:VAL:CG1	6:E:429:MET:N	2.77	0.45
7:F:63:ILE:HA	7:F:66:SER:OG	2.16	0.45
8:G:89:ILE:CA	8:G:92:ILE:HD12	2.46	0.45
8:G:216:GLN:CD	8:G:216:GLN:C	2.85	0.45
8:G:219:THR:HA	8:G:222:ILE:HG23	1.98	0.45
8:G:233:VAL:CA	8:G:236:TYR:CZ	2.93	0.45
8:G:299:GLY:HA2	8:G:301:PHE:HB2	1.98	0.45
9:T:65:PRO:O	9:T:66:ARG:C	2.60	0.45
9:T:135:LEU:O	9:T:284:ARG:HG2	2.17	0.45
9:T:185:TRP:N	9:T:262:ALA:C	2.75	0.45
9:U:62:ARG:HD2	9:V:87:GLY:C	2.42	0.45
9:U:72:LEU:HA	9:U:75:GLU:HB2	1.99	0.45
9:U:283:ASP:O	9:U:287:ILE:HG23	2.16	0.45
9:V:16:GLY:O	9:V:17:SER:HB2	2.17	0.45
9:V:97:ILE:HG21	9:V:205:LEU:HD23	1.99	0.45
9:V:147:ASN:O	9:V:149:ARG:N	2.50	0.45
9:V:159:VAL:HG12	9:V:160:GLU:CA	2.47	0.45
9:V:285:LEU:CD1	9:V:290:ILE:C	2.90	0.45
10:X:74:VAL:HG22	10:X:75:PHE:O	2.18	0.45
10:Y:119:SER:HA	10:Y:122:MET:CB	2.46	0.45
10:Y:214:LYS:O	10:Y:217:THR:HG22	2.16	0.45
2:2:96:DA:C2	2:2:97:DG:C2	3.05	0.44
2:2:98:DA:OP1	9:S:158:VAL:HA	2.17	0.44
3:A:58:ASP:O	3:A:61:GLY:N	2.50	0.44
3:A:81:VAL:CG1	3:A:123:THR:HG21	2.47	0.44
3:A:180:ASN:OD1	3:A:182:LEU:HD13	2.17	0.44
3:A:374:ILE:C	3:A:376:GLU:H	2.23	0.44
3:A:430:ILE:HG23	3:A:446:SER:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:687:VAL:CA	3:A:975:GLY:O	2.58	0.44
3:A:751:LEU:HA	3:A:751:LEU:HD13	1.46	0.44
4:B:68:ALA:HA	4:B:71:GLU:OE1	2.17	0.44
4:B:153:GLU:CD	4:B:154:ILE:N	2.72	0.44
4:B:163:PHE:O	4:B:165:GLU:CD	2.60	0.44
4:B:214:CYS:CB	4:B:295:CYS:SG	3.05	0.44
4:B:246:GLU:OE1	4:B:246:GLU:N	2.50	0.44
4:B:283:ARG:NE	4:B:298:CYS:HA	2.25	0.44
4:B:479:LEU:H	4:B:481:TRP:HZ3	1.58	0.44
4:B:497:VAL:HG21	4:B:875:GLN:OE1	2.16	0.44
4:B:520:GLY:CA	4:B:539:ILE:HG21	2.46	0.44
4:B:535:ARG:O	4:B:839:VAL:HA	2.16	0.44
4:B:595:ARG:HH11	4:B:595:ARG:HG2	1.82	0.44
4:B:603:PHE:HD1	4:B:605:LYS:N	2.15	0.44
4:B:621:TYR:OH	4:B:774:LEU:O	2.31	0.44
4:B:672:VAL:HG22	4:B:686:VAL:HG22	1.99	0.44
4:B:1040:TYR:HB3	4:B:1050:LYS:H	1.83	0.44
4:B:1093:ILE:O	4:B:1096:VAL:HB	2.16	0.44
5:C:22:LYS:C	5:C:23:PHE:CD1	2.95	0.44
5:D:108:THR:OG1	5:D:111:HIS:HB3	2.17	0.44
5:D:218:VAL:N	5:D:219:ASP:OD1	2.50	0.44
6:E:377:ARG:HD2	6:E:450:GLU:CG	2.48	0.44
6:E:522:ALA:O	6:E:553:HIS:HB3	2.17	0.44
6:E:540:ASP:O	6:E:543:MET:HB2	2.17	0.44
7:F:59:LEU:HD12	7:F:59:LEU:C	2.41	0.44
8:G:111:LEU:O	8:G:115:ARG:NE	2.50	0.44
8:G:115:ARG:CB	8:G:119:ARG:NH2	2.80	0.44
8:G:271:GLU:OE1	8:G:271:GLU:CA	2.61	0.44
9:S:4:GLU:OE1	9:S:27:VAL:HG22	2.17	0.44
9:S:72:LEU:HA	9:S:75:GLU:CB	2.47	0.44
9:T:2:ARG:HH12	9:T:39:LEU:CD1	2.29	0.44
9:T:70:ILE:HA	9:T:73:GLU:HB2	1.99	0.44
9:T:104:TYR:CD2	9:T:248:VAL:HB	2.51	0.44
9:T:195:VAL:H	9:T:203:GLN:HE22	1.64	0.44
9:T:219:ALA:HB1	9:V:120:GLN:HG2	1.99	0.44
9:U:77:ALA:HB1	9:V:66:ARG:HE	1.67	0.44
9:U:180:TYR:HB3	9:U:187:GLU:OE2	2.16	0.44
9:V:261:LEU:HD12	9:V:264:SER:O	2.17	0.44
9:V:285:LEU:CG	9:V:286:GLN:H	2.30	0.44
10:X:58:TYR:CD2	10:X:59:GLU:N	2.85	0.44
10:X:150:VAL:HA	10:X:153:LEU:HD23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:31:ASN:O	10:Y:93:VAL:HB	2.17	0.44
10:Y:44:VAL:O	10:Y:44:VAL:HG12	2.16	0.44
10:Y:74:VAL:HG22	10:Y:75:PHE:O	2.18	0.44
1:1:100:DA:C6	8:G:202:LYS:CE	2.64	0.44
3:A:58:ASP:O	3:A:59:TYR:C	2.60	0.44
3:A:256:LEU:O	3:A:259:SER:CA	2.65	0.44
3:A:284:SER:O	3:A:285:VAL:HG13	2.18	0.44
3:A:293:THR:HG23	3:A:295:GLY:H	1.82	0.44
3:A:329:GLY:O	3:A:333:GLN:HB2	2.16	0.44
3:A:347:ILE:HA	3:A:350:ARG:HB2	1.99	0.44
3:A:395:GLU:O	3:A:396:LEU:C	2.54	0.44
3:A:398:HIS:CE1	3:A:401:ARG:HD2	2.52	0.44
3:A:418:ALA:C	3:A:420:ARG:N	2.69	0.44
3:A:424:PRO:O	3:A:425:SER:C	2.55	0.44
3:A:488:LEU:HD13	3:A:526:TYR:CE2	2.52	0.44
3:A:553:ALA:O	3:A:554:LEU:CD2	2.65	0.44
3:A:816:ASP:O	3:A:838:VAL:HG23	2.16	0.44
3:A:999:SER:HB3	3:A:1004:GLN:O	2.17	0.44
4:B:86:THR:HG23	4:B:89:GLU:CG	2.47	0.44
4:B:101:THR:HG22	4:B:420:LYS:C	2.41	0.44
4:B:221:PRO:HB3	4:B:281:VAL:CG2	2.47	0.44
4:B:250:HIS:ND1	4:B:254:LYS:HB3	2.31	0.44
4:B:359:LEU:CB	4:B:393:GLY:H	2.30	0.44
4:B:479:LEU:HB3	4:B:480:ILE:H	1.42	0.44
4:B:517:THR:HG22	4:B:871:VAL:HG11	1.99	0.44
4:B:701:ILE:CG2	4:B:704:ASP:HB3	2.39	0.44
4:B:728:VAL:HG22	4:B:729:GLU:N	2.30	0.44
4:B:849:THR:CG2	4:B:895:ARG:NH2	2.80	0.44
4:B:1065:PRO:HG2	4:B:1068:ASN:CB	2.39	0.44
4:B:1249:THR:CG2	7:F:33:VAL:HG21	2.40	0.44
5:C:24:ILE:HG22	5:C:26:GLU:N	2.32	0.44
5:C:43:VAL:CG1	5:C:44:LEU:N	2.79	0.44
5:D:222:ASN:C	5:D:224:LEU:H	2.24	0.44
6:E:63:PHE:O	6:E:99:ARG:HA	2.18	0.44
6:E:182:GLN:O	6:E:184:VAL:HG23	2.17	0.44
6:E:211:GLU:C	6:E:211:GLU:OE1	2.60	0.44
6:E:362:ILE:HD12	6:E:473:MET:SD	2.49	0.44
6:E:430:LEU:HD23	6:E:474:ALA:O	2.18	0.44
6:E:481:LEU:O	6:E:482:GLU:C	2.57	0.44
7:F:34:GLN:O	7:F:37:ASN:CB	2.65	0.44
8:G:115:ARG:HA	8:G:118:GLU:CD	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:320:GLU:C	8:G:324:LYS:HG2	2.38	0.44
9:S:84:LEU:HB2	9:S:89:GLN:CB	2.47	0.44
9:S:108:VAL:HG12	9:S:300:ASN:HB2	1.98	0.44
9:S:175:HIS:O	9:S:178:ALA:HB3	2.17	0.44
9:S:185:TRP:HB3	9:S:188:LEU:HD12	1.99	0.44
9:S:200:TYR:HE2	9:S:202:MET:HB2	0.95	0.44
9:T:70:ILE:HG23	9:T:71:CYS:N	2.32	0.44
9:T:197:LYS:O	9:T:199:GLY:CA	2.65	0.44
9:U:138:GLY:C	9:U:141:ASP:CG	2.86	0.44
9:U:156:ASP:HB2	9:U:285:LEU:C	2.42	0.44
9:U:211:GLU:HG2	9:U:216:THR:CA	2.48	0.44
9:V:58:LEU:CG	9:V:61:GLU:HB2	2.48	0.44
9:V:89:GLN:HA	9:V:287:ILE:HD13	1.99	0.44
9:V:97:ILE:HG23	9:V:97:ILE:HD12	1.69	0.44
9:V:176:PRO:C	9:V:178:ALA:H	2.25	0.44
9:V:256:LEU:O	9:V:257:ALA:C	2.59	0.44
10:X:140:LEU:HA	10:X:148:ARG:HD3	1.99	0.44
10:X:164:CYS:O	10:X:165:ALA:C	2.60	0.44
10:Y:131:LEU:C	10:Y:133:THR:N	2.76	0.44
10:Y:188:VAL:C	10:Y:190:VAL:N	2.75	0.44
2:2:96:DA:H2"	2:2:97:DG:C8	2.52	0.44
3:A:340:LEU:HD12	3:A:343:LEU:HD22	1.99	0.44
3:A:402:LEU:HD11	3:A:445:GLY:HA3	1.98	0.44
3:A:433:ILE:HB	3:A:539:THR:CG2	2.46	0.44
3:A:463:PHE:CE1	3:A:526:TYR:CE1	3.05	0.44
3:A:490:VAL:C	3:A:510:VAL:HB	2.42	0.44
3:A:613:GLN:O	3:A:615:PRO:HG2	2.17	0.44
3:A:656:LEU:HD22	3:A:671:ASP:OD2	2.17	0.44
3:A:697:ASN:ND2	3:A:884:LEU:O	2.50	0.44
3:A:737:THR:CB	3:A:773:VAL:HG21	2.29	0.44
3:A:749:ARG:HH21	3:A:750:GLN:HG2	1.82	0.44
3:A:828:LEU:O	3:A:829:PRO:C	2.59	0.44
3:A:963:ARG:HH21	4:B:42:ARG:HB2	1.82	0.44
3:A:1043:ASP:CG	3:A:1068:GLU:N	2.56	0.44
3:A:1077:LEU:HA	3:A:1080:LEU:HD12	1.98	0.44
4:B:89:GLU:HG2	4:B:371:ARG:HB2	1.98	0.44
4:B:304:ALA:HA	6:E:498:LEU:CD2	2.40	0.44
4:B:544:VAL:CG2	4:B:766:ILE:HG21	2.46	0.44
4:B:603:PHE:HB2	4:B:687:LYS:CE	2.46	0.44
4:B:631:TRP:CD1	4:B:742:VAL:HG11	2.41	0.44
4:B:634:GLU:HB2	4:B:686:VAL:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:671:VAL:HG11	4:B:737:LEU:CD2	2.48	0.44
4:B:905:MET:HE1	4:B:907:THR:HG22	2.00	0.44
4:B:944:LYS:HD2	4:B:962:TYR:CE1	2.53	0.44
4:B:1099:SER:O	4:B:1102:SER:CB	2.66	0.44
4:B:1154:ILE:HD13	4:B:1190:TYR:CB	2.47	0.44
5:C:17:ARG:HA	5:C:202:GLY:N	2.32	0.44
5:C:58:ILE:HD13	5:C:58:ILE:HA	1.62	0.44
5:C:108:THR:OG1	5:C:111:HIS:HB3	2.17	0.44
5:C:175:LYS:HD3	5:C:199:TRP:CZ3	2.52	0.44
5:D:26:GLU:OE2	5:D:183:VAL:HG21	2.17	0.44
5:D:107:ILE:HG12	5:D:128:ALA:HB3	2.00	0.44
6:E:136:VAL:HA	6:E:139:ILE:HD12	1.98	0.44
6:E:186:VAL:O	6:E:187:GLY:C	2.60	0.44
6:E:221:ARG:O	6:E:222:ALA:C	2.59	0.44
6:E:260:VAL:HG22	6:E:261:GLN:N	2.33	0.44
6:E:366:PRO:CA	6:E:458:PRO:HD3	2.38	0.44
6:E:497:ILE:O	6:E:505:PRO:HA	2.17	0.44
6:E:578:THR:CG2	6:E:584:ARG:CA	2.71	0.44
7:F:44:TYR:O	7:F:45:GLU:C	2.60	0.44
7:F:55:MET:HB3	7:F:59:LEU:HD21	1.99	0.44
7:F:61:ALA:O	7:F:62:ILE:C	2.60	0.44
8:G:192:ILE:H	8:G:192:ILE:HG23	1.42	0.44
8:G:311:ASP:OD2	8:G:315:LYS:HD2	2.18	0.44
9:S:49:HIS:O	9:S:51:THR:N	2.50	0.44
9:T:82:GLY:N	9:T:85:ILE:HD12	2.33	0.44
9:T:159:VAL:C	9:T:160:GLU:HG2	2.41	0.44
9:T:164:ASP:CG	9:T:275:ARG:HG2	2.42	0.44
9:U:199:GLY:CA	9:U:204:ARG:HB3	2.39	0.44
9:U:200:TYR:HB2	9:U:203:GLN:CB	2.26	0.44
9:U:284:ARG:H	9:U:284:ARG:HG2	1.51	0.44
9:U:295:GLN:O	9:U:296:LEU:C	2.58	0.44
9:V:100:LEU:HD23	9:V:100:LEU:H	1.83	0.44
9:V:159:VAL:HG13	9:V:160:GLU:O	2.17	0.44
9:V:247:LEU:CD1	9:V:251:ARG:NE	2.62	0.44
10:X:126:LEU:HD22	10:Y:126:LEU:HD12	1.87	0.44
10:Y:53:LYS:NZ	10:Y:93:VAL:O	2.41	0.44
10:Y:131:LEU:C	10:Y:133:THR:H	2.25	0.44
1:1:30:DT:H1'	1:1:31:DC:C5'	2.47	0.44
1:1:32:DT:C2	1:1:33:DA:C8	3.05	0.44
1:1:58:DA:H1'	1:1:59:DT:C6	2.52	0.44
3:A:31:ILE:HG13	3:A:34:GLN:HE22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:151:SER:N	3:A:314:ILE:HD11	2.31	0.44
3:A:176:GLU:C	3:A:177:THR:HG23	2.43	0.44
3:A:211:ASP:OD1	3:A:212:ALA:N	2.50	0.44
3:A:221:LYS:HZ1	3:A:225:LYS:HE3	1.82	0.44
3:A:235:LEU:HD12	3:A:235:LEU:C	2.42	0.44
3:A:344:GLU:O	3:A:345:ARG:C	2.57	0.44
3:A:531:PRO:C	3:A:532:VAL:HG23	2.43	0.44
3:A:534:ILE:HD13	4:B:173:ILE:CD1	2.34	0.44
3:A:614:LEU:N	3:A:616:THR:HG22	2.33	0.44
3:A:701:ALA:HB1	6:E:364:VAL:CB	2.48	0.44
3:A:791:ILE:C	3:A:793:GLY:N	2.74	0.44
3:A:869:GLU:HG2	3:A:870:ASP:H	1.78	0.44
3:A:947:TRP:C	3:A:949:TYR:H	2.25	0.44
3:A:953:ASP:HB3	3:A:956:LYS:HB2	1.98	0.44
4:B:68:ALA:O	4:B:71:GLU:OE1	2.35	0.44
4:B:104:ALA:O	4:B:107:ASP:CG	2.61	0.44
4:B:107:ASP:OD1	4:B:107:ASP:C	2.60	0.44
4:B:173:ILE:HG22	4:B:177:TYR:HH	1.73	0.44
4:B:283:ARG:HE	4:B:298:CYS:CA	2.26	0.44
4:B:285:PRO:HG2	4:B:1143:VAL:HG22	1.99	0.44
4:B:533:SER:HB3	4:B:535:ARG:CG	2.47	0.44
4:B:539:ILE:HB	4:B:541:THR:CG2	2.48	0.44
4:B:772:GLN:HG3	4:B:793:THR:HG23	1.99	0.44
4:B:906:ALA:N	4:B:966:ILE:O	2.48	0.44
4:B:1063:LEU:HD23	4:B:1065:PRO:HD3	1.99	0.44
4:B:1179:ALA:O	4:B:1183:THR:HG23	2.17	0.44
5:C:8:CYS:HB2	5:D:228:SER:HA	1.99	0.44
5:C:51:THR:CG2	5:C:144:ARG:HH11	2.17	0.44
5:C:58:ILE:C	5:C:60:GLY:N	2.76	0.44
5:C:113:ASP:C	5:C:114:LEU:HG	2.42	0.44
5:D:18:ASN:OD1	5:D:20:TYR:N	2.49	0.44
5:D:44:LEU:CD2	5:D:198:VAL:HG11	2.45	0.44
5:D:51:THR:HG21	5:D:89:SER:H	1.83	0.44
5:D:218:VAL:HA	5:D:221:PHE:CE2	2.53	0.44
6:E:50:LEU:HA	6:E:50:LEU:HD23	1.58	0.44
6:E:223:LYS:O	6:E:226:LYS:N	2.50	0.44
6:E:229:ARG:HB3	6:E:233:ASN:ND2	2.32	0.44
6:E:486:GLU:O	6:E:491:MET:CB	2.66	0.44
7:F:37:ASN:O	7:F:40:LYS:HG3	2.18	0.44
8:G:219:THR:CA	8:G:222:ILE:HG23	2.47	0.44
8:G:318:LEU:HD22	8:G:390:ARG:HE	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:329:LEU:CB	8:G:375:LYS:HE2	2.47	0.44
9:S:9:PHE:CD2	9:S:47:LEU:HD13	2.53	0.44
9:S:151:LEU:HD22	9:S:159:VAL:HG12	1.99	0.44
9:S:208:GLU:H	9:S:208:GLU:CD	2.23	0.44
9:T:163:TYR:CA	9:T:301:ILE:HG23	2.47	0.44
9:T:239:ILE:HG23	9:T:240:ALA:H	1.83	0.44
9:U:47:LEU:O	9:U:47:LEU:HG	2.16	0.44
9:U:193:GLN:HB2	9:U:217:LEU:HA	2.00	0.44
9:U:209:LYS:HG3	9:U:272:LEU:N	2.33	0.44
9:U:259:ARG:CD	9:U:260:PRO:CD	2.86	0.44
9:U:262:ALA:HA	9:U:272:LEU:HB3	1.98	0.44
9:V:3:LEU:CD1	9:V:4:GLU:HG3	2.48	0.44
9:V:159:VAL:HG12	9:V:160:GLU:N	2.32	0.44
1:1:99:DT:C2	8:G:212:TRP:CZ2	3.05	0.44
3:A:86:ARG:CA	3:A:818:ARG:HH12	2.31	0.44
3:A:152:GLU:OE1	3:A:162:SER:CB	2.66	0.44
3:A:199:LEU:HD22	3:A:228:GLN:C	2.43	0.44
3:A:254:GLN:OE1	3:A:255:GLN:N	2.50	0.44
3:A:393:LEU:CD2	3:A:561:ARG:HA	2.46	0.44
3:A:525:ASP:OD1	3:A:526:TYR:CD1	2.70	0.44
3:A:598:VAL:HA	3:A:615:PRO:HG3	1.99	0.44
3:A:625:GLY:C	3:A:627:LEU:N	2.75	0.44
3:A:703:LEU:C	3:A:703:LEU:CD2	2.74	0.44
3:A:717:ILE:HD13	3:A:717:ILE:HG21	1.57	0.44
3:A:824:GLN:CD	3:A:824:GLN:N	2.75	0.44
3:A:868:ILE:HD12	3:A:868:ILE:HA	1.65	0.44
3:A:907:GLY:O	3:A:908:HIS:C	2.60	0.44
3:A:950:ASN:HD22	3:A:953:ASP:CG	2.25	0.44
3:A:1035:GLN:C	3:A:1037:LEU:N	2.62	0.44
4:B:15:ASN:O	4:B:16:LEU:O	2.35	0.44
4:B:107:ASP:O	4:B:108:GLU:C	2.59	0.44
4:B:180:ARG:O	4:B:181:LYS:C	2.60	0.44
4:B:318:ILE:HG12	6:E:438:ARG:NH1	2.30	0.44
4:B:361:ARG:N	4:B:391:LYS:HB2	2.27	0.44
4:B:496:LEU:C	4:B:511:ALA:HA	2.41	0.44
4:B:513:THR:HG21	4:B:515:LEU:CG	2.35	0.44
4:B:636:THR:N	4:B:784:SER:HB3	2.32	0.44
4:B:671:VAL:O	4:B:686:VAL:HG13	2.18	0.44
4:B:786:GLU:C	4:B:788:VAL:N	2.73	0.44
4:B:1009:GLN:HE22	4:B:1013:ARG:HE	1.64	0.44
4:B:1034:GLY:HA3	4:B:1076:VAL:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1175:GLN:HA	4:B:1178:GLU:OE1	2.18	0.44
5:C:140:PHE:CD2	5:C:141:ARG:O	2.68	0.44
5:C:218:VAL:N	5:C:219:ASP:OD1	2.49	0.44
6:E:42:PRO:O	6:E:42:PRO:CG	2.65	0.44
6:E:167:TRP:O	6:E:168:LEU:C	2.60	0.44
6:E:287:ALA:HA	6:E:290:GLN:CG	2.47	0.44
6:E:337:ILE:O	6:E:344:ARG:HB2	2.18	0.44
6:E:390:ASN:O	6:E:391:ARG:C	2.58	0.44
6:E:420:GLU:HA	6:E:423:ILE:HD11	1.83	0.44
6:E:444:PHE:CE1	6:E:493:ALA:N	2.85	0.44
6:E:502:THR:O	6:E:504:ARG:N	2.49	0.44
6:E:541:VAL:C	6:E:544:ALA:H	2.25	0.44
6:E:601:VAL:C	6:E:602:ILE:HG13	2.43	0.44
7:F:21:LEU:CD1	7:F:66:SER:HA	2.46	0.44
7:F:49:SER:O	7:F:50:ALA:C	2.61	0.44
8:G:95:LEU:HB3	8:G:99:GLU:OE1	2.18	0.44
8:G:133:TRP:C	8:G:135:GLU:H	2.26	0.44
8:G:170:ALA:O	8:G:174:MET:N	2.50	0.44
8:G:271:GLU:CG	8:G:272:LYS:N	2.80	0.44
8:G:336:VAL:C	8:G:338:ARG:N	2.75	0.44
8:G:379:PRO:O	8:G:383:SER:HB3	2.18	0.44
9:S:72:LEU:HA	9:S:75:GLU:HB3	1.99	0.44
9:T:12:ILE:HD13	9:T:36:ILE:CD1	2.41	0.44
9:T:30:SER:HB3	9:T:33:SER:HB3	1.98	0.44
9:T:34:ARG:N	9:T:50:ARG:NH2	2.65	0.44
9:T:52:ASN:ND2	9:T:56:LEU:O	2.51	0.44
9:T:88:LYS:NZ	9:T:90:PRO:HB3	2.32	0.44
9:T:105:LEU:HD12	9:T:108:VAL:CG1	2.48	0.44
9:T:123:VAL:HG21	9:V:223:VAL:HA	1.98	0.44
9:U:21:ALA:HB1	9:U:24:LYS:HZ3	1.82	0.44
9:U:278:MET:C	9:U:280:THR:N	2.73	0.44
9:V:69:LYS:C	9:V:72:LEU:HG	2.43	0.44
9:V:108:VAL:HG13	9:V:109:LEU:HD22	1.99	0.44
10:X:57:VAL:H	10:X:90:TYR:HA	1.81	0.44
10:Y:42:GLU:O	10:Y:43:ARG:C	2.61	0.44
1:1:18:DA:C4	1:1:19:DA:C4	3.05	0.44
3:A:231:GLU:O	3:A:235:LEU:HB3	2.17	0.44
3:A:443:LEU:O	3:A:443:LEU:HG	2.17	0.44
3:A:452:ARG:CZ	3:A:460:GLU:CD	2.90	0.44
3:A:598:VAL:HG22	3:A:659:ILE:HA	2.00	0.44
3:A:768:ILE:HD13	3:A:805:ARG:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:775:PRO:O	3:A:776:LYS:HD3	2.17	0.44
3:A:985:LEU:HA	3:A:985:LEU:HD12	1.40	0.44
3:A:1004:GLN:HE22	3:A:1042:SER:CA	2.31	0.44
4:B:225:MET:HG2	4:B:232:LEU:HD13	1.99	0.44
4:B:240:LEU:HA	4:B:264:ILE:CG2	2.48	0.44
4:B:263:PRO:HB2	4:B:301:TRP:HZ2	1.83	0.44
4:B:396:THR:CG2	4:B:403:HIS:HB2	2.48	0.44
4:B:396:THR:HG23	4:B:403:HIS:HD2	1.83	0.44
4:B:464:THR:HB	4:B:469:ASN:N	2.32	0.44
4:B:494:ALA:O	4:B:495:GLU:C	2.60	0.44
4:B:1029:LEU:HB3	4:B:1030:ALA:H	1.67	0.44
4:B:1030:ALA:HB1	4:B:1078:PRO:HB3	1.98	0.44
4:B:1220:LEU:HD12	4:B:1220:LEU:O	2.17	0.44
5:C:40:LEU:O	5:C:42:ARG:C	2.60	0.44
5:C:126:TYR:CE2	5:C:127:VAL:O	2.71	0.44
5:C:199:TRP:CD1	5:C:199:TRP:N	2.83	0.44
5:C:201:ASN:OD1	5:C:203:SER:N	2.27	0.44
5:D:34:THR:HG22	5:D:180:VAL:CG1	2.48	0.44
5:D:216:ILE:O	5:D:219:ASP:CG	2.61	0.44
6:E:9:PHE:CG	6:E:10:ASP:N	2.84	0.44
6:E:38:GLU:OE1	6:E:39:VAL:CG1	2.64	0.44
6:E:51:LYS:HB2	6:E:52:PRO:HD2	1.99	0.44
6:E:51:LYS:HE3	6:E:51:LYS:HB3	1.58	0.44
6:E:76:TYR:OH	6:E:87:GLU:HG3	2.18	0.44
6:E:275:LEU:HD13	6:E:275:LEU:HA	1.25	0.44
6:E:288:ARG:HA	6:E:288:ARG:HD2	1.66	0.44
6:E:576:VAL:HG12	6:E:578:THR:HG23	1.99	0.44
6:E:585:THR:HG22	6:E:592:ARG:CZ	2.47	0.44
8:G:263:ALA:HB1	8:G:268:MET:O	2.17	0.44
8:G:329:LEU:HB2	8:G:375:LYS:CE	2.48	0.44
8:G:359:ASN:HD22	8:G:364:ARG:HE	1.65	0.44
8:G:365:ILE:HG23	8:G:366:ARG:H	1.83	0.44
9:S:156:ASP:O	9:S:157:MET:HB3	2.17	0.44
9:S:178:ALA:O	9:S:259:ARG:NE	2.50	0.44
9:S:211:GLU:HA	9:S:215:ALA:O	2.18	0.44
9:T:72:LEU:HA	9:T:75:GLU:HB2	1.99	0.44
9:T:112:PHE:HD2	9:T:296:LEU:HB2	1.83	0.44
9:T:156:ASP:CA	9:T:294:TRP:HB2	2.46	0.44
9:U:54:SER:O	9:U:55:LYS:C	2.61	0.44
9:U:85:ILE:O	9:U:86:ALA:C	2.61	0.44
9:U:94:ILE:HD13	9:U:293:PHE:CB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:175:HIS:HB3	9:U:239:ILE:HD13	1.99	0.44
9:U:206:VAL:O	9:U:210:PHE:CD1	2.71	0.44
9:U:291:LYS:HG3	9:U:292:HIS:N	2.32	0.44
9:V:97:ILE:CB	9:V:274:ARG:NH1	2.20	0.44
9:V:109:LEU:HD13	9:V:109:LEU:HA	1.87	0.44
9:V:295:GLN:O	9:V:298:ARG:HB3	2.18	0.44
10:X:95:PHE:CZ	10:X:172:LEU:CD1	2.99	0.44
1:1:47:DT:H2"	1:1:48:DT:C6	2.53	0.44
1:1:99:DT:C2	8:G:212:TRP:HZ2	2.36	0.44
2:2:97:DG:C5'	9:S:155:ARG:CG	2.85	0.44
3:A:65:LEU:HD23	3:A:65:LEU:HA	1.81	0.44
3:A:255:GLN:O	3:A:258:ASP:CG	2.60	0.44
3:A:320:LEU:O	3:A:321:GLY:C	2.59	0.44
3:A:714:TYR:HB3	3:A:846:ILE:CG2	2.47	0.44
3:A:756:ILE:HA	3:A:756:ILE:HD12	1.57	0.44
3:A:884:LEU:HA	3:A:884:LEU:HD12	1.12	0.44
3:A:888:GLY:HA2	3:A:892:ARG:NH1	2.27	0.44
3:A:1004:GLN:HE22	3:A:1042:SER:C	2.22	0.44
3:A:1088:LYS:HB2	3:A:1091:THR:CG2	2.48	0.44
4:B:59:PRO:C	4:B:61:SER:N	2.71	0.44
4:B:100:GLY:C	4:B:102:SER:N	2.71	0.44
4:B:209:ILE:HG23	4:B:209:ILE:HD12	1.25	0.44
4:B:221:PRO:HD3	4:B:281:VAL:HG22	1.99	0.44
4:B:230:LYS:O	4:B:232:LEU:N	2.51	0.44
4:B:271:GLU:CD	4:B:272:ILE:H	2.26	0.44
4:B:359:LEU:HD11	4:B:385:MET:CA	2.47	0.44
4:B:488:TYR:HE1	4:B:879:LYS:HB3	1.81	0.44
4:B:564:ILE:C	4:B:565:THR:HG23	2.43	0.44
4:B:572:PHE:CZ	4:B:591:LEU:HB2	2.53	0.44
4:B:603:PHE:CD1	4:B:603:PHE:C	2.96	0.44
4:B:884:VAL:HG22	4:B:899:VAL:CG2	2.48	0.44
4:B:1153:ARG:O	4:B:1153:ARG:HD2	2.18	0.44
5:C:42:ARG:O	5:C:45:LEU:C	2.57	0.44
5:C:98:ARG:O	5:C:99:LEU:CB	2.65	0.44
5:C:198:VAL:HG21	5:C:206:PRO:HB3	2.00	0.44
5:D:17:ARG:HA	5:D:202:GLY:N	2.32	0.44
5:D:225:LYS:O	5:D:226:ASP:C	2.59	0.44
6:E:80:ARG:HE	8:G:346:GLY:N	2.16	0.44
6:E:125:ILE:HD13	6:E:125:ILE:HA	1.86	0.44
6:E:297:ILE:HG21	8:G:163:LEU:CD1	2.48	0.44
6:E:444:PHE:CZ	6:E:493:ALA:CB	2.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:269:THR:C	8:G:273:LEU:HD13	2.42	0.44
8:G:290:ILE:HG23	8:G:296:SER:CB	2.47	0.44
9:S:94:ILE:H	9:S:123:VAL:HA	1.82	0.44
9:S:208:GLU:CB	9:S:272:LEU:HD21	2.47	0.44
9:T:196:PHE:CG	9:T:197:LYS:N	2.73	0.44
9:T:214:GLU:HA	9:T:214:GLU:OE2	2.16	0.44
9:T:294:TRP:CE2	9:T:298:ARG:HD2	2.53	0.44
9:U:210:PHE:HB3	9:U:211:GLU:CD	2.43	0.44
9:U:280:THR:H	9:U:294:TRP:HD1	1.65	0.44
9:V:8:ALA:O	9:V:12:ILE:HB	2.18	0.44
9:V:9:PHE:CE2	9:V:59:GLY:CA	2.96	0.44
9:V:49:HIS:NE2	9:V:57:THR:CG2	2.80	0.44
9:V:64:LEU:N	9:V:65:PRO:HD2	2.33	0.44
9:V:104:TYR:CB	9:V:303:PRO:HD2	2.48	0.44
9:V:168:GLU:CG	9:V:260:PRO:HA	2.48	0.44
10:X:92:ALA:O	10:X:93:VAL:HG13	2.17	0.44
10:Y:58:TYR:CD2	10:Y:59:GLU:N	2.85	0.44
10:Y:92:ALA:O	10:Y:93:VAL:HG13	2.17	0.44
10:Y:210:ILE:C	10:Y:211:THR:HG22	2.43	0.44
1:1:46:DA:H2"	1:1:47:DT:C6	2.53	0.44
3:A:45:GLY:C	3:A:49:GLU:OE2	2.61	0.44
3:A:103:ASN:CG	3:A:105:GLU:O	2.61	0.44
3:A:111:GLU:CD	3:A:112:GLN:N	2.76	0.44
3:A:147:VAL:O	3:A:147:VAL:HG22	2.17	0.44
3:A:202:LEU:HD11	3:A:294:SER:OG	2.16	0.44
3:A:449:THR:HG22	3:A:535:VAL:C	2.42	0.44
3:A:596:GLY:C	3:A:615:PRO:HA	2.43	0.44
3:A:686:ILE:HD13	3:A:979:MET:HG2	1.96	0.44
3:A:698:TYR:CD2	3:A:698:TYR:O	2.71	0.44
3:A:873:TYR:HB2	3:A:874:LEU:H	1.60	0.44
3:A:885:ASN:OD1	3:A:888:GLY:N	2.39	0.44
3:A:902:LEU:HG	3:A:902:LEU:H	1.15	0.44
3:A:1021:GLU:HB2	6:E:441:ILE:HD13	1.80	0.44
3:A:1055:ILE:HG22	6:E:390:ASN:HD22	1.80	0.44
4:B:65:LEU:HD22	4:B:105:LEU:HA	1.98	0.44
4:B:120:ASN:ND2	4:B:122:VAL:HG22	2.32	0.44
4:B:250:HIS:HB3	4:B:277:VAL:HG21	1.98	0.44
4:B:266:ASP:CG	4:B:267:ASP:N	2.61	0.44
4:B:496:LEU:HD11	4:B:887:VAL:HG12	1.99	0.44
4:B:510:LEU:HB2	4:B:877:LEU:H	1.82	0.44
4:B:548:GLN:C	4:B:566:THR:HG21	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1147:GLN:O	4:B:1148:MET:C	2.56	0.44
4:B:1178:GLU:O	4:B:1182:ILE:HG23	2.17	0.44
5:C:5:GLN:CG	5:C:7:GLU:OE2	2.66	0.44
5:C:91:SER:O	5:C:92:SER:OG	2.30	0.44
5:C:129:THR:O	5:C:130:ILE:HB	2.18	0.44
5:C:205:SER:HB3	5:C:208:GLU:OE2	2.18	0.44
5:D:5:GLN:CG	5:D:7:GLU:OE2	2.66	0.44
6:E:105:TYR:HE1	6:E:250:PRO:HB3	1.81	0.44
6:E:152:ASN:HB2	6:E:156:LEU:O	2.18	0.44
6:E:377:ARG:HD2	6:E:450:GLU:CB	2.48	0.44
8:G:94:LEU:CD2	8:G:96:ARG:C	2.91	0.44
9:S:213:LEU:HD23	9:S:266:LEU:CG	2.48	0.44
9:T:167:ILE:CG2	9:T:206:VAL:HG22	2.47	0.44
9:T:168:GLU:OE2	9:T:244:SER:HB3	2.17	0.44
9:U:169:LEU:HG	9:U:170:LEU:N	2.31	0.44
9:U:188:LEU:HD11	9:U:193:GLN:HG2	1.99	0.44
9:U:194:VAL:HA	9:U:219:ALA:CB	2.44	0.44
9:U:297:VAL:N	9:U:301:ILE:HG13	2.33	0.44
9:V:103:SER:O	9:V:106:PRO:HD2	2.18	0.44
9:V:128:SER:OG	9:V:200:TYR:N	2.51	0.44
9:V:144:ILE:HG22	9:V:162:LEU:CD2	2.44	0.44
9:V:164:ASP:C	9:V:165:GLU:CG	2.77	0.44
9:V:202:MET:O	9:V:206:VAL:HB	2.18	0.44
9:V:230:ARG:H	9:V:233:VAL:CB	2.31	0.44
9:V:266:LEU:HD23	9:V:266:LEU:HA	1.84	0.44
9:V:267:PRO:C	9:V:268:GLU:HG2	2.42	0.44
10:X:69:LEU:HD11	10:X:73:SER:N	2.33	0.44
10:X:158:ARG:HG3	10:X:168:ILE:HG13	1.98	0.44
10:X:168:ILE:HD13	10:X:215:PRO:HD3	1.99	0.44
10:Y:44:VAL:CG2	10:Y:108:VAL:HG22	2.48	0.44
10:Y:183:ILE:HD12	10:Y:183:ILE:HA	1.66	0.44
3:A:81:VAL:HG22	3:A:129:ILE:HG21	1.98	0.44
3:A:105:GLU:O	3:A:106:THR:C	2.60	0.44
3:A:183:VAL:O	3:A:184:TRP:CG	2.71	0.44
3:A:257:LEU:HA	3:A:257:LEU:HD23	1.14	0.44
3:A:347:ILE:O	3:A:350:ARG:N	2.51	0.44
3:A:367:PRO:O	3:A:368:LYS:C	2.61	0.44
3:A:525:ASP:CG	3:A:526:TYR:CZ	2.96	0.44
3:A:571:ARG:HH11	3:A:676:GLU:CD	2.24	0.44
3:A:744:GLY:C	3:A:747:ALA:N	2.76	0.44
3:A:749:ARG:NE	3:A:750:GLN:CD	2.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:927:SER:O	3:A:930:ARG:CA	2.65	0.44
3:A:985:LEU:HG	3:A:986:VAL:N	2.19	0.44
3:A:1019:GLU:CA	3:A:1022:VAL:HG22	2.48	0.44
4:B:46:ARG:O	4:B:47:ALA:C	2.57	0.44
4:B:190:THR:CG2	4:B:191:ALA:N	2.80	0.44
4:B:359:LEU:CD1	4:B:384:ILE:C	2.77	0.44
4:B:587:VAL:CA	4:B:794:GLN:HE22	2.20	0.44
4:B:602:GLY:HA2	4:B:631:TRP:CZ2	2.53	0.44
4:B:794:GLN:CG	4:B:795:LEU:N	2.81	0.44
4:B:905:MET:CE	4:B:907:THR:HG22	2.47	0.44
4:B:988:VAL:HG12	4:B:992:ASP:OD2	2.18	0.44
4:B:1174:GLU:CD	4:B:1174:GLU:C	2.79	0.44
5:C:17:ARG:HB3	5:C:201:ASN:O	2.18	0.44
5:C:36:VAL:O	5:C:40:LEU:HD13	2.18	0.44
5:C:52:ALA:CB	5:C:170:PHE:CD1	3.01	0.44
5:C:56:VAL:HG11	5:C:79:ILE:HD12	2.00	0.44
5:D:124:THR:O	5:D:125:GLN:C	2.60	0.44
5:D:129:THR:O	5:D:130:ILE:HB	2.18	0.44
6:E:129:LEU:HD13	6:E:196:LEU:HB2	1.99	0.44
6:E:215:SER:O	6:E:217:LYS:HG3	2.17	0.44
6:E:289:LEU:O	6:E:290:GLN:O	2.35	0.44
6:E:316:ASN:ND2	6:E:322:THR:HB	2.33	0.44
6:E:535:PHE:HB3	6:E:540:ASP:OD2	2.18	0.44
7:F:52:ASP:O	7:F:60:ARG:NH1	2.51	0.44
8:G:89:ILE:O	8:G:92:ILE:HB	2.17	0.44
8:G:196:GLU:CG	8:G:197:LYS:H	2.26	0.44
8:G:197:LYS:C	8:G:198:PHE:O	2.57	0.44
8:G:219:THR:O	8:G:222:ILE:HG12	2.17	0.44
8:G:251:GLN:C	8:G:253:MET:N	2.76	0.44
8:G:319:ARG:NH2	8:G:344:ASP:OD1	2.51	0.44
9:S:85:ILE:N	9:S:89:GLN:HG2	2.25	0.44
9:S:201:GLY:O	9:S:202:MET:C	2.61	0.44
9:T:12:ILE:HD11	9:T:32:ILE:CG2	2.48	0.44
9:T:31:THR:O	9:T:32:ILE:C	2.60	0.44
9:T:91:GLU:HA	9:T:120:GLN:HB3	1.98	0.44
9:T:156:ASP:HB3	9:T:282:GLN:OE1	2.18	0.44
9:T:193:GLN:HE22	9:T:239:ILE:HG22	1.82	0.44
9:T:282:GLN:C	9:T:284:ARG:H	2.26	0.44
9:U:135:LEU:C	9:U:138:GLY:H	2.26	0.44
9:U:153:THR:HG21	9:U:282:GLN:CD	2.43	0.44
9:U:167:ILE:HD13	9:U:262:ALA:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:11:ALA:C	9:V:13:ALA:N	2.74	0.44
9:V:112:PHE:CD2	9:V:293:PHE:HB2	2.53	0.44
9:V:146:MET:HA	9:V:275:ARG:O	2.17	0.44
9:V:167:ILE:CA	9:V:262:ALA:HB3	2.45	0.44
9:V:206:VAL:HA	9:V:209:LYS:CB	2.46	0.44
9:V:221:LEU:HD12	9:V:222:GLU:N	2.32	0.44
10:X:126:LEU:HD22	10:Y:126:LEU:HG	1.99	0.44
10:X:167:GLY:HA3	10:X:212:VAL:O	2.18	0.44
1:1:29:DC:H2"	1:1:30:DT:OP1	2.16	0.43
2:2:80:DT:C7	9:S:34:ARG:HG3	2.48	0.43
2:2:97:DG:P	9:S:155:ARG:NH1	2.91	0.43
3:A:30:LEU:CD1	3:A:400:ARG:NH1	2.78	0.43
3:A:41:PHE:C	3:A:41:PHE:CD2	2.86	0.43
3:A:97:VAL:HA	3:A:98:PRO:HD3	1.71	0.43
3:A:506:PRO:HG2	3:A:507:GLN:N	2.32	0.43
3:A:545:LEU:HD12	3:A:548:ASP:HB2	1.98	0.43
3:A:580:ALA:HA	3:A:679:GLU:HA	2.00	0.43
3:A:609:ARG:NH1	3:A:609:ARG:HG3	2.29	0.43
3:A:688:VAL:HG21	3:A:977:ALA:HB3	2.00	0.43
3:A:756:ILE:CD1	3:A:770:VAL:HG21	2.48	0.43
3:A:768:ILE:HD11	3:A:805:ARG:CZ	2.48	0.43
3:A:782:PRO:HD2	3:A:785:GLU:HG2	2.00	0.43
3:A:821:THR:O	3:A:823:GLU:N	2.51	0.43
3:A:899:PHE:O	3:A:902:LEU:CB	2.65	0.43
3:A:901:CYS:HA	3:A:976:VAL:O	2.18	0.43
3:A:959:VAL:CG1	3:A:961:ASP:OD1	2.66	0.43
3:A:1017:PHE:CE2	6:E:351:GLY:HA2	2.53	0.43
3:A:1040:VAL:O	3:A:1041:LYS:CG	2.66	0.43
3:A:1052:LEU:O	3:A:1053:ASN:C	2.58	0.43
3:A:1070:PHE:CE2	4:B:1241:ILE:HG13	2.53	0.43
4:B:68:ALA:O	4:B:419:LYS:CB	2.66	0.43
4:B:78:VAL:HA	4:B:81:GLN:NE2	2.33	0.43
4:B:449:LEU:CA	4:B:990:ARG:HH12	2.31	0.43
4:B:646:LEU:HD22	4:B:663:ASP:H	1.82	0.43
4:B:820:PRO:CD	4:B:821:ASP:H	2.30	0.43
4:B:916:VAL:HG11	4:B:940:ILE:HG21	2.00	0.43
4:B:1052:ILE:O	4:B:1059:THR:HG23	2.18	0.43
4:B:1225:ILE:CD1	6:E:124:TYR:CE1	3.01	0.43
4:B:1246:PRO:HA	4:B:1251:TYR:CD1	2.53	0.43
5:D:126:TYR:CE2	5:D:127:VAL:O	2.71	0.43
5:D:173:VAL:HG13	5:D:173:VAL:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:218:VAL:CG1	5:D:219:ASP:H	2.31	0.43
6:E:45:ILE:HG23	6:E:45:ILE:H	1.14	0.43
6:E:56:GLY:O	6:E:59:CYS:N	2.46	0.43
6:E:112:VAL:HG21	6:E:310:VAL:HG11	2.00	0.43
6:E:227:ARG:O	6:E:230:VAL:HG22	2.18	0.43
6:E:498:LEU:HB2	6:E:504:ARG:O	2.18	0.43
6:E:624:ALA:O	6:E:625:SER:C	2.61	0.43
8:G:271:GLU:O	8:G:272:LYS:C	2.59	0.43
8:G:326:LEU:HD23	8:G:338:ARG:HG3	1.94	0.43
9:S:40:GLU:O	9:S:40:GLU:CD	2.61	0.43
9:T:117:PRO:HB3	9:T:289:PRO:HB3	2.00	0.43
9:T:170:LEU:HD22	9:T:229:PHE:CE1	2.53	0.43
9:U:132:LEU:HD11	9:U:150:PHE:CZ	2.53	0.43
9:V:73:GLU:C	9:V:75:GLU:N	2.75	0.43
9:V:161:VAL:O	9:V:298:ARG:HA	2.18	0.43
9:V:197:LYS:HE3	9:V:224:ASN:HD21	1.80	0.43
9:V:203:GLN:HA	9:V:206:VAL:N	2.17	0.43
9:V:282:GLN:NE2	9:V:283:ASP:H	2.13	0.43
10:X:33:THR:CA	10:X:91:HIS:CE1	2.98	0.43
10:X:39:ASP:O	10:X:88:ARG:CZ	2.66	0.43
10:X:58:TYR:CD1	10:X:89:PHE:CD2	3.06	0.43
10:X:69:LEU:HA	10:X:69:LEU:HD12	1.60	0.43
10:X:126:LEU:HD23	10:X:131:LEU:HD23	2.00	0.43
10:Y:131:LEU:O	10:Y:133:THR:N	2.48	0.43
1:1:12:DT:C4	2:2:114:DA:N1	2.86	0.43
3:A:73:LYS:HE2	3:A:73:LYS:HB2	1.81	0.43
3:A:79:TYR:CE2	3:A:84:ALA:HA	2.53	0.43
3:A:149:TYR:OH	3:A:315:ASP:HB3	2.18	0.43
3:A:180:ASN:HD21	3:A:182:LEU:HD22	1.82	0.43
3:A:187:ILE:O	3:A:187:ILE:HG23	2.17	0.43
3:A:200:LYS:N	3:A:233:GLU:HG2	2.32	0.43
3:A:236:MET:CE	3:A:240:ARG:CB	2.95	0.43
3:A:274:ARG:HG2	3:A:278:ASN:ND2	2.33	0.43
3:A:350:ARG:HH12	3:A:366:ASN:N	2.12	0.43
3:A:358:VAL:H	3:A:359:LEU:HD12	1.84	0.43
3:A:772:LYS:O	3:A:801:ASP:HB2	2.19	0.43
3:A:896:GLY:C	3:A:898:VAL:CG2	2.91	0.43
3:A:900:GLU:N	3:A:900:GLU:CD	2.64	0.43
4:B:165:GLU:HG2	4:B:166:GLY:O	2.18	0.43
4:B:209:ILE:HD13	4:B:209:ILE:HA	1.29	0.43
4:B:269:ALA:HA	4:B:272:ILE:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:270:LYS:HE3	4:B:274:LYS:CE	2.49	0.43
4:B:305:HIS:CD2	4:B:309:VAL:HA	2.53	0.43
4:B:318:ILE:HD13	6:E:438:ARG:CZ	2.31	0.43
4:B:374:GLU:O	4:B:375:ASP:HB3	2.18	0.43
4:B:497:VAL:N	4:B:510:LEU:O	2.44	0.43
4:B:572:PHE:CD2	4:B:591:LEU:HD13	2.52	0.43
4:B:616:LYS:CG	4:B:620:GLY:HA3	2.48	0.43
4:B:634:GLU:OE1	4:B:781:ARG:NH2	2.51	0.43
4:B:773:ARG:CB	4:B:792:ARG:HB3	2.43	0.43
4:B:820:PRO:HD2	4:B:821:ASP:H	1.82	0.43
4:B:1207:PHE:CD1	4:B:1208:ILE:HG12	2.52	0.43
5:C:56:VAL:HG22	5:C:58:ILE:HG12	1.98	0.43
5:C:217:LEU:CG	5:C:218:VAL:N	2.77	0.43
5:D:37:GLY:O	5:D:41:ARG:N	2.51	0.43
5:D:61:VAL:HG12	5:D:63:HIS:O	2.18	0.43
5:D:77:GLU:HA	5:D:80:MET:CB	2.48	0.43
5:D:91:SER:O	5:D:92:SER:OG	2.30	0.43
6:E:19:PRO:O	6:E:20:GLU:C	2.61	0.43
6:E:56:GLY:O	6:E:58:PHE:N	2.50	0.43
6:E:141:TYR:CD1	6:E:304:ARG:CG	3.01	0.43
6:E:174:ILE:O	6:E:175:TYR:C	2.62	0.43
6:E:224:LEU:HA	6:E:224:LEU:HD13	1.61	0.43
6:E:240:LYS:HB3	6:E:242:GLU:OE1	2.18	0.43
6:E:398:VAL:CG1	6:E:404:ALA:HB1	2.47	0.43
8:G:290:ILE:HG23	8:G:296:SER:HB2	2.00	0.43
9:S:16:GLY:O	9:S:20:LYS:HD2	2.18	0.43
9:S:39:LEU:C	9:S:41:ALA:H	2.26	0.43
9:S:70:ILE:HA	9:T:66:ARG:HG3	2.00	0.43
9:S:109:LEU:C	9:S:109:LEU:HD12	2.43	0.43
9:S:140:VAL:HB	9:S:143:ALA:HB2	2.00	0.43
9:T:26:GLY:O	9:T:27:VAL:HG23	2.18	0.43
9:T:116:TYR:HE1	10:Y:110:GLN:HG2	1.84	0.43
9:T:238:LEU:C	9:T:239:ILE:HG13	2.43	0.43
9:T:296:LEU:O	9:T:296:LEU:CG	2.66	0.43
9:U:94:ILE:HG12	9:U:290:ILE:HG23	2.00	0.43
9:U:146:MET:HE3	9:U:205:LEU:CB	2.43	0.43
9:U:204:ARG:CA	9:U:207:GLN:CD	2.77	0.43
1:1:20:DA:H2"	1:1:21:DC:C6	2.52	0.43
3:A:159:ARG:C	3:A:160:THR:CG2	2.91	0.43
3:A:424:PRO:HB2	3:A:514:GLN:HE21	1.82	0.43
3:A:504:ILE:HA	3:A:504:ILE:HD13	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:507:GLN:OE1	3:A:519:THR:CA	2.66	0.43
3:A:679:GLU:C	3:A:680:LEU:HG	2.22	0.43
3:A:702:ILE:HD13	3:A:702:ILE:HA	1.34	0.43
3:A:714:TYR:HB3	3:A:846:ILE:HG23	2.01	0.43
3:A:719:ILE:O	3:A:719:ILE:HG13	2.18	0.43
3:A:733:PRO:C	3:A:734:GLU:CD	2.87	0.43
3:A:772:LYS:HB3	3:A:803:SER:N	2.34	0.43
3:A:778:GLU:O	3:A:781:GLN:HG3	2.19	0.43
3:A:907:GLY:HA2	3:A:912:VAL:HG23	1.99	0.43
4:B:57:MET:CE	4:B:58:VAL:H	2.29	0.43
4:B:224:PRO:HB2	4:B:233:ILE:O	2.18	0.43
4:B:369:ARG:H	4:B:369:ARG:HG2	1.58	0.43
4:B:459:VAL:HG22	4:B:475:ALA:HB2	2.00	0.43
4:B:507:ASN:OD1	4:B:877:LEU:HB3	2.18	0.43
4:B:569:ASN:CG	4:B:591:LEU:HD21	2.44	0.43
4:B:613:LYS:NZ	4:B:776:TYR:CZ	2.84	0.43
4:B:639:VAL:N	4:B:682:ARG:O	2.51	0.43
4:B:678:ASN:HD21	4:B:682:ARG:NH2	2.13	0.43
4:B:687:LYS:HB3	4:B:739:ARG:HH11	1.83	0.43
4:B:693:MET:N	4:B:736:LEU:H	2.17	0.43
4:B:755:THR:HA	4:B:768:MET:HE2	1.99	0.43
4:B:829:ARG:HB2	4:B:831:GLN:NE2	2.32	0.43
4:B:910:ILE:HG12	4:B:910:ILE:O	2.17	0.43
4:B:980:LEU:HA	4:B:995:VAL:CA	2.28	0.43
4:B:1098:PHE:HZ	4:B:1106:VAL:HA	1.84	0.43
4:B:1179:ALA:C	4:B:1181:ALA:H	2.25	0.43
5:C:56:VAL:CG2	5:C:58:ILE:HG12	2.48	0.43
5:C:110:SER:H	5:C:124:THR:H	1.66	0.43
5:C:126:TYR:CZ	5:C:127:VAL:C	2.97	0.43
5:D:18:ASN:CG	5:D:199:TRP:CG	2.96	0.43
5:D:79:ILE:HD12	5:D:82:MET:HG3	1.99	0.43
5:D:126:TYR:CD1	5:D:127:VAL:N	2.87	0.43
6:E:42:PRO:O	6:E:43:GLU:CB	2.43	0.43
6:E:144:SER:HA	6:E:163:SER:HA	2.00	0.43
6:E:271:ASP:HB2	6:E:331:LEU:HD22	2.00	0.43
6:E:329:ARG:NH1	6:E:332:LYS:HE2	2.33	0.43
6:E:385:GLN:HA	6:E:388:VAL:HB	2.00	0.43
6:E:480:SER:CB	6:E:482:GLU:OE1	2.66	0.43
7:F:37:ASN:O	7:F:40:LYS:CG	2.67	0.43
7:F:59:LEU:HA	7:F:62:ILE:HG12	2.00	0.43
8:G:86:LEU:HD23	8:G:87:GLN:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:329:LEU:CB	8:G:375:LYS:HE3	2.47	0.43
8:G:333:GLU:HB2	8:G:337:LEU:CD1	2.46	0.43
9:S:9:PHE:CD1	9:S:10:LEU:N	2.86	0.43
9:S:70:ILE:HG21	9:T:70:ILE:CD1	2.46	0.43
9:S:161:VAL:HG11	9:S:275:ARG:CD	2.48	0.43
9:U:142:LEU:HA	9:U:279:VAL:CG1	2.48	0.43
9:U:144:ILE:HD11	9:U:301:ILE:HD12	2.00	0.43
9:V:9:PHE:CE1	9:V:63:LEU:HD13	2.53	0.43
9:V:158:VAL:CG2	9:V:281:THR:HA	2.48	0.43
9:V:241:LEU:CD1	9:V:241:LEU:C	2.86	0.43
9:V:295:GLN:HB3	9:V:298:ARG:NH2	2.24	0.43
10:Y:137:ILE:HA	10:Y:140:LEU:CG	2.48	0.43
1:1:20:DA:C2	2:2:105:DG:C6	3.01	0.43
2:2:82:DC:H2”	2:2:83:DG:C8	2.53	0.43
3:A:31:ILE:O	3:A:34:GLN:NE2	2.52	0.43
3:A:74:LEU:HD23	3:A:95:MET:HE1	1.99	0.43
3:A:93:VAL:HG22	3:A:94:GLN:O	2.18	0.43
3:A:122:MET:HA	3:A:127:THR:O	2.18	0.43
3:A:141:ILE:N	3:A:141:ILE:HD12	2.34	0.43
3:A:183:VAL:HG23	3:A:195:ALA:CB	2.48	0.43
3:A:280:LYS:O	3:A:281:LEU:C	2.50	0.43
3:A:281:LEU:HD13	3:A:281:LEU:HA	1.53	0.43
3:A:488:LEU:O	3:A:490:VAL:HB	2.19	0.43
3:A:552:ARG:NH2	3:A:892:ARG:CG	2.82	0.43
3:A:723:GLU:HB2	3:A:837:ARG:HA	2.01	0.43
3:A:725:GLU:OE2	3:A:835:VAL:CA	2.64	0.43
3:A:736:ILE:H	3:A:736:ILE:HG23	1.47	0.43
3:A:743:VAL:H	3:A:743:VAL:HG22	1.55	0.43
3:A:767:ASP:C	3:A:768:ILE:HD13	2.43	0.43
3:A:771:GLY:HA2	3:A:803:SER:CB	2.48	0.43
3:A:867:PRO:O	3:A:868:ILE:C	2.62	0.43
3:A:1066:THR:CB	3:A:1067:PRO:HD2	2.47	0.43
4:B:12:GLN:C	4:B:15:ASN:OD1	2.61	0.43
4:B:24:TYR:HB2	4:B:29:THR:HG23	1.82	0.43
4:B:55:ASP:C	4:B:57:MET:N	2.76	0.43
4:B:155:ILE:O	4:B:156:ASP:C	2.61	0.43
4:B:271:GLU:OE1	4:B:272:ILE:N	2.51	0.43
4:B:283:ARG:O	4:B:298:CYS:HA	2.18	0.43
4:B:412:ILE:HG23	4:B:413:VAL:H	1.82	0.43
4:B:439:GLU:N	4:B:1001:ARG:N	2.59	0.43
4:B:922:ILE:HG12	4:B:928:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:961:ASN:O	4:B:962:TYR:CD1	2.71	0.43
4:B:1133:GLY:C	4:B:1134:ILE:HG13	2.43	0.43
4:B:1155:ASP:O	4:B:1164:PRO:HA	2.17	0.43
4:B:1190:TYR:CD1	4:B:1190:TYR:N	2.82	0.43
4:B:1216:THR:O	4:B:1217:THR:C	2.62	0.43
5:C:5:GLN:CD	5:C:5:GLN:H	2.27	0.43
5:C:18:ASN:CG	5:C:199:TRP:CG	2.97	0.43
5:C:42:ARG:HH12	5:D:38:ASN:HD21	1.66	0.43
5:C:47:ASN:O	5:C:47:ASN:CG	2.58	0.43
5:C:58:ILE:O	5:C:60:GLY:N	2.52	0.43
5:C:126:TYR:CD1	5:C:127:VAL:N	2.87	0.43
5:C:141:ARG:HG3	5:C:155:ARG:HH11	1.83	0.43
5:D:3:GLN:C	5:D:5:GLN:HB3	2.43	0.43
5:D:110:SER:H	5:D:124:THR:H	1.66	0.43
5:D:141:ARG:HH21	5:D:155:ARG:HG3	1.84	0.43
6:E:18:SER:O	6:E:22:ILE:N	2.42	0.43
6:E:18:SER:HG	6:E:243:TRP:NE1	2.16	0.43
6:E:213:ILE:HD13	6:E:213:ILE:N	2.33	0.43
6:E:226:LYS:HD3	6:E:229:ARG:HH21	1.82	0.43
6:E:268:ALA:CA	8:G:283:PRO:HB2	2.48	0.43
6:E:269:THR:HG22	6:E:273:ASN:HD21	1.83	0.43
6:E:375:LEU:HB3	6:E:447:ILE:O	2.18	0.43
6:E:442:GLN:HB2	6:E:464:PHE:CE1	2.53	0.43
6:E:447:ILE:HG21	6:E:449:VAL:CG2	2.44	0.43
7:F:22:ILE:HA	7:F:31:ILE:HD13	1.99	0.43
8:G:107:ILE:CB	8:G:200:HIS:CE1	3.00	0.43
8:G:111:LEU:HD23	8:G:111:LEU:HA	1.73	0.43
8:G:115:ARG:C	8:G:119:ARG:NH2	2.76	0.43
8:G:159:VAL:HA	8:G:191:LEU:CD2	2.49	0.43
8:G:188:SER:C	8:G:190:GLY:N	2.72	0.43
8:G:193:ARG:HG3	8:G:213:TRP:CD2	2.53	0.43
8:G:253:MET:HB3	8:G:257:PRO:HA	1.99	0.43
8:G:321:ASP:C	8:G:323:GLU:N	2.76	0.43
9:S:142:LEU:HG	9:S:294:TRP:CD1	2.54	0.43
9:S:232:VAL:CG2	9:U:113:CYS:HB2	2.48	0.43
9:T:123:VAL:HB	9:V:222:GLU:O	2.19	0.43
9:U:65:PRO:O	9:U:66:ARG:C	2.60	0.43
9:V:91:GLU:HB3	9:V:284:ARG:HG3	1.99	0.43
9:V:177:LEU:HA	9:V:180:TYR:CD2	2.53	0.43
10:X:157:CYS:HB3	10:X:170:ILE:HA	2.00	0.43
1:1:26:DA:C5	2:2:101:DA:C6	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:145:PRO:CG	3:A:273:GLY:HA2	2.48	0.43
3:A:198:LEU:HD21	3:A:298:LEU:CD2	2.49	0.43
3:A:215:HIS:N	3:A:216:PRO:CD	2.82	0.43
3:A:294:SER:O	3:A:295:GLY:C	2.56	0.43
3:A:347:ILE:O	3:A:348:ARG:C	2.62	0.43
3:A:463:PHE:HB2	3:A:526:TYR:CB	2.46	0.43
3:A:470:ARG:NH2	3:A:500:ASN:C	2.74	0.43
3:A:672:GLY:O	3:A:673:SER:C	2.62	0.43
3:A:689:ALA:CB	3:A:974:ILE:CG2	2.71	0.43
3:A:698:TYR:O	3:A:698:TYR:CG	2.62	0.43
3:A:760:GLY:N	3:A:814:VAL:HG13	2.33	0.43
3:A:927:SER:O	3:A:931:ILE:HG13	2.18	0.43
3:A:932:VAL:C	3:A:934:GLY:N	2.68	0.43
3:A:935:LYS:O	3:A:936:LEU:C	2.56	0.43
3:A:981:LYS:C	3:A:982:LEU:HG	2.43	0.43
3:A:1017:PHE:CZ	3:A:1019:GLU:N	2.86	0.43
3:A:1038:LEU:HA	3:A:1038:LEU:HD13	1.12	0.43
4:B:10:LYS:O	4:B:13:LEU:HD12	2.17	0.43
4:B:71:GLU:O	4:B:74:ARG:HB2	2.18	0.43
4:B:80:TYR:CE1	4:B:86:THR:HA	2.53	0.43
4:B:234:LYS:HE2	4:B:270:LYS:HZ1	1.83	0.43
4:B:460:PRO:O	4:B:462:GLN:N	2.51	0.43
4:B:489:ASN:HA	4:B:895:ARG:HB2	1.98	0.43
4:B:812:LEU:O	4:B:834:ILE:CD1	2.66	0.43
4:B:846:ALA:HA	4:B:851:GLY:C	2.44	0.43
4:B:916:VAL:CG1	4:B:917:LYS:H	2.31	0.43
4:B:1128:VAL:CA	4:B:1131:SER:CB	2.86	0.43
4:B:1211:ALA:HB3	4:B:1220:LEU:HD23	2.00	0.43
5:C:3:GLN:C	5:C:5:GLN:HB3	2.43	0.43
5:C:57:ARG:CA	5:C:162:ASP:HB2	2.48	0.43
5:C:107:ILE:HG12	5:C:128:ALA:HB3	2.00	0.43
5:C:155:ARG:HG2	5:C:155:ARG:O	2.19	0.43
5:D:139:GLU:C	5:D:140:PHE:CD1	2.97	0.43
6:E:65:PRO:CG	6:E:96:SER:HA	2.39	0.43
6:E:164:GLU:HA	6:E:167:TRP:HB3	2.00	0.43
6:E:498:LEU:CA	6:E:505:PRO:HA	2.49	0.43
6:E:592:ARG:O	6:E:603:SER:HB2	2.18	0.43
7:F:42:ARG:HA	7:F:45:GLU:CD	2.43	0.43
8:G:100:GLU:O	8:G:200:HIS:CD2	2.71	0.43
8:G:374:ARG:O	8:G:381:ARG:HD3	2.19	0.43
9:S:81:LEU:HD22	9:S:86:ALA:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:92:LEU:HD12	9:S:121:LEU:HD23	2.00	0.43
9:S:238:LEU:HD21	9:U:113:CYS:HB3	2.00	0.43
9:T:26:GLY:O	9:T:27:VAL:CG2	2.67	0.43
9:T:162:LEU:H	9:T:276:VAL:CG2	2.22	0.43
9:T:167:ILE:HG12	9:T:241:LEU:CB	2.48	0.43
9:T:189:VAL:CG2	9:T:210:PHE:CE1	3.02	0.43
9:U:1:MET:HE3	9:U:1:MET:HB2	1.82	0.43
9:U:131:ALA:O	9:U:135:LEU:HB3	2.18	0.43
9:U:188:LEU:HD13	9:U:239:ILE:HB	2.00	0.43
9:U:279:VAL:CG1	9:U:281:THR:HG23	2.49	0.43
9:U:292:HIS:O	9:U:293:PHE:C	2.57	0.43
9:V:9:PHE:O	9:V:10:LEU:C	2.61	0.43
9:V:112:PHE:HB3	9:V:293:PHE:CD1	2.54	0.43
9:V:229:PHE:CD2	9:V:238:LEU:HD11	2.53	0.43
9:V:296:LEU:HD22	9:V:300:ASN:OD1	2.18	0.43
10:X:35:PHE:HE1	10:X:41:ALA:HB3	1.83	0.43
10:X:127:SER:CA	10:X:131:LEU:HB2	2.42	0.43
10:Y:39:ASP:O	10:Y:88:ARG:CZ	2.66	0.43
10:Y:62:GLU:O	10:Y:64:ILE:HG12	2.19	0.43
10:Y:144:ASP:O	10:Y:147:SER:OG	2.36	0.43
10:Y:158:ARG:HB2	10:Y:168:ILE:HG13	2.00	0.43
1:1:22:DG:H4'	2:2:107:DT:H5'	1.22	0.43
3:A:45:GLY:C	3:A:48:GLU:OE1	2.62	0.43
3:A:141:ILE:HD12	3:A:141:ILE:H	1.83	0.43
3:A:154:ASP:OD2	3:A:157:GLY:C	2.62	0.43
3:A:189:LYS:HD3	3:A:189:LYS:HA	1.68	0.43
3:A:237:GLU:O	3:A:242:LEU:HB2	2.18	0.43
3:A:328:VAL:H	3:A:328:VAL:HG22	1.43	0.43
3:A:684:GLN:NE2	3:A:684:GLN:N	2.67	0.43
3:A:737:THR:O	3:A:754:GLN:O	2.37	0.43
3:A:784:GLU:CG	8:G:322:LEU:HD22	2.39	0.43
3:A:787:LEU:HB2	3:A:791:ILE:HG12	1.99	0.43
3:A:819:LEU:HD12	3:A:819:LEU:HA	1.42	0.43
3:A:864:ARG:HG2	3:A:865:ILE:N	2.33	0.43
3:A:947:TRP:O	3:A:949:TYR:N	2.51	0.43
3:A:1001:VAL:H	3:A:1001:VAL:HG12	1.55	0.43
3:A:1021:GLU:O	3:A:1024:ALA:N	2.40	0.43
4:B:163:PHE:C	4:B:165:GLU:OE1	2.62	0.43
4:B:208:ILE:HB	4:B:210:ARG:NE	2.34	0.43
4:B:288:CYS:SG	4:B:288:CYS:O	2.72	0.43
4:B:623:VAL:HG21	4:B:772:GLN:CB	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:774:LEU:HD21	4:B:777:LYS:HZ1	1.83	0.43
4:B:1110:ALA:C	4:B:1112:HIS:N	2.75	0.43
5:C:25:LEU:O	5:C:27:PRO:HD2	2.18	0.43
5:C:52:ALA:HA	5:C:87:LEU:HD11	2.00	0.43
5:D:5:GLN:CD	5:D:5:GLN:H	2.27	0.43
6:E:227:ARG:HA	6:E:230:VAL:HG22	1.99	0.43
6:E:357:SER:CB	6:E:476:HIS:HA	2.49	0.43
6:E:412:ASP:CG	6:E:414:SER:HG	2.15	0.43
6:E:415:VAL:HG12	6:E:416:TRP:CA	2.48	0.43
8:G:362:ARG:O	8:G:365:ILE:HG22	2.19	0.43
9:S:136:LYS:NZ	9:S:136:LYS:HB2	2.34	0.43
9:S:148:ASN:C	9:S:149:ARG:HG3	2.43	0.43
9:S:195:VAL:HG21	9:S:217:LEU:CG	2.48	0.43
9:S:256:LEU:O	9:S:256:LEU:HD12	2.19	0.43
9:T:128:SER:CB	9:T:145:VAL:HA	2.47	0.43
9:T:162:LEU:CA	9:T:301:ILE:HG22	2.47	0.43
9:T:189:VAL:C	9:T:191:TYR:N	2.75	0.43
9:T:219:ALA:C	9:V:120:GLN:HG3	2.43	0.43
9:U:142:LEU:HB3	9:U:281:THR:N	2.18	0.43
9:U:168:GLU:CD	9:U:260:PRO:HG3	2.44	0.43
9:U:181:GLU:HB3	9:U:259:ARG:HE	1.83	0.43
9:U:206:VAL:CG2	9:U:274:ARG:HD2	2.46	0.43
9:U:300:ASN:O	9:U:303:PRO:HD2	2.18	0.43
9:V:104:TYR:HB3	9:V:303:PRO:HD2	1.99	0.43
9:V:261:LEU:O	9:V:264:SER:HB2	2.18	0.43
10:X:27:THR:HG23	10:X:98:VAL:O	2.19	0.43
10:Y:35:PHE:HE1	10:Y:41:ALA:HB3	1.84	0.43
1:1:22:DG:H2'	1:1:23:DC:C5	2.54	0.43
3:A:46:LEU:CG	3:A:47:ILE:N	2.81	0.43
3:A:65:LEU:HD23	3:A:101:LEU:O	2.19	0.43
3:A:88:ASP:OD1	3:A:132:GLY:HA2	2.18	0.43
3:A:130:ILE:N	3:A:133:ALA:O	2.51	0.43
3:A:358:VAL:O	3:A:359:LEU:C	2.61	0.43
3:A:488:LEU:HD21	3:A:524:VAL:C	2.42	0.43
3:A:497:VAL:O	3:A:497:VAL:HG23	2.19	0.43
3:A:519:THR:OG1	3:A:523:GLN:CD	2.62	0.43
3:A:547:HIS:O	3:A:548:ASP:OD1	2.35	0.43
3:A:552:ARG:NE	3:A:894:ASN:HB3	2.29	0.43
3:A:608:VAL:CB	3:A:615:PRO:HB2	2.49	0.43
3:A:633:GLN:NE2	3:A:633:GLN:HA	2.25	0.43
3:A:720:GLU:N	3:A:720:GLU:CD	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:737:THR:CA	3:A:773:VAL:HG21	2.48	0.43
3:A:816:ASP:OD2	3:A:839:TYR:OH	2.24	0.43
3:A:910:LEU:HD13	3:A:910:LEU:HA	1.89	0.43
3:A:929:ARG:NH2	3:A:933:HIS:NE2	2.63	0.43
3:A:932:VAL:HG22	3:A:933:HIS:ND1	2.33	0.43
3:A:1055:ILE:HG23	6:E:387:PHE:CD1	2.54	0.43
3:A:1064:PRO:O	3:A:1064:PRO:HG2	2.18	0.43
4:B:16:LEU:C	4:B:16:LEU:CD2	2.72	0.43
4:B:71:GLU:CD	4:B:71:GLU:H	2.26	0.43
4:B:106:LYS:HZ3	4:B:134:ILE:HG13	1.84	0.43
4:B:185:ASP:O	4:B:187:ALA:C	2.62	0.43
4:B:207:VAL:CA	4:B:208:ILE:HD12	2.49	0.43
4:B:231:THR:HG22	4:B:233:ILE:O	2.19	0.43
4:B:239:LEU:O	4:B:240:LEU:CG	2.67	0.43
4:B:359:LEU:HB3	4:B:393:GLY:C	2.44	0.43
4:B:359:LEU:O	4:B:391:LYS:C	2.61	0.43
4:B:459:VAL:HG13	4:B:475:ALA:HB2	1.99	0.43
4:B:508:GLY:H	4:B:510:LEU:CD1	2.32	0.43
4:B:560:ASN:OD1	4:B:560:ASN:N	2.50	0.43
4:B:617:ALA:O	4:B:776:TYR:CE1	2.71	0.43
4:B:618:LYS:HG2	4:B:619:LEU:N	2.34	0.43
4:B:847:ASP:C	4:B:849:THR:H	2.24	0.43
4:B:937:SER:C	4:B:969:GLY:O	2.62	0.43
4:B:979:VAL:O	4:B:996:LEU:N	2.51	0.43
4:B:1030:ALA:O	4:B:1031:LYS:C	2.61	0.43
4:B:1132:GLN:O	4:B:1133:GLY:C	2.59	0.43
4:B:1150:ASN:O	4:B:1169:GLU:HB2	2.19	0.43
4:B:1202:LEU:CD2	4:B:1215:GLU:OE2	2.62	0.43
5:C:42:ARG:O	5:C:43:VAL:C	2.60	0.43
5:C:48:LEU:CD2	5:C:173:VAL:HG12	2.49	0.43
5:C:99:LEU:CG	5:C:113:ASP:OD2	2.67	0.43
5:C:163:PHE:CG	5:C:163:PHE:O	2.72	0.43
5:C:218:VAL:CG1	5:C:219:ASP:H	2.31	0.43
5:D:32:GLN:O	5:D:33:GLY:C	2.62	0.43
5:D:56:VAL:HG11	5:D:164:LEU:HD23	2.00	0.43
5:D:126:TYR:CZ	5:D:127:VAL:C	2.97	0.43
6:E:52:PRO:CD	6:E:60:GLU:HB3	2.49	0.43
6:E:277:ARG:NH1	8:G:227:ARG:C	2.76	0.43
6:E:277:ARG:CD	8:G:228:THR:HG22	2.49	0.43
6:E:407:LEU:HD12	6:E:415:VAL:CG2	2.36	0.43
8:G:84:LEU:O	8:G:88:GLU:CD	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:206:PHE:HB2	8:G:210:ALA:CB	2.49	0.43
8:G:298:LEU:CG	8:G:299:GLY:N	2.82	0.43
9:S:72:LEU:C	9:S:75:GLU:H	2.27	0.43
9:S:178:ALA:HA	9:S:259:ARG:CB	2.49	0.43
9:T:33:SER:C	9:T:50:ARG:HH21	2.25	0.43
9:T:119:VAL:HG23	9:T:120:GLN:C	2.44	0.43
9:T:195:VAL:CG1	9:T:202:MET:SD	3.07	0.43
9:T:233:VAL:HG21	9:T:256:LEU:HD13	2.00	0.43
9:U:94:ILE:HG22	9:U:95:ALA:H	1.83	0.43
9:V:197:LYS:HB2	9:V:200:TYR:CD2	2.54	0.43
9:V:219:ALA:O	9:V:221:LEU:N	2.52	0.43
10:X:65:THR:O	10:X:67:ALA:N	2.52	0.43
10:X:123:LEU:CG	10:Y:123:LEU:HD23	2.47	0.43
10:X:138:GLU:OE1	10:Y:56:ARG:HD3	2.19	0.43
10:Y:49:LYS:HG2	10:Y:71:GLU:CB	2.48	0.43
1:1:101:DT:C5'	8:G:204:TYR:OH	2.67	0.43
2:2:73:DG:H2'	2:2:74:DT:H72	2.00	0.43
3:A:96:TYR:CE1	3:A:115:PHE:HD1	2.36	0.43
3:A:105:GLU:C	4:B:557:GLN:HB2	2.43	0.43
3:A:262:PHE:CD1	3:A:262:PHE:N	2.82	0.43
3:A:299:ALA:HA	3:A:302:ASP:OD2	2.19	0.43
3:A:422:ILE:HD12	3:A:422:ILE:HG23	1.70	0.43
3:A:423:HIS:HA	3:A:424:PRO:HD3	1.75	0.43
3:A:475:GLN:HB3	3:A:476:PRO:HD2	2.00	0.43
3:A:567:LEU:HD12	3:A:568:LYS:CB	2.48	0.43
3:A:571:ARG:NE	3:A:676:GLU:CD	2.75	0.43
3:A:618:SER:O	3:A:620:LYS:N	2.51	0.43
3:A:641:LYS:HA	3:A:652:ASN:HB2	2.00	0.43
3:A:787:LEU:O	3:A:791:ILE:HG12	2.17	0.43
3:A:885:ASN:HB2	3:A:886:PRO:CD	2.47	0.43
3:A:938:GLU:HG2	3:A:939:ALA:H	1.84	0.43
3:A:1044:ASP:O	3:A:1045:MET:C	2.60	0.43
3:A:1078:GLN:CA	3:A:1082:LEU:HB3	2.46	0.43
4:B:5:ASN:ND2	6:E:566:SER:HA	2.34	0.43
4:B:20:ALA:HB2	4:B:32:MET:HE1	2.01	0.43
4:B:53:VAL:O	4:B:56:LEU:N	2.36	0.43
4:B:59:PRO:C	4:B:61:SER:H	2.27	0.43
4:B:74:ARG:O	4:B:78:VAL:N	2.50	0.43
4:B:134:ILE:HG23	4:B:135:SER:N	2.34	0.43
4:B:220:ILE:HG21	4:B:1119:THR:HG21	1.99	0.43
4:B:235:LEU:C	4:B:237:THR:N	2.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:260:ARG:O	4:B:261:ASN:HB2	2.19	0.43
4:B:374:GLU:O	4:B:374:GLU:HG2	2.18	0.43
4:B:408:SER:HB2	4:B:410:ILE:HG12	2.01	0.43
4:B:541:THR:N	4:B:833:VAL:CG1	2.75	0.43
4:B:584:ASN:CG	4:B:585:GLY:H	2.27	0.43
4:B:741:VAL:CG1	4:B:742:VAL:N	2.80	0.43
4:B:1042:ASP:C	4:B:1044:ASP:H	2.27	0.43
4:B:1044:ASP:CG	4:B:1045:GLU:H	2.26	0.43
4:B:1216:THR:CA	4:B:1219:VAL:CG1	2.96	0.43
5:C:41:ARG:NH1	5:C:177:ASN:CA	2.82	0.43
5:C:52:ALA:HB3	5:C:170:PHE:CZ	2.53	0.43
5:C:220:LEU:HD12	5:C:221:PHE:N	2.33	0.43
5:D:57:ARG:CB	5:D:139:GLU:HB2	2.49	0.43
5:D:98:ARG:O	5:D:99:LEU:CB	2.65	0.43
6:E:57:LEU:HA	6:E:57:LEU:HD23	1.06	0.43
6:E:71:CYS:HB3	6:E:76:TYR:CG	2.54	0.43
6:E:202:LEU:HD22	6:E:231:ILE:HG12	2.01	0.43
6:E:220:LYS:O	6:E:221:ARG:C	2.62	0.43
6:E:259:MET:HE3	6:E:259:MET:HB3	1.91	0.43
6:E:379:MET:HE2	6:E:475:VAL:CB	2.44	0.43
6:E:596:ASP:O	6:E:597:ALA:C	2.62	0.43
7:F:43:ARG:HG2	7:F:47:PHE:HE1	1.83	0.43
8:G:103:LEU:O	8:G:104:ALA:C	2.62	0.43
8:G:221:ALA:C	8:G:223:ALA:H	2.25	0.43
8:G:315:LYS:O	8:G:319:ARG:N	2.45	0.43
9:S:99:SER:HA	9:S:243:PRO:CD	2.37	0.43
9:S:162:LEU:CD1	9:S:163:TYR:HD2	2.31	0.43
9:S:176:PRO:HA	9:S:179:ALA:HB3	1.99	0.43
9:T:135:LEU:HD12	9:T:143:ALA:H	1.83	0.43
9:T:146:MET:CB	9:T:274:ARG:NH2	2.61	0.43
9:T:244:SER:C	9:T:246:ALA:H	2.26	0.43
9:U:52:ASN:O	9:U:53:HIS:C	2.62	0.43
9:U:287:ILE:O	9:U:291:LYS:CB	2.66	0.43
9:V:71:CYS:O	9:V:75:GLU:HB2	2.19	0.43
9:V:193:GLN:CG	9:V:216:THR:HG1	2.19	0.43
9:V:196:PHE:O	9:V:203:GLN:HG2	2.19	0.43
9:V:209:LYS:HZ1	9:V:241:LEU:CD2	2.23	0.43
10:X:30:ARG:O	10:X:31:ASN:C	2.62	0.43
10:X:62:GLU:O	10:X:64:ILE:HG12	2.18	0.43
10:X:203:ILE:HG22	10:X:210:ILE:CG2	2.48	0.43
10:Y:35:PHE:O	10:Y:91:HIS:CG	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:47:LEU:HD22	10:Y:69:LEU:HG	2.00	0.43
10:Y:133:THR:O	10:Y:137:ILE:N	2.49	0.43
10:Y:153:LEU:O	10:Y:154:LEU:C	2.60	0.43
3:A:30:LEU:HD12	3:A:30:LEU:HA	1.72	0.43
3:A:199:LEU:CD2	3:A:227:GLY:CA	2.95	0.43
3:A:204:LEU:O	3:A:205:SER:C	2.62	0.43
3:A:410:LEU:C	3:A:411:THR:O	2.60	0.43
3:A:419:VAL:HG23	3:A:420:ARG:CG	2.40	0.43
3:A:657:VAL:O	3:A:657:VAL:HG13	2.19	0.43
3:A:679:GLU:CD	3:A:679:GLU:N	2.75	0.43
3:A:690:TYR:O	3:A:691:MET:CE	2.67	0.43
3:A:724:ILE:C	3:A:836:VAL:HB	2.43	0.43
3:A:726:ALA:O	3:A:833:ASN:CG	2.62	0.43
3:A:816:ASP:OD2	3:A:839:TYR:CZ	2.72	0.43
3:A:816:ASP:OD1	3:A:839:TYR:CE2	2.71	0.43
3:A:847:GLN:HG2	3:A:850:ASP:OD2	2.18	0.43
3:A:883:VAL:HG22	3:A:883:VAL:H	1.44	0.43
3:A:929:ARG:HE	3:A:933:HIS:HE1	1.63	0.43
4:B:184:VAL:HG23	4:B:185:ASP:N	2.32	0.43
4:B:199:ARG:CG	4:B:1214:GLN:NE2	2.64	0.43
4:B:281:VAL:CA	4:B:282:VAL:HG13	2.48	0.43
4:B:385:MET:HE2	4:B:408:SER:HA	2.00	0.43
4:B:422:GLN:O	4:B:424:LEU:HD23	2.19	0.43
4:B:442:VAL:C	4:B:999:PHE:CD2	2.97	0.43
4:B:575:ARG:N	4:B:588:VAL:O	2.52	0.43
4:B:618:LYS:HE2	4:B:619:LEU:HD21	2.01	0.43
4:B:921:LEU:HD23	4:B:939:GLN:CG	2.48	0.43
4:B:941:VAL:N	4:B:965:THR:O	2.51	0.43
4:B:980:LEU:HD23	4:B:980:LEU:H	1.83	0.43
4:B:1018:LEU:HA	4:B:1018:LEU:HD23	1.21	0.43
4:B:1071:MET:N	4:B:1072:PRO:HD3	2.34	0.43
4:B:1202:LEU:CG	4:B:1215:GLU:CD	2.92	0.43
4:B:1212:SER:HB3	6:E:345:PHE:CE2	2.53	0.43
5:C:40:LEU:O	5:C:44:LEU:N	2.48	0.43
5:C:68:VAL:HA	5:C:69:PRO:HD2	1.68	0.43
5:D:17:ARG:HB3	5:D:201:ASN:O	2.18	0.43
5:D:18:ASN:ND2	5:D:199:TRP:CD2	2.87	0.43
5:D:113:ASP:C	5:D:114:LEU:HG	2.42	0.43
6:E:85:VAL:HG12	6:E:92:GLU:CG	2.48	0.43
6:E:129:LEU:O	6:E:130:ASP:C	2.61	0.43
6:E:211:GLU:HG3	6:E:211:GLU:H	1.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:327:ASN:OD1	6:E:329:ARG:HB2	2.18	0.43
6:E:358:GLY:N	6:E:475:VAL:O	2.50	0.43
6:E:377:ARG:C	6:E:379:MET:N	2.77	0.43
6:E:588:TYR:O	6:E:590:TYR:N	2.51	0.43
8:G:88:GLU:HG2	8:G:89:ILE:HG13	2.00	0.43
8:G:114:GLU:O	8:G:116:VAL:C	2.58	0.43
8:G:262:ILE:O	8:G:265:ARG:HB3	2.18	0.43
8:G:323:GLU:O	8:G:326:LEU:HB3	2.19	0.43
9:S:63:LEU:C	9:S:65:PRO:HD2	2.43	0.43
9:S:93:CYS:H	9:S:141:ASP:HB2	1.83	0.43
9:T:156:ASP:OD2	9:T:285:LEU:C	2.61	0.43
9:T:189:VAL:HG13	9:T:193:GLN:OE1	2.17	0.43
9:T:274:ARG:HH22	9:T:276:VAL:HG11	1.72	0.43
9:U:5:GLN:HA	9:U:32:ILE:CD1	2.48	0.43
9:U:39:LEU:C	9:U:41:ALA:N	2.77	0.43
9:U:181:GLU:O	9:U:183:VAL:N	2.51	0.43
9:U:191:TYR:O	9:U:192:PRO:C	2.60	0.43
9:U:196:PHE:O	9:U:203:GLN:HG2	2.18	0.43
9:U:204:ARG:HB2	9:U:208:GLU:CG	2.48	0.43
9:U:291:LYS:O	9:U:295:GLN:N	2.44	0.43
9:V:60:GLY:C	9:V:63:LEU:H	2.27	0.43
9:V:104:TYR:HD1	9:V:104:TYR:H	1.66	0.43
9:V:200:TYR:HB3	9:V:203:GLN:CA	2.49	0.43
9:V:215:ALA:O	9:V:216:THR:C	2.62	0.43
10:X:40:PRO:HA	10:X:88:ARG:NH1	2.34	0.43
10:X:75:PHE:HA	10:X:129:ARG:CZ	2.49	0.43
10:X:133:THR:HG22	10:X:137:ILE:HD11	2.01	0.43
10:X:139:THR:HA	10:X:142:HIS:CE1	2.54	0.43
10:X:168:ILE:O	10:X:168:ILE:CG2	2.66	0.43
10:Y:40:PRO:HA	10:Y:88:ARG:NH1	2.34	0.43
10:Y:69:LEU:HD11	10:Y:73:SER:N	2.33	0.43
10:Y:146:GLY:HA2	10:Y:149:LEU:CD1	2.43	0.43
1:1:12:DT:C6	2:2:114:DA:C2	3.07	0.43
2:2:98:DA:C2'	2:2:99:DA:C8	3.01	0.43
3:A:255:GLN:C	3:A:258:ASP:OD1	2.61	0.43
3:A:289:VAL:HG22	3:A:291:VAL:O	2.19	0.43
3:A:395:GLU:O	3:A:396:LEU:O	2.37	0.43
3:A:402:LEU:HD12	3:A:402:LEU:O	2.19	0.43
3:A:498:ASP:CG	3:A:499:GLU:O	2.62	0.43
3:A:547:HIS:ND1	3:A:899:PHE:CE2	2.86	0.43
3:A:599:VAL:HG23	3:A:615:PRO:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:864:ARG:CG	3:A:865:ILE:N	2.81	0.43
3:A:959:VAL:O	3:A:968:PHE:HB2	2.19	0.43
4:B:18:SER:O	4:B:20:ALA:N	2.51	0.43
4:B:59:PRO:O	4:B:62:LYS:N	2.41	0.43
4:B:120:ASN:HB3	4:B:123:TYR:CB	2.49	0.43
4:B:204:SER:O	4:B:316:GLY:HA3	2.19	0.43
4:B:277:VAL:HG12	4:B:278:ALA:H	1.84	0.43
4:B:550:THR:N	4:B:566:THR:HG23	2.20	0.43
4:B:641:LYS:HB2	4:B:645:LEU:HD11	2.00	0.43
4:B:799:ILE:HB	4:B:813:ALA:CB	2.46	0.43
4:B:910:ILE:HG13	4:B:912:ALA:HB3	2.00	0.43
4:B:940:ILE:HA	4:B:966:ILE:CB	2.48	0.43
4:B:1232:LEU:O	4:B:1233:ARG:C	2.61	0.43
5:C:55:ALA:HA	5:C:165:GLN:CA	2.42	0.43
5:D:181:GLU:OE1	5:D:195:LEU:HD12	2.18	0.43
5:D:184:ARG:O	5:D:185:ALA:C	2.62	0.43
6:E:61:ARG:HE	6:E:72:HIS:CB	2.30	0.43
6:E:138:GLN:NE2	6:E:143:ASN:HB2	2.34	0.43
6:E:209:LEU:O	6:E:213:ILE:HG12	2.19	0.43
6:E:284:ASN:O	6:E:285:ARG:C	2.62	0.43
8:G:300:ASP:HB2	8:G:301:PHE:CE2	2.53	0.43
8:G:354:ILE:CG2	8:G:365:ILE:HD12	2.49	0.43
8:G:378:HIS:NE2	10:X:57:VAL:CG2	2.82	0.43
9:S:12:ILE:O	9:S:13:ALA:C	2.62	0.43
9:S:60:GLY:HA2	9:S:63:LEU:CB	2.42	0.43
9:S:112:PHE:CE2	9:S:119:VAL:HB	2.54	0.43
9:S:161:VAL:HG23	9:S:161:VAL:O	2.19	0.43
9:S:213:LEU:HD13	9:S:264:SER:OG	2.13	0.43
9:T:2:ARG:CZ	9:T:39:LEU:CD2	2.96	0.43
9:T:197:LYS:HG3	9:T:200:TYR:CD2	2.50	0.43
9:U:287:ILE:O	9:U:291:LYS:HB3	2.19	0.43
10:X:114:GLU:OE2	10:X:115:ASN:ND2	2.52	0.43
10:X:119:SER:O	10:X:122:MET:HB2	2.19	0.43
10:Y:42:GLU:H	10:Y:42:GLU:HG3	1.68	0.43
10:Y:114:GLU:OE2	10:Y:115:ASN:ND2	2.52	0.43
10:Y:154:LEU:HD13	10:Y:215:PRO:HB3	2.01	0.43
1:1:30:DT:H1'	1:1:31:DC:H5'	2.01	0.42
3:A:620:LYS:O	3:A:621:SER:C	2.62	0.42
3:A:895:VAL:HG22	3:A:896:GLY:HA2	2.00	0.42
3:A:896:GLY:O	3:A:899:PHE:CA	2.58	0.42
3:A:898:VAL:O	3:A:901:CYS:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:948:VAL:O	3:A:948:VAL:HG12	2.19	0.42
3:A:959:VAL:CG1	3:A:968:PHE:HB2	2.48	0.42
3:A:964:THR:O	3:A:964:THR:CG2	2.66	0.42
3:A:985:LEU:HD23	3:A:987:ASP:HB3	2.01	0.42
3:A:990:ILE:HA	3:A:990:ILE:HD12	1.80	0.42
3:A:1044:ASP:OD2	3:A:1046:GLN:NE2	2.52	0.42
4:B:18:SER:O	4:B:19:TRP:C	2.62	0.42
4:B:37:LYS:HB3	6:E:509:PRO:HB3	2.01	0.42
4:B:61:SER:O	4:B:62:LYS:C	2.62	0.42
4:B:77:GLU:CG	4:B:90:ARG:HH12	1.98	0.42
4:B:91:PHE:O	4:B:92:GLN:C	2.60	0.42
4:B:251:PRO:C	4:B:253:THR:HG1	2.09	0.42
4:B:266:ASP:O	4:B:269:ALA:CA	2.64	0.42
4:B:266:ASP:O	4:B:269:ALA:CB	2.67	0.42
4:B:280:VAL:CG2	4:B:281:VAL:N	2.81	0.42
4:B:512:GLU:HG2	4:B:514:LYS:CA	2.49	0.42
4:B:636:THR:H	4:B:784:SER:HB3	1.83	0.42
4:B:818:LEU:CA	4:B:819:ILE:HD12	2.49	0.42
5:C:119:GLU:OE1	5:C:120:VAL:C	2.62	0.42
5:C:172:PRO:C	5:C:200:THR:OG1	2.62	0.42
5:C:196:LEU:O	5:C:196:LEU:HG	2.03	0.42
5:C:206:PRO:C	5:C:209:ALA:H	2.28	0.42
5:D:99:LEU:CG	5:D:113:ASP:OD2	2.66	0.42
6:E:54:MET:HB3	6:E:55:ASP:H	1.55	0.42
6:E:74:GLY:C	6:E:76:TYR:N	2.76	0.42
6:E:131:MET:O	6:E:132:PRO:C	2.63	0.42
6:E:154:GLU:HG2	6:E:179:SER:C	2.44	0.42
6:E:389:ILE:HA	6:E:392:LEU:HD21	1.99	0.42
8:G:142:PRO:O	8:G:145:ARG:HB2	2.19	0.42
8:G:150:ILE:HD13	8:G:150:ILE:HA	1.78	0.42
8:G:284:ILE:CG2	8:G:285:SER:N	2.81	0.42
8:G:325:VAL:HG11	8:G:384:VAL:HG12	2.01	0.42
9:S:107:PRO:O	9:S:110:GLN:HB3	2.19	0.42
9:S:205:LEU:HD22	9:S:274:ARG:HA	1.81	0.42
9:S:281:THR:HG23	9:T:51:THR:HG21	2.00	0.42
9:T:167:ILE:HB	9:T:274:ARG:CD	2.47	0.42
9:T:196:PHE:HB3	9:T:200:TYR:HB2	2.00	0.42
9:U:93:CYS:HB3	9:U:122:ARG:O	2.18	0.42
9:U:142:LEU:HA	9:U:279:VAL:CB	2.47	0.42
9:U:247:LEU:HD12	9:U:251:ARG:CB	2.48	0.42
9:V:9:PHE:O	9:V:12:ILE:HG22	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:92:LEU:HD22	9:V:294:TRP:CA	2.48	0.42
9:V:191:TYR:HB3	9:V:192:PRO:HD2	1.99	0.42
9:V:280:THR:HG22	9:V:294:TRP:HE1	1.84	0.42
10:X:133:THR:HG22	10:X:137:ILE:CD1	2.49	0.42
10:X:200:LYS:O	10:X:200:LYS:HG3	2.19	0.42
10:Y:25:VAL:HB	10:Y:101:LEU:HA	2.01	0.42
10:Y:98:VAL:HG12	10:Y:100:LEU:CD1	2.48	0.42
10:Y:207:LYS:C	10:Y:209:LYS:H	2.27	0.42
1:1:12:DT:H2"	9:V:33:SER:HB3	2.01	0.42
2:2:80:DT:H2"	9:S:34:ARG:NE	2.33	0.42
3:A:148:TYR:C	3:A:164:SER:HG	2.13	0.42
3:A:357:GLU:HG2	3:A:358:VAL:HG22	2.00	0.42
3:A:889:VAL:O	3:A:890:PRO:C	2.62	0.42
3:A:894:ASN:O	3:A:897:GLN:OE1	2.38	0.42
3:A:913:ARG:NH1	3:A:914:PHE:H	2.17	0.42
3:A:1017:PHE:CD2	3:A:1017:PHE:O	2.72	0.42
3:A:1073:LEU:HA	3:A:1076:GLU:OE2	2.20	0.42
4:B:174:ILE:HA	4:B:177:TYR:CE2	2.54	0.42
4:B:594:ASP:HA	4:B:597:ARG:HD3	2.00	0.42
4:B:677:LYS:HZ2	4:B:682:ARG:HD2	1.82	0.42
4:B:713:GLU:OE1	4:B:717:GLN:N	2.52	0.42
4:B:801:GLN:HB2	4:B:807:HIS:NE2	2.35	0.42
4:B:866:VAL:HB	4:B:869:SER:HB2	2.00	0.42
4:B:993:ASN:C	4:B:994:LEU:HD23	2.44	0.42
4:B:1210:ALA:HB1	4:B:1219:VAL:CG2	2.48	0.42
5:C:18:ASN:ND2	5:C:199:TRP:CD2	2.87	0.42
5:C:67:THR:OG1	5:C:69:PRO:HD3	2.19	0.42
5:C:90:TYR:O	5:C:91:SER:C	2.62	0.42
5:C:108:THR:H	5:C:108:THR:HG23	1.53	0.42
5:C:139:GLU:C	5:C:140:PHE:CD1	2.97	0.42
5:C:171:MET:HB3	5:C:174:ARG:HH22	1.85	0.42
5:D:119:GLU:OE1	5:D:120:VAL:C	2.62	0.42
5:D:123:PRO:C	5:D:124:THR:HG23	2.45	0.42
6:E:76:TYR:CE2	6:E:84:ILE:CG1	3.01	0.42
6:E:287:ALA:O	6:E:290:GLN:CG	2.67	0.42
6:E:295:PRO:HG3	8:G:159:VAL:CG1	2.48	0.42
6:E:414:SER:O	6:E:415:VAL:C	2.60	0.42
6:E:459:LEU:HA	6:E:459:LEU:HD12	1.29	0.42
6:E:575:LYS:H	6:E:587:LEU:H	1.68	0.42
7:F:44:TYR:HA	7:F:47:PHE:CZ	2.54	0.42
7:F:51:GLU:C	7:F:54:MET:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:300:ASP:O	8:G:301:PHE:CD1	2.72	0.42
9:S:29:GLN:NE2	9:S:29:GLN:N	2.68	0.42
9:S:70:ILE:O	9:T:66:ARG:HD3	2.19	0.42
9:S:193:GLN:NE2	9:S:194:VAL:O	2.52	0.42
9:S:226:LEU:O	9:S:229:PHE:HB2	2.19	0.42
9:S:277:VAL:CG1	9:S:279:VAL:CG2	2.97	0.42
9:T:105:LEU:HB2	9:T:300:ASN:OD1	2.19	0.42
9:T:119:VAL:HG22	9:T:121:LEU:HA	2.01	0.42
9:U:142:LEU:HD11	9:U:294:TRP:CB	2.49	0.42
9:U:204:ARG:CA	9:U:207:GLN:NE2	2.82	0.42
9:U:223:VAL:HG23	9:U:225:THR:HG23	2.01	0.42
9:V:43:LEU:O	9:V:43:LEU:HG	2.19	0.42
9:V:108:VAL:HG22	9:V:293:PHE:CZ	2.34	0.42
9:V:162:LEU:CD1	9:V:276:VAL:HG13	2.49	0.42
9:V:196:PHE:HE2	9:V:206:VAL:HG21	1.73	0.42
10:X:33:THR:CA	10:X:91:HIS:HE1	2.30	0.42
2:2:97:DG:P	9:S:155:ARG:HH11	2.39	0.42
2:2:104:DC:H2'	2:2:105:DG:C8	2.54	0.42
3:A:35:ARG:O	3:A:38:PHE:N	2.52	0.42
3:A:97:VAL:N	3:A:113:GLU:OE2	2.49	0.42
3:A:457:GLY:O	3:A:458:PHE:C	2.62	0.42
3:A:736:ILE:HG21	3:A:834:MET:HE2	2.02	0.42
3:A:1001:VAL:CG1	3:A:1002:THR:N	2.77	0.42
3:A:1020:MET:N	3:A:1020:MET:SD	2.91	0.42
4:B:12:GLN:O	4:B:16:LEU:CB	2.65	0.42
4:B:42:ARG:NH1	4:B:43:TYR:HE1	2.17	0.42
4:B:109:VAL:HG21	4:B:141:VAL:CG2	2.49	0.42
4:B:193:SER:O	4:B:196:LEU:HB2	2.19	0.42
4:B:224:PRO:HB3	4:B:235:LEU:HB2	2.01	0.42
4:B:325:GLU:O	4:B:328:THR:HG22	2.19	0.42
4:B:357:ILE:CA	4:B:410:ILE:HG22	2.48	0.42
4:B:443:LYS:HE2	4:B:997:LEU:HD13	2.00	0.42
4:B:486:GLU:HB2	4:B:488:TYR:OH	2.20	0.42
4:B:487:VAL:N	4:B:987:LEU:HD23	2.34	0.42
4:B:538:GLU:HG3	4:B:540:ILE:CG1	2.42	0.42
4:B:597:ARG:CG	4:B:788:VAL:CG2	2.97	0.42
4:B:680:ILE:HG21	4:B:680:ILE:HD13	1.71	0.42
4:B:775:PRO:CG	4:B:790:LEU:HA	2.50	0.42
4:B:971:PRO:O	4:B:972:TYR:CD1	2.72	0.42
4:B:1174:GLU:HA	4:B:1177:ASN:CG	2.44	0.42
4:B:1227:GLY:O	4:B:1229:SER:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:57:ARG:CG	5:C:162:ASP:OD2	2.67	0.42
5:D:215:GLY:CA	5:D:218:VAL:HG12	2.47	0.42
6:E:30:LEU:HB2	6:E:31:PRO:HD2	2.01	0.42
6:E:86:CYS:HB3	6:E:89:CYS:HB3	2.01	0.42
6:E:277:ARG:HH12	8:G:227:ARG:CA	2.32	0.42
6:E:391:ARG:O	6:E:394:ARG:HB3	2.19	0.42
6:E:541:VAL:O	6:E:545:PHE:N	2.52	0.42
8:G:100:GLU:HG2	8:G:200:HIS:CD2	2.54	0.42
8:G:111:LEU:CA	8:G:115:ARG:HE	2.31	0.42
8:G:214:ILE:HG23	8:G:214:ILE:HD12	1.71	0.42
8:G:222:ILE:O	8:G:225:GLN:O	2.36	0.42
9:S:88:LYS:HB3	9:S:91:GLU:CG	2.49	0.42
9:S:195:VAL:HG12	9:S:219:ALA:HB2	2.01	0.42
9:S:197:LYS:HZ3	9:S:197:LYS:HG2	1.60	0.42
9:S:206:VAL:HG11	9:S:241:LEU:CD1	2.49	0.42
9:S:283:ASP:OD1	9:T:48:PHE:HB3	2.19	0.42
9:T:294:TRP:CE3	9:T:294:TRP:HA	2.53	0.42
9:U:146:MET:HB3	9:U:201:GLY:C	2.44	0.42
9:U:221:LEU:HB3	9:U:229:PHE:CE2	2.55	0.42
9:U:290:ILE:HD12	9:U:290:ILE:N	2.34	0.42
9:V:116:TYR:CE2	9:V:289:PRO:HD3	2.54	0.42
9:V:196:PHE:HA	9:V:223:VAL:C	2.45	0.42
9:V:209:LYS:NZ	9:V:241:LEU:HD11	2.35	0.42
10:Y:65:THR:O	10:Y:67:ALA:N	2.52	0.42
10:Y:114:GLU:CD	10:Y:115:ASN:ND2	2.77	0.42
10:Y:208:LYS:C	10:Y:210:ILE:HG13	2.44	0.42
10:Y:210:ILE:HD13	10:Y:210:ILE:HG21	1.84	0.42
1:1:59:DT:OP2	1:1:59:DT:H6	2.02	0.42
3:A:42:LEU:C	3:A:44:GLU:N	2.77	0.42
3:A:86:ARG:HA	3:A:818:ARG:HH12	1.84	0.42
3:A:86:ARG:O	3:A:818:ARG:NH1	2.53	0.42
3:A:147:VAL:HG23	3:A:165:LEU:CB	2.48	0.42
3:A:152:GLU:CD	3:A:161:TYR:C	2.88	0.42
3:A:232:GLU:HA	3:A:236:MET:CB	2.46	0.42
3:A:234:ALA:C	3:A:238:LEU:HD12	2.44	0.42
3:A:274:ARG:HH12	3:A:286:PRO:C	2.28	0.42
3:A:280:LYS:C	3:A:282:ARG:H	2.25	0.42
3:A:335:GLN:NE2	3:A:336:VAL:N	2.67	0.42
3:A:385:GLN:HG3	3:A:398:HIS:HE2	1.83	0.42
3:A:402:LEU:C	3:A:402:LEU:CD1	2.78	0.42
3:A:506:PRO:CG	3:A:507:GLN:H	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:531:PRO:O	3:A:532:VAL:HG23	2.18	0.42
3:A:607:ARG:O	3:A:607:ARG:NE	2.52	0.42
3:A:615:PRO:O	3:A:616:THR:C	2.63	0.42
3:A:690:TYR:O	3:A:691:MET:CG	2.64	0.42
3:A:717:ILE:C	3:A:718:HIS:CD2	2.98	0.42
3:A:717:ILE:HA	3:A:842:GLN:O	2.20	0.42
3:A:762:TRP:CZ2	3:A:811:LYS:CE	2.98	0.42
3:A:782:PRO:HD2	3:A:785:GLU:HB2	2.01	0.42
3:A:786:LYS:CG	8:G:340:ARG:HH12	2.33	0.42
3:A:1006:LEU:O	3:A:1006:LEU:CG	2.67	0.42
3:A:1016:ARG:CZ	6:E:353:ARG:NH1	2.83	0.42
3:A:1055:ILE:HD11	6:E:387:PHE:CE1	2.19	0.42
3:A:1068:GLU:O	3:A:1070:PHE:C	2.63	0.42
4:B:13:LEU:O	4:B:14:ARG:O	2.37	0.42
4:B:86:THR:HG23	4:B:89:GLU:OE2	2.19	0.42
4:B:199:ARG:O	4:B:202:ASP:HB2	2.20	0.42
4:B:235:LEU:HD13	4:B:239:LEU:HD11	1.98	0.42
4:B:246:GLU:OE2	4:B:281:VAL:C	2.62	0.42
4:B:602:GLY:HA2	4:B:631:TRP:CE2	2.55	0.42
4:B:622:GLU:CD	4:B:624:VAL:H	2.17	0.42
4:B:975:SER:HB3	4:B:997:LEU:CD1	2.50	0.42
4:B:1032:ARG:CD	4:B:1078:PRO:CG	2.97	0.42
4:B:1035:GLU:HG2	4:B:1036:VAL:H	1.85	0.42
5:C:52:ALA:HB3	5:C:170:PHE:CD2	2.55	0.42
5:C:71:VAL:H	5:C:71:VAL:HG22	1.56	0.42
5:C:140:PHE:CD2	5:C:140:PHE:C	2.97	0.42
5:C:191:LYS:O	5:C:192:ASP:HB3	2.19	0.42
5:D:107:ILE:HD13	5:D:107:ILE:HA	1.74	0.42
5:D:115:PRO:O	5:D:116:SER:C	2.62	0.42
5:D:117:GLU:HB2	9:U:155:ARG:NE	2.34	0.42
6:E:92:GLU:CD	6:E:92:GLU:N	2.77	0.42
6:E:128:LEU:C	6:E:130:ASP:N	2.76	0.42
6:E:229:ARG:O	6:E:230:VAL:C	2.62	0.42
6:E:291:GLU:O	6:E:292:ILE:C	2.57	0.42
6:E:441:ILE:O	6:E:441:ILE:CG2	2.55	0.42
6:E:461:CYS:O	6:E:463:ALA:N	2.53	0.42
8:G:219:THR:C	8:G:221:ALA:N	2.70	0.42
8:G:288:THR:O	8:G:289:PRO:C	2.61	0.42
8:G:350:THR:O	8:G:353:GLU:OE1	2.36	0.42
9:S:10:LEU:HG	9:S:60:GLY:C	2.45	0.42
9:S:16:GLY:C	9:S:18:PHE:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:46:GLU:O	9:S:58:LEU:HB2	2.18	0.42
9:S:69:LYS:C	9:S:72:LEU:HG	2.43	0.42
9:S:97:ILE:HG12	9:S:98:HIS:N	2.34	0.42
9:S:164:ASP:O	9:S:164:ASP:OD1	2.38	0.42
9:S:165:GLU:HG3	9:S:244:SER:CB	2.47	0.42
9:S:232:VAL:HG11	9:U:114:ARG:HB2	2.01	0.42
9:T:49:HIS:ND1	9:T:52:ASN:HB2	2.34	0.42
9:T:157:MET:N	9:T:294:TRP:CG	2.87	0.42
9:T:183:VAL:HG11	9:T:187:GLU:CB	2.45	0.42
9:T:194:VAL:CA	9:T:217:LEU:CD1	2.98	0.42
9:T:195:VAL:HG21	9:T:206:VAL:CB	2.45	0.42
9:T:195:VAL:C	9:T:222:GLU:HB3	2.44	0.42
9:T:275:ARG:HH21	9:T:276:VAL:C	2.26	0.42
9:T:292:HIS:O	9:T:293:PHE:C	2.58	0.42
9:U:135:LEU:CD2	9:U:143:ALA:CB	2.61	0.42
9:U:138:GLY:O	9:U:141:ASP:OD1	2.38	0.42
9:U:210:PHE:CZ	9:U:243:PRO:CG	2.93	0.42
9:V:105:LEU:O	9:V:108:VAL:HG12	2.19	0.42
9:V:162:LEU:HD11	9:V:278:MET:HE2	2.02	0.42
9:V:167:ILE:CB	9:V:209:LYS:HZ3	2.26	0.42
9:V:197:LYS:HA	9:V:222:GLU:HB3	2.00	0.42
10:X:42:GLU:CA	10:X:79:SER:HB3	2.23	0.42
10:X:101:LEU:HD23	10:X:101:LEU:C	2.44	0.42
10:X:154:LEU:CD1	10:X:158:ARG:NH1	2.80	0.42
10:Y:62:GLU:O	10:Y:64:ILE:N	2.53	0.42
10:Y:163:PRO:HA	10:Y:169:THR:H	1.84	0.42
1:1:44:DG:N3	2:2:83:DG:N2	2.68	0.42
2:2:60:DC:C5	10:Y:187:ARG:HB2	2.54	0.42
3:A:27:LEU:N	3:A:27:LEU:CD2	2.76	0.42
3:A:102:LEU:HG	3:A:109:ILE:O	2.19	0.42
3:A:109:ILE:HG22	3:A:111:GLU:HB2	2.00	0.42
3:A:145:PRO:HG3	3:A:273:GLY:HA2	2.00	0.42
3:A:293:THR:HG23	3:A:296:ASP:OD1	2.18	0.42
3:A:374:ILE:CG1	3:A:375:LYS:N	2.82	0.42
3:A:488:LEU:O	3:A:489:ARG:C	2.62	0.42
3:A:556:GLY:HA2	3:A:559:MET:HG2	2.01	0.42
3:A:608:VAL:HB	3:A:615:PRO:C	2.45	0.42
3:A:680:LEU:O	3:A:681:ALA:C	2.57	0.42
3:A:1005:PRO:HG2	6:E:355:ASP:OD2	2.20	0.42
3:A:1049:ASN:HB3	8:G:312:GLN:CD	2.44	0.42
4:B:442:VAL:O	4:B:999:PHE:HE2	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:461:GLU:CD	4:B:474:ALA:O	2.63	0.42
4:B:574:LEU:CA	4:B:589:ALA:HA	2.49	0.42
4:B:776:TYR:HB3	4:B:780:GLU:CG	2.28	0.42
4:B:1009:GLN:HA	4:B:1013:ARG:CB	2.49	0.42
5:C:217:LEU:C	5:C:221:PHE:H	2.19	0.42
5:D:90:TYR:O	5:D:91:SER:C	2.62	0.42
5:D:206:PRO:HG2	5:D:207:GLN:HE21	1.85	0.42
6:E:22:ILE:HD12	6:E:250:PRO:HD3	2.01	0.42
6:E:69:TRP:HA	6:E:93:VAL:CG1	2.49	0.42
6:E:296:GLU:HB2	6:E:300:ARG:CD	2.48	0.42
6:E:344:ARG:HA	6:E:348:ASN:ND2	2.35	0.42
6:E:383:LEU:HD13	6:E:383:LEU:HA	1.07	0.42
6:E:400:ASN:CG	6:E:401:ILE:H	2.27	0.42
6:E:585:THR:HG1	6:E:594:ARG:HG3	1.85	0.42
6:E:595:GLU:N	6:E:595:GLU:OE1	2.52	0.42
9:S:73:GLU:CB	9:T:66:ARG:HD3	2.43	0.42
9:S:94:ILE:HG22	9:S:95:ALA:N	2.34	0.42
9:S:185:TRP:CB	9:S:210:PHE:HA	2.49	0.42
9:S:285:LEU:CD1	9:S:294:TRP:CE3	2.99	0.42
9:T:23:SER:O	9:V:151:LEU:O	2.36	0.42
9:T:91:GLU:CD	9:T:91:GLU:H	2.26	0.42
9:T:186:SER:OG	9:T:210:PHE:O	2.38	0.42
9:T:205:LEU:CD2	9:T:274:ARG:HE	2.24	0.42
9:U:69:LYS:C	9:U:73:GLU:OE1	2.63	0.42
9:U:99:SER:O	9:U:101:CYS:N	2.52	0.42
9:U:146:MET:HB3	9:U:201:GLY:O	2.20	0.42
9:U:146:MET:HB2	9:U:202:MET:HG2	2.01	0.42
9:V:182:ARG:O	9:V:183:VAL:C	2.62	0.42
9:V:300:ASN:O	9:V:303:PRO:HD3	2.19	0.42
10:X:84:ASN:O	10:X:85:LYS:CD	2.67	0.42
10:X:114:GLU:CD	10:X:115:ASN:ND2	2.77	0.42
10:Y:47:LEU:HD22	10:Y:69:LEU:CG	2.49	0.42
10:Y:57:VAL:HG12	10:Y:90:TYR:HA	2.02	0.42
10:Y:154:LEU:HD12	10:Y:158:ARG:HD3	2.01	0.42
10:Y:180:ALA:O	10:Y:184:GLY:HA2	2.19	0.42
1:1:60:DT:H2"	1:1:61:DT:C7	2.48	0.42
1:1:88:DA:H2'	1:1:89:DA:C8	2.55	0.42
3:A:102:LEU:HG	3:A:109:ILE:C	2.44	0.42
3:A:140:GLN:NE2	3:A:140:GLN:C	2.78	0.42
3:A:221:LYS:HE3	3:A:227:GLY:HA3	2.01	0.42
3:A:552:ARG:CD	3:A:892:ARG:O	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:590:ILE:HB	3:A:670:ALA:CB	2.50	0.42
3:A:622:THR:O	3:A:623:ASP:O	2.37	0.42
3:A:658:ARG:CG	5:C:72:ARG:HH21	2.27	0.42
3:A:714:TYR:N	3:A:714:TYR:CD1	2.87	0.42
3:A:737:THR:H	3:A:773:VAL:HG23	1.73	0.42
3:A:876:ASP:OD1	3:A:878:SER:N	2.52	0.42
4:B:32:MET:CG	4:B:33:ALA:H	2.32	0.42
4:B:80:TYR:CD2	4:B:80:TYR:C	2.93	0.42
4:B:223:ARG:HB3	4:B:224:PRO:HD2	2.02	0.42
4:B:438:THR:HG22	4:B:1001:ARG:N	2.35	0.42
4:B:479:LEU:C	4:B:972:TYR:O	2.63	0.42
4:B:487:VAL:HA	4:B:987:LEU:HD22	2.00	0.42
4:B:497:VAL:HG21	4:B:875:GLN:CD	2.44	0.42
4:B:700:VAL:HG22	4:B:729:GLU:OE1	2.19	0.42
4:B:726:GLN:H	4:B:738:SER:HA	1.83	0.42
4:B:853:THR:HB	4:B:874:THR:CG2	2.48	0.42
4:B:866:VAL:HB	4:B:869:SER:HB3	2.01	0.42
4:B:918:ALA:HA	4:B:941:VAL:O	2.19	0.42
4:B:999:PHE:HD1	4:B:1000:GLU:O	2.02	0.42
4:B:1141:ILE:O	4:B:1142:GLU:C	2.62	0.42
5:C:16:SER:CB	5:C:19:HIS:CE1	2.90	0.42
5:C:61:VAL:HG11	5:C:66:ALA:HB3	2.01	0.42
5:C:180:VAL:O	5:C:181:GLU:HB3	2.20	0.42
5:C:182:GLU:CG	5:C:183:VAL:H	2.33	0.42
5:D:90:TYR:HE2	9:U:155:ARG:NE	2.05	0.42
5:D:96:ILE:O	5:D:115:PRO:HD3	2.19	0.42
5:D:99:LEU:CA	5:D:113:ASP:OD2	2.68	0.42
6:E:38:GLU:OE1	6:E:39:VAL:O	2.37	0.42
6:E:116:TRP:HD1	6:E:116:TRP:HA	1.20	0.42
6:E:212:GLU:O	6:E:213:ILE:C	2.61	0.42
6:E:286:LEU:HD11	6:E:303:LYS:HD2	2.01	0.42
6:E:287:ALA:C	6:E:289:LEU:H	2.27	0.42
6:E:486:GLU:O	6:E:491:MET:HB2	2.20	0.42
7:F:64:GLU:O	7:F:65:MET:C	2.58	0.42
8:G:290:ILE:CG2	8:G:296:SER:O	2.59	0.42
8:G:353:GLU:O	8:G:354:ILE:C	2.59	0.42
9:S:11:ALA:HB2	9:S:24:LYS:NZ	2.34	0.42
9:S:48:PHE:CG	9:S:49:HIS:N	2.87	0.42
9:S:105:LEU:O	9:S:108:VAL:HG13	2.19	0.42
9:S:160:GLU:CD	9:S:298:ARG:HD3	2.45	0.42
9:T:91:GLU:O	9:T:92:LEU:CG	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:128:SER:HB3	9:T:145:VAL:CA	2.48	0.42
9:T:192:PRO:O	9:T:238:LEU:HD23	2.19	0.42
9:T:209:LYS:HE3	9:T:212:ARG:NH2	1.94	0.42
9:T:288:PRO:HD3	9:T:291:LYS:CE	2.41	0.42
9:U:90:PRO:HD2	9:U:120:GLN:OE1	2.19	0.42
9:U:144:ILE:HD11	9:U:297:VAL:CG2	2.44	0.42
9:U:158:VAL:HG23	9:U:295:GLN:CD	2.45	0.42
9:U:197:LYS:HA	9:U:223:VAL:O	2.20	0.42
9:V:89:GLN:C	9:V:287:ILE:HB	2.45	0.42
9:V:104:TYR:CD2	9:V:302:PRO:HA	2.45	0.42
9:V:126:LEU:CD1	9:V:139:LEU:HD22	2.49	0.42
9:V:166:PRO:CG	9:V:263:ASN:HB2	2.50	0.42
9:V:179:ALA:O	9:V:180:TYR:C	2.62	0.42
9:V:200:TYR:HB3	9:V:203:GLN:N	2.35	0.42
10:X:56:ARG:CG	10:X:66:VAL:HB	2.49	0.42
10:Y:27:THR:OG1	10:Y:99:GLU:HA	2.20	0.42
10:Y:58:TYR:CD1	10:Y:89:PHE:CD2	3.07	0.42
10:Y:73:SER:OG	10:Y:128:SER:HB2	2.20	0.42
10:Y:77:VAL:CG1	10:Y:78:LEU:N	2.82	0.42
10:Y:197:LEU:HD22	10:Y:202:MET:HB2	2.01	0.42
1:1:34:DT:O4	9:T:34:ARG:HD3	2.19	0.42
3:A:109:ILE:HD12	3:A:109:ILE:N	2.34	0.42
3:A:144:SER:O	3:A:145:PRO:O	2.37	0.42
3:A:343:LEU:HG	3:A:347:ILE:HD11	2.00	0.42
3:A:378:PHE:N	3:A:378:PHE:CD1	2.83	0.42
3:A:495:ILE:O	3:A:496:PRO:C	2.59	0.42
3:A:548:ASP:OD2	3:A:894:ASN:O	2.37	0.42
3:A:591:VAL:HB	3:A:667:GLN:C	2.45	0.42
3:A:687:VAL:HG22	3:A:880:VAL:CG2	2.41	0.42
3:A:770:VAL:HG22	3:A:771:GLY:N	2.34	0.42
3:A:787:LEU:HB2	3:A:791:ILE:HG13	2.02	0.42
3:A:817:VAL:HB	3:A:838:VAL:CG2	2.49	0.42
3:A:898:VAL:H	3:A:898:VAL:HG13	1.65	0.42
3:A:927:SER:O	3:A:929:ARG:N	2.52	0.42
4:B:125:MET:O	4:B:129:GLY:O	2.38	0.42
4:B:134:ILE:CG1	4:B:348:GLN:HB3	2.50	0.42
4:B:283:ARG:CZ	4:B:297:HIS:C	2.93	0.42
4:B:539:ILE:HB	4:B:541:THR:HG21	2.02	0.42
4:B:692:LEU:C	4:B:736:LEU:N	2.71	0.42
4:B:732:GLU:O	4:B:732:GLU:HG2	2.19	0.42
4:B:766:ILE:HG21	4:B:766:ILE:HD13	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:896:ARG:HE	4:B:986:ASP:HB3	1.77	0.42
4:B:1114:LEU:N	4:B:1114:LEU:HD23	2.35	0.42
5:C:74:ASP:O	5:C:78:ILE:N	2.53	0.42
5:C:80:MET:HE3	5:C:80:MET:HB3	1.91	0.42
5:C:90:TYR:C	5:C:92:SER:N	2.73	0.42
5:D:63:HIS:CD2	5:D:66:ALA:N	2.86	0.42
5:D:67:THR:OG1	5:D:69:PRO:HD3	2.19	0.42
5:D:104:PRO:HD3	5:D:132:GLU:HG2	2.00	0.42
5:D:217:LEU:CB	5:D:221:PHE:HB3	2.37	0.42
6:E:225:ILE:HG23	6:E:225:ILE:HD12	1.78	0.42
6:E:287:ALA:C	6:E:290:GLN:HG2	2.43	0.42
6:E:344:ARG:O	6:E:345:PHE:C	2.63	0.42
6:E:377:ARG:N	6:E:450:GLU:HA	2.21	0.42
6:E:412:ASP:CG	6:E:413:PRO:N	2.71	0.42
6:E:596:ASP:HB2	6:E:599:GLY:HA3	2.02	0.42
7:F:59:LEU:CA	7:F:62:ILE:HG12	2.50	0.42
9:S:3:LEU:HD21	9:S:71:CYS:SG	2.60	0.42
9:S:97:ILE:CG1	9:S:98:HIS:N	2.82	0.42
9:T:163:TYR:HE2	9:T:274:ARG:NH1	2.18	0.42
9:T:167:ILE:CD1	9:T:243:PRO:HG3	2.39	0.42
9:T:217:LEU:CG	9:T:218:GLN:N	2.81	0.42
9:U:192:PRO:C	9:U:219:ALA:HA	2.45	0.42
9:U:204:ARG:CB	9:U:207:GLN:HE21	2.30	0.42
9:U:254:PRO:C	9:U:256:LEU:N	2.76	0.42
9:V:92:LEU:HD13	9:V:294:TRP:CB	2.49	0.42
9:V:107:PRO:HB3	9:V:111:LYS:HZ1	1.84	0.42
9:V:212:ARG:O	9:V:265:ALA:HB1	2.20	0.42
9:V:255:THR:O	9:V:255:THR:HG23	2.20	0.42
9:V:290:ILE:O	9:V:294:TRP:HB3	2.18	0.42
10:X:47:LEU:HD21	10:X:98:VAL:HG13	2.02	0.42
10:Y:32:LYS:O	10:Y:93:VAL:HG11	2.20	0.42
10:Y:84:ASN:O	10:Y:85:LYS:HG3	2.20	0.42
10:Y:177:GLN:HB3	10:Y:190:VAL:HG23	2.01	0.42
10:Y:180:ALA:HA	10:Y:185:SER:O	2.19	0.42
1:1:19:DA:H8	1:1:19:DA:OP2	2.02	0.42
2:2:100:DT:O2	2:2:101:DA:C8	2.73	0.42
3:A:40:TRP:CD2	3:A:44:GLU:OE1	2.73	0.42
3:A:82:GLU:O	3:A:86:ARG:N	2.52	0.42
3:A:162:SER:OG	3:A:176:GLU:HA	2.20	0.42
3:A:231:GLU:O	3:A:235:LEU:HG	2.20	0.42
3:A:285:VAL:CA	3:A:287:ASP:OD2	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:345:ARG:O	3:A:346:ILE:C	2.61	0.42
3:A:357:GLU:HG2	3:A:358:VAL:N	2.34	0.42
3:A:488:LEU:CD2	3:A:489:ARG:O	2.68	0.42
3:A:490:VAL:H	3:A:511:ARG:N	2.18	0.42
3:A:519:THR:HG21	3:A:523:GLN:HG3	2.02	0.42
3:A:571:ARG:O	3:A:572:PRO:C	2.55	0.42
3:A:616:THR:CB	3:A:633:GLN:N	2.80	0.42
3:A:654:LYS:HB3	3:A:671:ASP:HB2	2.02	0.42
3:A:682:LEU:HA	3:A:682:LEU:HD13	1.23	0.42
3:A:691:MET:HE3	3:A:972:VAL:HG21	2.02	0.42
3:A:740:ILE:O	3:A:741:PRO:O	2.37	0.42
3:A:749:ARG:HB3	3:A:749:ARG:HH11	1.77	0.42
3:A:1055:ILE:CG2	6:E:390:ASN:ND2	2.83	0.42
4:B:137:VAL:O	4:B:138:ARG:O	2.37	0.42
4:B:268:LEU:O	4:B:269:ALA:C	2.59	0.42
4:B:283:ARG:NH1	4:B:297:HIS:CB	2.83	0.42
4:B:484:SER:HB2	4:B:968:ALA:CB	2.48	0.42
4:B:508:GLY:O	4:B:509:VAL:HB	2.19	0.42
4:B:708:LEU:HD23	4:B:708:LEU:HA	1.42	0.42
4:B:769:ARG:H	4:B:797:LEU:HD22	1.84	0.42
4:B:787:GLY:C	4:B:789:GLU:N	2.76	0.42
4:B:804:GLU:C	4:B:807:HIS:H	2.28	0.42
4:B:851:GLY:O	4:B:853:THR:HG23	2.19	0.42
4:B:1018:LEU:C	4:B:1020:ALA:N	2.77	0.42
5:C:52:ALA:N	5:C:170:PHE:CE1	2.88	0.42
5:C:189:ILE:HG23	5:C:190:PRO:HD3	2.01	0.42
5:C:196:LEU:HD12	5:C:197:GLU:O	2.19	0.42
5:D:96:ILE:CG2	5:D:139:GLU:HB3	2.50	0.42
5:D:213:ALA:O	5:D:217:LEU:HD23	2.19	0.42
6:E:251:VAL:HG13	6:E:276:TYR:OH	2.19	0.42
6:E:276:TYR:CD1	6:E:276:TYR:N	2.85	0.42
7:F:58:VAL:O	7:F:61:ALA:CB	2.68	0.42
8:G:82:ILE:N	8:G:82:ILE:HD13	2.35	0.42
8:G:107:ILE:HA	8:G:107:ILE:HD13	1.84	0.42
9:S:112:PHE:N	9:S:293:PHE:HE1	2.18	0.42
9:S:146:MET:HE1	9:S:204:ARG:HB2	2.00	0.42
9:S:188:LEU:CD1	9:S:210:PHE:CE1	2.95	0.42
9:S:223:VAL:CG2	9:U:112:PHE:O	2.68	0.42
9:T:37:GLN:HG2	9:T:48:PHE:HE1	1.84	0.42
9:T:206:VAL:HG13	9:T:241:LEU:HD11	1.86	0.42
9:U:4:GLU:C	9:U:6:LEU:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:116:TYR:O	9:U:118:GLU:N	2.53	0.42
9:U:191:TYR:CE1	9:U:237:GLU:HA	2.54	0.42
9:V:12:ILE:CG1	9:V:15:THR:OG1	2.60	0.42
9:V:226:LEU:HA	9:V:229:PHE:CD1	2.55	0.42
9:V:250:ALA:C	9:V:252:LEU:H	2.27	0.42
10:X:151:SER:HG	10:X:152:PHE:H	1.67	0.42
10:X:170:ILE:HG21	10:X:170:ILE:HD13	1.76	0.42
10:X:212:VAL:HG22	10:X:213:HIS:N	2.34	0.42
10:Y:177:GLN:CG	10:Y:190:VAL:CG2	2.85	0.42
1:1:36:DC:N3	2:2:90:DG:N2	2.60	0.42
1:1:58:DA:C2'	1:1:59:DT:H72	2.49	0.42
3:A:33:ILE:H	3:A:33:ILE:HG12	1.66	0.42
3:A:140:GLN:O	3:A:325:VAL:HA	2.20	0.42
3:A:166:ILE:CG1	3:A:172:TRP:CB	2.96	0.42
3:A:277:LEU:HA	3:A:277:LEU:HD12	1.22	0.42
3:A:288:THR:HG23	3:A:290:ARG:NH2	2.26	0.42
3:A:464:ARG:HH11	3:A:529:VAL:C	2.26	0.42
3:A:607:ARG:HA	3:A:609:ARG:H	1.84	0.42
3:A:756:ILE:HD12	3:A:770:VAL:CG2	2.49	0.42
3:A:788:LEU:HA	3:A:791:ILE:HB	2.01	0.42
3:A:907:GLY:O	3:A:911:GLY:N	2.53	0.42
3:A:908:HIS:O	3:A:908:HIS:CG	2.73	0.42
3:A:960:TYR:O	3:A:961:ASP:HB3	2.20	0.42
3:A:1006:LEU:HD23	3:A:1006:LEU:H	1.84	0.42
3:A:1021:GLU:O	3:A:1025:LEU:N	2.53	0.42
3:A:1082:LEU:HG	3:A:1083:ASP:H	1.85	0.42
4:B:92:GLN:NE2	4:B:377:LEU:HD13	2.35	0.42
4:B:95:ILE:HG13	4:B:146:LEU:HD21	1.99	0.42
4:B:110:VAL:HG11	4:B:350:ARG:NE	2.34	0.42
4:B:216:THR:HG21	4:B:288:CYS:CB	2.50	0.42
4:B:222:VAL:CG2	4:B:239:LEU:HD11	2.50	0.42
4:B:253:THR:HG23	4:B:253:THR:H	1.56	0.42
4:B:368:HIS:CE1	4:B:975:SER:OG	2.73	0.42
4:B:445:VAL:O	4:B:994:LEU:N	2.52	0.42
4:B:561:ASN:HB2	4:B:574:LEU:CD1	2.50	0.42
4:B:631:TRP:HZ3	4:B:782:VAL:HG11	1.80	0.42
4:B:650:ASP:N	4:B:650:ASP:OD1	2.52	0.42
4:B:659:GLU:OE1	4:B:659:GLU:N	2.52	0.42
4:B:761:GLN:HE22	4:B:765:SER:CA	2.05	0.42
4:B:940:ILE:HG12	4:B:965:THR:O	2.20	0.42
4:B:1152:VAL:HG11	4:B:1170:LEU:HD13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:99:LEU:O	5:C:137:GLU:HA	2.19	0.42
5:C:169:ILE:C	5:C:171:MET:N	2.76	0.42
5:D:31:GLY:O	5:D:33:GLY:N	2.52	0.42
5:D:36:VAL:HG23	5:D:40:LEU:HD22	2.02	0.42
5:D:90:TYR:HD1	5:D:144:ARG:HH12	1.68	0.42
6:E:80:ARG:CZ	8:G:345:ASP:CG	2.92	0.42
6:E:141:TYR:CD1	6:E:304:ARG:CZ	2.98	0.42
6:E:226:LYS:C	6:E:228:LEU:N	2.73	0.42
6:E:288:ARG:C	6:E:291:GLU:OE2	2.63	0.42
9:S:100:LEU:O	9:S:100:LEU:HD23	2.19	0.42
9:T:2:ARG:HB3	9:T:6:LEU:HD23	2.02	0.42
9:T:157:MET:CA	9:T:294:TRP:CZ2	2.94	0.42
9:T:183:VAL:CB	9:T:187:GLU:HB2	2.50	0.42
9:T:288:PRO:HB2	9:T:289:PRO:CD	2.50	0.42
9:U:79:GLN:HG3	9:U:80:GLU:N	2.34	0.42
9:U:99:SER:HB3	9:U:274:ARG:HH21	1.83	0.42
9:U:127:GLY:HA2	9:U:200:TYR:CG	2.55	0.42
9:U:221:LEU:HD22	9:U:223:VAL:CG1	2.50	0.42
9:V:1:MET:HE3	9:V:66:ARG:NH2	2.34	0.42
9:V:65:PRO:O	9:V:67:ALA:N	2.53	0.42
9:V:97:ILE:CG2	9:V:274:ARG:HH12	2.17	0.42
9:V:142:LEU:HA	9:V:142:LEU:HD23	1.77	0.42
9:V:169:LEU:HB2	9:V:261:LEU:HD23	2.00	0.42
9:V:175:HIS:CD2	9:V:176:PRO:CD	2.90	0.42
9:V:185:TRP:CZ3	9:V:214:GLU:HB3	2.55	0.42
9:V:196:PHE:HD1	9:V:224:ASN:CB	2.27	0.42
9:V:196:PHE:CD2	9:V:206:VAL:HG11	2.55	0.42
10:X:57:VAL:HG12	10:X:90:TYR:HA	2.02	0.42
10:X:62:GLU:O	10:X:64:ILE:N	2.52	0.42
10:Y:153:LEU:C	10:Y:155:ILE:N	2.77	0.42
2:2:88:DT:H2"	2:2:89:DT:C6	2.55	0.42
3:A:62:LYS:HA	3:A:104:LYS:HG3	2.02	0.42
3:A:101:LEU:HD12	3:A:108:ASP:O	2.19	0.42
3:A:117:GLY:HA2	3:A:371:VAL:HG23	2.01	0.42
3:A:121:LEU:O	3:A:122:MET:C	2.62	0.42
3:A:170:GLY:HA3	3:A:267:TYR:CE1	2.55	0.42
3:A:280:LYS:O	3:A:282:ARG:N	2.52	0.42
3:A:293:THR:HG23	3:A:295:GLY:N	2.35	0.42
3:A:371:VAL:O	3:A:372:ALA:C	2.59	0.42
3:A:397:THR:O	3:A:399:LYS:N	2.53	0.42
3:A:547:HIS:ND1	3:A:899:PHE:HE2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:566:LEU:HD13	3:A:981:LYS:CE	2.50	0.42
3:A:738:ARG:O	3:A:748:LEU:HD21	2.19	0.42
3:A:813:ARG:NH1	3:A:813:ARG:HG3	2.33	0.42
3:A:910:LEU:O	3:A:911:GLY:C	2.63	0.42
3:A:970:ARG:NH2	4:B:48:GLY:O	2.53	0.42
3:A:1052:LEU:HB2	8:G:313:VAL:CG1	2.45	0.42
4:B:85:ILE:HD12	4:B:373:GLY:N	2.33	0.42
4:B:88:VAL:O	4:B:91:PHE:HB3	2.20	0.42
4:B:135:SER:HA	4:B:138:ARG:NE	2.34	0.42
4:B:157:LEU:CG	4:B:174:ILE:HD11	2.31	0.42
4:B:535:ARG:O	4:B:839:VAL:HG13	2.20	0.42
4:B:816:ILE:HG23	4:B:833:VAL:O	2.20	0.42
4:B:831:GLN:CD	4:B:831:GLN:H	2.28	0.42
4:B:831:GLN:HB3	4:B:833:VAL:CG2	2.46	0.42
4:B:910:ILE:HG21	4:B:943:VAL:O	2.20	0.42
4:B:922:ILE:O	4:B:938:GLY:O	2.37	0.42
4:B:1107:TYR:CD1	4:B:1107:TYR:N	2.87	0.42
4:B:1146:ARG:C	4:B:1148:MET:N	2.75	0.42
4:B:1148:MET:SD	4:B:1196:GLY:N	2.92	0.42
5:C:6:ILE:HD13	5:D:224:LEU:HD11	2.01	0.42
5:C:22:LYS:O	5:C:23:PHE:CD1	2.73	0.42
5:C:61:VAL:HG11	5:C:63:HIS:HB3	2.01	0.42
5:C:101:VAL:HG13	5:C:102:ASN:N	2.35	0.42
5:D:101:VAL:HG13	5:D:102:ASN:N	2.35	0.42
5:D:103:GLY:HA2	5:D:132:GLU:HA	2.01	0.42
5:D:214:ALA:O	5:D:217:LEU:HD23	2.19	0.42
6:E:145:TYR:N	6:E:162:LEU:O	2.53	0.42
6:E:287:ALA:CA	6:E:290:GLN:NE2	2.76	0.42
6:E:392:LEU:HD23	6:E:392:LEU:N	2.35	0.42
6:E:555:TYR:CD1	6:E:608:THR:HA	2.55	0.42
8:G:246:THR:HG22	8:G:262:ILE:HG12	2.02	0.42
8:G:352:GLU:O	8:G:355:GLY:CA	2.68	0.42
8:G:374:ARG:O	8:G:376:LEU:N	2.53	0.42
9:T:158:VAL:CG2	9:T:159:VAL:H	2.21	0.42
9:T:205:LEU:CG	9:T:206:VAL:N	2.81	0.42
9:U:9:PHE:HD1	9:U:36:ILE:HG12	1.85	0.42
9:U:45:LEU:HD21	9:U:62:ARG:CD	2.40	0.42
9:U:280:THR:OG1	9:U:294:TRP:CZ2	2.66	0.42
9:V:7:GLN:O	9:V:8:ALA:C	2.63	0.42
9:V:184:PRO:HB3	9:V:268:GLU:CD	2.45	0.42
9:V:190:ARG:CA	9:V:193:GLN:NE2	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:V:203:GLN:CD	9:V:207:GLN:N	2.58	0.42
9:V:285:LEU:CD1	9:V:286:GLN:N	2.72	0.42
10:X:130:ILE:CG2	10:Y:130:ILE:HG23	2.49	0.42
10:X:165:ALA:HB3	10:X:209:LYS:HB3	2.00	0.42
10:X:177:GLN:O	10:X:180:ALA:HB3	2.19	0.42
10:X:180:ALA:HA	10:X:185:SER:CB	2.46	0.42
10:Y:118:LEU:HA	10:Y:121:LEU:CB	2.45	0.42
10:Y:200:LYS:C	10:Y:202:MET:N	2.78	0.42
3:A:66:HIS:H	3:A:99:THR:HG1	1.68	0.41
3:A:90:THR:HG23	3:A:131:ASN:HB2	2.02	0.41
3:A:370:LEU:N	3:A:370:LEU:CD1	2.80	0.41
3:A:412:ARG:NH2	3:A:440:ASN:HB3	2.34	0.41
3:A:464:ARG:HE	3:A:473:PHE:HD1	1.67	0.41
3:A:596:GLY:CA	3:A:662:ARG:HH22	2.33	0.41
3:A:735:GLU:O	3:A:773:VAL:N	2.45	0.41
3:A:741:PRO:O	3:A:742:ASN:HB2	2.20	0.41
3:A:752:ASP:O	3:A:754:GLN:N	2.53	0.41
3:A:830:PRO:O	3:A:831:GLY:C	2.63	0.41
3:A:889:VAL:O	3:A:893:MET:N	2.49	0.41
3:A:1039:THR:C	3:A:1041:LYS:N	2.77	0.41
3:A:1041:LYS:HD3	6:E:355:ASP:CA	2.50	0.41
4:B:88:VAL:HG12	4:B:89:GLU:OE1	2.19	0.41
4:B:101:THR:HG22	4:B:420:LYS:HB2	2.01	0.41
4:B:160:LYS:CD	4:B:171:GLU:CD	2.84	0.41
4:B:183:LEU:HA	4:B:183:LEU:HD12	1.28	0.41
4:B:197:THR:CB	4:B:321:GLN:HA	2.49	0.41
4:B:201:VAL:O	4:B:205:GLN:N	2.53	0.41
4:B:373:GLY:O	4:B:374:GLU:HG2	2.20	0.41
4:B:437:ASN:HB3	4:B:1004:THR:HG22	2.01	0.41
4:B:466:ARG:HH21	4:B:998:VAL:HG11	1.85	0.41
4:B:586:GLN:HE22	4:B:798:GLU:CD	2.24	0.41
4:B:737:LEU:HD12	4:B:738:SER:N	2.35	0.41
4:B:812:LEU:O	4:B:834:ILE:HG12	2.20	0.41
4:B:854:GLN:H	4:B:875:GLN:N	2.18	0.41
4:B:914:PRO:CB	4:B:944:LYS:HD3	2.48	0.41
4:B:1044:ASP:OD1	4:B:1048:ALA:HB3	2.20	0.41
4:B:1238:ASN:HD21	4:B:1245:ILE:HA	1.84	0.41
5:C:110:SER:HA	5:C:120:VAL:HG11	2.01	0.41
5:C:141:ARG:CZ	5:C:155:ARG:CB	2.78	0.41
5:D:110:SER:HA	5:D:120:VAL:HG11	2.01	0.41
6:E:108:LEU:HD12	6:E:247:THR:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:437:HIS:HE1	6:E:463:ALA:O	2.03	0.41
6:E:477:VAL:HG12	6:E:478:PRO:O	2.20	0.41
6:E:559:ARG:O	6:E:560:PHE:CB	2.68	0.41
6:E:570:ASP:OD1	6:E:590:TYR:HB2	2.20	0.41
8:G:373:LEU:O	8:G:376:LEU:HD21	2.20	0.41
9:S:43:LEU:O	9:S:43:LEU:HG	2.19	0.41
9:S:165:GLU:CG	9:S:244:SER:HB3	2.48	0.41
9:S:178:ALA:HA	9:S:259:ARG:HB2	2.02	0.41
9:T:69:LYS:C	9:T:73:GLU:OE1	2.63	0.41
9:T:79:GLN:O	9:T:80:GLU:C	2.63	0.41
9:T:164:ASP:HB2	9:T:275:ARG:HD3	2.01	0.41
9:T:180:TYR:HB3	9:T:188:LEU:CB	2.49	0.41
9:T:225:THR:CG2	9:V:124:THR:HA	2.48	0.41
9:U:92:LEU:HB3	9:U:284:ARG:NH1	2.34	0.41
9:U:96:ALA:HB2	9:U:293:PHE:CE1	2.51	0.41
9:U:180:TYR:CD2	9:U:187:GLU:O	2.72	0.41
9:U:183:VAL:N	9:U:184:PRO:CD	2.83	0.41
9:U:225:THR:CB	9:U:228:ALA:HB3	2.50	0.41
9:V:92:LEU:CD2	9:V:294:TRP:HA	2.49	0.41
9:V:167:ILE:HD11	9:V:272:LEU:CD2	2.50	0.41
10:X:187:ARG:NH1	10:X:190:VAL:HG11	2.33	0.41
10:Y:166:ASP:CG	10:Y:211:THR:O	2.63	0.41
10:Y:201:LYS:O	10:Y:201:LYS:HG2	2.20	0.41
1:1:79:DA:H3'	1:1:80:DA:C8	2.55	0.41
3:A:38:PHE:C	3:A:40:TRP:N	2.74	0.41
3:A:59:TYR:HD1	3:A:352:THR:CG2	2.32	0.41
3:A:152:GLU:HG3	3:A:160:THR:C	2.45	0.41
3:A:197:VAL:C	3:A:199:LEU:H	2.27	0.41
3:A:544:PHE:CD2	3:A:899:PHE:HD2	2.34	0.41
3:A:570:GLU:OE2	3:A:571:ARG:O	2.39	0.41
3:A:682:LEU:N	3:A:682:LEU:CD2	2.80	0.41
3:A:724:ILE:HG22	3:A:836:VAL:CB	2.48	0.41
3:A:759:ILE:HA	3:A:814:VAL:CG1	2.49	0.41
3:A:905:TRP:CE3	3:A:975:GLY:CA	2.90	0.41
3:A:943:THR:CG2	3:A:946:ASP:H	2.34	0.41
3:A:985:LEU:HD23	3:A:987:ASP:CB	2.50	0.41
3:A:991:HIS:HB2	3:A:1009:LYS:HZ2	1.85	0.41
3:A:1000:LEU:HD12	3:A:1000:LEU:HA	1.49	0.41
3:A:1041:LYS:HZ3	6:E:356:TYR:CB	2.28	0.41
4:B:62:LYS:HE2	4:B:143:MET:HG3	2.02	0.41
4:B:97:THR:OG1	4:B:422:GLN:CD	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:184:VAL:HG13	4:B:184:VAL:H	1.61	0.41
4:B:244:VAL:HA	4:B:282:VAL:C	2.45	0.41
4:B:472:THR:HG22	4:B:979:VAL:HA	2.02	0.41
4:B:496:LEU:HB2	4:B:511:ALA:HB2	2.01	0.41
4:B:538:GLU:HB2	4:B:835:LEU:HD13	2.03	0.41
4:B:625:GLN:C	4:B:625:GLN:CD	2.88	0.41
4:B:687:LYS:HD3	4:B:781:ARG:HH22	1.85	0.41
4:B:804:GLU:O	4:B:805:GLN:C	2.63	0.41
4:B:863:ASP:HB2	4:B:866:VAL:H	1.85	0.41
4:B:1014:ILE:CG2	4:B:1018:LEU:HD11	2.44	0.41
4:B:1229:SER:CB	6:E:13:LYS:HA	2.50	0.41
5:C:57:ARG:HH21	5:C:164:LEU:N	2.18	0.41
5:C:104:PRO:C	5:C:105:THR:OG1	2.63	0.41
5:C:174:ARG:HB2	5:C:175:LYS:H	1.43	0.41
5:C:206:PRO:O	5:C:211:SER:N	2.53	0.41
5:D:117:GLU:CD	9:U:155:ARG:HE	2.27	0.41
6:E:84:ILE:O	6:E:92:GLU:HG3	2.19	0.41
6:E:86:CYS:HB3	6:E:89:CYS:CA	2.50	0.41
6:E:221:ARG:C	6:E:225:ILE:HG12	2.45	0.41
6:E:449:VAL:HG12	6:E:450:GLU:H	1.84	0.41
8:G:86:LEU:C	8:G:86:LEU:HD23	2.45	0.41
8:G:130:ASP:HB2	8:G:133:TRP:CD1	2.55	0.41
8:G:274:ARG:HE	8:G:274:ARG:HB3	1.59	0.41
9:S:134:VAL:HA	9:S:137:ASP:CG	2.45	0.41
9:S:253:ASP:H	9:S:256:LEU:CD1	2.32	0.41
9:T:193:GLN:NE2	9:T:239:ILE:CB	2.63	0.41
9:T:218:GLN:NE2	9:T:219:ALA:O	2.49	0.41
9:T:225:THR:HG23	9:T:228:ALA:H	1.85	0.41
9:U:101:CYS:HA	9:U:105:LEU:HB2	2.03	0.41
9:U:128:SER:CA	9:U:131:ALA:HB3	2.47	0.41
9:U:150:PHE:O	9:U:151:LEU:HD23	2.20	0.41
9:U:176:PRO:HG3	9:U:191:TYR:HB2	2.01	0.41
9:U:204:ARG:HB2	9:U:208:GLU:HG3	2.03	0.41
9:V:7:GLN:HG2	9:V:68:ARG:HD3	2.01	0.41
9:V:163:TYR:C	9:V:274:ARG:HG2	2.45	0.41
9:V:226:LEU:CD1	9:V:242:LEU:CD1	2.97	0.41
10:X:49:LYS:H	10:X:99:GLU:HB2	1.85	0.41
10:X:69:LEU:HD12	10:X:70:ARG:N	2.35	0.41
10:X:168:ILE:O	10:X:211:THR:OG1	2.34	0.41
10:Y:44:VAL:HB	10:Y:103:ALA:O	2.19	0.41
10:Y:69:LEU:HD12	10:Y:70:ARG:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:77:VAL:CG1	10:Y:78:LEU:H	2.24	0.41
10:Y:147:SER:O	10:Y:148:ARG:C	2.63	0.41
10:Y:154:LEU:O	10:Y:158:ARG:HB3	2.20	0.41
10:Y:179:ILE:HG13	10:Y:185:SER:HB3	2.01	0.41
1:1:72:DT:OP2	10:X:188:VAL:HG11	2.20	0.41
2:2:27:DA:C8	8:G:215:ARG:NH2	2.88	0.41
2:2:61:DT:H73	10:Y:187:ARG:CG	2.51	0.41
3:A:30:LEU:CD1	3:A:400:ARG:CZ	2.98	0.41
3:A:101:LEU:HB2	3:A:109:ILE:CA	2.27	0.41
3:A:433:ILE:CG2	3:A:433:ILE:O	2.67	0.41
3:A:433:ILE:HA	3:A:554:LEU:HD23	2.03	0.41
3:A:459:LEU:CD1	3:A:461:THR:HG23	2.51	0.41
3:A:467:GLU:O	3:A:468:ASN:OD1	2.37	0.41
3:A:498:ASP:CG	3:A:502:TYR:O	2.63	0.41
3:A:713:ILE:CG2	3:A:714:TYR:H	2.33	0.41
3:A:788:LEU:HA	3:A:788:LEU:HD12	1.59	0.41
3:A:929:ARG:NH2	3:A:933:HIS:CE1	2.88	0.41
3:A:938:GLU:O	3:A:939:ALA:C	2.63	0.41
3:A:1085:ALA:O	3:A:1086:VAL:C	2.63	0.41
4:B:85:ILE:HD13	4:B:85:ILE:HG21	1.81	0.41
4:B:113:PHE:C	4:B:115:GLN:N	2.76	0.41
4:B:243:VAL:C	4:B:244:VAL:HG23	2.45	0.41
4:B:296:GLN:HG2	4:B:308:MET:CE	2.49	0.41
4:B:320:ALA:O	4:B:321:GLN:C	2.63	0.41
4:B:438:THR:O	4:B:1000:GLU:HB2	2.20	0.41
4:B:447:SER:OG	4:B:448:ASP:N	2.53	0.41
4:B:523:VAL:N	4:B:862:GLY:HA3	2.35	0.41
4:B:532:LYS:HB2	4:B:842:ARG:HB3	2.02	0.41
4:B:603:PHE:CZ	4:B:781:ARG:HD3	2.55	0.41
4:B:632:ILE:HG22	4:B:688:PRO:HD3	2.02	0.41
4:B:659:GLU:O	4:B:665:PHE:HA	2.20	0.41
4:B:729:GLU:OE2	4:B:730:SER:N	2.53	0.41
4:B:993:ASN:O	4:B:994:LEU:HD23	2.21	0.41
4:B:1033:GLY:HA3	4:B:1053:GLU:OE1	2.21	0.41
4:B:1065:PRO:O	4:B:1068:ASN:O	2.39	0.41
4:B:1114:LEU:O	4:B:1115:GLN:C	2.62	0.41
5:C:17:ARG:HA	5:C:202:GLY:CA	2.51	0.41
5:D:9:VAL:HG21	5:D:24:ILE:CG1	2.34	0.41
5:D:17:ARG:HA	5:D:202:GLY:CA	2.50	0.41
5:D:18:ASN:ND2	5:D:199:TRP:CG	2.88	0.41
5:D:57:ARG:HG2	5:D:139:GLU:C	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:140:PHE:CD2	5:D:140:PHE:C	2.97	0.41
6:E:213:ILE:HG22	6:E:217:LYS:NZ	2.35	0.41
6:E:391:ARG:C	6:E:391:ARG:HD3	2.44	0.41
6:E:457:HIS:CE1	6:E:458:PRO:CG	2.95	0.41
6:E:510:SER:O	6:E:514:VAL:HG13	2.20	0.41
6:E:541:VAL:O	6:E:544:ALA:HB3	2.20	0.41
6:E:545:PHE:CZ	6:E:552:LEU:HD12	2.56	0.41
6:E:602:ILE:HD12	6:E:603:SER:H	1.86	0.41
7:F:42:ARG:CA	7:F:45:GLU:OE1	2.67	0.41
7:F:63:ILE:HG13	7:F:64:GLU:H	1.82	0.41
8:G:101:ILE:HA	8:G:104:ALA:HB3	2.03	0.41
8:G:329:LEU:HD11	8:G:334:ARG:N	2.35	0.41
9:S:11:ALA:CB	9:S:24:LYS:NZ	2.84	0.41
9:S:64:LEU:N	9:S:65:PRO:CD	2.83	0.41
9:S:131:ALA:CB	9:S:145:VAL:HG21	2.49	0.41
9:S:188:LEU:HD13	9:S:210:PHE:CD2	2.54	0.41
9:S:206:VAL:O	9:S:209:LYS:N	2.53	0.41
9:S:290:ILE:CG2	9:S:294:TRP:HB2	2.37	0.41
9:T:69:LYS:O	9:T:70:ILE:C	2.62	0.41
9:T:91:GLU:O	9:T:92:LEU:HD23	2.21	0.41
9:T:121:LEU:O	9:T:122:ARG:CG	2.68	0.41
9:U:32:ILE:C	9:U:34:ARG:H	2.28	0.41
9:U:98:HIS:CE1	9:U:203:GLN:CB	3.03	0.41
9:U:155:ARG:C	9:U:285:LEU:CD2	2.93	0.41
9:U:188:LEU:HD13	9:U:239:ILE:HD12	2.02	0.41
9:V:56:LEU:HD11	9:V:61:GLU:CD	2.46	0.41
9:V:125:SER:HB2	9:V:200:TYR:CE1	2.54	0.41
9:V:174:ASN:HB2	9:V:255:THR:HG1	1.85	0.41
9:V:214:GLU:CG	9:V:266:LEU:HG	2.50	0.41
10:Y:164:CYS:SG	10:Y:209:LYS:HE2	2.61	0.41
2:2:35:DA:H2"	2:2:36:DT:H72	2.02	0.41
2:2:101:DA:C5	2:2:102:DT:C4	3.08	0.41
3:A:58:ASP:N	3:A:63:LEU:O	2.50	0.41
3:A:334:ASN:HA	3:A:337:ARG:HH21	1.84	0.41
3:A:372:ALA:O	3:A:375:LYS:CB	2.69	0.41
3:A:428:GLY:O	3:A:461:THR:HG21	2.21	0.41
3:A:516:PHE:CE2	4:B:157:LEU:N	2.64	0.41
3:A:516:PHE:HE2	4:B:155:ILE:HG13	1.85	0.41
3:A:522:GLU:N	3:A:522:GLU:CD	2.79	0.41
3:A:568:LYS:NZ	3:A:713:ILE:HD11	2.35	0.41
3:A:598:VAL:HG13	3:A:659:ILE:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:598:VAL:O	3:A:660:GLY:CA	2.68	0.41
3:A:598:VAL:CA	3:A:615:PRO:HD3	2.50	0.41
3:A:620:LYS:HD2	3:A:629:SER:O	2.20	0.41
3:A:866:LEU:HD12	3:A:866:LEU:HA	1.32	0.41
3:A:896:GLY:HA2	3:A:899:PHE:CD1	2.55	0.41
3:A:907:GLY:HA2	3:A:912:VAL:HB	2.02	0.41
3:A:1024:ALA:O	6:E:438:ARG:HG3	2.21	0.41
4:B:32:MET:HB2	6:E:623:LEU:CA	2.48	0.41
4:B:171:GLU:HA	4:B:174:ILE:HB	2.03	0.41
4:B:357:ILE:C	4:B:410:ILE:CG2	2.92	0.41
4:B:416:GLN:HB3	4:B:422:GLN:NE2	2.35	0.41
4:B:442:VAL:O	4:B:999:PHE:CE2	2.73	0.41
4:B:483:LEU:C	4:B:968:ALA:O	2.63	0.41
4:B:535:ARG:CB	4:B:840:LEU:H	2.33	0.41
4:B:569:ASN:HB2	4:B:751:ASP:HB3	2.02	0.41
4:B:572:PHE:HA	4:B:591:LEU:HA	2.01	0.41
4:B:573:ASN:C	4:B:574:LEU:HD12	2.45	0.41
4:B:613:LYS:O	4:B:614:LYS:C	2.63	0.41
4:B:638:GLU:OE1	4:B:683:GLU:HB2	2.19	0.41
4:B:848:ALA:O	4:B:849:THR:HB	2.19	0.41
4:B:885:ARG:HD3	4:B:967:ARG:HH22	1.85	0.41
4:B:974:VAL:CG1	4:B:975:SER:N	2.83	0.41
4:B:1178:GLU:O	4:B:1182:ILE:HG12	2.20	0.41
5:C:21:SER:HB3	5:C:23:PHE:CE1	2.52	0.41
5:C:141:ARG:O	5:C:142:ILE:HG12	2.21	0.41
5:C:205:SER:O	5:C:208:GLU:N	2.51	0.41
5:C:221:PHE:CE2	5:D:40:LEU:HD11	2.55	0.41
5:D:63:HIS:HA	5:D:64:GLU:OE1	2.19	0.41
5:D:80:MET:CG	6:E:534:TYR:HE1	2.23	0.41
5:D:92:SER:C	5:D:93:GLN:NE2	2.79	0.41
5:D:141:ARG:O	5:D:142:ILE:HG12	2.21	0.41
6:E:41:LYS:CG	6:E:55:ASP:HB3	2.50	0.41
6:E:80:ARG:HB3	8:G:346:GLY:N	2.35	0.41
6:E:108:LEU:H	6:E:108:LEU:HG	1.66	0.41
6:E:374:GLY:O	6:E:455:GLN:HB2	2.20	0.41
6:E:431:ASN:CG	6:E:432:ARG:N	2.79	0.41
6:E:476:HIS:C	6:E:477:VAL:HG23	2.45	0.41
6:E:481:LEU:C	6:E:483:SER:H	2.28	0.41
6:E:533:LYS:C	6:E:556:VAL:HG21	2.45	0.41
6:E:561:ASP:CB	6:E:604:GLN:HG3	2.50	0.41
7:F:31:ILE:HA	7:F:34:GLN:CD	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:56:LYS:O	7:F:59:LEU:HG	2.20	0.41
7:F:59:LEU:HA	7:F:62:ILE:HG13	2.01	0.41
8:G:107:ILE:O	8:G:110:LEU:CG	2.64	0.41
8:G:285:SER:O	8:G:286:LEU:HB3	2.20	0.41
9:S:9:PHE:CZ	9:S:60:GLY:HA3	2.55	0.41
9:S:73:GLU:HG3	9:T:66:ARG:CB	2.16	0.41
9:S:105:LEU:CD1	9:S:105:LEU:O	2.66	0.41
9:S:152:THR:HG22	9:S:153:THR:N	2.35	0.41
9:S:253:ASP:O	9:S:256:LEU:N	2.31	0.41
9:T:156:ASP:OD1	9:T:291:LYS:N	2.54	0.41
9:U:5:GLN:HA	9:U:32:ILE:HD13	2.02	0.41
9:U:20:LYS:O	9:U:21:ALA:CB	2.68	0.41
9:U:28:THR:HG22	9:U:30:SER:H	1.86	0.41
9:U:35:GLN:O	9:U:36:ILE:C	2.62	0.41
9:U:94:ILE:HG23	9:U:290:ILE:HG23	2.01	0.41
9:U:105:LEU:CG	9:U:301:ILE:HG22	2.50	0.41
9:V:15:THR:HG21	9:V:20:LYS:HB3	2.02	0.41
9:V:159:VAL:CA	9:V:278:MET:HG3	2.50	0.41
10:X:47:LEU:HD22	10:X:69:LEU:HG	2.02	0.41
10:X:197:LEU:HD21	10:X:218:LEU:HD21	2.02	0.41
10:Y:30:ARG:HE	10:Y:96:THR:HA	1.86	0.41
10:Y:47:LEU:H	10:Y:75:PHE:HD2	1.67	0.41
1:1:23:DC:H1'	1:1:24:DA:C8	2.55	0.41
1:1:117:DG:H2"	1:1:118:DG:H5"	2.03	0.41
2:2:84:DT:H2"	2:2:85:DT:C7	2.50	0.41
2:2:90:DG:OP2	9:T:31:THR:HG23	2.21	0.41
2:2:99:DA:P	9:U:20:LYS:HG2	2.60	0.41
3:A:46:LEU:HD21	3:A:47:ILE:HG12	2.02	0.41
3:A:152:GLU:OE2	3:A:161:TYR:N	2.53	0.41
3:A:175:PHE:CE1	3:A:185:VAL:HA	2.55	0.41
3:A:431:CYS:HB3	3:A:446:SER:CB	2.50	0.41
3:A:482:ALA:C	3:A:484:GLU:H	2.28	0.41
3:A:571:ARG:HB2	3:A:572:PRO:CD	2.51	0.41
3:A:574:VAL:HG21	3:A:903:LEU:HD23	2.01	0.41
3:A:578:LEU:HD12	3:A:578:LEU:HA	1.50	0.41
3:A:714:TYR:HD1	3:A:714:TYR:N	2.17	0.41
3:A:738:ARG:CD	3:A:755:GLY:H	2.27	0.41
3:A:740:ILE:HG23	3:A:741:PRO:HD3	2.01	0.41
3:A:752:ASP:O	3:A:756:ILE:N	2.54	0.41
3:A:1079:SER:C	3:A:1081:GLY:N	2.77	0.41
4:B:62:LYS:CE	4:B:143:MET:HG3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:76:THR:CG2	4:B:90:ARG:HB2	2.51	0.41
4:B:222:VAL:CG2	4:B:239:LEU:HD21	2.49	0.41
4:B:228:GLY:O	4:B:229:SER:C	2.59	0.41
4:B:307:LYS:O	4:B:308:MET:C	2.63	0.41
4:B:314:ALA:HB1	4:B:317:ILE:HG23	2.03	0.41
4:B:328:THR:C	4:B:330:LEU:H	2.29	0.41
4:B:357:ILE:CA	4:B:410:ILE:CG2	2.98	0.41
4:B:366:ARG:HG3	4:B:370:THR:HG23	2.03	0.41
4:B:637:HIS:N	4:B:684:VAL:O	2.53	0.41
4:B:701:ILE:HD11	4:B:728:VAL:HG23	2.02	0.41
4:B:830:LEU:HD13	4:B:830:LEU:HA	1.92	0.41
4:B:884:VAL:HA	4:B:899:VAL:HB	2.02	0.41
4:B:896:ARG:CG	4:B:987:LEU:H	2.33	0.41
4:B:1156:ASP:OD2	4:B:1189:GLN:CB	2.69	0.41
5:C:55:ALA:CB	5:C:141:ARG:HG3	2.50	0.41
5:C:123:PRO:C	5:C:124:THR:HG23	2.45	0.41
6:E:52:PRO:CG	6:E:60:GLU:HB3	2.51	0.41
6:E:94:THR:HB	6:E:95:GLU:OE1	2.21	0.41
6:E:129:LEU:HD13	6:E:196:LEU:CB	2.50	0.41
6:E:248:VAL:C	6:E:249:ILE:HD13	2.46	0.41
6:E:302:GLU:O	6:E:305:MET:N	2.52	0.41
6:E:540:ASP:OD1	6:E:541:VAL:HG13	2.21	0.41
6:E:543:MET:O	6:E:544:ALA:C	2.64	0.41
7:F:32:THR:O	7:F:35:VAL:CG2	2.55	0.41
7:F:59:LEU:C	7:F:62:ILE:HG12	2.46	0.41
8:G:111:LEU:HA	8:G:114:GLU:OE2	2.20	0.41
8:G:113:LEU:O	8:G:116:VAL:CG2	2.67	0.41
8:G:178:LEU:HB3	8:G:182:ASP:OD2	2.21	0.41
8:G:336:VAL:O	8:G:338:ARG:N	2.53	0.41
9:S:70:ILE:HG23	9:T:66:ARG:CG	2.50	0.41
9:S:132:LEU:HD23	9:U:24:LYS:HD2	1.99	0.41
9:S:132:LEU:CB	9:S:150:PHE:H	2.33	0.41
9:S:145:VAL:O	9:S:146:MET:C	2.63	0.41
9:S:176:PRO:HA	9:S:179:ALA:H	1.84	0.41
9:S:185:TRP:CD1	9:S:210:PHE:HA	2.56	0.41
9:S:292:HIS:ND1	9:S:293:PHE:N	2.69	0.41
9:T:26:GLY:C	9:T:27:VAL:HG23	2.46	0.41
9:T:45:LEU:HD21	9:T:58:LEU:C	2.45	0.41
9:T:116:TYR:CE1	10:Y:110:GLN:HG2	2.55	0.41
9:T:144:ILE:HG21	9:T:162:LEU:HD13	2.00	0.41
9:T:150:PHE:O	9:T:151:LEU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:T:164:ASP:CG	9:T:275:ARG:CD	2.92	0.41
9:T:261:LEU:HD12	9:T:261:LEU:HA	1.63	0.41
9:U:129:ASP:HB2	9:U:204:ARG:NH2	2.35	0.41
9:U:175:HIS:O	9:U:177:LEU:N	2.53	0.41
9:U:185:TRP:NE1	9:U:209:LYS:HZ1	2.17	0.41
9:U:189:VAL:O	9:U:190:ARG:C	2.62	0.41
9:U:204:ARG:O	9:U:206:VAL:N	2.53	0.41
9:V:10:LEU:HD21	9:V:64:LEU:HD21	2.02	0.41
9:V:167:ILE:CG2	9:V:243:PRO:HA	2.48	0.41
9:V:167:ILE:HA	9:V:243:PRO:C	2.46	0.41
9:V:177:LEU:CD1	9:V:191:TYR:CZ	3.04	0.41
9:V:180:TYR:CA	9:V:187:GLU:HB3	2.50	0.41
9:V:182:ARG:CA	9:V:259:ARG:HD3	2.50	0.41
10:X:45:TYR:O	10:X:46:PHE:HB3	2.20	0.41
10:X:156:LEU:HA	10:X:160:PHE:HE1	1.85	0.41
10:X:164:CYS:N	10:X:169:THR:HB	2.28	0.41
10:Y:50:GLY:H	10:Y:71:GLU:N	2.17	0.41
10:Y:105:ILE:O	10:Y:105:ILE:HG22	2.20	0.41
1:1:22:DG:OP1	2:2:107:DT:H4'	1.74	0.41
3:A:40:TRP:CZ3	3:A:44:GLU:OE2	2.74	0.41
3:A:286:PRO:HB2	3:A:287:ASP:H	1.60	0.41
3:A:309:TYR:CD2	3:A:309:TYR:O	2.73	0.41
3:A:500:ASN:ND2	3:A:502:TYR:OH	2.54	0.41
3:A:690:TYR:N	3:A:690:TYR:HD1	2.17	0.41
3:A:705:SER:C	3:A:707:ARG:N	2.78	0.41
3:A:706:GLU:CG	3:A:707:ARG:N	2.83	0.41
3:A:764:GLU:H	3:A:767:ASP:CG	2.26	0.41
3:A:875:PRO:HB3	3:A:960:TYR:CE2	2.54	0.41
3:A:905:TRP:C	3:A:905:TRP:HD1	2.18	0.41
3:A:1032:TYR:HD1	6:E:482:GLU:OE2	2.02	0.41
3:A:1096:SER:O	3:A:1097:SER:C	2.63	0.41
4:B:49:VAL:CG2	4:B:50:SER:N	2.80	0.41
4:B:212:ILE:HG22	4:B:296:GLN:CD	2.43	0.41
4:B:222:VAL:O	4:B:223:ARG:HD2	2.18	0.41
4:B:272:ILE:HD13	4:B:272:ILE:HG21	1.79	0.41
4:B:279:GLU:O	4:B:280:VAL:HB	2.19	0.41
4:B:316:GLY:HA2	4:B:319:ALA:HB3	2.03	0.41
4:B:360:PRO:HB2	4:B:361:ARG:HG2	2.01	0.41
4:B:460:PRO:O	4:B:461:GLU:C	2.62	0.41
4:B:488:TYR:CE1	4:B:878:SER:HB2	2.56	0.41
4:B:519:HIS:CB	4:B:806:GLU:HA	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:542:ALA:H	4:B:833:VAL:HG13	1.85	0.41
4:B:562:TYR:N	4:B:574:LEU:HD11	2.36	0.41
4:B:618:LYS:HG2	4:B:619:LEU:H	1.86	0.41
4:B:643:ILE:H	4:B:643:ILE:HG13	1.49	0.41
4:B:693:MET:HA	4:B:736:LEU:H	1.84	0.41
5:C:19:HIS:C	5:C:21:SER:HG	2.15	0.41
5:C:99:LEU:CA	5:C:113:ASP:OD2	2.68	0.41
5:C:183:VAL:HG23	5:C:192:ASP:HA	2.01	0.41
5:D:52:ALA:HB3	5:D:170:PHE:CD1	2.56	0.41
5:D:186:ASP:CB	5:D:190:PRO:HA	2.51	0.41
6:E:79:VAL:O	6:E:80:ARG:C	2.63	0.41
6:E:167:TRP:O	6:E:170:ILE:N	2.53	0.41
6:E:221:ARG:O	6:E:224:LEU:N	2.53	0.41
6:E:300:ARG:CA	6:E:303:LYS:HG2	2.44	0.41
6:E:316:ASN:HD21	6:E:323:VAL:N	2.19	0.41
6:E:541:VAL:H	6:E:541:VAL:HG22	1.44	0.41
6:E:619:ILE:O	6:E:620:GLN:C	2.63	0.41
7:F:15:MET:O	7:F:16:HIS:CE1	2.74	0.41
8:G:80:ASP:OD2	8:G:82:ILE:N	2.54	0.41
8:G:178:LEU:HD21	8:G:225:GLN:HG2	2.02	0.41
8:G:346:GLY:O	8:G:347:ARG:CB	2.67	0.41
9:S:128:SER:OG	9:S:145:VAL:HG11	2.17	0.41
9:S:132:LEU:HB2	9:S:150:PHE:H	1.85	0.41
9:S:242:LEU:HD11	9:S:246:ALA:HB3	2.01	0.41
9:S:268:GLU:O	9:S:270:SER:N	2.53	0.41
9:T:209:LYS:HD2	9:T:273:THR:N	2.34	0.41
9:U:142:LEU:CG	9:U:294:TRP:HB2	2.41	0.41
9:U:195:VAL:O	9:U:196:PHE:C	2.62	0.41
9:U:243:PRO:HD2	9:U:274:ARG:CZ	2.46	0.41
9:U:278:MET:CE	9:U:294:TRP:N	2.28	0.41
9:U:302:PRO:CB	9:U:303:PRO:HD3	2.50	0.41
9:V:22:ALA:CA	9:V:27:VAL:HB	2.51	0.41
9:V:107:PRO:O	9:V:111:LYS:HG3	2.21	0.41
9:V:196:PHE:HA	9:V:223:VAL:O	2.20	0.41
9:V:214:GLU:HG2	9:V:266:LEU:HG	2.03	0.41
10:X:35:PHE:O	10:X:91:HIS:CG	2.72	0.41
10:X:174:LEU:H	10:X:208:LYS:HG3	1.85	0.41
3:A:59:TYR:HD1	3:A:352:THR:HG21	1.85	0.41
3:A:75:LYS:C	3:A:94:GLN:NE2	2.78	0.41
3:A:98:PRO:CB	3:A:113:GLU:HA	2.50	0.41
3:A:104:LYS:O	4:B:557:GLN:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:105:GLU:CD	3:A:106:THR:N	2.78	0.41
3:A:135:ARG:HD3	3:A:135:ARG:HH11	1.70	0.41
3:A:141:ILE:O	3:A:142:VAL:HB	2.19	0.41
3:A:236:MET:SD	3:A:240:ARG:HB2	2.61	0.41
3:A:400:ARG:NH2	3:A:447:LEU:O	2.54	0.41
3:A:522:GLU:HB2	3:A:523:GLN:HB3	2.02	0.41
3:A:530:SER:HA	3:A:531:PRO:HD3	1.62	0.41
3:A:538:ALA:HB3	3:A:561:ARG:CZ	2.50	0.41
3:A:597:ASP:HB2	3:A:662:ARG:NH1	2.36	0.41
3:A:718:HIS:O	3:A:841:ALA:CB	2.68	0.41
3:A:819:LEU:CD1	3:A:836:VAL:HA	2.42	0.41
3:A:969:ASP:OD2	4:B:47:ALA:HA	2.20	0.41
3:A:1024:ALA:HB1	6:E:438:ARG:HA	2.02	0.41
3:A:1084:ILE:HG23	3:A:1086:VAL:HG22	2.03	0.41
3:A:1091:THR:O	3:A:1092:GLN:C	2.63	0.41
4:B:72:GLU:CD	4:B:97:THR:HG21	2.46	0.41
4:B:73:ILE:HG23	4:B:98:TRP:HE1	1.85	0.41
4:B:101:THR:O	4:B:102:SER:C	2.64	0.41
4:B:163:PHE:N	4:B:163:PHE:CD2	2.87	0.41
4:B:219:GLY:HA2	4:B:287:THR:HG21	2.02	0.41
4:B:220:ILE:CG2	4:B:221:PRO:HD2	2.50	0.41
4:B:270:LYS:HE3	4:B:274:LYS:HE3	2.03	0.41
4:B:330:LEU:HD21	4:B:1128:VAL:HG12	2.02	0.41
4:B:467:GLN:O	4:B:467:GLN:HG2	2.21	0.41
4:B:533:SER:CA	4:B:535:ARG:HG2	2.50	0.41
4:B:552:THR:OG1	4:B:563:LEU:HB2	2.21	0.41
4:B:572:PHE:HD1	4:B:589:ALA:O	2.04	0.41
4:B:587:VAL:HG12	4:B:794:GLN:NE2	2.36	0.41
4:B:633:PRO:O	4:B:688:PRO:HD3	2.20	0.41
4:B:723:ARG:HB3	4:B:738:SER:OG	2.20	0.41
4:B:883:ILE:H	4:B:900:LEU:HB3	1.86	0.41
4:B:1122:VAL:HG22	4:B:1141:ILE:HG22	2.02	0.41
4:B:1127:MET:C	4:B:1129:TYR:N	2.77	0.41
4:B:1148:MET:SD	4:B:1148:MET:O	2.79	0.41
4:B:1246:PRO:CA	4:B:1251:TYR:CD1	3.02	0.41
5:D:79:ILE:HG23	6:E:534:TYR:HH	1.83	0.41
5:D:104:PRO:C	5:D:105:THR:OG1	2.63	0.41
5:D:150:THR:HB	5:D:152:GLU:OE2	2.21	0.41
6:E:32:ASN:OD1	6:E:34:GLN:HG2	2.20	0.41
6:E:45:ILE:CB	6:E:51:LYS:C	2.94	0.41
6:E:203:GLU:C	6:E:205:GLU:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:291:GLU:C	6:E:293:LEU:N	2.71	0.41
6:E:623:LEU:HD12	6:E:623:LEU:C	2.35	0.41
8:G:89:ILE:HA	8:G:92:ILE:CD1	2.50	0.41
8:G:113:LEU:O	8:G:117:ARG:HG3	2.21	0.41
8:G:340:ARG:CG	8:G:341:TYR:N	2.75	0.41
8:G:376:LEU:HG	8:G:377:ARG:CG	2.51	0.41
9:S:144:ILE:C	9:S:145:VAL:HG23	2.46	0.41
9:S:162:LEU:HD12	9:S:163:TYR:HB2	2.03	0.41
9:T:123:VAL:HG12	9:V:225:THR:HG23	2.00	0.41
9:T:168:GLU:O	9:T:241:LEU:HB3	2.21	0.41
9:T:288:PRO:CD	9:T:291:LYS:CE	2.93	0.41
9:T:293:PHE:HE1	9:T:296:LEU:O	2.02	0.41
9:V:145:VAL:HB	9:V:277:VAL:HB	2.03	0.41
9:V:150:PHE:O	9:V:150:PHE:CG	2.74	0.41
9:V:172:ALA:HB3	9:V:175:HIS:H	1.85	0.41
9:V:195:VAL:HB	9:V:206:VAL:HG12	2.02	0.41
9:V:279:VAL:O	9:V:280:THR:OG1	2.32	0.41
10:X:63:GLU:HG3	10:X:91:HIS:O	2.21	0.41
10:X:78:LEU:HD12	10:X:90:TYR:OH	2.13	0.41
10:X:105:ILE:O	10:X:105:ILE:HG22	2.20	0.41
10:X:118:LEU:CD2	10:X:121:LEU:CD1	2.98	0.41
10:X:156:LEU:HD23	10:X:157:CYS:N	2.36	0.41
10:Y:115:ASN:ND2	10:Y:117:GLU:HB2	2.36	0.41
10:Y:205:ILE:HA	10:Y:210:ILE:CG1	2.46	0.41
1:1:18:DA:C5	1:1:19:DA:C6	3.08	0.41
1:1:23:DC:H2"	1:1:24:DA:N7	2.36	0.41
1:1:29:DC:H1'	1:1:30:DT:OP2	2.21	0.41
1:1:44:DG:O6	2:2:82:DC:C4	2.72	0.41
1:1:45:DC:O2	1:1:46:DA:O4'	2.38	0.41
3:A:33:ILE:HD13	3:A:33:ILE:HA	1.35	0.41
3:A:33:ILE:CB	3:A:34:GLN:OE1	2.67	0.41
3:A:41:PHE:CD1	3:A:45:GLY:HA3	2.52	0.41
3:A:140:GLN:CA	3:A:403:SER:O	2.68	0.41
3:A:159:ARG:HH11	3:A:160:THR:N	2.17	0.41
3:A:166:ILE:HD11	3:A:172:TRP:CE3	2.56	0.41
3:A:173:LEU:HD11	3:A:261:PHE:HZ	1.85	0.41
3:A:183:VAL:O	3:A:184:TRP:CE2	2.74	0.41
3:A:257:LEU:N	3:A:258:ASP:OD1	2.54	0.41
3:A:305:ILE:O	3:A:308:GLU:HB3	2.21	0.41
3:A:447:LEU:O	3:A:448:ALA:C	2.63	0.41
3:A:469:GLY:O	3:A:502:TYR:HD1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:473:PHE:O	3:A:473:PHE:CD2	2.73	0.41
3:A:520:THR:C	3:A:522:GLU:CD	2.89	0.41
3:A:525:ASP:OD2	3:A:526:TYR:CZ	2.73	0.41
3:A:589:VAL:CG1	3:A:675:THR:HG21	2.49	0.41
3:A:608:VAL:HG21	3:A:619:GLY:HA3	2.01	0.41
3:A:674:SER:C	3:A:681:ALA:CB	2.94	0.41
3:A:754:GLN:N	3:A:754:GLN:CD	2.75	0.41
3:A:788:LEU:HD21	8:G:390:ARG:HG3	2.03	0.41
3:A:888:GLY:CA	3:A:892:ARG:HH11	2.30	0.41
3:A:1036:GLU:O	3:A:1039:THR:OG1	2.16	0.41
4:B:120:ASN:O	4:B:124:MET:CG	2.66	0.41
4:B:283:ARG:NH2	4:B:295:CYS:CB	2.84	0.41
4:B:283:ARG:NH2	4:B:298:CYS:N	2.69	0.41
4:B:296:GLN:OE1	4:B:297:HIS:N	2.54	0.41
4:B:495:GLU:CA	4:B:890:GLY:CA	2.98	0.41
4:B:514:LYS:HA	4:B:873:ARG:HG2	2.03	0.41
4:B:553:VAL:HG22	4:B:554:GLN:N	2.35	0.41
4:B:597:ARG:NH1	4:B:791:LEU:O	2.54	0.41
4:B:663:ASP:O	4:B:664:ILE:HG12	2.21	0.41
4:B:664:ILE:C	4:B:665:PHE:CD2	2.99	0.41
4:B:688:PRO:HG2	4:B:740:PRO:CG	2.50	0.41
4:B:726:GLN:CD	4:B:737:LEU:HD23	2.46	0.41
4:B:766:ILE:HG22	4:B:767:GLN:N	2.35	0.41
4:B:852:SER:N	4:B:876:ILE:O	2.53	0.41
4:B:896:ARG:HA	4:B:987:LEU:HB2	2.01	0.41
5:C:6:ILE:HD13	5:D:226:ASP:HA	2.02	0.41
5:C:161:LEU:C	5:C:163:PHE:N	2.77	0.41
5:D:16:SER:O	5:D:17:ARG:C	2.63	0.41
5:D:19:HIS:CD2	5:D:205:SER:HA	2.55	0.41
5:D:22:LYS:O	5:D:23:PHE:CD1	2.73	0.41
5:D:26:GLU:HA	5:D:193:ARG:HG3	2.03	0.41
5:D:57:ARG:HB2	5:D:139:GLU:OE1	2.20	0.41
5:D:90:TYR:HE2	9:U:155:ARG:CZ	2.34	0.41
6:E:401:ILE:HD11	8:G:314:SER:CB	2.50	0.41
6:E:431:ASN:ND2	6:E:432:ARG:O	2.54	0.41
6:E:482:GLU:N	6:E:482:GLU:CD	2.66	0.41
7:F:32:THR:HG23	7:F:32:THR:H	1.31	0.41
7:F:39:ALA:O	7:F:42:ARG:N	2.53	0.41
7:F:62:ILE:O	7:F:65:MET:CB	2.65	0.41
8:G:82:ILE:HG23	8:G:180:PHE:HE2	1.85	0.41
8:G:169:ILE:H	8:G:169:ILE:HG12	1.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:227:ARG:HH21	8:G:231:LEU:CD1	2.34	0.41
8:G:230:ARG:HE	8:G:230:ARG:HB3	1.38	0.41
9:S:195:VAL:HB	9:S:219:ALA:HA	2.02	0.41
9:T:69:LYS:HG3	9:T:73:GLU:OE1	2.21	0.41
9:T:95:ALA:N	9:T:142:LEU:O	2.54	0.41
9:T:136:LYS:NZ	9:T:279:VAL:HG11	2.35	0.41
9:T:196:PHE:CA	9:T:203:GLN:HB2	2.50	0.41
9:T:234:ARG:HG2	9:V:105:LEU:HD23	2.02	0.41
9:U:45:LEU:HB3	9:U:59:GLY:O	2.20	0.41
9:U:170:LEU:CD2	9:U:247:LEU:HA	2.51	0.41
9:U:181:GLU:O	9:U:182:ARG:C	2.61	0.41
9:U:183:VAL:O	9:U:184:PRO:C	2.62	0.41
9:U:207:GLN:HB3	9:U:241:LEU:CD1	2.51	0.41
9:V:183:VAL:O	9:V:183:VAL:HG23	2.20	0.41
10:X:46:PHE:CE2	10:X:48:LEU:CD2	2.95	0.41
10:X:115:ASN:ND2	10:X:117:GLU:HB2	2.36	0.41
10:X:170:ILE:HG22	10:X:172:LEU:H	1.85	0.41
10:Y:56:ARG:CG	10:Y:66:VAL:HB	2.50	0.41
10:Y:168:ILE:C	10:Y:211:THR:HG21	2.46	0.41
10:Y:178:ALA:HA	10:Y:181:GLU:OE2	2.21	0.41
2:2:64:DA:N3	2:2:65:DA:C2	2.89	0.41
2:2:66:DA:H2"	2:2:67:DA:OP2	2.21	0.41
2:2:92:DA:N6	9:T:34:ARG:HD2	2.30	0.41
3:A:104:LYS:O	4:B:557:GLN:C	2.63	0.41
3:A:104:LYS:NZ	4:B:559:ARG:CZ	2.84	0.41
3:A:115:PHE:HZ	3:A:118:ASP:H	1.69	0.41
3:A:130:ILE:HG13	3:A:130:ILE:O	2.04	0.41
3:A:192:LYS:HB2	3:A:194:SER:HB3	2.02	0.41
3:A:215:HIS:CG	3:A:219:PHE:CD2	3.07	0.41
3:A:252:GLY:C	3:A:255:GLN:HE21	2.24	0.41
3:A:264:PRO:HD2	3:A:265:LYS:H	1.86	0.41
3:A:275:TYR:CZ	3:A:279:LYS:NZ	2.80	0.41
3:A:289:VAL:O	3:A:289:VAL:HG13	2.20	0.41
3:A:314:ILE:HG13	3:A:315:ASP:N	2.36	0.41
3:A:389:GLN:NE2	3:A:646:ASN:H	2.18	0.41
3:A:399:LYS:HD3	3:A:399:LYS:HA	1.24	0.41
3:A:584:ARG:HG3	3:A:591:VAL:CG1	2.51	0.41
3:A:608:VAL:O	3:A:608:VAL:CG2	2.67	0.41
3:A:644:ARG:HH22	3:A:837:ARG:HH21	1.67	0.41
3:A:740:ILE:O	3:A:743:VAL:CG1	2.67	0.41
3:A:765:ALA:CA	3:A:808:ASN:HA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:901:CYS:SG	3:A:975:GLY:C	3.04	0.41
3:A:929:ARG:HG2	3:A:929:ARG:H	1.63	0.41
3:A:931:ILE:HG13	3:A:931:ILE:H	1.39	0.41
3:A:1019:GLU:HA	3:A:1022:VAL:HG22	2.03	0.41
3:A:1053:ASN:O	3:A:1056:VAL:N	2.53	0.41
3:A:1053:ASN:ND2	8:G:313:VAL:HG12	2.36	0.41
3:A:1060:ALA:O	3:A:1061:ILE:C	2.63	0.41
4:B:31:VAL:O	4:B:34:ASP:HB2	2.21	0.41
4:B:52:SER:OG	4:B:53:VAL:N	2.46	0.41
4:B:63:ARG:O	4:B:66:LEU:HB3	2.21	0.41
4:B:90:ARG:HD2	4:B:91:PHE:N	2.35	0.41
4:B:125:MET:HE2	4:B:125:MET:HB2	1.75	0.41
4:B:180:ARG:O	4:B:183:LEU:CB	2.65	0.41
4:B:260:ARG:HG3	4:B:261:ASN:N	2.36	0.41
4:B:278:ALA:O	4:B:279:GLU:CD	2.63	0.41
4:B:305:HIS:C	4:B:307:LYS:N	2.79	0.41
4:B:318:ILE:HG12	6:E:438:ARG:HH11	1.85	0.41
4:B:370:THR:O	4:B:371:ARG:C	2.63	0.41
4:B:481:TRP:HE1	4:B:971:PRO:CG	2.31	0.41
4:B:533:SER:C	4:B:535:ARG:N	2.78	0.41
4:B:548:GLN:CA	4:B:827:VAL:HG21	2.38	0.41
4:B:606:PHE:HA	4:B:630:LEU:N	2.35	0.41
4:B:631:TRP:CD1	4:B:633:PRO:HG3	2.55	0.41
4:B:663:ASP:O	4:B:664:ILE:HD13	2.21	0.41
4:B:676:GLN:NE2	4:B:681:LEU:HB3	2.35	0.41
4:B:700:VAL:HG21	4:B:730:SER:HB3	2.02	0.41
4:B:726:GLN:HB2	4:B:737:LEU:HG	2.01	0.41
4:B:856:SER:O	4:B:872:ALA:HA	2.21	0.41
4:B:1023:PRO:O	4:B:1088:SER:HA	2.20	0.41
4:B:1099:SER:OG	4:B:1100:LEU:N	2.54	0.41
4:B:1113:ALA:O	4:B:1116:LYS:HB2	2.19	0.41
4:B:1190:TYR:HD2	4:B:1192:PRO:HD3	1.86	0.41
4:B:1191:THR:HA	4:B:1192:PRO:HD2	1.30	0.41
5:C:18:ASN:ND2	5:C:199:TRP:CG	2.89	0.41
5:C:18:ASN:HB2	5:C:199:TRP:HB3	2.03	0.41
5:C:24:ILE:CG2	5:C:25:LEU:H	2.33	0.41
5:C:41:ARG:NH1	5:C:177:ASN:N	2.62	0.41
5:C:42:ARG:NH2	5:D:35:THR:H	2.18	0.41
5:C:80:MET:O	5:C:84:GLU:OE2	2.38	0.41
5:C:197:GLU:CD	5:C:199:TRP:NE1	2.74	0.41
5:D:26:GLU:HG2	5:D:193:ARG:HE	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:45:LEU:HD13	5:D:171:MET:CE	2.51	0.41
6:E:28:ARG:NH2	6:E:102:ARG:HG2	2.36	0.41
6:E:111:PRO:HG2	6:E:191:GLU:HG3	2.03	0.41
6:E:152:ASN:HD21	6:E:158:TYR:HB2	1.86	0.41
6:E:274:ASP:C	6:E:277:ARG:H	2.29	0.41
6:E:277:ARG:NH1	8:G:227:ARG:N	2.67	0.41
6:E:292:ILE:O	6:E:293:LEU:C	2.60	0.41
6:E:346:ARG:NE	6:E:350:LEU:CD2	2.83	0.41
6:E:360:SER:HB2	6:E:454:ILE:CD1	2.51	0.41
6:E:372:GLN:HB2	6:E:445:GLU:HB2	2.03	0.41
6:E:415:VAL:O	6:E:418:VAL:N	2.54	0.41
6:E:415:VAL:HB	6:E:416:TRP:CD1	2.56	0.41
6:E:443:ALA:O	6:E:492:LEU:HD12	2.20	0.41
6:E:502:THR:C	6:E:504:ARG:H	2.27	0.41
6:E:582:GLY:HA2	6:E:596:ASP:CA	2.48	0.41
7:F:42:ARG:N	7:F:42:ARG:CD	2.76	0.41
7:F:58:VAL:H	7:F:58:VAL:HG12	1.47	0.41
8:G:107:ILE:O	8:G:108:ALA:O	2.38	0.41
8:G:110:LEU:HD21	8:G:155:LYS:HD2	2.03	0.41
8:G:117:ARG:C	8:G:117:ARG:CD	2.94	0.41
8:G:124:LEU:HA	8:G:126:ARG:HH12	1.85	0.41
8:G:218:ILE:O	8:G:222:ILE:HG23	2.21	0.41
8:G:263:ALA:O	8:G:267:GLU:N	2.54	0.41
8:G:318:LEU:HD21	8:G:390:ARG:NH2	2.36	0.41
8:G:326:LEU:CD2	8:G:338:ARG:CG	2.88	0.41
9:S:3:LEU:O	9:S:6:LEU:HB3	2.20	0.41
9:S:15:THR:HB	9:S:20:LYS:HG2	2.03	0.41
9:S:47:LEU:O	9:S:57:THR:CG2	2.67	0.41
9:S:60:GLY:CA	9:S:63:LEU:HB3	2.45	0.41
9:S:108:VAL:CG1	9:S:297:VAL:HA	2.51	0.41
9:S:127:GLY:O	9:S:131:ALA:HB2	2.20	0.41
9:S:132:LEU:HD21	9:U:24:LYS:HD3	1.98	0.41
9:S:135:LEU:HD12	9:S:135:LEU:HA	1.47	0.41
9:T:6:LEU:HD13	9:T:9:PHE:HD2	1.85	0.41
9:T:88:LYS:HZ1	9:T:90:PRO:HB3	1.86	0.41
9:T:180:TYR:O	9:T:188:LEU:CG	2.65	0.41
9:T:192:PRO:O	9:T:238:LEU:CD2	2.69	0.41
9:T:235:GLN:HB3	9:T:238:LEU:H	1.86	0.41
9:T:273:THR:O	9:T:273:THR:HG22	2.21	0.41
9:U:107:PRO:HA	9:U:110:GLN:CD	2.46	0.41
9:U:126:LEU:HD12	9:U:126:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:168:GLU:HA	9:U:261:LEU:H	1.86	0.41
9:U:176:PRO:CD	9:U:239:ILE:HD11	2.50	0.41
9:U:197:LYS:HD2	9:U:198:ASP:H	1.86	0.41
9:V:2:ARG:O	9:V:6:LEU:HB2	2.21	0.41
9:V:93:CYS:CB	9:V:141:ASP:HB3	2.28	0.41
9:V:134:VAL:C	9:V:136:LYS:N	2.79	0.41
9:V:146:MET:CG	9:V:274:ARG:CG	2.99	0.41
9:V:147:ASN:HA	9:V:150:PHE:CD1	2.56	0.41
9:V:158:VAL:HG12	9:V:294:TRP:CZ2	2.56	0.41
9:V:180:TYR:HD1	9:V:187:GLU:O	2.03	0.41
9:V:188:LEU:CD2	9:V:213:LEU:HD11	2.44	0.41
9:V:223:VAL:HG11	9:V:228:ALA:HB3	2.02	0.41
10:X:27:THR:C	10:X:28:PHE:CD1	2.99	0.41
10:X:135:MET:O	10:X:138:GLU:HG2	2.21	0.41
10:X:150:VAL:HG21	10:X:218:LEU:HB3	2.02	0.41
10:Y:108:VAL:O	10:Y:111:ALA:CA	2.68	0.41
10:Y:167:GLY:O	10:Y:169:THR:N	2.54	0.41
10:Y:195:GLY:HA2	10:Y:198:ARG:HB2	2.02	0.41
10:Y:204:SER:HB3	10:Y:206:HIS:CE1	2.55	0.41
3:A:176:GLU:OE1	3:A:184:TRP:O	2.39	0.41
3:A:396:LEU:HD13	3:A:396:LEU:HA	1.19	0.41
3:A:410:LEU:HD23	3:A:410:LEU:HA	1.29	0.41
3:A:421:ASP:HB3	3:A:422:ILE:H	1.12	0.41
3:A:423:HIS:HB3	3:A:426:HIS:CD2	2.56	0.41
3:A:495:ILE:CD1	3:A:508:VAL:HG11	2.51	0.41
3:A:645:SER:OG	3:A:649:THR:CA	2.68	0.41
3:A:745:GLU:HA	3:A:748:LEU:CB	2.50	0.41
3:A:784:GLU:O	3:A:785:GLU:C	2.62	0.41
3:A:796:ALA:O	3:A:797:ARG:HG3	2.21	0.41
3:A:866:LEU:HG	3:A:867:PRO:CG	2.49	0.41
3:A:873:TYR:C	3:A:873:TYR:CD2	2.99	0.41
3:A:967:ALA:C	3:A:968:PHE:O	2.60	0.41
3:A:1021:GLU:C	3:A:1023:TRP:N	2.76	0.41
3:A:1040:VAL:O	3:A:1041:LYS:HG3	2.21	0.41
4:B:89:GLU:CA	4:B:370:THR:HA	2.50	0.41
4:B:107:ASP:HA	4:B:110:VAL:CG2	2.50	0.41
4:B:192:ASP:O	4:B:193:SER:C	2.64	0.41
4:B:229:SER:OG	4:B:385:MET:CE	2.69	0.41
4:B:245:GLY:HA3	4:B:260:ARG:NH1	2.35	0.41
4:B:250:HIS:CE1	4:B:254:LYS:C	2.99	0.41
4:B:257:ILE:CG2	4:B:258:ALA:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:296:GLN:C	4:B:298:CYS:N	2.76	0.41
4:B:696:ASP:O	4:B:697:PRO:C	2.64	0.41
4:B:1049:ILE:HG23	4:B:1064:GLY:N	2.36	0.41
4:B:1063:LEU:HD23	4:B:1064:GLY:N	2.36	0.41
4:B:1091:HIS:CD2	4:B:1194:LEU:HD12	2.54	0.41
4:B:1111:SER:CA	4:B:1114:LEU:HG	2.51	0.41
4:B:1191:THR:HG22	4:B:1192:PRO:O	2.20	0.41
4:B:1214:GLN:C	4:B:1215:GLU:HG3	2.45	0.41
5:C:60:GLY:HA2	5:C:136:LEU:HD13	2.01	0.41
5:C:119:GLU:OE1	5:C:121:ILE:HA	2.21	0.41
5:C:220:LEU:O	5:C:223:PRO:HD3	2.21	0.41
5:D:15:GLU:O	5:D:16:SER:HB2	2.21	0.41
5:D:31:GLY:C	5:D:33:GLY:N	2.79	0.41
5:D:34:THR:O	5:D:38:ASN:N	2.44	0.41
5:D:87:LEU:HD12	5:D:87:LEU:O	2.21	0.41
5:D:101:VAL:HG22	5:D:102:ASN:N	2.36	0.41
5:D:148:TYR:O	5:D:148:TYR:HD1	2.02	0.41
5:D:186:ASP:HB3	5:D:190:PRO:HA	2.02	0.41
6:E:39:VAL:CG2	6:E:40:THR:N	2.83	0.41
6:E:215:SER:O	6:E:216:ALA:C	2.63	0.41
6:E:281:ASN:CB	6:E:285:ARG:CZ	2.87	0.41
6:E:295:PRO:O	6:E:298:ILE:HG12	2.21	0.41
6:E:454:ILE:CG2	6:E:455:GLN:H	2.23	0.41
7:F:34:GLN:O	7:F:37:ASN:CA	2.68	0.41
7:F:57:PRO:O	7:F:60:ARG:HG2	2.21	0.41
8:G:85:TYR:C	8:G:87:GLN:N	2.71	0.41
8:G:110:LEU:CG	8:G:111:LEU:N	2.84	0.41
8:G:138:GLN:O	8:G:139:LEU:CD2	2.68	0.41
8:G:162:ASN:OD1	8:G:206:PHE:CZ	2.74	0.41
9:S:108:VAL:O	9:S:293:PHE:CE1	2.74	0.41
9:S:127:GLY:H	9:S:131:ALA:N	2.19	0.41
9:T:24:LYS:HG2	9:V:132:LEU:HD21	1.99	0.41
9:T:145:VAL:HB	9:T:278:MET:HB2	2.00	0.41
9:U:133:LYS:O	9:U:134:VAL:C	2.64	0.41
9:U:160:GLU:HG2	9:U:298:ARG:O	2.21	0.41
9:U:296:LEU:O	9:U:297:VAL:CB	2.67	0.41
9:V:3:LEU:HD12	9:V:4:GLU:H	1.72	0.41
10:X:78:LEU:HD23	10:X:88:ARG:CG	2.29	0.41
10:X:145:MET:HA	10:X:148:ARG:CZ	2.50	0.41
10:X:197:LEU:CD2	10:X:218:LEU:HD21	2.51	0.41
10:Y:33:THR:HA	10:Y:91:HIS:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Y:63:GLU:HG3	10:Y:91:HIS:O	2.21	0.41
10:Y:213:HIS:O	10:Y:214:LYS:HD3	2.21	0.41
2:2:79:DA:OP2	9:S:33:SER:CB	2.69	0.40
2:2:110:DT:H2'	2:2:111:DT:H71	1.97	0.40
3:A:47:ILE:O	3:A:48:GLU:C	2.64	0.40
3:A:189:LYS:HD2	3:A:242:LEU:HD11	2.02	0.40
3:A:249:THR:C	3:A:252:GLY:H	2.28	0.40
3:A:298:LEU:HA	3:A:301:VAL:HG23	2.02	0.40
3:A:373:ALA:O	3:A:377:PHE:CD2	2.74	0.40
3:A:470:ARG:HH21	3:A:472:ARG:N	2.19	0.40
3:A:497:VAL:H	3:A:497:VAL:HG22	1.58	0.40
3:A:737:THR:C	3:A:754:GLN:O	2.65	0.40
3:A:876:ASP:HB3	3:A:947:TRP:NE1	2.35	0.40
4:B:13:LEU:O	4:B:16:LEU:CB	2.69	0.40
4:B:27:ALA:HA	4:B:30:ALA:HB3	2.02	0.40
4:B:170:THR:HG23	4:B:170:THR:H	0.97	0.40
4:B:264:ILE:HG23	4:B:264:ILE:O	2.21	0.40
4:B:286:LEU:C	4:B:287:THR:HG23	2.46	0.40
4:B:301:TRP:CD2	4:B:307:LYS:HA	2.56	0.40
4:B:332:MET:HE3	4:B:332:MET:HB2	1.66	0.40
4:B:373:GLY:O	4:B:375:ASP:HB3	2.21	0.40
4:B:482:ILE:C	4:B:484:SER:N	2.78	0.40
4:B:804:GLU:HA	4:B:807:HIS:HB3	2.03	0.40
4:B:921:LEU:HD23	4:B:939:GLN:HE21	1.87	0.40
4:B:1023:PRO:C	4:B:1025:GLU:H	2.28	0.40
4:B:1232:LEU:HG	6:E:9:PHE:CE1	2.56	0.40
5:C:25:LEU:O	5:C:25:LEU:HD23	2.20	0.40
5:C:56:VAL:HG12	5:C:164:LEU:C	2.47	0.40
5:C:98:ARG:H	5:C:113:ASP:HB3	1.84	0.40
5:D:18:ASN:N	5:D:200:THR:O	2.27	0.40
5:D:44:LEU:HD21	5:D:198:VAL:CG1	2.46	0.40
5:D:141:ARG:C	5:D:142:ILE:HG12	2.46	0.40
5:D:159:THR:O	5:D:159:THR:CG2	2.63	0.40
5:D:172:PRO:HB3	5:D:200:THR:HG1	1.86	0.40
6:E:46:ASN:OD1	6:E:47:TYR:C	2.64	0.40
6:E:94:THR:CB	6:E:95:GLU:CD	2.94	0.40
6:E:193:LEU:C	6:E:197:LEU:HG	2.43	0.40
6:E:272:LEU:HD21	6:E:334:LEU:N	2.37	0.40
8:G:298:LEU:HD12	8:G:298:LEU:HA	1.72	0.40
8:G:315:LYS:O	8:G:316:ASN:C	2.63	0.40
9:S:9:PHE:C	9:S:12:ILE:HB	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:S:9:PHE:HZ	9:S:60:GLY:HA3	1.86	0.40
9:S:46:GLU:OE1	9:S:50:ARG:HB2	2.21	0.40
9:S:70:ILE:CG2	9:T:66:ARG:HD2	2.38	0.40
9:S:106:PRO:HA	9:S:109:LEU:CD2	2.51	0.40
9:S:110:GLN:O	9:S:114:ARG:N	2.49	0.40
9:T:156:ASP:CG	9:T:291:LYS:HG3	2.42	0.40
9:T:190:ARG:O	9:T:190:ARG:CG	2.69	0.40
9:U:28:THR:CG2	9:U:29:GLN:N	2.84	0.40
9:U:39:LEU:O	9:U:40:GLU:C	2.63	0.40
9:U:64:LEU:HA	9:U:67:ALA:CB	2.51	0.40
9:U:69:LYS:HG3	9:U:73:GLU:OE1	2.21	0.40
9:U:82:GLY:HA2	9:U:85:ILE:HG13	2.03	0.40
9:U:169:LEU:HD12	9:U:242:LEU:O	2.21	0.40
9:U:176:PRO:O	9:U:179:ALA:N	2.54	0.40
9:U:253:ASP:HA	9:U:254:PRO:HD3	1.71	0.40
9:U:278:MET:HE3	9:U:293:PHE:CD2	2.56	0.40
9:V:4:GLU:O	9:V:5:GLN:C	2.63	0.40
9:V:143:ALA:O	9:V:162:LEU:HD13	2.21	0.40
9:V:161:VAL:HB	9:V:298:ARG:HA	2.03	0.40
9:V:210:PHE:HB3	9:V:217:LEU:HB2	2.03	0.40
9:V:225:THR:C	9:V:227:ASP:N	2.79	0.40
9:V:256:LEU:O	9:V:256:LEU:HG	2.20	0.40
10:X:30:ARG:O	10:X:32:LYS:HG3	2.21	0.40
10:X:52:VAL:CG2	10:X:94:ALA:HA	2.44	0.40
10:X:149:LEU:HG	10:X:179:ILE:HD11	2.02	0.40
10:Y:64:ILE:HB	10:Y:66:VAL:CG2	2.51	0.40
10:Y:195:GLY:HA2	10:Y:198:ARG:NE	2.34	0.40
2:2:101:DA:H2'	2:2:102:DT:H72	2.02	0.40
3:A:35:ARG:NE	3:A:39:ARG:HD3	2.36	0.40
3:A:82:GLU:C	3:A:86:ARG:HG3	2.42	0.40
3:A:110:LYS:HD3	3:A:110:LYS:H	1.86	0.40
3:A:149:TYR:CG	3:A:315:ASP:OD2	2.74	0.40
3:A:427:TYR:HB3	3:A:511:ARG:NH1	2.33	0.40
3:A:503:ILE:H	3:A:503:ILE:HG12	1.39	0.40
3:A:566:LEU:HD13	3:A:981:LYS:HE2	2.02	0.40
3:A:601:VAL:O	3:A:601:VAL:HG22	2.21	0.40
3:A:610:VAL:HG22	3:A:634:GLU:OE2	2.22	0.40
3:A:689:ALA:HA	3:A:974:ILE:HA	2.02	0.40
3:A:874:LEU:N	3:A:878:SER:O	2.54	0.40
3:A:922:MET:C	3:A:924:GLY:N	2.78	0.40
3:A:1007:GLY:CA	3:A:1014:GLY:N	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1026:GLU:O	3:A:1029:GLY:N	2.55	0.40
4:B:10:LYS:CD	4:B:14:ARG:CZ	2.97	0.40
4:B:121:SER:O	4:B:122:VAL:C	2.64	0.40
4:B:212:ILE:CG1	4:B:213:ASP:N	2.83	0.40
4:B:239:LEU:O	4:B:240:LEU:HD23	2.22	0.40
4:B:357:ILE:CG2	4:B:408:SER:HB3	2.51	0.40
4:B:555:SER:HA	4:B:559:ARG:C	2.46	0.40
4:B:596:TYR:HB2	4:B:791:LEU:CB	2.35	0.40
4:B:596:TYR:CB	4:B:790:LEU:HB2	2.47	0.40
4:B:760:GLN:NE2	4:B:764:ARG:HE	2.17	0.40
4:B:1022:LYS:O	4:B:1025:GLU:HG3	2.21	0.40
4:B:1107:TYR:O	4:B:1110:ALA:CB	2.69	0.40
5:C:92:SER:C	5:C:93:GLN:NE2	2.79	0.40
5:C:102:ASN:O	5:C:103:GLY:O	2.39	0.40
5:C:126:TYR:CE1	5:C:128:ALA:N	2.89	0.40
5:C:148:TYR:CD1	5:C:149:ARG:HG3	2.57	0.40
5:D:215:GLY:O	5:D:216:ILE:C	2.64	0.40
6:E:19:PRO:CG	6:E:247:THR:HG21	2.51	0.40
6:E:141:TYR:CD1	6:E:304:ARG:CD	3.01	0.40
6:E:145:TYR:HB2	6:E:187:GLY:C	2.46	0.40
6:E:358:GLY:H	6:E:475:VAL:C	2.28	0.40
6:E:379:MET:HE1	6:E:475:VAL:HG23	1.89	0.40
6:E:473:MET:HG3	6:E:474:ALA:H	1.85	0.40
6:E:587:LEU:CA	6:E:592:ARG:NH1	2.83	0.40
6:E:621:GLU:O	6:E:622:ALA:C	2.64	0.40
8:G:99:GLU:N	8:G:99:GLU:OE2	2.54	0.40
8:G:227:ARG:C	8:G:229:ILE:N	2.58	0.40
8:G:302:ILE:HG22	8:G:303:GLU:H	1.85	0.40
9:S:167:ILE:HG12	9:S:168:GLU:O	2.20	0.40
9:T:64:LEU:HA	9:T:67:ALA:CB	2.51	0.40
9:T:132:LEU:CD2	9:T:148:ASN:OD1	2.69	0.40
9:T:136:LYS:HA	9:T:284:ARG:HH21	1.86	0.40
9:T:166:PRO:CA	9:T:273:THR:HA	2.41	0.40
9:T:210:PHE:HZ	9:T:240:ALA:O	2.04	0.40
9:U:64:LEU:N	9:U:65:PRO:CD	2.84	0.40
9:U:100:LEU:HD13	9:U:144:ILE:CG2	2.51	0.40
9:U:162:LEU:HD12	9:U:162:LEU:C	2.47	0.40
9:U:228:ALA:O	9:U:229:PHE:C	2.64	0.40
9:V:111:LYS:HD2	9:V:300:ASN:HD21	1.87	0.40
9:V:294:TRP:HE3	9:V:295:GLN:N	2.19	0.40
10:X:101:LEU:HD21	10:X:103:ALA:C	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:X:171:ASP:C	10:X:172:LEU:HG	2.45	0.40
10:X:176:HIS:HE1	10:X:205:ILE:HA	1.85	0.40
10:Y:135:MET:O	10:Y:138:GLU:HB3	2.21	0.40
10:Y:170:ILE:HG22	10:Y:172:LEU:H	1.85	0.40
3:A:67:PHE:O	3:A:68:LEU:HB3	2.21	0.40
3:A:158:ARG:NH1	3:A:179:ARG:HB3	2.31	0.40
3:A:182:LEU:C	3:A:183:VAL:HG13	2.47	0.40
3:A:238:LEU:CD2	3:A:257:LEU:HD12	2.38	0.40
3:A:261:PHE:C	3:A:263:ASP:H	2.15	0.40
3:A:303:TYR:O	3:A:306:ASN:HB3	2.22	0.40
3:A:546:GLU:CG	3:A:547:HIS:CD2	3.00	0.40
3:A:560:GLN:HG2	3:A:561:ARG:N	2.35	0.40
3:A:690:TYR:HB3	3:A:886:PRO:CA	2.48	0.40
3:A:727:ARG:C	3:A:728:GLN:OE1	2.65	0.40
3:A:804:LEU:HA	3:A:804:LEU:HD13	1.13	0.40
3:A:959:VAL:CG1	3:A:968:PHE:CD2	3.02	0.40
3:A:1028:PHE:CE1	6:E:438:ARG:HD2	2.50	0.40
3:A:1034:LEU:HA	3:A:1034:LEU:HD13	1.40	0.40
4:B:25:GLY:O	4:B:28:ARG:HB2	2.22	0.40
4:B:107:ASP:HA	4:B:110:VAL:HG23	2.02	0.40
4:B:188:LEU:HD23	4:B:188:LEU:HA	1.75	0.40
4:B:212:ILE:HA	4:B:296:GLN:OE1	2.21	0.40
4:B:295:CYS:CA	4:B:298:CYS:SG	3.09	0.40
4:B:451:GLY:CA	4:B:484:SER:HA	2.31	0.40
4:B:560:ASN:O	4:B:561:ASN:CB	2.69	0.40
4:B:602:GLY:HA3	4:B:782:VAL:CG2	2.50	0.40
4:B:637:HIS:HD2	4:B:684:VAL:CG1	2.33	0.40
4:B:761:GLN:C	4:B:763:GLY:N	2.77	0.40
4:B:845:ALA:O	4:B:846:ALA:C	2.64	0.40
4:B:967:ARG:O	4:B:968:ALA:C	2.64	0.40
4:B:993:ASN:HD21	4:B:996:LEU:HD11	1.87	0.40
4:B:1082:PRO:HB2	4:B:1086:GLY:H	1.85	0.40
4:B:1139:LYS:HA	4:B:1143:VAL:HG23	2.02	0.40
4:B:1245:ILE:CD1	4:B:1247:ALA:HB3	2.52	0.40
5:D:183:VAL:CG1	5:D:184:ARG:N	2.54	0.40
6:E:22:ILE:HA	6:E:25:TRP:CE2	2.57	0.40
6:E:35:VAL:O	6:E:35:VAL:CG1	2.67	0.40
6:E:39:VAL:C	6:E:40:THR:HG23	2.46	0.40
6:E:145:TYR:HE1	6:E:167:TRP:NE1	2.19	0.40
6:E:163:SER:HB2	6:E:165:ASP:OD1	2.21	0.40
6:E:362:ILE:HD12	6:E:454:ILE:HB	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:412:ASP:OD2	6:E:414:SER:CB	2.68	0.40
6:E:478:PRO:HG2	6:E:484:GLN:NE2	2.36	0.40
6:E:564:VAL:HG21	6:E:606:ILE:CG1	2.50	0.40
8:G:151:GLY:O	8:G:154:ALA:HB3	2.20	0.40
8:G:253:MET:HG2	8:G:258:THR:N	2.31	0.40
9:S:7:GLN:HB2	9:S:25:CYS:SG	2.62	0.40
9:T:206:VAL:HA	9:T:209:LYS:CG	2.51	0.40
9:U:32:ILE:C	9:U:34:ARG:N	2.78	0.40
9:U:32:ILE:H	9:U:32:ILE:HG12	1.71	0.40
9:U:111:LYS:CE	9:U:292:HIS:CD2	3.05	0.40
9:U:203:GLN:HG3	9:U:207:GLN:OE1	2.22	0.40
9:V:92:LEU:HD13	9:V:294:TRP:CG	2.55	0.40
9:V:127:GLY:CA	9:V:201:GLY:H	2.35	0.40
9:V:289:PRO:O	9:V:294:TRP:N	2.54	0.40
10:X:108:VAL:O	10:X:111:ALA:CA	2.68	0.40
10:X:131:LEU:HA	10:X:134:GLU:CB	2.51	0.40
10:X:202:MET:HB3	10:X:212:VAL:CA	2.51	0.40
10:Y:27:THR:C	10:Y:28:PHE:CD1	2.99	0.40
10:Y:170:ILE:HD12	10:Y:210:ILE:HB	1.99	0.40
1:1:13:DG:H3'	1:1:14:DC:H5'	2.03	0.40
1:1:21:DC:H4'	2:2:107:DT:H1'	2.03	0.40
2:2:48:DT:C7	8:G:366:ARG:CZ	2.99	0.40
3:A:58:ASP:N	3:A:58:ASP:OD1	2.53	0.40
3:A:67:PHE:C	3:A:69:GLY:H	2.29	0.40
3:A:102:LEU:HD12	3:A:108:ASP:CB	2.38	0.40
3:A:102:LEU:CD1	3:A:110:LYS:HG2	2.51	0.40
3:A:138:VAL:HG13	3:A:401:ARG:HG3	2.03	0.40
3:A:141:ILE:CG2	3:A:142:VAL:N	2.81	0.40
3:A:273:GLY:O	3:A:274:ARG:C	2.63	0.40
3:A:360:THR:CG2	3:A:362:ALA:HB3	2.52	0.40
3:A:486:ASP:OD1	3:A:486:ASP:C	2.64	0.40
3:A:498:ASP:OD1	3:A:499:GLU:O	2.40	0.40
3:A:501:GLY:O	3:A:503:ILE:HG22	2.21	0.40
3:A:573:LEU:HB2	3:A:685:ASN:ND2	2.36	0.40
3:A:574:VAL:CG2	3:A:575:GLY:N	2.83	0.40
3:A:596:GLY:H	3:A:662:ARG:NH2	2.19	0.40
3:A:598:VAL:HG13	3:A:598:VAL:O	2.22	0.40
3:A:598:VAL:HA	3:A:615:PRO:CB	2.49	0.40
3:A:608:VAL:C	3:A:609:ARG:O	2.62	0.40
3:A:747:ALA:C	3:A:749:ARG:H	2.24	0.40
3:A:749:ARG:NH2	3:A:750:GLN:N	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:892:ARG:HB2	3:A:894:ASN:ND2	2.36	0.40
3:A:957:ILE:HD13	3:A:957:ILE:HA	1.40	0.40
3:A:1045:MET:HE1	3:A:1068:GLU:CD	2.46	0.40
3:A:1051:ALA:C	3:A:1053:ASN:N	2.77	0.40
3:A:1086:VAL:O	3:A:1087:HIS:HB3	2.20	0.40
4:B:119:LEU:HD23	4:B:124:MET:SD	2.62	0.40
4:B:180:ARG:O	4:B:180:ARG:HG2	2.19	0.40
4:B:184:VAL:O	4:B:185:ASP:C	2.59	0.40
4:B:250:HIS:CD2	4:B:250:HIS:N	2.85	0.40
4:B:268:LEU:O	4:B:271:GLU:CD	2.64	0.40
4:B:303:LEU:HD11	4:B:1137:ALA:CB	2.52	0.40
4:B:305:HIS:HB3	4:B:307:LYS:O	2.21	0.40
4:B:318:ILE:CG1	6:E:438:ARG:HH11	2.28	0.40
4:B:359:LEU:HD23	4:B:394:SER:HA	2.03	0.40
4:B:427:VAL:O	4:B:1006:ASP:OD2	2.40	0.40
4:B:487:VAL:HB	4:B:987:LEU:HB3	2.04	0.40
4:B:542:ALA:H	4:B:834:ILE:H	1.69	0.40
4:B:572:PHE:CE1	4:B:794:GLN:HA	2.53	0.40
4:B:847:ASP:C	4:B:849:THR:N	2.79	0.40
4:B:916:VAL:HG12	4:B:917:LYS:N	2.35	0.40
4:B:1082:PRO:HB2	4:B:1085:ASP:CA	2.46	0.40
4:B:1149:THR:O	4:B:1149:THR:OG1	2.33	0.40
4:B:1191:THR:O	4:B:1192:PRO:C	2.64	0.40
5:D:18:ASN:HB2	5:D:199:TRP:HB3	2.03	0.40
5:D:57:ARG:NE	5:D:161:LEU:O	2.54	0.40
5:D:102:ASN:O	5:D:103:GLY:O	2.39	0.40
5:D:175:LYS:HB2	5:D:199:TRP:CE3	2.56	0.40
6:E:71:CYS:SG	6:E:89:CYS:CB	3.02	0.40
6:E:94:THR:OG1	6:E:95:GLU:N	2.51	0.40
6:E:197:LEU:HD13	6:E:245:VAL:HG23	1.96	0.40
6:E:534:TYR:C	6:E:535:PHE:CG	3.00	0.40
8:G:116:VAL:HG22	8:G:116:VAL:H	1.66	0.40
8:G:118:GLU:C	8:G:121:SER:HG	2.12	0.40
8:G:351:LEU:O	8:G:352:GLU:C	2.65	0.40
9:S:45:LEU:N	9:S:45:LEU:HD23	2.36	0.40
9:S:132:LEU:CD2	9:S:136:LYS:HD3	2.50	0.40
9:S:168:GLU:HB3	9:S:261:LEU:CD1	2.50	0.40
9:S:244:SER:HA	9:S:247:LEU:HB3	2.04	0.40
9:T:116:TYR:HB2	9:T:117:PRO:CD	2.48	0.40
9:T:135:LEU:HD23	9:T:135:LEU:C	2.46	0.40
9:T:186:SER:OG	9:T:215:ALA:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:202:MET:SD	9:U:276:VAL:HG22	2.62	0.40
9:V:1:MET:SD	9:V:67:ALA:HB2	2.62	0.40
9:V:18:PHE:O	9:V:20:LYS:N	2.47	0.40
10:X:56:ARG:CZ	10:X:62:GLU:O	2.70	0.40
10:X:108:VAL:HA	10:X:111:ALA:HB3	2.04	0.40
10:X:176:HIS:CD2	10:X:208:LYS:CE	3.00	0.40
10:Y:194:LEU:HG	10:Y:198:ARG:CZ	2.52	0.40
1:1:12:DT:H2"	9:V:33:SER:CB	2.51	0.40
3:A:39:ARG:C	3:A:43:GLU:OE1	2.64	0.40
3:A:90:THR:HA	3:A:131:ASN:N	2.36	0.40
3:A:199:LEU:CG	3:A:227:GLY:HA2	2.44	0.40
3:A:255:GLN:HG3	3:A:255:GLN:H	1.58	0.40
3:A:269:LEU:HD22	3:A:274:ARG:CB	2.52	0.40
3:A:314:ILE:HA	3:A:314:ILE:HD12	1.70	0.40
3:A:488:LEU:HG	3:A:523:GLN:O	2.22	0.40
3:A:590:ILE:HB	3:A:670:ALA:HB3	2.03	0.40
3:A:600:TYR:CD2	3:A:602:ASP:OD2	2.73	0.40
3:A:757:ILE:HD12	3:A:768:ILE:O	2.22	0.40
3:A:767:ASP:O	3:A:805:ARG:CA	2.67	0.40
3:A:838:VAL:HG22	3:A:839:TYR:H	1.82	0.40
3:A:896:GLY:C	3:A:898:VAL:HG22	2.47	0.40
3:A:932:VAL:HG23	3:A:933:HIS:CG	2.57	0.40
3:A:967:ALA:O	3:A:968:PHE:C	2.57	0.40
3:A:1071:LYS:HB3	3:A:1071:LYS:HE3	1.71	0.40
4:B:18:SER:C	4:B:20:ALA:N	2.77	0.40
4:B:112:HIS:O	4:B:113:PHE:C	2.63	0.40
4:B:209:ILE:HG22	4:B:210:ARG:N	2.35	0.40
4:B:235:LEU:C	4:B:237:THR:H	2.28	0.40
4:B:242:ARG:HG2	4:B:299:TYR:O	2.22	0.40
4:B:247:ASP:HB3	4:B:248:VAL:H	1.61	0.40
4:B:251:PRO:O	4:B:254:LYS:N	2.44	0.40
4:B:317:ILE:HG13	4:B:318:ILE:N	2.36	0.40
4:B:362:LYS:CG	4:B:363:LEU:N	2.85	0.40
4:B:395:GLU:HA	4:B:403:HIS:HD2	1.83	0.40
4:B:452:GLU:H	4:B:484:SER:C	2.28	0.40
4:B:502:ASP:N	4:B:502:ASP:OD1	2.51	0.40
4:B:539:ILE:O	4:B:835:LEU:CD1	2.67	0.40
4:B:1014:ILE:HA	4:B:1017:LEU:CD2	2.52	0.40
4:B:1037:LYS:CG	4:B:1052:ILE:CB	2.95	0.40
4:B:1052:ILE:HG21	4:B:1052:ILE:HD13	1.81	0.40
4:B:1232:LEU:HG	6:E:9:PHE:HE1	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:36:VAL:O	5:C:39:ALA:N	2.54	0.40
5:C:87:LEU:HD12	5:C:87:LEU:O	2.21	0.40
5:D:141:ARG:O	5:D:142:ILE:HD13	2.22	0.40
5:D:141:ARG:HA	5:D:141:ARG:HD3	1.92	0.40
5:D:156:GLU:HG2	5:D:163:PHE:CE1	2.49	0.40
6:E:117:TYR:CZ	6:E:244:MET:HG2	2.57	0.40
6:E:128:LEU:C	6:E:130:ASP:H	2.30	0.40
6:E:140:VAL:C	6:E:142:PHE:N	2.75	0.40
6:E:153:ALA:HB2	6:E:182:GLN:OE1	2.20	0.40
6:E:211:GLU:CD	6:E:212:GLU:N	2.80	0.40
6:E:257:ARG:O	6:E:270:SER:HB2	2.22	0.40
6:E:372:GLN:C	6:E:444:PHE:HB3	2.46	0.40
6:E:512:ASP:O	6:E:515:LEU:HB3	2.22	0.40
6:E:527:ALA:CB	6:E:551:ASP:HB2	2.39	0.40
6:E:536:ALA:N	6:E:540:ASP:OD2	2.54	0.40
6:E:542:ILE:O	6:E:543:MET:O	2.40	0.40
6:E:608:THR:CG2	6:E:612:ARG:HE	2.30	0.40
7:F:40:LYS:O	7:F:44:TYR:CB	2.69	0.40
8:G:89:ILE:HG23	8:G:92:ILE:CB	2.51	0.40
8:G:103:LEU:HD12	8:G:158:MET:SD	2.59	0.40
8:G:135:GLU:HG3	8:G:139:LEU:CB	2.51	0.40
8:G:149:HIS:O	8:G:153:ARG:HG3	2.21	0.40
8:G:246:THR:HB	8:G:257:PRO:HD2	2.03	0.40
9:S:16:GLY:CA	9:S:20:LYS:HD3	2.52	0.40
9:S:279:VAL:N	9:S:294:TRP:CZ2	2.83	0.40
9:T:27:VAL:CG1	9:T:31:THR:HG21	2.49	0.40
9:T:134:VAL:HG21	9:T:140:VAL:HG21	2.03	0.40
9:T:155:ARG:NH1	9:T:291:LYS:NZ	2.69	0.40
9:T:163:TYR:CE2	9:T:274:ARG:NH1	2.90	0.40
9:T:247:LEU:O	9:T:248:VAL:C	2.64	0.40
9:U:118:GLU:O	9:U:119:VAL:C	2.64	0.40
9:U:121:LEU:HD21	9:U:123:VAL:HB	2.02	0.40
9:U:138:GLY:CA	9:U:141:ASP:CB	2.98	0.40
9:U:141:ASP:CG	9:U:284:ARG:NH2	2.80	0.40
9:U:170:LEU:HD21	9:U:246:ALA:O	2.06	0.40
9:V:126:LEU:HD13	9:V:139:LEU:HD21	2.03	0.40
9:V:147:ASN:ND2	9:V:151:LEU:HA	2.32	0.40
9:V:148:ASN:HD22	9:V:212:ARG:NH1	2.19	0.40
9:V:153:THR:O	9:V:153:THR:CG2	2.68	0.40
9:V:226:LEU:HA	9:V:229:PHE:CE1	2.56	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
3	A	1075/1132 (95%)	613 (57%)	417 (39%)	45 (4%)	2 17
4	B	1209/1350 (90%)	693 (57%)	451 (37%)	65 (5%)	1 15
5	C	224/236 (95%)	131 (58%)	79 (35%)	14 (6%)	1 13
5	D	224/236 (95%)	131 (58%)	79 (35%)	14 (6%)	1 13
6	E	617/625 (99%)	395 (64%)	193 (31%)	29 (5%)	2 17
7	F	56/78 (72%)	38 (68%)	17 (30%)	1 (2%)	6 33
8	G	312/390 (80%)	204 (65%)	94 (30%)	14 (4%)	2 17
9	S	302/312 (97%)	207 (68%)	83 (28%)	12 (4%)	2 18
9	T	290/312 (93%)	196 (68%)	74 (26%)	20 (7%)	1 12
9	U	290/312 (93%)	175 (60%)	87 (30%)	28 (10%)	0 8
9	V	302/312 (97%)	193 (64%)	80 (26%)	29 (10%)	0 8
10	X	194/223 (87%)	121 (62%)	61 (31%)	12 (6%)	1 13
10	Y	194/223 (87%)	113 (58%)	73 (38%)	8 (4%)	2 18
All	All	5289/5741 (92%)	3210 (61%)	1788 (34%)	291 (6%)	2 15

All (291) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	A	48	GLU
3	A	129	ILE
3	A	700	ASP
3	A	889	VAL
3	A	961	ASP
3	A	1031	ALA
3	A	1032	TYR
4	B	81	GLN
4	B	130	ALA
4	B	250	HIS

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Mol	Chain	Res	Type
4	B	286	LEU
4	B	384	ILE
4	B	391	LYS
4	B	408	SER
4	B	484	SER
4	B	654	VAL
4	B	864	THR
4	B	880	GLU
4	B	1014	ILE
4	B	1045	GLU
4	B	1156	ASP
4	B	1247	ALA
5	C	26	GLU
5	C	173	VAL
5	C	184	ARG
5	D	16	SER
5	D	118	VAL
6	E	150	PRO
6	E	466	ALA
6	E	560	PHE
6	E	589	LYS
8	G	295	ASP
8	G	310	GLU
8	G	347	ARG
9	S	18	PHE
9	S	57	THR
9	S	289	PRO
9	T	55	LYS
9	T	116	TYR
9	T	157	MET
9	T	158	VAL
9	T	185	TRP
9	T	189	VAL
9	T	192	PRO
9	T	198	ASP
9	U	155	ARG
9	U	157	MET
9	U	160	GLU
9	U	176	PRO
9	V	4	GLU
9	V	6	LEU
9	V	17	SER

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Mol	Chain	Res	Type
9	V	27	VAL
9	V	67	ALA
9	V	89	GLN
9	V	91	GLU
9	V	141	ASP
9	V	191	TYR
9	V	214	GLU
9	V	257	ALA
9	V	266	LEU
9	V	281	THR
10	X	156	LEU
10	X	168	ILE
10	X	183	ILE
10	X	201	LYS
10	X	210	ILE
10	X	217	THR
10	Y	147	SER
3	A	318	ASP
3	A	329	GLY
3	A	354	SER
3	A	387	MET
3	A	532	VAL
3	A	554	LEU
3	A	697	ASN
3	A	765	ALA
3	A	766	GLY
3	A	853	ALA
3	A	859	LYS
3	A	1070	PHE
4	B	26	THR
4	B	170	THR
4	B	310	ASP
4	B	357	ILE
4	B	385	MET
4	B	448	ASP
4	B	483	LEU
4	B	525	LEU
4	B	754	SER
4	B	849	THR
4	B	1038	VAL
4	B	1134	ILE
4	B	1216	THR

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Mol	Chain	Res	Type
5	C	15	GLU
5	C	29	GLU
5	C	99	LEU
5	D	99	LEU
5	D	159	THR
6	E	59	CYS
6	E	331	LEU
6	E	400	ASN
6	E	405	LYS
6	E	486	GLU
6	E	549	GLN
8	G	174	MET
8	G	259	GLU
8	G	343	LEU
9	S	50	ARG
9	S	152	THR
9	T	149	ARG
9	T	151	LEU
9	U	21	ALA
9	U	42	ASP
9	U	133	LYS
9	U	156	ASP
9	U	159	VAL
9	U	228	ALA
9	U	280	THR
9	U	297	VAL
9	V	184	PRO
10	X	52	VAL
10	X	81	LEU
10	X	101	LEU
10	X	104	PRO
10	Y	52	VAL
10	Y	81	LEU
3	A	62	LYS
3	A	476	PRO
3	A	512	TYR
3	A	694	GLU
3	A	776	LYS
3	A	863	SER
3	A	1062	PRO
4	B	6	ARG
4	B	266	ASP

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Mol	Chain	Res	Type
4	B	419	LYS
4	B	474	ALA
4	B	509	VAL
4	B	528	ALA
4	B	583	GLN
4	B	845	ALA
4	B	877	LEU
4	B	1027	CYS
4	B	1127	MET
5	C	168	SER
5	D	154	GLY
5	D	184	ARG
6	E	147	VAL
6	E	344	ARG
6	E	356	TYR
7	F	16	HIS
8	G	326	LEU
8	G	338	ARG
8	G	375	LYS
9	S	30	SER
9	S	269	ASN
9	T	31	THR
9	T	155	ARG
9	T	182	ARG
9	U	14	GLU
9	U	25	CYS
9	U	100	LEU
9	U	147	ASN
9	U	148	ASN
9	U	248	VAL
9	V	251	ARG
9	V	288	PRO
10	Y	47	LEU
10	Y	128	SER
3	A	382	GLN
3	A	598	VAL
3	A	609	ARG
3	A	995	THR
4	B	460	PRO
4	B	510	LEU
4	B	824	ASP
4	B	1217	THR

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Mol	Chain	Res	Type
6	E	142	PHE
6	E	268	ALA
6	E	357	SER
6	E	467	ASP
6	E	604	GLN
8	G	127	ASP
8	G	337	LEU
9	S	54	SER
9	S	148	ASN
9	S	261	LEU
9	T	107	PRO
9	T	150	PHE
9	T	152	THR
9	T	286	GLN
9	U	117	PRO
9	U	152	THR
9	U	171	THR
9	U	193	GLN
9	V	53	HIS
9	V	139	LEU
9	V	192	PRO
9	V	220	ALA
9	V	267	PRO
10	X	100	LEU
10	X	143	ARG
10	Y	105	ILE
3	A	33	ILE
3	A	78	LYS
3	A	235	LEU
3	A	520	THR
3	A	822	ARG
3	A	886	PRO
3	A	928	SER
4	B	20	ALA
4	B	41	PHE
4	B	1021	ARG
4	B	1047	ILE
4	B	1168	VAL
4	B	1188	ALA
5	C	18	ASN
5	C	19	HIS
5	C	63	HIS

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Mol	Chain	Res	Type
5	C	170	PHE
5	D	18	ASN
5	D	19	HIS
5	D	32	GLN
5	D	63	HIS
5	D	183	VAL
6	E	120	GLY
6	E	152	ASN
6	E	583	SER
6	E	600	ASN
6	E	602	ILE
8	G	258	THR
8	G	340	ARG
9	U	299	GLU
9	V	66	ARG
9	V	88	LYS
9	V	216	THR
9	V	302	PRO
10	Y	42	GLU
3	A	1014	GLY
4	B	214	CYS
4	B	395	GLU
4	B	848	ALA
4	B	924	ALA
5	C	219	ASP
5	D	190	PRO
5	D	219	ASP
6	E	68	ASP
9	S	59	GLY
9	S	184	PRO
9	U	18	PHE
9	U	86	ALA
9	V	30	SER
9	V	209	LYS
9	V	260	PRO
10	Y	44	VAL
3	A	610	VAL
4	B	866	VAL
4	B	1096	VAL
6	E	398	VAL
9	T	195	VAL
9	U	106	PRO

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Mol	Chain	Res	Type
4	B	276	GLY
6	E	187	GLY
3	A	325	VAL
3	A	419	VAL
3	A	577	GLY
4	B	282	VAL
4	B	626	GLY
5	C	205	SER
6	E	251	VAL
6	E	294	ALA
8	G	256	LYS
9	T	243	PRO
9	U	134	VAL
9	V	65	PRO
3	A	286	PRO
3	A	328	VAL
4	B	2	ILE
4	B	633	PRO
4	B	867	PRO
5	C	123	PRO
5	D	123	PRO
9	U	288	PRO
3	A	895	VAL
4	B	480	ILE
4	B	578	PRO
4	B	601	GLY
4	B	1192	PRO
6	E	19	PRO
9	T	301	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
3	A	918/969 (95%)	868 (95%)	50 (5%)	20 42
4	B	1017/1132 (90%)	960 (94%)	57 (6%)	19 41

Continued on next page...

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
5	C	196/205 (96%)	182 (93%)	14 (7%)	13 35
5	D	196/205 (96%)	181 (92%)	15 (8%)	12 32
6	E	534/538 (99%)	491 (92%)	43 (8%)	11 31
7	F	50/69 (72%)	49 (98%)	1 (2%)	48 65
8	G	282/351 (80%)	258 (92%)	24 (8%)	10 30
9	S	261/268 (97%)	239 (92%)	22 (8%)	10 30
9	T	253/268 (94%)	226 (89%)	27 (11%)	6 22
9	U	253/268 (94%)	213 (84%)	40 (16%)	2 13
9	V	261/268 (97%)	237 (91%)	24 (9%)	8 27
10	X	172/194 (89%)	157 (91%)	15 (9%)	9 29
10	Y	172/194 (89%)	167 (97%)	5 (3%)	37 58
All	All	4565/4929 (93%)	4228 (93%)	337 (7%)	15 34

All (337) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	A	73	LYS
3	A	119	LEU
3	A	121	LEU
3	A	123	THR
3	A	189	LYS
3	A	205	SER
3	A	213	LEU
3	A	221	LYS
3	A	235	LEU
3	A	237	GLU
3	A	249	THR
3	A	304	LEU
3	A	305	ILE
3	A	320	LEU
3	A	331	LEU
3	A	389	GLN
3	A	459	LEU
3	A	471	VAL
3	A	472	ARG
3	A	535	VAL
3	A	537	VAL
3	A	540	SER

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Mol	Chain	Res	Type
3	A	558	ASN
3	A	586	SER
3	A	590	ILE
3	A	591	VAL
3	A	599	VAL
3	A	639	VAL
3	A	651	LEU
3	A	668	VAL
3	A	686	ILE
3	A	687	VAL
3	A	780	ASP
3	A	846	ILE
3	A	848	VAL
3	A	851	LYS
3	A	887	LEU
3	A	910	LEU
3	A	916	ILE
3	A	926	GLU
3	A	942	GLU
3	A	943	THR
3	A	972	VAL
3	A	1019	GLU
3	A	1020	MET
3	A	1022	VAL
3	A	1025	LEU
3	A	1071	LYS
3	A	1074	MET
3	A	1098	LEU
4	B	80	TYR
4	B	81	GLN
4	B	116	THR
4	B	122	VAL
4	B	217	THR
4	B	231	THR
4	B	233	ILE
4	B	236	SER
4	B	243	VAL
4	B	254	LYS
4	B	289	GLU
4	B	294	VAL
4	B	309	VAL
4	B	317	ILE

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Mol	Chain	Res	Type
4	B	323	ILE
4	B	377	LEU
4	B	392	GLU
4	B	413	VAL
4	B	452	GLU
4	B	453	VAL
4	B	457	GLU
4	B	458	VAL
4	B	469	ASN
4	B	480	ILE
4	B	482	ILE
4	B	497	VAL
4	B	525	LEU
4	B	628	THR
4	B	639	VAL
4	B	643	ILE
4	B	647	LEU
4	B	648	VAL
4	B	649	GLU
4	B	654	VAL
4	B	671	VAL
4	B	718	VAL
4	B	723	ARG
4	B	743	GLU
4	B	746	VAL
4	B	756	THR
4	B	790	LEU
4	B	793	THR
4	B	815	ASP
4	B	816	ILE
4	B	830	LEU
4	B	832	LEU
4	B	838	LEU
4	B	923	VAL
4	B	982	ILE
4	B	995	VAL
4	B	1117	VAL
4	B	1141	ILE
4	B	1160	THR
4	B	1168	VAL
4	B	1194	LEU
4	B	1220	LEU

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Mol	Chain	Res	Type
4	B	1239	VAL
5	C	6	ILE
5	C	12	ASN
5	C	35	THR
5	C	36	VAL
5	C	42	ARG
5	C	77	GLU
5	C	117	GLU
5	C	157	GLU
5	C	161	LEU
5	C	169	ILE
5	C	186	ASP
5	C	208	GLU
5	C	210	LEU
5	C	216	ILE
5	D	6	ILE
5	D	13	THR
5	D	36	VAL
5	D	40	LEU
5	D	48	LEU
5	D	51	THR
5	D	75	VAL
5	D	78	ILE
5	D	79	ILE
5	D	161	LEU
5	D	169	ILE
5	D	176	VAL
5	D	194	LEU
5	D	205	SER
5	D	208	GLU
6	E	12	VAL
6	E	14	ILE
6	E	108	LEU
6	E	112	VAL
6	E	121	ILE
6	E	125	ILE
6	E	128	LEU
6	E	163	SER
6	E	164	GLU
6	E	208	SER
6	E	230	VAL
6	E	235	ILE

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Mol	Chain	Res	Type
6	E	256	LEU
6	E	267	PHE
6	E	306	LEU
6	E	308	GLU
6	E	324	VAL
6	E	333	SER
6	E	348	ASN
6	E	370	ILE
6	E	378	GLU
6	E	385	GLN
6	E	389	ILE
6	E	418	VAL
6	E	435	THR
6	E	442	GLN
6	E	447	ILE
6	E	475	VAL
6	E	489	LEU
6	E	494	SER
6	E	496	ASN
6	E	514	VAL
6	E	528	THR
6	E	538	LEU
6	E	547	GLN
6	E	564	VAL
6	E	576	VAL
6	E	577	THR
6	E	586	VAL
6	E	587	LEU
6	E	602	ILE
6	E	603	SER
6	E	613	VAL
7	F	22	ILE
8	G	95	LEU
8	G	105	ARG
8	G	150	ILE
8	G	165	LEU
8	G	169	ILE
8	G	176	ARG
8	G	179	SER
8	G	184	ILE
8	G	201	GLU
8	G	233	VAL

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Mol	Chain	Res	Type
8	G	238	THR
8	G	242	ILE
8	G	264	THR
8	G	269	THR
8	G	276	ILE
8	G	310	GLU
8	G	312	GLN
8	G	323	GLU
8	G	333	GLU
8	G	373	LEU
8	G	384	VAL
8	G	385	LEU
8	G	389	ILE
8	G	390	ARG
9	S	32	ILE
9	S	39	LEU
9	S	81	LEU
9	S	88	LYS
9	S	108	VAL
9	S	123	VAL
9	S	124	THR
9	S	132	LEU
9	S	151	LEU
9	S	158	VAL
9	S	165	GLU
9	S	171	THR
9	S	175	HIS
9	S	195	VAL
9	S	241	LEU
9	S	261	LEU
9	S	264	SER
9	S	285	LEU
9	S	287	ILE
9	S	292	HIS
9	S	296	LEU
9	S	304	ILE
9	T	14	GLU
9	T	32	ILE
9	T	47	LEU
9	T	99	SER
9	T	100	LEU
9	T	119	VAL

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Mol	Chain	Res	Type
9	T	128	SER
9	T	145	VAL
9	T	151	LEU
9	T	159	VAL
9	T	161	VAL
9	T	167	ILE
9	T	192	PRO
9	T	203	GLN
9	T	208	GLU
9	T	221	LEU
9	T	227	ASP
9	T	247	LEU
9	T	256	LEU
9	T	273	THR
9	T	275	ARG
9	T	280	THR
9	T	281	THR
9	T	284	ARG
9	T	285	LEU
9	T	287	ILE
9	T	290	ILE
9	U	6	LEU
9	U	10	LEU
9	U	24	LYS
9	U	29	GLN
9	U	31	THR
9	U	32	ILE
9	U	33	SER
9	U	40	GLU
9	U	43	LEU
9	U	78	THR
9	U	79	GLN
9	U	91	GLU
9	U	94	ILE
9	U	97	ILE
9	U	105	LEU
9	U	111	LYS
9	U	119	VAL
9	U	146	MET
9	U	158	VAL
9	U	164	ASP
9	U	165	GLU

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Mol	Chain	Res	Type
9	U	183	VAL
9	U	188	LEU
9	U	194	VAL
9	U	198	ASP
9	U	209	LYS
9	U	223	VAL
9	U	226	LEU
9	U	229	PHE
9	U	233	VAL
9	U	237	GLU
9	U	239	ILE
9	U	241	LEU
9	U	248	VAL
9	U	277	VAL
9	U	281	THR
9	U	284	ARG
9	U	287	ILE
9	U	297	VAL
9	U	301	ILE
9	V	10	LEU
9	V	18	PHE
9	V	23	SER
9	V	25	CYS
9	V	27	VAL
9	V	32	ILE
9	V	47	LEU
9	V	81	LEU
9	V	84	LEU
9	V	93	CYS
9	V	104	TYR
9	V	109	LEU
9	V	140	VAL
9	V	167	ILE
9	V	208	GLU
9	V	214	GLU
9	V	229	PHE
9	V	233	VAL
9	V	247	LEU
9	V	268	GLU
9	V	276	VAL
9	V	284	ARG
9	V	285	LEU

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Mol	Chain	Res	Type
9	V	286	GLN
10	X	30	ARG
10	X	45	TYR
10	X	79	SER
10	X	123	LEU
10	X	130	ILE
10	X	148	ARG
10	X	149	LEU
10	X	155	ILE
10	X	166	ASP
10	X	168	ILE
10	X	188	VAL
10	X	193	LEU
10	X	198	ARG
10	X	210	ILE
10	X	219	SER
10	Y	96	THR
10	Y	155	ILE
10	Y	188	VAL
10	Y	196	ASP
10	Y	201	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (115) such sidechains are listed below:

Mol	Chain	Res	Type
3	A	71	ASN
3	A	94	GLN
3	A	168	ASN
3	A	228	GLN
3	A	389	GLN
3	A	423	HIS
3	A	426	HIS
3	A	500	ASN
3	A	558	ASN
3	A	562	GLN
3	A	684	GLN
3	A	858	ASN
3	A	984	HIS
3	A	1003	GLN
3	A	1004	GLN
3	A	1015	GLN
4	B	112	HIS

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Mol	Chain	Res	Type
4	B	305	HIS
4	B	403	HIS
4	B	416	GLN
4	B	462	GLN
4	B	637	HIS
4	B	668	ASN
4	B	760	GLN
4	B	794	GLN
4	B	828	GLN
4	B	854	GLN
4	B	1089	ASN
4	B	1091	HIS
4	B	1112	HIS
4	B	1115	GLN
4	B	1126	GLN
4	B	1130	GLN
4	B	1175	GLN
4	B	1189	GLN
5	C	19	HIS
5	C	32	GLN
5	C	63	HIS
5	C	93	GLN
5	C	102	ASN
5	D	19	HIS
5	D	93	GLN
5	D	102	ASN
5	D	165	GLN
5	D	207	GLN
6	E	34	GLN
6	E	46	ASN
6	E	114	HIS
6	E	143	ASN
6	E	152	ASN
6	E	233	ASN
6	E	261	GLN
6	E	290	GLN
6	E	348	ASN
6	E	371	HIS
6	E	385	GLN
6	E	411	ASN
6	E	431	ASN
6	E	437	HIS

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Mol	Chain	Res	Type
6	E	465	ASN
6	E	547	GLN
6	E	549	GLN
6	E	553	HIS
6	E	568	GLN
7	F	13	GLN
7	F	37	ASN
8	G	87	GLN
8	G	138	GLN
8	G	185	GLN
8	G	200	HIS
8	G	251	GLN
9	S	53	HIS
9	S	89	GLN
9	S	147	ASN
9	S	193	GLN
9	S	207	GLN
9	S	218	GLN
9	S	235	GLN
9	S	263	ASN
9	S	282	GLN
9	S	295	GLN
9	T	52	ASN
9	T	89	GLN
9	T	110	GLN
9	T	193	GLN
9	T	235	GLN
9	T	292	HIS
9	T	295	GLN
9	U	29	GLN
9	U	52	ASN
9	U	98	HIS
9	U	120	GLN
9	U	207	GLN
9	U	224	ASN
9	U	292	HIS
9	U	300	ASN
9	V	5	GLN
9	V	35	GLN
9	V	49	HIS
9	V	89	GLN
9	V	147	ASN

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Mol	Chain	Res	Type
9	V	148	ASN
9	V	174	ASN
9	V	193	GLN
9	V	207	GLN
9	V	235	GLN
9	V	282	GLN
9	V	286	GLN
9	V	292	HIS
9	V	295	GLN
10	X	91	HIS
10	X	176	HIS
10	X	177	GLN
10	Y	91	HIS
10	Y	206	HIS

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

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
3	A	13
6	E	8
4	B	3
1	1	1
9	U	1
8	G	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	1	45:DC	O3'	46:DA	P	2.95
1	U	154:GLY	C	155:ARG	N	1.73
1	G	231:LEU	C	232:PRO	N	1.20
1	A	263:ASP	C	264:PRO	N	1.19
1	A	829:PRO	C	830:PRO	N	1.19
1	A	1061:ILE	C	1062:PRO	N	1.19
1	B	591:LEU	C	592:ILE	N	1.19
1	A	701:ALA	C	702:ILE	N	1.18
1	A	880:VAL	C	881:ASP	N	1.18
1	E	41:LYS	C	42:PRO	N	1.18
1	E	461:CYS	C	462:PRO	N	1.18
1	A	1063:ARG	C	1064:PRO	N	1.17
1	A	1066:THR	C	1067:PRO	N	1.17
1	E	460:VAL	C	461:CYS	N	1.17
1	E	51:LYS	C	52:PRO	N	1.16
1	A	530:SER	C	531:PRO	N	1.15
1	E	64:GLY	C	65:PRO	N	1.15
1	A	423:HIS	C	424:PRO	N	1.14
1	A	564:VAL	C	565:PRO	N	1.14
1	A	878:SER	C	879:PRO	N	1.12
1	A	27:LEU	C	28:PRO	N	1.11
1	B	1245:ILE	C	1246:PRO	N	1.11
1	E	257:ARG	C	258:PRO	N	1.11
1	A	568:LYS	C	569:PRO	N	1.08
1	E	249:ILE	C	250:PRO	N	1.07
1	E	457:HIS	C	458:PRO	N	1.07
1	B	974:VAL	C	975:SER	N	1.04

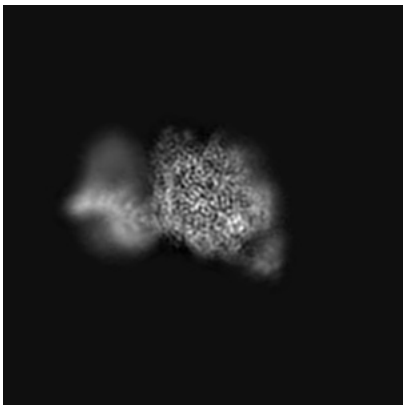
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-34475. These allow visual inspection of the internal detail of the map and identification of artifacts.

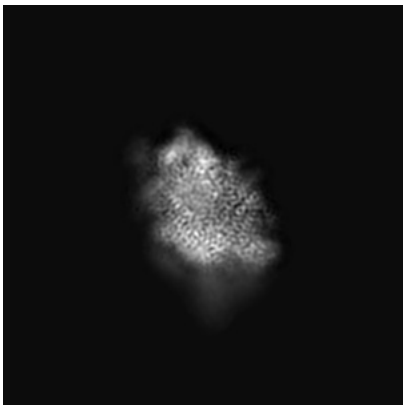
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

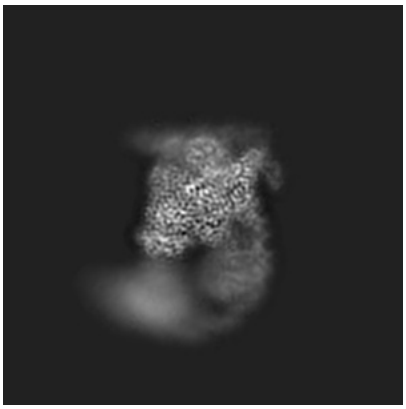
6.1.1 Primary map



X

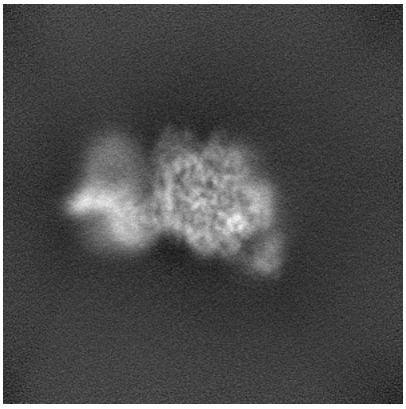


Y

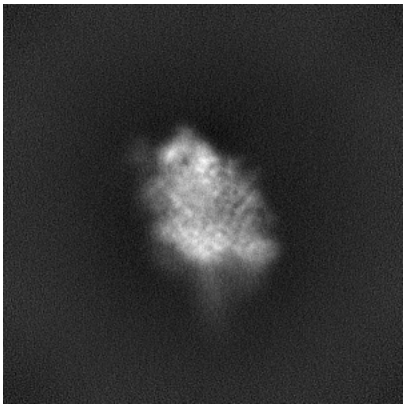


Z

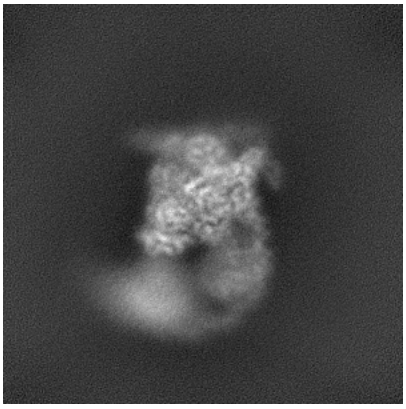
6.1.2 Raw map



X



Y

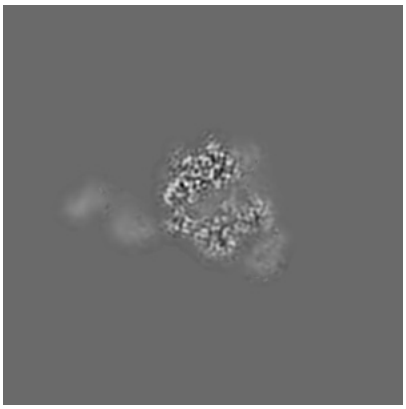


Z

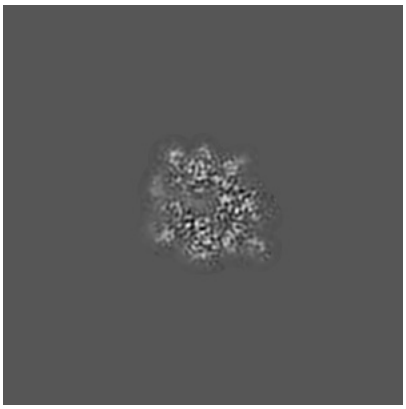
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

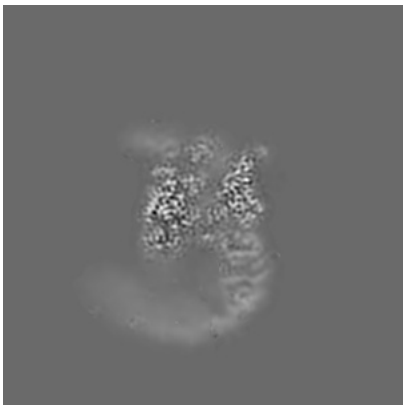
6.2.1 Primary map



X Index: 175

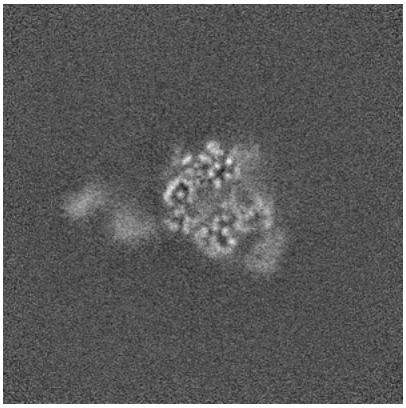


Y Index: 175

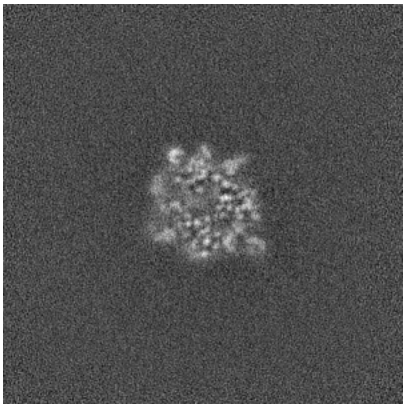


Z Index: 175

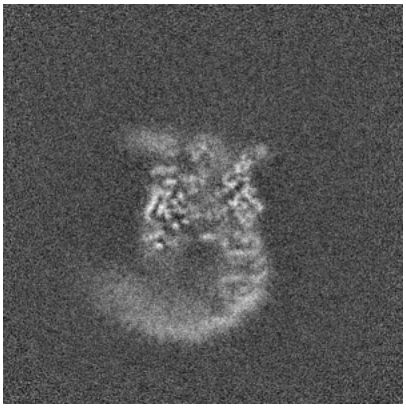
6.2.2 Raw map



X Index: 175



Y Index: 175

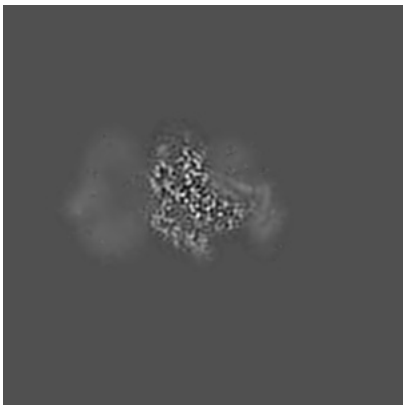


Z Index: 175

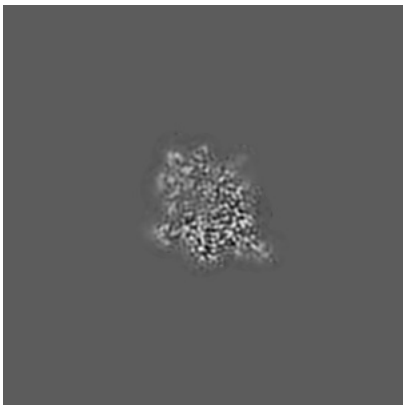
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

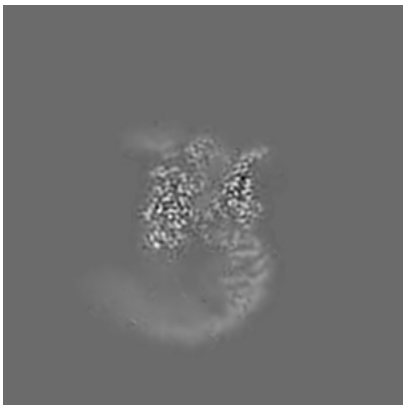
6.3.1 Primary map



X Index: 145

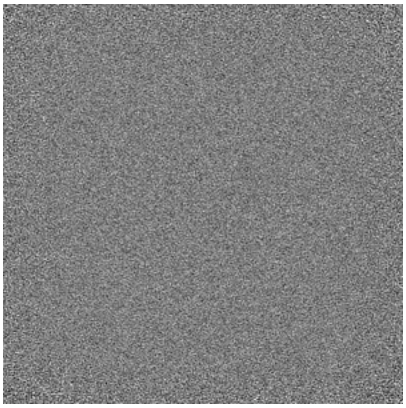


Y Index: 169

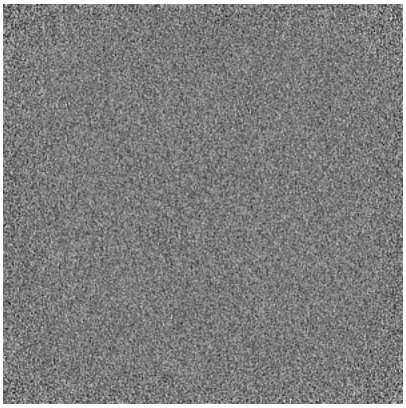


Z Index: 173

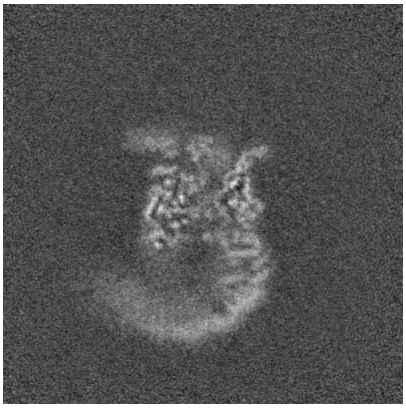
6.3.2 Raw map



X Index: 0



Y Index: 0

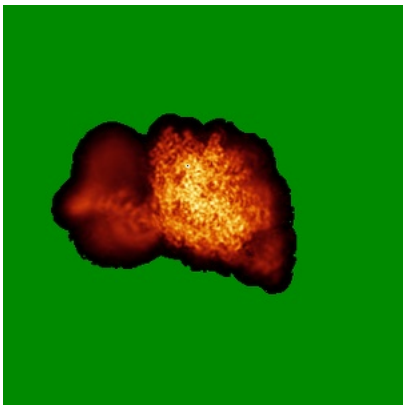


Z Index: 174

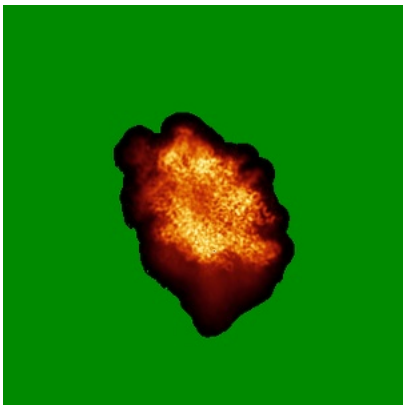
The images above show the largest variance slices of the map in three orthogonal directions.

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

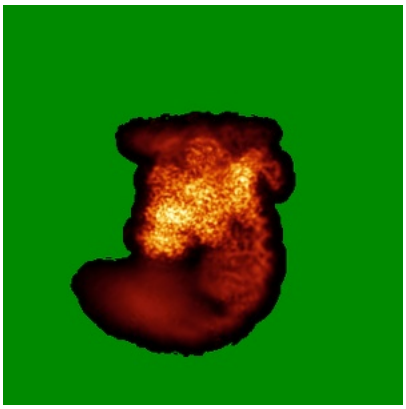
6.4.1 Primary map



X

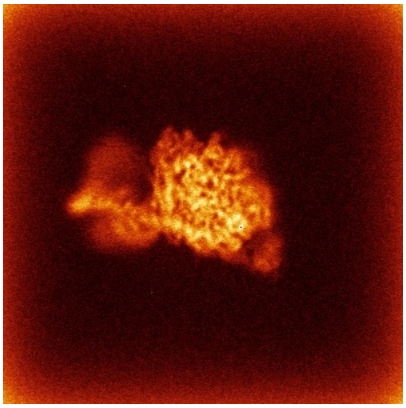


Y

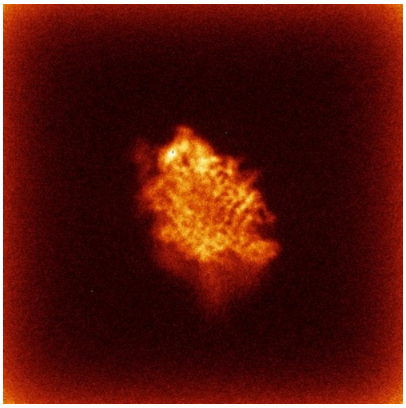


Z

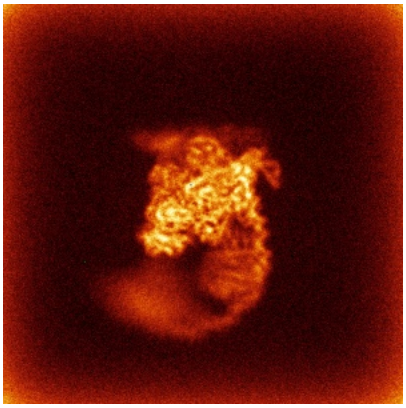
6.4.2 Raw map



X



Y

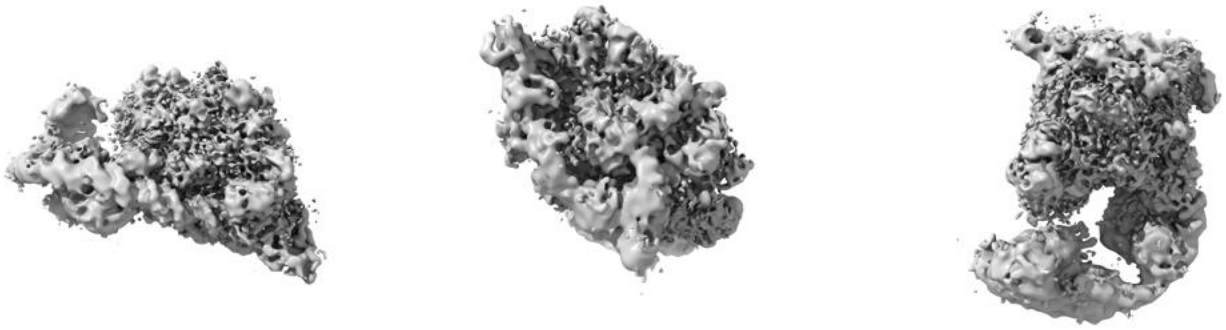


Z

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

6.5 Orthogonal surface views (i)

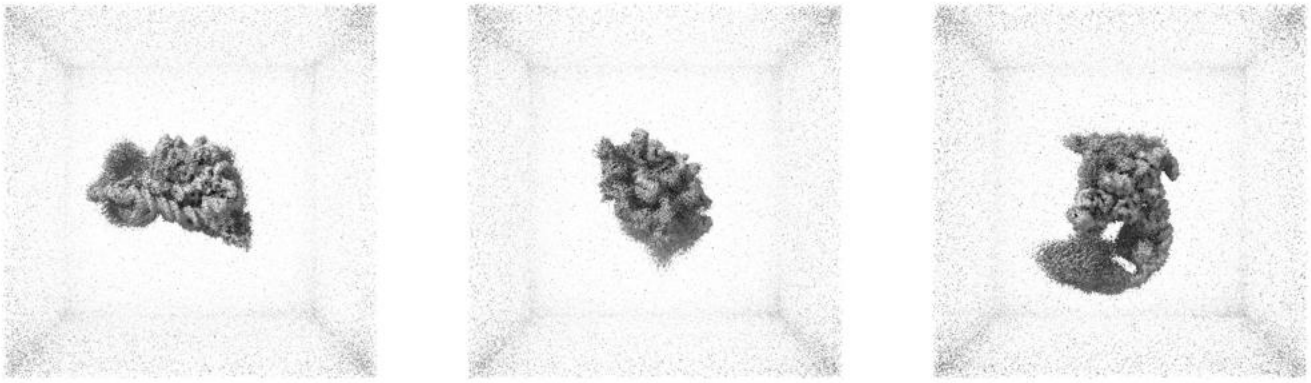
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.2. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

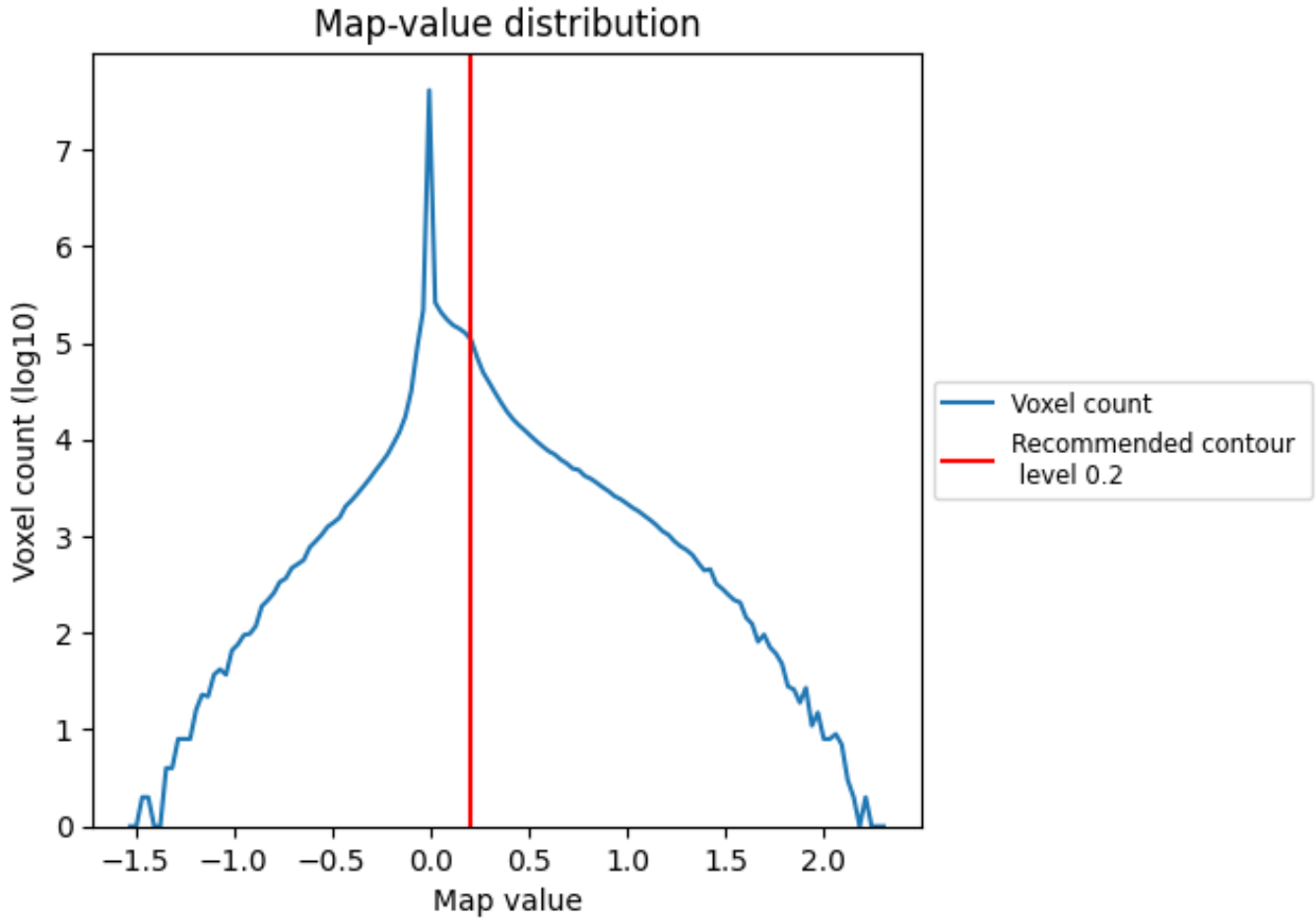
6.6 Mask visualisation (i)

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

7 Map analysis

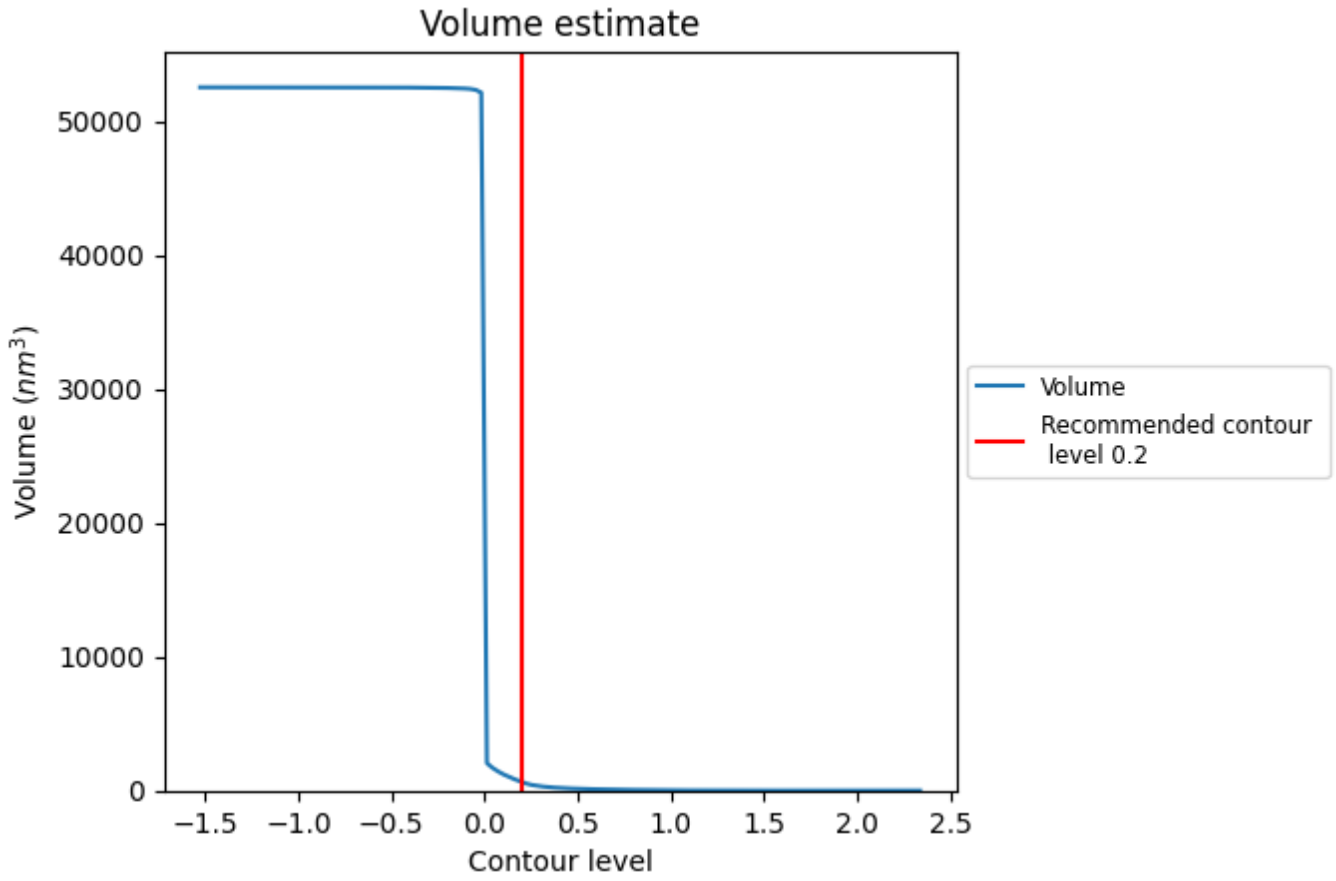
This section contains the results of statistical analysis of the map.

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.

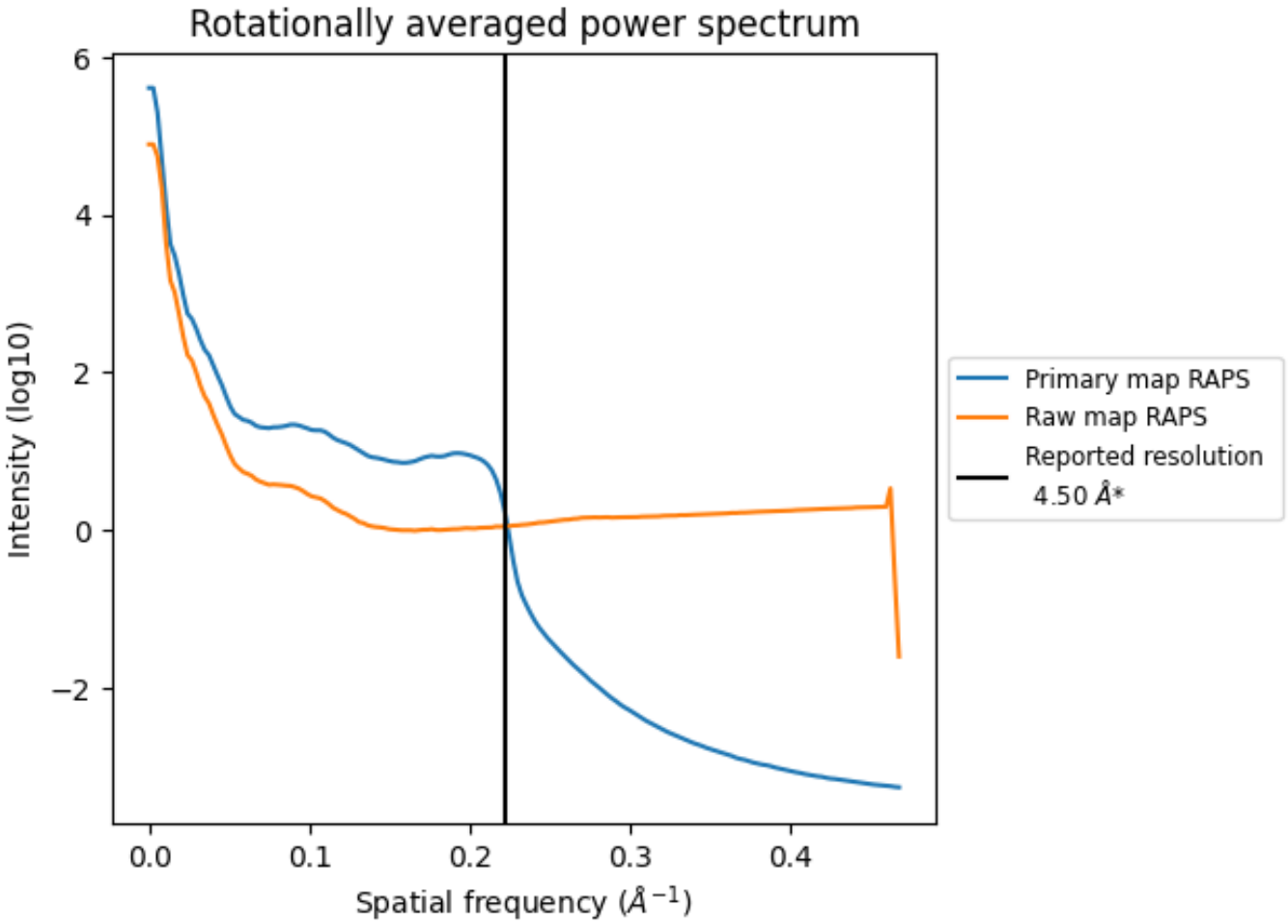
7.2 Volume estimate



The volume at the recommended contour level is 641 nm^3; this corresponds to an approximate mass of 579 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)

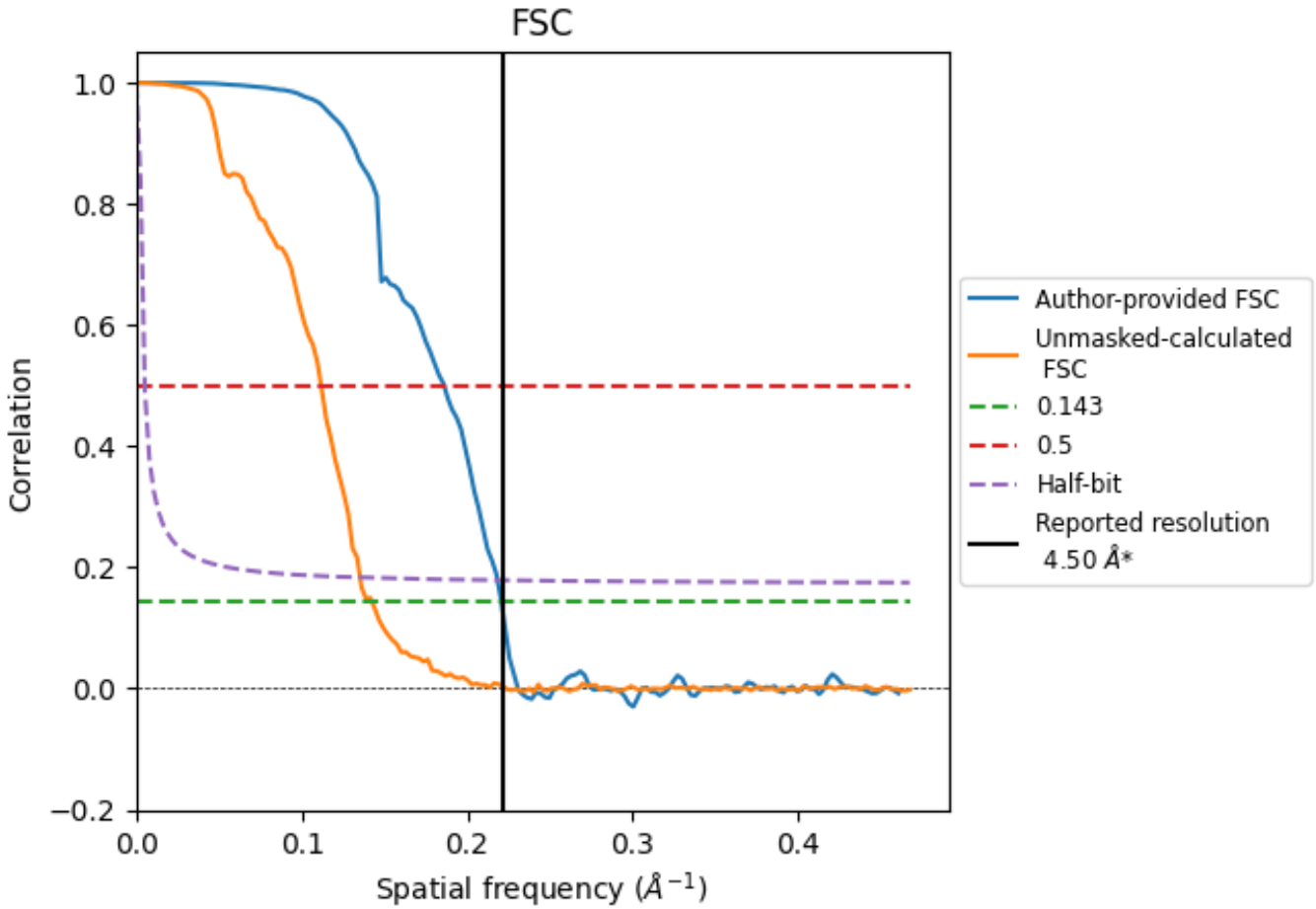


*Reported resolution corresponds to spatial frequency of 0.222 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.222 $Å^{-1}$

8.2 Resolution estimates (i)

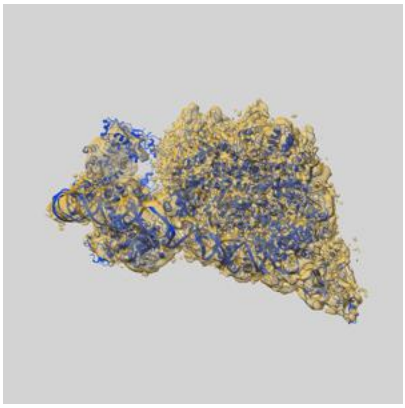
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.50	-	-
Author-provided FSC curve	4.53	5.38	4.58
Unmasked-calculated*	7.02	8.94	7.39

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 7.02 differs from the reported value 4.5 by more than 10 %

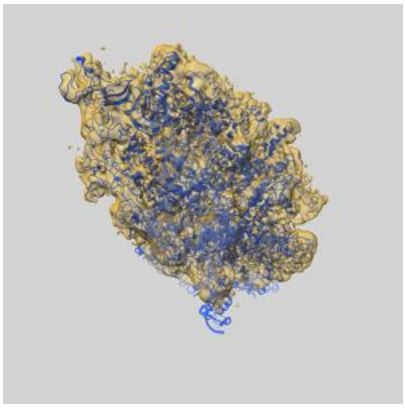
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-34475 and PDB model 8H3V. Per-residue inclusion information can be found in section 3 on page 7.

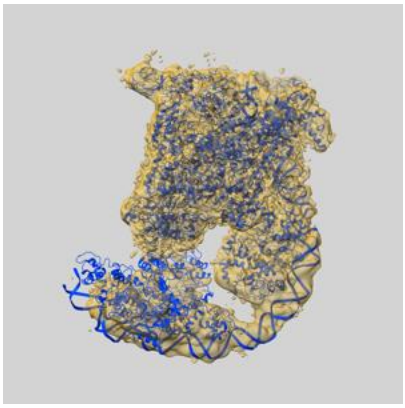
9.1 Map-model overlay



X



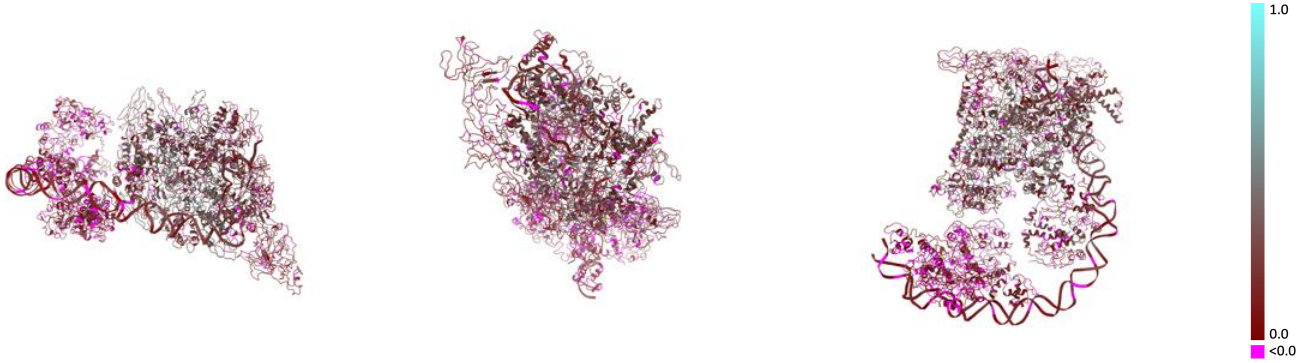
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.2 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

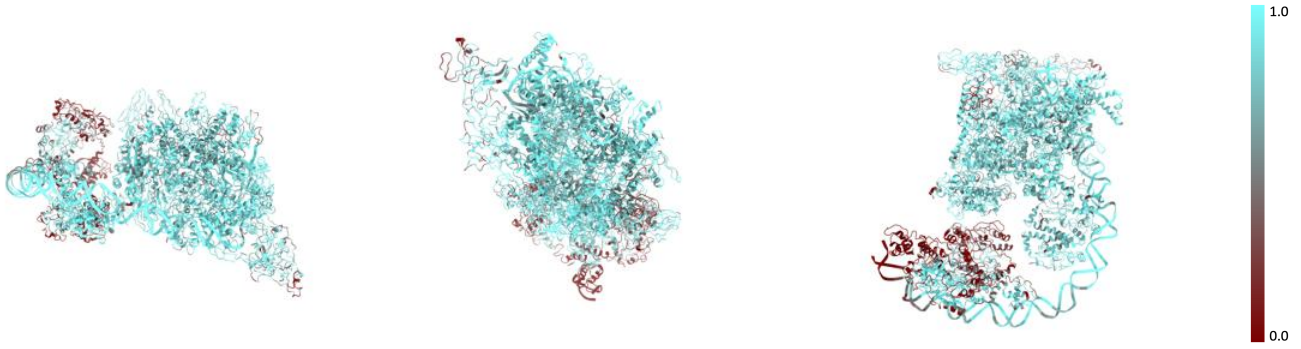
9.2 Q-score mapped to coordinate model (i)



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.

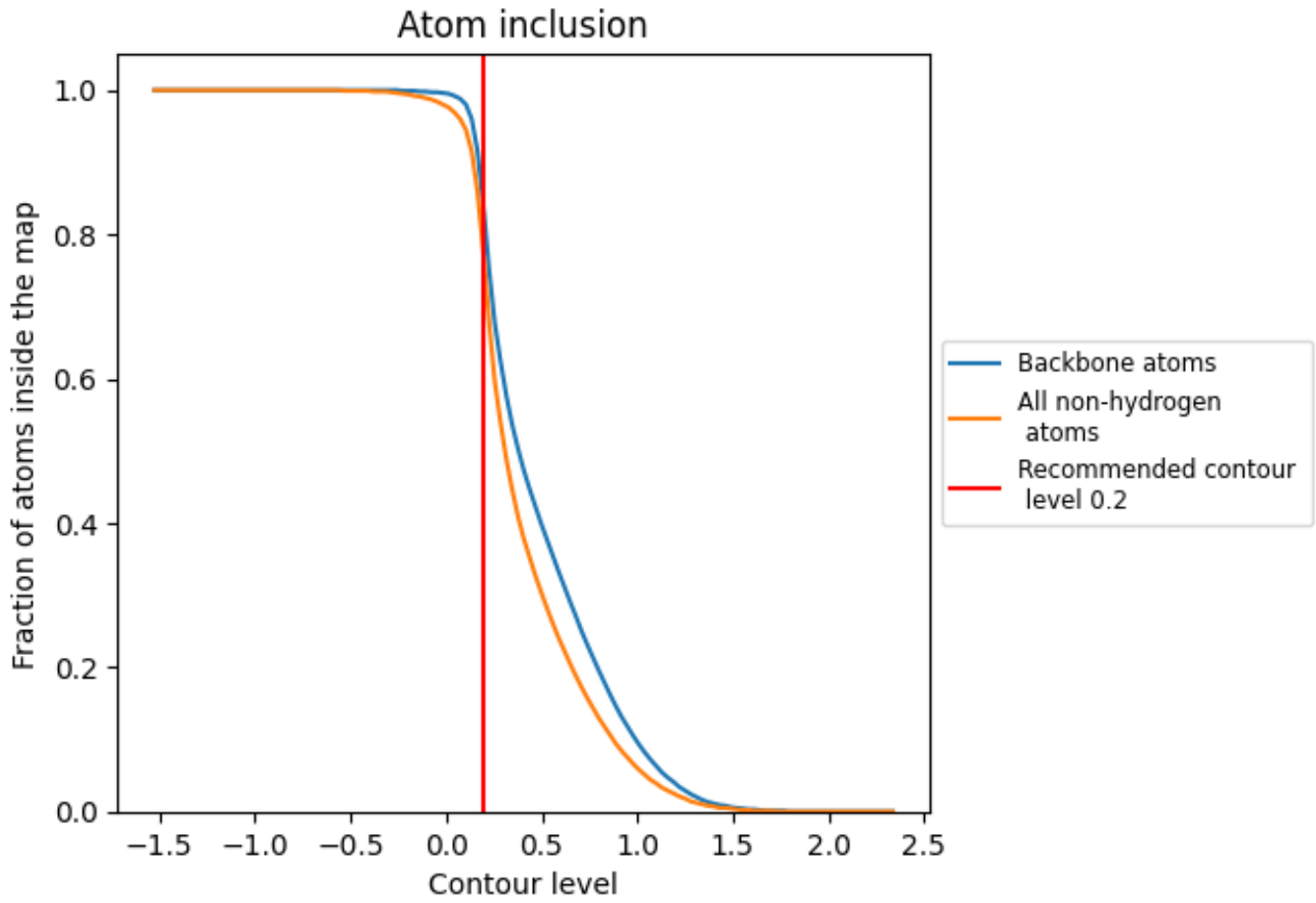
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.2).

9.4 Atom inclusion (i)



At the recommended contour level, 83% of all backbone atoms, 76% 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 (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7590	0.1910
1	0.8030	0.1340
2	0.8250	0.1340
A	0.8860	0.2980
B	0.7750	0.2000
C	0.8500	0.2680
D	0.8140	0.2280
E	0.8430	0.2770
F	0.8900	0.2890
G	0.8680	0.2280
S	0.6310	0.0590
T	0.3480	0.0470
U	0.3660	0.0520
V	0.4850	0.0670
X	0.8740	0.1290
Y	0.8860	0.1110