Full wwPDB EM Validation Report

Feb 19, 2024 – 10:31 AM EST

PDB ID	:	8H40
EMDB ID	:	EMD-34476
Title	:	Cryo-EM structure of the transcription activation complex NtcA-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	:	3.60 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:

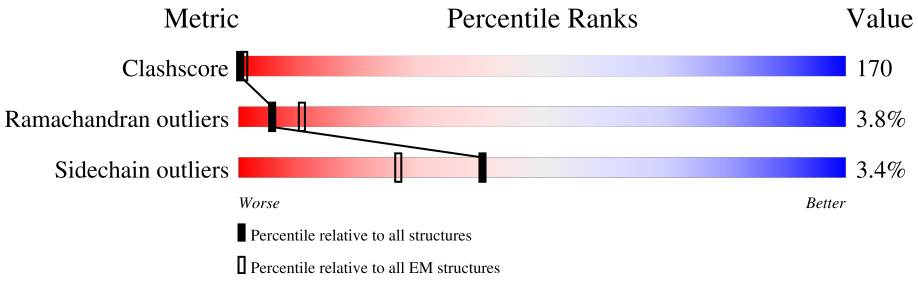
EMDB validation analysis	:	0.0.1.dev70
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 3.60 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	48% 47%
2	2	125	7% 35% 57%
3	A	1132	10% 41% 42% 5%
4	B	1350	24% 8% 54% 26% 10%
5	C	236	5% 7% 49% 37%
5	D	236	9% 5% 49% 39%
6	E	625	11% 46% 40%
7	F	78	6% 21% 36% 17% 26%

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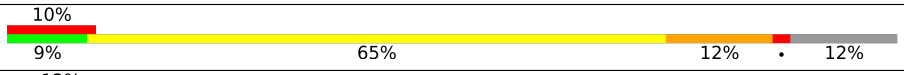
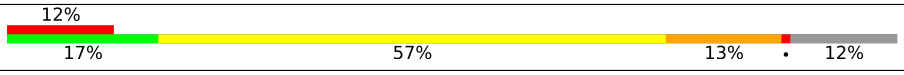
Mol	Chain	Length	Quality of chain
8	G	390	
9	X	223	
9	Y	223	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 34833 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	66	1358	651	243	398	66	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	54	1109	532	203	320	54	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	620	Total	C	N	O	S	0	0
			4923	3107	885	910	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 NtcA.

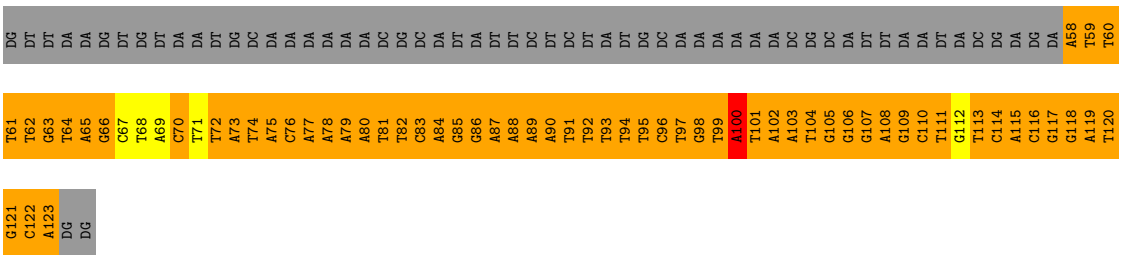
Mol	Chain	Residues	Atoms					AltConf	Trace
9	X	196	Total	C	N	O	S	0	0
			1540	984	268	280	8		
9	Y	196	Total	C	N	O	S	0	0
			1540	984	268	280	8		

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.

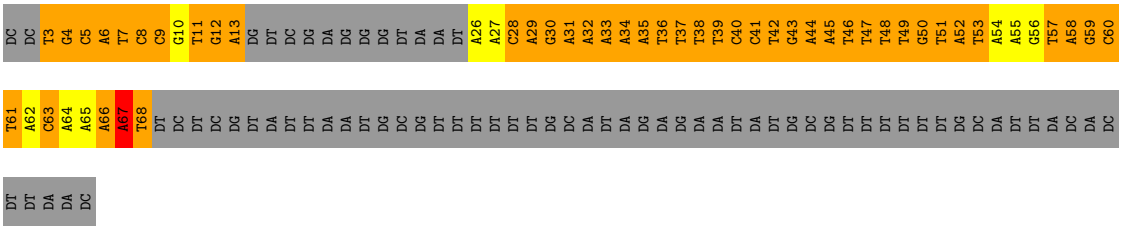
• Molecule 1: DNA (125-MER)

Chain 1:



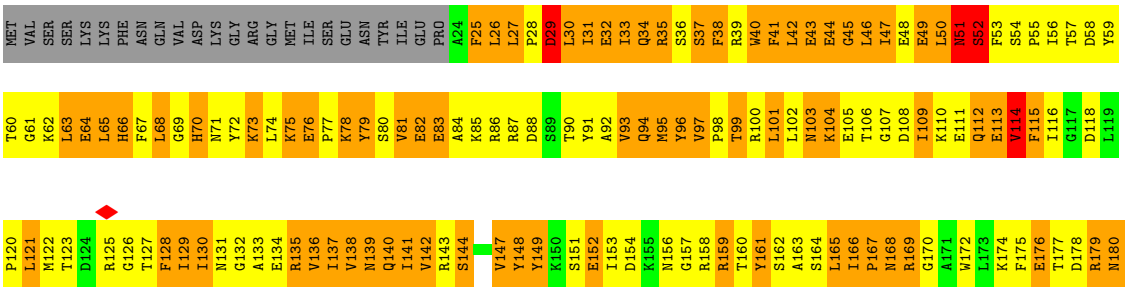
• Molecule 2: DNA (125-MER)

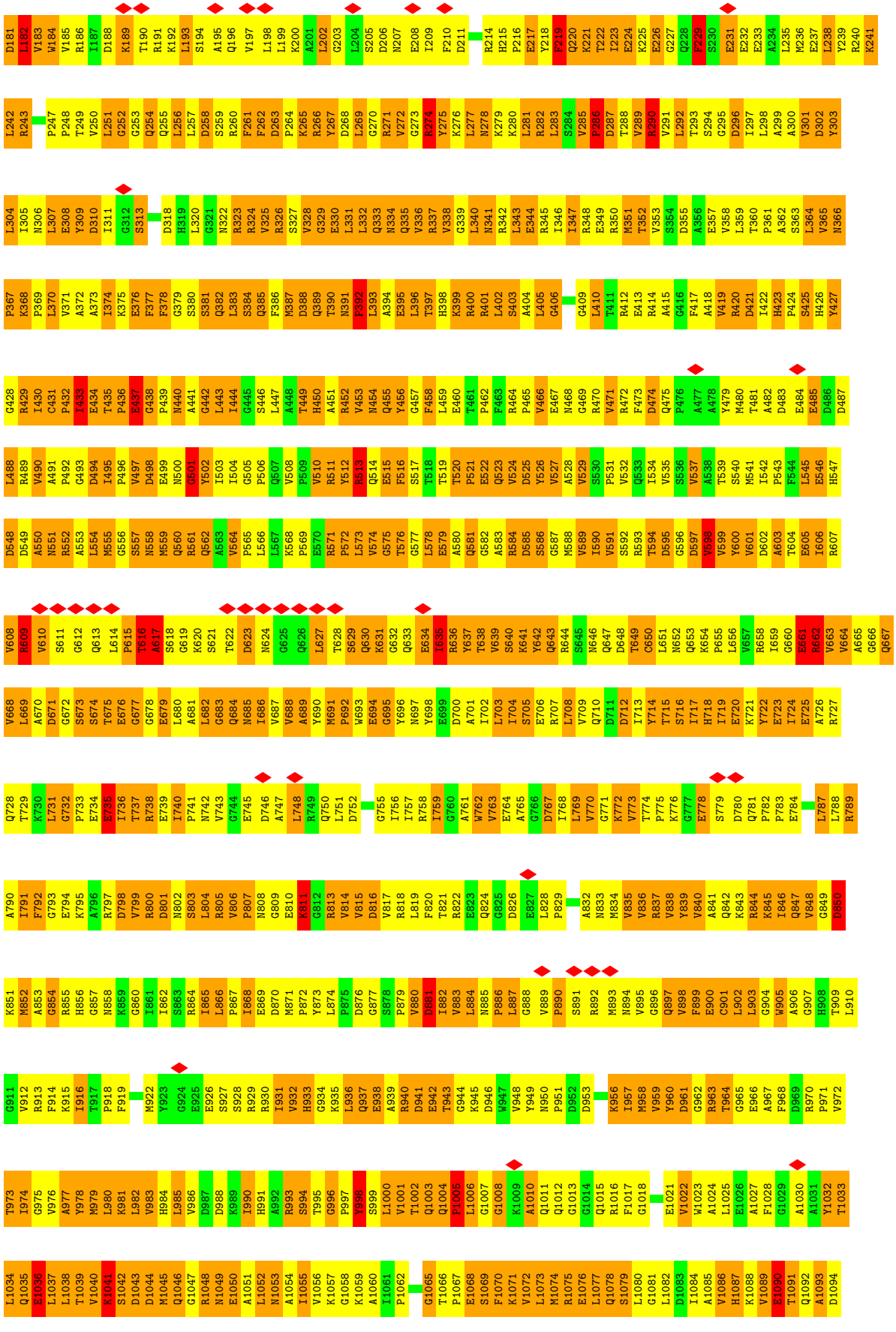
Chain 2:



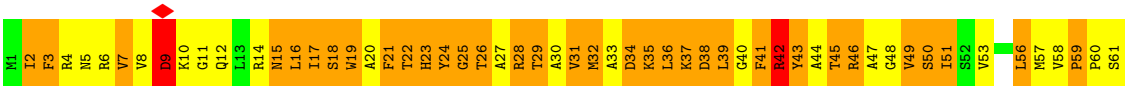
• Molecule 3: DNA-directed RNA polymerase subunit beta

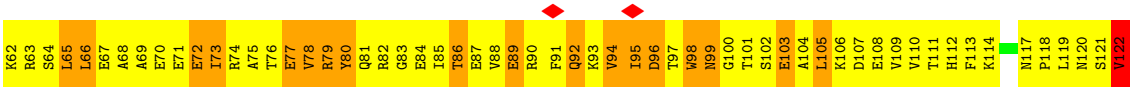
Chain A:

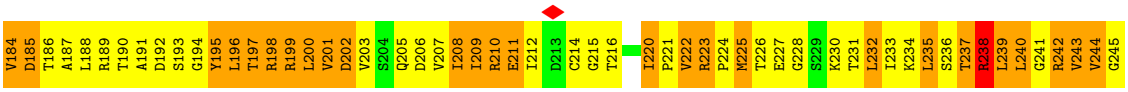


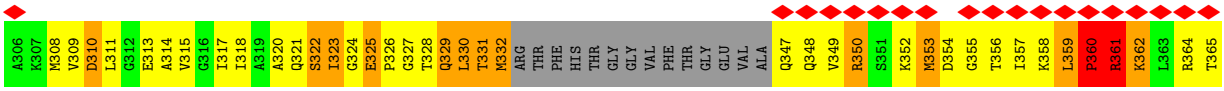


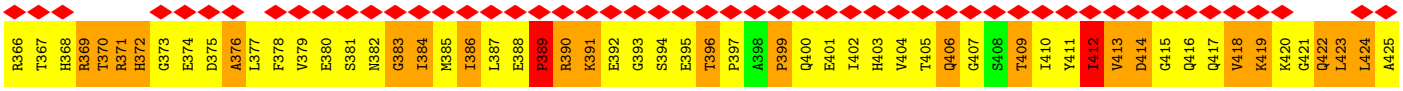
• Molecule 4: DNA-directed RNA polymerase subunit beta'

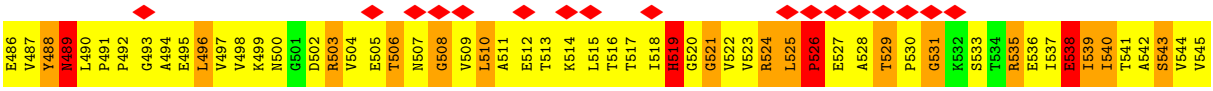


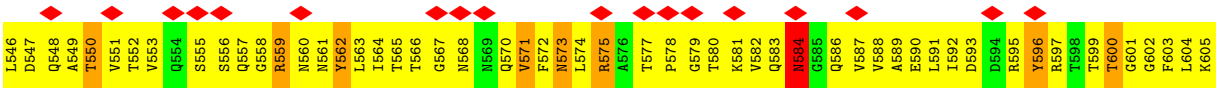


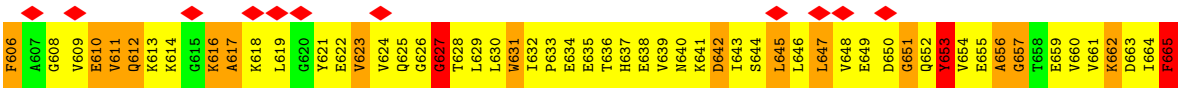


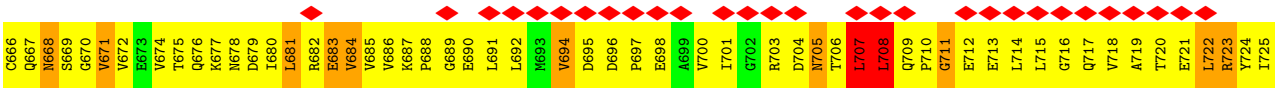


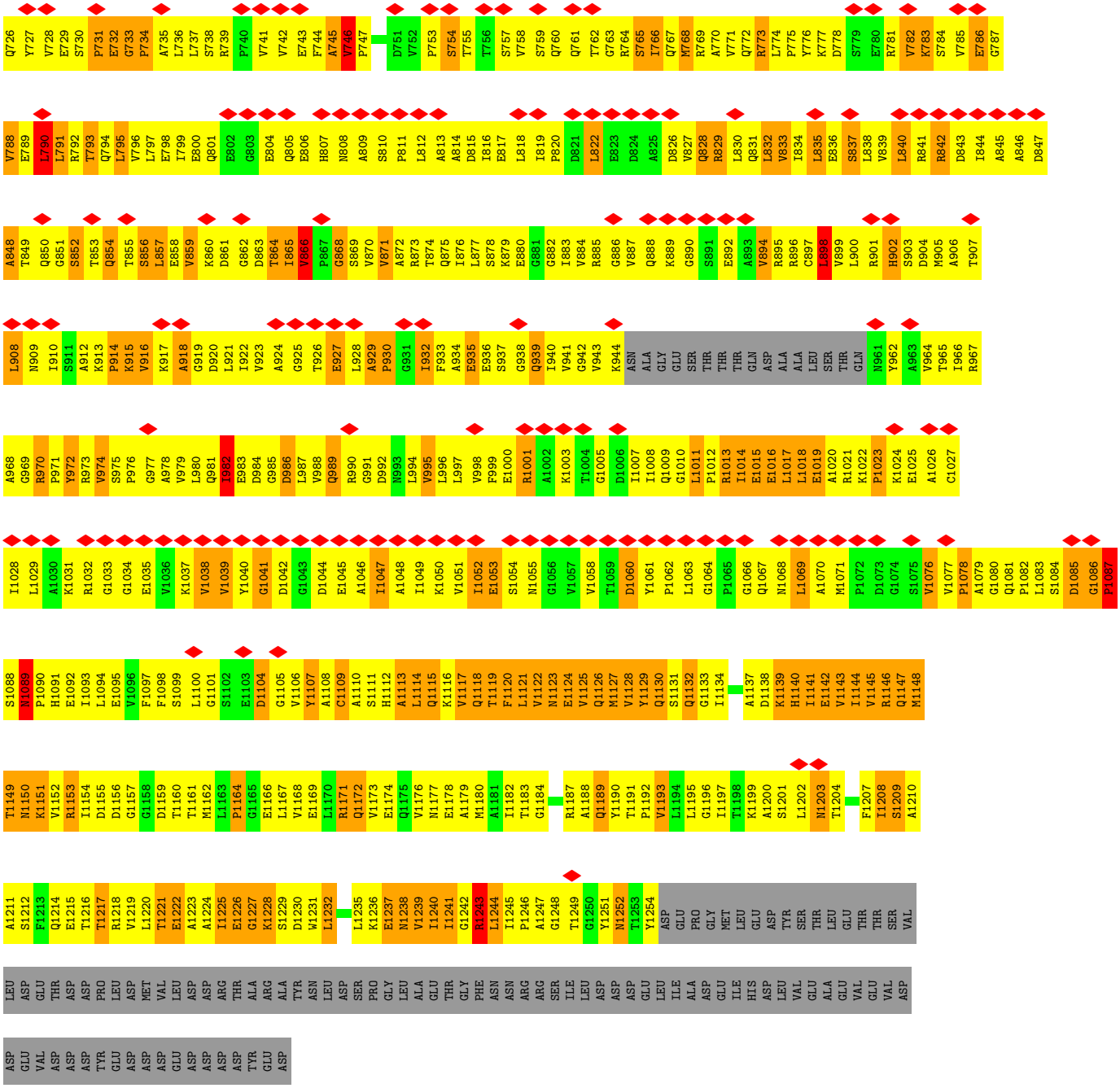




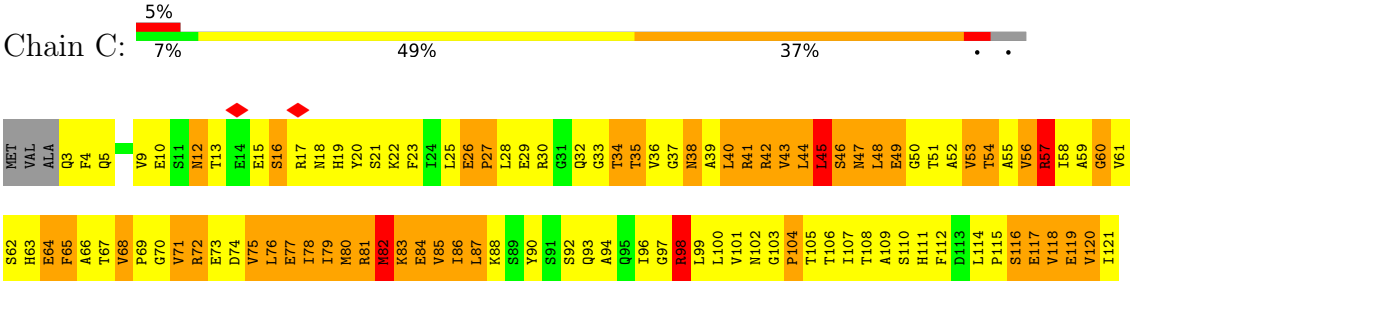


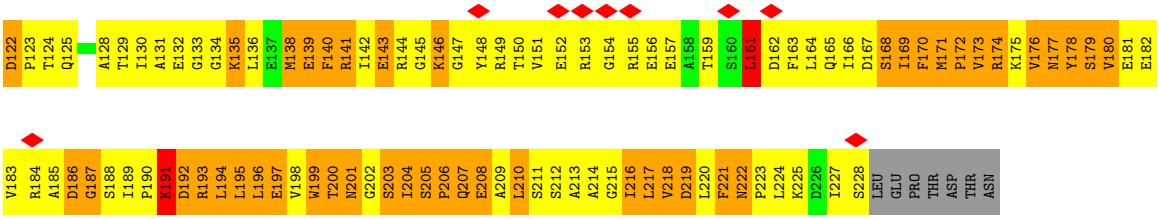






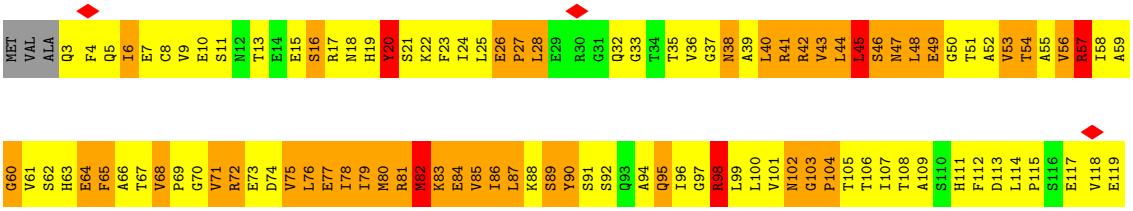
• Molecule 5: DNA-directed RNA polymerase subunit alpha

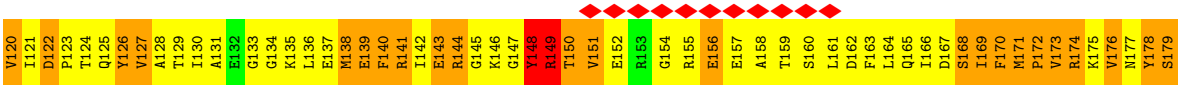


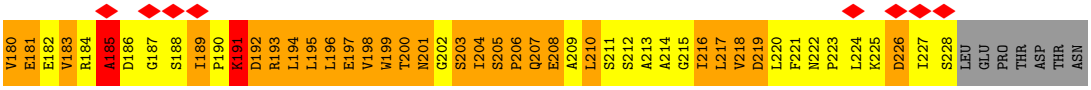


• Molecule 5: DNA-directed RNA polymerase subunit alpha

Chain D:

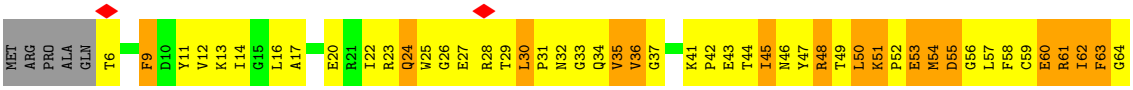


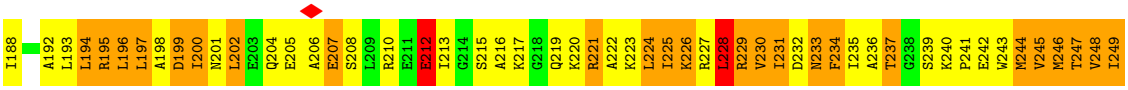


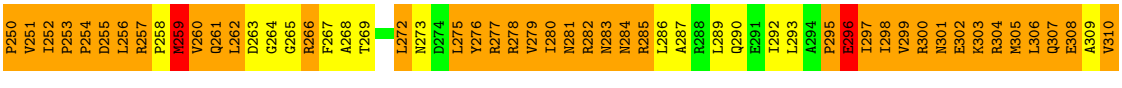


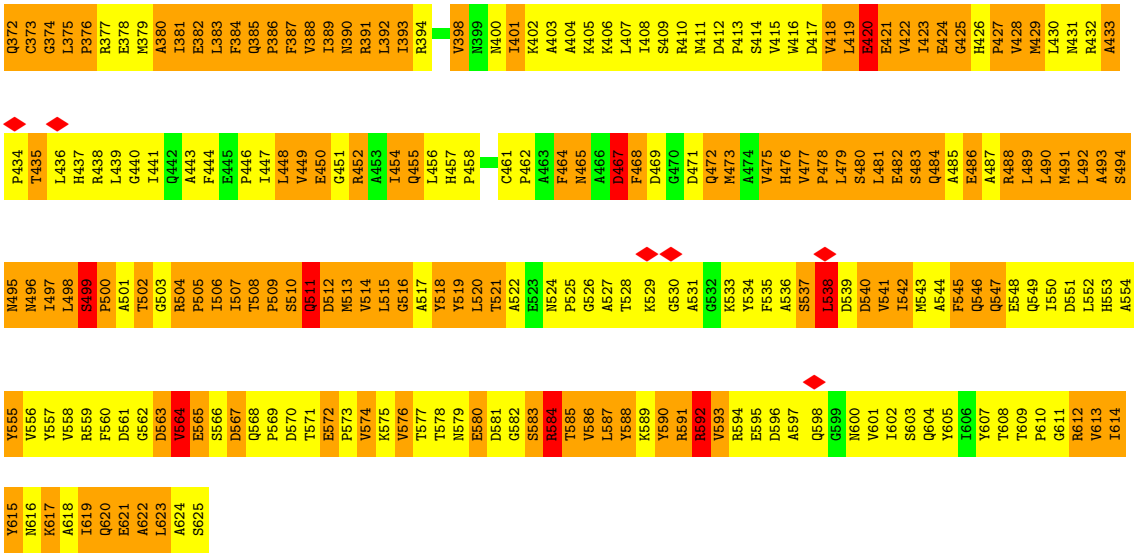
• Molecule 6: DNA-directed RNA polymerase subunit gamma

Chain E:

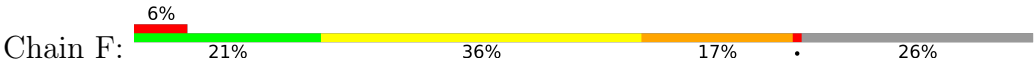


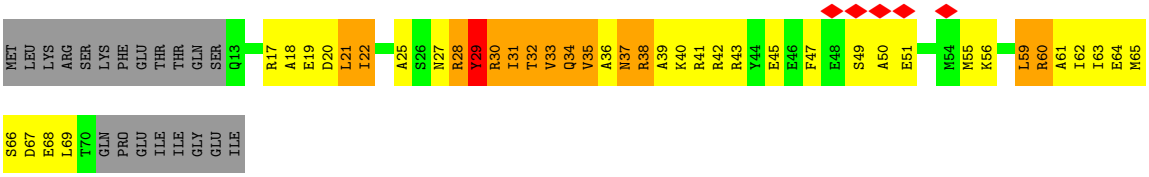




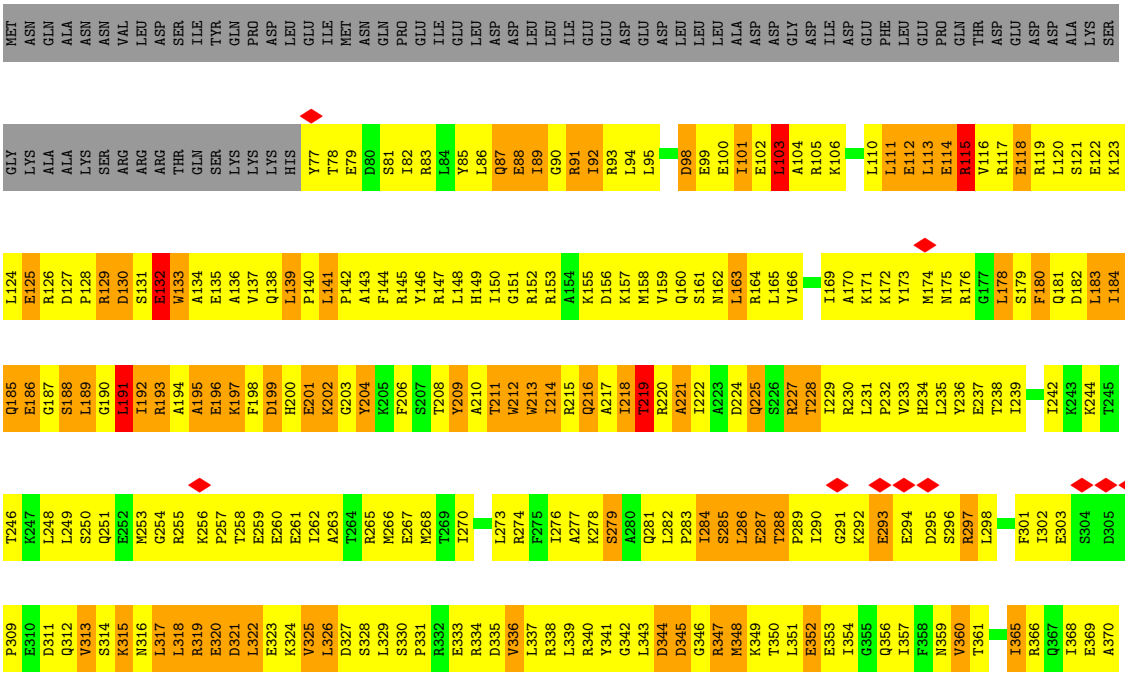


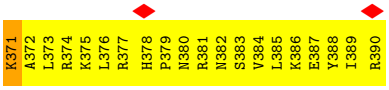
• Molecule 7: DNA-directed RNA polymerase subunit omega





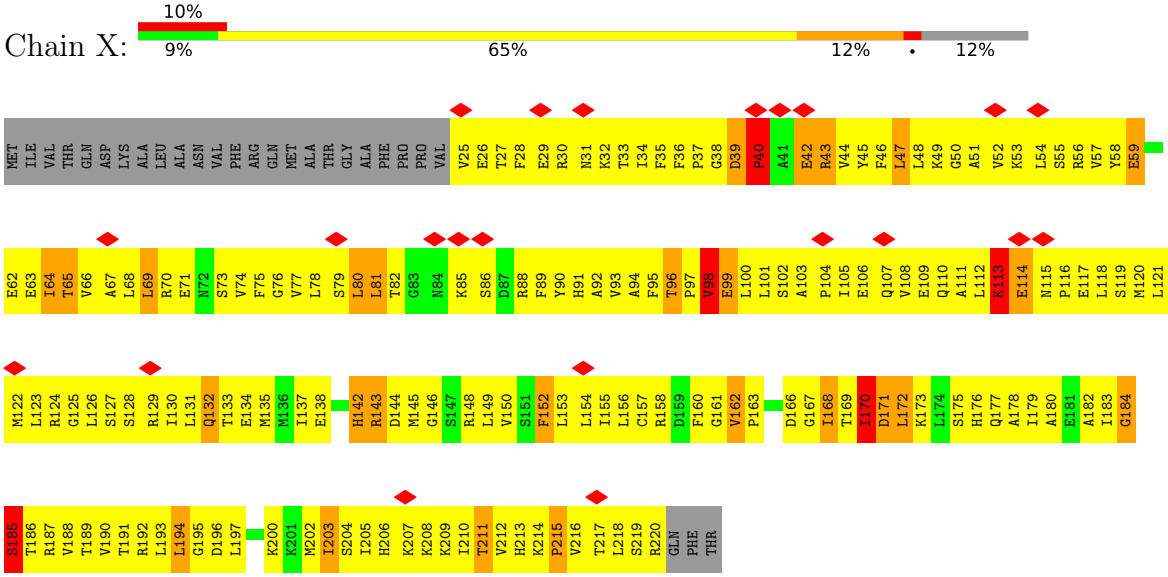
• Molecule 8: RNA polymerase sigma factor SigA





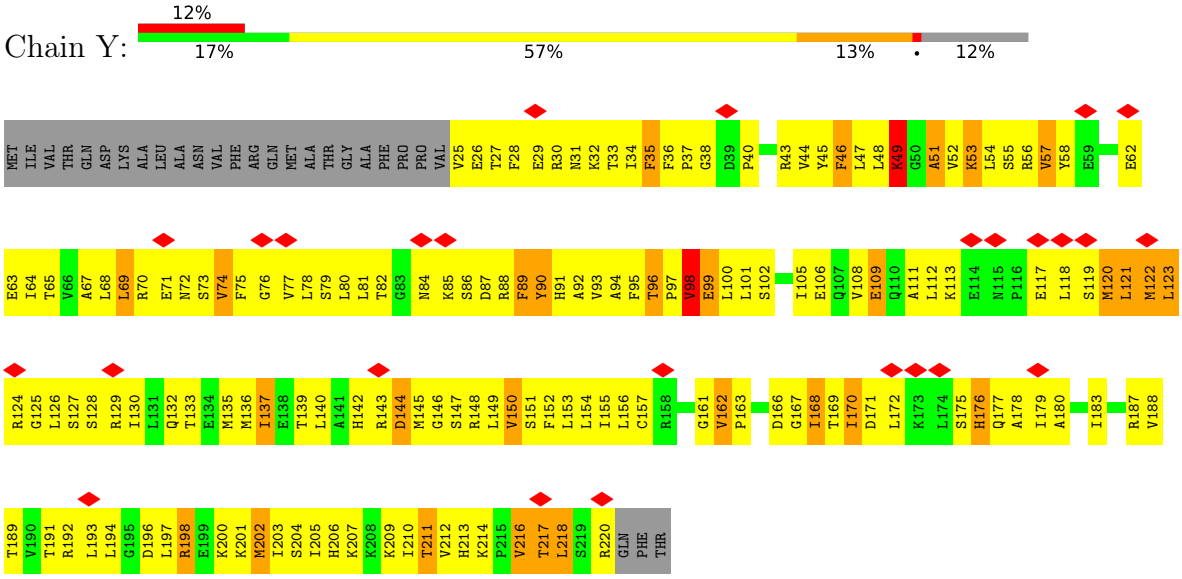
• Molecule 9: NtcA

Chain X:



• Molecule 9: 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	45239	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	0.045	Depositor
Minimum map value	-0.015	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	321.00003, 321.00003, 321.00003	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.07, 1.07, 1.07	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	6.62	598/1523 (39.3%)	2.59	159/2350 (6.8%)
2	2	6.00	432/1244 (34.7%)	2.54	114/1915 (6.0%)
3	A	3.14	815/8632 (9.4%)	1.90	342/11688 (2.9%)
4	B	2.10	345/9414 (3.7%)	1.57	200/12760 (1.6%)
5	C	2.79	124/1788 (6.9%)	1.89	69/2420 (2.9%)
5	D	2.95	144/1788 (8.1%)	1.95	73/2420 (3.0%)
6	E	3.21	485/5014 (9.7%)	1.80	189/6789 (2.8%)
7	F	2.32	22/478 (4.6%)	1.46	12/639 (1.9%)
8	G	1.87	81/2635 (3.1%)	1.39	45/3533 (1.3%)
9	X	0.99	8/1563 (0.5%)	1.27	15/2107 (0.7%)
9	Y	0.94	6/1563 (0.4%)	1.27	20/2107 (0.9%)
All	All	3.06	3060/35642 (8.6%)	1.79	1238/48728 (2.5%)

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	0	1
2	2	0	1
3	A	0	48
4	B	0	87
5	C	0	10
5	D	0	13
6	E	0	17
7	F	0	1
8	G	0	6
9	X	0	5
9	Y	0	6
All	All	0	195

All (3060) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	62	DT	C1'-N1	-26.91	1.09	1.47
2	2	33	DA	N9-C4	-25.87	1.22	1.37
1	1	77	DA	N9-C4	-25.79	1.22	1.37
2	2	66	DA	N9-C4	-25.75	1.22	1.37
2	2	67	DA	O3'-P	24.28	1.90	1.61
2	2	46	DT	C1'-N1	-23.81	1.14	1.47
1	1	99	DT	C4-C5	-23.08	1.24	1.45
1	1	87	DA	N9-C4	-22.59	1.24	1.37
1	1	84	DA	N9-C4	-22.32	1.24	1.37
2	2	37	DT	C1'-N1	-22.24	1.16	1.47
1	1	91	DT	C1'-N1	-22.10	1.16	1.47
1	1	88	DA	N9-C4	-21.45	1.25	1.37
1	1	72	DT	C1'-N1	-21.39	1.17	1.47
6	E	117	TYR	CA-C	-21.32	0.97	1.52
1	1	61	DT	C4-C5	-20.93	1.26	1.45
5	D	45	LEU	CA-C	-20.92	0.98	1.52
5	C	45	LEU	CA-C	-20.91	0.98	1.52
1	1	102	DA	N9-C4	-20.53	1.25	1.37
1	1	96	DC	C1'-N1	-20.28	1.18	1.47
1	1	89	DA	N9-C4	-20.19	1.25	1.37
5	C	199	TRP	CB-CG	-20.10	1.14	1.50
4	B	653	TYR	CG-CD1	-20.08	1.13	1.39
5	D	199	TRP	CB-CG	-20.07	1.14	1.50
2	2	45	DA	N9-C4	-20.06	1.25	1.37
4	B	653	TYR	CE1-CZ	-20.03	1.12	1.38
1	1	95	DT	C1'-N1	-19.99	1.19	1.47
8	G	213	TRP	CB-CG	-19.85	1.14	1.50
2	2	50	DG	N7-C5	-19.48	1.27	1.39
4	B	631	TRP	CG-CD1	-19.29	1.09	1.36
1	1	98	DG	C6-N1	-19.26	1.26	1.39
2	2	36	DT	C1'-N1	-19.13	1.20	1.47
1	1	97	DT	C1'-N1	-19.05	1.20	1.47
6	E	61	ARG	CA-C	-19.04	1.03	1.52
2	2	29	DA	C6-N1	-19.03	1.22	1.35
6	E	373	CYS	CB-SG	-19.00	1.50	1.82
1	1	100	DA	C5-C4	-19.00	1.25	1.38
2	2	43	DG	C3'-O3'	-18.81	1.19	1.44
3	A	674	SER	CA-CB	-18.76	1.24	1.52
3	A	690	TYR	CA-CB	-18.70	1.12	1.53
3	A	1079	SER	CA-C	-18.49	1.04	1.52
1	1	104	DT	C1'-N1	-18.46	1.21	1.47
1	1	97	DT	C2-N3	-18.45	1.23	1.37
1	1	90	DA	N9-C4	-18.39	1.26	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	62	DT	C5-C6	-18.24	1.21	1.34
1	1	62	DT	N1-C6	-18.15	1.25	1.38
3	A	720	GLU	CB-CG	-17.93	1.18	1.52
4	B	325	GLU	CB-CG	-17.90	1.18	1.52
1	1	99	DT	C5-C6	-17.86	1.21	1.34
2	2	58	DA	N9-C4	-17.76	1.27	1.37
2	2	57	DT	C1'-N1	-17.70	1.22	1.47
6	E	116	TRP	CB-CG	-17.62	1.18	1.50
1	1	79	DA	N9-C4	-17.57	1.27	1.37
1	1	75	DA	C5-C6	-17.48	1.25	1.41
1	1	104	DT	N1-C2	-17.16	1.24	1.38
1	1	98	DG	N9-C4	-17.16	1.24	1.38
1	1	84	DA	C5-C6	-17.14	1.25	1.41
4	B	271	GLU	CG-CD	-17.02	1.26	1.51
2	2	30	DG	C6-N1	-16.99	1.27	1.39
1	1	74	DT	C1'-N1	-16.93	1.23	1.47
1	1	98	DG	C5-C4	-16.93	1.26	1.38
1	1	80	DA	N9-C4	-16.92	1.27	1.37
2	2	53	DT	C1'-N1	-16.91	1.23	1.47
3	A	762	TRP	CB-CG	-16.90	1.19	1.50
2	2	39	DT	C1'-N1	-16.90	1.23	1.47
2	2	50	DG	C8-N7	-16.80	1.20	1.30
2	2	30	DG	C5-C4	-16.79	1.26	1.38
2	2	29	DA	N9-C4	-16.78	1.27	1.37
6	E	310	VAL	CB-CG2	-16.75	1.17	1.52
2	2	50	DG	N9-C8	-16.74	1.26	1.37
1	1	86	DG	N9-C4	-16.72	1.24	1.38
2	2	33	DA	N3-C4	-16.66	1.24	1.34
2	2	32	DA	N9-C4	-16.55	1.27	1.37
1	1	96	DC	N1-C6	-16.48	1.27	1.37
1	1	60	DT	C3'-O3'	-16.39	1.22	1.44
6	E	279	VAL	CB-CG2	-16.30	1.18	1.52
6	E	363	VAL	CB-CG1	-16.11	1.19	1.52
1	1	99	DT	C5-C7	-16.08	1.40	1.50
1	1	95	DT	N1-C2	-16.01	1.25	1.38
1	1	75	DA	N9-C4	-15.99	1.28	1.37
1	1	106	DG	N9-C4	-15.95	1.25	1.38
1	1	95	DT	C2-N3	-15.94	1.25	1.37
2	2	35	DA	N9-C4	-15.90	1.28	1.37
3	A	901	CYS	CB-SG	-15.89	1.55	1.82
3	A	850	ASP	CB-CG	-15.87	1.18	1.51
6	E	142	PHE	CB-CG	-15.87	1.24	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	883	VAL	CB-CG1	-15.86	1.19	1.52
2	2	36	DT	N1-C2	-15.85	1.25	1.38
4	B	653	TYR	CE2-CZ	-15.84	1.18	1.38
6	E	475	VAL	CB-CG2	-15.83	1.19	1.52
5	C	170	PHE	C-N	-15.68	0.97	1.34
5	D	170	PHE	C-N	-15.67	0.98	1.34
3	A	905	TRP	CB-CG	-15.62	1.22	1.50
4	B	43	TYR	CD1-CE1	-15.62	1.16	1.39
3	A	865	ILE	C-N	-15.52	0.98	1.34
2	2	29	DA	N3-C4	-15.50	1.25	1.34
1	1	98	DG	N7-C5	-15.49	1.29	1.39
2	2	58	DA	C5-C6	-15.48	1.27	1.41
2	2	34	DA	N3-C4	-15.45	1.25	1.34
1	1	87	DA	N3-C4	-15.42	1.25	1.34
2	2	31	DA	N9-C4	-15.40	1.28	1.37
1	1	74	DT	C5-C6	-15.38	1.23	1.34
2	2	33	DA	C5-C4	-15.37	1.27	1.38
6	E	518	TYR	CD2-CE2	-15.36	1.16	1.39
1	1	95	DT	C3'-O3'	-15.33	1.24	1.44
5	C	176	VAL	CB-CG1	-15.29	1.20	1.52
1	1	62	DT	N1-C2	-15.29	1.25	1.38
5	D	176	VAL	CB-CG1	-15.28	1.20	1.52
4	B	481	TRP	CB-CG	-15.28	1.22	1.50
2	2	50	DG	C5-C4	-15.22	1.27	1.38
6	E	613	VAL	CB-CG1	-15.20	1.21	1.52
3	A	27	LEU	C-N	-15.18	1.05	1.34
3	A	309	TYR	CA-C	-15.14	1.13	1.52
3	A	959	VAL	CB-CG1	-15.11	1.21	1.52
1	1	88	DA	C5-C4	-15.10	1.28	1.38
6	E	311	ASP	CB-CG	-15.09	1.20	1.51
6	E	105	TYR	CD2-CE2	-15.07	1.16	1.39
3	A	900	GLU	CB-CG	-15.06	1.23	1.52
1	1	98	DG	C8-N7	-15.03	1.22	1.30
1	1	94	DT	C3'-O3'	-15.03	1.24	1.44
1	1	98	DG	C5-C6	-15.00	1.27	1.42
1	1	103	DA	N9-C4	-14.98	1.28	1.37
6	E	428	VAL	CB-CG2	-14.96	1.21	1.52
3	A	880	VAL	CB-CG2	-14.95	1.21	1.52
3	A	1070	PHE	CB-CG	-14.95	1.25	1.51
6	E	615	TYR	CB-CG	-14.93	1.29	1.51
1	1	59	DT	N1-C2	-14.93	1.26	1.38
2	2	67	DA	N9-C4	-14.92	1.28	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	38	DT	C1'-N1	-14.87	1.26	1.47
2	2	38	DT	C2-N3	-14.85	1.25	1.37
3	A	687	VAL	CB-CG1	-14.82	1.21	1.52
1	1	78	DA	N9-C4	-14.81	1.28	1.37
2	2	33	DA	N7-C5	-14.79	1.30	1.39
2	2	29	DA	C3'-O3'	-14.77	1.24	1.44
3	A	51	ASN	CA-C	-14.76	1.14	1.52
1	1	85	DG	N9-C4	-14.70	1.26	1.38
1	1	75	DA	C5-C4	-14.66	1.28	1.38
6	E	385	GLN	C-N	-14.64	1.06	1.34
3	A	898	VAL	CB-CG1	-14.63	1.22	1.52
6	E	518	TYR	CD1-CE1	-14.62	1.17	1.39
1	1	77	DA	C3'-O3'	-14.61	1.25	1.44
2	2	45	DA	C1'-N9	-14.57	1.26	1.47
6	E	477	VAL	CB-CG1	-14.57	1.22	1.52
1	1	86	DG	C5-C4	-14.56	1.28	1.38
3	A	961	ASP	CB-CG	-14.55	1.21	1.51
1	1	95	DT	C5-C6	-14.55	1.24	1.34
1	1	98	DG	N9-C8	-14.51	1.27	1.37
6	E	615	TYR	CE2-CZ	-14.51	1.19	1.38
3	A	848	VAL	CB-CG1	-14.49	1.22	1.52
1	1	73	DA	N9-C4	-14.48	1.29	1.37
2	2	34	DA	C5-C4	-14.47	1.28	1.38
3	A	960	TYR	CD1-CE1	-14.47	1.17	1.39
2	2	34	DA	N9-C4	-14.44	1.29	1.37
1	1	77	DA	C5-C4	-14.43	1.28	1.38
6	E	615	TYR	CD2-CE2	-14.43	1.17	1.39
3	A	1036	GLU	CG-CD	-14.39	1.30	1.51
2	2	29	DA	C5-C6	-14.39	1.28	1.41
2	2	29	DA	N7-C5	-14.39	1.30	1.39
3	A	395	GLU	CB-CG	-14.37	1.24	1.52
1	1	87	DA	C5-C4	-14.36	1.28	1.38
2	2	66	DA	C2-N3	-14.31	1.20	1.33
1	1	91	DT	C3'-O3'	-14.30	1.25	1.44
3	A	960	TYR	CD2-CE2	-14.30	1.17	1.39
2	2	51	DT	C5-C6	-14.28	1.24	1.34
2	2	41	DC	C1'-N1	-14.28	1.27	1.47
1	1	97	DT	N1-C2	-14.26	1.26	1.38
1	1	93	DT	C1'-N1	-14.25	1.27	1.47
3	A	1086	VAL	CB-CG1	-14.24	1.23	1.52
2	2	32	DA	C6-N1	-14.24	1.25	1.35
6	E	361	VAL	CB-CG1	-14.23	1.23	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	880	VAL	CB-CG1	-14.22	1.23	1.52
3	A	688	VAL	CB-CG2	-14.18	1.23	1.52
6	E	428	VAL	CB-CG1	-14.18	1.23	1.52
1	1	74	DT	N1-C2	-14.14	1.26	1.38
1	1	60	DT	C1'-N1	-14.14	1.27	1.47
1	1	100	DA	N1-C2	-14.14	1.21	1.34
6	E	388	VAL	CB-CG1	-14.13	1.23	1.52
4	B	19	TRP	CB-CG	-14.13	1.24	1.50
3	A	883	VAL	CB-CG2	-14.07	1.23	1.52
2	2	53	DT	C2-N3	-14.05	1.26	1.37
1	1	91	DT	N1-C6	-14.03	1.28	1.38
4	B	1145	VAL	CB-CG1	-14.03	1.23	1.52
8	G	204	TYR	CD1-CE1	-14.02	1.18	1.39
2	2	30	DG	N3-C4	-14.01	1.25	1.35
4	B	38	ASP	CB-CG	-14.01	1.22	1.51
3	A	898	VAL	CB-CG2	-13.99	1.23	1.52
1	1	99	DT	C2-N3	-13.99	1.26	1.37
3	A	839	TYR	CD1-CE1	-13.96	1.18	1.39
6	E	51	LYS	C-N	-13.95	1.07	1.34
1	1	100	DA	N9-C8	-13.92	1.26	1.37
2	2	38	DT	N3-C4	-13.90	1.27	1.38
2	2	46	DT	C5-C6	-13.86	1.24	1.34
3	A	720	GLU	CG-CD	-13.85	1.31	1.51
1	1	86	DG	N3-C4	-13.84	1.25	1.35
1	1	75	DA	C6-N6	-13.83	1.22	1.33
4	B	1145	VAL	CB-CG2	-13.82	1.23	1.52
6	E	251	VAL	CB-CG2	-13.82	1.23	1.52
5	C	195	LEU	CA-CB	-13.79	1.22	1.53
5	D	195	LEU	CA-CB	-13.77	1.22	1.53
3	A	978	TYR	CE2-CZ	-13.76	1.20	1.38
3	A	978	TYR	CD1-CE1	-13.76	1.18	1.39
4	B	1237	GLU	CB-CG	-13.75	1.26	1.52
4	B	1222	GLU	CB-CG	-13.75	1.26	1.52
3	A	714	TYR	CE1-CZ	-13.74	1.20	1.38
1	1	73	DA	C5-C4	-13.74	1.29	1.38
1	1	85	DG	C5-C6	-13.74	1.28	1.42
3	A	688	VAL	CB-CG1	-13.73	1.24	1.52
3	A	1036	GLU	CB-CG	-13.71	1.26	1.52
3	A	574	VAL	CB-CG1	-13.71	1.24	1.52
7	F	35	VAL	CB-CG1	-13.70	1.24	1.52
3	A	960	TYR	CE2-CZ	-13.68	1.20	1.38
1	1	101	DT	C3'-O3'	-13.68	1.26	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	105	DG	C6-N1	-13.66	1.29	1.39
1	1	84	DA	N7-C5	-13.66	1.31	1.39
3	A	564	VAL	C-N	-13.65	1.08	1.34
4	B	43	TYR	CE1-CZ	-13.63	1.20	1.38
3	A	684	GLN	CG-CD	-13.61	1.19	1.51
6	E	508	THR	C-N	-13.61	1.08	1.34
6	E	518	TYR	CB-CG	-13.59	1.31	1.51
1	1	99	DT	C1'-N1	-13.58	1.28	1.47
1	1	106	DG	N3-C4	-13.57	1.25	1.35
6	E	253	PRO	C-N	-13.57	1.08	1.34
2	2	51	DT	C1'-N1	-13.54	1.28	1.47
1	1	86	DG	C3'-O3'	-13.53	1.26	1.44
2	2	51	DT	C2-N3	-13.53	1.26	1.37
1	1	90	DA	C5-C6	-13.51	1.28	1.41
2	2	32	DA	N3-C4	-13.49	1.26	1.34
4	B	43	TYR	CD2-CE2	-13.48	1.19	1.39
6	E	482	GLU	CB-CG	-13.48	1.26	1.52
5	C	198	VAL	CB-CG1	-13.46	1.24	1.52
5	D	198	VAL	CB-CG1	-13.44	1.24	1.52
2	2	37	DT	N1-C2	-13.39	1.27	1.38
1	1	107	DG	N7-C5	-13.37	1.31	1.39
6	E	308	GLU	CG-CD	-13.37	1.31	1.51
9	X	40	PRO	N-CA	13.37	1.70	1.47
3	A	687	VAL	CB-CG2	-13.36	1.24	1.52
2	2	45	DA	C5-C4	-13.34	1.29	1.38
1	1	105	DG	C3'-O3'	-13.29	1.26	1.44
3	A	900	GLU	CG-CD	-13.29	1.32	1.51
7	F	35	VAL	CB-CG2	-13.24	1.25	1.52
3	A	976	VAL	CB-CG1	-13.24	1.25	1.52
1	1	104	DT	C2-O2	-13.23	1.11	1.22
6	E	382	GLU	CB-CG	-13.22	1.27	1.52
8	G	133	TRP	CB-CG	-13.21	1.26	1.50
4	B	271	GLU	CB-CG	-13.20	1.27	1.52
6	E	339	GLU	CB-CG	-13.19	1.27	1.52
4	B	280	VAL	CB-CG1	-13.18	1.25	1.52
8	G	212	TRP	CB-CG	-13.18	1.26	1.50
6	E	251	VAL	CB-CG1	-13.18	1.25	1.52
2	2	46	DT	N1-C6	-13.17	1.29	1.38
3	A	976	VAL	CB-CG2	-13.17	1.25	1.52
3	A	690	TYR	CE1-CZ	-13.16	1.21	1.38
1	1	74	DT	C4-C5	-13.16	1.33	1.45
1	1	90	DA	N7-C5	-13.16	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	308	GLU	CB-CG	-13.16	1.27	1.52
2	2	30	DG	N9-C4	-13.15	1.27	1.38
3	A	690	TYR	CE2-CZ	-13.14	1.21	1.38
3	A	1032	TYR	CD1-CE1	-13.14	1.19	1.39
6	E	514	VAL	CB-CG1	-13.12	1.25	1.52
6	E	477	VAL	CB-CG2	-13.11	1.25	1.52
3	A	932	VAL	CB-CG2	-13.11	1.25	1.52
3	A	844	ARG	CB-CG	-13.10	1.17	1.52
6	E	299	VAL	CB-CG1	-13.10	1.25	1.52
2	2	32	DA	C5-C4	-13.09	1.29	1.38
1	1	89	DA	N3-C4	-13.08	1.27	1.34
6	E	363	VAL	CB-CG2	-13.07	1.25	1.52
3	A	961	ASP	CA-CB	-13.06	1.25	1.53
6	E	105	TYR	CE2-CZ	-13.06	1.21	1.38
2	2	35	DA	C5-C4	-13.05	1.29	1.38
3	A	1032	TYR	CE2-CZ	-13.05	1.21	1.38
6	E	514	VAL	CB-CG2	-13.03	1.25	1.52
4	B	43	TYR	CE2-CZ	-13.03	1.21	1.38
3	A	932	VAL	CB-CG1	-13.01	1.25	1.52
1	1	88	DA	C5-C6	-13.00	1.29	1.41
1	1	89	DA	C5-C4	-12.99	1.29	1.38
5	D	20	TYR	CB-CG	-12.98	1.32	1.51
3	A	579	GLU	CB-CG	-12.98	1.27	1.52
6	E	248	VAL	CB-CG1	-12.98	1.25	1.52
6	E	117	TYR	CD2-CE2	-12.97	1.19	1.39
1	1	91	DT	C5-C6	-12.97	1.25	1.34
3	A	226	GLU	CG-CD	-12.97	1.32	1.51
6	E	388	VAL	CB-CG2	-12.97	1.25	1.52
1	1	87	DA	C5-C6	-12.94	1.29	1.41
3	A	840	VAL	CB-CG1	-12.93	1.25	1.52
7	F	29	TYR	CD1-CE1	-12.93	1.20	1.39
6	E	245	VAL	CB-CG2	-12.92	1.25	1.52
3	A	323	ARG	CB-CG	-12.92	1.17	1.52
2	2	33	DA	N9-C8	-12.91	1.27	1.37
1	1	99	DT	N1-C2	-12.90	1.27	1.38
1	1	89	DA	N7-C5	-12.90	1.31	1.39
3	A	1040	VAL	CB-CG1	-12.89	1.25	1.52
1	1	94	DT	C5-C6	-12.89	1.25	1.34
6	E	499	SER	C-N	-12.88	1.09	1.34
1	1	95	DT	N1-C6	-12.88	1.29	1.38
1	1	98	DG	N1-C2	-12.86	1.27	1.37
1	1	88	DA	C8-N7	-12.85	1.22	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	974	VAL	C-N	-12.82	1.04	1.34
4	B	656	ALA	CA-C	-12.80	1.19	1.52
1	1	86	DG	C2-N3	-12.79	1.22	1.32
1	1	81	DT	C3'-O3'	-12.78	1.27	1.44
6	E	248	VAL	CB-CG2	-12.78	1.26	1.52
2	2	39	DT	N1-C6	-12.77	1.29	1.38
3	A	1032	TYR	CD2-CE2	-12.77	1.20	1.39
8	G	204	TYR	CE1-CZ	-12.76	1.22	1.38
2	2	36	DT	C2-N3	-12.76	1.27	1.37
2	2	49	DT	C1'-N1	-12.74	1.29	1.47
3	A	959	VAL	CB-CG2	-12.73	1.26	1.52
2	2	59	DG	C8-N7	-12.73	1.23	1.30
6	E	475	VAL	CB-CG1	-12.73	1.26	1.52
2	2	51	DT	C5-C7	-12.70	1.42	1.50
4	B	1143	VAL	CB-CG2	-12.68	1.26	1.52
6	E	249	ILE	C-N	-12.68	1.10	1.34
3	A	564	VAL	CB-CG2	-12.67	1.26	1.52
2	2	30	DG	N9-C8	-12.66	1.28	1.37
2	2	44	DA	N9-C4	-12.66	1.30	1.37
1	1	98	DG	N3-C4	-12.65	1.26	1.35
1	1	94	DT	C2-N3	-12.64	1.27	1.37
2	2	51	DT	N1-C6	-12.61	1.29	1.38
6	E	302	GLU	CB-CG	-12.61	1.28	1.52
1	1	104	DT	N1-C6	-12.60	1.29	1.38
3	A	978	TYR	CD2-CE2	-12.59	1.20	1.39
4	B	1237	GLU	CG-CD	-12.58	1.33	1.51
5	C	205	SER	C-N	-12.58	1.10	1.34
1	1	119	DA	N9-C4	-12.57	1.30	1.37
5	D	205	SER	C-N	-12.57	1.10	1.34
1	1	107	DG	N9-C4	-12.56	1.27	1.38
1	1	94	DT	N1-C2	-12.55	1.28	1.38
5	D	173	VAL	CB-CG1	-12.55	1.26	1.52
1	1	97	DT	C5-C6	-12.54	1.25	1.34
5	C	43	VAL	CB-CG1	-12.54	1.26	1.52
6	E	279	VAL	CB-CG1	-12.54	1.26	1.52
2	2	39	DT	C5-C6	-12.54	1.25	1.34
2	2	32	DA	C1'-N9	-12.53	1.29	1.47
3	A	1068	GLU	CB-CG	-12.52	1.28	1.52
1	1	104	DT	N3-C4	-12.51	1.28	1.38
2	2	45	DA	N9-C8	-12.51	1.27	1.37
2	2	30	DG	N1-C2	-12.50	1.27	1.37
1	1	105	DG	N7-C5	-12.50	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	267	TYR	CA-CB	-12.50	1.26	1.53
5	C	173	VAL	CB-CG1	-12.50	1.26	1.52
3	A	881	ASP	CB-CG	-12.49	1.25	1.51
3	A	378	PHE	CB-CG	-12.49	1.30	1.51
3	A	676	GLU	CB-CG	-12.49	1.28	1.52
2	2	67	DA	N3-C4	-12.49	1.27	1.34
4	B	177	TYR	CB-CG	-12.48	1.32	1.51
2	2	43	DG	N9-C4	-12.48	1.27	1.38
3	A	395	GLU	CG-CD	-12.46	1.33	1.51
5	D	43	VAL	CB-CG1	-12.46	1.26	1.52
4	B	43	TYR	CG-CD1	-12.45	1.23	1.39
8	G	287	GLU	CG-CD	-12.44	1.33	1.51
5	D	81	ARG	CB-CG	-12.42	1.19	1.52
5	C	81	ARG	CB-CG	-12.41	1.19	1.52
3	A	905	TRP	CE3-CZ3	-12.39	1.17	1.38
4	B	1239	VAL	CB-CG1	-12.39	1.26	1.52
3	A	136	VAL	CB-CG2	-12.39	1.26	1.52
4	B	201	VAL	CB-CG1	-12.36	1.26	1.52
3	A	96	TYR	CD2-CE2	-12.35	1.20	1.39
2	2	52	DA	N9-C4	-12.33	1.30	1.37
3	A	1076	GLU	CB-CG	-12.32	1.28	1.52
3	A	714	TYR	CE2-CZ	-12.32	1.22	1.38
2	2	49	DT	C3'-O3'	-12.31	1.27	1.44
2	2	30	DG	C8-N7	-12.30	1.23	1.30
3	A	978	TYR	CE1-CZ	-12.29	1.22	1.38
1	1	92	DT	C1'-N1	-12.28	1.30	1.47
4	B	243	VAL	CB-CG2	-12.26	1.27	1.52
4	B	31	VAL	CB-CG1	-12.24	1.27	1.52
6	E	105	TYR	CD1-CE1	-12.22	1.21	1.39
2	2	36	DT	C5-C6	-12.22	1.25	1.34
1	1	98	DG	C2-N3	-12.21	1.23	1.32
1	1	84	DA	C5-C4	-12.20	1.30	1.38
2	2	30	DG	C5-C6	-12.20	1.30	1.42
1	1	115	DA	N9-C4	-12.20	1.30	1.37
3	A	905	TRP	CE2-CZ2	-12.19	1.19	1.39
1	1	86	DG	C1'-N9	-12.18	1.30	1.47
3	A	423	HIS	C-N	-12.17	1.11	1.34
1	1	90	DA	C6-N1	-12.15	1.27	1.35
6	E	117	TYR	CD1-CE1	-12.15	1.21	1.39
5	C	197	GLU	CB-CG	-12.15	1.29	1.52
2	2	37	DT	C2-N3	-12.13	1.28	1.37
1	1	106	DG	C6-N1	-12.12	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	197	GLU	CB-CG	-12.12	1.29	1.52
6	E	60	GLU	CB-CG	-12.11	1.29	1.52
1	1	88	DA	C3'-O3'	-12.10	1.28	1.44
2	2	39	DT	N1-C2	-12.08	1.28	1.38
3	A	866	LEU	C-N	-12.08	1.11	1.34
2	2	60	DC	N1-C6	-12.08	1.29	1.37
1	1	94	DT	C1'-N1	-12.08	1.30	1.47
6	E	361	VAL	CB-CG2	-12.07	1.27	1.52
1	1	102	DA	C5-C4	-12.07	1.30	1.38
6	E	545	PHE	CB-CG	-12.07	1.30	1.51
3	A	391	ASN	C-N	-12.06	1.11	1.34
2	2	29	DA	C5-C4	-12.04	1.30	1.38
8	G	88	GLU	CB-CG	-12.04	1.29	1.52
3	A	899	PHE	CB-CG	-12.03	1.30	1.51
2	2	30	DG	N7-C5	-12.03	1.32	1.39
1	1	83	DC	C1'-N1	-12.01	1.30	1.47
6	E	541	VAL	CB-CG1	-12.01	1.27	1.52
1	1	88	DA	N7-C5	-12.00	1.32	1.39
3	A	330	GLU	CG-CD	-11.98	1.33	1.51
3	A	838	VAL	CB-CG1	-11.98	1.27	1.52
6	E	105	TYR	CB-CG	-11.97	1.33	1.51
6	E	615	TYR	CG-CD1	-11.96	1.23	1.39
3	A	978	TYR	CG-CD1	-11.95	1.23	1.39
3	A	1032	TYR	CB-CG	-11.93	1.33	1.51
2	2	51	DT	N3-C4	-11.92	1.29	1.38
1	1	95	DT	C4-C5	-11.92	1.34	1.45
2	2	31	DA	C1'-N9	-11.92	1.30	1.47
1	1	105	DG	N3-C4	-11.91	1.27	1.35
5	D	181	GLU	CG-CD	-11.91	1.34	1.51
3	A	128	PHE	CB-CG	-11.91	1.31	1.51
1	1	82	DT	C3'-O3'	-11.90	1.28	1.44
1	1	106	DG	C5-C4	-11.90	1.30	1.38
3	A	998	TYR	CB-CG	-11.89	1.33	1.51
3	A	34	GLN	CB-CG	-11.89	1.20	1.52
1	1	85	DG	C1'-N9	-11.89	1.30	1.47
1	1	89	DA	C5-C6	-11.88	1.30	1.41
3	A	690	TYR	CB-CG	-11.88	1.33	1.51
2	2	47	DT	C1'-N1	-11.88	1.30	1.47
3	A	434	GLU	CB-CG	-11.88	1.29	1.52
1	1	77	DA	C5-C6	-11.88	1.30	1.41
2	2	67	DA	C6-N1	-11.88	1.27	1.35
1	1	72	DT	N1-C2	-11.87	1.28	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	31	DA	C5-C4	-11.86	1.30	1.38
1	1	79	DA	C5-C6	-11.85	1.30	1.41
3	A	684	GLN	CB-CG	-11.84	1.20	1.52
3	A	267	TYR	CD1-CE1	-11.82	1.21	1.39
1	1	103	DA	C5-C6	-11.79	1.30	1.41
3	A	814	VAL	CB-CG2	-11.78	1.28	1.52
1	1	101	DT	C1'-N1	-11.78	1.30	1.47
3	A	816	ASP	CB-CG	-11.78	1.27	1.51
4	B	172	TYR	CD1-CE1	-11.78	1.21	1.39
3	A	960	TYR	CE1-CZ	-11.78	1.23	1.38
2	2	35	DA	N3-C4	-11.77	1.27	1.34
3	A	226	GLU	CD-OE2	-11.77	1.12	1.25
4	B	31	VAL	CB-CG2	-11.76	1.28	1.52
4	B	1123	ASN	CB-CG	-11.76	1.24	1.51
3	A	978	TYR	CB-CG	-11.72	1.34	1.51
3	A	526	TYR	CD1-CE1	-11.72	1.21	1.39
1	1	85	DG	C5-C4	-11.71	1.30	1.38
1	1	80	DA	N3-C4	-11.70	1.27	1.34
1	1	101	DT	C5-C6	-11.69	1.26	1.34
1	1	88	DA	N3-C4	-11.67	1.27	1.34
3	A	40	TRP	CB-CG	-11.67	1.29	1.50
2	2	58	DA	N7-C5	-11.66	1.32	1.39
2	2	53	DT	C5-C6	-11.65	1.26	1.34
1	1	79	DA	C5-C4	-11.64	1.30	1.38
2	2	43	DG	C5-C6	-11.61	1.30	1.42
4	B	1222	GLU	CG-CD	-11.60	1.34	1.51
8	G	196	GLU	CB-CG	-11.60	1.30	1.52
6	E	518	TYR	CE2-CZ	-11.60	1.23	1.38
6	E	302	GLU	CG-CD	-11.59	1.34	1.51
6	E	464	PHE	CB-CG	-11.57	1.31	1.51
1	1	94	DT	N1-C6	-11.57	1.30	1.38
3	A	685	ASN	CB-CG	-11.54	1.24	1.51
2	2	59	DG	N9-C4	-11.53	1.28	1.38
4	B	1122	VAL	CB-CG2	-11.53	1.28	1.52
1	1	74	DT	C2-N3	-11.53	1.28	1.37
1	1	87	DA	C3'-O3'	-11.53	1.28	1.44
1	1	106	DG	N7-C5	-11.52	1.32	1.39
1	1	119	DA	C3'-O3'	-11.51	1.28	1.44
2	2	49	DT	N1-C2	-11.51	1.28	1.38
4	B	43	TYR	CB-CG	-11.50	1.34	1.51
1	1	58	DA	C2-N3	-11.48	1.23	1.33
1	1	104	DT	C3'-O3'	-11.48	1.29	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	43	GLU	CD-OE1	-11.47	1.13	1.25
2	2	40	DC	C1'-N1	-11.47	1.31	1.47
2	2	47	DT	C5-C6	-11.47	1.26	1.34
6	E	418	VAL	CB-CG1	-11.47	1.28	1.52
3	A	376	GLU	CB-CG	-11.45	1.30	1.52
3	A	1032	TYR	CG-CD1	-11.45	1.24	1.39
6	E	518	TYR	CG-CD2	-11.44	1.24	1.39
1	1	101	DT	C4'-C3'	-11.44	1.41	1.52
2	2	49	DT	C2-N3	-11.44	1.28	1.37
2	2	40	DC	C2-O2	-11.44	1.14	1.24
3	A	558	ASN	CB-CG	-11.43	1.24	1.51
4	B	21	PHE	CB-CG	-11.43	1.31	1.51
5	D	178	TYR	CE1-CZ	-11.43	1.23	1.38
3	A	938	GLU	CG-CD	-11.43	1.34	1.51
5	D	197	GLU	CG-CD	-11.42	1.34	1.51
3	A	722	TYR	CG-CD1	-11.41	1.24	1.39
4	B	171	GLU	CB-CG	-11.40	1.30	1.52
6	E	140	VAL	CB-CG1	-11.40	1.28	1.52
1	1	104	DT	C2-N3	-11.40	1.28	1.37
1	1	77	DA	C1'-N9	-11.39	1.31	1.47
5	C	197	GLU	CG-CD	-11.38	1.34	1.51
5	C	178	TYR	CE1-CZ	-11.35	1.23	1.38
6	E	519	TYR	CE1-CZ	-11.34	1.23	1.38
6	E	310	VAL	CB-CG1	-11.33	1.29	1.52
6	E	613	VAL	CB-CG2	-11.32	1.29	1.52
1	1	118	DG	N9-C4	-11.31	1.28	1.38
3	A	848	VAL	CB-CG2	-11.31	1.29	1.52
3	A	960	TYR	CB-CG	-11.31	1.34	1.51
1	1	78	DA	C3'-O3'	-11.31	1.29	1.44
3	A	690	TYR	CG-CD2	-11.30	1.24	1.39
3	A	574	VAL	CB-CG2	-11.30	1.29	1.52
4	B	210	ARG	CG-CD	-11.29	1.23	1.51
6	E	449	VAL	CB-CG2	-11.29	1.29	1.52
1	1	100	DA	C3'-O3'	-11.28	1.29	1.44
4	B	220	ILE	C-N	-11.27	1.12	1.34
3	A	136	VAL	CB-CG1	-11.27	1.29	1.52
6	E	276	TYR	CG-CD1	-11.27	1.24	1.39
2	2	38	DT	N1-C2	-11.26	1.29	1.38
7	F	33	VAL	CB-CG1	-11.25	1.29	1.52
8	G	202	LYS	CA-C	-11.24	1.23	1.52
2	2	57	DT	C3'-O3'	-11.24	1.29	1.44
4	B	49	VAL	CB-CG2	-11.24	1.29	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	177	ASN	CB-CG	-11.23	1.25	1.51
7	F	33	VAL	CB-CG2	-11.23	1.29	1.52
3	A	792	PHE	CA-C	-11.22	1.23	1.52
6	E	276	TYR	CE1-CZ	-11.22	1.24	1.38
5	C	177	ASN	CB-CG	-11.19	1.25	1.51
1	1	90	DA	N3-C4	-11.18	1.28	1.34
1	1	101	DT	N1-C6	-11.17	1.30	1.38
2	2	36	DT	N1-C6	-11.17	1.30	1.38
3	A	714	TYR	CG-CD1	-11.17	1.24	1.39
6	E	234	PHE	CB-CG	-11.17	1.32	1.51
6	E	230	VAL	CB-CG2	-11.17	1.29	1.52
1	1	97	DT	N1-C6	-11.16	1.30	1.38
1	1	80	DA	C3'-O3'	-11.16	1.29	1.44
6	E	117	TYR	CE2-CZ	-11.15	1.24	1.38
3	A	836	VAL	CB-CG2	-11.14	1.29	1.52
4	B	42	ARG	CB-CG	-11.12	1.22	1.52
1	1	58	DA	N9-C4	-11.12	1.31	1.37
6	E	512	ASP	CB-CG	-11.12	1.28	1.51
1	1	97	DT	N3-C4	-11.11	1.29	1.38
3	A	839	TYR	CB-CG	-11.10	1.35	1.51
1	1	61	DT	N1-C6	-11.09	1.30	1.38
4	B	262	THR	C-N	-11.07	1.13	1.34
1	1	103	DA	C3'-O3'	-11.07	1.29	1.44
3	A	1072	VAL	CB-CG1	-11.06	1.29	1.52
8	G	204	TYR	CD2-CE2	-11.06	1.22	1.39
4	B	653	TYR	CD1-CE1	-11.04	1.22	1.39
1	1	73	DA	N3-C4	-11.04	1.28	1.34
2	2	36	DT	C4-C5	-11.02	1.35	1.45
7	F	29	TYR	CD2-CE2	-11.02	1.22	1.39
1	1	105	DG	N9-C8	-11.02	1.30	1.37
3	A	714	TYR	CD1-CE1	-11.01	1.22	1.39
6	E	482	GLU	CG-CD	-11.01	1.35	1.51
3	A	560	GLN	CB-CG	-11.00	1.22	1.52
3	A	998	TYR	CD1-CE1	-10.99	1.22	1.39
6	E	117	TYR	CE1-CZ	-10.99	1.24	1.38
3	A	1072	VAL	CB-CG2	-10.99	1.29	1.52
3	A	840	VAL	CB-CG2	-10.98	1.29	1.52
1	1	106	DG	C5-C6	-10.97	1.31	1.42
1	1	92	DT	N1-C2	-10.96	1.29	1.38
1	1	87	DA	C1'-N9	-10.96	1.31	1.47
5	D	49	GLU	CB-CG	-10.95	1.31	1.52
5	C	49	GLU	CB-CG	-10.93	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	323	ARG	CA-CB	-10.92	1.29	1.53
1	1	86	DG	C5-C6	-10.91	1.31	1.42
4	B	195	TYR	CB-CG	-10.90	1.35	1.51
6	E	117	TYR	CB-CG	-10.90	1.35	1.51
5	D	20	TYR	CD1-CE1	-10.89	1.23	1.39
1	1	88	DA	C1'-N9	-10.88	1.32	1.47
3	A	96	TYR	CD1-CE1	-10.88	1.23	1.39
2	2	50	DG	C5-C6	-10.87	1.31	1.42
3	A	1004	GLN	C-N	-10.87	1.13	1.34
3	A	722	TYR	CB-CG	-10.87	1.35	1.51
3	A	330	GLU	CB-CG	-10.87	1.31	1.52
1	1	100	DA	C6-N6	-10.86	1.25	1.33
1	1	72	DT	C2-N3	-10.86	1.29	1.37
2	2	50	DG	C3'-O3'	-10.85	1.29	1.44
4	B	49	VAL	CB-CG1	-10.85	1.30	1.52
3	A	328	VAL	CB-CG1	-10.84	1.30	1.52
6	E	564	VAL	CB-CG1	-10.83	1.30	1.52
3	A	434	GLU	CG-CD	-10.83	1.35	1.51
4	B	172	TYR	CB-CG	-10.83	1.35	1.51
4	B	172	TYR	CD2-CE2	-10.83	1.23	1.39
2	2	52	DA	C3'-O3'	-10.83	1.29	1.44
2	2	35	DA	C5-C6	-10.82	1.31	1.41
3	A	722	TYR	CG-CD2	-10.82	1.25	1.39
5	C	75	VAL	CB-CG1	-10.81	1.30	1.52
5	D	75	VAL	CB-CG1	-10.81	1.30	1.52
3	A	838	VAL	CB-CG2	-10.81	1.30	1.52
1	1	102	DA	C5-C6	-10.80	1.31	1.41
6	E	147	VAL	CB-CG2	-10.80	1.30	1.52
6	E	615	TYR	CG-CD2	-10.79	1.25	1.39
2	2	59	DG	N7-C5	-10.79	1.32	1.39
1	1	84	DA	C8-N7	-10.79	1.24	1.31
3	A	942	GLU	CD-OE2	-10.78	1.13	1.25
3	A	676	GLU	CG-CD	-10.76	1.35	1.51
6	E	105	TYR	CG-CD2	-10.76	1.25	1.39
3	A	865	ILE	CB-CG2	-10.75	1.19	1.52
1	1	91	DT	N1-C2	-10.74	1.29	1.38
3	A	452	ARG	CG-CD	-10.71	1.25	1.51
6	E	89	CYS	CB-SG	-10.71	1.64	1.82
6	E	276	TYR	CD2-CE2	-10.71	1.23	1.39
6	E	141	TYR	CB-CG	-10.70	1.35	1.51
6	E	143	ASN	CB-CG	-10.70	1.26	1.51
5	C	219	ASP	CB-CG	-10.69	1.29	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	836	VAL	CB-CG1	-10.69	1.30	1.52
4	B	258	ALA	C-N	-10.69	1.14	1.34
6	E	477	VAL	C-N	-10.69	1.14	1.34
6	E	563	ASP	CB-CG	-10.68	1.29	1.51
3	A	495	ILE	C-N	-10.66	1.14	1.34
6	E	615	TYR	CD1-CE1	-10.66	1.23	1.39
2	2	59	DG	C5-C6	-10.65	1.31	1.42
1	1	106	DG	C2-N3	-10.65	1.24	1.32
5	C	198	VAL	CB-CG2	-10.64	1.30	1.52
5	D	198	VAL	CB-CG2	-10.64	1.30	1.52
6	E	314	ILE	CB-CG2	-10.63	1.19	1.52
5	D	219	ASP	CB-CG	-10.63	1.29	1.51
3	A	1032	TYR	CE1-CZ	-10.62	1.24	1.38
2	2	39	DT	C5-C7	-10.62	1.43	1.50
3	A	1040	VAL	CB-CG2	-10.61	1.30	1.52
1	1	92	DT	N3-C4	-10.60	1.30	1.38
1	1	107	DG	C5-C6	-10.60	1.31	1.42
1	1	90	DA	C5-C4	-10.60	1.31	1.38
1	1	86	DG	N1-C2	-10.60	1.29	1.37
3	A	515	GLU	CB-CG	-10.58	1.32	1.52
3	A	671	ASP	CA-CB	-10.58	1.30	1.53
2	2	57	DT	C5-C6	-10.57	1.26	1.34
2	2	61	DT	C1'-N1	-10.57	1.32	1.47
2	2	33	DA	C6-N1	-10.56	1.28	1.35
1	1	107	DG	C6-N1	-10.56	1.32	1.39
6	E	486	GLU	CB-CG	-10.54	1.32	1.52
1	1	98	DG	C1'-N9	-10.53	1.32	1.47
3	A	842	GLN	CB-CG	-10.54	1.24	1.52
1	1	102	DA	N7-C5	-10.53	1.32	1.39
6	E	276	TYR	CE2-CZ	-10.52	1.24	1.38
1	1	103	DA	N7-C5	-10.52	1.32	1.39
3	A	548	ASP	CB-CG	-10.52	1.29	1.51
3	A	960	TYR	CG-CD2	-10.51	1.25	1.39
4	B	260	ARG	CB-CG	-10.49	1.24	1.52
3	A	431	CYS	CB-SG	-10.49	1.64	1.82
4	B	1109	CYS	CB-SG	-10.49	1.64	1.82
3	A	1078	GLN	CB-CG	-10.47	1.24	1.52
4	B	1226	GLU	CB-CG	-10.46	1.32	1.52
6	E	387	PHE	CB-CG	-10.46	1.33	1.51
7	F	34	GLN	CB-CG	-10.46	1.24	1.52
1	1	82	DT	C2-N3	-10.44	1.29	1.37
6	E	422	VAL	CB-CG1	-10.43	1.30	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	590	TYR	CB-CG	-10.43	1.35	1.51
2	2	52	DA	C5-C6	-10.43	1.31	1.41
2	2	36	DT	C3'-O3'	-10.42	1.30	1.44
2	2	38	DT	C4-O4	-10.42	1.13	1.23
2	2	31	DA	N3-C4	-10.42	1.28	1.34
1	1	60	DT	N1-C2	-10.42	1.29	1.38
1	1	93	DT	C2-N3	-10.42	1.29	1.37
2	2	43	DG	C1'-N9	-10.41	1.32	1.47
3	A	149	TYR	CB-CG	-10.41	1.36	1.51
2	2	45	DA	C6-N1	-10.40	1.28	1.35
6	E	284	ASN	CB-CG	-10.40	1.27	1.51
6	E	488	ARG	CG-CD	-10.40	1.25	1.51
3	A	938	GLU	CB-CG	-10.40	1.32	1.52
4	B	43	TYR	CG-CD2	-10.39	1.25	1.39
2	2	35	DA	N7-C5	-10.39	1.33	1.39
6	E	420	GLU	CB-CG	-10.38	1.32	1.52
6	E	255	ASP	CB-CG	-10.38	1.29	1.51
5	C	178	TYR	CE2-CZ	-10.38	1.25	1.38
1	1	84	DA	C1'-N9	-10.37	1.32	1.47
3	A	261	PHE	CB-CG	-10.37	1.33	1.51
4	B	34	ASP	CB-CG	-10.37	1.29	1.51
1	1	97	DT	C5-C7	-10.37	1.43	1.50
1	1	92	DT	C4-C5	-10.36	1.35	1.45
4	B	15	ASN	CB-CG	-10.36	1.27	1.51
6	E	281	ASN	CB-CG	-10.35	1.27	1.51
1	1	72	DT	N1-C6	-10.35	1.31	1.38
5	D	178	TYR	CE2-CZ	-10.35	1.25	1.38
6	E	511	GLN	CB-CG	-10.34	1.24	1.52
3	A	690	TYR	CG-CD1	-10.34	1.25	1.39
3	A	722	TYR	CE1-CZ	-10.33	1.25	1.38
3	A	138	VAL	CB-CG2	-10.32	1.31	1.52
1	1	85	DG	C6-O6	-10.32	1.14	1.24
1	1	115	DA	N3-C4	-10.32	1.28	1.34
3	A	599	VAL	CB-CG2	-10.31	1.31	1.52
2	2	34	DA	N9-C8	-10.31	1.29	1.37
1	1	87	DA	C6-N1	-10.30	1.28	1.35
3	A	598	VAL	CB-CG1	-10.30	1.31	1.52
2	2	34	DA	C6-N1	-10.30	1.28	1.35
1	1	93	DT	N1-C2	-10.30	1.29	1.38
1	1	107	DG	N3-C4	-10.29	1.28	1.35
6	E	105	TYR	CG-CD1	-10.29	1.25	1.39
6	E	285	ARG	CG-CD	-10.29	1.26	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	77	GLU	CB-CG	-10.29	1.32	1.52
6	E	518	TYR	CG-CD1	-10.29	1.25	1.39
2	2	33	DA	C8-N7	-10.29	1.24	1.31
4	B	1147	GLN	CB-CG	-10.28	1.24	1.52
2	2	39	DT	C2-N3	-10.28	1.29	1.37
1	1	85	DG	C2-N3	-10.27	1.24	1.32
6	E	464	PHE	CG-CD2	-10.27	1.23	1.38
3	A	1050	GLU	CB-CG	-10.27	1.32	1.52
4	B	243	VAL	CB-CG1	-10.27	1.31	1.52
6	E	541	VAL	CB-CG2	-10.27	1.31	1.52
4	B	1126	GLN	CB-CG	-10.27	1.24	1.52
4	B	24	TYR	CE1-CZ	-10.26	1.25	1.38
1	1	88	DA	C4'-C3'	-10.26	1.42	1.52
4	B	24	TYR	CD1-CE1	-10.26	1.24	1.39
3	A	391	ASN	CB-CG	-10.26	1.27	1.51
4	B	169	VAL	CB-CG1	-10.25	1.31	1.52
1	1	61	DT	N1-C2	-10.25	1.29	1.38
3	A	377	PHE	CB-CG	-10.25	1.33	1.51
3	A	526	TYR	CB-CG	-10.25	1.36	1.51
6	E	519	TYR	CE2-CZ	-10.25	1.25	1.38
1	1	96	DC	C2-N3	-10.24	1.27	1.35
3	A	815	VAL	CB-CG1	-10.24	1.31	1.52
6	E	276	TYR	CD1-CE1	-10.24	1.24	1.39
1	1	63	DG	C1'-N9	-10.23	1.32	1.47
1	1	96	DC	N1-C2	-10.23	1.29	1.40
1	1	104	DT	C2'-C1'	-10.23	1.42	1.52
3	A	219	PHE	CB-CG	-10.22	1.33	1.51
5	D	77	GLU	CB-CG	-10.22	1.32	1.52
5	D	171	MET	C-N	-10.21	1.14	1.34
6	E	278	ARG	CB-CG	-10.21	1.25	1.52
2	2	58	DA	C5-C4	-10.20	1.31	1.38
5	C	171	MET	C-N	-10.20	1.14	1.34
8	G	287	GLU	CB-CG	-10.20	1.32	1.52
1	1	76	DC	C1'-N1	-10.19	1.32	1.47
2	2	33	DA	C1'-N9	-10.19	1.32	1.47
2	2	49	DT	N3-C4	-10.18	1.30	1.38
3	A	897	GLN	CB-CG	-10.18	1.25	1.52
6	E	233	ASN	CB-CG	-10.18	1.27	1.51
6	E	545	PHE	CD2-CE2	-10.18	1.18	1.39
1	1	93	DT	C3'-O3'	-10.16	1.30	1.44
6	E	464	PHE	CE1-CZ	-10.15	1.18	1.37
2	2	35	DA	C8-N7	-10.13	1.24	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	43	VAL	CB-CG2	-10.13	1.31	1.52
3	A	846	ILE	CB-CG2	-10.13	1.21	1.52
5	C	43	VAL	CB-CG2	-10.13	1.31	1.52
1	1	74	DT	N3-C4	-10.13	1.30	1.38
6	E	464	PHE	CD1-CE1	-10.13	1.19	1.39
1	1	99	DT	C4-O4	-10.13	1.14	1.23
6	E	518	TYR	CE1-CZ	-10.13	1.25	1.38
1	1	106	DG	C3'-O3'	-10.13	1.30	1.44
3	A	561	ARG	CB-CG	-10.12	1.25	1.52
3	A	839	TYR	CD2-CE2	-10.12	1.24	1.39
6	E	519	TYR	CD2-CE2	-10.12	1.24	1.39
3	A	591	VAL	CB-CG1	-10.12	1.31	1.52
3	A	974	ILE	CB-CG2	-10.12	1.21	1.52
5	D	178	TYR	CD1-CE1	-10.12	1.24	1.39
3	A	336	VAL	CB-CG2	-10.11	1.31	1.52
4	B	1129	TYR	CE2-CZ	-10.11	1.25	1.38
3	A	806	VAL	CB-CG1	-10.10	1.31	1.52
4	B	279	GLU	CB-CG	-10.10	1.32	1.52
5	C	178	TYR	CD1-CE1	-10.10	1.24	1.39
4	B	1143	VAL	CB-CG1	-10.10	1.31	1.52
1	1	86	DG	C8-N7	-10.09	1.24	1.30
1	1	88	DA	N9-C8	-10.08	1.29	1.37
6	E	507	ILE	CB-CG2	-10.08	1.21	1.52
1	1	107	DG	N9-C8	-10.08	1.30	1.37
3	A	184	TRP	CB-CG	-10.08	1.32	1.50
3	A	814	VAL	CB-CG1	-10.07	1.31	1.52
2	2	66	DA	N3-C4	-10.07	1.28	1.34
1	1	78	DA	N7-C5	-10.07	1.33	1.39
6	E	464	PHE	CG-CD1	-10.07	1.23	1.38
5	D	176	VAL	CB-CG2	-10.06	1.31	1.52
3	A	714	TYR	CD2-CE2	-10.04	1.24	1.39
2	2	32	DA	C3'-O3'	-10.04	1.30	1.44
3	A	1050	GLU	CG-CD	-10.04	1.36	1.51
6	E	385	GLN	CB-CG	-10.03	1.25	1.52
1	1	73	DA	C6-N1	-10.02	1.28	1.35
5	C	77	GLU	CG-CD	-10.02	1.36	1.51
5	D	77	GLU	CG-CD	-10.02	1.36	1.51
4	B	222	VAL	CB-CG1	-10.02	1.31	1.52
5	C	176	VAL	CB-CG2	-10.02	1.31	1.52
4	B	282	VAL	CB-CG1	-10.01	1.31	1.52
2	2	30	DG	C2-N3	-10.01	1.24	1.32
2	2	35	DA	C3'-O3'	-10.01	1.30	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	213	TRP	CG-CD1	-10.00	1.22	1.36
6	E	345	PHE	CB-CG	-10.00	1.34	1.51
2	2	45	DA	N3-C4	-9.99	1.28	1.34
1	1	78	DA	C5-C6	-9.99	1.32	1.41
6	E	277	ARG	CB-CG	-9.99	1.25	1.52
3	A	998	TYR	CE1-CZ	-9.98	1.25	1.38
2	2	57	DT	N1-C2	-9.98	1.30	1.38
6	E	296	GLU	CB-CG	-9.97	1.33	1.52
3	A	149	TYR	CA-CB	-9.96	1.32	1.53
4	B	282	VAL	CB-CG2	-9.96	1.31	1.52
6	E	615	TYR	CE1-CZ	-9.96	1.25	1.38
3	A	267	TYR	CD2-CE2	-9.95	1.24	1.39
3	A	494	ASP	CA-CB	-9.95	1.32	1.53
3	A	671	ASP	CB-CG	-9.95	1.30	1.51
1	1	63	DG	C5-C6	-9.95	1.32	1.42
2	2	32	DA	N9-C8	-9.95	1.29	1.37
6	E	468	PHE	CG-CD2	-9.95	1.23	1.38
3	A	222	THR	CB-CG2	-9.94	1.19	1.52
2	2	44	DA	N3-C4	-9.93	1.28	1.34
6	E	519	TYR	CD1-CE1	-9.92	1.24	1.39
3	A	134	GLU	CB-CG	-9.91	1.33	1.52
2	2	29	DA	N9-C8	-9.91	1.29	1.37
1	1	77	DA	N3-C4	-9.90	1.28	1.34
2	2	44	DA	N7-C5	-9.90	1.33	1.39
1	1	78	DA	C5-C4	-9.89	1.31	1.38
1	1	63	DG	C6-N1	-9.89	1.32	1.39
2	2	47	DT	N1-C2	-9.89	1.30	1.38
3	A	735	GLU	CB-CG	-9.89	1.33	1.52
2	2	38	DT	C4-C5	-9.88	1.36	1.45
6	E	145	TYR	CD1-CE1	-9.88	1.24	1.39
1	1	82	DT	N1-C6	-9.88	1.31	1.38
4	B	1129	TYR	CD2-CE2	-9.88	1.24	1.39
6	E	230	VAL	CB-CG1	-9.87	1.32	1.52
6	E	546	GLN	CB-CG	-9.87	1.25	1.52
1	1	77	DA	C2-N3	-9.86	1.24	1.33
2	2	46	DT	C2-N3	-9.86	1.29	1.37
3	A	600	TYR	CE2-CZ	-9.86	1.25	1.38
3	A	1070	PHE	CG-CD2	-9.86	1.24	1.38
3	A	115	PHE	CD2-CE2	-9.85	1.19	1.39
4	B	1129	TYR	CD1-CE1	-9.85	1.24	1.39
4	B	24	TYR	CE2-CZ	-9.84	1.25	1.38
2	2	31	DA	N9-C8	-9.83	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	107	DG	C5-C4	-9.83	1.31	1.38
1	1	86	DG	N9-C8	-9.82	1.30	1.37
3	A	690	TYR	CD1-CE1	-9.82	1.24	1.39
1	1	74	DT	N1-C6	-9.82	1.31	1.38
1	1	100	DA	P-O5'	-9.82	1.50	1.59
3	A	325	VAL	CB-CG2	-9.82	1.32	1.52
3	A	763	VAL	CB-CG1	-9.81	1.32	1.52
1	1	63	DG	C8-N7	-9.81	1.25	1.30
4	B	1120	PHE	CB-CG	-9.81	1.34	1.51
8	G	196	GLU	CG-CD	-9.80	1.37	1.51
3	A	134	GLU	CG-CD	-9.80	1.37	1.51
5	C	178	TYR	CG-CD1	-9.79	1.26	1.39
6	E	464	PHE	CD2-CE2	-9.79	1.19	1.39
3	A	722	TYR	CD1-CE1	-9.78	1.24	1.39
6	E	421	GLU	CB-CG	-9.77	1.33	1.52
5	C	173	VAL	CB-CG2	-9.77	1.32	1.52
5	D	178	TYR	CG-CD1	-9.77	1.26	1.39
3	A	159	ARG	CA-CB	-9.76	1.32	1.53
1	1	74	DT	C5-C7	-9.76	1.44	1.50
1	1	90	DA	N9-C8	-9.76	1.29	1.37
3	A	526	TYR	CD2-CE2	-9.75	1.24	1.39
3	A	597	ASP	CB-CG	-9.75	1.31	1.51
3	A	571	ARG	CB-CG	-9.74	1.26	1.52
3	A	386	PHE	CB-CG	-9.73	1.34	1.51
5	D	173	VAL	CB-CG2	-9.73	1.32	1.52
2	2	44	DA	C5-C6	-9.72	1.32	1.41
1	1	103	DA	C5-C4	-9.72	1.31	1.38
3	A	41	PHE	CD2-CE2	-9.72	1.19	1.39
4	B	3	PHE	CD2-CE2	-9.71	1.19	1.39
1	1	63	DG	C2-N2	-9.71	1.24	1.34
1	1	58	DA	C5-C6	-9.71	1.32	1.41
6	E	593	VAL	CB-CG1	-9.71	1.32	1.52
3	A	1032	TYR	CG-CD2	-9.69	1.26	1.39
2	2	31	DA	C6-N1	-9.69	1.28	1.35
6	E	105	TYR	CE1-CZ	-9.69	1.25	1.38
1	1	78	DA	N9-C8	-9.67	1.30	1.37
1	1	107	DG	C8-N7	-9.67	1.25	1.30
4	B	24	TYR	CD2-CE2	-9.67	1.24	1.39
1	1	102	DA	C1'-N9	-9.66	1.33	1.47
6	E	359	ARG	CB-CG	-9.66	1.26	1.52
2	2	61	DT	N1-C6	-9.66	1.31	1.38
2	2	37	DT	C3'-O3'	-9.66	1.31	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	41	PHE	CB-CG	-9.65	1.34	1.51
3	A	722	TYR	CE2-CZ	-9.65	1.26	1.38
4	B	195	TYR	CD2-CE2	-9.63	1.24	1.39
3	A	960	TYR	CG-CD1	-9.63	1.26	1.39
8	G	88	GLU	CG-CD	-9.63	1.37	1.51
2	2	39	DT	P-O5'	-9.62	1.50	1.59
6	E	422	VAL	CB-CG2	-9.62	1.32	1.52
2	2	34	DA	N1-C2	-9.62	1.25	1.34
5	D	38	ASN	CB-CG	-9.62	1.28	1.51
5	C	178	TYR	CD2-CE2	-9.62	1.25	1.39
5	D	178	TYR	CD2-CE2	-9.61	1.25	1.39
6	E	146	VAL	CB-CG2	-9.61	1.32	1.52
6	E	588	TYR	CD1-CE1	-9.61	1.25	1.39
3	A	964	THR	CA-CB	-9.60	1.28	1.53
5	C	38	ASN	CB-CG	-9.60	1.28	1.51
6	E	260	VAL	CB-CG1	-9.60	1.32	1.52
3	A	595	ASP	CB-CG	-9.60	1.31	1.51
3	A	942	GLU	CG-CD	-9.60	1.37	1.51
3	A	589	VAL	CB-CG1	-9.59	1.32	1.52
4	B	1053	GLU	CD-OE1	-9.58	1.15	1.25
4	B	1122	VAL	CB-CG1	-9.58	1.32	1.52
1	1	74	DT	C3'-O3'	-9.58	1.31	1.44
6	E	496	ASN	CB-CG	-9.58	1.29	1.51
1	1	105	DG	N9-C4	-9.57	1.30	1.38
6	E	450	GLU	CB-CG	-9.56	1.33	1.52
2	2	46	DT	C4-C5	-9.56	1.36	1.45
3	A	704	ILE	CB-CG2	-9.56	1.23	1.52
3	A	942	GLU	CB-CG	-9.56	1.33	1.52
1	1	79	DA	C6-N1	-9.55	1.28	1.35
1	1	102	DA	N3-C4	-9.55	1.29	1.34
6	E	141	TYR	CE1-CZ	-9.54	1.26	1.38
4	B	19	TRP	CG-CD1	-9.54	1.23	1.36
1	1	105	DG	C5-C4	-9.53	1.31	1.38
2	2	3	DT	C1'-N1	-9.53	1.33	1.47
4	B	1117	VAL	CB-CG1	-9.53	1.32	1.52
1	1	85	DG	N3-C4	-9.52	1.28	1.35
4	B	195	TYR	CD1-CE1	-9.52	1.25	1.39
2	2	59	DG	C3'-O3'	-9.51	1.31	1.44
1	1	75	DA	C8-N7	-9.50	1.24	1.31
2	2	58	DA	C3'-O3'	-9.50	1.31	1.44
3	A	388	ASP	CB-CG	-9.49	1.31	1.51
1	1	99	DT	N1-C6	-9.49	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	280	VAL	CB-CG2	-9.49	1.32	1.52
3	A	399	LYS	CB-CG	-9.48	1.26	1.52
6	E	468	PHE	CE1-CZ	-9.47	1.19	1.37
2	2	31	DA	P-O5'	-9.47	1.50	1.59
6	E	488	ARG	CB-CG	-9.47	1.26	1.52
3	A	996	GLY	C-N	-9.47	1.16	1.34
2	2	42	DT	C1'-N1	-9.46	1.34	1.47
4	B	1238	ASN	CB-CG	-9.45	1.29	1.51
1	1	93	DT	C2-O2	-9.45	1.14	1.22
3	A	1036	GLU	CD-OE2	-9.45	1.15	1.25
1	1	82	DT	N3-C4	-9.44	1.31	1.38
3	A	224	GLU	CB-CG	-9.44	1.34	1.52
1	1	89	DA	C6-N1	-9.44	1.28	1.35
5	C	143	GLU	CB-CG	-9.44	1.34	1.52
6	E	497	ILE	CB-CG2	-9.44	1.23	1.52
5	D	143	GLU	CB-CG	-9.43	1.34	1.52
6	E	285	ARG	CB-CG	-9.43	1.27	1.52
5	D	178	TYR	CB-CG	-9.43	1.37	1.51
2	2	40	DC	N1-C2	-9.43	1.30	1.40
3	A	839	TYR	CG-CD1	-9.43	1.26	1.39
1	1	82	DT	C5-C6	-9.43	1.27	1.34
4	B	28	ARG	CB-CG	-9.41	1.27	1.52
5	C	178	TYR	CB-CG	-9.41	1.37	1.51
1	1	101	DT	C2-N3	-9.41	1.30	1.37
2	2	3	DT	N1-C2	-9.41	1.30	1.38
4	B	24	TYR	CG-CD1	-9.41	1.26	1.39
3	A	453	VAL	CB-CG2	-9.41	1.33	1.52
3	A	639	VAL	CB-CG1	-9.40	1.33	1.52
1	1	93	DT	C5-C6	-9.40	1.27	1.34
1	1	89	DA	N9-C8	-9.40	1.30	1.37
3	A	998	TYR	CE2-CZ	-9.40	1.26	1.38
3	A	639	VAL	CB-CG2	-9.40	1.33	1.52
2	2	45	DA	N7-C5	-9.39	1.33	1.39
4	B	1128	VAL	CB-CG1	-9.38	1.33	1.52
3	A	454	ASN	CB-CG	-9.38	1.29	1.51
3	A	600	TYR	CD1-CE1	-9.38	1.25	1.39
3	A	579	GLU	CG-CD	-9.37	1.37	1.51
5	D	178	TYR	CG-CD2	-9.36	1.26	1.39
4	B	481	TRP	CE2-CZ2	-9.35	1.23	1.39
1	1	121	DG	N9-C4	-9.34	1.30	1.38
5	C	178	TYR	CG-CD2	-9.34	1.27	1.39
1	1	95	DT	N3-C4	-9.32	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1035	GLN	CB-CG	-9.32	1.27	1.52
3	A	490	VAL	CB-CG2	-9.31	1.33	1.52
1	1	76	DC	N3-C4	-9.31	1.27	1.33
1	1	87	DA	C2-N3	-9.31	1.25	1.33
3	A	978	TYR	CG-CD2	-9.31	1.27	1.39
2	2	48	DT	C1'-N1	-9.31	1.34	1.47
2	2	52	DA	C1'-N9	-9.31	1.34	1.47
6	E	86	CYS	CB-SG	-9.31	1.66	1.82
3	A	844	ARG	CG-CD	-9.30	1.28	1.51
4	B	795	LEU	CG-CD1	-9.30	1.17	1.51
6	E	511	GLN	CG-CD	-9.30	1.29	1.51
4	B	244	VAL	CB-CG1	-9.30	1.33	1.52
2	2	52	DA	C4'-C3'	-9.29	1.43	1.52
3	A	96	TYR	CE1-CZ	-9.29	1.26	1.38
1	1	90	DA	C6-N6	-9.29	1.26	1.33
3	A	679	GLU	CB-CG	-9.28	1.34	1.52
1	1	81	DT	C1'-N1	-9.28	1.34	1.47
2	2	49	DT	N1-C6	-9.28	1.31	1.38
3	A	835	VAL	CB-CG2	-9.28	1.33	1.52
2	2	39	DT	N3-C4	-9.27	1.31	1.38
6	E	519	TYR	CG-CD1	-9.27	1.27	1.39
1	1	108	DA	N9-C4	-9.26	1.32	1.37
2	2	31	DA	C3'-O3'	-9.26	1.31	1.44
3	A	325	VAL	CB-CG1	-9.26	1.33	1.52
3	A	589	VAL	CB-CG2	-9.26	1.33	1.52
6	E	117	TYR	CG-CD1	-9.26	1.27	1.39
6	E	424	GLU	CB-CG	-9.26	1.34	1.52
3	A	600	TYR	CG-CD2	-9.24	1.27	1.39
3	A	837	ARG	CB-CG	-9.24	1.27	1.52
4	B	3	PHE	CD1-CE1	-9.24	1.20	1.39
4	B	705	ASN	CA-C	-9.24	1.28	1.52
2	2	50	DG	C6-N1	-9.23	1.33	1.39
1	1	58	DA	N3-C4	-9.23	1.29	1.34
2	2	29	DA	C6-N6	-9.23	1.26	1.33
3	A	520	THR	C-N	-9.22	1.16	1.34
6	E	468	PHE	CB-CG	-9.21	1.35	1.51
3	A	882	ILE	CB-CG2	-9.20	1.24	1.52
1	1	83	DC	C2-N3	-9.20	1.28	1.35
3	A	512	TYR	CD1-CE1	-9.19	1.25	1.39
6	E	212	GLU	CB-CG	-9.19	1.34	1.52
1	1	92	DT	C3'-O3'	-9.19	1.32	1.44
3	A	899	PHE	CG-CD1	-9.19	1.25	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	281	VAL	CB-CG1	-9.18	1.33	1.52
3	A	525	ASP	CB-CG	-9.18	1.32	1.51
4	B	481	TRP	CE3-CZ3	-9.18	1.22	1.38
5	D	103	GLY	C-N	-9.18	1.16	1.34
8	G	102	GLU	CG-CD	9.18	1.65	1.51
1	1	92	DT	N1-C6	-9.17	1.31	1.38
1	1	90	DA	C1'-N9	-9.17	1.34	1.47
2	2	39	DT	C4-C5	-9.16	1.36	1.45
8	G	185	GLN	CB-CG	-9.16	1.27	1.52
6	E	140	VAL	CB-CG2	-9.16	1.33	1.52
1	1	97	DT	C4-C5	-9.16	1.36	1.45
6	E	362	ILE	CB-CG2	-9.15	1.24	1.52
1	1	94	DT	N3-C4	-9.15	1.31	1.38
6	E	106	ILE	CB-CG2	-9.15	1.24	1.52
4	B	19	TRP	CD2-CE2	-9.14	1.30	1.41
5	C	103	GLY	C-N	-9.14	1.16	1.34
4	B	1239	VAL	CB-CG2	-9.14	1.33	1.52
1	1	94	DT	C2-O2	-9.13	1.15	1.22
3	A	378	PHE	CG-CD1	-9.13	1.25	1.38
2	2	45	DA	C8-N7	-9.13	1.25	1.31
1	1	77	DA	C2'-C1'	-9.13	1.43	1.52
4	B	41	PHE	CE2-CZ	-9.12	1.20	1.37
4	B	1125	VAL	CB-CG1	-9.12	1.33	1.52
6	E	540	ASP	CB-CG	-9.12	1.32	1.51
4	B	41	PHE	CG-CD1	-9.12	1.25	1.38
1	1	91	DT	C4-C5	-9.11	1.36	1.45
1	1	63	DG	C5-C4	-9.10	1.31	1.38
2	2	46	DT	N1-C2	-9.10	1.30	1.38
6	E	499	SER	CA-CB	-9.09	1.39	1.52
2	2	53	DT	C4-O4	-9.08	1.15	1.23
3	A	41	PHE	CB-CG	-9.08	1.35	1.51
1	1	77	DA	N1-C2	-9.08	1.26	1.34
5	D	71	VAL	CB-CG1	-9.08	1.33	1.52
1	1	111	DT	N1-C6	-9.07	1.31	1.38
6	E	454	ILE	CB-CG2	-9.07	1.24	1.52
3	A	97	VAL	CB-CG2	-9.07	1.33	1.52
3	A	224	GLU	CG-CD	-9.07	1.38	1.51
5	C	71	VAL	CB-CG1	-9.07	1.33	1.52
3	A	905	TRP	CG-CD2	-9.06	1.28	1.43
3	A	529	VAL	CB-CG1	-9.06	1.33	1.52
3	A	564	VAL	CB-CG1	-9.05	1.33	1.52
1	1	76	DC	C2-N3	-9.04	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	815	VAL	CB-CG2	-9.04	1.33	1.52
6	E	253	PRO	N-CA	-9.04	1.31	1.47
6	E	452	ARG	CB-CG	-9.04	1.28	1.52
4	B	671	VAL	CB-CG1	-9.04	1.33	1.52
4	B	1129	TYR	CE1-CZ	-9.04	1.26	1.38
6	E	519	TYR	CG-CD2	-9.03	1.27	1.39
1	1	76	DC	N1-C6	-9.03	1.31	1.37
5	D	141	ARG	CG-CD	-9.03	1.29	1.51
2	2	61	DT	C5-C6	-9.02	1.28	1.34
5	C	141	ARG	CG-CD	-9.01	1.29	1.51
1	1	100	DA	O4'-C1'	-9.01	1.31	1.42
1	1	81	DT	C5-C6	-9.01	1.28	1.34
1	1	93	DT	N1-C6	-9.01	1.31	1.38
2	2	35	DA	C6-N1	-8.99	1.29	1.35
1	1	98	DG	C6-O6	-8.98	1.16	1.24
6	E	299	VAL	CB-CG2	-8.98	1.33	1.52
2	2	29	DA	C8-N7	-8.98	1.25	1.31
1	1	81	DT	C4-C5	-8.97	1.36	1.45
6	E	319	ARG	CG-CD	-8.97	1.29	1.51
1	1	106	DG	N9-C8	-8.96	1.31	1.37
3	A	142	VAL	CB-CG1	-8.96	1.34	1.52
2	2	38	DT	N1-C6	-8.95	1.31	1.38
2	2	57	DT	C2-N3	-8.95	1.30	1.37
6	E	305	MET	CB-CG	-8.95	1.22	1.51
6	E	141	TYR	CG-CD2	-8.95	1.27	1.39
4	B	172	TYR	CE1-CZ	-8.95	1.26	1.38
2	2	52	DA	N7-C5	-8.94	1.33	1.39
6	E	620	GLN	CB-CG	-8.94	1.28	1.52
1	1	84	DA	N3-C4	-8.93	1.29	1.34
3	A	941	ASP	CB-CG	-8.93	1.32	1.51
4	B	28	ARG	CG-CD	-8.91	1.29	1.51
2	2	11	DT	N1-C2	-8.91	1.30	1.38
6	E	146	VAL	CB-CG1	-8.91	1.34	1.52
6	E	464	PHE	CE2-CZ	-8.91	1.20	1.37
4	B	198	ARG	CB-CG	-8.91	1.28	1.52
3	A	128	PHE	CD2-CE2	-8.90	1.21	1.39
8	G	186	GLU	CB-CG	-8.90	1.35	1.52
3	A	96	TYR	CB-CG	-8.88	1.38	1.51
4	B	631	TRP	CE2-CZ2	-8.88	1.24	1.39
2	2	61	DT	C2-N3	-8.87	1.30	1.37
3	A	998	TYR	CG-CD1	-8.87	1.27	1.39
6	E	385	GLN	CG-CD	-8.87	1.30	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	44	DA	C6-N1	-8.87	1.29	1.35
3	A	41	PHE	CG-CD1	-8.86	1.25	1.38
6	E	353	ARG	CB-CG	-8.86	1.28	1.52
3	A	526	TYR	CA-CB	-8.86	1.34	1.53
1	1	78	DA	N3-C4	-8.85	1.29	1.34
6	E	260	VAL	CB-CG2	-8.85	1.34	1.52
4	B	3	PHE	CB-CG	-8.84	1.36	1.51
5	C	199	TRP	CE3-CZ3	-8.84	1.23	1.38
3	A	115	PHE	CD1-CE1	-8.84	1.21	1.39
1	1	80	DA	N7-C5	-8.83	1.33	1.39
3	A	642	TYR	CE1-CZ	-8.83	1.27	1.38
6	E	588	TYR	CD2-CE2	-8.83	1.26	1.39
6	E	117	TYR	CG-CD2	-8.82	1.27	1.39
1	1	81	DT	C2-N3	-8.82	1.30	1.37
5	D	199	TRP	CE3-CZ3	-8.82	1.23	1.38
3	A	983	VAL	CB-CG2	-8.81	1.34	1.52
5	C	221	PHE	CB-CG	-8.81	1.36	1.51
3	A	1001	VAL	CB-CG1	-8.80	1.34	1.52
6	E	468	PHE	CE2-CZ	-8.79	1.20	1.37
1	1	73	DA	N1-C2	-8.79	1.26	1.34
6	E	565	GLU	CB-CG	-8.79	1.35	1.52
1	1	106	DG	N1-C2	-8.79	1.30	1.37
2	2	34	DA	N7-C5	-8.78	1.33	1.39
3	A	456	TYR	CD1-CE1	-8.78	1.26	1.39
6	E	252	ILE	CB-CG2	-8.77	1.25	1.52
3	A	139	ASN	CB-CG	-8.77	1.30	1.51
6	E	472	GLN	CB-CG	-8.77	1.28	1.52
1	1	75	DA	N7-C5	-8.76	1.33	1.39
2	2	57	DT	N1-C6	-8.76	1.32	1.38
4	B	1118	GLN	CB-CG	-8.76	1.28	1.52
5	D	53	VAL	CB-CG1	-8.76	1.34	1.52
6	E	449	VAL	CB-CG1	-8.76	1.34	1.52
1	1	79	DA	C3'-O3'	-8.76	1.32	1.44
3	A	600	TYR	CE1-CZ	-8.76	1.27	1.38
1	1	120	DT	C1'-N1	-8.75	1.34	1.47
2	2	49	DT	C4-C5	-8.75	1.37	1.45
4	B	261	ASN	CB-CG	-8.75	1.30	1.51
3	A	714	TYR	CG-CD2	-8.75	1.27	1.39
5	C	139	GLU	CB-CG	-8.75	1.35	1.52
3	A	527	VAL	CB-CG2	-8.75	1.34	1.52
3	A	142	VAL	CB-CG2	-8.74	1.34	1.52
1	1	84	DA	N9-C8	-8.74	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	716	SER	CA-CB	-8.74	1.39	1.52
1	1	60	DT	C4-C5	-8.73	1.37	1.45
4	B	3	PHE	CG-CD1	-8.73	1.25	1.38
6	E	141	TYR	CG-CD1	-8.73	1.27	1.39
1	1	91	DT	C5-C7	-8.72	1.44	1.50
5	D	139	GLU	CB-CG	-8.72	1.35	1.52
6	E	545	PHE	CD1-CE1	-8.71	1.21	1.39
2	2	67	DA	C2-N3	-8.71	1.25	1.33
3	A	31	ILE	CB-CG2	-8.71	1.25	1.52
4	B	211	GLU	CB-CG	-8.71	1.35	1.52
5	D	181	GLU	CB-CG	-8.71	1.35	1.52
5	C	53	VAL	CB-CG1	-8.70	1.34	1.52
1	1	94	DT	C4-O4	-8.70	1.15	1.23
3	A	686	ILE	CB-CG2	-8.70	1.25	1.52
2	2	9	DC	N1-C6	-8.70	1.31	1.37
5	C	180	VAL	CB-CG1	-8.70	1.34	1.52
4	B	653	TYR	CZ-OH	-8.68	1.23	1.37
2	2	40	DC	C2-N3	-8.68	1.28	1.35
6	E	142	PHE	CD1-CE1	-8.68	1.21	1.39
2	2	37	DT	N1-C6	-8.67	1.32	1.38
6	E	300	ARG	CB-CG	-8.67	1.29	1.52
4	B	21	PHE	CG-CD1	-8.67	1.25	1.38
6	E	249	ILE	CB-CG2	-8.66	1.25	1.52
1	1	87	DA	C2'-C1'	-8.66	1.43	1.52
2	2	40	DC	N1-C6	-8.66	1.31	1.37
4	B	665	PHE	CB-CG	-8.65	1.36	1.51
3	A	401	ARG	CB-CG	-8.65	1.29	1.52
1	1	87	DA	N7-C5	-8.65	1.34	1.39
5	D	180	VAL	CB-CG1	-8.65	1.34	1.52
3	A	717	ILE	CB-CG2	-8.64	1.26	1.52
5	C	81	ARG	CG-CD	-8.64	1.30	1.51
5	D	81	ARG	CG-CD	-8.64	1.30	1.51
1	1	75	DA	N1-C2	-8.64	1.26	1.34
4	B	1141	ILE	CB-CG2	-8.64	1.26	1.52
3	A	668	VAL	CB-CG2	-8.63	1.34	1.52
1	1	122	DC	C3'-O3'	-8.62	1.32	1.44
2	2	34	DA	C8-N7	-8.62	1.25	1.31
3	A	738	ARG	CA-C	-8.60	1.30	1.52
6	E	141	TYR	CD1-CE1	-8.60	1.26	1.39
6	E	588	TYR	CE1-CZ	-8.60	1.27	1.38
6	E	276	TYR	CB-CG	-8.59	1.38	1.51
3	A	663	VAL	CB-CG1	-8.59	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	1225	ILE	CB-CG2	-8.59	1.26	1.52
3	A	41	PHE	CD1-CE1	-8.58	1.22	1.39
3	A	135	ARG	CB-CG	-8.58	1.29	1.52
2	2	51	DT	C4-O4	-8.57	1.15	1.23
4	B	322	SER	CA-CB	-8.57	1.40	1.52
1	1	91	DT	N3-C4	-8.57	1.31	1.38
3	A	663	VAL	CB-CG2	-8.57	1.34	1.52
1	1	102	DA	N9-C8	-8.56	1.30	1.37
4	B	1228	LYS	CB-CG	-8.56	1.29	1.52
3	A	703	LEU	CG-CD2	-8.56	1.20	1.51
1	1	117	DG	C5-C4	-8.55	1.32	1.38
7	F	37	ASN	CB-CG	-8.55	1.31	1.51
4	B	209	ILE	CB-CG2	-8.55	1.26	1.52
3	A	401	ARG	CG-CD	-8.55	1.30	1.51
2	2	30	DG	C3'-O3'	-8.54	1.32	1.44
8	G	313	VAL	CB-CG2	-8.54	1.34	1.52
6	E	245	VAL	CB-CG1	-8.54	1.34	1.52
6	E	519	TYR	CB-CG	-8.53	1.38	1.51
4	B	606	PHE	CG-CD1	-8.53	1.25	1.38
6	E	63	PHE	CE2-CZ	-8.53	1.21	1.37
4	B	21	PHE	CE2-CZ	-8.53	1.21	1.37
6	E	452	ARG	CG-CD	-8.53	1.30	1.51
3	A	957	ILE	CB-CG2	-8.52	1.26	1.52
3	A	344	GLU	CB-CG	-8.52	1.35	1.52
6	E	277	ARG	CG-CD	-8.52	1.30	1.51
3	A	400	ARG	CB-CG	-8.52	1.29	1.52
2	2	9	DC	C1'-N1	-8.51	1.35	1.47
1	1	81	DT	N1-C6	-8.50	1.32	1.38
6	E	116	TRP	CE3-CZ3	-8.50	1.24	1.38
1	1	95	DT	C4-O4	-8.49	1.15	1.23
4	B	210	ARG	CB-CG	-8.49	1.29	1.52
1	1	96	DC	C5-C6	-8.49	1.27	1.34
3	A	376	GLU	CG-CD	-8.48	1.39	1.51
3	A	524	VAL	CB-CG1	-8.48	1.35	1.52
6	E	141	TYR	CD2-CE2	-8.48	1.26	1.39
4	B	631	TRP	CD2-CE3	-8.48	1.27	1.40
3	A	452	ARG	CB-CG	-8.48	1.29	1.52
5	C	140	PHE	CG-CD2	-8.47	1.26	1.38
1	1	86	DG	C6-N1	-8.47	1.33	1.39
5	C	141	ARG	CB-CG	-8.47	1.29	1.52
6	E	384	PHE	CB-CG	-8.47	1.36	1.51
5	D	20	TYR	CD2-CE2	-8.46	1.26	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	140	PHE	CG-CD2	-8.46	1.26	1.38
2	2	37	DT	C2'-C1'	-8.46	1.43	1.52
3	A	400	ARG	CG-CD	-8.46	1.30	1.51
4	B	1129	TYR	CB-CG	-8.46	1.39	1.51
3	A	41	PHE	CE2-CZ	-8.45	1.21	1.37
1	1	76	DC	C5-C6	-8.45	1.27	1.34
1	1	109	DG	C6-N1	-8.45	1.33	1.39
3	A	805	ARG	CB-CG	-8.45	1.29	1.52
2	2	33	DA	C3'-O3'	-8.45	1.32	1.44
5	D	41	ARG	CB-CG	-8.44	1.29	1.52
5	D	141	ARG	CB-CG	-8.43	1.29	1.52
6	E	307	GLN	CG-CD	-8.43	1.31	1.51
6	E	590	TYR	CD2-CE2	-8.43	1.26	1.39
3	A	143	ARG	C-N	-8.43	1.14	1.34
6	E	502	THR	CB-CG2	-8.43	1.24	1.52
5	C	41	ARG	CB-CG	-8.42	1.29	1.52
1	1	87	DA	N9-C8	-8.42	1.31	1.37
6	E	278	ARG	CG-CD	-8.42	1.30	1.51
6	E	316	ASN	CB-CG	-8.42	1.31	1.51
6	E	545	PHE	CG-CD1	-8.41	1.26	1.38
1	1	61	DT	C1'-N1	-8.40	1.35	1.47
1	1	121	DG	N3-C4	-8.40	1.29	1.35
1	1	73	DA	C1'-N9	-8.40	1.35	1.47
6	E	116	TRP	CG-CD1	-8.40	1.25	1.36
3	A	390	THR	CB-CG2	-8.39	1.24	1.52
4	B	1125	VAL	CB-CG2	-8.39	1.35	1.52
4	B	279	GLU	CG-CD	-8.39	1.39	1.51
6	E	142	PHE	CG-CD2	-8.39	1.26	1.38
2	2	36	DT	C4-O4	-8.38	1.15	1.23
3	A	998	TYR	CG-CD2	-8.38	1.28	1.39
1	1	79	DA	C1'-N9	-8.38	1.35	1.47
3	A	847	GLN	CB-CG	-8.38	1.29	1.52
6	E	145	TYR	CD2-CE2	-8.37	1.26	1.39
1	1	93	DT	N3-C4	-8.37	1.31	1.38
2	2	68	DT	N3-C4	-8.37	1.31	1.38
1	1	62	DT	C4-C5	-8.37	1.37	1.45
4	B	21	PHE	CD2-CE2	-8.36	1.22	1.39
1	1	75	DA	C6-N1	-8.36	1.29	1.35
3	A	806	VAL	C-N	-8.36	1.18	1.34
3	A	1078	GLN	CG-CD	-8.36	1.31	1.51
4	B	19	TRP	CE3-CZ3	-8.35	1.24	1.38
1	1	99	DT	C3'-O3'	-8.35	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	38	DT	C2'-C1'	-8.35	1.44	1.52
2	2	44	DA	C5-C4	-8.34	1.32	1.38
4	B	1254	TYR	CD2-CE2	-8.34	1.26	1.39
2	2	13	DA	N9-C4	-8.34	1.32	1.37
7	F	29	TYR	CZ-OH	-8.34	1.23	1.37
6	E	61	ARG	CG-CD	-8.33	1.31	1.51
3	A	1041	LYS	CB-CG	-8.33	1.30	1.52
1	1	87	DA	C8-N7	-8.32	1.25	1.31
2	2	59	DG	C1'-N9	-8.31	1.35	1.47
6	E	145	TYR	CB-CG	-8.31	1.39	1.51
3	A	456	TYR	CB-CG	-8.30	1.39	1.51
3	A	839	TYR	CE2-CZ	-8.29	1.27	1.38
3	A	453	VAL	CB-CG1	-8.29	1.35	1.52
3	A	32	GLU	CB-CG	-8.29	1.36	1.52
4	B	1147	GLN	CG-CD	-8.29	1.31	1.51
5	D	20	TYR	CG-CD2	-8.29	1.28	1.39
1	1	89	DA	C6-N6	-8.28	1.27	1.33
6	E	387	PHE	CD2-CE2	-8.28	1.22	1.39
1	1	78	DA	C1'-N9	-8.28	1.35	1.47
3	A	38	PHE	CD1-CE1	-8.28	1.22	1.39
3	A	41	PHE	CG-CD2	-8.28	1.26	1.38
6	E	538	LEU	CA-C	-8.28	1.31	1.52
5	C	218	VAL	CB-CG1	-8.27	1.35	1.52
1	1	103	DA	N3-C4	-8.27	1.29	1.34
3	A	715	THR	CB-CG2	-8.26	1.25	1.52
5	D	218	VAL	CB-CG1	-8.26	1.35	1.52
1	1	73	DA	C5-C6	-8.26	1.33	1.41
3	A	128	PHE	CG-CD2	-8.25	1.26	1.38
3	A	497	VAL	CB-CG1	-8.25	1.35	1.52
6	E	229	ARG	CG-CD	-8.25	1.31	1.51
4	B	1115	GLN	CB-CG	-8.25	1.30	1.52
6	E	590	TYR	CE2-CZ	-8.24	1.27	1.38
1	1	62	DT	C5-C7	-8.24	1.45	1.50
3	A	166	ILE	C-N	-8.23	1.18	1.34
6	E	142	PHE	CG-CD1	-8.23	1.26	1.38
2	2	68	DT	C5-C6	-8.23	1.28	1.34
1	1	80	DA	C6-N1	-8.23	1.29	1.35
3	A	735	GLU	CG-CD	-8.23	1.39	1.51
6	E	387	PHE	CD1-CE1	-8.23	1.22	1.39
2	2	51	DT	C3'-O3'	-8.22	1.33	1.44
3	A	998	TYR	CD2-CE2	-8.22	1.27	1.39
3	A	427	TYR	CB-CG	-8.21	1.39	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	763	VAL	CB-CG2	-8.21	1.35	1.52
6	E	495	ASN	CB-CG	-8.21	1.32	1.51
1	1	79	DA	P-O5'	-8.21	1.51	1.59
1	1	77	DA	N7-C5	-8.21	1.34	1.39
2	2	9	DC	C5-C6	-8.20	1.27	1.34
3	A	512	TYR	CB-CG	-8.20	1.39	1.51
3	A	899	PHE	CD2-CE2	-8.20	1.22	1.39
2	2	38	DT	C5-C6	-8.20	1.28	1.34
5	D	170	PHE	CB-CG	-8.20	1.37	1.51
6	E	116	TRP	CD2-CE2	-8.19	1.31	1.41
2	2	52	DA	N9-C8	-8.19	1.31	1.37
1	1	89	DA	C8-N7	-8.18	1.25	1.31
3	A	973	THR	CB-CG2	-8.18	1.25	1.52
6	E	60	GLU	CG-CD	-8.18	1.39	1.51
1	1	79	DA	N3-C4	-8.18	1.29	1.34
6	E	63	PHE	CD1-CE1	-8.18	1.22	1.39
5	C	170	PHE	CB-CG	-8.17	1.37	1.51
1	1	113	DT	N1-C2	-8.17	1.31	1.38
3	A	261	PHE	CD1-CE1	-8.17	1.23	1.39
3	A	714	TYR	CB-CG	-8.16	1.39	1.51
2	2	41	DC	N1-C6	-8.16	1.32	1.37
1	1	89	DA	C1'-N9	-8.15	1.35	1.47
4	B	1011	LEU	C-N	-8.15	1.18	1.34
3	A	690	TYR	CD2-CE2	-8.15	1.27	1.39
5	D	127	VAL	CB-CG2	-8.14	1.35	1.52
1	1	94	DT	C4-C5	-8.13	1.37	1.45
3	A	267	TYR	CE1-CZ	-8.13	1.27	1.38
4	B	782	VAL	CB-CG2	-8.13	1.35	1.52
4	B	19	TRP	CE2-CZ2	-8.12	1.25	1.39
3	A	561	ARG	CG-CD	-8.12	1.31	1.51
2	2	48	DT	C2-N3	-8.11	1.31	1.37
4	B	201	VAL	CB-CG2	-8.11	1.35	1.52
1	1	63	DG	N9-C4	-8.10	1.31	1.38
2	2	30	DG	C1'-N9	-8.10	1.35	1.47
3	A	899	PHE	CE2-CZ	-8.09	1.22	1.37
1	1	104	DT	C4-C5	-8.08	1.37	1.45
2	2	51	DT	N1-C2	-8.08	1.31	1.38
2	2	58	DA	C8-N7	-8.08	1.25	1.31
1	1	62	DT	C3'-C2'	-8.08	1.42	1.52
3	A	637	TYR	CE2-CZ	-8.07	1.28	1.38
6	E	468	PHE	CG-CD1	-8.07	1.26	1.38
6	E	234	PHE	CD1-CE1	-8.07	1.23	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	78	DA	C6-N1	-8.06	1.29	1.35
6	E	590	TYR	CG-CD1	-8.06	1.28	1.39
2	2	47	DT	C2-N3	-8.06	1.31	1.37
3	A	128	PHE	CD1-CE1	-8.06	1.23	1.39
1	1	105	DG	C4'-O4'	-8.05	1.36	1.45
3	A	247	PRO	C-N	-8.05	1.19	1.34
3	A	333	GLN	CB-CG	-8.04	1.30	1.52
3	A	272	VAL	CB-CG1	-8.04	1.35	1.52
4	B	208	ILE	CB-CG2	-8.04	1.27	1.52
3	A	326	ARG	CA-CB	-8.04	1.36	1.53
1	1	99	DT	N3-C4	-8.03	1.32	1.38
1	1	97	DT	C4-O4	-8.03	1.16	1.23
8	G	288	THR	C-N	-8.03	1.19	1.34
4	B	252	LYS	CD-CE	-8.02	1.31	1.51
5	C	180	VAL	CB-CG2	-8.02	1.36	1.52
5	D	180	VAL	CB-CG2	-8.02	1.35	1.52
1	1	91	DT	C2-N3	-8.02	1.31	1.37
1	1	100	DA	C1'-N9	-8.02	1.36	1.47
3	A	691	MET	CB-CG	-8.02	1.25	1.51
3	A	981	LYS	CB-CG	-8.02	1.30	1.52
4	B	708	LEU	C-N	-8.02	1.15	1.34
4	B	19	TRP	CZ3-CH2	-8.01	1.27	1.40
5	D	126	TYR	CD1-CE1	-8.01	1.27	1.39
6	E	307	GLN	CB-CG	-8.00	1.30	1.52
1	1	103	DA	C6-N1	-8.00	1.29	1.35
1	1	102	DA	C3'-O3'	-8.00	1.33	1.44
1	1	80	DA	C5-C4	-7.99	1.33	1.38
5	D	199	TRP	CE2-CZ2	-7.99	1.26	1.39
3	A	981	LYS	CA-CB	-7.99	1.36	1.53
4	B	631	TRP	CZ3-CH2	-7.98	1.27	1.40
1	1	111	DT	C4-C5	-7.98	1.37	1.45
3	A	817	VAL	CB-CG2	-7.98	1.36	1.52
3	A	114	VAL	CB-CG1	-7.98	1.36	1.52
3	A	449	THR	CB-CG2	-7.98	1.26	1.52
4	B	463	LYS	CD-CE	-7.98	1.31	1.51
1	1	92	DT	C5-C7	-7.98	1.45	1.50
2	2	67	DA	C1'-N9	-7.98	1.36	1.47
6	E	229	ARG	CB-CG	-7.97	1.31	1.52
2	2	42	DT	N1-C2	-7.97	1.31	1.38
5	C	199	TRP	CE2-CZ2	-7.97	1.26	1.39
3	A	267	TYR	CB-CG	-7.96	1.39	1.51
8	G	87	GLN	CG-CD	-7.96	1.32	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	338	VAL	CB-CG2	-7.96	1.36	1.52
3	A	642	TYR	CB-CG	-7.96	1.39	1.51
5	D	183	VAL	CB-CG2	-7.96	1.36	1.52
6	E	143	ASN	CA-CB	-7.96	1.32	1.53
4	B	41	PHE	CD2-CE2	-7.95	1.23	1.39
2	2	40	DC	C4-C5	-7.95	1.36	1.43
3	A	378	PHE	CG-CD2	-7.95	1.26	1.38
1	1	80	DA	C1'-N9	-7.95	1.36	1.47
3	A	770	VAL	CB-CG2	-7.94	1.36	1.52
8	G	325	VAL	CB-CG1	-7.94	1.36	1.52
3	A	855	ARG	CB-CG	-7.94	1.31	1.52
3	A	899	PHE	CG-CD2	-7.94	1.26	1.38
6	E	572	GLU	C-N	-7.94	1.19	1.34
1	1	81	DT	C4-O4	-7.93	1.16	1.23
3	A	32	GLU	CG-CD	-7.93	1.40	1.51
3	A	1035	GLN	CG-CD	-7.93	1.32	1.51
2	2	31	DA	N7-C5	-7.93	1.34	1.39
2	2	45	DA	C5-C6	-7.93	1.33	1.41
1	1	83	DC	C5-C6	-7.92	1.28	1.34
3	A	115	PHE	CB-CG	-7.92	1.37	1.51
4	B	24	TYR	CB-CG	-7.92	1.39	1.51
1	1	117	DG	N9-C4	-7.92	1.31	1.38
3	A	41	PHE	CE1-CZ	-7.92	1.22	1.37
3	A	323	ARG	CG-CD	-7.92	1.32	1.51
1	1	76	DC	C4-C5	-7.92	1.36	1.43
4	B	172	TYR	CG-CD1	-7.92	1.28	1.39
6	E	63	PHE	CG-CD1	-7.92	1.26	1.38
3	A	930	ARG	CB-CG	-7.92	1.31	1.52
3	A	770	VAL	CB-CG1	-7.91	1.36	1.52
6	E	348	ASN	C-N	-7.91	1.15	1.34
2	2	50	DG	C1'-N9	-7.91	1.36	1.47
3	A	420	ARG	CB-CG	-7.90	1.31	1.52
6	E	567	ASP	CB-CG	-7.90	1.35	1.51
3	A	289	VAL	CB-CG1	-7.89	1.36	1.52
6	E	387	PHE	CG-CD1	-7.89	1.26	1.38
6	E	391	ARG	CB-CG	-7.89	1.31	1.52
1	1	62	DT	O4'-C1'	-7.88	1.32	1.42
3	A	637	TYR	CD2-CE2	-7.88	1.27	1.39
8	G	197	LYS	CA-CB	-7.88	1.36	1.53
3	A	96	TYR	CG-CD2	-7.87	1.28	1.39
3	A	149	TYR	CD2-CE2	-7.87	1.27	1.39
6	E	384	PHE	CG-CD1	-7.87	1.26	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	104	DT	O4'-C1'	-7.86	1.32	1.42
3	A	839	TYR	CE1-CZ	-7.86	1.28	1.38
5	C	68	VAL	CB-CG1	-7.86	1.36	1.52
4	B	3	PHE	CE1-CZ	-7.86	1.22	1.37
3	A	49	GLU	CG-CD	-7.85	1.40	1.51
6	E	276	TYR	CG-CD2	-7.85	1.28	1.39
6	E	391	ARG	CG-CD	-7.85	1.32	1.51
3	A	524	VAL	CB-CG2	-7.85	1.36	1.52
4	B	173	ILE	CB-CG2	-7.85	1.28	1.52
6	E	116	TRP	C-N	-7.85	1.16	1.34
6	E	319	ARG	CB-CG	-7.85	1.31	1.52
3	A	377	PHE	CD2-CE2	-7.84	1.23	1.39
3	A	835	VAL	CB-CG1	-7.84	1.36	1.52
1	1	77	DA	C6-N1	-7.83	1.30	1.35
2	2	58	DA	C6-N6	-7.83	1.27	1.33
3	A	899	PHE	CD1-CE1	-7.83	1.23	1.39
2	2	43	DG	C8-N7	-7.82	1.26	1.30
3	A	437	GLU	CB-CG	-7.82	1.37	1.52
3	A	882	ILE	CB-CG1	-7.82	1.32	1.54
1	1	120	DT	N1-C2	-7.82	1.31	1.38
2	2	49	DT	C5-C6	-7.82	1.28	1.34
3	A	135	ARG	CG-CD	-7.82	1.32	1.51
5	D	68	VAL	CB-CG1	-7.82	1.36	1.52
4	B	788	VAL	CB-CG2	-7.81	1.36	1.52
6	E	484	GLN	CB-CG	-7.81	1.31	1.52
6	E	620	GLN	CG-CD	-7.81	1.33	1.51
1	1	113	DT	C4-C5	-7.81	1.38	1.45
3	A	1078	GLN	C-N	-7.81	1.16	1.34
1	1	108	DA	C5-C4	-7.80	1.33	1.38
5	C	199	TRP	CG-CD1	-7.80	1.25	1.36
1	1	106	DG	C8-N7	-7.79	1.26	1.30
2	2	58	DA	C1'-N9	-7.79	1.36	1.47
3	A	552	ARG	CB-CG	-7.79	1.31	1.52
1	1	103	DA	N9-C8	-7.79	1.31	1.37
6	E	63	PHE	CD2-CE2	-7.79	1.23	1.39
3	A	1075	ARG	CG-CD	-7.78	1.32	1.51
3	A	979	MET	CB-CG	-7.78	1.26	1.51
4	B	481	TRP	CZ3-CH2	-7.78	1.27	1.40
5	D	199	TRP	CG-CD1	-7.78	1.25	1.36
5	C	53	VAL	CB-CG2	-7.77	1.36	1.52
2	2	45	DA	C6-N6	-7.77	1.27	1.33
3	A	365	VAL	CB-CG2	-7.77	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	559	MET	CG-SD	-7.76	1.60	1.81
4	B	199	ARG	CB-CG	-7.76	1.31	1.52
2	2	35	DA	C2-N3	-7.76	1.26	1.33
2	2	44	DA	C6-N6	-7.76	1.27	1.33
5	D	53	VAL	CB-CG2	-7.76	1.36	1.52
3	A	868	ILE	CB-CG2	-7.75	1.28	1.52
6	E	347	GLN	CA-CB	-7.75	1.36	1.53
4	B	1150	ASN	CB-CG	-7.75	1.33	1.51
6	E	564	VAL	CB-CG2	-7.75	1.36	1.52
4	B	223	ARG	CB-CG	-7.74	1.31	1.52
5	C	47	ASN	CB-CG	-7.74	1.33	1.51
1	1	63	DG	N1-C2	-7.73	1.31	1.37
1	1	105	DG	C8-N7	-7.73	1.26	1.30
6	E	586	VAL	CB-CG1	-7.73	1.36	1.52
1	1	105	DG	C5'-C4'	-7.73	1.42	1.51
2	2	9	DC	C3'-O3'	-7.72	1.33	1.44
6	E	282	ARG	CB-CG	-7.72	1.31	1.52
2	2	46	DT	O4'-C1'	-7.72	1.32	1.42
5	D	126	TYR	CD2-CE2	-7.72	1.27	1.39
1	1	100	DA	N3-C4	-7.71	1.30	1.34
3	A	600	TYR	CD2-CE2	-7.71	1.27	1.39
1	1	92	DT	C4-O4	-7.71	1.16	1.23
5	D	47	ASN	CB-CG	-7.71	1.33	1.51
1	1	86	DG	N7-C5	-7.71	1.34	1.39
3	A	1001	VAL	CB-CG2	-7.70	1.36	1.52
5	C	71	VAL	CB-CG2	-7.70	1.36	1.52
6	E	301	ASN	CB-CG	-7.70	1.33	1.51
2	2	43	DG	C5-C4	-7.70	1.32	1.38
3	A	1070	PHE	CD1-CE1	-7.70	1.23	1.39
6	E	139	ILE	CB-CG2	-7.70	1.28	1.52
5	D	71	VAL	CB-CG2	-7.70	1.36	1.52
4	B	1129	TYR	CG-CD1	-7.69	1.29	1.39
1	1	79	DA	C6-N6	-7.69	1.27	1.33
3	A	1055	ILE	CB-CG2	-7.69	1.29	1.52
4	B	264	ILE	CB-CG2	-7.69	1.29	1.52
1	1	120	DT	C2-N3	-7.68	1.31	1.37
3	A	762	TRP	CG-CD1	-7.68	1.25	1.36
4	B	1226	GLU	CG-CD	-7.68	1.40	1.51
6	E	142	PHE	C-N	-7.68	1.16	1.34
3	A	661	GLU	CB-CG	-7.68	1.37	1.52
6	E	393	ILE	CB-CG2	-7.67	1.29	1.52
1	1	98	DG	C4'-C3'	-7.67	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	381	ILE	CB-CG2	-7.67	1.29	1.52
3	A	605	GLU	CB-CG	-7.67	1.37	1.52
3	A	326	ARG	CB-CG	-7.66	1.31	1.52
2	2	34	DA	C1'-N9	-7.66	1.36	1.47
7	F	29	TYR	CE2-CZ	-7.66	1.28	1.38
2	2	59	DG	N9-C8	-7.66	1.32	1.37
6	E	35	VAL	CB-CG1	-7.66	1.36	1.52
4	B	222	VAL	CB-CG2	-7.65	1.36	1.52
6	E	280	ILE	CB-CG2	-7.65	1.29	1.52
6	E	387	PHE	CE2-CZ	-7.65	1.22	1.37
3	A	722	TYR	CD2-CE2	-7.65	1.27	1.39
3	A	1042	SER	CA-CB	-7.65	1.41	1.52
2	2	49	DT	C4'-C3'	-7.65	1.45	1.52
4	B	163	PHE	CB-CG	-7.65	1.38	1.51
1	1	85	DG	N1-C2	-7.64	1.31	1.37
6	E	423	ILE	CB-CG2	-7.64	1.29	1.52
6	E	283	ASN	CB-CG	-7.63	1.33	1.51
3	A	1049	ASN	CB-CG	-7.63	1.33	1.51
4	B	1117	VAL	CB-CG2	-7.62	1.36	1.52
6	E	304	ARG	CB-CG	-7.62	1.31	1.52
6	E	592	ARG	CB-CG	-7.62	1.31	1.52
3	A	1070	PHE	CE1-CZ	-7.62	1.22	1.37
2	2	4	DG	C5-C6	-7.61	1.34	1.42
1	1	95	DT	C2-O2	-7.61	1.16	1.22
2	2	46	DT	C5-C7	-7.61	1.45	1.50
5	D	20	TYR	CE1-CZ	-7.61	1.28	1.38
6	E	61	ARG	CB-CG	-7.60	1.32	1.52
3	A	328	VAL	CB-CG2	-7.60	1.36	1.52
4	B	177	TYR	CD1-CE1	-7.59	1.27	1.39
4	B	220	ILE	CB-CG2	-7.59	1.29	1.52
3	A	38	PHE	CG-CD1	-7.59	1.27	1.38
6	E	63	PHE	CE1-CZ	-7.59	1.23	1.37
1	1	80	DA	C8-N7	-7.58	1.26	1.31
2	2	52	DA	C5-C4	-7.58	1.33	1.38
1	1	75	DA	C1'-N9	-7.58	1.36	1.47
3	A	261	PHE	CG-CD2	-7.57	1.27	1.38
3	A	510	VAL	CB-CG2	-7.57	1.36	1.52
7	F	31	ILE	CB-CG2	-7.57	1.29	1.52
1	1	79	DA	C8-N7	-7.57	1.26	1.31
1	1	106	DG	C1'-N9	-7.57	1.36	1.47
3	A	1004	GLN	CB-CG	-7.57	1.32	1.52
4	B	238	ARG	CB-CG	-7.57	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	17	ILE	CB-CG2	-7.56	1.29	1.52
4	B	1124	GLU	CB-CG	-7.55	1.37	1.52
2	2	49	DT	C5-C7	-7.55	1.45	1.50
1	1	105	DG	P-O5'	-7.55	1.52	1.59
3	A	562	GLN	CB-CG	-7.55	1.32	1.52
1	1	78	DA	C8-N7	-7.54	1.26	1.31
6	E	372	GLN	CB-CG	-7.54	1.32	1.52
6	E	389	ILE	CB-CG2	-7.54	1.29	1.52
3	A	38	PHE	CD2-CE2	-7.53	1.24	1.39
3	A	1070	PHE	CG-CD1	-7.53	1.27	1.38
4	B	37	LYS	CB-CG	-7.53	1.32	1.52
2	2	41	DC	C4-C5	-7.53	1.36	1.43
5	D	44	LEU	C-N	-7.52	1.16	1.34
2	2	68	DT	C4-C5	-7.52	1.38	1.45
3	A	336	VAL	CB-CG1	-7.52	1.37	1.52
3	A	1053	ASN	CB-CG	-7.52	1.33	1.51
1	1	107	DG	C1'-N9	-7.52	1.36	1.47
1	1	116	DC	C3'-O3'	-7.52	1.34	1.44
1	1	79	DA	N9-C8	-7.52	1.31	1.37
2	2	60	DC	C5-C6	-7.52	1.28	1.34
1	1	77	DA	C6-N6	-7.50	1.27	1.33
3	A	510	VAL	CB-CG1	-7.50	1.37	1.52
4	B	1237	GLU	CD-OE1	-7.50	1.17	1.25
6	E	298	ILE	CB-CG2	-7.50	1.29	1.52
1	1	77	DA	N9-C8	-7.50	1.31	1.37
6	E	63	PHE	CG-CD2	-7.50	1.27	1.38
1	1	92	DT	C2-N3	-7.50	1.31	1.37
1	1	108	DA	N7-C5	-7.50	1.34	1.39
6	E	545	PHE	CG-CD2	-7.50	1.27	1.38
3	A	839	TYR	CG-CD2	-7.50	1.29	1.39
5	C	44	LEU	C-N	-7.49	1.16	1.34
6	E	116	TRP	CE2-CZ2	-7.49	1.27	1.39
3	A	1069	SER	CA-CB	-7.49	1.41	1.52
4	B	457	GLU	CG-CD	-7.48	1.40	1.51
1	1	99	DT	C4'-O4'	-7.47	1.37	1.45
2	2	29	DA	N1-C2	-7.47	1.27	1.34
3	A	38	PHE	CE1-CZ	-7.46	1.23	1.37
3	A	805	ARG	CA-CB	-7.46	1.37	1.53
2	2	33	DA	C5-C6	-7.46	1.34	1.41
3	A	526	TYR	CE2-CZ	-7.46	1.28	1.38
2	2	4	DG	C1'-N9	-7.46	1.36	1.47
2	2	36	DT	N3-C4	-7.46	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	802	ASN	CB-CG	-7.46	1.33	1.51
5	D	208	GLU	CB-CG	-7.46	1.38	1.52
3	A	302	ASP	CB-CG	-7.45	1.36	1.51
1	1	79	DA	C2'-C1'	-7.45	1.44	1.52
2	2	32	DA	C2-N3	-7.45	1.26	1.33
2	2	48	DT	N1-C6	-7.45	1.33	1.38
4	B	172	TYR	CE2-CZ	-7.45	1.28	1.38
6	E	588	TYR	CE2-CZ	-7.45	1.28	1.38
3	A	529	VAL	CB-CG2	-7.45	1.37	1.52
3	A	576	THR	CA-C	-7.45	1.33	1.52
3	A	82	GLU	CB-CG	-7.44	1.38	1.52
1	1	84	DA	C2-N3	-7.43	1.26	1.33
1	1	93	DT	C5-C7	-7.43	1.45	1.50
2	2	35	DA	C6-N6	-7.43	1.28	1.33
2	2	43	DG	N7-C5	-7.43	1.34	1.39
3	A	1043	ASP	CA-CB	-7.43	1.37	1.53
3	A	572	PRO	CB-CG	-7.43	1.12	1.50
1	1	96	DC	C4-C5	-7.43	1.37	1.43
1	1	116	DC	C1'-N1	-7.42	1.36	1.47
1	1	77	DA	C8-N7	-7.42	1.26	1.31
1	1	90	DA	C8-N7	-7.42	1.26	1.31
3	A	715	THR	CA-CB	-7.42	1.34	1.53
3	A	324	ARG	CB-CG	-7.42	1.32	1.52
3	A	226	GLU	CB-CG	-7.41	1.38	1.52
1	1	79	DA	N7-C5	-7.41	1.34	1.39
4	B	1142	GLU	CD-OE1	-7.41	1.17	1.25
3	A	113	GLU	CB-CG	-7.41	1.38	1.52
1	1	95	DT	P-O5'	-7.40	1.52	1.59
1	1	96	DC	N3-C4	-7.40	1.28	1.33
3	A	600	TYR	CG-CD1	-7.40	1.29	1.39
3	A	940	ARG	CB-CG	-7.40	1.32	1.52
3	A	378	PHE	CD1-CE1	-7.40	1.24	1.39
4	B	177	TYR	CD2-CE2	-7.39	1.28	1.39
1	1	95	DT	C5-C7	-7.39	1.45	1.50
3	A	144	SER	C-N	-7.39	1.20	1.34
4	B	3	PHE	CG-CD2	-7.39	1.27	1.38
4	B	172	TYR	CG-CD2	-7.39	1.29	1.39
6	E	465	ASN	CB-CG	-7.39	1.34	1.51
4	B	174	ILE	CB-CG2	-7.38	1.29	1.52
1	1	72	DT	C5-C6	-7.38	1.29	1.34
3	A	147	VAL	CB-CG1	-7.37	1.37	1.52
6	E	145	TYR	CG-CD1	-7.37	1.29	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	73	DA	C8-N7	-7.37	1.26	1.31
4	B	29	THR	CB-CG2	-7.37	1.28	1.52
1	1	86	DG	C2'-C1'	-7.37	1.44	1.52
3	A	609	ARG	CG-CD	-7.37	1.33	1.51
5	D	140	PHE	CB-CG	-7.37	1.38	1.51
3	A	668	VAL	CB-CG1	-7.36	1.37	1.52
5	C	208	GLU	CB-CG	-7.36	1.38	1.52
6	E	303	LYS	CB-CG	-7.36	1.32	1.52
3	A	526	TYR	CG-CD1	-7.36	1.29	1.39
6	E	545	PHE	CE2-CZ	-7.35	1.23	1.37
1	1	101	DT	N3-C4	-7.35	1.32	1.38
3	A	377	PHE	CD1-CE1	-7.35	1.24	1.39
1	1	78	DA	C6-N6	-7.34	1.28	1.33
4	B	281	VAL	CB-CG2	-7.34	1.37	1.52
1	1	115	DA	C2-N3	-7.34	1.26	1.33
6	E	382	GLU	CG-CD	-7.34	1.41	1.51
4	B	606	PHE	CE2-CZ	-7.34	1.23	1.37
1	1	88	DA	N1-C2	-7.34	1.27	1.34
8	G	184	ILE	CB-CG2	-7.34	1.30	1.52
1	1	85	DG	N9-C8	-7.33	1.32	1.37
5	C	140	PHE	CB-CG	-7.33	1.38	1.51
6	E	195	ARG	CB-CG	-7.33	1.32	1.52
1	1	104	DT	C4-O4	-7.33	1.16	1.23
3	A	1003	GLN	CG-CD	-7.32	1.34	1.51
2	2	31	DA	C2-N3	-7.32	1.26	1.33
2	2	43	DG	C2-N2	-7.31	1.27	1.34
2	2	51	DT	C2-O2	-7.31	1.16	1.22
2	2	58	DA	N3-C4	-7.31	1.30	1.34
6	E	142	PHE	CD2-CE2	-7.31	1.24	1.39
2	2	36	DT	C5-C7	-7.31	1.45	1.50
8	G	213	TRP	CD2-CE2	-7.31	1.32	1.41
1	1	107	DG	C3'-O3'	-7.31	1.34	1.44
2	2	66	DA	C1'-N9	-7.30	1.37	1.47
4	B	1129	TYR	CG-CD2	-7.30	1.29	1.39
5	C	82	MET	N-CA	-7.30	1.31	1.46
1	1	110	DC	N1-C6	-7.30	1.32	1.37
1	1	101	DT	O4'-C1'	-7.30	1.33	1.42
3	A	963	ARG	CB-CG	-7.29	1.32	1.52
7	F	30	ARG	CB-CG	-7.29	1.32	1.52
3	A	605	GLU	CG-CD	-7.29	1.41	1.51
3	A	393	LEU	CG-CD1	-7.28	1.25	1.51
3	A	456	TYR	CD2-CE2	-7.28	1.28	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	214	ILE	CB-CG2	-7.28	1.30	1.52
6	E	621	GLU	CB-CG	-7.28	1.38	1.52
3	A	1070	PHE	CD2-CE2	-7.27	1.24	1.39
6	E	491	MET	CA-CB	-7.27	1.38	1.53
5	D	56	VAL	CB-CG1	-7.26	1.37	1.52
5	D	82	MET	N-CA	-7.26	1.31	1.46
6	E	360	SER	CB-OG	-7.26	1.32	1.42
3	A	378	PHE	CD2-CE2	-7.26	1.24	1.39
1	1	105	DG	N1-C2	-7.25	1.31	1.37
3	A	33	ILE	CB-CG2	-7.25	1.30	1.52
3	A	642	TYR	CD1-CE1	-7.25	1.28	1.39
5	D	127	VAL	CB-CG1	-7.25	1.37	1.52
2	2	53	DT	N1-C6	-7.25	1.33	1.38
3	A	1048	ARG	CB-CG	-7.25	1.32	1.52
4	B	21	PHE	CG-CD2	-7.25	1.27	1.38
4	B	242	ARG	CG-CD	-7.25	1.33	1.51
5	C	78	ILE	CB-CG2	-7.24	1.30	1.52
5	D	78	ILE	CB-CG2	-7.24	1.30	1.52
8	G	320	GLU	CG-CD	-7.24	1.41	1.51
1	1	85	DG	C8-N7	-7.24	1.26	1.30
1	1	96	DC	C3'-O3'	-7.24	1.34	1.44
6	E	362	ILE	CB-CG1	-7.24	1.33	1.54
1	1	98	DG	C5'-C4'	-7.24	1.43	1.51
5	C	56	VAL	CB-CG1	-7.24	1.37	1.52
5	C	119	GLU	CB-CG	-7.24	1.38	1.52
3	A	850	ASP	CA-CB	-7.23	1.38	1.53
1	1	106	DG	C5'-C4'	-7.23	1.43	1.51
3	A	905	TRP	CG-CD1	-7.23	1.26	1.36
5	D	199	TRP	CG-CD2	-7.22	1.31	1.43
6	E	468	PHE	CD1-CE1	-7.22	1.24	1.39
3	A	963	ARG	CG-CD	-7.21	1.33	1.51
6	E	145	TYR	CE2-CZ	-7.21	1.29	1.38
8	G	313	VAL	CB-CG1	-7.21	1.37	1.52
1	1	86	DG	C6-O6	-7.20	1.17	1.24
2	2	41	DC	C2-N3	-7.20	1.29	1.35
5	C	199	TRP	CG-CD2	-7.20	1.31	1.43
8	G	201	GLU	C-N	-7.20	1.17	1.34
4	B	46	ARG	CB-CG	-7.20	1.33	1.52
6	E	138	GLN	CB-CG	-7.20	1.33	1.52
2	2	9	DC	C2-N3	-7.19	1.29	1.35
3	A	560	GLN	CG-CD	-7.19	1.34	1.51
4	B	169	VAL	CB-CG2	-7.19	1.37	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	108	DA	N9-C8	-7.18	1.32	1.37
1	1	89	DA	C2-N3	-7.18	1.27	1.33
4	B	41	PHE	CD1-CE1	-7.18	1.24	1.39
2	2	57	DT	N3-C4	-7.18	1.32	1.38
2	2	50	DG	C5'-C4'	-7.17	1.43	1.51
4	B	41	PHE	CG-CD2	-7.17	1.27	1.38
6	E	304	ARG	CG-CD	-7.17	1.34	1.51
6	E	468	PHE	CD2-CE2	-7.17	1.24	1.39
2	2	52	DA	C6-N6	-7.17	1.28	1.33
2	2	32	DA	C6-N6	-7.17	1.28	1.33
1	1	81	DT	C4'-C3'	-7.16	1.45	1.52
3	A	275	TYR	CB-CG	-7.16	1.41	1.51
2	2	41	DC	N1-C2	-7.16	1.32	1.40
3	A	899	PHE	CE1-CZ	-7.16	1.23	1.37
1	1	107	DG	N1-C2	-7.15	1.32	1.37
4	B	1144	ILE	CB-CG2	-7.15	1.30	1.52
1	1	85	DG	C6-N1	-7.15	1.34	1.39
3	A	600	TYR	CB-CG	-7.15	1.41	1.51
6	E	306	LEU	CG-CD2	-7.15	1.25	1.51
3	A	490	VAL	C-N	-7.15	1.17	1.34
5	D	181	GLU	CD-OE2	-7.15	1.17	1.25
1	1	103	DA	C6-N6	-7.14	1.28	1.33
3	A	738	ARG	CB-CG	-7.14	1.33	1.52
1	1	88	DA	C6-N1	-7.13	1.30	1.35
2	2	41	DC	C5-C6	-7.13	1.28	1.34
4	B	256	VAL	CB-CG1	-7.13	1.37	1.52
2	2	50	DG	C6-O6	-7.13	1.17	1.24
3	A	1086	VAL	CB-CG2	-7.13	1.37	1.52
2	2	66	DA	N7-C5	-7.13	1.34	1.39
4	B	277	VAL	CB-CG2	-7.13	1.37	1.52
4	B	1237	GLU	CD-OE2	-7.13	1.17	1.25
3	A	38	PHE	CB-CG	-7.12	1.39	1.51
6	E	483	SER	CA-CB	-7.12	1.42	1.52
4	B	41	PHE	CE1-CZ	-7.12	1.23	1.37
7	F	29	TYR	CE1-CZ	-7.12	1.29	1.38
3	A	732	GLY	C-N	-7.11	1.20	1.34
6	E	257	ARG	CB-CG	-7.11	1.33	1.52
2	2	43	DG	C2-N3	-7.11	1.27	1.32
1	1	102	DA	C4'-C3'	-7.10	1.45	1.52
2	2	38	DT	C2-O2	-7.10	1.16	1.22
4	B	972	TYR	CD1-CE1	-7.10	1.28	1.39
7	F	32	THR	CB-CG2	-7.10	1.28	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	83	GLU	CB-CG	-7.10	1.38	1.52
1	1	101	DT	C4'-O4'	-7.09	1.38	1.45
6	E	141	TYR	CE2-CZ	-7.09	1.29	1.38
2	2	41	DC	C3'-O3'	-7.09	1.34	1.44
2	2	44	DA	N9-C8	-7.09	1.32	1.37
3	A	301	VAL	CB-CG2	-7.09	1.38	1.52
3	A	723	GLU	CB-CG	-7.09	1.38	1.52
4	B	1221	THR	CB-CG2	-7.09	1.28	1.52
1	1	115	DA	C6-N1	-7.08	1.30	1.35
8	G	199	ASP	CB-CG	-7.08	1.36	1.51
3	A	271	ARG	CB-CG	-7.08	1.33	1.52
5	D	126	TYR	CE2-CZ	-7.08	1.29	1.38
6	E	515	LEU	CG-CD1	-7.08	1.25	1.51
6	E	384	PHE	CE2-CZ	-7.08	1.24	1.37
5	D	75	VAL	CB-CG2	-7.08	1.38	1.52
3	A	806	VAL	CB-CG2	-7.07	1.38	1.52
6	E	588	TYR	CB-CG	-7.07	1.41	1.51
5	C	75	VAL	CB-CG2	-7.07	1.38	1.52
1	1	91	DT	C4-O4	-7.06	1.16	1.23
2	2	47	DT	C4-O4	-7.06	1.16	1.23
3	A	140	GLN	CB-CG	-7.06	1.33	1.52
1	1	87	DA	C6-N6	-7.05	1.28	1.33
3	A	1075	ARG	CB-CG	-7.05	1.33	1.52
2	2	60	DC	C2-N3	-7.05	1.30	1.35
6	E	347	GLN	CB-CG	-7.05	1.33	1.52
6	E	513	MET	CB-CG	-7.05	1.28	1.51
3	A	139	ASN	CA-CB	-7.05	1.34	1.53
3	A	310	ASP	CB-CG	-7.05	1.36	1.51
5	C	207	GLN	CB-CG	-7.05	1.33	1.52
8	G	89	ILE	CB-CG2	-7.05	1.31	1.52
1	1	87	DA	N1-C2	-7.04	1.28	1.34
5	D	149	ARG	CA-CB	-7.04	1.38	1.53
3	A	135	ARG	CA-CB	-7.04	1.38	1.53
3	A	263	ASP	C-N	-7.04	1.20	1.34
2	2	37	DT	C5-C6	-7.04	1.29	1.34
2	2	60	DC	C4'-C3'	-7.04	1.45	1.52
2	2	35	DA	C4'-O4'	-7.04	1.38	1.45
5	D	102	ASN	CB-CG	-7.03	1.34	1.51
2	2	42	DT	O4'-C1'	-7.03	1.33	1.42
1	1	82	DT	C4-O4	-7.03	1.17	1.23
1	1	103	DA	C1'-N9	-7.03	1.37	1.47
3	A	141	ILE	CB-CG2	-7.03	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	359	ARG	CA-CB	-7.02	1.38	1.53
2	2	32	DA	O4'-C1'	-7.02	1.33	1.42
3	A	581	GLN	CB-CG	-7.02	1.33	1.52
6	E	63	PHE	CB-CG	-7.02	1.39	1.51
6	E	147	VAL	CB-CG1	-7.02	1.38	1.52
6	E	590	TYR	CD1-CE1	-7.01	1.28	1.39
1	1	96	DC	C2'-C1'	-7.01	1.45	1.52
3	A	385	GLN	CB-CG	-7.01	1.33	1.52
3	A	1070	PHE	CA-CB	-7.01	1.38	1.53
1	1	108	DA	N3-C4	-7.01	1.30	1.34
2	2	45	DA	O4'-C1'	-7.01	1.33	1.42
1	1	105	DG	C4'-C3'	-7.01	1.45	1.52
3	A	377	PHE	CE1-CZ	-7.01	1.24	1.37
5	D	207	GLN	CB-CG	-7.00	1.33	1.52
6	E	619	ILE	CB-CG2	-7.00	1.31	1.52
3	A	685	ASN	CG-ND2	-7.00	1.15	1.32
2	2	31	DA	O4'-C1'	-7.00	1.33	1.42
3	A	147	VAL	CB-CG2	-7.00	1.38	1.52
3	A	516	PHE	CB-CG	-7.00	1.39	1.51
2	2	13	DA	N3-C4	-7.00	1.30	1.34
6	E	588	TYR	CG-CD1	-6.99	1.30	1.39
8	G	204	TYR	CB-CG	-6.99	1.41	1.51
3	A	798	ASP	CA-CB	-6.99	1.38	1.53
6	E	339	GLU	CG-CD	-6.99	1.41	1.51
1	1	82	DT	C1'-N1	-6.99	1.37	1.47
1	1	104	DT	C4'-O4'	-6.99	1.38	1.45
2	2	4	DG	N9-C4	-6.99	1.32	1.38
4	B	260	ARG	CG-CD	-6.99	1.34	1.51
4	B	1126	GLN	CG-CD	-6.99	1.34	1.51
6	E	390	ASN	CB-CG	-6.99	1.34	1.51
3	A	334	ASN	CB-CG	-6.98	1.34	1.51
4	B	489	ASN	CA-CB	-6.98	1.34	1.53
3	A	149	TYR	CG-CD2	-6.98	1.30	1.39
6	E	617	LYS	CB-CG	-6.98	1.33	1.52
1	1	95	DT	C2'-C1'	-6.97	1.45	1.52
2	2	30	DG	C2-N2	-6.97	1.27	1.34
2	2	46	DT	C4-O4	-6.97	1.17	1.23
3	A	378	PHE	CE2-CZ	-6.97	1.24	1.37
1	1	82	DT	C5-C7	-6.97	1.45	1.50
2	2	12	DG	C3'-O3'	-6.97	1.34	1.44
3	A	557	SER	CA-CB	-6.97	1.42	1.52
5	D	64	GLU	CB-CG	-6.97	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	149	TYR	CE2-CZ	-6.96	1.29	1.38
1	1	73	DA	C2-N3	-6.96	1.27	1.33
6	E	384	PHE	CE1-CZ	-6.96	1.24	1.37
4	B	457	GLU	CD-OE1	-6.96	1.18	1.25
3	A	738	ARG	CG-CD	-6.96	1.34	1.51
5	C	64	GLU	CB-CG	-6.95	1.39	1.52
2	2	48	DT	C3'-O3'	-6.95	1.34	1.44
4	B	1240	ILE	CB-CG2	-6.95	1.31	1.52
6	E	614	ILE	CB-CG2	-6.95	1.31	1.52
2	2	35	DA	N1-C2	-6.95	1.28	1.34
2	2	48	DT	N1-C2	-6.95	1.32	1.38
5	D	143	GLU	CG-CD	-6.94	1.41	1.51
6	E	345	PHE	CE1-CZ	-6.94	1.24	1.37
1	1	94	DT	P-O5'	-6.94	1.52	1.59
5	C	143	GLU	CG-CD	-6.93	1.41	1.51
4	B	24	TYR	CG-CD2	-6.93	1.30	1.39
3	A	813	ARG	CB-CG	-6.92	1.33	1.52
4	B	175	SER	CA-CB	-6.92	1.42	1.52
2	2	42	DT	C5-C6	-6.92	1.29	1.34
3	A	138	VAL	CB-CG1	-6.92	1.38	1.52
4	B	1130	GLN	CB-CG	-6.92	1.33	1.52
3	A	44	GLU	CB-CG	-6.92	1.39	1.52
3	A	847	GLN	CA-CB	-6.92	1.38	1.53
3	A	527	VAL	CB-CG1	-6.92	1.38	1.52
6	E	387	PHE	CE1-CZ	-6.91	1.24	1.37
6	E	384	PHE	CG-CD2	-6.91	1.28	1.38
6	E	427	PRO	CB-CG	-6.91	1.15	1.50
6	E	145	TYR	CE1-CZ	-6.91	1.29	1.38
3	A	675	THR	CB-CG2	-6.91	1.29	1.52
1	1	72	DT	C4-C5	-6.90	1.38	1.45
4	B	3	PHE	CE2-CZ	-6.90	1.24	1.37
1	1	90	DA	C4'-O4'	-6.89	1.38	1.45
5	D	85	VAL	CB-CG2	-6.89	1.38	1.52
3	A	905	TRP	CD2-CE3	-6.89	1.30	1.40
6	E	117	TYR	C-O	-6.89	1.10	1.23
5	C	85	VAL	CB-CG2	-6.89	1.38	1.52
4	B	45	THR	CB-CG2	-6.89	1.29	1.52
3	A	382	GLN	CB-CG	-6.89	1.33	1.52
4	B	184	VAL	CB-CG1	-6.89	1.38	1.52
1	1	99	DT	O4'-C1'	-6.88	1.33	1.42
6	E	387	PHE	CG-CD2	-6.88	1.28	1.38
2	2	39	DT	C4-O4	-6.88	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	942	GLU	CD-OE1	-6.88	1.18	1.25
3	A	498	ASP	CB-CG	-6.88	1.37	1.51
1	1	96	DC	C4'-C3'	-6.88	1.45	1.52
2	2	31	DA	C5-C6	-6.88	1.34	1.41
3	A	1070	PHE	CE2-CZ	-6.88	1.24	1.37
4	B	42	ARG	CG-CD	-6.88	1.34	1.51
2	2	52	DA	O4'-C1'	-6.87	1.34	1.42
3	A	526	TYR	CE1-CZ	-6.87	1.29	1.38
1	1	117	DG	C6-N1	-6.87	1.34	1.39
3	A	852	MET	CB-CG	-6.87	1.29	1.51
6	E	590	TYR	CE1-CZ	-6.87	1.29	1.38
4	B	325	GLU	CG-CD	-6.86	1.41	1.51
1	1	102	DA	C2-N3	-6.86	1.27	1.33
3	A	128	PHE	CG-CD1	-6.86	1.28	1.38
4	B	96	ASP	CB-CG	-6.86	1.37	1.51
4	B	184	VAL	CB-CG2	-6.86	1.38	1.52
4	B	195	TYR	CE2-CZ	-6.86	1.29	1.38
2	2	51	DT	C4-C5	-6.86	1.38	1.45
6	E	103	MET	CB-CG	-6.86	1.29	1.51
3	A	114	VAL	CB-CG2	-6.85	1.38	1.52
3	A	590	ILE	CB-CG2	-6.85	1.31	1.52
3	A	40	TRP	CE3-CZ3	-6.85	1.26	1.38
3	A	897	GLN	CG-CD	-6.85	1.35	1.51
1	1	76	DC	C4-N4	-6.84	1.27	1.33
2	2	31	DA	C8-N7	-6.84	1.26	1.31
2	2	29	DA	C2-N3	-6.84	1.27	1.33
5	D	85	VAL	CB-CG1	-6.84	1.38	1.52
4	B	1222	GLU	CA-CB	-6.83	1.39	1.53
8	G	319	ARG	CG-CD	-6.83	1.34	1.51
2	2	32	DA	N1-C2	-6.83	1.28	1.34
3	A	560	GLN	CA-CB	-6.82	1.39	1.53
1	1	108	DA	C3'-O3'	-6.82	1.35	1.44
5	D	20	TYR	CG-CD1	-6.82	1.30	1.39
3	A	642	TYR	CG-CD1	-6.82	1.30	1.39
4	B	72	GLU	CB-CG	-6.82	1.39	1.52
4	B	508	GLY	C-N	-6.82	1.18	1.34
4	B	653	TYR	CG-CD2	-6.82	1.30	1.39
1	1	97	DT	C5'-C4'	-6.81	1.43	1.51
5	C	221	PHE	CD1-CE1	-6.81	1.25	1.39
9	Y	90	TYR	CD1-CE1	-6.81	1.29	1.39
3	A	1034	LEU	CG-CD2	-6.80	1.26	1.51
5	C	85	VAL	CB-CG1	-6.80	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	48	DT	N3-C4	-6.80	1.33	1.38
2	2	31	DA	C4'-O4'	-6.80	1.38	1.45
1	1	86	DG	C2-N2	-6.80	1.27	1.34
3	A	274	ARG	CB-CG	-6.80	1.34	1.52
4	B	2	ILE	CB-CG2	-6.80	1.31	1.52
8	G	112	GLU	CB-CG	-6.79	1.39	1.52
1	1	98	DG	C2-N2	-6.79	1.27	1.34
6	E	418	VAL	CB-CG2	-6.79	1.38	1.52
3	A	601	VAL	CB-CG1	-6.79	1.38	1.52
4	B	195	TYR	CG-CD1	-6.79	1.30	1.39
3	A	1036	GLU	CD-OE1	-6.78	1.18	1.25
1	1	92	DT	C2-O2	-6.78	1.17	1.22
3	A	377	PHE	CG-CD2	-6.78	1.28	1.38
3	A	1079	SER	CB-OG	-6.78	1.33	1.42
3	A	378	PHE	CE1-CZ	-6.77	1.24	1.37
6	E	490	LEU	CG-CD2	-6.77	1.26	1.51
3	A	642	TYR	CG-CD2	-6.77	1.30	1.39
3	A	38	PHE	CG-CD2	-6.76	1.28	1.38
1	1	101	DT	C4-C5	-6.76	1.38	1.45
6	E	478	PRO	CB-CG	-6.76	1.16	1.50
3	A	940	ARG	CG-CD	-6.76	1.35	1.51
3	A	261	PHE	CD2-CE2	-6.75	1.25	1.39
4	B	177	TYR	CG-CD1	-6.75	1.30	1.39
6	E	311	ASP	CA-CB	-6.75	1.39	1.53
3	A	495	ILE	CB-CG2	-6.75	1.31	1.52
1	1	80	DA	C3'-C2'	-6.75	1.44	1.52
6	E	257	ARG	CG-CD	-6.75	1.35	1.51
1	1	100	DA	C8-N7	-6.75	1.26	1.31
4	B	171	GLU	CG-CD	-6.74	1.41	1.51
6	E	345	PHE	CG-CD2	-6.74	1.28	1.38
4	B	746	VAL	C-N	-6.74	1.21	1.34
2	2	5	DC	C1'-N1	-6.74	1.37	1.47
3	A	526	TYR	CG-CD2	-6.74	1.30	1.39
2	2	53	DT	N1-C2	-6.72	1.32	1.38
1	1	79	DA	N1-C2	-6.72	1.28	1.34
4	B	98	TRP	CB-CG	-6.72	1.38	1.50
3	A	458	PHE	CB-CG	-6.71	1.40	1.51
7	F	38	ARG	CB-CG	-6.71	1.34	1.52
1	1	97	DT	C2-O2	-6.71	1.17	1.22
3	A	551	ASN	CB-CG	-6.71	1.35	1.51
3	A	667	GLN	CB-CG	-6.71	1.34	1.52
5	D	90	TYR	CB-CG	-6.71	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	106	DG	C4'-O4'	-6.71	1.38	1.45
2	2	31	DA	C5'-C4'	-6.71	1.44	1.51
6	E	455	GLN	CG-CD	-6.71	1.35	1.51
4	B	1149	THR	CB-CG2	-6.70	1.30	1.52
6	E	353	ARG	CG-CD	-6.70	1.35	1.51
5	D	90	TYR	CD2-CE2	-6.70	1.29	1.39
5	D	81	ARG	CA-CB	-6.70	1.39	1.53
1	1	80	DA	N9-C8	-6.70	1.32	1.37
3	A	1033	THR	CB-CG2	-6.70	1.30	1.52
5	C	81	ARG	CA-CB	-6.69	1.39	1.53
6	E	590	TYR	CG-CD2	-6.69	1.30	1.39
3	A	392	PRO	CB-CG	-6.69	1.16	1.50
3	A	1003	GLN	CB-CG	-6.69	1.34	1.52
3	A	96	TYR	CG-CD1	-6.69	1.30	1.39
2	2	6	DA	N7-C5	-6.68	1.35	1.39
3	A	149	TYR	CD1-CE1	-6.68	1.29	1.39
1	1	82	DT	C4-C5	-6.68	1.39	1.45
6	E	345	PHE	CG-CD1	-6.68	1.28	1.38
1	1	101	DT	C2-O2	-6.67	1.17	1.22
1	1	103	DA	C4'-O4'	-6.67	1.38	1.45
2	2	34	DA	C2-N3	-6.67	1.27	1.33
3	A	1079	SER	C-O	-6.67	1.10	1.23
6	E	383	LEU	CG-CD2	-6.67	1.27	1.51
3	A	34	GLN	CG-CD	-6.67	1.35	1.51
1	1	73	DA	N9-C8	-6.67	1.32	1.37
3	A	44	GLU	CG-CD	-6.66	1.42	1.51
6	E	505	PRO	CB-CG	-6.66	1.16	1.50
2	2	60	DC	N3-C4	-6.66	1.29	1.33
4	B	72	GLU	CG-CD	-6.66	1.42	1.51
1	1	117	DG	N3-C4	-6.66	1.30	1.35
2	2	50	DG	N1-C2	-6.66	1.32	1.37
3	A	275	TYR	CD2-CE2	-6.66	1.29	1.39
2	2	32	DA	N7-C5	-6.66	1.35	1.39
3	A	128	PHE	CE2-CZ	-6.66	1.24	1.37
8	G	320	GLU	CB-CG	-6.66	1.39	1.52
1	1	92	DT	C2'-C1'	-6.65	1.45	1.52
1	1	107	DG	C6-O6	-6.65	1.18	1.24
2	2	60	DC	C3'-O3'	-6.65	1.35	1.44
5	D	140	PHE	CE2-CZ	-6.65	1.24	1.37
6	E	300	ARG	CG-CD	-6.65	1.35	1.51
1	1	116	DC	N3-C4	-6.64	1.29	1.33
3	A	724	ILE	CB-CG2	-6.64	1.32	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	429	MET	CA-CB	-6.64	1.39	1.53
3	A	128	PHE	CA-CB	-6.64	1.39	1.53
6	E	542	ILE	CB-CG2	-6.64	1.32	1.52
2	2	6	DA	C6-N1	-6.63	1.30	1.35
5	C	140	PHE	CE2-CZ	-6.63	1.24	1.37
1	1	73	DA	C6-N6	-6.63	1.28	1.33
3	A	40	TRP	CG-CD1	-6.62	1.27	1.36
6	E	376	PRO	N-CD	-6.62	1.38	1.47
3	A	427	TYR	CE2-CZ	-6.62	1.29	1.38
3	A	1005	PRO	CB-CG	-6.62	1.16	1.50
2	2	32	DA	C5-C6	-6.62	1.35	1.41
2	2	33	DA	C6-N6	-6.62	1.28	1.33
3	A	275	TYR	CD1-CE1	-6.61	1.29	1.39
8	G	319	ARG	CB-CG	-6.61	1.34	1.52
1	1	83	DC	N1-C6	-6.61	1.33	1.37
3	A	137	ILE	CB-CG2	-6.61	1.32	1.52
4	B	18	SER	CA-CB	-6.61	1.43	1.52
1	1	103	DA	C2-N3	-6.60	1.27	1.33
1	1	90	DA	C2-N3	-6.60	1.27	1.33
1	1	102	DA	C8-N7	-6.60	1.26	1.31
2	2	57	DT	C4-O4	-6.60	1.17	1.23
3	A	456	TYR	CE2-CZ	-6.60	1.29	1.38
3	A	960	TYR	CA-CB	-6.60	1.39	1.53
3	A	38	PHE	CE2-CZ	-6.60	1.24	1.37
1	1	61	DT	C3'-O3'	-6.59	1.35	1.44
3	A	341	ASN	CB-CG	-6.59	1.35	1.51
4	B	538	GLU	CB-CG	-6.59	1.39	1.52
2	2	49	DT	C2'-C1'	-6.59	1.45	1.52
2	2	43	DG	C4'-C3'	-6.59	1.46	1.52
5	D	193	ARG	CA-CB	-6.58	1.39	1.53
2	2	47	DT	C4-C5	-6.58	1.39	1.45
3	A	344	GLU	CG-CD	-6.57	1.42	1.51
6	E	593	VAL	CB-CG2	-6.57	1.39	1.52
3	A	285	VAL	C-N	-6.57	1.21	1.34
3	A	852	MET	CA-CB	-6.57	1.39	1.53
2	2	49	DT	C4-O4	-6.57	1.17	1.23
6	E	507	ILE	C-N	-6.57	1.19	1.34
2	2	30	DG	C6-O6	-6.57	1.18	1.24
1	1	85	DG	N7-C5	-6.56	1.35	1.39
6	E	348	ASN	CB-CG	-6.56	1.35	1.51
1	1	122	DC	C1'-N1	-6.56	1.38	1.47
2	2	58	DA	N9-C8	-6.56	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	193	ARG	CA-CB	-6.56	1.39	1.53
1	1	96	DC	C5'-C4'	-6.55	1.44	1.51
4	B	16	LEU	CG-CD1	-6.55	1.27	1.51
1	1	106	DG	C4'-C3'	-6.54	1.46	1.52
4	B	1076	VAL	CB-CG2	-6.54	1.39	1.52
3	A	1089	VAL	CB-CG1	-6.54	1.39	1.52
6	E	145	TYR	CG-CD2	-6.54	1.30	1.39
3	A	725	GLU	CB-CG	-6.54	1.39	1.52
2	2	46	DT	C2'-C1'	-6.54	1.45	1.52
1	1	99	DT	P-O5'	-6.53	1.53	1.59
3	A	643	GLN	CB-CG	-6.53	1.34	1.52
6	E	142	PHE	CE1-CZ	-6.53	1.25	1.37
8	G	212	TRP	CG-CD1	-6.53	1.27	1.36
1	1	111	DT	C5-C6	-6.52	1.29	1.34
5	C	84	GLU	CB-CG	-6.52	1.39	1.52
1	1	91	DT	O4'-C1'	-6.52	1.34	1.42
5	C	204	ILE	CB-CG2	-6.52	1.32	1.52
1	1	100	DA	N7-C5	-6.51	1.35	1.39
3	A	705	SER	CA-CB	-6.51	1.43	1.52
6	E	349	LEU	CA-CB	-6.51	1.38	1.53
3	A	93	VAL	CB-CG2	-6.51	1.39	1.52
3	A	129	ILE	CB-CG2	-6.51	1.32	1.52
5	D	204	ILE	CB-CG2	-6.51	1.32	1.52
3	A	585	ASP	CB-CG	-6.51	1.38	1.51
5	D	84	GLU	CB-CG	-6.51	1.39	1.52
8	G	201	GLU	CB-CG	-6.51	1.39	1.52
6	E	384	PHE	CD1-CE1	-6.51	1.26	1.39
4	B	238	ARG	CG-CD	-6.50	1.35	1.51
6	E	259	MET	CG-SD	-6.50	1.64	1.81
6	E	342	GLN	CB-CG	-6.50	1.34	1.52
1	1	85	DG	C2'-C1'	-6.50	1.45	1.52
1	1	100	DA	C6-N1	-6.50	1.31	1.35
4	B	195	TYR	CG-CD2	-6.50	1.30	1.39
6	E	373	CYS	CA-CB	-6.50	1.39	1.53
2	2	44	DA	C4'-C3'	-6.50	1.46	1.52
2	2	8	DC	C2-N3	-6.49	1.30	1.35
3	A	377	PHE	CG-CD1	-6.49	1.29	1.38
1	1	106	DG	C6-O6	-6.48	1.18	1.24
5	C	216	ILE	CB-CG2	-6.48	1.32	1.52
4	B	631	TRP	CD2-CE2	-6.48	1.33	1.41
5	D	216	ILE	CB-CG2	-6.48	1.32	1.52
3	A	502	TYR	CD1-CE1	-6.48	1.29	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	983	VAL	CB-CG1	-6.48	1.39	1.52
4	B	606	PHE	CD1-CE1	-6.48	1.26	1.39
3	A	396	LEU	CG-CD1	-6.47	1.27	1.51
4	B	244	VAL	CB-CG2	-6.47	1.39	1.52
5	C	221	PHE	CD2-CE2	-6.47	1.26	1.39
6	E	282	ARG	CG-CD	-6.47	1.35	1.51
3	A	703	LEU	CG-CD1	-6.47	1.27	1.51
3	A	261	PHE	CG-CD1	-6.46	1.29	1.38
6	E	455	GLN	CB-CG	-6.46	1.35	1.52
1	1	121	DG	N7-C5	-6.46	1.35	1.39
4	B	1241	ILE	CB-CG2	-6.45	1.32	1.52
3	A	837	ARG	CG-CD	-6.45	1.35	1.51
1	1	102	DA	C2'-C1'	-6.45	1.45	1.52
3	A	847	GLN	CG-CD	-6.45	1.36	1.51
2	2	5	DC	C2-N3	-6.45	1.30	1.35
6	E	612	ARG	CB-CG	-6.45	1.35	1.52
1	1	79	DA	C2-N3	-6.44	1.27	1.33
3	A	143	ARG	CB-CG	-6.44	1.35	1.52
6	E	615	TYR	CA-CB	-6.44	1.39	1.53
6	E	504	ARG	CB-CG	-6.44	1.35	1.52
1	1	104	DT	P-O5'	-6.43	1.53	1.59
3	A	128	PHE	CE1-CZ	-6.43	1.25	1.37
8	G	213	TRP	CE3-CZ3	-6.43	1.27	1.38
3	A	243	ARG	CB-CG	-6.43	1.35	1.52
1	1	87	DA	C5'-C4'	-6.43	1.44	1.51
1	1	94	DT	C5-C7	-6.43	1.46	1.50
3	A	642	TYR	CE2-CZ	-6.43	1.30	1.38
2	2	60	DC	C4-C5	-6.42	1.37	1.43
6	E	315	ASP	CB-CG	-6.42	1.38	1.51
8	G	112	GLU	CG-CD	-6.42	1.42	1.51
1	1	73	DA	C2'-C1'	-6.42	1.45	1.52
6	E	563	ASP	CA-CB	-6.42	1.39	1.53
3	A	980	LEU	CG-CD1	-6.42	1.28	1.51
6	E	253	PRO	CG-CD	-6.42	1.29	1.50
1	1	89	DA	O4'-C1'	-6.41	1.34	1.42
3	A	664	VAL	CB-CG2	-6.41	1.39	1.52
4	B	611	VAL	CB-CG2	-6.41	1.39	1.52
3	A	433	ILE	CB-CG2	-6.40	1.32	1.52
6	E	508	THR	CB-CG2	-6.40	1.31	1.52
4	B	273	GLU	CB-CG	-6.40	1.40	1.52
3	A	1076	GLU	CG-CD	-6.40	1.42	1.51
1	1	63	DG	N9-C8	-6.39	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	113	GLU	CG-CD	-6.39	1.42	1.51
3	A	545	LEU	CG-CD1	-6.39	1.28	1.51
6	E	376	PRO	CG-CD	-6.39	1.29	1.50
1	1	90	DA	O4'-C1'	-6.39	1.34	1.42
3	A	719	ILE	CB-CG2	-6.39	1.33	1.52
6	E	473	MET	CB-CG	-6.39	1.30	1.51
1	1	58	DA	N1-C2	-6.39	1.28	1.34
5	C	221	PHE	CE1-CZ	-6.38	1.25	1.37
6	E	306	LEU	CG-CD1	-6.38	1.28	1.51
4	B	177	TYR	CE1-CZ	-6.38	1.30	1.38
3	A	40	TRP	CD2-CE2	-6.38	1.33	1.41
6	E	506	ILE	CB-CG2	-6.38	1.33	1.52
5	D	90	TYR	CD1-CE1	-6.38	1.29	1.39
5	C	221	PHE	CG-CD2	-6.37	1.29	1.38
6	E	60	GLU	C-N	-6.37	1.19	1.34
2	2	35	DA	C5'-C4'	-6.37	1.44	1.51
1	1	81	DT	N1-C2	-6.37	1.32	1.38
3	A	690	TYR	C-N	-6.36	1.19	1.34
4	B	22	THR	CB-CG2	-6.36	1.31	1.52
5	C	170	PHE	CG-CD1	-6.36	1.29	1.38
1	1	87	DA	P-O5'	-6.36	1.53	1.59
1	1	121	DG	C1'-N9	-6.36	1.38	1.47
6	E	250	PRO	CB-CG	-6.36	1.18	1.50
6	E	296	GLU	CG-CD	-6.36	1.42	1.51
1	1	96	DC	O4'-C1'	-6.36	1.34	1.42
3	A	581	GLN	CG-CD	-6.35	1.36	1.51
1	1	111	DT	N1-C2	-6.35	1.32	1.38
3	A	682	LEU	CG-CD2	-6.35	1.28	1.51
3	A	1071	LYS	CB-CG	-6.35	1.35	1.52
5	D	170	PHE	CG-CD1	-6.35	1.29	1.38
8	G	114	GLU	CB-CG	-6.35	1.40	1.52
3	A	502	TYR	CD2-CE2	-6.34	1.29	1.39
6	E	384	PHE	CD2-CE2	-6.34	1.26	1.39
1	1	102	DA	C6-N1	-6.34	1.31	1.35
3	A	642	TYR	CD2-CE2	-6.34	1.29	1.39
2	2	40	DC	C5-C6	-6.33	1.29	1.34
3	A	397	THR	CB-CG2	-6.33	1.31	1.52
6	E	275	LEU	CG-CD1	-6.33	1.28	1.51
3	A	1043	ASP	CB-CG	-6.33	1.38	1.51
7	F	22	ILE	CB-CG2	-6.32	1.33	1.52
2	2	6	DA	C8-N7	-6.32	1.27	1.31
3	A	437	GLU	CG-CD	-6.32	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	45	LEU	C-O	-6.32	1.11	1.23
2	2	57	DT	C3'-C2'	-6.31	1.44	1.52
4	B	38	ASP	CA-CB	-6.31	1.40	1.53
6	E	565	GLU	CG-CD	-6.31	1.42	1.51
3	A	1045	MET	CB-CG	-6.31	1.31	1.51
3	A	82	GLU	CG-CD	-6.31	1.42	1.51
4	B	488	TYR	CB-CG	-6.31	1.42	1.51
5	D	46	SER	CA-CB	-6.31	1.43	1.52
3	A	335	GLN	CB-CG	-6.30	1.35	1.52
6	E	253	PRO	CB-CG	-6.30	1.18	1.50
3	A	444	ILE	CB-CG2	-6.30	1.33	1.52
5	C	45	LEU	C-O	-6.30	1.11	1.23
1	1	100	DA	O5'-C5'	-6.30	1.26	1.42
2	2	68	DT	C1'-N1	-6.30	1.38	1.47
3	A	637	TYR	CE1-CZ	-6.30	1.30	1.38
6	E	384	PHE	C-N	-6.29	1.19	1.34
5	C	46	SER	CA-CB	-6.29	1.43	1.52
1	1	105	DG	C6-O6	-6.29	1.18	1.24
4	B	1120	PHE	CD1-CE1	-6.29	1.26	1.39
2	2	68	DT	N1-C2	-6.29	1.33	1.38
1	1	83	DC	C3'-O3'	-6.29	1.35	1.44
2	2	33	DA	C2'-C1'	-6.29	1.46	1.52
2	2	35	DA	N9-C8	-6.29	1.32	1.37
6	E	250	PRO	N-CD	-6.28	1.39	1.47
6	E	512	ASP	CA-CB	-6.28	1.40	1.53
4	B	21	PHE	CD1-CE1	-6.28	1.26	1.39
2	2	9	DC	C4-N4	-6.28	1.28	1.33
6	E	352	LYS	CB-CG	-6.28	1.35	1.52
3	A	262	PHE	CB-CG	-6.27	1.40	1.51
8	G	213	TRP	CE2-CZ2	-6.27	1.29	1.39
5	C	208	GLU	CG-CD	-6.26	1.42	1.51
6	E	521	THR	CB-CG2	-6.25	1.31	1.52
1	1	108	DA	C8-N7	-6.25	1.27	1.31
3	A	456	TYR	CE1-CZ	-6.25	1.30	1.38
3	A	523	GLN	CG-CD	-6.25	1.36	1.51
3	A	673	SER	CA-CB	-6.25	1.43	1.52
4	B	1209	SER	CA-CB	-6.25	1.43	1.52
3	A	35	ARG	CB-CG	-6.24	1.35	1.52
3	A	1089	VAL	CB-CG2	-6.24	1.39	1.52
6	E	346	ARG	CB-CG	-6.24	1.35	1.52
4	B	42	ARG	CA-CB	-6.24	1.40	1.53
8	G	216	GLN	CB-CG	-6.23	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	899	PHE	CA-CB	-6.23	1.40	1.53
1	1	81	DT	C5-C7	-6.23	1.46	1.50
3	A	261	PHE	CE2-CZ	-6.23	1.25	1.37
1	1	90	DA	C3'-O3'	-6.23	1.35	1.44
4	B	28	ARG	CA-CB	-6.22	1.40	1.53
8	G	186	GLU	CG-CD	-6.22	1.42	1.51
3	A	799	VAL	CB-CG1	-6.22	1.39	1.52
2	2	42	DT	C2'-C1'	-6.22	1.46	1.52
5	C	42	ARG	CB-CG	-6.22	1.35	1.52
1	1	92	DT	O4'-C1'	-6.22	1.34	1.42
3	A	902	LEU	CG-CD1	-6.21	1.28	1.51
3	A	982	LEU	CG-CD1	-6.21	1.28	1.51
6	E	574	VAL	CB-CG1	-6.21	1.39	1.52
3	A	267	TYR	CG-CD2	-6.21	1.31	1.39
9	X	98	VAL	CB-CG2	-6.21	1.39	1.52
3	A	25	PHE	CB-CG	-6.21	1.40	1.51
5	D	201	ASN	CB-CG	-6.21	1.36	1.51
8	G	218	ILE	CB-CG2	-6.21	1.33	1.52
5	C	201	ASN	CB-CG	-6.21	1.36	1.51
5	D	208	GLU	CG-CD	-6.20	1.42	1.51
1	1	93	DT	C4-O4	-6.20	1.17	1.23
3	A	497	VAL	CB-CG2	-6.20	1.39	1.52
7	F	38	ARG	CG-CD	-6.20	1.36	1.51
4	B	323	ILE	CB-CG2	-6.20	1.33	1.52
1	1	119	DA	C5-C4	-6.20	1.34	1.38
8	G	204	TYR	CZ-OH	-6.20	1.27	1.37
3	A	990	ILE	CB-CG2	-6.20	1.33	1.52
6	E	419	LEU	CG-CD2	-6.20	1.28	1.51
1	1	109	DG	N9-C8	-6.19	1.33	1.37
5	C	98	ARG	CB-CG	-6.19	1.35	1.52
5	D	98	ARG	CB-CG	-6.19	1.35	1.52
1	1	107	DG	P-O5'	-6.19	1.53	1.59
2	2	32	DA	C8-N7	-6.19	1.27	1.31
3	A	609	ARG	CB-CG	-6.19	1.35	1.52
3	A	691	MET	CG-SD	-6.19	1.65	1.81
5	D	42	ARG	CB-CG	-6.18	1.35	1.52
1	1	103	DA	C4'-C3'	-6.18	1.46	1.52
8	G	88	GLU	CD-OE2	-6.18	1.18	1.25
6	E	116	TRP	CZ3-CH2	-6.18	1.30	1.40
9	Y	98	VAL	CB-CG2	-6.17	1.39	1.52
3	A	49	GLU	CB-CG	-6.17	1.40	1.52
1	1	74	DT	C4-O4	-6.17	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	161	TYR	CE2-CZ	-6.17	1.30	1.38
1	1	118	DG	C2'-C1'	-6.17	1.46	1.52
3	A	572	PRO	N-CD	-6.17	1.39	1.47
4	B	1120	PHE	CD2-CE2	-6.17	1.26	1.39
6	E	305	MET	CG-SD	-6.17	1.65	1.81
6	E	494	SER	CA-CB	-6.17	1.43	1.52
5	C	174	ARG	CG-CD	6.16	1.67	1.51
5	D	174	ARG	CG-CD	6.16	1.67	1.51
3	A	393	LEU	CG-CD2	-6.16	1.29	1.51
2	2	31	DA	C4'-C3'	-6.15	1.46	1.52
5	C	221	PHE	CG-CD1	-6.15	1.29	1.38
1	1	121	DG	C5-C4	-6.15	1.34	1.38
3	A	792	PHE	CB-CG	-6.15	1.40	1.51
4	B	237	THR	CB-CG2	-6.15	1.32	1.52
3	A	432	PRO	CB-CG	-6.15	1.19	1.50
6	E	427	PRO	N-CD	-6.14	1.39	1.47
2	2	36	DT	C2'-C1'	-6.14	1.46	1.52
6	E	383	LEU	CG-CD1	-6.14	1.29	1.51
4	B	1241	ILE	CB-CG1	-6.13	1.36	1.54
3	A	548	ASP	CA-CB	-6.13	1.40	1.53
4	B	837	SER	CA-CB	-6.13	1.43	1.52
4	B	1016	GLU	CG-CD	-6.13	1.42	1.51
6	E	374	GLY	C-N	-6.13	1.20	1.34
9	X	39	ASP	C-N	6.13	1.45	1.34
6	E	346	ARG	CG-CD	-6.12	1.36	1.51
1	1	105	DG	C5-C6	-6.12	1.36	1.42
7	F	34	GLN	CA-CB	-6.12	1.40	1.53
3	A	515	GLU	CA-CB	-6.12	1.40	1.53
5	D	170	PHE	CD1-CE1	-6.12	1.27	1.39
5	D	126	TYR	CE1-CZ	-6.11	1.30	1.38
4	B	197	THR	CB-CG2	-6.11	1.32	1.52
5	D	126	TYR	CG-CD2	-6.11	1.31	1.39
2	2	51	DT	C2'-C1'	-6.10	1.46	1.52
4	B	36	LEU	CG-CD1	-6.10	1.29	1.51
6	E	313	LEU	CG-CD1	-6.10	1.29	1.51
3	A	562	GLN	CG-CD	-6.10	1.37	1.51
6	E	35	VAL	CB-CG2	-6.10	1.40	1.52
8	G	287	GLU	CA-CB	-6.10	1.40	1.53
4	B	1120	PHE	CG-CD1	-6.09	1.29	1.38
2	2	29	DA	C1'-N9	-6.09	1.38	1.47
3	A	456	TYR	CG-CD2	-6.09	1.31	1.39
5	D	65	PHE	CB-CG	-6.09	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	199	TRP	CD2-CE3	-6.09	1.31	1.40
3	A	1040	VAL	CA-CB	-6.09	1.42	1.54
6	E	344	ARG	CB-CG	-6.09	1.36	1.52
3	A	718	HIS	CA-CB	-6.08	1.40	1.53
1	1	93	DT	C4'-C3'	-6.08	1.46	1.52
1	1	109	DG	C3'-O3'	-6.08	1.36	1.44
3	A	79	TYR	CD1-CE1	-6.08	1.30	1.39
5	C	138	MET	CG-SD	-6.08	1.65	1.81
5	C	170	PHE	CD1-CE1	-6.08	1.27	1.39
6	E	386	PRO	CB-CG	-6.08	1.19	1.50
3	A	956	LYS	CB-CG	-6.08	1.36	1.52
3	A	427	TYR	CD1-CE1	-6.08	1.30	1.39
3	A	1078	GLN	CA-CB	-6.08	1.40	1.53
3	A	902	LEU	CG-CD2	-6.07	1.29	1.51
5	D	199	TRP	CD2-CE3	-6.07	1.31	1.40
1	1	80	DA	C2-N3	-6.07	1.28	1.33
3	A	386	PHE	CG-CD1	-6.07	1.29	1.38
5	D	138	MET	CG-SD	-6.07	1.65	1.81
6	E	247	THR	CB-CG2	-6.06	1.32	1.52
1	1	118	DG	C1'-N9	-6.05	1.38	1.47
5	C	65	PHE	CB-CG	-6.05	1.41	1.51
4	B	199	ARG	CG-CD	-6.05	1.36	1.51
3	A	446	SER	CA-CB	-6.05	1.43	1.52
2	2	4	DG	C6-N1	-6.04	1.35	1.39
4	B	34	ASP	CA-CB	-6.04	1.40	1.53
7	F	28	ARG	CB-CG	-6.04	1.36	1.52
2	2	31	DA	O5'-C5'	-6.04	1.27	1.42
6	E	256	LEU	CG-CD1	-6.04	1.29	1.51
1	1	77	DA	C3'-C2'	-6.04	1.45	1.52
4	B	1148	MET	CB-CG	-6.04	1.32	1.51
1	1	102	DA	C6-N6	-6.03	1.29	1.33
4	B	1019	GLU	CG-CD	-6.03	1.43	1.51
1	1	108	DA	C1'-N9	-6.03	1.38	1.47
2	2	36	DT	O4'-C1'	-6.03	1.35	1.42
4	B	1243	ARG	CB-CG	-6.03	1.36	1.52
2	2	38	DT	C5-C7	-6.02	1.46	1.50
4	B	457	GLU	CD-OE2	-6.02	1.19	1.25
4	B	277	VAL	CB-CG1	-6.02	1.40	1.52
4	B	1128	VAL	CB-CG2	-6.02	1.40	1.52
3	A	397	THR	CA-CB	-6.02	1.37	1.53
4	B	39	LEU	CG-CD1	-6.02	1.29	1.51
6	E	374	GLY	CA-C	-6.02	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	107	DG	C4'-C3'	-6.01	1.46	1.52
3	A	674	SER	CB-OG	-6.01	1.34	1.42
3	A	149	TYR	CE1-CZ	-6.01	1.30	1.38
3	A	931	ILE	CB-CG2	-6.01	1.34	1.52
2	2	7	DT	N3-C4	-6.01	1.33	1.38
2	2	12	DG	N7-C5	-6.01	1.35	1.39
6	E	576	VAL	CB-CG1	-6.01	1.40	1.52
6	E	545	PHE	CE1-CZ	-6.01	1.25	1.37
1	1	62	DT	C2-N3	-6.01	1.32	1.37
1	1	88	DA	C5'-C4'	-6.00	1.44	1.51
3	A	152	GLU	CG-CD	-6.00	1.43	1.51
6	E	476	HIS	CA-CB	-6.00	1.40	1.53
3	A	326	ARG	CG-CD	-6.00	1.36	1.51
1	1	80	DA	C5-C6	-6.00	1.35	1.41
6	E	481	LEU	CG-CD1	-6.00	1.29	1.51
6	E	491	MET	CB-CG	-6.00	1.32	1.51
1	1	101	DT	C5-C7	-6.00	1.46	1.50
3	A	419	VAL	CB-CG1	-6.00	1.40	1.52
2	2	8	DC	N1-C6	-5.99	1.33	1.37
3	A	637	TYR	CG-CD2	-5.99	1.31	1.39
4	B	26	THR	CB-CG2	-5.99	1.32	1.52
6	E	256	LEU	C-N	-5.99	1.20	1.34
6	E	278	ARG	CA-CB	-5.99	1.40	1.53
1	1	88	DA	C2-N3	-5.99	1.28	1.33
1	1	96	DC	C4-N4	-5.99	1.28	1.33
6	E	386	PRO	N-CD	-5.99	1.39	1.47
4	B	1019	GLU	CB-CG	-5.99	1.40	1.52
2	2	43	DG	N9-C8	-5.99	1.33	1.37
3	A	148	TYR	CD2-CE2	-5.98	1.30	1.39
1	1	88	DA	C4'-O4'	-5.98	1.39	1.45
2	2	33	DA	N1-C2	-5.98	1.28	1.34
3	A	402	LEU	CG-CD1	-5.98	1.29	1.51
4	B	1208	ILE	CB-CG2	-5.98	1.34	1.52
1	1	118	DG	C3'-O3'	-5.97	1.36	1.44
2	2	67	DA	N9-C8	-5.97	1.32	1.37
2	2	57	DT	C5-C7	-5.97	1.46	1.50
6	E	246	MET	CB-CG	-5.97	1.32	1.51
4	B	89	GLU	CG-CD	-5.97	1.43	1.51
4	B	32	MET	CG-SD	-5.96	1.65	1.81
3	A	272	VAL	CB-CG2	-5.96	1.40	1.52
2	2	47	DT	C3'-O3'	-5.96	1.36	1.44
3	A	980	LEU	CG-CD2	-5.96	1.29	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	59	DG	C2-N3	-5.96	1.27	1.32
2	2	42	DT	C2-O2	-5.96	1.17	1.22
2	2	66	DA	C4'-O4'	-5.96	1.39	1.45
2	2	35	DA	O4'-C1'	-5.95	1.35	1.42
1	1	103	DA	C5'-C4'	-5.95	1.44	1.51
1	1	104	DT	C5'-C4'	-5.95	1.44	1.51
2	2	59	DG	C6-N1	-5.95	1.35	1.39
6	E	345	PHE	CD1-CE1	-5.95	1.27	1.39
8	G	198	PHE	CD2-CE2	-5.95	1.27	1.39
5	D	90	TYR	CE2-CZ	-5.95	1.30	1.38
1	1	121	DG	C2-N3	-5.94	1.27	1.32
9	X	211	THR	CA-CB	-5.94	1.38	1.53
6	E	429	MET	CB-CG	-5.94	1.32	1.51
3	A	884	LEU	CG-CD1	-5.93	1.29	1.51
3	A	453	VAL	CA-CB	-5.93	1.42	1.54
3	A	115	PHE	CG-CD1	-5.93	1.29	1.38
3	A	267	TYR	CG-CD1	-5.92	1.31	1.39
5	D	218	VAL	CB-CG2	-5.92	1.40	1.52
6	E	546	GLN	CG-CD	-5.92	1.37	1.51
2	2	42	DT	C5'-C4'	-5.92	1.44	1.51
2	2	51	DT	C5'-C4'	-5.92	1.44	1.51
3	A	25	PHE	CG-CD1	-5.92	1.29	1.38
5	D	148	TYR	CD1-CE1	-5.92	1.30	1.39
1	1	104	DT	C5-C6	-5.92	1.30	1.34
2	2	48	DT	C4-C5	-5.92	1.39	1.45
3	A	396	LEU	CG-CD2	-5.91	1.29	1.51
4	B	1152	VAL	CB-CG1	-5.91	1.40	1.52
9	Y	211	THR	CA-CB	-5.91	1.38	1.53
3	A	938	GLU	CD-OE2	-5.91	1.19	1.25
4	B	163	PHE	CG-CD2	-5.91	1.29	1.38
1	1	80	DA	C5'-C4'	-5.90	1.44	1.51
3	A	640	SER	CA-CB	-5.90	1.44	1.52
1	1	116	DC	C5-C6	-5.90	1.29	1.34
4	B	242	ARG	CB-CG	-5.90	1.36	1.52
6	E	375	LEU	CG-CD1	-5.89	1.30	1.51
8	G	284	ILE	CB-CG2	-5.89	1.34	1.52
1	1	117	DG	C2-N3	-5.89	1.28	1.32
4	B	1053	GLU	CG-CD	-5.89	1.43	1.51
5	C	218	VAL	CB-CG2	-5.89	1.40	1.52
5	D	183	VAL	CB-CG1	-5.89	1.40	1.52
6	E	142	PHE	CE2-CZ	-5.89	1.26	1.37
3	A	905	TRP	CD2-CE2	-5.89	1.34	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	40	DC	N3-C4	-5.88	1.29	1.33
3	A	1087	HIS	CA-CB	-5.88	1.41	1.53
6	E	423	ILE	CB-CG1	-5.88	1.37	1.54
1	1	76	DC	P-O5'	-5.88	1.53	1.59
8	G	228	THR	CB-CG2	-5.88	1.32	1.52
1	1	58	DA	C5-C4	-5.88	1.34	1.38
3	A	959	VAL	C-N	-5.88	1.20	1.34
1	1	81	DT	N3-C4	-5.88	1.33	1.38
3	A	333	GLN	CG-CD	-5.88	1.37	1.51
5	D	126	TYR	CG-CD1	-5.88	1.31	1.39
6	E	425	GLY	C-N	-5.88	1.20	1.34
3	A	456	TYR	CG-CD1	-5.88	1.31	1.39
2	2	34	DA	C3'-O3'	-5.87	1.36	1.44
5	C	170	PHE	CE2-CZ	-5.87	1.26	1.37
4	B	177	TYR	CE2-CZ	-5.87	1.30	1.38
7	F	60	ARG	CB-CG	-5.87	1.36	1.52
1	1	98	DG	O4'-C1'	-5.86	1.35	1.42
6	E	588	TYR	CG-CD2	-5.86	1.31	1.39
3	A	811	LYS	CB-CG	-5.86	1.36	1.52
6	E	345	PHE	CD2-CE2	-5.86	1.27	1.39
1	1	82	DT	C2-O2	-5.86	1.17	1.22
1	1	109	DG	N1-C2	-5.86	1.33	1.37
3	A	689	ALA	CA-CB	-5.85	1.40	1.52
3	A	981	LYS	CE-NZ	-5.85	1.34	1.49
2	2	6	DA	C3'-O3'	-5.85	1.36	1.44
2	2	52	DA	N3-C4	-5.85	1.31	1.34
3	A	1039	THR	CB-CG2	-5.85	1.33	1.52
5	D	170	PHE	CE2-CZ	-5.85	1.26	1.37
3	A	337	ARG	CB-CG	-5.85	1.36	1.52
3	A	555	MET	CB-CG	-5.85	1.32	1.51
1	1	61	DT	C2-O2	-5.84	1.17	1.22
3	A	688	VAL	CA-CB	-5.84	1.42	1.54
6	E	231	ILE	CB-CG2	-5.84	1.34	1.52
6	E	448	LEU	CG-CD1	-5.84	1.30	1.51
5	C	199	TRP	CD2-CE2	-5.84	1.34	1.41
6	E	489	LEU	CG-CD1	-5.84	1.30	1.51
6	E	490	LEU	CG-CD1	-5.84	1.30	1.51
3	A	25	PHE	CE2-CZ	-5.84	1.26	1.37
3	A	882	ILE	CA-CB	-5.84	1.41	1.54
3	A	960	TYR	CZ-OH	-5.84	1.27	1.37
5	D	81	ARG	CA-C	-5.84	1.37	1.52
6	E	492	LEU	CG-CD2	-5.83	1.30	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	180	ARG	CG-CD	-5.83	1.37	1.51
4	B	21	PHE	CE1-CZ	-5.83	1.26	1.37
1	1	95	DT	O4'-C1'	-5.83	1.35	1.42
5	C	41	ARG	CG-CD	-5.83	1.37	1.51
6	E	574	VAL	CB-CG2	-5.83	1.40	1.52
6	E	275	LEU	CG-CD2	-5.82	1.30	1.51
5	D	41	ARG	CG-CD	-5.82	1.37	1.51
8	G	92	ILE	CB-CG2	-5.82	1.34	1.52
5	C	81	ARG	CA-C	-5.82	1.37	1.52
6	E	254	PRO	N-CD	-5.82	1.39	1.47
6	E	489	LEU	CG-CD2	-5.82	1.30	1.51
4	B	80	TYR	CD1-CE1	-5.82	1.30	1.39
3	A	440	ASN	CB-CG	-5.81	1.37	1.51
1	1	121	DG	C6-N1	-5.81	1.35	1.39
2	2	38	DT	O4'-C1'	-5.81	1.35	1.42
2	2	68	DT	C5-C7	-5.81	1.46	1.50
4	B	683	GLU	CB-CG	-5.81	1.41	1.52
5	C	86	ILE	CB-CG2	-5.81	1.34	1.52
4	B	273	GLU	CG-CD	-5.81	1.43	1.51
4	B	1115	GLN	CG-CD	-5.81	1.37	1.51
3	A	881	ASP	CA-CB	-5.80	1.41	1.53
4	B	177	TYR	CA-CB	-5.80	1.41	1.53
3	A	740	ILE	C-N	-5.80	1.23	1.34
1	1	111	DT	C2-N3	-5.80	1.33	1.37
8	G	118	GLU	CB-CG	-5.80	1.41	1.52
3	A	591	VAL	CB-CG2	-5.80	1.40	1.52
8	G	216	GLN	CG-CD	-5.80	1.37	1.51
1	1	91	DT	C3'-C2'	-5.80	1.45	1.52
1	1	121	DG	C8-N7	-5.79	1.27	1.30
4	B	481	TRP	CD2-CE2	-5.79	1.34	1.41
8	G	198	PHE	CB-CG	-5.79	1.41	1.51
3	A	884	LEU	CG-CD2	-5.79	1.30	1.51
5	D	86	ILE	CB-CG2	-5.79	1.34	1.52
1	1	119	DA	C1'-N9	-5.78	1.39	1.47
2	2	58	DA	C2'-C1'	-5.78	1.46	1.52
3	A	50	LEU	C-N	-5.78	1.20	1.34
6	E	518	TYR	CA-CB	-5.78	1.41	1.53
4	B	103	GLU	CG-CD	-5.78	1.43	1.51
6	E	249	ILE	CB-CG1	-5.78	1.37	1.54
4	B	32	MET	CB-CG	-5.78	1.32	1.51
5	C	48	LEU	CG-CD1	-5.78	1.30	1.51
3	A	25	PHE	CD2-CE2	-5.78	1.27	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	169	ARG	CB-CG	-5.78	1.36	1.52
4	B	1132	GLN	CB-CG	-5.78	1.36	1.52
2	2	49	DT	C2-O2	-5.77	1.17	1.22
2	2	12	DG	C5-C6	-5.77	1.36	1.42
5	D	48	LEU	CG-CD1	-5.77	1.30	1.51
2	2	53	DT	C2-O2	-5.77	1.17	1.22
3	A	546	GLU	CB-CG	-5.77	1.41	1.52
3	A	601	VAL	CB-CG2	-5.77	1.40	1.52
3	A	817	VAL	CB-CG1	-5.77	1.40	1.52
8	G	192	ILE	CB-CG2	-5.76	1.34	1.52
3	A	184	TRP	CE3-CZ3	-5.76	1.28	1.38
6	E	359	ARG	CG-CD	-5.76	1.37	1.51
2	2	33	DA	O4'-C1'	-5.76	1.35	1.42
2	2	52	DA	C4'-O4'	-5.76	1.39	1.45
2	2	57	DT	C2'-C1'	-5.76	1.46	1.52
3	A	565	PRO	CB-CG	-5.76	1.21	1.50
6	E	509	PRO	CB-CG	-5.75	1.21	1.50
3	A	598	VAL	CB-CG2	-5.75	1.40	1.52
5	C	117	GLU	CB-CG	-5.75	1.41	1.52
2	2	6	DA	N9-C4	-5.75	1.34	1.37
3	A	572	PRO	CG-CD	-5.75	1.31	1.50
1	1	58	DA	C4'-C3'	-5.75	1.46	1.52
3	A	1052	LEU	CG-CD2	-5.75	1.30	1.51
4	B	1053	GLU	CD-OE2	-5.75	1.19	1.25
5	D	199	TRP	CD2-CE2	-5.74	1.34	1.41
4	B	1013	ARG	CB-CG	-5.74	1.37	1.52
5	C	221	PHE	CE2-CZ	-5.74	1.26	1.37
3	A	680	LEU	CG-CD2	-5.74	1.30	1.51
3	A	561	ARG	CA-C	-5.74	1.38	1.52
4	B	23	HIS	CA-CB	-5.73	1.41	1.53
6	E	252	ILE	CB-CG1	-5.73	1.38	1.54
1	1	83	DC	C4-N4	-5.73	1.28	1.33
1	1	97	DT	C4'-C3'	-5.73	1.46	1.52
1	1	99	DT	C5'-C4'	-5.73	1.45	1.51
4	B	80	TYR	CD2-CE2	-5.73	1.30	1.39
5	D	144	ARG	CB-CG	-5.73	1.37	1.52
8	G	139	LEU	C-N	-5.72	1.23	1.34
8	G	132	GLU	CG-CD	-5.72	1.43	1.51
3	A	1042	SER	CB-OG	-5.72	1.34	1.42
1	1	121	DG	C5-C6	-5.71	1.36	1.42
2	2	34	DA	C6-N6	-5.71	1.29	1.33
3	A	974	ILE	CB-CG1	-5.71	1.38	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	266	ASP	CB-CG	-5.71	1.39	1.51
4	B	1153	ARG	CG-CD	-5.71	1.37	1.51
3	A	149	TYR	CG-CD1	-5.71	1.31	1.39
2	2	57	DT	O4'-C1'	-5.70	1.35	1.42
4	B	1238	ASN	CA-CB	-5.70	1.38	1.53
3	A	435	THR	CB-CG2	-5.70	1.33	1.52
2	2	39	DT	C5'-C4'	-5.70	1.45	1.51
2	2	49	DT	C3'-C2'	-5.69	1.45	1.52
3	A	313	SER	CA-CB	-5.69	1.44	1.52
4	B	89	GLU	CB-CG	-5.69	1.41	1.52
4	B	252	LYS	CB-CG	-5.69	1.37	1.52
6	E	253	PRO	N-CD	-5.69	1.39	1.47
6	E	375	LEU	CG-CD2	-5.69	1.30	1.51
6	E	498	LEU	CG-CD2	-5.69	1.30	1.51
1	1	95	DT	C4'-C3'	-5.69	1.46	1.52
3	A	494	ASP	CB-CG	-5.69	1.39	1.51
3	A	982	LEU	CG-CD2	-5.69	1.30	1.51
3	A	1099	ASP	CB-CG	-5.68	1.39	1.51
3	A	309	TYR	CB-CG	-5.68	1.43	1.51
4	B	329	GLN	CB-CG	-5.68	1.37	1.52
5	C	200	THR	CB-CG2	-5.68	1.33	1.52
5	D	200	THR	CB-CG2	-5.68	1.33	1.52
6	E	255	ASP	CA-CB	-5.68	1.41	1.53
6	E	387	PHE	CA-CB	-5.68	1.41	1.53
3	A	243	ARG	CG-CD	-5.67	1.37	1.51
2	2	59	DG	O4'-C1'	-5.67	1.35	1.42
3	A	685	ASN	CA-CB	-5.67	1.38	1.53
3	A	430	ILE	CB-CG2	-5.67	1.35	1.52
3	A	772	LYS	CA-CB	-5.67	1.41	1.53
3	A	736	ILE	CB-CG2	-5.67	1.35	1.52
3	A	846	ILE	CB-CG1	-5.66	1.38	1.54
6	E	125	ILE	CB-CG2	-5.66	1.35	1.52
3	A	96	TYR	CE2-CZ	-5.66	1.31	1.38
3	A	1038	LEU	CG-CD1	-5.66	1.30	1.51
4	B	197	THR	CA-CB	-5.65	1.38	1.53
4	B	631	TRP	CG-CD2	-5.65	1.34	1.43
3	A	1034	LEU	CG-CD1	-5.65	1.30	1.51
3	A	364	LEU	CG-CD2	-5.64	1.30	1.51
5	C	140	PHE	CG-CD1	-5.64	1.30	1.38
5	D	140	PHE	CD1-CE1	-5.64	1.27	1.39
2	2	40	DC	O4'-C1'	-5.64	1.35	1.42
1	1	117	DG	N9-C8	-5.64	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	77	DA	C4'-O4'	-5.63	1.39	1.45
5	D	140	PHE	CG-CD1	-5.63	1.30	1.38
1	1	105	DG	C1'-N9	-5.63	1.39	1.47
4	B	176	SER	CA-CB	-5.63	1.44	1.52
3	A	845	LYS	CB-CG	-5.63	1.37	1.52
3	A	897	GLN	CA-CB	-5.63	1.41	1.53
6	E	420	GLU	CG-CD	-5.63	1.43	1.51
6	E	478	PRO	N-CD	-5.63	1.40	1.47
4	B	39	LEU	CG-CD2	-5.63	1.31	1.51
6	E	254	PRO	CB-CG	-5.63	1.21	1.50
3	A	993	ARG	CB-CG	-5.63	1.37	1.52
5	C	179	SER	CA-CB	-5.62	1.44	1.52
8	G	114	GLU	CG-CD	-5.62	1.43	1.51
3	A	606	ILE	CB-CG2	-5.62	1.35	1.52
1	1	96	DC	C2-O2	-5.61	1.19	1.24
4	B	1014	ILE	CB-CG2	-5.61	1.35	1.52
5	D	179	SER	CA-CB	-5.61	1.44	1.52
3	A	978	TYR	CZ-OH	-5.61	1.28	1.37
5	C	140	PHE	CD1-CE1	-5.60	1.28	1.39
4	B	265	SER	CA-CB	-5.60	1.44	1.52
1	1	119	DA	C4'-O4'	-5.60	1.39	1.45
5	C	54	THR	CB-CG2	-5.60	1.33	1.52
2	2	44	DA	C8-N7	-5.59	1.27	1.31
4	B	211	GLU	CA-CB	-5.59	1.41	1.53
3	A	759	ILE	CB-CG2	-5.59	1.35	1.52
3	A	963	ARG	C-N	-5.59	1.21	1.34
6	E	276	TYR	CA-CB	-5.59	1.41	1.53
4	B	103	GLU	CB-CG	-5.59	1.41	1.52
2	2	61	DT	C5-C7	-5.59	1.46	1.50
3	A	685	ASN	CG-OD1	-5.59	1.11	1.24
1	1	75	DA	N9-C8	-5.58	1.33	1.37
3	A	261	PHE	CE1-CZ	-5.58	1.26	1.37
3	A	725	GLU	CA-CB	-5.58	1.41	1.53
4	B	1015	GLU	CB-CG	-5.57	1.41	1.52
6	E	305	MET	CA-CB	-5.57	1.41	1.53
2	2	9	DC	N3-C4	-5.57	1.30	1.33
3	A	667	GLN	CG-CD	-5.57	1.38	1.51
5	D	54	THR	CB-CG2	-5.57	1.33	1.52
4	B	458	VAL	CB-CG2	-5.57	1.41	1.52
3	A	432	PRO	CA-C	-5.57	1.41	1.52
3	A	571	ARG	CG-CD	-5.57	1.38	1.51
3	A	47	ILE	CB-CG2	-5.56	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	2	45	DA	C4'-O4'	-5.56	1.39	1.45
3	A	1068	GLU	CG-CD	-5.56	1.43	1.51
8	G	198	PHE	CE1-CZ	-5.56	1.26	1.37
3	A	420	ARG	CG-CD	-5.56	1.38	1.51
3	A	427	TYR	CG-CD2	-5.56	1.31	1.39
6	E	484	GLN	CG-CD	-5.56	1.38	1.51
6	E	510	SER	CA-CB	-5.56	1.44	1.52
6	E	584	ARG	CB-CG	-5.56	1.37	1.52
3	A	586	SER	CA-CB	-5.56	1.44	1.52
3	A	599	VAL	CB-CG1	-5.55	1.41	1.52
3	A	813	ARG	CG-CD	-5.55	1.38	1.51
4	B	1254	TYR	CB-CG	-5.55	1.43	1.51
1	1	72	DT	C5-C7	-5.55	1.46	1.50
4	B	196	LEU	CG-CD1	-5.55	1.31	1.51
2	2	59	DG	C5-C4	-5.55	1.34	1.38
3	A	40	TRP	CE2-CZ2	-5.55	1.30	1.39
3	A	977	ALA	CA-CB	-5.55	1.40	1.52
6	E	499	SER	N-CA	-5.55	1.35	1.46
1	1	84	DA	C6-N6	-5.54	1.29	1.33
2	2	66	DA	C5-C4	-5.54	1.34	1.38
3	A	1074	MET	CB-CG	-5.54	1.33	1.51
3	A	392	PRO	N-CD	-5.54	1.40	1.47
4	B	927	GLU	CD-OE2	-5.54	1.19	1.25
2	2	52	DA	C2'-C1'	-5.54	1.46	1.52
4	B	46	ARG	CA-CB	-5.54	1.41	1.53
3	A	324	ARG	CA-CB	-5.54	1.41	1.53
8	G	188	SER	CA-CB	-5.54	1.44	1.52
3	A	52	SER	CA-CB	-5.53	1.44	1.52
4	B	195	TYR	CE1-CZ	-5.53	1.31	1.38
8	G	87	GLN	CB-CG	-5.53	1.37	1.52
1	1	104	DT	C3'-C2'	-5.53	1.45	1.52
1	1	84	DA	C6-N1	-5.53	1.31	1.35
3	A	545	LEU	CG-CD2	-5.53	1.31	1.51
4	B	519	HIS	C-O	-5.53	1.12	1.23
1	1	121	DG	C3'-O3'	-5.53	1.36	1.44
3	A	112	GLN	CB-CG	-5.53	1.37	1.52
3	A	573	LEU	CG-CD2	-5.52	1.31	1.51
6	E	547	GLN	CG-CD	-5.52	1.38	1.51
2	2	31	DA	C6-N6	-5.52	1.29	1.33
4	B	683	GLU	CG-CD	-5.52	1.43	1.51
9	Y	99	GLU	CB-CG	-5.52	1.41	1.52
3	A	446	SER	CB-OG	-5.52	1.35	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	129	ILE	CB-CG1	-5.52	1.38	1.54
3	A	842	GLN	CA-CB	-5.52	1.41	1.53
2	2	8	DC	C2-O2	-5.52	1.19	1.24
9	X	162	VAL	CB-CG2	-5.52	1.41	1.52
1	1	99	DT	C2-O2	-5.51	1.18	1.22
6	E	102	ARG	CB-CG	-5.51	1.37	1.52
4	B	77	GLU	CB-CG	-5.51	1.41	1.52
8	G	212	TRP	CG-CD2	-5.51	1.34	1.43
3	A	661	GLU	CG-CD	-5.51	1.43	1.51
4	B	250	HIS	C-N	-5.51	1.23	1.34
6	E	565	GLU	CD-OE1	-5.51	1.19	1.25
5	D	42	ARG	CG-CD	-5.50	1.38	1.51
1	1	111	DT	N3-C4	-5.50	1.34	1.38
3	A	704	ILE	CB-CG1	-5.50	1.38	1.54
5	C	42	ARG	CG-CD	-5.50	1.38	1.51
3	A	676	GLU	CD-OE2	-5.50	1.19	1.25
7	F	34	GLN	CG-CD	-5.50	1.38	1.51
2	2	67	DA	C4'-O4'	-5.50	1.39	1.45
4	B	1107	TYR	CD1-CE1	-5.50	1.31	1.39
5	C	210	LEU	CG-CD2	-5.50	1.31	1.51
5	D	210	LEU	CG-CD2	-5.50	1.31	1.51
6	E	308	GLU	CA-CB	-5.50	1.41	1.53
6	E	376	PRO	CB-CG	-5.49	1.22	1.50
1	1	84	DA	N1-C2	-5.49	1.29	1.34
3	A	801	ASP	CB-CG	-5.49	1.40	1.51
3	A	868	ILE	CA-CB	-5.49	1.42	1.54
6	E	361	VAL	CA-CB	-5.49	1.43	1.54
1	1	75	DA	N3-C4	-5.49	1.31	1.34
3	A	936	LEU	CG-CD1	-5.49	1.31	1.51
3	A	1079	SER	CA-CB	-5.49	1.44	1.52
6	E	61	ARG	C-O	-5.49	1.12	1.23
1	1	116	DC	N1-C6	-5.48	1.33	1.37
6	E	362	ILE	CA-CB	-5.48	1.42	1.54
1	1	72	DT	C2-O2	-5.48	1.18	1.22
4	B	1151	LYS	CA-CB	-5.48	1.41	1.53
6	E	61	ARG	N-CA	-5.48	1.35	1.46
2	2	52	DA	C8-N7	-5.48	1.27	1.31
5	D	56	VAL	CB-CG2	-5.48	1.41	1.52
3	A	608	VAL	CB-CG2	-5.48	1.41	1.52
3	A	691	MET	CA-CB	-5.48	1.42	1.53
8	G	227	ARG	CB-CG	-5.48	1.37	1.52
3	A	737	THR	C-N	-5.47	1.21	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	Y	162	VAL	CB-CG2	-5.47	1.41	1.52
2	2	60	DC	C1'-N1	-5.47	1.39	1.47
9	X	99	GLU	CB-CG	-5.47	1.41	1.52
2	2	68	DT	C2-N3	-5.47	1.33	1.37
3	A	427	TYR	CG-CD1	-5.47	1.32	1.39
5	C	196	LEU	CG-CD1	-5.47	1.31	1.51
1	1	89	DA	N1-C2	-5.46	1.29	1.34
5	D	40	LEU	CG-CD1	-5.46	1.31	1.51
2	2	50	DG	P-O5'	-5.46	1.54	1.59
2	2	34	DA	O4'-C1'	-5.46	1.35	1.42
2	2	49	DT	P-O5'	-5.46	1.54	1.59
3	A	263	ASP	CB-CG	-5.46	1.40	1.51
5	C	40	LEU	CG-CD1	-5.46	1.31	1.51
6	E	421	GLU	CG-CD	-5.46	1.43	1.51
3	A	664	VAL	CB-CG1	-5.46	1.41	1.52
2	2	46	DT	N3-C4	-5.46	1.34	1.38
2	2	38	DT	C3'-O3'	-5.45	1.36	1.44
2	2	42	DT	N1-C6	-5.45	1.34	1.38
5	D	196	LEU	CG-CD1	-5.45	1.31	1.51
2	2	5	DC	N1-C2	-5.45	1.34	1.40
1	1	59	DT	C1'-N1	-5.45	1.39	1.47
3	A	309	TYR	CD1-CE1	-5.45	1.31	1.39
6	E	318	ARG	CB-CG	-5.45	1.37	1.52
2	2	66	DA	C2'-C1'	-5.45	1.46	1.52
4	B	1144	ILE	CB-CG1	-5.45	1.38	1.54
1	1	58	DA	N7-C5	-5.44	1.35	1.39
3	A	148	TYR	CD1-CE1	-5.44	1.31	1.39
6	E	197	LEU	CG-CD1	-5.44	1.31	1.51
8	G	185	GLN	CG-CD	-5.44	1.38	1.51
2	2	45	DA	N1-C2	-5.44	1.29	1.34
3	A	680	LEU	CG-CD1	-5.43	1.31	1.51
3	A	25	PHE	CG-CD2	-5.42	1.30	1.38
4	B	177	TYR	CG-CD2	-5.42	1.32	1.39
6	E	105	TYR	CA-CB	-5.42	1.42	1.53
3	A	422	ILE	CB-CG2	-5.42	1.36	1.52
3	A	395	GLU	CA-CB	-5.41	1.42	1.53
4	B	163	PHE	CG-CD1	-5.41	1.30	1.38
1	1	101	DT	P-O5'	-5.41	1.54	1.59
8	G	185	GLN	CA-CB	-5.41	1.42	1.53
3	A	844	ARG	CA-CB	-5.41	1.42	1.53
4	B	200	LEU	CG-CD2	-5.41	1.31	1.51
4	B	198	ARG	CA-CB	-5.41	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	81	VAL	CB-CG1	-5.41	1.41	1.52
5	C	56	VAL	CB-CG2	-5.41	1.41	1.52
3	A	1041	LYS	CD-CE	-5.40	1.37	1.51
3	A	1067	PRO	CB-CG	-5.40	1.23	1.50
1	1	62	DT	N3-C4	-5.40	1.34	1.38
3	A	76	GLU	CG-CD	-5.40	1.43	1.51
5	D	72	ARG	CB-CG	-5.40	1.38	1.52
3	A	513	ARG	CG-CD	-5.40	1.38	1.51
4	B	59	PRO	N-CA	-5.40	1.38	1.47
5	C	168	SER	CA-CB	-5.40	1.44	1.52
3	A	81	VAL	CB-CG2	-5.40	1.41	1.52
3	A	762	TRP	CD2-CE2	-5.39	1.34	1.41
2	2	34	DA	C5-C6	-5.39	1.36	1.41
1	1	110	DC	C5-C6	-5.38	1.30	1.34
6	E	482	GLU	CD-OE2	-5.38	1.19	1.25
6	E	614	ILE	CB-CG1	-5.38	1.39	1.54
1	1	87	DA	C4'-C3'	-5.38	1.47	1.52
3	A	584	ARG	CB-CG	-5.38	1.38	1.52
3	A	267	TYR	CE2-CZ	-5.38	1.31	1.38
3	A	384	SER	CA-CB	-5.38	1.44	1.52
1	1	107	DG	O4'-C1'	-5.38	1.35	1.42
3	A	447	LEU	CG-CD2	-5.38	1.31	1.51
3	A	637	TYR	CG-CD1	-5.38	1.32	1.39
5	D	170	PHE	CG-CD2	-5.38	1.30	1.38
1	1	93	DT	P-O5'	-5.38	1.54	1.59
5	C	72	ARG	CB-CG	-5.38	1.38	1.52
3	A	1032	TYR	CA-CB	-5.37	1.42	1.53
2	2	43	DG	N1-C2	-5.37	1.33	1.37
4	B	37	LYS	CD-CE	-5.37	1.37	1.51
2	2	43	DG	C6-N1	-5.37	1.35	1.39
1	1	79	DA	O5'-C5'	-5.37	1.28	1.42
5	C	170	PHE	CG-CD2	-5.37	1.30	1.38
3	A	803	SER	CA-CB	-5.37	1.45	1.52
2	2	30	DG	P-O5'	-5.36	1.54	1.59
2	2	37	DT	P-O5'	-5.36	1.54	1.59
3	A	427	TYR	CE1-CZ	-5.36	1.31	1.38
3	A	675	THR	CA-CB	-5.36	1.39	1.53
5	D	168	SER	CA-CB	-5.36	1.45	1.52
3	A	957	ILE	CG1-CD1	-5.36	1.13	1.50
6	E	117	TYR	CZ-OH	-5.36	1.28	1.37
4	B	168	THR	CB-CG2	-5.36	1.34	1.52
6	E	384	PHE	CA-CB	-5.35	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	211	THR	CB-CG2	-5.35	1.34	1.52
2	2	45	DA	C2'-C1'	-5.35	1.46	1.52
3	A	643	GLN	CG-CD	-5.35	1.38	1.51
6	E	619	ILE	CB-CG1	-5.35	1.39	1.54
6	E	295	PRO	CG-CD	-5.35	1.32	1.50
2	2	44	DA	C5'-C4'	-5.35	1.45	1.51
3	A	957	ILE	CB-CG1	-5.35	1.39	1.54
4	B	916	VAL	CB-CG2	-5.35	1.41	1.52
2	2	33	DA	C2-N3	-5.34	1.28	1.33
6	E	612	ARG	CG-CD	-5.34	1.38	1.51
4	B	141	VAL	CB-CG1	-5.34	1.41	1.52
6	E	498	LEU	C-N	-5.34	1.21	1.34
3	A	979	MET	CG-SD	-5.34	1.67	1.81
6	E	297	ILE	CA-CB	-5.34	1.42	1.54
2	2	58	DA	C2-N3	-5.34	1.28	1.33
1	1	72	DT	C4-O4	-5.33	1.18	1.23
3	A	392	PRO	CG-CD	-5.33	1.33	1.50
5	D	90	TYR	CG-CD2	-5.33	1.32	1.39
3	A	512	TYR	CE1-CZ	-5.33	1.31	1.38
6	E	280	ILE	CB-CG1	-5.33	1.39	1.54
6	E	375	LEU	C-N	-5.33	1.24	1.34
8	G	219	THR	CB-CG2	-5.33	1.34	1.52
6	E	297	ILE	CB-CG2	-5.33	1.36	1.52
3	A	1046	GLN	CB-CG	-5.32	1.38	1.52
8	G	193	ARG	CB-CG	-5.32	1.38	1.52
4	B	16	LEU	CG-CD2	-5.32	1.32	1.51
2	2	50	DG	C4'-C3'	-5.32	1.47	1.52
4	B	684	VAL	CB-CG1	-5.32	1.41	1.52
6	E	483	SER	CB-OG	-5.32	1.35	1.42
1	1	119	DA	O4'-C1'	-5.32	1.35	1.42
2	2	43	DG	C2'-C1'	-5.32	1.47	1.52
2	2	52	DA	C6-N1	-5.32	1.31	1.35
3	A	1005	PRO	N-CD	-5.31	1.40	1.47
5	D	83	LYS	CB-CG	-5.31	1.38	1.52
1	1	100	DA	C4'-O4'	-5.31	1.39	1.45
6	E	478	PRO	CG-CD	-5.31	1.33	1.50
2	2	57	DT	C5'-C4'	-5.31	1.45	1.51
3	A	936	LEU	CG-CD2	-5.31	1.32	1.51
1	1	101	DT	C3'-C2'	-5.30	1.45	1.52
5	C	83	LYS	CB-CG	-5.30	1.38	1.52
5	D	197	GLU	CA-CB	-5.30	1.42	1.53
6	E	479	LEU	CG-CD2	-5.30	1.32	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	72	DT	P-O5'	-5.30	1.54	1.59
2	2	47	DT	C4'-C3'	-5.30	1.47	1.52
3	A	382	GLN	CG-CD	-5.29	1.38	1.51
6	E	382	GLU	CD-OE2	-5.29	1.19	1.25
3	A	1037	LEU	CG-CD2	-5.29	1.32	1.51
1	1	101	DT	N1-C2	-5.29	1.33	1.38
3	A	247	PRO	N-CA	-5.29	1.38	1.47
6	E	509	PRO	N-CD	-5.29	1.40	1.47
2	2	39	DT	O5'-C5'	-5.29	1.29	1.42
6	E	360	SER	CA-CB	-5.29	1.45	1.52
3	A	368	LYS	C-N	-5.29	1.24	1.34
6	E	545	PHE	CA-CB	-5.29	1.42	1.53
4	B	19	TRP	CD2-CE3	-5.28	1.32	1.40
6	E	513	MET	CA-CB	-5.28	1.42	1.53
5	C	197	GLU	CA-CB	-5.28	1.42	1.53
4	B	1146	ARG	CB-CG	-5.28	1.38	1.52
3	A	458	PHE	CD2-CE2	-5.28	1.28	1.39
2	2	3	DT	C4-C5	-5.28	1.40	1.45
3	A	865	ILE	CG1-CD1	-5.28	1.14	1.50
8	G	197	LYS	CB-CG	-5.28	1.38	1.52
5	D	68	VAL	CB-CG2	-5.28	1.41	1.52
3	A	994	SER	CA-CB	-5.27	1.45	1.52
6	E	345	PHE	CE2-CZ	-5.27	1.27	1.37
3	A	25	PHE	CD1-CE1	-5.27	1.28	1.39
4	B	59	PRO	C-N	-5.27	1.24	1.34
1	1	88	DA	C2'-C1'	-5.27	1.47	1.52
1	1	91	DT	C2'-C1'	-5.27	1.47	1.52
8	G	183	LEU	CG-CD2	-5.26	1.32	1.51
1	1	106	DG	P-O5'	-5.26	1.54	1.59
2	2	41	DC	N3-C4	-5.26	1.30	1.33
3	A	377	PHE	CA-CB	-5.26	1.42	1.53
3	A	502	TYR	CB-CG	-5.26	1.43	1.51
3	A	97	VAL	CB-CG1	-5.26	1.41	1.52
4	B	606	PHE	CE1-CZ	-5.26	1.27	1.37
5	C	68	VAL	CB-CG2	-5.26	1.41	1.52
4	B	1226	GLU	CD-OE2	-5.26	1.19	1.25
2	2	37	DT	O4'-C1'	-5.25	1.35	1.42
3	A	839	TYR	CA-CB	-5.25	1.42	1.53
6	E	266	ARG	CG-CD	-5.25	1.38	1.51
2	2	52	DA	C2-N3	-5.25	1.28	1.33
8	G	285	SER	CA-CB	-5.25	1.45	1.52
3	A	868	ILE	CB-CG1	-5.25	1.39	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	D	203	SER	CA-CB	-5.25	1.45	1.52
3	A	565	PRO	CG-CD	-5.25	1.33	1.50
3	A	866	LEU	CG-CD1	-5.25	1.32	1.51
2	2	4	DG	C4'-O4'	-5.25	1.39	1.45
3	A	37	SER	CA-CB	-5.24	1.45	1.52
1	1	115	DA	P-O5'	5.24	1.65	1.59
6	E	486	GLU	CG-CD	-5.24	1.44	1.51
8	G	115	ARG	CG-CD	-5.24	1.38	1.51
8	G	213	TRP	CZ3-CH2	-5.23	1.31	1.40
2	2	50	DG	C2'-C1'	-5.23	1.47	1.52
3	A	846	ILE	CG1-CD1	-5.23	1.14	1.50
3	A	943	THR	CB-CG2	-5.23	1.35	1.52
3	A	937	GLN	CG-CD	-5.23	1.39	1.51
3	A	282	ARG	CB-CG	-5.23	1.38	1.52
3	A	1048	ARG	CG-CD	-5.23	1.38	1.51
4	B	235	LEU	CG-CD2	-5.22	1.32	1.51
4	B	1016	GLU	CB-CG	-5.22	1.42	1.52
6	E	473	MET	CA-CB	-5.22	1.42	1.53
4	B	1120	PHE	CE2-CZ	-5.22	1.27	1.37
6	E	386	PRO	CG-CD	-5.22	1.33	1.50
6	E	615	TYR	CZ-OH	-5.22	1.28	1.37
5	D	170	PHE	CD2-CE2	-5.22	1.28	1.39
2	2	41	DC	C2-O2	-5.22	1.19	1.24
4	B	765	SER	CA-CB	-5.22	1.45	1.52
5	C	170	PHE	CD2-CE2	-5.22	1.28	1.39
2	2	44	DA	C1'-N9	-5.21	1.40	1.47
6	E	266	ARG	CB-CG	-5.21	1.38	1.52
3	A	690	TYR	CZ-OH	-5.21	1.28	1.37
4	B	43	TYR	CA-CB	-5.21	1.42	1.53
2	2	51	DT	O4'-C1'	-5.21	1.36	1.42
6	E	307	GLN	CA-CB	-5.21	1.42	1.53
5	C	203	SER	CA-CB	-5.20	1.45	1.52
2	2	35	DA	C4'-C3'	-5.20	1.47	1.52
3	A	403	SER	CA-CB	-5.20	1.45	1.52
3	A	546	GLU	CG-CD	-5.20	1.44	1.51
2	2	31	DA	C3'-C2'	-5.20	1.46	1.52
3	A	184	TRP	CG-CD1	-5.20	1.29	1.36
3	A	584	ARG	CG-CD	-5.19	1.39	1.51
3	A	285	VAL	CB-CG1	-5.19	1.42	1.52
3	A	289	VAL	CB-CG2	-5.19	1.42	1.52
6	E	247	THR	CA-CB	-5.19	1.39	1.53
8	G	189	LEU	CG-CD2	-5.19	1.32	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	93	DT	C4-C5	-5.19	1.40	1.45
2	2	58	DA	C6-N1	-5.19	1.31	1.35
6	E	547	GLN	CB-CG	-5.19	1.38	1.52
5	C	207	GLN	CG-CD	-5.19	1.39	1.51
4	B	165	GLU	CB-CG	-5.18	1.42	1.52
5	D	191	LYS	CB-CG	-5.18	1.38	1.52
3	A	406	GLY	C-N	-5.18	1.24	1.34
5	C	191	LYS	CB-CG	-5.18	1.38	1.52
5	D	207	GLN	CG-CD	-5.18	1.39	1.51
3	A	266	ARG	CB-CG	-5.18	1.38	1.52
3	A	337	ARG	CG-CD	-5.18	1.39	1.51
4	B	31	VAL	CA-CB	-5.18	1.43	1.54
4	B	786	GLU	CG-CD	5.18	1.59	1.51
6	E	296	GLU	CA-C	-5.18	1.39	1.52
2	2	61	DT	N1-C2	-5.17	1.33	1.38
2	2	57	DT	C2-O2	-5.17	1.18	1.22
4	B	163	PHE	CD2-CE2	-5.17	1.28	1.39
8	G	198	PHE	CG-CD2	-5.17	1.30	1.38
4	B	257	ILE	CB-CG2	-5.17	1.36	1.52
4	B	995	VAL	CB-CG1	-5.17	1.42	1.52
3	A	374	ILE	CB-CG2	-5.17	1.36	1.52
5	C	118	VAL	CB-CG1	-5.17	1.42	1.52
3	A	389	GLN	CA-C	-5.16	1.39	1.52
2	2	66	DA	C5-C6	-5.16	1.36	1.41
1	1	117	DG	C1'-N9	-5.16	1.40	1.47
2	2	9	DC	N1-C2	-5.16	1.34	1.40
2	2	43	DG	C3'-C2'	-5.16	1.46	1.52
4	B	198	ARG	CG-CD	-5.16	1.39	1.51
6	E	295	PRO	CB-CG	-5.16	1.24	1.50
3	A	169	ARG	CG-CD	-5.16	1.39	1.51
3	A	905	TRP	CA-CB	-5.16	1.42	1.53
6	E	427	PRO	CG-CD	-5.15	1.33	1.50
2	2	50	DG	N3-C4	-5.15	1.31	1.35
4	B	606	PHE	CB-CG	-5.15	1.42	1.51
1	1	60	DT	C4'-C3'	-5.15	1.47	1.52
3	A	161	TYR	CD2-CE2	-5.15	1.31	1.39
1	1	83	DC	C4-C5	-5.15	1.38	1.43
1	1	100	DA	C5'-C4'	-5.15	1.45	1.51
3	A	76	GLU	C-N	-5.15	1.24	1.34
3	A	998	TYR	CA-CB	-5.15	1.42	1.53
1	1	113	DT	N3-C4	-5.14	1.34	1.38
5	C	57	ARG	CA-CB	-5.14	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	261	GLN	CB-CG	-5.14	1.38	1.52
3	A	93	VAL	CB-CG1	-5.14	1.42	1.52
3	A	565	PRO	N-CD	-5.14	1.40	1.47
2	2	31	DA	N1-C2	-5.14	1.29	1.34
5	D	57	ARG	CA-CB	-5.14	1.42	1.53
3	A	719	ILE	CB-CG1	-5.14	1.39	1.54
1	1	94	DT	C2'-C1'	-5.14	1.47	1.52
8	G	219	THR	CA-CB	-5.14	1.40	1.53
2	2	13	DA	N7-C5	-5.14	1.36	1.39
6	E	244	MET	CG-SD	-5.13	1.67	1.81
8	G	321	ASP	CB-CG	-5.13	1.41	1.51
3	A	1067	PRO	N-CD	-5.13	1.40	1.47
3	A	956	LYS	CA-CB	-5.13	1.42	1.53
5	D	192	ASP	CB-CG	-5.13	1.41	1.51
2	2	35	DA	P-O5'	-5.12	1.54	1.59
3	A	385	GLN	CA-CB	-5.12	1.42	1.53
1	1	98	DG	O5'-C5'	-5.12	1.29	1.42
4	B	1140	HIS	CA-CB	-5.12	1.42	1.53
5	C	192	ASP	CB-CG	-5.12	1.41	1.51
6	E	519	TYR	CA-CB	-5.12	1.42	1.53
3	A	165	LEU	CA-CB	-5.12	1.42	1.53
3	A	937	GLN	CB-CG	-5.12	1.38	1.52
6	E	591	ARG	CB-CG	-5.12	1.38	1.52
3	A	833	ASN	CB-CG	-5.12	1.39	1.51
3	A	522	GLU	CD-OE2	-5.11	1.20	1.25
5	D	139	GLU	CG-CD	-5.11	1.44	1.51
3	A	421	ASP	CB-CG	-5.11	1.41	1.51
3	A	931	ILE	CB-CG1	-5.11	1.39	1.54
3	A	168	ASN	CB-CG	-5.11	1.39	1.51
3	A	686	ILE	CA-CB	-5.11	1.43	1.54
4	B	180	ARG	CB-CG	-5.11	1.38	1.52
5	D	144	ARG	CA-CB	-5.11	1.42	1.53
1	1	110	DC	C3'-O3'	-5.11	1.37	1.44
3	A	450	HIS	CA-CB	-5.11	1.42	1.53
6	E	520	LEU	CG-CD1	-5.10	1.32	1.51
6	E	464	PHE	CA-CB	-5.10	1.42	1.53
8	G	91	ARG	CB-CG	-5.10	1.38	1.52
5	C	122	ASP	C-N	-5.10	1.24	1.34
5	C	139	GLU	CG-CD	-5.10	1.44	1.51
6	E	50	LEU	CG-CD1	-5.10	1.32	1.51
2	2	47	DT	N1-C6	-5.10	1.34	1.38
3	A	144	SER	CA-CB	-5.10	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	60	GLU	CA-CB	-5.10	1.42	1.53
3	A	903	LEU	CG-CD1	-5.09	1.32	1.51
4	B	36	LEU	CG-CD2	-5.09	1.32	1.51
8	G	183	LEU	CG-CD1	-5.09	1.32	1.51
3	A	278	ASN	CB-CG	-5.09	1.39	1.51
4	B	239	LEU	CG-CD1	-5.09	1.33	1.51
5	D	122	ASP	C-N	-5.09	1.24	1.34
1	1	80	DA	C2'-C1'	-5.09	1.47	1.52
4	B	970	ARG	CB-CG	-5.09	1.38	1.52
3	A	458	PHE	CD1-CE1	-5.08	1.29	1.39
6	E	313	LEU	CG-CD2	-5.08	1.33	1.51
6	E	492	LEU	CG-CD1	-5.08	1.33	1.51
1	1	80	DA	N1-C2	-5.08	1.29	1.34
1	1	98	DG	C3'-O3'	-5.08	1.37	1.44
1	1	63	DG	C2-N3	-5.08	1.28	1.32
2	2	7	DT	C1'-N1	-5.08	1.40	1.47
2	2	48	DT	O4'-C1'	-5.08	1.36	1.42
3	A	791	ILE	C-N	-5.08	1.22	1.34
6	E	254	PRO	CG-CD	-5.08	1.33	1.50
3	A	866	LEU	CA-CB	-5.07	1.42	1.53
2	2	36	DT	C2-O2	-5.07	1.18	1.22
4	B	463	LYS	CE-NZ	-5.07	1.36	1.49
1	1	121	DG	P-O5'	-5.07	1.54	1.59
1	1	108	DA	C5-C6	-5.07	1.36	1.41
2	2	44	DA	C3'-O3'	-5.07	1.37	1.44
6	E	145	TYR	CA-CB	-5.06	1.42	1.53
3	A	425	SER	CA-CB	-5.06	1.45	1.52
4	B	223	ARG	CG-CD	-5.06	1.39	1.51
6	E	612	ARG	CA-CB	-5.06	1.42	1.53
3	A	254	GLN	CB-CG	-5.06	1.38	1.52
3	A	905	TRP	CZ3-CH2	-5.06	1.31	1.40
6	E	386	PRO	N-CA	-5.06	1.38	1.47
9	X	172	LEU	CG-CD1	-5.06	1.33	1.51
1	1	75	DA	C2-N3	-5.06	1.28	1.33
1	1	107	DG	C2-N3	-5.05	1.28	1.32
3	A	980	LEU	CB-CG	-5.05	1.37	1.52
3	A	183	VAL	CB-CG1	-5.05	1.42	1.52
2	2	32	DA	P-O5'	-5.05	1.54	1.59
2	2	40	DC	C3'-O3'	-5.05	1.37	1.44
3	A	258	ASP	CB-CG	-5.05	1.41	1.51
3	A	366	ASN	C-N	-5.05	1.24	1.34
3	A	641	LYS	CB-CG	-5.05	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	E	389	ILE	CB-CG1	-5.05	1.40	1.54
3	A	980	LEU	CA-CB	-5.04	1.42	1.53
3	A	148	TYR	CE2-CZ	-5.04	1.31	1.38
6	E	195	ARG	CA-CB	-5.04	1.42	1.53
6	E	262	LEU	CA-CB	-5.04	1.42	1.53
3	A	1071	LYS	CA-CB	-5.04	1.42	1.53
6	E	486	GLU	CA-CB	-5.03	1.42	1.53
4	B	974	VAL	CB-CG2	-5.03	1.42	1.52
6	E	226	LYS	CB-CG	-5.03	1.39	1.52
9	X	99	GLU	CG-CD	-5.03	1.44	1.51
3	A	33	ILE	CB-CG1	-5.03	1.40	1.54
8	G	102	GLU	CB-CG	5.03	1.61	1.52
6	E	118	LEU	CG-CD2	-5.02	1.33	1.51
7	F	60	ARG	CG-CD	-5.02	1.39	1.51
1	1	103	DA	C8-N7	-5.02	1.28	1.31
6	E	500	PRO	CB-CG	-5.02	1.24	1.50
9	Y	99	GLU	CG-CD	-5.02	1.44	1.51
6	E	419	LEU	C-N	-5.02	1.22	1.34
3	A	374	ILE	CB-CG1	-5.02	1.40	1.54
3	A	431	CYS	CA-CB	-5.02	1.43	1.53
1	1	72	DT	C2'-C1'	-5.02	1.47	1.52
3	A	686	ILE	CB-CG1	-5.02	1.40	1.54
8	G	212	TRP	CD2-CE2	-5.01	1.35	1.41
3	A	303	TYR	CD2-CE2	-5.01	1.31	1.39
4	B	78	VAL	CB-CG2	-5.01	1.42	1.52
4	B	623	VAL	CB-CG2	-5.01	1.42	1.52
3	A	525	ASP	CA-CB	-5.01	1.43	1.53
3	A	772	LYS	CB-CG	-5.01	1.39	1.52
3	A	1002	THR	CA-CB	-5.01	1.40	1.53
4	B	1132	GLN	CG-CD	-5.01	1.39	1.51
3	A	1068	GLU	CA-CB	-5.00	1.43	1.53
5	D	126	TYR	CB-CG	-5.00	1.44	1.51
1	1	60	DT	C2'-C1'	-5.00	1.47	1.52
3	A	70	HIS	CA-CB	-5.00	1.43	1.53
4	B	37	LYS	CG-CD	-5.00	1.35	1.52

All (1238) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	Y	120	MET	CA-CB-CG	-20.38	78.66	113.30
9	X	113	LYS	CD-CE-NZ	-20.09	65.49	111.70
4	B	1018	LEU	CA-CB-CG	-19.77	69.82	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	239	LEU	CA-CB-CG	-19.46	70.55	115.30
9	X	172	LEU	CB-CG-CD1	18.29	142.09	111.00
3	A	597	ASP	CB-CG-OD1	-16.78	103.19	118.30
2	2	35	DA	O5'-P-OP1	-16.43	90.91	105.70
1	1	61	DT	C5-C4-O4	-16.35	113.45	124.90
1	1	61	DT	N3-C4-O4	16.23	129.64	119.90
3	A	396	LEU	CA-CB-CG	-15.80	78.97	115.30
3	A	787	LEU	CA-CB-CG	-14.81	81.24	115.30
6	E	538	LEU	O-C-N	14.81	146.39	122.70
5	C	48	LEU	CA-CB-CG	-14.76	81.35	115.30
5	D	48	LEU	CA-CB-CG	-14.76	81.35	115.30
6	E	481	LEU	CB-CG-CD1	-14.70	86.01	111.00
4	B	1086	GLY	C-N-CD	-14.62	88.44	120.60
6	E	538	LEU	C-N-CA	-14.62	85.16	121.70
5	D	80	MET	CB-CG-SD	14.40	155.59	112.40
5	C	80	MET	CB-CG-SD	14.39	155.57	112.40
4	B	200	LEU	CA-CB-CG	-14.31	82.38	115.30
6	E	489	LEU	CA-CB-CG	-14.19	82.66	115.30
3	A	865	ILE	CG1-CB-CG2	-14.18	80.20	111.40
6	E	520	LEU	CB-CG-CD1	-14.01	87.19	111.00
3	A	269	LEU	CA-CB-CG	-13.78	83.61	115.30
9	X	172	LEU	CB-CG-CD2	-13.67	87.75	111.00
1	1	121	DG	O5'-P-OP1	-13.62	93.44	105.70
5	C	138	MET	CG-SD-CE	-13.49	78.62	100.20
5	D	138	MET	CG-SD-CE	-13.47	78.65	100.20
2	2	67	DA	OP1-P-O3'	-13.45	75.61	105.20
3	A	42	LEU	CA-CB-CG	-13.41	84.46	115.30
4	B	196	LEU	CB-CG-CD1	-13.35	88.31	111.00
3	A	980	LEU	CB-CG-CD1	-13.32	88.36	111.00
4	B	239	LEU	CB-CG-CD1	-13.30	88.39	111.00
6	E	392	LEU	CA-CB-CG	-13.26	84.80	115.30
3	A	33	ILE	CG1-CB-CG2	-13.16	82.45	111.40
6	E	275	LEU	CA-CB-CG	-13.10	85.17	115.30
4	B	196	LEU	CA-CB-CG	-13.07	85.24	115.30
1	1	61	DT	C4-C5-C7	-13.06	111.16	119.00
6	E	520	LEU	CA-CB-CG	-13.01	85.38	115.30
6	E	194	LEU	CA-CB-CG	-13.00	85.40	115.30
4	B	39	LEU	CB-CG-CD1	-12.74	89.35	111.00
3	A	396	LEU	CB-CG-CD1	-12.73	89.35	111.00
4	B	140	LEU	CB-CG-CD2	-12.72	89.38	111.00
3	A	1006	LEU	CB-CG-CD2	-12.60	89.59	111.00
3	A	331	LEU	CB-CG-CD1	-12.56	89.64	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	97	DT	O5'-P-OP1	-12.50	94.45	105.70
1	1	63	DG	O5'-P-OP2	-12.44	94.51	105.70
2	2	46	DT	C1'-O4'-C4'	-12.41	97.69	110.10
4	B	790	LEU	CB-CG-CD2	-12.39	89.94	111.00
1	1	74	DT	O5'-P-OP2	-12.32	94.61	105.70
8	G	317	LEU	CA-CB-CG	-12.32	86.97	115.30
6	E	515	LEU	CB-CG-CD2	-12.23	90.21	111.00
3	A	884	LEU	CA-CB-CG	-12.20	87.25	115.30
5	D	171	MET	CG-SD-CE	12.15	119.64	100.20
5	C	171	MET	CG-SD-CE	12.13	119.61	100.20
6	E	313	LEU	CB-CG-CD1	-12.12	90.39	111.00
4	B	39	LEU	CA-CB-CG	-12.05	87.59	115.30
4	B	1241	ILE	CG1-CB-CG2	-12.04	84.91	111.40
9	Y	120	MET	N-CA-CB	12.04	132.27	110.60
2	2	31	DA	O5'-P-OP2	-11.95	94.95	105.70
3	A	578	LEU	CA-CB-CG	-11.92	87.88	115.30
1	1	100	DA	C2-N3-C4	11.92	116.56	110.60
3	A	396	LEU	CB-CG-CD2	-11.69	91.12	111.00
3	A	902	LEU	CB-CG-CD1	-11.69	91.13	111.00
3	A	1000	LEU	CB-CG-CD1	-11.69	91.14	111.00
4	B	36	LEU	CB-CG-CD2	-11.66	91.18	111.00
4	B	1114	LEU	CA-CB-CG	-11.65	88.50	115.30
4	B	16	LEU	CA-CB-CG	-11.65	88.51	115.30
2	2	53	DT	O4'-C1'-N1	11.59	116.11	108.00
8	G	322	LEU	CB-CG-CD1	-11.58	91.31	111.00
3	A	251	LEU	CA-CB-CG	-11.49	88.87	115.30
3	A	370	LEU	CB-CG-CD1	-11.49	91.47	111.00
3	A	703	LEU	CB-CG-CD1	-11.48	91.49	111.00
5	D	80	MET	CA-CB-CG	-11.47	93.80	113.30
2	2	47	DT	O4'-C4'-C3'	-11.47	99.12	106.00
5	C	80	MET	CA-CB-CG	-11.46	93.82	113.30
6	E	419	LEU	CB-CG-CD2	-11.39	91.63	111.00
1	1	99	DT	O5'-P-OP1	-11.39	95.45	105.70
4	B	196	LEU	CB-CG-CD2	-11.38	91.65	111.00
3	A	597	ASP	CB-CG-OD2	11.29	128.46	118.30
4	B	56	LEU	CA-CB-CG	-11.28	89.35	115.30
5	D	40	LEU	CA-CB-CG	-11.27	89.39	115.30
4	B	200	LEU	CB-CG-CD2	-11.26	91.85	111.00
5	C	40	LEU	CA-CB-CG	-11.26	89.41	115.30
3	A	1073	LEU	CB-CG-CD2	-11.23	91.91	111.00
6	E	492	LEU	CA-CB-CG	-11.17	89.61	115.30
6	E	118	LEU	CA-CB-CG	-11.04	89.90	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	623	LEU	CB-CG-CD2	-11.03	92.25	111.00
6	E	362	ILE	CG1-CB-CG2	-11.01	87.19	111.40
1	1	97	DT	O4'-C1'-N1	-10.93	100.35	108.00
6	E	448	LEU	CA-CB-CG	-10.92	90.18	115.30
6	E	255	ASP	CB-CG-OD1	-10.85	108.53	118.30
3	A	957	ILE	CG1-CB-CG2	-10.85	87.54	111.40
5	C	210	LEU	CA-CB-CG	-10.80	90.46	115.30
2	2	39	DT	O5'-P-OP1	-10.80	95.98	105.70
5	D	210	LEU	CA-CB-CG	-10.79	90.48	115.30
5	D	210	LEU	CB-CG-CD2	-10.79	92.65	111.00
8	G	183	LEU	CA-CB-CG	-10.79	90.49	115.30
4	B	65	LEU	CB-CG-CD2	-10.77	92.69	111.00
5	C	210	LEU	CB-CG-CD2	-10.77	92.69	111.00
5	D	194	LEU	CB-CG-CD1	-10.77	92.70	111.00
5	D	44	LEU	CA-CB-CG	-10.76	90.55	115.30
5	C	44	LEU	CA-CB-CG	-10.76	90.55	115.30
5	C	194	LEU	CB-CG-CD1	-10.74	92.73	111.00
3	A	1073	LEU	CB-CG-CD1	-10.74	92.74	111.00
1	1	66	DG	P-O3'-C3'	-10.74	106.81	119.70
6	E	228	LEU	CB-CG-CD1	-10.70	92.81	111.00
4	B	1222	GLU	CA-CB-CG	-10.69	89.89	113.40
6	E	262	LEU	CA-CB-CG	-10.66	90.78	115.30
3	A	1034	LEU	CA-CB-CG	-10.63	90.85	115.30
4	B	1240	ILE	CG1-CB-CG2	-10.61	88.05	111.40
3	A	179	ARG	CA-CB-CG	-10.61	90.06	113.40
2	2	67	DA	OP2-P-O3'	10.61	128.53	105.20
1	1	99	DT	C5-C4-O4	-10.57	117.50	124.90
3	A	982	LEU	CA-CB-CG	-10.56	91.00	115.30
5	D	219	ASP	CB-CG-OD2	-10.54	108.81	118.30
5	C	219	ASP	CB-CG-OD2	-10.54	108.82	118.30
6	E	311	ASP	CB-CG-OD1	-10.46	108.88	118.30
3	A	769	LEU	CA-CB-CG	-10.44	91.28	115.30
3	A	340	LEU	CA-CB-CG	-10.35	91.49	115.30
3	A	545	LEU	CB-CG-CD2	-10.32	93.45	111.00
2	2	67	DA	P-O3'-C3'	10.31	132.07	119.70
3	A	1037	LEU	CB-CG-CD1	-10.22	93.62	111.00
8	G	191	LEU	CA-CB-CG	-10.18	91.89	115.30
6	E	513	MET	CB-CG-SD	-10.09	82.13	112.40
3	A	488	LEU	CB-CG-CD1	-10.05	93.91	111.00
4	B	370	THR	CA-CB-CG2	-10.04	98.34	112.40
3	A	129	ILE	CG1-CB-CG2	-10.04	89.31	111.40
4	B	1244	LEU	CB-CG-CD1	-10.04	93.94	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	240	LEU	CB-CG-CD2	-10.03	93.94	111.00
6	E	307	GLN	C-N-CA	-10.03	96.62	121.70
2	2	42	DT	C1'-O4'-C4'	-10.01	100.09	110.10
3	A	1077	LEU	CA-CB-CG	-9.99	92.31	115.30
4	B	330	LEU	CB-CG-CD2	-9.99	94.02	111.00
9	Y	121	LEU	CA-CB-CG	9.94	138.17	115.30
6	E	196	LEU	CA-CB-CG	-9.94	92.45	115.30
6	E	498	LEU	CB-CG-CD1	-9.93	94.12	111.00
1	1	100	DA	O4'-C1'-N9	-9.88	101.08	108.00
2	2	45	DA	O5'-P-OP1	-9.88	96.81	105.70
3	A	669	LEU	CA-CB-CG	-9.87	92.61	115.30
2	2	51	DT	C1'-O4'-C4'	-9.85	100.25	110.10
6	E	306	LEU	CB-CG-CD2	-9.85	94.26	111.00
3	A	26	LEU	CA-CB-CG	-9.82	92.71	115.30
6	E	587	LEU	CA-CB-CG	-9.80	92.76	115.30
3	A	447	LEU	CB-CG-CD1	-9.80	94.34	111.00
4	B	423	LEU	CA-CB-CG	9.80	137.84	115.30
4	B	1121	LEU	CA-CB-CG	-9.78	92.80	115.30
3	A	573	LEU	CB-CG-CD1	-9.76	94.41	111.00
6	E	118	LEU	CB-CG-CD1	-9.76	94.42	111.00
2	2	34	DA	O4'-C4'-C3'	-9.74	100.16	106.00
3	A	283	LEU	CA-CB-CG	-9.71	92.97	115.30
4	B	65	LEU	CA-CB-CG	9.71	137.62	115.30
4	B	167	LEU	CA-CB-CG	-9.70	92.99	115.30
9	X	40	PRO	CA-N-CD	-9.70	97.92	111.50
6	E	510	SER	C-N-CA	-9.68	97.50	121.70
3	A	1034	LEU	CB-CG-CD2	-9.65	94.60	111.00
3	A	30	LEU	CB-CG-CD2	-9.65	94.60	111.00
3	A	884	LEU	CB-CG-CD1	-9.62	94.65	111.00
2	2	53	DT	C1'-O4'-C4'	-9.61	100.50	110.10
3	A	724	ILE	CG1-CB-CG2	-9.57	90.34	111.40
3	A	393	LEU	CB-CG-CD2	-9.57	94.73	111.00
4	B	325	GLU	CB-CA-C	-9.47	91.46	110.40
6	E	60	GLU	C-N-CA	-9.47	98.02	121.70
5	D	80	MET	CG-SD-CE	-9.45	85.07	100.20
3	A	680	LEU	CB-CG-CD2	-9.45	94.93	111.00
3	A	899	PHE	C-N-CA	-9.42	98.14	121.70
5	C	80	MET	CG-SD-CE	-9.40	85.15	100.20
3	A	866	LEU	CB-CG-CD1	-9.40	95.02	111.00
3	A	1052	LEU	CB-CG-CD2	-9.38	95.05	111.00
3	A	182	LEU	CB-CG-CD2	-9.34	95.12	111.00
4	B	183	LEU	CB-CG-CD1	-9.34	95.12	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	307	LEU	CB-CG-CD2	-9.32	95.15	111.00
6	E	489	LEU	CB-CG-CD2	-9.29	95.22	111.00
1	1	58	DA	O4'-C4'-C3'	-9.28	100.43	106.00
2	2	34	DA	O5'-P-OP1	-9.25	97.38	105.70
6	E	50	LEU	CA-CB-CG	-9.24	94.04	115.30
4	B	16	LEU	CB-CG-CD1	-9.24	95.29	111.00
4	B	1254	TYR	CA-CB-CG	9.23	130.94	113.40
6	E	623	LEU	CA-CB-CG	-9.23	94.08	115.30
3	A	323	ARG	CB-CG-CD	-9.22	87.63	111.60
2	2	9	DC	O5'-P-OP2	-9.22	97.41	105.70
5	D	44	LEU	CB-CG-CD2	-9.21	95.35	111.00
5	C	44	LEU	CB-CG-CD2	-9.20	95.36	111.00
1	1	90	DA	O4'-C1'-N9	-9.17	101.58	108.00
2	2	61	DT	O4'-C1'-N1	9.13	114.39	108.00
8	G	286	LEU	CB-CG-CD2	-9.14	95.47	111.00
6	E	196	LEU	CB-CG-CD1	-9.10	95.53	111.00
3	A	737	THR	C-N-CA	-9.09	98.98	121.70
2	2	47	DT	O4'-C1'-N1	-9.08	101.64	108.00
5	C	138	MET	CA-CB-CG	9.08	128.74	113.30
1	1	73	DA	O4'-C4'-C3'	-9.07	100.56	106.00
5	C	80	MET	N-CA-C	-9.07	86.51	111.00
2	2	45	DA	O4'-C1'-N9	-9.07	101.65	108.00
3	A	1065	GLY	C-N-CA	-9.07	99.03	121.70
5	D	80	MET	N-CA-C	-9.06	86.53	111.00
2	2	67	DA	O4'-C4'-C3'	-9.06	100.56	106.00
5	D	138	MET	CA-CB-CG	9.05	128.68	113.30
9	Y	120	MET	CB-CA-C	-9.05	92.30	110.40
8	G	322	LEU	CB-CG-CD2	-9.04	95.64	111.00
4	B	1141	ILE	CG1-CB-CG2	-9.03	91.53	111.40
3	A	281	LEU	CA-CB-CG	-8.99	94.62	115.30
8	G	204	TYR	CE1-CZ-OH	-8.98	95.85	120.10
3	A	438	GLY	N-CA-C	-8.95	90.73	113.10
3	A	980	LEU	CB-CG-CD2	-8.94	95.80	111.00
1	1	61	DT	C6-C5-C7	8.88	128.23	122.90
3	A	165	LEU	CB-CG-CD1	-8.88	95.90	111.00
8	G	191	LEU	CB-CG-CD1	-8.88	95.90	111.00
5	D	170	PHE	C-N-CA	-8.88	99.50	121.70
8	G	286	LEU	CB-CG-CD1	-8.88	95.91	111.00
2	2	38	DT	O4'-C1'-N1	8.87	114.21	108.00
4	B	370	THR	OG1-CB-CG2	-8.87	89.60	110.00
2	2	43	DG	O4'-C4'-C3'	-8.87	100.68	106.00
6	E	306	LEU	CB-CG-CD1	-8.87	95.92	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2	66	DA	O4'-C1'-N9	-8.86	101.80	108.00
4	B	488	TYR	CA-CB-CG	-8.85	96.58	113.40
5	C	170	PHE	C-N-CA	-8.85	99.57	121.70
5	C	194	LEU	CA-CB-CG	-8.85	94.95	115.30
5	D	194	LEU	CA-CB-CG	-8.84	94.97	115.30
3	A	292	LEU	CB-CG-CD2	-8.84	95.98	111.00
3	A	392	PRO	C-N-CA	-8.82	99.65	121.70
2	2	42	DT	O4'-C1'-N1	8.80	114.16	108.00
2	2	39	DT	O5'-P-OP2	-8.77	97.81	105.70
3	A	684	GLN	CA-CB-CG	-8.74	94.18	113.40
4	B	681	LEU	CB-CG-CD2	-8.71	96.20	111.00
1	1	117	DG	C1'-O4'-C4'	-8.70	101.40	110.10
6	E	420	GLU	C-N-CA	-8.70	99.95	121.70
3	A	387	MET	CA-CB-CG	-8.68	98.54	113.30
3	A	866	LEU	CB-CG-CD2	-8.67	96.26	111.00
4	B	38	ASP	CB-CG-OD1	-8.66	110.51	118.30
5	C	217	LEU	CA-CB-CG	-8.66	95.39	115.30
8	G	113	LEU	CB-CG-CD2	-8.65	96.29	111.00
5	D	217	LEU	CA-CB-CG	-8.65	95.41	115.30
3	A	581	GLN	CA-CB-CG	-8.64	94.39	113.40
1	1	118	DG	C3'-C2'-C1'	-8.63	92.14	102.50
5	C	219	ASP	N-CA-C	-8.63	87.71	111.00
5	D	219	ASP	N-CA-C	-8.62	87.72	111.00
2	2	42	DT	C3'-C2'-C1'	-8.62	92.16	102.50
3	A	447	LEU	CB-CG-CD2	-8.62	96.35	111.00
5	C	49	GLU	CA-CB-CG	-8.61	94.46	113.40
3	A	1038	LEU	CB-CG-CD1	-8.60	96.38	111.00
5	D	49	GLU	CA-CB-CG	-8.59	94.50	113.40
6	E	306	LEU	CA-CB-CG	-8.58	95.56	115.30
4	B	898	LEU	CA-CB-CG	8.57	135.00	115.30
6	E	389	ILE	CG1-CB-CG2	-8.55	92.58	111.40
5	D	176	VAL	CG1-CB-CG2	-8.49	97.32	110.90
1	1	100	DA	C5-C6-N1	8.48	121.94	117.70
5	C	176	VAL	CG1-CB-CG2	-8.47	97.35	110.90
1	1	77	DA	C8-N9-C4	8.46	109.19	105.80
2	2	51	DT	O4'-C1'-N1	8.44	113.91	108.00
4	B	656	ALA	CB-CA-C	-8.42	97.47	110.10
9	Y	49	LYS	C-N-CA	-8.41	104.63	122.30
1	1	101	DT	O4'-C4'-C3'	-8.39	100.96	106.00
6	E	467	ASP	CB-CG-OD1	-8.39	110.74	118.30
5	D	45	LEU	CB-CG-CD2	-8.38	96.75	111.00
5	C	45	LEU	CB-CG-CD2	-8.38	96.76	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	559	MET	CG-SD-CE	-8.37	86.81	100.20
9	Y	122	MET	CA-CB-CG	-8.36	99.09	113.30
5	C	80	MET	N-CA-CB	8.35	125.64	110.60
4	B	1018	LEU	C-N-CA	-8.34	100.85	121.70
5	D	80	MET	N-CA-CB	8.34	125.60	110.60
6	E	361	VAL	CA-CB-CG2	-8.32	98.42	110.90
1	1	79	DA	C1'-O4'-C4'	-8.31	101.79	110.10
6	E	244	MET	CB-CG-SD	-8.30	87.49	112.40
2	2	45	DA	C8-N9-C4	8.29	109.12	105.80
2	2	67	DA	O3'-P-O5'	8.28	119.74	104.00
9	Y	120	MET	CB-CG-SD	-8.28	87.56	112.40
5	C	196	LEU	CB-CG-CD1	-8.27	96.94	111.00
5	D	196	LEU	CB-CG-CD1	-8.26	96.96	111.00
3	A	675	THR	C-N-CA	-8.25	101.08	121.70
6	E	448	LEU	CB-CG-CD1	-8.25	96.98	111.00
9	Y	202	MET	CB-CG-SD	8.25	137.14	112.40
4	B	183	LEU	CA-CB-CG	-8.24	96.35	115.30
3	A	941	ASP	CB-CG-OD1	-8.24	110.89	118.30
3	A	221	LYS	CD-CE-NZ	-8.22	92.78	111.70
7	F	59	LEU	CB-CG-CD1	-8.22	97.02	111.00
3	A	686	ILE	CG1-CB-CG2	-8.22	93.32	111.40
3	A	388	ASP	C-N-CA	-8.21	101.18	121.70
3	A	387	MET	CB-CG-SD	-8.20	87.80	112.40
2	2	35	DA	O4'-C4'-C3'	-8.19	101.09	106.00
3	A	866	LEU	CA-CB-CG	-8.18	96.49	115.30
2	2	32	DA	O4'-C1'-N9	-8.18	102.28	108.00
2	2	37	DT	C3'-C2'-C1'	-8.14	92.73	102.50
4	B	1017	LEU	CB-CG-CD2	-8.14	97.16	111.00
5	D	87	LEU	CB-CG-CD1	-8.14	97.15	111.00
1	1	88	DA	O4'-C1'-N9	-8.14	102.30	108.00
3	A	608	VAL	N-CA-C	-8.14	89.03	111.00
6	E	275	LEU	CB-CG-CD1	-8.13	97.17	111.00
7	F	33	VAL	C-N-CA	-8.12	101.40	121.70
5	C	87	LEU	CB-CG-CD1	-8.12	97.20	111.00
3	A	340	LEU	CB-CG-CD1	-8.08	97.26	111.00
6	E	423	ILE	CG1-CB-CG2	-8.08	93.63	111.40
4	B	1121	LEU	CB-CG-CD2	-8.04	97.32	111.00
6	E	490	LEU	CB-CG-CD1	-8.03	97.35	111.00
1	1	75	DA	N1-C2-N3	-8.00	125.30	129.30
6	E	194	LEU	CB-CG-CD2	-8.00	97.40	111.00
5	D	79	ILE	C-N-CA	-7.99	101.74	121.70
3	A	277	LEU	CB-CG-CD2	-7.98	97.43	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	539	ILE	CG1-CB-CG2	-7.98	93.83	111.40
8	G	201	GLU	C-N-CA	-7.98	101.75	121.70
5	C	138	MET	CB-CA-C	7.97	126.35	110.40
4	B	199	ARG	CA-CB-CG	-7.97	95.87	113.40
3	A	388	ASP	CB-CG-OD1	-7.97	111.13	118.30
5	D	138	MET	CB-CA-C	7.96	126.33	110.40
5	C	79	ILE	C-N-CA	-7.96	101.81	121.70
2	2	34	DA	C1'-O4'-C4'	-7.93	102.17	110.10
1	1	87	DA	C8-N9-C4	7.93	108.97	105.80
3	A	1055	ILE	CG1-CB-CG2	-7.93	93.96	111.40
4	B	196	LEU	CB-CA-C	-7.92	95.15	110.20
3	A	627	LEU	CA-CB-CG	7.92	133.51	115.30
1	1	96	DC	O4'-C1'-N1	-7.91	102.46	108.00
3	A	598	VAL	CG1-CB-CG2	-7.91	98.25	110.90
3	A	662	ARG	NE-CZ-NH1	7.90	124.25	120.30
2	2	5	DC	C3'-C2'-C1'	-7.90	93.02	102.50
3	A	882	ILE	C-N-CA	-7.90	101.96	121.70
4	B	322	SER	CA-CB-OG	-7.88	89.94	111.20
3	A	29	ASP	CB-CG-OD2	-7.87	111.22	118.30
5	D	82	MET	CG-SD-CE	-7.87	87.61	100.20
5	D	40	LEU	CB-CG-CD2	-7.87	97.63	111.00
6	E	507	ILE	C-N-CA	-7.86	102.04	121.70
3	A	686	ILE	CA-CB-CG1	-7.85	96.08	111.00
5	C	40	LEU	CB-CG-CD2	-7.85	97.65	111.00
3	A	304	LEU	CB-CG-CD2	-7.85	97.65	111.00
4	B	222	VAL	CA-CB-CG2	-7.85	99.13	110.90
4	B	37	LYS	CD-CE-NZ	-7.84	93.66	111.70
5	C	82	MET	CG-SD-CE	-7.84	87.65	100.20
3	A	33	ILE	C-N-CA	-7.84	102.10	121.70
3	A	959	VAL	CG1-CB-CG2	-7.83	98.37	110.90
9	Y	120	MET	N-CA-C	-7.83	89.87	111.00
3	A	29	ASP	CB-CG-OD1	7.82	125.33	118.30
3	A	564	VAL	CA-CB-CG2	-7.82	99.18	110.90
8	G	219	THR	CA-CB-CG2	-7.82	101.46	112.40
3	A	554	LEU	CB-CG-CD1	-7.81	97.72	111.00
1	1	107	DG	O5'-P-OP2	-7.81	98.67	105.70
3	A	1052	LEU	CA-CB-CG	-7.80	97.35	115.30
4	B	175	SER	CA-CB-OG	-7.80	90.14	111.20
4	B	540	ILE	C-N-CA	-7.80	102.20	121.70
3	A	29	ASP	CB-CA-C	-7.80	94.81	110.40
1	1	120	DT	C3'-C2'-C1'	-7.78	93.16	102.50
5	C	177	ASN	CB-CA-C	-7.78	94.84	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	574	VAL	CG1-CB-CG2	-7.76	98.48	110.90
2	2	66	DA	N3-C4-N9	-7.76	121.19	127.40
4	B	510	LEU	CA-CB-CG	7.75	133.13	115.30
5	D	177	ASN	CB-CA-C	-7.75	94.89	110.40
4	B	982	ILE	CG1-CB-CG2	-7.75	94.35	111.40
3	A	811	LYS	C-N-CA	-7.75	106.03	122.30
6	E	140	VAL	CA-CB-CG2	-7.75	99.28	110.90
8	G	141	LEU	CB-CG-CD2	-7.74	97.84	111.00
6	E	502	THR	CA-CB-CG2	-7.74	101.56	112.40
2	2	31	DA	C1'-O4'-C4'	-7.74	102.36	110.10
1	1	114	DC	O5'-P-OP1	-7.73	98.75	105.70
3	A	402	LEU	CB-CG-CD2	-7.72	97.87	111.00
3	A	617	ALA	C-N-CA	-7.72	102.39	121.70
3	A	27	LEU	CB-CG-CD1	-7.72	97.87	111.00
1	1	99	DT	N3-C4-O4	7.72	124.53	119.90
2	2	45	DA	O5'-P-OP2	7.72	119.96	110.70
1	1	120	DT	O4'-C4'-C3'	-7.68	101.39	106.00
4	B	707	LEU	CB-CG-CD1	-7.68	97.95	111.00
3	A	502	TYR	CA-CB-CG	-7.67	98.82	113.40
6	E	425	GLY	C-N-CA	-7.67	102.54	121.70
6	E	479	LEU	CB-CG-CD2	-7.66	97.97	111.00
4	B	18	SER	CA-CB-OG	-7.66	90.52	111.20
3	A	30	LEU	CA-CB-CG	-7.66	97.69	115.30
4	B	35	LYS	C-N-CA	-7.65	102.57	121.70
3	A	42	LEU	CB-CG-CD2	-7.65	98.00	111.00
3	A	959	VAL	CA-CB-CG2	-7.65	99.43	110.90
3	A	50	LEU	CA-CB-CG	-7.64	97.72	115.30
2	2	51	DT	C3'-C2'-C1'	-7.60	93.38	102.50
6	E	350	LEU	CB-CG-CD1	-7.60	98.08	111.00
2	2	9	DC	O4'-C4'-C3'	-7.59	101.45	106.00
6	E	349	LEU	CB-CG-CD2	-7.58	98.11	111.00
3	A	1074	MET	CA-CB-CG	-7.55	100.46	113.30
3	A	526	TYR	CA-CB-CG	-7.55	99.06	113.40
6	E	479	LEU	CB-CG-CD1	-7.55	98.17	111.00
3	A	960	TYR	CA-CB-CG	-7.54	99.07	113.40
6	E	492	LEU	CB-CG-CD2	-7.54	98.18	111.00
8	G	227	ARG	C-N-CA	-7.53	102.87	121.70
6	E	481	LEU	CA-CB-CG	-7.53	97.99	115.30
1	1	58	DA	C4'-C3'-C2'	-7.50	96.35	103.10
4	B	1127	MET	C-N-CA	-7.50	102.96	121.70
3	A	370	LEU	CA-CB-CG	-7.50	98.06	115.30
3	A	881	ASP	CB-CG-OD1	-7.49	111.56	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	1078	GLN	C-N-CA	-7.49	102.97	121.70
3	A	703	LEU	CB-CG-CD2	-7.47	98.30	111.00
4	B	908	LEU	CA-CB-CG	7.47	132.47	115.30
2	2	52	DA	O4'-C1'-N9	-7.45	102.78	108.00
3	A	958	MET	CB-CG-SD	-7.45	90.04	112.40
6	E	89	CYS	CA-CB-SG	-7.45	100.59	114.00
3	A	1003	GLN	C-N-CA	-7.44	103.09	121.70
1	1	73	DA	C4'-C3'-C2'	-7.44	96.40	103.10
3	A	982	LEU	CB-CG-CD2	-7.44	98.36	111.00
3	A	882	ILE	CG1-CB-CG2	-7.39	95.13	111.40
2	2	66	DA	O4'-C4'-C3'	-7.38	101.55	104.50
4	B	73	ILE	CG1-CB-CG2	-7.38	95.15	111.40
6	E	489	LEU	C-N-CA	-7.38	103.24	121.70
3	A	903	LEU	CB-CG-CD2	-7.38	98.45	111.00
3	A	691	MET	CB-CG-SD	-7.38	90.25	112.40
3	A	1074	MET	CG-SD-CE	-7.37	88.41	100.20
3	A	998	TYR	CA-CB-CG	-7.36	99.42	113.40
2	2	38	DT	C1'-O4'-C4'	-7.35	102.75	110.10
6	E	275	LEU	CB-CG-CD2	-7.34	98.52	111.00
6	E	255	ASP	C-N-CA	-7.34	103.36	121.70
6	E	259	MET	CG-SD-CE	-7.33	88.47	100.20
2	2	60	DC	C4'-C3'-C2'	-7.33	96.50	103.10
6	E	346	ARG	C-N-CA	-7.33	103.39	121.70
8	G	111	LEU	CA-CB-CG	-7.33	98.45	115.30
1	1	120	DT	O5'-P-OP1	-7.32	99.11	105.70
3	A	385	GLN	CA-CB-CG	-7.32	97.29	113.40
5	D	44	LEU	CB-CG-CD1	-7.31	98.57	111.00
5	C	44	LEU	CB-CG-CD1	-7.31	98.58	111.00
3	A	277	LEU	CA-CB-CG	-7.29	98.54	115.30
6	E	140	VAL	CG1-CB-CG2	-7.28	99.25	110.90
6	E	486	GLU	C-N-CA	-7.28	103.51	121.70
3	A	719	ILE	CG1-CB-CG2	-7.27	95.41	111.40
2	2	32	DA	C8-N9-C4	7.26	108.71	105.80
6	E	299	VAL	CG1-CB-CG2	-7.26	99.28	110.90
3	A	586	SER	CB-CA-C	-7.26	96.31	110.10
3	A	791	ILE	C-N-CA	-7.25	103.56	121.70
1	1	72	DT	C3'-C2'-C1'	-7.25	93.80	102.50
3	A	31	ILE	CG1-CB-CG2	-7.25	95.46	111.40
6	E	613	VAL	CG1-CB-CG2	-7.24	99.31	110.90
3	A	985	LEU	CB-CG-CD1	-7.23	98.72	111.00
9	Y	122	MET	N-CA-CB	-7.22	97.61	110.60
6	E	116	TRP	C-N-CA	-7.21	103.67	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	606	PHE	CD1-CE1-CZ	7.21	128.75	120.10
3	A	374	ILE	CG1-CB-CG2	-7.20	95.56	111.40
3	A	578	LEU	C-N-CA	-7.20	103.71	121.70
3	A	42	LEU	CB-CG-CD1	-7.18	98.79	111.00
6	E	229	ARG	CA-CB-CG	-7.18	97.60	113.40
3	A	143	ARG	C-N-CA	-7.17	103.77	121.70
3	A	452	ARG	CA-CB-CG	-7.17	97.63	113.40
3	A	329	GLY	C-N-CA	-7.15	103.81	121.70
3	A	390	THR	CA-CB-CG2	-7.15	102.39	112.40
6	E	375	LEU	CB-CG-CD2	-7.15	98.84	111.00
4	B	1145	VAL	CG1-CB-CG2	-7.15	99.47	110.90
3	A	95	MET	CB-CG-SD	-7.14	90.96	112.40
1	1	102	DA	O4'-C1'-N9	-7.14	103.00	108.00
3	A	453	VAL	CA-CB-CG2	-7.14	100.19	110.90
4	B	708	LEU	C-N-CA	-7.14	103.86	121.70
6	E	62	ILE	CG1-CB-CG2	-7.13	95.70	111.40
3	A	219	PHE	C-N-CA	-7.13	103.87	121.70
3	A	364	LEU	CB-CG-CD1	-7.13	98.88	111.00
3	A	179	ARG	CG-CD-NE	7.11	126.74	111.80
4	B	22	THR	C-N-CA	-7.11	103.92	121.70
3	A	680	LEU	CA-CB-CG	-7.11	98.94	115.30
3	A	936	LEU	CB-CG-CD1	-7.10	98.93	111.00
4	B	237	THR	CA-CB-CG2	-7.09	102.47	112.40
1	1	115	DA	OP1-P-OP2	-7.09	108.97	119.60
2	2	46	DT	O4'-C1'-N1	7.08	112.96	108.00
4	B	197	THR	CA-CB-CG2	-7.08	102.48	112.40
3	A	1077	LEU	CB-CG-CD1	-7.08	98.96	111.00
3	A	1086	VAL	CG1-CB-CG2	-7.08	99.57	110.90
8	G	318	LEU	CA-CB-CG	-7.07	99.05	115.30
3	A	787	LEU	CB-CG-CD2	-7.06	99.00	111.00
3	A	1052	LEU	CB-CG-CD1	-7.06	99.00	111.00
6	E	383	LEU	CB-CG-CD1	-7.06	99.00	111.00
2	2	38	DT	OP2-P-O3'	7.05	120.71	105.20
6	E	305	MET	CG-SD-CE	-7.05	88.92	100.20
3	A	1073	LEU	CB-CA-C	-7.04	96.82	110.20
4	B	833	VAL	CG1-CB-CG2	-7.04	99.63	110.90
3	A	446	SER	CA-CB-OG	-7.04	92.20	111.20
3	A	1000	LEU	CB-CA-C	-7.02	96.86	110.20
2	2	31	DA	C8-N9-C4	7.01	108.61	105.80
6	E	480	SER	C-N-CA	-7.00	104.19	121.70
6	E	225	ILE	CG1-CB-CG2	-7.00	96.00	111.40
3	A	1093	ALA	O-C-N	6.99	133.88	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	1244	LEU	CB-CG-CD2	-6.99	99.12	111.00
6	E	300	ARG	CA-CB-CG	-6.99	98.02	113.40
9	X	80	LEU	CB-CG-CD2	-6.98	99.13	111.00
3	A	573	LEU	CB-CA-C	-6.98	96.93	110.20
4	B	201	VAL	CG1-CB-CG2	-6.98	99.73	110.90
3	A	401	ARG	CG-CD-NE	-6.98	97.14	111.80
5	C	79	ILE	CG1-CB-CG2	-6.98	96.05	111.40
5	D	79	ILE	CG1-CB-CG2	-6.97	96.06	111.40
4	B	169	VAL	CG1-CB-CG2	-6.97	99.75	110.90
2	2	60	DC	O4'-C4'-C3'	-6.96	101.72	104.50
1	1	82	DT	C1'-O4'-C4'	-6.95	103.15	110.10
3	A	1034	LEU	CB-CG-CD1	-6.95	99.19	111.00
9	Y	53	LYS	CD-CE-NZ	-6.94	95.73	111.70
2	2	68	DT	C4'-C3'-C2'	-6.94	96.86	103.10
1	1	102	DA	O5'-P-OP1	-6.93	99.46	105.70
4	B	478	GLY	N-CA-C	-6.93	95.78	113.10
8	G	139	LEU	CB-CG-CD2	-6.92	99.23	111.00
8	G	111	LEU	CB-CG-CD2	-6.92	99.23	111.00
3	A	383	LEU	CA-CB-CG	-6.92	99.39	115.30
2	2	49	DT	C3'-C2'-C1'	-6.91	94.20	102.50
6	E	497	ILE	CG1-CB-CG2	-6.91	96.21	111.40
1	1	106	DG	C4'-C3'-C2'	-6.90	96.89	103.10
1	1	98	DG	C2-N3-C4	-6.90	108.45	111.90
3	A	554	LEU	CB-CG-CD2	-6.90	99.27	111.00
3	A	976	VAL	CA-CB-CG2	-6.88	100.57	110.90
4	B	250	HIS	N-CA-CB	-6.88	98.22	110.60
5	C	48	LEU	CB-CG-CD2	-6.88	99.31	111.00
6	E	401	ILE	CG1-CB-CG2	-6.88	96.27	111.40
6	E	305	MET	CB-CG-SD	-6.88	91.77	112.40
3	A	963	ARG	C-N-CA	-6.87	104.52	121.70
1	1	62	DT	O5'-P-OP2	-6.86	99.52	105.70
5	D	48	LEU	CB-CG-CD2	-6.86	99.33	111.00
1	1	62	DT	C4-C5-C7	6.86	123.12	119.00
8	G	189	LEU	CB-CG-CD1	-6.86	99.34	111.00
3	A	332	LEU	CA-CB-CG	-6.85	99.53	115.30
8	G	195	ALA	C-N-CA	-6.85	104.57	121.70
3	A	29	ASP	C-N-CA	-6.84	104.59	121.70
6	E	350	LEU	CA-CB-CG	-6.83	99.58	115.30
3	A	846	ILE	CG1-CB-CG2	-6.83	96.37	111.40
1	1	98	DG	O4'-C4'-C3'	-6.82	101.77	104.50
8	G	141	LEU	CA-CB-CG	-6.82	99.62	115.30
4	B	1130	GLN	CA-CB-CG	-6.82	98.40	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	163	PHE	C-N-CA	-6.81	104.67	121.70
4	B	176	SER	CA-CB-OG	-6.81	92.81	111.20
8	G	89	ILE	CG1-CB-CG2	-6.80	96.43	111.40
1	1	73	DA	C3'-C2'-C1'	-6.80	94.34	102.50
9	X	185	SER	O-C-N	-6.79	111.84	122.70
1	1	106	DG	O4'-C4'-C3'	-6.78	101.79	104.50
3	A	561	ARG	C-N-CA	-6.78	104.74	121.70
3	A	332	LEU	CB-CG-CD1	-6.78	99.48	111.00
3	A	560	GLN	C-N-CA	-6.76	104.80	121.70
2	2	67	DA	O5'-P-OP2	-6.76	99.62	105.70
4	B	43	TYR	CA-CB-CG	-6.75	100.58	113.40
3	A	256	LEU	CB-CG-CD1	-6.74	99.53	111.00
3	A	589	VAL	CA-CB-CG2	-6.74	100.78	110.90
3	A	351	MET	CA-CB-CG	6.74	124.76	113.30
3	A	1093	ALA	CA-C-N	-6.74	102.37	117.20
3	A	325	VAL	CG1-CB-CG2	-6.73	100.13	110.90
3	A	277	LEU	CB-CG-CD1	-6.72	99.58	111.00
1	1	96	DC	C6-N1-C2	6.72	122.99	120.30
5	C	40	LEU	CB-CG-CD1	-6.72	99.58	111.00
6	E	541	VAL	CA-CB-CG1	-6.71	100.83	110.90
5	D	40	LEU	CB-CG-CD1	-6.71	99.59	111.00
6	E	348	ASN	C-N-CA	-6.71	104.93	121.70
6	E	514	VAL	C-N-CA	-6.70	104.95	121.70
6	E	194	LEU	C-N-CA	-6.70	104.96	121.70
3	A	1086	VAL	CA-CB-CG1	-6.69	100.86	110.90
1	1	72	DT	C4'-C3'-C2'	-6.69	97.08	103.10
1	1	73	DA	OP2-P-O3'	6.68	119.89	105.20
4	B	46	ARG	C-N-CA	-6.67	105.02	121.70
2	2	66	DA	C3'-C2'-C1'	-6.67	94.49	102.50
1	1	85	DG	C8-N9-C4	6.67	109.07	106.40
2	2	67	DA	N1-C2-N3	6.66	132.63	129.30
4	B	1238	ASN	N-CA-CB	-6.66	98.61	110.60
6	E	452	ARG	C-N-CA	-6.66	105.06	121.70
2	2	38	DT	C5-C6-N1	-6.66	119.71	123.70
4	B	252	LYS	CD-CE-NZ	-6.66	96.39	111.70
1	1	61	DT	O4'-C1'-N1	-6.65	103.34	108.00
1	1	79	DA	C3'-C2'-C1'	-6.65	94.52	102.50
3	A	578	LEU	CB-CG-CD2	-6.65	99.70	111.00
4	B	1209	SER	CA-CB-OG	-6.64	93.26	111.20
1	1	75	DA	C5-C6-N6	-6.63	118.39	123.70
9	X	172	LEU	CA-CB-CG	-6.63	100.04	115.30
4	B	167	LEU	CB-CG-CD1	-6.62	99.74	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	635	ILE	CG1-CB-CG2	-6.62	96.84	111.40
3	A	182	LEU	CB-CG-CD1	-6.62	99.75	111.00
3	A	545	LEU	CB-CG-CD1	-6.61	99.76	111.00
4	B	42	ARG	CB-CG-CD	-6.61	94.41	111.60
6	E	375	LEU	CA-CB-CG	-6.61	100.11	115.30
6	E	621	GLU	C-N-CA	-6.60	105.20	121.70
6	E	280	ILE	CA-CB-CG1	-6.60	98.46	111.00
3	A	1041	LYS	CD-CE-NZ	-6.60	96.52	111.70
1	1	74	DT	O4'-C1'-N1	-6.59	103.38	108.00
2	2	37	DT	C6-N1-C2	6.59	124.59	121.30
3	A	455	GLN	C-N-CA	-6.58	105.24	121.70
7	F	21	LEU	CA-CB-CG	-6.58	100.16	115.30
6	E	382	GLU	CA-CB-CG	-6.58	98.92	113.40
4	B	1011	LEU	CB-CG-CD2	-6.58	99.82	111.00
9	X	172	LEU	CD1-CG-CD2	-6.57	90.78	110.50
6	E	521	THR	CA-CB-CG2	-6.57	103.20	112.40
2	2	49	DT	O4'-C4'-C3'	-6.56	101.88	104.50
4	B	832	LEU	CA-CB-CG	6.55	130.37	115.30
9	Y	202	MET	CA-CB-CG	6.54	124.43	113.30
1	1	119	DA	O5'-P-OP1	-6.54	99.82	105.70
3	A	561	ARG	CB-CG-CD	-6.53	94.62	111.60
3	A	629	SER	C-N-CA	-6.53	105.38	121.70
2	2	51	DT	O4'-C1'-C2'	-6.53	100.68	105.90
3	A	402	LEU	CA-CB-CG	-6.53	100.29	115.30
8	G	133	TRP	CA-CB-CG	-6.51	101.33	113.70
3	A	555	MET	CA-CB-CG	-6.51	102.23	113.30
3	A	488	LEU	CB-CG-CD2	-6.50	99.95	111.00
3	A	958	MET	CA-CB-CG	-6.49	102.27	113.30
3	A	964	THR	C-N-CA	-6.49	108.67	122.30
6	E	256	LEU	CB-CG-CD2	-6.49	99.97	111.00
9	Y	69	LEU	C-N-CA	6.49	137.92	121.70
3	A	937	GLN	C-N-CA	-6.49	105.49	121.70
3	A	931	ILE	CB-CA-C	-6.48	98.63	111.60
3	A	1090	GLU	N-CA-CB	-6.48	98.93	110.60
9	X	43	ARG	CB-CG-CD	6.48	128.45	111.60
1	1	70	DC	P-O3'-C3'	-6.48	111.93	119.70
3	A	868	ILE	CG1-CB-CG2	-6.48	97.15	111.40
9	X	69	LEU	C-N-CA	6.47	137.88	121.70
1	1	62	DT	C6-C5-C7	-6.47	119.02	122.90
3	A	545	LEU	CA-CB-CG	-6.46	100.44	115.30
4	B	105	LEU	CB-CG-CD2	-6.46	100.01	111.00
3	A	1093	ALA	C-N-CA	-6.46	105.55	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	118	DG	N3-C4-N9	-6.46	122.12	126.00
2	2	61	DT	P-O3'-C3'	6.46	127.45	119.70
6	E	491	MET	CB-CG-SD	-6.45	93.04	112.40
3	A	884	LEU	CB-CG-CD2	-6.44	100.05	111.00
5	D	171	MET	CB-CG-SD	-6.44	93.08	112.40
3	A	905	TRP	CD1-NE1-CE2	-6.44	103.20	109.00
8	G	130	ASP	CB-CG-OD1	-6.44	112.50	118.30
2	2	66	DA	C5-C6-N1	-6.44	114.48	117.70
4	B	932	ILE	CG1-CB-CG2	-6.44	97.24	111.40
5	C	171	MET	CB-CG-SD	-6.44	93.09	112.40
3	A	405	LEU	CB-CG-CD2	-6.43	100.06	111.00
3	A	677	GLY	N-CA-C	-6.43	97.03	113.10
4	B	1011	LEU	CB-CG-CD1	-6.42	100.09	111.00
6	E	140	VAL	CA-CB-CG1	-6.42	101.28	110.90
1	1	60	DT	N3-C4-O4	6.41	123.75	119.90
8	G	103	LEU	CA-CB-CG	-6.41	100.57	115.30
6	E	195	ARG	C-N-CA	-6.40	105.70	121.70
3	A	431	CYS	CA-CB-SG	-6.39	102.50	114.00
3	A	1006	LEU	C-N-CA	-6.38	108.91	122.30
2	2	9	DC	C6-N1-C2	6.38	122.85	120.30
2	2	12	DG	O4'-C4'-C3'	-6.38	101.95	104.50
3	A	142	VAL	CA-CB-CG2	-6.37	101.34	110.90
3	A	932	VAL	CG1-CB-CG2	-6.37	100.71	110.90
1	1	74	DT	C5-C4-O4	-6.37	120.44	124.90
1	1	120	DT	O5'-P-OP2	6.36	118.33	110.70
4	B	262	THR	CA-CB-CG2	-6.36	103.50	112.40
3	A	680	LEU	CB-CG-CD1	-6.35	100.20	111.00
6	E	35	VAL	CA-CB-CG2	-6.35	101.38	110.90
2	2	63	DC	P-O3'-C3'	-6.34	112.09	119.70
3	A	272	VAL	CG1-CB-CG2	-6.33	100.77	110.90
8	G	326	LEU	CB-CG-CD2	-6.33	100.24	111.00
8	G	285	SER	CB-CA-C	-6.33	98.07	110.10
3	A	804	LEU	CA-CB-CG	-6.32	100.77	115.30
1	1	72	DT	C6-N1-C2	6.31	124.46	121.30
1	1	73	DA	C8-N9-C4	6.31	108.33	105.80
3	A	676	GLU	C-N-CA	-6.30	109.07	122.30
3	A	738	ARG	O-C-N	-6.30	112.62	122.70
5	C	45	LEU	CA-CB-CG	-6.30	100.81	115.30
6	E	194	LEU	CB-CG-CD1	-6.29	100.31	111.00
6	E	359	ARG	CB-CA-C	-6.29	97.82	110.40
3	A	258	ASP	CB-CG-OD1	-6.29	112.64	118.30
5	D	45	LEU	CA-CB-CG	-6.29	100.84	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	715	THR	C-N-CA	-6.28	106.00	121.70
4	B	653	TYR	CB-CG-CD2	6.28	124.77	121.00
7	F	35	VAL	CG1-CB-CG2	-6.28	100.86	110.90
3	A	982	LEU	CB-CG-CD1	-6.27	100.34	111.00
1	1	97	DT	C5-C6-N1	-6.27	119.94	123.70
3	A	1037	LEU	CB-CG-CD2	-6.26	100.35	111.00
6	E	117	TYR	O-C-N	-6.26	112.68	122.70
4	B	172	TYR	CA-CB-CG	-6.26	101.51	113.40
1	1	115	DA	O5'-P-OP1	6.26	118.21	110.70
4	B	41	PHE	C-N-CA	-6.25	106.07	121.70
4	B	1019	GLU	CA-CB-CG	-6.25	99.65	113.40
4	B	232	LEU	CB-CG-CD1	-6.25	100.38	111.00
3	A	443	LEU	CB-CG-CD2	-6.25	100.38	111.00
5	C	85	VAL	CA-CB-CG2	-6.25	101.53	110.90
5	D	85	VAL	CA-CB-CG2	-6.24	101.54	110.90
1	1	100	DA	N1-C6-N6	-6.23	114.86	118.60
1	1	75	DA	C4-C5-N7	6.23	113.81	110.70
3	A	397	THR	CA-CB-CG2	-6.23	103.68	112.40
3	A	393	LEU	CB-CG-CD1	-6.23	100.41	111.00
6	E	510	SER	CA-CB-OG	-6.22	94.39	111.20
2	2	39	DT	C3'-C2'-C1'	-6.22	95.03	102.50
6	E	349	LEU	CA-CB-CG	-6.22	100.99	115.30
6	E	479	LEU	CA-CB-CG	-6.22	101.00	115.30
3	A	1042	SER	C-N-CA	-6.22	106.16	121.70
1	1	82	DT	C3'-C2'-C1'	-6.21	95.05	102.50
3	A	688	VAL	CG1-CB-CG2	-6.21	100.97	110.90
1	1	59	DT	N1-C2-O2	-6.20	118.14	123.10
6	E	363	VAL	CG1-CB-CG2	-6.20	100.99	110.90
6	E	490	LEU	CB-CG-CD2	-6.20	100.47	111.00
5	D	20	TYR	CA-CB-CG	-6.19	101.64	113.40
5	C	198	VAL	CG1-CB-CG2	-6.18	101.01	110.90
5	D	198	VAL	CG1-CB-CG2	-6.17	101.02	110.90
3	A	814	VAL	C-N-CA	-6.17	106.27	121.70
4	B	235	LEU	CB-CG-CD1	-6.17	100.51	111.00
7	F	21	LEU	CB-CG-CD2	-6.17	100.51	111.00
4	B	180	ARG	CA-CB-CG	-6.17	99.83	113.40
2	2	35	DA	C1'-O4'-C4'	-6.17	103.94	110.10
3	A	50	LEU	CB-CG-CD2	-6.17	100.52	111.00
1	1	75	DA	C5-C6-N1	6.16	120.78	117.70
3	A	425	SER	CA-CB-OG	-6.16	94.57	111.20
1	1	116	DC	OP1-P-OP2	-6.15	110.37	119.60
4	B	22	THR	CA-CB-CG2	-6.15	103.79	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	705	SER	CB-CA-C	-6.15	98.42	110.10
3	A	983	VAL	C-N-CA	-6.15	106.33	121.70
6	E	212	GLU	CA-CB-CG	-6.14	99.90	113.40
4	B	28	ARG	CA-CB-CG	-6.13	99.91	113.40
6	E	622	ALA	C-N-CA	-6.13	106.36	121.70
1	1	75	DA	OP2-P-O3'	6.13	118.69	105.20
3	A	557	SER	CA-CB-OG	-6.13	94.64	111.20
4	B	361	ARG	N-CA-C	6.13	127.56	111.00
4	B	617	ALA	C-N-CA	6.13	137.03	121.70
5	C	217	LEU	CB-CG-CD2	-6.13	100.58	111.00
4	B	32	MET	CA-CB-CG	-6.13	102.89	113.30
8	G	365	ILE	O-C-N	-6.12	112.90	122.70
2	2	30	DG	C1'-O4'-C4'	-6.12	103.98	110.10
5	D	217	LEU	CB-CG-CD2	-6.12	100.60	111.00
6	E	86	CYS	CA-CB-SG	6.12	125.01	114.00
1	1	61	DT	O4'-C1'-C2'	-6.11	101.01	105.90
1	1	62	DT	C3'-C2'-C1'	-6.10	95.18	102.50
4	B	562	TYR	CA-CB-CG	-6.10	101.81	113.40
1	1	62	DT	C1'-O4'-C4'	-6.10	104.00	110.10
1	1	118	DG	C4-N9-C1'	-6.10	118.57	126.50
3	A	594	THR	C-N-CA	-6.10	106.46	121.70
6	E	303	LYS	CA-CB-CG	-6.10	99.99	113.40
6	E	257	ARG	N-CA-C	-6.09	94.56	111.00
1	1	111	DT	O5'-P-OP2	-6.09	100.22	105.70
4	B	653	TYR	CA-CB-CG	6.09	124.97	113.40
2	2	67	DA	C2-N3-C4	-6.08	107.56	110.60
1	1	100	DA	N3-C4-C5	-6.08	122.54	126.80
6	E	251	VAL	CG1-CB-CG2	-6.08	101.17	110.90
8	G	199	ASP	CB-CG-OD1	-6.08	112.83	118.30
3	A	548	ASP	CB-CA-C	-6.08	98.25	110.40
2	2	44	DA	C1'-O4'-C4'	-6.07	104.03	110.10
3	A	138	VAL	CA-CB-CG1	-6.07	101.80	110.90
3	A	897	GLN	C-N-CA	-6.06	106.54	121.70
4	B	423	LEU	CB-CG-CD1	-6.06	100.69	111.00
3	A	816	ASP	CB-CA-C	-6.05	98.30	110.40
4	B	280	VAL	CA-CB-CG1	-6.05	101.83	110.90
5	D	197	GLU	CA-CB-CG	-6.05	100.09	113.40
4	B	1148	MET	CB-CG-SD	-6.04	94.28	112.40
8	G	129	ARG	CG-CD-NE	6.04	124.48	111.80
1	1	98	DG	C4'-C3'-C2'	-6.04	97.67	103.10
3	A	29	ASP	N-CA-CB	6.04	121.46	110.60
6	E	50	LEU	CB-CG-CD1	-6.04	100.74	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	C	197	GLU	CA-CB-CG	-6.03	100.13	113.40
1	1	86	DG	C8-N9-C4	6.03	108.81	106.40
1	1	62	DT	C6-N1-C2	6.03	124.31	121.30
6	E	473	MET	CA-CB-CG	-6.03	103.06	113.30
9	Y	123	LEU	CB-CG-CD2	-6.02	100.77	111.00
5	D	64	GLU	C-N-CA	-6.01	106.69	121.70
2	2	67	DA	C8-N9-C4	6.00	108.20	105.80
4	B	244	VAL	CA-CB-CG1	-6.00	101.90	110.90
4	B	866	VAL	CG1-CB-CG2	-6.00	101.30	110.90
7	F	29	TYR	CE1-CZ-CE2	6.00	129.40	119.80
4	B	268	LEU	CB-CG-CD1	-6.00	100.81	111.00
5	C	64	GLU	C-N-CA	-5.99	106.72	121.70
4	B	653	TYR	CZ-CE2-CD2	-5.99	114.41	119.80
3	A	447	LEU	CA-CB-CG	-5.99	101.53	115.30
6	E	541	VAL	CG1-CB-CG2	-5.98	101.33	110.90
6	E	562	GLY	N-CA-C	-5.98	98.15	113.10
4	B	325	GLU	CB-CG-CD	-5.98	98.05	114.20
4	B	631	TRP	CD1-NE1-CE2	-5.98	103.62	109.00
6	E	200	ILE	CG1-CB-CG2	-5.98	98.25	111.40
1	1	87	DA	C3'-C2'-C1'	-5.97	95.33	102.50
1	1	99	DT	O5'-P-OP2	5.97	117.86	110.70
3	A	716	SER	CA-CB-OG	-5.97	95.09	111.20
2	2	31	DA	O5'-P-OP1	-5.96	100.33	105.70
6	E	313	LEU	CB-CG-CD2	-5.96	100.87	111.00
8	G	315	LYS	CA-CB-CG	-5.96	100.29	113.40
3	A	1079	SER	CA-CB-OG	-5.96	95.11	111.20
4	B	255	GLU	CA-CB-CG	-5.95	100.31	113.40
4	B	1126	GLN	CA-CB-CG	-5.95	100.31	113.40
6	E	224	LEU	CA-CB-CG	-5.94	101.63	115.30
6	E	331	LEU	CA-CB-CG	-5.94	101.63	115.30
3	A	336	VAL	CG1-CB-CG2	-5.94	101.39	110.90
6	E	279	VAL	CB-CA-C	-5.94	100.11	111.40
1	1	74	DT	N3-C4-O4	5.93	123.46	119.90
3	A	719	ILE	CA-CB-CG1	-5.93	99.73	111.00
4	B	197	THR	CA-CB-OG1	-5.93	96.54	109.00
5	D	75	VAL	CG1-CB-CG2	-5.93	101.41	110.90
6	E	285	ARG	CA-CB-CG	-5.93	100.35	113.40
9	X	168	ILE	CG1-CB-CG2	-5.93	98.35	111.40
4	B	185	ASP	CB-CA-C	-5.93	98.54	110.40
5	C	75	VAL	CG1-CB-CG2	-5.93	101.41	110.90
6	E	515	LEU	CB-CG-CD1	-5.93	100.92	111.00
2	2	50	DG	C5-N7-C8	5.93	107.26	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	505	PRO	CA-N-CD	-5.92	103.20	111.50
4	B	496	LEU	CB-CG-CD1	-5.92	100.93	111.00
3	A	265	LYS	C-N-CA	-5.92	106.90	121.70
1	1	98	DG	O5'-P-OP1	-5.91	100.38	105.70
4	B	360	PRO	N-CA-C	5.91	127.47	112.10
4	B	271	GLU	CA-CB-CG	-5.91	100.40	113.40
9	Y	168	ILE	CG1-CB-CG2	-5.91	98.40	111.40
8	G	228	THR	CA-CB-CG2	-5.91	104.13	112.40
4	B	1225	ILE	CG1-CB-CG2	-5.90	98.41	111.40
4	B	238	ARG	CA-CB-CG	-5.90	100.42	113.40
5	C	174	ARG	CA-CB-CG	5.90	126.38	113.40
4	B	631	TRP	CG-CD1-NE1	5.89	115.99	110.10
6	E	332	LYS	CD-CE-NZ	-5.89	98.14	111.70
2	2	42	DT	C4-C5-C7	5.89	122.54	119.00
3	A	35	ARG	CG-CD-NE	-5.89	99.44	111.80
1	1	84	DA	C8-N9-C4	5.88	108.15	105.80
5	D	174	ARG	CA-CB-CG	5.88	126.34	113.40
1	1	63	DG	P-O3'-C3'	-5.88	112.64	119.70
3	A	815	VAL	CA-CB-CG2	-5.88	102.08	110.90
8	G	130	ASP	CB-CG-OD2	5.88	123.59	118.30
1	1	98	DG	O5'-P-OP2	5.88	117.76	110.70
3	A	395	GLU	CB-CA-C	-5.88	98.64	110.40
3	A	880	VAL	CA-CB-CG1	-5.88	102.08	110.90
1	1	76	DC	O5'-P-OP1	-5.88	100.41	105.70
1	1	118	DG	N9-C4-C5	5.88	107.75	105.40
6	E	388	VAL	CG1-CB-CG2	-5.88	101.50	110.90
4	B	840	LEU	CA-CB-CG	5.87	128.81	115.30
2	2	68	DT	O5'-P-OP2	-5.87	100.42	105.70
3	A	1086	VAL	CA-CB-CG2	-5.87	102.10	110.90
5	C	169	ILE	CA-CB-CG1	-5.87	99.85	111.00
6	E	497	ILE	C-N-CA	-5.87	107.04	121.70
2	2	46	DT	C3'-C2'-C1'	-5.86	95.46	102.50
4	B	608	GLY	N-CA-C	5.86	127.76	113.10
6	E	277	ARG	CB-CG-CD	-5.86	96.36	111.60
1	1	98	DG	O4'-C1'-N9	-5.85	103.90	108.00
7	F	60	ARG	CB-CG-CD	-5.85	96.39	111.60
2	2	4	DG	O4'-C4'-C3'	-5.84	102.17	104.50
5	D	169	ILE	CA-CB-CG1	-5.83	99.92	111.00
6	E	477	VAL	CA-CB-CG1	-5.83	102.15	110.90
3	A	844	ARG	CB-CA-C	-5.83	98.74	110.40
6	E	296	GLU	C-N-CA	-5.83	107.13	121.70
1	1	115	DA	N1-C2-N3	5.82	132.21	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	B	175	SER	N-CA-CB	-5.82	101.77	110.50
4	B	201	VAL	CA-CB-CG1	-5.82	102.17	110.90
3	A	399	LYS	CA-CB-CG	-5.81	100.61	113.40
1	1	113	DT	N3-C4-O4	5.81	123.39	119.90
1	1	122	DC	C6-N1-C2	5.81	122.62	120.30
5	C	196	LEU	CB-CG-CD2	-5.81	101.13	111.00
6	E	138	GLN	C-N-CA	-5.81	107.19	121.70
5	D	68	VAL	CG1-CB-CG2	-5.80	101.61	110.90
4	B	65	LEU	CB-CG-CD1	-5.80	101.14	111.00
6	E	118	LEU	CB-CG-CD2	-5.80	101.14	111.00
6	E	488	ARG	CB-CA-C	-5.80	98.80	110.40
2	2	53	DT	C6-N1-C2	5.80	124.20	121.30
5	D	171	MET	C-N-CD	-5.79	107.86	120.60
4	B	1145	VAL	CA-CB-CG2	-5.79	102.22	110.90
1	1	88	DA	C8-N9-C4	5.79	108.12	105.80
5	C	68	VAL	CG1-CB-CG2	-5.78	101.65	110.90
3	A	403	SER	CB-CA-C	-5.78	99.11	110.10
1	1	81	DT	C5-C4-O4	-5.78	120.85	124.90
5	C	171	MET	C-N-CD	-5.78	107.88	120.60
6	E	260	VAL	CA-CB-CG2	-5.78	102.23	110.90
4	B	200	LEU	CB-CG-CD1	-5.78	101.18	111.00
5	D	196	LEU	CB-CG-CD2	-5.77	101.19	111.00
2	2	66	DA	C8-N9-C4	5.77	108.11	105.80
5	D	174	ARG	CG-CD-NE	5.77	123.92	111.80
1	1	121	DG	OP2-P-O3'	5.77	117.89	105.20
4	B	645	LEU	CB-CG-CD1	-5.77	101.19	111.00
3	A	815	VAL	CA-CB-CG1	-5.76	102.25	110.90
4	B	1239	VAL	CA-CB-CG2	-5.76	102.26	110.90
6	E	262	LEU	CB-CG-CD2	-5.76	101.20	111.00
3	A	490	VAL	C-N-CA	-5.76	107.30	121.70
3	A	1086	VAL	C-N-CA	-5.75	107.31	121.70
8	G	114	GLU	C-N-CA	-5.75	107.31	121.70
1	1	63	DG	C2-N3-C4	-5.75	109.02	111.90
4	B	627	GLY	N-CA-C	-5.75	98.72	113.10
5	D	185	ALA	N-CA-C	-5.75	95.47	111.00
6	E	297	ILE	CG1-CB-CG2	-5.75	98.75	111.40
3	A	691	MET	CG-SD-CE	-5.75	91.00	100.20
5	C	174	ARG	CG-CD-NE	5.75	123.87	111.80
6	E	361	VAL	CA-CB-CG1	-5.75	102.28	110.90
4	B	791	LEU	CA-CB-CG	-5.74	102.09	115.30
4	B	240	LEU	CA-CB-CG	-5.74	102.10	115.30
2	2	47	DT	OP1-P-O3'	5.74	117.82	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	50	LEU	C-N-CA	-5.74	107.36	121.70
3	A	521	PRO	C-N-CA	-5.73	107.36	121.70
3	A	512	TYR	CB-CG-CD1	-5.73	117.56	121.00
4	B	243	VAL	CA-CB-CG2	-5.73	102.30	110.90
3	A	850	ASP	CB-CG-OD2	-5.73	113.14	118.30
6	E	392	LEU	CB-CG-CD1	-5.73	101.26	111.00
3	A	136	VAL	CG1-CB-CG2	-5.72	101.74	110.90
1	1	119	DA	C1'-O4'-C4'	-5.72	104.38	110.10
1	1	84	DA	O4'-C1'-N9	-5.72	104.00	108.00
5	D	76	LEU	CA-CB-CG	-5.72	102.15	115.30
4	B	105	LEU	CA-CB-CG	-5.71	102.16	115.30
8	G	204	TYR	CG-CD2-CE2	-5.71	116.73	121.30
8	G	204	TYR	OH-CZ-CE2	5.71	135.52	120.10
1	1	93	DT	O5'-P-OP1	-5.71	100.56	105.70
3	A	638	THR	CA-CB-CG2	-5.71	104.41	112.40
5	C	76	LEU	CA-CB-CG	-5.71	102.18	115.30
2	2	38	DT	C3'-C2'-C1'	-5.70	95.66	102.50
6	E	563	ASP	CB-CG-OD1	-5.70	113.17	118.30
2	2	68	DT	N3-C4-O4	5.70	123.32	119.90
5	C	46	SER	CA-CB-OG	-5.69	95.83	111.20
3	A	169	ARG	CG-CD-NE	-5.69	99.85	111.80
6	E	360	SER	CA-CB-OG	-5.69	95.84	111.20
9	Y	122	MET	CB-CG-SD	-5.69	95.34	112.40
2	2	42	DT	N1-C1'-C2'	5.69	123.40	112.60
2	2	43	DG	O5'-P-OP2	-5.68	100.58	105.70
5	D	46	SER	CA-CB-OG	-5.68	95.86	111.20
6	E	477	VAL	CG1-CB-CG2	-5.68	101.81	110.90
6	E	313	LEU	CA-CB-CG	-5.68	102.25	115.30
2	2	53	DT	C5-C4-O4	-5.67	120.93	124.90
6	E	538	LEU	CA-C-O	-5.67	108.19	120.10
3	A	769	LEU	CB-CG-CD1	-5.67	101.36	111.00
1	1	121	DG	O4'-C1'-N9	-5.67	104.03	108.00
3	A	575	GLY	C-N-CA	-5.67	107.53	121.70
3	A	838	VAL	CA-CB-CG1	-5.67	102.40	110.90
3	A	993	ARG	C-N-CA	-5.66	107.54	121.70
4	B	282	VAL	CA-CB-CG2	-5.66	102.42	110.90
4	B	653	TYR	CD1-CE1-CZ	5.65	124.89	119.80
9	Y	122	MET	CG-SD-CE	5.65	109.25	100.20
5	D	87	LEU	CB-CG-CD2	-5.65	101.39	111.00
6	E	483	SER	CA-CB-OG	-5.65	95.94	111.20
3	A	959	VAL	C-N-CA	-5.65	107.58	121.70
3	A	256	LEU	CA-CB-CG	-5.65	102.31	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	343	LEU	CB-CG-CD2	-5.65	101.40	111.00
5	C	87	LEU	CB-CG-CD2	-5.65	101.40	111.00
9	Y	218	LEU	CA-CB-CG	-5.65	102.31	115.30
6	E	516	GLY	N-CA-C	-5.65	98.98	113.10
3	A	308	GLU	C-N-CA	5.64	135.81	121.70
3	A	591	VAL	CA-CB-CG2	-5.64	102.44	110.90
4	B	1119	THR	CA-CB-CG2	-5.64	104.50	112.40
6	E	245	VAL	N-CA-C	-5.64	95.77	111.00
4	B	79	ARG	CB-CG-CD	-5.63	96.95	111.60
2	2	66	DA	N3-C4-C5	5.63	130.74	126.80
3	A	585	ASP	CB-CG-OD1	-5.63	113.23	118.30
4	B	722	LEU	CA-CB-CG	5.63	128.25	115.30
3	A	524	VAL	CG1-CB-CG2	-5.63	101.90	110.90
1	1	100	DA	C6-N1-C2	-5.62	115.23	118.60
2	2	50	DG	O4'-C1'-C2'	-5.62	101.40	105.90
5	D	126	TYR	C-N-CA	-5.62	107.64	121.70
6	E	363	VAL	CB-CA-C	-5.62	100.73	111.40
4	B	526	PRO	N-CA-C	-5.61	97.50	112.10
6	E	278	ARG	CA-CB-CG	-5.61	101.05	113.40
1	1	89	DA	C1'-O4'-C4'	-5.61	104.50	110.10
4	B	223	ARG	CB-CA-C	-5.61	99.19	110.40
7	F	33	VAL	CA-CB-CG1	-5.61	102.49	110.90
2	2	9	DC	O4'-C1'-N1	-5.60	104.08	108.00
3	A	27	LEU	CA-CB-CG	-5.60	102.42	115.30
3	A	1042	SER	CA-CB-OG	-5.59	96.09	111.20
3	A	852	MET	CG-SD-CE	-5.59	91.25	100.20
8	G	183	LEU	CB-CG-CD1	-5.58	101.51	111.00
1	1	63	DG	C8-N9-C4	5.58	108.63	106.40
1	1	104	DT	P-O3'-C3'	-5.58	113.00	119.70
4	B	424	LEU	CA-CB-CG	-5.58	102.47	115.30
3	A	681	ALA	C-N-CA	-5.58	107.76	121.70
4	B	1071	MET	N-CA-C	5.57	126.05	111.00
2	2	3	DT	O5'-P-OP2	-5.57	100.69	105.70
6	E	103	MET	C-N-CA	-5.57	110.60	122.30
4	B	259	PRO	C-N-CA	-5.57	107.78	121.70
2	2	48	DT	OP1-P-O3'	5.57	117.44	105.20
4	B	1118	GLN	CA-CB-CG	-5.56	101.16	113.40
3	A	848	VAL	CA-CB-CG1	-5.56	102.56	110.90
3	A	973	THR	CB-CA-C	-5.56	96.60	111.60
4	B	177	TYR	CB-CA-C	-5.56	99.28	110.40
1	1	95	DT	C5-C4-O4	-5.56	121.01	124.90
6	E	231	ILE	CA-CB-CG1	-5.55	100.44	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	51	ASN	O-C-N	-5.55	113.81	122.70
1	1	103	DA	O4'-C4'-C3'	-5.55	102.28	104.50
8	G	318	LEU	CB-CG-CD1	-5.55	101.56	111.00
2	2	39	DT	C5-C4-O4	-5.55	121.02	124.90
3	A	903	LEU	CB-CG-CD1	-5.55	101.56	111.00
4	B	653	TYR	CD1-CG-CD2	-5.55	111.80	117.90
1	1	65	DA	P-O3'-C3'	-5.54	113.05	119.70
3	A	720	GLU	OE1-CD-OE2	5.54	129.95	123.30
4	B	209	ILE	CA-CB-CG1	-5.54	100.47	111.00
1	1	86	DG	O4'-C1'-N9	-5.54	104.12	108.00
3	A	941	ASP	CB-CG-OD2	5.54	123.28	118.30
1	1	110	DC	O4'-C1'-N1	5.54	111.88	108.00
4	B	465	ASP	CB-CG-OD2	5.53	123.28	118.30
3	A	880	VAL	CG1-CB-CG2	-5.53	102.06	110.90
7	F	29	TYR	CA-CB-CG	5.52	123.89	113.40
9	Y	170	ILE	CG1-CB-CG2	-5.52	99.25	111.40
2	2	34	DA	O4'-C1'-N9	5.52	111.87	108.00
9	X	170	ILE	CG1-CB-CG2	-5.52	99.25	111.40
3	A	223	ILE	N-CA-C	-5.52	96.09	111.00
3	A	662	ARG	NE-CZ-NH2	-5.52	117.54	120.30
3	A	433	ILE	CG1-CB-CG2	-5.52	99.26	111.40
3	A	130	ILE	CG1-CB-CG2	-5.52	99.26	111.40
3	A	434	GLU	CA-CB-CG	-5.52	101.26	113.40
3	A	673	SER	CA-CB-OG	-5.52	96.30	111.20
4	B	1227	GLY	C-N-CA	-5.52	107.91	121.70
1	1	91	DT	C6-N1-C2	5.52	124.06	121.30
3	A	865	ILE	C-N-CA	-5.52	107.91	121.70
1	1	118	DG	N9-C1'-C2'	5.51	123.07	112.60
3	A	759	ILE	C-N-CA	-5.51	110.73	122.30
4	B	479	LEU	CA-CB-CG	5.51	127.97	115.30
6	E	615	TYR	CB-CG-CD2	-5.51	117.69	121.00
5	C	198	VAL	CA-CB-CG1	-5.51	102.64	110.90
3	A	805	ARG	CG-CD-NE	-5.51	100.23	111.80
4	B	250	HIS	CA-CB-CG	-5.51	104.24	113.60
1	1	86	DG	OP2-P-O3'	5.50	117.31	105.20
3	A	63	LEU	CB-CG-CD1	-5.50	101.64	111.00
3	A	762	TRP	CA-CB-CG	-5.50	103.24	113.70
4	B	1254	TYR	CB-CG-CD2	-5.50	117.70	121.00
6	E	195	ARG	CA-CB-CG	-5.50	101.30	113.40
3	A	998	TYR	CB-CG-CD1	-5.50	117.70	121.00
3	A	381	SER	N-CA-C	-5.50	96.15	111.00
2	2	66	DA	N9-C4-C5	5.49	108.00	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	2	67	DA	C4'-C3'-C2'	-5.49	98.16	103.10
3	A	941	ASP	C-N-CA	-5.49	107.97	121.70
5	D	198	VAL	CA-CB-CG1	-5.49	102.66	110.90
7	F	32	THR	CA-CB-CG2	-5.49	104.71	112.40
1	1	79	DA	O4'-C1'-N9	5.49	111.84	108.00
4	B	66	LEU	CA-CB-CG	-5.49	102.67	115.30
4	B	1070	ALA	C-N-CA	5.49	135.43	121.70
2	2	4	DG	O4'-C1'-N9	-5.49	104.16	108.00
4	B	244	VAL	CA-CB-CG2	-5.48	102.67	110.90
4	B	99	ASN	C-N-CA	-5.48	110.78	122.30
5	C	199	TRP	C-N-CA	-5.48	108.00	121.70
6	E	310	VAL	CB-CA-C	-5.48	100.99	111.40
5	D	199	TRP	C-N-CA	-5.47	108.02	121.70
3	A	976	VAL	CG1-CB-CG2	-5.47	102.15	110.90
4	B	1143	VAL	CA-CB-CG1	-5.47	102.70	110.90
6	E	484	GLN	CA-CB-CG	-5.46	101.38	113.40
2	2	39	DT	N3-C4-O4	5.46	123.18	119.90
3	A	1044	ASP	CB-CG-OD1	5.46	123.21	118.30
1	1	81	DT	C3'-C2'-C1'	-5.45	95.96	102.50
1	1	83	DC	C6-N1-C2	5.45	122.48	120.30
3	A	422	ILE	CA-CB-CG1	-5.45	100.64	111.00
9	X	171	ASP	C-N-CA	5.45	135.33	121.70
5	D	192	ASP	C-N-CA	-5.45	108.08	121.70
3	A	347	ILE	CA-CB-CG1	-5.44	100.66	111.00
6	E	251	VAL	CA-CB-CG2	-5.44	102.74	110.90
1	1	82	DT	O4'-C1'-C2'	-5.44	101.55	105.90
5	C	192	ASP	C-N-CA	-5.44	108.11	121.70
1	1	92	DT	C1'-O4'-C4'	-5.43	104.67	110.10
8	G	102	GLU	OE1-CD-OE2	-5.43	116.78	123.30
6	E	418	VAL	CG1-CB-CG2	-5.43	102.21	110.90
6	E	615	TYR	N-CA-CB	-5.43	100.83	110.60
6	E	310	VAL	CA-CB-CG2	-5.43	102.76	110.90
6	E	349	LEU	C-N-CA	-5.43	108.13	121.70
6	E	473	MET	CG-SD-CE	-5.43	91.52	100.20
1	1	84	DA	N1-C6-N6	5.42	121.86	118.60
2	2	38	DT	O4'-C1'-C2'	-5.42	101.56	105.90
8	G	321	ASP	CB-CG-OD1	-5.42	113.42	118.30
1	1	102	DA	C8-N9-C4	5.42	107.97	105.80
3	A	608	VAL	CA-CB-CG1	-5.41	102.78	110.90
4	B	1117	VAL	CG1-CB-CG2	-5.41	102.24	110.90
6	E	244	MET	C-N-CA	-5.41	108.17	121.70
1	1	62	DT	C4'-C3'-C2'	-5.41	98.23	103.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	616	THR	N-CA-CB	-5.41	100.02	110.30
3	A	961	ASP	CB-CG-OD1	-5.41	113.43	118.30
3	A	43	GLU	C-N-CA	-5.40	108.20	121.70
6	E	494	SER	CA-CB-OG	-5.40	96.62	111.20
1	1	74	DT	OP1-P-O3'	-5.40	93.33	105.20
2	2	43	DG	C8-N9-C4	5.40	108.56	106.40
9	X	184	GLY	N-CA-C	-5.39	99.61	113.10
4	B	45	THR	CA-CB-CG2	-5.39	104.86	112.40
4	B	1017	LEU	CA-CB-CG	-5.38	102.92	115.30
3	A	442	GLY	C-N-CA	-5.38	108.25	121.70
8	G	139	LEU	CA-CB-CG	5.38	127.68	115.30
1	1	105	DG	P-O5'-C5'	-5.38	112.29	120.90
4	B	265	SER	CA-CB-OG	-5.38	96.68	111.20
3	A	1069	SER	CA-CB-OG	-5.37	96.69	111.20
5	C	81	ARG	CA-CB-CG	-5.37	101.58	113.40
2	2	8	DC	O5'-P-OP2	-5.37	100.86	105.70
4	B	95	ILE	C-N-CA	-5.37	108.27	121.70
4	B	1254	TYR	N-CA-CB	-5.37	100.93	110.60
1	1	59	DT	N3-C2-O2	5.37	125.52	122.30
1	1	79	DA	C8-N9-C4	5.37	107.95	105.80
3	A	501	GLY	N-CA-C	-5.37	99.68	113.10
3	A	46	LEU	CB-CG-CD1	-5.37	101.88	111.00
3	A	290	ARG	CG-CD-NE	-5.36	100.54	111.80
4	B	29	THR	CA-CB-CG2	-5.36	104.89	112.40
6	E	538	LEU	CA-C-N	-5.36	105.40	117.20
2	2	46	DT	C6-N1-C2	5.36	123.98	121.30
5	D	81	ARG	CA-CB-CG	-5.36	101.61	113.40
3	A	1039	THR	CA-CB-CG2	-5.36	104.90	112.40
3	A	527	VAL	CA-CB-CG1	-5.36	102.86	110.90
2	2	33	DA	C8-N9-C4	5.36	107.94	105.80
5	D	141	ARG	CA-CB-CG	-5.36	101.62	113.40
3	A	510	VAL	C-N-CA	-5.35	108.32	121.70
5	D	120	VAL	C-N-CA	-5.35	108.33	121.70
5	C	141	ARG	CA-CB-CG	-5.35	101.64	113.40
8	G	201	GLU	N-CA-C	-5.35	96.56	111.00
3	A	296	ASP	CB-CG-OD1	-5.34	113.49	118.30
3	A	675	THR	CB-CA-C	-5.34	97.17	111.60
5	C	120	VAL	C-N-CA	-5.34	108.34	121.70
6	E	514	VAL	CA-CB-CG1	-5.34	102.88	110.90
5	C	141	ARG	CB-CG-CD	-5.34	97.71	111.60
3	A	181	ASP	CB-CG-OD1	5.34	123.11	118.30
4	B	1221	THR	C-N-CA	-5.34	108.34	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	D	141	ARG	CB-CG-CD	-5.34	97.72	111.60
3	A	81	VAL	CG1-CB-CG2	-5.34	102.36	110.90
3	A	490	VAL	CA-CB-CG2	-5.34	102.90	110.90
3	A	1074	MET	CB-CG-SD	-5.33	96.40	112.40
6	E	546	GLN	C-N-CA	-5.33	108.36	121.70
4	B	1011	LEU	CB-CA-C	-5.33	100.07	110.20
3	A	561	ARG	CB-CA-C	-5.33	99.74	110.40
6	E	252	ILE	CA-CB-CG1	-5.33	100.88	111.00
4	B	173	ILE	CA-CB-CG1	-5.33	100.88	111.00
3	A	26	LEU	CB-CG-CD2	-5.32	101.96	111.00
4	B	168	THR	CA-CB-CG2	-5.32	104.96	112.40
1	1	77	DA	C3'-C2'-C1'	-5.31	96.12	102.50
3	A	114	VAL	CG1-CB-CG2	-5.31	102.40	110.90
3	A	903	LEU	CA-CB-CG	-5.31	103.09	115.30
2	2	53	DT	C3'-C2'-C1'	-5.31	96.13	102.50
4	B	832	LEU	CB-CG-CD2	-5.31	101.98	111.00
6	E	393	ILE	CA-CB-CG1	-5.30	100.92	111.00
1	1	100	DA	OP1-P-OP2	5.30	127.55	119.60
3	A	688	VAL	CA-CB-CG1	-5.30	102.95	110.90
6	E	612	ARG	C-N-CA	-5.30	108.45	121.70
5	C	179	SER	CA-CB-OG	-5.30	96.89	111.20
5	D	179	SER	CA-CB-OG	-5.30	96.89	111.20
5	C	56	VAL	CA-CB-CG2	-5.30	102.95	110.90
6	E	339	GLU	CB-CA-C	-5.29	99.81	110.40
4	B	1143	VAL	CA-CB-CG2	-5.29	102.96	110.90
3	A	51	ASN	C-N-CA	-5.29	108.47	121.70
3	A	384	SER	C-N-CA	-5.29	108.47	121.70
5	D	56	VAL	CA-CB-CG2	-5.29	102.96	110.90
6	E	619	ILE	CB-CA-C	-5.29	101.02	111.60
4	B	239	LEU	CB-CA-C	-5.29	100.15	110.20
1	1	74	DT	OP2-P-O3'	5.29	116.83	105.20
3	A	789	ARG	CB-CG-CD	-5.29	97.86	111.60
1	1	101	DT	C4'-C3'-C2'	-5.28	98.34	103.10
2	2	33	DA	OP1-P-O3'	5.28	116.82	105.20
2	2	36	DT	C6-N1-C2	5.28	123.94	121.30
2	2	28	DC	P-O3'-C3'	5.28	126.03	119.70
1	1	64	DT	P-O3'-C3'	-5.28	113.37	119.70
6	E	363	VAL	CA-CB-CG2	-5.27	102.99	110.90
6	E	296	GLU	CA-CB-CG	-5.27	101.80	113.40
4	B	170	THR	CA-CB-CG2	-5.27	105.02	112.40
4	B	1087	PRO	CA-N-CD	5.27	119.08	111.70
8	G	204	TYR	CE1-CZ-CE2	5.26	128.22	119.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	59	DT	N3-C4-O4	5.26	123.06	119.90
5	D	85	VAL	CA-CB-CG1	-5.26	103.01	110.90
2	2	50	DG	N9-C4-C5	-5.26	103.30	105.40
6	E	480	SER	CB-CA-C	-5.26	100.11	110.10
3	A	882	ILE	CB-CG1-CD1	-5.25	99.20	113.90
3	A	1090	GLU	N-CA-C	5.25	125.18	111.00
1	1	91	DT	O4'-C1'-N1	-5.25	104.33	108.00
4	B	268	LEU	CA-CB-CG	-5.25	103.23	115.30
2	2	29	DA	O5'-P-OP2	-5.25	100.98	105.70
3	A	399	LYS	C-N-CA	-5.24	108.59	121.70
1	1	72	DT	O4'-C4'-C3'	-5.24	102.40	104.50
3	A	78	LYS	CD-CE-NZ	5.24	123.75	111.70
4	B	1122	VAL	CA-CB-CG2	-5.24	103.04	110.90
1	1	77	DA	N7-C8-N9	-5.23	111.18	113.80
4	B	656	ALA	O-C-N	5.23	132.10	123.20
6	E	278	ARG	C-N-CA	-5.23	108.61	121.70
3	A	901	CYS	CA-CB-SG	-5.23	104.58	114.00
5	D	42	ARG	C-N-CA	-5.23	108.62	121.70
5	C	42	ARG	C-N-CA	-5.23	108.62	121.70
5	C	85	VAL	CA-CB-CG1	-5.23	103.06	110.90
7	F	29	TYR	CD1-CE1-CZ	-5.23	115.09	119.80
6	E	587	LEU	CB-CG-CD2	-5.22	102.12	111.00
2	2	4	DG	C3'-C2'-C1'	-5.22	96.23	102.50
3	A	980	LEU	N-CA-CB	-5.22	99.95	110.40
3	A	814	VAL	CA-CB-CG1	-5.22	103.07	110.90
1	1	104	DT	C5-C6-N1	-5.22	120.57	123.70
2	2	61	DT	C1'-O4'-C4'	-5.22	104.88	110.10
3	A	731	LEU	CA-CB-CG	-5.22	103.30	115.30
4	B	169	VAL	CA-CB-CG2	-5.21	103.08	110.90
1	1	91	DT	C5-C4-O4	-5.21	121.25	124.90
5	C	216	ILE	CA-CB-CG1	-5.21	101.10	111.00
8	G	297	ARG	NE-CZ-NH1	5.21	122.90	120.30
3	A	609	ARG	N-CA-CB	-5.21	101.23	110.60
3	A	554	LEU	CA-CB-CG	-5.20	103.34	115.30
4	B	1127	MET	CA-CB-CG	-5.20	104.46	113.30
1	1	83	DC	O4'-C4'-C3'	-5.20	102.42	104.50
4	B	510	LEU	CB-CG-CD1	5.20	119.83	111.00
5	D	216	ILE	CA-CB-CG1	-5.20	101.13	111.00
1	1	123	DA	O4'-C4'-C3'	-5.19	102.42	104.50
3	A	933	HIS	C-N-CA	-5.19	111.40	122.30
3	A	287	ASP	CB-CG-OD1	-5.19	113.63	118.30
3	A	990	ILE	C-N-CA	-5.19	108.73	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E	391	ARG	C-N-CA	-5.19	108.73	121.70
6	E	546	GLN	CB-CA-C	-5.18	100.03	110.40
4	B	1016	GLU	C-N-CA	-5.18	108.75	121.70
3	A	1040	VAL	CA-CB-CG1	-5.18	103.13	110.90
9	Y	96	THR	N-CA-C	-5.18	97.02	111.00
3	A	97	VAL	CA-CB-CG1	-5.18	103.14	110.90
3	A	848	VAL	CG1-CB-CG2	-5.17	102.62	110.90
5	C	81	ARG	CG-CD-NE	-5.17	100.94	111.80
6	E	333	SER	CB-CA-C	-5.17	100.27	110.10
3	A	529	VAL	CA-CB-CG1	-5.17	103.14	110.90
4	B	1129	TYR	C-N-CA	-5.17	108.78	121.70
1	1	106	DG	N3-C4-N9	-5.17	122.90	126.00
1	1	103	DA	OP1-P-OP2	-5.17	111.85	119.60
4	B	332	MET	CB-CG-SD	-5.16	96.91	112.40
6	E	245	VAL	CA-CB-CG2	-5.16	103.15	110.90
9	X	96	THR	N-CA-C	-5.16	97.07	111.00
4	B	282	VAL	CG1-CB-CG2	-5.16	102.65	110.90
1	1	121	DG	OP1-P-OP2	5.15	127.33	119.60
3	A	837	ARG	CB-CG-CD	-5.15	98.20	111.60
4	B	32	MET	CG-SD-CE	-5.15	91.96	100.20
4	B	1018	LEU	CB-CG-CD1	-5.15	102.25	111.00
2	2	38	DT	C4'-C3'-C2'	-5.15	98.47	103.10
3	A	973	THR	CA-CB-CG2	-5.15	105.19	112.40
6	E	428	VAL	CA-CB-CG2	-5.15	103.18	110.90
2	2	66	DA	C5-N7-C8	-5.15	101.33	103.90
4	B	1151	LYS	CA-CB-CG	-5.14	102.08	113.40
1	1	95	DT	C1'-O4'-C4'	-5.14	104.96	110.10
4	B	986	ASP	CB-CG-OD1	5.14	122.93	118.30
1	1	119	DA	O4'-C4'-C3'	-5.14	102.44	104.50
4	B	1145	VAL	CA-CB-CG1	-5.14	103.19	110.90
2	2	51	DT	C6-C5-C7	-5.14	119.82	122.90
5	D	81	ARG	CG-CD-NE	-5.14	101.02	111.80
2	2	58	DA	N1-C2-N3	-5.13	126.73	129.30
1	1	62	DT	N1-C2-N3	-5.13	111.52	114.60
6	E	422	VAL	CG1-CB-CG2	-5.13	102.70	110.90
1	1	95	DT	C6-N1-C2	5.12	123.86	121.30
3	A	183	VAL	CA-CB-CG2	-5.12	103.22	110.90
1	1	61	DT	OP2-P-O3'	5.12	116.46	105.20
3	A	842	GLN	N-CA-CB	-5.12	101.39	110.60
4	B	325	GLU	CA-CB-CG	5.12	124.66	113.40
1	1	111	DT	N3-C4-O4	5.11	122.97	119.90
4	B	35	LYS	CB-CG-CD	5.11	124.89	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	D	195	LEU	CB-CG-CD1	5.11	119.68	111.00
6	E	51	LYS	C-N-CD	-5.10	109.38	120.60
1	1	94	DT	C1'-O4'-C4'	-5.10	105.00	110.10
6	E	418	VAL	CA-CB-CG2	-5.10	103.25	110.90
5	C	195	LEU	CB-CG-CD1	5.10	119.66	111.00
6	E	388	VAL	CA-CB-CG2	-5.09	103.26	110.90
4	B	1228	LYS	CB-CG-CD	-5.09	98.38	111.60
8	G	319	ARG	CB-CA-C	-5.09	100.23	110.40
7	F	38	ARG	CB-CG-CD	-5.08	98.38	111.60
1	1	95	DT	O5'-P-OP1	-5.08	101.13	105.70
3	A	940	ARG	CB-CA-C	-5.08	100.24	110.40
1	1	79	DA	N1-C2-N3	-5.08	126.76	129.30
2	2	61	DT	C4'-C3'-C2'	-5.07	98.53	103.10
3	A	396	LEU	C-N-CA	-5.07	109.02	121.70
3	A	130	ILE	CA-CB-CG1	-5.07	101.37	111.00
4	B	198	ARG	CB-CG-CD	-5.06	98.43	111.60
3	A	1041	LYS	C-N-CA	-5.06	109.04	121.70
4	B	1221	THR	CA-CB-OG1	-5.06	98.37	109.00
3	A	882	ILE	CB-CA-C	-5.06	101.48	111.60
3	A	854	GLY	C-N-CA	-5.05	109.07	121.70
6	E	50	LEU	CB-CG-CD2	-5.05	102.41	111.00
1	1	80	DA	C4'-C3'-C2'	-5.05	98.56	103.10
3	A	512	TYR	CA-CB-CG	-5.05	103.81	113.40
2	2	61	DT	C3'-C2'-C1'	-5.05	96.44	102.50
3	A	329	GLY	N-CA-C	-5.04	100.49	113.10
3	A	564	VAL	CG1-CB-CG2	-5.04	102.83	110.90
5	C	168	SER	CB-CA-C	-5.04	100.52	110.10
5	D	87	LEU	CB-CA-C	-5.04	100.62	110.20
5	D	168	SER	CB-CA-C	-5.04	100.52	110.10
6	E	590	TYR	C-N-CA	-5.04	109.09	121.70
1	1	72	DT	C5-C4-O4	-5.04	121.37	124.90
5	C	195	LEU	CB-CG-CD2	-5.04	102.44	111.00
3	A	683	GLY	N-CA-C	-5.04	100.51	113.10
4	B	369	ARG	CG-CD-NE	5.04	122.38	111.80
6	E	386	PRO	CA-N-CD	-5.03	104.45	111.50
1	1	95	DT	O4'-C1'-C2'	-5.03	101.87	105.90
1	1	62	DT	N3-C4-O4	5.03	122.92	119.90
6	E	385	GLN	C-N-CD	5.03	138.97	128.40
4	B	856	SER	CB-CA-C	-5.03	100.55	110.10
6	E	252	ILE	CG1-CB-CG2	-5.03	100.34	111.40
1	1	113	DT	C5-C4-O4	-5.03	121.38	124.90
5	C	196	LEU	CA-CB-CG	-5.03	103.73	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	D	196	LEU	CA-CB-CG	-5.03	103.73	115.30
6	E	380	ALA	C-N-CA	-5.03	109.13	121.70
3	A	256	LEU	CB-CG-CD2	-5.03	102.46	111.00
2	2	9	DC	C2-N3-C4	-5.02	117.39	119.90
5	D	43	VAL	CA-CB-CG1	-5.02	103.37	110.90
5	D	195	LEU	CB-CG-CD2	-5.02	102.46	111.00
4	B	610	GLU	C-N-CA	5.02	134.24	121.70
3	A	718	HIS	CB-CA-C	-5.02	100.37	110.40
1	1	116	DC	O5'-P-OP1	5.01	116.72	110.70
6	E	230	VAL	CG1-CB-CG2	-5.01	102.88	110.90
3	A	767	ASP	CB-CG-OD1	-5.01	113.79	118.30
5	C	87	LEU	CB-CA-C	-5.01	100.68	110.20
1	1	91	DT	N3-C4-O4	5.01	122.90	119.90
4	B	271	GLU	OE1-CD-OE2	5.00	129.30	123.30
4	B	1225	ILE	CA-CB-CG1	-5.00	101.49	111.00
6	E	586	VAL	CG1-CB-CG2	-5.00	102.89	110.90
2	2	46	DT	C5-C4-O4	-5.00	121.40	124.90

There are no chirality outliers.

All (195) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	100	DA	Sidechain
2	2	67	DA	Sidechain
3	A	1005	PRO	Peptide
3	A	1008	GLY	Peptide
3	A	1010	ALA	Peptide
3	A	1036	GLU	Sidechain
3	A	104	LYS	Peptide
3	A	1041	LYS	Peptide
3	A	109	ILE	Peptide
3	A	1090	GLU	Mainchain
3	A	114	VAL	Peptide
3	A	167	PRO	Peptide
3	A	180	ASN	Peptide
3	A	182	LEU	Peptide
3	A	220	GLN	Peptide
3	A	241	LYS	Peptide
3	A	242	LEU	Peptide
3	A	274	ARG	Peptide
3	A	286	PRO	Peptide
3	A	290	ARG	Sidechain

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Mol	Chain	Res	Type	Group
3	A	352	THR	Peptide
3	A	367	PRO	Peptide
3	A	410	LEU	Peptide
3	A	429	ARG	Sidechain
3	A	433	ILE	Peptide
3	A	436	PRO	Peptide
3	A	437	GLU	Peptide
3	A	501	GLY	Peptide
3	A	51	ASN	Peptide
3	A	511	ARG	Sidechain
3	A	52	SER	Mainchain
3	A	550	ALA	Peptide
3	A	609	ARG	Sidechain
3	A	617	ALA	Peptide
3	A	622	THR	Peptide
3	A	623	ASP	Peptide
3	A	630	GLN	Peptide
3	A	635	ILE	Peptide
3	A	661	GLU	Peptide
3	A	662	ARG	Sidechain
3	A	726	ALA	Peptide
3	A	735	GLU	Peptide
3	A	75	LYS	Peptide
3	A	800	ARG	Peptide
3	A	811	LYS	Peptide
3	A	850	ASP	Sidechain
3	A	881	ASP	Peptide
3	A	94	GLN	Peptide
3	A	979	MET	Peptide
3	A	998	TYR	Mainchain
4	B	1001	ARG	Peptide,Sidechain
4	B	1041	GLY	Peptide
4	B	1047	ILE	Peptide
4	B	1052	ILE	Peptide
4	B	1069	LEU	Peptide
4	B	1078	PRO	Peptide
4	B	1085	ASP	Peptide
4	B	1104	ASP	Peptide
4	B	1113	ALA	Peptide
4	B	1243	ARG	Peptide
4	B	133	ASN	Peptide
4	B	180	ARG	Sidechain

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Mol	Chain	Res	Type	Group
4	B	225	MET	Peptide
4	B	238	ARG	Sidechain
4	B	25	GLY	Peptide
4	B	259	PRO	Peptide
4	B	274	LYS	Peptide
4	B	382	ASN	Peptide
4	B	383	GLY	Mainchain
4	B	414	ASP	Peptide
4	B	418	VAL	Peptide
4	B	419	LYS	Peptide
4	B	422	GLN	Peptide
4	B	425	ALA	Peptide
4	B	441	ALA	Peptide
4	B	459	VAL	Peptide
4	B	463	LYS	Peptide
4	B	482	ILE	Peptide
4	B	485	GLY	Peptide
4	B	489	ASN	Peptide
4	B	506	THR	Peptide
4	B	529	THR	Peptide
4	B	531	GLY	Peptide
4	B	535	ARG	Sidechain
4	B	538	GLU	Peptide
4	B	550	THR	Peptide
4	B	556	SER	Peptide
4	B	559	ARG	Sidechain
4	B	573	ASN	Peptide
4	B	575	ARG	Peptide
4	B	612	GLN	Peptide
4	B	616	LYS	Peptide
4	B	627	GLY	Peptide
4	B	642	ASP	Peptide
4	B	647	LEU	Peptide
4	B	651	GLY	Peptide
4	B	657	GLY	Peptide
4	B	665	PHE	Peptide
4	B	694	VAL	Peptide
4	B	707	LEU	Peptide
4	B	708	LEU	Peptide
4	B	711	GLY	Peptide
4	B	723	ARG	Sidechain
4	B	733	GLY	Peptide

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Mol	Chain	Res	Type	Group
4	B	745	ALA	Peptide
4	B	746	VAL	Peptide
4	B	747	PRO	Peptide
4	B	766	ILE	Peptide
4	B	768	MET	Peptide
4	B	773	ARG	Sidechain
4	B	783	LYS	Peptide
4	B	790	LEU	Peptide
4	B	793	THR	Peptide
4	B	828	GLN	Peptide
4	B	829	ARG	Sidechain
4	B	835	LEU	Peptide
4	B	852	SER	Peptide
4	B	854	GLN	Peptide
4	B	857	LEU	Peptide
4	B	859	VAL	Peptide
4	B	86	THR	Peptide
4	B	864	THR	Peptide
4	B	865	ILE	Peptide
4	B	866	VAL	Peptide
4	B	868	GLY	Peptide
4	B	871	VAL	Peptide
4	B	898	LEU	Peptide
4	B	914	PRO	Peptide
4	B	915	LYS	Peptide
4	B	918	ALA	Peptide
4	B	929	ALA	Peptide
4	B	930	PRO	Peptide
4	B	935	GLU	Peptide
4	B	939	GLN	Peptide
4	B	982	ILE	Peptide
4	B	989	GLN	Peptide
5	C	104	PRO	Peptide
5	C	116	SER	Peptide
5	C	191	LYS	Peptide
5	C	206	PRO	Peptide
5	C	45	LEU	Peptide
5	C	57	ARG	Sidechain
5	C	60	GLY	Peptide
5	C	66	ALA	Peptide
5	C	82	MET	Peptide
5	C	98	ARG	Peptide

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Mol	Chain	Res	Type	Group
5	D	104	PRO	Peptide
5	D	148	TYR	Peptide
5	D	149	ARG	Sidechain
5	D	156	GLU	Peptide
5	D	191	LYS	Peptide
5	D	206	PRO	Peptide
5	D	45	LEU	Peptide
5	D	57	ARG	Sidechain
5	D	60	GLY	Peptide
5	D	66	ALA	Peptide
5	D	82	MET	Peptide
5	D	89	SER	Peptide
5	D	98	ARG	Peptide
6	E	199	ASP	Peptide
6	E	212	GLU	Peptide
6	E	228	LEU	Peptide
6	E	259	MET	Peptide
6	E	296	GLU	Peptide
6	E	339	GLU	Peptide
6	E	420	GLU	Peptide
6	E	467	ASP	Peptide
6	E	499	SER	Mainchain
6	E	511	GLN	Mainchain
6	E	564	VAL	Peptide
6	E	583	SER	Peptide
6	E	584	ARG	Peptide
6	E	585	THR	Peptide
6	E	592	ARG	Peptide
6	E	624	ALA	Peptide
6	E	88	ARG	Sidechain
7	F	29	TYR	Sidechain
8	G	103	LEU	Peptide
8	G	115	ARG	Peptide
8	G	191	LEU	Mainchain
8	G	219	THR	Mainchain
8	G	347	ARG	Peptide
8	G	348	MET	Peptide
9	X	170	ILE	Peptide
9	X	185	SER	Mainchain
9	X	64	ILE	Peptide
9	X	65	THR	Peptide
9	X	98	VAL	Peptide

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Mol	Chain	Res	Type	Group
9	Y	216	VAL	Peptide
9	Y	217	THR	Peptide
9	Y	49	LYS	Peptide
9	Y	51	ALA	Peptide
9	Y	74	VAL	Peptide
9	Y	98	VAL	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	1358	0	694	737	0
2	2	1109	0	574	622	0
3	A	8473	0	8480	2770	0
4	B	9292	0	9457	3586	0
5	C	1762	0	1772	621	0
5	D	1762	0	1772	616	0
6	E	4923	0	4987	1470	0
7	F	474	0	477	96	0
8	G	2600	0	2685	873	0
9	X	1540	0	1613	549	0
9	Y	1540	0	1616	480	0
All	All	34833	0	34127	11682	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 170.

All (11682) 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)
4:B:125:MET:HG2	6:E:515:LEU:CD2	1.24	1.65
9:X:42:GLU:CB	9:X:78:LEU:HB3	1.25	1.64
9:Y:78:LEU:CD2	9:Y:88:ARG:HG2	1.15	1.62
3:A:74:LEU:HD21	3:A:95:MET:CG	1.14	1.60
6:E:28:ARG:NH2	6:E:102:ARG:CD	1.67	1.57
3:A:67:PHE:CD1	3:A:99:THR:HB	1.34	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:792:PHE:CZ	8:G:385:LEU:HD11	1.38	1.56
4:B:766:ILE:HG23	4:B:799:ILE:CD1	1.33	1.56
5:C:9:VAL:CG1	5:C:22:LYS:HB2	1.32	1.55
4:B:597:ARG:CD	4:B:788:VAL:HG13	1.38	1.54
9:Y:78:LEU:CD1	9:Y:88:ARG:HD2	1.14	1.54
4:B:453:VAL:CG2	4:B:988:VAL:HG22	1.38	1.52
9:Y:78:LEU:CD2	9:Y:88:ARG:CG	1.85	1.51
3:A:74:LEU:CD2	3:A:95:MET:CB	1.83	1.51
6:E:216:ALA:HB1	6:E:219:GLN:CG	1.36	1.51
9:X:42:GLU:HB2	9:X:78:LEU:CB	1.04	1.51
8:G:378:HIS:CD2	9:X:57:VAL:CG2	1.92	1.51
3:A:74:LEU:HD23	3:A:95:MET:CA	1.39	1.50
4:B:311:LEU:HD12	7:F:27:ASN:ND2	1.25	1.50
6:E:216:ALA:CB	6:E:219:GLN:HG3	1.41	1.50
9:X:179:ILE:CG2	9:X:189:THR:HG22	1.36	1.50
4:B:93:LYS:CE	4:B:375:ASP:HB2	1.37	1.49
3:A:1028:PHE:CE1	6:E:438:ARG:HB2	1.43	1.49
1:1:89:DA:N6	2:2:37:DT:C4	1.79	1.48
1:1:89:DA:C6	2:2:37:DT:N3	1.80	1.47
9:Y:78:LEU:HD22	9:Y:88:ARG:CG	1.40	1.46
9:X:179:ILE:CG2	9:X:189:THR:CG2	1.92	1.46
4:B:618:LYS:O	4:B:621:TYR:CE1	1.66	1.45
6:E:220:LYS:HD2	6:E:223:LYS:CD	1.42	1.45
3:A:887:LEU:CD1	4:B:131:ARG:NH2	1.80	1.45
3:A:1028:PHE:CD1	6:E:438:ARG:HB2	1.49	1.44
8:G:242:ILE:HG23	8:G:266:MET:CE	1.43	1.44
3:A:887:LEU:HD13	4:B:131:ARG:NH2	1.27	1.44
5:C:58:ILE:HD13	5:C:138:MET:SD	1.58	1.44
8:G:378:HIS:NE2	9:X:57:VAL:HG23	1.27	1.43
3:A:74:LEU:CD2	3:A:95:MET:CA	1.93	1.43
8:G:378:HIS:CE1	9:X:57:VAL:HG23	1.53	1.43
5:D:58:ILE:HD13	5:D:138:MET:SD	1.58	1.43
8:G:163:LEU:HD12	8:G:164:ARG:N	1.22	1.42
1:1:86:DG:N1	2:2:40:DC:N3	1.68	1.42
9:X:179:ILE:CB	9:X:189:THR:HG21	1.50	1.42
1:1:88:DA:N1	2:2:38:DT:N3	1.71	1.39
8:G:378:HIS:CG	9:X:57:VAL:CG2	2.05	1.39
1:1:72:DT:C7	9:X:187:ARG:NH2	1.84	1.39
3:A:215:HIS:CD2	3:A:219:PHE:HE1	1.40	1.39
3:A:1028:PHE:CE1	6:E:438:ARG:CB	2.07	1.38
4:B:597:ARG:CG	4:B:788:VAL:HG13	1.53	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:106:DG:H4'	8:G:171:LYS:CD	1.52	1.38
8:G:378:HIS:CD2	9:X:57:VAL:HG21	1.54	1.38
4:B:687:LYS:CD	4:B:739:ARG:HD3	1.53	1.37
3:A:74:LEU:CD2	3:A:95:MET:HA	1.54	1.37
5:D:118:VAL:CG1	5:D:142:ILE:HG21	1.54	1.37
4:B:453:VAL:HG21	4:B:988:VAL:CG1	1.55	1.36
4:B:93:LYS:HE2	4:B:375:ASP:CB	1.53	1.36
3:A:470:ARG:CD	3:A:502:TYR:HE1	1.36	1.36
3:A:184:TRP:CG	3:A:193:LEU:HD12	1.60	1.35
6:E:122:PRO:HB2	6:E:127:ILE:CD1	1.57	1.35
3:A:735:GLU:C	3:A:772:LYS:HG3	1.45	1.35
4:B:766:ILE:CG1	4:B:799:ILE:HD12	1.57	1.35
3:A:968:PHE:CD1	4:B:47:ALA:O	1.77	1.34
8:G:318:LEU:CG	8:G:388:TYR:HE2	1.25	1.34
8:G:163:LEU:CD1	8:G:164:ARG:H	1.41	1.34
4:B:1231:TRP:CD1	6:E:11:TYR:HB3	1.61	1.34
3:A:188:ASP:OD1	3:A:191:ARG:HB2	1.27	1.33
6:E:220:LYS:CD	6:E:223:LYS:HD2	1.54	1.33
9:X:40:PRO:N	9:X:40:PRO:CA	1.70	1.33
4:B:922:ILE:O	4:B:937:SER:HA	1.16	1.33
9:X:47:LEU:CD2	9:X:69:LEU:HB3	1.58	1.33
1:1:86:DG:O6	2:2:40:DC:N4	1.62	1.32
3:A:792:PHE:CZ	8:G:385:LEU:CD1	2.12	1.32
3:A:184:TRP:CB	3:A:193:LEU:HD12	1.60	1.32
3:A:748:LEU:H	3:A:751:LEU:CD1	1.43	1.31
8:G:258:THR:OG1	8:G:262:ILE:HD11	1.15	1.31
4:B:385:MET:SD	4:B:406:GLN:HB3	1.70	1.30
8:G:378:HIS:CG	9:X:57:VAL:HG21	1.63	1.30
9:Y:78:LEU:CD1	9:Y:88:ARG:CD	2.10	1.30
3:A:215:HIS:CD2	3:A:219:PHE:CE1	2.17	1.30
4:B:1037:LYS:HD2	4:B:1052:ILE:CG2	1.59	1.30
4:B:1159:ASP:HB2	4:B:1180:MET:SD	1.71	1.30
3:A:748:LEU:N	3:A:751:LEU:HD12	1.44	1.30
1:1:87:DA:N6	2:2:39:DT:O4	1.60	1.29
3:A:74:LEU:CD2	3:A:95:MET:HG3	1.63	1.28
9:Y:53:LYS:HG2	9:Y:68:LEU:CD2	1.62	1.28
3:A:74:LEU:HD21	3:A:95:MET:CB	1.48	1.28
4:B:304:ALA:HB2	6:E:438:ARG:NH2	1.43	1.28
4:B:356:THR:HG21	4:B:411:TYR:CD2	1.67	1.28
1:1:71:DT:O5'	9:X:145:MET:HE3	1.31	1.27
9:X:75:PHE:CE2	9:X:100:LEU:HD22	1.68	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:72:TYR:HD1	3:A:74:LEU:CG	1.47	1.27
4:B:378:PHE:CE1	4:B:413:VAL:HG12	1.70	1.27
4:B:473:THR:HG22	4:B:977:GLY:C	1.52	1.27
6:E:28:ARG:NH2	6:E:102:ARG:HD2	1.33	1.27
6:E:122:PRO:CB	6:E:127:ILE:HD11	1.65	1.27
4:B:93:LYS:HZ3	4:B:376:ALA:N	1.29	1.27
9:Y:135:MET:O	9:Y:136:MET:HG2	1.23	1.27
1:1:87:DA:N1	2:2:39:DT:N3	1.80	1.26
8:G:318:LEU:CG	8:G:388:TYR:CE2	2.09	1.26
1:1:86:DG:N2	2:2:40:DC:O2	1.63	1.26
4:B:514:LYS:NZ	4:B:873:ARG:CZ	1.97	1.26
9:X:30:ARG:CG	9:X:97:PRO:HD3	1.63	1.26
4:B:125:MET:CG	6:E:515:LEU:CD2	2.10	1.26
4:B:356:THR:HG21	4:B:411:TYR:CE2	1.70	1.26
4:B:453:VAL:CG2	4:B:988:VAL:CG2	2.12	1.26
9:X:42:GLU:O	9:X:78:LEU:HB2	1.15	1.26
5:D:17:ARG:HG2	5:D:201:ASN:O	1.28	1.25
3:A:887:LEU:HD13	4:B:131:ARG:CZ	1.65	1.25
4:B:1159:ASP:HB2	4:B:1180:MET:CE	1.64	1.25
4:B:283:ARG:CG	4:B:298:CYS:HB2	1.64	1.25
1:1:58:DA:C2	2:2:68:DT:N3	2.04	1.25
3:A:74:LEU:CD2	3:A:95:MET:CG	2.02	1.25
3:A:542:ILE:HG23	3:A:856:HIS:CE1	1.70	1.25
4:B:352:LYS:HE2	4:B:358:LYS:CE	1.66	1.25
8:G:258:THR:OG1	8:G:262:ILE:CD1	1.82	1.25
4:B:766:ILE:HG12	4:B:799:ILE:CD1	1.67	1.24
1:1:78:DA:N6	2:2:48:DT:O4	1.69	1.24
4:B:378:PHE:CE1	4:B:413:VAL:CG1	2.20	1.24
5:C:159:THR:CG2	5:C:163:PHE:CD2	2.19	1.24
9:Y:78:LEU:HD11	9:Y:88:ARG:CD	1.65	1.24
1:1:76:DC:N4	2:2:50:DG:O6	1.72	1.23
4:B:514:LYS:HZ2	4:B:873:ARG:CZ	1.49	1.23
7:F:17:ARG:NH1	7:F:67:ASP:OD2	1.69	1.23
1:1:80:DA:N6	2:2:46:DT:O4	1.69	1.23
3:A:1077:LEU:HB3	3:A:1082:LEU:CD1	1.65	1.23
9:X:154:LEU:O	9:X:157:CYS:SG	1.97	1.23
1:1:106:DG:C4'	8:G:171:LYS:HD2	1.67	1.23
3:A:535:VAL:CG2	3:A:540:SER:HB3	1.67	1.23
4:B:499:LYS:HB3	4:B:889:LYS:NZ	1.53	1.23
4:B:536:GLU:HA	4:B:838:LEU:O	1.35	1.23
4:B:714:LEU:CD1	4:B:736:LEU:HD22	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:81:DT:O4	2:2:45:DA:N6	1.72	1.22
3:A:1077:LEU:C	3:A:1082:LEU:HD12	1.59	1.22
4:B:618:LYS:O	4:B:621:TYR:CZ	1.91	1.22
5:C:151:VAL:CG1	5:C:156:GLU:HG2	1.69	1.22
4:B:1107:TYR:OH	4:B:1174:GLU:HG2	1.36	1.22
9:X:144:ASP:O	9:X:148:ARG:NE	1.73	1.22
9:Y:36:PHE:CE1	9:Y:91:HIS:CE1	2.28	1.22
3:A:70:HIS:CE1	3:A:71:ASN:ND2	2.08	1.22
4:B:384:ILE:CG2	4:B:393:GLY:C	2.07	1.22
4:B:597:ARG:HG3	4:B:788:VAL:CG1	1.68	1.22
4:B:766:ILE:CG2	4:B:799:ILE:CD1	2.16	1.22
4:B:1107:TYR:OH	4:B:1174:GLU:CG	1.86	1.22
4:B:586:GLN:NE2	4:B:797:LEU:O	1.73	1.21
8:G:171:LYS:O	8:G:174:MET:HG2	1.39	1.21
4:B:514:LYS:HZ2	4:B:873:ARG:NH2	1.38	1.21
1:1:72:DT:H71	9:X:187:ARG:NH2	0.90	1.21
5:C:159:THR:HG22	5:C:163:PHE:CG	1.75	1.21
6:E:188:ILE:HD11	6:E:300:ARG:NE	1.55	1.21
9:Y:197:LEU:CD1	9:Y:198:ARG:HG3	1.69	1.21
4:B:384:ILE:HG22	4:B:393:GLY:C	1.59	1.21
8:G:292:LYS:O	8:G:293:GLU:HG2	1.40	1.21
4:B:93:LYS:HD3	4:B:372:HIS:NE2	1.53	1.21
4:B:463:LYS:NZ	4:B:467:GLN:OE1	1.70	1.21
5:C:9:VAL:CG1	5:C:22:LYS:CB	2.18	1.21
3:A:542:ILE:CG2	3:A:856:HIS:HE1	1.54	1.20
5:C:159:THR:HG23	5:C:163:PHE:CD2	1.74	1.20
9:X:42:GLU:HA	9:X:78:LEU:CD1	1.69	1.20
8:G:378:HIS:CD2	9:X:57:VAL:HG23	1.61	1.20
9:X:179:ILE:HG21	9:X:189:THR:CG2	1.61	1.20
8:G:336:VAL:CG2	8:G:354:ILE:HD11	1.70	1.20
9:X:176:HIS:O	9:X:189:THR:OG1	1.55	1.20
4:B:538:GLU:HA	4:B:836:GLU:O	1.36	1.19
3:A:470:ARG:CD	3:A:502:TYR:CE1	2.24	1.19
8:G:171:LYS:HG3	8:G:174:MET:SD	1.82	1.19
3:A:72:TYR:CD1	3:A:74:LEU:HG	1.75	1.19
3:A:887:LEU:HD12	3:A:887:LEU:O	1.40	1.19
4:B:378:PHE:HE1	4:B:413:VAL:CG1	1.51	1.19
4:B:463:LYS:CG	4:B:472:THR:HG22	1.72	1.18
4:B:463:LYS:HG2	4:B:472:THR:CG2	1.72	1.18
5:C:151:VAL:HG13	5:C:156:GLU:CG	1.72	1.18
2:2:60:DC:H2'	2:2:61:DT:C6	1.78	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:463:LYS:NZ	4:B:467:GLN:H	1.39	1.18
8:G:329:LEU:HD12	8:G:329:LEU:O	1.42	1.18
3:A:184:TRP:CG	3:A:193:LEU:CD1	2.27	1.18
4:B:304:ALA:CB	6:E:438:ARG:NH2	2.07	1.18
4:B:552:THR:OG1	4:B:563:LEU:HD12	1.44	1.18
4:B:384:ILE:HG22	4:B:393:GLY:O	1.02	1.18
3:A:74:LEU:CD2	3:A:95:MET:HB2	1.68	1.18
4:B:303:LEU:HD13	6:E:502:THR:HA	1.18	1.17
3:A:609:ARG:HD3	3:A:636:ARG:CA	1.74	1.17
5:D:118:VAL:HG11	5:D:142:ILE:CG2	1.71	1.17
4:B:739:ARG:HH11	4:B:781:ARG:NH2	1.40	1.17
6:E:220:LYS:HD2	6:E:223:LYS:CE	1.73	1.17
3:A:552:ARG:CZ	3:A:892:ARG:HG2	1.75	1.17
4:B:250:HIS:HB2	4:B:254:LYS:HZ3	1.00	1.17
4:B:452:GLU:HA	4:B:987:LEU:HG	1.25	1.17
8:G:340:ARG:HH21	8:G:369:GLU:HG2	1.06	1.17
4:B:304:ALA:CB	6:E:438:ARG:HH22	1.56	1.16
8:G:378:HIS:HE1	9:X:63:GLU:OE2	1.27	1.16
5:D:19:HIS:HB3	5:D:206:PRO:HD3	1.24	1.16
1:1:72:DT:C7	9:X:187:ARG:HH22	1.48	1.16
1:1:85:DG:N1	2:2:41:DC:N3	1.92	1.16
9:Y:81:LEU:HD23	9:Y:82:THR:HG23	1.17	1.16
3:A:887:LEU:HD12	4:B:131:ARG:HH22	1.05	1.16
6:E:53:GLU:O	6:E:54:MET:HG3	1.44	1.16
3:A:224:GLU:HB2	3:A:226:GLU:OE2	1.46	1.16
1:1:94:DT:OP1	6:E:48:ARG:HD2	1.40	1.15
4:B:359:LEU:HG	4:B:387:LEU:N	1.59	1.15
4:B:842:ARG:CD	4:B:845:ALA:HB2	1.75	1.15
8:G:330:SER:HB2	8:G:333:GLU:OE1	1.43	1.15
3:A:607:ARG:HA	3:A:609:ARG:HG2	1.18	1.15
3:A:792:PHE:CE2	8:G:385:LEU:CD1	2.29	1.15
4:B:1160:THR:N	4:B:1180:MET:HE1	1.60	1.15
8:G:242:ILE:CG2	8:G:266:MET:HE3	1.75	1.15
4:B:1177:ASN:ND2	4:B:1190:TYR:HE2	1.44	1.15
9:Y:55:SER:HA	9:Y:65:THR:HA	1.28	1.15
3:A:609:ARG:CD	3:A:636:ARG:HA	1.75	1.15
4:B:356:THR:CG2	4:B:411:TYR:CD2	2.27	1.15
5:C:13:THR:HG21	5:C:206:PRO:HD2	1.26	1.15
5:C:63:HIS:HA	5:C:164:LEU:HD21	1.17	1.15
4:B:347:GLN:NE2	4:B:356:THR:HG22	1.62	1.15
3:A:148:TYR:HE1	3:A:322:ASN:ND2	1.45	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:609:ARG:NH1	3:A:635:ILE:O	1.79	1.14
4:B:384:ILE:CG2	4:B:393:GLY:O	1.94	1.14
9:Y:35:PHE:CE2	9:Y:92:ALA:HB2	1.81	1.14
1:1:72:DT:H71	9:X:187:ARG:CZ	1.76	1.14
3:A:470:ARG:HD3	3:A:502:TYR:CE1	1.82	1.14
3:A:67:PHE:CD1	3:A:99:THR:CB	2.30	1.14
3:A:792:PHE:CE2	8:G:385:LEU:HD11	1.82	1.14
9:Y:203:ILE:HA	9:Y:211:THR:O	1.45	1.14
3:A:1017:PHE:CE2	3:A:1025:LEU:CD1	2.30	1.14
4:B:215:GLY:O	4:B:216:THR:HG22	1.48	1.14
4:B:514:LYS:NZ	4:B:873:ARG:NH2	1.95	1.14
6:E:28:ARG:CZ	6:E:102:ARG:HD2	1.76	1.14
9:X:47:LEU:HD23	9:X:69:LEU:HB3	1.23	1.14
9:Y:36:PHE:CD1	9:Y:91:HIS:CE1	2.34	1.14
4:B:521:GLY:HA2	4:B:760:GLN:HB3	1.30	1.14
5:C:13:THR:CG2	5:C:206:PRO:HD2	1.77	1.14
3:A:231:GLU:OE2	3:A:232:GLU:HG3	1.45	1.13
4:B:358:LYS:HD3	4:B:412:ILE:HD11	1.26	1.13
5:D:171:MET:SD	5:D:173:VAL:N	2.21	1.13
6:E:216:ALA:HB1	6:E:219:GLN:CB	1.77	1.13
3:A:535:VAL:HG23	3:A:540:SER:HB3	1.17	1.13
4:B:453:VAL:HG21	4:B:988:VAL:HG13	1.21	1.13
8:G:242:ILE:CG2	8:G:266:MET:CE	2.25	1.13
1:1:86:DG:N2	2:2:40:DC:C2	2.16	1.13
4:B:143:MET:HG3	4:B:160:LYS:O	1.47	1.13
4:B:688:PRO:HD2	4:B:739:ARG:CD	1.76	1.13
5:C:171:MET:SD	5:C:173:VAL:N	2.21	1.13
5:D:107:ILE:HD13	5:D:136:LEU:HD21	1.15	1.13
3:A:100:ARG:HG2	3:A:101:LEU:H	1.14	1.12
4:B:766:ILE:HG23	4:B:799:ILE:HD13	1.28	1.12
9:X:42:GLU:CB	9:X:78:LEU:CB	1.94	1.12
3:A:66:HIS:NE2	3:A:100:ARG:HD2	1.63	1.12
4:B:542:ALA:HA	4:B:759:SER:HA	1.13	1.12
9:X:47:LEU:HD23	9:X:69:LEU:CB	1.78	1.12
3:A:470:ARG:HD3	3:A:502:TYR:HE1	0.99	1.12
4:B:207:VAL:HG13	4:B:293:SER:HA	1.15	1.12
4:B:283:ARG:HD2	4:B:298:CYS:HA	1.23	1.12
4:B:499:LYS:CB	4:B:889:LYS:HZ3	1.61	1.12
4:B:766:ILE:HG23	4:B:799:ILE:HD11	1.19	1.12
4:B:360:PRO:HB3	4:B:390:ARG:HD3	1.24	1.12
4:B:1177:ASN:ND2	4:B:1190:TYR:CE2	2.16	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:71:CYS:SG	6:E:89:CYS:HB3	1.89	1.12
4:B:266:ASP:O	4:B:269:ALA:N	1.83	1.12
3:A:887:LEU:CD1	4:B:131:ARG:CZ	2.25	1.11
4:B:93:LYS:HD3	4:B:372:HIS:CD2	1.83	1.11
4:B:653:TYR:HD1	4:B:671:VAL:HA	1.11	1.11
4:B:757:SER:HB3	4:B:768:MET:HG3	1.30	1.11
5:D:184:ARG:HD3	5:D:185:ALA:H	1.07	1.11
1:1:87:DA:N6	2:2:38:DT:O4	1.84	1.11
4:B:773:ARG:HD3	4:B:792:ARG:HB3	1.31	1.11
6:E:382:GLU:OE1	6:E:382:GLU:N	1.82	1.11
3:A:185:VAL:HG23	3:A:197:VAL:HA	1.26	1.11
3:A:936:LEU:O	3:A:939:ALA:N	1.83	1.11
4:B:940:ILE:HA	4:B:966:ILE:HA	1.31	1.11
8:G:246:THR:HB	8:G:256:LYS:HD2	1.33	1.11
3:A:1017:PHE:CE2	3:A:1025:LEU:HD11	1.86	1.11
4:B:707:LEU:HB2	4:B:724:TYR:HA	1.32	1.11
6:E:402:LYS:HD3	8:G:390:ARG:HH21	1.02	1.11
4:B:93:LYS:CD	4:B:375:ASP:HB2	1.81	1.11
4:B:283:ARG:HG2	4:B:298:CYS:CB	1.80	1.11
5:C:130:ILE:HD12	5:C:136:LEU:HG	1.20	1.11
6:E:67:LYS:HB3	6:E:70:GLU:OE1	1.50	1.11
6:E:154:GLU:HG3	6:E:155:THR:H	1.14	1.11
6:E:216:ALA:CB	6:E:219:GLN:CG	2.10	1.11
9:Y:36:PHE:CD1	9:Y:91:HIS:ND1	2.18	1.11
4:B:907:THR:HG22	4:B:965:THR:HA	1.31	1.10
6:E:594:ARG:NH1	6:E:603:SER:HB2	1.66	1.10
9:X:142:HIS:HB3	9:X:148:ARG:CG	1.80	1.10
9:X:179:ILE:HB	9:X:189:THR:CG2	1.81	1.10
3:A:1076:GLU:O	3:A:1079:SER:N	1.84	1.10
4:B:358:LYS:HG2	4:B:410:ILE:CD1	1.79	1.10
4:B:597:ARG:HG3	4:B:788:VAL:HG13	1.24	1.10
5:C:215:GLY:HA2	5:D:225:LYS:HE2	1.32	1.10
6:E:424:GLU:OE1	6:E:424:GLU:N	1.84	1.10
4:B:739:ARG:NH1	4:B:781:ARG:CZ	2.14	1.10
5:D:181:GLU:OE2	5:D:193:ARG:HB2	1.49	1.10
9:X:47:LEU:HD13	9:X:100:LEU:HD21	1.32	1.10
3:A:551:ASN:OD1	3:A:552:ARG:N	1.82	1.10
3:A:873:TYR:HA	3:A:879:PRO:HA	1.31	1.10
6:E:100:ARG:HG2	6:E:255:ASP:CG	1.70	1.10
3:A:589:VAL:HA	3:A:653:GLN:NE2	1.66	1.10
4:B:93:LYS:NZ	4:B:376:ALA:H	1.49	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:47:TYR:CB	8:G:231:LEU:HD23	1.82	1.10
6:E:217:LYS:O	6:E:221:ARG:NE	1.85	1.10
8:G:318:LEU:HA	8:G:388:TYR:CE2	1.62	1.10
9:X:47:LEU:CA	9:X:100:LEU:HD23	1.81	1.10
9:X:142:HIS:HB3	9:X:148:ARG:HG2	1.12	1.10
1:1:88:DA:N1	2:2:38:DT:C4	2.10	1.09
3:A:736:ILE:HD11	3:A:772:LYS:HD3	1.24	1.09
3:A:828:LEU:HD13	3:A:832:ALA:HB3	1.18	1.09
5:C:148:TYR:HA	5:C:169:ILE:HA	1.34	1.09
5:C:211:SER:HA	5:D:225:LYS:HA	1.16	1.09
5:D:58:ILE:CD1	5:D:138:MET:SD	2.40	1.09
3:A:467:GLU:O	3:A:470:ARG:HG2	1.52	1.09
4:B:597:ARG:HD2	4:B:788:VAL:HG13	1.32	1.09
8:G:122:GLU:O	8:G:126:ARG:NH2	1.85	1.09
8:G:266:MET:CG	8:G:273:LEU:HD21	1.82	1.09
9:Y:81:LEU:CD2	9:Y:82:THR:HG23	1.81	1.09
1:1:74:DT:N3	2:2:52:DA:N1	1.97	1.09
1:1:94:DT:P	6:E:47:TYR:OH	2.11	1.09
3:A:74:LEU:HD22	3:A:95:MET:HB2	1.25	1.09
3:A:734:GLU:HG2	3:A:772:LYS:HZ3	1.02	1.09
3:A:1091:THR:HG22	3:A:1093:ALA:H	0.99	1.09
9:Y:53:LYS:HG2	9:Y:68:LEU:HD23	1.12	1.09
3:A:395:GLU:O	3:A:398:HIS:N	1.86	1.09
3:A:913:ARG:O	3:A:914:PHE:CD1	2.05	1.09
4:B:496:LEU:HA	4:B:511:ALA:HA	1.32	1.09
4:B:1231:TRP:CG	6:E:11:TYR:HB3	1.85	1.09
5:C:58:ILE:CD1	5:C:138:MET:SD	2.40	1.09
1:1:89:DA:N1	2:2:37:DT:N3	2.01	1.09
4:B:388:GLU:HB3	4:B:399:PRO:HG2	1.25	1.09
4:B:463:LYS:HE2	4:B:465:ASP:OD1	1.53	1.09
4:B:572:PHE:HB3	4:B:589:ALA:HB1	1.28	1.09
6:E:28:ARG:NH2	6:E:102:ARG:HD3	1.44	1.09
8:G:246:THR:HB	8:G:256:LYS:CD	1.81	1.09
3:A:72:TYR:CD1	3:A:74:LEU:CD1	2.35	1.08
3:A:597:ASP:OD1	3:A:662:ARG:HA	1.53	1.08
4:B:171:GLU:OE1	4:B:171:GLU:N	1.85	1.08
4:B:688:PRO:O	4:B:739:ARG:HG2	1.53	1.08
4:B:1144:ILE:O	4:B:1147:GLN:N	1.86	1.08
5:C:99:LEU:N	5:C:138:MET:O	1.86	1.08
6:E:252:ILE:O	6:E:257:ARG:NH1	1.86	1.08
8:G:336:VAL:CG2	8:G:354:ILE:CD1	2.31	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:76:DC:N3	2:2:50:DG:N1	1.98	1.08
1:1:79:DA:N1	2:2:47:DT:N3	1.85	1.08
3:A:470:ARG:HD2	3:A:502:TYR:CE1	1.88	1.08
3:A:599:VAL:HG22	3:A:615:PRO:HG3	1.32	1.08
4:B:93:LYS:NZ	4:B:376:ALA:N	1.99	1.08
5:C:151:VAL:HG23	5:C:167:ASP:HB3	1.27	1.08
8:G:146:TYR:CE1	8:G:150:ILE:CD1	2.36	1.08
8:G:163:LEU:CD1	8:G:164:ARG:HG3	1.83	1.08
9:Y:197:LEU:HD11	9:Y:198:ARG:HG3	1.24	1.08
3:A:595:ASP:OD2	3:A:618:SER:OG	1.67	1.08
3:A:598:VAL:HG23	3:A:608:VAL:HG11	1.34	1.08
3:A:1015:GLN:HE22	6:E:359:ARG:HD2	1.11	1.08
4:B:1222:GLU:O	4:B:1225:ILE:N	1.87	1.08
2:2:52:DA:H2"	2:2:53:DT:H5'	1.31	1.08
4:B:661:VAL:N	4:B:664:ILE:O	1.87	1.08
5:C:97:GLY:CA	5:C:114:LEU:HA	1.84	1.08
5:D:99:LEU:N	5:D:138:MET:O	1.86	1.08
6:E:512:ASP:OD1	6:E:513:MET:N	1.84	1.08
8:G:356:GLN:HA	8:G:360:VAL:HA	1.26	1.08
4:B:358:LYS:HG2	4:B:410:ILE:HD12	1.30	1.08
8:G:318:LEU:CD1	8:G:390:ARG:O	2.01	1.08
8:G:318:LEU:HG	8:G:388:TYR:CE2	1.80	1.08
4:B:1037:LYS:HD2	4:B:1052:ILE:HG23	1.30	1.07
8:G:242:ILE:HG12	8:G:266:MET:SD	1.93	1.07
8:G:318:LEU:CD1	8:G:388:TYR:CE2	2.37	1.07
4:B:68:ALA:HB1	4:B:419:LYS:HE2	1.31	1.07
4:B:84:GLU:O	4:B:973:ARG:NH1	1.86	1.07
4:B:352:LYS:HD3	4:B:358:LYS:NZ	1.69	1.07
4:B:816:ILE:HG13	4:B:833:VAL:HG23	1.17	1.07
4:B:1215:GLU:OE2	4:B:1218:ARG:HD3	1.54	1.07
6:E:321:ARG:HA	6:E:321:ARG:NE	1.69	1.07
9:X:143:ARG:H	9:X:148:ARG:HD3	1.16	1.07
3:A:789:ARG:HH12	3:A:795:LYS:HA	1.14	1.07
4:B:818:LEU:HG	4:B:819:ILE:H	1.12	1.07
4:B:1252:ASN:ND2	7:F:33:VAL:HG21	1.68	1.07
8:G:351:LEU:HA	8:G:354:ILE:CG2	1.83	1.07
9:Y:78:LEU:HD13	9:Y:88:ARG:HD2	1.12	1.07
3:A:609:ARG:NH1	3:A:637:TYR:H	1.52	1.07
4:B:72:GLU:HB2	4:B:419:LYS:HB2	1.36	1.07
4:B:172:TYR:O	4:B:175:SER:OG	1.72	1.07
4:B:1088:SER:OG	4:B:1093:ILE:CG2	2.02	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:265:GLY:CA	8:G:278:LYS:HE3	1.84	1.07
8:G:318:LEU:HD12	8:G:388:TYR:CE2	1.89	1.07
9:Y:78:LEU:HD22	9:Y:88:ARG:HG3	1.13	1.07
1:1:89:DA:C6	2:2:37:DT:C4	2.32	1.07
4:B:378:PHE:HE1	4:B:413:VAL:HG12	0.90	1.07
4:B:687:LYS:HD2	4:B:739:ARG:CD	1.83	1.07
9:Y:44:VAL:HA	9:Y:76:GLY:HA3	1.21	1.07
3:A:199:LEU:CD2	3:A:229:PHE:CE2	2.37	1.06
4:B:169:VAL:O	4:B:172:TYR:N	1.88	1.06
4:B:538:GLU:HG3	4:B:540:ILE:HG12	1.12	1.06
4:B:597:ARG:CD	4:B:788:VAL:CG1	2.32	1.06
4:B:675:THR:O	4:B:677:LYS:NZ	1.86	1.06
4:B:1091:HIS:CE1	4:B:1092:GLU:HG3	1.89	1.06
5:D:118:VAL:HG21	5:D:142:ILE:HG13	1.36	1.06
1:1:58:DA:N1	2:2:68:DT:N3	2.02	1.06
3:A:39:ARG:HB3	3:A:43:GLU:OE2	1.56	1.06
6:E:144:SER:HA	6:E:163:SER:HA	1.36	1.06
8:G:232:PRO:CB	8:G:234:HIS:CE1	2.39	1.06
9:Y:197:LEU:HD12	9:Y:198:ARG:N	1.70	1.06
3:A:970:ARG:HH22	4:B:120:ASN:HA	1.20	1.06
4:B:657:GLY:O	4:B:668:ASN:ND2	1.88	1.06
8:G:110:LEU:HD12	8:G:148:LEU:O	1.55	1.06
3:A:551:ASN:O	3:A:554:LEU:N	1.88	1.06
3:A:734:GLU:HG2	3:A:772:LYS:NZ	1.69	1.06
4:B:125:MET:HG2	6:E:515:LEU:HD21	1.34	1.06
4:B:321:GLN:HA	6:E:436:LEU:HD21	1.37	1.06
4:B:631:TRP:CD1	4:B:633:PRO:HG3	1.89	1.06
5:C:159:THR:HG22	5:C:163:PHE:CB	1.86	1.06
6:E:430:LEU:O	6:E:441:ILE:HG13	1.56	1.06
8:G:318:LEU:HG	8:G:388:TYR:HE2	0.90	1.06
3:A:67:PHE:CG	3:A:99:THR:HB	1.90	1.06
6:E:530:GLY:HA3	6:E:550:ILE:HA	1.37	1.06
1:1:86:DG:N1	2:2:40:DC:C4	2.24	1.05
3:A:968:PHE:HZ	3:A:972:VAL:HG23	1.19	1.05
3:A:1054:ALA:HB1	3:A:1059:LYS:NZ	1.69	1.05
4:B:271:GLU:HG3	4:B:272:ILE:N	1.68	1.05
6:E:483:SER:HA	6:E:486:GLU:OE2	1.56	1.05
8:G:232:PRO:HB2	8:G:234:HIS:CE1	1.91	1.05
9:Y:203:ILE:HG22	9:Y:212:VAL:HA	1.38	1.05
1:1:84:DA:N1	2:2:42:DT:C4	2.24	1.05
5:D:79:ILE:HA	5:D:82:MET:CG	1.86	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:94:DT:O5'	6:E:47:TYR:OH	1.75	1.05
4:B:93:LYS:NZ	4:B:415:GLY:HA2	1.71	1.05
4:B:721:GLU:OE2	4:B:723:ARG:HA	1.56	1.05
4:B:1162:MET:SD	4:B:1166:GLU:OE2	2.14	1.05
5:C:151:VAL:HG12	5:C:156:GLU:HG2	1.31	1.05
5:D:107:ILE:CD1	5:D:136:LEU:HD21	1.86	1.05
8:G:340:ARG:NH2	8:G:369:GLU:HG2	1.70	1.05
9:X:52:VAL:HG11	9:X:100:LEU:CD1	1.85	1.05
4:B:1032:ARG:HG3	4:B:1078:PRO:HD3	1.38	1.05
5:D:118:VAL:HG11	5:D:142:ILE:HG21	1.11	1.05
9:X:52:VAL:CG1	9:X:100:LEU:HD11	1.86	1.05
1:1:101:DT:H3'	8:G:208:THR:HG21	1.31	1.05
3:A:72:TYR:CD1	3:A:74:LEU:CG	2.38	1.05
3:A:609:ARG:HG3	3:A:610:VAL:H	0.96	1.05
3:A:673:SER:OG	3:A:674:SER:N	1.76	1.05
3:A:1085:ALA:O	3:A:1087:HIS:ND1	1.89	1.05
4:B:283:ARG:HD2	4:B:298:CYS:CA	1.86	1.05
4:B:490:LEU:N	4:B:895:ARG:HG3	1.70	1.05
4:B:1159:ASP:CB	4:B:1180:MET:SD	2.45	1.05
5:C:79:ILE:HA	5:C:82:MET:CG	1.86	1.05
5:C:151:VAL:CG1	5:C:156:GLU:CG	2.32	1.05
8:G:249:LEU:HD21	8:G:265:ARG:HD2	1.34	1.05
3:A:199:LEU:HD22	3:A:229:PHE:HE2	1.22	1.04
3:A:684:GLN:HE22	3:A:713:ILE:HG23	1.19	1.04
4:B:809:ALA:HB1	4:B:812:LEU:HB2	1.39	1.04
1:1:85:DG:H1'	1:1:86:DG:H5'	1.40	1.04
3:A:215:HIS:NE2	3:A:219:PHE:HE1	1.53	1.04
5:C:9:VAL:HG12	5:C:22:LYS:CB	1.79	1.04
6:E:129:LEU:HD21	6:E:193:LEU:HD11	1.35	1.04
8:G:378:HIS:CE1	9:X:57:VAL:CG2	2.39	1.04
9:X:33:THR:HA	9:X:93:VAL:HA	1.34	1.04
9:X:176:HIS:HB3	9:X:190:VAL:HG23	1.35	1.04
2:2:50:DG:H1'	2:2:51:DT:H5'	1.38	1.04
3:A:381:SER:OG	3:A:383:LEU:N	1.90	1.04
3:A:491:ALA:N	3:A:526:TYR:O	1.90	1.04
3:A:630:GLN:O	3:A:633:GLN:NE2	1.90	1.04
4:B:670:GLY:HA3	4:B:687:LYS:O	1.56	1.04
4:B:842:ARG:HD3	4:B:845:ALA:HB2	1.39	1.04
5:D:97:GLY:CA	5:D:114:LEU:HA	1.88	1.04
8:G:336:VAL:HG23	8:G:354:ILE:HD11	1.35	1.04
9:X:47:LEU:HD22	9:X:69:LEU:HB3	1.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:49:DT:H3'	9:X:176:HIS:NE2	1.73	1.04
6:E:206:ALA:O	6:E:210:ARG:HD2	1.57	1.04
8:G:378:HIS:CE1	9:X:63:GLU:OE2	2.11	1.04
9:X:131:LEU:CD1	9:X:135:MET:CE	2.36	1.04
4:B:522:VAL:HG22	4:B:540:ILE:HB	1.38	1.04
4:B:523:VAL:HB	4:B:859:VAL:HG13	1.39	1.04
4:B:687:LYS:HD2	4:B:739:ARG:HD3	1.34	1.04
4:B:1027:CYS:SG	4:B:1084:SER:CB	2.45	1.04
5:C:32:GLN:CD	5:D:220:LEU:HD21	1.78	1.04
9:Y:145:MET:HE2	9:Y:192:ARG:HG3	1.36	1.04
4:B:125:MET:HG2	6:E:515:LEU:HD23	1.04	1.03
4:B:385:MET:HG3	4:B:406:GLN:N	1.71	1.03
4:B:708:LEU:N	4:B:723:ARG:O	1.90	1.03
9:X:131:LEU:HD12	9:X:135:MET:CE	1.87	1.03
9:Y:145:MET:CE	9:Y:192:ARG:HG3	1.88	1.03
1:1:102:DA:C8	8:G:208:THR:HG22	1.93	1.03
3:A:609:ARG:NH2	3:A:637:TYR:O	1.90	1.03
3:A:872:PRO:HA	3:A:961:ASP:HA	1.36	1.03
4:B:311:LEU:CD1	7:F:27:ASN:ND2	2.21	1.03
4:B:646:LEU:HB2	4:B:662:LYS:H	1.19	1.03
4:B:905:MET:HA	4:B:967:ARG:HG3	1.40	1.03
5:D:118:VAL:HG11	5:D:142:ILE:CB	1.87	1.03
3:A:707:ARG:HG3	3:A:710:GLN:OE1	1.56	1.03
4:B:352:LYS:HE2	4:B:358:LYS:HE2	1.35	1.03
3:A:148:TYR:CE1	3:A:322:ASN:ND2	2.21	1.03
3:A:278:ASN:O	3:A:282:ARG:N	1.91	1.03
3:A:546:GLU:OE2	3:A:547:HIS:NE2	1.91	1.03
4:B:250:HIS:HB2	4:B:254:LYS:NZ	1.73	1.03
4:B:385:MET:H	4:B:405:THR:HA	1.24	1.03
4:B:1202:LEU:HD11	4:B:1215:GLU:HG2	1.41	1.03
8:G:110:LEU:HD13	8:G:152:ARG:N	1.73	1.03
9:Y:53:LYS:CG	9:Y:68:LEU:HD23	1.89	1.03
3:A:305:ILE:O	3:A:308:GLU:N	1.91	1.03
4:B:473:THR:CG2	4:B:977:GLY:CA	2.37	1.03
4:B:603:PHE:HB2	4:B:781:ARG:HD2	1.38	1.03
4:B:648:VAL:HG11	4:B:661:VAL:HG12	1.40	1.03
5:D:184:ARG:HD3	5:D:185:ALA:N	1.72	1.03
8:G:114:GLU:O	8:G:117:ARG:N	1.92	1.03
3:A:736:ILE:CD1	3:A:772:LYS:HD3	1.87	1.02
4:B:303:LEU:HD22	6:E:503:GLY:H	1.22	1.02
4:B:441:ALA:O	4:B:999:PHE:N	1.92	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:9:VAL:HG11	5:C:22:LYS:HD2	1.39	1.02
3:A:970:ARG:HD2	4:B:49:VAL:HA	1.40	1.02
5:C:179:SER:OG	5:C:180:VAL:N	1.83	1.02
6:E:550:ILE:HD12	6:E:610:PRO:CG	1.89	1.02
8:G:242:ILE:HG23	8:G:266:MET:HE1	1.08	1.02
8:G:327:ASP:HA	8:G:334:ARG:HD3	1.41	1.02
4:B:653:TYR:OH	4:B:656:ALA:HB2	1.57	1.02
4:B:854:GLN:HG2	4:B:875:GLN:HB3	1.42	1.02
4:B:1202:LEU:HG	4:B:1203:ASN:H	1.23	1.02
1:1:58:DA:N1	2:2:68:DT:C4	2.27	1.02
3:A:49:GLU:O	3:A:52:SER:OG	1.78	1.02
3:A:72:TYR:HD1	3:A:74:LEU:HG	0.86	1.02
3:A:654:LYS:HE2	5:C:77:GLU:HG2	1.41	1.02
4:B:93:LYS:CD	4:B:372:HIS:NE2	2.21	1.02
4:B:283:ARG:CD	4:B:298:CYS:CB	2.38	1.02
8:G:120:LEU:HB3	8:G:128:PRO:HG3	1.41	1.02
1:1:86:DG:C2	2:2:40:DC:N3	2.27	1.02
4:B:304:ALA:HB2	6:E:438:ARG:HH22	0.91	1.02
5:D:79:ILE:CA	5:D:82:MET:HG2	1.90	1.02
4:B:96:ASP:HB2	4:B:422:GLN:OE1	1.60	1.01
4:B:487:VAL:O	4:B:879:LYS:NZ	1.92	1.01
4:B:772:GLN:HA	4:B:792:ARG:O	1.59	1.01
4:B:773:ARG:O	4:B:791:LEU:HA	1.60	1.01
4:B:1027:CYS:SG	4:B:1084:SER:OG	2.14	1.01
5:C:9:VAL:HG12	5:C:22:LYS:HB2	1.07	1.01
5:C:215:GLY:CA	5:D:225:LYS:HE2	1.89	1.01
6:E:67:LYS:CB	6:E:70:GLU:OE1	2.08	1.01
6:E:265:GLY:HA3	8:G:278:LYS:HE3	1.37	1.01
9:X:33:THR:HG21	9:X:91:HIS:CE1	1.94	1.01
1:1:98:DG:H5'	1:1:98:DG:C8	1.95	1.01
3:A:96:TYR:HA	3:A:115:PHE:HA	1.41	1.01
3:A:334:ASN:OD1	3:A:335:GLN:N	1.94	1.01
4:B:26:THR:OG1	4:B:27:ALA:N	1.82	1.01
4:B:453:VAL:HG23	4:B:988:VAL:HG22	1.04	1.01
4:B:760:GLN:HE22	4:B:806:GLU:HB2	1.23	1.01
4:B:1231:TRP:HA	6:E:11:TYR:HA	1.40	1.01
5:D:118:VAL:HG12	5:D:142:ILE:HG21	1.42	1.01
6:E:412:ASP:OD1	6:E:413:PRO:HD2	1.60	1.01
8:G:146:TYR:CE1	8:G:150:ILE:HD11	1.95	1.01
8:G:162:ASN:O	8:G:163:LEU:HG	1.57	1.01
9:Y:54:LEU:HB3	9:Y:67:ALA:HB3	1.38	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:72:DT:C7	9:X:187:ARG:CZ	2.33	1.01
4:B:687:LYS:CD	4:B:739:ARG:CD	2.37	1.01
4:B:1028:ILE:HD13	4:B:1088:SER:CB	1.88	1.01
4:B:1037:LYS:HD2	4:B:1052:ILE:HG22	1.38	1.01
8:G:146:TYR:HE1	8:G:150:ILE:HD11	1.19	1.01
8:G:242:ILE:HG23	8:G:266:MET:HE3	1.28	1.01
3:A:1054:ALA:HB1	3:A:1059:LYS:HZ3	1.20	1.01
4:B:384:ILE:HG21	4:B:394:SER:N	1.74	1.01
4:B:473:THR:HG21	4:B:977:GLY:HA2	1.40	1.01
4:B:1231:TRP:NE1	6:E:11:TYR:CD2	2.29	1.01
5:C:159:THR:HG22	5:C:163:PHE:CD2	1.92	1.01
5:D:84:GLU:OE1	5:D:84:GLU:N	1.94	1.01
9:Y:143:ARG:HA	9:Y:148:ARG:NH2	1.74	1.01
3:A:199:LEU:HD22	3:A:229:PHE:CE2	1.96	1.01
3:A:333:GLN:O	3:A:336:VAL:HG12	1.59	1.01
4:B:490:LEU:H	4:B:895:ARG:HG3	0.87	1.01
6:E:512:ASP:O	6:E:515:LEU:N	1.94	1.01
8:G:287:GLU:OE1	8:G:287:GLU:N	1.93	1.01
8:G:351:LEU:HA	8:G:354:ILE:HG22	1.42	1.01
9:X:179:ILE:HG22	9:X:189:THR:CG2	1.88	1.01
9:Y:135:MET:O	9:Y:136:MET:CG	2.08	1.01
3:A:616:THR:O	3:A:633:GLN:NE2	1.92	1.00
3:A:735:GLU:CA	3:A:772:LYS:HG3	1.91	1.00
3:A:1055:ILE:HG13	3:A:1056:VAL:N	1.73	1.00
4:B:250:HIS:NE2	4:B:255:GLU:O	1.94	1.00
5:C:79:ILE:HA	5:C:82:MET:HG2	1.01	1.00
5:C:102:ASN:HA	5:C:130:ILE:HD13	1.43	1.00
8:G:336:VAL:HG22	8:G:354:ILE:CD1	1.89	1.00
3:A:53:PHE:CE2	3:A:340:LEU:HB3	1.94	1.00
4:B:347:GLN:HG2	4:B:411:TYR:HE2	1.25	1.00
4:B:473:THR:HG22	4:B:978:ALA:N	1.76	1.00
4:B:855:THR:HA	4:B:873:ARG:HB2	1.42	1.00
4:B:1119:THR:OG1	4:B:1120:PHE:N	1.77	1.00
5:C:77:GLU:HA	5:C:80:MET:HG2	1.39	1.00
5:C:84:GLU:OE1	5:C:84:GLU:N	1.94	1.00
5:D:97:GLY:HA3	5:D:114:LEU:HA	1.04	1.00
9:X:75:PHE:HE2	9:X:100:LEU:HD22	1.21	1.00
3:A:600:TYR:HD2	3:A:607:ARG:HB2	1.24	1.00
3:A:602:ASP:OD1	3:A:603:ALA:N	1.93	1.00
4:B:653:TYR:CD1	4:B:671:VAL:HA	1.96	1.00
4:B:1022:LYS:HG2	4:B:1091:HIS:CD2	1.97	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:79:ILE:HA	5:D:82:MET:HG2	1.01	1.00
9:Y:194:LEU:O	9:Y:197:LEU:HG	1.61	1.00
4:B:726:GLN:HB2	4:B:737:LEU:HB3	1.43	1.00
9:X:176:HIS:HA	9:X:179:ILE:HD12	1.44	1.00
9:Y:46:PHE:HA	9:Y:74:VAL:HA	1.44	1.00
9:Y:204:SER:N	9:Y:211:THR:OG1	1.94	1.00
3:A:252:GLY:HA2	3:A:255:GLN:NE2	1.76	1.00
4:B:453:VAL:CG2	4:B:988:VAL:HG13	1.90	1.00
4:B:1151:LYS:HE2	4:B:1169:GLU:HG2	1.43	1.00
8:G:338:ARG:HG2	8:G:343:LEU:CB	1.90	1.00
9:X:30:ARG:HG2	9:X:97:PRO:HD3	1.02	1.00
4:B:473:THR:HG22	4:B:977:GLY:CA	1.91	1.00
4:B:657:GLY:C	4:B:668:ASN:HD21	1.64	1.00
5:D:77:GLU:HA	5:D:80:MET:HG2	1.40	1.00
6:E:47:TYR:CE1	6:E:48:ARG:HG3	1.96	1.00
3:A:607:ARG:HA	3:A:609:ARG:CG	1.92	1.00
4:B:1111:SER:O	4:B:1114:LEU:N	1.95	1.00
9:X:42:GLU:C	9:X:78:LEU:HB2	1.82	1.00
1:1:86:DG:C2	2:2:40:DC:C2	2.50	0.99
3:A:1077:LEU:CB	3:A:1082:LEU:CD1	2.38	0.99
3:A:51:ASN:ND2	3:A:69:GLY:O	1.94	0.99
3:A:258:ASP:OD1	3:A:259:SER:N	1.94	0.99
3:A:789:ARG:O	3:A:792:PHE:N	1.94	0.99
4:B:286:LEU:CD2	4:B:1142:GLU:HG3	1.93	0.99
5:C:9:VAL:HG13	5:C:22:LYS:HB2	1.44	0.99
9:X:42:GLU:O	9:X:78:LEU:CB	2.10	0.99
9:X:78:LEU:HD21	9:X:88:ARG:HD3	1.45	0.99
1:1:118:DG:N2	2:2:8:DC:O2	1.95	0.99
3:A:609:ARG:O	3:A:633:GLN:N	1.95	0.99
4:B:359:LEU:CG	4:B:387:LEU:H	1.75	0.99
5:C:79:ILE:CA	5:C:82:MET:HG2	1.90	0.99
8:G:343:LEU:O	8:G:344:ASP:OD1	1.80	0.99
9:X:33:THR:HG21	9:X:91:HIS:HE1	1.20	0.99
1:1:119:DA:C2	2:2:7:DT:N3	2.29	0.99
3:A:220:GLN:C	3:A:221:LYS:HD2	1.83	0.99
4:B:267:ASP:OD1	4:B:268:LEU:N	1.95	0.99
4:B:687:LYS:HD3	4:B:739:ARG:HD3	1.45	0.99
4:B:766:ILE:CD1	4:B:799:ILE:HD12	1.92	0.99
6:E:419:LEU:O	6:E:422:VAL:N	1.95	0.99
9:X:42:GLU:HA	9:X:78:LEU:HD13	1.41	0.99
9:X:47:LEU:HA	9:X:100:LEU:CD2	1.91	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:93:LYS:HD2	4:B:370:THR:HB	1.44	0.99
6:E:594:ARG:HG3	6:E:603:SER:HB3	1.42	0.99
3:A:215:HIS:ND1	3:A:309:TYR:CE2	2.30	0.99
3:A:558:ASN:O	3:A:561:ARG:N	1.95	0.99
4:B:101:THR:HG22	4:B:420:LYS:HB3	1.43	0.99
9:X:30:ARG:HG2	9:X:97:PRO:CD	1.93	0.99
4:B:283:ARG:CD	4:B:298:CYS:CA	2.40	0.99
4:B:517:THR:O	4:B:518:ILE:HG13	1.63	0.99
4:B:980:LEU:HA	4:B:995:VAL:HG23	1.44	0.99
1:1:86:DG:C6	2:2:40:DC:N4	2.30	0.99
3:A:609:ARG:HG3	3:A:610:VAL:N	1.67	0.99
3:A:633:GLN:HB2	3:A:635:ILE:HG12	1.45	0.99
4:B:190:THR:HG23	4:B:191:ALA:H	1.23	0.99
3:A:182:LEU:HD21	3:A:222:THR:OG1	1.63	0.98
3:A:789:ARG:O	3:A:793:GLY:N	1.96	0.98
3:A:828:LEU:HD12	3:A:829:PRO:O	1.63	0.98
4:B:453:VAL:HG21	4:B:988:VAL:CB	1.93	0.98
8:G:110:LEU:HD13	8:G:152:ARG:CB	1.93	0.98
9:X:35:PHE:HE1	9:X:88:ARG:HG2	1.25	0.98
4:B:93:LYS:CE	4:B:375:ASP:CB	2.26	0.98
4:B:147:MET:HG2	4:B:159:ILE:HD13	1.46	0.98
6:E:296:GLU:OE1	6:E:296:GLU:N	1.95	0.98
6:E:481:LEU:H	6:E:481:LEU:HD23	1.26	0.98
6:E:594:ARG:HH21	6:E:602:ILE:HG22	1.27	0.98
2:2:42:DT:H1'	2:2:43:DG:H5'	1.45	0.98
4:B:138:ARG:O	4:B:142:GLY:N	1.96	0.98
6:E:69:TRP:HE1	6:E:82:ARG:HG3	1.27	0.98
6:E:594:ARG:HG3	6:E:603:SER:CB	1.91	0.98
8:G:340:ARG:NH2	8:G:369:GLU:CG	2.25	0.98
9:X:42:GLU:HA	9:X:78:LEU:HD12	1.42	0.98
3:A:454:ASN:O	3:A:457:GLY:N	1.95	0.98
4:B:499:LYS:HB3	4:B:889:LYS:HZ3	0.84	0.98
5:D:10:GLU:CG	5:D:20:TYR:HE2	1.76	0.98
6:E:542:ILE:O	6:E:545:PHE:N	1.95	0.98
8:G:266:MET:HG2	8:G:273:LEU:HD21	1.00	0.98
9:X:47:LEU:HA	9:X:100:LEU:HD23	1.00	0.98
3:A:762:TRP:NE1	3:A:764:GLU:OE2	1.95	0.98
3:A:1091:THR:HG22	3:A:1093:ALA:N	1.79	0.98
6:E:95:GLU:HG2	6:E:96:SER:H	1.27	0.98
3:A:729:THR:HG22	3:A:731:LEU:H	1.26	0.98
4:B:189:ARG:NH1	4:B:330:LEU:O	1.97	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:10:GLU:HG2	5:D:20:TYR:HE2	1.26	0.98
3:A:180:ASN:OD1	3:A:182:LEU:N	1.96	0.98
3:A:590:ILE:HG23	3:A:669:LEU:HB2	1.41	0.98
3:A:1051:ALA:O	3:A:1054:ALA:N	1.97	0.98
4:B:906:ALA:O	4:B:966:ILE:N	1.97	0.98
4:B:1011:LEU:O	4:B:1014:ILE:N	1.97	0.98
6:E:538:LEU:O	6:E:539:ASP:C	1.95	0.98
9:X:56:ARG:HD2	9:X:64:ILE:HD11	1.45	0.98
1:1:94:DT:P	6:E:47:TYR:HH	1.84	0.98
6:E:47:TYR:HB3	8:G:231:LEU:HD23	1.41	0.98
9:X:162:VAL:N	9:X:169:THR:O	1.95	0.98
3:A:184:TRP:HB3	3:A:193:LEU:HD12	1.45	0.98
4:B:463:LYS:HG2	4:B:472:THR:HG22	1.00	0.98
4:B:676:GLN:OE1	4:B:678:ASN:N	1.97	0.98
9:Y:78:LEU:CG	9:Y:88:ARG:HH11	1.77	0.98
3:A:704:ILE:HG23	3:A:708:LEU:HD22	1.46	0.97
4:B:1153:ARG:HA	4:B:1167:LEU:HA	1.44	0.97
5:C:214:ALA:HB2	5:D:224:LEU:CD2	1.94	0.97
9:Y:162:VAL:N	9:Y:169:THR:O	1.95	0.97
4:B:479:LEU:HD23	4:B:971:PRO:HB3	1.45	0.97
6:E:332:LYS:NZ	8:G:297:ARG:HH22	1.62	0.97
6:E:400:ASN:OD1	6:E:403:ALA:N	1.97	0.97
4:B:714:LEU:HD11	4:B:736:LEU:HD22	1.41	0.97
6:E:611:GLY:O	6:E:614:ILE:N	1.97	0.97
3:A:58:ASP:HB3	3:A:63:LEU:HB3	1.42	0.97
3:A:734:GLU:O	3:A:772:LYS:HD2	1.63	0.97
4:B:10:LYS:NZ	4:B:14:ARG:HH21	1.62	0.97
4:B:288:CYS:HB3	4:B:295:CYS:SG	2.05	0.97
4:B:653:TYR:HD1	4:B:671:VAL:CA	1.77	0.97
4:B:922:ILE:O	4:B:937:SER:CA	2.11	0.97
5:C:168:SER:OG	5:C:169:ILE:N	1.86	0.97
8:G:114:GLU:OE2	8:G:115:ARG:HG3	1.64	0.97
1:1:80:DA:H2'	1:1:81:DT:H71	1.44	0.97
4:B:766:ILE:HG12	4:B:799:ILE:HD12	1.00	0.97
5:C:64:GLU:OE1	5:C:64:GLU:N	1.97	0.97
5:C:97:GLY:HA2	5:C:114:LEU:HA	1.46	0.97
8:G:83:ARG:CD	8:G:86:LEU:HD23	1.92	0.97
9:X:145:MET:HB2	9:X:183:ILE:HG21	1.42	0.97
4:B:928:LEU:HD21	4:B:934:ALA:H	1.27	0.97
5:C:63:HIS:CD2	5:C:65:PHE:H	1.83	0.97
5:C:206:PRO:O	5:C:209:ALA:N	1.98	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:131:LEU:CD1	9:X:135:MET:HE3	1.94	0.97
4:B:196:LEU:O	4:B:199:ARG:N	1.98	0.97
4:B:198:ARG:HH22	6:E:346:ARG:CZ	1.77	0.97
5:D:179:SER:OG	5:D:180:VAL:N	1.83	0.97
3:A:496:PRO:HA	3:A:922:MET:HG2	1.45	0.97
4:B:321:GLN:HA	6:E:436:LEU:CD2	1.95	0.97
6:E:582:GLY:HA2	6:E:596:ASP:HB3	1.46	0.97
4:B:548:GLN:HB3	4:B:567:GLY:H	1.30	0.97
4:B:597:ARG:HG3	4:B:788:VAL:CA	1.95	0.97
4:B:1061:TYR:O	4:B:1061:TYR:CD1	2.18	0.97
4:B:687:LYS:HD2	4:B:739:ARG:NE	1.77	0.96
3:A:176:GLU:OE2	3:A:184:TRP:HD1	1.48	0.96
3:A:779:SER:O	3:A:780:ASP:OD1	1.82	0.96
5:D:10:GLU:CG	5:D:20:TYR:CE2	2.47	0.96
4:B:283:ARG:CD	4:B:298:CYS:HA	1.93	0.96
4:B:614:LYS:HZ1	4:B:621:TYR:HA	1.29	0.96
9:Y:44:VAL:HA	9:Y:76:GLY:CA	1.94	0.96
3:A:653:GLN:HG2	3:A:671:ASP:C	1.85	0.96
3:A:684:GLN:HE22	3:A:713:ILE:CG2	1.78	0.96
4:B:606:PHE:CE1	4:B:778:ASP:N	2.34	0.96
5:D:13:THR:CG2	5:D:206:PRO:HD2	1.94	0.96
5:D:64:GLU:N	5:D:64:GLU:OE1	1.97	0.96
7:F:32:THR:O	7:F:35:VAL:N	1.97	0.96
8:G:77:TYR:CE1	8:G:78:THR:HG23	2.00	0.96
9:X:142:HIS:CB	9:X:148:ARG:HG2	1.95	0.96
3:A:542:ILE:HG23	3:A:856:HIS:HE1	1.06	0.96
4:B:441:ALA:HB2	4:B:1001:ARG:NH2	1.79	0.96
6:E:402:LYS:HD3	8:G:390:ARG:NH2	1.80	0.96
3:A:549:ASP:HB2	3:A:893:MET:HB2	1.45	0.96
3:A:557:SER:OG	3:A:558:ASN:N	1.81	0.96
3:A:667:GLN:HG2	3:A:668:VAL:H	1.26	0.96
3:A:748:LEU:H	3:A:751:LEU:HD12	0.79	0.96
3:A:1028:PHE:CE1	6:E:438:ARG:CA	2.38	0.96
9:Y:47:LEU:HB3	9:Y:69:LEU:HD23	1.44	0.96
9:Y:162:VAL:HG21	9:Y:171:ASP:HB2	1.48	0.96
1:1:81:DT:C4	2:2:45:DA:N6	2.34	0.96
1:1:97:DT:N3	2:2:29:DA:N1	2.14	0.96
1:1:119:DA:N1	2:2:7:DT:C4	2.32	0.96
3:A:80:SER:OG	3:A:83:GLU:N	1.98	0.96
4:B:1159:ASP:CB	4:B:1180:MET:CE	2.43	0.96
5:C:159:THR:CG2	5:C:163:PHE:CG	2.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:68:DT:H3	2:2:59:DG:H22	1.07	0.96
9:X:57:VAL:HG12	9:X:91:HIS:H	1.28	0.96
3:A:235:LEU:HB2	3:A:250:VAL:HA	1.45	0.96
4:B:107:ASP:OD1	4:B:108:GLU:N	1.99	0.96
4:B:285:PRO:HB3	4:B:294:VAL:HB	1.48	0.96
4:B:739:ARG:NH1	4:B:781:ARG:NH2	2.11	0.96
5:D:206:PRO:O	5:D:209:ALA:N	1.98	0.96
8:G:163:LEU:CD1	8:G:164:ARG:N	2.12	0.96
8:G:356:GLN:HA	8:G:360:VAL:CA	1.96	0.96
1:1:118:DG:O3'	1:1:119:DA:H3'	1.66	0.96
3:A:704:ILE:CG2	3:A:708:LEU:HD22	1.95	0.96
4:B:562:TYR:H	4:B:574:LEU:HD21	1.31	0.96
4:B:688:PRO:HD2	4:B:739:ARG:HD3	1.48	0.96
4:B:988:VAL:HG11	4:B:994:LEU:HD11	1.45	0.96
5:D:63:HIS:CD2	5:D:65:PHE:H	1.83	0.96
1:1:84:DA:C6	2:2:42:DT:O4	2.19	0.95
3:A:399:LYS:O	3:A:401:ARG:N	1.99	0.95
3:A:47:ILE:O	3:A:50:LEU:N	1.99	0.95
4:B:97:THR:OG1	4:B:422:GLN:NE2	1.99	0.95
4:B:366:ARG:HH12	4:B:369:ARG:HB2	1.31	0.95
4:B:1028:ILE:HD13	4:B:1088:SER:HB2	1.45	0.95
4:B:1050:LYS:HB2	4:B:1061:TYR:HA	1.46	0.95
2:2:5:DC:N3	2:2:6:DA:N6	2.14	0.95
3:A:460:GLU:HA	3:A:482:ALA:HA	1.45	0.95
4:B:604:LEU:HB2	4:B:631:TRP:CZ3	2.01	0.95
4:B:1090:PRO:HA	4:B:1093:ILE:HD11	1.48	0.95
3:A:214:ARG:O	3:A:215:HIS:CD2	2.19	0.95
3:A:1077:LEU:HB3	3:A:1082:LEU:HD13	1.48	0.95
4:B:490:LEU:H	4:B:895:ARG:CG	1.78	0.95
4:B:1107:TYR:OH	4:B:1174:GLU:HG3	1.64	0.95
5:C:215:GLY:HA2	5:D:225:LYS:CE	1.96	0.95
6:E:418:VAL:O	6:E:421:GLU:N	1.99	0.95
8:G:83:ARG:HD3	8:G:86:LEU:HD23	1.48	0.95
8:G:117:ARG:NE	8:G:134:ALA:O	2.00	0.95
4:B:283:ARG:HD3	4:B:298:CYS:CB	1.96	0.95
5:C:55:ALA:HB3	5:C:141:ARG:HD2	1.49	0.95
5:C:217:LEU:O	5:C:219:ASP:N	2.00	0.95
6:E:210:ARG:HA	6:E:213:ILE:HG12	1.48	0.95
9:X:176:HIS:ND1	9:X:190:VAL:HG22	1.81	0.95
3:A:735:GLU:HA	3:A:772:LYS:HD2	1.45	0.95
4:B:597:ARG:CG	4:B:788:VAL:HA	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:392:LEU:HB3	6:E:398:VAL:HB	1.48	0.95
3:A:994:SER:OG	3:A:995:THR:N	1.90	0.95
4:B:519:HIS:O	4:B:865:ILE:HG22	1.65	0.95
9:X:57:VAL:HB	9:X:91:HIS:HB3	1.45	0.95
2:2:33:DA:H2"	2:2:34:DA:H8	1.31	0.95
4:B:352:LYS:HD3	4:B:358:LYS:HZ1	1.31	0.95
4:B:463:LYS:HZ1	4:B:467:GLN:N	1.64	0.95
4:B:473:THR:CG2	4:B:977:GLY:HA2	1.97	0.95
4:B:523:VAL:HG21	4:B:866:VAL:HG23	1.47	0.95
1:1:71:DT:O5'	9:X:145:MET:CE	2.14	0.95
3:A:144:SER:O	3:A:148:TYR:OH	1.84	0.95
3:A:263:ASP:OD2	3:A:266:ARG:NH1	2.00	0.95
4:B:63:ARG:HH21	4:B:67:GLU:HB3	1.32	0.95
4:B:260:ARG:HG3	4:B:261:ASN:ND2	1.81	0.95
4:B:842:ARG:HD2	4:B:845:ALA:HB2	1.46	0.95
4:B:1014:ILE:HD11	4:B:1128:VAL:HG11	1.45	0.95
4:B:1231:TRP:CD1	6:E:11:TYR:CB	2.50	0.95
3:A:59:TYR:H	3:A:352:THR:HG21	1.31	0.95
3:A:214:ARG:O	3:A:215:HIS:HD2	1.47	0.95
3:A:968:PHE:CZ	4:B:48:GLY:HA3	2.01	0.95
4:B:708:LEU:O	4:B:723:ARG:N	1.99	0.95
8:G:163:LEU:HD11	8:G:164:ARG:HG3	1.48	0.95
4:B:18:SER:OG	4:B:19:TRP:N	1.94	0.94
4:B:352:LYS:CD	4:B:358:LYS:NZ	2.30	0.94
4:B:453:VAL:HG21	4:B:988:VAL:CG2	1.81	0.94
4:B:66:LEU:HD11	4:B:143:MET:SD	2.07	0.94
4:B:359:LEU:HG	4:B:387:LEU:H	0.81	0.94
4:B:361:ARG:HA	4:B:391:LYS:HB2	1.48	0.94
6:E:438:ARG:HH21	6:E:500:PRO:HB3	1.29	0.94
8:G:318:LEU:CA	8:G:388:TYR:CE2	2.26	0.94
4:B:544:VAL:HG22	4:B:758:VAL:H	1.32	0.94
4:B:1145:VAL:O	4:B:1148:MET:N	2.01	0.94
1:1:115:DA:H2	2:2:11:DT:O2	1.47	0.94
3:A:270:GLY:O	3:A:273:GLY:N	2.00	0.94
4:B:714:LEU:HD12	4:B:736:LEU:HD22	1.46	0.94
9:X:143:ARG:N	9:X:148:ARG:HD3	1.81	0.94
3:A:70:HIS:CE1	3:A:71:ASN:CG	2.41	0.94
4:B:1221:THR:OG1	4:B:1222:GLU:N	1.89	0.94
6:E:501:ALA:O	6:E:502:THR:OG1	1.86	0.94
9:X:179:ILE:CB	9:X:189:THR:CG2	2.25	0.94
1:1:89:DA:N1	2:2:37:DT:C2	2.34	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:64:GLU:H	3:A:103:ASN:HA	1.30	0.94
3:A:393:LEU:C	3:A:393:LEU:HD12	1.86	0.94
4:B:1088:SER:OG	4:B:1093:ILE:HG21	1.65	0.94
5:C:13:THR:CG2	5:C:206:PRO:CD	2.45	0.94
8:G:322:LEU:O	8:G:325:VAL:N	1.99	0.94
9:X:37:PRO:HG2	9:X:57:VAL:HG11	1.50	0.94
3:A:174:LYS:CE	3:A:189:LYS:H	1.79	0.94
4:B:77:GLU:HA	4:B:80:TYR:HB3	1.47	0.94
5:C:13:THR:HG21	5:C:206:PRO:CD	1.98	0.94
6:E:560:PHE:O	6:E:604:GLN:CG	2.15	0.94
1:1:79:DA:H2"	1:1:80:DA:H5"	1.48	0.94
3:A:298:LEU:O	3:A:301:VAL:HG22	1.67	0.94
3:A:571:ARG:NE	3:A:679:GLU:OE2	2.00	0.94
4:B:29:THR:OG1	4:B:30:ALA:N	1.89	0.94
4:B:99:ASN:HB3	4:B:423:LEU:HB2	1.49	0.94
4:B:453:VAL:HG23	4:B:988:VAL:H	1.33	0.94
4:B:773:ARG:HD3	4:B:792:ARG:CB	1.97	0.94
5:D:217:LEU:O	5:D:219:ASP:N	2.00	0.94
6:E:220:LYS:CE	6:E:223:LYS:HD2	1.96	0.94
6:E:320:GLY:O	6:E:321:ARG:NH2	2.01	0.94
8:G:266:MET:HG2	8:G:273:LEU:CD2	1.95	0.94
9:Y:145:MET:HA	9:Y:183:ILE:HD12	1.48	0.94
3:A:70:HIS:HE1	3:A:71:ASN:HD21	1.11	0.94
3:A:72:TYR:CD1	3:A:74:LEU:HD12	2.00	0.94
3:A:609:ARG:HB2	3:A:635:ILE:C	1.86	0.94
4:B:1090:PRO:HA	4:B:1093:ILE:CD1	1.97	0.94
4:B:1159:ASP:C	4:B:1180:MET:HE1	1.88	0.94
5:C:153:ARG:NH1	5:D:187:GLY:O	2.01	0.94
5:D:17:ARG:CG	5:D:201:ASN:O	2.14	0.94
2:2:43:DG:H1'	2:2:44:DA:C8	2.03	0.94
5:D:139:GLU:N	5:D:139:GLU:OE1	2.01	0.94
9:Y:53:LYS:CG	9:Y:68:LEU:CD2	2.44	0.94
2:2:38:DT:H2"	2:2:39:DT:H71	1.47	0.93
4:B:67:GLU:N	4:B:67:GLU:OE1	2.00	0.93
4:B:216:THR:HG21	4:B:288:CYS:HA	1.50	0.93
5:C:139:GLU:OE1	5:C:139:GLU:N	2.01	0.93
6:E:355:ASP:OD1	6:E:356:TYR:CD2	2.21	0.93
3:A:727:ARG:HH21	3:A:832:ALA:HB2	1.33	0.93
4:B:147:MET:CG	4:B:159:ILE:HD13	1.98	0.93
4:B:488:TYR:OH	4:B:879:LYS:N	2.01	0.93
5:D:184:ARG:CD	5:D:185:ALA:H	1.82	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:258:THR:C	8:G:262:ILE:HG12	1.87	0.93
1:1:58:DA:H2	2:2:68:DT:N3	1.60	0.93
4:B:385:MET:SD	4:B:406:GLN:CB	2.57	0.93
4:B:479:LEU:HA	4:B:973:ARG:HA	1.51	0.93
4:B:713:GLU:OE1	4:B:716:GLY:N	2.01	0.93
4:B:766:ILE:CG2	4:B:799:ILE:HD11	1.92	0.93
5:D:35:THR:HA	5:D:38:ASN:HB3	1.49	0.93
5:D:40:LEU:O	5:D:43:VAL:N	2.01	0.93
5:D:100:LEU:CD2	5:D:137:GLU:HA	1.98	0.93
1:1:119:DA:H1'	1:1:120:DT:N3	1.84	0.93
3:A:828:LEU:HD13	3:A:832:ALA:CB	1.98	0.93
3:A:1033:THR:OG1	3:A:1034:LEU:N	1.94	0.93
4:B:176:SER:OG	4:B:177:TYR:N	1.94	0.93
6:E:282:ARG:HH11	6:E:305:MET:HB3	1.31	0.93
6:E:331:LEU:HD12	6:E:331:LEU:N	1.82	0.93
9:X:47:LEU:CD1	9:X:100:LEU:HD21	1.98	0.93
3:A:1039:THR:O	3:A:1042:SER:N	2.00	0.93
4:B:499:LYS:CB	4:B:889:LYS:NZ	2.25	0.93
4:B:613:LYS:HA	4:B:617:ALA:HB2	1.50	0.93
8:G:130:ASP:OD1	8:G:131:SER:N	2.01	0.93
1:1:89:DA:N6	2:2:37:DT:O4	2.02	0.93
4:B:271:GLU:O	4:B:274:LYS:N	2.01	0.93
4:B:760:GLN:HG2	4:B:764:ARG:HE	1.29	0.93
4:B:661:VAL:O	4:B:664:ILE:N	2.02	0.93
4:B:671:VAL:O	4:B:687:LYS:HB3	1.67	0.93
5:D:107:ILE:HD13	5:D:136:LEU:CD2	1.97	0.93
3:A:1087:HIS:HB3	3:A:1098:LEU:HD23	1.49	0.93
4:B:895:ARG:O	4:B:989:GLN:NE2	2.02	0.93
6:E:296:GLU:O	6:E:299:VAL:N	2.02	0.93
6:E:511:GLN:O	6:E:514:VAL:N	2.00	0.93
8:G:110:LEU:HD13	8:G:152:ARG:HB3	1.47	0.93
8:G:146:TYR:CE1	8:G:150:ILE:HD12	2.00	0.93
1:1:99:DT:H1'	8:G:212:TRP:CH2	2.04	0.93
3:A:734:GLU:CG	3:A:772:LYS:HZ3	1.81	0.93
4:B:193:SER:O	4:B:196:LEU:N	2.02	0.93
1:1:89:DA:N6	2:2:37:DT:N3	1.95	0.93
1:1:102:DA:H8	8:G:208:THR:CG2	1.82	0.93
3:A:1054:ALA:CB	3:A:1059:LYS:NZ	2.31	0.93
4:B:384:ILE:HG21	4:B:393:GLY:C	1.89	0.93
4:B:522:VAL:HG23	4:B:524:ARG:H	1.32	0.93
5:D:10:GLU:HG2	5:D:20:TYR:CE2	2.03	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:188:ILE:HD11	6:E:300:ARG:HE	1.31	0.93
8:G:351:LEU:CA	8:G:354:ILE:HG22	1.98	0.93
3:A:455:GLN:OE1	3:A:455:GLN:N	2.02	0.92
3:A:606:ILE:C	3:A:609:ARG:HE	1.73	0.92
4:B:70:GLU:O	4:B:73:ILE:HG12	1.68	0.92
4:B:597:ARG:HG3	4:B:788:VAL:HA	1.47	0.92
5:D:104:PRO:HA	5:D:131:ALA:HA	1.51	0.92
5:D:168:SER:OG	5:D:169:ILE:N	1.86	0.92
6:E:216:ALA:CA	6:E:219:GLN:HG2	1.99	0.92
6:E:359:ARG:NH2	6:E:472:GLN:OE1	2.01	0.92
9:X:154:LEU:HD12	9:X:157:CYS:SG	2.09	0.92
2:2:66:DA:H1'	2:2:67:DA:C6	2.04	0.92
4:B:361:ARG:HG3	4:B:390:ARG:HG2	1.50	0.92
5:D:148:TYR:OH	5:D:171:MET:HA	1.68	0.92
8:G:340:ARG:HH21	8:G:369:GLU:CG	1.79	0.92
3:A:1017:PHE:CZ	3:A:1025:LEU:HD11	2.05	0.92
4:B:1028:ILE:CD1	4:B:1088:SER:HB2	1.99	0.92
9:Y:206:HIS:ND1	9:Y:209:LYS:HB2	1.85	0.92
1:1:80:DA:C6	2:2:46:DT:O4	2.22	0.92
3:A:968:PHE:CE1	4:B:48:GLY:HA3	2.04	0.92
5:C:32:GLN:OE1	5:D:220:LEU:HD21	1.70	0.92
5:D:55:ALA:HB3	5:D:141:ARG:HD2	1.49	0.92
8:G:361:THR:OG1	8:G:365:ILE:HD11	1.69	0.92
1:1:84:DA:C6	2:2:42:DT:C4	2.57	0.92
3:A:600:TYR:N	3:A:607:ARG:O	2.02	0.92
4:B:93:LYS:C	4:B:95:ILE:H	1.70	0.92
9:Y:78:LEU:HD21	9:Y:88:ARG:CG	1.65	0.92
3:A:366:ASN:OD1	3:A:368:LYS:N	2.02	0.92
3:A:900:GLU:OE1	3:A:900:GLU:N	2.02	0.92
4:B:360:PRO:HA	4:B:390:ARG:HB3	1.49	0.92
5:D:97:GLY:HA3	5:D:114:LEU:CA	1.99	0.92
6:E:305:MET:O	6:E:308:GLU:N	2.02	0.92
3:A:498:ASP:HB3	3:A:502:TYR:O	1.69	0.92
3:A:512:TYR:N	3:A:515:GLU:O	2.02	0.92
4:B:265:SER:OG	4:B:266:ASP:OD1	1.86	0.92
4:B:671:VAL:O	4:B:687:LYS:CB	2.16	0.92
4:B:687:LYS:HD2	4:B:739:ARG:CZ	1.99	0.92
8:G:315:LYS:O	8:G:318:LEU:N	2.03	0.92
3:A:797:ARG:NE	3:A:798:ASP:OD1	2.02	0.92
5:C:40:LEU:O	5:C:43:VAL:N	2.01	0.92
6:E:334:LEU:O	6:E:337:ILE:HG22	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:98:VAL:HG11	9:X:100:LEU:HD12	1.49	0.92
1:1:87:DA:N6	2:2:39:DT:C4	2.38	0.92
3:A:227:GLY:HA2	3:A:229:PHE:CE2	2.04	0.92
3:A:330:GLU:OE1	3:A:330:GLU:N	2.03	0.92
7:F:32:THR:O	7:F:35:VAL:HG12	1.67	0.92
8:G:336:VAL:HG23	8:G:354:ILE:CD1	1.96	0.92
1:1:88:DA:C2	2:2:38:DT:N3	2.38	0.92
3:A:41:PHE:O	3:A:45:GLY:N	2.03	0.92
3:A:59:TYR:CE1	3:A:348:ARG:HG3	2.05	0.92
3:A:1032:TYR:OH	4:B:1249:THR:HG23	1.70	0.92
1:1:78:DA:N1	2:2:48:DT:N3	2.18	0.91
4:B:772:GLN:HB3	4:B:791:LEU:HD11	1.50	0.91
5:D:98:ARG:HB2	5:D:113:ASP:HB3	1.51	0.91
6:E:216:ALA:HB2	6:E:219:GLN:HG3	1.52	0.91
3:A:302:ASP:O	3:A:305:ILE:N	2.02	0.91
3:A:913:ARG:O	3:A:914:PHE:HD1	1.51	0.91
3:A:542:ILE:CG2	3:A:856:HIS:CE1	2.38	0.91
4:B:37:LYS:HG3	4:B:38:ASP:N	1.83	0.91
4:B:311:LEU:HD12	7:F:27:ASN:HD22	1.20	0.91
4:B:928:LEU:HG	4:B:933:PHE:HA	1.52	0.91
5:D:13:THR:HA	5:D:19:HIS:HA	1.50	0.91
8:G:232:PRO:HB3	8:G:234:HIS:CE1	2.04	0.91
3:A:259:SER:OG	3:A:260:ARG:N	1.99	0.91
4:B:1126:GLN:O	4:B:1129:TYR:N	2.02	0.91
6:E:47:TYR:HB2	8:G:231:LEU:CD2	1.98	0.91
6:E:494:SER:OG	6:E:495:ASN:N	1.83	0.91
1:1:78:DA:N6	2:2:48:DT:C4	2.38	0.91
3:A:72:TYR:CE1	3:A:74:LEU:HD12	2.05	0.91
4:B:631:TRP:HD1	4:B:633:PRO:HG3	1.29	0.91
6:E:362:ILE:HG12	6:E:432:ARG:HH22	1.35	0.91
6:E:412:ASP:CG	6:E:413:PRO:HD2	1.91	0.91
6:E:510:SER:OG	6:E:511:GLN:N	1.92	0.91
3:A:44:GLU:O	3:A:46:LEU:N	2.04	0.91
3:A:58:ASP:OD2	3:A:60:THR:OG1	1.89	0.91
3:A:615:PRO:HG2	3:A:616:THR:HG22	1.52	0.91
4:B:125:MET:CG	6:E:515:LEU:HD21	1.90	0.91
5:D:58:ILE:HG22	5:D:60:GLY:H	1.35	0.91
9:Y:33:THR:HA	9:Y:93:VAL:HA	1.50	0.91
1:1:75:DA:N1	2:2:51:DT:N3	1.78	0.91
3:A:602:ASP:OD2	5:C:70:GLY:N	2.03	0.91
4:B:490:LEU:HD13	4:B:892:GLU:HG3	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:687:LYS:CG	4:B:739:ARG:HD3	2.01	0.91
4:B:822:LEU:HA	4:B:826:ASP:HA	1.53	0.91
6:E:41:LYS:HE3	6:E:43:GLU:OE2	1.71	0.91
6:E:145:TYR:HB2	6:E:162:LEU:HB2	1.51	0.91
3:A:249:THR:O	3:A:252:GLY:N	2.03	0.91
3:A:820:PHE:HB2	3:A:835:VAL:HB	1.49	0.91
4:B:89:GLU:HB3	4:B:371:ARG:HB2	1.50	0.91
8:G:292:LYS:O	8:G:293:GLU:CG	2.18	0.91
4:B:525:LEU:HA	4:B:859:VAL:HG21	1.53	0.91
4:B:631:TRP:HD1	4:B:633:PRO:CG	1.84	0.91
5:D:62:SER:OG	5:D:63:HIS:ND1	2.04	0.91
6:E:28:ARG:NE	6:E:102:ARG:HD2	1.85	0.91
3:A:721:LYS:O	3:A:722:TYR:CD1	2.24	0.91
3:A:1028:PHE:HE1	6:E:438:ARG:CB	1.66	0.91
4:B:1245:ILE:HG22	4:B:1247:ALA:H	1.31	0.91
9:X:47:LEU:CD2	9:X:69:LEU:CB	2.41	0.91
5:C:62:SER:OG	5:C:63:HIS:ND1	2.04	0.90
3:A:100:ARG:HG2	3:A:101:LEU:N	1.87	0.90
4:B:616:LYS:HG2	4:B:619:LEU:O	1.70	0.90
6:E:188:ILE:CD1	6:E:300:ARG:HE	1.83	0.90
6:E:220:LYS:HD2	6:E:223:LYS:HD2	0.93	0.90
6:E:370:ILE:HG22	6:E:457:HIS:CG	2.06	0.90
8:G:114:GLU:OE2	8:G:115:ARG:CG	2.18	0.90
9:X:35:PHE:CE1	9:X:88:ARG:HG2	2.05	0.90
2:2:63:DC:H41	9:Y:187:ARG:HD2	1.36	0.90
3:A:1017:PHE:CE2	3:A:1025:LEU:HD12	2.05	0.90
6:E:42:PRO:O	6:E:57:LEU:HD23	1.72	0.90
3:A:600:TYR:O	3:A:607:ARG:N	2.04	0.90
3:A:1077:LEU:HB3	3:A:1082:LEU:HD11	1.51	0.90
4:B:250:HIS:HE1	4:B:252:LYS:HD2	1.33	0.90
4:B:453:VAL:CG2	4:B:988:VAL:CG1	2.47	0.90
5:C:101:VAL:HB	5:C:136:LEU:CD1	2.00	0.90
4:B:99:ASN:HB3	4:B:423:LEU:CB	2.01	0.90
4:B:590:GLU:OE2	4:B:792:ARG:NH1	2.04	0.90
5:C:183:VAL:HG22	5:C:193:ARG:HG3	1.51	0.90
6:E:526:GLY:O	6:E:528:THR:HG23	1.70	0.90
8:G:138:GLN:OE1	8:G:138:GLN:N	2.04	0.90
1:1:100:DA:C4	8:G:204:TYR:OH	2.24	0.90
1:1:123:DA:N6	2:2:3:DT:O4	2.04	0.90
8:G:258:THR:HG1	8:G:262:ILE:HD11	1.31	0.90
8:G:378:HIS:ND1	9:X:57:VAL:CG2	2.33	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:62:LYS:O	3:A:105:GLU:N	2.05	0.90
4:B:93:LYS:HZ1	4:B:415:GLY:HA2	1.26	0.90
4:B:283:ARG:HD3	4:B:298:CYS:HB3	1.50	0.90
4:B:455:PHE:HA	4:B:481:TRP:HE3	1.34	0.90
5:C:58:ILE:HG22	5:C:60:GLY:H	1.35	0.90
6:E:316:ASN:N	6:E:333:SER:OG	2.04	0.90
6:E:530:GLY:O	6:E:556:VAL:CG2	2.20	0.90
9:Y:161:GLY:HA2	9:Y:170:ILE:HD13	1.54	0.90
4:B:482:ILE:HG22	4:B:970:ARG:H	1.35	0.90
5:C:188:SER:O	5:C:189:ILE:HG13	1.72	0.90
8:G:185:GLN:O	8:G:188:SER:N	2.05	0.90
2:2:30:DG:C2	2:2:31:DA:H1'	2.05	0.90
3:A:96:TYR:CE2	3:A:115:PHE:HD1	1.89	0.90
3:A:589:VAL:HA	3:A:653:GLN:HE22	1.36	0.90
3:A:764:GLU:N	3:A:767:ASP:OD2	2.04	0.90
4:B:283:ARG:HG2	4:B:298:CYS:HB2	0.90	0.90
4:B:322:SER:OG	4:B:323:ILE:N	1.87	0.90
4:B:1155:ASP:HB2	4:B:1189:GLN:HB2	1.54	0.90
6:E:420:GLU:OE1	6:E:420:GLU:N	2.03	0.90
9:X:131:LEU:CD1	9:X:135:MET:HE1	2.02	0.90
2:2:6:DA:H3'	2:2:7:DT:H72	1.55	0.89
3:A:189:LYS:HG3	3:A:190:THR:H	1.34	0.89
3:A:720:GLU:OE2	3:A:721:LYS:N	2.04	0.89
4:B:93:LYS:C	4:B:95:ILE:N	2.18	0.89
4:B:106:LYS:CE	4:B:138:ARG:HD3	2.02	0.89
4:B:207:VAL:HG13	4:B:293:SER:CA	2.01	0.89
4:B:604:LEU:HB2	4:B:631:TRP:CE3	2.06	0.89
4:B:764:ARG:HH11	4:B:834:ILE:HD11	1.34	0.89
4:B:1117:VAL:O	4:B:1120:PHE:HB3	1.71	0.89
5:D:213:ALA:O	5:D:216:ILE:N	2.05	0.89
6:E:407:LEU:HD11	6:E:412:ASP:HB2	1.54	0.89
8:G:263:ALA:HA	8:G:266:MET:HB3	1.50	0.89
9:Y:35:PHE:CD2	9:Y:92:ALA:HB2	2.06	0.89
3:A:142:VAL:O	3:A:324:ARG:N	2.05	0.89
3:A:607:ARG:CA	3:A:609:ARG:HG2	2.01	0.89
3:A:613:GLN:HG2	3:A:614:LEU:H	1.37	0.89
4:B:597:ARG:HD3	4:B:788:VAL:HG13	1.52	0.89
6:E:196:LEU:O	6:E:199:ASP:HB3	1.72	0.89
6:E:370:ILE:HG13	6:E:371:HIS:ND1	1.86	0.89
9:X:176:HIS:CG	9:X:190:VAL:CG2	2.55	0.89
3:A:717:ILE:O	3:A:718:HIS:ND1	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:360:PRO:CB	4:B:390:ARG:HD3	2.01	0.89
5:D:19:HIS:HB3	5:D:206:PRO:CD	2.03	0.89
9:Y:78:LEU:HD11	9:Y:88:ARG:HD2	0.90	0.89
3:A:109:ILE:HG13	3:A:110:LYS:N	1.87	0.89
4:B:26:THR:O	4:B:29:THR:N	2.04	0.89
4:B:250:HIS:CE1	4:B:254:LYS:O	2.26	0.89
4:B:688:PRO:HD2	4:B:739:ARG:HD2	1.53	0.89
5:C:79:ILE:O	5:C:82:MET:N	2.06	0.89
5:D:62:SER:OG	5:D:63:HIS:N	2.02	0.89
5:D:208:GLU:OE1	5:D:208:GLU:N	2.05	0.89
4:B:414:ASP:OD1	4:B:415:GLY:N	2.05	0.89
4:B:439:GLU:O	4:B:1001:ARG:N	2.05	0.89
4:B:484:SER:OG	4:B:904:ASP:OD1	1.89	0.89
4:B:846:ALA:HA	4:B:852:SER:HB2	1.52	0.89
8:G:100:GLU:HA	8:G:103:LEU:HD12	1.53	0.89
3:A:743:VAL:HG11	3:A:748:LEU:HD23	1.54	0.89
5:C:77:GLU:O	5:C:80:MET:N	2.06	0.89
5:C:217:LEU:O	5:C:220:LEU:N	2.06	0.89
5:D:74:ASP:OD1	5:D:75:VAL:N	2.06	0.89
5:D:79:ILE:O	5:D:82:MET:N	2.06	0.89
6:E:296:GLU:O	6:E:298:ILE:N	2.05	0.89
6:E:536:ALA:HA	6:E:559:ARG:HB3	1.55	0.89
8:G:190:GLY:O	8:G:193:ARG:N	2.06	0.89
3:A:429:ARG:NH1	3:A:484:GLU:HG3	1.88	0.89
3:A:912:VAL:HG22	3:A:914:PHE:CE1	2.08	0.89
4:B:10:LYS:HZ2	4:B:14:ARG:HH21	1.20	0.89
4:B:723:ARG:HD2	4:B:738:SER:HB3	1.54	0.89
8:G:326:LEU:HD21	8:G:343:LEU:HD21	1.54	0.89
9:X:161:GLY:HA2	9:X:170:ILE:HD13	1.54	0.89
9:Y:121:LEU:HA	9:Y:124:ARG:HH12	1.37	0.89
1:1:87:DA:H2'	1:1:87:DA:OP2	1.72	0.89
3:A:546:GLU:HB3	3:A:919:PHE:H	1.34	0.89
3:A:928:SER:HA	3:A:931:ILE:HD12	1.53	0.89
4:B:1081:GLN:NE2	4:B:1082:PRO:O	2.06	0.89
8:G:121:SER:HA	8:G:127:ASP:HA	1.54	0.89
9:X:154:LEU:HA	9:X:157:CYS:SG	2.12	0.89
9:Y:48:LEU:O	9:Y:49:LYS:HD2	1.73	0.89
4:B:144:ARG:HB2	4:B:159:ILE:HB	1.53	0.89
4:B:521:GLY:HA2	4:B:760:GLN:CB	2.02	0.89
4:B:583:GLN:HG3	4:B:584:ASN:H	1.34	0.89
6:E:533:LYS:C	6:E:556:VAL:HG13	1.93	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:489:ARG:CB	3:A:524:VAL:HA	2.03	0.89
4:B:265:SER:OG	4:B:266:ASP:N	2.04	0.89
4:B:922:ILE:HD13	4:B:936:GLU:HB3	1.55	0.89
6:E:314:ILE:H	6:E:314:ILE:HD12	1.36	0.89
8:G:336:VAL:HG22	8:G:354:ILE:HD11	1.47	0.89
1:1:85:DG:O6	2:2:40:DC:N4	2.06	0.88
4:B:1081:GLN:NE2	4:B:1085:ASP:OD1	2.06	0.88
1:1:73:DA:H1'	1:1:74:DT:O5'	1.72	0.88
4:B:173:ILE:O	4:B:176:SER:OG	1.88	0.88
4:B:210:ARG:HD2	4:B:210:ARG:N	1.86	0.88
5:C:28:LEU:HD11	5:C:194:LEU:HB2	1.53	0.88
5:D:28:LEU:HD11	5:D:194:LEU:HB2	1.52	0.88
6:E:550:ILE:HD11	6:E:610:PRO:HB3	1.55	0.88
1:1:86:DG:C6	2:2:40:DC:N3	2.41	0.88
3:A:156:ASN:OD1	3:A:157:GLY:N	2.06	0.88
4:B:913:LYS:HB2	4:B:915:LYS:HG2	1.54	0.88
4:B:939:GLN:O	4:B:967:ARG:N	2.05	0.88
5:C:208:GLU:OE1	5:C:208:GLU:N	2.05	0.88
8:G:249:LEU:HG	8:G:262:ILE:HD12	1.54	0.88
9:X:37:PRO:CG	9:X:57:VAL:HG11	2.04	0.88
9:X:166:ASP:OD1	9:X:167:GLY:N	2.05	0.88
2:2:50:DG:OP2	9:X:190:VAL:HG13	1.72	0.88
3:A:425:SER:HB2	3:A:484:GLU:CD	1.93	0.88
4:B:463:LYS:HZ1	4:B:467:GLN:H	0.95	0.88
6:E:188:ILE:CD1	6:E:300:ARG:NE	2.37	0.88
6:E:550:ILE:HD12	6:E:610:PRO:HG3	1.55	0.88
9:X:131:LEU:HD12	9:X:135:MET:HE3	1.54	0.88
3:A:597:ASP:OD1	3:A:662:ARG:NE	2.05	0.88
4:B:90:ARG:HA	4:B:372:HIS:HD2	1.38	0.88
4:B:96:ASP:C	4:B:422:GLN:HA	1.92	0.88
4:B:488:TYR:HB3	4:B:490:LEU:HD21	1.56	0.88
4:B:536:GLU:CA	4:B:838:LEU:O	2.21	0.88
5:C:74:ASP:OD1	5:C:75:VAL:N	2.06	0.88
5:C:86:ILE:O	5:C:121:ILE:HG12	1.74	0.88
5:C:213:ALA:O	5:C:216:ILE:N	2.05	0.88
6:E:228:LEU:O	6:E:231:ILE:N	2.07	0.88
6:E:486:GLU:OE1	6:E:486:GLU:N	2.07	0.88
8:G:120:LEU:HD23	8:G:128:PRO:HB3	1.55	0.88
3:A:345:ARG:O	3:A:348:ARG:N	2.05	0.88
4:B:89:GLU:HA	4:B:369:ARG:C	1.94	0.88
4:B:201:VAL:HG13	4:B:202:ASP:N	1.85	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1160:THR:HG21	4:B:1190:TYR:OH	1.73	0.88
2:2:57:DT:H1'	2:2:58:DA:C4	2.08	0.88
3:A:735:GLU:HA	3:A:772:LYS:CD	2.04	0.88
5:D:77:GLU:O	5:D:80:MET:N	2.06	0.88
6:E:94:THR:OG1	6:E:98:VAL:HG21	1.73	0.88
9:Y:80:LEU:HD12	9:Y:81:LEU:N	1.88	0.88
1:1:80:DA:H2"	1:1:81:DT:H5'	1.56	0.88
3:A:199:LEU:HD23	3:A:229:PHE:CE2	2.05	0.88
3:A:1017:PHE:HE2	3:A:1025:LEU:HD12	1.35	0.88
4:B:252:LYS:HZ2	4:B:255:GLU:HA	1.38	0.88
4:B:581:LYS:HG3	4:B:814:ALA:HB3	1.53	0.88
4:B:1244:LEU:O	4:B:1245:ILE:HG13	1.74	0.88
5:C:183:VAL:CG2	5:C:193:ARG:HG3	2.03	0.88
6:E:76:TYR:CD2	6:E:81:HIS:CD2	2.61	0.88
7:F:32:THR:OG1	7:F:33:VAL:N	1.98	0.88
9:Y:53:LYS:HG2	9:Y:68:LEU:HD22	1.54	0.88
3:A:557:SER:OG	3:A:558:ASN:OD1	1.92	0.88
3:A:767:ASP:N	3:A:767:ASP:OD1	1.99	0.88
4:B:93:LYS:HE2	4:B:375:ASP:HB2	0.88	0.88
4:B:443:LYS:H	4:B:997:LEU:H	1.19	0.88
4:B:800:GLU:HG2	4:B:801:GLN:H	1.38	0.88
3:A:67:PHE:CE1	3:A:99:THR:HB	2.07	0.88
3:A:881:ASP:OD1	3:A:881:ASP:N	1.96	0.88
4:B:223:ARG:HG3	4:B:279:GLU:HG3	1.55	0.88
4:B:1090:PRO:HA	4:B:1093:ILE:CG1	2.03	0.88
5:D:205:SER:N	5:D:208:GLU:OE2	2.06	0.88
8:G:135:GLU:OE1	8:G:135:GLU:N	2.07	0.88
8:G:149:HIS:CE1	8:G:153:ARG:HD3	2.09	0.88
8:G:320:GLU:O	8:G:323:GLU:N	2.07	0.88
9:Y:32:LYS:HB3	9:Y:94:ALA:HB3	1.55	0.88
9:Y:166:ASP:OD1	9:Y:167:GLY:N	2.05	0.88
1:1:86:DG:C6	2:2:40:DC:C4	2.61	0.87
1:1:87:DA:N1	2:2:39:DT:C4	2.41	0.87
4:B:467:GLN:HE21	4:B:470:THR:H	1.20	0.87
4:B:631:TRP:CD1	4:B:633:PRO:CG	2.55	0.87
4:B:898:LEU:HD23	4:B:900:LEU:HG	1.56	0.87
6:E:296:GLU:H	6:E:296:GLU:CD	1.75	0.87
9:Y:170:ILE:HG22	9:Y:172:LEU:H	1.35	0.87
3:A:1016:ARG:HA	6:E:353:ARG:HA	1.54	0.87
4:B:93:LYS:CE	4:B:372:HIS:CE1	2.57	0.87
5:C:205:SER:N	5:C:208:GLU:OE2	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:81:LEU:HD23	9:Y:82:THR:CG2	2.02	0.87
2:2:61:DT:C7	9:Y:188:VAL:HG23	2.04	0.87
3:A:600:TYR:CD2	3:A:607:ARG:HB2	2.10	0.87
4:B:614:LYS:NZ	4:B:622:GLU:H	1.72	0.87
5:D:118:VAL:CG2	5:D:142:ILE:HG13	2.04	0.87
8:G:340:ARG:HB2	8:G:354:ILE:HD13	1.56	0.87
4:B:816:ILE:CG1	4:B:833:VAL:HG23	2.04	0.87
5:C:101:VAL:HB	5:C:136:LEU:HD12	1.56	0.87
6:E:254:PRO:HG2	6:E:255:ASP:H	1.38	0.87
6:E:533:LYS:HB2	6:E:556:VAL:CG1	2.04	0.87
9:Y:67:ALA:HB1	9:Y:75:PHE:CZ	2.09	0.87
9:Y:148:ARG:HD2	9:Y:183:ILE:HD13	1.57	0.87
3:A:174:LYS:HE3	3:A:189:LYS:N	1.90	0.87
4:B:880:GLU:HG2	4:B:899:VAL:HG13	1.57	0.87
5:C:151:VAL:HG13	5:C:156:GLU:HG3	1.55	0.87
9:X:47:LEU:CD1	9:X:52:VAL:CG2	2.53	0.87
9:X:176:HIS:O	9:X:189:THR:CB	2.22	0.87
3:A:161:TYR:CE2	3:A:308:GLU:HA	2.09	0.87
3:A:271:ARG:N	3:A:290:ARG:HH12	1.73	0.87
4:B:311:LEU:CD1	7:F:27:ASN:HD21	1.81	0.87
4:B:1140:HIS:O	4:B:1143:VAL:N	2.06	0.87
6:E:53:GLU:O	6:E:54:MET:CG	2.23	0.87
6:E:560:PHE:O	6:E:604:GLN:HG3	1.74	0.87
9:X:69:LEU:HG	9:X:70:ARG:H	1.40	0.87
9:X:203:ILE:HG22	9:X:212:VAL:HA	1.52	0.87
3:A:176:GLU:OE2	3:A:184:TRP:CD1	2.28	0.87
4:B:626:GLY:O	4:B:746:VAL:N	2.07	0.87
6:E:206:ALA:O	6:E:210:ARG:CD	2.21	0.87
4:B:170:THR:OG1	4:B:171:GLU:N	1.99	0.87
4:B:330:LEU:O	4:B:332:MET:N	2.06	0.87
5:D:206:PRO:HB2	5:D:207:GLN:OE1	1.74	0.87
6:E:585:THR:HG23	6:E:593:VAL:O	1.74	0.87
9:X:176:HIS:CB	9:X:190:VAL:HG23	2.03	0.87
9:Y:206:HIS:H	9:Y:209:LYS:H	1.21	0.87
2:2:33:DA:H2"	2:2:34:DA:C8	2.09	0.87
3:A:188:ASP:OD1	3:A:191:ARG:CB	2.20	0.87
3:A:298:LEU:HA	3:A:301:VAL:HG22	1.54	0.87
3:A:631:LYS:NZ	3:A:632:GLY:O	2.07	0.87
3:A:1036:GLU:OE2	3:A:1037:LEU:N	2.07	0.87
4:B:264:ILE:HG23	4:B:264:ILE:O	1.75	0.87
4:B:669:SER:O	4:B:689:GLY:N	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:13:THR:HG21	5:D:206:PRO:HD2	1.54	0.87
6:E:47:TYR:HB2	8:G:231:LEU:HD23	1.53	0.87
7:F:67:ASP:OD1	7:F:68:GLU:N	2.06	0.87
4:B:100:GLY:HA2	4:B:424:LEU:CD1	2.05	0.86
4:B:103:GLU:HB2	4:B:424:LEU:HD12	1.56	0.86
4:B:538:GLU:HG3	4:B:540:ILE:CG1	2.03	0.86
5:D:86:ILE:O	5:D:121:ILE:HG12	1.74	0.86
8:G:110:LEU:HB2	8:G:151:GLY:HA3	1.57	0.86
8:G:335:ASP:OD1	8:G:339:LEU:HD23	1.74	0.86
3:A:65:LEU:HA	3:A:102:LEU:HD22	1.56	0.86
3:A:467:GLU:HG3	3:A:472:ARG:HH12	1.38	0.86
3:A:535:VAL:HG21	3:A:540:SER:HB3	1.55	0.86
5:D:63:HIS:HA	5:D:164:LEU:HD11	1.56	0.86
9:Y:202:MET:O	9:Y:213:HIS:N	2.07	0.86
3:A:96:TYR:CZ	3:A:115:PHE:HB3	2.10	0.86
3:A:351:MET:HA	3:A:359:LEU:HD11	1.56	0.86
3:A:617:ALA:C	3:A:620:LYS:H	1.78	0.86
3:A:1028:PHE:CD1	6:E:438:ARG:CB	2.45	0.86
4:B:452:GLU:O	4:B:483:LEU:HB2	1.75	0.86
9:X:179:ILE:HG22	9:X:189:THR:HG22	1.45	0.86
3:A:174:LYS:HE3	3:A:189:LYS:H	1.40	0.86
4:B:69:ALA:O	4:B:72:GLU:HB3	1.75	0.86
4:B:220:ILE:O	4:B:281:VAL:HA	1.74	0.86
4:B:443:LYS:C	4:B:996:LEU:HD13	1.96	0.86
5:C:9:VAL:HG11	5:C:22:LYS:HB2	1.54	0.86
5:C:206:PRO:HB2	5:C:207:GLN:OE1	1.74	0.86
6:E:386:PRO:O	6:E:389:ILE:N	2.09	0.86
6:E:544:ALA:HB1	6:E:549:GLN:HB2	1.54	0.86
1:1:102:DA:C8	8:G:208:THR:CG2	2.58	0.86
3:A:180:ASN:ND2	3:A:182:LEU:HB3	1.89	0.86
3:A:334:ASN:O	3:A:337:ARG:HG2	1.76	0.86
3:A:598:VAL:HG23	3:A:608:VAL:CG1	2.06	0.86
3:A:887:LEU:HD12	4:B:131:ARG:NH2	1.67	0.86
5:C:62:SER:OG	5:C:63:HIS:N	2.02	0.86
5:D:165:GLN:OE1	5:D:165:GLN:N	2.09	0.86
6:E:398:VAL:HG11	6:E:404:ALA:HB2	1.57	0.86
6:E:564:VAL:HG12	6:E:565:GLU:C	1.95	0.86
9:X:47:LEU:CD1	9:X:100:LEU:CD2	2.53	0.86
3:A:50:LEU:O	3:A:53:PHE:N	2.08	0.86
3:A:598:VAL:HA	3:A:615:PRO:HB3	1.56	0.86
3:A:792:PHE:CE1	8:G:385:LEU:HD11	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:682:ARG:HG3	4:B:683:GLU:HG2	1.57	0.86
6:E:515:LEU:C	6:E:515:LEU:HD12	1.94	0.86
9:X:42:GLU:CA	9:X:78:LEU:CD1	2.53	0.86
4:B:80:TYR:HB2	4:B:90:ARG:HG2	1.57	0.86
4:B:520:GLY:O	4:B:764:ARG:NH2	2.09	0.86
5:D:10:GLU:HG3	5:D:20:TYR:CE2	2.11	0.86
9:Y:30:ARG:HD2	9:Y:96:THR:HA	1.55	0.86
1:1:86:DG:C2	2:2:40:DC:O2	2.26	0.86
1:1:87:DA:C6	2:2:39:DT:C4	2.64	0.86
3:A:598:VAL:HG12	3:A:661:GLU:H	1.39	0.86
3:A:599:VAL:HG11	3:A:613:GLN:HB3	1.56	0.86
4:B:208:ILE:O	4:B:210:ARG:HD2	1.75	0.86
5:C:83:LYS:NZ	5:C:167:ASP:O	2.09	0.86
3:A:81:VAL:O	3:A:84:ALA:N	2.08	0.86
4:B:125:MET:HG2	6:E:515:LEU:HD22	1.50	0.86
4:B:440:LYS:HZ2	4:B:1000:GLU:H	1.23	0.86
4:B:1091:HIS:CE1	4:B:1092:GLU:CG	2.58	0.86
8:G:336:VAL:HA	8:G:339:LEU:HB2	1.57	0.86
2:2:36:DT:H1'	2:2:37:DT:H5'	1.57	0.86
3:A:597:ASP:N	3:A:615:PRO:HA	1.91	0.86
4:B:565:THR:HA	4:B:571:VAL:HA	1.54	0.86
8:G:121:SER:OG	8:G:122:GLU:N	2.06	0.86
1:1:58:DA:N1	2:2:68:DT:O4	2.08	0.85
3:A:174:LYS:HE3	3:A:189:LYS:CA	2.06	0.85
3:A:1023:TRP:HE3	6:E:436:LEU:HD13	1.40	0.85
4:B:463:LYS:HE3	4:B:466:ARG:HB3	1.56	0.85
5:D:83:LYS:NZ	5:D:167:ASP:O	2.09	0.85
6:E:572:GLU:OE1	6:E:572:GLU:N	2.08	0.85
9:Y:29:GLU:HG3	9:Y:32:LYS:HB2	1.57	0.85
2:2:34:DA:H2'	2:2:35:DA:C8	2.10	0.85
3:A:63:LEU:HD12	3:A:103:ASN:HB3	1.58	0.85
3:A:70:HIS:ND1	3:A:70:HIS:O	2.09	0.85
3:A:694:GLU:HB3	4:B:41:PHE:HB3	1.57	0.85
3:A:327:SER:O	3:A:331:LEU:HD23	1.74	0.85
3:A:395:GLU:N	3:A:395:GLU:OE1	2.10	0.85
3:A:756:ILE:HG22	3:A:757:ILE:H	1.39	0.85
3:A:787:LEU:O	3:A:790:ALA:N	2.07	0.85
4:B:36:LEU:C	4:B:36:LEU:HD12	1.96	0.85
4:B:106:LYS:HE3	4:B:138:ARG:HD3	1.57	0.85
4:B:514:LYS:HZ3	4:B:873:ARG:CZ	1.85	0.85
4:B:538:GLU:HB3	4:B:837:SER:HB2	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:165:GLN:OE1	5:C:165:GLN:N	2.09	0.85
5:D:200:THR:OG1	5:D:201:ASN:N	2.02	0.85
6:E:530:GLY:O	6:E:556:VAL:HG21	1.75	0.85
6:E:583:SER:HA	6:E:585:THR:H	1.39	0.85
6:E:595:GLU:HG2	6:E:596:ASP:N	1.90	0.85
3:A:607:ARG:HD3	3:A:636:ARG:HH22	1.40	0.85
4:B:413:VAL:H	4:B:424:LEU:HD22	1.41	0.85
4:B:602:GLY:HA2	4:B:634:GLU:HG2	1.58	0.85
6:E:216:ALA:CA	6:E:219:GLN:CG	2.52	0.85
6:E:308:GLU:N	6:E:308:GLU:OE1	2.10	0.85
8:G:110:LEU:CD1	8:G:152:ARG:HB3	2.06	0.85
8:G:242:ILE:HG21	8:G:266:MET:HE3	1.58	0.85
3:A:288:THR:O	3:A:290:ARG:N	2.10	0.85
4:B:286:LEU:HD21	4:B:1142:GLU:HG3	1.56	0.85
4:B:378:PHE:CE1	4:B:413:VAL:HG11	2.10	0.85
4:B:510:LEU:HD21	4:B:878:SER:HB3	1.59	0.85
4:B:513:THR:H	4:B:874:THR:H	1.22	0.85
4:B:542:ALA:HA	4:B:759:SER:CA	2.04	0.85
4:B:773:ARG:CD	4:B:792:ARG:HB3	2.05	0.85
4:B:1237:GLU:O	4:B:1240:ILE:N	2.09	0.85
5:C:51:THR:HG22	5:C:144:ARG:HA	1.58	0.85
6:E:81:HIS:NE2	6:E:84:ILE:HG22	1.91	0.85
9:Y:43:ARG:NH1	9:Y:44:VAL:CG2	2.39	0.85
1:1:73:DA:H1'	1:1:74:DT:P	2.17	0.85
2:2:29:DA:H1'	2:2:30:DG:O4'	1.77	0.85
3:A:291:VAL:HG12	3:A:292:LEU:H	1.41	0.85
3:A:727:ARG:N	3:A:734:GLU:OE2	2.08	0.85
4:B:359:LEU:HB3	4:B:360:PRO:CD	2.06	0.85
8:G:131:SER:H	8:G:134:ALA:H	1.18	0.85
9:Y:197:LEU:HD12	9:Y:198:ARG:HG3	1.56	0.85
2:2:48:DT:H4'	2:2:49:DT:OP1	1.76	0.85
2:2:61:DT:H73	9:Y:188:VAL:CG2	2.06	0.85
4:B:1239:VAL:HG13	4:B:1240:ILE:N	1.90	0.85
6:E:518:TYR:O	6:E:521:THR:N	2.10	0.85
3:A:773:VAL:HA	3:A:801:ASP:HA	1.58	0.85
3:A:935:LYS:O	3:A:938:GLU:HG3	1.77	0.85
4:B:305:HIS:HA	6:E:498:LEU:HD21	1.58	0.85
4:B:818:LEU:HG	4:B:819:ILE:N	1.92	0.85
5:D:76:LEU:HD12	5:D:76:LEU:N	1.91	0.85
5:D:205:SER:HG	5:D:206:PRO:N	1.71	0.85
9:Y:69:LEU:HG	9:Y:70:ARG:H	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:191:ARG:HH12	3:A:243:ARG:H	1.25	0.85
4:B:96:ASP:CA	4:B:423:LEU:H	1.90	0.85
4:B:169:VAL:HG23	4:B:170:THR:H	1.42	0.85
4:B:885:ARG:HB2	4:B:898:LEU:HD13	1.59	0.85
4:B:1082:PRO:HB3	4:B:1088:SER:HB3	1.59	0.85
5:C:211:SER:HA	5:D:225:LYS:CA	2.04	0.85
6:E:28:ARG:CZ	6:E:102:ARG:CD	2.43	0.85
6:E:71:CYS:HA	6:E:91:VAL:HG11	1.59	0.85
8:G:313:VAL:O	8:G:316:ASN:N	2.09	0.85
9:Y:69:LEU:HD12	9:Y:70:ARG:HD3	1.58	0.85
3:A:522:GLU:OE1	3:A:522:GLU:N	2.10	0.85
4:B:903:SER:HA	4:B:906:ALA:HA	1.56	0.85
4:B:1028:ILE:HD13	4:B:1088:SER:HB3	1.59	0.85
5:C:88:LYS:H	5:C:121:ILE:HD11	1.40	0.85
4:B:549:ALA:HB1	4:B:564:ILE:HG23	1.58	0.84
4:B:638:GLU:HA	4:B:683:GLU:HA	1.59	0.84
9:X:33:THR:CG2	9:X:91:HIS:CE1	2.59	0.84
9:X:131:LEU:HD11	9:X:135:MET:HE1	1.57	0.84
9:Y:57:VAL:HB	9:Y:91:HIS:H	1.40	0.84
2:2:27:DA:H2"	8:G:237:GLU:CD	1.97	0.84
3:A:58:ASP:OD1	3:A:62:LYS:N	2.10	0.84
3:A:391:ASN:O	3:A:393:LEU:N	2.09	0.84
3:A:983:VAL:O	3:A:985:LEU:HG	1.77	0.84
3:A:1015:GLN:NE2	6:E:359:ARG:HD2	1.92	0.84
4:B:612:GLN:HB2	4:B:614:LYS:HB2	1.56	0.84
6:E:140:VAL:HG23	6:E:141:TYR:HD2	1.40	0.84
6:E:282:ARG:NH1	6:E:305:MET:HB3	1.90	0.84
8:G:287:GLU:HB2	8:G:297:ARG:HG2	1.58	0.84
3:A:624:ASN:HD22	3:A:627:LEU:HD13	1.40	0.84
3:A:1054:ALA:CB	3:A:1059:LYS:HZ1	1.89	0.84
4:B:356:THR:HG23	4:B:411:TYR:CD2	2.12	0.84
4:B:482:ILE:HG21	4:B:970:ARG:HH11	1.41	0.84
4:B:1149:THR:O	4:B:1149:THR:OG1	1.87	0.84
8:G:338:ARG:HG2	8:G:343:LEU:HB2	1.57	0.84
9:X:179:ILE:HB	9:X:189:THR:HG21	0.85	0.84
3:A:184:TRP:HB3	3:A:193:LEU:HA	1.58	0.84
3:A:222:THR:HG23	3:A:224:GLU:C	1.98	0.84
3:A:545:LEU:O	3:A:547:HIS:N	2.10	0.84
3:A:596:GLY:H	3:A:662:ARG:HH21	1.25	0.84
3:A:635:ILE:O	3:A:637:TYR:N	2.10	0.84
4:B:15:ASN:OD1	4:B:16:LEU:N	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:360:PRO:HB3	4:B:390:ARG:CD	2.07	0.84
4:B:764:ARG:NH2	4:B:806:GLU:O	2.09	0.84
4:B:978:ALA:HA	4:B:997:LEU:HG	1.59	0.84
6:E:263:ASP:OD1	6:E:264:GLY:N	2.10	0.84
6:E:409:SER:OG	6:E:410:ARG:NH1	2.09	0.84
8:G:378:HIS:ND1	9:X:57:VAL:HG23	1.91	0.84
9:X:42:GLU:CA	9:X:78:LEU:CB	2.55	0.84
9:Y:44:VAL:HG11	9:Y:46:PHE:CE2	2.12	0.84
3:A:388:ASP:N	3:A:388:ASP:OD1	2.00	0.84
3:A:550:ALA:O	3:A:553:ALA:N	2.10	0.84
4:B:250:HIS:CE1	4:B:252:LYS:HA	2.13	0.84
4:B:542:ALA:CA	4:B:759:SER:HA	2.04	0.84
5:D:17:ARG:HG2	5:D:201:ASN:C	1.98	0.84
6:E:185:GLU:HG3	6:E:195:ARG:NH1	1.92	0.84
9:X:145:MET:CB	9:X:183:ILE:HG21	2.07	0.84
3:A:46:LEU:H	3:A:46:LEU:HD23	1.41	0.84
3:A:360:THR:O	3:A:364:LEU:HD22	1.78	0.84
4:B:797:LEU:HB3	4:B:832:LEU:HD21	1.58	0.84
4:B:1151:LYS:CE	4:B:1169:GLU:HG2	2.08	0.84
6:E:619:ILE:O	6:E:622:ALA:N	2.09	0.84
8:G:378:HIS:NE2	9:X:57:VAL:CG2	2.14	0.84
9:X:64:ILE:HD12	9:X:66:VAL:HB	1.58	0.84
9:X:69:LEU:HD12	9:X:70:ARG:HD3	1.58	0.84
1:1:100:DA:H8	1:1:100:DA:O5'	1.59	0.84
3:A:39:ARG:C	3:A:43:GLU:OE1	2.16	0.84
3:A:968:PHE:HD1	3:A:970:ARG:H	1.26	0.84
4:B:4:ARG:H	6:E:616:ASN:HD21	1.23	0.84
4:B:455:PHE:HA	4:B:481:TRP:CE3	2.13	0.84
4:B:794:GLN:HG2	4:B:795:LEU:N	1.89	0.84
5:D:75:VAL:HG13	5:D:76:LEU:HD12	1.59	0.84
8:G:249:LEU:HG	8:G:262:ILE:CD1	2.08	0.84
9:X:43:ARG:HH12	9:X:107:GLN:HB3	1.41	0.84
9:X:56:ARG:HE	9:X:66:VAL:HG11	1.40	0.84
9:X:169:THR:HA	9:X:212:VAL:HB	1.60	0.84
3:A:81:VAL:HG23	3:A:82:GLU:H	1.42	0.84
4:B:250:HIS:ND1	4:B:250:HIS:O	2.11	0.84
4:B:631:TRP:HE1	4:B:633:PRO:HA	1.42	0.84
7:F:31:ILE:O	7:F:34:GLN:N	2.11	0.84
1:1:84:DA:C5	2:2:42:DT:O4	2.30	0.84
3:A:405:LEU:HD11	3:A:443:LEU:HD23	1.60	0.84
3:A:552:ARG:NH1	3:A:892:ARG:HG2	1.91	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:736:ILE:HD13	3:A:772:LYS:HB2	1.60	0.84
4:B:93:LYS:CD	4:B:370:THR:HB	2.07	0.84
4:B:385:MET:HG3	4:B:406:GLN:H	1.39	0.84
4:B:606:PHE:HE1	4:B:778:ASP:N	1.73	0.84
4:B:609:VAL:HG22	4:B:626:GLY:HA3	1.60	0.84
6:E:547:GLN:HB3	6:E:549:GLN:HE21	1.41	0.84
1:1:101:DT:O2	1:1:101:DT:H2'	1.75	0.84
1:1:107:DG:C5	1:1:108:DA:N6	2.45	0.84
2:2:49:DT:H1'	2:2:50:DG:C8	2.11	0.84
3:A:298:LEU:O	3:A:301:VAL:N	2.10	0.84
3:A:756:ILE:HG22	3:A:757:ILE:N	1.92	0.84
3:A:1015:GLN:HE22	6:E:359:ARG:CD	1.89	0.84
4:B:100:GLY:HA2	4:B:424:LEU:CG	2.07	0.84
4:B:100:GLY:HA2	4:B:424:LEU:HD11	1.56	0.84
4:B:100:GLY:HA3	4:B:421:GLY:C	1.98	0.84
4:B:538:GLU:CG	4:B:540:ILE:HG12	2.04	0.84
4:B:617:ALA:O	4:B:777:LYS:NZ	2.11	0.84
4:B:675:THR:OG1	4:B:683:GLU:O	1.95	0.84
5:C:130:ILE:HB	5:C:136:LEU:HD11	1.58	0.84
6:E:480:SER:OG	6:E:483:SER:N	2.10	0.84
9:X:47:LEU:HD11	9:X:52:VAL:HG23	1.58	0.84
9:Y:56:ARG:HA	9:Y:90:TYR:HB3	1.60	0.84
3:A:638:THR:OG1	3:A:639:VAL:N	2.04	0.83
3:A:792:PHE:HE1	8:G:382:ASN:HB2	1.43	0.83
4:B:201:VAL:HG23	4:B:317:ILE:HG22	1.58	0.83
4:B:473:THR:HG21	4:B:977:GLY:CA	2.07	0.83
5:C:76:LEU:HD12	5:C:76:LEU:N	1.91	0.83
6:E:202:LEU:HD11	6:E:235:ILE:HG23	1.60	0.83
6:E:402:LYS:HD2	6:E:405:LYS:HD3	1.60	0.83
8:G:110:LEU:HD13	8:G:152:ARG:CA	2.08	0.83
1:1:58:DA:H1'	1:1:59:DT:C5	2.13	0.83
3:A:413:GLU:OE1	3:A:413:GLU:N	2.11	0.83
4:B:190:THR:HG23	4:B:191:ALA:N	1.93	0.83
4:B:303:LEU:HD22	6:E:503:GLY:N	1.93	0.83
4:B:621:TYR:CD2	4:B:774:LEU:N	2.46	0.83
4:B:1132:GLN:OE1	4:B:1132:GLN:N	2.11	0.83
1:1:84:DA:C2	2:2:42:DT:C4	2.66	0.83
1:1:114:DC:O2	2:2:12:DG:N2	2.12	0.83
3:A:735:GLU:O	3:A:772:LYS:HG3	1.77	0.83
4:B:653:TYR:CD1	4:B:671:VAL:CA	2.59	0.83
4:B:694:VAL:HG12	4:B:735:ALA:N	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:847:ASP:HB3	4:B:850:GLN:HB3	1.58	0.83
4:B:1089:ASN:HB3	4:B:1091:HIS:NE2	1.93	0.83
5:C:9:VAL:HG11	5:C:22:LYS:CD	2.08	0.83
5:C:194:LEU:C	5:C:195:LEU:HD12	1.98	0.83
1:1:78:DA:H2"	1:1:79:DA:H8	1.44	0.83
4:B:597:ARG:HG3	4:B:788:VAL:CB	2.07	0.83
4:B:634:GLU:OE1	4:B:781:ARG:NH2	2.11	0.83
4:B:1017:LEU:HD12	4:B:1017:LEU:C	1.99	0.83
4:B:1231:TRP:NE1	6:E:11:TYR:HD2	1.73	0.83
6:E:156:LEU:HD11	6:E:170:ILE:HD12	1.59	0.83
9:Y:78:LEU:CD1	9:Y:88:ARG:HH11	1.91	0.83
3:A:261:PHE:HB2	3:A:262:PHE:CE1	2.13	0.83
3:A:489:ARG:HB3	3:A:524:VAL:HA	1.60	0.83
3:A:828:LEU:CD1	3:A:829:PRO:O	2.27	0.83
4:B:597:ARG:CG	4:B:788:VAL:CG1	2.34	0.83
4:B:609:VAL:HA	4:B:625:GLN:O	1.78	0.83
5:C:220:LEU:N	5:C:220:LEU:HD12	1.91	0.83
5:D:194:LEU:C	5:D:195:LEU:HD12	1.98	0.83
6:E:512:ASP:OD1	6:E:512:ASP:N	1.97	0.83
6:E:587:LEU:HD12	6:E:587:LEU:N	1.92	0.83
9:Y:78:LEU:HD21	9:Y:88:ARG:HG2	0.83	0.83
3:A:106:THR:OG1	3:A:108:ASP:OD2	1.96	0.83
3:A:162:SER:HA	3:A:176:GLU:HA	1.60	0.83
4:B:366:ARG:NH1	4:B:369:ARG:HB2	1.93	0.83
4:B:385:MET:N	4:B:405:THR:HA	1.93	0.83
4:B:1245:ILE:HG23	4:B:1246:PRO:HD2	1.60	0.83
6:E:78:ARG:HD3	8:G:347:ARG:HE	1.41	0.83
6:E:125:ILE:O	6:E:129:LEU:HD13	1.78	0.83
6:E:131:MET:HB2	6:E:136:VAL:HG21	1.61	0.83
6:E:619:ILE:H	6:E:619:ILE:HD12	1.41	0.83
9:X:30:ARG:CG	9:X:97:PRO:CD	2.53	0.83
9:Y:170:ILE:HG22	9:Y:171:ASP:H	1.43	0.83
1:1:87:DA:C6	2:2:39:DT:O4	2.32	0.83
3:A:174:LYS:HE3	3:A:189:LYS:HA	1.60	0.83
3:A:364:LEU:H	3:A:364:LEU:HD23	1.41	0.83
3:A:1076:GLU:OE1	3:A:1076:GLU:N	2.12	0.83
4:B:910:ILE:HD11	4:B:930:PRO:HD2	1.59	0.83
4:B:1209:SER:OG	4:B:1210:ALA:N	2.01	0.83
4:B:1215:GLU:OE2	4:B:1218:ARG:CD	2.26	0.83
5:C:55:ALA:HA	5:C:165:GLN:HA	1.60	0.83
6:E:131:MET:HB2	6:E:136:VAL:CG2	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:179:ILE:HG21	9:X:189:THR:HG22	0.84	0.83
3:A:715:THR:O	3:A:715:THR:OG1	1.90	0.83
3:A:748:LEU:CA	3:A:751:LEU:HD12	2.08	0.83
4:B:575:ARG:HG3	4:B:794:GLN:HG3	1.61	0.83
4:B:1115:GLN:O	4:B:1118:GLN:N	2.12	0.83
9:X:98:VAL:CG1	9:X:100:LEU:CD1	2.57	0.83
9:X:107:GLN:HA	9:X:111:ALA:HB3	1.57	0.83
9:Y:109:GLU:O	9:Y:113:LYS:HG2	1.79	0.83
3:A:180:ASN:OD1	3:A:181:ASP:N	2.11	0.83
3:A:403:SER:OG	3:A:404:ALA:N	2.07	0.83
3:A:1077:LEU:C	3:A:1082:LEU:CD1	2.47	0.83
4:B:763:GLY:O	4:B:765:SER:OG	1.97	0.83
4:B:1173:VAL:CG2	4:B:1190:TYR:CE1	2.61	0.83
9:Y:47:LEU:HD23	9:Y:69:LEU:HB3	1.59	0.83
9:Y:78:LEU:CD2	9:Y:88:ARG:CD	2.57	0.83
9:Y:169:THR:HA	9:Y:212:VAL:HB	1.60	0.83
3:A:95:MET:O	3:A:115:PHE:HA	1.79	0.83
3:A:330:GLU:HG2	3:A:331:LEU:N	1.94	0.83
3:A:351:MET:SD	3:A:352:THR:OG1	2.35	0.83
4:B:311:LEU:HD12	7:F:27:ASN:HD21	1.03	0.83
4:B:356:THR:CG2	4:B:411:TYR:CE2	2.56	0.83
4:B:558:GLY:HA2	4:B:559:ARG:HH11	1.43	0.83
4:B:759:SER:HB3	4:B:766:ILE:HB	1.60	0.83
8:G:131:SER:O	8:G:134:ALA:N	2.10	0.83
1:1:75:DA:C6	2:2:52:DA:C2	2.68	0.82
1:1:100:DA:N3	8:G:204:TYR:CZ	2.47	0.82
3:A:38:PHE:O	3:A:39:ARG:C	2.12	0.82
3:A:154:ASP:CG	3:A:158:ARG:H	1.81	0.82
3:A:579:GLU:O	3:A:582:GLY:N	2.12	0.82
3:A:931:ILE:O	3:A:934:GLY:N	2.12	0.82
3:A:1068:GLU:O	3:A:1071:LYS:N	2.12	0.82
4:B:93:LYS:HZ1	4:B:375:ASP:HA	1.44	0.82
5:C:75:VAL:HG13	5:C:76:LEU:HD12	1.59	0.82
5:C:101:VAL:HG11	5:C:107:ILE:CD1	2.09	0.82
6:E:150:PRO:HB2	6:E:183:GLY:HA3	1.61	0.82
6:E:576:VAL:HG12	6:E:586:VAL:HG23	1.59	0.82
8:G:163:LEU:HD12	8:G:164:ARG:CA	2.09	0.82
8:G:192:ILE:O	8:G:195:ALA:N	2.12	0.82
9:X:48:LEU:HB3	9:X:99:GLU:HG3	1.59	0.82
9:Y:55:SER:CB	9:Y:65:THR:HG22	2.09	0.82
9:Y:56:ARG:HB2	9:Y:90:TYR:CD1	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:87:DA:C6	2:2:39:DT:N3	2.47	0.82
3:A:185:VAL:CG2	3:A:197:VAL:HA	2.08	0.82
3:A:961:ASP:OD1	3:A:961:ASP:N	1.95	0.82
3:A:1087:HIS:NE2	6:E:11:TYR:CZ	2.47	0.82
4:B:93:LYS:NZ	4:B:415:GLY:CA	2.41	0.82
4:B:678:ASN:O	4:B:680:ILE:HG12	1.79	0.82
4:B:1115:GLN:HG3	4:B:1116:LYS:N	1.93	0.82
6:E:42:PRO:HB2	6:E:277:ARG:HB2	1.61	0.82
6:E:329:ARG:NH1	8:G:289:PRO:HG3	1.93	0.82
9:X:98:VAL:CG1	9:X:100:LEU:HG	2.09	0.82
3:A:609:ARG:NH1	3:A:637:TYR:CD2	2.47	0.82
4:B:474:ALA:HB3	4:B:477:GLY:HA2	1.60	0.82
4:B:646:LEU:HD23	4:B:662:LYS:CA	2.09	0.82
5:C:101:VAL:CB	5:C:136:LEU:HD12	2.10	0.82
5:C:214:ALA:HB2	5:D:224:LEU:HD22	1.60	0.82
5:C:217:LEU:C	5:C:219:ASP:H	1.80	0.82
8:G:135:GLU:HG3	8:G:137:VAL:HG22	1.60	0.82
8:G:171:LYS:CG	8:G:174:MET:SD	2.67	0.82
9:X:42:GLU:CA	9:X:78:LEU:HB2	2.09	0.82
9:Y:161:GLY:HA2	9:Y:170:ILE:HA	1.60	0.82
1:1:88:DA:H8	1:1:88:DA:H5”	1.42	0.82
3:A:46:LEU:O	3:A:50:LEU:N	2.12	0.82
3:A:773:VAL:HB	3:A:799:VAL:CG1	2.10	0.82
4:B:22:THR:OG1	4:B:23:HIS:N	2.10	0.82
4:B:86:THR:O	4:B:89:GLU:HB2	1.79	0.82
4:B:510:LEU:O	4:B:875:GLN:NE2	2.13	0.82
6:E:104:GLY:O	6:E:251:VAL:HB	1.78	0.82
1:1:88:DA:N1	2:2:38:DT:C2	2.47	0.82
1:1:106:DG:H4’	8:G:171:LYS:HD2	0.83	0.82
2:2:35:DA:H2’	2:2:36:DT:C6	2.13	0.82
4:B:440:LYS:HA	4:B:1000:GLU:HA	1.61	0.82
5:C:101:VAL:CG1	5:C:136:LEU:HD12	2.08	0.82
6:E:188:ILE:HD11	6:E:300:ARG:CZ	2.09	0.82
4:B:93:LYS:CE	4:B:372:HIS:NE2	2.42	0.82
4:B:713:GLU:HA	4:B:718:VAL:HA	1.61	0.82
4:B:763:GLY:CA	4:B:801:GLN:HG3	2.10	0.82
4:B:795:LEU:N	4:B:795:LEU:HD12	1.94	0.82
4:B:1113:ALA:O	4:B:1116:LYS:N	2.11	0.82
4:B:1159:ASP:CB	4:B:1180:MET:HE1	2.07	0.82
8:G:338:ARG:HG2	8:G:343:LEU:CD2	2.08	0.82
9:Y:203:ILE:CA	9:Y:211:THR:O	2.26	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:86:DG:H2"	1:1:87:DA:OP2	1.78	0.82
3:A:597:ASP:OD2	3:A:662:ARG:HD2	1.79	0.82
3:A:1000:LEU:O	3:A:1003:GLN:NE2	2.12	0.82
4:B:922:ILE:HG12	4:B:936:GLU:O	1.80	0.82
5:C:92:SER:HB2	5:C:144:ARG:HE	1.43	0.82
6:E:514:VAL:HG23	6:E:515:LEU:N	1.93	0.82
8:G:242:ILE:CG2	8:G:266:MET:HE1	2.00	0.82
1:1:100:DA:N3	8:G:204:TYR:OH	2.11	0.82
1:1:108:DA:C4	1:1:109:DG:N1	2.48	0.82
3:A:467:GLU:HG3	3:A:472:ARG:NH1	1.94	0.82
4:B:443:LYS:O	4:B:996:LEU:HA	1.80	0.82
4:B:807:HIS:ND1	4:B:807:HIS:O	2.12	0.82
5:D:55:ALA:HA	5:D:165:GLN:HA	1.60	0.82
6:E:230:VAL:HG23	6:E:231:ILE:H	1.45	0.82
9:X:28:PHE:H	9:X:98:VAL:HB	1.44	0.82
9:Y:49:LYS:N	9:Y:99:GLU:O	2.11	0.82
3:A:520:THR:OG1	3:A:523:GLN:NE2	2.11	0.82
3:A:590:ILE:O	3:A:669:LEU:N	2.11	0.82
4:B:89:GLU:O	4:B:370:THR:HA	1.80	0.82
4:B:332:MET:SD	4:B:1007:ILE:HG12	2.19	0.82
4:B:464:THR:HB	4:B:469:ASN:HA	1.59	0.82
4:B:1000:GLU:OE1	4:B:1000:GLU:N	2.12	0.82
4:B:1151:LYS:HB2	4:B:1195:LEU:HD21	1.60	0.82
5:C:9:VAL:HG11	5:C:22:LYS:CB	2.07	0.82
5:C:99:LEU:O	5:C:138:MET:N	2.13	0.82
5:C:205:SER:HB3	5:C:208:GLU:OE1	1.80	0.82
5:D:217:LEU:C	5:D:219:ASP:H	1.80	0.82
9:X:108:VAL:HG22	9:X:122:MET:HE2	1.62	0.82
3:A:887:LEU:CD1	3:A:887:LEU:O	2.27	0.82
4:B:352:LYS:CD	4:B:358:LYS:HZ3	1.90	0.82
4:B:359:LEU:HB3	4:B:360:PRO:HD3	1.61	0.82
4:B:483:LEU:HD22	4:B:967:ARG:HD2	1.62	0.82
4:B:521:GLY:HA3	4:B:541:THR:HG22	1.62	0.82
4:B:1244:LEU:HD23	4:B:1244:LEU:H	1.44	0.82
6:E:216:ALA:HB1	6:E:219:GLN:HG3	0.92	0.82
3:A:112:GLN:HE22	3:A:362:ALA:HB2	1.43	0.81
3:A:596:GLY:N	3:A:662:ARG:NH2	2.27	0.81
4:B:91:PHE:HE1	4:B:156:ASP:CG	1.83	0.81
4:B:215:GLY:O	4:B:216:THR:CG2	2.28	0.81
4:B:237:THR:OG1	4:B:238:ARG:N	2.05	0.81
4:B:621:TYR:HD2	4:B:773:ARG:HA	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:646:LEU:HG	4:B:661:VAL:HA	1.62	0.81
4:B:761:GLN:OE1	4:B:766:ILE:N	2.10	0.81
4:B:925:GLY:N	4:B:934:ALA:O	2.13	0.81
4:B:1118:GLN:O	4:B:1121:LEU:N	2.12	0.81
4:B:1159:ASP:CA	4:B:1180:MET:SD	2.68	0.81
5:D:13:THR:HG22	5:D:19:HIS:CB	2.09	0.81
5:D:101:VAL:H	5:D:136:LEU:HB2	1.43	0.81
6:E:381:ILE:O	6:E:384:PHE:N	2.13	0.81
8:G:139:LEU:HD12	8:G:140:PRO:HD2	1.60	0.81
9:X:26:GLU:N	9:X:100:LEU:O	2.12	0.81
9:Y:26:GLU:N	9:Y:100:LEU:O	2.12	0.81
3:A:559:MET:N	3:A:559:MET:SD	2.40	0.81
3:A:609:ARG:NH1	3:A:637:TYR:N	2.27	0.81
3:A:734:GLU:N	3:A:735:GLU:OE2	2.13	0.81
4:B:58:VAL:HA	4:B:141:VAL:HG21	1.61	0.81
4:B:148:ALA:HA	4:B:154:ILE:HA	1.62	0.81
4:B:250:HIS:HE2	4:B:255:GLU:C	1.82	0.81
4:B:480:ILE:HD12	4:B:974:VAL:HG21	1.60	0.81
4:B:552:THR:OG1	4:B:563:LEU:CD1	2.26	0.81
4:B:629:LEU:HB3	4:B:744:PHE:HB2	1.60	0.81
5:D:99:LEU:O	5:D:138:MET:N	2.13	0.81
6:E:480:SER:HG	6:E:483:SER:H	1.27	0.81
8:G:219:THR:OG1	8:G:220:ARG:N	2.08	0.81
9:X:161:GLY:HA2	9:X:170:ILE:HA	1.60	0.81
9:Y:45:TYR:C	9:Y:100:LEU:HD11	2.01	0.81
9:Y:78:LEU:HD13	9:Y:88:ARG:CD	1.93	0.81
1:1:101:DT:H2'	1:1:102:DA:H5'	1.62	0.81
1:1:107:DG:C4	1:1:108:DA:C6	2.69	0.81
1:1:107:DG:C8	1:1:107:DG:H5'	2.15	0.81
3:A:285:VAL:HG12	3:A:289:VAL:HG11	1.62	0.81
3:A:402:LEU:C	3:A:402:LEU:HD12	1.99	0.81
3:A:510:VAL:HG11	3:A:519:THR:HG21	1.60	0.81
3:A:616:THR:O	3:A:619:GLY:C	2.19	0.81
3:A:769:LEU:N	3:A:804:LEU:O	2.14	0.81
4:B:18:SER:O	4:B:21:PHE:N	2.12	0.81
4:B:185:ASP:O	4:B:188:LEU:N	2.11	0.81
4:B:522:VAL:CG2	4:B:540:ILE:HB	2.10	0.81
6:E:254:PRO:HG2	6:E:255:ASP:N	1.95	0.81
6:E:256:LEU:HD12	6:E:256:LEU:N	1.94	0.81
6:E:481:LEU:HG	6:E:482:GLU:N	1.93	0.81
4:B:114:LYS:HD3	4:B:350:ARG:HE	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:606:PHE:HA	4:B:630:LEU:HG	1.61	0.81
4:B:611:VAL:CG2	4:B:623:VAL:HA	2.10	0.81
5:D:172:PRO:O	5:D:200:THR:OG1	1.98	0.81
8:G:111:LEU:O	8:G:114:GLU:HG3	1.80	0.81
8:G:258:THR:O	8:G:262:ILE:CG1	2.27	0.81
8:G:378:HIS:ND1	9:X:58:TYR:O	2.14	0.81
3:A:164:SER:C	3:A:165:LEU:HD22	2.00	0.81
3:A:181:ASP:OD2	3:A:218:TYR:HB3	1.80	0.81
3:A:423:HIS:O	3:A:425:SER:N	2.13	0.81
3:A:684:GLN:NE2	3:A:713:ILE:HG23	1.95	0.81
3:A:873:TYR:CA	3:A:879:PRO:HA	2.10	0.81
3:A:1087:HIS:NE2	6:E:11:TYR:OH	2.12	0.81
4:B:603:PHE:HB3	4:B:632:ILE:HD12	1.62	0.81
6:E:481:LEU:HD23	6:E:481:LEU:N	1.93	0.81
6:E:502:THR:O	6:E:504:ARG:N	2.12	0.81
8:G:116:VAL:O	8:G:119:ARG:N	2.12	0.81
8:G:326:LEU:O	8:G:328:SER:N	2.13	0.81
3:A:53:PHE:HE2	3:A:340:LEU:HB3	1.44	0.81
3:A:74:LEU:HD21	3:A:95:MET:HG3	0.82	0.81
3:A:968:PHE:CG	4:B:47:ALA:O	2.32	0.81
4:B:367:THR:O	4:B:371:ARG:N	2.13	0.81
5:C:220:LEU:HD12	5:C:220:LEU:H	1.45	0.81
6:E:594:ARG:CZ	6:E:603:SER:HB2	2.09	0.81
8:G:183:LEU:O	8:G:186:GLU:N	2.14	0.81
3:A:168:ASN:N	3:A:268:ASP:O	2.11	0.81
3:A:355:ASP:OD1	3:A:358:VAL:HG22	1.80	0.81
3:A:606:ILE:H	3:A:609:ARG:HH21	1.28	0.81
4:B:61:SER:N	4:B:108:GLU:OE2	2.13	0.81
4:B:286:LEU:HG	4:B:1142:GLU:OE2	1.81	0.81
4:B:352:LYS:O	4:B:353:MET:HG3	1.81	0.81
4:B:1051:VAL:HG12	4:B:1052:ILE:H	1.45	0.81
4:B:1177:ASN:HD22	4:B:1190:TYR:HE2	0.81	0.81
4:B:1202:LEU:HG	4:B:1203:ASN:N	1.96	0.81
5:D:100:LEU:HD23	5:D:137:GLU:HA	1.63	0.81
6:E:550:ILE:CD1	6:E:610:PRO:HB3	2.09	0.81
2:2:58:DA:H1'	2:2:59:DG:C8	2.16	0.81
4:B:93:LYS:N	4:B:95:ILE:HG22	1.96	0.81
4:B:189:ARG:NH2	4:B:328:THR:O	2.12	0.81
4:B:269:ALA:O	4:B:272:ILE:N	2.13	0.81
6:E:72:HIS:H	6:E:91:VAL:HG21	1.44	0.81
6:E:129:LEU:HD21	6:E:193:LEU:CD1	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:282:LEU:HD12	8:G:283:PRO:HD2	1.61	0.81
9:X:143:ARG:H	9:X:148:ARG:CD	1.94	0.81
1:1:85:DG:N1	2:2:41:DC:C4	2.46	0.81
3:A:215:HIS:CG	3:A:219:PHE:CE1	2.69	0.81
3:A:391:ASN:N	3:A:391:ASN:OD1	2.03	0.81
3:A:737:THR:OG1	3:A:739:GLU:N	2.14	0.81
3:A:784:GLU:HA	3:A:787:LEU:HD12	1.62	0.81
4:B:283:ARG:HG3	4:B:288:CYS:SG	2.21	0.81
4:B:449:LEU:HD21	4:B:482:ILE:HG21	1.61	0.81
5:D:58:ILE:HA	5:D:138:MET:SD	2.21	0.81
9:X:75:PHE:CZ	9:X:100:LEU:HD22	2.16	0.81
3:A:223:ILE:HB	3:A:224:GLU:OE1	1.79	0.81
3:A:1072:VAL:O	3:A:1075:ARG:N	2.13	0.81
4:B:93:LYS:HZ2	4:B:415:GLY:CA	1.93	0.81
4:B:100:GLY:HA3	4:B:421:GLY:HA3	1.62	0.81
4:B:207:VAL:CG1	4:B:293:SER:HA	2.07	0.81
4:B:597:ARG:HD2	4:B:788:VAL:CG1	2.04	0.81
4:B:1227:GLY:O	4:B:1229:SER:N	2.14	0.81
5:C:201:ASN:OD1	5:C:202:GLY:N	2.14	0.81
5:D:171:MET:SD	5:D:172:PRO:C	2.59	0.81
6:E:560:PHE:O	6:E:604:GLN:HG2	1.77	0.81
9:X:108:VAL:CG2	9:X:122:MET:HE2	2.10	0.81
2:2:61:DT:H72	9:Y:188:VAL:HG23	1.61	0.80
3:A:490:VAL:O	3:A:510:VAL:HG23	1.82	0.80
3:A:606:ILE:H	3:A:609:ARG:NH2	1.78	0.80
3:A:792:PHE:CE2	8:G:385:LEU:HD12	2.16	0.80
5:D:55:ALA:HB1	5:D:57:ARG:HH22	1.45	0.80
5:D:205:SER:HB3	5:D:208:GLU:OE1	1.80	0.80
7:F:30:ARG:O	7:F:30:ARG:NH1	2.14	0.80
8:G:83:ARG:HA	8:G:86:LEU:HB3	1.62	0.80
8:G:130:ASP:OD1	8:G:134:ALA:N	2.14	0.80
8:G:139:LEU:HD21	8:G:144:PHE:HA	1.60	0.80
8:G:194:ALA:O	8:G:196:GLU:N	2.14	0.80
1:1:116:DC:H42	2:2:9:DC:N4	1.79	0.80
3:A:100:ARG:CG	3:A:101:LEU:H	1.94	0.80
3:A:576:THR:HG23	3:A:578:LEU:H	1.46	0.80
3:A:616:THR:OG1	3:A:633:GLN:OE1	1.97	0.80
4:B:26:THR:O	4:B:28:ARG:N	2.13	0.80
4:B:36:LEU:HD12	4:B:37:LYS:N	1.95	0.80
4:B:72:GLU:HG2	4:B:418:VAL:HB	1.63	0.80
4:B:80:TYR:HD1	4:B:86:THR:HA	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:361:ARG:O	4:B:362:LYS:HB2	1.81	0.80
4:B:467:GLN:HE21	4:B:470:THR:N	1.77	0.80
4:B:916:VAL:HG12	4:B:917:LYS:H	1.47	0.80
5:C:13:THR:HG22	5:C:19:HIS:HB3	1.63	0.80
6:E:230:VAL:HG23	6:E:231:ILE:N	1.95	0.80
6:E:302:GLU:O	6:E:305:MET:N	2.14	0.80
6:E:570:ASP:OD2	6:E:589:LYS:N	2.13	0.80
1:1:106:DG:C4'	8:G:171:LYS:CD	2.40	0.80
3:A:686:ILE:HD11	3:A:882:ILE:HD11	1.63	0.80
4:B:283:ARG:CG	4:B:298:CYS:CB	2.43	0.80
4:B:379:VAL:HG13	4:B:380:GLU:H	1.46	0.80
4:B:511:ALA:O	4:B:875:GLN:HA	1.81	0.80
5:C:223:PRO:O	5:C:227:ILE:HD12	1.82	0.80
8:G:146:TYR:CZ	8:G:150:ILE:HD12	2.17	0.80
3:A:1039:THR:OG1	3:A:1040:VAL:N	2.12	0.80
4:B:442:VAL:HB	4:B:996:LEU:HB3	1.63	0.80
4:B:1077:VAL:HG11	4:B:1081:GLN:HB3	1.61	0.80
5:D:13:THR:HG22	5:D:19:HIS:HB3	1.62	0.80
6:E:220:LYS:HD2	6:E:223:LYS:HE3	1.62	0.80
9:X:180:ALA:HA	9:X:185:SER:HB3	1.63	0.80
2:2:61:DT:H73	9:Y:188:VAL:HG21	1.63	0.80
3:A:330:GLU:O	3:A:333:GLN:N	2.15	0.80
3:A:437:GLU:N	3:A:437:GLU:OE1	2.15	0.80
5:C:221:PHE:HA	5:C:224:LEU:HD22	1.63	0.80
6:E:510:SER:H	6:E:513:MET:HE2	1.44	0.80
9:Y:124:ARG:O	9:Y:127:SER:OG	1.99	0.80
3:A:391:ASN:HB2	3:A:392:PRO:HD2	1.62	0.80
4:B:80:TYR:CD1	4:B:86:THR:HA	2.17	0.80
4:B:189:ARG:HA	4:B:192:ASP:OD2	1.80	0.80
4:B:441:ALA:N	4:B:999:PHE:O	2.14	0.80
4:B:1125:VAL:O	4:B:1128:VAL:HG12	1.82	0.80
6:E:492:LEU:O	6:E:494:SER:N	2.15	0.80
6:E:598:GLN:O	6:E:602:ILE:CD1	2.29	0.80
9:Y:143:ARG:HA	9:Y:148:ARG:HH21	1.47	0.80
3:A:488:LEU:N	3:A:512:TYR:HE1	1.80	0.80
3:A:598:VAL:HA	3:A:608:VAL:HB	1.62	0.80
3:A:791:ILE:H	3:A:791:ILE:HD12	1.44	0.80
4:B:646:LEU:CB	4:B:662:LYS:H	1.95	0.80
4:B:797:LEU:HB2	4:B:832:LEU:HD11	1.63	0.80
5:D:73:GLU:OE2	5:D:129:THR:N	2.15	0.80
2:2:8:DC:H1'	2:2:9:DC:C5	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:174:LYS:CE	3:A:189:LYS:N	2.45	0.80
3:A:296:ASP:O	3:A:299:ALA:N	2.15	0.80
3:A:328:VAL:HG23	3:A:329:GLY:N	1.97	0.80
4:B:199:ARG:O	4:B:202:ASP:N	2.15	0.80
4:B:922:ILE:HG22	4:B:938:GLY:O	1.80	0.80
5:C:171:MET:SD	5:C:172:PRO:C	2.59	0.80
8:G:131:SER:H	8:G:134:ALA:N	1.80	0.80
1:1:87:DA:C2	2:2:39:DT:N3	2.50	0.80
3:A:735:GLU:C	3:A:772:LYS:CG	2.41	0.80
3:A:828:LEU:CD1	3:A:832:ALA:HB3	2.06	0.80
4:B:225:MET:O	4:B:232:LEU:N	2.13	0.80
4:B:250:HIS:CB	4:B:254:LYS:HZ3	1.90	0.80
4:B:358:LYS:HD3	4:B:412:ILE:CD1	2.08	0.80
4:B:565:THR:HG22	4:B:571:VAL:HG22	1.62	0.80
4:B:1040:TYR:HD2	4:B:1044:ASP:H	1.30	0.80
5:C:102:ASN:HA	5:C:130:ILE:CD1	2.11	0.80
9:X:47:LEU:HA	9:X:100:LEU:HA	1.64	0.80
9:Y:126:LEU:HD21	9:Y:130:ILE:HG13	1.64	0.80
3:A:29:ASP:OD1	3:A:32:GLU:N	2.15	0.80
3:A:257:LEU:O	3:A:260:ARG:N	2.15	0.80
3:A:599:VAL:HG22	3:A:615:PRO:CG	2.10	0.80
4:B:462:GLN:HA	4:B:472:THR:HG21	1.64	0.80
4:B:919:GLY:CA	4:B:940:ILE:O	2.30	0.80
4:B:1027:CYS:SG	4:B:1084:SER:HB2	2.22	0.80
5:C:55:ALA:HB1	5:C:57:ARG:HH22	1.45	0.80
6:E:598:GLN:O	6:E:602:ILE:HD11	1.81	0.80
3:A:610:VAL:HA	3:A:632:GLY:C	2.02	0.79
3:A:1090:GLU:HG3	3:A:1091:THR:H	1.47	0.79
4:B:208:ILE:HB	4:B:210:ARG:HE	1.47	0.79
4:B:250:HIS:H	4:B:250:HIS:CD2	1.98	0.79
5:C:58:ILE:HA	5:C:138:MET:SD	2.21	0.79
1:1:74:DT:O4	2:2:52:DA:N6	2.14	0.79
3:A:968:PHE:CZ	3:A:972:VAL:HG23	2.11	0.79
5:D:15:GLU:HB2	5:D:18:ASN:HD21	1.46	0.79
6:E:63:PHE:O	6:E:102:ARG:NH1	2.16	0.79
6:E:419:LEU:HD23	6:E:420:GLU:N	1.96	0.79
2:2:48:DT:H1'	2:2:49:DT:H5'	1.64	0.79
2:2:49:DT:H3'	9:X:176:HIS:CE1	2.17	0.79
3:A:103:ASN:HB2	3:A:105:GLU:OE1	1.83	0.79
3:A:581:GLN:O	3:A:584:ARG:N	2.15	0.79
3:A:707:ARG:HA	3:A:710:GLN:HB3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:741:PRO:HB2	3:A:742:ASN:OD1	1.83	0.79
3:A:762:TRP:CD1	3:A:763:VAL:N	2.50	0.79
4:B:460:PRO:HA	4:B:474:ALA:HA	1.64	0.79
4:B:552:THR:O	4:B:563:LEU:HG	1.82	0.79
5:C:62:SER:HG	5:C:63:HIS:CE1	2.01	0.79
5:D:201:ASN:OD1	5:D:202:GLY:N	2.14	0.79
9:X:99:GLU:OE2	9:X:100:LEU:N	2.14	0.79
3:A:970:ARG:HH22	4:B:120:ASN:CA	1.93	0.79
4:B:49:VAL:O	4:B:49:VAL:HG13	1.82	0.79
4:B:73:ILE:O	4:B:76:THR:HB	1.83	0.79
4:B:397:PRO:HB2	4:B:399:PRO:HD2	1.64	0.79
4:B:1079:ALA:C	4:B:1081:GLN:H	1.82	0.79
5:C:172:PRO:O	5:C:200:THR:OG1	1.98	0.79
5:C:200:THR:OG1	5:C:201:ASN:N	2.02	0.79
5:D:54:THR:O	5:D:166:ILE:HG22	1.83	0.79
6:E:184:VAL:HG12	6:E:185:GLU:N	1.98	0.79
6:E:202:LEU:CD1	6:E:235:ILE:HG23	2.13	0.79
9:X:47:LEU:CD1	9:X:52:VAL:HG21	2.12	0.79
3:A:599:VAL:HG23	3:A:607:ARG:O	1.83	0.79
3:A:606:ILE:O	3:A:608:VAL:HG22	1.80	0.79
4:B:147:MET:HG2	4:B:159:ILE:CD1	2.13	0.79
4:B:357:ILE:HG23	4:B:387:LEU:HD23	1.63	0.79
4:B:763:GLY:O	4:B:801:GLN:CG	2.31	0.79
6:E:359:ARG:O	6:E:360:SER:OG	1.99	0.79
6:E:533:LYS:CA	6:E:556:VAL:HG13	2.13	0.79
7:F:37:ASN:N	7:F:37:ASN:OD1	2.01	0.79
9:Y:216:VAL:HB	9:Y:220:ARG:HA	1.63	0.79
3:A:289:VAL:O	3:A:289:VAL:HG13	1.82	0.79
4:B:463:LYS:N	4:B:472:THR:HG21	1.97	0.79
5:C:54:THR:O	5:C:166:ILE:HG22	1.83	0.79
5:D:186:ASP:C	5:D:188:SER:N	2.32	0.79
6:E:154:GLU:HG3	6:E:155:THR:N	1.94	0.79
8:G:326:LEU:HD21	8:G:343:LEU:CD2	2.13	0.79
9:X:176:HIS:CA	9:X:179:ILE:HD12	2.12	0.79
9:X:213:HIS:C	9:X:214:LYS:HG3	2.03	0.79
1:1:116:DC:N4	2:2:9:DC:N4	2.31	0.79
3:A:451:ALA:HB1	3:A:459:LEU:HD12	1.63	0.79
5:C:79:ILE:C	5:C:82:MET:H	1.86	0.79
6:E:561:ASP:HA	6:E:604:GLN:HG2	1.63	0.79
8:G:110:LEU:CD1	8:G:152:ARG:N	2.45	0.79
8:G:350:THR:HG23	8:G:352:GLU:HB2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:30:ARG:HG3	9:X:97:PRO:HD3	1.63	0.79
3:A:184:TRP:CD2	3:A:193:LEU:CD1	2.66	0.79
3:A:704:ILE:HD12	3:A:708:LEU:HD22	1.65	0.79
3:A:720:GLU:O	3:A:839:TYR:HA	1.83	0.79
3:A:941:ASP:N	3:A:941:ASP:OD1	2.02	0.79
4:B:88:VAL:HG13	4:B:369:ARG:HA	1.63	0.79
4:B:352:LYS:CE	4:B:358:LYS:CE	2.58	0.79
4:B:757:SER:CB	4:B:768:MET:HG3	2.09	0.79
4:B:1037:LYS:CD	4:B:1052:ILE:CG2	2.53	0.79
6:E:401:ILE:O	6:E:404:ALA:N	2.15	0.79
6:E:402:LYS:NZ	8:G:390:ARG:NH2	2.31	0.79
6:E:509:PRO:HA	6:E:513:MET:CE	2.13	0.79
9:X:69:LEU:CG	9:X:70:ARG:H	1.95	0.79
2:2:8:DC:H1'	2:2:9:DC:C4	2.16	0.79
3:A:880:VAL:HG22	3:A:881:ASP:N	1.97	0.79
4:B:453:VAL:HG23	4:B:988:VAL:CG2	1.97	0.79
5:C:99:LEU:HD11	5:C:101:VAL:HG23	1.65	0.79
6:E:69:TRP:NE1	6:E:82:ARG:HG3	1.98	0.79
8:G:127:ASP:HB2	8:G:129:ARG:HD3	1.64	0.79
8:G:302:ILE:HG22	8:G:303:GLU:N	1.97	0.79
1:1:85:DG:C6	2:2:41:DC:N3	2.50	0.79
3:A:220:GLN:HB2	3:A:221:LYS:HD3	1.63	0.79
3:A:523:GLN:O	3:A:524:VAL:HG23	1.81	0.79
3:A:532:VAL:CG1	3:A:540:SER:HB2	2.12	0.79
3:A:597:ASP:O	3:A:615:PRO:HD3	1.83	0.79
4:B:374:GLU:HB2	4:B:416:GLN:HG2	1.65	0.79
4:B:681:LEU:HD13	4:B:683:GLU:H	1.46	0.79
4:B:800:GLU:HG2	4:B:801:GLN:N	1.98	0.79
4:B:1226:GLU:OE1	4:B:1226:GLU:N	2.16	0.79
5:C:92:SER:CB	5:C:144:ARG:HE	1.96	0.79
1:1:115:DA:H2	2:2:11:DT:C2	2.01	0.78
3:A:154:ASP:OD1	3:A:158:ARG:N	2.16	0.78
3:A:395:GLU:O	3:A:396:LEU:C	2.20	0.78
3:A:1053:ASN:O	3:A:1056:VAL:N	2.15	0.78
4:B:85:ILE:HD12	4:B:372:HIS:HB3	1.65	0.78
4:B:89:GLU:OE1	4:B:89:GLU:N	2.16	0.78
4:B:143:MET:HG3	4:B:160:LYS:C	2.02	0.78
4:B:203:VAL:HA	4:B:1201:SER:HB3	1.64	0.78
4:B:260:ARG:HG3	4:B:261:ASN:HD21	1.46	0.78
9:Y:205:ILE:HA	9:Y:209:LYS:O	1.83	0.78
1:1:84:DA:H1'	1:1:85:DG:O5'	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:121:DG:H1'	1:1:122:DC:H5'	1.65	0.78
3:A:64:GLU:N	3:A:103:ASN:HA	1.97	0.78
4:B:165:GLU:H	4:B:165:GLU:CD	1.82	0.78
4:B:361:ARG:N	4:B:392:GLU:H	1.80	0.78
5:C:105:THR:OG1	5:C:106:THR:N	2.17	0.78
5:C:108:THR:CG2	5:C:124:THR:H	1.96	0.78
5:C:149:ARG:NH1	5:C:170:PHE:HZ	1.80	0.78
9:Y:126:LEU:HA	9:Y:129:ARG:NH1	1.98	0.78
3:A:41:PHE:HA	3:A:45:GLY:HA3	1.64	0.78
3:A:589:VAL:CA	3:A:653:GLN:HE22	1.97	0.78
4:B:352:LYS:HE2	4:B:358:LYS:NZ	1.97	0.78
4:B:496:LEU:HA	4:B:511:ALA:CA	2.10	0.78
6:E:494:SER:O	6:E:496:ASN:N	2.15	0.78
9:X:47:LEU:HD23	9:X:69:LEU:CG	2.13	0.78
9:Y:69:LEU:CG	9:Y:70:ARG:H	1.95	0.78
3:A:344:GLU:O	3:A:347:ILE:N	2.17	0.78
8:G:194:ALA:O	8:G:197:LYS:N	2.16	0.78
9:Y:126:LEU:CD2	9:Y:130:ILE:HG13	2.14	0.78
3:A:263:ASP:O	3:A:266:ARG:N	2.16	0.78
3:A:609:ARG:HH22	3:A:637:TYR:HB2	1.48	0.78
3:A:729:THR:O	3:A:732:GLY:N	2.17	0.78
4:B:162:ASN:OD1	4:B:164:ARG:N	2.14	0.78
4:B:379:VAL:HG22	4:B:380:GLU:OE1	1.83	0.78
6:E:49:THR:OG1	6:E:50:LEU:N	2.14	0.78
6:E:98:VAL:HG11	6:E:102:ARG:NH2	1.98	0.78
6:E:509:PRO:HA	6:E:513:MET:HE3	1.65	0.78
9:Y:99:GLU:OE2	9:Y:100:LEU:N	2.14	0.78
1:1:73:DA:N1	2:2:53:DT:N3	2.13	0.78
3:A:396:LEU:O	3:A:398:HIS:N	2.16	0.78
4:B:631:TRP:NE1	4:B:633:PRO:HA	1.98	0.78
4:B:759:SER:H	4:B:761:GLN:HG2	1.48	0.78
4:B:848:ALA:HA	4:B:877:LEU:HD23	1.65	0.78
4:B:941:VAL:N	4:B:965:THR:O	2.14	0.78
5:C:77:GLU:HA	5:C:80:MET:CG	2.14	0.78
5:C:88:LYS:N	5:C:121:ILE:HD11	1.97	0.78
6:E:216:ALA:HA	6:E:219:GLN:HG2	1.64	0.78
8:G:287:GLU:HB2	8:G:297:ARG:CG	2.12	0.78
8:G:318:LEU:HD11	8:G:390:ARG:O	1.83	0.78
8:G:336:VAL:HG22	8:G:354:ILE:HD13	1.64	0.78
9:Y:54:LEU:CB	9:Y:67:ALA:HB3	2.13	0.78
1:1:102:DA:H1'	1:1:103:DA:H5'	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:596:GLY:C	3:A:615:PRO:HA	2.04	0.78
4:B:266:ASP:OD1	4:B:266:ASP:N	2.11	0.78
4:B:466:ARG:NH1	4:B:977:GLY:O	2.17	0.78
5:D:79:ILE:C	5:D:82:MET:H	1.86	0.78
6:E:498:LEU:N	6:E:498:LEU:HD23	1.99	0.78
9:Y:162:VAL:CG2	9:Y:171:ASP:HB2	2.12	0.78
1:1:80:DA:OP1	1:1:80:DA:H4'	1.82	0.78
2:2:50:DG:H2'	9:X:190:VAL:HG11	1.65	0.78
3:A:215:HIS:CD2	3:A:219:PHE:CD1	2.71	0.78
3:A:596:GLY:CA	3:A:662:ARG:NH2	2.46	0.78
3:A:735:GLU:CA	3:A:772:LYS:CG	2.61	0.78
4:B:29:THR:O	4:B:32:MET:N	2.17	0.78
4:B:45:THR:O	4:B:48:GLY:N	2.16	0.78
4:B:441:ALA:HB2	4:B:1001:ARG:HH22	1.47	0.78
4:B:522:VAL:HA	4:B:863:ASP:H	1.47	0.78
4:B:630:LEU:HD22	4:B:722:LEU:HD11	1.65	0.78
5:D:101:VAL:HB	5:D:136:LEU:HD22	1.65	0.78
6:E:42:PRO:HB3	6:E:280:ILE:HB	1.66	0.78
6:E:332:LYS:NZ	8:G:297:ARG:NH2	2.32	0.78
9:Y:78:LEU:HD11	9:Y:88:ARG:NH1	1.96	0.78
3:A:374:ILE:O	3:A:376:GLU:N	2.17	0.78
4:B:79:ARG:HB2	4:B:85:ILE:HD13	1.65	0.78
4:B:198:ARG:HH22	6:E:346:ARG:NH1	1.80	0.78
3:A:74:LEU:HD22	3:A:95:MET:CA	2.03	0.78
3:A:340:LEU:O	3:A:343:LEU:N	2.17	0.78
3:A:349:GLU:O	3:A:352:THR:N	2.16	0.78
3:A:573:LEU:HD23	3:A:685:ASN:HD22	1.46	0.78
4:B:1159:ASP:C	4:B:1180:MET:CE	2.53	0.78
5:C:108:THR:CG2	5:C:124:THR:HA	2.14	0.78
1:1:112:DG:H3'	3:A:414:ARG:CZ	2.14	0.77
3:A:396:LEU:O	3:A:399:LYS:N	2.17	0.77
3:A:815:VAL:HG12	3:A:816:ASP:OD1	1.83	0.77
4:B:149:ASP:HB2	4:B:150:PRO:HD2	1.66	0.77
4:B:170:THR:OG1	4:B:171:GLU:OE1	2.02	0.77
4:B:267:ASP:CG	4:B:268:LEU:H	1.87	0.77
4:B:726:GLN:HG2	4:B:728:VAL:O	1.84	0.77
4:B:916:VAL:H	4:B:943:VAL:CG1	1.95	0.77
5:D:47:ASN:C	5:D:48:LEU:HG	2.01	0.77
6:E:325:GLY:H	6:E:331:LEU:HD11	1.49	0.77
8:G:314:SER:OG	8:G:315:LYS:N	2.07	0.77
8:G:377:ARG:HA	8:G:382:ASN:HB3	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:35:PHE:HB2	9:X:39:ASP:OD2	1.83	0.77
9:X:78:LEU:CD2	9:X:88:ARG:HD3	2.13	0.77
1:1:58:DA:H2	2:2:68:DT:C2	2.01	0.77
3:A:184:TRP:CG	3:A:193:LEU:HD11	2.19	0.77
3:A:188:ASP:O	3:A:189:LYS:HG2	1.83	0.77
4:B:10:LYS:NZ	4:B:14:ARG:NH2	2.32	0.77
4:B:197:THR:OG1	4:B:198:ARG:N	2.03	0.77
4:B:381:SER:OG	4:B:429:LEU:O	2.01	0.77
4:B:929:ALA:HB3	4:B:932:ILE:HB	1.64	0.77
6:E:146:VAL:HG22	6:E:187:GLY:HA3	1.66	0.77
6:E:227:ARG:O	6:E:231:ILE:HG13	1.84	0.77
9:Y:28:PHE:H	9:Y:98:VAL:HB	1.48	0.77
3:A:162:SER:OG	3:A:163:ALA:N	2.16	0.77
3:A:333:GLN:O	3:A:336:VAL:N	2.15	0.77
3:A:592:SER:N	3:A:667:GLN:O	2.18	0.77
4:B:186:THR:O	4:B:188:LEU:N	2.17	0.77
4:B:453:VAL:CG1	4:B:455:PHE:CE1	2.67	0.77
4:B:646:LEU:HB3	4:B:648:VAL:HG13	1.66	0.77
5:C:149:ARG:NH1	5:C:170:PHE:CZ	2.51	0.77
6:E:257:ARG:HA	6:E:272:LEU:HD12	1.64	0.77
9:Y:53:LYS:HE2	9:Y:68:LEU:HD22	1.64	0.77
1:1:77:DA:H1'	1:1:78:DA:C8	2.20	0.77
4:B:266:ASP:OD1	4:B:267:ASP:N	2.17	0.77
4:B:352:LYS:HD3	4:B:358:LYS:HZ3	1.47	0.77
4:B:848:ALA:HB1	4:B:879:LYS:HG2	1.65	0.77
4:B:1173:VAL:HG22	4:B:1190:TYR:CE1	2.20	0.77
5:C:130:ILE:CG2	5:C:136:LEU:HD11	2.14	0.77
6:E:98:VAL:CG1	6:E:102:ARG:NH2	2.48	0.77
6:E:328:ASN:O	6:E:329:ARG:HG3	1.84	0.77
8:G:187:GLY:O	8:G:190:GLY:N	2.18	0.77
8:G:216:GLN:OE1	8:G:217:ALA:N	2.17	0.77
9:X:130:ILE:HG13	9:Y:130:ILE:HD12	1.64	0.77
9:X:144:ASP:C	9:X:148:ARG:HE	1.87	0.77
3:A:576:THR:O	3:A:578:LEU:N	2.16	0.77
4:B:66:LEU:HD11	4:B:143:MET:CE	2.15	0.77
4:B:378:PHE:CD1	4:B:413:VAL:CG1	2.68	0.77
4:B:1151:LYS:HB2	4:B:1195:LEU:CD2	2.14	0.77
9:X:43:ARG:HE	9:X:44:VAL:HB	1.47	0.77
3:A:96:TYR:HA	3:A:115:PHE:CA	2.14	0.77
3:A:270:GLY:C	3:A:290:ARG:HH22	1.88	0.77
4:B:99:ASN:OD1	4:B:424:LEU:N	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:885:ARG:H	4:B:898:LEU:HB2	1.49	0.77
6:E:46:ASN:HD22	6:E:49:THR:HG22	1.50	0.77
3:A:161:TYR:HE2	3:A:308:GLU:HA	1.49	0.77
3:A:347:ILE:O	3:A:351:MET:HG3	1.84	0.77
3:A:737:THR:OG1	3:A:739:GLU:O	2.02	0.77
3:A:1033:THR:O	3:A:1034:LEU:C	2.23	0.77
4:B:553:VAL:HG21	4:B:562:TYR:CE2	2.20	0.77
4:B:583:GLN:HG3	4:B:584:ASN:N	1.99	0.77
4:B:763:GLY:O	4:B:801:GLN:HG3	1.84	0.77
4:B:1029:LEU:HB3	4:B:1083:LEU:HD22	1.67	0.77
5:C:97:GLY:HA3	5:C:114:LEU:HA	1.65	0.77
5:C:214:ALA:HB2	5:D:224:LEU:HD23	1.66	0.77
3:A:215:HIS:NE2	3:A:219:PHE:CE1	2.42	0.77
3:A:220:GLN:O	3:A:221:LYS:HD2	1.84	0.77
3:A:596:GLY:H	3:A:662:ARG:NH2	1.82	0.77
3:A:1052:LEU:C	3:A:1052:LEU:HD23	2.04	0.77
4:B:208:ILE:HG13	4:B:314:ALA:HA	1.65	0.77
4:B:411:TYR:O	4:B:413:VAL:HG23	1.85	0.77
4:B:854:GLN:H	4:B:875:GLN:H	1.29	0.77
5:C:130:ILE:CD1	5:C:136:LEU:HG	2.10	0.77
5:D:77:GLU:HA	5:D:80:MET:CG	2.14	0.77
6:E:95:GLU:HG2	6:E:96:SER:N	1.98	0.77
6:E:224:LEU:O	6:E:227:ARG:N	2.17	0.77
6:E:541:VAL:HG13	6:E:542:ILE:N	1.99	0.77
1:1:119:DA:C4	2:2:6:DA:C6	2.73	0.77
3:A:328:VAL:O	3:A:331:LEU:N	2.18	0.77
4:B:101:THR:N	4:B:420:LYS:O	2.17	0.77
4:B:546:LEU:HB2	4:B:830:LEU:N	1.99	0.77
6:E:321:ARG:NE	6:E:321:ARG:CA	2.47	0.77
8:G:356:GLN:CA	8:G:360:VAL:HA	2.12	0.77
9:Y:78:LEU:HG	9:Y:88:ARG:HH11	1.48	0.77
1:1:60:DT:H1'	1:1:61:DT:C6	2.20	0.77
1:1:117:DG:H4'	1:1:118:DG:OP1	1.84	0.77
3:A:198:LEU:HD23	3:A:208:GLU:CB	2.15	0.77
3:A:520:THR:O	3:A:523:GLN:NE2	2.18	0.77
4:B:92:GLN:HB2	4:B:369:ARG:O	1.84	0.77
4:B:93:LYS:HE2	4:B:372:HIS:CE1	2.20	0.77
4:B:600:THR:HA	4:B:785:VAL:O	1.84	0.77
4:B:927:GLU:HA	4:B:933:PHE:CE1	2.20	0.77
6:E:582:GLY:HA3	6:E:598:GLN:HB2	1.67	0.77
7:F:31:ILE:O	7:F:32:THR:C	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:37:ASN:OD1	7:F:38:ARG:N	2.18	0.77
9:X:56:ARG:NH1	9:X:90:TYR:CD2	2.52	0.77
9:X:148:ARG:HH22	9:Y:143:ARG:HE	1.33	0.77
3:A:48:GLU:OE1	3:A:48:GLU:N	2.18	0.76
4:B:103:GLU:HB3	4:B:354:ASP:HB2	1.68	0.76
4:B:176:SER:O	4:B:179:ALA:N	2.18	0.76
4:B:453:VAL:CG1	4:B:455:PHE:HE1	1.98	0.76
4:B:1090:PRO:HA	4:B:1093:ILE:HG12	1.66	0.76
6:E:431:ASN:HB2	6:E:441:ILE:HD12	1.66	0.76
8:G:249:LEU:HD22	8:G:265:ARG:HH11	1.50	0.76
2:2:41:DC:H4'	2:2:42:DT:H5'	1.65	0.76
3:A:253:GLY:O	3:A:256:LEU:HB3	1.84	0.76
3:A:549:ASP:OD1	3:A:550:ALA:N	2.17	0.76
3:A:610:VAL:HB	3:A:636:ARG:HB2	1.67	0.76
3:A:624:ASN:HB2	3:A:627:LEU:HB3	1.66	0.76
3:A:887:LEU:CD1	4:B:131:ARG:NH1	2.47	0.76
3:A:1054:ALA:CA	3:A:1059:LYS:NZ	2.48	0.76
4:B:125:MET:CG	6:E:515:LEU:HD22	2.09	0.76
4:B:141:VAL:O	4:B:162:ASN:ND2	2.18	0.76
4:B:252:LYS:NZ	4:B:255:GLU:HA	1.98	0.76
4:B:271:GLU:CG	4:B:272:ILE:N	2.46	0.76
4:B:539:ILE:HD12	4:B:764:ARG:NH2	2.01	0.76
3:A:344:GLU:OE2	3:A:348:ARG:HB2	1.84	0.76
3:A:586:SER:OG	3:A:588:MET:N	2.17	0.76
4:B:32:MET:O	4:B:35:LYS:N	2.19	0.76
4:B:100:GLY:HA3	4:B:421:GLY:CA	2.15	0.76
4:B:659:GLU:OE1	4:B:661:VAL:HG13	1.84	0.76
4:B:1160:THR:N	4:B:1180:MET:CE	2.47	0.76
6:E:304:ARG:O	6:E:307:GLN:HB3	1.86	0.76
9:X:114:GLU:HB2	9:X:118:LEU:HD12	1.68	0.76
3:A:107:GLY:N	4:B:557:GLN:HB3	2.00	0.76
4:B:171:GLU:O	4:B:174:ILE:N	2.18	0.76
4:B:304:ALA:HB1	6:E:438:ARG:NH2	1.99	0.76
4:B:352:LYS:CE	4:B:358:LYS:NZ	2.47	0.76
4:B:1109:CYS:SG	4:B:1110:ALA:N	2.57	0.76
6:E:498:LEU:HD12	6:E:503:GLY:O	1.85	0.76
8:G:77:TYR:CD1	8:G:78:THR:HG23	2.21	0.76
8:G:326:LEU:CD2	8:G:343:LEU:HD21	2.16	0.76
1:1:120:DT:C4	1:1:121:DG:C6	2.74	0.76
3:A:136:VAL:HG22	3:A:137:ILE:N	2.01	0.76
4:B:279:GLU:OE1	4:B:279:GLU:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:794:GLN:C	4:B:795:LEU:HD12	2.06	0.76
4:B:1050:LYS:CB	4:B:1061:TYR:HA	2.16	0.76
5:D:25:LEU:HD13	5:D:194:LEU:HB3	1.66	0.76
6:E:590:TYR:HD1	6:E:607:TYR:HB3	1.50	0.76
8:G:258:THR:O	8:G:262:ILE:HG13	1.84	0.76
3:A:57:THR:OG1	3:A:64:GLU:HA	1.84	0.76
3:A:383:LEU:N	3:A:383:LEU:HD12	1.99	0.76
4:B:445:VAL:O	4:B:994:LEU:HB2	1.85	0.76
4:B:852:SER:O	4:B:876:ILE:HG22	1.86	0.76
4:B:1222:GLU:O	4:B:1223:ALA:C	2.24	0.76
5:C:28:LEU:HB2	5:C:192:ASP:HB2	1.68	0.76
5:C:147:GLY:HA2	5:C:170:PHE:HB2	1.66	0.76
5:D:77:GLU:OE2	5:D:78:ILE:HG13	1.85	0.76
6:E:62:ILE:HG13	6:E:63:PHE:CD1	2.20	0.76
6:E:332:LYS:HZ2	8:G:297:ARG:HH22	1.30	0.76
6:E:533:LYS:HB2	6:E:556:VAL:HG11	1.65	0.76
3:A:29:ASP:OD1	3:A:31:ILE:N	2.17	0.76
3:A:122:MET:HG2	3:A:123:THR:H	1.51	0.76
3:A:806:VAL:HG12	3:A:807:PRO:O	1.85	0.76
3:A:893:MET:HE3	4:B:163:PHE:CD2	2.21	0.76
4:B:173:ILE:O	4:B:176:SER:N	2.19	0.76
4:B:260:ARG:O	4:B:262:THR:OG1	2.04	0.76
4:B:301:TRP:HA	4:B:308:MET:HA	1.68	0.76
4:B:361:ARG:CA	4:B:391:LYS:HB2	2.15	0.76
4:B:1232:LEU:HD11	6:E:12:VAL:HG13	1.66	0.76
5:C:107:ILE:HD11	5:C:136:LEU:CD1	2.16	0.76
5:C:151:VAL:HG23	5:C:167:ASP:CB	2.11	0.76
9:Y:35:PHE:CE2	9:Y:88:ARG:NE	2.53	0.76
9:Y:47:LEU:HD21	9:Y:52:VAL:HB	1.68	0.76
3:A:151:SER:HB2	3:A:160:THR:O	1.86	0.76
3:A:215:HIS:ND1	3:A:309:TYR:CD2	2.50	0.76
3:A:307:LEU:C	3:A:310:ASP:H	1.87	0.76
3:A:1076:GLU:H	3:A:1076:GLU:CD	1.89	0.76
4:B:360:PRO:HA	4:B:390:ARG:CB	2.16	0.76
4:B:384:ILE:CG2	4:B:394:SER:N	2.41	0.76
4:B:479:LEU:HG	4:B:973:ARG:CG	2.15	0.76
4:B:519:HIS:O	4:B:865:ILE:N	2.19	0.76
4:B:521:GLY:CA	4:B:760:GLN:HB3	2.14	0.76
4:B:698:GLU:N	4:B:698:GLU:OE1	2.18	0.76
6:E:594:ARG:HG3	6:E:603:SER:HB2	1.66	0.76
3:A:792:PHE:CZ	8:G:385:LEU:HD12	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:71:GLU:HA	4:B:74:ARG:HH11	1.51	0.76
4:B:273:GLU:O	4:B:276:GLY:N	2.17	0.76
4:B:646:LEU:HD23	4:B:662:LYS:HA	1.68	0.76
5:C:207:GLN:H	5:C:207:GLN:CD	1.89	0.76
5:D:83:LYS:HZ1	5:D:168:SER:HA	1.50	0.76
5:D:207:GLN:CD	5:D:207:GLN:H	1.89	0.76
9:X:111:ALA:O	9:X:118:LEU:HD13	1.86	0.76
1:1:76:DC:O2	2:2:50:DG:N2	2.14	0.76
3:A:101:LEU:HA	3:A:109:ILE:HA	1.66	0.76
4:B:242:ARG:H	4:B:264:ILE:HG22	1.49	0.76
4:B:347:GLN:HG2	4:B:411:TYR:CE2	2.15	0.76
4:B:463:LYS:HG3	4:B:467:GLN:OE1	1.85	0.76
4:B:543:SER:HA	4:B:831:GLN:HG3	1.67	0.76
6:E:481:LEU:O	6:E:484:GLN:N	2.19	0.76
8:G:324:LYS:O	8:G:327:ASP:N	2.19	0.76
9:X:32:LYS:HB2	9:X:94:ALA:HB3	1.67	0.76
9:X:57:VAL:HA	9:X:63:GLU:HG3	1.68	0.76
9:Y:48:LEU:HD11	9:Y:101:LEU:HB2	1.68	0.76
1:1:95:DT:C2	1:1:96:DC:C5	2.74	0.75
2:2:28:DC:H5	8:G:237:GLU:HG3	1.49	0.75
3:A:274:ARG:O	3:A:278:ASN:ND2	2.19	0.75
3:A:926:GLU:OE2	3:A:928:SER:OG	2.02	0.75
4:B:37:LYS:O	4:B:40:GLY:N	2.19	0.75
4:B:521:GLY:H	4:B:865:ILE:H	1.34	0.75
4:B:746:VAL:HG11	4:B:791:LEU:HD22	1.68	0.75
4:B:817:GLU:OE1	4:B:831:GLN:N	2.20	0.75
5:C:159:THR:HG22	5:C:163:PHE:HB3	1.68	0.75
6:E:530:GLY:HA3	6:E:550:ILE:CA	2.14	0.75
8:G:350:THR:OG1	8:G:352:GLU:OE1	2.03	0.75
9:X:36:PHE:N	9:X:39:ASP:OD2	2.16	0.75
9:Y:213:HIS:C	9:Y:214:LYS:HG3	2.03	0.75
3:A:192:LYS:HG2	3:A:193:LEU:H	1.49	0.75
3:A:276:LYS:O	3:A:279:LYS:N	2.19	0.75
3:A:674:SER:O	3:A:674:SER:OG	1.87	0.75
3:A:1032:TYR:O	3:A:1035:GLN:N	2.19	0.75
4:B:98:TRP:O	4:B:101:THR:OG1	2.02	0.75
5:C:77:GLU:OE2	5:C:78:ILE:HG13	1.85	0.75
6:E:145:TYR:HD2	6:E:186:VAL:HB	1.51	0.75
1:1:87:DA:H2"	1:1:88:DA:H5"	1.68	0.75
1:1:106:DG:H4'	8:G:171:LYS:HD3	1.64	0.75
3:A:63:LEU:HD12	3:A:103:ASN:CB	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:92:ALA:HA	3:A:120:PRO:HA	1.66	0.75
3:A:597:ASP:OD1	3:A:662:ARG:CZ	2.34	0.75
3:A:620:LYS:NZ	3:A:630:GLN:O	2.14	0.75
4:B:325:GLU:O	4:B:327:GLY:N	2.20	0.75
4:B:491:PRO:HG2	4:B:494:ALA:HB2	1.66	0.75
4:B:692:LEU:HD13	4:B:737:LEU:HA	1.69	0.75
5:C:32:GLN:CD	5:D:220:LEU:CD2	2.54	0.75
5:D:59:ALA:HB3	5:D:137:GLU:HG2	1.66	0.75
5:D:105:THR:OG1	5:D:106:THR:N	2.17	0.75
8:G:232:PRO:HB3	8:G:234:HIS:HE1	1.50	0.75
9:X:176:HIS:O	9:X:189:THR:CG2	2.34	0.75
9:Y:34:ILE:CG2	9:Y:45:TYR:CD1	2.69	0.75
3:A:66:HIS:CD2	3:A:100:ARG:HB3	2.21	0.75
3:A:559:MET:O	3:A:562:GLN:N	2.16	0.75
3:A:986:VAL:HG21	6:E:452:ARG:HB2	1.69	0.75
3:A:1070:PHE:O	3:A:1073:LEU:N	2.19	0.75
6:E:365:GLY:HA3	6:E:455:GLN:HB3	1.69	0.75
8:G:85:TYR:O	8:G:88:GLU:HG3	1.86	0.75
9:X:35:PHE:O	9:X:92:ALA:N	2.15	0.75
1:1:94:DT:OP1	6:E:47:TYR:OH	1.95	0.75
2:2:5:DC:H1'	2:2:6:DA:N7	2.01	0.75
3:A:535:VAL:CG2	3:A:540:SER:CB	2.58	0.75
3:A:540:SER:OG	3:A:541:MET:CE	2.34	0.75
3:A:810:GLU:OE1	3:A:810:GLU:N	2.20	0.75
4:B:1180:MET:HB2	4:B:1187:ARG:HH22	1.51	0.75
4:B:1215:GLU:HB3	4:B:1219:VAL:H	1.51	0.75
5:C:143:GLU:OE1	5:C:143:GLU:N	2.19	0.75
8:G:88:GLU:O	8:G:91:ARG:N	2.19	0.75
1:1:69:DA:H1'	1:1:70:DC:H5'	1.69	0.75
3:A:79:TYR:HB3	3:A:83:GLU:HB2	1.69	0.75
3:A:179:ARG:NE	3:A:179:ARG:HA	2.01	0.75
3:A:599:VAL:O	3:A:659:ILE:HG23	1.86	0.75
3:A:751:LEU:HD21	3:A:768:ILE:HB	1.67	0.75
4:B:453:VAL:HG22	4:B:482:ILE:HD12	1.69	0.75
4:B:528:ALA:O	4:B:535:ARG:NH2	2.19	0.75
4:B:537:ILE:H	4:B:838:LEU:N	1.84	0.75
4:B:831:GLN:HB3	4:B:833:VAL:HG22	1.68	0.75
5:D:99:LEU:HD13	5:D:112:PHE:HA	1.68	0.75
6:E:594:ARG:NH2	6:E:602:ILE:HG22	2.00	0.75
1:1:86:DG:H2'	1:1:86:DG:OP2	1.85	0.75
3:A:417:PHE:O	3:A:419:VAL:N	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:192:ASP:O	4:B:195:TYR:HB3	1.86	0.75
4:B:277:VAL:HG12	4:B:278:ALA:N	2.01	0.75
4:B:495:GLU:HB2	4:B:513:THR:HA	1.68	0.75
4:B:714:LEU:CD1	4:B:736:LEU:CD2	2.60	0.75
6:E:216:ALA:HB1	6:E:219:GLN:HB2	1.66	0.75
8:G:378:HIS:CG	9:X:57:VAL:HG23	1.97	0.75
3:A:417:PHE:C	3:A:419:VAL:H	1.88	0.75
4:B:910:ILE:HD12	4:B:943:VAL:HG21	1.69	0.75
4:B:1040:TYR:HB3	4:B:1048:ALA:C	2.07	0.75
4:B:1083:LEU:H	4:B:1083:LEU:HD12	1.51	0.75
5:C:216:ILE:O	5:C:219:ASP:CB	2.35	0.75
5:D:112:PHE:HE2	5:D:127:VAL:HG21	1.51	0.75
8:G:249:LEU:CD2	8:G:265:ARG:HH11	1.99	0.75
3:A:182:LEU:HD11	3:A:222:THR:HB	1.67	0.75
3:A:196:GLN:OE1	3:A:229:PHE:CD2	2.39	0.75
3:A:285:VAL:HG12	3:A:285:VAL:O	1.84	0.75
3:A:397:THR:OG1	3:A:397:THR:O	2.03	0.75
3:A:464:ARG:HB2	3:A:527:VAL:CG1	2.17	0.75
3:A:1028:PHE:HE1	6:E:438:ARG:CG	1.98	0.75
4:B:473:THR:HB	4:B:977:GLY:H	1.51	0.75
4:B:546:LEU:H	4:B:830:LEU:H	1.35	0.75
4:B:981:GLN:HB3	4:B:982:ILE:HD12	1.68	0.75
4:B:1078:PRO:O	4:B:1100:LEU:CD1	2.35	0.75
4:B:1089:ASN:HB3	4:B:1091:HIS:CD2	2.20	0.75
5:C:12:ASN:HD21	5:C:20:TYR:HB3	1.52	0.75
4:B:143:MET:CG	4:B:160:LYS:O	2.32	0.74
4:B:545:VAL:HA	4:B:829:ARG:HD3	1.69	0.74
4:B:574:LEU:HB3	4:B:577:THR:HG22	1.68	0.74
4:B:939:GLN:HE22	4:B:941:VAL:HG23	1.50	0.74
8:G:329:LEU:O	8:G:329:LEU:CD1	2.30	0.74
1:1:77:DA:C2	2:2:50:DG:C2	2.75	0.74
1:1:86:DG:C2	1:1:87:DA:C4	2.75	0.74
2:2:40:DC:H2"	2:2:41:DC:H2'	1.68	0.74
3:A:109:ILE:HD12	3:A:111:GLU:HB3	1.69	0.74
4:B:982:ILE:HD13	4:B:994:LEU:HD23	1.69	0.74
6:E:321:ARG:HA	6:E:321:ARG:CZ	2.17	0.74
1:1:73:DA:H2"	1:1:74:DT:H71	1.68	0.74
2:2:34:DA:C6	2:2:35:DA:C6	2.75	0.74
4:B:359:LEU:HB2	4:B:392:GLU:HA	1.69	0.74
4:B:707:LEU:CB	4:B:724:TYR:HA	2.16	0.74
4:B:1226:GLU:HG3	6:E:233:ASN:HD21	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:104:PRO:HA	5:C:131:ALA:HA	1.68	0.74
5:D:46:SER:OG	5:D:47:ASN:N	2.20	0.74
5:D:216:ILE:O	5:D:219:ASP:CB	2.35	0.74
8:G:178:LEU:HG	8:G:222:ILE:HG22	1.68	0.74
8:G:188:SER:O	8:G:191:LEU:N	2.20	0.74
1:1:119:DA:C2	2:2:7:DT:C2	2.74	0.74
3:A:174:LYS:HB2	3:A:186:ARG:HB2	1.70	0.74
3:A:251:LEU:O	3:A:254:GLN:N	2.19	0.74
4:B:147:MET:CG	4:B:159:ILE:CD1	2.65	0.74
4:B:190:THR:CG2	4:B:191:ALA:H	2.00	0.74
4:B:602:GLY:CA	4:B:634:GLU:HG2	2.18	0.74
4:B:626:GLY:N	4:B:746:VAL:O	2.20	0.74
4:B:1116:LYS:O	4:B:1119:THR:OG1	2.03	0.74
5:C:208:GLU:HG2	5:C:209:ALA:N	2.01	0.74
9:X:51:ALA:HB2	9:X:160:PHE:CE2	2.22	0.74
9:Y:54:LEU:HD12	9:Y:92:ALA:HA	1.67	0.74
9:Y:77:VAL:HA	9:Y:80:LEU:HD21	1.69	0.74
2:2:32:DA:C2	2:2:33:DA:C4	2.75	0.74
3:A:215:HIS:HB3	3:A:218:TYR:HA	1.70	0.74
3:A:588:MET:O	3:A:653:GLN:NE2	2.20	0.74
4:B:16:LEU:HD23	4:B:16:LEU:C	2.07	0.74
5:C:13:THR:CG2	5:C:206:PRO:HG2	2.17	0.74
5:C:102:ASN:CA	5:C:130:ILE:HD13	2.17	0.74
5:D:208:GLU:HG2	5:D:209:ALA:N	2.01	0.74
6:E:131:MET:CB	6:E:136:VAL:CG2	2.65	0.74
6:E:527:ALA:HB1	6:E:554:ALA:HA	1.70	0.74
9:Y:48:LEU:HB2	9:Y:99:GLU:HG3	1.70	0.74
9:Y:170:ILE:HG22	9:Y:171:ASP:N	2.01	0.74
3:A:685:ASN:OD1	3:A:685:ASN:O	2.06	0.74
3:A:704:ILE:CG2	3:A:708:LEU:CD2	2.65	0.74
3:A:704:ILE:HG21	3:A:708:LEU:CD2	2.18	0.74
4:B:237:THR:O	4:B:239:LEU:N	2.20	0.74
4:B:631:TRP:HD1	4:B:633:PRO:CD	2.01	0.74
4:B:678:ASN:C	4:B:680:ILE:H	1.90	0.74
5:C:68:VAL:HG23	5:C:69:PRO:HD2	1.70	0.74
6:E:480:SER:OG	6:E:482:GLU:N	2.20	0.74
3:A:1087:HIS:CE1	6:E:11:TYR:CE1	2.75	0.74
4:B:142:GLY:O	4:B:162:ASN:HB3	1.87	0.74
4:B:250:HIS:CE1	4:B:252:LYS:HD2	2.21	0.74
4:B:840:LEU:HD11	4:B:843:ASP:OD1	1.86	0.74
4:B:1041:GLY:HA3	4:B:1050:LYS:HG2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:76:TYR:CE2	6:E:81:HIS:CD2	2.76	0.74
8:G:259:GLU:HB3	8:G:270:ILE:HD12	1.69	0.74
9:X:142:HIS:O	9:X:143:ARG:HG3	1.87	0.74
9:Y:203:ILE:HG22	9:Y:212:VAL:CA	2.17	0.74
1:1:77:DA:C6	2:2:50:DG:C6	2.75	0.74
2:2:42:DT:H2"	2:2:43:DG:N7	2.03	0.74
3:A:198:LEU:CD2	3:A:208:GLU:HB3	2.17	0.74
3:A:641:LYS:O	3:A:643:GLN:NE2	2.20	0.74
3:A:1075:ARG:NH1	3:A:1078:GLN:OE1	2.21	0.74
4:B:347:GLN:CG	4:B:411:TYR:HE2	2.00	0.74
4:B:463:LYS:NZ	4:B:467:GLN:N	2.24	0.74
4:B:1011:LEU:N	4:B:1012:PRO:HD2	2.02	0.74
6:E:350:LEU:H	6:E:350:LEU:HD12	1.53	0.74
6:E:538:LEU:C	6:E:540:ASP:N	2.37	0.74
9:X:98:VAL:CG1	9:X:100:LEU:HD12	2.18	0.74
9:Y:214:LYS:HB3	9:Y:217:THR:H	1.50	0.74
1:1:72:DT:C7	9:X:187:ARG:NH1	2.51	0.74
3:A:81:VAL:HG23	3:A:82:GLU:N	2.01	0.74
3:A:286:PRO:O	3:A:288:THR:N	2.21	0.74
3:A:633:GLN:O	3:A:636:ARG:N	2.19	0.74
3:A:734:GLU:HB2	3:A:774:THR:HA	1.70	0.74
4:B:267:ASP:OD1	4:B:267:ASP:N	2.15	0.74
4:B:621:TYR:CD2	4:B:773:ARG:HA	2.22	0.74
4:B:631:TRP:CD1	4:B:633:PRO:CD	2.71	0.74
4:B:1160:THR:HG21	4:B:1190:TYR:HH	1.53	0.74
6:E:546:GLN:OE1	6:E:546:GLN:N	2.17	0.74
8:G:156:ASP:O	8:G:160:GLN:HG2	1.87	0.74
8:G:371:LYS:O	8:G:375:LYS:HG3	1.88	0.74
2:2:50:DG:C2	2:2:51:DT:C2	2.76	0.74
3:A:76:GLU:O	3:A:78:LYS:HE3	1.88	0.74
3:A:296:ASP:OD1	3:A:297:ILE:N	2.21	0.74
3:A:310:ASP:O	3:A:311:ILE:HD13	1.86	0.74
4:B:250:HIS:HE1	4:B:252:LYS:CD	2.00	0.74
4:B:385:MET:O	4:B:404:VAL:HB	1.87	0.74
4:B:479:LEU:HG	4:B:973:ARG:HG3	1.70	0.74
4:B:523:VAL:CG2	4:B:866:VAL:HG23	2.17	0.74
4:B:573:ASN:O	4:B:590:GLU:N	2.19	0.74
4:B:937:SER:O	4:B:969:GLY:N	2.19	0.74
5:C:151:VAL:HG12	5:C:151:VAL:O	1.87	0.74
5:D:13:THR:CA	5:D:19:HIS:HA	2.18	0.74
9:X:57:VAL:HG12	9:X:91:HIS:N	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:270:GLY:C	3:A:290:ARG:NH2	2.41	0.73
4:B:82:ARG:HD3	4:B:924:ALA:H	1.52	0.73
4:B:386:ILE:HG21	4:B:397:PRO:HD2	1.70	0.73
4:B:643:ILE:HG21	4:B:676:GLN:HE21	1.53	0.73
5:D:84:GLU:H	5:D:84:GLU:CD	1.91	0.73
6:E:76:TYR:HD2	6:E:81:HIS:CE1	2.06	0.73
6:E:184:VAL:HG12	6:E:185:GLU:H	1.53	0.73
8:G:258:THR:OG1	8:G:262:ILE:CG1	2.36	0.73
9:Y:197:LEU:CD1	9:Y:198:ARG:CG	2.59	0.73
3:A:612:GLY:H	3:A:616:THR:HG21	1.53	0.73
4:B:303:LEU:CD1	4:B:1137:ALA:HB2	2.17	0.73
4:B:539:ILE:HD12	4:B:764:ARG:HH22	1.53	0.73
4:B:721:GLU:O	4:B:723:ARG:N	2.21	0.73
5:D:62:SER:HG	5:D:63:HIS:CE1	2.03	0.73
6:E:368:LEU:HD23	6:E:369:LYS:O	1.87	0.73
8:G:185:GLN:HB2	8:G:186:GLU:OE2	1.88	0.73
9:X:28:PHE:N	9:X:98:VAL:HB	2.03	0.73
9:Y:78:LEU:HD21	9:Y:88:ARG:CD	2.18	0.73
1:1:115:DA:H4'	1:1:116:DC:OP1	1.86	0.73
4:B:17:ILE:O	4:B:18:SER:C	2.24	0.73
4:B:91:PHE:CE1	4:B:156:ASP:CG	2.60	0.73
4:B:726:GLN:HG3	4:B:728:VAL:H	1.54	0.73
4:B:1125:VAL:O	4:B:1128:VAL:N	2.20	0.73
5:C:106:THR:OG1	5:C:107:ILE:N	2.20	0.73
5:C:130:ILE:CB	5:C:136:LEU:HD11	2.18	0.73
5:D:19:HIS:HB2	5:D:200:THR:HG22	1.69	0.73
8:G:123:LYS:O	8:G:126:ARG:NH2	2.22	0.73
8:G:317:LEU:O	8:G:318:LEU:C	2.25	0.73
9:X:35:PHE:H	9:X:92:ALA:HB3	1.53	0.73
9:X:51:ALA:HB3	9:X:95:PHE:CD2	2.24	0.73
1:1:87:DA:N1	2:2:39:DT:C2	2.55	0.73
1:1:88:DA:C6	2:2:37:DT:N3	2.56	0.73
4:B:8:VAL:HG21	6:E:615:TYR:CZ	2.23	0.73
4:B:175:SER:OG	4:B:176:SER:N	1.99	0.73
4:B:286:LEU:CG	4:B:1142:GLU:HG3	2.17	0.73
4:B:618:LYS:C	4:B:621:TYR:CZ	2.61	0.73
1:1:61:DT:C2	1:1:62:DT:N3	2.56	0.73
1:1:94:DT:OP1	6:E:48:ARG:CD	2.30	0.73
2:2:57:DT:H2"	2:2:58:DA:N7	2.04	0.73
3:A:336:VAL:O	3:A:339:GLY:N	2.21	0.73
3:A:370:LEU:O	3:A:373:ALA:N	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:577:GLY:O	3:A:579:GLU:N	2.22	0.73
4:B:88:VAL:HG22	4:B:369:ARG:HB3	1.69	0.73
4:B:536:GLU:O	4:B:837:SER:OG	2.06	0.73
4:B:710:PRO:O	4:B:712:GLU:N	2.22	0.73
4:B:849:THR:HA	4:B:879:LYS:HZ2	1.53	0.73
4:B:1141:ILE:H	4:B:1141:ILE:HD12	1.52	0.73
5:D:51:THR:HG22	5:D:144:ARG:HA	1.71	0.73
5:D:207:GLN:CD	5:D:207:GLN:N	2.41	0.73
6:E:520:LEU:HD23	6:E:520:LEU:C	2.08	0.73
9:X:75:PHE:CE2	9:X:100:LEU:CD2	2.61	0.73
1:1:78:DA:H4'	1:1:79:DA:OP2	1.84	0.73
1:1:80:DA:C5	2:2:46:DT:O4	2.41	0.73
3:A:263:ASP:HB2	3:A:265:LYS:HB3	1.69	0.73
3:A:301:VAL:O	3:A:304:LEU:HB3	1.89	0.73
3:A:460:GLU:CA	3:A:482:ALA:HA	2.19	0.73
3:A:1007:GLY:HA3	6:E:353:ARG:HE	1.53	0.73
4:B:385:MET:CG	4:B:406:GLN:O	2.37	0.73
4:B:613:LYS:O	4:B:617:ALA:N	2.21	0.73
4:B:646:LEU:H	4:B:662:LYS:CD	2.01	0.73
4:B:835:LEU:HD11	4:B:837:SER:HB2	1.69	0.73
4:B:878:SER:OG	4:B:880:GLU:O	2.05	0.73
5:D:92:SER:HB2	5:D:144:ARG:HB3	1.70	0.73
6:E:131:MET:HB3	6:E:136:VAL:HG23	1.69	0.73
8:G:290:ILE:N	8:G:296:SER:O	2.21	0.73
9:Y:28:PHE:HB3	9:Y:32:LYS:HD3	1.70	0.73
1:1:62:DT:OP2	1:1:62:DT:H2'	1.89	0.73
3:A:466:VAL:N	3:A:525:ASP:O	2.18	0.73
3:A:968:PHE:CE2	4:B:48:GLY:HA3	2.24	0.73
3:A:1043:ASP:O	3:A:1045:MET:N	2.22	0.73
4:B:230:LYS:NZ	4:B:231:THR:O	2.21	0.73
4:B:437:ASN:N	4:B:1067:GLN:O	2.22	0.73
4:B:631:TRP:CZ2	4:B:782:VAL:HG22	2.24	0.73
4:B:1028:ILE:HG21	4:B:1082:PRO:CB	2.19	0.73
6:E:89:CYS:SG	6:E:90:GLY:N	2.62	0.73
6:E:230:VAL:O	6:E:233:ASN:N	2.21	0.73
9:X:43:ARG:NH1	9:X:107:GLN:HB3	2.02	0.73
9:X:47:LEU:HB3	9:X:69:LEU:HD23	1.69	0.73
9:X:53:LYS:HA	9:X:67:ALA:O	1.86	0.73
9:X:56:ARG:NH2	9:X:129:ARG:HH21	1.85	0.73
9:X:108:VAL:HG22	9:X:122:MET:CE	2.19	0.73
2:2:41:DC:H1'	2:2:42:DT:O4'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:634:GLU:C	3:A:636:ARG:N	2.39	0.73
3:A:900:GLU:O	3:A:901:CYS:C	2.22	0.73
4:B:84:GLU:HB2	4:B:85:ILE:HG23	1.71	0.73
4:B:125:MET:SD	6:E:515:LEU:HD21	2.28	0.73
4:B:614:LYS:HZ1	4:B:622:GLU:H	1.37	0.73
5:D:143:GLU:OE1	5:D:143:GLU:N	2.19	0.73
6:E:28:ARG:HE	6:E:102:ARG:HD2	1.51	0.73
6:E:122:PRO:O	6:E:127:ILE:HG13	1.88	0.73
6:E:583:SER:CA	6:E:585:THR:H	2.01	0.73
2:2:61:DT:C7	9:Y:188:VAL:CG2	2.66	0.73
3:A:74:LEU:HD21	3:A:95:MET:SD	2.29	0.73
3:A:293:THR:N	3:A:296:ASP:OD2	2.18	0.73
3:A:330:GLU:O	3:A:331:LEU:C	2.26	0.73
3:A:333:GLN:OE1	3:A:334:ASN:N	2.22	0.73
3:A:577:GLY:H	3:A:915:LYS:HD2	1.53	0.73
3:A:941:ASP:OD1	3:A:942:GLU:OE2	2.06	0.73
3:A:993:ARG:HD2	3:A:1013:GLY:O	1.89	0.73
4:B:157:LEU:HB2	4:B:160:LYS:HZ1	1.53	0.73
4:B:378:PHE:CD1	4:B:413:VAL:HG11	2.23	0.73
4:B:613:LYS:NZ	4:B:776:TYR:OH	2.21	0.73
4:B:1231:TRP:HA	6:E:11:TYR:CA	2.19	0.73
6:E:47:TYR:CB	8:G:231:LEU:CD2	2.59	0.73
6:E:152:ASN:HA	6:E:156:LEU:HB2	1.70	0.73
6:E:229:ARG:HA	6:E:232:ASP:OD2	1.88	0.73
6:E:382:GLU:N	6:E:382:GLU:CD	2.40	0.73
6:E:385:GLN:O	6:E:388:VAL:HG12	1.88	0.73
9:X:47:LEU:HD12	9:X:100:LEU:CD2	2.19	0.73
9:X:52:VAL:HG13	9:X:98:VAL:HG22	1.70	0.73
1:1:60:DT:C6	1:1:61:DT:H73	2.23	0.73
1:1:88:DA:N6	2:2:37:DT:C4	2.57	0.73
1:1:107:DG:C2	1:1:108:DA:N1	2.57	0.73
2:2:9:DC:C4	2:2:10:DG:O6	2.42	0.73
2:2:59:DG:O5'	2:2:59:DG:H8	1.72	0.73
3:A:30:LEU:C	3:A:30:LEU:HD12	2.08	0.73
3:A:300:ALA:O	3:A:303:TYR:N	2.22	0.73
3:A:606:ILE:O	3:A:608:VAL:N	2.22	0.73
3:A:756:ILE:CG2	3:A:757:ILE:H	2.01	0.73
3:A:999:SER:OG	3:A:1000:LEU:N	2.16	0.73
4:B:553:VAL:HG23	4:B:561:ASN:H	1.54	0.73
4:B:1247:ALA:HA	4:B:1251:TYR:HB2	1.70	0.73
6:E:226:LYS:O	6:E:229:ARG:N	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:300:ARG:O	6:E:301:ASN:C	2.25	0.73
8:G:287:GLU:HA	8:G:298:LEU:H	1.53	0.73
9:Y:142:HIS:O	9:Y:148:ARG:NE	2.21	0.73
3:A:198:LEU:HD23	3:A:208:GLU:HB2	1.69	0.72
3:A:762:TRP:N	3:A:813:ARG:HH11	1.87	0.72
4:B:103:GLU:HB2	4:B:424:LEU:CD1	2.19	0.72
4:B:596:TYR:CD1	4:B:744:PHE:HB3	2.24	0.72
4:B:700:VAL:HG12	4:B:704:ASP:HB3	1.69	0.72
4:B:726:GLN:OE1	4:B:737:LEU:CD2	2.37	0.72
5:D:83:LYS:NZ	5:D:168:SER:HA	2.04	0.72
6:E:220:LYS:CD	6:E:223:LYS:CD	2.30	0.72
6:E:228:LEU:HB3	6:E:232:ASP:OD2	1.87	0.72
6:E:389:ILE:HG13	6:E:390:ASN:N	2.03	0.72
8:G:338:ARG:HG2	8:G:343:LEU:HD22	1.69	0.72
1:1:115:DA:C2	2:2:11:DT:C2	2.78	0.72
3:A:96:TYR:CE1	3:A:115:PHE:HB3	2.23	0.72
3:A:151:SER:HA	3:A:161:TYR:HA	1.72	0.72
3:A:270:GLY:C	3:A:273:GLY:H	1.91	0.72
3:A:274:ARG:O	3:A:277:LEU:N	2.22	0.72
4:B:90:ARG:HA	4:B:372:HIS:CD2	2.24	0.72
4:B:260:ARG:NH1	4:B:261:ASN:OD1	2.22	0.72
4:B:628:THR:HA	4:B:743:GLU:OE2	1.88	0.72
5:C:47:ASN:C	5:C:48:LEU:HG	2.01	0.72
5:C:67:THR:OG1	5:C:68:VAL:N	2.21	0.72
6:E:115:VAL:HG13	6:E:116:TRP:CD1	2.24	0.72
6:E:303:LYS:O	6:E:304:ARG:C	2.25	0.72
8:G:81:SER:OG	8:G:181:GLN:NE2	2.22	0.72
9:X:28:PHE:HB2	9:X:94:ALA:HB1	1.72	0.72
9:X:38:GLY:O	9:X:40:PRO:HD3	1.89	0.72
9:Y:67:ALA:HB1	9:Y:75:PHE:CE1	2.24	0.72
1:1:115:DA:C2	2:2:11:DT:O2	2.39	0.72
2:2:57:DT:OP2	2:2:57:DT:H2'	1.90	0.72
3:A:79:TYR:HB3	3:A:83:GLU:CB	2.19	0.72
3:A:285:VAL:CG1	3:A:289:VAL:HG11	2.19	0.72
3:A:788:LEU:HD11	8:G:385:LEU:HB2	1.71	0.72
3:A:1011:GLN:OE1	3:A:1011:GLN:N	2.22	0.72
4:B:226:THR:HA	4:B:231:THR:HA	1.72	0.72
4:B:304:ALA:HA	6:E:500:PRO:HA	1.71	0.72
4:B:330:LEU:HD12	4:B:1011:LEU:HD12	1.71	0.72
4:B:416:GLN:O	4:B:418:VAL:N	2.22	0.72
4:B:519:HIS:HB2	4:B:805:GLN:OE1	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:711:GLY:HA2	4:B:718:VAL:HG23	1.71	0.72
4:B:713:GLU:CD	4:B:716:GLY:H	1.91	0.72
4:B:725:ILE:HA	4:B:737:LEU:O	1.89	0.72
4:B:773:ARG:HB3	4:B:792:ARG:HB3	1.71	0.72
4:B:785:VAL:HB	4:B:786:GLU:OE1	1.89	0.72
4:B:1089:ASN:CB	4:B:1091:HIS:NE2	2.52	0.72
5:C:83:LYS:HG2	5:C:166:ILE:HD11	1.70	0.72
8:G:352:GLU:OE1	8:G:352:GLU:N	2.20	0.72
9:Y:213:HIS:HB3	9:Y:214:LYS:HZ2	1.54	0.72
1:1:78:DA:H8	1:1:78:DA:OP2	1.72	0.72
1:1:106:DG:C4	1:1:107:DG:C6	2.78	0.72
3:A:185:VAL:HG11	3:A:200:LYS:CE	2.19	0.72
3:A:222:THR:HG23	3:A:225:LYS:N	2.04	0.72
3:A:372:ALA:O	3:A:375:LYS:N	2.21	0.72
3:A:425:SER:HB2	3:A:484:GLU:OE1	1.89	0.72
3:A:667:GLN:HG2	3:A:668:VAL:N	2.00	0.72
4:B:28:ARG:O	4:B:31:VAL:HG12	1.88	0.72
4:B:357:ILE:CG2	4:B:387:LEU:HD23	2.19	0.72
4:B:726:GLN:OE1	4:B:737:LEU:HD22	1.89	0.72
4:B:760:GLN:NE2	4:B:806:GLU:HB2	2.03	0.72
5:D:68:VAL:HG23	5:D:69:PRO:HD2	1.70	0.72
9:Y:137:ILE:HA	9:Y:140:LEU:HG	1.72	0.72
2:2:50:DG:H2"	2:2:51:DT:OP2	1.90	0.72
3:A:232:GLU:HA	3:A:235:LEU:HD23	1.70	0.72
3:A:1093:ALA:O	3:A:1094:ASP:C	2.21	0.72
4:B:473:THR:CG2	4:B:977:GLY:C	2.44	0.72
4:B:775:PRO:HD3	4:B:790:LEU:HA	1.69	0.72
4:B:813:ALA:HB1	4:B:834:ILE:HD12	1.69	0.72
4:B:1077:VAL:HG21	4:B:1081:GLN:OE1	1.88	0.72
5:D:114:LEU:HD12	5:D:115:PRO:O	1.90	0.72
6:E:134:ARG:H	6:E:137:GLU:HB3	1.53	0.72
6:E:401:ILE:HG13	6:E:402:LYS:N	2.04	0.72
6:E:595:GLU:HG2	6:E:596:ASP:H	1.55	0.72
6:E:615:TYR:O	6:E:618:ALA:N	2.23	0.72
9:X:118:LEU:HA	9:X:121:LEU:HD12	1.72	0.72
9:Y:78:LEU:HD11	9:Y:88:ARG:NE	2.04	0.72
3:A:653:GLN:HG2	3:A:671:ASP:O	1.88	0.72
3:A:654:LYS:HE3	5:C:74:ASP:HB3	1.70	0.72
4:B:66:LEU:HD11	4:B:143:MET:HE1	1.70	0.72
4:B:93:LYS:HE2	4:B:375:ASP:HB3	1.68	0.72
4:B:359:LEU:HD23	4:B:384:ILE:O	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:419:LYS:O	4:B:421:GLY:N	2.23	0.72
4:B:457:GLU:OE2	4:B:481:TRP:CZ2	2.42	0.72
4:B:464:THR:CB	4:B:469:ASN:HA	2.20	0.72
4:B:517:THR:O	4:B:518:ILE:CG1	2.38	0.72
4:B:525:LEU:N	4:B:861:ASP:OD1	2.22	0.72
4:B:700:VAL:O	4:B:703:ARG:N	2.22	0.72
5:C:101:VAL:HG12	5:C:102:ASN:N	2.02	0.72
5:C:101:VAL:HG12	5:C:136:LEU:HD12	1.71	0.72
5:C:227:ILE:CD1	5:D:5:GLN:HA	2.19	0.72
6:E:206:ALA:C	6:E:210:ARG:CD	2.58	0.72
6:E:402:LYS:CD	8:G:390:ARG:HH21	1.92	0.72
6:E:580:GLU:H	6:E:583:SER:HB3	1.54	0.72
8:G:218:ILE:O	8:G:219:THR:C	2.24	0.72
8:G:334:ARG:HA	8:G:337:LEU:HD22	1.71	0.72
1:1:87:DA:C6	2:2:38:DT:O4	2.42	0.72
3:A:96:TYR:CE2	3:A:115:PHE:CD1	2.77	0.72
3:A:174:LYS:HE2	3:A:189:LYS:H	1.54	0.72
3:A:609:ARG:HB2	3:A:635:ILE:O	1.89	0.72
4:B:352:LYS:CD	4:B:358:LYS:HZ1	1.99	0.72
4:B:528:ALA:O	4:B:535:ARG:NE	2.23	0.72
4:B:541:THR:HG21	4:B:764:ARG:CZ	2.20	0.72
4:B:544:VAL:HG13	4:B:757:SER:HA	1.71	0.72
4:B:854:GLN:H	4:B:875:GLN:N	1.87	0.72
4:B:901:ARG:O	4:B:905:MET:N	2.23	0.72
4:B:919:GLY:HA2	4:B:940:ILE:O	1.90	0.72
5:D:148:TYR:HH	5:D:171:MET:HA	1.54	0.72
5:D:149:ARG:NH1	5:D:149:ARG:O	2.23	0.72
6:E:276:TYR:O	6:E:279:VAL:N	2.22	0.72
7:F:31:ILE:O	7:F:34:GLN:HG2	1.90	0.72
9:Y:43:ARG:NH1	9:Y:44:VAL:HG23	2.03	0.72
3:A:222:THR:N	3:A:225:LYS:HB2	2.04	0.72
3:A:239:TYR:CG	3:A:248:PRO:HB3	2.25	0.72
3:A:307:LEU:HA	3:A:311:ILE:H	1.55	0.72
3:A:545:LEU:HB3	3:A:918:PRO:HB3	1.72	0.72
4:B:630:LEU:HD13	4:B:741:VAL:HG11	1.72	0.72
4:B:764:ARG:HG3	4:B:807:HIS:HD2	1.53	0.72
5:C:13:THR:HG22	5:C:206:PRO:CD	2.17	0.72
5:D:118:VAL:HG11	5:D:142:ILE:CG1	2.20	0.72
6:E:206:ALA:C	6:E:210:ARG:HG3	2.09	0.72
6:E:268:ALA:HB1	8:G:286:LEU:HD13	1.71	0.72
9:X:78:LEU:HD21	9:X:88:ARG:CD	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:154:LEU:C	9:X:157:CYS:HG	1.88	0.72
1:1:64:DT:H4'	1:1:65:DA:H5'	1.72	0.72
3:A:236:MET:HA	3:A:239:TYR:HB2	1.72	0.72
3:A:334:ASN:O	3:A:337:ARG:N	2.23	0.72
3:A:606:ILE:C	3:A:609:ARG:NE	2.42	0.72
3:A:619:GLY:O	3:A:633:GLN:NE2	2.22	0.72
4:B:8:VAL:H	6:E:521:THR:HG21	1.54	0.72
4:B:198:ARG:NH2	6:E:346:ARG:CZ	2.53	0.72
4:B:725:ILE:HD11	4:B:736:LEU:HB3	1.72	0.72
5:D:160:SER:O	5:D:161:LEU:HG	1.89	0.72
8:G:178:LEU:HG	8:G:222:ILE:CG2	2.20	0.72
9:Y:56:ARG:HA	9:Y:90:TYR:CB	2.20	0.72
1:1:115:DA:H1'	1:1:116:DC:C2	2.25	0.72
2:2:44:DA:H1'	2:2:45:DA:H5'	1.69	0.72
3:A:471:VAL:HG23	3:A:473:PHE:H	1.54	0.72
4:B:522:VAL:HB	4:B:862:GLY:HA2	1.72	0.72
4:B:539:ILE:HG22	4:B:865:ILE:HB	1.72	0.72
4:B:621:TYR:CE2	4:B:774:LEU:O	2.43	0.72
4:B:649:GLU:HG3	4:B:650:ASP:O	1.90	0.72
4:B:726:GLN:HB2	4:B:737:LEU:CB	2.20	0.72
4:B:1123:ASN:O	4:B:1124:GLU:C	2.25	0.72
5:C:46:SER:OG	5:C:47:ASN:N	2.20	0.72
6:E:202:LEU:HG	6:E:235:ILE:CG2	2.19	0.72
8:G:110:LEU:CD1	8:G:152:ARG:CB	2.66	0.72
8:G:258:THR:O	8:G:262:ILE:HG12	1.89	0.72
3:A:66:HIS:O	3:A:67:PHE:CD1	2.43	0.71
3:A:609:ARG:HA	3:A:635:ILE:CD1	2.19	0.71
3:A:734:GLU:N	3:A:734:GLU:OE1	2.22	0.71
3:A:957:ILE:HG22	3:A:958:MET:H	1.54	0.71
3:A:1038:LEU:HD12	6:E:352:LYS:NZ	2.05	0.71
4:B:74:ARG:O	4:B:78:VAL:HG23	1.90	0.71
4:B:303:LEU:CD1	6:E:502:THR:HA	2.09	0.71
4:B:443:LYS:H	4:B:997:LEU:N	1.88	0.71
4:B:721:GLU:CD	4:B:723:ARG:HA	2.09	0.71
5:C:145:GLY:HA3	5:C:149:ARG:HH12	1.55	0.71
5:D:28:LEU:HD22	5:D:32:GLN:HB3	1.71	0.71
6:E:409:SER:OG	6:E:410:ARG:CZ	2.38	0.71
8:G:290:ILE:HG13	8:G:291:GLY:H	1.55	0.71
3:A:606:ILE:N	3:A:609:ARG:HE	1.86	0.71
3:A:1066:THR:OG1	3:A:1066:THR:O	2.05	0.71
3:A:1077:LEU:O	3:A:1079:SER:N	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:646:LEU:O	4:B:662:LYS:HE2	1.90	0.71
4:B:653:TYR:HH	4:B:656:ALA:HB2	1.55	0.71
4:B:739:ARG:HH12	4:B:781:ARG:CZ	2.01	0.71
4:B:1114:LEU:O	4:B:1117:VAL:HG12	1.90	0.71
5:C:13:THR:HG21	5:C:206:PRO:HG2	1.72	0.71
5:C:77:GLU:C	5:C:80:MET:H	1.92	0.71
6:E:76:TYR:CD2	6:E:81:HIS:CG	2.77	0.71
6:E:230:VAL:O	6:E:231:ILE:C	2.27	0.71
6:E:487:ALA:O	6:E:488:ARG:C	2.28	0.71
6:E:615:TYR:O	6:E:616:ASN:C	2.27	0.71
9:X:134:GLU:HA	9:X:137:ILE:HD12	1.71	0.71
9:X:145:MET:HA	9:X:183:ILE:HD12	1.72	0.71
9:X:177:GLN:HA	9:X:180:ALA:H	1.53	0.71
3:A:272:VAL:O	3:A:275:TYR:N	2.23	0.71
3:A:709:VAL:HG21	3:A:845:LYS:HB3	1.72	0.71
4:B:34:ASP:O	4:B:35:LYS:C	2.25	0.71
4:B:252:LYS:C	4:B:254:LYS:H	1.94	0.71
4:B:763:GLY:C	4:B:801:GLN:HG3	2.10	0.71
4:B:842:ARG:HD2	4:B:845:ALA:CB	2.20	0.71
4:B:1042:ASP:O	4:B:1050:LYS:HE3	1.91	0.71
5:D:150:THR:HA	5:D:167:ASP:HB2	1.71	0.71
6:E:407:LEU:HD11	6:E:412:ASP:CB	2.20	0.71
8:G:88:GLU:O	8:G:91:ARG:HG2	1.90	0.71
8:G:149:HIS:HE1	8:G:153:ARG:HD3	1.55	0.71
9:X:154:LEU:CA	9:X:157:CYS:SG	2.78	0.71
9:Y:54:LEU:HB3	9:Y:67:ALA:CB	2.17	0.71
9:Y:78:LEU:HD11	9:Y:88:ARG:HH11	1.51	0.71
1:1:85:DG:C1'	1:1:86:DG:H5'	2.19	0.71
3:A:164:SER:O	3:A:165:LEU:HD22	1.91	0.71
3:A:198:LEU:HD22	3:A:301:VAL:HG21	1.71	0.71
4:B:89:GLU:HG2	4:B:371:ARG:HG3	1.73	0.71
4:B:1090:PRO:CA	4:B:1093:ILE:HG12	2.20	0.71
6:E:117:TYR:O	6:E:125:ILE:HG12	1.90	0.71
9:X:179:ILE:O	9:X:182:ALA:N	2.22	0.71
1:1:100:DA:N3	8:G:204:TYR:CE2	2.59	0.71
3:A:618:SER:HB2	3:A:621:SER:OG	1.90	0.71
4:B:562:TYR:N	4:B:574:LEU:HD21	2.03	0.71
4:B:732:GLU:C	4:B:734:PRO:HD3	2.10	0.71
4:B:757:SER:HB3	4:B:768:MET:CG	2.16	0.71
4:B:786:GLU:HG3	4:B:788:VAL:HG22	1.71	0.71
4:B:908:LEU:CD2	4:B:966:ILE:HG21	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1032:ARG:HG3	4:B:1078:PRO:CD	2.19	0.71
4:B:1079:ALA:HA	4:B:1081:GLN:O	1.89	0.71
5:C:97:GLY:HA3	5:C:114:LEU:CA	2.20	0.71
5:C:196:LEU:HD23	5:C:197:GLU:N	2.06	0.71
5:D:77:GLU:C	5:D:80:MET:H	1.92	0.71
6:E:94:THR:CG2	6:E:98:VAL:HG21	2.20	0.71
9:X:68:LEU:O	9:X:70:ARG:NH1	2.24	0.71
3:A:141:ILE:HG23	3:A:141:ILE:O	1.89	0.71
3:A:401:ARG:HG2	3:A:402:LEU:N	2.03	0.71
3:A:503:ILE:HG21	3:A:508:VAL:HG21	1.73	0.71
3:A:552:ARG:NH2	3:A:892:ARG:HG2	2.03	0.71
3:A:598:VAL:HG13	3:A:660:GLY:N	2.05	0.71
4:B:164:ARG:O	4:B:166:GLY:N	2.24	0.71
4:B:438:THR:HA	4:B:1001:ARG:O	1.90	0.71
4:B:516:THR:HA	4:B:870:VAL:HA	1.72	0.71
4:B:621:TYR:HD2	4:B:774:LEU:H	1.30	0.71
4:B:1239:VAL:O	4:B:1241:ILE:N	2.23	0.71
5:C:83:LYS:NZ	5:C:168:SER:HA	2.04	0.71
5:C:105:THR:HG23	5:C:106:THR:O	1.91	0.71
6:E:265:GLY:CA	8:G:278:LYS:CE	2.67	0.71
6:E:332:LYS:HZ1	8:G:297:ARG:HH22	1.35	0.71
8:G:90:GLY:O	8:G:92:ILE:N	2.24	0.71
9:Y:68:LEU:O	9:Y:70:ARG:NH1	2.24	0.71
1:1:80:DA:C2'	1:1:81:DT:H5'	2.20	0.71
2:2:44:DA:H2"	2:2:45:DA:OP2	1.89	0.71
4:B:30:ALA:O	4:B:33:ALA:N	2.23	0.71
4:B:59:PRO:HB3	4:B:109:VAL:HA	1.73	0.71
4:B:643:ILE:HG13	4:B:643:ILE:O	1.90	0.71
4:B:1231:TRP:HE1	6:E:11:TYR:HD2	1.28	0.71
5:C:76:LEU:HD12	5:C:76:LEU:H	1.54	0.71
5:C:97:GLY:CA	5:C:114:LEU:CA	2.67	0.71
5:C:130:ILE:HD12	5:C:136:LEU:CG	2.12	0.71
5:D:130:ILE:HD11	5:D:134:GLY:HA3	1.73	0.71
5:D:154:GLY:O	5:D:155:ARG:HG3	1.89	0.71
1:1:109:DG:N3	1:1:109:DG:H5'	2.05	0.71
3:A:66:HIS:CE1	3:A:100:ARG:HD2	2.26	0.71
3:A:110:LYS:HZ1	3:A:360:THR:CG2	2.03	0.71
3:A:236:MET:HB2	3:A:240:ARG:HH11	1.54	0.71
3:A:733:PRO:HB2	3:A:735:GLU:OE2	1.90	0.71
4:B:39:LEU:O	4:B:42:ARG:N	2.22	0.71
4:B:136:GLN:O	4:B:140:LEU:HG	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:169:VAL:O	4:B:170:THR:C	2.28	0.71
4:B:367:THR:HA	4:B:370:THR:OG1	1.91	0.71
4:B:909:ASN:HA	4:B:962:TYR:O	1.91	0.71
4:B:1078:PRO:C	4:B:1100:LEU:CD1	2.59	0.71
4:B:1215:GLU:HB3	4:B:1218:ARG:HB3	1.72	0.71
5:C:205:SER:OG	5:C:207:GLN:NE2	2.24	0.71
5:D:89:SER:OG	5:D:90:TYR:N	2.21	0.71
6:E:419:LEU:O	6:E:422:VAL:HG12	1.89	0.71
6:E:511:GLN:O	6:E:513:MET:N	2.23	0.71
1:1:99:DT:H1'	8:G:212:TRP:CZ3	2.26	0.71
3:A:265:LYS:HG2	3:A:266:ARG:NH1	2.05	0.71
3:A:364:LEU:HD23	3:A:364:LEU:N	2.03	0.71
4:B:39:LEU:O	4:B:40:GLY:C	2.29	0.71
4:B:688:PRO:CD	4:B:739:ARG:CD	2.63	0.71
4:B:1028:ILE:HG21	4:B:1082:PRO:HB2	1.71	0.71
5:C:63:HIS:HA	5:C:164:LEU:CD2	2.09	0.71
6:E:76:TYR:CD2	6:E:81:HIS:CE1	2.77	0.71
6:E:162:LEU:HA	6:E:166:GLN:HG2	1.73	0.71
6:E:226:LYS:O	6:E:228:LEU:N	2.23	0.71
8:G:342:GLY:HA2	8:G:346:GLY:O	1.91	0.71
9:X:42:GLU:CB	9:X:78:LEU:HB2	1.91	0.71
9:X:47:LEU:HD13	9:X:52:VAL:CG2	2.19	0.71
9:Y:121:LEU:HA	9:Y:124:ARG:NH1	2.06	0.71
1:1:58:DA:H1'	1:1:59:DT:C4	2.24	0.71
1:1:71:DT:P	9:X:145:MET:HE3	2.30	0.71
1:1:100:DA:O5'	1:1:100:DA:C8	2.43	0.71
2:2:50:DG:OP2	9:X:190:VAL:HG22	1.91	0.71
3:A:122:MET:HG2	3:A:123:THR:N	2.05	0.71
3:A:382:GLN:OE1	3:A:382:GLN:N	2.24	0.71
3:A:460:GLU:HA	3:A:482:ALA:CA	2.20	0.71
3:A:597:ASP:OD2	3:A:662:ARG:NH1	2.24	0.71
3:A:616:THR:HG1	3:A:633:GLN:H	1.37	0.71
3:A:729:THR:N	3:A:732:GLY:O	2.23	0.71
4:B:100:GLY:N	4:B:421:GLY:O	2.22	0.71
4:B:208:ILE:O	4:B:210:ARG:CD	2.39	0.71
4:B:677:LYS:HD2	4:B:682:ARG:HD2	1.73	0.71
5:C:13:THR:HG21	5:C:206:PRO:CG	2.21	0.71
5:D:19:HIS:CB	5:D:206:PRO:HD3	2.13	0.71
6:E:265:GLY:HA3	8:G:278:LYS:CE	2.19	0.71
1:1:76:DC:H1'	1:1:77:DA:O5'	1.90	0.70
1:1:111:DT:OP2	1:1:111:DT:H6	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1055:ILE:CG1	3:A:1056:VAL:N	2.53	0.70
4:B:34:ASP:O	4:B:36:LEU:N	2.24	0.70
4:B:107:ASP:HB3	4:B:354:ASP:HB3	1.71	0.70
4:B:548:GLN:HA	4:B:827:VAL:HG11	1.73	0.70
4:B:645:LEU:HB2	4:B:662:LYS:HA	1.72	0.70
5:C:63:HIS:HD2	5:C:65:PHE:H	1.36	0.70
8:G:316:ASN:HA	8:G:319:ARG:CD	2.21	0.70
9:X:148:ARG:NH2	9:Y:143:ARG:HE	1.87	0.70
9:X:203:ILE:HA	9:X:211:THR:O	1.91	0.70
9:Y:161:GLY:CA	9:Y:170:ILE:HD13	2.20	0.70
2:2:56:DG:H2"	2:2:57:DT:OP2	1.90	0.70
3:A:298:LEU:HD12	3:A:299:ALA:N	2.06	0.70
3:A:883:VAL:HG13	3:A:883:VAL:O	1.90	0.70
3:A:1052:LEU:HD23	3:A:1053:ASN:N	2.06	0.70
3:A:1076:GLU:O	3:A:1077:LEU:C	2.28	0.70
4:B:93:LYS:HZ2	4:B:415:GLY:HA3	1.55	0.70
4:B:99:ASN:CB	4:B:423:LEU:HB2	2.20	0.70
4:B:522:VAL:HA	4:B:863:ASP:N	2.06	0.70
5:C:108:THR:HG23	5:C:124:THR:HA	1.73	0.70
5:D:9:VAL:HG22	5:D:22:LYS:HB2	1.73	0.70
5:D:85:VAL:HA	5:D:125:GLN:OE1	1.91	0.70
5:D:186:ASP:C	5:D:188:SER:H	1.93	0.70
9:X:27:THR:OG1	9:X:98:VAL:C	2.29	0.70
1:1:86:DG:H1'	1:1:87:DA:H5'	1.73	0.70
3:A:298:LEU:HA	3:A:301:VAL:CG2	2.21	0.70
3:A:488:LEU:N	3:A:512:TYR:CE1	2.59	0.70
3:A:599:VAL:N	3:A:608:VAL:HG12	2.06	0.70
4:B:653:TYR:CD1	4:B:671:VAL:HB	2.27	0.70
4:B:678:ASN:ND2	4:B:682:ARG:HG2	2.05	0.70
4:B:720:THR:OG1	4:B:723:ARG:NH2	2.24	0.70
5:D:83:LYS:HG2	5:D:166:ILE:HD11	1.71	0.70
5:D:118:VAL:CB	5:D:142:ILE:HG13	2.21	0.70
6:E:254:PRO:HA	6:E:257:ARG:NH1	2.05	0.70
6:E:332:LYS:HZ1	8:G:297:ARG:NH2	1.89	0.70
8:G:338:ARG:CD	8:G:343:LEU:HB3	2.21	0.70
9:X:101:LEU:HD12	9:X:102:SER:H	1.56	0.70
9:Y:101:LEU:HD12	9:Y:102:SER:H	1.56	0.70
1:1:76:DC:N4	2:2:50:DG:C6	2.57	0.70
1:1:87:DA:C2	2:2:39:DT:C2	2.79	0.70
1:1:107:DG:H8	1:1:107:DG:OP2	1.73	0.70
3:A:80:SER:O	3:A:83:GLU:HB2	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:932:VAL:HG13	3:A:933:HIS:N	2.04	0.70
4:B:196:LEU:O	4:B:197:THR:C	2.28	0.70
4:B:365:THR:OG1	4:B:414:ASP:OD2	2.08	0.70
4:B:419:LYS:NZ	4:B:420:LYS:HE2	2.05	0.70
4:B:522:VAL:HG13	4:B:540:ILE:O	1.92	0.70
4:B:1154:ILE:HD12	4:B:1173:VAL:HG21	1.73	0.70
5:C:84:GLU:H	5:C:84:GLU:CD	1.91	0.70
5:C:159:THR:HG23	5:C:163:PHE:CE2	2.24	0.70
8:G:204:TYR:HD2	8:G:208:THR:OG1	1.74	0.70
9:X:98:VAL:CG1	9:X:100:LEU:CG	2.69	0.70
9:Y:35:PHE:CZ	9:Y:88:ARG:HB3	2.26	0.70
3:A:185:VAL:CG2	3:A:197:VAL:O	2.40	0.70
3:A:224:GLU:CB	3:A:226:GLU:OE2	2.34	0.70
3:A:579:GLU:O	3:A:580:ALA:C	2.28	0.70
4:B:2:ILE:HG23	4:B:2:ILE:O	1.89	0.70
4:B:714:LEU:N	4:B:717:GLN:O	2.24	0.70
5:D:40:LEU:O	5:D:41:ARG:C	2.29	0.70
5:D:75:VAL:HA	5:D:78:ILE:HD12	1.73	0.70
5:D:196:LEU:HD23	5:D:197:GLU:N	2.06	0.70
8:G:120:LEU:HB3	8:G:128:PRO:CG	2.18	0.70
9:X:189:THR:HA	9:X:193:LEU:HD13	1.72	0.70
1:1:86:DG:N1	2:2:40:DC:C2	2.47	0.70
3:A:192:LYS:HG2	3:A:193:LEU:N	2.06	0.70
3:A:605:GLU:N	3:A:605:GLU:OE1	2.24	0.70
4:B:631:TRP:HE1	4:B:633:PRO:CA	2.04	0.70
4:B:678:ASN:N	4:B:678:ASN:OD1	2.24	0.70
4:B:714:LEU:HB3	4:B:717:GLN:OE1	1.91	0.70
4:B:908:LEU:O	4:B:964:VAL:N	2.18	0.70
4:B:1011:LEU:HD12	4:B:1011:LEU:H	1.55	0.70
4:B:1019:GLU:HG2	4:B:1197:ILE:HB	1.72	0.70
5:C:171:MET:SD	5:C:171:MET:C	2.70	0.70
6:E:224:LEU:HD22	6:E:224:LEU:N	2.07	0.70
9:X:194:LEU:HA	9:X:197:LEU:HD12	1.74	0.70
1:1:106:DG:C5	1:1:107:DG:O6	2.44	0.70
3:A:535:VAL:HG21	3:A:540:SER:CB	2.21	0.70
3:A:592:SER:OG	3:A:667:GLN:N	2.25	0.70
3:A:633:GLN:C	3:A:635:ILE:N	2.45	0.70
3:A:707:ARG:CG	3:A:710:GLN:OE1	2.38	0.70
3:A:957:ILE:HG22	3:A:958:MET:N	2.05	0.70
4:B:170:THR:HG1	4:B:171:GLU:H	1.38	0.70
4:B:174:ILE:O	4:B:177:TYR:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:203:VAL:CG2	4:B:1197:ILE:O	2.40	0.70
4:B:347:GLN:CD	4:B:356:THR:HG22	2.12	0.70
4:B:538:GLU:CA	4:B:836:GLU:O	2.30	0.70
4:B:604:LEU:HB2	4:B:631:TRP:HZ3	1.54	0.70
4:B:692:LEU:HB2	4:B:736:LEU:O	1.92	0.70
4:B:1027:CYS:HG	4:B:1084:SER:CB	1.97	0.70
5:D:181:GLU:OE2	5:D:193:ARG:CZ	2.40	0.70
6:E:347:GLN:HG3	6:E:348:ASN:N	2.07	0.70
9:X:57:VAL:CG1	9:X:91:HIS:H	2.05	0.70
9:Y:47:LEU:N	9:Y:73:SER:O	2.25	0.70
9:Y:171:ASP:C	9:Y:210:ILE:HD13	2.11	0.70
3:A:196:GLN:OE1	3:A:229:PHE:CE2	2.45	0.70
3:A:325:VAL:HG13	3:A:325:VAL:O	1.92	0.70
3:A:599:VAL:HG22	3:A:608:VAL:HA	1.74	0.70
4:B:463:LYS:HZ2	4:B:467:GLN:H	1.35	0.70
4:B:621:TYR:HB2	4:B:773:ARG:HA	1.73	0.70
4:B:714:LEU:HD12	4:B:736:LEU:CD2	2.21	0.70
4:B:745:ALA:O	4:B:746:VAL:HG13	1.91	0.70
4:B:896:ARG:HG3	4:B:989:GLN:HE22	1.56	0.70
5:C:75:VAL:HA	5:C:78:ILE:HD12	1.73	0.70
5:C:101:VAL:HG12	5:C:102:ASN:H	1.57	0.70
8:G:120:LEU:HD22	8:G:136:ALA:HB2	1.73	0.70
9:X:35:PHE:N	9:X:92:ALA:HB3	2.06	0.70
9:X:161:GLY:CA	9:X:170:ILE:HD13	2.20	0.70
9:Y:28:PHE:HB2	9:Y:94:ALA:HB2	1.74	0.70
9:Y:34:ILE:CG2	9:Y:45:TYR:CE1	2.75	0.70
1:1:121:DG:C5	1:1:122:DC:C4	2.79	0.70
2:2:47:DT:H6	2:2:47:DT:C5'	2.05	0.70
3:A:37:SER:O	3:A:40:TRP:HB3	1.91	0.70
3:A:110:LYS:HZ1	3:A:360:THR:HG22	1.55	0.70
3:A:188:ASP:OD1	3:A:188:ASP:O	2.10	0.70
3:A:268:ASP:OD1	3:A:270:GLY:N	2.25	0.70
3:A:368:LYS:O	3:A:371:VAL:N	2.23	0.70
3:A:505:GLY:O	3:A:508:VAL:HG23	1.91	0.70
3:A:631:LYS:O	3:A:633:GLN:NE2	2.24	0.70
3:A:1051:ALA:O	3:A:1052:LEU:C	2.28	0.70
4:B:82:ARG:HD3	4:B:924:ALA:N	2.06	0.70
4:B:589:ALA:HB3	4:B:795:LEU:HB2	1.73	0.70
4:B:923:VAL:O	4:B:926:THR:HG23	1.92	0.70
5:C:77:GLU:CA	5:C:80:MET:HG2	2.20	0.70
5:C:142:ILE:HG22	5:C:143:GLU:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:270:ILE:HA	8:G:273:LEU:HD12	1.72	0.70
9:X:176:HIS:O	9:X:189:THR:HG21	1.92	0.70
9:Y:43:ARG:CG	9:Y:105:ILE:HG13	2.21	0.70
1:1:109:DG:N3	1:1:110:DC:N4	2.39	0.70
2:2:51:DT:H2"	2:2:52:DA:C8	2.27	0.70
2:2:58:DA:C1'	2:2:59:DG:C8	2.74	0.70
3:A:350:ARG:HH21	3:A:364:LEU:CA	2.05	0.70
3:A:391:ASN:O	3:A:392:PRO:C	2.27	0.70
3:A:912:VAL:HG22	3:A:914:PHE:HE1	1.57	0.70
4:B:453:VAL:HG22	4:B:482:ILE:CD1	2.21	0.70
4:B:526:PRO:HB2	4:B:535:ARG:HB3	1.73	0.70
4:B:530:PRO:HG3	4:B:536:GLU:OE2	1.92	0.70
4:B:688:PRO:CD	4:B:739:ARG:HD2	2.20	0.70
5:D:35:THR:CA	5:D:38:ASN:HB3	2.22	0.70
5:D:63:HIS:HD2	5:D:65:PHE:H	1.36	0.70
6:E:229:ARG:HG3	6:E:230:VAL:N	2.05	0.70
6:E:374:GLY:HA3	6:E:455:GLN:HG2	1.73	0.70
6:E:388:VAL:O	6:E:391:ARG:N	2.24	0.70
6:E:594:ARG:NH1	6:E:603:SER:CB	2.51	0.70
8:G:285:SER:O	8:G:285:SER:OG	2.04	0.70
8:G:287:GLU:HB2	8:G:297:ARG:HB3	1.73	0.70
2:2:30:DG:N3	2:2:31:DA:H1'	2.06	0.69
3:A:968:PHE:HE1	3:A:970:ARG:HB3	1.56	0.69
4:B:764:ARG:HB2	4:B:807:HIS:HB2	1.74	0.69
4:B:1088:SER:CB	4:B:1093:ILE:CG2	2.70	0.69
4:B:1118:GLN:O	4:B:1119:THR:C	2.31	0.69
5:C:10:GLU:O	5:C:21:SER:HA	1.92	0.69
5:C:199:TRP:N	5:C:199:TRP:CD1	2.57	0.69
5:D:76:LEU:HD12	5:D:76:LEU:H	1.54	0.69
6:E:71:CYS:HA	6:E:91:VAL:CG1	2.21	0.69
8:G:87:GLN:HB3	8:G:91:ARG:NH2	2.07	0.69
8:G:336:VAL:HG23	8:G:354:ILE:CG1	2.21	0.69
9:Y:137:ILE:HA	9:Y:140:LEU:CG	2.22	0.69
1:1:98:DG:H5'	1:1:98:DG:H8	1.56	0.69
3:A:160:THR:OG1	3:A:161:TYR:N	2.24	0.69
3:A:263:ASP:N	3:A:263:ASP:OD1	2.21	0.69
3:A:492:PRO:O	3:A:494:ASP:N	2.19	0.69
3:A:551:ASN:O	3:A:552:ARG:C	2.28	0.69
3:A:599:VAL:N	3:A:615:PRO:HG3	2.07	0.69
4:B:266:ASP:CG	4:B:267:ASP:H	1.94	0.69
4:B:760:GLN:HG3	4:B:761:GLN:N	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1024:LYS:HB3	4:B:1087:PRO:HG2	1.74	0.69
4:B:1173:VAL:HG21	4:B:1190:TYR:CE1	2.27	0.69
5:D:105:THR:HG23	5:D:106:THR:O	1.91	0.69
6:E:202:LEU:HD11	6:E:235:ILE:CG2	2.22	0.69
6:E:414:SER:O	6:E:418:VAL:HG12	1.92	0.69
7:F:21:LEU:HD22	7:F:66:SER:HB3	1.74	0.69
8:G:318:LEU:HD13	8:G:390:ARG:O	1.93	0.69
1:1:82:DT:OP2	1:1:82:DT:H6	1.74	0.69
1:1:87:DA:N6	2:2:38:DT:C4	2.59	0.69
3:A:25:PHE:CG	3:A:26:LEU:N	2.59	0.69
3:A:60:THR:O	3:A:62:LYS:N	2.24	0.69
3:A:223:ILE:O	3:A:225:LYS:N	2.25	0.69
3:A:491:ALA:HB3	3:A:527:VAL:HA	1.74	0.69
3:A:597:ASP:CG	3:A:662:ARG:NH1	2.46	0.69
3:A:608:VAL:HG23	3:A:608:VAL:O	1.90	0.69
3:A:797:ARG:HG3	3:A:798:ASP:H	1.55	0.69
3:A:912:VAL:CG2	3:A:914:PHE:CE1	2.75	0.69
4:B:251:PRO:HG2	4:B:254:LYS:HZ1	1.57	0.69
4:B:655:GLU:O	4:B:668:ASN:ND2	2.25	0.69
4:B:983:GLU:HG3	4:B:984:ASP:O	1.92	0.69
5:C:155:ARG:HD3	5:C:159:THR:HB	1.72	0.69
6:E:496:ASN:N	6:E:496:ASN:OD1	2.17	0.69
9:X:56:ARG:NH2	9:X:129:ARG:NH2	2.39	0.69
3:A:98:PRO:HA	3:A:113:GLU:CB	2.22	0.69
3:A:107:GLY:H	4:B:557:GLN:HB3	1.57	0.69
3:A:328:VAL:O	3:A:329:GLY:C	2.29	0.69
3:A:572:PRO:HB3	3:A:978:TYR:CZ	2.28	0.69
3:A:592:SER:OG	3:A:666:GLY:N	2.25	0.69
3:A:1036:GLU:O	3:A:1039:THR:N	2.24	0.69
3:A:1049:ASN:HA	8:G:309:PRO:HB3	1.74	0.69
4:B:93:LYS:HZ1	4:B:375:ASP:CA	2.04	0.69
4:B:558:GLY:C	4:B:559:ARG:HD3	2.12	0.69
4:B:653:TYR:CE1	4:B:670:GLY:C	2.66	0.69
4:B:695:ASP:OD2	4:B:734:PRO:HB3	1.93	0.69
4:B:760:GLN:CG	4:B:764:ARG:HE	2.04	0.69
5:C:19:HIS:HB2	5:C:200:THR:H	1.57	0.69
5:D:171:MET:SD	5:D:171:MET:C	2.70	0.69
5:D:205:SER:HG	5:D:206:PRO:CD	2.05	0.69
6:E:47:TYR:CD1	8:G:232:PRO:HD3	2.26	0.69
6:E:69:TRP:HD1	6:E:93:VAL:HG12	1.54	0.69
8:G:124:LEU:C	8:G:126:ARG:H	1.95	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:187:GLY:O	8:G:188:SER:C	2.30	0.69
8:G:313:VAL:HG13	8:G:314:SER:N	2.07	0.69
9:X:47:LEU:CD1	9:X:52:VAL:HG23	2.18	0.69
9:X:154:LEU:C	9:X:157:CYS:SG	2.71	0.69
9:Y:78:LEU:CG	9:Y:88:ARG:HD2	2.15	0.69
1:1:62:DT:OP2	1:1:62:DT:C6	2.46	0.69
3:A:77:PRO:O	3:A:78:LYS:HE2	1.93	0.69
3:A:510:VAL:O	3:A:516:PHE:HA	1.93	0.69
4:B:7:VAL:HG13	6:E:522:ALA:HA	1.74	0.69
4:B:68:ALA:CB	4:B:419:LYS:HE2	2.17	0.69
4:B:96:ASP:HA	4:B:423:LEU:H	1.57	0.69
4:B:304:ALA:CA	6:E:500:PRO:HA	2.21	0.69
4:B:483:LEU:HD23	4:B:969:GLY:HA3	1.73	0.69
4:B:792:ARG:HG3	4:B:794:GLN:N	2.06	0.69
4:B:936:GLU:OE2	4:B:937:SER:N	2.24	0.69
5:C:64:GLU:O	5:C:76:LEU:HD11	1.91	0.69
5:C:77:GLU:OE2	5:C:78:ILE:N	2.25	0.69
5:C:85:VAL:HA	5:C:125:GLN:OE1	1.91	0.69
5:D:64:GLU:O	5:D:76:LEU:HD11	1.91	0.69
6:E:594:ARG:HB2	6:E:603:SER:H	1.58	0.69
9:X:57:VAL:HG22	9:X:58:TYR:N	2.06	0.69
9:Y:46:PHE:C	9:Y:100:LEU:HD12	2.12	0.69
2:2:57:DT:H4'	2:2:58:DA:H5'	1.73	0.69
3:A:140:GLN:HE21	3:A:326:ARG:HE	1.41	0.69
3:A:199:LEU:CD2	3:A:229:PHE:HE2	1.88	0.69
3:A:688:VAL:HG22	3:A:689:ALA:N	2.07	0.69
3:A:748:LEU:N	3:A:751:LEU:CD1	2.25	0.69
4:B:519:HIS:H	4:B:868:GLY:H	1.39	0.69
4:B:648:VAL:HG21	4:B:661:VAL:HB	1.74	0.69
4:B:800:GLU:CG	4:B:801:GLN:H	2.06	0.69
4:B:1115:GLN:O	4:B:1116:LYS:C	2.31	0.69
5:C:83:LYS:HZ1	5:C:168:SER:HA	1.55	0.69
5:D:123:PRO:O	5:D:124:THR:HB	1.92	0.69
5:D:186:ASP:OD1	5:D:190:PRO:HA	1.92	0.69
6:E:220:LYS:CD	6:E:223:LYS:CE	2.63	0.69
6:E:530:GLY:HA3	6:E:550:ILE:HG22	1.73	0.69
9:Y:49:LYS:O	9:Y:99:GLU:N	2.26	0.69
3:A:912:VAL:CG2	3:A:914:PHE:HE1	2.05	0.69
3:A:968:PHE:CE1	4:B:48:GLY:CA	2.76	0.69
4:B:360:PRO:HD2	4:B:393:GLY:O	1.92	0.69
4:B:443:LYS:O	4:B:996:LEU:HD13	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:648:VAL:CG1	4:B:661:VAL:HG12	2.19	0.69
4:B:918:ALA:HA	4:B:941:VAL:O	1.91	0.69
4:B:927:GLU:HA	4:B:933:PHE:HE1	1.56	0.69
4:B:1237:GLU:O	4:B:1241:ILE:N	2.26	0.69
5:D:142:ILE:HG22	5:D:143:GLU:N	2.06	0.69
6:E:76:TYR:CD2	6:E:81:HIS:NE2	2.61	0.69
6:E:206:ALA:O	6:E:207:GLU:HG3	1.92	0.69
6:E:451:GLY:C	6:E:452:ARG:HG3	2.13	0.69
6:E:572:GLU:HG2	6:E:572:GLU:O	1.87	0.69
8:G:83:ARG:NE	8:G:86:LEU:HD23	2.07	0.69
8:G:302:ILE:CG2	8:G:303:GLU:H	2.06	0.69
9:Y:78:LEU:HD11	9:Y:88:ARG:CZ	2.21	0.69
3:A:454:ASN:O	3:A:456:TYR:N	2.25	0.69
3:A:574:VAL:O	3:A:574:VAL:HG13	1.91	0.69
3:A:615:PRO:O	3:A:617:ALA:N	2.26	0.69
3:A:791:ILE:HG12	8:G:376:LEU:CD1	2.22	0.69
4:B:71:GLU:CA	4:B:74:ARG:HH11	2.05	0.69
4:B:97:THR:O	4:B:101:THR:HG23	1.93	0.69
4:B:144:ARG:NH2	4:B:163:PHE:CE2	2.60	0.69
4:B:174:ILE:HA	4:B:177:TYR:HD2	1.57	0.69
4:B:208:ILE:N	4:B:208:ILE:HD12	2.08	0.69
4:B:330:LEU:HD12	4:B:1011:LEU:CD1	2.22	0.69
4:B:360:PRO:HD2	4:B:393:GLY:N	2.08	0.69
4:B:401:GLU:O	4:B:402:ILE:HD13	1.92	0.69
4:B:522:VAL:HG23	4:B:524:ARG:N	2.05	0.69
4:B:563:LEU:HA	4:B:573:ASN:HD22	1.58	0.69
4:B:573:ASN:HB2	4:B:590:GLU:HB3	1.74	0.69
4:B:596:TYR:HD1	4:B:744:PHE:HB3	1.58	0.69
4:B:630:LEU:HA	4:B:743:GLU:HA	1.74	0.69
4:B:1145:VAL:HG13	4:B:1146:ARG:N	2.07	0.69
4:B:1238:ASN:O	4:B:1242:GLY:N	2.25	0.69
5:C:219:ASP:HB3	5:C:220:LEU:HD12	1.73	0.69
5:D:13:THR:HG22	5:D:206:PRO:HD2	1.74	0.69
5:D:77:GLU:OE2	5:D:78:ILE:N	2.25	0.69
5:D:199:TRP:CD1	5:D:199:TRP:N	2.57	0.69
5:D:205:SER:OG	5:D:207:GLN:NE2	2.24	0.69
5:D:224:LEU:HD23	5:D:224:LEU:O	1.92	0.69
6:E:212:GLU:O	6:E:215:SER:N	2.26	0.69
6:E:225:ILE:O	6:E:228:LEU:HB2	1.92	0.69
6:E:263:ASP:OD1	6:E:263:ASP:N	2.20	0.69
6:E:546:GLN:O	6:E:547:GLN:NE2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:163:LEU:CG	8:G:164:ARG:H	2.04	0.69
1:1:85:DG:C2	1:1:86:DG:C4	2.80	0.69
2:2:39:DT:H6	2:2:39:DT:OP2	1.76	0.69
3:A:520:THR:OG1	3:A:522:GLU:OE1	2.09	0.69
4:B:111:THR:HA	4:B:350:ARG:HD3	1.75	0.69
4:B:283:ARG:CG	4:B:288:CYS:SG	2.81	0.69
4:B:687:LYS:HG3	4:B:739:ARG:HD3	1.74	0.69
5:C:19:HIS:NE2	5:C:202:GLY:HA2	2.08	0.69
5:C:72:ARG:HG3	5:C:73:GLU:HG3	1.75	0.69
5:C:97:GLY:HA3	5:C:114:LEU:HG	1.75	0.69
6:E:386:PRO:O	6:E:387:PHE:C	2.26	0.69
9:X:108:VAL:CG2	9:X:122:MET:CE	2.70	0.69
9:X:203:ILE:HD13	9:X:210:ILE:HG23	1.73	0.69
9:Y:162:VAL:HG21	9:Y:171:ASP:CB	2.20	0.69
2:2:59:DG:C6	2:2:60:DC:C4	2.81	0.69
3:A:103:ASN:HD21	3:A:108:ASP:HB2	1.57	0.69
3:A:623:ASP:OD2	3:A:630:GLN:NE2	2.25	0.69
3:A:717:ILE:HG22	3:A:718:HIS:N	2.08	0.69
4:B:539:ILE:N	4:B:865:ILE:HD12	2.07	0.69
4:B:631:TRP:NE1	4:B:633:PRO:CA	2.55	0.69
4:B:774:LEU:HA	4:B:790:LEU:HA	1.72	0.69
4:B:982:ILE:HG22	4:B:983:GLU:N	2.07	0.69
5:C:119:GLU:OE1	5:C:119:GLU:N	2.26	0.69
5:D:67:THR:OG1	5:D:68:VAL:N	2.21	0.69
5:D:107:ILE:CD1	5:D:136:LEU:CD2	2.65	0.69
6:E:309:ALA:O	6:E:310:VAL:C	2.30	0.69
8:G:163:LEU:CD1	8:G:164:ARG:CG	2.66	0.69
9:X:131:LEU:CG	9:X:135:MET:HE3	2.22	0.69
9:Y:34:ILE:HG22	9:Y:45:TYR:CE1	2.27	0.69
9:Y:142:HIS:CE1	9:Y:144:ASP:HB3	2.28	0.69
1:1:68:DT:H3	2:2:59:DG:N2	1.88	0.68
1:1:113:DT:C4	2:2:13:DA:N1	2.62	0.68
3:A:251:LEU:O	3:A:255:GLN:OE1	2.10	0.68
3:A:556:GLY:O	3:A:557:SER:C	2.27	0.68
3:A:590:ILE:HG23	3:A:590:ILE:O	1.93	0.68
3:A:900:GLU:O	3:A:903:LEU:N	2.26	0.68
3:A:1077:LEU:CA	3:A:1082:LEU:HD12	2.22	0.68
4:B:88:VAL:N	4:B:89:GLU:OE1	2.26	0.68
4:B:203:VAL:HG21	4:B:1197:ILE:O	1.92	0.68
4:B:440:LYS:HB3	4:B:998:VAL:HG22	1.76	0.68
4:B:723:ARG:HD2	4:B:738:SER:CB	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:864:THR:HG23	4:B:864:THR:O	1.91	0.68
5:C:59:ALA:HA	5:C:162:ASP:CG	2.13	0.68
5:D:28:LEU:HB2	5:D:192:ASP:CB	2.23	0.68
6:E:124:TYR:CD1	6:E:127:ILE:HD12	2.27	0.68
6:E:144:SER:CA	6:E:163:SER:HA	2.21	0.68
6:E:389:ILE:O	6:E:392:LEU:N	2.25	0.68
8:G:113:LEU:O	8:G:116:VAL:HB	1.93	0.68
9:X:69:LEU:HA	9:X:70:ARG:HH11	1.58	0.68
1:1:102:DA:C6	1:1:103:DA:C6	2.81	0.68
2:2:38:DT:H2"	2:2:39:DT:OP2	1.92	0.68
2:2:50:DG:C6	2:2:51:DT:C4	2.81	0.68
3:A:252:GLY:HA2	3:A:255:GLN:HE22	1.57	0.68
3:A:617:ALA:HA	3:A:620:LYS:N	2.07	0.68
3:A:968:PHE:CZ	4:B:48:GLY:CA	2.76	0.68
4:B:106:LYS:HE2	4:B:138:ARG:HD3	1.75	0.68
4:B:356:THR:HG23	4:B:411:TYR:HD2	1.58	0.68
4:B:700:VAL:HG13	4:B:703:ARG:O	1.91	0.68
4:B:854:GLN:CA	4:B:855:THR:HG23	2.23	0.68
4:B:906:ALA:HB3	4:B:966:ILE:O	1.94	0.68
4:B:908:LEU:H	4:B:964:VAL:HB	1.56	0.68
5:C:207:GLN:CD	5:C:207:GLN:N	2.41	0.68
9:X:28:PHE:HB3	9:X:32:LYS:HD2	1.74	0.68
9:X:42:GLU:CA	9:X:78:LEU:HD12	2.18	0.68
1:1:113:DT:H1'	1:1:114:DC:OP1	1.94	0.68
1:1:115:DA:C8	1:1:116:DC:C4	2.81	0.68
3:A:489:ARG:O	3:A:525:ASP:HB2	1.92	0.68
3:A:623:ASP:HB3	3:A:629:SER:HB2	1.76	0.68
3:A:998:TYR:O	3:A:1006:LEU:HD22	1.94	0.68
4:B:675:THR:HB	4:B:677:LYS:HZ3	1.58	0.68
4:B:688:PRO:HG2	4:B:739:ARG:CG	2.24	0.68
4:B:1225:ILE:HG22	4:B:1225:ILE:O	1.93	0.68
5:C:211:SER:CA	5:D:225:LYS:HA	2.10	0.68
8:G:114:GLU:HA	8:G:117:ARG:HG2	1.75	0.68
3:A:66:HIS:O	3:A:67:PHE:HD1	1.74	0.68
3:A:97:VAL:HG12	3:A:98:PRO:O	1.93	0.68
3:A:748:LEU:H	3:A:751:LEU:HD11	1.55	0.68
3:A:873:TYR:HE2	3:A:962:GLY:HA2	1.59	0.68
4:B:72:GLU:HG2	4:B:418:VAL:CB	2.23	0.68
4:B:96:ASP:HB3	4:B:423:LEU:N	2.09	0.68
4:B:1077:VAL:CG1	4:B:1081:GLN:HB3	2.24	0.68
6:E:147:VAL:HG21	6:E:158:TYR:HA	1.72	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:588:TYR:HB2	6:E:591:ARG:H	1.58	0.68
8:G:88:GLU:HA	8:G:91:ARG:CZ	2.22	0.68
9:Y:27:THR:OG1	9:Y:99:GLU:HA	1.93	0.68
9:Y:44:VAL:HG11	9:Y:46:PHE:CZ	2.28	0.68
1:1:61:DT:H2"	1:1:62:DT:C7	2.24	0.68
2:2:36:DT:C1'	2:2:37:DT:H5'	2.23	0.68
3:A:27:LEU:HD13	3:A:28:PRO:HD2	1.75	0.68
3:A:198:LEU:HD21	3:A:298:LEU:CB	2.23	0.68
3:A:254:GLN:OE1	3:A:255:GLN:N	2.27	0.68
3:A:899:PHE:CZ	4:B:53:VAL:HG21	2.27	0.68
4:B:72:GLU:HB2	4:B:419:LYS:CB	2.21	0.68
4:B:96:ASP:O	4:B:422:GLN:HA	1.92	0.68
4:B:412:ILE:HA	4:B:424:LEU:HD22	1.75	0.68
4:B:640:ASN:HA	4:B:682:ARG:HA	1.75	0.68
5:D:8:CYS:HA	5:D:23:PHE:HD1	1.58	0.68
6:E:60:GLU:HG2	6:E:64:GLY:O	1.93	0.68
6:E:306:LEU:HD23	6:E:306:LEU:C	2.14	0.68
8:G:214:ILE:O	8:G:215:ARG:C	2.29	0.68
8:G:329:LEU:CD2	8:G:381:ARG:HH22	2.07	0.68
9:X:37:PRO:CG	9:X:57:VAL:CG1	2.71	0.68
9:X:51:ALA:HB3	9:X:95:PHE:HD2	1.58	0.68
9:X:170:ILE:HG22	9:X:171:ASP:N	2.09	0.68
9:Y:55:SER:HA	9:Y:65:THR:CA	2.16	0.68
1:1:61:DT:H2"	1:1:62:DT:OP2	1.91	0.68
3:A:53:PHE:HD2	3:A:340:LEU:HD13	1.56	0.68
3:A:435:THR:HG22	3:A:436:PRO:HD2	1.74	0.68
3:A:558:ASN:N	3:A:558:ASN:OD1	2.14	0.68
4:B:43:TYR:HD2	6:E:520:LEU:HD12	1.57	0.68
4:B:100:GLY:HA2	4:B:424:LEU:HG	1.75	0.68
4:B:513:THR:HG23	4:B:874:THR:HB	1.76	0.68
4:B:646:LEU:HD23	4:B:662:LYS:N	2.09	0.68
4:B:913:LYS:NZ	4:B:914:PRO:HD2	2.09	0.68
4:B:1011:LEU:O	4:B:1012:PRO:C	2.31	0.68
6:E:230:VAL:O	6:E:233:ASN:HB3	1.93	0.68
6:E:310:VAL:O	6:E:313:LEU:HB3	1.93	0.68
6:E:484:GLN:O	6:E:487:ALA:N	2.26	0.68
8:G:133:TRP:HA	8:G:135:GLU:O	1.93	0.68
8:G:162:ASN:C	8:G:163:LEU:HG	2.14	0.68
9:Y:48:LEU:H	9:Y:100:LEU:HA	1.57	0.68
1:1:61:DT:C2	1:1:62:DT:C2	2.82	0.68
1:1:74:DT:C2	1:1:75:DA:C8	2.81	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:32:GLU:O	3:A:33:ILE:C	2.30	0.68
3:A:135:ARG:NE	3:A:384:SER:OG	2.27	0.68
3:A:144:SER:OG	3:A:324:ARG:HB2	1.93	0.68
3:A:449:THR:OG1	3:A:450:HIS:N	2.19	0.68
3:A:497:VAL:O	3:A:497:VAL:HG13	1.94	0.68
3:A:607:ARG:HD3	3:A:636:ARG:NH2	2.08	0.68
3:A:957:ILE:HD12	3:A:957:ILE:N	2.06	0.68
4:B:69:ALA:HB2	4:B:101:THR:HG21	1.74	0.68
4:B:146:LEU:HB3	4:B:154:ILE:HG22	1.75	0.68
4:B:303:LEU:HD13	6:E:502:THR:CA	2.12	0.68
4:B:550:THR:HG22	4:B:551:VAL:H	1.57	0.68
4:B:609:VAL:HG23	4:B:628:THR:O	1.94	0.68
4:B:678:ASN:OD1	4:B:680:ILE:O	2.11	0.68
4:B:797:LEU:HD12	4:B:832:LEU:HD13	1.75	0.68
5:C:4:PHE:CD2	5:D:223:PRO:HG3	2.29	0.68
6:E:154:GLU:HG3	6:E:155:THR:HG23	1.76	0.68
8:G:188:SER:O	8:G:189:LEU:C	2.29	0.68
9:Y:55:SER:HB3	9:Y:65:THR:HG22	1.75	0.68
3:A:374:ILE:HG13	3:A:375:LYS:N	2.09	0.68
3:A:596:GLY:HA3	3:A:615:PRO:O	1.94	0.68
3:A:729:THR:CG2	3:A:731:LEU:H	2.06	0.68
4:B:822:LEU:CA	4:B:826:ASP:HA	2.24	0.68
4:B:1079:ALA:C	4:B:1081:GLN:N	2.46	0.68
4:B:1091:HIS:O	4:B:1094:LEU:HG	1.94	0.68
5:D:108:THR:HA	5:D:127:VAL:HG23	1.76	0.68
7:F:32:THR:O	7:F:33:VAL:C	2.29	0.68
8:G:184:ILE:HD13	8:G:184:ILE:N	2.03	0.68
9:X:27:THR:OG1	9:X:98:VAL:O	2.10	0.68
9:X:114:GLU:HB2	9:X:118:LEU:CD1	2.24	0.68
9:Y:69:LEU:HA	9:Y:70:ARG:HH11	1.58	0.68
3:A:58:ASP:HA	3:A:352:THR:OG1	1.94	0.68
3:A:598:VAL:HG12	3:A:661:GLU:N	2.08	0.68
3:A:789:ARG:HB3	3:A:789:ARG:CZ	2.17	0.68
3:A:821:THR:H	3:A:824:GLN:HB2	1.58	0.68
4:B:43:TYR:O	4:B:44:ALA:C	2.27	0.68
5:D:210:LEU:O	5:D:213:ALA:N	2.27	0.68
6:E:306:LEU:O	6:E:309:ALA:N	2.26	0.68
7:F:37:ASN:CG	7:F:38:ARG:N	2.46	0.68
9:Y:129:ARG:HA	9:Y:132:GLN:HB2	1.74	0.68
1:1:84:DA:N1	2:2:41:DC:N3	2.42	0.68
2:2:31:DA:C6	2:2:32:DA:C5	2.82	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:50:DG:C6	2:2:51:DT:C5	2.82	0.68
3:A:49:GLU:CD	3:A:49:GLU:C	2.52	0.68
3:A:964:THR:OG1	3:A:965:GLY:N	2.26	0.68
3:A:1075:ARG:O	3:A:1076:GLU:C	2.28	0.68
4:B:125:MET:CG	6:E:515:LEU:HD23	2.00	0.68
4:B:366:ARG:NH2	4:B:377:LEU:HD23	2.09	0.68
4:B:367:THR:O	4:B:370:THR:N	2.26	0.68
4:B:809:ALA:O	4:B:813:ALA:N	2.26	0.68
4:B:1037:LYS:CD	4:B:1052:ILE:HG22	2.21	0.68
5:D:77:GLU:CA	5:D:80:MET:HG2	2.20	0.68
6:E:140:VAL:HG23	6:E:141:TYR:CD2	2.28	0.68
6:E:217:LYS:O	6:E:221:ARG:CZ	2.41	0.68
7:F:36:ALA:O	7:F:38:ARG:N	2.27	0.68
8:G:302:ILE:HG22	8:G:303:GLU:H	1.58	0.68
9:X:47:LEU:HD12	9:X:99:GLU:O	1.94	0.68
1:1:77:DA:N1	2:2:50:DG:C6	2.62	0.67
1:1:80:DA:N6	2:2:46:DT:C4	2.43	0.67
2:2:7:DT:C4	2:2:8:DC:N4	2.62	0.67
3:A:334:ASN:O	3:A:335:GLN:C	2.29	0.67
3:A:343:LEU:HD23	3:A:343:LEU:C	2.14	0.67
3:A:498:ASP:H	3:A:504:ILE:HG13	1.59	0.67
3:A:596:GLY:N	3:A:618:SER:OG	2.28	0.67
3:A:765:ALA:HB1	3:A:808:ASN:HA	1.75	0.67
4:B:32:MET:O	4:B:33:ALA:C	2.33	0.67
4:B:111:THR:OG1	4:B:112:HIS:N	2.24	0.67
4:B:347:GLN:HE21	4:B:356:THR:HG22	1.58	0.67
4:B:517:THR:C	4:B:518:ILE:HG13	2.14	0.67
4:B:714:LEU:HD11	4:B:736:LEU:CD2	2.23	0.67
4:B:760:GLN:HE22	4:B:806:GLU:CB	2.04	0.67
4:B:764:ARG:HG3	4:B:807:HIS:CD2	2.29	0.67
5:C:99:LEU:HD11	5:C:101:VAL:CG2	2.24	0.67
5:C:183:VAL:HG23	5:C:192:ASP:N	2.09	0.67
5:C:227:ILE:HD13	5:D:5:GLN:HA	1.75	0.67
5:D:98:ARG:HH11	5:D:98:ARG:N	1.92	0.67
6:E:301:ASN:O	6:E:304:ARG:HB3	1.94	0.67
1:1:89:DA:N6	2:2:37:DT:C5	2.57	0.67
1:1:89:DA:C5	1:1:90:DA:C5	2.82	0.67
2:2:60:DC:H3'	2:2:61:DT:H71	1.77	0.67
3:A:280:LYS:HG3	3:A:281:LEU:HG	1.76	0.67
3:A:391:ASN:O	3:A:394:ALA:N	2.24	0.67
3:A:599:VAL:CG2	3:A:608:VAL:HA	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1039:THR:O	3:A:1043:ASP:N	2.27	0.67
4:B:98:TRP:CD2	4:B:158:PRO:HG3	2.29	0.67
4:B:481:TRP:HA	4:B:970:ARG:O	1.94	0.67
4:B:496:LEU:HD22	4:B:892:GLU:HG2	1.75	0.67
4:B:678:ASN:HD21	4:B:682:ARG:HG2	1.58	0.67
7:F:55:MET:HB3	7:F:60:ARG:HE	1.60	0.67
1:1:80:DA:H2"	1:1:81:DT:H2'	1.76	0.67
1:1:107:DG:C2	1:1:108:DA:C2	2.83	0.67
2:2:27:DA:O3'	8:G:237:GLU:OE1	2.12	0.67
2:2:30:DG:C5	2:2:31:DA:C8	2.82	0.67
3:A:112:GLN:NE2	3:A:362:ALA:HB2	2.09	0.67
3:A:184:TRP:CD1	3:A:193:LEU:CD1	2.77	0.67
3:A:251:LEU:C	3:A:255:GLN:OE1	2.33	0.67
3:A:993:ARG:HD3	6:E:355:ASP:CB	2.24	0.67
3:A:1015:GLN:NE2	6:E:359:ARG:CG	2.58	0.67
4:B:146:LEU:HB3	4:B:154:ILE:CG2	2.24	0.67
4:B:361:ARG:HG3	4:B:390:ARG:CG	2.21	0.67
4:B:505:GLU:O	4:B:508:GLY:N	2.28	0.67
4:B:766:ILE:HG22	4:B:832:LEU:HD23	1.77	0.67
5:C:92:SER:HB2	5:C:144:ARG:NE	2.10	0.67
6:E:206:ALA:HA	6:E:210:ARG:NE	2.09	0.67
6:E:370:ILE:CG2	6:E:457:HIS:CE1	2.77	0.67
6:E:388:VAL:HG13	6:E:389:ILE:N	2.08	0.67
6:E:530:GLY:CA	6:E:550:ILE:HG22	2.24	0.67
6:E:538:LEU:O	6:E:540:ASP:N	2.27	0.67
6:E:538:LEU:C	6:E:539:ASP:CG	2.52	0.67
8:G:89:ILE:O	8:G:92:ILE:HG22	1.95	0.67
8:G:110:LEU:CD1	8:G:148:LEU:O	2.38	0.67
8:G:359:ASN:OD1	8:G:361:THR:HG23	1.93	0.67
9:X:176:HIS:CG	9:X:190:VAL:HG22	2.25	0.67
1:1:67:DC:H2'	1:1:68:DT:O4'	1.94	0.67
2:2:12:DG:H2'	2:2:13:DA:O4'	1.94	0.67
3:A:168:ASN:N	3:A:269:LEU:O	2.27	0.67
3:A:294:SER:O	3:A:297:ILE:N	2.27	0.67
4:B:304:ALA:N	6:E:500:PRO:HA	2.09	0.67
4:B:596:TYR:HA	4:B:744:PHE:CD2	2.29	0.67
5:C:40:LEU:O	5:C:41:ARG:C	2.29	0.67
5:C:98:ARG:N	5:C:98:ARG:HH11	1.92	0.67
5:C:120:VAL:HG12	5:C:122:ASP:N	2.09	0.67
5:D:120:VAL:HG12	5:D:121:ILE:C	2.15	0.67
8:G:133:TRP:C	8:G:135:GLU:N	2.46	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:119:DA:H2"	1:1:120:DT:C4	2.30	0.67
3:A:198:LEU:HG	3:A:198:LEU:O	1.95	0.67
3:A:1028:PHE:CE1	6:E:438:ARG:CG	2.75	0.67
3:A:1054:ALA:HA	3:A:1059:LYS:NZ	2.09	0.67
4:B:17:ILE:O	4:B:20:ALA:N	2.28	0.67
4:B:165:GLU:OE1	4:B:165:GLU:N	2.27	0.67
4:B:323:ILE:O	4:B:326:PRO:HD2	1.94	0.67
4:B:921:LEU:HA	4:B:938:GLY:C	2.14	0.67
4:B:1028:ILE:HA	4:B:1083:LEU:HB2	1.76	0.67
4:B:1028:ILE:HG22	4:B:1084:SER:H	1.58	0.67
5:C:76:LEU:O	5:C:79:ILE:HG12	1.95	0.67
5:C:214:ALA:CB	5:D:224:LEU:HD22	2.24	0.67
5:D:76:LEU:O	5:D:79:ILE:HG12	1.95	0.67
6:E:131:MET:CB	6:E:136:VAL:HG23	2.25	0.67
7:F:29:TYR:O	7:F:32:THR:N	2.27	0.67
8:G:131:SER:C	8:G:133:TRP:N	2.45	0.67
9:Y:43:ARG:O	9:Y:76:GLY:HA2	1.95	0.67
1:1:85:DG:N3	1:1:86:DG:H5'	2.10	0.67
3:A:413:GLU:O	3:A:415:ALA:N	2.28	0.67
3:A:607:ARG:HG2	3:A:609:ARG:HD2	1.76	0.67
3:A:936:LEU:O	3:A:937:GLN:C	2.31	0.67
4:B:82:ARG:CZ	4:B:924:ALA:HB3	2.25	0.67
4:B:286:LEU:HG	4:B:1142:GLU:HG3	1.75	0.67
4:B:597:ARG:HA	4:B:788:VAL:O	1.95	0.67
4:B:601:GLY:O	4:B:633:PRO:HA	1.93	0.67
4:B:760:GLN:HE21	4:B:764:ARG:HB2	1.58	0.67
4:B:922:ILE:HD11	4:B:928:LEU:HD22	1.75	0.67
4:B:928:LEU:HD11	4:B:934:ALA:HB3	1.76	0.67
4:B:1107:TYR:CZ	4:B:1174:GLU:HG3	2.28	0.67
5:C:123:PRO:O	5:C:124:THR:HB	1.92	0.67
5:C:210:LEU:O	5:C:213:ALA:N	2.27	0.67
6:E:533:LYS:HB2	6:E:556:VAL:HG13	1.75	0.67
9:Y:30:ARG:HB2	9:Y:97:PRO:HD3	1.75	0.67
9:Y:49:LYS:HB2	9:Y:99:GLU:HB3	1.77	0.67
1:1:94:DT:C5'	6:E:47:TYR:OH	2.41	0.67
2:2:33:DA:C2	2:2:34:DA:C4	2.82	0.67
3:A:269:LEU:HG	3:A:273:GLY:HA3	1.77	0.67
3:A:558:ASN:O	3:A:559:MET:C	2.29	0.67
3:A:606:ILE:H	3:A:609:ARG:CZ	2.08	0.67
3:A:609:ARG:CA	3:A:635:ILE:HG13	2.25	0.67
3:A:933:HIS:O	3:A:934:GLY:C	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:953:ASP:HB3	3:A:956:LYS:HG3	1.77	0.67
3:A:1098:LEU:O	3:A:1099:ASP:OD1	2.12	0.67
4:B:811:PRO:HG2	4:B:812:LEU:HD12	1.77	0.67
5:D:28:LEU:HB2	5:D:192:ASP:HB2	1.76	0.67
5:D:120:VAL:HG12	5:D:122:ASP:N	2.09	0.67
6:E:254:PRO:O	6:E:257:ARG:HG3	1.95	0.67
6:E:276:TYR:O	6:E:277:ARG:C	2.29	0.67
1:1:85:DG:O6	2:2:40:DC:C4	2.48	0.67
1:1:115:DA:C6	2:2:10:DG:C6	2.83	0.67
2:2:45:DA:H3'	2:2:45:DA:P	2.34	0.67
3:A:58:ASP:OD2	3:A:62:LYS:HB3	1.94	0.67
3:A:68:LEU:HD12	3:A:70:HIS:CD2	2.29	0.67
3:A:303:TYR:O	3:A:307:LEU:HD23	1.95	0.67
3:A:606:ILE:O	3:A:609:ARG:NE	2.26	0.67
3:A:990:ILE:O	3:A:991:HIS:CG	2.48	0.67
4:B:37:LYS:CG	4:B:38:ASP:N	2.53	0.67
4:B:634:GLU:OE1	4:B:781:ARG:CZ	2.43	0.67
4:B:653:TYR:HD1	4:B:671:VAL:CB	2.07	0.67
4:B:671:VAL:O	4:B:687:LYS:HB2	1.95	0.67
4:B:764:ARG:NH1	4:B:834:ILE:HD11	2.08	0.67
4:B:1128:VAL:O	4:B:1131:SER:HB2	1.94	0.67
5:C:20:TYR:HB2	5:C:199:TRP:CZ3	2.30	0.67
5:D:10:GLU:HG3	5:D:10:GLU:O	1.94	0.67
6:E:613:VAL:HG13	6:E:614:ILE:N	2.08	0.67
9:X:171:ASP:O	9:X:172:LEU:HG	1.95	0.67
1:1:87:DA:H2"	1:1:88:DA:C5'	2.24	0.67
1:1:98:DG:C4	1:1:99:DT:C4	2.83	0.67
2:2:66:DA:O4'	2:2:66:DA:N3	2.18	0.67
3:A:540:SER:OG	3:A:541:MET:HE1	1.94	0.67
3:A:616:THR:HA	3:A:635:ILE:HD11	1.76	0.67
3:A:1024:ALA:HA	6:E:438:ARG:HA	1.75	0.67
3:A:1091:THR:HB	3:A:1093:ALA:O	1.95	0.67
4:B:28:ARG:O	4:B:29:THR:C	2.25	0.67
4:B:29:THR:O	4:B:30:ALA:C	2.31	0.67
4:B:237:THR:O	4:B:240:LEU:N	2.27	0.67
4:B:459:VAL:O	4:B:475:ALA:HB2	1.95	0.67
4:B:565:THR:HA	4:B:571:VAL:CA	2.25	0.67
4:B:773:ARG:HB3	4:B:792:ARG:H	1.57	0.67
4:B:1221:THR:OG1	4:B:1222:GLU:HG3	1.93	0.67
5:C:86:ILE:C	5:C:121:ILE:HG12	2.15	0.67
6:E:404:ALA:O	6:E:405:LYS:C	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:614:ILE:O	6:E:617:LYS:N	2.28	0.67
8:G:204:TYR:CD2	8:G:208:THR:OG1	2.46	0.67
9:Y:196:ASP:HB3	9:Y:203:ILE:HG12	1.77	0.67
9:Y:196:ASP:OD1	9:Y:200:LYS:HD2	1.94	0.67
1:1:73:DA:C5	2:2:53:DT:O4	2.29	0.67
1:1:84:DA:N6	2:2:41:DC:N4	2.42	0.67
1:1:85:DG:C2	2:2:41:DC:N3	2.62	0.67
3:A:402:LEU:HD12	3:A:402:LEU:O	1.95	0.67
3:A:551:ASN:O	3:A:554:LEU:HB3	1.95	0.67
3:A:597:ASP:N	3:A:615:PRO:CA	2.57	0.67
4:B:358:LYS:HG2	4:B:410:ILE:HD11	1.72	0.67
4:B:360:PRO:HD2	4:B:393:GLY:H	1.60	0.67
6:E:370:ILE:HG22	6:E:457:HIS:ND1	2.10	0.67
6:E:576:VAL:HG12	6:E:586:VAL:CG2	2.24	0.67
8:G:110:LEU:CD1	8:G:152:ARG:H	2.07	0.67
8:G:112:GLU:O	8:G:115:ARG:N	2.28	0.67
8:G:186:GLU:O	8:G:187:GLY:C	2.32	0.67
8:G:320:GLU:OE1	8:G:320:GLU:N	2.28	0.67
8:G:338:ARG:HG2	8:G:343:LEU:HB3	1.75	0.67
1:1:59:DT:H2”	1:1:60:DT:H71	1.76	0.66
1:1:114:DC:H5’	1:1:114:DC:C2	2.30	0.66
1:1:118:DG:H1	2:2:7:DT:H3	1.42	0.66
2:2:38:DT:C2’	2:2:39:DT:H71	2.23	0.66
2:2:58:DA:H2’	2:2:58:DA:OP2	1.96	0.66
3:A:101:LEU:HB3	3:A:109:ILE:HG22	1.77	0.66
3:A:189:LYS:HG3	3:A:190:THR:N	2.08	0.66
3:A:271:ARG:HA	3:A:290:ARG:HH22	1.60	0.66
3:A:464:ARG:HB2	3:A:527:VAL:HG13	1.76	0.66
3:A:510:VAL:HG11	3:A:519:THR:CG2	2.25	0.66
3:A:576:THR:HG23	3:A:576:THR:O	1.93	0.66
3:A:590:ILE:CG2	3:A:669:LEU:HB2	2.20	0.66
3:A:615:PRO:HG2	3:A:616:THR:CG2	2.24	0.66
4:B:63:ARG:NH2	4:B:67:GLU:HB3	2.08	0.66
4:B:250:HIS:NE2	4:B:255:GLU:C	2.45	0.66
5:C:108:THR:CG2	5:C:124:THR:CA	2.73	0.66
5:D:35:THR:HA	5:D:38:ASN:CB	2.24	0.66
5:D:181:GLU:N	5:D:181:GLU:OE1	2.28	0.66
5:D:181:GLU:O	5:D:181:GLU:HG2	1.86	0.66
6:E:480:SER:HG	6:E:483:SER:N	1.88	0.66
9:X:43:ARG:CZ	9:X:108:VAL:HG23	2.25	0.66
9:Y:56:ARG:HB2	9:Y:90:TYR:CE1	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:88:DA:N6	2:2:37:DT:N3	2.43	0.66
3:A:31:ILE:O	3:A:33:ILE:N	2.29	0.66
3:A:98:PRO:HA	3:A:113:GLU:HB3	1.78	0.66
3:A:115:PHE:C	3:A:115:PHE:CD2	2.68	0.66
3:A:968:PHE:HD1	4:B:47:ALA:O	1.70	0.66
3:A:1007:GLY:HA3	6:E:353:ARG:NE	2.11	0.66
4:B:385:MET:H	4:B:405:THR:CA	2.04	0.66
4:B:627:GLY:H	4:B:628:THR:HG23	1.60	0.66
4:B:703:ARG:NH2	4:B:714:LEU:O	2.29	0.66
4:B:1140:HIS:O	4:B:1141:ILE:C	2.29	0.66
5:C:227:ILE:HD11	5:D:5:GLN:HB2	1.77	0.66
5:D:10:GLU:HB3	5:D:22:LYS:H	1.60	0.66
6:E:305:MET:O	6:E:306:LEU:C	2.28	0.66
6:E:407:LEU:CD1	6:E:412:ASP:HB2	2.25	0.66
6:E:425:GLY:O	6:E:427:PRO:HD3	1.95	0.66
6:E:490:LEU:N	6:E:490:LEU:HD23	2.11	0.66
7:F:64:GLU:OE1	7:F:68:GLU:HG3	1.95	0.66
8:G:302:ILE:CG2	8:G:303:GLU:N	2.58	0.66
8:G:323:GLU:O	8:G:327:ASP:N	2.25	0.66
8:G:335:ASP:OD1	8:G:339:LEU:CD2	2.42	0.66
9:X:55:SER:HA	9:X:65:THR:HA	1.76	0.66
9:X:77:VAL:HB	9:X:80:LEU:HD23	1.78	0.66
9:X:162:VAL:HG22	9:X:170:ILE:C	2.16	0.66
9:Y:43:ARG:HG3	9:Y:44:VAL:N	2.11	0.66
2:2:41:DC:C4'	2:2:42:DT:H5'	2.24	0.66
3:A:65:LEU:HA	3:A:102:LEU:CD2	2.25	0.66
3:A:1023:TRP:CE3	6:E:436:LEU:HD13	2.28	0.66
3:A:1087:HIS:CE1	6:E:11:TYR:CZ	2.84	0.66
4:B:93:LYS:CG	4:B:370:THR:HB	2.25	0.66
4:B:704:ASP:OD1	4:B:705:ASN:ND2	2.28	0.66
4:B:916:VAL:H	4:B:943:VAL:HG12	1.59	0.66
4:B:1117:VAL:O	4:B:1118:GLN:C	2.30	0.66
4:B:1159:ASP:HB2	4:B:1180:MET:HE3	1.74	0.66
5:C:13:THR:CG2	5:C:206:PRO:CG	2.73	0.66
9:X:75:PHE:HE2	9:X:100:LEU:CD2	2.05	0.66
9:Y:142:HIS:CE1	9:Y:147:SER:HB2	2.30	0.66
3:A:462:PRO:HB3	3:A:479:TYR:CE1	2.31	0.66
3:A:633:GLN:C	3:A:635:ILE:H	1.98	0.66
3:A:707:ARG:HA	3:A:710:GLN:OE1	1.95	0.66
3:A:901:CYS:O	3:A:902:LEU:C	2.31	0.66
3:A:1011:GLN:O	3:A:1012:GLN:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1032:TYR:O	3:A:1033:THR:C	2.31	0.66
4:B:180:ARG:O	4:B:183:LEU:N	2.28	0.66
4:B:244:VAL:HG23	4:B:244:VAL:O	1.95	0.66
4:B:413:VAL:N	4:B:424:LEU:HD22	2.10	0.66
4:B:542:ALA:HB3	4:B:832:LEU:C	2.16	0.66
4:B:548:GLN:HB2	4:B:753:PRO:CG	2.25	0.66
4:B:678:ASN:ND2	4:B:681:LEU:HA	2.10	0.66
4:B:792:ARG:HG3	4:B:794:GLN:H	1.59	0.66
4:B:896:ARG:HG2	4:B:987:LEU:N	2.10	0.66
4:B:1028:ILE:HG22	4:B:1082:PRO:C	2.16	0.66
5:D:171:MET:SD	5:D:172:PRO:N	2.69	0.66
8:G:103:LEU:O	8:G:104:ALA:C	2.33	0.66
8:G:329:LEU:HD22	8:G:381:ARG:HH22	1.60	0.66
9:X:108:VAL:HG13	9:X:112:LEU:HD13	1.76	0.66
9:X:149:LEU:HD13	9:X:193:LEU:HD11	1.76	0.66
9:Y:40:PRO:HG3	9:Y:87:ASP:HA	1.76	0.66
1:1:79:DA:H2"	1:1:80:DA:N3	2.09	0.66
2:2:59:DG:C5	2:2:60:DC:C4	2.84	0.66
3:A:1034:LEU:O	3:A:1038:LEU:HD23	1.95	0.66
4:B:93:LYS:HD2	4:B:370:THR:CB	2.22	0.66
4:B:93:LYS:CB	4:B:372:HIS:NE2	2.59	0.66
4:B:360:PRO:HG2	4:B:386:ILE:HG13	1.77	0.66
4:B:989:GLN:N	4:B:992:ASP:OD2	2.19	0.66
5:C:108:THR:HG23	5:C:124:THR:CA	2.25	0.66
5:D:210:LEU:O	5:D:211:SER:C	2.31	0.66
6:E:100:ARG:HG2	6:E:255:ASP:OD2	1.94	0.66
6:E:162:LEU:HA	6:E:166:GLN:HE21	1.61	0.66
6:E:499:SER:OG	6:E:501:ALA:N	2.28	0.66
8:G:172:LYS:O	8:G:176:ARG:HG2	1.93	0.66
8:G:254:GLY:O	8:G:257:PRO:HD3	1.96	0.66
8:G:322:LEU:O	8:G:325:VAL:HG12	1.94	0.66
1:1:121:DG:C1'	1:1:122:DC:H5'	2.24	0.66
2:2:46:DT:H2"	2:2:47:DT:OP2	1.95	0.66
2:2:57:DT:C2	2:2:58:DA:C2	2.83	0.66
3:A:110:LYS:HZ1	3:A:360:THR:HA	1.60	0.66
3:A:376:GLU:O	3:A:380:SER:N	2.24	0.66
3:A:552:ARG:CZ	3:A:892:ARG:CG	2.66	0.66
3:A:556:GLY:HA2	3:A:559:MET:HE2	1.77	0.66
3:A:686:ILE:CD1	3:A:882:ILE:HD11	2.25	0.66
4:B:463:LYS:CE	4:B:466:ARG:H	2.09	0.66
4:B:482:ILE:HG13	4:B:483:LEU:N	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:602:GLY:N	4:B:634:GLU:HG2	2.11	0.66
4:B:760:GLN:HG2	4:B:764:ARG:NE	2.08	0.66
4:B:858:GLU:OE2	4:B:869:SER:OG	2.10	0.66
4:B:1106:VAL:O	4:B:1109:CYS:SG	2.54	0.66
5:C:194:LEU:C	5:C:194:LEU:HD23	2.16	0.66
5:D:118:VAL:HG21	5:D:142:ILE:CG1	2.19	0.66
6:E:296:GLU:O	6:E:297:ILE:C	2.33	0.66
6:E:619:ILE:O	6:E:620:GLN:C	2.29	0.66
1:1:61:DT:C6	1:1:62:DT:C4	2.83	0.66
1:1:72:DT:H73	9:X:187:ARG:CZ	2.24	0.66
1:1:99:DT:C2	8:G:212:TRP:CZ3	2.84	0.66
2:2:45:DA:C4	2:2:46:DT:C2	2.83	0.66
3:A:49:GLU:OE1	3:A:50:LEU:N	2.29	0.66
3:A:606:ILE:H	3:A:609:ARG:NE	1.93	0.66
3:A:968:PHE:CD1	4:B:48:GLY:HA3	2.31	0.66
4:B:250:HIS:CD2	4:B:250:HIS:N	2.59	0.66
4:B:252:LYS:C	4:B:254:LYS:N	2.49	0.66
4:B:546:LEU:C	4:B:829:ARG:HA	2.16	0.66
4:B:929:ALA:N	4:B:932:ILE:O	2.26	0.66
4:B:1119:THR:O	4:B:1120:PHE:C	2.32	0.66
6:E:202:LEU:CG	6:E:235:ILE:CG2	2.73	0.66
9:X:145:MET:HB2	9:X:183:ILE:CG2	2.22	0.66
1:1:97:DT:C2	1:1:98:DG:C5	2.83	0.66
1:1:115:DA:C2	2:2:11:DT:N3	2.64	0.66
3:A:734:GLU:CG	3:A:772:LYS:NZ	2.48	0.66
3:A:1036:GLU:CD	3:A:1037:LEU:N	2.49	0.66
4:B:169:VAL:HG23	4:B:170:THR:N	2.11	0.66
4:B:359:LEU:CD2	4:B:384:ILE:O	2.41	0.66
4:B:643:ILE:H	4:B:680:ILE:HA	1.61	0.66
4:B:653:TYR:CD1	4:B:671:VAL:CB	2.79	0.66
5:C:47:ASN:N	5:C:47:ASN:OD1	2.19	0.66
5:C:120:VAL:HG12	5:C:121:ILE:C	2.15	0.66
6:E:314:ILE:HD12	6:E:314:ILE:N	2.00	0.66
6:E:388:VAL:O	6:E:389:ILE:C	2.32	0.66
8:G:249:LEU:CG	8:G:262:ILE:CD1	2.74	0.66
9:X:54:LEU:HD22	9:X:92:ALA:HB1	1.76	0.66
1:1:72:DT:C5	9:X:187:ARG:NH1	2.62	0.66
3:A:80:SER:OG	3:A:82:GLU:N	2.29	0.66
3:A:291:VAL:HG12	3:A:292:LEU:N	2.10	0.66
3:A:454:ASN:N	3:A:458:PHE:O	2.29	0.66
3:A:756:ILE:CG2	3:A:757:ILE:N	2.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1015:GLN:NE2	6:E:359:ARG:CD	2.55	0.66
5:C:68:VAL:HG13	5:C:71:VAL:HG11	1.78	0.66
5:D:26:GLU:HB3	5:D:27:PRO:HD3	1.76	0.66
5:D:141:ARG:O	5:D:142:ILE:HD13	1.96	0.66
5:D:148:TYR:N	5:D:148:TYR:CD1	2.63	0.66
6:E:30:LEU:HD23	6:E:34:GLN:H	1.60	0.66
6:E:102:ARG:O	6:E:253:PRO:HG3	1.95	0.66
6:E:620:GLN:C	6:E:620:GLN:CD	2.52	0.66
8:G:121:SER:HA	8:G:127:ASP:CA	2.24	0.66
8:G:348:MET:O	8:G:349:LYS:HG2	1.95	0.66
2:2:45:DA:H2"	2:2:46:DT:OP2	1.96	0.66
3:A:112:GLN:CG	3:A:361:PRO:HG2	2.26	0.66
3:A:398:HIS:O	3:A:398:HIS:CG	2.49	0.66
3:A:912:VAL:HG13	3:A:914:PHE:CZ	2.31	0.66
3:A:1068:GLU:O	3:A:1070:PHE:N	2.29	0.66
4:B:355:GLY:HA3	4:B:358:LYS:HZ2	1.60	0.66
4:B:461:GLU:HB3	4:B:475:ALA:HA	1.76	0.66
4:B:481:TRP:HB3	4:B:482:ILE:O	1.95	0.66
4:B:603:PHE:HD2	4:B:781:ARG:HB2	1.61	0.66
4:B:882:GLY:HA3	4:B:900:LEU:O	1.96	0.66
4:B:1125:VAL:O	4:B:1126:GLN:C	2.28	0.66
5:C:209:ALA:O	5:C:210:LEU:C	2.32	0.66
5:C:227:ILE:HD11	5:D:5:GLN:CB	2.25	0.66
5:D:68:VAL:HG13	5:D:71:VAL:HG11	1.78	0.66
5:D:86:ILE:C	5:D:121:ILE:HG12	2.15	0.66
5:D:204:ILE:HG22	5:D:205:SER:O	1.96	0.66
6:E:125:ILE:HG22	6:E:129:LEU:HD13	1.78	0.66
6:E:418:VAL:O	6:E:419:LEU:C	2.32	0.66
8:G:340:ARG:HA	8:G:349:LYS:H	1.61	0.66
9:Y:53:LYS:CE	9:Y:68:LEU:HD22	2.25	0.66
9:Y:81:LEU:HD22	9:Y:86:SER:HB2	1.77	0.66
9:Y:162:VAL:HG22	9:Y:170:ILE:C	2.16	0.66
1:1:112:DG:H5"	3:A:414:ARG:NH2	2.11	0.65
1:1:122:DC:C4	2:2:3:DT:C4	2.84	0.65
3:A:83:GLU:O	3:A:86:ARG:N	2.28	0.65
3:A:122:MET:HA	3:A:128:PHE:CD1	2.32	0.65
3:A:427:TYR:CD2	3:A:511:ARG:NH2	2.63	0.65
3:A:797:ARG:HH21	3:A:798:ASP:CG	1.99	0.65
3:A:797:ARG:HE	3:A:798:ASP:N	1.93	0.65
3:A:1077:LEU:CA	3:A:1082:LEU:CD1	2.74	0.65
4:B:280:VAL:HG22	4:B:281:VAL:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:482:ILE:HG23	4:B:969:GLY:HA2	1.78	0.65
4:B:597:ARG:HG2	4:B:788:VAL:HA	1.75	0.65
4:B:766:ILE:CG2	4:B:799:ILE:HD12	2.07	0.65
4:B:772:GLN:CA	4:B:792:ARG:O	2.42	0.65
5:C:57:ARG:NE	5:C:163:PHE:HA	2.10	0.65
8:G:116:VAL:O	8:G:119:ARG:HG2	1.96	0.65
8:G:246:THR:HB	8:G:256:LYS:HD3	1.74	0.65
8:G:340:ARG:N	8:G:354:ILE:HD12	2.10	0.65
9:X:98:VAL:HG13	9:X:100:LEU:CD1	2.25	0.65
3:A:74:LEU:HD22	3:A:95:MET:CB	1.82	0.65
3:A:307:LEU:HD23	3:A:307:LEU:H	1.59	0.65
3:A:599:VAL:H	3:A:608:VAL:HG12	1.61	0.65
3:A:613:GLN:C	3:A:615:PRO:HD2	2.16	0.65
3:A:1028:PHE:HD2	6:E:491:MET:CE	2.10	0.65
4:B:59:PRO:HG3	4:B:109:VAL:HB	1.77	0.65
4:B:171:GLU:H	4:B:171:GLU:CD	1.92	0.65
4:B:630:LEU:HB3	4:B:743:GLU:HB2	1.76	0.65
4:B:909:ASN:OD1	4:B:962:TYR:HB2	1.96	0.65
4:B:1082:PRO:CB	4:B:1088:SER:HB3	2.26	0.65
4:B:1141:ILE:O	4:B:1142:GLU:C	2.27	0.65
5:C:204:ILE:HG22	5:C:205:SER:O	1.96	0.65
5:D:20:TYR:HB2	5:D:199:TRP:CE3	2.31	0.65
6:E:143:ASN:O	6:E:144:SER:OG	2.13	0.65
6:E:144:SER:HA	6:E:163:SER:CA	2.19	0.65
6:E:269:THR:HG22	8:G:283:PRO:HB2	1.79	0.65
6:E:298:ILE:O	6:E:301:ASN:N	2.29	0.65
9:X:206:HIS:H	9:X:209:LYS:HB2	1.60	0.65
1:1:79:DA:N1	2:2:47:DT:C2	2.63	0.65
3:A:221:LYS:HG3	3:A:225:LYS:HG2	1.78	0.65
3:A:808:ASN:OD1	3:A:808:ASN:N	2.11	0.65
3:A:928:SER:HA	3:A:931:ILE:CD1	2.26	0.65
4:B:107:ASP:O	4:B:111:THR:HG23	1.96	0.65
4:B:230:LYS:NZ	4:B:232:LEU:HA	2.11	0.65
4:B:668:ASN:HB2	4:B:686:VAL:HG11	1.77	0.65
4:B:1042:ASP:H	4:B:1050:LYS:HZ2	1.44	0.65
4:B:1159:ASP:C	4:B:1180:MET:SD	2.74	0.65
6:E:42:PRO:O	6:E:57:LEU:CD2	2.45	0.65
6:E:510:SER:N	6:E:513:MET:HE2	2.12	0.65
8:G:199:ASP:O	8:G:201:GLU:N	2.29	0.65
8:G:371:LYS:HG2	8:G:375:LYS:HD2	1.77	0.65
9:X:37:PRO:HG2	9:X:57:VAL:CG1	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:143:ARG:O	9:X:148:ARG:CZ	2.44	0.65
3:A:633:GLN:O	3:A:635:ILE:N	2.30	0.65
3:A:704:ILE:HG22	3:A:705:SER:O	1.96	0.65
3:A:910:LEU:HD21	3:A:939:ALA:HA	1.79	0.65
4:B:79:ARG:HD3	4:B:84:GLU:HB2	1.76	0.65
4:B:80:TYR:HA	4:B:85:ILE:HG13	1.77	0.65
4:B:171:GLU:O	4:B:172:TYR:C	2.33	0.65
4:B:374:GLU:O	4:B:416:GLN:HG3	1.95	0.65
4:B:385:MET:CG	4:B:406:GLN:N	2.54	0.65
4:B:489:ASN:HB3	4:B:850:GLN:HA	1.78	0.65
4:B:603:PHE:HA	4:B:781:ARG:HA	1.79	0.65
4:B:603:PHE:N	4:B:781:ARG:HH11	1.95	0.65
4:B:1032:ARG:HB2	4:B:1078:PRO:CA	2.27	0.65
5:C:141:ARG:O	5:C:142:ILE:HD13	1.96	0.65
5:C:171:MET:SD	5:C:172:PRO:N	2.69	0.65
5:D:194:LEU:C	5:D:194:LEU:HD23	2.16	0.65
6:E:69:TRP:HD1	6:E:93:VAL:CG1	2.09	0.65
8:G:132:GLU:OE2	8:G:139:LEU:N	2.30	0.65
8:G:351:LEU:O	8:G:354:ILE:HG22	1.96	0.65
1:1:89:DA:C4	1:1:90:DA:C8	2.85	0.65
1:1:107:DG:C5	1:1:108:DA:C6	2.82	0.65
1:1:117:DG:H1’	1:1:118:DG:C5’	2.26	0.65
2:2:63:DC:H5	9:Y:187:ARG:NH1	1.94	0.65
3:A:59:TYR:HE1	3:A:348:ARG:HG3	1.60	0.65
3:A:185:VAL:HG11	3:A:200:LYS:HE3	1.76	0.65
3:A:344:GLU:O	3:A:347:ILE:HG22	1.96	0.65
3:A:499:GLU:OE2	3:A:500:ASN:N	2.29	0.65
4:B:197:THR:O	4:B:200:LEU:N	2.30	0.65
4:B:388:GLU:CB	4:B:399:PRO:HG2	2.15	0.65
4:B:1151:LYS:HE2	4:B:1169:GLU:CG	2.21	0.65
5:C:38:ASN:O	5:C:41:ARG:N	2.30	0.65
5:D:51:THR:HA	5:D:143:GLU:O	1.97	0.65
6:E:47:TYR:CE1	6:E:48:ARG:CG	2.77	0.65
6:E:306:LEU:O	6:E:307:GLN:C	2.32	0.65
8:G:114:GLU:HA	8:G:117:ARG:CG	2.26	0.65
1:1:59:DT:C5	1:1:60:DT:O4	2.50	0.65
1:1:73:DA:N1	2:2:53:DT:C2	2.65	0.65
2:2:3:DT:H1’	2:2:4:DG:C5	2.32	0.65
2:2:40:DC:H2”	2:2:41:DC:C6	2.32	0.65
3:A:70:HIS:O	3:A:71:ASN:OD1	2.14	0.65
3:A:88:ASP:HA	3:A:132:GLY:HA3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:326:ARG:HB2	3:A:330:GLU:OE2	1.96	0.65
3:A:616:THR:C	3:A:633:GLN:HE22	1.97	0.65
3:A:1077:LEU:CB	3:A:1082:LEU:HD12	2.20	0.65
4:B:46:ARG:HB3	4:B:46:ARG:CZ	2.20	0.65
4:B:461:GLU:HG2	4:B:474:ALA:O	1.96	0.65
4:B:497:VAL:HG22	4:B:510:LEU:C	2.17	0.65
4:B:707:LEU:HB2	4:B:724:TYR:CA	2.20	0.65
5:C:151:VAL:HG13	5:C:156:GLU:CD	2.16	0.65
6:E:28:ARG:HE	6:E:102:ARG:CD	2.10	0.65
6:E:124:TYR:O	6:E:128:LEU:HG	1.96	0.65
6:E:550:ILE:CD1	6:E:610:PRO:CB	2.74	0.65
9:X:142:HIS:O	9:X:143:ARG:CG	2.44	0.65
9:Y:35:PHE:CD2	9:Y:92:ALA:CB	2.79	0.65
2:2:49:DT:P	9:X:176:HIS:HE2	2.18	0.65
3:A:426:HIS:O	3:A:429:ARG:N	2.29	0.65
3:A:703:LEU:C	3:A:704:ILE:HG12	2.16	0.65
3:A:1070:PHE:O	3:A:1071:LYS:C	2.31	0.65
4:B:16:LEU:O	4:B:17:ILE:C	2.34	0.65
4:B:201:VAL:HG13	4:B:202:ASP:H	1.61	0.65
4:B:303:LEU:HD11	4:B:1137:ALA:HB2	1.77	0.65
4:B:358:LYS:HB3	4:B:391:LYS:HA	1.79	0.65
4:B:726:GLN:CB	4:B:737:LEU:HB3	2.22	0.65
4:B:1252:ASN:ND2	7:F:33:VAL:CG2	2.52	0.65
5:C:224:LEU:HG	5:D:6:ILE:HD11	1.79	0.65
6:E:280:ILE:O	6:E:281:ASN:C	2.34	0.65
9:X:98:VAL:HG13	9:X:100:LEU:HG	1.77	0.65
1:1:108:DA:N3	1:1:109:DG:N1	2.45	0.65
3:A:185:VAL:HG23	3:A:197:VAL:CA	2.16	0.65
3:A:495:ILE:HD12	3:A:495:ILE:N	2.11	0.65
3:A:697:ASN:HA	3:A:701:ALA:O	1.97	0.65
3:A:1054:ALA:CB	3:A:1059:LYS:HZ3	2.00	0.65
4:B:67:GLU:O	4:B:70:GLU:HB2	1.97	0.65
4:B:144:ARG:CB	4:B:159:ILE:HB	2.25	0.65
4:B:176:SER:O	4:B:177:TYR:C	2.33	0.65
4:B:636:THR:N	4:B:784:SER:HB3	2.12	0.65
4:B:1122:VAL:O	4:B:1123:ASN:C	2.32	0.65
4:B:1144:ILE:O	4:B:1147:GLN:HB2	1.96	0.65
5:C:51:THR:HA	5:C:143:GLU:O	1.96	0.65
6:E:577:THR:N	6:E:584:ARG:O	2.30	0.65
8:G:135:GLU:CG	8:G:137:VAL:HG22	2.27	0.65
8:G:340:ARG:NH2	8:G:369:GLU:CB	2.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:345:ASP:N	8:G:345:ASP:OD1	2.25	0.65
9:X:57:VAL:HA	9:X:63:GLU:CG	2.26	0.65
9:X:202:MET:CE	9:X:219:SER:HB3	2.27	0.65
1:1:84:DA:C2	1:1:85:DG:C4	2.85	0.65
1:1:85:DG:H1'	1:1:86:DG:OP2	1.97	0.65
2:2:8:DC:H1'	2:2:9:DC:N4	2.12	0.65
3:A:78:LYS:HE2	3:A:78:LYS:HA	1.78	0.65
3:A:609:ARG:HH12	3:A:637:TYR:H	1.40	0.65
3:A:688:VAL:HG12	3:A:975:GLY:O	1.95	0.65
3:A:903:LEU:O	3:A:904:GLY:C	2.30	0.65
4:B:66:LEU:CD1	4:B:143:MET:SD	2.85	0.65
4:B:93:LYS:HA	4:B:96:ASP:H	1.61	0.65
4:B:113:PHE:HD1	4:B:117:ASN:HD21	1.45	0.65
4:B:304:ALA:HB2	6:E:438:ARG:HH21	1.58	0.65
4:B:348:GLN:HG3	4:B:349:VAL:HG23	1.78	0.65
4:B:458:VAL:HG11	4:B:478:GLY:N	2.11	0.65
4:B:500:ASN:OD1	4:B:887:VAL:N	2.27	0.65
4:B:583:GLN:HE22	4:B:799:ILE:HG12	1.62	0.65
4:B:645:LEU:HB2	4:B:662:LYS:HD3	1.79	0.65
5:C:75:VAL:HG13	5:C:76:LEU:N	2.12	0.65
5:C:108:THR:CG2	5:C:124:THR:N	2.60	0.65
5:D:71:VAL:HA	5:D:130:ILE:HA	1.78	0.65
6:E:46:ASN:HD21	6:E:48:ARG:HB2	1.62	0.65
6:E:320:GLY:O	6:E:321:ARG:CZ	2.45	0.65
6:E:484:GLN:O	6:E:485:ALA:C	2.33	0.65
9:Y:191:THR:O	9:Y:194:LEU:HB2	1.96	0.65
3:A:48:GLU:HG2	3:A:49:GLU:N	2.10	0.65
3:A:596:GLY:C	3:A:662:ARG:NH2	2.50	0.65
3:A:609:ARG:CB	3:A:609:ARG:HH11	2.10	0.65
3:A:654:LYS:HE2	5:C:77:GLU:CG	2.24	0.65
3:A:1025:LEU:HD13	3:A:1034:LEU:HD12	1.78	0.65
4:B:89:GLU:HG3	4:B:368:HIS:O	1.96	0.65
4:B:134:ILE:HA	4:B:137:VAL:HG22	1.79	0.65
4:B:453:VAL:HG22	4:B:988:VAL:HG22	1.63	0.65
4:B:604:LEU:CB	4:B:631:TRP:CE3	2.80	0.65
4:B:907:THR:HB	4:B:964:VAL:O	1.97	0.65
4:B:932:ILE:HG22	4:B:933:PHE:H	1.61	0.65
4:B:1144:ILE:O	4:B:1145:VAL:C	2.33	0.65
6:E:28:ARG:NE	6:E:102:ARG:CD	2.56	0.65
6:E:368:LEU:HD21	6:E:372:GLN:HB3	1.79	0.65
8:G:185:GLN:O	8:G:186:GLU:C	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:69:LEU:HD11	9:X:73:SER:HB2	1.79	0.65
9:Y:197:LEU:CD1	9:Y:198:ARG:N	2.57	0.65
1:1:88:DA:H5"	1:1:88:DA:C8	2.30	0.64
1:1:90:DA:H1'	1:1:91:DT:H5'	1.78	0.64
1:1:98:DG:H1'	1:1:99:DT:H5'	1.79	0.64
1:1:119:DA:H1'	1:1:120:DT:C2	2.31	0.64
3:A:292:LEU:C	3:A:292:LEU:HD12	2.17	0.64
3:A:367:PRO:O	3:A:368:LYS:C	2.35	0.64
3:A:598:VAL:N	3:A:661:GLU:O	2.30	0.64
4:B:189:ARG:HH22	4:B:330:LEU:C	2.01	0.64
4:B:197:THR:O	4:B:198:ARG:C	2.33	0.64
4:B:453:VAL:CG2	4:B:482:ILE:HD12	2.27	0.64
4:B:509:VAL:O	4:B:510:LEU:HD12	1.97	0.64
4:B:599:THR:HG23	4:B:633:PRO:HG2	1.79	0.64
4:B:653:TYR:OH	4:B:656:ALA:CB	2.41	0.64
4:B:761:GLN:HA	4:B:764:ARG:O	1.97	0.64
4:B:970:ARG:HB3	4:B:972:TYR:CE1	2.31	0.64
4:B:1173:VAL:HG21	4:B:1190:TYR:HE1	1.61	0.64
5:C:130:ILE:HB	5:C:136:LEU:CD1	2.27	0.64
5:D:213:ALA:O	5:D:214:ALA:C	2.36	0.64
6:E:41:LYS:HB3	6:E:43:GLU:CD	2.18	0.64
6:E:124:TYR:HA	6:E:127:ILE:HD12	1.79	0.64
6:E:495:ASN:N	6:E:495:ASN:OD1	2.23	0.64
6:E:530:GLY:CA	6:E:550:ILE:HA	2.23	0.64
6:E:557:TYR:HB3	6:E:605:TYR:HB3	1.79	0.64
1:1:65:DA:H2"	1:1:66:DG:H5"	1.77	0.64
3:A:31:ILE:O	3:A:32:GLU:C	2.30	0.64
3:A:66:HIS:NE2	3:A:100:ARG:CD	2.53	0.64
3:A:313:SER:O	3:A:313:SER:OG	2.14	0.64
3:A:959:VAL:O	3:A:959:VAL:HG23	1.96	0.64
4:B:513:THR:CG2	4:B:874:THR:HB	2.26	0.64
4:B:574:LEU:CB	4:B:577:THR:HG22	2.26	0.64
4:B:1016:GLU:O	4:B:1019:GLU:N	2.30	0.64
5:D:38:ASN:O	5:D:41:ARG:N	2.30	0.64
6:E:146:VAL:HG22	6:E:187:GLY:CA	2.26	0.64
8:G:183:LEU:O	8:G:184:ILE:C	2.29	0.64
8:G:331:PRO:HD3	8:G:334:ARG:NH2	2.12	0.64
9:Y:43:ARG:H	9:Y:105:ILE:HD11	1.61	0.64
9:Y:44:VAL:HG13	9:Y:75:PHE:O	1.97	0.64
2:2:58:DA:H2'	2:2:58:DA:P	2.36	0.64
3:A:46:LEU:N	3:A:46:LEU:HD23	2.08	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:577:GLY:N	3:A:915:LYS:HD2	2.12	0.64
3:A:709:VAL:HG21	3:A:846:ILE:H	1.63	0.64
3:A:932:VAL:O	3:A:933:HIS:C	2.33	0.64
4:B:93:LYS:HE3	4:B:372:HIS:CE1	2.32	0.64
4:B:147:MET:HG3	4:B:159:ILE:HD13	1.79	0.64
4:B:299:TYR:CZ	4:B:1139:LYS:HD2	2.31	0.64
4:B:456:ALA:C	4:B:458:VAL:H	2.00	0.64
4:B:538:GLU:HB3	4:B:837:SER:CB	2.28	0.64
4:B:575:ARG:HH11	4:B:590:GLU:HB2	1.61	0.64
4:B:630:LEU:N	4:B:743:GLU:OE1	2.30	0.64
4:B:674:VAL:HA	4:B:684:VAL:HG22	1.79	0.64
4:B:1084:SER:OG	4:B:1084:SER:O	2.14	0.64
4:B:1101:GLY:C	4:B:1109:CYS:HB2	2.17	0.64
4:B:1117:VAL:HG13	4:B:1118:GLN:N	2.11	0.64
4:B:1173:VAL:CG2	4:B:1190:TYR:HE1	2.10	0.64
5:C:107:ILE:CD1	5:C:136:LEU:HD13	2.27	0.64
5:D:88:LYS:N	5:D:121:ILE:HD11	2.11	0.64
6:E:254:PRO:O	6:E:257:ARG:N	2.22	0.64
6:E:350:LEU:HD12	6:E:350:LEU:N	2.09	0.64
6:E:423:ILE:CG2	6:E:424:GLU:N	2.60	0.64
8:G:249:LEU:HD21	8:G:265:ARG:CD	2.20	0.64
1:1:58:DA:N3	1:1:59:DT:C2	2.65	0.64
1:1:78:DA:H2"	1:1:79:DA:C8	2.31	0.64
3:A:74:LEU:HD23	3:A:95:MET:HA	0.67	0.64
3:A:188:ASP:O	3:A:189:LYS:CG	2.45	0.64
3:A:281:LEU:O	3:A:282:ARG:C	2.34	0.64
4:B:178:GLY:O	4:B:181:LYS:N	2.31	0.64
4:B:844:ILE:O	4:B:844:ILE:HG22	1.97	0.64
4:B:939:GLN:HE22	4:B:941:VAL:CG2	2.10	0.64
5:C:210:LEU:O	5:C:211:SER:C	2.32	0.64
6:E:283:ASN:O	6:E:284:ASN:C	2.31	0.64
6:E:306:LEU:HD23	6:E:307:GLN:N	2.12	0.64
6:E:550:ILE:HD12	6:E:610:PRO:CB	2.26	0.64
6:E:554:ALA:O	6:E:610:PRO:HD3	1.97	0.64
1:1:76:DC:OP2	1:1:76:DC:H6	1.79	0.64
1:1:108:DA:H1'	1:1:109:DG:C2	2.33	0.64
3:A:271:ARG:N	3:A:290:ARG:NH1	2.46	0.64
3:A:596:GLY:CA	3:A:662:ARG:HH22	2.10	0.64
4:B:80:TYR:CB	4:B:90:ARG:HG2	2.25	0.64
4:B:93:LYS:NZ	4:B:375:ASP:CA	2.61	0.64
4:B:251:PRO:HG2	4:B:254:LYS:NZ	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:262:THR:O	4:B:263:PRO:C	2.32	0.64
4:B:575:ARG:NH1	4:B:590:GLU:HB2	2.12	0.64
4:B:631:TRP:CH2	4:B:782:VAL:HG22	2.33	0.64
4:B:675:THR:HB	4:B:677:LYS:NZ	2.12	0.64
4:B:678:ASN:O	4:B:680:ILE:N	2.30	0.64
4:B:688:PRO:O	4:B:739:ARG:CG	2.38	0.64
4:B:726:GLN:HG3	4:B:728:VAL:N	2.11	0.64
4:B:1039:VAL:HG13	4:B:1040:TYR:H	1.63	0.64
6:E:508:THR:O	6:E:509:PRO:C	2.30	0.64
7:F:60:ARG:O	7:F:63:ILE:HG13	1.98	0.64
8:G:270:ILE:HG12	8:G:274:ARG:HG3	1.78	0.64
9:Y:56:ARG:HG3	9:Y:57:VAL:N	2.11	0.64
1:1:89:DA:C6	1:1:90:DA:C6	2.86	0.64
3:A:110:LYS:HB3	3:A:361:PRO:HD3	1.79	0.64
3:A:184:TRP:HB3	3:A:193:LEU:CA	2.27	0.64
3:A:206:ASP:HA	3:A:209:ILE:HB	1.78	0.64
3:A:620:LYS:HG2	3:A:630:GLN:O	1.98	0.64
3:A:723:GLU:HB3	3:A:837:ARG:HD2	1.80	0.64
4:B:16:LEU:HD23	4:B:17:ILE:N	2.12	0.64
4:B:41:PHE:O	4:B:42:ARG:C	2.29	0.64
4:B:85:ILE:HD12	4:B:372:HIS:CB	2.28	0.64
4:B:237:THR:O	4:B:238:ARG:C	2.34	0.64
4:B:356:THR:CG2	4:B:411:TYR:HD2	2.07	0.64
4:B:688:PRO:HG2	4:B:739:ARG:HB3	1.78	0.64
4:B:1239:VAL:O	4:B:1240:ILE:C	2.33	0.64
8:G:133:TRP:HA	8:G:133:TRP:CE3	2.32	0.64
8:G:287:GLU:O	8:G:287:GLU:HG2	1.95	0.64
1:1:59:DT:C2	1:1:60:DT:C4	2.85	0.64
1:1:114:DC:H4'	1:1:115:DA:OP1	1.98	0.64
3:A:166:ILE:HG23	3:A:167:PRO:HD2	1.80	0.64
3:A:935:LYS:O	3:A:936:LEU:C	2.35	0.64
4:B:268:LEU:HA	4:B:271:GLU:OE2	1.96	0.64
4:B:384:ILE:CG2	4:B:394:SER:HB3	2.27	0.64
4:B:524:ARG:HB3	4:B:538:GLU:CG	2.27	0.64
4:B:766:ILE:HD13	4:B:799:ILE:HD12	1.76	0.64
4:B:913:LYS:CB	4:B:915:LYS:HG2	2.27	0.64
4:B:1121:LEU:O	4:B:1122:VAL:C	2.34	0.64
4:B:1240:ILE:HG22	4:B:1241:ILE:N	2.13	0.64
5:C:49:GLU:OE2	5:C:146:LYS:HA	1.98	0.64
9:X:120:MET:HB2	9:X:124:ARG:HH21	1.62	0.64
2:2:42:DT:H2"	2:2:43:DG:C8	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:50:DG:H2'	9:X:190:VAL:CG1	2.28	0.64
2:2:50:DG:C1'	2:2:51:DT:H5'	2.23	0.64
3:A:96:TYR:CE2	3:A:115:PHE:HB3	2.33	0.64
3:A:110:LYS:HZ1	3:A:360:THR:CA	2.10	0.64
3:A:139:ASN:OD1	3:A:139:ASN:O	2.16	0.64
3:A:268:ASP:OD1	3:A:269:LEU:N	2.31	0.64
3:A:345:ARG:O	3:A:346:ILE:C	2.36	0.64
3:A:853:ALA:O	3:A:980:LEU:HB3	1.98	0.64
3:A:1081:GLY:HA2	6:E:17:ALA:HB3	1.80	0.64
3:A:1087:HIS:CB	3:A:1098:LEU:HD23	2.24	0.64
4:B:366:ARG:O	4:B:376:ALA:HA	1.98	0.64
4:B:440:LYS:HZ2	4:B:1000:GLU:N	1.95	0.64
4:B:547:ASP:HB3	4:B:754:SER:O	1.97	0.64
4:B:840:LEU:HD21	4:B:843:ASP:OD2	1.97	0.64
4:B:1235:LEU:HD22	4:B:1245:ILE:HG23	1.80	0.64
4:B:1237:GLU:O	4:B:1238:ASN:C	2.36	0.64
6:E:386:PRO:O	6:E:388:VAL:N	2.30	0.64
8:G:322:LEU:O	8:G:323:GLU:C	2.35	0.64
9:Y:216:VAL:HG23	9:Y:217:THR:HB	1.79	0.64
1:1:86:DG:C4	1:1:87:DA:C8	2.86	0.64
1:1:89:DA:C6	2:2:37:DT:O4	2.47	0.64
3:A:46:LEU:HG	3:A:47:ILE:N	2.12	0.64
3:A:272:VAL:HG23	3:A:273:GLY:N	2.10	0.64
3:A:333:GLN:O	3:A:334:ASN:C	2.29	0.64
3:A:335:GLN:C	3:A:335:GLN:OE1	2.36	0.64
3:A:425:SER:HA	3:A:484:GLU:HG2	1.80	0.64
3:A:601:VAL:O	3:A:601:VAL:HG23	1.97	0.64
3:A:770:VAL:O	3:A:804:LEU:N	2.23	0.64
3:A:798:ASP:OD1	3:A:798:ASP:N	2.28	0.64
4:B:86:THR:OG1	4:B:87:GLU:N	2.31	0.64
4:B:240:LEU:HD12	4:B:241:GLY:N	2.13	0.64
4:B:384:ILE:HG21	4:B:394:SER:CA	2.27	0.64
4:B:545:VAL:HA	4:B:829:ARG:HB3	1.80	0.64
4:B:806:GLU:HG3	4:B:807:HIS:N	2.13	0.64
4:B:856:SER:N	4:B:873:ARG:HD3	2.13	0.64
4:B:1066:GLY:O	4:B:1067:GLN:NE2	2.31	0.64
5:D:76:LEU:O	5:D:77:GLU:C	2.35	0.64
5:D:209:ALA:O	5:D:210:LEU:C	2.32	0.64
8:G:338:ARG:CG	8:G:343:LEU:CB	2.71	0.64
1:1:84:DA:N6	2:2:41:DC:C4	2.66	0.64
1:1:98:DG:C5	1:1:99:DT:O4	2.50	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:198:LEU:HD21	3:A:208:GLU:HB3	1.79	0.64
3:A:615:PRO:C	3:A:617:ALA:N	2.50	0.64
4:B:638:GLU:OE2	4:B:685:VAL:HG22	1.98	0.64
4:B:666:CYS:C	4:B:668:ASN:H	2.01	0.64
4:B:936:GLU:OE2	4:B:968:ALA:HA	1.98	0.64
4:B:1032:ARG:HG2	4:B:1033:GLY:N	2.13	0.64
4:B:1050:LYS:HB2	4:B:1061:TYR:CA	2.24	0.64
4:B:1248:GLY:O	4:B:1252:ASN:OD1	2.16	0.64
5:C:57:ARG:CZ	5:C:163:PHE:HA	2.28	0.64
5:D:19:HIS:ND1	5:D:205:SER:HA	2.13	0.64
5:D:75:VAL:HG13	5:D:76:LEU:N	2.12	0.64
6:E:129:LEU:O	6:E:131:MET:HG2	1.98	0.64
6:E:520:LEU:HD23	6:E:521:THR:HA	1.78	0.64
6:E:586:VAL:C	6:E:587:LEU:HD12	2.17	0.64
8:G:194:ALA:C	8:G:196:GLU:N	2.47	0.64
9:Y:213:HIS:HB3	9:Y:214:LYS:NZ	2.13	0.64
3:A:271:ARG:CA	3:A:290:ARG:HH22	2.10	0.63
3:A:295:GLY:HA2	3:A:298:LEU:HD21	1.79	0.63
3:A:489:ARG:HB2	3:A:525:ASP:OD2	1.98	0.63
3:A:599:VAL:HG23	3:A:600:TYR:H	1.63	0.63
3:A:821:THR:HB	3:A:834:MET:HG2	1.80	0.63
4:B:840:LEU:CD1	4:B:843:ASP:OD1	2.46	0.63
4:B:1042:ASP:HB2	4:B:1050:LYS:NZ	2.13	0.63
4:B:1137:ALA:HB3	4:B:1140:HIS:CD2	2.33	0.63
5:D:9:VAL:HG11	5:D:24:ILE:HG12	1.78	0.63
5:D:77:GLU:CD	5:D:78:ILE:N	2.52	0.63
5:D:186:ASP:CG	5:D:190:PRO:HA	2.19	0.63
9:X:71:GLU:O	9:X:73:SER:N	2.31	0.63
9:X:213:HIS:HB3	9:X:214:LYS:NZ	2.13	0.63
1:1:61:DT:H2"	1:1:62:DT:H71	1.79	0.63
1:1:106:DG:C8	1:1:106:DG:H5'	2.33	0.63
3:A:53:PHE:CD2	3:A:340:LEU:HB3	2.32	0.63
3:A:276:LYS:O	3:A:277:LEU:C	2.34	0.63
3:A:298:LEU:O	3:A:299:ALA:C	2.35	0.63
3:A:532:VAL:O	3:A:532:VAL:HG12	1.98	0.63
3:A:595:ASP:O	3:A:619:GLY:N	2.31	0.63
3:A:600:TYR:CE2	3:A:607:ARG:NH2	2.67	0.63
3:A:897:GLN:HG3	3:A:898:VAL:N	2.11	0.63
4:B:10:LYS:HZ1	4:B:14:ARG:NH2	1.97	0.63
4:B:72:GLU:OE1	4:B:73:ILE:HG22	1.97	0.63
4:B:87:GLU:HG2	4:B:88:VAL:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:375:ASP:O	4:B:376:ALA:HB2	1.98	0.63
4:B:479:LEU:HG	4:B:973:ARG:HG2	1.81	0.63
4:B:640:ASN:O	4:B:641:LYS:HG3	1.98	0.63
4:B:983:GLU:OE2	4:B:984:ASP:HB2	1.98	0.63
5:C:79:ILE:O	5:C:80:MET:C	2.29	0.63
5:D:112:PHE:CE2	5:D:127:VAL:HG21	2.33	0.63
6:E:255:ASP:N	6:E:255:ASP:OD1	2.24	0.63
6:E:303:LYS:O	6:E:305:MET:N	2.32	0.63
6:E:363:VAL:HG23	6:E:363:VAL:O	1.98	0.63
6:E:370:ILE:HG23	6:E:457:HIS:NE2	2.12	0.63
6:E:540:ASP:O	6:E:543:MET:N	2.32	0.63
8:G:159:VAL:HG11	8:G:192:ILE:HD13	1.80	0.63
8:G:350:THR:O	8:G:351:LEU:C	2.36	0.63
9:X:47:LEU:N	9:X:73:SER:O	2.31	0.63
1:1:78:DA:C4	1:1:79:DA:C8	2.86	0.63
3:A:70:HIS:CE1	3:A:71:ASN:HD21	1.86	0.63
3:A:103:ASN:HB2	3:A:105:GLU:CD	2.17	0.63
3:A:110:LYS:NZ	3:A:360:THR:HA	2.13	0.63
3:A:532:VAL:HG12	3:A:540:SER:HB2	1.79	0.63
3:A:613:GLN:HG2	3:A:614:LEU:N	2.10	0.63
4:B:4:ARG:H	6:E:616:ASN:ND2	1.94	0.63
4:B:35:LYS:O	4:B:38:ASP:HB3	1.98	0.63
4:B:104:ALA:N	4:B:354:ASP:OD2	2.30	0.63
4:B:383:GLY:O	4:B:384:ILE:C	2.36	0.63
4:B:514:LYS:HZ1	4:B:873:ARG:NH2	1.93	0.63
4:B:636:THR:HG21	4:B:783:LYS:HA	1.78	0.63
4:B:710:PRO:HA	4:B:719:ALA:C	2.19	0.63
4:B:1037:LYS:CD	4:B:1052:ILE:HG23	2.18	0.63
5:C:200:THR:HG21	5:C:204:ILE:O	1.98	0.63
5:D:51:THR:OG1	5:D:87:LEU:O	2.17	0.63
6:E:67:LYS:HB3	6:E:70:GLU:CD	2.19	0.63
6:E:298:ILE:O	6:E:299:VAL:C	2.35	0.63
9:X:131:LEU:HG	9:X:135:MET:HE3	1.80	0.63
9:X:145:MET:SD	9:X:188:VAL:HG21	2.38	0.63
3:A:243:ARG:O	3:A:243:ARG:HD3	1.99	0.63
3:A:435:THR:CG2	3:A:436:PRO:HD2	2.29	0.63
3:A:581:GLN:O	3:A:582:GLY:C	2.37	0.63
3:A:596:GLY:CA	3:A:615:PRO:HA	2.26	0.63
3:A:727:ARG:NH2	3:A:832:ALA:HB2	2.12	0.63
4:B:86:THR:O	4:B:90:ARG:N	2.28	0.63
4:B:809:ALA:HB1	4:B:812:LEU:CB	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:854:GLN:HA	4:B:855:THR:HG23	1.80	0.63
4:B:1107:TYR:O	4:B:1110:ALA:N	2.31	0.63
4:B:1226:GLU:OE2	6:E:233:ASN:ND2	2.31	0.63
5:C:23:PHE:HD2	5:C:196:LEU:HD22	1.64	0.63
5:C:213:ALA:O	5:C:214:ALA:C	2.36	0.63
5:C:216:ILE:O	5:C:219:ASP:HB2	1.98	0.63
5:C:217:LEU:C	5:C:219:ASP:N	2.39	0.63
5:C:227:ILE:HD13	5:D:6:ILE:H	1.63	0.63
5:D:72:ARG:HE	6:E:602:ILE:CD1	2.12	0.63
7:F:63:ILE:HD12	7:F:64:GLU:HG2	1.80	0.63
1:1:61:DT:N1	1:1:62:DT:C4	2.66	0.63
2:2:9:DC:C4	2:2:10:DG:C6	2.86	0.63
3:A:344:GLU:OE1	3:A:345:ARG:N	2.31	0.63
3:A:417:PHE:O	3:A:420:ARG:N	2.26	0.63
4:B:352:LYS:HE2	4:B:358:LYS:HE3	1.74	0.63
4:B:388:GLU:HB3	4:B:399:PRO:CG	2.17	0.63
4:B:413:VAL:H	4:B:424:LEU:CD2	2.10	0.63
4:B:649:GLU:HB3	4:B:652:GLN:NE2	2.13	0.63
4:B:766:ILE:HG12	4:B:799:ILE:HD13	1.76	0.63
4:B:808:ASN:OD1	4:B:809:ALA:N	2.32	0.63
5:C:77:GLU:CD	5:C:78:ILE:N	2.52	0.63
6:E:129:LEU:HD22	6:E:136:VAL:HG11	1.80	0.63
8:G:138:GLN:H	8:G:138:GLN:CD	1.90	0.63
9:X:108:VAL:HG13	9:X:112:LEU:CD1	2.29	0.63
1:1:74:DT:N3	2:2:53:DT:N3	2.47	0.63
1:1:76:DC:C2	1:1:77:DA:C8	2.87	0.63
1:1:96:DC:C2	1:1:97:DT:C5	2.86	0.63
2:2:37:DT:H1'	2:2:38:DT:C6	2.34	0.63
3:A:499:GLU:O	3:A:500:ASN:HB3	1.98	0.63
3:A:1091:THR:O	3:A:1094:ASP:HA	1.97	0.63
4:B:526:PRO:O	4:B:527:GLU:C	2.36	0.63
4:B:687:LYS:CD	4:B:739:ARG:NH1	2.61	0.63
4:B:1017:LEU:HD12	4:B:1018:LEU:HG	1.80	0.63
4:B:1115:GLN:CG	4:B:1116:LYS:N	2.62	0.63
4:B:1145:VAL:O	4:B:1146:ARG:C	2.30	0.63
5:C:25:LEU:HD13	5:C:194:LEU:HB3	1.81	0.63
5:D:47:ASN:N	5:D:47:ASN:OD1	2.19	0.63
6:E:73:CYS:HB3	6:E:89:CYS:CB	2.28	0.63
6:E:206:ALA:CA	6:E:210:ARG:NE	2.62	0.63
6:E:229:ARG:HG3	6:E:230:VAL:H	1.64	0.63
8:G:118:GLU:O	8:G:121:SER:OG	2.06	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:121:SER:HB2	8:G:126:ARG:O	1.98	0.63
8:G:389:ILE:HG22	8:G:389:ILE:O	1.99	0.63
9:Y:69:LEU:HD11	9:Y:73:SER:HB2	1.79	0.63
1:1:75:DA:H2"	1:1:76:DC:OP2	1.98	0.63
1:1:121:DG:H2"	1:1:122:DC:OP2	1.97	0.63
3:A:258:ASP:OD1	3:A:258:ASP:N	2.28	0.63
3:A:260:ARG:HH11	3:A:260:ARG:HG3	1.63	0.63
3:A:455:GLN:HG2	3:A:456:TYR:CD1	2.34	0.63
3:A:791:ILE:HG23	8:G:377:ARG:HG2	1.81	0.63
3:A:847:GLN:HG3	3:A:847:GLN:O	1.94	0.63
3:A:1023:TRP:HE3	6:E:436:LEU:CD1	2.09	0.63
4:B:4:ARG:HG2	6:E:565:GLU:CG	2.29	0.63
4:B:96:ASP:HB3	4:B:422:GLN:C	2.19	0.63
4:B:623:VAL:HG21	4:B:791:LEU:HD11	1.81	0.63
4:B:1040:TYR:O	4:B:1050:LYS:N	2.31	0.63
4:B:1154:ILE:HG12	4:B:1166:GLU:O	1.97	0.63
5:C:76:LEU:O	5:C:79:ILE:N	2.32	0.63
5:C:166:ILE:HG12	5:C:167:ASP:N	2.13	0.63
6:E:448:LEU:O	6:E:449:VAL:HG23	1.99	0.63
8:G:323:GLU:O	8:G:326:LEU:HG	1.99	0.63
9:X:37:PRO:HD3	9:X:91:HIS:CA	2.28	0.63
1:1:59:DT:C2	1:1:60:DT:N3	2.67	0.63
1:1:60:DT:C6	1:1:61:DT:C7	2.81	0.63
1:1:84:DA:OP2	1:1:84:DA:H8	1.80	0.63
1:1:94:DT:H2'	1:1:95:DT:H71	1.81	0.63
1:1:109:DG:N2	1:1:110:DC:H42	1.97	0.63
3:A:368:LYS:O	3:A:369:PRO:C	2.33	0.63
4:B:80:TYR:N	4:B:85:ILE:HD11	2.14	0.63
4:B:384:ILE:CG2	4:B:394:SER:CA	2.76	0.63
4:B:453:VAL:CB	4:B:988:VAL:HG13	2.28	0.63
4:B:517:THR:HG23	4:B:869:SER:HB3	1.81	0.63
4:B:1060:ASP:OD1	4:B:1061:TYR:N	2.31	0.63
5:D:68:VAL:HG13	5:D:71:VAL:CG1	2.29	0.63
6:E:47:TYR:HB2	8:G:231:LEU:HD22	1.81	0.63
6:E:216:ALA:HA	6:E:219:GLN:CG	2.26	0.63
6:E:338:ILE:HA	6:E:344:ARG:H	1.63	0.63
6:E:400:ASN:OD1	6:E:403:ALA:CB	2.47	0.63
6:E:611:GLY:O	6:E:612:ARG:C	2.35	0.63
8:G:81:SER:HB2	8:G:181:GLN:HE22	1.64	0.63
8:G:135:GLU:HG3	8:G:137:VAL:CG2	2.29	0.63
8:G:314:SER:O	8:G:317:LEU:HB2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:318:LEU:HD21	8:G:322:LEU:HD12	1.79	0.63
8:G:338:ARG:CG	8:G:343:LEU:CD2	2.77	0.63
8:G:351:LEU:HA	8:G:354:ILE:HG21	1.79	0.63
9:X:189:THR:O	9:X:193:LEU:HB2	1.99	0.63
1:1:58:DA:C6	2:2:68:DT:O4	2.51	0.63
1:1:119:DA:N1	2:2:7:DT:O4	2.31	0.63
2:2:31:DA:H2'	2:2:31:DA:N3	2.14	0.63
3:A:77:PRO:HB3	3:A:121:LEU:HD21	1.79	0.63
3:A:274:ARG:C	3:A:278:ASN:ND2	2.53	0.63
3:A:755:GLY:O	3:A:770:VAL:HA	1.98	0.63
3:A:1001:VAL:HG13	3:A:1002:THR:HB	1.80	0.63
4:B:614:LYS:HZ1	4:B:621:TYR:CA	2.09	0.63
4:B:853:THR:HA	4:B:874:THR:HG23	1.79	0.63
5:C:186:ASP:HA	5:C:190:PRO:CA	2.29	0.63
5:C:194:LEU:HD23	5:C:195:LEU:N	2.13	0.63
6:E:206:ALA:HB1	6:E:210:ARG:HE	1.64	0.63
6:E:267:PHE:HD2	8:G:281:GLN:HE21	1.46	0.63
6:E:514:VAL:O	6:E:517:ALA:N	2.31	0.63
6:E:594:ARG:HH11	6:E:603:SER:HB2	1.57	0.63
9:X:47:LEU:HD12	9:X:100:LEU:HD23	1.79	0.63
9:Y:71:GLU:O	9:Y:73:SER:N	2.31	0.63
3:A:39:ARG:O	3:A:43:GLU:OE1	2.16	0.62
3:A:399:LYS:C	3:A:401:ARG:H	2.02	0.62
3:A:490:VAL:H	3:A:510:VAL:CG2	2.12	0.62
3:A:591:VAL:HA	3:A:668:VAL:HA	1.81	0.62
4:B:207:VAL:HG11	4:B:294:VAL:HG12	1.81	0.62
4:B:463:LYS:HZ1	4:B:466:ARG:N	1.97	0.62
4:B:505:GLU:OE1	4:B:506:THR:N	2.32	0.62
4:B:573:ASN:HA	4:B:574:LEU:HD12	1.80	0.62
4:B:797:LEU:HB3	4:B:832:LEU:CD2	2.28	0.62
4:B:982:ILE:HD13	4:B:994:LEU:CD2	2.29	0.62
4:B:1107:TYR:HH	4:B:1174:GLU:HG2	1.57	0.62
4:B:1129:TYR:HB3	4:B:1134:ILE:O	1.98	0.62
5:C:76:LEU:O	5:C:77:GLU:C	2.35	0.62
5:D:140:PHE:CD1	5:D:140:PHE:C	2.71	0.62
5:D:173:VAL:HG13	5:D:173:VAL:O	1.98	0.62
6:E:94:THR:OG1	6:E:98:VAL:CG2	2.45	0.62
6:E:281:ASN:O	6:E:282:ARG:C	2.34	0.62
6:E:402:LYS:HZ2	8:G:390:ARG:NH2	1.96	0.62
7:F:25:ALA:HB3	7:F:31:ILE:HD11	1.80	0.62
8:G:290:ILE:HD11	8:G:295:ASP:OD1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:312:GLN:O	8:G:315:LYS:HB2	1.99	0.62
9:X:130:ILE:CD1	9:Y:130:ILE:HG23	2.29	0.62
1:1:105:DG:N7	8:G:164:ARG:HD3	2.13	0.62
3:A:110:LYS:HE2	3:A:360:THR:HA	1.81	0.62
3:A:153:ILE:HD13	3:A:159:ARG:HG3	1.81	0.62
3:A:208:GLU:O	3:A:216:PRO:HB3	1.99	0.62
3:A:277:LEU:O	3:A:280:LYS:N	2.32	0.62
3:A:590:ILE:HG22	3:A:670:ALA:H	1.63	0.62
3:A:735:GLU:HA	3:A:772:LYS:CG	2.27	0.62
3:A:993:ARG:HH11	6:E:355:ASP:HB3	1.63	0.62
3:A:1017:PHE:CZ	3:A:1025:LEU:CD1	2.73	0.62
4:B:124:MET:SD	6:E:515:LEU:HD13	2.39	0.62
4:B:168:THR:OG1	4:B:169:VAL:N	2.28	0.62
4:B:252:LYS:NZ	4:B:255:GLU:OE1	2.32	0.62
4:B:266:ASP:O	4:B:267:ASP:C	2.37	0.62
4:B:390:ARG:NH1	4:B:396:THR:O	2.32	0.62
4:B:505:GLU:HG3	4:B:508:GLY:HA2	1.80	0.62
4:B:571:VAL:O	4:B:591:LEU:HA	1.99	0.62
4:B:1088:SER:CB	4:B:1093:ILE:HG23	2.30	0.62
5:C:173:VAL:O	5:C:173:VAL:HG13	1.99	0.62
5:D:219:ASP:O	5:D:223:PRO:HD2	1.99	0.62
6:E:245:VAL:HG22	6:E:246:MET:N	2.13	0.62
6:E:419:LEU:O	6:E:421:GLU:N	2.32	0.62
7:F:60:ARG:O	7:F:61:ALA:C	2.37	0.62
8:G:318:LEU:O	8:G:319:ARG:C	2.36	0.62
9:Y:62:GLU:OE1	9:Y:64:ILE:HG13	1.99	0.62
9:Y:143:ARG:CA	9:Y:148:ARG:HH21	2.11	0.62
2:2:50:DG:OP2	9:X:190:VAL:CG1	2.47	0.62
2:2:59:DG:H3'	2:2:60:DC:C6	2.34	0.62
3:A:32:GLU:O	3:A:34:GLN:N	2.32	0.62
3:A:62:LYS:HA	3:A:104:LYS:HB2	1.81	0.62
3:A:493:GLY:CA	3:A:528:ALA:HB3	2.29	0.62
3:A:608:VAL:O	3:A:615:PRO:HB2	1.99	0.62
4:B:86:THR:OG1	4:B:87:GLU:OE1	2.17	0.62
4:B:89:GLU:CB	4:B:371:ARG:HB2	2.28	0.62
4:B:170:THR:O	4:B:171:GLU:C	2.36	0.62
4:B:484:SER:HB3	4:B:904:ASP:O	1.99	0.62
4:B:564:ILE:HB	4:B:572:PHE:O	2.00	0.62
4:B:768:MET:HA	4:B:797:LEU:HD22	1.81	0.62
4:B:988:VAL:HG11	4:B:994:LEU:CD1	2.25	0.62
5:C:98:ARG:HA	5:C:139:GLU:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:216:ILE:O	5:C:219:ASP:HB3	2.00	0.62
5:D:118:VAL:HG11	5:D:142:ILE:HG13	1.80	0.62
5:D:200:THR:HG21	5:D:204:ILE:O	1.98	0.62
6:E:73:CYS:HB3	6:E:89:CYS:HB2	1.80	0.62
6:E:302:GLU:O	6:E:303:LYS:C	2.34	0.62
8:G:209:TYR:O	8:G:212:TRP:HB2	1.99	0.62
1:1:78:DA:C2	1:1:79:DA:C4	2.88	0.62
3:A:59:TYR:H	3:A:352:THR:CG2	2.07	0.62
3:A:97:VAL:N	3:A:114:VAL:O	2.24	0.62
3:A:252:GLY:O	3:A:253:GLY:C	2.38	0.62
3:A:335:GLN:O	3:A:338:VAL:HG22	2.00	0.62
3:A:598:VAL:CA	3:A:615:PRO:HB3	2.28	0.62
3:A:608:VAL:C	3:A:616:THR:HG22	2.20	0.62
3:A:736:ILE:CD1	3:A:772:LYS:CD	2.73	0.62
3:A:848:VAL:HA	3:A:862:ILE:CG2	2.29	0.62
4:B:250:HIS:HE1	4:B:252:LYS:HA	1.63	0.62
4:B:522:VAL:HB	4:B:862:GLY:CA	2.29	0.62
4:B:586:GLN:HE22	4:B:797:LEU:C	2.02	0.62
5:C:51:THR:OG1	5:C:87:LEU:O	2.17	0.62
5:C:68:VAL:HG13	5:C:71:VAL:CG1	2.29	0.62
6:E:310:VAL:O	6:E:311:ASP:C	2.30	0.62
6:E:370:ILE:CG2	6:E:457:HIS:CG	2.81	0.62
8:G:193:ARG:O	8:G:196:GLU:HG3	1.99	0.62
8:G:295:ASP:OD1	8:G:295:ASP:N	2.26	0.62
8:G:331:PRO:HA	8:G:334:ARG:HD2	1.80	0.62
9:X:168:ILE:O	9:X:212:VAL:HB	1.99	0.62
9:Y:57:VAL:CG2	9:Y:63:GLU:HG2	2.30	0.62
9:Y:214:LYS:HD3	9:Y:217:THR:HG23	1.80	0.62
2:2:7:DT:H2"	2:2:8:DC:C6	2.34	0.62
3:A:236:MET:HB2	3:A:240:ARG:NH1	2.13	0.62
3:A:893:MET:CE	4:B:163:PHE:CD2	2.81	0.62
3:A:1072:VAL:O	3:A:1073:LEU:C	2.32	0.62
3:A:1074:MET:O	3:A:1075:ARG:C	2.36	0.62
4:B:28:ARG:O	4:B:31:VAL:N	2.32	0.62
4:B:252:LYS:HD2	4:B:254:LYS:O	1.99	0.62
4:B:450:ALA:HB1	4:B:487:VAL:HG12	1.81	0.62
4:B:453:VAL:CG2	4:B:988:VAL:H	2.11	0.62
4:B:611:VAL:HG22	4:B:623:VAL:HA	1.81	0.62
4:B:726:GLN:CG	4:B:728:VAL:O	2.48	0.62
4:B:766:ILE:CG1	4:B:799:ILE:CD1	2.39	0.62
4:B:895:ARG:O	4:B:896:ARG:HG3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1173:VAL:HG22	4:B:1190:TYR:CZ	2.35	0.62
5:C:30:ARG:HH22	5:D:147:GLY:HA3	1.64	0.62
5:C:82:MET:O	5:C:85:VAL:HG13	1.99	0.62
5:D:62:SER:HG	5:D:63:HIS:CG	2.13	0.62
5:D:63:HIS:HA	5:D:164:LEU:CD1	2.29	0.62
6:E:49:THR:HG23	6:E:50:LEU:N	2.14	0.62
6:E:255:ASP:OD1	6:E:256:LEU:HD12	2.00	0.62
8:G:131:SER:N	8:G:134:ALA:H	1.94	0.62
1:1:106:DG:C5	1:1:107:DG:C6	2.87	0.62
3:A:103:ASN:OD1	3:A:108:ASP:N	2.32	0.62
3:A:285:VAL:O	3:A:287:ASP:HB2	2.00	0.62
3:A:296:ASP:OD1	3:A:296:ASP:N	2.26	0.62
3:A:1044:ASP:HB2	3:A:1047:GLY:HA3	1.81	0.62
3:A:1073:LEU:O	3:A:1074:MET:C	2.33	0.62
3:A:1077:LEU:O	3:A:1080:LEU:N	2.32	0.62
4:B:96:ASP:CB	4:B:423:LEU:H	2.12	0.62
4:B:514:LYS:HZ3	4:B:873:ARG:NH1	1.98	0.62
4:B:908:LEU:HD22	4:B:966:ILE:HG21	1.79	0.62
5:D:148:TYR:CZ	5:D:171:MET:HA	2.35	0.62
6:E:228:LEU:N	6:E:228:LEU:HD22	2.14	0.62
6:E:234:PHE:HB3	6:E:239:SER:O	1.99	0.62
6:E:533:LYS:HG3	6:E:550:ILE:HG22	1.79	0.62
7:F:17:ARG:CZ	7:F:67:ASP:OD2	2.46	0.62
8:G:129:ARG:N	8:G:134:ALA:HA	2.14	0.62
8:G:249:LEU:CG	8:G:262:ILE:HD12	2.27	0.62
8:G:287:GLU:HB2	8:G:297:ARG:CB	2.29	0.62
9:Y:43:ARG:CD	9:Y:105:ILE:HA	2.29	0.62
1:1:75:DA:N6	2:2:52:DA:C6	2.68	0.62
1:1:119:DA:C2	2:2:6:DA:C4	2.86	0.62
2:2:43:DG:N2	2:2:44:DA:C2	2.67	0.62
3:A:58:ASP:CG	3:A:62:LYS:H	2.02	0.62
3:A:151:SER:HB3	3:A:161:TYR:HD1	1.64	0.62
3:A:229:PHE:O	3:A:233:GLU:HB2	2.00	0.62
3:A:453:VAL:HG12	3:A:459:LEU:HD22	1.80	0.62
3:A:609:ARG:HB2	3:A:636:ARG:N	2.15	0.62
3:A:727:ARG:H	3:A:734:GLU:CD	2.02	0.62
3:A:743:VAL:HG12	3:A:747:ALA:HB1	1.81	0.62
3:A:940:ARG:HE	3:A:946:ASP:HA	1.65	0.62
4:B:103:GLU:CB	4:B:424:LEU:HD12	2.29	0.62
4:B:149:ASP:OD2	4:B:153:GLU:HB3	2.00	0.62
4:B:223:ARG:HB3	4:B:224:PRO:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:623:VAL:HG22	4:B:772:GLN:HB2	1.80	0.62
4:B:816:ILE:N	4:B:833:VAL:O	2.32	0.62
4:B:1082:PRO:HB3	4:B:1088:SER:CB	2.28	0.62
4:B:1239:VAL:CG1	4:B:1240:ILE:N	2.62	0.62
5:C:55:ALA:HB3	5:C:141:ARG:CD	2.29	0.62
5:D:76:LEU:O	5:D:79:ILE:N	2.32	0.62
5:D:166:ILE:HG12	5:D:167:ASP:N	2.13	0.62
6:E:217:LYS:O	6:E:221:ARG:NH1	2.33	0.62
6:E:571:THR:OG1	6:E:572:GLU:OE1	2.16	0.62
8:G:322:LEU:HA	8:G:325:VAL:HG12	1.81	0.62
8:G:351:LEU:C	8:G:354:ILE:HG22	2.19	0.62
9:X:115:ASN:OD1	9:X:118:LEU:HG	1.99	0.62
9:Y:57:VAL:HB	9:Y:91:HIS:N	2.13	0.62
1:1:62:DT:OP2	1:1:62:DT:H6	1.82	0.62
1:1:84:DA:C2	2:2:42:DT:C5	2.87	0.62
3:A:340:LEU:O	3:A:341:ASN:C	2.34	0.62
3:A:435:THR:HG21	3:A:442:GLY:H	1.64	0.62
3:A:488:LEU:HG	3:A:525:ASP:OD2	2.00	0.62
3:A:684:GLN:O	3:A:978:TYR:HA	2.00	0.62
3:A:1025:LEU:HD13	3:A:1034:LEU:CD1	2.30	0.62
4:B:64:SER:HA	4:B:67:GLU:OE2	1.99	0.62
4:B:189:ARG:CZ	4:B:330:LEU:O	2.48	0.62
4:B:444:ASP:CG	4:B:446:ALA:H	2.03	0.62
4:B:536:GLU:OE1	4:B:536:GLU:N	2.33	0.62
4:B:575:ARG:CZ	4:B:575:ARG:HA	2.30	0.62
4:B:616:LYS:CG	4:B:619:LEU:O	2.45	0.62
4:B:681:LEU:CD1	4:B:683:GLU:H	2.13	0.62
5:C:148:TYR:CA	5:C:169:ILE:HA	2.20	0.62
5:C:206:PRO:O	5:C:207:GLN:C	2.34	0.62
5:D:82:MET:O	5:D:85:VAL:HG13	1.99	0.62
5:D:184:ARG:HA	5:D:186:ASP:OD1	2.00	0.62
5:D:194:LEU:HD23	5:D:195:LEU:N	2.13	0.62
6:E:202:LEU:HD21	6:E:235:ILE:HG22	1.80	0.62
6:E:220:LYS:CD	6:E:223:LYS:HE3	2.28	0.62
6:E:517:ALA:O	6:E:521:THR:HG22	2.00	0.62
6:E:540:ASP:O	6:E:541:VAL:C	2.38	0.62
8:G:249:LEU:HD22	8:G:265:ARG:NH1	2.14	0.62
9:X:47:LEU:HD11	9:X:52:VAL:CG2	2.22	0.62
9:X:52:VAL:HG22	9:X:98:VAL:HA	1.82	0.62
9:Y:168:ILE:O	9:Y:212:VAL:HB	1.99	0.62
2:2:64:DA:H2"	2:2:65:DA:N7	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:220:GLN:HG2	3:A:221:LYS:N	2.15	0.62
3:A:608:VAL:HA	3:A:615:PRO:HG3	1.80	0.62
3:A:613:GLN:CG	3:A:614:LEU:H	2.10	0.62
4:B:90:ARG:HD2	4:B:91:PHE:N	2.15	0.62
4:B:95:ILE:HG23	4:B:96:ASP:OD1	2.00	0.62
4:B:97:THR:HA	4:B:422:GLN:HG2	1.79	0.62
4:B:359:LEU:O	4:B:390:ARG:HB3	2.00	0.62
4:B:462:GLN:CA	4:B:472:THR:HG21	2.29	0.62
4:B:537:ILE:C	4:B:837:SER:HA	2.20	0.62
4:B:713:GLU:HB2	4:B:717:GLN:N	2.14	0.62
4:B:1101:GLY:O	4:B:1109:CYS:HB2	2.00	0.62
4:B:1221:THR:O	4:B:1224:ALA:HB3	2.00	0.62
5:D:59:ALA:HA	5:D:162:ASP:CG	2.20	0.62
5:D:181:GLU:CD	5:D:193:ARG:HB2	2.18	0.62
6:E:511:GLN:N	6:E:511:GLN:CD	2.52	0.62
6:E:533:LYS:CB	6:E:556:VAL:HG13	2.29	0.62
6:E:537:SER:C	6:E:539:ASP:N	2.51	0.62
6:E:564:VAL:HG12	6:E:565:GLU:O	1.99	0.62
8:G:284:ILE:N	8:G:284:ILE:HD12	2.15	0.62
9:Y:53:LYS:CD	9:Y:68:LEU:CD2	2.77	0.62
1:1:101:DT:N3	1:1:102:DA:C5	2.67	0.62
4:B:200:LEU:O	4:B:201:VAL:C	2.34	0.62
4:B:232:LEU:N	4:B:232:LEU:HD22	2.14	0.62
4:B:244:VAL:HG22	4:B:262:THR:H	1.65	0.62
4:B:461:GLU:H	4:B:474:ALA:C	2.04	0.62
4:B:604:LEU:HD13	4:B:631:TRP:HE3	1.65	0.62
4:B:1045:GLU:OE1	4:B:1046:ALA:N	2.32	0.62
4:B:1154:ILE:HG23	4:B:1188:ALA:HB1	1.82	0.62
6:E:296:GLU:N	6:E:296:GLU:CD	2.40	0.62
8:G:132:GLU:N	8:G:141:LEU:HD13	2.15	0.62
8:G:162:ASN:O	8:G:163:LEU:CG	2.43	0.62
8:G:199:ASP:OD2	8:G:201:GLU:HB2	1.99	0.62
8:G:313:VAL:HG13	8:G:314:SER:H	1.63	0.62
8:G:319:ARG:O	8:G:322:LEU:HB3	2.00	0.62
9:Y:48:LEU:N	9:Y:99:GLU:O	2.33	0.62
9:Y:69:LEU:HD21	9:Y:73:SER:C	2.20	0.62
3:A:32:GLU:C	3:A:32:GLU:CD	2.57	0.61
3:A:597:ASP:CG	3:A:662:ARG:HH11	2.03	0.61
3:A:598:VAL:HG13	3:A:660:GLY:H	1.65	0.61
3:A:609:ARG:HA	3:A:635:ILE:HG13	1.82	0.61
3:A:1037:LEU:HD23	3:A:1037:LEU:C	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:26:THR:O	4:B:27:ALA:C	2.36	0.61
4:B:99:ASN:HB3	4:B:423:LEU:CA	2.29	0.61
4:B:208:ILE:HG22	4:B:209:ILE:N	2.13	0.61
4:B:510:LEU:H	4:B:875:GLN:NE2	1.98	0.61
4:B:535:ARG:HG2	4:B:840:LEU:HD23	1.81	0.61
4:B:579:GLY:H	4:B:817:GLU:HB3	1.64	0.61
4:B:842:ARG:CD	4:B:845:ALA:CB	2.66	0.61
4:B:1091:HIS:ND1	4:B:1092:GLU:N	2.47	0.61
5:D:72:ARG:HB3	5:D:73:GLU:OE1	2.00	0.61
5:D:216:ILE:O	5:D:219:ASP:HB3	2.00	0.61
6:E:64:GLY:O	6:E:99:ARG:HD2	2.00	0.61
6:E:129:LEU:CD2	6:E:193:LEU:HD11	2.19	0.61
6:E:250:PRO:C	6:E:251:VAL:HG23	2.19	0.61
6:E:555:TYR:O	6:E:556:VAL:HG23	2.00	0.61
6:E:571:THR:OG1	6:E:572:GLU:N	2.19	0.61
1:1:72:DT:H2"	1:1:73:DA:H5'	1.81	0.61
1:1:96:DC:H2"	1:1:97:DT:H71	1.82	0.61
1:1:103:DA:H5'	1:1:103:DA:C8	2.35	0.61
1:1:103:DA:H2"	8:G:165:LEU:HD11	1.82	0.61
1:1:119:DA:H2	2:2:7:DT:C2	2.17	0.61
2:2:40:DC:H2"	2:2:41:DC:H6	1.64	0.61
3:A:675:THR:O	3:A:675:THR:OG1	2.13	0.61
4:B:117:ASN:HB3	4:B:120:ASN:HB3	1.82	0.61
4:B:304:ALA:HA	6:E:500:PRO:CA	2.29	0.61
4:B:437:ASN:O	4:B:1003:LYS:HG2	2.00	0.61
4:B:503:ARG:HD3	4:B:503:ARG:C	2.20	0.61
5:C:37:GLY:O	5:C:38:ASN:C	2.37	0.61
5:C:41:ARG:O	5:C:42:ARG:C	2.37	0.61
6:E:437:HIS:CE1	6:E:439:LEU:HB2	2.34	0.61
8:G:112:GLU:CD	8:G:113:LEU:N	2.53	0.61
8:G:338:ARG:CG	8:G:343:LEU:HB3	2.31	0.61
9:X:95:PHE:CE2	9:X:96:THR:HB	2.35	0.61
9:Y:197:LEU:HD12	9:Y:198:ARG:CG	2.25	0.61
3:A:273:GLY:O	3:A:274:ARG:C	2.39	0.61
3:A:513:ARG:HD3	3:A:513:ARG:N	2.14	0.61
3:A:866:LEU:HB3	3:A:870:ASP:OD1	1.99	0.61
3:A:1085:ALA:O	3:A:1086:VAL:C	2.33	0.61
4:B:93:LYS:HZ3	4:B:376:ALA:H	0.65	0.61
4:B:564:ILE:HG13	4:B:830:LEU:HD11	1.83	0.61
4:B:1078:PRO:O	4:B:1100:LEU:HD12	1.99	0.61
4:B:1129:TYR:C	4:B:1130:GLN:NE2	2.53	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:112:VAL:HG21	6:E:310:VAL:HG21	1.82	0.61
6:E:520:LEU:HD21	6:E:611:GLY:HA3	1.82	0.61
6:E:546:GLN:N	6:E:546:GLN:CD	2.52	0.61
9:X:108:VAL:HA	9:X:112:LEU:HB2	1.82	0.61
1:1:79:DA:C8	1:1:80:DA:C2	2.88	0.61
3:A:112:GLN:CD	3:A:361:PRO:HG2	2.21	0.61
3:A:207:ASN:O	3:A:211:ASP:HB2	2.00	0.61
3:A:493:GLY:HA3	3:A:528:ALA:HB3	1.81	0.61
3:A:503:ILE:HG22	3:A:504:ILE:H	1.66	0.61
3:A:550:ALA:O	3:A:551:ASN:C	2.35	0.61
3:A:559:MET:O	3:A:560:GLN:C	2.29	0.61
3:A:631:LYS:O	3:A:633:GLN:CD	2.39	0.61
3:A:791:ILE:HG12	8:G:376:LEU:HD11	1.81	0.61
3:A:889:VAL:HG22	4:B:140:LEU:HD21	1.82	0.61
4:B:79:ARG:HB3	4:B:84:GLU:HB2	1.83	0.61
4:B:91:PHE:CE1	4:B:156:ASP:HB2	2.36	0.61
4:B:107:ASP:HB3	4:B:354:ASP:N	2.16	0.61
4:B:447:SER:HB3	4:B:991:GLY:H	1.65	0.61
4:B:457:GLU:OE2	4:B:481:TRP:CH2	2.53	0.61
4:B:544:VAL:HG21	4:B:832:LEU:CB	2.30	0.61
4:B:687:LYS:HD2	4:B:739:ARG:NH1	2.14	0.61
4:B:792:ARG:HD3	4:B:793:THR:H	1.66	0.61
4:B:816:ILE:HG13	4:B:833:VAL:CG2	2.11	0.61
4:B:1222:GLU:O	4:B:1226:GLU:OE1	2.17	0.61
4:B:1226:GLU:N	4:B:1226:GLU:CD	2.49	0.61
5:C:77:GLU:O	5:C:81:ARG:N	2.31	0.61
5:C:78:ILE:C	5:C:80:MET:N	2.47	0.61
5:C:101:VAL:CG1	5:C:136:LEU:CD1	2.78	0.61
5:C:179:SER:HG	5:C:180:VAL:H	1.41	0.61
5:D:98:ARG:HA	5:D:139:GLU:CB	2.29	0.61
5:D:216:ILE:O	5:D:219:ASP:HB2	1.98	0.61
6:E:138:GLN:OE1	6:E:138:GLN:N	2.33	0.61
7:F:36:ALA:O	7:F:37:ASN:C	2.35	0.61
7:F:59:LEU:HD22	7:F:59:LEU:N	2.15	0.61
8:G:214:ILE:O	8:G:217:ALA:N	2.32	0.61
1:1:85:DG:N2	2:2:41:DC:O2	2.34	0.61
1:1:88:DA:H8	1:1:88:DA:C5'	2.12	0.61
3:A:72:TYR:O	3:A:73:LYS:C	2.39	0.61
3:A:224:GLU:O	3:A:226:GLU:OE1	2.18	0.61
3:A:252:GLY:O	3:A:254:GLN:N	2.32	0.61
3:A:583:ALA:O	3:A:585:ASP:N	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:606:ILE:H	3:A:609:ARG:HE	1.48	0.61
3:A:868:ILE:O	3:A:868:ILE:HG12	2.01	0.61
3:A:956:LYS:HB3	3:A:971:PRO:HB2	1.82	0.61
3:A:1049:ASN:O	3:A:1052:LEU:N	2.33	0.61
4:B:84:GLU:OE1	4:B:84:GLU:N	2.29	0.61
4:B:285:PRO:HD3	4:B:298:CYS:O	2.01	0.61
4:B:330:LEU:C	4:B:332:MET:H	2.04	0.61
4:B:544:VAL:HG21	4:B:832:LEU:HB2	1.80	0.61
4:B:631:TRP:O	4:B:741:VAL:HA	2.00	0.61
4:B:655:GLU:HG3	4:B:657:GLY:H	1.65	0.61
4:B:725:ILE:HG12	4:B:736:LEU:HD23	1.81	0.61
4:B:916:VAL:H	4:B:943:VAL:HG11	1.62	0.61
5:C:119:GLU:HG2	5:C:120:VAL:O	2.01	0.61
6:E:154:GLU:HB2	6:E:182:GLN:HB3	1.82	0.61
7:F:36:ALA:O	7:F:39:ALA:N	2.33	0.61
8:G:111:LEU:HD23	8:G:112:GLU:N	2.14	0.61
8:G:120:LEU:HG	8:G:124:LEU:HD21	1.82	0.61
9:X:47:LEU:CA	9:X:100:LEU:CD2	2.66	0.61
9:Y:157:CYS:HA	9:Y:161:GLY:CA	2.29	0.61
1:1:86:DG:C1’	1:1:87:DA:H5’	2.30	0.61
1:1:92:DT:N3	1:1:93:DT:C4	2.69	0.61
1:1:112:DG:H3’	3:A:414:ARG:NH1	2.14	0.61
3:A:101:LEU:CB	3:A:109:ILE:HG22	2.31	0.61
3:A:154:ASP:OD1	3:A:154:ASP:N	2.32	0.61
3:A:184:TRP:CD2	3:A:193:LEU:HD11	2.34	0.61
3:A:336:VAL:O	3:A:337:ARG:C	2.39	0.61
3:A:524:VAL:HG12	3:A:525:ASP:N	2.16	0.61
3:A:898:VAL:HG23	3:A:899:PHE:N	2.14	0.61
3:A:904:GLY:O	3:A:905:TRP:C	2.38	0.61
4:B:91:PHE:C	4:B:93:LYS:H	2.04	0.61
4:B:99:ASN:CG	4:B:424:LEU:H	2.01	0.61
4:B:103:GLU:OE1	4:B:354:ASP:HB2	2.00	0.61
4:B:173:ILE:O	4:B:174:ILE:C	2.39	0.61
4:B:220:ILE:H	4:B:281:VAL:HG13	1.65	0.61
4:B:222:VAL:O	4:B:223:ARG:HG3	2.01	0.61
4:B:552:THR:HG1	4:B:563:LEU:HB2	1.66	0.61
4:B:614:LYS:NZ	4:B:621:TYR:HA	2.10	0.61
4:B:807:HIS:O	4:B:807:HIS:CG	2.52	0.61
4:B:1010:GLY:O	4:B:1011:LEU:C	2.38	0.61
4:B:1123:ASN:OD1	4:B:1123:ASN:N	2.27	0.61
6:E:201:ASN:C	6:E:201:ASN:OD1	2.37	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:312:ALA:O	6:E:313:LEU:C	2.36	0.61
8:G:288:THR:HG23	8:G:288:THR:O	1.99	0.61
8:G:380:ASN:H	8:G:383:SER:HB2	1.65	0.61
1:1:85:DG:H1'	1:1:86:DG:C5'	2.23	0.61
1:1:99:DT:C6	8:G:212:TRP:CE3	2.89	0.61
1:1:108:DA:N3	1:1:109:DG:N2	2.48	0.61
2:2:31:DA:N3	2:2:31:DA:C2'	2.61	0.61
3:A:1043:ASP:O	3:A:1044:ASP:C	2.31	0.61
3:A:1045:MET:O	3:A:1046:GLN:C	2.39	0.61
4:B:72:GLU:HA	4:B:418:VAL:HG12	1.81	0.61
4:B:89:GLU:HA	4:B:369:ARG:O	1.99	0.61
4:B:96:ASP:HB3	4:B:423:LEU:H	1.66	0.61
4:B:103:GLU:O	4:B:106:LYS:N	2.34	0.61
4:B:144:ARG:NH2	4:B:163:PHE:HE2	1.99	0.61
4:B:251:PRO:O	4:B:253:THR:N	2.34	0.61
4:B:478:GLY:O	4:B:974:VAL:N	2.27	0.61
4:B:519:HIS:O	4:B:865:ILE:CG2	2.44	0.61
4:B:553:VAL:HG23	4:B:561:ASN:N	2.14	0.61
4:B:766:ILE:CB	4:B:799:ILE:CD1	2.78	0.61
4:B:799:ILE:HG22	4:B:807:HIS:NE2	2.16	0.61
4:B:982:ILE:CD1	4:B:994:LEU:HD23	2.29	0.61
5:C:101:VAL:CB	5:C:136:LEU:CD1	2.74	0.61
5:D:57:ARG:CZ	5:D:163:PHE:HA	2.31	0.61
6:E:311:ASP:O	6:E:312:ALA:C	2.34	0.61
8:G:192:ILE:O	8:G:193:ARG:C	2.33	0.61
8:G:373:LEU:HB3	8:G:377:ARG:HE	1.65	0.61
9:X:33:THR:CG2	9:X:91:HIS:HE1	1.98	0.61
1:1:75:DA:H1'	1:1:76:DC:O5'	2.01	0.61
1:1:97:DT:H2'	1:1:97:DT:O5'	1.99	0.61
1:1:119:DA:N6	2:2:6:DA:OP2	2.33	0.61
3:A:137:ILE:CD1	3:A:384:SER:HA	2.31	0.61
3:A:166:ILE:HG23	3:A:172:TRP:NE1	2.14	0.61
3:A:199:LEU:HD23	3:A:229:PHE:CZ	2.36	0.61
3:A:378:PHE:O	3:A:380:SER:N	2.33	0.61
3:A:439:PRO:HG2	3:A:440:ASN:OD1	2.00	0.61
3:A:636:ARG:O	3:A:636:ARG:HG2	2.01	0.61
3:A:868:ILE:HG23	3:A:869:GLU:N	2.14	0.61
3:A:1036:GLU:CD	3:A:1036:GLU:C	2.58	0.61
4:B:91:PHE:HE1	4:B:156:ASP:OD2	1.84	0.61
4:B:93:LYS:HB2	4:B:372:HIS:NE2	2.16	0.61
4:B:355:GLY:HA2	4:B:412:ILE:HG12	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:574:LEU:HD23	4:B:578:PRO:HD2	1.82	0.61
4:B:701:ILE:HG12	4:B:729:GLU:HB3	1.82	0.61
4:B:860:LYS:HB3	4:B:863:ASP:OD2	2.01	0.61
4:B:1245:ILE:CG2	4:B:1246:PRO:HD2	2.29	0.61
5:C:51:THR:HG22	5:C:144:ARG:CA	2.28	0.61
5:D:37:GLY:O	5:D:38:ASN:C	2.37	0.61
5:D:57:ARG:NE	5:D:163:PHE:HA	2.15	0.61
5:D:147:GLY:C	5:D:148:TYR:HD1	2.04	0.61
6:E:389:ILE:O	6:E:390:ASN:C	2.32	0.61
6:E:521:THR:O	6:E:521:THR:OG1	2.16	0.61
6:E:576:VAL:HA	6:E:586:VAL:HA	1.81	0.61
7:F:33:VAL:HG23	7:F:34:GLN:N	2.14	0.61
8:G:359:ASN:OD1	8:G:361:THR:CG2	2.49	0.61
2:2:64:DA:OP1	2:2:64:DA:H2'	2.01	0.61
3:A:58:ASP:N	3:A:63:LEU:O	2.34	0.61
3:A:96:TYR:CD2	3:A:115:PHE:N	2.68	0.61
3:A:141:ILE:HG22	3:A:403:SER:O	2.00	0.61
3:A:335:GLN:NE2	3:A:373:ALA:HB1	2.15	0.61
3:A:617:ALA:HA	3:A:620:LYS:HG3	1.81	0.61
3:A:762:TRP:CD1	3:A:762:TRP:C	2.69	0.61
4:B:90:ARG:HD2	4:B:90:ARG:C	2.21	0.61
4:B:503:ARG:NH2	4:B:505:GLU:HB3	2.16	0.61
4:B:521:GLY:H	4:B:865:ILE:N	1.97	0.61
4:B:537:ILE:N	4:B:838:LEU:N	2.48	0.61
4:B:770:ALA:HA	4:B:795:LEU:HG	1.83	0.61
4:B:1105:GLY:O	4:B:1108:ALA:N	2.34	0.61
4:B:1226:GLU:CG	6:E:233:ASN:HD21	2.13	0.61
4:B:1237:GLU:OE1	4:B:1237:GLU:N	2.33	0.61
6:E:206:ALA:CA	6:E:210:ARG:HG3	2.31	0.61
6:E:372:GLN:HG2	6:E:447:ILE:HD13	1.83	0.61
8:G:290:ILE:HG13	8:G:291:GLY:N	2.16	0.61
9:X:46:PHE:N	9:X:101:LEU:O	2.34	0.61
9:Y:95:PHE:CE2	9:Y:96:THR:HB	2.35	0.61
9:Y:169:THR:HG22	9:Y:212:VAL:O	1.99	0.61
2:2:7:DT:H1'	2:2:8:DC:H5'	1.83	0.61
3:A:122:MET:CG	3:A:123:THR:H	2.14	0.61
3:A:298:LEU:CA	3:A:301:VAL:HG22	2.27	0.61
3:A:374:ILE:C	3:A:376:GLU:N	2.47	0.61
4:B:82:ARG:HB3	4:B:84:GLU:OE1	2.01	0.61
4:B:711:GLY:H	4:B:719:ALA:H	1.49	0.61
4:B:1227:GLY:HA2	6:E:14:ILE:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:63:HIS:CD2	5:C:63:HIS:C	2.73	0.61
5:D:217:LEU:O	5:D:218:VAL:C	2.40	0.61
6:E:307:GLN:HG3	6:E:308:GLU:N	2.12	0.61
6:E:542:ILE:O	6:E:543:MET:C	2.34	0.61
9:X:35:PHE:HE1	9:X:88:ARG:CG	2.06	0.61
9:X:69:LEU:HD21	9:X:73:SER:C	2.20	0.61
9:Y:43:ARG:NH1	9:Y:108:VAL:HG21	2.16	0.61
9:Y:43:ARG:HD3	9:Y:105:ILE:HA	1.82	0.61
9:Y:206:HIS:H	9:Y:209:LYS:N	1.97	0.61
1:1:96:DC:C2'	1:1:97:DT:H71	2.31	0.60
1:1:101:DT:C2	1:1:102:DA:C8	2.89	0.60
3:A:540:SER:OG	3:A:541:MET:HE2	2.00	0.60
3:A:579:GLU:OE2	3:A:580:ALA:N	2.34	0.60
3:A:943:THR:CG2	3:A:945:LYS:HG2	2.31	0.60
4:B:198:ARG:HH12	6:E:346:ARG:HH22	1.49	0.60
4:B:378:PHE:CE1	4:B:413:VAL:CB	2.83	0.60
4:B:523:VAL:HG22	4:B:866:VAL:H	1.66	0.60
4:B:1021:ARG:C	4:B:1023:PRO:HD3	2.20	0.60
4:B:1052:ILE:HG13	4:B:1052:ILE:O	1.99	0.60
5:C:108:THR:HG21	5:C:124:THR:HA	1.81	0.60
5:C:214:ALA:O	5:C:215:GLY:C	2.37	0.60
5:D:207:GLN:OE1	5:D:207:GLN:N	2.34	0.60
5:D:214:ALA:O	5:D:215:GLY:C	2.37	0.60
6:E:78:ARG:HG2	6:E:80:ARG:H	1.66	0.60
6:E:261:GLN:HE21	6:E:262:LEU:N	1.99	0.60
7:F:17:ARG:HD3	7:F:67:ASP:HB3	1.82	0.60
8:G:262:ILE:O	8:G:266:MET:N	2.34	0.60
9:X:88:ARG:HG3	9:X:90:TYR:O	2.01	0.60
9:Y:43:ARG:HG2	9:Y:105:ILE:HG13	1.83	0.60
2:2:35:DA:C4	2:2:36:DT:C5	2.90	0.60
3:A:63:LEU:HA	3:A:103:ASN:HA	1.82	0.60
3:A:296:ASP:O	3:A:297:ILE:C	2.38	0.60
3:A:328:VAL:HG23	3:A:329:GLY:H	1.65	0.60
3:A:970:ARG:NH2	4:B:119:LEU:O	2.33	0.60
4:B:6:ARG:HB3	4:B:12:GLN:HE22	1.64	0.60
4:B:26:THR:O	4:B:29:THR:HG23	2.00	0.60
4:B:378:PHE:HE1	4:B:413:VAL:CB	2.14	0.60
4:B:525:LEU:CA	4:B:859:VAL:HG11	2.31	0.60
4:B:701:ILE:CG1	4:B:729:GLU:HB3	2.31	0.60
4:B:714:LEU:H	4:B:717:GLN:H	1.49	0.60
5:C:27:PRO:O	5:C:192:ASP:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:182:GLU:HG3	5:C:184:ARG:H	1.66	0.60
5:D:55:ALA:HB3	5:D:141:ARG:CD	2.29	0.60
6:E:226:LYS:O	6:E:227:ARG:C	2.36	0.60
6:E:329:ARG:HH12	8:G:289:PRO:HG3	1.62	0.60
8:G:190:GLY:O	8:G:191:LEU:C	2.38	0.60
2:2:58:DA:C4	2:2:59:DG:C5	2.89	0.60
3:A:163:ALA:O	3:A:164:SER:OG	2.20	0.60
3:A:452:ARG:O	3:A:459:LEU:HA	2.01	0.60
3:A:604:THR:O	3:A:604:THR:HG22	2.01	0.60
4:B:259:PRO:HG2	4:B:260:ARG:N	2.16	0.60
4:B:785:VAL:HG23	4:B:786:GLU:H	1.67	0.60
4:B:839:VAL:HG12	4:B:840:LEU:O	2.01	0.60
4:B:988:VAL:CG1	4:B:994:LEU:HD11	2.25	0.60
5:C:49:GLU:OE1	5:C:50:GLY:N	2.32	0.60
5:D:176:VAL:O	5:D:176:VAL:HG13	2.00	0.60
6:E:28:ARG:HE	6:E:102:ARG:CZ	2.13	0.60
9:X:47:LEU:CB	9:X:100:LEU:HD23	2.31	0.60
9:X:169:THR:HG22	9:X:212:VAL:O	1.99	0.60
9:Y:52:VAL:HG13	9:Y:95:PHE:HB3	1.83	0.60
9:Y:126:LEU:CD2	9:Y:130:ILE:CG1	2.79	0.60
1:1:67:DC:N4	2:2:59:DG:H1	1.98	0.60
1:1:101:DT:O4	1:1:102:DA:N6	2.35	0.60
2:2:7:DT:O3'	2:2:8:DC:H2'	2.01	0.60
2:2:31:DA:H2'	2:2:32:DA:O4'	2.02	0.60
2:2:34:DA:C2'	2:2:35:DA:C8	2.82	0.60
3:A:94:GLN:OE1	3:A:94:GLN:N	2.34	0.60
3:A:110:LYS:NZ	3:A:360:THR:HG22	2.15	0.60
3:A:198:LEU:CD2	3:A:208:GLU:CB	2.77	0.60
3:A:198:LEU:HD21	3:A:298:LEU:HB3	1.82	0.60
3:A:260:ARG:HB3	3:A:261:PHE:CE1	2.36	0.60
3:A:618:SER:OG	3:A:662:ARG:NH2	2.34	0.60
4:B:21:PHE:O	4:B:22:THR:C	2.40	0.60
4:B:43:TYR:O	4:B:46:ARG:N	2.34	0.60
4:B:390:ARG:O	4:B:391:LYS:HG3	2.00	0.60
4:B:919:GLY:HA2	4:B:939:GLN:NE2	2.15	0.60
4:B:1195:LEU:O	4:B:1199:LYS:HB2	2.01	0.60
4:B:1231:TRP:NE1	6:E:11:TYR:HB3	2.13	0.60
5:C:176:VAL:HG13	5:C:176:VAL:O	2.00	0.60
5:C:214:ALA:HB3	5:D:225:LYS:CG	2.31	0.60
5:D:78:ILE:C	5:D:80:MET:N	2.47	0.60
5:D:203:SER:OG	5:D:204:ILE:HG12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:275:LEU:O	6:E:278:ARG:HB3	2.00	0.60
6:E:587:LEU:N	6:E:587:LEU:CD1	2.60	0.60
8:G:82:ILE:HD13	8:G:180:PHE:CD1	2.36	0.60
8:G:114:GLU:OE2	8:G:115:ARG:HG2	1.99	0.60
8:G:235:LEU:HD12	8:G:238:THR:OG1	2.02	0.60
9:X:98:VAL:HG11	9:X:100:LEU:CD1	2.18	0.60
9:Y:43:ARG:HG3	9:Y:44:VAL:HG23	1.82	0.60
9:Y:48:LEU:HG	9:Y:101:LEU:N	2.16	0.60
1:1:74:DT:P	1:1:74:DT:H3'	2.41	0.60
1:1:80:DA:N7	2:2:46:DT:O4	2.34	0.60
1:1:84:DA:OP2	1:1:84:DA:C8	2.54	0.60
1:1:115:DA:H1'	1:1:116:DC:N1	2.17	0.60
1:1:119:DA:C6	2:2:6:DA:N7	2.70	0.60
2:2:27:DA:H4'	2:2:28:DC:OP1	2.01	0.60
3:A:522:GLU:N	3:A:522:GLU:CD	2.51	0.60
3:A:797:ARG:HE	3:A:798:ASP:H	1.47	0.60
4:B:147:MET:O	4:B:154:ILE:HG23	2.01	0.60
4:B:197:THR:HA	4:B:200:LEU:HD12	1.83	0.60
4:B:273:GLU:O	4:B:275:ALA:N	2.35	0.60
4:B:280:VAL:HG22	4:B:281:VAL:H	1.64	0.60
4:B:471:THR:O	4:B:979:VAL:HA	2.02	0.60
4:B:638:GLU:HG3	4:B:683:GLU:HB2	1.83	0.60
5:C:203:SER:OG	5:C:204:ILE:HG12	2.02	0.60
6:E:67:LYS:O	6:E:68:ASP:OD1	2.19	0.60
6:E:146:VAL:HG22	6:E:187:GLY:H	1.66	0.60
6:E:148:LEU:HD13	6:E:149:SER:H	1.66	0.60
8:G:324:LYS:HG3	8:G:325:VAL:N	2.15	0.60
8:G:365:ILE:HD12	8:G:365:ILE:N	2.16	0.60
8:G:374:ARG:HA	8:G:377:ARG:HB2	1.81	0.60
1:1:84:DA:C6	2:2:41:DC:N4	2.70	0.60
3:A:49:GLU:O	3:A:52:SER:N	2.34	0.60
3:A:51:ASN:HA	3:A:54:SER:OG	2.01	0.60
3:A:63:LEU:CD1	3:A:103:ASN:HB3	2.30	0.60
3:A:305:ILE:O	3:A:307:LEU:N	2.35	0.60
3:A:499:GLU:OE1	3:A:500:ASN:HB2	2.02	0.60
3:A:599:VAL:H	3:A:615:PRO:HG3	1.67	0.60
3:A:762:TRP:NE1	3:A:763:VAL:O	2.34	0.60
3:A:1017:PHE:HE2	3:A:1025:LEU:CD1	1.87	0.60
4:B:299:TYR:CE1	4:B:315:VAL:HG21	2.36	0.60
4:B:463:LYS:N	4:B:472:THR:CG2	2.63	0.60
4:B:480:ILE:CD1	4:B:974:VAL:HG21	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:548:GLN:HB2	4:B:753:PRO:HG2	1.82	0.60
4:B:563:LEU:HA	4:B:573:ASN:ND2	2.15	0.60
4:B:639:VAL:H	4:B:683:GLU:HA	1.65	0.60
4:B:713:GLU:HA	4:B:718:VAL:CA	2.30	0.60
4:B:1160:THR:CG2	4:B:1190:TYR:OH	2.48	0.60
4:B:1223:ALA:O	4:B:1226:GLU:N	2.19	0.60
5:C:40:LEU:O	5:C:43:VAL:HG12	2.02	0.60
5:C:140:PHE:C	5:C:140:PHE:CD1	2.71	0.60
6:E:402:LYS:CD	8:G:390:ARG:NH2	2.59	0.60
6:E:496:ASN:C	6:E:497:ILE:HD13	2.22	0.60
8:G:124:LEU:HD23	8:G:124:LEU:N	2.16	0.60
1:1:119:DA:C5	2:2:6:DA:N6	2.70	0.60
3:A:34:GLN:O	3:A:35:ARG:C	2.36	0.60
3:A:219:PHE:HB2	3:A:220:GLN:OE1	2.01	0.60
3:A:499:GLU:CD	3:A:500:ASN:N	2.54	0.60
3:A:618:SER:HA	3:A:621:SER:H	1.67	0.60
3:A:1035:GLN:O	3:A:1036:GLU:C	2.35	0.60
3:A:1055:ILE:HD11	6:E:386:PRO:HB2	1.82	0.60
4:B:95:ILE:HG13	4:B:146:LEU:CD1	2.32	0.60
4:B:174:ILE:HA	4:B:177:TYR:CD2	2.37	0.60
4:B:595:ARG:HH11	4:B:596:TYR:H	1.49	0.60
4:B:614:LYS:HZ1	4:B:622:GLU:N	1.99	0.60
4:B:691:LEU:C	4:B:692:LEU:HD12	2.22	0.60
4:B:871:VAL:HG13	4:B:872:ALA:N	2.17	0.60
5:C:75:VAL:CG1	5:C:76:LEU:HD12	2.32	0.60
5:D:19:HIS:O	5:D:21:SER:OG	2.18	0.60
5:D:49:GLU:HB3	5:D:144:ARG:HD3	1.83	0.60
5:D:49:GLU:OE1	5:D:50:GLY:N	2.32	0.60
5:D:79:ILE:O	5:D:80:MET:C	2.29	0.60
6:E:206:ALA:CA	6:E:210:ARG:HE	2.15	0.60
8:G:122:GLU:OE2	8:G:123:LYS:HG3	2.01	0.60
8:G:131:SER:C	8:G:133:TRP:H	2.04	0.60
8:G:216:GLN:O	8:G:217:ALA:C	2.38	0.60
8:G:246:THR:HG22	8:G:262:ILE:HG21	1.82	0.60
9:Y:33:THR:HA	9:Y:93:VAL:CA	2.29	0.60
1:1:99:DT:N1	8:G:212:TRP:CZ3	2.69	0.60
3:A:57:THR:O	3:A:348:ARG:NH1	2.35	0.60
3:A:255:GLN:O	3:A:258:ASP:OD1	2.19	0.60
3:A:608:VAL:O	3:A:616:THR:N	2.32	0.60
4:B:440:LYS:HA	4:B:1000:GLU:CA	2.31	0.60
4:B:545:VAL:HG13	4:B:829:ARG:NE	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:552:THR:OG1	4:B:563:LEU:HB2	2.01	0.60
4:B:631:TRP:CZ2	4:B:782:VAL:CG2	2.85	0.60
4:B:713:GLU:OE1	4:B:715:LEU:N	2.34	0.60
4:B:1041:GLY:HA3	4:B:1050:LYS:CG	2.30	0.60
4:B:1130:GLN:OE1	4:B:1130:GLN:HA	1.84	0.60
5:C:28:LEU:HB2	5:C:192:ASP:CB	2.31	0.60
5:C:40:LEU:O	5:C:42:ARG:N	2.35	0.60
5:C:207:GLN:OE1	5:C:207:GLN:N	2.34	0.60
5:D:63:HIS:CD2	5:D:63:HIS:C	2.74	0.60
5:D:121:ILE:HG22	5:D:122:ASP:OD1	2.02	0.60
6:E:105:TYR:N	6:E:105:TYR:CD1	2.66	0.60
6:E:257:ARG:HB2	6:E:273:ASN:ND2	2.17	0.60
6:E:284:ASN:O	6:E:285:ARG:C	2.39	0.60
6:E:538:LEU:O	6:E:539:ASP:CG	2.39	0.60
7:F:29:TYR:O	7:F:30:ARG:C	2.38	0.60
8:G:119:ARG:HG3	8:G:120:LEU:N	2.16	0.60
8:G:191:LEU:O	8:G:192:ILE:C	2.35	0.60
3:A:198:LEU:HD11	3:A:298:LEU:HB3	1.84	0.60
3:A:616:THR:O	3:A:619:GLY:O	2.20	0.60
3:A:703:LEU:HB2	3:A:883:VAL:HG12	1.83	0.60
3:A:788:LEU:HD21	8:G:385:LEU:HD13	1.83	0.60
3:A:850:ASP:O	3:A:851:LYS:C	2.36	0.60
3:A:909:THR:HG21	3:A:948:VAL:HG22	1.84	0.60
4:B:53:VAL:HG23	4:B:164:ARG:HG2	1.84	0.60
4:B:96:ASP:O	4:B:423:LEU:N	2.35	0.60
4:B:224:PRO:HD3	4:B:235:LEU:HD13	1.83	0.60
4:B:347:GLN:NE2	4:B:356:THR:CG2	2.54	0.60
4:B:424:LEU:O	4:B:426:GLU:N	2.35	0.60
4:B:539:ILE:O	4:B:835:LEU:HD12	2.01	0.60
4:B:675:THR:H	4:B:681:LEU:HD22	1.67	0.60
4:B:785:VAL:HG23	4:B:786:GLU:N	2.17	0.60
5:C:134:GLY:O	5:C:135:LYS:HG3	2.02	0.60
5:D:40:LEU:O	5:D:42:ARG:N	2.35	0.60
5:D:59:ALA:HB3	5:D:137:GLU:CG	2.30	0.60
6:E:226:LYS:HD3	6:E:229:ARG:HD2	1.82	0.60
8:G:196:GLU:C	8:G:196:GLU:CD	2.55	0.60
1:1:59:DT:H2'	1:1:59:DT:OP2	2.01	0.60
1:1:71:DT:C5'	9:X:145:MET:CE	2.80	0.60
3:A:256:LEU:HD11	3:A:260:ARG:HH21	1.67	0.60
3:A:382:GLN:N	3:A:382:GLN:CD	2.54	0.60
3:A:644:ARG:CA	3:A:719:ILE:HD11	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:651:LEU:C	3:A:651:LEU:HD12	2.22	0.60
4:B:63:ARG:O	4:B:67:GLU:OE1	2.19	0.60
4:B:328:THR:HG23	4:B:329:GLN:N	2.16	0.60
4:B:440:LYS:NZ	4:B:1000:GLU:H	1.97	0.60
4:B:441:ALA:HB3	4:B:999:PHE:CE1	2.37	0.60
4:B:670:GLY:CA	4:B:687:LYS:O	2.40	0.60
4:B:1022:LYS:HG2	4:B:1091:HIS:NE2	2.16	0.60
4:B:1154:ILE:HD11	4:B:1168:VAL:HG12	1.83	0.60
5:C:78:ILE:O	5:C:81:ARG:N	2.35	0.60
5:C:96:ILE:O	5:C:115:PRO:HD3	2.02	0.60
5:D:54:THR:OG1	5:D:55:ALA:N	2.35	0.60
6:E:59:CYS:SG	6:E:62:ILE:HG23	2.41	0.60
6:E:98:VAL:CG1	6:E:102:ARG:CZ	2.80	0.60
8:G:146:TYR:CZ	8:G:150:ILE:CD1	2.80	0.60
9:X:56:ARG:HB3	9:X:90:TYR:CD1	2.36	0.60
9:X:130:ILE:HD12	9:Y:130:ILE:HG23	1.84	0.60
1:1:86:DG:O6	2:2:40:DC:C4	2.45	0.59
1:1:87:DA:C4	1:1:88:DA:C8	2.90	0.59
3:A:176:GLU:OE1	3:A:186:ARG:NH1	2.35	0.59
3:A:789:ARG:NH1	3:A:795:LYS:HA	2.00	0.59
3:A:840:VAL:HG13	3:A:840:VAL:O	2.02	0.59
3:A:937:GLN:HA	3:A:949:TYR:CD2	2.37	0.59
3:A:1090:GLU:HG3	3:A:1091:THR:N	2.16	0.59
4:B:98:TRP:CE3	4:B:98:TRP:HA	2.37	0.59
4:B:267:ASP:CG	4:B:268:LEU:N	2.42	0.59
4:B:360:PRO:HD2	4:B:393:GLY:C	2.23	0.59
4:B:384:ILE:HG21	4:B:394:SER:CB	2.30	0.59
4:B:453:VAL:CG2	4:B:988:VAL:CB	2.65	0.59
4:B:602:GLY:HA3	4:B:633:PRO:HA	1.83	0.59
4:B:678:ASN:CG	4:B:681:LEU:HA	2.23	0.59
4:B:792:ARG:HD3	4:B:793:THR:N	2.17	0.59
4:B:1011:LEU:N	4:B:1011:LEU:HD12	2.14	0.59
4:B:1032:ARG:HB2	4:B:1078:PRO:HA	1.82	0.59
6:E:154:GLU:CG	6:E:155:THR:H	1.99	0.59
7:F:30:ARG:C	7:F:30:ARG:HH11	2.06	0.59
8:G:132:GLU:HA	8:G:135:GLU:OE2	2.02	0.59
9:X:36:PHE:HA	9:X:91:HIS:HA	1.83	0.59
9:X:205:ILE:HG13	9:X:209:LYS:H	1.67	0.59
1:1:97:DT:C2	2:2:29:DA:N1	2.70	0.59
1:1:122:DC:N4	2:2:3:DT:C4	2.70	0.59
2:2:3:DT:H1'	2:2:4:DG:C6	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:34:DA:C5	2:2:35:DA:C5	2.90	0.59
2:2:42:DT:O3'	2:2:43:DG:H2'	2.02	0.59
3:A:44:GLU:O	3:A:47:ILE:N	2.35	0.59
3:A:238:LEU:HB3	3:A:256:LEU:HD23	1.83	0.59
3:A:265:LYS:HG3	3:A:266:ARG:HG3	1.84	0.59
3:A:696:TYR:N	6:E:366:PRO:HG2	2.17	0.59
3:A:704:ILE:HG21	3:A:708:LEU:HD23	1.84	0.59
4:B:524:ARG:O	4:B:525:LEU:C	2.40	0.59
4:B:526:PRO:HG3	4:B:537:ILE:HG12	1.85	0.59
4:B:535:ARG:N	4:B:839:VAL:HG13	2.16	0.59
4:B:536:GLU:O	4:B:536:GLU:HG2	2.02	0.59
4:B:540:ILE:HD13	4:B:835:LEU:HD13	1.84	0.59
4:B:1017:LEU:HD12	4:B:1018:LEU:N	2.17	0.59
4:B:1031:LYS:HA	4:B:1100:LEU:HD21	1.84	0.59
4:B:1239:VAL:C	4:B:1241:ILE:H	2.05	0.59
6:E:141:TYR:O	6:E:143:ASN:HB2	2.02	0.59
6:E:206:ALA:C	6:E:210:ARG:CG	2.70	0.59
7:F:30:ARG:NH1	7:F:30:ARG:HG3	2.18	0.59
8:G:139:LEU:HD12	8:G:140:PRO:CD	2.29	0.59
8:G:338:ARG:CG	8:G:343:LEU:HD22	2.31	0.59
9:Y:49:LYS:CA	9:Y:99:GLU:HB3	2.33	0.59
9:Y:152:PHE:CE2	9:Y:156:LEU:HD21	2.37	0.59
9:Y:207:LYS:O	9:Y:207:LYS:HD3	2.02	0.59
1:1:58:DA:C1'	1:1:59:DT:C4	2.85	0.59
1:1:74:DT:C4	2:2:52:DA:N1	2.68	0.59
1:1:102:DA:H2'	8:G:208:THR:HG23	1.84	0.59
2:2:8:DC:C2	2:2:9:DC:N4	2.70	0.59
2:2:27:DA:H1'	2:2:28:DC:C6	2.37	0.59
3:A:324:ARG:HG3	3:A:457:GLY:O	2.02	0.59
3:A:520:THR:H	3:A:523:GLN:NE2	2.00	0.59
3:A:600:TYR:CD2	3:A:607:ARG:CZ	2.85	0.59
3:A:659:ILE:N	3:A:659:ILE:HD12	2.17	0.59
3:A:789:ARG:HH12	3:A:795:LYS:CA	2.03	0.59
3:A:848:VAL:HG13	3:A:848:VAL:O	2.02	0.59
3:A:900:GLU:HG2	3:A:901:CYS:N	2.16	0.59
3:A:940:ARG:HD3	3:A:949:TYR:HB3	1.84	0.59
3:A:943:THR:O	3:A:945:LYS:N	2.35	0.59
4:B:5:ASN:O	4:B:6:ARG:HG3	2.01	0.59
4:B:82:ARG:NH1	4:B:924:ALA:HB3	2.17	0.59
4:B:367:THR:CA	4:B:370:THR:OG1	2.50	0.59
4:B:547:ASP:N	4:B:829:ARG:HA	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:621:TYR:HD2	4:B:774:LEU:N	1.94	0.59
4:B:663:ASP:O	4:B:664:ILE:HG12	2.01	0.59
4:B:1154:ILE:HG13	4:B:1162:MET:CB	2.33	0.59
5:C:68:VAL:O	5:C:71:VAL:HG12	2.02	0.59
5:D:75:VAL:CG1	5:D:76:LEU:HD12	2.32	0.59
5:D:206:PRO:O	5:D:207:GLN:C	2.34	0.59
6:E:420:GLU:H	6:E:420:GLU:CD	1.99	0.59
6:E:432:ARG:HD2	6:E:471:ASP:HB3	1.83	0.59
6:E:479:LEU:O	6:E:480:SER:C	2.39	0.59
6:E:486:GLU:H	6:E:486:GLU:CD	2.03	0.59
8:G:326:LEU:HD12	8:G:327:ASP:CA	2.32	0.59
9:X:27:THR:HA	9:X:98:VAL:CG1	2.33	0.59
9:Y:28:PHE:HB2	9:Y:94:ALA:CB	2.31	0.59
9:Y:81:LEU:CD2	9:Y:82:THR:CG2	2.70	0.59
1:1:89:DA:C6	1:1:90:DA:C5	2.89	0.59
1:1:94:DT:C2	1:1:95:DT:C5	2.91	0.59
1:1:106:DG:C3'	8:G:171:LYS:HD2	2.30	0.59
2:2:34:DA:C2	2:2:35:DA:C4	2.90	0.59
3:A:899:PHE:HZ	4:B:53:VAL:HG21	1.65	0.59
3:A:1028:PHE:HE1	6:E:438:ARG:HG3	1.66	0.59
4:B:245:GLY:N	4:B:281:VAL:O	2.34	0.59
4:B:604:LEU:O	4:B:606:PHE:N	2.33	0.59
5:C:74:ASP:O	5:C:75:VAL:C	2.40	0.59
5:D:78:ILE:O	5:D:81:ARG:N	2.35	0.59
6:E:598:GLN:O	6:E:602:ILE:HD12	2.02	0.59
8:G:81:SER:CB	8:G:181:GLN:NE2	2.66	0.59
8:G:292:LYS:C	8:G:293:GLU:HG2	2.21	0.59
9:X:188:VAL:HA	9:X:192:ARG:HD3	1.85	0.59
1:1:61:DT:C2	1:1:62:DT:C4	2.90	0.59
2:2:3:DT:C2	2:2:4:DG:C6	2.90	0.59
2:2:52:DA:C2'	2:2:53:DT:H5'	2.20	0.59
3:A:109:ILE:HG13	3:A:110:LYS:H	1.68	0.59
3:A:185:VAL:HG21	3:A:200:LYS:HZ2	1.66	0.59
3:A:299:ALA:HA	3:A:302:ASP:OD2	2.03	0.59
3:A:506:PRO:HA	3:A:521:PRO:CD	2.33	0.59
3:A:577:GLY:HA2	3:A:915:LYS:HD2	1.84	0.59
3:A:639:VAL:HG21	3:A:653:GLN:O	2.02	0.59
3:A:1038:LEU:CD2	3:A:1038:LEU:N	2.62	0.59
4:B:538:GLU:OE1	4:B:538:GLU:N	2.35	0.59
4:B:676:GLN:OE1	4:B:679:ASP:N	2.33	0.59
4:B:927:GLU:OE2	4:B:930:PRO:CB	2.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1077:VAL:CG2	4:B:1083:LEU:HG	2.32	0.59
4:B:1237:GLU:C	4:B:1239:VAL:N	2.50	0.59
5:C:26:GLU:HB2	5:C:27:PRO:HD3	1.83	0.59
5:D:40:LEU:O	5:D:43:VAL:HG12	2.02	0.59
5:D:49:GLU:OE2	5:D:146:LYS:HA	2.00	0.59
5:D:68:VAL:O	5:D:71:VAL:HG12	2.02	0.59
5:D:103:GLY:H	5:D:133:GLY:HA2	1.68	0.59
6:E:511:GLN:O	6:E:512:ASP:C	2.39	0.59
6:E:611:GLY:O	6:E:613:VAL:N	2.35	0.59
6:E:619:ILE:HD12	6:E:619:ILE:N	2.11	0.59
8:G:85:TYR:O	8:G:89:ILE:HG23	2.02	0.59
8:G:173:TYR:HA	8:G:176:ARG:HB2	1.85	0.59
2:2:47:DT:H6	2:2:47:DT:H5"	1.66	0.59
3:A:110:LYS:CE	3:A:360:THR:HA	2.32	0.59
3:A:163:ALA:HB3	3:A:175:PHE:HD2	1.67	0.59
3:A:189:LYS:CG	3:A:190:THR:H	2.11	0.59
3:A:271:ARG:H	3:A:290:ARG:HH12	1.51	0.59
3:A:559:MET:O	3:A:561:ARG:N	2.35	0.59
3:A:568:LYS:HG3	3:A:568:LYS:O	2.02	0.59
3:A:573:LEU:CD2	3:A:685:ASN:HD22	2.15	0.59
3:A:598:VAL:CG1	3:A:661:GLU:H	2.12	0.59
4:B:225:MET:HB2	4:B:238:ARG:NH2	2.18	0.59
4:B:330:LEU:HD21	4:B:1134:ILE:CD1	2.33	0.59
4:B:621:TYR:HD2	4:B:773:ARG:CA	2.15	0.59
4:B:842:ARG:HD3	4:B:845:ALA:CB	2.26	0.59
4:B:943:VAL:CG2	4:B:964:VAL:HG22	2.33	0.59
4:B:943:VAL:HA	4:B:964:VAL:HA	1.85	0.59
4:B:1028:ILE:HG22	4:B:1083:LEU:N	2.17	0.59
4:B:1227:GLY:O	4:B:1228:LYS:C	2.37	0.59
5:C:101:VAL:CG1	5:C:102:ASN:H	2.15	0.59
5:C:121:ILE:HG22	5:C:122:ASP:OD1	2.02	0.59
5:D:154:GLY:O	5:D:155:ARG:CG	2.50	0.59
6:E:210:ARG:HA	6:E:213:ILE:CG1	2.28	0.59
6:E:316:ASN:HB2	6:E:333:SER:OG	2.02	0.59
8:G:163:LEU:HD12	8:G:164:ARG:H	0.66	0.59
8:G:337:LEU:O	8:G:341:TYR:HB2	2.03	0.59
1:1:88:DA:N6	2:2:37:DT:C2	2.71	0.59
1:1:89:DA:C2	1:1:90:DA:C4	2.90	0.59
2:2:47:DT:C6	2:2:48:DT:H72	2.38	0.59
3:A:32:GLU:OE1	3:A:36:SER:OG	2.20	0.59
3:A:138:VAL:HG22	3:A:139:ASN:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:216:PRO:O	3:A:220:GLN:N	2.35	0.59
3:A:225:LYS:C	3:A:225:LYS:HZ3	2.05	0.59
3:A:298:LEU:C	3:A:301:VAL:HG22	2.21	0.59
3:A:658:ARG:C	3:A:659:ILE:HD12	2.23	0.59
3:A:717:ILE:C	3:A:718:HIS:ND1	2.56	0.59
3:A:958:MET:O	3:A:959:VAL:HG13	2.02	0.59
3:A:970:ARG:NH2	4:B:120:ASN:HA	2.04	0.59
4:B:80:TYR:CG	4:B:90:ARG:HG2	2.37	0.59
4:B:269:ALA:O	4:B:270:LYS:C	2.39	0.59
4:B:321:GLN:CB	6:E:436:LEU:HG	2.33	0.59
4:B:437:ASN:ND2	4:B:1068:ASN:OD1	2.36	0.59
4:B:688:PRO:HG2	4:B:739:ARG:HG2	1.85	0.59
4:B:1209:SER:O	4:B:1210:ALA:C	2.41	0.59
5:D:59:ALA:HA	5:D:162:ASP:OD2	2.03	0.59
6:E:224:LEU:O	6:E:225:ILE:C	2.40	0.59
6:E:483:SER:O	6:E:483:SER:OG	2.21	0.59
8:G:120:LEU:C	8:G:128:PRO:HD3	2.23	0.59
9:X:77:VAL:HG11	9:X:126:LEU:HD13	1.84	0.59
9:Y:81:LEU:HD21	9:Y:82:THR:HG23	1.80	0.59
1:1:74:DT:N3	2:2:52:DA:C2	2.68	0.59
3:A:251:LEU:O	3:A:252:GLY:C	2.40	0.59
3:A:277:LEU:O	3:A:278:ASN:C	2.40	0.59
3:A:610:VAL:O	3:A:632:GLY:HA3	2.02	0.59
3:A:1034:LEU:O	3:A:1035:GLN:C	2.38	0.59
4:B:36:LEU:O	4:B:37:LYS:C	2.35	0.59
4:B:100:GLY:HA3	4:B:421:GLY:O	2.03	0.59
4:B:457:GLU:CD	4:B:481:TRP:CH2	2.76	0.59
4:B:492:PRO:HD3	4:B:895:ARG:NH2	2.17	0.59
4:B:537:ILE:HB	4:B:838:LEU:HB2	1.84	0.59
4:B:927:GLU:OE2	4:B:930:PRO:HB3	2.03	0.59
4:B:1035:GLU:OE1	4:B:1054:SER:HB3	2.03	0.59
4:B:1117:VAL:O	4:B:1120:PHE:N	2.35	0.59
4:B:1151:LYS:NZ	4:B:1169:GLU:HG2	2.17	0.59
4:B:1244:LEU:HD23	4:B:1244:LEU:N	2.09	0.59
6:E:131:MET:SD	6:E:159:LYS:HD3	2.42	0.59
6:E:202:LEU:CD1	6:E:235:ILE:CG2	2.78	0.59
8:G:313:VAL:O	8:G:314:SER:C	2.39	0.59
9:X:52:VAL:HG21	9:X:98:VAL:HG13	1.84	0.59
9:Y:53:LYS:HA	9:Y:67:ALA:O	2.02	0.59
9:Y:191:THR:HA	9:Y:194:LEU:HD13	1.85	0.59
1:1:87:DA:C2	1:1:88:DA:C4	2.90	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:94:DT:C2'	1:1:95:DT:H71	2.33	0.59
2:2:44:DA:C1'	2:2:45:DA:H5'	2.32	0.59
2:2:59:DG:C8	2:2:59:DG:C5'	2.86	0.59
2:2:59:DG:C4	2:2:60:DC:C5	2.91	0.59
3:A:332:LEU:O	3:A:335:GLN:N	2.36	0.59
3:A:434:GLU:O	3:A:435:THR:OG1	2.18	0.59
3:A:596:GLY:O	3:A:663:VAL:HG22	2.03	0.59
3:A:697:ASN:H	3:A:701:ALA:HB3	1.66	0.59
3:A:932:VAL:HG13	3:A:933:HIS:H	1.66	0.59
4:B:355:GLY:HA3	4:B:358:LYS:NZ	2.17	0.59
4:B:511:ALA:O	4:B:876:ILE:HG23	2.02	0.59
4:B:914:PRO:HG3	4:B:944:LYS:HZ1	1.68	0.59
5:C:9:VAL:HG11	5:C:22:LYS:CG	2.33	0.59
5:C:116:SER:O	5:C:117:GLU:HB3	2.01	0.59
6:E:375:LEU:H	6:E:449:VAL:HB	1.68	0.59
6:E:547:GLN:N	6:E:547:GLN:OE1	2.36	0.59
8:G:129:ARG:HD2	8:G:129:ARG:H	1.67	0.59
9:Y:213:HIS:O	9:Y:214:LYS:HG3	2.03	0.59
1:1:73:DA:N7	2:2:53:DT:O4	2.35	0.59
1:1:84:DA:C4	2:2:42:DT:O4	2.56	0.59
2:2:4:DG:H1'	2:2:5:DC:C6	2.37	0.59
2:2:55:DA:H2'	2:2:56:DG:C8	2.38	0.59
3:A:27:LEU:HD22	3:A:27:LEU:N	2.17	0.59
3:A:541:MET:HA	3:A:576:THR:HG21	1.85	0.59
3:A:590:ILE:HG22	3:A:670:ALA:N	2.18	0.59
3:A:684:GLN:NE2	3:A:713:ILE:CG2	2.58	0.59
3:A:736:ILE:HD13	3:A:772:LYS:CB	2.33	0.59
4:B:288:CYS:HB2	4:B:298:CYS:SG	2.43	0.59
4:B:910:ILE:HD11	4:B:930:PRO:CD	2.32	0.59
5:C:216:ILE:O	5:C:217:LEU:C	2.39	0.59
6:E:370:ILE:HG23	6:E:457:HIS:CD2	2.38	0.59
7:F:30:ARG:HH11	7:F:30:ARG:HG3	1.68	0.59
8:G:88:GLU:OE2	8:G:89:ILE:HG22	2.03	0.59
9:X:44:VAL:CG2	9:X:108:VAL:HG21	2.33	0.59
9:X:47:LEU:HD23	9:X:69:LEU:HG	1.84	0.59
3:A:113:GLU:C	3:A:113:GLU:CD	2.62	0.58
3:A:374:ILE:C	3:A:376:GLU:H	2.05	0.58
3:A:435:THR:HG22	3:A:436:PRO:CD	2.33	0.58
3:A:606:ILE:CA	3:A:609:ARG:HE	2.16	0.58
3:A:644:ARG:CB	3:A:719:ILE:HD11	2.33	0.58
3:A:813:ARG:O	3:A:840:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:902:LEU:O	3:A:905:TRP:N	2.36	0.58
4:B:366:ARG:CZ	4:B:369:ARG:HE	2.16	0.58
4:B:453:VAL:HG21	4:B:988:VAL:HG11	1.72	0.58
4:B:523:VAL:O	4:B:524:ARG:C	2.40	0.58
4:B:589:ALA:O	4:B:795:LEU:N	2.34	0.58
4:B:882:GLY:N	4:B:899:VAL:HG22	2.18	0.58
4:B:984:ASP:O	4:B:986:ASP:N	2.36	0.58
5:C:148:TYR:CE1	5:C:171:MET:HB2	2.38	0.58
6:E:41:LYS:HB3	6:E:43:GLU:OE2	2.04	0.58
6:E:222:ALA:HA	6:E:225:ILE:HD11	1.84	0.58
6:E:296:GLU:O	6:E:299:VAL:HG12	2.03	0.58
6:E:401:ILE:O	6:E:402:LYS:C	2.41	0.58
9:Y:34:ILE:HG21	9:Y:45:TYR:CD1	2.38	0.58
9:Y:78:LEU:CD2	9:Y:88:ARG:HH11	2.16	0.58
1:1:89:DA:H1'	1:1:90:DA:O5'	2.03	0.58
2:2:47:DT:H2'	2:2:48:DT:H72	1.83	0.58
3:A:90:THR:HA	3:A:130:ILE:HA	1.86	0.58
3:A:240:ARG:O	3:A:241:LYS:HG3	2.03	0.58
3:A:490:VAL:O	3:A:490:VAL:HG13	2.02	0.58
4:B:604:LEU:CD1	4:B:631:TRP:HE3	2.16	0.58
4:B:753:PRO:O	4:B:754:SER:C	2.41	0.58
4:B:776:TYR:C	4:B:777:LYS:HD2	2.23	0.58
4:B:1110:ALA:O	4:B:1114:LEU:N	2.36	0.58
5:C:101:VAL:HB	5:C:136:LEU:HD13	1.84	0.58
5:D:13:THR:HG22	5:D:19:HIS:CG	2.38	0.58
6:E:283:ASN:C	6:E:283:ASN:OD1	2.35	0.58
6:E:614:ILE:O	6:E:615:TYR:C	2.40	0.58
9:X:57:VAL:CG2	9:X:58:TYR:N	2.66	0.58
9:Y:54:LEU:HD11	9:Y:90:TYR:O	2.02	0.58
9:Y:145:MET:HE1	9:Y:192:ARG:HG3	1.82	0.58
1:1:58:DA:N3	1:1:58:DA:O4'	2.32	0.58
3:A:260:ARG:C	3:A:261:PHE:CD1	2.76	0.58
3:A:294:SER:C	3:A:296:ASP:OD1	2.41	0.58
3:A:332:LEU:O	3:A:333:GLN:C	2.40	0.58
3:A:552:ARG:CZ	3:A:555:MET:HE1	2.33	0.58
3:A:571:ARG:NH2	3:A:677:GLY:HA3	2.18	0.58
3:A:762:TRP:N	3:A:813:ARG:NH1	2.51	0.58
3:A:783:PRO:HB2	8:G:342:GLY:HA3	1.85	0.58
3:A:873:TYR:HA	3:A:879:PRO:CA	2.21	0.58
4:B:15:ASN:O	4:B:18:SER:OG	2.20	0.58
4:B:359:LEU:HG	4:B:387:LEU:CA	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:453:VAL:HG13	4:B:455:PHE:HE1	1.67	0.58
4:B:481:TRP:CD1	4:B:970:ARG:C	2.76	0.58
4:B:549:ALA:CB	4:B:564:ILE:HG23	2.30	0.58
4:B:771:VAL:HG11	4:B:796:VAL:HG23	1.84	0.58
5:C:74:ASP:O	5:C:77:GLU:HG3	2.03	0.58
5:C:96:ILE:HG23	5:C:140:PHE:O	2.03	0.58
6:E:73:CYS:SG	6:E:74:GLY:N	2.76	0.58
6:E:385:GLN:HG3	6:E:386:PRO:N	2.11	0.58
8:G:124:LEU:C	8:G:126:ARG:N	2.57	0.58
9:X:75:PHE:CZ	9:X:100:LEU:HD13	2.38	0.58
9:X:177:GLN:CA	9:X:180:ALA:H	2.17	0.58
9:Y:206:HIS:HE1	9:Y:211:THR:HG21	1.68	0.58
2:2:31:DA:C2	2:2:32:DA:C4	2.92	0.58
2:2:34:DA:C4	2:2:35:DA:C5	2.92	0.58
2:2:50:DG:N3	2:2:51:DT:O4'	2.37	0.58
3:A:214:ARG:HH22	3:A:311:ILE:HG13	1.68	0.58
3:A:288:THR:O	3:A:288:THR:OG1	2.10	0.58
3:A:599:VAL:HG23	3:A:600:TYR:N	2.19	0.58
3:A:604:THR:C	3:A:605:GLU:OE1	2.41	0.58
3:A:606:ILE:N	3:A:609:ARG:HH21	1.99	0.58
3:A:784:GLU:O	3:A:787:LEU:HB2	2.03	0.58
3:A:1011:GLN:O	3:A:1011:GLN:HG2	2.03	0.58
3:A:1087:HIS:HA	6:E:9:PHE:HB2	1.85	0.58
4:B:79:ARG:C	4:B:85:ILE:HG12	2.24	0.58
4:B:445:VAL:O	4:B:445:VAL:HG12	2.03	0.58
4:B:525:LEU:O	4:B:527:GLU:N	2.36	0.58
4:B:527:GLU:HB2	4:B:536:GLU:OE2	2.03	0.58
4:B:631:TRP:CD1	4:B:633:PRO:N	2.70	0.58
4:B:872:ALA:C	4:B:873:ARG:HD2	2.23	0.58
4:B:900:LEU:HD21	4:B:967:ARG:HH12	1.68	0.58
4:B:1078:PRO:C	4:B:1100:LEU:HD11	2.24	0.58
5:C:83:LYS:CG	5:C:166:ILE:HD11	2.33	0.58
5:C:101:VAL:CG1	5:C:102:ASN:N	2.66	0.58
5:D:83:LYS:CG	5:D:166:ILE:HD11	2.33	0.58
5:D:96:ILE:HG23	5:D:140:PHE:O	2.03	0.58
6:E:154:GLU:OE2	6:E:179:SER:HB2	2.04	0.58
6:E:206:ALA:O	6:E:210:ARG:NE	2.35	0.58
6:E:233:ASN:O	6:E:234:PHE:C	2.37	0.58
6:E:516:GLY:O	6:E:517:ALA:C	2.38	0.58
8:G:368:ILE:HA	8:G:371:LYS:HB3	1.84	0.58
9:X:166:ASP:OD2	9:X:213:HIS:HD2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:48:DT:H2"	2:2:49:DT:H71	1.85	0.58
3:A:465:PRO:HD2	3:A:475:GLN:HG3	1.85	0.58
3:A:576:THR:HG23	3:A:578:LEU:N	2.16	0.58
3:A:608:VAL:HA	3:A:615:PRO:CG	2.34	0.58
3:A:688:VAL:O	3:A:688:VAL:HG13	2.01	0.58
3:A:727:ARG:NH2	3:A:829:PRO:HB2	2.17	0.58
3:A:990:ILE:C	3:A:991:HIS:ND1	2.57	0.58
3:A:1085:ALA:HB3	6:E:13:LYS:HB3	1.84	0.58
4:B:2:ILE:CD1	6:E:563:ASP:HB2	2.34	0.58
4:B:110:VAL:O	4:B:111:THR:C	2.41	0.58
4:B:352:LYS:HZ3	4:B:389:PRO:HB3	1.68	0.58
4:B:489:ASN:HB2	4:B:849:THR:OG1	2.03	0.58
4:B:525:LEU:O	4:B:526:PRO:C	2.41	0.58
4:B:555:SER:HB2	4:B:559:ARG:O	2.03	0.58
4:B:562:TYR:C	4:B:574:LEU:HD11	2.23	0.58
4:B:582:VAL:HG13	4:B:586:GLN:HB2	1.85	0.58
4:B:588:VAL:HB	4:B:795:LEU:O	2.03	0.58
5:C:54:THR:OG1	5:C:55:ALA:N	2.34	0.58
5:D:74:ASP:O	5:D:77:GLU:HG3	2.03	0.58
5:D:137:GLU:O	5:D:137:GLU:HG3	2.03	0.58
5:D:147:GLY:O	5:D:149:ARG:HB2	2.04	0.58
5:D:216:ILE:O	5:D:217:LEU:C	2.39	0.58
6:E:129:LEU:HD11	6:E:197:LEU:HD11	1.85	0.58
6:E:257:ARG:HB3	6:E:272:LEU:HB2	1.85	0.58
6:E:277:ARG:HG3	6:E:278:ARG:N	2.18	0.58
6:E:303:LYS:O	6:E:306:LEU:N	2.37	0.58
6:E:418:VAL:HG13	6:E:419:LEU:N	2.18	0.58
6:E:482:GLU:O	6:E:485:ALA:N	2.36	0.58
6:E:497:ILE:HD13	6:E:497:ILE:N	2.18	0.58
6:E:504:ARG:NE	6:E:504:ARG:HA	2.17	0.58
8:G:121:SER:N	8:G:128:PRO:HD3	2.19	0.58
9:X:63:GLU:OE1	9:X:63:GLU:N	2.36	0.58
9:Y:49:LYS:C	9:Y:99:GLU:HB3	2.24	0.58
1:1:79:DA:C2'	1:1:80:DA:H5"	2.28	0.58
3:A:67:PHE:CG	3:A:99:THR:CB	2.73	0.58
3:A:184:TRP:CD1	3:A:193:LEU:HD11	2.37	0.58
3:A:370:LEU:O	3:A:371:VAL:C	2.42	0.58
3:A:731:LEU:HD12	3:A:731:LEU:N	2.19	0.58
3:A:789:ARG:O	3:A:790:ALA:C	2.42	0.58
3:A:938:GLU:C	3:A:938:GLU:CD	2.59	0.58
4:B:34:ASP:O	4:B:37:LYS:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:44:ALA:O	4:B:45:THR:C	2.39	0.58
4:B:62:LYS:N	4:B:108:GLU:OE1	2.37	0.58
4:B:93:LYS:HG3	4:B:370:THR:HB	1.85	0.58
4:B:195:TYR:O	4:B:196:LEU:C	2.36	0.58
4:B:321:GLN:HE22	6:E:438:ARG:HG2	1.69	0.58
4:B:520:GLY:HA2	4:B:764:ARG:NH2	2.17	0.58
4:B:606:PHE:HE1	4:B:777:LYS:C	2.06	0.58
4:B:636:THR:HG22	4:B:638:GLU:OE1	2.02	0.58
4:B:705:ASN:HA	4:B:727:TYR:HA	1.86	0.58
4:B:724:TYR:CE2	4:B:726:GLN:HA	2.38	0.58
4:B:732:GLU:O	4:B:734:PRO:HD3	2.03	0.58
4:B:774:LEU:HB2	4:B:790:LEU:O	2.03	0.58
4:B:786:GLU:HG3	4:B:788:VAL:CG2	2.34	0.58
4:B:888:GLN:OE1	4:B:894:VAL:HG11	2.03	0.58
4:B:1154:ILE:CD1	4:B:1173:VAL:HG21	2.33	0.58
5:C:78:ILE:O	5:C:79:ILE:C	2.37	0.58
5:C:107:ILE:HD11	5:C:136:LEU:HD11	1.86	0.58
5:C:195:LEU:HD12	5:C:195:LEU:N	2.18	0.58
6:E:406:LYS:HG3	6:E:410:ARG:HH11	1.68	0.58
6:E:533:LYS:H	6:E:556:VAL:HG22	1.68	0.58
1:1:74:DT:C2	2:2:53:DT:N3	2.71	0.58
1:1:97:DT:C2	1:1:98:DG:N7	2.71	0.58
2:2:46:DT:H2"	2:2:47:DT:H71	1.84	0.58
3:A:135:ARG:NH2	3:A:384:SER:O	2.26	0.58
3:A:465:PRO:HA	3:A:526:TYR:CE1	2.39	0.58
3:A:1091:THR:HG22	3:A:1092:GLN:N	2.18	0.58
4:B:4:ARG:HG2	6:E:565:GLU:HG3	1.85	0.58
4:B:170:THR:O	4:B:173:ILE:N	2.37	0.58
4:B:546:LEU:HB2	4:B:830:LEU:H	1.66	0.58
4:B:553:VAL:HG23	4:B:561:ASN:C	2.23	0.58
4:B:906:ALA:C	4:B:966:ILE:H	2.03	0.58
4:B:914:PRO:HG3	4:B:944:LYS:NZ	2.18	0.58
4:B:1061:TYR:O	4:B:1061:TYR:HD1	1.85	0.58
5:C:33:GLY:HA2	5:C:194:LEU:HD12	1.86	0.58
6:E:28:ARG:HE	6:E:102:ARG:NH1	2.01	0.58
6:E:482:GLU:O	6:E:486:GLU:OE1	2.22	0.58
6:E:543:MET:O	6:E:545:PHE:N	2.36	0.58
8:G:324:LYS:CG	8:G:325:VAL:N	2.66	0.58
9:X:47:LEU:HD11	9:X:50:GLY:O	2.04	0.58
1:1:88:DA:H2"	1:1:89:DA:O4'	2.03	0.58
2:2:49:DT:H3'	9:X:176:HIS:CD2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:191:ARG:NH1	3:A:243:ARG:H	1.97	0.58
3:A:242:LEU:HG	3:A:243:ARG:HB2	1.85	0.58
3:A:607:ARG:HA	3:A:609:ARG:CD	2.33	0.58
3:A:866:LEU:HD22	3:A:870:ASP:OD2	2.04	0.58
3:A:866:LEU:HD12	3:A:871:MET:SD	2.43	0.58
3:A:877:GLY:HA3	5:C:177:ASN:OD1	2.03	0.58
3:A:901:CYS:O	3:A:904:GLY:N	2.37	0.58
3:A:1030:ALA:HA	7:F:29:TYR:CE1	2.38	0.58
4:B:45:THR:O	4:B:47:ALA:N	2.37	0.58
4:B:93:LYS:CD	4:B:375:ASP:CB	2.72	0.58
4:B:124:MET:SD	6:E:519:TYR:HB2	2.44	0.58
4:B:310:ASP:O	4:B:311:LEU:HG	2.04	0.58
4:B:389:PRO:HD2	4:B:399:PRO:HG3	1.86	0.58
4:B:646:LEU:HB2	4:B:662:LYS:N	2.04	0.58
4:B:763:GLY:HA2	4:B:801:GLN:HG3	1.83	0.58
4:B:774:LEU:HD12	4:B:775:PRO:HD2	1.84	0.58
4:B:1051:VAL:CG1	4:B:1052:ILE:H	2.15	0.58
4:B:1054:SER:OG	4:B:1055:ASN:N	2.37	0.58
4:B:1114:LEU:O	4:B:1115:GLN:C	2.38	0.58
4:B:1239:VAL:C	4:B:1241:ILE:N	2.51	0.58
5:C:76:LEU:HB3	5:C:80:MET:SD	2.44	0.58
5:C:221:PHE:HE2	5:D:221:PHE:CE2	2.22	0.58
5:D:38:ASN:OD1	5:D:39:ALA:N	2.37	0.58
5:D:41:ARG:O	5:D:42:ARG:C	2.37	0.58
5:D:74:ASP:O	5:D:75:VAL:C	2.40	0.58
6:E:146:VAL:HG23	6:E:146:VAL:O	2.03	0.58
6:E:262:LEU:O	6:E:265:GLY:N	2.34	0.58
6:E:295:PRO:O	6:E:296:GLU:C	2.42	0.58
8:G:115:ARG:O	8:G:118:GLU:HG3	2.03	0.58
8:G:290:ILE:HG23	8:G:296:SER:O	2.04	0.58
9:Y:45:TYR:O	9:Y:75:PHE:N	2.34	0.58
9:Y:52:VAL:O	9:Y:68:LEU:HA	2.03	0.58
9:Y:166:ASP:OD2	9:Y:213:HIS:HD2	1.85	0.58
1:1:88:DA:C2	2:2:38:DT:C2	2.90	0.58
1:1:95:DT:C4	2:2:31:DA:N6	2.72	0.58
1:1:99:DT:H5'	1:1:99:DT:N1	2.18	0.58
3:A:70:HIS:CE1	3:A:71:ASN:OD1	2.57	0.58
3:A:195:ALA:HB1	3:A:222:THR:HG21	1.85	0.58
3:A:224:GLU:OE1	3:A:224:GLU:N	2.35	0.58
3:A:602:ASP:O	3:A:604:THR:N	2.37	0.58
4:B:79:ARG:HB2	4:B:85:ILE:CD1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:93:LYS:HD2	4:B:375:ASP:HB2	1.79	0.58
4:B:180:ARG:O	4:B:181:LYS:C	2.39	0.58
4:B:260:ARG:O	4:B:261:ASN:C	2.41	0.58
4:B:266:ASP:CG	4:B:267:ASP:N	2.54	0.58
4:B:385:MET:HG2	4:B:406:GLN:O	2.03	0.58
4:B:653:TYR:OH	4:B:670:GLY:HA2	2.04	0.58
4:B:907:THR:HA	4:B:966:ILE:HG22	1.85	0.58
4:B:980:LEU:CA	4:B:995:VAL:HG23	2.28	0.58
5:C:119:GLU:N	5:C:119:GLU:CD	2.57	0.58
5:C:217:LEU:O	5:C:218:VAL:C	2.40	0.58
5:D:32:GLN:HA	5:D:36:VAL:HB	1.85	0.58
8:G:93:ARG:HD2	8:G:93:ARG:C	2.24	0.58
9:X:52:VAL:CG2	9:X:98:VAL:HG13	2.34	0.58
9:X:213:HIS:O	9:X:214:LYS:HG3	2.03	0.58
1:1:109:DG:O3'	1:1:110:DC:H2'	2.03	0.58
2:2:59:DG:C6	2:2:60:DC:N4	2.72	0.58
2:2:66:DA:H1'	2:2:67:DA:N6	2.18	0.58
3:A:46:LEU:O	3:A:47:ILE:C	2.41	0.58
3:A:435:THR:CG2	3:A:442:GLY:H	2.16	0.58
3:A:555:MET:O	3:A:559:MET:SD	2.62	0.58
3:A:609:ARG:HH11	3:A:609:ARG:HB3	1.69	0.58
3:A:983:VAL:O	3:A:985:LEU:N	2.36	0.58
4:B:77:GLU:OE2	4:B:80:TYR:HD2	1.86	0.58
4:B:80:TYR:HA	4:B:85:ILE:CG1	2.33	0.58
4:B:254:LYS:O	4:B:255:GLU:OE2	2.21	0.58
4:B:318:ILE:O	4:B:321:GLN:HG2	2.03	0.58
4:B:541:THR:HG21	4:B:764:ARG:NH2	2.18	0.58
4:B:609:VAL:HG22	4:B:626:GLY:CA	2.32	0.58
4:B:671:VAL:HG13	4:B:687:LYS:HB3	1.86	0.58
4:B:896:ARG:NE	4:B:986:ASP:OD1	2.33	0.58
4:B:939:GLN:C	4:B:967:ARG:H	2.03	0.58
5:C:71:VAL:HG13	5:C:71:VAL:O	2.04	0.58
5:D:81:ARG:O	5:D:84:GLU:OE2	2.22	0.58
5:D:183:VAL:HG12	5:D:184:ARG:O	2.04	0.58
6:E:443:ALA:HB3	6:E:492:LEU:HD12	1.85	0.58
8:G:89:ILE:O	8:G:90:GLY:C	2.40	0.58
8:G:231:LEU:HB3	8:G:232:PRO:HD2	1.86	0.58
8:G:322:LEU:HD23	8:G:322:LEU:C	2.24	0.58
9:X:214:LYS:HD3	9:X:217:THR:OG1	2.04	0.58
9:Y:209:LYS:HA	9:Y:210:ILE:HD12	1.85	0.58
1:1:102:DA:C5	1:1:103:DA:C6	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:35:ARG:O	3:A:36:SER:C	2.36	0.57
3:A:260:ARG:CZ	3:A:260:ARG:HB2	2.34	0.57
3:A:590:ILE:O	3:A:590:ILE:CG2	2.52	0.57
3:A:609:ARG:C	3:A:635:ILE:HG13	2.25	0.57
4:B:18:SER:O	4:B:19:TRP:C	2.39	0.57
4:B:277:VAL:HG12	4:B:278:ALA:H	1.69	0.57
4:B:464:THR:CG2	4:B:469:ASN:HA	2.33	0.57
5:C:38:ASN:O	5:C:39:ALA:C	2.42	0.57
5:C:85:VAL:HA	5:C:125:GLN:NE2	2.19	0.57
5:C:108:THR:HG22	5:C:124:THR:H	1.69	0.57
6:E:257:ARG:HE	6:E:273:ASN:CG	2.07	0.57
6:E:370:ILE:CG2	6:E:457:HIS:CD2	2.87	0.57
6:E:438:ARG:NH2	6:E:500:PRO:HB3	2.10	0.57
6:E:618:ALA:O	6:E:619:ILE:C	2.38	0.57
9:X:25:VAL:HG13	9:X:48:LEU:HD23	1.86	0.57
9:X:32:LYS:CB	9:X:94:ALA:HB3	2.34	0.57
9:Y:35:PHE:HE2	9:Y:88:ARG:HH21	1.52	0.57
9:Y:137:ILE:HA	9:Y:140:LEU:CD2	2.34	0.57
9:Y:196:ASP:HA	9:Y:200:LYS:HB2	1.86	0.57
1:1:74:DT:C2'	1:1:75:DA:H5'	2.34	0.57
1:1:117:DG:H1'	1:1:118:DG:H5'	1.85	0.57
3:A:166:ILE:HG22	3:A:167:PRO:O	2.03	0.57
3:A:341:ASN:O	3:A:342:ARG:C	2.43	0.57
3:A:569:PRO:HG2	3:A:674:SER:CB	2.34	0.57
3:A:594:THR:O	3:A:595:ASP:HB2	2.03	0.57
3:A:929:ARG:HD2	4:B:164:ARG:NH2	2.18	0.57
3:A:1035:GLN:O	3:A:1038:LEU:N	2.34	0.57
4:B:37:LYS:O	4:B:38:ASP:C	2.39	0.57
4:B:352:LYS:NZ	4:B:389:PRO:HB3	2.19	0.57
4:B:601:GLY:HA2	4:B:782:VAL:HG23	1.85	0.57
5:C:38:ASN:OD1	5:C:39:ALA:N	2.37	0.57
5:D:13:THR:HG22	5:D:206:PRO:CD	2.33	0.57
5:D:166:ILE:HG12	5:D:167:ASP:O	2.04	0.57
6:E:224:LEU:N	6:E:224:LEU:CD2	2.67	0.57
8:G:90:GLY:C	8:G:92:ILE:H	2.08	0.57
9:Y:197:LEU:HD12	9:Y:198:ARG:CA	2.33	0.57
1:1:85:DG:N1	2:2:40:DC:N3	2.52	0.57
1:1:89:DA:N1	2:2:37:DT:O2	2.36	0.57
3:A:31:ILE:C	3:A:33:ILE:N	2.55	0.57
3:A:64:GLU:H	3:A:103:ASN:CA	2.10	0.57
3:A:344:GLU:O	3:A:345:ARG:C	2.42	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:620:LYS:HG2	3:A:630:GLN:HB3	1.86	0.57
3:A:898:VAL:O	3:A:899:PHE:C	2.33	0.57
3:A:1087:HIS:CA	6:E:9:PHE:HB2	2.35	0.57
4:B:89:GLU:C	4:B:370:THR:HA	2.24	0.57
4:B:98:TRP:CD1	4:B:158:PRO:HD3	2.39	0.57
4:B:100:GLY:CA	4:B:421:GLY:O	2.52	0.57
4:B:252:LYS:O	4:B:254:LYS:N	2.37	0.57
4:B:372:HIS:N	4:B:375:ASP:OD2	2.38	0.57
4:B:443:LYS:HE3	4:B:997:LEU:HB3	1.87	0.57
4:B:618:LYS:CA	4:B:621:TYR:OH	2.51	0.57
4:B:714:LEU:HB3	4:B:717:GLN:HB2	1.87	0.57
4:B:848:ALA:HA	4:B:877:LEU:CD2	2.33	0.57
4:B:900:LEU:O	4:B:901:ARG:HG3	2.05	0.57
4:B:1113:ALA:O	4:B:1116:LYS:HB3	2.03	0.57
5:C:63:HIS:CA	5:C:164:LEU:HD21	2.11	0.57
5:C:148:TYR:HA	5:C:169:ILE:CA	2.21	0.57
5:D:92:SER:HB2	5:D:144:ARG:CB	2.34	0.57
6:E:52:PRO:O	6:E:53:GLU:C	2.42	0.57
6:E:286:LEU:HD13	6:E:302:GLU:HG2	1.86	0.57
6:E:299:VAL:O	6:E:302:GLU:HB3	2.04	0.57
6:E:368:LEU:HD21	6:E:372:GLN:CB	2.34	0.57
6:E:506:ILE:O	6:E:506:ILE:HG12	2.03	0.57
6:E:511:GLN:O	6:E:514:VAL:HG22	2.04	0.57
6:E:588:TYR:O	6:E:590:TYR:N	2.37	0.57
9:X:98:VAL:HG12	9:X:100:LEU:HG	1.84	0.57
1:1:91:DT:C2	1:1:92:DT:C5	2.92	0.57
1:1:112:DG:P	1:1:112:DG:H8	2.27	0.57
1:1:119:DA:H2"	1:1:120:DT:C5	2.40	0.57
2:2:65:DA:H2"	2:2:66:DA:C8	2.39	0.57
3:A:347:ILE:HG13	3:A:364:LEU:O	2.04	0.57
3:A:722:TYR:HB2	3:A:838:VAL:CG1	2.34	0.57
3:A:791:ILE:CG1	8:G:376:LEU:HD11	2.35	0.57
3:A:1042:SER:O	3:A:1043:ASP:OD1	2.21	0.57
3:A:1077:LEU:O	3:A:1082:LEU:HD12	2.01	0.57
3:A:1078:GLN:C	3:A:1080:LEU:H	2.08	0.57
3:A:1087:HIS:HB2	3:A:1097:SER:O	2.04	0.57
4:B:183:LEU:O	4:B:186:THR:N	2.36	0.57
4:B:251:PRO:C	4:B:253:THR:H	2.07	0.57
4:B:489:ASN:O	4:B:850:GLN:HA	2.04	0.57
4:B:561:ASN:O	4:B:563:LEU:N	2.37	0.57
4:B:573:ASN:O	4:B:589:ALA:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:574:LEU:N	4:B:575:ARG:HH12	2.01	0.57
4:B:583:GLN:OE1	4:B:799:ILE:HG13	2.05	0.57
4:B:646:LEU:H	4:B:662:LYS:HD3	1.69	0.57
4:B:654:VAL:HG22	4:B:672:VAL:HG11	1.84	0.57
4:B:704:ASP:C	4:B:706:THR:H	2.07	0.57
4:B:1011:LEU:O	4:B:1013:ARG:N	2.38	0.57
4:B:1156:ASP:N	4:B:1164:PRO:HB3	2.19	0.57
4:B:1210:ALA:O	4:B:1211:ALA:C	2.42	0.57
5:C:145:GLY:CA	5:C:149:ARG:HH22	2.17	0.57
5:C:214:ALA:CA	5:D:224:LEU:HD22	2.35	0.57
5:D:175:LYS:HB3	5:D:199:TRP:CD1	2.39	0.57
6:E:22:ILE:HG21	6:E:248:VAL:O	2.05	0.57
6:E:100:ARG:HA	6:E:255:ASP:OD1	2.04	0.57
6:E:146:VAL:HG22	6:E:187:GLY:N	2.19	0.57
1:1:80:DA:N7	2:2:46:DT:H71	2.18	0.57
1:1:107:DG:C8	1:1:107:DG:OP2	2.55	0.57
3:A:76:GLU:HB3	3:A:77:PRO:CD	2.34	0.57
3:A:443:LEU:N	3:A:443:LEU:HD12	2.19	0.57
3:A:573:LEU:CD2	3:A:685:ASN:ND2	2.67	0.57
3:A:866:LEU:O	3:A:867:PRO:C	2.36	0.57
3:A:906:ALA:HB2	3:A:936:LEU:CD2	2.35	0.57
4:B:15:ASN:O	4:B:16:LEU:C	2.32	0.57
4:B:134:ILE:CA	4:B:137:VAL:HG22	2.34	0.57
4:B:271:GLU:HG3	4:B:272:ILE:H	1.67	0.57
4:B:1154:ILE:HG13	4:B:1162:MET:HB3	1.87	0.57
5:C:166:ILE:HG12	5:C:167:ASP:O	2.04	0.57
5:D:8:CYS:HA	5:D:23:PHE:CD1	2.40	0.57
6:E:250:PRO:O	6:E:251:VAL:HG23	2.03	0.57
8:G:319:ARG:O	8:G:323:GLU:HG2	2.04	0.57
8:G:321:ASP:O	8:G:324:LYS:HG2	2.03	0.57
9:X:213:HIS:HB3	9:X:214:LYS:HZ2	1.68	0.57
3:A:122:MET:HA	3:A:128:PHE:CE1	2.40	0.57
3:A:136:VAL:CG2	3:A:137:ILE:N	2.65	0.57
3:A:198:LEU:HD21	3:A:298:LEU:HB2	1.86	0.57
3:A:255:GLN:HA	3:A:258:ASP:OD2	2.04	0.57
3:A:644:ARG:HA	3:A:719:ILE:HD11	1.86	0.57
3:A:751:LEU:HD21	3:A:768:ILE:CB	2.34	0.57
3:A:998:TYR:H	8:G:303:GLU:HG3	1.68	0.57
3:A:1028:PHE:CD2	6:E:491:MET:CE	2.87	0.57
3:A:1050:GLU:C	3:A:1050:GLU:CD	2.61	0.57
3:A:1082:LEU:O	6:E:17:ALA:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:277:VAL:CG1	4:B:278:ALA:N	2.68	0.57
4:B:394:SER:O	4:B:395:GLU:HB2	2.03	0.57
4:B:522:VAL:N	4:B:540:ILE:O	2.38	0.57
4:B:606:PHE:HB2	4:B:629:LEU:HA	1.86	0.57
4:B:623:VAL:HG23	4:B:623:VAL:O	2.04	0.57
4:B:790:LEU:N	4:B:790:LEU:HD23	2.18	0.57
5:C:101:VAL:HG11	5:C:107:ILE:HD12	1.86	0.57
5:C:175:LYS:HB3	5:C:199:TRP:CD1	2.39	0.57
9:X:51:ALA:HA	9:X:69:LEU:O	2.04	0.57
9:Y:53:LYS:H	9:Y:95:PHE:HB3	1.69	0.57
9:Y:56:ARG:NH1	9:Y:63:GLU:HA	2.19	0.57
2:2:5:DC:C2	2:2:6:DA:N6	2.66	0.57
2:2:35:DA:C2	2:2:36:DT:N3	2.73	0.57
2:2:52:DA:C2	2:2:53:DT:C2	2.92	0.57
3:A:180:ASN:CG	3:A:182:LEU:HB3	2.25	0.57
3:A:300:ALA:O	3:A:301:VAL:C	2.40	0.57
3:A:545:LEU:C	3:A:547:HIS:H	2.05	0.57
3:A:578:LEU:HG	3:A:578:LEU:O	1.95	0.57
3:A:670:ALA:C	3:A:671:ASP:OD1	2.42	0.57
3:A:717:ILE:O	3:A:718:HIS:CG	2.58	0.57
4:B:29:THR:O	4:B:32:MET:HB3	2.03	0.57
4:B:82:ARG:HG2	4:B:923:VAL:HB	1.86	0.57
4:B:203:VAL:HG13	4:B:1200:ALA:HB1	1.85	0.57
4:B:296:GLN:HG3	4:B:311:LEU:CD2	2.34	0.57
4:B:325:GLU:O	4:B:326:PRO:C	2.42	0.57
4:B:369:ARG:NH1	4:B:1000:GLU:O	2.38	0.57
4:B:581:LYS:HA	4:B:815:ASP:O	2.05	0.57
4:B:614:LYS:HD3	4:B:616:LYS:O	2.04	0.57
4:B:675:THR:HB	4:B:677:LYS:CE	2.34	0.57
4:B:935:GLU:OE1	4:B:936:GLU:HA	2.05	0.57
4:B:1016:GLU:O	4:B:1017:LEU:C	2.40	0.57
4:B:1028:ILE:HD11	4:B:1088:SER:HB2	1.82	0.57
5:D:76:LEU:HB3	5:D:80:MET:SD	2.44	0.57
5:D:82:MET:O	5:D:84:GLU:N	2.38	0.57
5:D:181:GLU:OE1	5:D:193:ARG:O	2.23	0.57
5:D:195:LEU:HD12	5:D:195:LEU:N	2.17	0.57
6:E:386:PRO:HD2	6:E:387:PHE:H	1.70	0.57
6:E:546:GLN:CD	6:E:546:GLN:H	2.05	0.57
6:E:568:GLN:O	6:E:569:PRO:C	2.41	0.57
7:F:59:LEU:N	7:F:59:LEU:CD2	2.66	0.57
8:G:157:LYS:O	8:G:157:LYS:HG2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:75:PHE:HZ	9:X:100:LEU:HD13	1.69	0.57
1:1:58:DA:OP2	1:1:58:DA:H4'	2.05	0.57
3:A:430:ILE:O	3:A:431:CYS:C	2.37	0.57
3:A:873:TYR:CE1	3:A:960:TYR:HB2	2.39	0.57
3:A:880:VAL:CG2	3:A:881:ASP:N	2.65	0.57
4:B:89:GLU:O	4:B:90:ARG:C	2.42	0.57
4:B:146:LEU:CD2	4:B:156:ASP:O	2.53	0.57
4:B:282:VAL:O	4:B:283:ARG:C	2.43	0.57
4:B:367:THR:OG1	4:B:370:THR:OG1	2.19	0.57
4:B:388:GLU:O	4:B:397:PRO:HG3	2.04	0.57
4:B:583:GLN:NE2	4:B:799:ILE:HB	2.20	0.57
4:B:724:TYR:CE1	4:B:727:TYR:CE1	2.93	0.57
4:B:1231:TRP:CD1	6:E:11:TYR:CD2	2.93	0.57
5:C:221:PHE:O	5:C:222:ASN:C	2.43	0.57
5:D:20:TYR:HB2	5:D:199:TRP:CZ3	2.40	0.57
6:E:63:PHE:CD2	6:E:254:PRO:HD3	2.39	0.57
6:E:301:ASN:O	6:E:302:GLU:C	2.42	0.57
8:G:309:PRO:O	8:G:313:VAL:HG12	2.04	0.57
9:X:106:GLU:HA	9:X:109:GLU:HB3	1.86	0.57
9:Y:28:PHE:N	9:Y:98:VAL:HB	2.20	0.57
9:Y:53:LYS:CG	9:Y:68:LEU:HD22	2.21	0.57
1:1:77:DA:C6	2:2:50:DG:N1	2.72	0.57
1:1:85:DG:C6	1:1:86:DG:C6	2.93	0.57
1:1:105:DG:C4	8:G:86:LEU:HD11	2.40	0.57
1:1:106:DG:C4	1:1:107:DG:C5	2.92	0.57
1:1:106:DG:C5'	8:G:171:LYS:CD	2.82	0.57
1:1:106:DG:C5'	8:G:171:LYS:HD3	2.34	0.57
3:A:82:GLU:O	3:A:83:GLU:C	2.43	0.57
3:A:159:ARG:HG2	3:A:159:ARG:HH11	1.70	0.57
3:A:427:TYR:CE2	3:A:511:ARG:NH2	2.72	0.57
3:A:633:GLN:HB2	3:A:635:ILE:HG23	1.86	0.57
3:A:729:THR:HG22	3:A:731:LEU:N	2.08	0.57
4:B:80:TYR:CD1	4:B:90:ARG:HG2	2.39	0.57
4:B:184:VAL:O	4:B:185:ASP:C	2.40	0.57
4:B:193:SER:O	4:B:194:GLY:C	2.44	0.57
4:B:324:GLY:O	4:B:325:GLU:C	2.40	0.57
4:B:374:GLU:HB2	4:B:416:GLN:CG	2.32	0.57
4:B:385:MET:HB2	4:B:405:THR:N	2.20	0.57
4:B:443:LYS:N	4:B:997:LEU:H	1.95	0.57
4:B:542:ALA:O	4:B:544:VAL:N	2.35	0.57
4:B:688:PRO:HG2	4:B:739:ARG:CB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:714:LEU:CB	4:B:717:GLN:HB2	2.35	0.57
4:B:773:ARG:CB	4:B:792:ARG:HB3	2.34	0.57
4:B:1222:GLU:O	4:B:1224:ALA:N	2.38	0.57
5:C:207:GLN:H	5:C:207:GLN:NE2	2.02	0.57
5:D:156:GLU:H	5:D:157:GLU:CD	2.08	0.57
5:D:201:ASN:ND2	5:D:203:SER:H	2.03	0.57
6:E:202:LEU:HG	6:E:235:ILE:HG21	1.85	0.57
6:E:328:ASN:O	6:E:329:ARG:CG	2.52	0.57
6:E:588:TYR:C	6:E:590:TYR:N	2.58	0.57
8:G:343:LEU:O	8:G:344:ASP:CG	2.42	0.57
2:2:31:DA:C4	2:2:32:DA:C8	2.93	0.57
3:A:36:SER:O	3:A:37:SER:C	2.40	0.57
3:A:347:ILE:O	3:A:348:ARG:C	2.43	0.57
3:A:393:LEU:O	3:A:397:THR:HG22	2.04	0.57
3:A:577:GLY:CA	3:A:915:LYS:HD2	2.35	0.57
3:A:614:LEU:N	3:A:615:PRO:HD2	2.20	0.57
3:A:616:THR:O	3:A:619:GLY:CA	2.53	0.57
3:A:703:LEU:O	3:A:704:ILE:HD13	2.05	0.57
3:A:1032:TYR:HH	4:B:1249:THR:HG23	1.70	0.57
3:A:1044:ASP:OD2	3:A:1065:GLY:N	2.35	0.57
4:B:45:THR:O	4:B:46:ARG:C	2.39	0.57
4:B:89:GLU:C	4:B:370:THR:O	2.43	0.57
4:B:91:PHE:HE1	4:B:156:ASP:CB	2.17	0.57
4:B:936:GLU:HG2	4:B:966:ILE:O	2.04	0.57
5:C:228:SER:HB3	5:D:7:GLU:HA	1.85	0.57
5:D:43:VAL:HG13	5:D:44:LEU:N	2.20	0.57
5:D:78:ILE:O	5:D:79:ILE:C	2.37	0.57
5:D:85:VAL:HA	5:D:125:GLN:NE2	2.19	0.57
6:E:122:PRO:HB2	6:E:127:ILE:HD11	0.70	0.57
6:E:509:PRO:HA	6:E:513:MET:HE2	1.87	0.57
7:F:37:ASN:O	7:F:40:LYS:HB3	2.05	0.57
8:G:120:LEU:HD23	8:G:128:PRO:CB	2.31	0.57
8:G:386:LYS:NZ	9:X:39:ASP:HB3	2.20	0.57
9:X:108:VAL:O	9:X:108:VAL:HG12	2.04	0.57
1:1:77:DA:H2	2:2:49:DT:O2	1.87	0.56
1:1:115:DA:H2"	1:1:116:DC:H2'	1.87	0.56
2:2:43:DG:C2	2:2:44:DA:C5	2.93	0.56
3:A:159:ARG:HG2	3:A:159:ARG:NH1	2.20	0.56
3:A:272:VAL:O	3:A:273:GLY:C	2.44	0.56
3:A:417:PHE:C	3:A:419:VAL:N	2.55	0.56
3:A:470:ARG:HG3	3:A:470:ARG:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:591:VAL:O	3:A:592:SER:C	2.42	0.56
3:A:887:LEU:HD11	4:B:131:ARG:NH1	2.19	0.56
3:A:1086:VAL:HG23	3:A:1086:VAL:O	2.05	0.56
4:B:75:ALA:O	4:B:78:VAL:HB	2.04	0.56
4:B:96:ASP:CB	4:B:422:GLN:HB3	2.35	0.56
4:B:205:GLN:HA	4:B:317:ILE:HG23	1.87	0.56
4:B:216:THR:CG2	4:B:288:CYS:HA	2.29	0.56
4:B:256:VAL:O	4:B:256:VAL:HG13	2.05	0.56
4:B:497:VAL:HG22	4:B:510:LEU:O	2.05	0.56
4:B:520:GLY:C	4:B:764:ARG:HH21	2.03	0.56
4:B:566:THR:HB	4:B:753:PRO:HG3	1.87	0.56
4:B:694:VAL:HG22	4:B:695:ASP:N	2.20	0.56
4:B:856:SER:OG	4:B:873:ARG:NE	2.38	0.56
4:B:902:HIS:O	4:B:906:ALA:HA	2.05	0.56
4:B:935:GLU:OE2	4:B:936:GLU:HB2	2.05	0.56
4:B:1237:GLU:O	4:B:1239:VAL:N	2.38	0.56
5:C:201:ASN:ND2	5:C:203:SER:H	2.03	0.56
6:E:413:PRO:HA	6:E:416:TRP:NE1	2.20	0.56
6:E:428:VAL:HG12	6:E:429:MET:N	2.16	0.56
6:E:514:VAL:CG2	6:E:515:LEU:N	2.64	0.56
6:E:566:SER:OG	6:E:567:ASP:N	2.38	0.56
8:G:351:LEU:O	8:G:354:ILE:CG2	2.53	0.56
9:X:45:TYR:HD1	9:X:102:SER:OG	1.88	0.56
1:1:59:DT:H2”	1:1:60:DT:C7	2.35	0.56
1:1:59:DT:H1’	1:1:60:DT:C6	2.40	0.56
1:1:97:DT:N3	1:1:98:DG:C6	2.73	0.56
1:1:119:DA:C2	2:2:6:DA:C5	2.93	0.56
2:2:59:DG:H3’	2:2:60:DC:H6	1.69	0.56
3:A:180:ASN:CG	3:A:182:LEU:N	2.59	0.56
3:A:423:HIS:C	3:A:423:HIS:ND1	2.58	0.56
3:A:440:ASN:O	3:A:441:ALA:C	2.44	0.56
3:A:773:VAL:HB	3:A:799:VAL:HG11	1.87	0.56
4:B:105:LEU:HD23	4:B:143:MET:H	1.70	0.56
4:B:134:ILE:O	4:B:137:VAL:HG22	2.04	0.56
4:B:759:SER:N	4:B:761:GLN:HG2	2.19	0.56
4:B:774:LEU:CD1	4:B:790:LEU:HB2	2.34	0.56
4:B:925:GLY:O	4:B:933:PHE:HB3	2.05	0.56
4:B:1051:VAL:HG12	4:B:1052:ILE:HG12	1.87	0.56
5:C:220:LEU:O	5:C:223:PRO:HD2	2.06	0.56
5:D:88:LYS:HE2	5:D:90:TYR:CE1	2.40	0.56
5:D:98:ARG:HA	5:D:139:GLU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:114:HIS:HB3	6:E:117:TYR:CD2	2.39	0.56
6:E:400:ASN:OD1	6:E:400:ASN:C	2.39	0.56
8:G:128:PRO:O	8:G:130:ASP:N	2.38	0.56
8:G:259:GLU:CB	8:G:270:ILE:HD12	2.35	0.56
9:Y:36:PHE:CD1	9:Y:91:HIS:CG	2.91	0.56
1:1:81:DT:C2	1:1:82:DT:C5	2.94	0.56
1:1:88:DA:C5'	1:1:88:DA:C8	2.88	0.56
1:1:98:DG:C4	1:1:99:DT:O4	2.57	0.56
1:1:109:DG:C2	1:1:110:DC:N4	2.73	0.56
1:1:119:DA:C5	2:2:6:DA:C6	2.94	0.56
2:2:35:DA:C6	2:2:36:DT:O4	2.57	0.56
2:2:46:DT:H72	2:2:47:DT:C6	2.40	0.56
2:2:47:DT:H2'	2:2:48:DT:C7	2.34	0.56
2:2:48:DT:C2'	2:2:49:DT:H71	2.35	0.56
3:A:41:PHE:CD2	3:A:42:LEU:N	2.73	0.56
3:A:169:ARG:CZ	3:A:268:ASP:HB2	2.36	0.56
3:A:169:ARG:NH2	3:A:268:ASP:HB2	2.21	0.56
3:A:209:ILE:O	3:A:216:PRO:HG3	2.04	0.56
3:A:527:VAL:HG22	3:A:528:ALA:N	2.21	0.56
3:A:551:ASN:O	3:A:554:LEU:CB	2.53	0.56
3:A:573:LEU:HD23	3:A:685:ASN:ND2	2.19	0.56
3:A:593:ARG:HG3	3:A:594:THR:OG1	2.05	0.56
3:A:597:ASP:H	3:A:614:LEU:C	2.08	0.56
3:A:1015:GLN:NE2	6:E:359:ARG:HG3	2.21	0.56
4:B:283:ARG:CG	4:B:298:CYS:HA	2.35	0.56
4:B:311:LEU:HD13	4:B:1251:TYR:OH	2.05	0.56
4:B:326:PRO:O	4:B:329:GLN:N	2.27	0.56
4:B:330:LEU:HD21	4:B:1134:ILE:HD11	1.86	0.56
4:B:352:LYS:CE	4:B:358:LYS:HZ1	2.15	0.56
4:B:456:ALA:O	4:B:458:VAL:N	2.28	0.56
4:B:518:ILE:HG22	4:B:805:GLN:HB2	1.87	0.56
4:B:602:GLY:O	4:B:782:VAL:HG22	2.04	0.56
4:B:629:LEU:N	4:B:744:PHE:O	2.38	0.56
4:B:910:ILE:HD11	4:B:912:ALA:HB3	1.87	0.56
4:B:982:ILE:HG22	4:B:983:GLU:HB3	1.88	0.56
4:B:1053:GLU:HB2	4:B:1058:VAL:O	2.05	0.56
5:C:3:GLN:HA	5:C:27:PRO:CG	2.35	0.56
5:C:38:ASN:C	5:C:38:ASN:OD1	2.44	0.56
5:C:81:ARG:O	5:C:84:GLU:OE2	2.22	0.56
5:C:98:ARG:HA	5:C:139:GLU:HB3	1.87	0.56
6:E:100:ARG:HG2	6:E:255:ASP:OD1	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:298:ILE:O	6:E:300:ARG:N	2.38	0.56
6:E:299:VAL:HG13	6:E:300:ARG:N	2.19	0.56
6:E:449:VAL:HG12	6:E:450:GLU:N	2.20	0.56
6:E:483:SER:CA	6:E:486:GLU:OE2	2.44	0.56
6:E:590:TYR:CD1	6:E:607:TYR:HB3	2.35	0.56
7:F:64:GLU:HA	7:F:68:GLU:HB3	1.85	0.56
8:G:127:ASP:HB2	8:G:129:ARG:HH11	1.71	0.56
8:G:318:LEU:HD12	8:G:388:TYR:CZ	2.38	0.56
9:X:119:SER:O	9:X:123:LEU:HD13	2.04	0.56
9:Y:57:VAL:HG22	9:Y:63:GLU:HG2	1.86	0.56
2:2:50:DG:P	9:X:176:HIS:CE1	2.99	0.56
3:A:41:PHE:O	3:A:42:LEU:C	2.43	0.56
3:A:602:ASP:CG	3:A:603:ALA:N	2.54	0.56
3:A:735:GLU:OE1	3:A:735:GLU:N	2.38	0.56
3:A:876:ASP:C	5:C:177:ASN:HD21	2.08	0.56
4:B:222:VAL:O	4:B:279:GLU:HG3	2.05	0.56
4:B:460:PRO:HA	4:B:474:ALA:CA	2.33	0.56
4:B:524:ARG:HA	4:B:861:ASP:OD1	2.05	0.56
4:B:581:LYS:HG3	4:B:814:ALA:CB	2.33	0.56
4:B:1032:ARG:H	4:B:1100:LEU:HD21	1.70	0.56
4:B:1061:TYR:O	4:B:1061:TYR:CG	2.49	0.56
5:C:3:GLN:HA	5:C:27:PRO:HG3	1.88	0.56
5:C:20:TYR:HB2	5:C:199:TRP:HZ3	1.68	0.56
5:D:20:TYR:HA	5:D:198:VAL:O	2.05	0.56
5:D:51:THR:HG21	5:D:89:SER:HB3	1.86	0.56
5:D:207:GLN:H	5:D:207:GLN:NE2	2.02	0.56
6:E:138:GLN:C	6:E:139:ILE:HD13	2.25	0.56
6:E:210:ARG:CA	6:E:213:ILE:HG12	2.31	0.56
6:E:292:ILE:HG22	6:E:292:ILE:O	2.05	0.56
6:E:370:ILE:HG23	6:E:457:HIS:CE1	2.40	0.56
6:E:392:LEU:O	6:E:393:ILE:C	2.42	0.56
6:E:423:ILE:HG23	6:E:424:GLU:N	2.20	0.56
8:G:200:HIS:CD2	8:G:201:GLU:OE2	2.59	0.56
8:G:215:ARG:O	8:G:216:GLN:C	2.41	0.56
8:G:231:LEU:HB2	8:G:236:TYR:HE2	1.70	0.56
8:G:351:LEU:HB2	8:G:365:ILE:HG21	1.85	0.56
9:Y:35:PHE:HD1	9:Y:36:PHE:O	1.88	0.56
9:Y:211:THR:O	9:Y:211:THR:OG1	2.21	0.56
1:1:116:DC:C6	1:1:117:DG:C5	2.93	0.56
2:2:5:DC:C4	2:2:6:DA:N6	2.69	0.56
2:2:36:DT:H4'	2:2:37:DT:OP1	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:47:DT:H5"	2:2:47:DT:C6	2.40	0.56
3:A:53:PHE:HZ	3:A:344:GLU:HB2	1.69	0.56
3:A:226:GLU:OE1	3:A:226:GLU:N	2.39	0.56
3:A:238:LEU:HB3	3:A:256:LEU:CD2	2.36	0.56
3:A:494:ASP:HB2	3:A:531:PRO:HB3	1.86	0.56
3:A:615:PRO:C	3:A:617:ALA:H	2.08	0.56
3:A:1003:GLN:N	3:A:1003:GLN:CD	2.56	0.56
4:B:43:TYR:CD2	6:E:520:LEU:HD12	2.39	0.56
4:B:96:ASP:HB2	4:B:422:GLN:HB3	1.86	0.56
4:B:201:VAL:CG1	4:B:202:ASP:N	2.63	0.56
4:B:286:LEU:HG	4:B:1142:GLU:CG	2.36	0.56
4:B:325:GLU:C	4:B:327:GLY:N	2.55	0.56
4:B:514:LYS:HZ2	4:B:873:ARG:NE	1.98	0.56
4:B:574:LEU:HD12	4:B:574:LEU:N	2.21	0.56
4:B:642:ASP:HA	4:B:680:ILE:HB	1.87	0.56
4:B:646:LEU:H	4:B:662:LYS:CG	2.18	0.56
4:B:675:THR:OG1	4:B:683:GLU:HG3	2.06	0.56
5:C:19:HIS:HB2	5:C:200:THR:HG22	1.88	0.56
5:C:82:MET:O	5:C:84:GLU:N	2.38	0.56
6:E:144:SER:C	6:E:145:TYR:CD1	2.79	0.56
8:G:88:GLU:C	8:G:88:GLU:CD	2.63	0.56
8:G:330:SER:HB2	8:G:333:GLU:CD	2.24	0.56
9:X:44:VAL:HG21	9:X:108:VAL:HG21	1.86	0.56
9:X:183:ILE:O	9:Y:143:ARG:HD2	2.06	0.56
9:Y:27:THR:HA	9:Y:98:VAL:CG1	2.36	0.56
9:Y:216:VAL:O	9:Y:220:ARG:N	2.38	0.56
1:1:119:DA:H3'	1:1:119:DA:P	2.45	0.56
2:2:45:DA:H1'	2:2:46:DT:O5'	2.06	0.56
3:A:258:ASP:HA	3:A:262:PHE:CD1	2.41	0.56
3:A:324:ARG:NH1	3:A:456:TYR:O	2.38	0.56
3:A:350:ARG:NH2	3:A:363:SER:O	2.39	0.56
3:A:599:VAL:HG11	3:A:613:GLN:CB	2.32	0.56
3:A:737:THR:CB	3:A:739:GLU:H	2.18	0.56
3:A:968:PHE:CE1	3:A:970:ARG:HB3	2.40	0.56
3:A:1054:ALA:CA	3:A:1059:LYS:HZ1	2.16	0.56
3:A:1057:LYS:HD3	3:A:1059:LYS:HG2	1.88	0.56
4:B:11:GLY:HA2	4:B:14:ARG:HD2	1.88	0.56
4:B:75:ALA:O	4:B:78:VAL:N	2.38	0.56
4:B:269:ALA:O	4:B:271:GLU:N	2.38	0.56
4:B:299:TYR:CE2	4:B:1139:LYS:HD2	2.41	0.56
4:B:301:TRP:HA	4:B:308:MET:CA	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:304:ALA:CB	6:E:438:ARG:HH21	2.11	0.56
4:B:465:ASP:OD1	4:B:466:ARG:N	2.39	0.56
4:B:518:ILE:CG2	4:B:805:GLN:HB2	2.35	0.56
4:B:558:GLY:HA2	4:B:559:ARG:NH1	2.18	0.56
4:B:653:TYR:CE1	4:B:671:VAL:N	2.74	0.56
4:B:1048:ALA:HB1	4:B:1050:LYS:HD3	1.87	0.56
4:B:1122:VAL:O	4:B:1125:VAL:N	2.39	0.56
4:B:1150:ASN:C	4:B:1150:ASN:OD1	2.41	0.56
4:B:1151:LYS:HG2	4:B:1169:GLU:HA	1.86	0.56
4:B:1237:GLU:N	4:B:1237:GLU:CD	2.56	0.56
5:C:5:GLN:O	5:C:26:GLU:HG2	2.06	0.56
5:C:16:SER:HA	5:C:19:HIS:NE2	2.21	0.56
5:C:156:GLU:HG3	5:C:165:GLN:HE21	1.70	0.56
6:E:390:ASN:O	6:E:391:ARG:C	2.39	0.56
6:E:565:GLU:C	6:E:565:GLU:CD	2.63	0.56
6:E:620:GLN:OE1	6:E:621:GLU:N	2.38	0.56
7:F:32:THR:O	7:F:34:GLN:N	2.38	0.56
8:G:258:THR:HB	8:G:261:GLU:HB3	1.88	0.56
9:Y:35:PHE:C	9:Y:35:PHE:CD1	2.78	0.56
9:Y:135:MET:C	9:Y:137:ILE:H	2.09	0.56
1:1:86:DG:OP2	1:1:86:DG:H8	1.89	0.56
1:1:93:DT:C2	1:1:94:DT:C5	2.94	0.56
1:1:99:DT:C1'	8:G:212:TRP:CZ3	2.88	0.56
1:1:102:DA:H1'	1:1:103:DA:C5'	2.34	0.56
1:1:102:DA:C4	1:1:103:DA:C5	2.93	0.56
1:1:107:DG:C6	1:1:108:DA:N6	2.73	0.56
2:2:35:DA:C8	2:2:36:DT:H73	2.41	0.56
3:A:396:LEU:O	3:A:397:THR:C	2.39	0.56
3:A:579:GLU:CD	3:A:579:GLU:C	2.62	0.56
3:A:771:GLY:HA2	3:A:803:SER:HA	1.87	0.56
3:A:774:THR:H	3:A:799:VAL:HG13	1.71	0.56
3:A:791:ILE:HD12	3:A:791:ILE:N	2.17	0.56
4:B:105:LEU:O	4:B:108:GLU:N	2.39	0.56
4:B:352:LYS:NZ	4:B:389:PRO:HG3	2.19	0.56
4:B:510:LEU:H	4:B:875:GLN:HE22	1.52	0.56
4:B:629:LEU:O	4:B:744:PHE:N	2.39	0.56
4:B:642:ASP:OD1	4:B:643:ILE:N	2.39	0.56
4:B:655:GLU:C	4:B:657:GLY:H	2.09	0.56
4:B:866:VAL:O	4:B:869:SER:HB2	2.05	0.56
5:C:35:THR:HB	5:D:42:ARG:NE	2.21	0.56
5:C:94:ALA:HA	5:C:142:ILE:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:228:SER:CB	5:D:7:GLU:HA	2.35	0.56
5:D:38:ASN:O	5:D:39:ALA:C	2.42	0.56
6:E:231:ILE:O	6:E:232:ASP:C	2.44	0.56
6:E:253:PRO:O	6:E:254:PRO:C	2.40	0.56
9:X:43:ARG:NH2	9:X:103:ALA:HB3	2.20	0.56
9:X:202:MET:HE2	9:X:219:SER:HB3	1.88	0.56
9:Y:206:HIS:HB2	9:Y:209:LYS:CG	2.36	0.56
1:1:73:DA:C2'	1:1:74:DT:H71	2.35	0.56
2:2:35:DA:H2'	2:2:36:DT:C5	2.41	0.56
2:2:52:DA:N1	2:2:53:DT:C4	2.74	0.56
3:A:410:LEU:N	3:A:410:LEU:HD12	2.20	0.56
3:A:576:THR:C	3:A:578:LEU:H	2.09	0.56
3:A:598:VAL:HG13	3:A:598:VAL:O	2.05	0.56
3:A:600:TYR:CD2	3:A:607:ARG:NH2	2.74	0.56
3:A:761:ALA:O	3:A:762:TRP:C	2.43	0.56
3:A:896:GLY:O	3:A:899:PHE:HB2	2.06	0.56
4:B:199:ARG:HH11	4:B:199:ARG:HG3	1.71	0.56
4:B:457:GLU:HG3	4:B:479:LEU:HD13	1.88	0.56
4:B:766:ILE:HD11	4:B:834:ILE:HD13	1.86	0.56
4:B:775:PRO:HD3	4:B:789:GLU:O	2.06	0.56
4:B:937:SER:HB2	4:B:971:PRO:HD2	1.88	0.56
4:B:1115:GLN:O	4:B:1119:THR:HG23	2.06	0.56
5:C:43:VAL:HG13	5:C:44:LEU:N	2.20	0.56
5:C:188:SER:C	5:C:189:ILE:HG13	2.26	0.56
5:D:102:ASN:OD1	5:D:135:LYS:HA	2.06	0.56
6:E:261:GLN:NE2	6:E:262:LEU:O	2.36	0.56
6:E:296:GLU:O	6:E:298:ILE:C	2.44	0.56
6:E:296:GLU:HA	6:E:299:VAL:HG12	1.88	0.56
6:E:297:ILE:HG13	6:E:298:ILE:N	2.15	0.56
6:E:315:ASP:OD2	6:E:318:ARG:NH1	2.35	0.56
8:G:88:GLU:OE2	8:G:89:ILE:N	2.38	0.56
9:X:112:LEU:HD12	9:X:122:MET:HG3	1.88	0.56
9:Y:36:PHE:CE1	9:Y:91:HIS:NE2	2.70	0.56
9:Y:40:PRO:HA	9:Y:88:ARG:HD3	1.87	0.56
9:Y:197:LEU:HA	9:Y:203:ILE:O	2.06	0.56
1:1:111:DT:OP2	1:1:111:DT:C6	2.57	0.56
3:A:63:LEU:HD21	3:A:359:LEU:HD23	1.88	0.56
3:A:180:ASN:ND2	3:A:182:LEU:O	2.21	0.56
3:A:218:TYR:O	3:A:219:PHE:CD2	2.59	0.56
3:A:772:LYS:HG2	3:A:773:VAL:N	2.20	0.56
3:A:813:ARG:HG3	3:A:814:VAL:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1091:THR:CG2	3:A:1092:GLN:N	2.69	0.56
4:B:101:THR:HG22	4:B:420:LYS:CB	2.28	0.56
4:B:250:HIS:ND1	4:B:250:HIS:C	2.58	0.56
4:B:259:PRO:HG2	4:B:260:ARG:H	1.71	0.56
4:B:464:THR:HA	4:B:467:GLN:HE22	1.71	0.56
4:B:700:VAL:HG23	4:B:715:LEU:HD21	1.88	0.56
4:B:760:GLN:HE21	4:B:764:ARG:CB	2.19	0.56
4:B:766:ILE:HG12	4:B:799:ILE:HG23	1.88	0.56
5:C:205:SER:HB3	5:C:208:GLU:CD	2.25	0.56
5:D:205:SER:HB3	5:D:208:GLU:CD	2.25	0.56
6:E:17:ALA:HB2	6:E:25:TRP:CH2	2.41	0.56
6:E:28:ARG:NH2	6:E:102:ARG:NE	2.47	0.56
6:E:220:LYS:CE	6:E:223:LYS:CD	2.78	0.56
6:E:256:LEU:HD12	6:E:256:LEU:H	1.68	0.56
6:E:481:LEU:CG	6:E:482:GLU:N	2.64	0.56
8:G:326:LEU:HD12	8:G:327:ASP:N	2.21	0.56
8:G:356:GLN:HA	8:G:360:VAL:N	2.20	0.56
9:Y:47:LEU:CD2	9:Y:52:VAL:HB	2.35	0.56
1:1:60:DT:H2"	1:1:61:DT:H71	1.88	0.56
2:2:43:DG:C2	2:2:44:DA:C6	2.94	0.56
3:A:113:GLU:O	3:A:114:VAL:HG13	2.06	0.56
3:A:156:ASN:CG	3:A:157:GLY:H	2.05	0.56
3:A:158:ARG:HB3	3:A:179:ARG:HD2	1.88	0.56
3:A:406:GLY:O	3:A:409:GLY:N	2.38	0.56
3:A:676:GLU:C	3:A:678:GLY:H	2.09	0.56
3:A:683:GLY:O	3:A:978:TYR:OH	2.18	0.56
3:A:1010:ALA:N	3:A:1011:GLN:OE1	2.39	0.56
3:A:1033:THR:HG22	6:E:483:SER:OG	2.06	0.56
4:B:68:ALA:O	4:B:69:ALA:C	2.45	0.56
4:B:186:THR:C	4:B:188:LEU:N	2.56	0.56
4:B:233:ILE:O	4:B:234:LYS:C	2.44	0.56
4:B:545:VAL:HG13	4:B:829:ARG:CD	2.36	0.56
4:B:603:PHE:H	4:B:781:ARG:HH11	1.54	0.56
4:B:913:LYS:N	4:B:915:LYS:HG2	2.21	0.56
4:B:941:VAL:HG12	4:B:965:THR:HB	1.88	0.56
4:B:1117:VAL:O	4:B:1120:PHE:CB	2.49	0.56
4:B:1151:LYS:HE2	4:B:1169:GLU:HA	1.87	0.56
5:C:214:ALA:HB3	5:D:225:LYS:HG2	1.87	0.56
6:E:28:ARG:NE	6:E:102:ARG:CZ	2.69	0.56
6:E:331:LEU:N	6:E:331:LEU:CD1	2.59	0.56
6:E:376:PRO:HB2	6:E:379:MET:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:520:LEU:HD21	6:E:611:GLY:CA	2.35	0.56
6:E:551:ASP:O	6:E:610:PRO:HG2	2.06	0.56
7:F:59:LEU:O	7:F:60:ARG:C	2.41	0.56
8:G:139:LEU:HD23	8:G:144:PHE:HD1	1.70	0.56
8:G:200:HIS:NE2	8:G:201:GLU:OE2	2.39	0.56
9:X:173:LYS:HZ2	9:X:209:LYS:HD3	1.71	0.56
1:1:113:DT:O4	2:2:13:DA:N1	2.39	0.55
1:1:119:DA:C6	2:2:6:DA:C5	2.94	0.55
3:A:175:PHE:C	3:A:176:GLU:OE1	2.45	0.55
3:A:271:ARG:N	3:A:290:ARG:HH22	2.02	0.55
3:A:366:ASN:O	3:A:367:PRO:C	2.45	0.55
3:A:609:ARG:HD3	3:A:636:ARG:HA	0.80	0.55
3:A:751:LEU:HD21	3:A:768:ILE:CG2	2.36	0.55
3:A:759:ILE:HG23	3:A:815:VAL:O	2.04	0.55
3:A:869:GLU:HG2	5:C:45:LEU:HB2	1.86	0.55
3:A:1048:ARG:O	3:A:1049:ASN:C	2.40	0.55
4:B:91:PHE:CE1	4:B:156:ASP:CB	2.89	0.55
4:B:93:LYS:NZ	4:B:375:ASP:C	2.59	0.55
4:B:359:LEU:CD1	4:B:387:LEU:HA	2.36	0.55
4:B:482:ILE:HG13	4:B:483:LEU:C	2.26	0.55
4:B:614:LYS:C	4:B:616:LYS:H	2.09	0.55
4:B:645:LEU:H	4:B:662:LYS:HD3	1.72	0.55
4:B:700:VAL:C	4:B:703:ARG:H	2.09	0.55
4:B:739:ARG:HH12	4:B:781:ARG:NE	2.03	0.55
5:D:71:VAL:O	5:D:71:VAL:HG13	2.04	0.55
5:D:88:LYS:H	5:D:121:ILE:HD11	1.71	0.55
5:D:106:THR:OG1	5:D:107:ILE:N	2.38	0.55
5:D:127:VAL:HG12	5:D:128:ALA:HB2	1.88	0.55
6:E:31:PRO:C	6:E:33:GLY:N	2.56	0.55
6:E:225:ILE:HG13	6:E:226:LYS:N	2.21	0.55
6:E:467:ASP:HB3	6:E:469:ASP:H	1.71	0.55
8:G:320:GLU:O	8:G:321:ASP:C	2.44	0.55
8:G:339:LEU:HB3	8:G:354:ILE:HD12	1.87	0.55
9:X:88:ARG:CG	9:X:90:TYR:O	2.54	0.55
9:Y:162:VAL:HG11	9:Y:171:ASP:HB2	1.87	0.55
1:1:89:DA:N3	1:1:90:DA:O4'	2.38	0.55
1:1:110:DC:H2"	1:1:111:DT:C6	2.40	0.55
3:A:285:VAL:HG12	3:A:289:VAL:CG1	2.35	0.55
3:A:554:LEU:O	3:A:555:MET:C	2.42	0.55
3:A:591:VAL:O	3:A:593:ARG:N	2.39	0.55
3:A:633:GLN:N	3:A:633:GLN:OE1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:789:ARG:NH1	3:A:794:GLU:O	2.39	0.55
3:A:865:ILE:HD12	3:A:865:ILE:N	2.19	0.55
3:A:1032:TYR:N	3:A:1032:TYR:CD1	2.70	0.55
4:B:34:ASP:C	4:B:36:LEU:N	2.54	0.55
4:B:96:ASP:OD1	4:B:423:LEU:CD2	2.54	0.55
4:B:121:SER:C	4:B:123:TYR:H	2.09	0.55
4:B:377:LEU:O	4:B:378:PHE:CG	2.59	0.55
4:B:480:ILE:O	4:B:972:TYR:N	2.39	0.55
4:B:794:GLN:HG2	4:B:795:LEU:H	1.69	0.55
4:B:1040:TYR:HB3	4:B:1048:ALA:O	2.05	0.55
4:B:1173:VAL:HG13	4:B:1174:GLU:H	1.71	0.55
6:E:232:ASP:O	6:E:235:ILE:HG12	2.05	0.55
7:F:39:ALA:O	7:F:40:LYS:C	2.43	0.55
9:X:42:GLU:CA	9:X:78:LEU:HD13	2.24	0.55
9:X:88:ARG:HH22	9:X:129:ARG:HH22	1.55	0.55
1:1:58:DA:N3	1:1:59:DT:N3	2.53	0.55
1:1:75:DA:C6	1:1:76:DC:C4	2.95	0.55
1:1:97:DT:H1’	1:1:98:DG:H5’	1.89	0.55
1:1:108:DA:H2”	1:1:109:DG:O5’	2.05	0.55
2:2:6:DA:H2”	2:2:7:DT:O5’	2.07	0.55
3:A:263:ASP:C	3:A:265:LYS:N	2.55	0.55
3:A:302:ASP:O	3:A:303:TYR:C	2.40	0.55
3:A:372:ALA:O	3:A:373:ALA:C	2.45	0.55
3:A:389:GLN:O	3:A:390:THR:C	2.41	0.55
3:A:596:GLY:HA3	3:A:615:PRO:HA	1.86	0.55
3:A:616:THR:HG1	3:A:633:GLN:CD	2.06	0.55
3:A:873:TYR:CB	3:A:879:PRO:HA	2.37	0.55
3:A:1032:TYR:N	3:A:1032:TYR:HD1	2.03	0.55
3:A:1049:ASN:O	3:A:1050:GLU:C	2.44	0.55
4:B:16:LEU:O	4:B:19:TRP:HB3	2.06	0.55
4:B:79:ARG:HD2	4:B:85:ILE:HG21	1.88	0.55
4:B:366:ARG:CZ	4:B:369:ARG:NE	2.69	0.55
4:B:405:THR:O	4:B:406:GLN:HB2	2.07	0.55
4:B:440:LYS:HB3	4:B:998:VAL:CG2	2.36	0.55
4:B:515:LEU:O	4:B:871:VAL:N	2.39	0.55
4:B:575:ARG:HB2	4:B:588:VAL:C	2.27	0.55
4:B:657:GLY:C	4:B:668:ASN:ND2	2.48	0.55
4:B:919:GLY:N	4:B:940:ILE:O	2.40	0.55
4:B:1130:GLN:O	4:B:1133:GLY:N	2.39	0.55
6:E:98:VAL:HG12	6:E:102:ARG:CZ	2.36	0.55
6:E:125:ILE:O	6:E:129:LEU:CD1	2.53	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:180:GLN:HG3	6:E:180:GLN:O	2.06	0.55
8:G:314:SER:HB2	8:G:390:ARG:NE	2.21	0.55
8:G:351:LEU:O	8:G:352:GLU:C	2.43	0.55
1:1:77:DA:C2	2:2:49:DT:O2	2.57	0.55
1:1:86:DG:H1'	1:1:87:DA:O4'	2.06	0.55
1:1:114:DC:C1'	1:1:115:DA:H5'	2.35	0.55
1:1:117:DG:H1'	1:1:118:DG:O5'	2.07	0.55
3:A:296:ASP:OD1	3:A:297:ILE:HG13	2.06	0.55
3:A:506:PRO:HA	3:A:521:PRO:HD3	1.87	0.55
4:B:68:ALA:O	4:B:71:GLU:N	2.38	0.55
4:B:69:ALA:HA	4:B:419:LYS:CB	2.37	0.55
4:B:97:THR:O	4:B:421:GLY:O	2.24	0.55
4:B:207:VAL:O	4:B:315:VAL:HG12	2.05	0.55
4:B:214:CYS:SG	4:B:215:GLY:N	2.79	0.55
4:B:242:ARG:H	4:B:264:ILE:CG2	2.19	0.55
4:B:286:LEU:O	4:B:1146:ARG:NH1	2.40	0.55
4:B:295:CYS:HB2	4:B:298:CYS:HB3	1.88	0.55
4:B:458:VAL:HG21	4:B:478:GLY:H	1.71	0.55
4:B:503:ARG:HH22	4:B:505:GLU:HB3	1.71	0.55
4:B:524:ARG:CD	4:B:540:ILE:HG13	2.36	0.55
4:B:527:GLU:O	4:B:530:PRO:HD3	2.06	0.55
4:B:536:GLU:O	4:B:538:GLU:OE1	2.24	0.55
4:B:630:LEU:HB3	4:B:743:GLU:OE1	2.07	0.55
4:B:789:GLU:OE2	4:B:792:ARG:N	2.39	0.55
4:B:1088:SER:HG	4:B:1093:ILE:HG21	1.71	0.55
4:B:1119:THR:HG1	4:B:1120:PHE:H	1.50	0.55
5:C:201:ASN:CG	5:C:202:GLY:N	2.59	0.55
6:E:62:ILE:HG13	6:E:63:PHE:CE1	2.41	0.55
6:E:147:VAL:HG11	6:E:157:THR:O	2.06	0.55
6:E:185:GLU:HG3	6:E:195:ARG:HH11	1.67	0.55
6:E:256:LEU:N	6:E:256:LEU:CD1	2.64	0.55
6:E:402:LYS:HA	6:E:405:LYS:HD3	1.88	0.55
8:G:110:LEU:HD13	8:G:152:ARG:H	1.62	0.55
8:G:320:GLU:HG2	8:G:321:ASP:N	2.21	0.55
9:X:176:HIS:O	9:X:179:ILE:HB	2.06	0.55
1:1:99:DT:H5'	1:1:99:DT:C6	2.42	0.55
3:A:131:ASN:O	3:A:133:ALA:N	2.38	0.55
3:A:180:ASN:OD1	3:A:181:ASP:C	2.44	0.55
3:A:691:MET:HG2	3:A:972:VAL:HG21	1.88	0.55
3:A:734:GLU:C	3:A:772:LYS:HD2	2.25	0.55
3:A:792:PHE:HZ	8:G:385:LEU:CD1	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:30:ALA:O	4:B:31:VAL:C	2.37	0.55
4:B:187:ALA:O	4:B:188:LEU:HD23	2.07	0.55
4:B:198:ARG:HH12	6:E:346:ARG:NH2	2.04	0.55
4:B:251:PRO:C	4:B:253:THR:N	2.59	0.55
4:B:628:THR:N	4:B:744:PHE:O	2.40	0.55
4:B:639:VAL:N	4:B:682:ARG:O	2.39	0.55
4:B:692:LEU:HD13	4:B:737:LEU:CA	2.36	0.55
5:C:16:SER:HA	5:C:19:HIS:HE2	1.71	0.55
6:E:486:GLU:HB2	6:E:490:LEU:HD21	1.89	0.55
8:G:106:LYS:NZ	8:G:150:ILE:HG23	2.20	0.55
8:G:111:LEU:O	8:G:112:GLU:C	2.44	0.55
8:G:315:LYS:O	8:G:388:TYR:OH	2.24	0.55
9:X:47:LEU:HD21	9:X:50:GLY:O	2.06	0.55
9:X:145:MET:HE1	9:Y:143:ARG:HH22	1.70	0.55
9:Y:43:ARG:O	9:Y:78:LEU:HD12	2.07	0.55
9:Y:156:LEU:C	9:Y:170:ILE:HD11	2.27	0.55
1:1:85:DG:N2	1:1:86:DG:O4'	2.39	0.55
3:A:166:ILE:CG2	3:A:167:PRO:HD2	2.35	0.55
3:A:337:ARG:CG	3:A:338:VAL:N	2.69	0.55
3:A:454:ASN:ND2	3:A:458:PHE:O	2.39	0.55
3:A:600:TYR:HD2	3:A:607:ARG:CB	2.08	0.55
3:A:999:SER:HB3	3:A:1003:GLN:N	2.22	0.55
4:B:185:ASP:O	4:B:186:THR:C	2.44	0.55
4:B:237:THR:C	4:B:239:LEU:N	2.57	0.55
4:B:443:LYS:HB2	4:B:997:LEU:H	1.72	0.55
4:B:650:ASP:O	4:B:652:GLN:N	2.38	0.55
4:B:1090:PRO:O	4:B:1093:ILE:HG13	2.07	0.55
4:B:1123:ASN:O	4:B:1126:GLN:N	2.39	0.55
4:B:1224:ALA:HA	6:E:14:ILE:HG13	1.87	0.55
5:C:16:SER:HA	5:C:19:HIS:CD2	2.41	0.55
5:C:148:TYR:HE1	5:C:171:MET:HB2	1.71	0.55
5:C:214:ALA:O	5:C:218:VAL:HG23	2.07	0.55
5:D:76:LEU:N	5:D:76:LEU:CD1	2.67	0.55
5:D:76:LEU:O	5:D:79:ILE:HG23	2.07	0.55
5:D:77:GLU:O	5:D:81:ARG:N	2.31	0.55
5:D:201:ASN:CG	5:D:202:GLY:N	2.59	0.55
6:E:69:TRP:CD1	6:E:82:ARG:HA	2.42	0.55
6:E:355:ASP:OD1	6:E:356:TYR:CE2	2.60	0.55
8:G:186:GLU:OE1	8:G:186:GLU:HA	2.01	0.55
8:G:378:HIS:CG	9:X:57:VAL:HG22	2.29	0.55
9:Y:157:CYS:HA	9:Y:161:GLY:HA3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:79:DA:C4	1:1:80:DA:C2	2.95	0.55
1:1:92:DT:C2	1:1:93:DT:C5	2.94	0.55
2:2:59:DG:C2	2:2:60:DC:C2	2.95	0.55
3:A:141:ILE:HA	3:A:325:VAL:HA	1.89	0.55
3:A:257:LEU:HG	3:A:258:ASP:N	2.22	0.55
3:A:503:ILE:HD13	3:A:503:ILE:N	2.22	0.55
3:A:510:VAL:HG22	3:A:511:ARG:O	2.06	0.55
3:A:1068:GLU:C	3:A:1070:PHE:N	2.55	0.55
4:B:104:ALA:O	4:B:107:ASP:OD1	2.25	0.55
4:B:178:GLY:O	4:B:179:ALA:C	2.43	0.55
4:B:498:VAL:O	4:B:499:LYS:HE2	2.07	0.55
4:B:900:LEU:HD23	4:B:904:ASP:HB3	1.88	0.55
4:B:932:ILE:HG22	4:B:933:PHE:N	2.21	0.55
4:B:1229:SER:OG	4:B:1230:ASP:N	2.40	0.55
4:B:1244:LEU:HG	4:B:1245:ILE:N	2.21	0.55
5:C:149:ARG:N	5:C:168:SER:O	2.40	0.55
5:C:150:THR:O	5:C:152:GLU:HG3	2.07	0.55
5:C:161:LEU:C	5:C:163:PHE:H	2.10	0.55
5:D:51:THR:HG22	5:D:144:ARG:CA	2.35	0.55
6:E:37:GLY:HA2	6:E:62:ILE:HB	1.89	0.55
6:E:108:LEU:HB2	6:E:247:THR:O	2.06	0.55
6:E:364:VAL:C	6:E:366:PRO:HD3	2.27	0.55
6:E:390:ASN:O	6:E:392:LEU:N	2.40	0.55
6:E:414:SER:HA	6:E:417:ASP:HB2	1.88	0.55
8:G:246:THR:CB	8:G:256:LYS:CD	2.73	0.55
8:G:250:SER:HA	8:G:253:MET:O	2.07	0.55
8:G:258:THR:CB	8:G:262:ILE:HG12	2.37	0.55
8:G:259:GLU:O	8:G:263:ALA:N	2.39	0.55
8:G:318:LEU:CD2	8:G:322:LEU:HD12	2.37	0.55
9:X:175:SER:OG	9:X:178:ALA:N	2.40	0.55
1:1:90:DA:C4	1:1:91:DT:C5	2.95	0.55
2:2:11:DT:N1	2:2:11:DT:H5'	2.21	0.55
2:2:43:DG:N3	2:2:44:DA:C4	2.75	0.55
2:2:51:DT:C5	2:2:52:DA:C5	2.94	0.55
3:A:122:MET:CG	3:A:123:THR:N	2.70	0.55
3:A:294:SER:OG	3:A:295:GLY:N	2.38	0.55
3:A:372:ALA:O	3:A:374:ILE:N	2.39	0.55
3:A:599:VAL:HG13	3:A:615:PRO:CD	2.37	0.55
3:A:697:ASN:O	3:A:698:TYR:C	2.44	0.55
3:A:886:PRO:HB3	4:B:50:SER:HA	1.88	0.55
3:A:941:ASP:CG	3:A:942:GLU:OE2	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1024:ALA:CA	6:E:438:ARG:HA	2.37	0.55
3:A:1045:MET:O	3:A:1048:ARG:HG3	2.06	0.55
3:A:1052:LEU:O	3:A:1055:ILE:HG12	2.06	0.55
4:B:456:ALA:C	4:B:458:VAL:N	2.59	0.55
4:B:853:THR:HA	4:B:874:THR:CG2	2.37	0.55
4:B:1209:SER:O	4:B:1212:SER:N	2.39	0.55
5:C:12:ASN:ND2	5:C:20:TYR:HB3	2.18	0.55
5:C:63:HIS:CD2	5:C:65:PHE:HD2	2.25	0.55
5:D:201:ASN:HD21	5:D:203:SER:H	1.55	0.55
6:E:23:ARG:HD2	6:E:107:LYS:HZ2	1.72	0.55
6:E:47:TYR:CE1	8:G:232:PRO:HD3	2.42	0.55
6:E:59:CYS:SG	6:E:61:ARG:HG2	2.47	0.55
6:E:118:LEU:C	6:E:120:GLY:H	2.10	0.55
6:E:148:LEU:HG	6:E:185:GLU:HB3	1.89	0.55
6:E:381:ILE:HB	6:E:382:GLU:OE1	2.07	0.55
6:E:409:SER:HG	6:E:410:ARG:NH1	2.05	0.55
8:G:218:ILE:O	8:G:220:ARG:N	2.40	0.55
8:G:368:ILE:HA	8:G:371:LYS:HD2	1.89	0.55
9:X:42:GLU:HB3	9:X:78:LEU:HB3	1.65	0.55
9:X:98:VAL:HG13	9:X:100:LEU:CG	2.35	0.55
9:X:123:LEU:HD21	9:Y:123:LEU:HD22	1.89	0.55
1:1:72:DT:C5	9:X:187:ARG:NH2	2.65	0.55
2:2:44:DA:H2"	2:2:45:DA:C8	2.41	0.55
3:A:44:GLU:O	3:A:48:GLU:OE1	2.25	0.55
3:A:347:ILE:HG12	3:A:351:MET:CG	2.37	0.55
3:A:734:GLU:C	3:A:735:GLU:CD	2.65	0.55
3:A:1005:PRO:O	3:A:1007:GLY:N	2.39	0.55
4:B:114:LYS:HD3	4:B:350:ARG:NE	2.20	0.55
4:B:250:HIS:CE1	4:B:254:LYS:C	2.81	0.55
4:B:371:ARG:O	4:B:373:GLY:N	2.38	0.55
4:B:580:THR:OG1	4:B:581:LYS:N	2.38	0.55
4:B:721:GLU:OE2	4:B:723:ARG:HD3	2.07	0.55
4:B:765:SER:HB2	4:B:800:GLU:HB3	1.89	0.55
4:B:794:GLN:CG	4:B:795:LEU:N	2.65	0.55
4:B:978:ALA:HA	4:B:997:LEU:CG	2.34	0.55
4:B:1088:SER:OG	4:B:1093:ILE:HG23	1.98	0.55
4:B:1244:LEU:C	4:B:1245:ILE:HG13	2.26	0.55
5:D:77:GLU:C	5:D:77:GLU:CD	2.65	0.55
5:D:111:HIS:H	5:D:111:HIS:CD2	2.24	0.55
5:D:118:VAL:CG1	5:D:142:ILE:HG13	2.37	0.55
6:E:70:GLU:HA	6:E:76:TYR:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:75:LYS:CE	6:E:88:ARG:HD3	2.37	0.55
6:E:374:GLY:O	6:E:375:LEU:HD13	2.07	0.55
6:E:449:VAL:CG1	6:E:450:GLU:N	2.70	0.55
6:E:520:LEU:HD23	6:E:521:THR:CA	2.36	0.55
6:E:530:GLY:HA3	6:E:550:ILE:CG2	2.37	0.55
9:X:67:ALA:C	9:X:68:LEU:HG	2.28	0.55
9:Y:45:TYR:C	9:Y:75:PHE:H	2.10	0.55
1:1:58:DA:C4	1:1:58:DA:H5"	2.41	0.55
1:1:118:DG:H1'	1:1:119:DA:H3'	1.88	0.55
2:2:35:DA:C2	2:2:36:DT:C4	2.95	0.55
2:2:60:DC:H4'	2:2:61:DT:OP1	2.06	0.55
3:A:105:GLU:O	3:A:106:THR:C	2.44	0.55
3:A:401:ARG:CG	3:A:402:LEU:N	2.65	0.55
3:A:660:GLY:C	3:A:661:GLU:OE1	2.46	0.55
3:A:728:GLN:HE22	3:A:733:PRO:N	2.05	0.55
3:A:792:PHE:CE1	8:G:382:ASN:HB2	2.34	0.55
3:A:838:VAL:C	3:A:839:TYR:CD1	2.81	0.55
4:B:169:VAL:HG23	4:B:170:THR:HG23	1.89	0.55
4:B:369:ARG:HH12	4:B:1000:GLU:HG2	1.72	0.55
4:B:447:SER:OG	4:B:988:VAL:HG23	2.07	0.55
4:B:611:VAL:HG21	4:B:623:VAL:HA	1.88	0.55
4:B:910:ILE:HG13	4:B:929:ALA:HB1	1.89	0.55
4:B:1208:ILE:O	4:B:1209:SER:C	2.44	0.55
5:C:107:ILE:HG23	5:C:111:HIS:CD2	2.42	0.55
5:D:83:LYS:N	5:D:84:GLU:OE1	2.40	0.55
6:E:278:ARG:O	6:E:279:VAL:C	2.38	0.55
6:E:389:ILE:CG1	6:E:390:ASN:N	2.67	0.55
9:X:36:PHE:O	9:X:39:ASP:OD1	2.25	0.55
9:X:130:ILE:HD11	9:Y:130:ILE:CG2	2.37	0.55
2:2:11:DT:C6	2:2:12:DG:C2	2.95	0.54
2:2:58:DA:N3	2:2:59:DG:C4	2.75	0.54
3:A:125:ARG:HG3	3:A:127:THR:HG23	1.88	0.54
3:A:196:GLN:HB3	3:A:199:LEU:HB2	1.89	0.54
3:A:254:GLN:O	3:A:257:LEU:N	2.41	0.54
3:A:264:PRO:O	3:A:265:LYS:C	2.45	0.54
3:A:423:HIS:N	3:A:426:HIS:CD2	2.75	0.54
3:A:579:GLU:CD	3:A:580:ALA:N	2.60	0.54
3:A:1003:GLN:N	3:A:1003:GLN:OE1	2.40	0.54
4:B:221:PRO:HA	4:B:280:VAL:O	2.07	0.54
4:B:299:TYR:CZ	4:B:315:VAL:HG21	2.42	0.54
4:B:562:TYR:O	4:B:564:ILE:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:583:GLN:HE22	4:B:799:ILE:CG1	2.20	0.54
4:B:650:ASP:HB3	4:B:672:VAL:O	2.06	0.54
4:B:1146:ARG:O	4:B:1148:MET:N	2.40	0.54
5:C:220:LEU:H	5:C:220:LEU:CD1	2.18	0.54
5:C:227:ILE:HD13	5:D:5:GLN:CA	2.36	0.54
6:E:36:VAL:HG22	6:E:37:GLY:H	1.72	0.54
6:E:114:HIS:CD2	6:E:116:TRP:HB2	2.42	0.54
6:E:530:GLY:HA3	6:E:550:ILE:CB	2.37	0.54
7:F:27:ASN:HB2	7:F:30:ARG:H	1.72	0.54
8:G:132:GLU:CA	8:G:141:LEU:HD13	2.37	0.54
8:G:334:ARG:O	8:G:337:LEU:HB2	2.08	0.54
9:Y:35:PHE:HE1	9:Y:88:ARG:O	1.91	0.54
9:Y:95:PHE:CG	9:Y:96:THR:N	2.73	0.54
1:1:121:DG:C6	1:1:122:DC:C4	2.95	0.54
2:2:42:DT:C6	2:2:43:DG:C4	2.95	0.54
2:2:43:DG:N3	2:2:44:DA:C5	2.75	0.54
2:2:48:DT:C2	2:2:49:DT:C5	2.95	0.54
3:A:185:VAL:O	3:A:192:LYS:HD3	2.06	0.54
3:A:238:LEU:HG	3:A:256:LEU:HD23	1.89	0.54
3:A:552:ARG:NH1	3:A:892:ARG:CG	2.67	0.54
3:A:609:ARG:HA	3:A:635:ILE:CG1	2.37	0.54
3:A:618:SER:C	3:A:621:SER:H	2.10	0.54
3:A:720:GLU:HG3	3:A:722:TYR:CE1	2.42	0.54
3:A:902:LEU:O	3:A:903:LEU:C	2.41	0.54
3:A:1046:GLN:NE2	3:A:1047:GLY:N	2.55	0.54
4:B:87:GLU:HG2	4:B:88:VAL:H	1.71	0.54
4:B:93:LYS:HE3	4:B:372:HIS:NE2	2.22	0.54
4:B:93:LYS:CA	4:B:96:ASP:H	2.20	0.54
4:B:168:THR:HG22	4:B:171:GLU:OE2	2.07	0.54
4:B:207:VAL:CG1	4:B:294:VAL:HG12	2.36	0.54
4:B:583:GLN:CG	4:B:584:ASN:H	2.12	0.54
4:B:643:ILE:N	4:B:680:ILE:HA	2.21	0.54
4:B:675:THR:HG21	4:B:683:GLU:HG3	1.88	0.54
4:B:717:GLN:OE1	4:B:717:GLN:N	2.40	0.54
4:B:731:PRO:C	4:B:733:GLY:N	2.60	0.54
4:B:942:GLY:N	4:B:965:THR:OG1	2.40	0.54
5:C:134:GLY:O	5:C:135:LYS:CG	2.55	0.54
5:C:201:ASN:CG	5:C:203:SER:H	2.10	0.54
5:D:25:LEU:O	5:D:26:GLU:C	2.45	0.54
5:D:63:HIS:CD2	5:D:65:PHE:HD2	2.25	0.54
6:E:94:THR:CB	6:E:98:VAL:HG21	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:278:ARG:HG2	6:E:279:VAL:N	2.09	0.54
6:E:552:LEU:O	6:E:610:PRO:HD2	2.07	0.54
9:X:53:LYS:H	9:X:95:PHE:HB3	1.72	0.54
9:X:169:THR:OG1	9:X:170:ILE:O	2.23	0.54
9:Y:43:ARG:HG3	9:Y:44:VAL:H	1.70	0.54
9:Y:45:TYR:H	9:Y:75:PHE:C	2.11	0.54
9:Y:206:HIS:O	9:Y:209:LYS:HG2	2.06	0.54
1:1:101:DT:H2'	1:1:102:DA:C5'	2.35	0.54
3:A:32:GLU:C	3:A:34:GLN:N	2.57	0.54
3:A:105:GLU:HG2	3:A:106:THR:N	2.22	0.54
3:A:156:ASN:CG	3:A:157:GLY:N	2.61	0.54
3:A:237:GLU:HG3	3:A:240:ARG:HH22	1.72	0.54
3:A:263:ASP:O	3:A:264:PRO:C	2.42	0.54
3:A:350:ARG:HH21	3:A:364:LEU:HA	1.72	0.54
3:A:366:ASN:OD1	3:A:368:LYS:HG3	2.07	0.54
3:A:676:GLU:C	3:A:678:GLY:N	2.53	0.54
3:A:790:ALA:O	3:A:793:GLY:N	2.40	0.54
3:A:893:MET:CE	4:B:163:PHE:CE2	2.90	0.54
3:A:959:VAL:O	3:A:967:ALA:HA	2.07	0.54
4:B:162:ASN:OD1	4:B:163:PHE:N	2.40	0.54
4:B:197:THR:O	4:B:201:VAL:HG12	2.07	0.54
4:B:528:ALA:O	4:B:535:ARG:CZ	2.55	0.54
4:B:553:VAL:HG21	4:B:562:TYR:CZ	2.42	0.54
4:B:574:LEU:HB3	4:B:577:THR:HA	1.88	0.54
4:B:575:ARG:HB2	4:B:588:VAL:N	2.22	0.54
4:B:1026:ALA:CB	4:B:1088:SER:HA	2.36	0.54
4:B:1238:ASN:OD1	4:B:1238:ASN:N	2.22	0.54
5:C:76:LEU:O	5:C:79:ILE:HG23	2.07	0.54
5:C:123:PRO:O	5:C:124:THR:CB	2.54	0.54
5:C:188:SER:O	5:C:189:ILE:CG1	2.52	0.54
6:E:41:LYS:HD3	6:E:55:ASP:HB3	1.88	0.54
6:E:148:LEU:HG	6:E:185:GLU:CB	2.37	0.54
6:E:252:ILE:CG2	6:E:253:PRO:HD2	2.38	0.54
8:G:186:GLU:O	8:G:189:LEU:HB2	2.07	0.54
9:X:202:MET:HE3	9:X:219:SER:HB3	1.89	0.54
9:Y:48:LEU:HD21	9:Y:101:LEU:HB3	1.89	0.54
2:2:48:DT:C6	2:2:49:DT:C7	2.90	0.54
3:A:25:PHE:CD1	3:A:26:LEU:N	2.75	0.54
3:A:129:ILE:O	3:A:129:ILE:HG13	2.04	0.54
3:A:281:LEU:HB2	3:A:283:LEU:HD11	1.89	0.54
3:A:429:ARG:HH22	3:A:481:THR:HG22	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:431:CYS:SG	3:A:433:ILE:N	2.73	0.54
3:A:1028:PHE:HD2	6:E:491:MET:HE1	1.72	0.54
4:B:92:GLN:C	4:B:95:ILE:HG22	2.28	0.54
4:B:250:HIS:CE1	4:B:252:LYS:HZ2	2.25	0.54
4:B:268:LEU:HD23	4:B:268:LEU:C	2.27	0.54
4:B:627:GLY:C	4:B:745:ALA:HA	2.28	0.54
4:B:785:VAL:CB	4:B:786:GLU:OE1	2.54	0.54
4:B:1008:ILE:HB	4:B:1009:GLN:HG2	1.89	0.54
4:B:1028:ILE:HG21	4:B:1082:PRO:CA	2.37	0.54
4:B:1078:PRO:CB	4:B:1100:LEU:HD13	2.37	0.54
5:C:63:HIS:CD2	5:C:65:PHE:N	2.66	0.54
5:C:96:ILE:C	5:C:115:PRO:HD3	2.27	0.54
5:C:220:LEU:N	5:C:220:LEU:CD1	2.67	0.54
6:E:147:VAL:HG21	6:E:152:ASN:HB3	1.89	0.54
6:E:311:ASP:C	6:E:311:ASP:OD2	2.43	0.54
6:E:511:GLN:N	6:E:511:GLN:OE1	2.41	0.54
6:E:543:MET:O	6:E:544:ALA:C	2.42	0.54
8:G:163:LEU:HD12	8:G:164:ARG:CB	2.36	0.54
8:G:242:ILE:HG12	8:G:266:MET:CE	2.37	0.54
8:G:322:LEU:CA	8:G:325:VAL:HG12	2.37	0.54
9:X:95:PHE:CG	9:X:96:THR:N	2.73	0.54
9:Y:35:PHE:CE1	9:Y:88:ARG:HB3	2.42	0.54
9:Y:53:LYS:CD	9:Y:68:LEU:HD22	2.37	0.54
9:Y:137:ILE:HA	9:Y:140:LEU:HD21	1.89	0.54
1:1:90:DA:C2	1:1:91:DT:C2	2.96	0.54
1:1:114:DC:O3'	1:1:115:DA:H3'	2.08	0.54
2:2:35:DA:C4	2:2:36:DT:C4	2.96	0.54
2:2:51:DT:C6	2:2:52:DA:C8	2.95	0.54
3:A:70:HIS:HE1	3:A:71:ASN:ND2	1.65	0.54
3:A:74:LEU:HD22	3:A:94:GLN:C	2.27	0.54
3:A:270:GLY:O	3:A:273:GLY:CA	2.55	0.54
3:A:432:PRO:C	3:A:433:ILE:HD13	2.27	0.54
3:A:456:TYR:N	3:A:456:TYR:CD1	2.64	0.54
3:A:950:ASN:HD21	3:A:956:LYS:HB2	1.73	0.54
4:B:38:ASP:O	4:B:39:LEU:C	2.42	0.54
4:B:40:GLY:O	4:B:41:PHE:C	2.42	0.54
4:B:189:ARG:NH2	4:B:330:LEU:O	2.41	0.54
4:B:208:ILE:HG23	4:B:313:GLU:C	2.28	0.54
4:B:296:GLN:HG3	4:B:311:LEU:HD21	1.89	0.54
4:B:384:ILE:HB	4:B:393:GLY:HA2	1.88	0.54
4:B:539:ILE:CD1	4:B:764:ARG:HH22	2.18	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:618:LYS:C	4:B:621:TYR:OH	2.46	0.54
6:E:28:ARG:NH2	6:E:102:ARG:HA	2.22	0.54
6:E:582:GLY:H	6:E:597:ALA:HB3	1.71	0.54
7:F:38:ARG:O	7:F:41:ARG:N	2.41	0.54
7:F:59:LEU:HA	7:F:62:ILE:HD12	1.89	0.54
8:G:200:HIS:CE1	8:G:201:GLU:OE2	2.60	0.54
9:Y:43:ARG:HH11	9:Y:44:VAL:HG23	1.69	0.54
1:1:116:DC:C6	1:1:117:DG:N7	2.75	0.54
3:A:49:GLU:O	3:A:50:LEU:C	2.43	0.54
3:A:78:LYS:C	3:A:79:TYR:CD1	2.81	0.54
3:A:129:ILE:HB	3:A:133:ALA:O	2.08	0.54
3:A:199:LEU:CD2	3:A:229:PHE:CZ	2.91	0.54
3:A:729:THR:C	3:A:731:LEU:N	2.61	0.54
3:A:868:ILE:CG2	3:A:869:GLU:N	2.70	0.54
3:A:1047:GLY:O	3:A:1048:ARG:C	2.45	0.54
4:B:32:MET:HG2	4:B:33:ALA:N	2.21	0.54
4:B:471:THR:HB	4:B:980:LEU:N	2.23	0.54
4:B:479:LEU:HD23	4:B:971:PRO:CB	2.29	0.54
4:B:482:ILE:CG2	4:B:970:ARG:HH11	2.15	0.54
4:B:533:SER:HB3	4:B:535:ARG:NH2	2.23	0.54
4:B:539:ILE:O	4:B:539:ILE:HG13	2.07	0.54
4:B:636:THR:HB	4:B:784:SER:N	2.23	0.54
4:B:700:VAL:HG21	4:B:736:LEU:HD21	1.90	0.54
4:B:722:LEU:HD12	4:B:722:LEU:O	2.07	0.54
4:B:928:LEU:CD2	4:B:934:ALA:H	2.10	0.54
4:B:1051:VAL:HG12	4:B:1052:ILE:N	2.17	0.54
4:B:1156:ASP:H	4:B:1164:PRO:HB3	1.71	0.54
5:D:15:GLU:HB2	5:D:18:ASN:ND2	2.20	0.54
5:D:53:VAL:HG12	5:D:54:THR:N	2.23	0.54
5:D:181:GLU:OE2	5:D:193:ARG:CB	2.41	0.54
5:D:214:ALA:O	5:D:218:VAL:HG23	2.07	0.54
6:E:336:ASP:HA	6:E:339:GLU:CD	2.27	0.54
8:G:132:GLU:OE1	8:G:139:LEU:HB3	2.07	0.54
9:X:30:ARG:HG3	9:X:97:PRO:CD	2.30	0.54
9:X:169:THR:HB	9:X:211:THR:HA	1.90	0.54
9:Y:111:ALA:HB1	9:Y:118:LEU:HD13	1.88	0.54
1:1:86:DG:O6	2:2:39:DT:O4	2.26	0.54
1:1:86:DG:C6	1:1:87:DA:C6	2.96	0.54
1:1:114:DC:H2"	1:1:115:DA:C8	2.42	0.54
2:2:34:DA:C4	2:2:35:DA:N7	2.76	0.54
3:A:93:VAL:O	3:A:118:ASP:HA	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:263:ASP:CB	3:A:265:LYS:HB3	2.38	0.54
3:A:307:LEU:HD23	3:A:307:LEU:N	2.22	0.54
3:A:405:LEU:HD12	3:A:405:LEU:N	2.22	0.54
3:A:496:PRO:CA	3:A:922:MET:HG2	2.31	0.54
3:A:545:LEU:O	3:A:546:GLU:C	2.46	0.54
3:A:547:HIS:CE1	4:B:164:ARG:O	2.61	0.54
3:A:597:ASP:H	3:A:615:PRO:N	2.05	0.54
3:A:660:GLY:O	3:A:661:GLU:HB3	2.08	0.54
3:A:676:GLU:C	3:A:676:GLU:CD	2.62	0.54
3:A:691:MET:HB3	3:A:692:PRO:CD	2.38	0.54
3:A:1072:VAL:HG12	3:A:1073:LEU:N	2.14	0.54
4:B:87:GLU:C	4:B:89:GLU:N	2.58	0.54
4:B:144:ARG:HH21	4:B:163:PHE:HE2	1.54	0.54
4:B:174:ILE:O	4:B:175:SER:C	2.44	0.54
4:B:184:VAL:HG23	4:B:185:ASP:N	2.22	0.54
4:B:332:MET:CE	4:B:1007:ILE:HG12	2.37	0.54
4:B:463:LYS:HG3	4:B:472:THR:HG22	1.78	0.54
4:B:463:LYS:H	4:B:472:THR:HG21	1.69	0.54
4:B:593:ASP:O	4:B:593:ASP:OD1	2.26	0.54
4:B:1019:GLU:HB2	4:B:1021:ARG:HD3	1.90	0.54
4:B:1241:ILE:HG13	4:B:1241:ILE:O	2.07	0.54
5:D:107:ILE:HA	5:D:111:HIS:CE1	2.43	0.54
5:D:123:PRO:O	5:D:124:THR:CB	2.54	0.54
5:D:183:VAL:HG21	5:D:193:ARG:HE	1.73	0.54
6:E:63:PHE:HB2	6:E:99:ARG:NH1	2.22	0.54
6:E:492:LEU:O	6:E:493:ALA:C	2.44	0.54
9:X:47:LEU:CB	9:X:100:LEU:CD2	2.86	0.54
9:Y:57:VAL:CG2	9:Y:91:HIS:HB3	2.36	0.54
2:2:3:DT:O2	2:2:4:DG:N1	2.40	0.54
3:A:42:LEU:O	3:A:43:GLU:C	2.44	0.54
3:A:274:ARG:C	3:A:278:ASN:HD21	2.09	0.54
3:A:274:ARG:HD2	3:A:289:VAL:HG12	1.90	0.54
3:A:725:GLU:O	3:A:725:GLU:HG3	2.03	0.54
3:A:738:ARG:HE	3:A:748:LEU:HD13	1.72	0.54
3:A:774:THR:N	3:A:800:ARG:O	2.40	0.54
4:B:64:SER:O	4:B:65:LEU:C	2.45	0.54
4:B:65:LEU:HD21	4:B:105:LEU:HD13	1.90	0.54
4:B:93:LYS:O	4:B:95:ILE:N	2.39	0.54
4:B:158:PRO:O	4:B:160:LYS:HD2	2.08	0.54
4:B:288:CYS:SG	4:B:298:CYS:HB2	2.47	0.54
5:C:78:ILE:O	5:C:80:MET:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:186:ASP:HA	5:C:190:PRO:N	2.23	0.54
5:C:227:ILE:HD13	5:D:6:ILE:N	2.22	0.54
5:D:38:ASN:C	5:D:38:ASN:OD1	2.44	0.54
6:E:41:LYS:HB3	6:E:43:GLU:OE1	2.08	0.54
6:E:76:TYR:CE2	6:E:81:HIS:NE2	2.75	0.54
6:E:206:ALA:C	6:E:210:ARG:HD2	2.21	0.54
6:E:385:GLN:HB3	6:E:386:PRO:HD3	1.90	0.54
8:G:186:GLU:N	8:G:186:GLU:OE2	2.41	0.54
8:G:224:ASP:O	8:G:225:GLN:OE1	2.26	0.54
9:X:47:LEU:CD1	9:X:100:LEU:HD23	2.31	0.54
9:X:195:GLY:O	9:X:200:LYS:N	2.39	0.54
9:Y:28:PHE:H	9:Y:98:VAL:CB	2.20	0.54
1:1:70:DC:H2"	1:1:71:DT:H72	1.90	0.54
1:1:90:DA:H8	1:1:90:DA:OP2	1.90	0.54
1:1:120:DT:O2	1:1:121:DG:H5'	2.07	0.54
2:2:39:DT:P	2:2:39:DT:H2'	2.48	0.54
3:A:56:ILE:O	3:A:57:THR:OG1	2.24	0.54
3:A:67:PHE:CE1	3:A:99:THR:CB	2.79	0.54
3:A:546:GLU:OE2	3:A:547:HIS:CE1	2.58	0.54
3:A:594:THR:O	3:A:665:ALA:N	2.40	0.54
3:A:717:ILE:CG2	3:A:718:HIS:N	2.71	0.54
4:B:488:TYR:HB3	4:B:490:LEU:CD2	2.33	0.54
4:B:520:GLY:O	4:B:760:GLN:CD	2.47	0.54
4:B:612:GLN:N	4:B:612:GLN:OE1	2.41	0.54
4:B:1089:ASN:HB2	4:B:1092:GLU:HG3	1.90	0.54
4:B:1127:MET:O	4:B:1128:VAL:C	2.43	0.54
4:B:1215:GLU:CB	4:B:1218:ARG:HB3	2.37	0.54
5:C:53:VAL:HG12	5:C:54:THR:N	2.23	0.54
5:C:207:GLN:O	5:C:208:GLU:C	2.42	0.54
5:D:157:GLU:OE1	5:D:157:GLU:N	2.41	0.54
5:D:159:THR:HG22	5:D:163:PHE:HB3	1.89	0.54
6:E:67:LYS:HB2	6:E:70:GLU:OE1	2.05	0.54
6:E:140:VAL:O	6:E:141:TYR:HB2	2.05	0.54
8:G:231:LEU:HD11	8:G:279:SER:O	2.08	0.54
9:Y:78:LEU:CD1	9:Y:88:ARG:NH1	2.61	0.54
9:Y:95:PHE:HZ	9:Y:172:LEU:HD21	1.73	0.54
1:1:74:DT:C1'	1:1:75:DA:H5'	2.37	0.54
1:1:80:DA:H2"	1:1:81:DT:H6	1.71	0.54
1:1:81:DT:N3	2:2:45:DA:N6	2.55	0.54
1:1:86:DG:N1	2:2:39:DT:N3	2.56	0.54
2:2:43:DG:C1'	2:2:44:DA:C8	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:53:PHE:CE2	3:A:340:LEU:CB	2.80	0.54
3:A:376:GLU:O	3:A:377:PHE:C	2.42	0.54
3:A:601:VAL:O	3:A:602:ASP:C	2.43	0.54
3:A:688:VAL:CG2	3:A:689:ALA:N	2.67	0.54
3:A:735:GLU:O	3:A:772:LYS:CG	2.51	0.54
4:B:21:PHE:O	4:B:24:TYR:O	2.26	0.54
4:B:71:GLU:O	4:B:74:ARG:HB2	2.08	0.54
4:B:499:LYS:CB	4:B:889:LYS:HZ2	2.19	0.54
4:B:499:LYS:HD3	4:B:889:LYS:HD3	1.89	0.54
4:B:645:LEU:C	4:B:662:LYS:HZ3	2.11	0.54
4:B:713:GLU:OE1	4:B:714:LEU:N	2.41	0.54
5:D:63:HIS:CD2	5:D:65:PHE:N	2.66	0.54
5:D:99:LEU:HD13	5:D:112:PHE:CA	2.36	0.54
6:E:217:LYS:C	6:E:221:ARG:HH11	2.10	0.54
8:G:131:SER:OG	8:G:133:TRP:N	2.34	0.54
9:Y:214:LYS:HD3	9:Y:217:THR:C	2.29	0.54
1:1:75:DA:H1'	1:1:76:DC:P	2.48	0.53
2:2:6:DA:H2'	2:2:7:DT:C5	2.43	0.53
2:2:43:DG:H2'	2:2:43:DG:P	2.49	0.53
2:2:55:DA:H2'	2:2:56:DG:O4'	2.08	0.53
3:A:617:ALA:CA	3:A:620:LYS:HG3	2.38	0.53
3:A:968:PHE:CE1	4:B:48:GLY:C	2.81	0.53
3:A:1007:GLY:HA2	3:A:1013:GLY:HA2	1.90	0.53
4:B:60:PRO:HG2	4:B:108:GLU:OE2	2.08	0.53
4:B:99:ASN:HA	4:B:102:SER:OG	2.07	0.53
4:B:232:LEU:N	4:B:232:LEU:CD2	2.71	0.53
4:B:321:GLN:HB3	6:E:436:LEU:HG	1.89	0.53
4:B:325:GLU:HB2	4:B:326:PRO:CD	2.30	0.53
4:B:369:ARG:CZ	4:B:1000:GLU:O	2.56	0.53
4:B:458:VAL:HB	4:B:474:ALA:HB1	1.89	0.53
4:B:1128:VAL:HG13	4:B:1129:TYR:N	2.22	0.53
5:C:63:HIS:HD2	5:C:65:PHE:N	2.06	0.53
5:C:83:LYS:N	5:C:84:GLU:OE1	2.40	0.53
5:D:85:VAL:HA	5:D:125:GLN:HE22	1.72	0.53
5:D:86:ILE:HG13	5:D:125:GLN:HE22	1.73	0.53
6:E:512:ASP:HA	6:E:515:LEU:HG	1.90	0.53
8:G:232:PRO:HG2	8:G:235:LEU:CB	2.37	0.53
2:2:59:DG:H2'	2:2:60:DC:C6	2.42	0.53
3:A:27:LEU:HD11	3:A:450:HIS:CD2	2.44	0.53
3:A:249:THR:O	3:A:250:VAL:C	2.46	0.53
3:A:466:VAL:HG23	3:A:469:GLY:HA2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:569:PRO:HG2	3:A:674:SER:HB2	1.90	0.53
3:A:616:THR:OG1	3:A:631:LYS:O	2.25	0.53
3:A:1028:PHE:CD2	6:E:491:MET:HE2	2.43	0.53
3:A:1090:GLU:HG2	3:A:1095:GLY:O	2.08	0.53
4:B:93:LYS:CE	4:B:375:ASP:CA	2.86	0.53
4:B:199:ARG:O	4:B:200:LEU:C	2.43	0.53
4:B:499:LYS:HZ2	4:B:890:GLY:H	1.56	0.53
4:B:651:GLY:O	4:B:732:GLU:HG2	2.07	0.53
4:B:666:CYS:SG	4:B:668:ASN:N	2.81	0.53
4:B:773:ARG:O	4:B:791:LEU:HD12	2.09	0.53
4:B:841:ARG:O	4:B:843:ASP:N	2.41	0.53
4:B:1091:HIS:ND1	4:B:1092:GLU:HG3	2.21	0.53
4:B:1142:GLU:O	4:B:1143:VAL:C	2.40	0.53
5:C:77:GLU:C	5:C:77:GLU:CD	2.65	0.53
5:C:215:GLY:O	5:C:216:ILE:C	2.43	0.53
5:D:121:ILE:C	5:D:122:ASP:OD1	2.47	0.53
5:D:148:TYR:N	5:D:148:TYR:HD1	2.03	0.53
6:E:145:TYR:HB2	6:E:162:LEU:CB	2.32	0.53
6:E:574:VAL:O	6:E:587:LEU:HB2	2.09	0.53
8:G:354:ILE:HA	8:G:357:ILE:HB	1.90	0.53
9:Y:169:THR:HB	9:Y:211:THR:HA	1.90	0.53
1:1:75:DA:N6	2:2:52:DA:N1	2.55	0.53
1:1:102:DA:C5	1:1:103:DA:N6	2.76	0.53
2:2:52:DA:H2"	2:2:53:DT:C5'	2.22	0.53
3:A:46:LEU:O	3:A:47:ILE:O	2.27	0.53
3:A:53:PHE:CD2	3:A:340:LEU:HD13	2.40	0.53
3:A:116:ILE:HD12	3:A:116:ILE:N	2.22	0.53
3:A:598:VAL:O	3:A:660:GLY:N	2.40	0.53
3:A:797:ARG:HH21	3:A:798:ASP:CB	2.21	0.53
3:A:828:LEU:HD12	3:A:828:LEU:C	2.28	0.53
4:B:384:ILE:HG23	4:B:394:SER:HB3	1.89	0.53
4:B:452:GLU:HA	4:B:987:LEU:CG	2.17	0.53
4:B:467:GLN:HB2	4:B:979:VAL:HG12	1.90	0.53
4:B:543:SER:C	4:B:831:GLN:HE21	2.12	0.53
4:B:938:GLY:HA3	4:B:969:GLY:N	2.23	0.53
4:B:1010:GLY:O	4:B:1013:ARG:HB3	2.08	0.53
4:B:1016:GLU:O	4:B:1018:LEU:N	2.41	0.53
4:B:1244:LEU:HG	4:B:1245:ILE:H	1.73	0.53
5:C:42:ARG:NE	5:D:35:THR:HB	2.23	0.53
5:D:78:ILE:O	5:D:80:MET:N	2.41	0.53
6:E:196:LEU:O	6:E:197:LEU:C	2.45	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:234:PHE:HD1	6:E:239:SER:HB3	1.73	0.53
6:E:322:THR:HG21	6:E:330:PRO:HB3	1.91	0.53
6:E:611:GLY:C	6:E:613:VAL:N	2.59	0.53
8:G:130:ASP:CG	8:G:133:TRP:HB3	2.27	0.53
8:G:316:ASN:O	8:G:317:LEU:C	2.46	0.53
9:X:37:PRO:HG3	9:X:90:TYR:N	2.23	0.53
9:X:176:HIS:C	9:X:189:THR:OG1	2.40	0.53
9:X:204:SER:N	9:X:211:THR:OG1	2.42	0.53
9:Y:43:ARG:H	9:Y:105:ILE:CD1	2.21	0.53
9:Y:148:ARG:HD2	9:Y:183:ILE:CD1	2.34	0.53
9:Y:188:VAL:O	9:Y:192:ARG:HG2	2.09	0.53
1:1:59:DT:N1	1:1:60:DT:C4	2.76	0.53
1:1:68:DT:H2"	1:1:69:DA:C8	2.43	0.53
1:1:90:DA:C6	1:1:91:DT:C4	2.97	0.53
1:1:108:DA:N3	1:1:109:DG:C2	2.76	0.53
1:1:109:DG:N3	1:1:110:DC:C4	2.76	0.53
2:2:27:DA:C3'	8:G:237:GLU:OE1	2.56	0.53
2:2:29:DA:H2"	2:2:30:DG:OP2	2.08	0.53
2:2:39:DT:C2	2:2:40:DC:C5	2.96	0.53
3:A:57:THR:O	3:A:348:ARG:NH2	2.41	0.53
3:A:352:THR:HG22	3:A:353:VAL:HA	1.91	0.53
3:A:609:ARG:CZ	3:A:637:TYR:N	2.71	0.53
3:A:941:ASP:OD1	3:A:941:ASP:C	2.42	0.53
3:A:943:THR:HG23	3:A:945:LYS:H	1.73	0.53
3:A:1028:PHE:HD2	6:E:491:MET:HE2	1.73	0.53
3:A:1038:LEU:N	3:A:1038:LEU:HD22	2.22	0.53
3:A:1046:GLN:O	3:A:1047:GLY:C	2.47	0.53
4:B:71:GLU:OE2	4:B:419:LYS:HG2	2.08	0.53
4:B:105:LEU:O	4:B:106:LYS:C	2.47	0.53
4:B:157:LEU:H	4:B:157:LEU:HD23	1.72	0.53
4:B:250:HIS:O	4:B:250:HIS:CG	2.62	0.53
4:B:367:THR:HG1	4:B:370:THR:HG1	1.51	0.53
4:B:463:LYS:HG2	4:B:472:THR:CB	2.35	0.53
4:B:526:PRO:HB3	4:B:536:GLU:C	2.29	0.53
4:B:655:GLU:C	4:B:657:GLY:N	2.61	0.53
4:B:660:VAL:HG23	4:B:664:ILE:C	2.29	0.53
4:B:678:ASN:OD1	4:B:681:LEU:HA	2.09	0.53
4:B:703:ARG:NH1	4:B:708:LEU:HD13	2.23	0.53
4:B:843:ASP:CB	4:B:855:THR:HG21	2.38	0.53
4:B:864:THR:O	4:B:865:ILE:C	2.46	0.53
4:B:1190:TYR:O	4:B:1191:THR:C	2.45	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:101:VAL:HG11	5:C:107:ILE:HD11	1.87	0.53
5:D:118:VAL:HG11	5:D:142:ILE:HB	1.82	0.53
5:D:196:LEU:HD23	5:D:196:LEU:C	2.29	0.53
6:E:255:ASP:OD1	6:E:256:LEU:N	2.42	0.53
6:E:277:ARG:O	6:E:278:ARG:C	2.41	0.53
6:E:309:ALA:O	6:E:312:ALA:N	2.42	0.53
6:E:311:ASP:O	6:E:314:ILE:N	2.41	0.53
6:E:336:ASP:H	6:E:339:GLU:HG3	1.74	0.53
6:E:373:CYS:SG	6:E:444:PHE:HB3	2.49	0.53
6:E:547:GLN:N	6:E:547:GLN:CD	2.60	0.53
6:E:583:SER:O	6:E:583:SER:OG	2.25	0.53
7:F:34:GLN:O	7:F:37:ASN:OD1	2.27	0.53
8:G:183:LEU:O	8:G:185:GLN:N	2.42	0.53
9:Y:125:GLY:O	9:Y:128:SER:HB3	2.07	0.53
1:1:58:DA:C2	2:2:68:DT:C2	2.82	0.53
3:A:33:ILE:CG2	3:A:34:GLN:N	2.68	0.53
3:A:341:ASN:O	3:A:344:GLU:HB3	2.08	0.53
3:A:489:ARG:HB3	3:A:524:VAL:HG13	1.91	0.53
3:A:616:THR:CA	3:A:635:ILE:HD11	2.38	0.53
4:B:105:LEU:O	4:B:107:ASP:N	2.42	0.53
4:B:285:PRO:HD2	4:B:1142:GLU:OE1	2.08	0.53
4:B:360:PRO:HA	4:B:390:ARG:CG	2.39	0.53
4:B:362:LYS:HD2	4:B:364:ARG:NH2	2.23	0.53
4:B:384:ILE:HG21	4:B:394:SER:HB3	1.91	0.53
4:B:455:PHE:O	4:B:456:ALA:HB2	2.09	0.53
4:B:545:VAL:HG22	4:B:829:ARG:HD3	1.90	0.53
4:B:604:LEU:HB2	4:B:631:TRP:HE3	1.69	0.53
4:B:610:GLU:CB	4:B:625:GLN:HE21	2.21	0.53
4:B:724:TYR:O	4:B:738:SER:HA	2.08	0.53
4:B:800:GLU:CG	4:B:801:GLN:N	2.66	0.53
4:B:964:VAL:HG12	4:B:965:THR:H	1.74	0.53
4:B:1011:LEU:N	4:B:1012:PRO:CD	2.71	0.53
4:B:1132:GLN:N	4:B:1132:GLN:CD	2.62	0.53
5:C:78:ILE:C	5:C:80:MET:H	2.12	0.53
5:C:86:ILE:HG13	5:C:125:GLN:HE22	1.73	0.53
5:C:121:ILE:C	5:C:122:ASP:OD1	2.47	0.53
5:C:130:ILE:HB	5:C:136:LEU:CG	2.39	0.53
5:D:114:LEU:HD12	5:D:114:LEU:C	2.29	0.53
6:E:141:TYR:O	6:E:142:PHE:C	2.42	0.53
6:E:283:ASN:O	6:E:286:LEU:N	2.41	0.53
6:E:582:GLY:CA	6:E:598:GLN:H	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:189:LEU:O	8:G:190:GLY:C	2.43	0.53
8:G:339:LEU:HB3	8:G:354:ILE:CD1	2.38	0.53
1:1:89:DA:H2"	1:1:90:DA:OP2	2.07	0.53
2:2:5:DC:H1'	2:2:6:DA:C8	2.43	0.53
2:2:26:DA:H4'	2:2:27:DA:OP2	2.09	0.53
3:A:29:ASP:OD1	3:A:29:ASP:O	2.27	0.53
3:A:188:ASP:CG	3:A:191:ARG:HB2	2.21	0.53
3:A:378:PHE:O	3:A:379:GLY:C	2.45	0.53
3:A:423:HIS:C	3:A:425:SER:H	2.10	0.53
3:A:555:MET:O	3:A:556:GLY:C	2.47	0.53
3:A:847:GLN:O	3:A:850:ASP:OD2	2.26	0.53
3:A:1085:ALA:O	3:A:1087:HIS:N	2.42	0.53
4:B:72:GLU:HG2	4:B:418:VAL:CG1	2.38	0.53
4:B:378:PHE:CD1	4:B:413:VAL:HG12	2.29	0.53
4:B:476:ARG:O	4:B:976:PRO:HG3	2.09	0.53
4:B:535:ARG:O	4:B:839:VAL:HG13	2.09	0.53
4:B:928:LEU:HD11	4:B:934:ALA:N	2.23	0.53
4:B:1032:ARG:HB2	4:B:1078:PRO:HB3	1.90	0.53
4:B:1088:SER:HB2	4:B:1093:ILE:HG23	1.90	0.53
5:C:85:VAL:HA	5:C:125:GLN:HE22	1.72	0.53
5:C:88:LYS:H	5:C:121:ILE:CD1	2.17	0.53
5:C:196:LEU:HD23	5:C:196:LEU:C	2.29	0.53
5:D:75:VAL:O	5:D:78:ILE:HB	2.09	0.53
6:E:541:VAL:HG13	6:E:542:ILE:H	1.72	0.53
8:G:124:LEU:O	8:G:126:ARG:N	2.42	0.53
9:X:28:PHE:HB3	9:X:32:LYS:CD	2.38	0.53
9:X:52:VAL:HG11	9:X:100:LEU:HD11	0.89	0.53
9:X:145:MET:CB	9:X:183:ILE:CG2	2.85	0.53
9:X:152:PHE:O	9:X:156:LEU:HG	2.09	0.53
9:X:218:LEU:C	9:X:220:ARG:H	2.11	0.53
1:1:77:DA:C2	1:1:78:DA:C2	2.97	0.53
2:2:34:DA:C4	2:2:35:DA:C8	2.96	0.53
3:A:305:ILE:O	3:A:306:ASN:C	2.45	0.53
3:A:552:ARG:O	3:A:555:MET:N	2.42	0.53
3:A:559:MET:HE1	3:A:857:GLY:HA2	1.90	0.53
3:A:597:ASP:CG	3:A:662:ARG:CZ	2.77	0.53
3:A:693:TRP:CD1	3:A:703:LEU:HD21	2.44	0.53
3:A:695:GLY:O	3:A:698:TYR:HB3	2.08	0.53
3:A:790:ALA:C	3:A:793:GLY:H	2.12	0.53
3:A:804:LEU:HD12	3:A:805:ARG:N	2.24	0.53
3:A:1085:ALA:HB3	6:E:13:LYS:CB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:19:TRP:O	4:B:20:ALA:C	2.44	0.53
4:B:282:VAL:O	4:B:282:VAL:HG23	2.09	0.53
4:B:588:VAL:HG21	4:B:797:LEU:HG	1.90	0.53
4:B:600:THR:HA	4:B:785:VAL:C	2.29	0.53
4:B:771:VAL:HG13	4:B:794:GLN:HB3	1.90	0.53
4:B:811:PRO:HG2	4:B:812:LEU:CD1	2.38	0.53
4:B:928:LEU:HD11	4:B:934:ALA:CB	2.39	0.53
4:B:1038:VAL:HG22	4:B:1039:VAL:HG12	1.91	0.53
4:B:1086:GLY:O	4:B:1087:PRO:C	2.47	0.53
4:B:1123:ASN:O	4:B:1125:VAL:N	2.42	0.53
5:C:90:TYR:N	5:C:117:GLU:OE2	2.41	0.53
5:C:130:ILE:HB	5:C:136:LEU:HD21	1.90	0.53
5:D:25:LEU:O	5:D:193:ARG:HG2	2.09	0.53
5:D:57:ARG:HB2	5:D:139:GLU:OE1	2.09	0.53
6:E:275:LEU:O	6:E:276:TYR:C	2.43	0.53
6:E:276:TYR:O	6:E:278:ARG:N	2.42	0.53
9:Y:32:LYS:HG2	9:Y:33:THR:N	2.24	0.53
9:Y:67:ALA:C	9:Y:68:LEU:HG	2.29	0.53
1:1:68:DT:C2'	1:1:69:DA:C8	2.92	0.53
1:1:84:DA:C6	2:2:42:DT:N3	2.77	0.53
1:1:89:DA:N6	1:1:90:DA:C6	2.77	0.53
1:1:101:DT:O4	1:1:102:DA:C6	2.62	0.53
3:A:28:PRO:O	3:A:29:ASP:C	2.47	0.53
3:A:33:ILE:HG22	3:A:34:GLN:N	2.23	0.53
3:A:236:MET:CB	3:A:240:ARG:HH11	2.22	0.53
3:A:623:ASP:HB3	3:A:629:SER:O	2.09	0.53
4:B:16:LEU:O	4:B:19:TRP:N	2.41	0.53
4:B:66:LEU:CD1	4:B:143:MET:CE	2.86	0.53
4:B:89:GLU:HA	4:B:370:THR:CA	2.39	0.53
4:B:174:ILE:O	4:B:177:TYR:HB2	2.09	0.53
4:B:191:ALA:O	4:B:192:ASP:C	2.44	0.53
4:B:493:GLY:C	4:B:513:THR:HG21	2.29	0.53
4:B:538:GLU:HB2	4:B:539:ILE:O	2.07	0.53
4:B:548:GLN:HB2	4:B:753:PRO:HB2	1.91	0.53
4:B:646:LEU:CG	4:B:662:LYS:H	2.21	0.53
4:B:1144:ILE:O	4:B:1147:GLN:CA	2.57	0.53
4:B:1215:GLU:O	4:B:1219:VAL:HG12	2.09	0.53
6:E:94:THR:HG23	6:E:98:VAL:HG21	1.89	0.53
6:E:145:TYR:O	6:E:161:LEU:HA	2.09	0.53
6:E:199:ASP:C	6:E:199:ASP:OD1	2.44	0.53
6:E:224:LEU:O	6:E:226:LYS:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:564:VAL:HG12	6:E:565:GLU:N	2.24	0.53
8:G:87:GLN:HB3	8:G:91:ARG:HH22	1.74	0.53
8:G:139:LEU:HG	8:G:144:PHE:HB2	1.91	0.53
8:G:248:LEU:HA	8:G:251:GLN:CD	2.29	0.53
8:G:316:ASN:O	8:G:319:ARG:HD3	2.09	0.53
9:X:37:PRO:HD3	9:X:91:HIS:N	2.24	0.53
9:X:56:ARG:HB2	9:X:64:ILE:HG12	1.91	0.53
9:X:176:HIS:HB2	9:X:177:GLN:NE2	2.23	0.53
9:X:177:GLN:C	9:X:180:ALA:H	2.12	0.53
9:Y:35:PHE:CD1	9:Y:36:PHE:N	2.77	0.53
9:Y:46:PHE:CD2	9:Y:74:VAL:HG23	2.44	0.53
2:2:30:DG:OP2	2:2:30:DG:H8	1.92	0.53
2:2:31:DA:N1	2:2:32:DA:C4	2.77	0.53
2:2:37:DT:H4'	2:2:38:DT:OP1	2.08	0.53
2:2:49:DT:OP2	9:X:176:HIS:NE2	2.42	0.53
3:A:45:GLY:HA2	3:A:48:GLU:OE2	2.08	0.53
3:A:270:GLY:O	3:A:290:ARG:NH2	2.41	0.53
3:A:433:ILE:HG22	3:A:433:ILE:O	2.07	0.53
3:A:783:PRO:CB	8:G:342:GLY:HA3	2.38	0.53
3:A:1078:GLN:N	3:A:1082:LEU:HD12	2.20	0.53
4:B:4:ARG:N	6:E:616:ASN:HD21	2.01	0.53
4:B:286:LEU:CD2	4:B:1142:GLU:CG	2.79	0.53
4:B:352:LYS:HZ3	4:B:389:PRO:CB	2.21	0.53
4:B:526:PRO:HA	4:B:536:GLU:O	2.08	0.53
4:B:981:GLN:N	4:B:995:VAL:HA	2.23	0.53
4:B:989:GLN:H	4:B:992:ASP:CG	2.10	0.53
4:B:1014:ILE:O	4:B:1015:GLU:C	2.46	0.53
5:C:57:ARG:HB2	5:C:139:GLU:OE1	2.09	0.53
5:D:151:VAL:HG21	5:D:165:GLN:HG3	1.91	0.53
6:E:124:TYR:HD1	6:E:127:ILE:HD12	1.74	0.53
6:E:147:VAL:HB	6:E:152:ASN:HB3	1.89	0.53
6:E:231:ILE:O	6:E:234:PHE:N	2.42	0.53
6:E:406:LYS:O	6:E:410:ARG:HG2	2.09	0.53
6:E:443:ALA:CB	6:E:487:ALA:HB1	2.38	0.53
8:G:112:GLU:OE2	8:G:113:LEU:N	2.41	0.53
8:G:131:SER:O	8:G:133:TRP:N	2.41	0.53
8:G:132:GLU:O	8:G:135:GLU:O	2.27	0.53
8:G:338:ARG:HG2	8:G:343:LEU:CG	2.37	0.53
9:X:42:GLU:HG3	9:X:79:SER:N	2.24	0.53
9:Y:37:PRO:HB3	9:Y:89:PHE:HA	1.89	0.53
1:1:106:DG:C2	1:1:107:DG:C2	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:47:DT:C5'	2:2:47:DT:C6	2.91	0.53
3:A:39:ARG:O	3:A:40:TRP:C	2.46	0.53
3:A:57:THR:CB	3:A:64:GLU:HA	2.39	0.53
3:A:80:SER:OG	3:A:82:GLU:HB2	2.08	0.53
3:A:180:ASN:O	3:A:181:ASP:HB3	2.09	0.53
3:A:236:MET:CA	3:A:239:TYR:HB2	2.38	0.53
3:A:278:ASN:O	3:A:279:LYS:C	2.47	0.53
3:A:334:ASN:OD1	3:A:334:ASN:C	2.39	0.53
3:A:368:LYS:O	3:A:370:LEU:N	2.42	0.53
3:A:437:GLU:HG2	3:A:438:GLY:N	2.23	0.53
3:A:469:GLY:HA3	3:A:521:PRO:O	2.08	0.53
3:A:495:ILE:O	3:A:497:VAL:N	2.41	0.53
3:A:584:ARG:O	3:A:584:ARG:HG2	2.09	0.53
3:A:604:THR:O	3:A:639:VAL:HG12	2.10	0.53
3:A:614:LEU:O	3:A:618:SER:N	2.34	0.53
3:A:618:SER:CA	3:A:621:SER:H	2.22	0.53
3:A:691:MET:HB3	3:A:692:PRO:HD2	1.91	0.53
3:A:797:ARG:HH21	3:A:798:ASP:HB3	1.73	0.53
3:A:819:LEU:HD23	3:A:836:VAL:HG13	1.90	0.53
4:B:252:LYS:NZ	4:B:255:GLU:O	2.41	0.53
4:B:264:ILE:O	4:B:264:ILE:CG2	2.49	0.53
4:B:286:LEU:HG	4:B:1142:GLU:CD	2.29	0.53
4:B:463:LYS:HE3	4:B:466:ARG:CB	2.35	0.53
4:B:493:GLY:O	4:B:513:THR:HG21	2.08	0.53
4:B:520:GLY:HA2	4:B:806:GLU:O	2.09	0.53
4:B:544:VAL:HB	4:B:832:LEU:N	2.24	0.53
4:B:636:THR:HG21	4:B:783:LYS:HD3	1.91	0.53
4:B:877:LEU:HG	4:B:878:SER:N	2.24	0.53
4:B:895:ARG:HB2	4:B:896:ARG:HH12	1.73	0.53
4:B:1028:ILE:CG2	4:B:1082:PRO:C	2.77	0.53
4:B:1171:ARG:O	4:B:1172:GLN:C	2.48	0.53
5:D:75:VAL:O	5:D:76:LEU:C	2.46	0.53
5:D:76:LEU:O	5:D:78:ILE:N	2.42	0.53
5:D:78:ILE:C	5:D:80:MET:H	2.12	0.53
5:D:97:GLY:C	5:D:98:ARG:HH11	2.13	0.53
6:E:79:VAL:O	6:E:80:ARG:C	2.48	0.53
6:E:206:ALA:CB	6:E:210:ARG:HE	2.21	0.53
6:E:467:ASP:CB	6:E:469:ASP:H	2.21	0.53
6:E:531:ALA:HA	6:E:555:TYR:O	2.09	0.53
8:G:319:ARG:H	8:G:319:ARG:HD2	1.74	0.53
9:Y:118:LEU:HD12	9:Y:119:SER:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:169:THR:HB	9:Y:210:ILE:O	2.09	0.53
1:1:120:DT:C4	1:1:121:DG:C5	2.97	0.52
2:2:38:DT:C5	2:2:39:DT:H73	2.44	0.52
2:2:50:DG:C4	2:2:51:DT:C6	2.97	0.52
2:2:58:DA:N9	2:2:59:DG:C8	2.76	0.52
3:A:467:GLU:CG	3:A:472:ARG:NH1	2.70	0.52
3:A:512:TYR:H	3:A:515:GLU:C	2.12	0.52
3:A:520:THR:O	3:A:522:GLU:N	2.43	0.52
3:A:520:THR:H	3:A:523:GLN:HE22	1.58	0.52
3:A:973:THR:C	3:A:974:ILE:HG12	2.29	0.52
3:A:1091:THR:CG2	3:A:1093:ALA:H	1.94	0.52
4:B:76:THR:HG23	4:B:90:ARG:HB2	1.91	0.52
4:B:149:ASP:HB3	4:B:155:ILE:HD11	1.91	0.52
4:B:194:GLY:O	4:B:197:THR:OG1	2.27	0.52
4:B:520:GLY:O	4:B:541:THR:CG2	2.57	0.52
4:B:520:GLY:C	4:B:760:GLN:OE1	2.48	0.52
4:B:544:VAL:HA	4:B:758:VAL:HG12	1.91	0.52
4:B:664:ILE:HG22	4:B:665:PHE:N	2.24	0.52
4:B:759:SER:H	4:B:761:GLN:CG	2.19	0.52
4:B:920:ASP:H	4:B:940:ILE:HG23	1.73	0.52
5:C:9:VAL:HG12	5:C:22:LYS:HB3	1.86	0.52
5:C:76:LEU:O	5:C:78:ILE:N	2.42	0.52
6:E:75:LYS:HE2	6:E:88:ARG:HD3	1.91	0.52
6:E:308:GLU:O	6:E:309:ALA:C	2.43	0.52
6:E:384:PHE:O	6:E:385:GLN:C	2.43	0.52
9:X:33:THR:HB	9:X:92:ALA:O	2.08	0.52
9:X:53:LYS:N	9:X:95:PHE:HB3	2.24	0.52
9:X:104:PRO:HB2	9:X:106:GLU:HG2	1.91	0.52
9:X:177:GLN:O	9:X:180:ALA:N	2.42	0.52
3:A:39:ARG:HB3	3:A:43:GLU:CD	2.25	0.52
3:A:109:ILE:HD12	3:A:111:GLU:CB	2.38	0.52
3:A:165:LEU:O	3:A:166:ILE:HG13	2.09	0.52
3:A:434:GLU:C	3:A:435:THR:OG1	2.47	0.52
3:A:512:TYR:O	3:A:515:GLU:N	2.41	0.52
3:A:571:ARG:HD3	3:A:913:ARG:CD	2.40	0.52
3:A:943:THR:C	3:A:945:LYS:H	2.13	0.52
4:B:107:ASP:O	4:B:108:GLU:C	2.47	0.52
4:B:203:VAL:HG13	4:B:1200:ALA:CB	2.39	0.52
4:B:453:VAL:CG2	4:B:482:ILE:CD1	2.86	0.52
4:B:610:GLU:O	4:B:624:VAL:HB	2.09	0.52
4:B:614:LYS:HZ2	4:B:622:GLU:H	1.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:648:VAL:HA	4:B:654:VAL:HG11	1.91	0.52
4:B:819:ILE:N	4:B:820:PRO:HD3	2.24	0.52
4:B:907:THR:CA	4:B:966:ILE:HG22	2.39	0.52
4:B:1032:ARG:HB2	4:B:1078:PRO:CB	2.40	0.52
5:C:203:SER:O	5:C:204:ILE:HG12	2.09	0.52
5:D:63:HIS:HD2	5:D:65:PHE:N	2.06	0.52
5:D:157:GLU:O	5:D:158:ALA:C	2.47	0.52
6:E:282:ARG:O	6:E:283:ASN:C	2.45	0.52
6:E:374:GLY:HA3	6:E:455:GLN:CG	2.39	0.52
9:X:98:VAL:HG12	9:X:99:GLU:N	2.25	0.52
1:1:78:DA:H1'	1:1:79:DA:O4'	2.10	0.52
1:1:101:DT:OP1	1:1:101:DT:O4'	2.26	0.52
1:1:114:DC:C2'	1:1:115:DA:H5'	2.39	0.52
1:1:119:DA:C4	2:2:6:DA:N6	2.78	0.52
2:2:46:DT:O2	2:2:46:DT:H2'	2.09	0.52
3:A:196:GLN:OE1	3:A:229:PHE:HD2	1.87	0.52
3:A:327:SER:O	3:A:328:VAL:C	2.45	0.52
3:A:426:HIS:O	3:A:427:TYR:C	2.45	0.52
3:A:503:ILE:HG22	3:A:504:ILE:N	2.23	0.52
3:A:576:THR:C	3:A:578:LEU:N	2.61	0.52
3:A:599:VAL:H	3:A:608:VAL:CG1	2.22	0.52
3:A:608:VAL:H	3:A:609:ARG:HG2	1.72	0.52
3:A:720:GLU:HG2	3:A:722:TYR:OH	2.10	0.52
3:A:900:GLU:O	3:A:901:CYS:O	2.27	0.52
3:A:1052:LEU:O	3:A:1053:ASN:C	2.45	0.52
4:B:109:VAL:HG13	4:B:110:VAL:N	2.25	0.52
4:B:466:ARG:CZ	4:B:977:GLY:HA3	2.39	0.52
4:B:488:TYR:CE1	4:B:878:SER:HA	2.44	0.52
4:B:539:ILE:HG22	4:B:865:ILE:CB	2.40	0.52
4:B:1083:LEU:H	4:B:1083:LEU:CD1	2.22	0.52
5:C:46:SER:OG	5:C:47:ASN:OD1	2.27	0.52
5:C:72:ARG:HB3	5:C:73:GLU:OE1	2.09	0.52
5:D:46:SER:OG	5:D:47:ASN:OD1	2.27	0.52
5:D:201:ASN:CG	5:D:203:SER:H	2.10	0.52
5:D:203:SER:O	5:D:204:ILE:HG12	2.09	0.52
6:E:422:VAL:O	6:E:422:VAL:HG22	2.08	0.52
6:E:480:SER:O	6:E:481:LEU:C	2.42	0.52
6:E:502:THR:O	6:E:503:GLY:C	2.44	0.52
6:E:578:THR:HA	6:E:583:SER:O	2.08	0.52
8:G:81:SER:HB2	8:G:181:GLN:NE2	2.23	0.52
8:G:81:SER:CB	8:G:181:GLN:HE22	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:239:ILE:HG12	8:G:276:ILE:HG23	1.91	0.52
8:G:290:ILE:HG22	8:G:298:LEU:HD12	1.92	0.52
9:X:37:PRO:CD	9:X:57:VAL:HG11	2.39	0.52
1:1:68:DT:H2"	1:1:69:DA:O5'	2.10	0.52
1:1:91:DT:O2	1:1:92:DT:C6	2.62	0.52
1:1:116:DC:C4	1:1:117:DG:C6	2.97	0.52
2:2:5:DC:C2	2:2:6:DA:N7	2.77	0.52
3:A:185:VAL:HG22	3:A:197:VAL:O	2.07	0.52
3:A:467:GLU:O	3:A:470:ARG:CG	2.42	0.52
3:A:598:VAL:HA	3:A:615:PRO:CB	2.36	0.52
3:A:735:GLU:O	3:A:772:LYS:HA	2.08	0.52
3:A:757:ILE:HD11	3:A:769:LEU:O	2.09	0.52
3:A:1004:GLN:O	3:A:1005:PRO:C	2.44	0.52
3:A:1088:LYS:HG3	3:A:1089:VAL:N	2.24	0.52
4:B:23:HIS:C	4:B:24:TYR:CD1	2.83	0.52
4:B:66:LEU:CD1	4:B:143:MET:HE1	2.35	0.52
4:B:139:GLN:OE1	4:B:139:GLN:N	2.40	0.52
4:B:146:LEU:HD23	4:B:156:ASP:O	2.09	0.52
4:B:177:TYR:O	4:B:178:GLY:C	2.45	0.52
4:B:196:LEU:C	4:B:198:ARG:N	2.56	0.52
4:B:418:VAL:O	4:B:419:LYS:HG2	2.10	0.52
4:B:575:ARG:HD2	4:B:590:GLU:HB2	1.90	0.52
4:B:591:LEU:HG	4:B:592:ILE:N	2.20	0.52
4:B:787:GLY:O	4:B:788:VAL:C	2.48	0.52
4:B:794:GLN:O	4:B:795:LEU:HD12	2.10	0.52
4:B:938:GLY:HA3	4:B:969:GLY:H	1.75	0.52
5:C:42:ARG:O	5:C:43:VAL:C	2.44	0.52
5:C:201:ASN:HD21	5:C:203:SER:H	1.55	0.52
6:E:226:LYS:C	6:E:228:LEU:N	2.56	0.52
6:E:255:ASP:CG	6:E:256:LEU:N	2.57	0.52
6:E:555:TYR:O	6:E:556:VAL:CG2	2.58	0.52
9:X:120:MET:SD	9:Y:112:LEU:HD21	2.50	0.52
9:X:131:LEU:HD11	9:X:135:MET:CE	2.18	0.52
1:1:88:DA:C6	2:2:37:DT:C4	2.98	0.52
2:2:39:DT:C2	2:2:40:DC:C6	2.97	0.52
2:2:54:DA:H4'	2:2:55:DA:OP1	2.09	0.52
3:A:81:VAL:O	3:A:82:GLU:C	2.46	0.52
3:A:100:ARG:HG2	3:A:101:LEU:HG	1.91	0.52
3:A:374:ILE:O	3:A:375:LYS:C	2.47	0.52
3:A:417:PHE:CD2	3:A:418:ALA:N	2.77	0.52
3:A:423:HIS:C	3:A:425:SER:N	2.59	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:495:ILE:O	3:A:496:PRO:C	2.44	0.52
3:A:693:TRP:HD1	3:A:696:TYR:O	1.92	0.52
3:A:868:ILE:O	3:A:868:ILE:CG1	2.58	0.52
3:A:956:LYS:C	3:A:957:ILE:HD12	2.30	0.52
4:B:113:PHE:HD1	4:B:117:ASN:ND2	2.07	0.52
4:B:388:GLU:HB2	4:B:397:PRO:HG2	1.92	0.52
4:B:453:VAL:HG22	4:B:988:VAL:CG2	2.27	0.52
4:B:496:LEU:HD12	4:B:498:VAL:HG23	1.92	0.52
4:B:626:GLY:C	4:B:746:VAL:H	2.10	0.52
4:B:901:ARG:O	4:B:904:ASP:N	2.43	0.52
4:B:1088:SER:HG	4:B:1093:ILE:CG2	2.18	0.52
5:C:97:GLY:C	5:C:98:ARG:HH11	2.13	0.52
5:D:160:SER:O	5:D:161:LEU:CG	2.55	0.52
6:E:216:ALA:C	6:E:219:GLN:HG2	2.30	0.52
6:E:254:PRO:HA	6:E:257:ARG:CZ	2.40	0.52
6:E:304:ARG:O	6:E:305:MET:C	2.45	0.52
6:E:329:ARG:HH11	8:G:289:PRO:HG3	1.73	0.52
8:G:83:ARG:O	8:G:86:LEU:N	2.43	0.52
8:G:127:ASP:HB2	8:G:129:ARG:CD	2.36	0.52
8:G:194:ALA:HB2	8:G:213:TRP:CD1	2.44	0.52
8:G:266:MET:O	8:G:266:MET:HG3	2.09	0.52
8:G:340:ARG:HB2	8:G:354:ILE:CD1	2.34	0.52
9:X:150:VAL:HA	9:X:153:LEU:CB	2.39	0.52
1:1:79:DA:C4	1:1:80:DA:N3	2.77	0.52
2:2:4:DG:C2	2:2:5:DC:C2	2.97	0.52
2:2:42:DT:C4	2:2:43:DG:N1	2.77	0.52
3:A:72:TYR:O	3:A:74:LEU:HG	2.09	0.52
3:A:258:ASP:HA	3:A:262:PHE:HD1	1.73	0.52
3:A:492:PRO:O	3:A:492:PRO:HG2	2.09	0.52
3:A:630:GLN:C	3:A:633:GLN:HE21	2.09	0.52
3:A:671:ASP:OD1	3:A:671:ASP:N	2.33	0.52
3:A:723:GLU:HB3	3:A:837:ARG:CD	2.39	0.52
3:A:768:ILE:HD13	3:A:805:ARG:HG3	1.90	0.52
3:A:968:PHE:CD1	3:A:970:ARG:N	2.72	0.52
4:B:4:ARG:HG2	6:E:565:GLU:HG2	1.92	0.52
4:B:295:CYS:HB2	4:B:298:CYS:H	1.73	0.52
4:B:356:THR:HB	4:B:357:ILE:HD12	1.90	0.52
4:B:370:THR:HG1	4:B:371:ARG:H	1.57	0.52
4:B:377:LEU:HD12	4:B:378:PHE:CD2	2.45	0.52
4:B:546:LEU:HB2	4:B:830:LEU:HB2	1.91	0.52
4:B:656:ALA:C	4:B:668:ASN:CG	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:916:VAL:HB	4:B:943:VAL:HB	1.92	0.52
5:C:85:VAL:HA	5:C:125:GLN:CD	2.30	0.52
5:C:186:ASP:HA	5:C:190:PRO:HA	1.92	0.52
5:D:19:HIS:NE2	5:D:202:GLY:HA2	2.24	0.52
5:D:207:GLN:O	5:D:208:GLU:C	2.42	0.52
6:E:515:LEU:O	6:E:516:GLY:C	2.45	0.52
6:E:533:LYS:C	6:E:556:VAL:CG1	2.74	0.52
8:G:371:LYS:HG2	8:G:375:LYS:CD	2.39	0.52
9:X:35:PHE:CZ	9:X:92:ALA:HB2	2.45	0.52
9:Y:67:ALA:O	9:Y:68:LEU:HD23	2.10	0.52
1:1:58:DA:C1'	1:1:59:DT:C5	2.91	0.52
1:1:75:DA:H2'	1:1:75:DA:OP2	2.10	0.52
1:1:80:DA:C1'	1:1:81:DT:H5'	2.40	0.52
1:1:89:DA:C6	2:2:37:DT:C2	2.74	0.52
2:2:52:DA:C6	2:2:53:DT:C4	2.98	0.52
3:A:261:PHE:CD1	3:A:261:PHE:N	2.74	0.52
3:A:295:GLY:O	3:A:298:LEU:HG	2.10	0.52
3:A:592:SER:OG	3:A:592:SER:O	2.25	0.52
3:A:938:GLU:O	3:A:941:ASP:OD1	2.27	0.52
3:A:1078:GLN:C	3:A:1080:LEU:N	2.55	0.52
4:B:69:ALA:CB	4:B:101:THR:HG21	2.39	0.52
4:B:87:GLU:N	4:B:89:GLU:OE1	2.43	0.52
4:B:134:ILE:O	4:B:138:ARG:N	2.31	0.52
4:B:164:ARG:O	4:B:165:GLU:C	2.47	0.52
4:B:440:LYS:HE2	4:B:998:VAL:HG22	1.92	0.52
4:B:616:LYS:C	4:B:618:LYS:H	2.13	0.52
4:B:641:LYS:O	4:B:680:ILE:HB	2.10	0.52
4:B:907:THR:CG2	4:B:965:THR:HA	2.20	0.52
4:B:1090:PRO:CA	4:B:1093:ILE:CG1	2.81	0.52
5:C:106:THR:O	5:C:107:ILE:HD13	2.09	0.52
5:D:28:LEU:HD11	5:D:194:LEU:HD12	1.91	0.52
5:D:82:MET:O	5:D:85:VAL:N	2.39	0.52
5:D:104:PRO:CA	5:D:131:ALA:HA	2.32	0.52
5:D:217:LEU:O	5:D:220:LEU:N	2.42	0.52
6:E:32:ASN:O	6:E:32:ASN:OD1	2.28	0.52
6:E:414:SER:C	6:E:418:VAL:HG12	2.30	0.52
6:E:461:CYS:O	6:E:465:ASN:N	2.41	0.52
6:E:573:PRO:O	6:E:574:VAL:HG23	2.09	0.52
6:E:582:GLY:HA3	6:E:598:GLN:CB	2.38	0.52
8:G:200:HIS:CG	8:G:200:HIS:O	2.63	0.52
8:G:287:GLU:O	8:G:288:THR:C	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:338:ARG:HD2	8:G:343:LEU:HB3	1.91	0.52
9:X:26:GLU:O	9:X:100:LEU:N	2.42	0.52
9:X:88:ARG:NH2	9:X:129:ARG:HH22	2.08	0.52
1:1:74:DT:H2"	1:1:75:DA:OP2	2.09	0.52
1:1:75:DA:C5	2:2:52:DA:C2	2.97	0.52
1:1:78:DA:C6	2:2:48:DT:N3	2.78	0.52
1:1:119:DA:H1'	1:1:120:DT:C4	2.45	0.52
3:A:65:LEU:HD11	3:A:364:LEU:HD11	1.91	0.52
3:A:110:LYS:O	3:A:361:PRO:HG3	2.09	0.52
3:A:184:TRP:CD1	3:A:184:TRP:N	2.76	0.52
3:A:198:LEU:CD2	3:A:298:LEU:CB	2.87	0.52
3:A:420:ARG:C	3:A:421:ASP:OD1	2.48	0.52
3:A:455:GLN:NE2	3:A:456:TYR:CE1	2.78	0.52
3:A:1017:PHE:HE2	3:A:1022:VAL:HA	1.74	0.52
3:A:1040:VAL:HG23	3:A:1041:LYS:N	2.21	0.52
4:B:101:THR:CA	4:B:420:LYS:O	2.58	0.52
4:B:372:HIS:CE1	4:B:418:VAL:HG21	2.45	0.52
4:B:443:LYS:HB2	4:B:997:LEU:N	2.25	0.52
4:B:449:LEU:C	4:B:990:ARG:HD3	2.30	0.52
4:B:452:GLU:O	4:B:452:GLU:HG3	2.09	0.52
4:B:511:ALA:HB3	4:B:876:ILE:HG21	1.91	0.52
4:B:710:PRO:HD3	4:B:722:LEU:HA	1.91	0.52
4:B:908:LEU:HD23	4:B:966:ILE:HG21	1.91	0.52
4:B:981:GLN:CB	4:B:982:ILE:HD12	2.37	0.52
4:B:1221:THR:O	4:B:1222:GLU:C	2.42	0.52
5:C:54:THR:C	5:C:166:ILE:HG22	2.30	0.52
6:E:482:GLU:CD	6:E:482:GLU:C	2.68	0.52
7:F:36:ALA:C	7:F:38:ARG:N	2.58	0.52
7:F:41:ARG:O	7:F:45:GLU:N	2.42	0.52
8:G:88:GLU:O	8:G:89:ILE:C	2.44	0.52
8:G:285:SER:OG	8:G:288:THR:N	2.26	0.52
9:Y:170:ILE:CG2	9:Y:171:ASP:H	2.19	0.52
2:2:35:DA:C6	2:2:36:DT:C4	2.98	0.52
3:A:40:TRP:CE3	3:A:41:PHE:N	2.78	0.52
3:A:259:SER:O	3:A:261:PHE:N	2.43	0.52
3:A:360:THR:C	3:A:362:ALA:H	2.12	0.52
3:A:374:ILE:O	3:A:377:PHE:N	2.43	0.52
3:A:517:SER:O	3:A:519:THR:HG23	2.10	0.52
3:A:551:ASN:O	3:A:554:LEU:CA	2.58	0.52
3:A:693:TRP:CD1	3:A:696:TYR:O	2.63	0.52
3:A:1044:ASP:O	3:A:1047:GLY:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:302:SER:HB2	4:B:309:VAL:CG1	2.40	0.52
4:B:352:LYS:O	4:B:353:MET:CG	2.53	0.52
4:B:439:GLU:OE1	4:B:439:GLU:N	2.39	0.52
4:B:621:TYR:HB2	4:B:772:GLN:O	2.09	0.52
4:B:634:GLU:HB3	4:B:781:ARG:NH2	2.24	0.52
4:B:653:TYR:HA	4:B:671:VAL:HG23	1.92	0.52
4:B:856:SER:OG	4:B:873:ARG:CZ	2.58	0.52
5:C:59:ALA:HA	5:C:162:ASP:OD2	2.09	0.52
5:C:73:GLU:OE1	5:C:73:GLU:N	2.43	0.52
5:D:72:ARG:HE	6:E:602:ILE:HD13	1.74	0.52
5:D:159:THR:CB	5:D:163:PHE:HB3	2.40	0.52
6:E:63:PHE:CD1	6:E:63:PHE:N	2.70	0.52
6:E:239:SER:HA	6:E:243:TRP:CZ3	2.45	0.52
6:E:254:PRO:O	6:E:255:ASP:C	2.44	0.52
8:G:217:ALA:O	8:G:218:ILE:C	2.44	0.52
9:X:173:LYS:HE3	9:X:208:LYS:HB2	1.91	0.52
9:X:176:HIS:HB3	9:X:190:VAL:CG2	2.24	0.52
1:1:98:DG:C8	1:1:99:DT:H73	2.44	0.52
2:2:50:DG:N1	2:2:51:DT:C4	2.78	0.52
3:A:257:LEU:CG	3:A:258:ASP:N	2.73	0.52
3:A:293:THR:OG1	3:A:296:ASP:OD1	2.28	0.52
3:A:497:VAL:HG23	3:A:501:GLY:O	2.10	0.52
3:A:499:GLU:CD	3:A:499:GLU:C	2.68	0.52
3:A:512:TYR:C	3:A:515:GLU:H	2.12	0.52
3:A:644:ARG:NH1	3:A:721:LYS:HB2	2.25	0.52
3:A:810:GLU:C	3:A:811:LYS:HG2	2.29	0.52
4:B:32:MET:O	4:B:34:ASP:N	2.43	0.52
4:B:33:ALA:O	4:B:34:ASP:C	2.43	0.52
4:B:79:ARG:HD3	4:B:84:GLU:CB	2.39	0.52
4:B:236:SER:O	4:B:239:LEU:N	2.35	0.52
4:B:525:LEU:HD13	4:B:857:LEU:HD13	1.92	0.52
4:B:610:GLU:HB2	4:B:625:GLN:HE21	1.75	0.52
4:B:618:LYS:HA	4:B:621:TYR:OH	2.10	0.52
5:D:184:ARG:NH2	5:D:187:GLY:H	2.07	0.52
6:E:57:LEU:HB3	6:E:273:ASN:OD1	2.10	0.52
6:E:117:TYR:CD2	6:E:244:MET:HG2	2.45	0.52
6:E:345:PHE:O	6:E:349:LEU:HB3	2.09	0.52
7:F:39:ALA:HA	7:F:42:ARG:HG2	1.92	0.52
8:G:100:GLU:HA	8:G:103:LEU:CD1	2.31	0.52
8:G:119:ARG:O	8:G:122:GLU:HG3	2.10	0.52
8:G:170:ALA:HB1	8:G:183:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:249:LEU:HG	8:G:262:ILE:HD13	1.92	0.52
8:G:379:PRO:HD3	9:X:37:PRO:HB2	1.92	0.52
9:X:162:VAL:HG21	9:X:171:ASP:HB2	1.92	0.52
9:Y:56:ARG:HA	9:Y:90:TYR:CG	2.44	0.52
9:Y:78:LEU:HD21	9:Y:88:ARG:NH1	2.24	0.52
1:1:65:DA:C2'	1:1:66:DG:H5"	2.41	0.51
1:1:119:DA:C8	2:2:6:DA:N6	2.78	0.51
1:1:120:DT:H1'	1:1:121:DG:H5'	1.90	0.51
2:2:4:DG:N3	2:2:5:DC:C2	2.78	0.51
3:A:44:GLU:O	3:A:47:ILE:HG12	2.11	0.51
3:A:196:GLN:HG2	3:A:199:LEU:HD13	1.92	0.51
3:A:429:ARG:O	3:A:430:ILE:HD13	2.09	0.51
3:A:454:ASN:O	3:A:455:GLN:C	2.48	0.51
3:A:512:TYR:CE2	3:A:513:ARG:NE	2.77	0.51
3:A:603:ALA:HA	3:A:655:PRO:CG	2.41	0.51
3:A:618:SER:C	3:A:620:LYS:N	2.63	0.51
3:A:942:GLU:CD	3:A:942:GLU:N	2.54	0.51
4:B:16:LEU:HD23	4:B:17:ILE:HA	1.92	0.51
4:B:195:TYR:CE1	4:B:199:ARG:NH1	2.78	0.51
4:B:245:GLY:O	4:B:260:ARG:CZ	2.58	0.51
4:B:286:LEU:N	4:B:1142:GLU:OE2	2.40	0.51
4:B:520:GLY:N	4:B:806:GLU:HA	2.25	0.51
4:B:1012:PRO:O	4:B:1015:GLU:HB3	2.10	0.51
4:B:1081:GLN:HG2	4:B:1082:PRO:HD2	1.92	0.51
5:C:23:PHE:HB2	5:C:196:LEU:HB3	1.91	0.51
5:C:75:VAL:O	5:C:76:LEU:C	2.46	0.51
5:C:75:VAL:O	5:C:78:ILE:HB	2.09	0.51
5:C:207:GLN:O	5:C:210:LEU:N	2.43	0.51
6:E:228:LEU:N	6:E:228:LEU:CD2	2.72	0.51
6:E:400:ASN:CG	6:E:403:ALA:H	2.04	0.51
6:E:426:HIS:NE2	6:E:484:GLN:OE1	2.43	0.51
6:E:512:ASP:O	6:E:513:MET:C	2.48	0.51
7:F:38:ARG:HD3	7:F:65:MET:SD	2.50	0.51
7:F:63:ILE:O	7:F:67:ASP:OD1	2.29	0.51
8:G:130:ASP:OD1	8:G:133:TRP:C	2.47	0.51
8:G:329:LEU:C	8:G:334:ARG:HE	2.13	0.51
9:Y:49:LYS:CB	9:Y:99:GLU:HB3	2.40	0.51
9:Y:98:VAL:HG12	9:Y:99:GLU:N	2.25	0.51
1:1:94:DT:C2	1:1:95:DT:C6	2.98	0.51
1:1:102:DA:C6	1:1:103:DA:N6	2.79	0.51
2:2:44:DA:H2"	2:2:45:DA:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:59:DG:H2'	2:2:60:DC:O4'	2.10	0.51
3:A:30:LEU:HD12	3:A:30:LEU:O	2.09	0.51
3:A:384:SER:OG	3:A:384:SER:O	2.22	0.51
3:A:388:ASP:O	3:A:388:ASP:CG	2.44	0.51
3:A:494:ASP:C	3:A:495:ILE:HD12	2.30	0.51
3:A:599:VAL:H	3:A:608:VAL:CB	2.23	0.51
3:A:961:ASP:CG	3:A:961:ASP:O	2.44	0.51
3:A:993:ARG:HH11	6:E:355:ASP:CB	2.23	0.51
4:B:69:ALA:HA	4:B:419:LYS:HB3	1.92	0.51
4:B:83:GLY:O	4:B:973:ARG:HG3	2.10	0.51
4:B:93:LYS:NZ	4:B:375:ASP:HA	2.20	0.51
4:B:362:LYS:O	4:B:392:GLU:HB3	2.10	0.51
4:B:369:ARG:NH1	4:B:1000:GLU:HG2	2.26	0.51
4:B:606:PHE:HA	4:B:630:LEU:H	1.76	0.51
4:B:721:GLU:OE1	4:B:741:VAL:HB	2.10	0.51
4:B:852:SER:OG	4:B:876:ILE:HA	2.11	0.51
4:B:854:GLN:C	4:B:855:THR:HG23	2.29	0.51
4:B:882:GLY:H	4:B:899:VAL:HG22	1.75	0.51
4:B:922:ILE:CG2	4:B:936:GLU:HG3	2.41	0.51
4:B:922:ILE:CD1	4:B:966:ILE:HD11	2.39	0.51
5:C:183:VAL:O	5:C:183:VAL:HG12	2.10	0.51
5:D:42:ARG:O	5:D:43:VAL:C	2.44	0.51
5:D:100:LEU:HD21	5:D:137:GLU:HA	1.86	0.51
6:E:206:ALA:HA	6:E:210:ARG:HG3	1.92	0.51
6:E:263:ASP:C	6:E:265:GLY:H	2.12	0.51
6:E:321:ARG:O	6:E:322:THR:C	2.44	0.51
6:E:325:GLY:N	6:E:331:LEU:HD11	2.22	0.51
6:E:362:ILE:HG12	6:E:432:ARG:NH2	2.15	0.51
6:E:398:VAL:HG21	6:E:404:ALA:HA	1.92	0.51
6:E:519:TYR:CD2	6:E:519:TYR:C	2.83	0.51
6:E:530:GLY:HA2	6:E:533:LYS:CE	2.39	0.51
6:E:570:ASP:OD2	6:E:588:TYR:HB3	2.09	0.51
8:G:255:ARG:O	8:G:256:LYS:C	2.47	0.51
9:X:171:ASP:HB3	9:X:209:LYS:HD2	1.91	0.51
2:2:55:DA:H2"	2:2:56:DG:OP1	2.10	0.51
3:A:32:GLU:CD	3:A:33:ILE:N	2.64	0.51
3:A:68:LEU:HD23	3:A:99:THR:O	2.11	0.51
3:A:97:VAL:O	3:A:114:VAL:N	2.43	0.51
3:A:297:ILE:O	3:A:298:LEU:C	2.44	0.51
3:A:655:PRO:HG2	5:C:72:ARG:HD2	1.93	0.51
3:A:1054:ALA:HA	3:A:1059:LYS:HZ1	1.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:15:ASN:OD1	4:B:15:ASN:N	2.33	0.51
4:B:68:ALA:C	4:B:419:LYS:HG3	2.31	0.51
4:B:83:GLY:HA3	4:B:971:PRO:O	2.10	0.51
4:B:121:SER:O	4:B:123:TYR:N	2.44	0.51
4:B:250:HIS:CG	4:B:254:LYS:HG2	2.46	0.51
4:B:453:VAL:HA	4:B:483:LEU:H	1.75	0.51
4:B:515:LEU:HG	4:B:872:ALA:HB3	1.91	0.51
4:B:655:GLU:HG3	4:B:657:GLY:N	2.25	0.51
4:B:711:GLY:HA2	4:B:718:VAL:CG2	2.40	0.51
4:B:789:GLU:OE1	4:B:792:ARG:HB2	2.10	0.51
4:B:970:ARG:CB	4:B:972:TYR:CE1	2.92	0.51
4:B:1124:GLU:HA	4:B:1127:MET:CE	2.41	0.51
4:B:1231:TRP:CD1	6:E:11:TYR:HD2	2.27	0.51
5:C:183:VAL:HG23	5:C:192:ASP:H	1.74	0.51
5:D:207:GLN:O	5:D:210:LEU:N	2.43	0.51
6:E:142:PHE:HA	6:E:188:ILE:O	2.10	0.51
6:E:481:LEU:O	6:E:482:GLU:C	2.44	0.51
6:E:541:VAL:O	6:E:542:ILE:C	2.42	0.51
8:G:112:GLU:O	8:G:113:LEU:C	2.47	0.51
8:G:130:ASP:H	8:G:134:ALA:HA	1.76	0.51
8:G:233:VAL:HA	8:G:236:TYR:CD1	2.45	0.51
8:G:267:GLU:O	8:G:268:MET:HG2	2.10	0.51
8:G:378:HIS:CE1	9:X:58:TYR:H	2.29	0.51
9:X:85:LYS:O	9:X:85:LYS:HG2	2.10	0.51
9:Y:80:LEU:HD12	9:Y:80:LEU:C	2.30	0.51
1:1:59:DT:C6	1:1:60:DT:C4	2.98	0.51
1:1:74:DT:H2"	1:1:75:DA:H5'	1.93	0.51
1:1:79:DA:C4	1:1:80:DA:C4	2.98	0.51
1:1:81:DT:C2	2:2:46:DT:H71	2.46	0.51
1:1:100:DA:H8	1:1:100:DA:P	2.34	0.51
1:1:108:DA:C4	1:1:109:DG:C6	2.99	0.51
1:1:110:DC:O3'	1:1:111:DT:O4'	2.29	0.51
2:2:32:DA:N1	2:2:33:DA:C2	2.78	0.51
2:2:34:DA:H2'	2:2:34:DA:N3	2.23	0.51
2:2:66:DA:P	2:2:66:DA:H2'	2.50	0.51
3:A:40:TRP:O	3:A:41:PHE:C	2.49	0.51
3:A:41:PHE:CE1	3:A:332:LEU:HD23	2.45	0.51
3:A:93:VAL:HB	3:A:121:LEU:HD22	1.92	0.51
3:A:183:VAL:C	3:A:184:TRP:CG	2.82	0.51
3:A:597:ASP:H	3:A:615:PRO:CA	2.23	0.51
3:A:609:ARG:C	3:A:633:GLN:O	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:613:GLN:O	3:A:617:ALA:N	2.43	0.51
3:A:644:ARG:HG3	3:A:648:ASP:HA	1.91	0.51
3:A:668:VAL:O	3:A:668:VAL:HG13	2.10	0.51
3:A:934:GLY:O	3:A:937:GLN:HB3	2.10	0.51
4:B:195:TYR:CD1	4:B:199:ARG:NH1	2.78	0.51
4:B:247:ASP:HA	4:B:258:ALA:O	2.10	0.51
4:B:394:SER:HB3	4:B:403:HIS:NE2	2.26	0.51
4:B:480:ILE:HA	4:B:481:TRP:CE3	2.46	0.51
4:B:529:THR:O	4:B:531:GLY:N	2.34	0.51
4:B:697:PRO:HB2	4:B:701:ILE:HD12	1.90	0.51
4:B:773:ARG:HB3	4:B:792:ARG:N	2.25	0.51
4:B:1088:SER:O	4:B:1092:GLU:HB2	2.10	0.51
4:B:1090:PRO:C	4:B:1093:ILE:HG12	2.31	0.51
5:C:19:HIS:HE2	5:C:202:GLY:HA2	1.75	0.51
5:C:118:VAL:C	5:C:119:GLU:OE1	2.48	0.51
5:D:73:GLU:OE1	5:D:73:GLU:N	2.43	0.51
5:D:85:VAL:HA	5:D:125:GLN:CD	2.30	0.51
5:D:124:THR:O	5:D:124:THR:HG22	2.10	0.51
6:E:378:GLU:HG2	6:E:379:MET:H	1.75	0.51
6:E:404:ALA:O	6:E:407:LEU:N	2.44	0.51
6:E:405:LYS:HA	6:E:408:ILE:HD12	1.92	0.51
6:E:499:SER:O	6:E:501:ALA:N	2.44	0.51
6:E:510:SER:HG	6:E:511:GLN:N	2.04	0.51
7:F:59:LEU:O	7:F:60:ARG:O	2.29	0.51
8:G:203:GLY:O	8:G:204:TYR:C	2.49	0.51
8:G:270:ILE:HA	8:G:273:LEU:HB2	1.92	0.51
8:G:336:VAL:HG23	8:G:354:ILE:HG12	1.92	0.51
9:Y:45:TYR:HE2	9:Y:78:LEU:CD1	2.24	0.51
2:2:50:DG:C5	2:2:51:DT:C5	2.98	0.51
2:2:57:DT:O3'	2:2:58:DA:C8	2.63	0.51
3:A:31:ILE:C	3:A:33:ILE:H	2.14	0.51
3:A:57:THR:O	3:A:348:ARG:CZ	2.59	0.51
3:A:83:GLU:O	3:A:84:ALA:C	2.43	0.51
3:A:140:GLN:O	3:A:325:VAL:HG23	2.11	0.51
3:A:214:ARG:C	3:A:215:HIS:CD2	2.84	0.51
3:A:685:ASN:HA	3:A:977:ALA:O	2.10	0.51
3:A:801:ASP:O	3:A:803:SER:N	2.38	0.51
3:A:984:HIS:ND1	3:A:988:ASP:OD2	2.32	0.51
4:B:19:TRP:NE1	4:B:23:HIS:CE1	2.78	0.51
4:B:91:PHE:HA	4:B:94:VAL:HG12	1.93	0.51
4:B:101:THR:OG1	4:B:102:SER:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:154:ILE:HD12	4:B:154:ILE:H	1.75	0.51
4:B:283:ARG:HD2	4:B:298:CYS:N	2.25	0.51
4:B:497:VAL:HG23	4:B:498:VAL:HG13	1.92	0.51
4:B:623:VAL:HG21	4:B:791:LEU:CD1	2.40	0.51
4:B:630:LEU:HB3	4:B:743:GLU:CB	2.40	0.51
4:B:982:ILE:HG22	4:B:983:GLU:H	1.74	0.51
4:B:1126:GLN:O	4:B:1127:MET:C	2.44	0.51
4:B:1231:TRP:CD2	6:E:11:TYR:HB3	2.43	0.51
5:C:108:THR:H	5:C:111:HIS:CE1	2.29	0.51
5:C:215:GLY:N	5:D:225:LYS:HE2	2.25	0.51
5:D:23:PHE:HD2	5:D:196:LEU:HD22	1.75	0.51
6:E:232:ASP:O	6:E:235:ILE:CG1	2.59	0.51
6:E:382:GLU:O	6:E:383:LEU:C	2.44	0.51
6:E:464:PHE:O	6:E:465:ASN:HB3	2.11	0.51
8:G:163:LEU:HD12	8:G:164:ARG:CG	2.41	0.51
8:G:193:ARG:NH1	8:G:197:LYS:NZ	2.58	0.51
8:G:200:HIS:C	8:G:201:GLU:OE1	2.48	0.51
9:X:29:GLU:H	9:X:32:LYS:HD2	1.75	0.51
9:X:145:MET:N	9:X:148:ARG:HH21	2.08	0.51
1:1:75:DA:C5	1:1:76:DC:C5	2.98	0.51
1:1:76:DC:C4	2:2:51:DT:O4	2.64	0.51
1:1:111:DT:H6	1:1:111:DT:P	2.34	0.51
3:A:147:VAL:C	3:A:148:TYR:CG	2.84	0.51
3:A:222:THR:HG23	3:A:224:GLU:O	2.10	0.51
3:A:274:ARG:HA	3:A:274:ARG:NE	2.25	0.51
3:A:344:GLU:CD	3:A:344:GLU:C	2.68	0.51
3:A:381:SER:OG	3:A:383:LEU:HD12	2.11	0.51
3:A:435:THR:HG22	3:A:436:PRO:O	2.11	0.51
3:A:454:ASN:C	3:A:456:TYR:N	2.62	0.51
3:A:596:GLY:O	3:A:662:ARG:NH2	2.44	0.51
3:A:789:ARG:O	3:A:791:ILE:N	2.44	0.51
3:A:998:TYR:CE1	3:A:1048:ARG:NH1	2.79	0.51
3:A:1045:MET:O	3:A:1048:ARG:N	2.44	0.51
3:A:1068:GLU:O	3:A:1069:SER:C	2.45	0.51
4:B:360:PRO:HG3	4:B:397:PRO:HD3	1.93	0.51
4:B:440:LYS:HD2	4:B:1000:GLU:HB3	1.91	0.51
4:B:452:GLU:CA	4:B:987:LEU:HG	2.18	0.51
4:B:486:GLU:HB3	4:B:879:LYS:HE2	1.91	0.51
4:B:513:THR:O	4:B:873:ARG:HA	2.11	0.51
4:B:591:LEU:N	4:B:793:THR:O	2.41	0.51
4:B:621:TYR:CE2	4:B:774:LEU:C	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:676:GLN:NE2	4:B:680:ILE:O	2.44	0.51
4:B:1159:ASP:CA	4:B:1180:MET:HE1	2.40	0.51
4:B:1239:VAL:HG13	4:B:1240:ILE:H	1.70	0.51
5:C:181:GLU:HG3	5:C:182:GLU:N	2.26	0.51
5:D:15:GLU:O	5:D:16:SER:C	2.49	0.51
5:D:54:THR:C	5:D:166:ILE:HG22	2.30	0.51
5:D:114:LEU:CD1	5:D:115:PRO:O	2.58	0.51
6:E:63:PHE:O	6:E:102:ARG:HG3	2.10	0.51
6:E:266:ARG:NH2	8:G:282:LEU:O	2.44	0.51
6:E:412:ASP:CG	6:E:413:PRO:CD	2.74	0.51
6:E:524:ASN:OD1	6:E:525:PRO:HD2	2.11	0.51
9:Y:206:HIS:CE1	9:Y:211:THR:HG21	2.45	0.51
1:1:61:DT:O2	1:1:62:DT:C2	2.64	0.51
1:1:89:DA:N6	2:2:36:DT:N3	2.58	0.51
1:1:107:DG:N7	1:1:108:DA:N6	2.58	0.51
3:A:38:PHE:O	3:A:40:TRP:N	2.43	0.51
3:A:68:LEU:HD21	3:A:98:PRO:HB2	1.92	0.51
3:A:96:TYR:CD1	3:A:115:PHE:HB3	2.46	0.51
3:A:221:LYS:HB3	3:A:225:LYS:CB	2.41	0.51
3:A:395:GLU:O	3:A:396:LEU:O	2.28	0.51
3:A:716:SER:OG	3:A:717:ILE:N	2.29	0.51
3:A:846:ILE:HG13	3:A:847:GLN:N	2.25	0.51
3:A:886:PRO:O	3:A:887:LEU:C	2.49	0.51
3:A:1077:LEU:CB	3:A:1082:LEU:HD11	2.25	0.51
4:B:88:VAL:HG12	4:B:89:GLU:CD	2.31	0.51
4:B:473:THR:CG2	4:B:977:GLY:N	2.74	0.51
4:B:481:TRP:HD1	4:B:969:GLY:C	2.14	0.51
4:B:544:VAL:HB	4:B:832:LEU:H	1.75	0.51
4:B:562:TYR:N	4:B:562:TYR:CD1	2.76	0.51
4:B:631:TRP:HZ2	4:B:782:VAL:CG2	2.22	0.51
4:B:710:PRO:HG3	4:B:721:GLU:C	2.30	0.51
4:B:919:GLY:C	4:B:939:GLN:HG2	2.30	0.51
4:B:1078:PRO:HB2	4:B:1100:LEU:HD13	1.92	0.51
4:B:1106:VAL:HA	4:B:1109:CYS:SG	2.51	0.51
5:C:110:SER:HA	5:C:120:VAL:HG21	1.92	0.51
5:C:227:ILE:CD1	5:D:5:GLN:CA	2.87	0.51
5:D:26:GLU:CB	5:D:27:PRO:HD3	2.40	0.51
5:D:142:ILE:C	5:D:143:GLU:OE1	2.49	0.51
5:D:166:ILE:HG23	5:D:167:ASP:N	2.25	0.51
6:E:252:ILE:HG22	6:E:253:PRO:HD2	1.93	0.51
9:X:144:ASP:C	9:X:148:ARG:NE	2.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:57:VAL:H	9:Y:90:TYR:HD1	1.58	0.51
9:Y:169:THR:OG1	9:Y:170:ILE:O	2.23	0.51
1:1:86:DG:C2	1:1:87:DA:C5	2.99	0.51
1:1:121:DG:C6	1:1:122:DC:N4	2.79	0.51
2:2:34:DA:C2'	2:2:34:DA:N3	2.73	0.51
2:2:45:DA:N3	2:2:46:DT:O4'	2.44	0.51
3:A:104:LYS:HD3	4:B:557:GLN:O	2.11	0.51
3:A:141:ILE:O	3:A:141:ILE:CG2	2.58	0.51
3:A:161:TYR:OH	3:A:307:LEU:O	2.19	0.51
3:A:165:LEU:C	3:A:166:ILE:HD12	2.31	0.51
3:A:203:GLY:C	3:A:205:SER:H	2.13	0.51
3:A:590:ILE:HD11	3:A:637:TYR:HB3	1.93	0.51
3:A:617:ALA:CA	3:A:620:LYS:N	2.73	0.51
3:A:733:PRO:O	3:A:775:PRO:HD3	2.11	0.51
3:A:1053:ASN:O	3:A:1054:ALA:C	2.48	0.51
3:A:1070:PHE:O	3:A:1072:VAL:N	2.44	0.51
4:B:4:ARG:NH2	4:B:16:LEU:HD11	2.26	0.51
4:B:71:GLU:HA	4:B:74:ARG:HD2	1.92	0.51
4:B:89:GLU:HB3	4:B:370:THR:C	2.31	0.51
4:B:634:GLU:HB2	4:B:688:PRO:HD3	1.91	0.51
4:B:636:THR:H	4:B:784:SER:HB3	1.75	0.51
4:B:731:PRO:O	4:B:733:GLY:N	2.43	0.51
4:B:910:ILE:HG12	4:B:912:ALA:N	2.26	0.51
4:B:920:ASP:H	4:B:940:ILE:CG2	2.24	0.51
5:D:130:ILE:HD11	5:D:134:GLY:CA	2.40	0.51
5:D:130:ILE:HG12	5:D:131:ALA:N	2.25	0.51
5:D:200:THR:O	5:D:202:GLY:N	2.44	0.51
9:X:54:LEU:O	9:X:65:THR:HA	2.10	0.51
1:1:95:DT:O2	1:1:96:DC:C6	2.63	0.51
1:1:105:DG:H5"	1:1:105:DG:C8	2.45	0.51
2:2:38:DT:C4	2:2:39:DT:C4	2.99	0.51
2:2:50:DG:C5	2:2:51:DT:C6	2.99	0.51
2:2:65:DA:H2"	2:2:66:DA:N7	2.25	0.51
3:A:70:HIS:ND1	3:A:70:HIS:C	2.62	0.51
3:A:77:PRO:C	3:A:78:LYS:HE2	2.31	0.51
3:A:96:TYR:CD1	3:A:96:TYR:N	2.76	0.51
3:A:336:VAL:HG13	3:A:337:ARG:N	2.26	0.51
3:A:347:ILE:HG12	3:A:351:MET:HB3	1.93	0.51
4:B:73:ILE:HG13	4:B:74:ARG:N	2.26	0.51
4:B:95:ILE:HG23	4:B:96:ASP:N	2.26	0.51
4:B:168:THR:O	4:B:171:GLU:OE1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:474:ALA:HB3	4:B:477:GLY:CA	2.38	0.51
4:B:1226:GLU:C	4:B:1228:LYS:N	2.60	0.51
5:C:200:THR:O	5:C:202:GLY:N	2.44	0.51
5:D:28:LEU:HB2	5:D:192:ASP:HB3	1.91	0.51
5:D:178:TYR:CD2	5:D:178:TYR:C	2.80	0.51
5:D:182:GLU:HA	5:D:191:LYS:O	2.11	0.51
5:D:215:GLY:O	5:D:216:ILE:C	2.43	0.51
6:E:28:ARG:NE	6:E:102:ARG:NE	2.59	0.51
6:E:145:TYR:H	6:E:163:SER:H	1.58	0.51
6:E:316:ASN:O	6:E:318:ARG:N	2.44	0.51
8:G:157:LYS:O	8:G:161:SER:HB3	2.11	0.51
8:G:194:ALA:C	8:G:196:GLU:H	2.14	0.51
8:G:218:ILE:HG22	8:G:219:THR:N	2.23	0.51
8:G:318:LEU:HD12	8:G:390:ARG:O	2.01	0.51
8:G:338:ARG:CG	8:G:343:LEU:HB2	2.36	0.51
8:G:385:LEU:HD12	8:G:385:LEU:C	2.31	0.51
9:X:67:ALA:O	9:X:68:LEU:HD23	2.11	0.51
9:X:194:LEU:O	9:X:197:LEU:HB2	2.11	0.51
9:Y:43:ARG:HH12	9:Y:108:VAL:HG21	1.76	0.51
1:1:80:DA:H2"	1:1:81:DT:C6	2.46	0.51
1:1:85:DG:H1'	1:1:86:DG:P	2.51	0.51
1:1:121:DG:C2	1:1:122:DC:C2	2.99	0.51
3:A:47:ILE:O	3:A:48:GLU:C	2.48	0.51
3:A:203:GLY:O	3:A:205:SER:N	2.38	0.51
3:A:218:TYR:O	3:A:220:GLN:OE1	2.28	0.51
3:A:392:PRO:HG2	3:A:393:LEU:N	2.25	0.51
3:A:465:PRO:HD2	3:A:475:GLN:NE2	2.25	0.51
3:A:617:ALA:O	3:A:620:LYS:HB2	2.11	0.51
3:A:739:GLU:C	3:A:740:ILE:HD12	2.30	0.51
3:A:961:ASP:O	3:A:962:GLY:C	2.49	0.51
3:A:1033:THR:O	3:A:1036:GLU:N	2.44	0.51
3:A:1044:ASP:O	3:A:1045:MET:C	2.43	0.51
4:B:76:THR:HG22	4:B:90:ARG:HD3	1.92	0.51
4:B:205:GLN:O	4:B:317:ILE:HG23	2.11	0.51
4:B:236:SER:O	4:B:237:THR:C	2.47	0.51
4:B:285:PRO:C	4:B:287:THR:N	2.64	0.51
4:B:415:GLY:O	4:B:422:GLN:HB2	2.10	0.51
4:B:447:SER:OG	4:B:449:LEU:O	2.29	0.51
4:B:614:LYS:NZ	4:B:622:GLU:N	2.51	0.51
4:B:943:VAL:HG23	4:B:964:VAL:HG13	1.93	0.51
4:B:974:VAL:HG12	4:B:975:SER:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:55:ALA:HA	5:C:165:GLN:CA	2.36	0.51
5:C:161:LEU:C	5:C:163:PHE:N	2.65	0.51
5:C:176:VAL:HG23	5:C:197:GLU:O	2.11	0.51
5:D:149:ARG:HH11	5:D:150:THR:C	2.15	0.51
5:D:159:THR:HB	5:D:163:PHE:HB3	1.93	0.51
6:E:73:CYS:HB3	6:E:89:CYS:H	1.75	0.51
6:E:102:ARG:HG3	6:E:102:ARG:HH11	1.75	0.51
6:E:233:ASN:C	6:E:233:ASN:OD1	2.43	0.51
6:E:305:MET:O	6:E:308:GLU:OE1	2.29	0.51
6:E:516:GLY:O	6:E:519:TYR:N	2.44	0.51
8:G:131:SER:N	8:G:134:ALA:HB2	2.26	0.51
9:Y:35:PHE:CD2	9:Y:88:ARG:NE	2.67	0.51
1:1:58:DA:H4'	1:1:59:DT:O5'	2.11	0.50
1:1:78:DA:C6	2:2:48:DT:C4	2.98	0.50
1:1:103:DA:H2'	1:1:103:DA:O5'	2.11	0.50
1:1:113:DT:H2"	1:1:114:DC:O5'	2.10	0.50
1:1:115:DA:N3	1:1:115:DA:O4'	2.44	0.50
2:2:35:DA:C5	2:2:36:DT:O4	2.65	0.50
3:A:236:MET:O	3:A:240:ARG:N	2.42	0.50
3:A:425:SER:CB	3:A:484:GLU:CD	2.75	0.50
3:A:493:GLY:N	3:A:528:ALA:HB3	2.27	0.50
3:A:888:GLY:C	3:A:890:PRO:HD3	2.32	0.50
3:A:968:PHE:CE1	4:B:47:ALA:O	2.52	0.50
4:B:214:CYS:HA	4:B:289:GLU:O	2.11	0.50
4:B:238:ARG:HG2	4:B:238:ARG:O	2.10	0.50
4:B:268:LEU:O	4:B:272:ILE:HG23	2.11	0.50
4:B:367:THR:C	4:B:370:THR:H	2.13	0.50
4:B:495:GLU:O	4:B:512:GLU:N	2.44	0.50
4:B:562:TYR:CE1	4:B:578:PRO:HG2	2.46	0.50
4:B:575:ARG:HB3	4:B:587:VAL:HB	1.93	0.50
4:B:642:ASP:CG	4:B:643:ILE:N	2.64	0.50
4:B:1011:LEU:HB2	4:B:1012:PRO:CD	2.40	0.50
4:B:1128:VAL:HG13	4:B:1129:TYR:CD1	2.46	0.50
5:C:62:SER:O	5:C:164:LEU:HD11	2.10	0.50
5:C:142:ILE:C	5:C:143:GLU:OE1	2.49	0.50
6:E:402:LYS:HZ2	8:G:390:ARG:HH22	1.58	0.50
8:G:87:GLN:CB	8:G:91:ARG:HH22	2.24	0.50
8:G:351:LEU:HD23	8:G:352:GLU:OE1	2.10	0.50
9:X:169:THR:HB	9:X:212:VAL:H	1.76	0.50
1:1:74:DT:H2"	1:1:75:DA:C5'	2.41	0.50
1:1:84:DA:C2	2:2:42:DT:O4	2.63	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:74:LEU:CG	3:A:95:MET:HG3	2.36	0.50
3:A:169:ARG:NE	3:A:337:ARG:NH2	2.60	0.50
3:A:222:THR:HG23	3:A:225:LYS:CA	2.41	0.50
3:A:779:SER:O	3:A:780:ASP:CG	2.48	0.50
3:A:1023:TRP:CH2	4:B:198:ARG:HG2	2.46	0.50
3:A:1097:SER:O	3:A:1098:LEU:HD23	2.11	0.50
4:B:87:GLU:N	4:B:87:GLU:OE1	2.33	0.50
4:B:87:GLU:OE2	4:B:443:LYS:HB3	2.11	0.50
4:B:250:HIS:CE1	4:B:252:LYS:NZ	2.79	0.50
4:B:437:ASN:HB3	4:B:1003:LYS:HG3	1.94	0.50
4:B:449:LEU:HD21	4:B:482:ILE:HG12	1.93	0.50
4:B:454:LYS:HA	4:B:985:GLY:H	1.77	0.50
4:B:507:ASN:O	4:B:507:ASN:ND2	2.44	0.50
4:B:549:ALA:HB3	4:B:828:GLN:O	2.11	0.50
4:B:553:VAL:HG21	4:B:562:TYR:CD2	2.45	0.50
4:B:595:ARG:NH1	4:B:596:TYR:H	2.09	0.50
4:B:604:LEU:CB	4:B:631:TRP:HE3	2.24	0.50
4:B:644:SER:C	4:B:645:LEU:HD23	2.31	0.50
4:B:651:GLY:HA2	4:B:731:PRO:HD2	1.93	0.50
4:B:659:GLU:CD	4:B:661:VAL:HG13	2.31	0.50
4:B:1252:ASN:HD22	7:F:33:VAL:HG21	1.70	0.50
5:C:227:ILE:CD1	5:D:5:GLN:HB2	2.41	0.50
5:D:55:ALA:HA	5:D:165:GLN:CA	2.36	0.50
5:D:159:THR:HA	5:D:163:PHE:HD2	1.76	0.50
6:E:268:ALA:HB1	8:G:286:LEU:CD1	2.41	0.50
6:E:501:ALA:C	6:E:502:THR:OG1	2.41	0.50
6:E:514:VAL:O	6:E:515:LEU:C	2.46	0.50
8:G:135:GLU:O	8:G:135:GLU:HG2	2.10	0.50
8:G:202:LYS:O	8:G:204:TYR:N	2.42	0.50
8:G:318:LEU:N	8:G:388:TYR:CZ	2.59	0.50
9:X:47:LEU:CD2	9:X:69:LEU:C	2.80	0.50
9:X:176:HIS:ND1	9:X:190:VAL:CG2	2.57	0.50
1:1:92:DT:C2'	1:1:93:DT:H72	2.42	0.50
1:1:97:DT:H1'	1:1:98:DG:C5'	2.41	0.50
1:1:100:DA:C2	8:G:204:TYR:OH	2.63	0.50
2:2:27:DA:H2"	8:G:237:GLU:OE2	2.11	0.50
2:2:34:DA:H2'	2:2:35:DA:C1'	2.41	0.50
2:2:35:DA:C5	2:2:36:DT:C4	2.99	0.50
3:A:597:ASP:HA	3:A:661:GLU:O	2.11	0.50
3:A:608:VAL:N	3:A:609:ARG:HG2	2.25	0.50
4:B:175:SER:O	4:B:176:SER:C	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:573:ASN:N	4:B:590:GLU:H	2.08	0.50
4:B:655:GLU:HG3	4:B:657:GLY:CA	2.41	0.50
4:B:667:GLN:O	4:B:667:GLN:HG3	2.11	0.50
4:B:864:THR:O	4:B:864:THR:CG2	2.60	0.50
4:B:922:ILE:HD13	4:B:966:ILE:HD11	1.93	0.50
4:B:1016:GLU:OE1	4:B:1017:LEU:N	2.44	0.50
5:D:148:TYR:CE2	5:D:171:MET:HB2	2.47	0.50
5:D:176:VAL:HG23	5:D:197:GLU:O	2.11	0.50
6:E:260:VAL:CG1	6:E:261:GLN:N	2.70	0.50
6:E:621:GLU:HG3	6:E:622:ALA:N	2.25	0.50
8:G:83:ARG:HD3	8:G:86:LEU:HB3	1.92	0.50
8:G:263:ALA:HA	8:G:266:MET:CB	2.33	0.50
9:X:171:ASP:HB3	9:X:209:LYS:CE	2.42	0.50
9:Y:26:GLU:O	9:Y:100:LEU:N	2.42	0.50
9:Y:78:LEU:HG	9:Y:88:ARG:NH1	2.23	0.50
1:1:81:DT:C2	1:1:82:DT:C6	3.00	0.50
1:1:95:DT:H2"	1:1:96:DC:H6	1.76	0.50
3:A:62:LYS:O	3:A:105:GLU:OE1	2.29	0.50
3:A:109:ILE:HB	3:A:111:GLU:HB2	1.93	0.50
3:A:453:VAL:HA	3:A:458:PHE:O	2.12	0.50
3:A:574:VAL:O	3:A:574:VAL:CG1	2.57	0.50
3:A:579:GLU:O	3:A:581:GLN:N	2.44	0.50
3:A:846:ILE:O	3:A:847:GLN:HB3	2.11	0.50
3:A:1039:THR:O	3:A:1041:LYS:N	2.45	0.50
4:B:85:ILE:HA	4:B:371:ARG:HE	1.76	0.50
4:B:149:ASP:CG	4:B:153:GLU:HB3	2.32	0.50
4:B:187:ALA:C	4:B:188:LEU:HD23	2.31	0.50
4:B:480:ILE:HA	4:B:481:TRP:CZ3	2.47	0.50
4:B:521:GLY:N	4:B:864:THR:HA	2.27	0.50
4:B:550:THR:H	4:B:566:THR:H	1.60	0.50
4:B:643:ILE:CG2	4:B:676:GLN:HE21	2.24	0.50
4:B:967:ARG:HG2	4:B:968:ALA:N	2.27	0.50
4:B:1153:ARG:HB2	4:B:1167:LEU:HG	1.93	0.50
5:C:32:GLN:NE2	5:D:220:LEU:HD21	2.27	0.50
5:C:124:THR:HG22	5:C:124:THR:O	2.10	0.50
5:C:161:LEU:HB3	5:C:163:PHE:CE2	2.46	0.50
8:G:119:ARG:CG	8:G:120:LEU:N	2.74	0.50
8:G:213:TRP:O	8:G:214:ILE:C	2.46	0.50
8:G:292:LYS:O	8:G:292:LYS:HG2	2.12	0.50
9:X:43:ARG:HD3	9:X:105:ILE:HA	1.93	0.50
9:X:176:HIS:CB	9:X:190:VAL:CG2	2.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:185:SER:OG	9:X:186:THR:N	2.45	0.50
9:Y:126:LEU:HD23	9:Y:130:ILE:CG1	2.41	0.50
1:1:78:DA:C6	2:2:48:DT:O4	2.55	0.50
1:1:98:DG:O6	2:2:29:DA:N6	2.45	0.50
2:2:38:DT:C2	2:2:39:DT:C5	3.00	0.50
3:A:96:TYR:CA	3:A:115:PHE:HA	2.28	0.50
3:A:153:ILE:CG2	3:A:157:GLY:HA2	2.41	0.50
3:A:167:PRO:HA	3:A:269:LEU:HD12	1.93	0.50
3:A:455:GLN:NE2	3:A:456:TYR:CZ	2.79	0.50
3:A:523:GLN:C	3:A:524:VAL:HG23	2.31	0.50
3:A:610:VAL:HA	3:A:632:GLY:O	2.11	0.50
3:A:615:PRO:O	3:A:616:THR:C	2.47	0.50
3:A:735:GLU:O	3:A:773:VAL:N	2.38	0.50
3:A:941:ASP:OD1	3:A:942:GLU:N	2.45	0.50
3:A:943:THR:C	3:A:945:LYS:N	2.64	0.50
4:B:72:GLU:HA	4:B:418:VAL:O	2.11	0.50
4:B:103:GLU:O	4:B:105:LEU:N	2.45	0.50
4:B:151:GLN:OE1	4:B:152:GLY:N	2.44	0.50
4:B:247:ASP:CG	4:B:259:PRO:HA	2.32	0.50
4:B:369:ARG:HD3	4:B:999:PHE:HB2	1.94	0.50
4:B:575:ARG:N	4:B:588:VAL:O	2.43	0.50
4:B:724:TYR:HE1	4:B:727:TYR:CE1	2.29	0.50
4:B:742:VAL:HG23	4:B:744:PHE:CE1	2.47	0.50
4:B:925:GLY:HA2	4:B:933:PHE:HB3	1.93	0.50
4:B:970:ARG:HD2	4:B:970:ARG:N	2.27	0.50
4:B:1143:VAL:O	4:B:1144:ILE:C	2.47	0.50
4:B:1202:LEU:O	4:B:1204:THR:N	2.44	0.50
4:B:1222:GLU:C	4:B:1224:ALA:N	2.58	0.50
5:D:90:TYR:HA	5:D:144:ARG:NH2	2.27	0.50
6:E:427:PRO:C	6:E:428:VAL:HG23	2.31	0.50
6:E:586:VAL:HG13	6:E:586:VAL:O	2.12	0.50
9:Y:142:HIS:C	9:Y:148:ARG:HH21	2.15	0.50
9:Y:162:VAL:CG1	9:Y:171:ASP:HB2	2.42	0.50
1:1:87:DA:O3'	1:1:88:DA:H4'	1.98	0.50
1:1:114:DC:H5'	1:1:114:DC:N1	2.26	0.50
2:2:10:DG:N3	2:2:10:DG:O4'	2.44	0.50
2:2:35:DA:H2'	2:2:36:DT:H71	1.92	0.50
2:2:57:DT:C1'	2:2:58:DA:C4	2.91	0.50
3:A:96:TYR:HA	3:A:115:PHE:N	2.26	0.50
3:A:239:TYR:CD1	3:A:248:PRO:HB3	2.46	0.50
3:A:590:ILE:HD11	3:A:637:TYR:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:606:ILE:HG12	3:A:609:ARG:NH2	2.25	0.50
3:A:620:LYS:HG2	3:A:630:GLN:CB	2.42	0.50
3:A:787:LEU:O	3:A:791:ILE:HD12	2.12	0.50
3:A:1016:ARG:HG3	6:E:351:GLY:O	2.11	0.50
3:A:1071:LYS:O	3:A:1072:VAL:C	2.46	0.50
3:A:1077:LEU:C	3:A:1079:SER:H	2.15	0.50
4:B:196:LEU:O	4:B:198:ARG:N	2.45	0.50
4:B:252:LYS:O	4:B:254:LYS:O	2.29	0.50
4:B:268:LEU:HD23	4:B:268:LEU:O	2.11	0.50
4:B:283:ARG:CG	4:B:298:CYS:CA	2.86	0.50
4:B:453:VAL:HG23	4:B:988:VAL:N	2.14	0.50
4:B:511:ALA:N	4:B:876:ILE:HG12	2.27	0.50
4:B:818:LEU:CG	4:B:819:ILE:H	1.99	0.50
4:B:1012:PRO:O	4:B:1013:ARG:C	2.47	0.50
4:B:1091:HIS:HE1	4:B:1092:GLU:CG	2.20	0.50
4:B:1110:ALA:O	4:B:1113:ALA:HB3	2.12	0.50
5:C:61:VAL:HG12	5:C:63:HIS:N	2.27	0.50
5:C:72:ARG:HD2	5:C:72:ARG:O	2.12	0.50
6:E:265:GLY:HA2	8:G:278:LYS:HE3	1.88	0.50
6:E:406:LYS:HG2	6:E:407:LEU:N	2.26	0.50
7:F:56:LYS:HB2	7:F:59:LEU:HD23	1.94	0.50
8:G:139:LEU:HD23	8:G:144:PHE:CD1	2.47	0.50
8:G:179:SER:O	8:G:180:PHE:C	2.49	0.50
8:G:322:LEU:HA	8:G:325:VAL:CG1	2.40	0.50
9:X:112:LEU:HG	9:X:119:SER:HB3	1.92	0.50
9:Y:69:LEU:HD11	9:Y:73:SER:CB	2.40	0.50
1:1:84:DA:N1	2:2:42:DT:N3	2.59	0.50
1:1:118:DG:C6	1:1:119:DA:C5	3.00	0.50
2:2:54:DA:H2"	2:2:55:DA:O5'	2.12	0.50
3:A:374:ILE:CG1	3:A:375:LYS:N	2.74	0.50
3:A:527:VAL:HG22	3:A:528:ALA:O	2.10	0.50
3:A:607:ARG:HB3	3:A:611:SER:HB3	1.93	0.50
3:A:810:GLU:O	3:A:811:LYS:HD3	2.12	0.50
3:A:1002:THR:O	3:A:1003:GLN:C	2.49	0.50
4:B:89:GLU:HA	4:B:370:THR:N	2.27	0.50
4:B:250:HIS:ND1	4:B:252:LYS:HA	2.27	0.50
4:B:250:HIS:CG	4:B:254:LYS:CG	2.94	0.50
4:B:460:PRO:O	4:B:461:GLU:C	2.50	0.50
4:B:479:LEU:HB2	4:B:481:TRP:CH2	2.47	0.50
4:B:524:ARG:CG	4:B:538:GLU:OE2	2.60	0.50
4:B:602:GLY:HA2	4:B:634:GLU:CG	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:631:TRP:HZ2	4:B:782:VAL:HG22	1.74	0.50
4:B:726:GLN:OE1	4:B:737:LEU:HD23	2.10	0.50
4:B:1235:LEU:HD11	4:B:1245:ILE:HG12	1.93	0.50
5:D:101:VAL:N	5:D:136:LEU:HB2	2.20	0.50
6:E:241:PRO:O	6:E:244:MET:HB2	2.11	0.50
6:E:278:ARG:O	6:E:280:ILE:N	2.45	0.50
6:E:344:ARG:O	6:E:345:PHE:C	2.47	0.50
8:G:166:VAL:HA	8:G:169:ILE:HD12	1.94	0.50
9:Y:35:PHE:CE1	9:Y:88:ARG:O	2.65	0.50
9:Y:117:GLU:HA	9:Y:120:MET:HG2	1.94	0.50
9:Y:169:THR:HA	9:Y:212:VAL:CB	2.38	0.50
1:1:81:DT:H1'	1:1:82:DT:O4'	2.11	0.50
1:1:83:DC:C6	1:1:83:DC:H5'	2.47	0.50
2:2:36:DT:C6	2:2:37:DT:H71	2.47	0.50
3:A:66:HIS:HD2	3:A:100:ARG:HB3	1.71	0.50
3:A:293:THR:OG1	3:A:295:GLY:N	2.45	0.50
3:A:307:LEU:HA	3:A:311:ILE:N	2.23	0.50
3:A:647:GLN:HB2	3:A:649:THR:HG23	1.94	0.50
3:A:1027:ALA:HB3	6:E:438:ARG:HB3	1.94	0.50
4:B:85:ILE:CD1	4:B:372:HIS:HA	2.42	0.50
4:B:295:CYS:HB2	4:B:298:CYS:CB	2.42	0.50
4:B:437:ASN:OD1	4:B:1003:LYS:HG3	2.12	0.50
4:B:527:GLU:C	4:B:530:PRO:HD3	2.32	0.50
4:B:617:ALA:HB1	4:B:777:LYS:NZ	2.27	0.50
4:B:631:TRP:CH2	4:B:782:VAL:CG2	2.95	0.50
4:B:687:LYS:HG3	4:B:739:ARG:CD	2.41	0.50
4:B:1248:GLY:HA2	7:F:29:TYR:CE1	2.47	0.50
5:C:144:ARG:O	5:C:144:ARG:HG2	2.12	0.50
5:D:85:VAL:C	5:D:86:ILE:HG13	2.31	0.50
6:E:20:GLU:O	6:E:24:GLN:N	2.45	0.50
6:E:402:LYS:NZ	8:G:390:ARG:HH22	2.08	0.50
6:E:535:PHE:CG	6:E:541:VAL:HB	2.46	0.50
6:E:608:THR:HG23	6:E:612:ARG:HD2	1.93	0.50
8:G:131:SER:C	8:G:134:ALA:H	2.15	0.50
8:G:132:GLU:O	8:G:135:GLU:HG2	2.12	0.50
8:G:180:PHE:O	8:G:184:ILE:HG12	2.11	0.50
8:G:326:LEU:HD12	8:G:327:ASP:HA	1.94	0.50
8:G:386:LYS:HZ3	9:X:39:ASP:HB3	1.77	0.50
8:G:389:ILE:O	8:G:389:ILE:CG2	2.58	0.50
9:Y:77:VAL:HG23	9:Y:77:VAL:O	2.12	0.50
9:Y:169:THR:HB	9:Y:212:VAL:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:77:DA:N1	2:2:50:DG:C5	2.79	0.50
2:2:46:DT:H72	2:2:47:DT:C2	2.46	0.50
3:A:235:LEU:HG	3:A:236:MET:HG2	1.94	0.50
3:A:272:VAL:HG23	3:A:273:GLY:H	1.76	0.50
3:A:423:HIS:O	3:A:426:HIS:N	2.42	0.50
3:A:512:TYR:CE2	3:A:513:ARG:CZ	2.95	0.50
3:A:617:ALA:C	3:A:620:LYS:N	2.58	0.50
3:A:676:GLU:O	3:A:678:GLY:N	2.44	0.50
3:A:912:VAL:CG1	3:A:914:PHE:CZ	2.95	0.50
4:B:82:ARG:O	4:B:84:GLU:N	2.45	0.50
4:B:93:LYS:HE2	4:B:375:ASP:CA	2.34	0.50
4:B:149:ASP:N	4:B:153:GLU:O	2.44	0.50
4:B:169:VAL:O	4:B:172:TYR:CB	2.59	0.50
4:B:438:THR:O	4:B:1000:GLU:HB2	2.12	0.50
4:B:442:VAL:HA	4:B:997:LEU:O	2.12	0.50
4:B:561:ASN:N	4:B:561:ASN:OD1	2.44	0.50
4:B:762:THR:O	4:B:762:THR:HG22	2.12	0.50
4:B:777:LYS:HD2	4:B:777:LYS:N	2.27	0.50
4:B:1113:ALA:O	4:B:1114:LEU:C	2.49	0.50
5:D:61:VAL:HG12	5:D:63:HIS:N	2.27	0.50
6:E:328:ASN:C	6:E:329:ARG:HG3	2.31	0.50
6:E:343:GLY:O	6:E:344:ARG:C	2.49	0.50
6:E:387:PHE:O	6:E:390:ASN:HB3	2.12	0.50
6:E:613:VAL:O	6:E:614:ILE:C	2.43	0.50
6:E:620:GLN:C	6:E:620:GLN:NE2	2.64	0.50
8:G:327:ASP:OD1	8:G:334:ARG:NH1	2.41	0.50
9:X:34:ILE:HG12	9:X:93:VAL:C	2.33	0.50
9:X:37:PRO:HB3	9:X:89:PHE:HA	1.93	0.50
1:1:109:DG:H4'	1:1:110:DC:C2	2.47	0.49
2:2:40:DC:H2'	2:2:40:DC:OP2	2.12	0.49
2:2:46:DT:H72	2:2:47:DT:N1	2.27	0.49
2:2:51:DT:C6	2:2:52:DA:N7	2.80	0.49
3:A:82:GLU:O	3:A:85:LYS:HB2	2.12	0.49
3:A:184:TRP:CD2	3:A:193:LEU:HD12	2.27	0.49
3:A:594:THR:HG22	3:A:595:ASP:CB	2.42	0.49
3:A:743:VAL:HG21	3:A:748:LEU:HG	1.94	0.49
3:A:770:VAL:HG12	3:A:804:LEU:HB3	1.93	0.49
4:B:91:PHE:HE1	4:B:156:ASP:HB2	1.76	0.49
4:B:197:THR:O	4:B:199:ARG:N	2.45	0.49
4:B:215:GLY:C	4:B:216:THR:HG22	2.28	0.49
4:B:439:GLU:C	4:B:1000:GLU:HA	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:510:LEU:HD22	4:B:877:LEU:O	2.11	0.49
4:B:583:GLN:OE1	4:B:813:ALA:O	2.30	0.49
4:B:586:GLN:NE2	4:B:797:LEU:C	2.60	0.49
4:B:650:ASP:C	4:B:652:GLN:N	2.64	0.49
4:B:853:THR:N	4:B:875:GLN:O	2.44	0.49
5:C:64:GLU:N	5:C:64:GLU:CD	2.64	0.49
5:C:85:VAL:C	5:C:86:ILE:HG13	2.31	0.49
5:C:99:LEU:CD1	5:C:101:VAL:HG23	2.40	0.49
5:D:94:ALA:O	5:D:96:ILE:HD12	2.12	0.49
6:E:188:ILE:CD1	6:E:300:ARG:CZ	2.85	0.49
6:E:499:SER:O	6:E:500:PRO:C	2.46	0.49
9:X:69:LEU:HD11	9:X:73:SER:CB	2.40	0.49
9:Y:77:VAL:O	9:Y:78:LEU:HD23	2.12	0.49
9:Y:161:GLY:N	9:Y:170:ILE:HD13	2.27	0.49
9:Y:162:VAL:H	9:Y:169:THR:C	2.13	0.49
1:1:99:DT:H1'	8:G:212:TRP:CZ2	2.46	0.49
2:2:57:DT:H2"	2:2:58:DA:C5	2.47	0.49
3:A:76:GLU:HB3	3:A:77:PRO:HD2	1.93	0.49
3:A:214:ARG:HG3	3:A:306:ASN:ND2	2.28	0.49
3:A:227:GLY:HA2	3:A:229:PHE:CZ	2.47	0.49
3:A:546:GLU:OE2	3:A:547:HIS:CD2	2.63	0.49
3:A:580:ALA:O	3:A:581:GLN:C	2.48	0.49
3:A:606:ILE:HG22	3:A:608:VAL:CG1	2.42	0.49
3:A:788:LEU:HG	8:G:385:LEU:HD22	1.94	0.49
3:A:886:PRO:HG3	4:B:49:VAL:O	2.12	0.49
3:A:1002:THR:C	3:A:1003:GLN:OE1	2.50	0.49
4:B:16:LEU:HD23	4:B:17:ILE:CA	2.43	0.49
4:B:70:GLU:O	4:B:73:ILE:N	2.44	0.49
4:B:77:GLU:CA	4:B:80:TYR:HB3	2.31	0.49
4:B:170:THR:O	4:B:173:ILE:HB	2.11	0.49
4:B:189:ARG:NH2	4:B:330:LEU:N	2.60	0.49
4:B:406:GLN:HG3	4:B:407:GLY:N	2.27	0.49
4:B:482:ILE:CG1	4:B:483:LEU:N	2.75	0.49
4:B:920:ASP:O	4:B:940:ILE:HG22	2.11	0.49
4:B:932:ILE:CG2	4:B:933:PHE:H	2.24	0.49
5:D:70:GLY:O	5:D:130:ILE:HG13	2.12	0.49
6:E:47:TYR:CD1	6:E:48:ARG:N	2.81	0.49
6:E:121:ILE:HB	6:E:122:PRO:HD3	1.94	0.49
6:E:320:GLY:C	6:E:321:ARG:HE	2.15	0.49
6:E:370:ILE:CG2	6:E:457:HIS:ND1	2.74	0.49
6:E:438:ARG:HG3	6:E:439:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:55:SER:CA	9:Y:65:THR:HG22	2.42	0.49
9:Y:137:ILE:CA	9:Y:140:LEU:HG	2.41	0.49
1:1:109:DG:H3'	1:1:109:DG:OP2	2.12	0.49
1:1:113:DT:H71	3:A:414:ARG:HH11	1.76	0.49
1:1:114:DC:H1'	1:1:115:DA:C5	2.47	0.49
2:2:40:DC:H1'	2:2:41:DC:H5'	1.95	0.49
3:A:70:HIS:ND1	3:A:71:ASN:OD1	2.45	0.49
3:A:161:TYR:HE2	3:A:308:GLU:HG3	1.76	0.49
3:A:280:LYS:HE2	3:A:303:TYR:HE2	1.77	0.49
3:A:297:ILE:O	3:A:300:ALA:HB3	2.12	0.49
3:A:304:LEU:HA	3:A:307:LEU:HD21	1.92	0.49
3:A:707:ARG:O	3:A:708:LEU:C	2.50	0.49
3:A:723:GLU:HA	3:A:836:VAL:O	2.12	0.49
3:A:1038:LEU:HD12	6:E:352:LYS:HZ3	1.78	0.49
4:B:250:HIS:HB2	4:B:254:LYS:HG2	1.95	0.49
4:B:384:ILE:CG2	4:B:394:SER:CB	2.88	0.49
4:B:385:MET:HG3	4:B:406:GLN:O	2.11	0.49
4:B:646:LEU:H	4:B:662:LYS:HG2	1.76	0.49
4:B:646:LEU:CG	4:B:662:LYS:N	2.76	0.49
4:B:919:GLY:HA2	4:B:939:GLN:CD	2.32	0.49
4:B:964:VAL:HG12	4:B:965:THR:N	2.26	0.49
5:D:202:GLY:O	5:D:204:ILE:N	2.46	0.49
6:E:76:TYR:CG	6:E:81:HIS:CG	3.00	0.49
6:E:138:GLN:NE2	6:E:138:GLN:HA	2.12	0.49
6:E:162:LEU:O	6:E:164:GLU:N	2.43	0.49
6:E:315:ASP:C	6:E:315:ASP:OD1	2.45	0.49
6:E:385:GLN:O	6:E:386:PRO:C	2.46	0.49
6:E:498:LEU:HB2	6:E:504:ARG:O	2.12	0.49
6:E:518:TYR:CD1	6:E:518:TYR:C	2.82	0.49
6:E:568:GLN:O	6:E:568:GLN:CD	2.51	0.49
8:G:106:LYS:HZ2	8:G:150:ILE:HG23	1.76	0.49
8:G:117:ARG:HG3	8:G:117:ARG:NH1	2.27	0.49
9:X:145:MET:CE	9:Y:143:ARG:NH2	2.75	0.49
9:Y:35:PHE:CE1	9:Y:88:ARG:CB	2.95	0.49
9:Y:212:VAL:HG12	9:Y:214:LYS:H	1.78	0.49
1:1:115:DA:C2	2:2:10:DG:C2	3.00	0.49
2:2:49:DT:C4'	2:2:50:DG:H5'	2.42	0.49
3:A:41:PHE:O	3:A:44:GLU:N	2.45	0.49
3:A:296:ASP:O	3:A:299:ALA:HB3	2.11	0.49
3:A:364:LEU:N	3:A:364:LEU:CD2	2.71	0.49
3:A:485:GLU:C	3:A:487:ASP:N	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:606:ILE:O	3:A:609:ARG:HG2	2.11	0.49
3:A:609:ARG:O	3:A:616:THR:HB	2.12	0.49
3:A:617:ALA:CA	3:A:620:LYS:H	2.25	0.49
3:A:685:ASN:OD1	3:A:685:ASN:N	2.30	0.49
3:A:798:ASP:CG	3:A:799:VAL:HG23	2.32	0.49
3:A:804:LEU:HD12	3:A:805:ARG:H	1.77	0.49
3:A:898:VAL:CG2	3:A:899:PHE:N	2.75	0.49
3:A:1077:LEU:C	3:A:1079:SER:N	2.53	0.49
4:B:72:GLU:HG3	4:B:97:THR:HG21	1.94	0.49
4:B:100:GLY:CA	4:B:424:LEU:HD11	2.37	0.49
4:B:220:ILE:N	4:B:281:VAL:HG13	2.27	0.49
4:B:326:PRO:O	4:B:327:GLY:C	2.50	0.49
4:B:326:PRO:O	4:B:329:GLN:HG2	2.12	0.49
4:B:378:PHE:CE1	4:B:413:VAL:HB	2.47	0.49
4:B:562:TYR:O	4:B:574:LEU:HD11	2.12	0.49
4:B:583:GLN:HB2	4:B:814:ALA:HA	1.93	0.49
4:B:844:ILE:O	4:B:844:ILE:CG2	2.60	0.49
4:B:885:ARG:N	4:B:898:LEU:HB2	2.23	0.49
4:B:916:VAL:HG12	4:B:917:LYS:N	2.21	0.49
5:C:72:ARG:HB3	5:C:129:THR:HB	1.94	0.49
5:C:202:GLY:O	5:C:204:ILE:N	2.46	0.49
5:D:35:THR:C	5:D:38:ASN:HB3	2.33	0.49
5:D:50:GLY:O	5:D:144:ARG:HA	2.12	0.49
5:D:118:VAL:CG1	5:D:142:ILE:CG2	2.43	0.49
6:E:246:MET:C	6:E:247:THR:OG1	2.50	0.49
6:E:249:ILE:HG22	6:E:250:PRO:O	2.12	0.49
6:E:265:GLY:C	8:G:278:LYS:HE3	2.32	0.49
8:G:383:SER:HA	8:G:386:LYS:HB2	1.93	0.49
9:X:46:PHE:CD2	9:X:74:VAL:HG12	2.47	0.49
9:X:162:VAL:H	9:X:169:THR:C	2.13	0.49
9:X:162:VAL:O	9:X:169:THR:OG1	2.31	0.49
9:X:169:THR:HA	9:X:212:VAL:CB	2.38	0.49
9:Y:216:VAL:HG12	9:Y:220:ARG:O	2.12	0.49
2:2:42:DT:N3	2:2:43:DG:C6	2.81	0.49
2:2:60:DC:H3'	2:2:60:DC:OP2	2.12	0.49
2:2:63:DC:N4	9:Y:187:ARG:HD2	2.17	0.49
3:A:57:THR:HG23	3:A:64:GLU:HA	1.94	0.49
3:A:343:LEU:O	3:A:344:GLU:C	2.48	0.49
3:A:624:ASN:HB2	3:A:627:LEU:HD22	1.94	0.49
3:A:650:CYS:HB3	3:A:717:ILE:HG21	1.94	0.49
3:A:703:LEU:O	3:A:704:ILE:CD1	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:736:ILE:HD13	3:A:772:LYS:CG	2.42	0.49
3:A:873:TYR:CZ	3:A:960:TYR:HB2	2.48	0.49
4:B:79:ARG:HD3	4:B:85:ILE:HG23	1.94	0.49
4:B:103:GLU:HG3	4:B:411:TYR:HB3	1.92	0.49
4:B:176:SER:O	4:B:178:GLY:N	2.45	0.49
4:B:404:VAL:HG12	4:B:405:THR:H	1.76	0.49
4:B:520:GLY:HA2	4:B:764:ARG:HH21	1.77	0.49
4:B:704:ASP:O	4:B:706:THR:N	2.45	0.49
4:B:858:GLU:HG3	4:B:869:SER:OG	2.13	0.49
4:B:900:LEU:CD2	4:B:904:ASP:HB3	2.42	0.49
4:B:943:VAL:HG23	4:B:964:VAL:HG22	1.93	0.49
4:B:1014:ILE:O	4:B:1016:GLU:N	2.45	0.49
5:C:97:GLY:O	5:C:139:GLU:HB2	2.13	0.49
5:D:182:GLU:OE2	5:D:183:VAL:O	2.30	0.49
8:G:117:ARG:C	8:G:129:ARG:NH2	2.66	0.49
8:G:120:LEU:HB3	8:G:128:PRO:HD3	1.93	0.49
8:G:224:ASP:O	8:G:225:GLN:HG2	2.12	0.49
9:Y:45:TYR:HB2	9:Y:75:PHE:HB2	1.93	0.49
9:Y:47:LEU:HA	9:Y:100:LEU:CD1	2.42	0.49
9:Y:209:LYS:CA	9:Y:210:ILE:HD12	2.42	0.49
1:1:100:DA:H1'	8:G:204:TYR:CE2	2.47	0.49
2:2:9:DC:C5	2:2:10:DG:O6	2.65	0.49
2:2:30:DG:C2	2:2:31:DA:C1'	2.89	0.49
3:A:887:LEU:HA	4:B:51:ILE:HG21	1.93	0.49
3:A:943:THR:HG23	3:A:945:LYS:HG2	1.94	0.49
3:A:974:ILE:HG22	3:A:975:GLY:N	2.21	0.49
4:B:2:ILE:HD12	6:E:563:ASP:O	2.12	0.49
4:B:186:THR:O	4:B:187:ALA:C	2.48	0.49
4:B:350:ARG:O	4:B:350:ARG:HG2	2.11	0.49
4:B:637:HIS:N	4:B:638:GLU:OE1	2.45	0.49
4:B:640:ASN:HA	4:B:681:LEU:O	2.13	0.49
4:B:910:ILE:O	4:B:962:TYR:HB3	2.13	0.49
4:B:1042:ASP:C	4:B:1050:LYS:HE3	2.33	0.49
4:B:1146:ARG:C	4:B:1148:MET:N	2.64	0.49
5:C:214:ALA:HB3	5:D:225:LYS:HG3	1.94	0.49
5:D:100:LEU:HD23	5:D:137:GLU:CA	2.36	0.49
5:D:148:TYR:CE1	5:D:170:PHE:O	2.65	0.49
6:E:206:ALA:O	6:E:207:GLU:CG	2.61	0.49
6:E:375:LEU:O	6:E:449:VAL:HB	2.12	0.49
6:E:411:ASN:HA	6:E:415:VAL:HG11	1.94	0.49
6:E:418:VAL:O	6:E:419:LEU:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:87:GLN:CB	8:G:91:ARG:NH2	2.75	0.49
8:G:117:ARG:HG3	8:G:117:ARG:HH11	1.78	0.49
8:G:129:ARG:N	8:G:129:ARG:HD2	2.25	0.49
8:G:173:TYR:HA	8:G:176:ARG:CG	2.42	0.49
9:X:88:ARG:HH22	9:X:129:ARG:HH12	1.60	0.49
9:X:93:VAL:HG12	9:X:95:PHE:N	2.28	0.49
1:1:72:DT:H6	1:1:72:DT:H5"	1.76	0.49
1:1:93:DT:C2	1:1:94:DT:C6	3.01	0.49
1:1:94:DT:C5'	6:E:47:TYR:HH	2.24	0.49
1:1:97:DT:O5'	1:1:97:DT:C2'	2.61	0.49
1:1:105:DG:C8	1:1:105:DG:C5'	2.95	0.49
3:A:40:TRP:CD2	3:A:41:PHE:N	2.81	0.49
3:A:51:ASN:HB3	3:A:69:GLY:HA3	1.94	0.49
3:A:149:TYR:HD1	3:A:163:ALA:HA	1.76	0.49
3:A:821:THR:O	3:A:822:ARG:C	2.51	0.49
3:A:990:ILE:C	3:A:991:HIS:CG	2.84	0.49
4:B:72:GLU:HG2	4:B:418:VAL:HG12	1.95	0.49
4:B:77:GLU:OE2	4:B:81:GLN:HB3	2.13	0.49
4:B:189:ARG:HH12	4:B:332:MET:N	2.10	0.49
4:B:226:THR:HG23	4:B:231:THR:OG1	2.13	0.49
4:B:315:VAL:HA	4:B:318:ILE:HD12	1.95	0.49
4:B:331:THR:O	4:B:331:THR:OG1	2.20	0.49
4:B:510:LEU:HB2	4:B:876:ILE:HG13	1.95	0.49
4:B:725:ILE:HG13	4:B:726:GLN:H	1.78	0.49
5:C:62:SER:HG	5:C:63:HIS:CG	2.18	0.49
5:C:201:ASN:OD1	5:C:201:ASN:N	2.43	0.49
5:D:108:THR:H	5:D:111:HIS:CD2	2.31	0.49
6:E:23:ARG:NH1	6:E:107:LYS:HD2	2.28	0.49
6:E:282:ARG:NH1	6:E:305:MET:SD	2.86	0.49
8:G:93:ARG:HD2	8:G:93:ARG:O	2.12	0.49
8:G:110:LEU:HB2	8:G:151:GLY:CA	2.35	0.49
8:G:130:ASP:OD1	8:G:133:TRP:HB3	2.13	0.49
8:G:140:PRO:C	8:G:142:PRO:HD2	2.33	0.49
1:1:104:DT:C5	8:G:165:LEU:HD22	2.47	0.49
2:2:44:DA:C2'	2:2:45:DA:C8	2.96	0.49
3:A:233:GLU:O	3:A:250:VAL:HG23	2.12	0.49
3:A:453:VAL:HG23	3:A:453:VAL:O	2.12	0.49
3:A:542:ILE:HG22	3:A:856:HIS:HE1	1.63	0.49
3:A:571:ARG:HD3	3:A:913:ARG:NE	2.27	0.49
3:A:623:ASP:CB	3:A:629:SER:HB2	2.43	0.49
3:A:628:THR:CG2	3:A:631:LYS:HG2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:10:LYS:HZ2	4:B:14:ARG:NH2	1.96	0.49
4:B:49:VAL:O	4:B:49:VAL:CG1	2.56	0.49
4:B:114:LYS:HD2	4:B:350:ARG:HB3	1.93	0.49
4:B:226:THR:OG1	4:B:231:THR:HG23	2.13	0.49
4:B:244:VAL:O	4:B:245:GLY:C	2.48	0.49
4:B:542:ALA:N	4:B:833:VAL:HA	2.27	0.49
4:B:550:THR:HG22	4:B:551:VAL:N	2.27	0.49
4:B:624:VAL:HG12	4:B:625:GLN:HB3	1.93	0.49
4:B:839:VAL:HG12	4:B:840:LEU:N	2.28	0.49
4:B:1088:SER:HB2	4:B:1093:ILE:CG2	2.41	0.49
5:C:82:MET:O	5:C:85:VAL:N	2.39	0.49
5:C:145:GLY:HA3	5:C:149:ARG:NH1	2.25	0.49
5:C:148:TYR:H	5:C:170:PHE:N	2.10	0.49
6:E:245:VAL:HG22	6:E:246:MET:H	1.77	0.49
6:E:516:GLY:O	6:E:518:TYR:N	2.45	0.49
9:X:66:VAL:O	9:X:68:LEU:HG	2.13	0.49
9:X:129:ARG:O	9:X:132:GLN:HB2	2.13	0.49
9:Y:78:LEU:CG	9:Y:88:ARG:CD	2.82	0.49
1:1:61:DT:H2"	1:1:62:DT:C5	2.48	0.49
1:1:67:DC:H3'	1:1:68:DT:C6	2.48	0.49
1:1:74:DT:H1'	1:1:75:DA:O4'	2.13	0.49
3:A:37:SER:O	3:A:38:PHE:C	2.48	0.49
3:A:109:ILE:HD12	3:A:111:GLU:H	1.78	0.49
3:A:139:ASN:OD1	3:A:139:ASN:C	2.47	0.49
3:A:492:PRO:O	3:A:495:ILE:HD11	2.13	0.49
3:A:495:ILE:HG22	3:A:496:PRO:O	2.12	0.49
3:A:545:LEU:C	3:A:547:HIS:N	2.57	0.49
3:A:703:LEU:O	3:A:704:ILE:HG12	2.13	0.49
3:A:721:LYS:O	3:A:722:TYR:CE1	2.63	0.49
3:A:743:VAL:HB	3:A:748:LEU:HB2	1.95	0.49
3:A:932:VAL:CG1	3:A:933:HIS:N	2.75	0.49
3:A:1046:GLN:CD	3:A:1047:GLY:N	2.66	0.49
4:B:27:ALA:O	4:B:28:ARG:C	2.44	0.49
4:B:58:VAL:HG23	4:B:164:ARG:HH11	1.77	0.49
4:B:195:TYR:CZ	4:B:199:ARG:NH1	2.81	0.49
4:B:222:VAL:O	4:B:222:VAL:HG23	2.11	0.49
4:B:409:THR:HG23	4:B:427:VAL:HG21	1.94	0.49
4:B:416:GLN:OE1	4:B:417:GLN:N	2.46	0.49
4:B:535:ARG:O	4:B:839:VAL:HG22	2.12	0.49
4:B:539:ILE:H	4:B:865:ILE:HD12	1.77	0.49
4:B:913:LYS:CA	4:B:915:LYS:HG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1068:ASN:O	4:B:1069:LEU:HD23	2.13	0.49
4:B:1126:GLN:NE2	4:B:1126:GLN:HA	2.25	0.49
4:B:1130:GLN:O	4:B:1131:SER:C	2.49	0.49
4:B:1138:ASP:HA	4:B:1141:ILE:HD13	1.95	0.49
5:C:115:PRO:O	5:C:118:VAL:HG22	2.12	0.49
5:D:13:THR:CG2	5:D:206:PRO:CD	2.78	0.49
5:D:19:HIS:O	5:D:20:TYR:O	2.30	0.49
5:D:84:GLU:N	5:D:84:GLU:CD	2.56	0.49
6:E:571:THR:HG1	6:E:572:GLU:H	1.60	0.49
6:E:587:LEU:O	6:E:588:TYR:CG	2.66	0.49
8:G:212:TRP:O	8:G:213:TRP:C	2.50	0.49
8:G:256:LYS:HG3	8:G:256:LYS:O	2.12	0.49
8:G:333:GLU:O	8:G:336:VAL:HG12	2.13	0.49
8:G:351:LEU:O	8:G:352:GLU:O	2.30	0.49
9:X:47:LEU:CA	9:X:100:LEU:HA	2.40	0.49
9:X:70:ARG:HD2	9:X:70:ARG:N	2.28	0.49
9:Y:162:VAL:O	9:Y:169:THR:OG1	2.31	0.49
2:2:34:DA:H2'	2:2:35:DA:N9	2.26	0.49
2:2:60:DC:C2	2:2:61:DT:C4	3.00	0.49
3:A:221:LYS:HB3	3:A:225:LYS:HB3	1.94	0.49
3:A:293:THR:OG1	3:A:296:ASP:CG	2.51	0.49
3:A:388:ASP:HA	3:A:646:ASN:HB2	1.95	0.49
3:A:736:ILE:HD13	3:A:772:LYS:HD3	1.89	0.49
3:A:1006:LEU:HD11	8:G:301:PHE:HA	1.95	0.49
4:B:332:MET:CA	4:B:332:MET:HE2	2.43	0.49
4:B:455:PHE:HE2	4:B:982:ILE:O	1.96	0.49
4:B:458:VAL:HG11	4:B:477:GLY:C	2.34	0.49
4:B:499:LYS:HB2	4:B:889:LYS:NZ	2.20	0.49
4:B:657:GLY:CA	4:B:668:ASN:HD21	2.25	0.49
4:B:796:VAL:O	4:B:797:LEU:HD23	2.12	0.49
4:B:882:GLY:H	4:B:899:VAL:CG2	2.25	0.49
4:B:902:HIS:HB2	4:B:907:THR:OG1	2.13	0.49
4:B:916:VAL:CG1	4:B:917:LYS:H	2.22	0.49
4:B:1037:LYS:O	4:B:1038:VAL:C	2.50	0.49
4:B:1112:HIS:HA	4:B:1115:GLN:NE2	2.28	0.49
4:B:1207:PHE:CZ	6:E:14:ILE:HB	2.47	0.49
5:C:145:GLY:HA2	5:C:149:ARG:HH22	1.78	0.49
5:C:178:TYR:C	5:C:178:TYR:CD2	2.80	0.49
5:C:191:LYS:HA	5:C:192:ASP:OD2	2.13	0.49
5:D:44:LEU:C	5:D:46:SER:N	2.57	0.49
5:D:165:GLN:OE1	5:D:165:GLN:CA	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:112:VAL:HG22	6:E:307:GLN:HA	1.95	0.49
6:E:430:LEU:HG	6:E:444:PHE:CD1	2.48	0.49
6:E:515:LEU:O	6:E:516:GLY:O	2.30	0.49
7:F:37:ASN:O	7:F:38:ARG:C	2.49	0.49
8:G:117:ARG:HB2	8:G:129:ARG:HH21	1.78	0.49
8:G:127:ASP:CG	8:G:129:ARG:HB2	2.33	0.49
8:G:284:ILE:HG22	8:G:285:SER:N	2.28	0.49
9:X:25:VAL:HG22	9:X:48:LEU:HD22	1.94	0.49
9:X:57:VAL:CG2	9:X:58:TYR:H	2.25	0.49
9:X:188:VAL:HG22	9:X:192:ARG:CZ	2.42	0.49
9:Y:177:GLN:HA	9:Y:180:ALA:HB3	1.95	0.49
1:1:80:DA:C2'	1:1:81:DT:C6	2.96	0.48
1:1:80:DA:C4	1:1:81:DT:C7	2.96	0.48
1:1:87:DA:C2	2:2:39:DT:O2	2.65	0.48
1:1:107:DG:N1	1:1:108:DA:N1	2.60	0.48
1:1:109:DG:C4'	1:1:110:DC:C2	2.95	0.48
2:2:33:DA:C2'	2:2:34:DA:C8	2.90	0.48
3:A:50:LEU:C	3:A:52:SER:N	2.58	0.48
3:A:95:MET:C	3:A:115:PHE:HA	2.34	0.48
3:A:129:ILE:O	3:A:130:ILE:HG22	2.13	0.48
3:A:154:ASP:OD2	3:A:158:ARG:HG3	2.13	0.48
3:A:215:HIS:ND1	3:A:309:TYR:CZ	2.80	0.48
3:A:256:LEU:HA	3:A:256:LEU:HD12	1.53	0.48
3:A:523:GLN:O	3:A:523:GLN:CD	2.51	0.48
3:A:596:GLY:HA2	3:A:662:ARG:HH22	1.76	0.48
3:A:617:ALA:CB	3:A:620:LYS:HG3	2.43	0.48
3:A:703:LEU:C	3:A:704:ILE:CG1	2.81	0.48
3:A:820:PHE:HA	3:A:824:GLN:O	2.13	0.48
3:A:958:MET:C	3:A:959:VAL:HG13	2.33	0.48
3:A:1028:PHE:CD2	6:E:491:MET:HE1	2.48	0.48
4:B:89:GLU:HA	4:B:370:THR:HA	1.94	0.48
4:B:103:GLU:O	4:B:104:ALA:C	2.50	0.48
4:B:564:ILE:O	4:B:564:ILE:HG22	2.12	0.48
4:B:765:SER:HB2	4:B:800:GLU:H	1.78	0.48
4:B:815:ASP:O	4:B:816:ILE:HG23	2.13	0.48
4:B:971:PRO:O	4:B:972:TYR:CD1	2.66	0.48
4:B:1104:ASP:HB3	4:B:1108:ALA:HB3	1.95	0.48
4:B:1141:ILE:HD12	4:B:1141:ILE:N	2.23	0.48
4:B:1177:ASN:ND2	4:B:1190:TYR:CZ	2.79	0.48
5:C:196:LEU:HD23	5:C:197:GLU:CA	2.43	0.48
5:D:63:HIS:CA	5:D:164:LEU:HD11	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:191:LYS:HA	5:D:192:ASP:OD2	2.13	0.48
6:E:102:ARG:NH1	6:E:102:ARG:HG3	2.27	0.48
6:E:124:TYR:HA	6:E:127:ILE:HB	1.95	0.48
6:E:194:LEU:HD13	6:E:245:VAL:HG11	1.94	0.48
6:E:400:ASN:O	6:E:403:ALA:HB3	2.13	0.48
6:E:450:GLU:O	6:E:451:GLY:O	2.31	0.48
8:G:120:LEU:HB3	8:G:128:PRO:CD	2.42	0.48
9:Y:30:ARG:HB2	9:Y:97:PRO:CD	2.43	0.48
9:Y:200:LYS:O	9:Y:201:LYS:C	2.50	0.48
2:2:3:DT:P	2:2:3:DT:C6	3.06	0.48
2:2:42:DT:C4	2:2:43:DG:C6	3.02	0.48
2:2:49:DT:O5'	9:X:176:HIS:NE2	2.33	0.48
2:2:58:DA:C2	2:2:59:DG:C4	3.01	0.48
3:A:44:GLU:C	3:A:46:LEU:H	2.14	0.48
3:A:67:PHE:HB3	3:A:99:THR:HA	1.94	0.48
3:A:93:VAL:HB	3:A:121:LEU:CD2	2.43	0.48
3:A:161:TYR:OH	3:A:308:GLU:HA	2.13	0.48
3:A:161:TYR:CZ	3:A:308:GLU:HA	2.44	0.48
3:A:412:ARG:CZ	3:A:412:ARG:HB2	2.41	0.48
3:A:583:ALA:O	3:A:584:ARG:C	2.50	0.48
3:A:850:ASP:O	3:A:852:MET:HB2	2.13	0.48
4:B:91:PHE:CZ	4:B:156:ASP:HB2	2.48	0.48
4:B:440:LYS:CA	4:B:1000:GLU:HA	2.38	0.48
4:B:645:LEU:HD12	4:B:662:LYS:O	2.14	0.48
4:B:647:LEU:HG	4:B:647:LEU:O	2.13	0.48
4:B:668:ASN:OD1	4:B:668:ASN:O	2.31	0.48
4:B:1240:ILE:HG22	4:B:1241:ILE:HB	1.94	0.48
5:D:126:TYR:CE1	5:D:128:ALA:N	2.80	0.48
5:D:196:LEU:CD2	5:D:197:GLU:N	2.76	0.48
6:E:104:GLY:O	6:E:251:VAL:CB	2.57	0.48
6:E:228:LEU:O	6:E:230:VAL:N	2.46	0.48
6:E:280:ILE:O	6:E:283:ASN:N	2.46	0.48
6:E:286:LEU:HA	6:E:289:LEU:HG	1.94	0.48
6:E:391:ARG:O	6:E:392:LEU:C	2.46	0.48
6:E:416:TRP:HD1	6:E:417:ASP:OD1	1.96	0.48
6:E:583:SER:C	6:E:585:THR:H	2.12	0.48
9:Y:70:ARG:N	9:Y:70:ARG:HD2	2.28	0.48
1:1:72:DT:H2"	1:1:73:DA:C5'	2.43	0.48
3:A:61:GLY:O	3:A:104:LYS:HG3	2.13	0.48
3:A:92:ALA:HA	3:A:120:PRO:CA	2.41	0.48
3:A:185:VAL:O	3:A:185:VAL:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:277:LEU:O	3:A:281:LEU:N	2.38	0.48
3:A:338:VAL:O	3:A:339:GLY:C	2.49	0.48
3:A:396:LEU:C	3:A:398:HIS:N	2.59	0.48
3:A:413:GLU:C	3:A:415:ALA:N	2.67	0.48
3:A:633:GLN:O	3:A:635:ILE:HG13	2.14	0.48
3:A:846:ILE:HD12	3:A:846:ILE:HA	1.39	0.48
3:A:968:PHE:CD2	4:B:48:GLY:HA3	2.48	0.48
4:B:63:ARG:O	4:B:66:LEU:N	2.46	0.48
4:B:105:LEU:HD12	4:B:105:LEU:HA	1.56	0.48
4:B:288:CYS:CB	4:B:298:CYS:SG	3.01	0.48
4:B:303:LEU:HB3	6:E:502:THR:CA	2.43	0.48
4:B:417:GLN:HE22	4:B:421:GLY:HA2	1.78	0.48
4:B:510:LEU:H	4:B:875:GLN:CD	2.16	0.48
4:B:646:LEU:HG	4:B:661:VAL:CA	2.39	0.48
4:B:655:GLU:HG3	4:B:657:GLY:C	2.33	0.48
4:B:688:PRO:CG	4:B:739:ARG:HD2	2.43	0.48
4:B:885:ARG:CB	4:B:898:LEU:HD13	2.38	0.48
4:B:900:LEU:HD13	4:B:905:MET:HB2	1.94	0.48
4:B:901:ARG:H	4:B:904:ASP:HB3	1.78	0.48
4:B:923:VAL:HG12	4:B:971:PRO:HG2	1.95	0.48
4:B:983:GLU:CD	4:B:984:ASP:N	2.66	0.48
5:C:18:ASN:OD1	5:C:174:ARG:HD2	2.14	0.48
5:C:92:SER:HB3	5:C:144:ARG:HE	1.76	0.48
5:D:44:LEU:HA	5:D:44:LEU:HD23	1.24	0.48
5:D:97:GLY:O	5:D:139:GLU:HB2	2.13	0.48
6:E:419:LEU:HD23	6:E:419:LEU:C	2.34	0.48
8:G:285:SER:C	8:G:287:GLU:N	2.66	0.48
8:G:320:GLU:HA	8:G:323:GLU:CG	2.42	0.48
8:G:354:ILE:HA	8:G:357:ILE:HD12	1.95	0.48
9:X:37:PRO:HA	9:X:88:ARG:HB3	1.94	0.48
9:X:56:ARG:NH1	9:X:90:TYR:HD2	2.10	0.48
9:X:150:VAL:HA	9:X:153:LEU:HB2	1.95	0.48
9:X:161:GLY:N	9:X:170:ILE:HD13	2.28	0.48
9:X:162:VAL:HG22	9:X:171:ASP:N	2.27	0.48
9:Y:55:SER:O	9:Y:91:HIS:O	2.31	0.48
2:2:51:DT:OP2	2:2:51:DT:H3'	2.13	0.48
3:A:159:ARG:HH12	3:A:161:TYR:HE1	1.60	0.48
3:A:487:ASP:C	3:A:512:TYR:HE1	2.17	0.48
3:A:552:ARG:HG2	3:A:894:ASN:HB3	1.95	0.48
3:A:618:SER:C	3:A:620:LYS:H	2.15	0.48
3:A:956:LYS:O	3:A:957:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:77:GLU:O	4:B:80:TYR:N	2.46	0.48
4:B:103:GLU:HB3	4:B:354:ASP:CB	2.40	0.48
4:B:248:VAL:HG11	4:B:272:ILE:HD12	1.96	0.48
4:B:255:GLU:HA	4:B:255:GLU:OE1	2.08	0.48
4:B:538:GLU:HG2	4:B:538:GLU:O	2.13	0.48
4:B:570:GLN:OE1	4:B:753:PRO:HD3	2.13	0.48
4:B:680:ILE:HG21	8:G:101:ILE:HG21	1.94	0.48
4:B:682:ARG:HG3	4:B:683:GLU:CG	2.39	0.48
4:B:687:LYS:CD	4:B:739:ARG:HH11	2.27	0.48
4:B:829:ARG:O	4:B:830:LEU:HD23	2.14	0.48
4:B:921:LEU:HA	4:B:938:GLY:O	2.13	0.48
4:B:1014:ILE:O	4:B:1017:LEU:HG	2.13	0.48
5:C:86:ILE:C	5:C:87:LEU:HG	2.32	0.48
5:C:165:GLN:OE1	5:C:165:GLN:CA	2.61	0.48
5:D:86:ILE:C	5:D:87:LEU:HG	2.32	0.48
6:E:42:PRO:HA	6:E:57:LEU:CD2	2.43	0.48
6:E:47:TYR:CD1	6:E:48:ARG:HG3	2.46	0.48
6:E:188:ILE:HD13	6:E:300:ARG:HE	1.71	0.48
6:E:335:SER:O	6:E:336:ASP:HB3	2.13	0.48
6:E:533:LYS:O	6:E:556:VAL:HG13	2.11	0.48
6:E:555:TYR:C	6:E:556:VAL:HG23	2.34	0.48
6:E:593:VAL:HA	6:E:603:SER:O	2.14	0.48
8:G:138:GLN:HG2	8:G:138:GLN:O	2.13	0.48
8:G:214:ILE:O	8:G:216:GLN:N	2.46	0.48
8:G:380:ASN:N	8:G:383:SER:HB2	2.27	0.48
9:X:30:ARG:HG3	9:X:97:PRO:CG	2.43	0.48
9:X:82:THR:N	9:X:86:SER:HB2	2.28	0.48
9:Y:52:VAL:HG21	9:Y:98:VAL:HA	1.95	0.48
9:Y:145:MET:CE	9:Y:189:THR:HA	2.44	0.48
2:2:7:DT:C2	2:2:8:DC:N3	2.81	0.48
2:2:9:DC:C5	2:2:10:DG:C6	3.01	0.48
2:2:44:DA:C2	2:2:45:DA:C4	3.02	0.48
2:2:56:DG:C2	2:2:57:DT:C2	3.02	0.48
3:A:54:SER:N	3:A:55:PRO:HD2	2.29	0.48
3:A:169:ARG:NH1	3:A:268:ASP:HB2	2.27	0.48
3:A:566:LEU:H	3:A:569:PRO:HG3	1.77	0.48
3:A:721:LYS:C	3:A:722:TYR:CD1	2.85	0.48
3:A:759:ILE:HD12	3:A:815:VAL:O	2.14	0.48
3:A:762:TRP:CD1	3:A:763:VAL:O	2.66	0.48
3:A:852:MET:HE2	3:A:852:MET:HB3	1.62	0.48
3:A:931:ILE:O	3:A:932:VAL:C	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:993:ARG:HD3	6:E:355:ASP:HB2	1.94	0.48
3:A:1017:PHE:O	6:E:351:GLY:HA2	2.13	0.48
4:B:96:ASP:C	4:B:423:LEU:H	2.15	0.48
4:B:234:LYS:C	4:B:236:SER:N	2.64	0.48
4:B:332:MET:HB3	4:B:1010:GLY:HA3	1.95	0.48
4:B:367:THR:CA	4:B:370:THR:HG1	2.26	0.48
4:B:473:THR:CG2	4:B:978:ALA:N	2.63	0.48
4:B:851:GLY:CA	4:B:876:ILE:HB	2.44	0.48
4:B:939:GLN:NE2	4:B:941:VAL:HG23	2.23	0.48
4:B:1033:GLY:N	4:B:1052:ILE:HD12	2.27	0.48
4:B:1168:VAL:HG22	4:B:1169:GLU:H	1.79	0.48
5:C:39:ALA:O	5:C:40:LEU:C	2.49	0.48
6:E:28:ARG:CZ	6:E:102:ARG:NE	2.76	0.48
6:E:81:HIS:CD2	6:E:84:ILE:HG22	2.47	0.48
6:E:227:ARG:O	6:E:228:LEU:C	2.48	0.48
6:E:230:VAL:O	6:E:232:ASP:N	2.46	0.48
6:E:232:ASP:O	6:E:233:ASN:C	2.47	0.48
6:E:261:GLN:NE2	6:E:262:LEU:N	2.61	0.48
6:E:277:ARG:O	6:E:280:ILE:N	2.45	0.48
6:E:496:ASN:OD1	6:E:496:ASN:O	2.31	0.48
6:E:586:VAL:HG22	6:E:587:LEU:N	2.28	0.48
7:F:28:ARG:O	7:F:29:TYR:C	2.48	0.48
8:G:116:VAL:O	8:G:117:ARG:C	2.50	0.48
8:G:376:LEU:C	8:G:376:LEU:HD12	2.34	0.48
9:X:33:THR:CA	9:X:94:ALA:H	2.25	0.48
9:X:47:LEU:HD13	9:X:52:VAL:HG21	1.83	0.48
9:X:76:GLY:O	9:X:78:LEU:HG	2.13	0.48
9:X:179:ILE:H	9:X:179:ILE:HG13	1.41	0.48
9:Y:36:PHE:CZ	9:Y:91:HIS:CE1	2.97	0.48
1:1:82:DT:N3	2:2:44:DA:N1	2.62	0.48
2:2:42:DT:C5	2:2:43:DG:C2	3.01	0.48
3:A:27:LEU:N	3:A:27:LEU:CD2	2.73	0.48
3:A:102:LEU:H	3:A:109:ILE:HA	1.77	0.48
3:A:281:LEU:O	3:A:283:LEU:N	2.47	0.48
3:A:610:VAL:HA	3:A:633:GLN:N	2.28	0.48
3:A:772:LYS:H	3:A:803:SER:HA	1.79	0.48
4:B:453:VAL:HA	4:B:482:ILE:HD12	1.95	0.48
4:B:582:VAL:C	4:B:814:ALA:HB1	2.33	0.48
4:B:764:ARG:N	4:B:806:GLU:OE2	2.45	0.48
4:B:943:VAL:HG22	4:B:964:VAL:HG22	1.96	0.48
4:B:1033:GLY:HA3	4:B:1052:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:148:TYR:CZ	5:D:170:PHE:O	2.66	0.48
5:D:196:LEU:HD23	5:D:197:GLU:CA	2.43	0.48
5:D:201:ASN:N	5:D:201:ASN:OD1	2.43	0.48
6:E:30:LEU:HD11	6:E:32:ASN:HB3	1.95	0.48
6:E:92:GLU:O	6:E:94:THR:HG22	2.13	0.48
6:E:247:THR:O	6:E:247:THR:HG22	2.14	0.48
6:E:252:ILE:O	6:E:253:PRO:C	2.45	0.48
7:F:30:ARG:O	7:F:31:ILE:C	2.46	0.48
7:F:35:VAL:O	7:F:35:VAL:HG22	2.11	0.48
8:G:86:LEU:HD12	8:G:89:ILE:HD11	1.96	0.48
8:G:89:ILE:CG1	8:G:90:GLY:N	2.77	0.48
8:G:219:THR:O	8:G:221:ALA:N	2.47	0.48
8:G:232:PRO:HG2	8:G:235:LEU:HB3	1.93	0.48
9:X:169:THR:CB	9:X:211:THR:HA	2.43	0.48
9:X:212:VAL:HG12	9:X:214:LYS:H	1.78	0.48
9:Y:95:PHE:CD2	9:Y:96:THR:N	2.82	0.48
1:1:85:DG:C4	1:1:86:DG:C8	3.01	0.48
1:1:106:DG:C2	1:1:107:DG:N1	2.81	0.48
2:2:51:DT:C2'	2:2:52:DA:C8	2.96	0.48
3:A:30:LEU:O	3:A:400:ARG:NH1	2.46	0.48
3:A:57:THR:HG23	3:A:63:LEU:C	2.33	0.48
3:A:95:MET:O	3:A:115:PHE:CA	2.59	0.48
3:A:489:ARG:CG	3:A:524:VAL:HA	2.44	0.48
3:A:618:SER:HA	3:A:621:SER:N	2.28	0.48
3:A:707:ARG:CA	3:A:710:GLN:HB3	2.40	0.48
3:A:764:GLU:OE1	3:A:764:GLU:HA	2.11	0.48
3:A:850:ASP:O	3:A:851:LYS:O	2.32	0.48
3:A:906:ALA:HB2	3:A:936:LEU:HD21	1.95	0.48
4:B:82:ARG:HB3	4:B:84:GLU:CD	2.34	0.48
4:B:85:ILE:HG21	4:B:372:HIS:HA	1.95	0.48
4:B:356:THR:OG1	4:B:411:TYR:N	2.36	0.48
4:B:361:ARG:H	4:B:392:GLU:H	1.59	0.48
4:B:499:LYS:N	4:B:502:ASP:OD2	2.42	0.48
4:B:522:VAL:O	4:B:539:ILE:HA	2.13	0.48
4:B:637:HIS:N	4:B:638:GLU:OE2	2.41	0.48
4:B:706:THR:O	4:B:725:ILE:HG22	2.13	0.48
4:B:865:ILE:O	4:B:866:VAL:C	2.51	0.48
4:B:873:ARG:O	4:B:874:THR:OG1	2.30	0.48
5:D:72:ARG:HB3	5:D:73:GLU:CD	2.34	0.48
5:D:195:LEU:N	5:D:195:LEU:CD1	2.74	0.48
6:E:257:ARG:NH2	6:E:273:ASN:OD1	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:120:LEU:CB	8:G:128:PRO:HG3	2.29	0.48
8:G:185:GLN:O	8:G:187:GLY:N	2.47	0.48
9:X:44:VAL:HG12	9:X:74:VAL:HB	1.95	0.48
9:Y:33:THR:N	9:Y:94:ALA:H	2.11	0.48
9:Y:57:VAL:HB	9:Y:91:HIS:HB3	1.95	0.48
9:Y:90:TYR:HD1	9:Y:90:TYR:HA	1.39	0.48
1:1:65:DA:H1'	1:1:66:DG:O4'	2.14	0.48
1:1:81:DT:H1'	1:1:82:DT:C6	2.49	0.48
1:1:105:DG:N3	8:G:86:LEU:HD21	2.29	0.48
1:1:115:DA:C8	1:1:116:DC:N4	2.81	0.48
2:2:50:DG:OP2	9:X:190:VAL:CG2	2.61	0.48
2:2:57:DT:H2"	2:2:58:DA:C8	2.48	0.48
3:A:242:LEU:HD12	3:A:242:LEU:HA	1.63	0.48
3:A:470:ARG:HD2	3:A:502:TYR:CZ	2.40	0.48
3:A:605:GLU:HB2	3:A:637:TYR:O	2.14	0.48
3:A:720:GLU:HG3	3:A:722:TYR:CZ	2.47	0.48
3:A:724:ILE:HG13	3:A:725:GLU:N	2.29	0.48
3:A:1046:GLN:HA	3:A:1049:ASN:ND2	2.28	0.48
4:B:44:ALA:O	4:B:47:ALA:N	2.45	0.48
4:B:66:LEU:O	4:B:69:ALA:N	2.46	0.48
4:B:68:ALA:O	4:B:71:GLU:HG3	2.13	0.48
4:B:134:ILE:O	4:B:137:VAL:N	2.46	0.48
4:B:283:ARG:HG2	4:B:288:CYS:SG	2.53	0.48
4:B:311:LEU:CD1	7:F:27:ASN:HD22	2.08	0.48
4:B:440:LYS:NZ	4:B:1000:GLU:N	2.59	0.48
4:B:526:PRO:HD2	4:B:859:VAL:HG21	1.96	0.48
4:B:550:THR:N	4:B:566:THR:H	2.12	0.48
4:B:581:LYS:CG	4:B:814:ALA:HB3	2.37	0.48
4:B:610:GLU:HB3	4:B:625:GLN:HG3	1.95	0.48
4:B:678:ASN:HD21	4:B:681:LEU:HA	1.78	0.48
4:B:900:LEU:HD23	4:B:900:LEU:HA	1.53	0.48
4:B:1013:ARG:O	4:B:1014:ILE:C	2.49	0.48
4:B:1130:GLN:C	4:B:1133:GLY:H	2.17	0.48
4:B:1146:ARG:O	4:B:1147:GLN:C	2.48	0.48
4:B:1176:VAL:O	4:B:1179:ALA:HB3	2.14	0.48
5:C:142:ILE:CG2	5:C:143:GLU:N	2.77	0.48
5:C:166:ILE:HG12	5:C:167:ASP:H	1.79	0.48
6:E:133:LEU:C	6:E:135:ASP:H	2.16	0.48
6:E:141:TYR:CD2	6:E:141:TYR:N	2.79	0.48
6:E:158:TYR:CE2	6:E:159:LYS:HE2	2.49	0.48
6:E:265:GLY:HA2	8:G:278:LYS:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:388:VAL:CG1	6:E:389:ILE:N	2.76	0.48
6:E:482:GLU:O	6:E:483:SER:C	2.48	0.48
8:G:155:LYS:O	8:G:159:VAL:HG22	2.13	0.48
8:G:233:VAL:HA	8:G:236:TYR:CE1	2.47	0.48
8:G:239:ILE:HA	8:G:242:ILE:HD12	1.95	0.48
8:G:287:GLU:CB	8:G:297:ARG:HB3	2.42	0.48
8:G:378:HIS:ND1	9:X:57:VAL:HG22	2.25	0.48
9:X:108:VAL:HG21	9:X:122:MET:HE2	1.94	0.48
9:X:169:THR:HG21	9:X:211:THR:HA	1.96	0.48
9:Y:32:LYS:HG2	9:Y:33:THR:H	1.78	0.48
9:Y:74:VAL:HG22	9:Y:75:PHE:O	2.14	0.48
1:1:107:DG:C4	1:1:108:DA:C5	3.01	0.48
2:2:59:DG:C8	2:2:59:DG:O5'	2.61	0.48
3:A:185:VAL:HG11	3:A:200:LYS:NZ	2.29	0.48
3:A:252:GLY:HA2	3:A:255:GLN:CD	2.33	0.48
3:A:597:ASP:CG	3:A:662:ARG:HD2	2.33	0.48
3:A:609:ARG:O	3:A:633:GLN:OE1	2.32	0.48
3:A:684:GLN:O	3:A:978:TYR:CD1	2.67	0.48
3:A:821:THR:N	3:A:824:GLN:HB2	2.29	0.48
3:A:906:ALA:HB2	3:A:936:LEU:HD23	1.96	0.48
4:B:93:LYS:O	4:B:96:ASP:N	2.47	0.48
4:B:107:ASP:HB3	4:B:354:ASP:CB	2.40	0.48
4:B:160:LYS:HD2	4:B:160:LYS:N	2.29	0.48
4:B:349:VAL:O	4:B:350:ARG:C	2.51	0.48
4:B:455:PHE:N	4:B:984:ASP:OD1	2.47	0.48
4:B:538:GLU:CB	4:B:835:LEU:HD11	2.44	0.48
4:B:564:ILE:CD1	4:B:830:LEU:HD11	2.44	0.48
4:B:565:THR:CA	4:B:571:VAL:HA	2.34	0.48
4:B:591:LEU:HB3	4:B:793:THR:O	2.14	0.48
4:B:636:THR:HB	4:B:784:SER:HB3	1.95	0.48
4:B:700:VAL:HA	4:B:703:ARG:H	1.77	0.48
4:B:926:THR:O	4:B:933:PHE:HD1	1.97	0.48
6:E:23:ARG:HG2	6:E:105:TYR:CE2	2.49	0.48
6:E:105:TYR:HA	6:E:249:ILE:O	2.14	0.48
6:E:390:ASN:C	6:E:390:ASN:OD1	2.44	0.48
6:E:499:SER:O	6:E:502:THR:N	2.27	0.48
8:G:200:HIS:N	8:G:201:GLU:OE1	2.47	0.48
8:G:258:THR:OG1	8:G:262:ILE:HG12	2.13	0.48
8:G:260:GLU:O	8:G:263:ALA:HB3	2.13	0.48
9:Y:169:THR:CB	9:Y:211:THR:HA	2.43	0.48
2:2:39:DT:OP2	2:2:39:DT:C6	2.63	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:45:DA:C4	2:2:46:DT:O2	2.66	0.48
2:2:59:DG:C5	2:2:60:DC:C5	3.02	0.48
3:A:62:LYS:HG2	3:A:105:GLU:HB3	1.96	0.48
3:A:185:VAL:CG2	3:A:197:VAL:CA	2.84	0.48
3:A:600:TYR:CE2	3:A:607:ARG:NE	2.82	0.48
3:A:698:TYR:HD1	6:E:512:ASP:OD2	1.97	0.48
3:A:727:ARG:HD3	3:A:728:GLN:N	2.29	0.48
3:A:739:GLU:OE2	3:A:740:ILE:O	2.31	0.48
3:A:1049:ASN:O	3:A:1051:ALA:N	2.47	0.48
3:A:1053:ASN:O	3:A:1055:ILE:N	2.46	0.48
3:A:1087:HIS:O	3:A:1087:HIS:CD2	2.67	0.48
4:B:3:PHE:C	4:B:3:PHE:CD2	2.86	0.48
4:B:73:ILE:HB	4:B:94:VAL:HG23	1.94	0.48
4:B:87:GLU:O	4:B:91:PHE:HB3	2.13	0.48
4:B:95:ILE:HG13	4:B:146:LEU:HD13	1.96	0.48
4:B:125:MET:HG3	6:E:515:LEU:HD22	1.92	0.48
4:B:266:ASP:O	4:B:268:LEU:N	2.47	0.48
4:B:365:THR:HA	4:B:379:VAL:HG12	1.95	0.48
4:B:369:ARG:NH2	4:B:1001:ARG:HA	2.28	0.48
4:B:426:GLU:HG2	4:B:426:GLU:O	2.13	0.48
4:B:439:GLU:HB3	4:B:1067:GLN:OE1	2.14	0.48
4:B:441:ALA:O	4:B:999:PHE:CD2	2.67	0.48
4:B:516:THR:HG23	4:B:870:VAL:HA	1.96	0.48
4:B:523:VAL:HG21	4:B:866:VAL:CG2	2.32	0.48
4:B:550:THR:H	4:B:566:THR:HA	1.79	0.48
4:B:606:PHE:CE1	4:B:778:ASP:CA	2.97	0.48
4:B:648:VAL:HG11	4:B:661:VAL:CG1	2.27	0.48
4:B:666:CYS:SG	4:B:667:GLN:N	2.86	0.48
4:B:675:THR:CB	4:B:683:GLU:HG3	2.43	0.48
4:B:701:ILE:HA	4:B:704:ASP:OD2	2.14	0.48
4:B:852:SER:O	4:B:874:THR:HG22	2.13	0.48
4:B:1042:ASP:HB2	4:B:1050:LYS:HZ1	1.77	0.48
5:C:219:ASP:O	5:C:222:ASN:HB3	2.14	0.48
6:E:47:TYR:CG	8:G:232:PRO:HD3	2.48	0.48
6:E:220:LYS:HE2	6:E:223:LYS:HD2	1.90	0.48
6:E:261:GLN:O	6:E:262:LEU:HD12	2.14	0.48
6:E:263:ASP:C	6:E:265:GLY:N	2.67	0.48
6:E:281:ASN:O	6:E:283:ASN:N	2.47	0.48
6:E:398:VAL:HG23	6:E:407:LEU:HD23	1.95	0.48
6:E:430:LEU:HD22	6:E:475:VAL:HG22	1.96	0.48
6:E:574:VAL:CG1	6:E:575:LYS:HG3	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:31:ILE:O	7:F:32:THR:O	2.32	0.48
7:F:55:MET:CB	7:F:60:ARG:HE	2.25	0.48
7:F:62:ILE:O	7:F:66:SER:N	2.46	0.48
8:G:133:TRP:CE2	8:G:136:ALA:HA	2.49	0.48
8:G:178:LEU:CG	8:G:222:ILE:HG22	2.41	0.48
9:X:34:ILE:HB	9:X:92:ALA:HB1	1.96	0.48
9:Y:49:LYS:HD2	9:Y:71:GLU:HA	1.95	0.48
1:1:61:DT:N3	1:1:62:DT:N3	2.62	0.47
1:1:94:DT:H2"	1:1:95:DT:O5'	2.14	0.47
1:1:101:DT:N3	1:1:102:DA:N7	2.61	0.47
2:2:40:DC:N3	2:2:41:DC:C4	2.82	0.47
2:2:51:DT:H3'	2:2:51:DT:P	2.53	0.47
2:2:52:DA:C6	2:2:53:DT:C5	3.02	0.47
3:A:29:ASP:OD1	3:A:29:ASP:C	2.45	0.47
3:A:81:VAL:HG23	3:A:82:GLU:HG2	1.95	0.47
3:A:151:SER:CA	3:A:161:TYR:HA	2.42	0.47
3:A:169:ARG:O	3:A:169:ARG:HG3	2.13	0.47
3:A:215:HIS:CE1	3:A:219:PHE:CE1	3.02	0.47
3:A:573:LEU:HA	3:A:573:LEU:HD13	1.65	0.47
3:A:676:GLU:OE1	3:A:677:GLY:N	2.47	0.47
4:B:8:VAL:HG11	6:E:615:TYR:OH	2.14	0.47
4:B:379:VAL:HG13	4:B:380:GLU:N	2.22	0.47
4:B:463:LYS:NZ	4:B:466:ARG:N	2.62	0.47
4:B:488:TYR:HD1	4:B:849:THR:O	1.97	0.47
4:B:518:ILE:HA	4:B:869:SER:H	1.79	0.47
4:B:552:THR:OG1	4:B:563:LEU:CG	2.62	0.47
4:B:660:VAL:HA	4:B:665:PHE:HA	1.96	0.47
4:B:928:LEU:HD21	4:B:934:ALA:N	2.11	0.47
4:B:1090:PRO:O	4:B:1093:ILE:CG1	2.62	0.47
5:C:105:THR:O	5:C:130:ILE:N	2.47	0.47
5:C:201:ASN:OD1	5:C:203:SER:N	2.44	0.47
6:E:69:TRP:CD1	6:E:93:VAL:CG1	2.93	0.47
6:E:337:ILE:HG23	6:E:338:ILE:HG23	1.96	0.47
6:E:377:ARG:CD	6:E:448:LEU:HB3	2.44	0.47
6:E:522:ALA:HB3	6:E:553:HIS:CE1	2.49	0.47
8:G:184:ILE:O	8:G:185:GLN:C	2.46	0.47
8:G:263:ALA:O	8:G:267:GLU:N	2.42	0.47
8:G:267:GLU:O	8:G:268:MET:CG	2.62	0.47
8:G:317:LEU:C	8:G:321:ASP:OD2	2.52	0.47
8:G:373:LEU:O	8:G:377:ARG:N	2.47	0.47
9:X:57:VAL:HG22	9:X:58:TYR:H	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:167:GLY:HA3	9:X:213:HIS:O	2.13	0.47
9:Y:93:VAL:HG12	9:Y:95:PHE:N	2.28	0.47
9:Y:126:LEU:HD23	9:Y:130:ILE:HG13	1.92	0.47
1:1:106:DG:N3	1:1:107:DG:C5	2.82	0.47
3:A:28:PRO:O	3:A:28:PRO:HG2	2.14	0.47
3:A:142:VAL:N	3:A:324:ARG:O	2.26	0.47
3:A:258:ASP:OD1	3:A:258:ASP:C	2.40	0.47
3:A:283:LEU:HA	3:A:283:LEU:HD23	1.51	0.47
3:A:333:GLN:CD	3:A:334:ASN:N	2.67	0.47
3:A:513:ARG:HD3	3:A:513:ARG:H	1.79	0.47
3:A:527:VAL:CG2	3:A:528:ALA:N	2.77	0.47
3:A:696:TYR:O	3:A:697:ASN:HB3	2.14	0.47
3:A:913:ARG:C	3:A:914:PHE:CD1	2.85	0.47
3:A:1097:SER:O	3:A:1098:LEU:CD2	2.62	0.47
4:B:423:LEU:C	4:B:424:LEU:HD23	2.34	0.47
4:B:453:VAL:HG11	4:B:455:PHE:CE1	2.49	0.47
4:B:454:LYS:HA	4:B:984:ASP:HA	1.95	0.47
4:B:563:LEU:HB3	4:B:571:VAL:HG13	1.96	0.47
4:B:676:GLN:CD	4:B:679:ASP:H	2.18	0.47
4:B:910:ILE:CD1	4:B:943:VAL:HG21	2.41	0.47
4:B:1077:VAL:HG23	4:B:1083:LEU:HG	1.96	0.47
4:B:1112:HIS:HA	4:B:1115:GLN:HE21	1.78	0.47
4:B:1144:ILE:O	4:B:1147:GLN:CB	2.62	0.47
4:B:1236:LYS:C	4:B:1239:VAL:HG12	2.34	0.47
4:B:1243:ARG:CB	6:E:6:THR:HG22	2.44	0.47
5:C:35:THR:O	5:C:38:ASN:HB3	2.13	0.47
5:C:105:THR:H	5:C:130:ILE:HG23	1.78	0.47
5:D:201:ASN:HD21	5:D:203:SER:N	2.12	0.47
6:E:62:ILE:HG21	6:E:62:ILE:HD13	1.44	0.47
6:E:435:THR:HG21	6:E:440:GLY:HA3	1.96	0.47
6:E:541:VAL:CG1	6:E:542:ILE:N	2.73	0.47
6:E:545:PHE:O	6:E:548:GLU:N	2.33	0.47
6:E:614:ILE:O	6:E:617:LYS:HB3	2.14	0.47
7:F:60:ARG:HD3	7:F:60:ARG:HA	1.43	0.47
8:G:248:LEU:O	8:G:251:GLN:HB2	2.14	0.47
8:G:331:PRO:HA	8:G:334:ARG:CD	2.43	0.47
9:X:179:ILE:O	9:X:182:ALA:HB3	2.14	0.47
9:Y:52:VAL:HG13	9:Y:95:PHE:N	2.30	0.47
1:1:77:DA:N6	2:2:50:DG:O6	2.48	0.47
1:1:77:DA:N3	2:2:50:DG:C2	2.83	0.47
1:1:92:DT:H2”	1:1:93:DT:OP2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:116:DC:C4	1:1:117:DG:O6	2.68	0.47
1:1:117:DG:N7	1:1:118:DG:C5	2.81	0.47
3:A:48:GLU:O	3:A:49:GLU:C	2.49	0.47
3:A:123:THR:HG23	3:A:128:PHE:HA	1.95	0.47
3:A:136:VAL:CG1	3:A:387:MET:SD	3.03	0.47
3:A:293:THR:OG1	3:A:294:SER:N	2.42	0.47
3:A:582:GLY:O	3:A:583:ALA:C	2.48	0.47
3:A:636:ARG:HG3	3:A:636:ARG:NH1	2.29	0.47
3:A:805:ARG:N	3:A:805:ARG:HD2	2.30	0.47
3:A:806:VAL:CG1	3:A:807:PRO:HD2	2.45	0.47
3:A:972:VAL:HG13	4:B:50:SER:OG	2.14	0.47
4:B:122:VAL:HA	4:B:126:ALA:HB3	1.96	0.47
4:B:203:VAL:HG22	4:B:1197:ILE:O	2.14	0.47
4:B:473:THR:CB	4:B:977:GLY:H	2.24	0.47
4:B:498:VAL:HG13	4:B:510:LEU:HA	1.95	0.47
4:B:503:ARG:HA	4:B:882:GLY:O	2.14	0.47
4:B:538:GLU:HB3	4:B:835:LEU:HD11	1.95	0.47
4:B:597:ARG:O	4:B:788:VAL:HA	2.14	0.47
4:B:774:LEU:HD12	4:B:790:LEU:HB2	1.95	0.47
4:B:922:ILE:HG21	4:B:936:GLU:HB3	1.95	0.47
4:B:1040:TYR:CE1	4:B:1047:ILE:HD12	2.48	0.47
4:B:1077:VAL:HG23	4:B:1077:VAL:O	2.14	0.47
4:B:1129:TYR:HD1	4:B:1129:TYR:HA	1.35	0.47
5:C:201:ASN:HD21	5:C:203:SER:N	2.12	0.47
6:E:172:ASP:O	6:E:173:GLN:C	2.52	0.47
6:E:519:TYR:O	6:E:519:TYR:CG	2.67	0.47
6:E:577:THR:N	6:E:585:THR:O	2.39	0.47
8:G:324:LYS:O	8:G:325:VAL:C	2.47	0.47
8:G:330:SER:CB	8:G:333:GLU:OE1	2.37	0.47
9:X:152:PHE:HA	9:X:155:ILE:HB	1.95	0.47
9:X:169:THR:CG2	9:X:211:THR:HA	2.44	0.47
9:X:188:VAL:HG13	9:X:192:ARG:HB2	1.97	0.47
9:Y:36:PHE:CG	9:Y:91:HIS:ND1	2.78	0.47
9:Y:123:LEU:HD12	9:Y:123:LEU:O	2.14	0.47
9:Y:206:HIS:HE1	9:Y:211:THR:CG2	2.26	0.47
1:1:122:DC:H6	1:1:122:DC:H2'	1.41	0.47
3:A:136:VAL:O	3:A:136:VAL:HG13	2.07	0.47
3:A:180:ASN:ND2	3:A:182:LEU:CB	2.70	0.47
3:A:257:LEU:HD12	3:A:258:ASP:N	2.29	0.47
3:A:272:VAL:HA	3:A:275:TYR:HB3	1.95	0.47
3:A:548:ASP:O	3:A:549:ASP:C	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:610:VAL:C	3:A:632:GLY:HA3	2.35	0.47
3:A:791:ILE:H	3:A:791:ILE:CD1	2.22	0.47
3:A:815:VAL:C	3:A:816:ASP:OD1	2.52	0.47
4:B:61:SER:O	4:B:65:LEU:HB3	2.14	0.47
4:B:87:GLU:C	4:B:89:GLU:H	2.16	0.47
4:B:124:MET:HA	6:E:518:TYR:CE1	2.49	0.47
4:B:446:ALA:HA	4:B:992:ASP:O	2.15	0.47
4:B:522:VAL:HB	4:B:862:GLY:N	2.30	0.47
4:B:527:GLU:HB2	4:B:530:PRO:HG3	1.96	0.47
4:B:687:LYS:HD3	4:B:688:PRO:HD2	1.96	0.47
4:B:772:GLN:HB3	4:B:791:LEU:CD1	2.34	0.47
4:B:884:VAL:HG13	4:B:897:CYS:HB3	1.96	0.47
4:B:913:LYS:HB2	4:B:915:LYS:CG	2.34	0.47
4:B:983:GLU:CD	4:B:984:ASP:H	2.18	0.47
4:B:1124:GLU:HA	4:B:1127:MET:HE2	1.96	0.47
5:D:82:MET:C	5:D:84:GLU:OE1	2.53	0.47
6:E:41:LYS:NZ	6:E:53:GLU:HB2	2.30	0.47
6:E:41:LYS:HB2	6:E:56:GLY:HA2	1.96	0.47
6:E:147:VAL:CG2	6:E:152:ASN:HB3	2.44	0.47
6:E:228:LEU:O	6:E:229:ARG:C	2.50	0.47
6:E:286:LEU:HD13	6:E:302:GLU:CG	2.44	0.47
6:E:302:GLU:HG3	6:E:303:LYS:N	2.24	0.47
6:E:370:ILE:O	6:E:371:HIS:ND1	2.47	0.47
6:E:456:LEU:HD23	6:E:468:PHE:CZ	2.49	0.47
8:G:185:GLN:O	8:G:188:SER:HB2	2.14	0.47
8:G:185:GLN:OE1	8:G:185:GLN:HA	2.13	0.47
8:G:378:HIS:CB	9:X:57:VAL:HG21	2.38	0.47
9:X:34:ILE:HB	9:X:92:ALA:CB	2.44	0.47
9:X:98:VAL:HG13	9:X:100:LEU:HD11	1.95	0.47
9:Y:35:PHE:CZ	9:Y:90:TYR:O	2.68	0.47
9:Y:90:TYR:O	9:Y:91:HIS:C	2.52	0.47
9:Y:169:THR:CG2	9:Y:211:THR:HA	2.44	0.47
1:1:75:DA:C4	1:1:76:DC:C6	3.02	0.47
1:1:86:DG:C4	1:1:87:DA:N7	2.82	0.47
1:1:90:DA:C5	1:1:91:DT:C4	3.03	0.47
2:2:27:DA:H2"	8:G:237:GLU:OE1	2.15	0.47
2:2:30:DG:C6	2:2:31:DA:C8	3.03	0.47
3:A:31:ILE:O	3:A:31:ILE:HG13	2.09	0.47
3:A:67:PHE:CB	3:A:99:THR:HA	2.44	0.47
3:A:165:LEU:HD13	3:A:165:LEU:HA	1.28	0.47
3:A:188:ASP:C	3:A:189:LYS:HG2	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:341:ASN:O	3:A:344:GLU:N	2.48	0.47
3:A:371:VAL:O	3:A:372:ALA:C	2.50	0.47
3:A:514:GLN:N	3:A:514:GLN:CD	2.68	0.47
3:A:524:VAL:CG1	3:A:525:ASP:N	2.77	0.47
3:A:698:TYR:CE2	6:E:458:PRO:HB3	2.48	0.47
3:A:727:ARG:NH2	3:A:832:ALA:N	2.61	0.47
3:A:739:GLU:CD	3:A:740:ILE:N	2.68	0.47
3:A:889:VAL:N	3:A:890:PRO:HD3	2.29	0.47
3:A:893:MET:HE2	4:B:163:PHE:CE2	2.50	0.47
3:A:1044:ASP:O	3:A:1048:ARG:N	2.45	0.47
4:B:53:VAL:CG2	4:B:164:ARG:HG2	2.44	0.47
4:B:109:VAL:O	4:B:110:VAL:C	2.52	0.47
4:B:133:ASN:HD22	4:B:135:SER:HB3	1.79	0.47
4:B:149:ASP:HB3	4:B:155:ILE:CD1	2.45	0.47
4:B:234:LYS:O	4:B:235:LEU:C	2.52	0.47
4:B:271:GLU:HG3	4:B:272:ILE:HG23	1.97	0.47
4:B:271:GLU:HA	4:B:274:LYS:HG2	1.96	0.47
4:B:331:THR:C	4:B:332:MET:HE2	2.35	0.47
4:B:366:ARG:HH21	4:B:377:LEU:HD23	1.78	0.47
4:B:498:VAL:CG1	4:B:510:LEU:HA	2.44	0.47
4:B:516:THR:OG1	4:B:870:VAL:HG23	2.15	0.47
4:B:527:GLU:O	4:B:530:PRO:CD	2.61	0.47
4:B:548:GLN:HB2	4:B:753:PRO:CB	2.44	0.47
4:B:743:GLU:O	4:B:744:PHE:HD1	1.97	0.47
4:B:903:SER:CA	4:B:906:ALA:HA	2.36	0.47
4:B:925:GLY:C	4:B:933:PHE:HB3	2.35	0.47
4:B:1063:LEU:HD23	4:B:1064:GLY:N	2.30	0.47
5:C:57:ARG:NH2	5:C:164:LEU:O	2.46	0.47
5:C:82:MET:C	5:C:84:GLU:OE1	2.53	0.47
5:C:86:ILE:N	5:C:125:GLN:HE22	2.13	0.47
6:E:17:ALA:CB	6:E:25:TRP:CH2	2.98	0.47
6:E:114:HIS:NE2	6:E:116:TRP:HB2	2.28	0.47
6:E:320:GLY:C	6:E:321:ARG:NE	2.68	0.47
6:E:324:VAL:HG13	6:E:329:ARG:N	2.30	0.47
6:E:380:ALA:O	6:E:381:ILE:C	2.46	0.47
8:G:291:GLY:C	8:G:293:GLU:N	2.67	0.47
8:G:314:SER:O	8:G:315:LYS:C	2.53	0.47
8:G:365:ILE:N	8:G:365:ILE:CD1	2.76	0.47
8:G:388:TYR:O	8:G:388:TYR:CD2	2.67	0.47
9:X:171:ASP:C	9:X:172:LEU:HG	2.34	0.47
9:Y:49:LYS:H	9:Y:99:GLU:C	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:167:GLY:HA3	9:Y:213:HIS:O	2.13	0.47
1:1:62:DT:OP2	1:1:62:DT:H71	2.14	0.47
1:1:71:DT:H3	2:2:56:DG:H1	1.62	0.47
1:1:75:DA:N1	2:2:52:DA:C2	2.83	0.47
1:1:76:DC:N3	1:1:77:DA:C5	2.83	0.47
1:1:112:DG:C8	1:1:112:DG:OP2	2.66	0.47
3:A:101:LEU:CA	3:A:109:ILE:HA	2.40	0.47
3:A:112:GLN:HG3	3:A:361:PRO:HG2	1.95	0.47
3:A:167:PRO:HB3	3:A:267:TYR:CE1	2.50	0.47
3:A:180:ASN:HD21	3:A:182:LEU:C	2.09	0.47
3:A:452:ARG:HD3	3:A:479:TYR:HE2	1.79	0.47
3:A:464:ARG:NE	3:A:529:VAL:HG13	2.29	0.47
3:A:578:LEU:O	3:A:578:LEU:CG	2.50	0.47
3:A:720:GLU:HB3	3:A:840:VAL:HG12	1.96	0.47
3:A:1025:LEU:CD1	3:A:1034:LEU:CD1	2.93	0.47
3:A:1028:PHE:HD1	6:E:438:ARG:HB2	1.56	0.47
4:B:366:ARG:NH2	4:B:369:ARG:HE	2.12	0.47
4:B:366:ARG:NE	4:B:369:ARG:NH2	2.63	0.47
4:B:523:VAL:HG11	4:B:859:VAL:HA	1.97	0.47
4:B:524:ARG:HD2	4:B:540:ILE:HG13	1.96	0.47
4:B:564:ILE:CG1	4:B:830:LEU:HD11	2.44	0.47
4:B:639:VAL:O	4:B:639:VAL:HG13	2.14	0.47
5:C:5:GLN:HB2	5:C:26:GLU:HG3	1.97	0.47
5:C:9:VAL:CG1	5:C:22:LYS:CG	2.88	0.47
5:D:21:SER:O	5:D:22:LYS:C	2.48	0.47
6:E:285:ARG:HG2	6:E:286:LEU:N	2.29	0.47
8:G:95:LEU:HD23	8:G:99:GLU:HB2	1.97	0.47
8:G:206:PHE:O	8:G:210:ALA:N	2.43	0.47
9:X:95:PHE:CD2	9:X:96:THR:N	2.82	0.47
9:Y:43:ARG:CD	9:Y:105:ILE:HG13	2.45	0.47
1:1:68:DT:H2'	1:1:69:DA:C8	2.50	0.47
1:1:75:DA:C2	1:1:76:DC:C2	3.03	0.47
1:1:78:DA:N9	1:1:79:DA:C8	2.83	0.47
1:1:80:DA:C2	1:1:81:DT:H73	2.49	0.47
1:1:89:DA:C5	2:2:37:DT:O4	2.68	0.47
1:1:93:DT:C2'	1:1:94:DT:H71	2.45	0.47
1:1:93:DT:C6	1:1:94:DT:H71	2.49	0.47
1:1:94:DT:C4	2:2:32:DA:N6	2.83	0.47
2:2:36:DT:O3'	2:2:37:DT:H2'	2.15	0.47
2:2:67:DA:C4	2:2:67:DA:O5'	2.68	0.47
3:A:72:TYR:HB2	3:A:95:MET:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:131:ASN:C	3:A:133:ALA:H	2.18	0.47
3:A:147:VAL:O	3:A:147:VAL:HG13	2.14	0.47
3:A:147:VAL:HG22	3:A:148:TYR:N	2.29	0.47
3:A:153:ILE:HA	3:A:158:ARG:O	2.14	0.47
3:A:162:SER:HA	3:A:176:GLU:CA	2.40	0.47
3:A:224:GLU:O	3:A:226:GLU:CD	2.53	0.47
3:A:278:ASN:HA	3:A:283:LEU:H	1.79	0.47
3:A:305:ILE:C	3:A:307:LEU:N	2.64	0.47
3:A:349:GLU:O	3:A:350:ARG:C	2.52	0.47
3:A:370:LEU:O	3:A:372:ALA:N	2.48	0.47
3:A:370:LEU:HD23	3:A:370:LEU:HA	1.39	0.47
3:A:429:ARG:NH2	3:A:481:THR:HG22	2.29	0.47
3:A:500:ASN:O	3:A:502:TYR:N	2.48	0.47
3:A:512:TYR:CD2	3:A:513:ARG:NE	2.83	0.47
3:A:515:GLU:OE1	3:A:516:PHE:N	2.48	0.47
3:A:520:THR:HA	3:A:521:PRO:HD3	1.64	0.47
3:A:612:GLY:HA2	3:A:632:GLY:HA2	1.96	0.47
3:A:704:ILE:HD13	3:A:704:ILE:HA	1.54	0.47
3:A:768:ILE:HD13	3:A:768:ILE:HA	1.56	0.47
3:A:788:LEU:O	3:A:789:ARG:C	2.51	0.47
3:A:990:ILE:O	3:A:990:ILE:HG23	2.13	0.47
3:A:1015:GLN:CG	6:E:357:SER:OG	2.62	0.47
3:A:1021:GLU:HG3	6:E:434:PRO:HA	1.96	0.47
3:A:1036:GLU:C	3:A:1036:GLU:OE1	2.53	0.47
4:B:26:THR:H	4:B:26:THR:HG23	1.42	0.47
4:B:59:PRO:HA	4:B:60:PRO:HD2	1.77	0.47
4:B:75:ALA:O	4:B:76:THR:C	2.52	0.47
4:B:79:ARG:O	4:B:85:ILE:HG12	2.15	0.47
4:B:107:ASP:HB3	4:B:354:ASP:CA	2.45	0.47
4:B:230:LYS:HD2	4:B:231:THR:N	2.30	0.47
4:B:252:LYS:CE	4:B:255:GLU:OE1	2.63	0.47
4:B:520:GLY:CA	4:B:764:ARG:HH21	2.28	0.47
4:B:604:LEU:HD13	4:B:631:TRP:CE3	2.49	0.47
4:B:645:LEU:CA	4:B:662:LYS:HD3	2.45	0.47
4:B:664:ILE:HG23	4:B:664:ILE:HD12	1.55	0.47
4:B:704:ASP:OD1	4:B:704:ASP:N	2.47	0.47
4:B:726:GLN:HG3	4:B:728:VAL:C	2.35	0.47
4:B:913:LYS:CE	4:B:914:PRO:HD2	2.44	0.47
4:B:939:GLN:HE22	4:B:941:VAL:CB	2.28	0.47
4:B:1111:SER:O	4:B:1112:HIS:C	2.51	0.47
4:B:1235:LEU:O	4:B:1236:LYS:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:56:VAL:O	5:C:57:ARG:NH2	2.47	0.47
5:C:210:LEU:HA	5:C:210:LEU:HD23	1.28	0.47
5:C:220:LEU:HD23	5:D:4:PHE:CZ	2.49	0.47
5:D:94:ALA:HB1	5:D:96:ILE:HD11	1.96	0.47
5:D:168:SER:OG	5:D:169:ILE:HG12	2.14	0.47
6:E:31:PRO:HD2	6:E:32:ASN:H	1.78	0.47
6:E:67:LYS:O	6:E:68:ASP:C	2.52	0.47
6:E:95:GLU:CG	6:E:96:SER:N	2.68	0.47
6:E:279:VAL:HG12	6:E:309:ALA:HB1	1.95	0.47
6:E:279:VAL:HG12	6:E:309:ALA:CB	2.44	0.47
6:E:430:LEU:HB3	6:E:473:MET:CE	2.45	0.47
6:E:486:GLU:HG2	6:E:487:ALA:N	2.15	0.47
6:E:524:ASN:HB2	6:E:553:HIS:ND1	2.29	0.47
6:E:565:GLU:O	6:E:565:GLU:CD	2.53	0.47
6:E:598:GLN:C	6:E:602:ILE:HD12	2.35	0.47
7:F:38:ARG:O	7:F:39:ALA:C	2.46	0.47
8:G:119:ARG:NH2	8:G:123:LYS:NZ	2.62	0.47
8:G:141:LEU:HD12	8:G:141:LEU:HA	1.47	0.47
8:G:179:SER:HB3	8:G:182:ASP:HB2	1.97	0.47
8:G:191:LEU:HD12	8:G:191:LEU:HA	1.35	0.47
8:G:193:ARG:HH11	8:G:193:ARG:HG2	1.80	0.47
8:G:285:SER:C	8:G:287:GLU:H	2.17	0.47
8:G:286:LEU:C	8:G:287:GLU:OE1	2.52	0.47
8:G:348:MET:O	8:G:348:MET:SD	2.73	0.47
9:X:46:PHE:O	9:X:47:LEU:C	2.53	0.47
9:X:52:VAL:HG13	9:X:98:VAL:CG2	2.41	0.47
9:X:148:ARG:HH22	9:Y:143:ARG:NE	2.07	0.47
9:X:170:ILE:CG2	9:X:171:ASP:N	2.77	0.47
9:Y:27:THR:HG23	9:Y:98:VAL:HB	1.97	0.47
9:Y:136:MET:HA	9:Y:139:THR:HG23	1.95	0.47
9:Y:203:ILE:HB	9:Y:211:THR:H	1.80	0.47
1:1:72:DT:H73	9:X:187:ARG:NH1	2.26	0.47
1:1:74:DT:C2	2:2:53:DT:C2	3.03	0.47
1:1:101:DT:C4	1:1:102:DA:C5	3.03	0.47
2:2:42:DT:C5	2:2:43:DG:C4	3.02	0.47
3:A:48:GLU:CG	3:A:49:GLU:N	2.77	0.47
3:A:58:ASP:HB2	3:A:352:THR:HG23	1.96	0.47
3:A:81:VAL:CG2	3:A:82:GLU:H	2.19	0.47
3:A:250:VAL:HG13	3:A:251:LEU:N	2.29	0.47
3:A:564:VAL:H	3:A:564:VAL:HG22	1.36	0.47
3:A:607:ARG:C	3:A:608:VAL:HG13	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:739:GLU:OE2	3:A:740:ILE:N	2.47	0.47
3:A:808:ASN:C	3:A:810:GLU:OE1	2.53	0.47
4:B:20:ALA:O	4:B:21:PHE:C	2.51	0.47
4:B:24:TYR:O	4:B:25:GLY:O	2.32	0.47
4:B:220:ILE:HD12	4:B:220:ILE:HA	1.35	0.47
4:B:224:PRO:CD	4:B:235:LEU:HD13	2.45	0.47
4:B:455:PHE:CA	4:B:481:TRP:HE3	2.16	0.47
4:B:462:GLN:C	4:B:472:THR:HG21	2.35	0.47
4:B:520:GLY:CA	4:B:806:GLU:HA	2.45	0.47
4:B:666:CYS:C	4:B:668:ASN:N	2.68	0.47
4:B:763:GLY:O	4:B:801:GLN:HG2	2.13	0.47
4:B:901:ARG:O	4:B:903:SER:N	2.48	0.47
4:B:1014:ILE:O	4:B:1017:LEU:N	2.48	0.47
4:B:1145:VAL:CG1	4:B:1146:ARG:N	2.74	0.47
5:C:149:ARG:HD3	5:C:154:GLY:N	2.30	0.47
5:C:178:TYR:N	5:C:178:TYR:CD1	2.80	0.47
5:C:191:LYS:C	5:C:192:ASP:CG	2.73	0.47
5:D:20:TYR:CD1	5:D:199:TRP:CZ3	3.03	0.47
6:E:42:PRO:C	6:E:57:LEU:HD23	2.33	0.47
6:E:118:LEU:C	6:E:120:GLY:N	2.68	0.47
6:E:134:ARG:N	6:E:137:GLU:HB3	2.23	0.47
6:E:202:LEU:HA	6:E:205:GLU:CD	2.35	0.47
6:E:216:ALA:O	6:E:219:GLN:HB2	2.14	0.47
6:E:400:ASN:HD21	6:E:402:LYS:HB2	1.80	0.47
6:E:530:GLY:C	6:E:533:LYS:HG2	2.36	0.47
6:E:595:GLU:CG	6:E:596:ASP:H	2.16	0.47
7:F:28:ARG:O	7:F:32:THR:HG23	2.15	0.47
7:F:39:ALA:HA	7:F:42:ARG:HB2	1.97	0.47
8:G:103:LEU:O	8:G:106:LYS:N	2.48	0.47
8:G:110:LEU:CD1	8:G:148:LEU:HD12	2.45	0.47
8:G:131:SER:O	8:G:135:GLU:OE1	2.33	0.47
8:G:249:LEU:HD21	8:G:265:ARG:HH11	1.80	0.47
9:X:130:ILE:HD11	9:Y:130:ILE:HG21	1.96	0.47
9:Y:54:LEU:CD1	9:Y:92:ALA:HA	2.39	0.47
9:Y:126:LEU:O	9:Y:130:ILE:HG12	2.15	0.47
1:1:59:DT:C4	1:1:60:DT:O4	2.68	0.47
1:1:101:DT:C4	1:1:102:DA:C6	3.03	0.47
1:1:113:DT:C2	1:1:114:DC:N3	2.83	0.47
2:2:38:DT:N3	2:2:39:DT:C5	2.82	0.47
2:2:58:DA:C5	2:2:59:DG:C5	3.03	0.47
3:A:260:ARG:O	3:A:261:PHE:CG	2.68	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:320:LEU:HD22	3:A:426:HIS:HA	1.96	0.47
3:A:423:HIS:HA	3:A:424:PRO:HD3	1.62	0.47
3:A:464:ARG:HE	3:A:529:VAL:HG13	1.80	0.47
3:A:613:GLN:O	3:A:616:THR:HG23	2.15	0.47
3:A:668:VAL:C	3:A:669:LEU:HG	2.31	0.47
3:A:685:ASN:HB3	3:A:978:TYR:HD1	1.80	0.47
3:A:697:ASN:O	3:A:885:ASN:ND2	2.48	0.47
3:A:872:PRO:HA	3:A:961:ASP:CA	2.27	0.47
3:A:893:MET:HE3	4:B:163:PHE:CE2	2.49	0.47
3:A:939:ALA:O	3:A:940:ARG:C	2.52	0.47
3:A:942:GLU:OE2	3:A:942:GLU:N	2.48	0.47
3:A:1005:PRO:HD2	6:E:353:ARG:O	2.15	0.47
4:B:151:GLN:NE2	4:B:153:GLU:N	2.63	0.47
4:B:162:ASN:OD1	4:B:162:ASN:C	2.54	0.47
4:B:169:VAL:O	4:B:171:GLU:N	2.48	0.47
4:B:203:VAL:HG22	4:B:1200:ALA:O	2.14	0.47
4:B:367:THR:HA	4:B:370:THR:HG23	1.97	0.47
4:B:440:LYS:CE	4:B:998:VAL:HG22	2.44	0.47
4:B:491:PRO:HA	4:B:895:ARG:HH21	1.80	0.47
4:B:495:GLU:N	4:B:513:THR:HG22	2.30	0.47
4:B:496:LEU:HA	4:B:511:ALA:CB	2.45	0.47
4:B:562:TYR:O	4:B:564:ILE:HG12	2.15	0.47
4:B:645:LEU:N	4:B:662:LYS:HD3	2.30	0.47
4:B:645:LEU:N	4:B:662:LYS:NZ	2.63	0.47
4:B:710:PRO:HB3	4:B:720:THR:C	2.36	0.47
4:B:924:ALA:HB2	4:B:935:GLU:O	2.15	0.47
4:B:1129:TYR:O	4:B:1130:GLN:NE2	2.48	0.47
4:B:1225:ILE:HB	4:B:1226:GLU:OE2	2.15	0.47
5:C:44:LEU:HD23	5:C:44:LEU:HA	1.24	0.47
5:C:205:SER:OG	5:C:206:PRO:N	2.44	0.47
6:E:97:ARG:HG3	6:E:100:ARG:HH21	1.80	0.47
6:E:230:VAL:O	6:E:233:ASN:CB	2.62	0.47
6:E:259:MET:SD	6:E:259:MET:C	2.93	0.47
6:E:379:MET:O	6:E:383:LEU:HD23	2.15	0.47
6:E:540:ASP:C	6:E:540:ASP:OD1	2.45	0.47
6:E:580:GLU:H	6:E:583:SER:CB	2.25	0.47
6:E:581:ASP:C	6:E:583:SER:N	2.68	0.47
6:E:588:TYR:C	6:E:590:TYR:H	2.18	0.47
6:E:591:ARG:O	6:E:592:ARG:HB2	2.14	0.47
7:F:30:ARG:HD2	7:F:30:ARG:HA	1.46	0.47
8:G:77:TYR:CE1	8:G:78:THR:CG2	2.86	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:206:PHE:HB2	8:G:210:ALA:HB2	1.96	0.47
9:Y:43:ARG:HD2	9:Y:79:SER:HB3	1.96	0.47
1:1:75:DA:C6	2:2:52:DA:N1	2.82	0.47
1:1:78:DA:C2'	1:1:79:DA:C8	2.98	0.47
1:1:100:DA:C8	1:1:100:DA:OP2	2.68	0.47
1:1:116:DC:H1'	1:1:117:DG:O4'	2.15	0.47
3:A:159:ARG:NH1	3:A:161:TYR:CE1	2.79	0.47
3:A:392:PRO:O	3:A:393:LEU:C	2.39	0.47
3:A:508:VAL:O	3:A:519:THR:OG1	2.14	0.47
3:A:630:GLN:O	3:A:631:LYS:O	2.33	0.47
3:A:798:ASP:OD2	3:A:799:VAL:HG23	2.15	0.47
3:A:1046:GLN:C	3:A:1046:GLN:CD	2.73	0.47
4:B:250:HIS:O	4:B:251:PRO:C	2.51	0.47
4:B:443:LYS:HG3	4:B:997:LEU:HB3	1.97	0.47
4:B:447:SER:HB3	4:B:991:GLY:N	2.28	0.47
4:B:456:ALA:H	4:B:481:TRP:HZ3	1.62	0.47
4:B:533:SER:HB3	4:B:535:ARG:CZ	2.45	0.47
4:B:656:ALA:O	4:B:668:ASN:OD1	2.33	0.47
4:B:675:THR:O	4:B:681:LEU:HB2	2.14	0.47
4:B:725:ILE:CD1	4:B:736:LEU:HB3	2.43	0.47
4:B:766:ILE:HA	4:B:799:ILE:HD13	1.97	0.47
4:B:805:GLN:NE2	4:B:806:GLU:HG2	2.30	0.47
4:B:1023:PRO:HD2	4:B:1024:LYS:HG2	1.97	0.47
5:D:74:ASP:OD1	5:D:75:VAL:HG12	2.15	0.47
5:D:186:ASP:O	5:D:188:SER:N	2.47	0.47
5:D:203:SER:C	5:D:204:ILE:HG12	2.35	0.47
6:E:128:LEU:C	6:E:227:ARG:HH12	2.18	0.47
6:E:148:LEU:O	6:E:149:SER:C	2.53	0.47
6:E:302:GLU:OE2	6:E:302:GLU:HA	2.13	0.47
6:E:488:ARG:HA	6:E:488:ARG:HD2	1.66	0.47
6:E:504:ARG:NE	6:E:504:ARG:CA	2.76	0.47
8:G:185:GLN:H	8:G:185:GLN:HG2	1.32	0.47
8:G:267:GLU:O	8:G:268:MET:SD	2.72	0.47
9:X:110:GLN:O	9:X:113:LYS:HB3	2.15	0.47
9:Y:52:VAL:HG13	9:Y:95:PHE:H	1.79	0.47
9:Y:52:VAL:HA	9:Y:95:PHE:HD2	1.80	0.47
2:2:6:DA:H3'	2:2:7:DT:C7	2.36	0.46
2:2:32:DA:H2"	2:2:33:DA:O5'	2.16	0.46
2:2:47:DT:C2	2:2:48:DT:C5	3.04	0.46
2:2:59:DG:H8	2:2:59:DG:C5'	2.26	0.46
2:2:60:DC:H2"	2:2:61:DT:OP1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:235:LEU:HB2	3:A:250:VAL:CA	2.32	0.46
3:A:252:GLY:C	3:A:254:GLN:N	2.66	0.46
3:A:527:VAL:HG13	3:A:527:VAL:O	2.12	0.46
3:A:557:SER:O	3:A:558:ASN:C	2.51	0.46
3:A:713:ILE:O	3:A:714:TYR:HB2	2.14	0.46
3:A:828:LEU:HD13	3:A:832:ALA:CA	2.44	0.46
3:A:1081:GLY:O	6:E:16:LEU:HA	2.15	0.46
4:B:60:PRO:C	4:B:62:LYS:N	2.69	0.46
4:B:68:ALA:O	4:B:70:GLU:N	2.47	0.46
4:B:95:ILE:CG1	4:B:146:LEU:HD13	2.45	0.46
4:B:169:VAL:H	4:B:169:VAL:HG22	1.21	0.46
4:B:197:THR:H	4:B:197:THR:HG23	1.36	0.46
4:B:280:VAL:CG2	4:B:281:VAL:H	2.27	0.46
4:B:301:TRP:HA	4:B:308:MET:N	2.29	0.46
4:B:385:MET:SD	4:B:406:GLN:CA	3.03	0.46
4:B:487:VAL:HG21	4:B:988:VAL:O	2.15	0.46
4:B:504:VAL:HG13	4:B:508:GLY:HA3	1.97	0.46
4:B:637:HIS:O	4:B:684:VAL:O	2.34	0.46
4:B:645:LEU:CB	4:B:662:LYS:HA	2.41	0.46
4:B:700:VAL:CA	4:B:703:ARG:H	2.28	0.46
4:B:798:GLU:CD	4:B:798:GLU:H	2.19	0.46
4:B:1010:GLY:C	4:B:1012:PRO:HD2	2.36	0.46
4:B:1182:ILE:HG13	4:B:1183:THR:HG23	1.97	0.46
5:C:168:SER:OG	5:C:169:ILE:HG12	2.14	0.46
5:C:185:ALA:O	5:C:186:ASP:C	2.53	0.46
5:D:57:ARG:NH2	5:D:164:LEU:O	2.48	0.46
5:D:86:ILE:N	5:D:125:GLN:HE22	2.13	0.46
5:D:146:LYS:O	5:D:148:TYR:HE1	1.98	0.46
5:D:171:MET:SD	5:D:172:PRO:CA	3.03	0.46
5:D:181:GLU:OE2	5:D:183:VAL:HG23	2.15	0.46
6:E:255:ASP:CG	6:E:256:LEU:HD12	2.35	0.46
6:E:357:SER:HA	6:E:475:VAL:O	2.15	0.46
6:E:364:VAL:N	6:E:468:PHE:CE1	2.83	0.46
6:E:370:ILE:C	6:E:371:HIS:ND1	2.68	0.46
6:E:383:LEU:HA	6:E:383:LEU:HD13	1.47	0.46
6:E:567:ASP:N	6:E:567:ASP:OD1	2.45	0.46
8:G:117:ARG:HB3	8:G:129:ARG:HE	1.80	0.46
8:G:140:PRO:HG2	8:G:143:ALA:HB3	1.98	0.46
9:X:112:LEU:HG	9:X:119:SER:HA	1.97	0.46
9:Y:31:ASN:N	9:Y:94:ALA:O	2.48	0.46
9:Y:123:LEU:HD12	9:Y:126:LEU:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:58:DA:C4	1:1:59:DT:N3	2.83	0.46
1:1:87:DA:H2"	1:1:88:DA:O5'	2.15	0.46
1:1:95:DT:H2"	1:1:96:DC:C6	2.51	0.46
2:2:6:DA:H8	2:2:6:DA:O5'	1.98	0.46
3:A:167:PRO:HB3	3:A:267:TYR:CZ	2.51	0.46
3:A:299:ALA:O	3:A:300:ALA:C	2.50	0.46
3:A:332:LEU:HA	3:A:332:LEU:HD12	1.40	0.46
3:A:520:THR:HG1	3:A:522:GLU:CD	2.10	0.46
3:A:552:ARG:NH1	3:A:892:ARG:CD	2.79	0.46
3:A:556:GLY:CA	3:A:559:MET:HE2	2.43	0.46
3:A:610:VAL:HG11	3:A:636:ARG:HH21	1.80	0.46
3:A:901:CYS:HB3	3:A:975:GLY:HA3	1.98	0.46
3:A:993:ARG:HD3	6:E:355:ASP:HB3	1.96	0.46
4:B:36:LEU:C	4:B:38:ASP:N	2.62	0.46
4:B:82:ARG:HD2	4:B:84:GLU:OE2	2.15	0.46
4:B:172:TYR:O	4:B:173:ILE:C	2.51	0.46
4:B:197:THR:HG22	4:B:324:GLY:HA3	1.97	0.46
4:B:221:PRO:C	4:B:222:VAL:HG13	2.35	0.46
4:B:244:VAL:HG21	4:B:262:THR:HB	1.97	0.46
4:B:646:LEU:N	4:B:662:LYS:HZ3	2.13	0.46
4:B:797:LEU:CB	4:B:832:LEU:HD11	2.40	0.46
4:B:1018:LEU:O	4:B:1197:ILE:HG12	2.15	0.46
5:C:23:PHE:HZ	5:C:206:PRO:HB3	1.81	0.46
5:C:73:GLU:OE2	5:C:129:THR:N	2.48	0.46
5:C:74:ASP:OD1	5:C:75:VAL:HG12	2.15	0.46
5:C:166:ILE:HG23	5:C:167:ASP:N	2.25	0.46
5:C:211:SER:O	5:C:212:SER:C	2.54	0.46
6:E:152:ASN:HA	6:E:156:LEU:CB	2.42	0.46
6:E:257:ARG:HB2	6:E:273:ASN:HD21	1.78	0.46
6:E:266:ARG:NH1	8:G:284:ILE:HD11	2.31	0.46
6:E:277:ARG:NH2	8:G:228:THR:HA	2.29	0.46
6:E:316:ASN:C	6:E:318:ARG:N	2.68	0.46
6:E:386:PRO:C	6:E:388:VAL:N	2.65	0.46
6:E:409:SER:OG	6:E:410:ARG:NH2	2.47	0.46
6:E:533:LYS:N	6:E:556:VAL:HG13	2.30	0.46
6:E:540:ASP:O	6:E:542:ILE:N	2.48	0.46
8:G:115:ARG:HA	8:G:118:GLU:HG3	1.97	0.46
8:G:126:ARG:NE	8:G:126:ARG:HA	2.31	0.46
8:G:249:LEU:CD2	8:G:265:ARG:NH1	2.73	0.46
9:X:197:LEU:HA	9:X:203:ILE:O	2.16	0.46
9:Y:47:LEU:N	9:Y:100:LEU:HD12	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:169:THR:HG21	9:Y:211:THR:HA	1.96	0.46
1:1:79:DA:N9	1:1:80:DA:C2	2.84	0.46
2:2:28:DC:H3'	2:2:28:DC:H6	1.80	0.46
2:2:33:DA:C2	2:2:34:DA:N3	2.83	0.46
2:2:54:DA:C6	2:2:55:DA:C2	3.03	0.46
3:A:129:ILE:C	3:A:130:ILE:CG2	2.83	0.46
3:A:183:VAL:HG23	3:A:197:VAL:HB	1.97	0.46
3:A:274:ARG:NH1	3:A:285:VAL:HB	2.30	0.46
3:A:277:LEU:HD23	3:A:277:LEU:HA	1.57	0.46
3:A:301:VAL:O	3:A:302:ASP:C	2.53	0.46
3:A:431:CYS:SG	3:A:535:VAL:HA	2.55	0.46
3:A:502:TYR:C	3:A:503:ILE:O	2.52	0.46
3:A:616:THR:CB	3:A:633:GLN:OE1	2.64	0.46
3:A:734:GLU:HG2	3:A:772:LYS:CE	2.41	0.46
3:A:763:VAL:HG23	3:A:764:GLU:N	2.25	0.46
3:A:789:ARG:CZ	3:A:795:LYS:HD3	2.45	0.46
3:A:893:MET:HE2	4:B:163:PHE:HE2	1.79	0.46
3:A:905:TRP:O	3:A:909:THR:HG23	2.16	0.46
4:B:31:VAL:O	4:B:32:MET:C	2.51	0.46
4:B:93:LYS:NZ	4:B:375:ASP:HB2	2.18	0.46
4:B:95:ILE:CG1	4:B:146:LEU:CD1	2.94	0.46
4:B:99:ASN:HB3	4:B:423:LEU:HA	1.95	0.46
4:B:106:LYS:HE3	4:B:138:ARG:CD	2.38	0.46
4:B:186:THR:C	4:B:188:LEU:H	2.19	0.46
4:B:330:LEU:HA	4:B:330:LEU:HD23	1.35	0.46
4:B:410:ILE:O	4:B:411:TYR:C	2.53	0.46
4:B:449:LEU:N	4:B:990:ARG:HH11	2.12	0.46
4:B:630:LEU:HD13	4:B:741:VAL:CG1	2.43	0.46
4:B:809:ALA:O	4:B:812:LEU:N	2.39	0.46
4:B:1226:GLU:O	4:B:1227:GLY:C	2.48	0.46
5:C:40:LEU:HA	5:C:40:LEU:HD23	1.38	0.46
5:C:171:MET:SD	5:C:172:PRO:CA	3.03	0.46
5:C:211:SER:OG	5:D:226:ASP:N	2.49	0.46
5:D:23:PHE:HB2	5:D:196:LEU:HB3	1.97	0.46
5:D:57:ARG:HB2	5:D:139:GLU:O	2.16	0.46
5:D:159:THR:CG2	5:D:163:PHE:HB3	2.46	0.46
5:D:201:ASN:OD1	5:D:203:SER:N	2.44	0.46
6:E:402:LYS:CE	8:G:390:ARG:NH2	2.78	0.46
6:E:615:TYR:O	6:E:617:LYS:N	2.48	0.46
9:Y:34:ILE:HG22	9:Y:34:ILE:O	2.16	0.46
9:Y:56:ARG:HB2	9:Y:90:TYR:CG	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:78:LEU:C	9:Y:80:LEU:H	2.18	0.46
9:Y:143:ARG:HA	9:Y:148:ARG:HH22	1.74	0.46
1:1:67:DC:H3'	1:1:68:DT:C7	2.45	0.46
1:1:74:DT:H2"	1:1:75:DA:H2'	1.98	0.46
1:1:97:DT:C4	1:1:98:DG:O6	2.69	0.46
1:1:114:DC:H1'	1:1:115:DA:C6	2.51	0.46
2:2:31:DA:N1	2:2:32:DA:C5	2.82	0.46
3:A:140:GLN:HE21	3:A:326:ARG:NE	2.08	0.46
3:A:335:GLN:C	3:A:335:GLN:CD	2.74	0.46
3:A:348:ARG:NH1	3:A:352:THR:OG1	2.49	0.46
3:A:501:GLY:O	3:A:502:TYR:O	2.33	0.46
3:A:735:GLU:HB3	3:A:736:ILE:H	1.35	0.46
3:A:882:ILE:HG22	3:A:883:VAL:N	2.31	0.46
3:A:940:ARG:HB2	3:A:941:ASP:H	1.35	0.46
4:B:18:SER:O	4:B:21:PHE:HB3	2.16	0.46
4:B:85:ILE:HA	4:B:371:ARG:NE	2.30	0.46
4:B:174:ILE:HD12	4:B:174:ILE:HG23	1.56	0.46
4:B:256:VAL:O	4:B:257:ILE:HD13	2.15	0.46
4:B:326:PRO:CD	4:B:327:GLY:H	2.28	0.46
4:B:455:PHE:N	4:B:455:PHE:CD1	2.82	0.46
4:B:463:LYS:HB2	4:B:465:ASP:OD1	2.15	0.46
4:B:622:GLU:HG2	4:B:769:ARG:HH21	1.80	0.46
4:B:700:VAL:O	4:B:701:ILE:C	2.53	0.46
4:B:709:GLN:O	4:B:712:GLU:HB3	2.16	0.46
4:B:723:ARG:O	4:B:725:ILE:N	2.49	0.46
4:B:819:ILE:HG13	4:B:819:ILE:O	2.15	0.46
4:B:916:VAL:CG2	4:B:930:PRO:HD3	2.46	0.46
4:B:1122:VAL:HG12	4:B:1123:ASN:N	2.22	0.46
4:B:1245:ILE:HG23	4:B:1246:PRO:CD	2.40	0.46
5:C:86:ILE:HG22	5:C:121:ILE:HG13	1.97	0.46
5:C:196:LEU:CD2	5:C:197:GLU:N	2.76	0.46
5:C:203:SER:C	5:C:204:ILE:HG12	2.35	0.46
5:C:209:ALA:O	5:C:212:SER:N	2.49	0.46
5:D:25:LEU:HD22	5:D:28:LEU:HD21	1.97	0.46
5:D:178:TYR:CD1	5:D:178:TYR:N	2.80	0.46
6:E:58:PHE:HA	6:E:99:ARG:HH22	1.80	0.46
6:E:254:PRO:O	6:E:256:LEU:N	2.49	0.46
6:E:281:ASN:O	6:E:284:ASN:N	2.49	0.46
6:E:299:VAL:O	6:E:300:ARG:C	2.50	0.46
6:E:432:ARG:HA	6:E:473:MET:HG2	1.97	0.46
6:E:443:ALA:HB2	6:E:487:ALA:HB1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:604:GLN:HG3	6:E:604:GLN:O	2.16	0.46
8:G:104:ALA:O	8:G:105:ARG:C	2.54	0.46
8:G:232:PRO:HB2	8:G:234:HIS:ND1	2.28	0.46
9:Y:31:ASN:N	9:Y:95:PHE:O	2.44	0.46
1:1:60:DT:C5	1:1:61:DT:H73	2.51	0.46
1:1:63:DG:N1	2:2:64:DA:C6	2.82	0.46
2:2:10:DG:H4'	2:2:11:DT:OP1	2.15	0.46
2:2:46:DT:C5	2:2:47:DT:C5	3.03	0.46
2:2:48:DT:C2	2:2:49:DT:C4	3.03	0.46
2:2:67:DA:O5'	2:2:67:DA:N9	2.48	0.46
3:A:256:LEU:O	3:A:257:LEU:C	2.49	0.46
3:A:289:VAL:O	3:A:289:VAL:CG1	2.60	0.46
3:A:357:GLU:O	3:A:359:LEU:N	2.49	0.46
3:A:453:VAL:HA	3:A:459:LEU:HA	1.97	0.46
3:A:512:TYR:O	3:A:513:ARG:C	2.51	0.46
3:A:600:TYR:N	3:A:608:VAL:HG12	2.31	0.46
3:A:693:TRP:CD1	3:A:696:TYR:HB2	2.50	0.46
3:A:697:ASN:H	3:A:701:ALA:CB	2.27	0.46
3:A:720:GLU:HB3	3:A:840:VAL:CG1	2.45	0.46
3:A:727:ARG:HH21	3:A:832:ALA:CB	2.18	0.46
3:A:791:ILE:HG22	3:A:792:PHE:CD1	2.50	0.46
4:B:20:ALA:O	4:B:24:TYR:N	2.49	0.46
4:B:93:LYS:HZ1	4:B:376:ALA:N	2.05	0.46
4:B:146:LEU:H	4:B:158:PRO:CB	2.29	0.46
4:B:240:LEU:HD12	4:B:240:LEU:HA	1.52	0.46
4:B:323:ILE:O	4:B:324:GLY:C	2.52	0.46
4:B:524:ARG:HB3	4:B:538:GLU:CD	2.36	0.46
4:B:575:ARG:CZ	4:B:590:GLU:OE1	2.64	0.46
4:B:604:LEU:HD12	4:B:630:LEU:O	2.16	0.46
4:B:669:SER:O	4:B:669:SER:OG	2.24	0.46
4:B:975:SER:HB3	4:B:997:LEU:HD13	1.96	0.46
4:B:1144:ILE:O	4:B:1146:ARG:N	2.49	0.46
5:C:84:GLU:N	5:C:84:GLU:CD	2.56	0.46
5:C:197:GLU:O	5:C:197:GLU:HG3	2.06	0.46
5:C:224:LEU:HG	5:D:6:ILE:CD1	2.45	0.46
5:D:174:ARG:HA	6:E:543:MET:CE	2.46	0.46
5:D:184:ARG:HA	5:D:186:ASP:CG	2.36	0.46
6:E:53:GLU:HG3	6:E:56:GLY:H	1.79	0.46
6:E:401:ILE:CG1	6:E:402:LYS:N	2.76	0.46
6:E:499:SER:OG	6:E:499:SER:O	2.27	0.46
6:E:571:THR:N	6:E:572:GLU:OE1	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:588:TYR:CD2	6:E:591:ARG:HB3	2.50	0.46
8:G:110:LEU:HD11	8:G:148:LEU:HD12	1.96	0.46
8:G:121:SER:HG	8:G:122:GLU:H	1.62	0.46
8:G:159:VAL:HG23	8:G:160:GLN:H	1.80	0.46
8:G:259:GLU:CG	8:G:270:ILE:HD12	2.46	0.46
8:G:315:LYS:O	8:G:316:ASN:C	2.50	0.46
8:G:317:LEU:O	8:G:319:ARG:N	2.48	0.46
9:Y:48:LEU:HD22	9:Y:72:ASN:HA	1.97	0.46
9:Y:55:SER:CA	9:Y:65:THR:HA	2.21	0.46
2:2:7:DT:C6	2:2:8:DC:C5	3.04	0.46
2:2:58:DA:C4	2:2:59:DG:C4	3.04	0.46
2:2:67:DA:C2	2:2:67:DA:OP1	2.69	0.46
3:A:58:ASP:C	3:A:60:THR:H	2.18	0.46
3:A:748:LEU:HA	3:A:751:LEU:HD12	1.95	0.46
3:A:843:LYS:O	3:A:844:ARG:HG2	2.15	0.46
3:A:1036:GLU:O	3:A:1037:LEU:C	2.53	0.46
4:B:88:VAL:O	4:B:369:ARG:O	2.32	0.46
4:B:107:ASP:CB	4:B:354:ASP:HB3	2.44	0.46
4:B:144:ARG:HD2	4:B:159:ILE:HG21	1.97	0.46
4:B:209:ILE:HD12	4:B:209:ILE:HG23	1.46	0.46
4:B:303:LEU:HD11	4:B:1137:ALA:CB	2.46	0.46
4:B:654:VAL:HG22	4:B:672:VAL:CG1	2.45	0.46
4:B:694:VAL:HG12	4:B:734:PRO:C	2.36	0.46
4:B:766:ILE:CG1	4:B:799:ILE:HG23	2.44	0.46
4:B:1091:HIS:HA	4:B:1094:LEU:CD2	2.46	0.46
4:B:1095:GLU:O	4:B:1099:SER:N	2.47	0.46
4:B:1117:VAL:CG1	4:B:1118:GLN:N	2.78	0.46
5:C:62:SER:OG	5:C:63:HIS:CG	2.67	0.46
5:C:99:LEU:HB3	5:C:138:MET:HB2	1.97	0.46
5:D:72:ARG:N	5:D:129:THR:O	2.29	0.46
5:D:179:SER:C	5:D:180:VAL:HG23	2.35	0.46
6:E:131:MET:HB3	6:E:136:VAL:CG2	2.35	0.46
6:E:252:ILE:HB	6:E:257:ARG:HD3	1.97	0.46
6:E:515:LEU:HD12	6:E:516:GLY:N	2.31	0.46
7:F:30:ARG:HH12	7:F:34:GLN:CD	2.19	0.46
8:G:266:MET:SD	8:G:273:LEU:HD21	2.55	0.46
8:G:321:ASP:HA	8:G:324:LYS:NZ	2.31	0.46
9:X:28:PHE:HB2	9:X:94:ALA:CB	2.44	0.46
9:X:108:VAL:CG1	9:X:112:LEU:HD13	2.44	0.46
2:2:3:DT:H2"	2:2:4:DG:N7	2.30	0.46
2:2:7:DT:C2	2:2:8:DC:C2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:34:DA:C5	2:2:35:DA:C6	3.04	0.46
2:2:58:DA:H1'	2:2:59:DG:C1'	2.46	0.46
3:A:33:ILE:HA	3:A:33:ILE:HD12	1.30	0.46
3:A:151:SER:O	3:A:152:GLU:HB3	2.15	0.46
3:A:158:ARG:CZ	3:A:179:ARG:HG3	2.45	0.46
3:A:263:ASP:O	3:A:265:LYS:N	2.48	0.46
3:A:510:VAL:HG12	3:A:517:SER:O	2.16	0.46
3:A:510:VAL:CG1	3:A:519:THR:CG2	2.92	0.46
3:A:589:VAL:CA	3:A:653:GLN:NE2	2.52	0.46
3:A:822:ARG:HA	3:A:826:ASP:CG	2.35	0.46
3:A:990:ILE:O	3:A:991:HIS:ND1	2.47	0.46
3:A:993:ARG:NH1	3:A:996:GLY:H	2.14	0.46
4:B:80:TYR:HB2	4:B:90:ARG:CG	2.38	0.46
4:B:243:VAL:HG23	4:B:243:VAL:O	2.16	0.46
4:B:253:THR:H	4:B:253:THR:HG23	1.37	0.46
4:B:470:THR:HG22	4:B:471:THR:HG23	1.97	0.46
4:B:481:TRP:CE3	4:B:481:TRP:N	2.83	0.46
4:B:525:LEU:H	4:B:859:VAL:HG11	1.81	0.46
4:B:630:LEU:HA	4:B:742:VAL:O	2.16	0.46
4:B:714:LEU:H	4:B:717:GLN:C	2.19	0.46
4:B:925:GLY:CA	4:B:933:PHE:HB3	2.45	0.46
4:B:986:ASP:O	4:B:987:LEU:C	2.53	0.46
4:B:1151:LYS:HB2	4:B:1195:LEU:HD23	1.94	0.46
4:B:1159:ASP:OD2	4:B:1180:MET:HE1	2.15	0.46
4:B:1202:LEU:HG	4:B:1203:ASN:OD1	2.15	0.46
5:C:179:SER:C	5:C:180:VAL:HG23	2.35	0.46
5:D:86:ILE:HG22	5:D:121:ILE:HG13	1.97	0.46
5:D:166:ILE:HG12	5:D:167:ASP:H	1.79	0.46
6:E:71:CYS:O	6:E:74:GLY:N	2.49	0.46
6:E:124:TYR:CD1	6:E:127:ILE:CD1	2.98	0.46
8:G:145:ARG:O	8:G:148:LEU:HB3	2.15	0.46
8:G:203:GLY:O	8:G:204:TYR:O	2.33	0.46
8:G:244:LYS:O	8:G:248:LEU:HG	2.15	0.46
8:G:351:LEU:HG	8:G:352:GLU:N	2.29	0.46
9:X:47:LEU:HD13	9:X:100:LEU:CD2	2.16	0.46
9:Y:37:PRO:HG3	9:Y:89:PHE:C	2.36	0.46
9:Y:43:ARG:CG	9:Y:44:VAL:N	2.78	0.46
9:Y:81:LEU:HD22	9:Y:86:SER:CB	2.45	0.46
9:Y:88:ARG:C	9:Y:90:TYR:H	2.18	0.46
1:1:59:DT:C6	1:1:60:DT:O4	2.69	0.46
1:1:79:DA:C5	1:1:80:DA:C6	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:86:DG:N3	1:1:87:DA:C4	2.84	0.46
1:1:93:DT:H2"	1:1:94:DT:H71	1.98	0.46
1:1:94:DT:C6	1:1:95:DT:H71	2.51	0.46
2:2:57:DT:H1'	2:2:58:DA:N9	2.30	0.46
2:2:58:DA:H1'	2:2:59:DG:O4'	2.16	0.46
2:2:60:DC:H2'	2:2:61:DT:C5	2.41	0.46
3:A:114:VAL:HB	3:A:115:PHE:O	2.16	0.46
3:A:115:PHE:O	3:A:116:ILE:HG13	2.16	0.46
3:A:222:THR:CG2	3:A:224:GLU:O	2.63	0.46
3:A:393:LEU:HD12	3:A:394:ALA:N	2.28	0.46
3:A:532:VAL:HG13	3:A:535:VAL:HG21	1.97	0.46
3:A:617:ALA:O	3:A:620:LYS:N	2.47	0.46
3:A:636:ARG:HG3	3:A:636:ARG:HH11	1.81	0.46
3:A:641:LYS:HA	3:A:652:ASN:HB3	1.97	0.46
3:A:849:GLY:O	3:A:850:ASP:OD1	2.33	0.46
3:A:932:VAL:O	3:A:935:LYS:N	2.49	0.46
3:A:943:THR:OG1	3:A:945:LYS:HG2	2.16	0.46
3:A:960:TYR:HD1	3:A:960:TYR:HA	1.51	0.46
3:A:996:GLY:HA3	3:A:997:PRO:HD2	1.57	0.46
3:A:1006:LEU:O	3:A:1008:GLY:N	2.49	0.46
4:B:191:ALA:O	4:B:194:GLY:N	2.48	0.46
4:B:235:LEU:O	4:B:236:SER:C	2.53	0.46
4:B:444:ASP:N	4:B:996:LEU:HD13	2.31	0.46
4:B:520:GLY:HA2	4:B:806:GLU:HA	1.98	0.46
4:B:621:TYR:CZ	4:B:774:LEU:O	2.68	0.46
4:B:645:LEU:CB	4:B:662:LYS:HD3	2.43	0.46
4:B:691:LEU:HD23	4:B:691:LEU:H	1.80	0.46
4:B:731:PRO:C	4:B:733:GLY:H	2.18	0.46
4:B:978:ALA:HB2	4:B:997:LEU:HD12	1.98	0.46
5:C:83:LYS:HG2	5:C:166:ILE:CD1	2.44	0.46
5:D:111:HIS:H	5:D:111:HIS:HD2	1.63	0.46
5:D:209:ALA:O	5:D:212:SER:N	2.49	0.46
6:E:226:LYS:O	6:E:229:ARG:HG2	2.16	0.46
6:E:254:PRO:CG	6:E:255:ASP:N	2.60	0.46
6:E:391:ARG:HE	6:E:391:ARG:HB3	1.37	0.46
6:E:486:GLU:O	6:E:487:ALA:O	2.33	0.46
6:E:539:ASP:O	6:E:542:ILE:HB	2.16	0.46
6:E:588:TYR:CZ	6:E:591:ARG:NH2	2.84	0.46
8:G:82:ILE:HD13	8:G:180:PHE:HD1	1.78	0.46
8:G:121:SER:CA	8:G:127:ASP:HA	2.37	0.46
8:G:122:GLU:CD	8:G:123:LYS:N	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:63:DG:H2"	1:1:64:DT:C6	2.50	0.46
1:1:75:DA:C4	1:1:76:DC:C5	3.03	0.46
1:1:95:DT:C2	1:1:96:DC:C6	3.04	0.46
1:1:95:DT:N3	2:2:31:DA:C6	2.84	0.46
1:1:105:DG:C8	8:G:164:ARG:HD3	2.50	0.46
1:1:105:DG:O5'	1:1:105:DG:H8	1.99	0.46
1:1:106:DG:C6	1:1:107:DG:C6	3.04	0.46
2:2:33:DA:N3	2:2:34:DA:H1'	2.30	0.46
3:A:56:ILE:HG22	3:A:57:THR:N	2.31	0.46
3:A:205:SER:O	3:A:209:ILE:HG12	2.16	0.46
3:A:289:VAL:HG22	3:A:291:VAL:O	2.16	0.46
3:A:620:LYS:CG	3:A:630:GLN:HB3	2.46	0.46
3:A:778:GLU:HB3	3:A:779:SER:H	1.61	0.46
3:A:850:ASP:C	3:A:851:LYS:O	2.51	0.46
4:B:8:VAL:HG23	6:E:517:ALA:HB1	1.98	0.46
4:B:66:LEU:HD12	4:B:66:LEU:HA	1.28	0.46
4:B:101:THR:HG23	4:B:101:THR:H	1.50	0.46
4:B:190:THR:CG2	4:B:191:ALA:N	2.63	0.46
4:B:260:ARG:HH11	4:B:261:ASN:N	2.14	0.46
4:B:285:PRO:HA	4:B:298:CYS:SG	2.55	0.46
4:B:520:GLY:O	4:B:541:THR:HG21	2.16	0.46
4:B:730:SER:HB2	4:B:735:ALA:HB3	1.98	0.46
4:B:1138:ASP:HA	4:B:1141:ILE:CD1	2.45	0.46
4:B:1155:ASP:O	4:B:1156:ASP:C	2.54	0.46
4:B:1208:ILE:HA	4:B:1208:ILE:HD13	1.27	0.46
5:C:54:THR:HG21	5:C:143:GLU:OE2	2.16	0.46
5:C:92:SER:HB2	5:C:144:ARG:HB3	1.97	0.46
5:D:191:LYS:C	5:D:192:ASP:CG	2.73	0.46
6:E:29:THR:HB	6:E:35:VAL:HG12	1.97	0.46
6:E:167:TRP:O	6:E:170:ILE:HB	2.16	0.46
6:E:226:LYS:O	6:E:229:ARG:CG	2.64	0.46
6:E:240:LYS:HG2	6:E:243:TRP:CD2	2.50	0.46
6:E:422:VAL:HG13	6:E:423:ILE:N	2.27	0.46
6:E:520:LEU:HD23	6:E:521:THR:N	2.31	0.46
8:G:87:GLN:O	8:G:88:GLU:C	2.52	0.46
8:G:125:GLU:HG3	8:G:127:ASP:H	1.81	0.46
9:X:37:PRO:HD3	9:X:91:HIS:CB	2.46	0.46
9:X:82:THR:H	9:X:86:SER:HB2	1.81	0.46
9:X:119:SER:C	9:X:123:LEU:HD13	2.36	0.46
9:X:205:ILE:HD11	9:X:208:LYS:HA	1.98	0.46
9:Y:27:THR:HA	9:Y:98:VAL:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:70:DC:H2"	1:1:71:DT:OP2	2.16	0.46
1:1:79:DA:C6	1:1:80:DA:C5	3.04	0.46
2:2:7:DT:C1'	2:2:8:DC:H5'	2.45	0.46
2:2:50:DG:OP1	9:X:176:HIS:CE1	2.69	0.46
2:2:63:DC:H5	9:Y:187:ARG:HH11	1.64	0.46
2:2:68:DT:C3'	2:2:68:DT:C6	2.99	0.46
3:A:38:PHE:O	3:A:41:PHE:HB3	2.16	0.46
3:A:141:ILE:HG22	3:A:404:ALA:HA	1.97	0.46
3:A:181:ASP:O	3:A:182:LEU:HB2	2.16	0.46
3:A:225:LYS:HA	3:A:225:LYS:HD2	1.56	0.46
3:A:251:LEU:O	3:A:252:GLY:O	2.34	0.46
3:A:326:ARG:HG3	3:A:331:LEU:HD21	1.97	0.46
3:A:409:GLY:C	3:A:410:LEU:HD12	2.36	0.46
3:A:425:SER:CA	3:A:484:GLU:HG2	2.45	0.46
3:A:606:ILE:HG22	3:A:608:VAL:HG11	1.98	0.46
3:A:672:GLY:O	3:A:673:SER:C	2.51	0.46
3:A:736:ILE:HD12	3:A:736:ILE:HG23	1.67	0.46
3:A:837:ARG:HD2	3:A:837:ARG:HA	1.45	0.46
3:A:940:ARG:O	3:A:942:GLU:N	2.49	0.46
3:A:963:ARG:HE	3:A:963:ARG:HB2	1.11	0.46
4:B:53:VAL:HG22	4:B:164:ARG:HE	1.81	0.46
4:B:288:CYS:CB	4:B:295:CYS:SG	2.92	0.46
4:B:379:VAL:CG2	4:B:380:GLU:OE1	2.59	0.46
4:B:452:GLU:N	4:B:483:LEU:O	2.49	0.46
4:B:526:PRO:CB	4:B:536:GLU:H	2.29	0.46
4:B:577:THR:HB	4:B:578:PRO:HD2	1.97	0.46
4:B:618:LYS:HG2	4:B:619:LEU:HD23	1.98	0.46
4:B:653:TYR:CE1	4:B:671:VAL:CA	2.98	0.46
4:B:822:LEU:HA	4:B:826:ASP:CA	2.37	0.46
4:B:831:GLN:CG	4:B:833:VAL:HG13	2.46	0.46
4:B:900:LEU:O	4:B:901:ARG:CG	2.64	0.46
4:B:1217:THR:O	4:B:1220:LEU:HB3	2.15	0.46
5:C:151:VAL:H	5:C:167:ASP:HB2	1.81	0.46
5:D:62:SER:O	5:D:164:LEU:HD11	2.16	0.46
5:D:149:ARG:HD2	5:D:149:ARG:C	2.36	0.46
6:E:53:GLU:C	6:E:54:MET:HG3	2.27	0.46
6:E:443:ALA:HB3	6:E:492:LEU:HA	1.98	0.46
8:G:118:GLU:HA	8:G:121:SER:HB3	1.98	0.46
8:G:120:LEU:HA	8:G:120:LEU:HD12	1.58	0.46
8:G:231:LEU:CD1	8:G:279:SER:O	2.64	0.46
8:G:324:LYS:C	8:G:327:ASP:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:34:ILE:HG22	9:X:35:PHE:HD2	1.81	0.46
9:X:78:LEU:CD2	9:X:88:ARG:CD	2.86	0.46
9:X:145:MET:HE1	9:Y:143:ARG:NH2	2.30	0.46
1:1:68:DT:H2'	1:1:69:DA:N7	2.31	0.45
1:1:77:DA:C2	2:2:50:DG:N3	2.84	0.45
1:1:79:DA:C2	1:1:80:DA:C4	3.04	0.45
1:1:96:DC:C2	1:1:97:DT:C4	3.04	0.45
1:1:99:DT:H6	1:1:99:DT:H2'	1.42	0.45
1:1:106:DG:OP2	1:1:106:DG:H2'	2.16	0.45
1:1:113:DT:H2"	1:1:114:DC:C5'	2.45	0.45
2:2:6:DA:H8	2:2:6:DA:P	2.39	0.45
2:2:7:DT:N3	2:2:8:DC:C4	2.84	0.45
3:A:80:SER:HG	3:A:83:GLU:N	2.10	0.45
3:A:184:TRP:HA	3:A:194:SER:O	2.16	0.45
3:A:214:ARG:NH2	3:A:311:ILE:HG13	2.30	0.45
3:A:281:LEU:HB3	3:A:283:LEU:HD21	1.97	0.45
3:A:350:ARG:NH2	3:A:363:SER:C	2.69	0.45
3:A:444:ILE:HD13	3:A:444:ILE:HA	1.46	0.45
3:A:513:ARG:N	3:A:513:ARG:CD	2.78	0.45
3:A:547:HIS:CE1	4:B:166:GLY:HA3	2.51	0.45
3:A:595:ASP:OD2	3:A:618:SER:CB	2.60	0.45
3:A:599:VAL:HG13	3:A:615:PRO:HD3	1.97	0.45
3:A:600:TYR:CD2	3:A:607:ARG:NE	2.85	0.45
3:A:616:THR:OG1	3:A:632:GLY:HA2	2.16	0.45
3:A:696:TYR:CD1	3:A:864:ARG:HB2	2.52	0.45
3:A:717:ILE:HA	3:A:717:ILE:HD13	1.32	0.45
3:A:903:LEU:HD12	3:A:903:LEU:HA	1.49	0.45
3:A:934:GLY:O	3:A:935:LYS:C	2.52	0.45
3:A:958:MET:O	3:A:959:VAL:CG1	2.63	0.45
3:A:1033:THR:O	3:A:1036:GLU:HG3	2.16	0.45
4:B:103:GLU:CG	4:B:424:LEU:HD12	2.46	0.45
4:B:223:ARG:HD2	4:B:223:ARG:N	2.31	0.45
4:B:232:LEU:C	4:B:233:ILE:HG13	2.35	0.45
4:B:359:LEU:HD12	4:B:387:LEU:HA	1.99	0.45
4:B:388:GLU:HB2	4:B:397:PRO:CG	2.46	0.45
4:B:463:LYS:CE	4:B:466:ARG:N	2.78	0.45
4:B:526:PRO:HD2	4:B:859:VAL:CG2	2.46	0.45
4:B:597:ARG:HD3	4:B:788:VAL:CG1	2.27	0.45
4:B:714:LEU:H	4:B:717:GLN:N	2.12	0.45
4:B:915:LYS:CB	4:B:916:VAL:HG23	2.46	0.45
4:B:932:ILE:C	4:B:933:PHE:CD1	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:212:SER:O	5:C:213:ALA:C	2.51	0.45
5:D:70:GLY:O	5:D:131:ALA:N	2.43	0.45
5:D:105:THR:O	5:D:130:ILE:N	2.36	0.45
5:D:160:SER:C	5:D:161:LEU:HG	2.36	0.45
6:E:156:LEU:HD21	6:E:170:ILE:HG23	1.98	0.45
6:E:225:ILE:HA	6:E:228:LEU:HD23	1.97	0.45
6:E:374:GLY:O	6:E:375:LEU:HB2	2.17	0.45
9:X:47:LEU:CB	9:X:69:LEU:HD23	2.41	0.45
9:X:56:ARG:CZ	9:X:129:ARG:HH21	2.29	0.45
1:1:69:DA:C1'	1:1:70:DC:H5'	2.44	0.45
1:1:72:DT:H4'	1:1:72:DT:OP1	2.16	0.45
1:1:114:DC:H1'	1:1:115:DA:C4	2.50	0.45
2:2:11:DT:H5'	2:2:11:DT:C6	2.51	0.45
3:A:80:SER:HG	3:A:83:GLU:HB2	1.80	0.45
3:A:265:LYS:CG	3:A:266:ARG:HG3	2.45	0.45
3:A:328:VAL:O	3:A:329:GLY:O	2.34	0.45
3:A:344:GLU:CD	3:A:345:ARG:N	2.70	0.45
3:A:373:ALA:O	3:A:376:GLU:HB3	2.17	0.45
3:A:374:ILE:HG21	3:A:374:ILE:HD13	1.52	0.45
3:A:465:PRO:HD2	3:A:475:GLN:HE21	1.81	0.45
3:A:520:THR:O	3:A:522:GLU:OE1	2.34	0.45
3:A:543:PRO:HG2	3:A:856:HIS:NE2	2.31	0.45
3:A:586:SER:CB	3:A:588:MET:H	2.29	0.45
3:A:591:VAL:O	3:A:591:VAL:HG23	2.16	0.45
3:A:648:ASP:HB3	3:A:719:ILE:O	2.16	0.45
3:A:664:VAL:O	3:A:665:ALA:C	2.54	0.45
3:A:993:ARG:NH1	6:E:355:ASP:HB3	2.31	0.45
3:A:1078:GLN:HE22	6:E:25:TRP:HE1	1.64	0.45
4:B:91:PHE:CE1	4:B:156:ASP:OD2	2.67	0.45
4:B:195:TYR:HD1	4:B:195:TYR:HA	1.48	0.45
4:B:257:ILE:HD12	4:B:257:ILE:HG23	1.44	0.45
4:B:463:LYS:HE2	4:B:466:ARG:H	1.77	0.45
4:B:496:LEU:CA	4:B:511:ALA:HA	2.24	0.45
4:B:524:ARG:HB3	4:B:538:GLU:OE2	2.16	0.45
4:B:601:GLY:C	4:B:634:GLU:H	2.19	0.45
4:B:649:GLU:OE2	4:B:650:ASP:OD1	2.35	0.45
4:B:720:THR:OG1	4:B:721:GLU:N	2.50	0.45
4:B:888:GLN:OE1	4:B:894:VAL:CG1	2.64	0.45
4:B:966:ILE:O	4:B:966:ILE:HG23	2.16	0.45
4:B:1241:ILE:O	4:B:1241:ILE:HG23	2.13	0.45
5:C:28:LEU:HD12	5:C:193:ARG:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:57:ARG:HB2	5:C:139:GLU:O	2.16	0.45
5:C:182:GLU:HA	5:C:191:LYS:O	2.16	0.45
5:D:11:SER:HA	5:D:20:TYR:O	2.17	0.45
5:D:126:TYR:CE2	5:D:127:VAL:O	2.69	0.45
5:D:151:VAL:HG21	5:D:165:GLN:CG	2.46	0.45
5:D:200:THR:O	5:D:200:THR:HG23	2.13	0.45
6:E:81:HIS:CE1	6:E:93:VAL:HG21	2.52	0.45
6:E:370:ILE:O	6:E:371:HIS:CG	2.69	0.45
7:F:39:ALA:HB2	7:F:61:ALA:HB2	1.97	0.45
7:F:43:ARG:O	7:F:47:PHE:HA	2.17	0.45
9:X:43:ARG:CG	9:X:44:VAL:N	2.78	0.45
9:X:191:THR:O	9:X:194:LEU:HB3	2.17	0.45
9:Y:46:PHE:N	9:Y:101:LEU:O	2.48	0.45
9:Y:206:HIS:HB2	9:Y:209:LYS:HG2	1.97	0.45
1:1:78:DA:H1'	1:1:79:DA:OP1	2.16	0.45
2:2:49:DT:OP2	9:X:176:HIS:CD2	2.69	0.45
2:2:64:DA:H2"	2:2:65:DA:C8	2.52	0.45
3:A:57:THR:HA	3:A:63:LEU:O	2.16	0.45
3:A:72:TYR:CD1	3:A:74:LEU:HD11	2.44	0.45
3:A:335:GLN:HE22	3:A:373:ALA:HB1	1.79	0.45
3:A:393:LEU:HD12	3:A:393:LEU:O	2.16	0.45
3:A:444:ILE:HG23	3:A:444:ILE:HD12	1.36	0.45
3:A:609:ARG:CZ	3:A:637:TYR:O	2.58	0.45
3:A:957:ILE:HD13	3:A:974:ILE:HG13	1.98	0.45
3:A:1010:ALA:HB3	3:A:1011:GLN:OE1	2.15	0.45
3:A:1024:ALA:O	3:A:1028:PHE:CD2	2.70	0.45
4:B:104:ALA:HA	4:B:107:ASP:OD2	2.17	0.45
4:B:235:LEU:O	4:B:238:ARG:N	2.49	0.45
4:B:282:VAL:O	4:B:284:SER:N	2.48	0.45
4:B:492:PRO:HD3	4:B:895:ARG:HH22	1.81	0.45
4:B:522:VAL:CA	4:B:863:ASP:O	2.65	0.45
4:B:710:PRO:C	4:B:712:GLU:N	2.69	0.45
4:B:766:ILE:HG22	4:B:832:LEU:CD2	2.43	0.45
4:B:1038:VAL:HG13	4:B:1039:VAL:H	1.81	0.45
4:B:1049:ILE:HG22	4:B:1062:PRO:O	2.17	0.45
4:B:1107:TYR:CZ	4:B:1174:GLU:CG	2.88	0.45
4:B:1114:LEU:HD13	4:B:1192:PRO:HB2	1.98	0.45
5:C:132:GLU:HB3	5:C:133:GLY:H	1.63	0.45
5:D:122:ASP:O	5:D:123:PRO:O	2.35	0.45
5:D:218:VAL:HG23	5:D:218:VAL:H	1.57	0.45
6:E:255:ASP:C	6:E:257:ARG:N	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:329:ARG:HB3	6:E:330:PRO:HD2	1.97	0.45
6:E:479:LEU:C	6:E:480:SER:O	2.50	0.45
8:G:183:LEU:HA	8:G:183:LEU:HD23	1.55	0.45
8:G:274:ARG:O	8:G:277:ALA:HB3	2.16	0.45
9:Y:43:ARG:HD2	9:Y:105:ILE:HG13	1.96	0.45
9:Y:129:ARG:O	9:Y:133:THR:HG23	2.16	0.45
1:1:97:DT:H1'	1:1:98:DG:C8	2.52	0.45
1:1:122:DC:N4	2:2:3:DT:C5	2.84	0.45
2:2:4:DG:H4'	2:2:5:DC:OP1	2.16	0.45
2:2:35:DA:C2	2:2:36:DT:C2	3.05	0.45
3:A:183:VAL:HA	3:A:184:TRP:CD1	2.52	0.45
3:A:281:LEU:C	3:A:283:LEU:HG	2.37	0.45
3:A:287:ASP:O	3:A:288:THR:OG1	2.29	0.45
3:A:366:ASN:OD1	3:A:366:ASN:C	2.55	0.45
3:A:566:LEU:HB2	3:A:569:PRO:HG3	1.98	0.45
3:A:585:ASP:O	3:A:586:SER:C	2.48	0.45
3:A:620:LYS:CD	3:A:630:GLN:HB3	2.47	0.45
3:A:702:ILE:HD11	3:A:860:GLY:HA3	1.98	0.45
3:A:894:ASN:O	3:A:897:GLN:HG2	2.15	0.45
4:B:71:GLU:C	4:B:71:GLU:CD	2.73	0.45
4:B:290:ALA:HB2	4:B:295:CYS:HA	1.99	0.45
4:B:359:LEU:HD22	4:B:384:ILE:O	2.14	0.45
4:B:360:PRO:O	4:B:361:ARG:HB2	2.17	0.45
4:B:525:LEU:N	4:B:859:VAL:HG11	2.31	0.45
4:B:649:GLU:C	4:B:652:GLN:O	2.55	0.45
4:B:742:VAL:HG23	4:B:744:PHE:CZ	2.50	0.45
4:B:851:GLY:HA2	4:B:876:ILE:HB	1.98	0.45
4:B:1091:HIS:CG	4:B:1092:GLU:H	2.35	0.45
5:C:29:GLU:HB2	5:C:32:GLN:NE2	2.31	0.45
5:C:57:ARG:HE	5:C:163:PHE:HA	1.80	0.45
5:C:200:THR:O	5:C:200:THR:HG23	2.13	0.45
5:D:39:ALA:O	5:D:40:LEU:C	2.49	0.45
5:D:54:THR:HG21	5:D:143:GLU:OE2	2.16	0.45
5:D:121:ILE:N	5:D:121:ILE:HD13	2.31	0.45
6:E:278:ARG:C	6:E:280:ILE:N	2.64	0.45
6:E:423:ILE:HG21	6:E:423:ILE:HD13	1.41	0.45
6:E:492:LEU:HD12	6:E:492:LEU:HA	1.31	0.45
6:E:492:LEU:HG	6:E:493:ALA:N	2.28	0.45
6:E:613:VAL:CG1	6:E:614:ILE:N	2.74	0.45
8:G:114:GLU:CD	8:G:115:ARG:N	2.70	0.45
9:Y:196:ASP:CA	9:Y:200:LYS:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:58:DA:H2	2:2:68:DT:O2	1.99	0.45
1:1:84:DA:C6	2:2:41:DC:C4	3.05	0.45
1:1:114:DC:H6	1:1:114:DC:H2'	1.63	0.45
3:A:271:ARG:HA	3:A:290:ARG:NH2	2.28	0.45
3:A:295:GLY:O	3:A:296:ASP:C	2.52	0.45
3:A:343:LEU:HD23	3:A:344:GLU:N	2.31	0.45
3:A:371:VAL:O	3:A:375:LYS:HB3	2.17	0.45
3:A:412:ARG:HD3	3:A:439:PRO:HB2	1.98	0.45
3:A:452:ARG:HD3	3:A:479:TYR:CE2	2.52	0.45
3:A:628:THR:O	3:A:633:GLN:HG2	2.17	0.45
3:A:661:GLU:N	3:A:661:GLU:OE1	2.49	0.45
3:A:703:LEU:HD13	3:A:703:LEU:HA	1.41	0.45
3:A:1093:ALA:O	3:A:1095:GLY:N	2.49	0.45
4:B:59:PRO:HB3	4:B:109:VAL:CA	2.45	0.45
4:B:72:GLU:CA	4:B:418:VAL:HG12	2.44	0.45
4:B:77:GLU:O	4:B:78:VAL:C	2.55	0.45
4:B:124:MET:HG2	6:E:518:TYR:CD1	2.52	0.45
4:B:227:GLU:O	4:B:230:LYS:O	2.34	0.45
4:B:443:LYS:HZ2	4:B:974:VAL:HG13	1.82	0.45
4:B:552:THR:HG1	4:B:563:LEU:CB	2.28	0.45
4:B:882:GLY:C	4:B:900:LEU:H	2.20	0.45
4:B:1145:VAL:C	4:B:1148:MET:H	2.07	0.45
4:B:1159:ASP:CG	4:B:1180:MET:HE1	2.37	0.45
5:C:122:ASP:O	5:C:123:PRO:O	2.35	0.45
5:D:77:GLU:O	5:D:78:ILE:C	2.53	0.45
5:D:103:GLY:N	5:D:133:GLY:HA2	2.32	0.45
5:D:208:GLU:O	5:D:209:ALA:C	2.53	0.45
6:E:204:GLN:O	6:E:208:SER:N	2.49	0.45
6:E:213:ILE:N	6:E:213:ILE:HD13	2.30	0.45
6:E:344:ARG:HD3	6:E:348:ASN:HB2	1.97	0.45
6:E:464:PHE:N	6:E:464:PHE:CD1	2.76	0.45
6:E:530:GLY:HA2	6:E:533:LYS:HE3	1.98	0.45
6:E:577:THR:HG22	6:E:579:ASN:OD1	2.17	0.45
6:E:591:ARG:NH1	6:E:591:ARG:HB2	2.32	0.45
6:E:620:GLN:O	6:E:623:LEU:N	2.27	0.45
8:G:128:PRO:O	8:G:129:ARG:C	2.55	0.45
8:G:210:ALA:O	8:G:214:ILE:HG12	2.17	0.45
8:G:294:GLU:OE1	8:G:294:GLU:N	2.48	0.45
8:G:320:GLU:OE2	8:G:321:ASP:OD1	2.35	0.45
9:X:27:THR:CA	9:X:98:VAL:HB	2.47	0.45
9:X:112:LEU:HG	9:X:119:SER:CA	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:88:ARG:O	9:Y:90:TYR:N	2.49	0.45
9:Y:142:HIS:HE1	9:Y:144:ASP:OD2	2.00	0.45
1:1:69:DA:H2"	1:1:70:DC:H2'	1.99	0.45
1:1:117:DG:C4	1:1:118:DG:O4'	2.69	0.45
2:2:40:DC:C2	2:2:41:DC:C5	3.04	0.45
2:2:40:DC:H4'	2:2:41:DC:H5'	1.99	0.45
2:2:42:DT:H6	2:2:43:DG:C5'	2.29	0.45
3:A:167:PRO:HG3	3:A:170:GLY:O	2.16	0.45
3:A:250:VAL:O	3:A:251:LEU:C	2.53	0.45
3:A:460:GLU:OE2	3:A:479:TYR:HA	2.17	0.45
3:A:620:LYS:HZ2	3:A:630:GLN:C	2.11	0.45
3:A:676:GLU:CD	3:A:677:GLY:N	2.70	0.45
3:A:707:ARG:CA	3:A:710:GLN:OE1	2.64	0.45
3:A:1015:GLN:HG3	6:E:357:SER:OG	2.17	0.45
3:A:1077:LEU:O	3:A:1078:GLN:C	2.42	0.45
3:A:1085:ALA:HB1	3:A:1098:LEU:HD21	1.98	0.45
4:B:541:THR:HB	4:B:760:GLN:H	1.82	0.45
4:B:562:TYR:O	4:B:563:LEU:C	2.55	0.45
4:B:614:LYS:C	4:B:616:LYS:N	2.68	0.45
4:B:1231:TRP:NE1	6:E:11:TYR:CG	2.79	0.45
5:C:54:THR:HA	5:C:166:ILE:HG22	1.99	0.45
5:C:98:ARG:HA	5:C:98:ARG:HD3	1.62	0.45
5:C:119:GLU:HG2	5:C:119:GLU:O	2.16	0.45
5:C:204:ILE:HD13	5:C:204:ILE:HA	1.69	0.45
5:C:227:ILE:CD1	5:D:5:GLN:CB	2.95	0.45
5:D:154:GLY:C	5:D:155:ARG:HG3	2.37	0.45
5:D:223:PRO:HA	5:D:227:ILE:HG12	1.99	0.45
6:E:123:SER:O	6:E:126:SER:N	2.50	0.45
6:E:212:GLU:HB2	6:E:213:ILE:HD13	1.99	0.45
6:E:225:ILE:CG1	6:E:226:LYS:N	2.80	0.45
6:E:429:MET:HE3	6:E:429:MET:HB3	1.53	0.45
6:E:503:GLY:O	6:E:504:ARG:C	2.53	0.45
6:E:583:SER:HA	6:E:585:THR:OG1	2.17	0.45
6:E:588:TYR:CE2	6:E:591:ARG:NH2	2.85	0.45
8:G:114:GLU:C	8:G:117:ARG:H	2.18	0.45
8:G:120:LEU:O	8:G:124:LEU:HD23	2.17	0.45
8:G:291:GLY:C	8:G:293:GLU:H	2.19	0.45
8:G:369:GLU:OE1	8:G:370:ALA:N	2.50	0.45
9:X:35:PHE:HD1	9:X:36:PHE:O	1.99	0.45
9:X:112:LEU:HG	9:X:119:SER:CB	2.47	0.45
9:X:197:LEU:HD22	9:X:205:ILE:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:48:LEU:HG	9:Y:101:LEU:H	1.79	0.45
1:1:118:DG:H1'	1:1:119:DA:C3'	2.46	0.45
1:1:118:DG:N3	1:1:119:DA:OP1	2.50	0.45
2:2:31:DA:C2	2:2:32:DA:N9	2.85	0.45
2:2:57:DT:C4'	2:2:58:DA:H5'	2.44	0.45
3:A:188:ASP:O	3:A:190:THR:N	2.49	0.45
3:A:287:ASP:O	3:A:288:THR:C	2.54	0.45
3:A:300:ALA:O	3:A:302:ASP:N	2.49	0.45
3:A:470:ARG:CD	3:A:502:TYR:CZ	2.94	0.45
3:A:669:LEU:HD23	3:A:669:LEU:HA	1.32	0.45
3:A:970:ARG:HB3	4:B:48:GLY:O	2.17	0.45
3:A:1079:SER:O	3:A:1080:LEU:HG	2.17	0.45
4:B:170:THR:H	4:B:170:THR:HG23	1.15	0.45
4:B:367:THR:HA	4:B:370:THR:CG2	2.46	0.45
4:B:440:LYS:HD2	4:B:1000:GLU:CB	2.46	0.45
4:B:524:ARG:HG2	4:B:538:GLU:OE2	2.16	0.45
4:B:526:PRO:CB	4:B:535:ARG:HB3	2.43	0.45
4:B:588:VAL:HG11	4:B:797:LEU:HG	1.97	0.45
4:B:630:LEU:CB	4:B:743:GLU:OE1	2.64	0.45
4:B:664:ILE:HA	4:B:664:ILE:HD13	1.66	0.45
4:B:785:VAL:C	4:B:786:GLU:OE1	2.56	0.45
4:B:928:LEU:HD21	4:B:934:ALA:O	2.17	0.45
4:B:1129:TYR:CB	4:B:1130:GLN:HE21	2.30	0.45
4:B:1223:ALA:O	4:B:1224:ALA:C	2.53	0.45
4:B:1223:ALA:HB1	6:E:14:ILE:HG21	1.99	0.45
5:C:217:LEU:HD23	5:C:217:LEU:HA	1.28	0.45
6:E:392:LEU:O	6:E:394:ARG:N	2.50	0.45
6:E:423:ILE:O	6:E:426:HIS:HB3	2.17	0.45
6:E:535:PHE:CE2	6:E:556:VAL:HG11	2.52	0.45
8:G:191:LEU:HD12	8:G:214:ILE:HD11	1.98	0.45
8:G:193:ARG:NH1	8:G:197:LYS:HZ2	2.15	0.45
8:G:290:ILE:HG23	8:G:297:ARG:O	2.17	0.45
9:Y:47:LEU:N	9:Y:100:LEU:CD1	2.79	0.45
1:1:74:DT:H1'	1:1:75:DA:H5'	1.97	0.45
1:1:99:DT:H2'	1:1:99:DT:O5'	2.15	0.45
1:1:106:DG:C2	1:1:107:DG:C6	3.05	0.45
1:1:121:DG:O6	2:2:4:DG:O6	2.35	0.45
2:2:33:DA:C4	2:2:34:DA:C8	3.04	0.45
3:A:420:ARG:O	3:A:421:ASP:OD1	2.35	0.45
3:A:455:GLN:HG2	3:A:456:TYR:CE1	2.52	0.45
3:A:579:GLU:C	3:A:581:GLN:N	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:729:THR:C	3:A:732:GLY:H	2.17	0.45
3:A:813:ARG:HG3	3:A:814:VAL:H	1.81	0.45
4:B:79:ARG:HH12	4:B:373:GLY:HA2	1.82	0.45
4:B:147:MET:HB2	4:B:159:ILE:HD11	1.99	0.45
4:B:260:ARG:HH11	4:B:261:ASN:H	1.65	0.45
4:B:359:LEU:HA	4:B:388:GLU:H	1.82	0.45
4:B:370:THR:HG1	4:B:371:ARG:N	2.14	0.45
4:B:454:LYS:HB3	4:B:483:LEU:CD1	2.46	0.45
4:B:688:PRO:HD2	4:B:739:ARG:CG	2.42	0.45
4:B:764:ARG:HA	4:B:807:HIS:CD2	2.52	0.45
4:B:856:SER:H	4:B:873:ARG:CD	2.30	0.45
4:B:872:ALA:O	4:B:873:ARG:HD2	2.17	0.45
4:B:1029:LEU:HB3	4:B:1083:LEU:CD2	2.44	0.45
4:B:1040:TYR:CZ	4:B:1047:ILE:HA	2.52	0.45
4:B:1107:TYR:O	4:B:1108:ALA:C	2.54	0.45
5:C:44:LEU:C	5:C:46:SER:N	2.57	0.45
6:E:70:GLU:HG2	6:E:77:LYS:HA	1.99	0.45
6:E:226:LYS:HD3	6:E:226:LYS:HA	1.58	0.45
6:E:249:ILE:HG23	6:E:249:ILE:HD12	1.17	0.45
6:E:292:ILE:O	6:E:292:ILE:CG2	2.64	0.45
6:E:433:ALA:HB1	6:E:434:PRO:HD2	1.98	0.45
6:E:480:SER:OG	6:E:480:SER:O	2.17	0.45
6:E:583:SER:C	6:E:585:THR:N	2.67	0.45
8:G:128:PRO:HB2	8:G:134:ALA:O	2.16	0.45
8:G:350:THR:HG23	8:G:353:GLU:H	1.81	0.45
9:X:116:PRO:O	9:X:117:GLU:C	2.55	0.45
9:Y:36:PHE:HD1	9:Y:91:HIS:CG	2.34	0.45
9:Y:43:ARG:HH21	9:Y:80:LEU:HD23	1.82	0.45
1:1:77:DA:C2	1:1:78:DA:N1	2.85	0.45
1:1:80:DA:C2'	1:1:81:DT:H6	2.30	0.45
1:1:85:DG:C6	2:2:40:DC:N3	2.85	0.45
1:1:94:DT:OP1	6:E:47:TYR:CZ	2.70	0.45
1:1:105:DG:C1'	8:G:86:LEU:HD11	2.47	0.45
1:1:119:DA:N1	2:2:6:DA:C5	2.85	0.45
2:2:8:DC:N1	2:2:9:DC:N4	2.65	0.45
2:2:42:DT:C2'	2:2:43:DG:C8	3.00	0.45
2:2:65:DA:C4	2:2:66:DA:C6	3.05	0.45
3:A:238:LEU:HA	3:A:242:LEU:HB2	1.99	0.45
3:A:310:ASP:O	3:A:310:ASP:OD2	2.34	0.45
3:A:328:VAL:O	3:A:330:GLU:N	2.50	0.45
3:A:480:MET:O	3:A:481:THR:C	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:571:ARG:CD	3:A:913:ARG:CD	2.95	0.45
3:A:579:GLU:OE2	3:A:679:GLU:HB2	2.17	0.45
4:B:268:LEU:O	4:B:271:GLU:HG2	2.16	0.45
4:B:352:LYS:HZ3	4:B:389:PRO:HG3	1.81	0.45
4:B:352:LYS:C	4:B:353:MET:HG3	2.36	0.45
4:B:420:LYS:HA	4:B:420:LYS:HD3	1.42	0.45
4:B:548:GLN:HA	4:B:827:VAL:CG1	2.46	0.45
4:B:704:ASP:C	4:B:706:THR:N	2.70	0.45
4:B:771:VAL:HG13	4:B:771:VAL:O	2.17	0.45
4:B:789:GLU:OE1	4:B:789:GLU:HA	2.17	0.45
4:B:1012:PRO:HA	4:B:1015:GLU:HB3	1.98	0.45
4:B:1237:GLU:O	4:B:1239:VAL:C	2.54	0.45
5:C:69:PRO:O	5:C:71:VAL:HG12	2.17	0.45
5:C:112:PHE:HB3	5:C:140:PHE:HZ	1.82	0.45
5:D:83:LYS:HG2	5:D:166:ILE:CD1	2.44	0.45
5:D:99:LEU:HB3	5:D:138:MET:HB2	1.97	0.45
5:D:182:GLU:OE1	5:D:191:LYS:N	2.49	0.45
5:D:184:ARG:O	5:D:185:ALA:CB	2.64	0.45
5:D:202:GLY:C	5:D:204:ILE:H	2.20	0.45
6:E:49:THR:HG23	6:E:51:LYS:N	2.31	0.45
6:E:248:VAL:O	6:E:249:ILE:HD13	2.17	0.45
6:E:423:ILE:HG12	6:E:446:PRO:HG2	1.98	0.45
6:E:475:VAL:HG12	6:E:476:HIS:N	2.28	0.45
6:E:616:ASN:O	6:E:617:LYS:C	2.53	0.45
7:F:18:ALA:O	7:F:21:LEU:HB3	2.17	0.45
7:F:29:TYR:O	7:F:31:ILE:N	2.50	0.45
8:G:185:GLN:N	8:G:185:GLN:OE1	2.50	0.45
9:X:43:ARG:HH22	9:X:103:ALA:HB3	1.81	0.45
9:X:144:ASP:O	9:X:148:ARG:CD	2.59	0.45
9:X:145:MET:HB3	9:X:183:ILE:HG21	1.96	0.45
9:Y:43:ARG:HB3	9:Y:105:ILE:HG13	1.99	0.45
9:Y:57:VAL:HG21	9:Y:91:HIS:HB3	1.98	0.45
9:Y:175:SER:HB3	9:Y:178:ALA:HB2	1.99	0.45
1:1:79:DA:H2"	1:1:80:DA:C2	2.52	0.45
1:1:105:DG:N9	8:G:86:LEU:HD11	2.32	0.45
2:2:34:DA:C6	2:2:35:DA:C5	3.05	0.45
2:2:42:DT:C4	2:2:43:DG:C2	3.05	0.45
2:2:48:DT:C6	2:2:49:DT:H73	2.52	0.45
3:A:30:LEU:H	3:A:30:LEU:HG	1.40	0.45
3:A:59:TYR:N	3:A:59:TYR:CD1	2.85	0.45
3:A:153:ILE:HG22	3:A:154:ASP:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:349:GLU:CD	3:A:350:ARG:N	2.71	0.45
3:A:419:VAL:H	3:A:419:VAL:HG22	1.48	0.45
3:A:421:ASP:O	3:A:423:HIS:N	2.48	0.45
3:A:703:LEU:N	3:A:703:LEU:CD2	2.74	0.45
3:A:799:VAL:O	3:A:799:VAL:HG12	2.17	0.45
3:A:818:ARG:HG3	3:A:837:ARG:HB2	1.99	0.45
3:A:871:MET:HB3	3:A:872:PRO:HD2	1.99	0.45
3:A:893:MET:CE	4:B:163:PHE:HD2	2.28	0.45
3:A:1085:ALA:H	6:E:13:LYS:HB3	1.82	0.45
4:B:70:GLU:CB	4:B:74:ARG:HH12	2.30	0.45
4:B:76:THR:HG21	4:B:94:VAL:HB	1.99	0.45
4:B:265:SER:O	4:B:268:LEU:HB3	2.17	0.45
4:B:362:LYS:HZ3	4:B:364:ARG:NH2	2.15	0.45
4:B:463:LYS:CE	4:B:465:ASP:OD1	2.44	0.45
4:B:525:LEU:HA	4:B:859:VAL:HG11	1.99	0.45
4:B:645:LEU:HB2	4:B:662:LYS:CA	2.43	0.45
4:B:690:GLU:O	4:B:690:GLU:HG2	2.17	0.45
4:B:695:ASP:O	4:B:696:ASP:HB2	2.16	0.45
4:B:852:SER:N	4:B:876:ILE:HB	2.32	0.45
4:B:855:THR:CA	4:B:873:ARG:HB2	2.30	0.45
4:B:922:ILE:CD1	4:B:928:LEU:HD22	2.45	0.45
4:B:1078:PRO:CA	4:B:1100:LEU:CD1	2.94	0.45
5:C:98:ARG:NH1	5:C:98:ARG:HG2	2.32	0.45
5:C:183:VAL:O	5:C:184:ARG:HB2	2.16	0.45
5:D:45:LEU:HA	5:D:45:LEU:HD23	1.33	0.45
5:D:58:ILE:HD13	5:D:58:ILE:HA	1.45	0.45
6:E:20:GLU:O	6:E:24:GLN:HB2	2.16	0.45
6:E:25:TRP:CE3	6:E:250:PRO:HB3	2.51	0.45
6:E:60:GLU:C	6:E:62:ILE:N	2.59	0.45
6:E:124:TYR:O	6:E:125:ILE:C	2.56	0.45
6:E:251:VAL:HA	6:E:276:TYR:OH	2.17	0.45
6:E:261:GLN:HE21	6:E:262:LEU:C	2.19	0.45
8:G:321:ASP:O	8:G:322:LEU:C	2.55	0.45
9:X:27:THR:HA	9:X:98:VAL:HB	1.98	0.45
9:X:47:LEU:HD23	9:X:69:LEU:C	2.38	0.45
9:X:180:ALA:O	9:X:183:ILE:N	2.50	0.45
9:Y:46:PHE:O	9:Y:100:LEU:HD12	2.17	0.45
9:Y:106:GLU:HA	9:Y:109:GLU:HG2	1.98	0.45
9:Y:152:PHE:CZ	9:Y:156:LEU:HD21	2.52	0.45
1:1:84:DA:N6	2:2:42:DT:H3	2.15	0.44
1:1:102:DA:H2'	1:1:102:DA:O5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:45:DA:C5	2:2:46:DT:C2	3.04	0.44
2:2:49:DT:H4'	2:2:50:DG:OP1	2.17	0.44
2:2:57:DT:H1'	2:2:58:DA:C5	2.50	0.44
2:2:57:DT:C1'	2:2:58:DA:C5	3.00	0.44
3:A:115:PHE:CD2	3:A:115:PHE:O	2.69	0.44
3:A:137:ILE:HD13	3:A:384:SER:HA	1.96	0.44
3:A:552:ARG:O	3:A:553:ALA:C	2.50	0.44
3:A:595:ASP:C	3:A:618:SER:OG	2.55	0.44
3:A:609:ARG:O	3:A:616:THR:OG1	2.32	0.44
3:A:756:ILE:HD13	3:A:819:LEU:HD21	1.99	0.44
3:A:809:GLY:C	3:A:810:GLU:CD	2.75	0.44
3:A:993:ARG:NH2	3:A:997:PRO:O	2.50	0.44
3:A:1023:TRP:CE3	6:E:436:LEU:CD1	2.94	0.44
3:A:1074:MET:N	3:A:1074:MET:SD	2.70	0.44
4:B:19:TRP:CD1	4:B:23:HIS:CE1	3.05	0.44
4:B:111:THR:HG22	4:B:350:ARG:HD3	2.00	0.44
4:B:369:ARG:HD2	4:B:999:PHE:CD1	2.52	0.44
4:B:471:THR:HB	4:B:980:LEU:HD23	2.00	0.44
4:B:503:ARG:N	4:B:883:ILE:HD13	2.32	0.44
4:B:629:LEU:HA	4:B:629:LEU:HD12	1.81	0.44
4:B:638:GLU:HA	4:B:683:GLU:CA	2.41	0.44
4:B:638:GLU:OE1	4:B:638:GLU:N	2.50	0.44
4:B:980:LEU:HD23	4:B:980:LEU:H	1.82	0.44
4:B:994:LEU:HD23	4:B:994:LEU:HA	1.73	0.44
5:C:3:GLN:HE22	5:C:28:LEU:CA	2.29	0.44
5:C:80:MET:C	5:C:82:MET:N	2.67	0.44
5:C:82:MET:O	5:C:83:LYS:C	2.56	0.44
5:D:79:ILE:HG21	5:D:79:ILE:HD13	1.61	0.44
5:D:156:GLU:HB2	5:D:157:GLU:OE2	2.17	0.44
6:E:20:GLU:CD	6:E:20:GLU:H	2.20	0.44
6:E:36:VAL:HG13	6:E:37:GLY:N	2.32	0.44
6:E:95:GLU:CG	6:E:96:SER:H	2.04	0.44
6:E:173:GLN:HA	6:E:177:GLU:OE1	2.17	0.44
6:E:301:ASN:C	6:E:301:ASN:OD1	2.48	0.44
6:E:543:MET:C	6:E:545:PHE:N	2.64	0.44
6:E:621:GLU:C	6:E:623:LEU:N	2.65	0.44
8:G:178:LEU:HD23	8:G:178:LEU:HA	1.79	0.44
8:G:356:GLN:HA	8:G:360:VAL:H	1.80	0.44
9:X:53:LYS:O	9:X:93:VAL:HB	2.17	0.44
9:Y:36:PHE:HA	9:Y:91:HIS:ND1	2.33	0.44
9:Y:202:MET:SD	9:Y:216:VAL:O	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:78:DA:N3	1:1:79:DA:C4	2.86	0.44
1:1:98:DG:H1'	1:1:99:DT:C5'	2.47	0.44
1:1:103:DA:H2"	8:G:165:LEU:CD1	2.47	0.44
1:1:104:DT:N1	8:G:165:LEU:HB2	2.32	0.44
1:1:107:DG:N2	1:1:108:DA:C2	2.85	0.44
2:2:39:DT:OP2	2:2:39:DT:H2'	2.17	0.44
2:2:44:DA:H4'	2:2:45:DA:H5'	1.99	0.44
2:2:45:DA:C6	2:2:46:DT:N3	2.85	0.44
3:A:96:TYR:HD2	3:A:113:GLU:OE1	2.00	0.44
3:A:232:GLU:O	3:A:235:LEU:HB3	2.18	0.44
3:A:261:PHE:C	3:A:262:PHE:CG	2.90	0.44
3:A:340:LEU:HD23	3:A:340:LEU:HA	1.35	0.44
3:A:460:GLU:HG2	3:A:480:MET:O	2.17	0.44
3:A:696:TYR:OH	6:E:367:LYS:HG2	2.17	0.44
3:A:783:PRO:HG3	8:G:347:ARG:HG2	1.99	0.44
3:A:787:LEU:HA	3:A:787:LEU:HD23	1.13	0.44
3:A:868:ILE:HG21	3:A:868:ILE:HD13	1.49	0.44
3:A:999:SER:C	8:G:303:GLU:HA	2.37	0.44
3:A:1073:LEU:O	3:A:1074:MET:O	2.34	0.44
4:B:30:ALA:O	4:B:32:MET:N	2.49	0.44
4:B:59:PRO:HB2	4:B:108:GLU:CD	2.37	0.44
4:B:82:ARG:HB3	4:B:84:GLU:OE2	2.17	0.44
4:B:93:LYS:HZ1	4:B:375:ASP:C	2.19	0.44
4:B:211:GLU:OE1	4:B:290:ALA:HA	2.17	0.44
4:B:331:THR:HG23	4:B:332:MET:HE2	1.98	0.44
4:B:394:SER:CB	4:B:403:HIS:NE2	2.81	0.44
4:B:452:GLU:OE1	4:B:886:GLY:HA3	2.17	0.44
4:B:522:VAL:HB	4:B:862:GLY:H	1.82	0.44
4:B:582:VAL:HG22	4:B:586:GLN:HB2	1.99	0.44
4:B:601:GLY:CA	4:B:782:VAL:HG23	2.47	0.44
4:B:630:LEU:CA	4:B:743:GLU:HA	2.43	0.44
4:B:680:ILE:HG13	4:B:681:LEU:N	2.30	0.44
4:B:687:LYS:HG3	4:B:739:ARG:CG	2.46	0.44
4:B:906:ALA:N	4:B:967:ARG:HA	2.32	0.44
4:B:908:LEU:N	4:B:964:VAL:HB	2.26	0.44
4:B:937:SER:O	4:B:968:ALA:HA	2.18	0.44
5:C:25:LEU:HD22	5:C:28:LEU:HD11	1.99	0.44
5:D:20:TYR:O	5:D:21:SER:OG	2.34	0.44
5:D:80:MET:C	5:D:82:MET:N	2.67	0.44
5:D:165:GLN:HG2	5:D:166:ILE:N	2.29	0.44
5:D:212:SER:O	5:D:213:ALA:C	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:67:LYS:C	6:E:68:ASP:OD1	2.55	0.44
6:E:145:TYR:CD2	6:E:186:VAL:HB	2.41	0.44
6:E:206:ALA:C	6:E:210:ARG:NE	2.71	0.44
6:E:234:PHE:CD1	6:E:239:SER:HB3	2.52	0.44
6:E:265:GLY:HA2	8:G:278:LYS:NZ	2.32	0.44
6:E:362:ILE:O	6:E:362:ILE:HG22	2.12	0.44
6:E:477:VAL:HG13	6:E:477:VAL:O	2.09	0.44
6:E:529:LYS:HB2	6:E:551:ASP:CG	2.37	0.44
6:E:535:PHE:CD2	6:E:541:VAL:HB	2.52	0.44
8:G:114:GLU:CD	8:G:114:GLU:C	2.76	0.44
8:G:193:ARG:HA	8:G:193:ARG:HD2	1.45	0.44
8:G:374:ARG:NH2	8:G:377:ARG:HH12	2.15	0.44
9:X:51:ALA:HB2	9:X:160:PHE:CZ	2.50	0.44
9:X:53:LYS:HZ2	9:X:68:LEU:HD22	1.82	0.44
9:X:64:ILE:CD1	9:X:66:VAL:HB	2.39	0.44
1:1:120:DT:O4	1:1:121:DG:C6	2.70	0.44
2:2:45:DA:OP2	2:2:45:DA:H3'	2.17	0.44
3:A:735:GLU:CA	3:A:772:LYS:CD	2.84	0.44
3:A:809:GLY:C	3:A:810:GLU:OE1	2.55	0.44
4:B:97:THR:N	4:B:422:GLN:CD	2.70	0.44
4:B:131:ARG:O	4:B:132:GLY:C	2.55	0.44
4:B:183:LEU:O	4:B:184:VAL:C	2.53	0.44
4:B:260:ARG:HA	4:B:260:ARG:HD2	1.48	0.44
4:B:280:VAL:CG2	4:B:281:VAL:N	2.76	0.44
4:B:302:SER:HB2	4:B:309:VAL:HG13	1.99	0.44
4:B:519:HIS:C	4:B:865:ILE:HG22	2.32	0.44
4:B:542:ALA:H	4:B:833:VAL:HA	1.83	0.44
4:B:542:ALA:C	4:B:833:VAL:HG12	2.38	0.44
4:B:548:GLN:CB	4:B:753:PRO:HB2	2.47	0.44
4:B:657:GLY:N	4:B:668:ASN:ND2	2.66	0.44
4:B:675:THR:CG2	4:B:683:GLU:HG3	2.48	0.44
4:B:1017:LEU:C	4:B:1020:ALA:H	2.20	0.44
5:C:34:THR:HG22	5:C:180:VAL:HG21	2.00	0.44
5:C:76:LEU:H	5:C:76:LEU:CD1	2.26	0.44
5:C:217:LEU:HA	5:C:220:LEU:HD13	1.99	0.44
6:E:63:PHE:HB3	6:E:99:ARG:HG2	1.99	0.44
6:E:65:PRO:HG3	6:E:93:VAL:HA	1.99	0.44
8:G:92:ILE:HA	8:G:92:ILE:HD12	1.59	0.44
8:G:110:LEU:HD12	8:G:152:ARG:H	1.82	0.44
8:G:173:TYR:HA	8:G:176:ARG:CB	2.47	0.44
8:G:311:ASP:O	8:G:312:GLN:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:325:VAL:HG21	8:G:384:VAL:HG21	1.98	0.44
9:X:57:VAL:HG12	9:X:90:TYR:HA	1.99	0.44
9:X:98:VAL:CG1	9:X:99:GLU:N	2.80	0.44
9:X:212:VAL:HG12	9:X:214:LYS:N	2.32	0.44
9:Y:78:LEU:HD21	9:Y:88:ARG:HH11	1.82	0.44
9:Y:179:ILE:O	9:Y:179:ILE:HG22	2.17	0.44
9:Y:209:LYS:C	9:Y:210:ILE:HD12	2.38	0.44
9:Y:212:VAL:HG12	9:Y:214:LYS:N	2.32	0.44
1:1:69:DA:N6	2:2:57:DT:O4	2.50	0.44
1:1:86:DG:N1	1:1:87:DA:C6	2.85	0.44
1:1:106:DG:H5'	1:1:106:DG:H8	1.81	0.44
2:2:7:DT:C2	2:2:8:DC:C4	3.05	0.44
2:2:45:DA:P	2:2:45:DA:C3'	3.06	0.44
2:2:50:DG:N1	2:2:51:DT:N3	2.66	0.44
2:2:59:DG:H3'	2:2:60:DC:C5	2.52	0.44
3:A:64:GLU:OE2	3:A:102:LEU:HA	2.17	0.44
3:A:104:LYS:HA	4:B:557:GLN:HB2	2.00	0.44
3:A:161:TYR:CZ	3:A:307:LEU:O	2.70	0.44
3:A:168:ASN:C	3:A:168:ASN:OD1	2.54	0.44
3:A:254:GLN:C	3:A:256:LEU:N	2.69	0.44
3:A:257:LEU:HG	3:A:258:ASP:H	1.82	0.44
3:A:303:TYR:O	3:A:304:LEU:C	2.53	0.44
3:A:432:PRO:O	3:A:433:ILE:HD13	2.16	0.44
3:A:495:ILE:HG23	3:A:496:PRO:HD2	1.99	0.44
3:A:597:ASP:OD1	3:A:662:ARG:CD	2.66	0.44
3:A:740:ILE:HD12	3:A:740:ILE:N	2.33	0.44
3:A:774:THR:O	3:A:799:VAL:HG22	2.17	0.44
3:A:797:ARG:NE	3:A:798:ASP:N	2.63	0.44
3:A:854:GLY:HA3	3:A:858:ASN:HD22	1.82	0.44
3:A:882:ILE:HD13	3:A:882:ILE:HG21	1.31	0.44
3:A:902:LEU:N	3:A:902:LEU:CD2	2.77	0.44
3:A:993:ARG:NH2	3:A:996:GLY:C	2.71	0.44
3:A:1033:THR:O	3:A:1034:LEU:O	2.35	0.44
3:A:1038:LEU:CD1	6:E:352:LYS:NZ	2.79	0.44
3:A:1075:ARG:HD2	6:E:103:MET:CE	2.48	0.44
4:B:11:GLY:HA2	4:B:14:ARG:HB2	1.97	0.44
4:B:24:TYR:CD1	4:B:24:TYR:N	2.81	0.44
4:B:41:PHE:HD1	4:B:41:PHE:HA	1.57	0.44
4:B:57:MET:O	4:B:141:VAL:HG21	2.18	0.44
4:B:86:THR:O	4:B:90:ARG:HG3	2.17	0.44
4:B:332:MET:CE	4:B:332:MET:CA	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:416:GLN:O	4:B:418:VAL:HG23	2.18	0.44
4:B:490:LEU:O	4:B:895:ARG:NE	2.50	0.44
4:B:546:LEU:N	4:B:830:LEU:H	2.09	0.44
4:B:591:LEU:HG	4:B:592:ILE:O	2.17	0.44
4:B:605:LYS:HG3	4:B:605:LYS:O	2.17	0.44
4:B:616:LYS:C	4:B:618:LYS:N	2.71	0.44
4:B:646:LEU:CD2	4:B:662:LYS:N	2.78	0.44
4:B:687:LYS:HD3	4:B:781:ARG:NH2	2.33	0.44
4:B:718:VAL:HG22	4:B:719:ALA:N	2.32	0.44
4:B:775:PRO:CD	4:B:790:LEU:HA	2.43	0.44
4:B:1172:GLN:O	4:B:1176:VAL:HG23	2.18	0.44
5:C:45:LEU:HA	5:C:45:LEU:HD23	1.33	0.44
5:C:195:LEU:N	5:C:195:LEU:CD1	2.74	0.44
6:E:145:TYR:CE2	6:E:167:TRP:CG	3.06	0.44
6:E:277:ARG:CG	6:E:278:ARG:N	2.78	0.44
6:E:401:ILE:HG13	6:E:402:LYS:H	1.81	0.44
7:F:33:VAL:O	7:F:36:ALA:N	2.47	0.44
9:X:43:ARG:HD2	9:X:44:VAL:H	1.82	0.44
9:Y:51:ALA:HA	9:Y:69:LEU:O	2.16	0.44
9:Y:81:LEU:HB3	9:Y:86:SER:OG	2.18	0.44
9:Y:98:VAL:CG1	9:Y:99:GLU:N	2.80	0.44
1:1:80:DA:N3	1:1:80:DA:O4'	2.45	0.44
1:1:100:DA:C4	8:G:204:TYR:CZ	3.01	0.44
2:2:4:DG:C5	2:2:5:DC:C4	3.06	0.44
2:2:40:DC:C4'	2:2:41:DC:H5'	2.47	0.44
3:A:192:LYS:CG	3:A:193:LEU:H	2.27	0.44
3:A:251:LEU:HA	3:A:251:LEU:HD23	1.19	0.44
3:A:252:GLY:CA	3:A:255:GLN:NE2	2.63	0.44
3:A:410:LEU:HD23	3:A:415:ALA:HB2	1.99	0.44
3:A:427:TYR:HA	3:A:534:ILE:HD12	1.99	0.44
3:A:590:ILE:CG2	3:A:670:ALA:N	2.80	0.44
3:A:620:LYS:HG2	3:A:630:GLN:CA	2.48	0.44
3:A:639:VAL:CG2	3:A:653:GLN:HB2	2.47	0.44
3:A:642:TYR:N	3:A:651:LEU:O	2.45	0.44
3:A:705:SER:HG	3:A:708:LEU:H	1.65	0.44
3:A:739:GLU:OE1	3:A:739:GLU:HA	2.17	0.44
3:A:776:LYS:HB2	3:A:800:ARG:H	1.83	0.44
3:A:886:PRO:CB	4:B:50:SER:HA	2.47	0.44
3:A:968:PHE:HZ	3:A:972:VAL:CG2	2.08	0.44
3:A:973:THR:O	3:A:974:ILE:HD13	2.18	0.44
3:A:1001:VAL:HG13	3:A:1002:THR:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1087:HIS:CB	3:A:1097:SER:O	2.64	0.44
4:B:60:PRO:O	4:B:62:LYS:N	2.50	0.44
4:B:149:ASP:O	4:B:151:GLN:O	2.35	0.44
4:B:327:GLY:O	4:B:328:THR:C	2.54	0.44
4:B:378:PHE:CZ	4:B:423:LEU:O	2.71	0.44
4:B:412:ILE:CA	4:B:424:LEU:HD22	2.45	0.44
4:B:481:TRP:CD1	4:B:970:ARG:O	2.70	0.44
4:B:523:VAL:HG23	4:B:860:LYS:O	2.17	0.44
4:B:545:VAL:CA	4:B:829:ARG:HD3	2.42	0.44
4:B:574:LEU:HD23	4:B:578:PRO:CD	2.47	0.44
4:B:600:THR:O	4:B:784:SER:HA	2.16	0.44
4:B:646:LEU:HB2	4:B:662:LYS:HG2	1.99	0.44
4:B:882:GLY:O	4:B:899:VAL:HG23	2.18	0.44
4:B:919:GLY:H	4:B:941:VAL:HA	1.82	0.44
4:B:1022:LYS:HE2	4:B:1091:HIS:CG	2.52	0.44
5:C:63:HIS:CD2	5:C:64:GLU:N	2.86	0.44
5:C:138:MET:HE3	5:C:138:MET:HB3	1.60	0.44
5:D:19:HIS:CD2	5:D:202:GLY:HA2	2.53	0.44
5:D:82:MET:O	5:D:83:LYS:C	2.56	0.44
5:D:108:THR:HG22	5:D:126:TYR:HA	1.99	0.44
5:D:142:ILE:CG2	5:D:143:GLU:N	2.77	0.44
5:D:166:ILE:HG21	5:D:166:ILE:HD13	1.38	0.44
6:E:28:ARG:HE	6:E:102:ARG:NE	2.15	0.44
6:E:140:VAL:H	6:E:140:VAL:HG22	1.21	0.44
6:E:197:LEU:HD23	6:E:242:GLU:HA	1.98	0.44
6:E:225:ILE:O	6:E:226:LYS:C	2.53	0.44
6:E:300:ARG:O	6:E:302:GLU:N	2.51	0.44
6:E:312:ALA:O	6:E:315:ASP:N	2.51	0.44
6:E:385:GLN:OE1	6:E:385:GLN:CA	2.63	0.44
6:E:412:ASP:O	6:E:413:PRO:C	2.56	0.44
6:E:450:GLU:N	6:E:450:GLU:CD	2.58	0.44
6:E:477:VAL:HG22	6:E:478:PRO:N	2.28	0.44
6:E:487:ALA:O	6:E:489:LEU:N	2.51	0.44
6:E:495:ASN:OD1	6:E:495:ASN:C	2.48	0.44
6:E:512:ASP:CG	6:E:513:MET:N	2.63	0.44
6:E:542:ILE:HA	6:E:542:ILE:HD13	1.33	0.44
7:F:32:THR:HG23	7:F:32:THR:H	1.39	0.44
8:G:284:ILE:O	8:G:285:SER:C	2.53	0.44
8:G:320:GLU:CG	8:G:321:ASP:N	2.81	0.44
1:1:74:DT:N3	2:2:53:DT:C4	2.86	0.44
2:2:7:DT:C4	2:2:8:DC:C4	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:32:DA:C6	2:2:33:DA:C6	3.06	0.44
3:A:166:ILE:HG23	3:A:172:TRP:HE1	1.81	0.44
3:A:218:TYR:O	3:A:219:PHE:CG	2.71	0.44
3:A:218:TYR:C	3:A:219:PHE:CG	2.86	0.44
3:A:261:PHE:C	3:A:262:PHE:CD1	2.91	0.44
3:A:334:ASN:O	3:A:336:VAL:N	2.50	0.44
3:A:440:ASN:OD1	3:A:440:ASN:N	2.45	0.44
3:A:797:ARG:HG3	3:A:798:ASP:N	2.29	0.44
3:A:797:ARG:NH2	3:A:798:ASP:CG	2.70	0.44
3:A:889:VAL:O	4:B:140:LEU:HD11	2.17	0.44
3:A:1091:THR:C	3:A:1093:ALA:N	2.67	0.44
4:B:220:ILE:CD1	4:B:221:PRO:HD2	2.48	0.44
4:B:447:SER:HB2	4:B:992:ASP:OD1	2.17	0.44
4:B:463:LYS:HD3	4:B:472:THR:HA	2.00	0.44
4:B:489:ASN:HA	4:B:895:ARG:HB3	2.00	0.44
4:B:575:ARG:CG	4:B:794:GLN:HG3	2.41	0.44
4:B:603:PHE:H	4:B:781:ARG:NH1	2.14	0.44
4:B:631:TRP:CD1	4:B:633:PRO:HD3	2.52	0.44
4:B:651:GLY:CA	4:B:731:PRO:HB2	2.48	0.44
4:B:652:GLN:HB3	4:B:732:GLU:OE2	2.17	0.44
4:B:664:ILE:CG2	4:B:665:PHE:N	2.81	0.44
4:B:688:PRO:CG	4:B:739:ARG:HG2	2.46	0.44
4:B:913:LYS:HZ2	4:B:914:PRO:HD2	1.80	0.44
5:C:151:VAL:CG1	5:C:151:VAL:O	2.58	0.44
5:C:183:VAL:CG2	5:C:192:ASP:H	2.31	0.44
5:C:202:GLY:C	5:C:204:ILE:H	2.20	0.44
5:C:206:PRO:O	5:C:209:ALA:HB3	2.18	0.44
5:C:210:LEU:HB3	5:D:224:LEU:O	2.18	0.44
5:D:51:THR:O	5:D:52:ALA:HB2	2.18	0.44
5:D:69:PRO:O	5:D:71:VAL:HG12	2.17	0.44
5:D:90:TYR:HA	5:D:144:ARG:HH22	1.83	0.44
5:D:148:TYR:HA	5:D:169:ILE:HA	1.98	0.44
6:E:116:TRP:C	6:E:118:LEU:N	2.59	0.44
6:E:134:ARG:H	6:E:137:GLU:CB	2.27	0.44
6:E:175:TYR:C	6:E:177:GLU:N	2.71	0.44
6:E:259:MET:C	6:E:260:VAL:HG23	2.38	0.44
6:E:332:LYS:HZ2	8:G:297:ARG:NH2	2.03	0.44
6:E:461:CYS:HB2	6:E:462:PRO:HD3	1.99	0.44
6:E:481:LEU:N	6:E:481:LEU:CD2	2.67	0.44
6:E:550:ILE:HD12	6:E:610:PRO:HG2	1.92	0.44
8:G:127:ASP:CB	8:G:129:ARG:HD3	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:135:GLU:C	8:G:137:VAL:N	2.69	0.44
9:X:144:ASP:O	9:X:148:ARG:CG	2.65	0.44
1:1:73:DA:C4	2:2:54:DA:C6	3.05	0.44
1:1:86:DG:N9	1:1:87:DA:C8	2.86	0.44
1:1:90:DA:C4	1:1:91:DT:C6	3.06	0.44
1:1:105:DG:H1'	8:G:86:LEU:HD11	1.99	0.44
1:1:106:DG:H5"	8:G:171:LYS:HD3	2.00	0.44
3:A:96:TYR:CD2	3:A:115:PHE:HB3	2.52	0.44
3:A:100:ARG:CG	3:A:101:LEU:N	2.60	0.44
3:A:165:LEU:CD2	3:A:165:LEU:N	2.80	0.44
3:A:217:GLU:HB2	3:A:221:LYS:H	1.82	0.44
3:A:358:VAL:O	3:A:360:THR:N	2.51	0.44
3:A:392:PRO:HG2	3:A:393:LEU:H	1.82	0.44
3:A:654:LYS:CE	5:C:77:GLU:HG2	2.29	0.44
3:A:866:LEU:HD23	3:A:867:PRO:HD3	1.99	0.44
3:A:886:PRO:HG2	3:A:887:LEU:H	1.82	0.44
4:B:5:ASN:O	4:B:6:ARG:CG	2.65	0.44
4:B:37:LYS:HG3	4:B:37:LYS:HZ3	1.23	0.44
4:B:88:VAL:CG2	4:B:369:ARG:HB3	2.43	0.44
4:B:268:LEU:O	4:B:269:ALA:O	2.35	0.44
4:B:310:ASP:C	4:B:311:LEU:HG	2.38	0.44
4:B:397:PRO:HB2	4:B:399:PRO:CD	2.42	0.44
4:B:417:GLN:C	4:B:419:LYS:N	2.66	0.44
4:B:915:LYS:HD2	4:B:930:PRO:HG2	1.99	0.44
4:B:927:GLU:HA	4:B:933:PHE:CD1	2.52	0.44
4:B:1124:GLU:O	4:B:1125:VAL:C	2.55	0.44
5:D:19:HIS:CB	5:D:200:THR:HG22	2.41	0.44
5:D:35:THR:O	5:D:39:ALA:N	2.47	0.44
5:D:63:HIS:HD2	5:D:65:PHE:HD2	1.65	0.44
6:E:42:PRO:HA	6:E:57:LEU:HD21	1.99	0.44
6:E:232:ASP:N	6:E:232:ASP:OD1	2.42	0.44
6:E:449:VAL:C	6:E:450:GLU:OE2	2.56	0.44
6:E:455:GLN:HG2	6:E:455:GLN:H	1.51	0.44
8:G:103:LEU:HD23	8:G:103:LEU:HA	1.58	0.44
8:G:120:LEU:CD2	8:G:136:ALA:HB2	2.44	0.44
8:G:164:ARG:O	8:G:165:LEU:HB3	2.17	0.44
8:G:326:LEU:HD12	8:G:326:LEU:C	2.38	0.44
8:G:340:ARG:NH2	8:G:369:GLU:HB2	2.32	0.44
9:X:48:LEU:H	9:X:100:LEU:HA	1.83	0.44
9:X:81:LEU:HB2	9:X:86:SER:OG	2.18	0.44
9:X:197:LEU:HD23	9:X:203:ILE:HG13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:144:ASP:CG	9:Y:146:GLY:H	2.21	0.44
9:Y:148:ARG:HH11	9:Y:183:ILE:HA	1.82	0.44
1:1:115:DA:N6	2:2:10:DG:C6	2.86	0.44
2:2:7:DT:H4'	2:2:8:DC:OP1	2.17	0.44
2:2:31:DA:N6	2:2:32:DA:C6	2.86	0.44
2:2:41:DC:H4'	2:2:42:DT:C5'	2.42	0.44
3:A:32:GLU:OE2	3:A:33:ILE:N	2.50	0.44
3:A:96:TYR:HB3	3:A:113:GLU:OE1	2.18	0.44
3:A:138:VAL:CG1	3:A:383:LEU:HD23	2.48	0.44
3:A:206:ASP:OD1	3:A:207:ASN:N	2.50	0.44
3:A:242:LEU:HG	3:A:243:ARG:N	2.33	0.44
3:A:365:VAL:O	3:A:365:VAL:HG13	2.17	0.44
3:A:487:ASP:OD1	3:A:512:TYR:OH	2.21	0.44
3:A:552:ARG:NH1	3:A:555:MET:CE	2.81	0.44
3:A:682:LEU:N	3:A:682:LEU:CD2	2.79	0.44
3:A:712:ASP:O	3:A:715:THR:HG23	2.17	0.44
3:A:719:ILE:HA	3:A:841:ALA:HA	1.98	0.44
3:A:757:ILE:HG22	3:A:758:ARG:N	2.33	0.44
3:A:764:GLU:HB3	3:A:765:ALA:H	1.67	0.44
3:A:810:GLU:N	3:A:810:GLU:CD	2.70	0.44
3:A:1006:LEU:HD12	3:A:1006:LEU:HA	1.61	0.44
3:A:1055:ILE:O	3:A:1056:VAL:C	2.54	0.44
3:A:1058:GLY:C	7:F:43:ARG:HH21	2.18	0.44
3:A:1079:SER:O	3:A:1079:SER:OG	2.12	0.44
4:B:53:VAL:O	4:B:56:LEU:HB2	2.17	0.44
4:B:69:ALA:HA	4:B:419:LYS:HB2	1.99	0.44
4:B:118:PRO:O	4:B:119:LEU:HB2	2.17	0.44
4:B:144:ARG:HB2	4:B:159:ILE:CB	2.36	0.44
4:B:232:LEU:HA	4:B:232:LEU:HD13	1.34	0.44
4:B:453:VAL:H	4:B:987:LEU:HA	1.83	0.44
4:B:523:VAL:O	4:B:525:LEU:N	2.50	0.44
4:B:544:VAL:HG21	4:B:832:LEU:HB3	2.00	0.44
4:B:561:ASN:HA	4:B:574:LEU:HD22	1.99	0.44
4:B:638:GLU:N	4:B:638:GLU:CD	2.71	0.44
4:B:653:TYR:CE1	4:B:670:GLY:O	2.71	0.44
4:B:709:GLN:O	4:B:719:ALA:HB3	2.18	0.44
4:B:1033:GLY:CA	4:B:1052:ILE:HD12	2.47	0.44
4:B:1159:ASP:HA	4:B:1180:MET:SD	2.54	0.44
4:B:1226:GLU:HG3	6:E:233:ASN:ND2	2.27	0.44
5:C:50:GLY:O	5:C:144:ARG:HA	2.18	0.44
5:C:51:THR:O	5:C:52:ALA:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C:58:ILE:HD13	5:C:58:ILE:HA	1.45	0.44
5:C:159:THR:C	5:C:163:PHE:HB2	2.37	0.44
5:C:206:PRO:O	5:C:209:ALA:CB	2.66	0.44
5:D:67:THR:HG23	5:D:68:VAL:N	2.33	0.44
5:D:69:PRO:O	5:D:71:VAL:N	2.51	0.44
5:D:80:MET:C	5:D:82:MET:H	2.21	0.44
5:D:186:ASP:HA	5:D:189:ILE:C	2.38	0.44
5:D:205:SER:CA	5:D:208:GLU:OE2	2.65	0.44
5:D:206:PRO:O	5:D:209:ALA:CB	2.66	0.44
6:E:139:ILE:HD13	6:E:139:ILE:HA	1.36	0.44
6:E:245:VAL:HG13	6:E:246:MET:N	2.27	0.44
6:E:422:VAL:CG1	6:E:423:ILE:N	2.79	0.44
6:E:518:TYR:CD1	6:E:519:TYR:N	2.85	0.44
6:E:589:LYS:O	6:E:590:TYR:CD1	2.70	0.44
8:G:103:LEU:HB3	8:G:158:MET:HE3	1.99	0.44
8:G:376:LEU:HA	8:G:381:ARG:HB3	2.00	0.44
9:X:29:GLU:HB2	9:X:32:LYS:HE3	2.00	0.44
9:X:58:TYR:CG	9:X:59:GLU:N	2.86	0.44
9:Y:54:LEU:HD21	9:Y:90:TYR:HB3	2.00	0.44
9:Y:62:GLU:OE2	9:Y:64:ILE:CG1	2.66	0.44
1:1:76:DC:N3	2:2:50:DG:C6	2.79	0.44
1:1:78:DA:C4	1:1:79:DA:N7	2.86	0.44
1:1:82:DT:H2"	1:1:83:DC:H5'	2.00	0.44
2:2:44:DA:OP2	2:2:44:DA:H8	2.00	0.44
2:2:63:DC:H41	9:Y:187:ARG:CD	2.19	0.44
3:A:198:LEU:CD1	3:A:298:LEU:HB3	2.48	0.44
3:A:220:GLN:HB2	3:A:221:LYS:CD	2.40	0.44
3:A:513:ARG:C	3:A:514:GLN:NE2	2.72	0.44
3:A:586:SER:OG	3:A:587:GLY:C	2.55	0.44
3:A:624:ASN:ND2	3:A:627:LEU:HD22	2.33	0.44
3:A:721:LYS:O	3:A:722:TYR:HD1	1.95	0.44
3:A:776:LYS:HG2	3:A:800:ARG:CZ	2.48	0.44
3:A:788:LEU:O	3:A:789:ARG:O	2.36	0.44
3:A:791:ILE:HG23	8:G:377:ARG:CG	2.47	0.44
3:A:882:ILE:O	3:A:883:VAL:HB	2.18	0.44
3:A:1000:LEU:HA	3:A:1000:LEU:HD13	1.51	0.44
3:A:1050:GLU:O	3:A:1053:ASN:HB3	2.17	0.44
4:B:103:GLU:HB3	4:B:354:ASP:OD2	2.18	0.44
4:B:198:ARG:NH1	6:E:346:ARG:NH2	2.65	0.44
4:B:240:LEU:HD12	4:B:241:GLY:H	1.83	0.44
4:B:332:MET:N	4:B:332:MET:HE2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:440:LYS:HD2	4:B:1000:GLU:CA	2.48	0.44
4:B:544:VAL:HG12	4:B:546:LEU:HG	2.00	0.44
4:B:562:TYR:CD1	4:B:574:LEU:HD21	2.53	0.44
4:B:564:ILE:HG13	4:B:830:LEU:CD1	2.47	0.44
4:B:621:TYR:CB	4:B:773:ARG:HA	2.46	0.44
4:B:764:ARG:CB	4:B:807:HIS:HB2	2.47	0.44
4:B:910:ILE:CG1	4:B:912:ALA:HB3	2.48	0.44
4:B:1121:LEU:O	4:B:1124:GLU:HB3	2.17	0.44
4:B:1148:MET:HG3	4:B:1196:GLY:O	2.18	0.44
5:C:121:ILE:N	5:C:121:ILE:HD13	2.31	0.44
5:C:225:LYS:HD3	5:D:214:ALA:HB3	2.00	0.44
5:D:20:TYR:C	5:D:21:SER:OG	2.56	0.44
5:D:75:VAL:CG1	5:D:76:LEU:N	2.79	0.44
5:D:206:PRO:O	5:D:209:ALA:HB3	2.18	0.44
6:E:224:LEU:C	6:E:226:LYS:N	2.69	0.44
6:E:230:VAL:HG23	6:E:231:ILE:HG13	2.00	0.44
6:E:231:ILE:H	6:E:231:ILE:HG13	1.45	0.44
6:E:299:VAL:CG1	6:E:300:ARG:N	2.79	0.44
6:E:448:LEU:H	6:E:448:LEU:HG	1.42	0.44
6:E:451:GLY:C	6:E:452:ARG:CG	2.84	0.44
8:G:83:ARG:HD3	8:G:86:LEU:CD2	2.32	0.44
9:X:118:LEU:O	9:X:121:LEU:HB2	2.18	0.44
1:1:72:DT:H71	9:X:187:ARG:HH22	0.75	0.43
1:1:89:DA:N1	1:1:90:DA:C4	2.86	0.43
1:1:118:DG:C1'	1:1:119:DA:H2'	2.48	0.43
2:2:51:DT:C1'	2:2:52:DA:C8	3.01	0.43
3:A:26:LEU:HA	3:A:26:LEU:HD12	1.12	0.43
3:A:220:GLN:C	3:A:221:LYS:CD	2.72	0.43
3:A:371:VAL:O	3:A:375:LYS:CB	2.66	0.43
3:A:400:ARG:H	3:A:400:ARG:HG2	1.04	0.43
3:A:429:ARG:HH12	3:A:484:GLU:HG3	1.75	0.43
3:A:431:CYS:HA	3:A:534:ILE:O	2.18	0.43
3:A:612:GLY:HA2	3:A:632:GLY:CA	2.48	0.43
3:A:889:VAL:HG23	3:A:893:MET:C	2.38	0.43
3:A:1028:PHE:HD1	6:E:438:ARG:HD2	1.83	0.43
4:B:105:LEU:C	4:B:107:ASP:N	2.70	0.43
4:B:251:PRO:CG	4:B:254:LYS:HZ1	2.28	0.43
4:B:523:VAL:CB	4:B:859:VAL:HG13	2.28	0.43
4:B:562:TYR:HD1	4:B:574:LEU:HD21	1.81	0.43
4:B:619:LEU:HD23	4:B:619:LEU:H	1.83	0.43
4:B:696:ASP:HB3	4:B:698:GLU:OE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:726:GLN:CG	4:B:728:VAL:C	2.86	0.43
4:B:737:LEU:HD11	4:B:739:ARG:HG3	1.99	0.43
4:B:900:LEU:HD21	4:B:967:ARG:NH1	2.33	0.43
4:B:1245:ILE:CG2	4:B:1246:PRO:CD	2.94	0.43
6:E:182:GLN:HG2	6:E:183:GLY:N	2.30	0.43
6:E:280:ILE:O	6:E:283:ASN:HB3	2.18	0.43
6:E:296:GLU:C	6:E:298:ILE:N	2.52	0.43
6:E:308:GLU:O	6:E:311:ASP:HB3	2.18	0.43
6:E:361:VAL:H	6:E:361:VAL:HG22	1.32	0.43
6:E:428:VAL:CG1	6:E:429:MET:N	2.78	0.43
6:E:469:ASP:C	6:E:469:ASP:OD1	2.56	0.43
6:E:559:ARG:HB2	6:E:605:TYR:CE1	2.53	0.43
6:E:586:VAL:CG2	6:E:587:LEU:N	2.80	0.43
6:E:594:ARG:HB2	6:E:603:SER:N	2.30	0.43
6:E:625:SER:O	6:E:625:SER:OG	2.30	0.43
7:F:50:ALA:O	7:F:51:GLU:C	2.57	0.43
7:F:64:GLU:OE1	7:F:68:GLU:CB	2.66	0.43
9:X:196:ASP:HA	9:X:200:LYS:HB2	2.00	0.43
9:Y:53:LYS:CB	9:Y:68:LEU:HD23	2.42	0.43
9:Y:218:LEU:HA	9:Y:218:LEU:HD23	1.44	0.43
2:2:39:DT:N3	2:2:40:DC:C4	2.86	0.43
3:A:80:SER:O	3:A:81:VAL:C	2.55	0.43
3:A:130:ILE:O	3:A:131:ASN:C	2.56	0.43
3:A:217:GLU:C	3:A:218:TYR:CD1	2.92	0.43
3:A:271:ARG:O	3:A:274:ARG:HB2	2.18	0.43
3:A:385:GLN:H	3:A:385:GLN:HG3	1.58	0.43
3:A:520:THR:C	3:A:522:GLU:OE1	2.57	0.43
3:A:556:GLY:O	3:A:558:ASN:N	2.50	0.43
3:A:644:ARG:CZ	3:A:721:LYS:HB2	2.49	0.43
3:A:717:ILE:HD12	3:A:717:ILE:HG23	1.47	0.43
3:A:797:ARG:CG	3:A:798:ASP:H	2.28	0.43
3:A:801:ASP:N	3:A:801:ASP:OD1	2.45	0.43
3:A:838:VAL:HG22	3:A:839:TYR:N	2.32	0.43
3:A:839:TYR:CD1	3:A:839:TYR:N	2.70	0.43
3:A:962:GLY:O	3:A:963:ARG:C	2.55	0.43
3:A:973:THR:H	3:A:973:THR:HG23	1.51	0.43
4:B:39:LEU:HA	4:B:39:LEU:HD23	1.10	0.43
4:B:96:ASP:OD1	4:B:423:LEU:HD23	2.18	0.43
4:B:183:LEU:HD12	4:B:183:LEU:HA	1.31	0.43
4:B:194:GLY:O	4:B:195:TYR:C	2.54	0.43
4:B:250:HIS:CG	4:B:254:LYS:HG3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:258:ALA:HA	4:B:259:PRO:HD2	1.62	0.43
4:B:321:GLN:HG3	4:B:322:SER:N	2.32	0.43
4:B:361:ARG:N	4:B:392:GLU:N	2.59	0.43
4:B:479:LEU:O	4:B:481:TRP:CZ3	2.71	0.43
4:B:491:PRO:CG	4:B:494:ALA:HB2	2.42	0.43
4:B:611:VAL:HG13	4:B:614:LYS:NZ	2.33	0.43
4:B:634:GLU:CB	4:B:688:PRO:HD3	2.48	0.43
4:B:856:SER:H	4:B:873:ARG:HD3	1.82	0.43
4:B:896:ARG:C	4:B:987:LEU:HD13	2.38	0.43
4:B:1225:ILE:C	4:B:1226:GLU:CD	2.76	0.43
4:B:1225:ILE:HG21	4:B:1225:ILE:HD13	1.48	0.43
5:C:18:ASN:HB3	5:C:199:TRP:HE3	1.83	0.43
5:C:86:ILE:C	5:C:87:LEU:CG	2.86	0.43
5:C:130:ILE:HG21	5:C:136:LEU:HD11	1.96	0.43
5:C:227:ILE:HG21	5:D:6:ILE:H	1.83	0.43
5:D:13:THR:HG22	5:D:19:HIS:CA	2.48	0.43
5:D:54:THR:HA	5:D:166:ILE:HG22	1.99	0.43
5:D:72:ARG:N	5:D:73:GLU:OE1	2.51	0.43
5:D:204:ILE:HG23	5:D:204:ILE:HD12	1.41	0.43
6:E:126:SER:O	6:E:130:ASP:N	2.51	0.43
6:E:366:PRO:O	6:E:367:LYS:HB2	2.17	0.43
6:E:424:GLU:C	6:E:426:HIS:N	2.70	0.43
6:E:507:ILE:O	6:E:507:ILE:HG22	2.16	0.43
8:G:90:GLY:C	8:G:92:ILE:N	2.70	0.43
8:G:110:LEU:CD1	8:G:152:ARG:CG	2.96	0.43
8:G:212:TRP:O	8:G:215:ARG:N	2.51	0.43
9:X:183:ILE:O	9:Y:143:ARG:CD	2.65	0.43
9:Y:43:ARG:HA	9:Y:78:LEU:HB2	2.00	0.43
9:Y:46:PHE:C	9:Y:73:SER:O	2.56	0.43
9:Y:56:ARG:HG2	9:Y:64:ILE:N	2.32	0.43
9:Y:127:SER:O	9:Y:128:SER:C	2.54	0.43
1:1:60:DT:C1'	1:1:61:DT:C6	2.97	0.43
1:1:73:DA:H2"	1:1:74:DT:OP2	2.18	0.43
2:2:26:DA:C5	2:2:26:DA:P	2.96	0.43
2:2:49:DT:C2	2:2:50:DG:C5	3.05	0.43
2:2:58:DA:C4	2:2:59:DG:C8	3.05	0.43
3:A:65:LEU:HD11	3:A:364:LEU:CD1	2.49	0.43
3:A:166:ILE:C	3:A:167:PRO:O	2.55	0.43
3:A:254:GLN:O	3:A:256:LEU:N	2.51	0.43
3:A:287:ASP:C	3:A:289:VAL:N	2.68	0.43
3:A:328:VAL:CG2	3:A:329:GLY:N	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:330:GLU:O	3:A:331:LEU:O	2.36	0.43
3:A:499:GLU:O	3:A:500:ASN:CB	2.62	0.43
3:A:608:VAL:HB	3:A:615:PRO:CB	2.49	0.43
3:A:974:ILE:HG23	3:A:974:ILE:HD12	1.25	0.43
3:A:1074:MET:HE3	3:A:1084:ILE:HG21	2.01	0.43
4:B:91:PHE:C	4:B:93:LYS:N	2.69	0.43
4:B:104:ALA:O	4:B:107:ASP:CG	2.57	0.43
4:B:419:LYS:HE3	4:B:420:LYS:N	2.33	0.43
4:B:458:VAL:HG22	4:B:479:LEU:H	1.82	0.43
4:B:553:VAL:HB	4:B:562:TYR:HA	2.00	0.43
4:B:591:LEU:HB3	4:B:793:THR:HB	1.99	0.43
4:B:888:GLN:O	4:B:889:LYS:C	2.57	0.43
5:C:156:GLU:O	5:C:157:GLU:C	2.57	0.43
5:C:174:ARG:N	5:C:199:TRP:O	2.48	0.43
5:D:98:ARG:NH1	5:D:98:ARG:HG2	2.32	0.43
6:E:290:GLN:O	6:E:293:LEU:HD23	2.17	0.43
6:E:498:LEU:CB	6:E:505:PRO:HA	2.48	0.43
6:E:561:ASP:OD1	6:E:604:GLN:HB3	2.18	0.43
7:F:19:GLU:OE1	7:F:20:ASP:OD1	2.36	0.43
7:F:21:LEU:HD12	7:F:21:LEU:HA	1.36	0.43
8:G:201:GLU:N	8:G:201:GLU:OE1	2.51	0.43
8:G:214:ILE:HG23	8:G:214:ILE:HD12	1.60	0.43
9:X:36:PHE:CD1	9:X:91:HIS:HB2	2.53	0.43
9:X:170:ILE:O	9:X:210:ILE:O	2.36	0.43
9:Y:32:LYS:CB	9:Y:94:ALA:HB3	2.39	0.43
1:1:81:DT:C4	2:2:46:DT:O4	2.72	0.43
1:1:95:DT:P	8:G:230:ARG:HH22	2.41	0.43
3:A:135:ARG:HA	3:A:387:MET:HG2	1.99	0.43
3:A:166:ILE:HD12	3:A:166:ILE:N	2.32	0.43
3:A:176:GLU:HG2	3:A:177:THR:N	2.34	0.43
3:A:184:TRP:C	3:A:197:VAL:HG23	2.38	0.43
3:A:268:ASP:OD1	3:A:268:ASP:C	2.54	0.43
3:A:429:ARG:C	3:A:430:ILE:HG12	2.38	0.43
3:A:430:ILE:HG23	3:A:430:ILE:HD12	1.57	0.43
3:A:547:HIS:ND1	4:B:164:ARG:O	2.51	0.43
3:A:576:THR:O	3:A:576:THR:OG1	2.18	0.43
3:A:586:SER:OG	3:A:586:SER:O	2.24	0.43
3:A:598:VAL:CG1	3:A:661:GLU:N	2.76	0.43
3:A:602:ASP:C	3:A:604:THR:H	2.21	0.43
3:A:686:ILE:O	3:A:686:ILE:HG13	2.07	0.43
3:A:720:GLU:CG	3:A:722:TYR:CZ	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:778:GLU:CD	3:A:781:GLN:HB3	2.38	0.43
3:A:968:PHE:CG	4:B:48:GLY:HA3	2.53	0.43
3:A:1039:THR:O	3:A:1040:VAL:C	2.55	0.43
3:A:1073:LEU:HD23	3:A:1073:LEU:HA	1.58	0.43
3:A:1074:MET:H	3:A:1074:MET:HG2	1.34	0.43
4:B:11:GLY:H	4:B:14:ARG:HG3	1.83	0.43
4:B:39:LEU:O	4:B:42:ARG:HG2	2.18	0.43
4:B:119:LEU:HD11	6:E:522:ALA:CB	2.48	0.43
4:B:199:ARG:HG3	4:B:199:ARG:NH1	2.33	0.43
4:B:310:ASP:O	4:B:311:LEU:CG	2.66	0.43
4:B:326:PRO:O	4:B:328:THR:N	2.51	0.43
4:B:331:THR:O	4:B:1007:ILE:HD11	2.18	0.43
4:B:355:GLY:CA	4:B:358:LYS:HZ2	2.27	0.43
4:B:384:ILE:HD13	4:B:405:THR:OG1	2.18	0.43
4:B:503:ARG:HG2	4:B:882:GLY:CA	2.49	0.43
4:B:724:TYR:HE2	4:B:737:LEU:HD23	1.83	0.43
4:B:895:ARG:C	4:B:896:ARG:HH11	2.22	0.43
4:B:1144:ILE:HG22	4:B:1145:VAL:N	2.31	0.43
4:B:1150:ASN:OD1	4:B:1150:ASN:N	2.47	0.43
5:C:107:ILE:HB	5:C:128:ALA:H	1.83	0.43
5:C:200:THR:C	5:C:202:GLY:N	2.70	0.43
5:C:213:ALA:O	5:C:215:GLY:N	2.52	0.43
5:D:11:SER:HA	5:D:21:SER:OG	2.18	0.43
5:D:142:ILE:HD12	5:D:142:ILE:HG23	1.70	0.43
5:D:149:ARG:HD2	5:D:150:THR:N	2.33	0.43
6:E:78:ARG:HG2	6:E:80:ARG:N	2.31	0.43
6:E:125:ILE:HD12	6:E:125:ILE:HG23	1.43	0.43
6:E:163:SER:O	6:E:164:GLU:HB2	2.18	0.43
6:E:192:ALA:C	6:E:194:LEU:N	2.71	0.43
6:E:234:PHE:HD1	6:E:239:SER:CB	2.31	0.43
6:E:488:ARG:HE	6:E:488:ARG:HB3	1.34	0.43
8:G:113:LEU:O	8:G:114:GLU:C	2.56	0.43
8:G:178:LEU:HB3	8:G:179:SER:H	1.60	0.43
8:G:185:GLN:O	8:G:188:SER:CB	2.67	0.43
8:G:219:THR:H	8:G:219:THR:HG23	1.18	0.43
8:G:329:LEU:H	8:G:334:ARG:NE	2.16	0.43
9:X:42:GLU:C	9:X:78:LEU:HD12	2.39	0.43
9:X:150:VAL:HA	9:X:153:LEU:HB3	2.00	0.43
9:Y:54:LEU:HG	9:Y:55:SER:O	2.18	0.43
9:Y:96:THR:HG23	9:Y:97:PRO:O	2.18	0.43
9:Y:197:LEU:HD12	9:Y:197:LEU:C	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:74:DT:C4	2:2:53:DT:C4	3.06	0.43
1:1:79:DA:C6	1:1:80:DA:C6	3.06	0.43
1:1:87:DA:N3	1:1:88:DA:O4'	2.51	0.43
1:1:112:DG:P	1:1:112:DG:C8	3.11	0.43
2:2:37:DT:C2	2:2:38:DT:C5	3.07	0.43
3:A:175:PHE:O	3:A:176:GLU:HB3	2.18	0.43
3:A:240:ARG:HG2	3:A:241:LYS:N	2.33	0.43
3:A:263:ASP:HA	3:A:264:PRO:HD2	1.80	0.43
3:A:269:LEU:HD12	3:A:269:LEU:HA	0.95	0.43
3:A:337:ARG:HG3	3:A:338:VAL:N	2.33	0.43
3:A:451:ALA:C	3:A:452:ARG:HG2	2.27	0.43
3:A:578:LEU:HA	3:A:578:LEU:HD12	1.21	0.43
3:A:641:LYS:C	3:A:643:GLN:NE2	2.72	0.43
3:A:722:TYR:HB2	3:A:838:VAL:HG13	1.99	0.43
3:A:936:LEU:O	3:A:938:GLU:N	2.51	0.43
3:A:968:PHE:HE1	3:A:970:ARG:CB	2.26	0.43
3:A:1036:GLU:OE2	3:A:1037:LEU:CA	2.66	0.43
3:A:1072:VAL:O	3:A:1074:MET:N	2.51	0.43
4:B:3:PHE:CE1	6:E:616:ASN:ND2	2.86	0.43
4:B:5:ASN:C	6:E:612:ARG:HH11	2.22	0.43
4:B:17:ILE:O	4:B:19:TRP:N	2.51	0.43
4:B:86:THR:HG23	4:B:89:GLU:CD	2.38	0.43
4:B:173:ILE:HG22	4:B:174:ILE:N	2.31	0.43
4:B:237:THR:H	4:B:237:THR:HG23	1.23	0.43
4:B:252:LYS:HD2	4:B:252:LYS:HA	1.50	0.43
4:B:252:LYS:HE3	4:B:255:GLU:OE1	2.18	0.43
4:B:361:ARG:HA	4:B:390:ARG:O	2.17	0.43
4:B:452:GLU:O	4:B:453:VAL:C	2.57	0.43
4:B:461:GLU:HG3	4:B:461:GLU:O	2.18	0.43
4:B:490:LEU:N	4:B:895:ARG:CG	2.58	0.43
4:B:572:PHE:CE1	4:B:591:LEU:HB2	2.54	0.43
4:B:909:ASN:OD1	4:B:910:ILE:N	2.52	0.43
4:B:1014:ILE:HA	4:B:1014:ILE:HD13	1.65	0.43
4:B:1032:ARG:N	4:B:1100:LEU:HD21	2.34	0.43
5:C:69:PRO:O	5:C:71:VAL:N	2.51	0.43
5:C:80:MET:C	5:C:82:MET:H	2.21	0.43
5:C:166:ILE:HD13	5:C:166:ILE:HG21	1.38	0.43
5:C:205:SER:CA	5:C:208:GLU:OE2	2.65	0.43
5:C:216:ILE:O	5:C:220:LEU:CD1	2.67	0.43
5:D:56:VAL:O	5:D:57:ARG:NH2	2.47	0.43
5:D:58:ILE:HG23	5:D:58:ILE:HD12	1.68	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E:197:LEU:N	6:E:197:LEU:HD12	2.29	0.43
6:E:359:ARG:C	6:E:360:SER:OG	2.51	0.43
6:E:372:GLN:C	6:E:373:CYS:SG	2.96	0.43
6:E:448:LEU:HA	6:E:448:LEU:HD23	1.39	0.43
8:G:185:GLN:OE1	8:G:185:GLN:CA	2.54	0.43
8:G:366:ARG:HA	8:G:369:GLU:HB3	1.99	0.43
8:G:374:ARG:HB3	8:G:374:ARG:CZ	2.49	0.43
9:X:35:PHE:CE1	9:X:88:ARG:CG	2.90	0.43
9:X:137:ILE:O	9:X:138:GLU:HB3	2.18	0.43
9:Y:34:ILE:O	9:Y:35:PHE:HB3	2.17	0.43
9:Y:119:SER:HA	9:Y:122:MET:HB2	2.00	0.43
9:Y:196:ASP:OD1	9:Y:200:LYS:CD	2.64	0.43
1:1:61:DT:C5	1:1:62:DT:O4	2.72	0.43
1:1:71:DT:C5'	9:X:145:MET:HE1	2.48	0.43
1:1:87:DA:C6	1:1:88:DA:C5	3.06	0.43
2:2:37:DT:H2"	2:2:38:DT:H72	2.01	0.43
2:2:55:DA:C6	2:2:56:DG:C6	3.06	0.43
3:A:27:LEU:HD13	3:A:28:PRO:CD	2.48	0.43
3:A:73:LYS:O	3:A:96:TYR:HB2	2.19	0.43
3:A:111:GLU:C	3:A:111:GLU:CD	2.76	0.43
3:A:165:LEU:HD22	3:A:165:LEU:N	2.28	0.43
3:A:185:VAL:HG21	3:A:197:VAL:O	2.17	0.43
3:A:351:MET:O	3:A:352:THR:C	2.54	0.43
3:A:428:GLY:C	3:A:429:ARG:HG3	2.38	0.43
3:A:641:LYS:O	3:A:642:TYR:HB2	2.18	0.43
3:A:686:ILE:HG21	3:A:686:ILE:HD13	1.54	0.43
3:A:752:ASP:N	3:A:756:ILE:O	2.45	0.43
3:A:890:PRO:HD2	3:A:892:ARG:HB2	2.00	0.43
3:A:961:ASP:OD1	3:A:961:ASP:O	2.36	0.43
3:A:1024:ALA:O	3:A:1028:PHE:CE2	2.71	0.43
4:B:70:GLU:HB3	4:B:74:ARG:HH12	1.83	0.43
4:B:479:LEU:C	4:B:481:TRP:CH2	2.92	0.43
4:B:484:SER:HG	4:B:904:ASP:HA	1.84	0.43
4:B:525:LEU:CD1	4:B:857:LEU:HD13	2.49	0.43
4:B:552:THR:HG1	4:B:563:LEU:CG	2.31	0.43
4:B:636:THR:HB	4:B:784:SER:H	1.84	0.43
4:B:714:LEU:HB2	4:B:717:GLN:HB2	2.01	0.43
4:B:858:GLU:OE1	4:B:871:VAL:HA	2.18	0.43
4:B:1022:LYS:N	4:B:1023:PRO:HD3	2.34	0.43
4:B:1091:HIS:CG	4:B:1092:GLU:N	2.86	0.43
5:C:85:VAL:H	5:C:85:VAL:HG22	1.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:6:ILE:HA	5:D:24:ILE:O	2.18	0.43
6:E:68:ASP:HA	6:E:95:GLU:C	2.38	0.43
6:E:140:VAL:C	6:E:142:PHE:H	2.20	0.43
6:E:338:ILE:HA	6:E:344:ARG:N	2.32	0.43
6:E:401:ILE:HD13	6:E:401:ILE:HG21	1.73	0.43
6:E:405:LYS:O	6:E:406:LYS:C	2.57	0.43
6:E:570:ASP:O	6:E:570:ASP:OD1	2.36	0.43
6:E:613:VAL:H	6:E:613:VAL:HG12	1.71	0.43
7:F:65:MET:HA	7:F:69:LEU:CB	2.49	0.43
8:G:128:PRO:HB2	8:G:134:ALA:C	2.38	0.43
8:G:133:TRP:CE3	8:G:133:TRP:CA	2.99	0.43
8:G:139:LEU:CD2	8:G:144:PHE:HD1	2.30	0.43
8:G:218:ILE:HG21	8:G:218:ILE:HD13	1.70	0.43
8:G:317:LEU:HD23	8:G:317:LEU:HA	1.78	0.43
8:G:365:ILE:HG22	8:G:366:ARG:N	2.33	0.43
9:X:37:PRO:HD3	9:X:91:HIS:HB2	2.00	0.43
9:X:96:THR:HG23	9:X:97:PRO:O	2.19	0.43
9:X:209:LYS:HD3	9:X:209:LYS:HA	1.86	0.43
9:Y:37:PRO:HD3	9:Y:91:HIS:HB2	2.00	0.43
9:Y:40:PRO:HA	9:Y:88:ARG:CD	2.49	0.43
1:1:62:DT:H2'	1:1:62:DT:H6	1.16	0.43
1:1:89:DA:C2	2:2:37:DT:O2	2.72	0.43
1:1:113:DT:H2"	1:1:114:DC:H5'	2.00	0.43
1:1:117:DG:C6	1:1:118:DG:C2	3.07	0.43
1:1:117:DG:N3	1:1:118:DG:H5'	2.33	0.43
1:1:120:DT:C4	1:1:121:DG:O6	2.72	0.43
2:2:31:DA:C5	2:2:32:DA:C8	3.07	0.43
2:2:32:DA:C2	2:2:33:DA:N3	2.87	0.43
2:2:47:DT:H2"	2:2:48:DT:H6	1.82	0.43
2:2:58:DA:H1'	2:2:59:DG:N9	2.34	0.43
3:A:137:ILE:HD13	3:A:137:ILE:HA	1.41	0.43
3:A:151:SER:C	3:A:152:GLU:OE1	2.57	0.43
3:A:220:GLN:HG2	3:A:221:LYS:HB2	2.00	0.43
3:A:239:TYR:CB	3:A:248:PRO:HB3	2.47	0.43
3:A:282:ARG:C	3:A:283:LEU:O	2.53	0.43
3:A:351:MET:SD	3:A:352:THR:N	2.92	0.43
3:A:489:ARG:O	3:A:526:TYR:HB2	2.19	0.43
3:A:605:GLU:HG3	3:A:636:ARG:NH1	2.33	0.43
3:A:606:ILE:N	3:A:609:ARG:NH2	2.57	0.43
3:A:727:ARG:CZ	3:A:832:ALA:N	2.81	0.43
3:A:733:PRO:CB	3:A:735:GLU:OE2	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:806:VAL:C	3:A:807:PRO:O	2.54	0.43
3:A:816:ASP:H	3:A:839:TYR:HB2	1.84	0.43
3:A:884:LEU:HA	3:A:884:LEU:HD23	1.41	0.43
4:B:121:SER:C	4:B:123:TYR:N	2.70	0.43
4:B:417:GLN:NE2	4:B:421:GLY:HA2	2.33	0.43
4:B:560:ASN:O	4:B:560:ASN:OD1	2.37	0.43
4:B:900:LEU:HD22	4:B:905:MET:N	2.34	0.43
4:B:913:LYS:H	4:B:915:LYS:HG2	1.83	0.43
4:B:1141:ILE:O	4:B:1142:GLU:O	2.37	0.43
5:C:32:GLN:O	5:C:33:GLY:C	2.57	0.43
5:C:72:ARG:N	5:C:73:GLU:OE1	2.51	0.43
5:C:107:ILE:CD1	5:C:136:LEU:CD1	2.86	0.43
5:D:63:HIS:CD2	5:D:64:GLU:N	2.86	0.43
5:D:161:LEU:C	5:D:163:PHE:N	2.72	0.43
6:E:86:CYS:O	6:E:89:CYS:O	2.36	0.43
6:E:106:ILE:O	6:E:248:VAL:HG23	2.19	0.43
6:E:139:ILE:HD12	6:E:139:ILE:HG23	1.38	0.43
6:E:316:ASN:H	6:E:333:SER:CB	2.25	0.43
6:E:387:PHE:CD1	6:E:387:PHE:N	2.79	0.43
6:E:403:ALA:O	6:E:404:ALA:C	2.53	0.43
6:E:426:HIS:C	6:E:426:HIS:CD2	2.88	0.43
6:E:535:PHE:CE1	6:E:541:VAL:HA	2.53	0.43
6:E:582:GLY:HA3	6:E:598:GLN:H	1.84	0.43
6:E:588:TYR:O	6:E:589:LYS:C	2.56	0.43
8:G:231:LEU:HB2	8:G:236:TYR:CE2	2.51	0.43
8:G:375:LYS:HB3	8:G:381:ARG:HH21	1.84	0.43
9:X:196:ASP:HB3	9:X:202:MET:HB3	2.00	0.43
9:Y:47:LEU:CD2	9:Y:69:LEU:HB3	2.40	0.43
9:Y:204:SER:N	9:Y:211:THR:HG1	2.09	0.43
1:1:81:DT:O2	1:1:82:DT:C2	2.72	0.43
1:1:86:DG:C2	1:1:87:DA:N3	2.87	0.43
1:1:102:DA:H8	8:G:208:THR:HG21	1.75	0.43
1:1:116:DC:C5	1:1:117:DG:C6	3.07	0.43
2:2:29:DA:N9	2:2:30:DG:C8	2.87	0.43
2:2:68:DT:OP2	2:2:68:DT:H6	2.02	0.43
3:A:27:LEU:CD1	3:A:28:PRO:HD2	2.44	0.43
3:A:32:GLU:H	3:A:32:GLU:HG3	1.64	0.43
3:A:391:ASN:O	3:A:391:ASN:OD1	2.37	0.43
3:A:592:SER:OG	3:A:667:GLN:O	2.36	0.43
3:A:889:VAL:HG21	3:A:895:VAL:HB	2.01	0.43
3:A:1050:GLU:OE1	3:A:1062:PRO:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:61:SER:C	4:B:63:ARG:N	2.72	0.43
4:B:134:ILE:C	4:B:137:VAL:HG22	2.39	0.43
4:B:209:ILE:C	4:B:210:ARG:HD2	2.35	0.43
4:B:317:ILE:O	4:B:320:ALA:HB3	2.18	0.43
4:B:482:ILE:CG2	4:B:969:GLY:HA2	2.45	0.43
4:B:721:GLU:C	4:B:723:ARG:N	2.71	0.43
4:B:725:ILE:CG1	4:B:736:LEU:HB3	2.49	0.43
4:B:743:GLU:C	4:B:744:PHE:CD1	2.92	0.43
4:B:800:GLU:O	4:B:801:GLN:HB2	2.19	0.43
4:B:846:ALA:HA	4:B:852:SER:CB	2.38	0.43
4:B:855:THR:HA	4:B:873:ARG:CB	2.30	0.43
4:B:910:ILE:HB	4:B:943:VAL:CG2	2.48	0.43
5:C:218:VAL:HG13	5:D:218:VAL:HG13	2.01	0.43
5:C:221:PHE:O	5:C:224:LEU:HB2	2.19	0.43
5:D:86:ILE:C	5:D:87:LEU:CG	2.86	0.43
5:D:86:ILE:HG22	5:D:121:ILE:CG1	2.48	0.43
5:D:117:GLU:O	5:D:118:VAL:C	2.57	0.43
5:D:217:LEU:HD22	5:D:221:PHE:CE2	2.53	0.43
6:E:86:CYS:SG	6:E:89:CYS:N	2.91	0.43
6:E:99:ARG:C	6:E:101:HIS:H	2.22	0.43
6:E:256:LEU:H	6:E:256:LEU:CD1	2.30	0.43
6:E:390:ASN:C	6:E:392:LEU:N	2.66	0.43
6:E:617:LYS:O	6:E:618:ALA:C	2.56	0.43
7:F:59:LEU:HA	7:F:59:LEU:HD13	1.24	0.43
8:G:89:ILE:HG21	8:G:89:ILE:HD13	1.55	0.43
8:G:118:GLU:C	8:G:118:GLU:CD	2.78	0.43
8:G:133:TRP:CZ2	8:G:136:ALA:HA	2.54	0.43
8:G:249:LEU:CB	8:G:262:ILE:HD12	2.48	0.43
9:X:43:ARG:HG3	9:X:44:VAL:N	2.30	0.43
9:X:56:ARG:HE	9:X:66:VAL:CG1	2.22	0.43
9:Y:38:GLY:H	9:Y:87:ASP:HB2	1.84	0.43
9:Y:147:SER:O	9:Y:148:ARG:C	2.57	0.43
1:1:85:DG:C6	1:1:86:DG:C5	3.06	0.43
1:1:86:DG:C4	1:1:87:DA:C5	3.07	0.43
1:1:108:DA:H8	1:1:108:DA:H2'	1.64	0.43
1:1:109:DG:O4'	1:1:110:DC:C4	2.71	0.43
1:1:113:DT:C6	1:1:114:DC:N4	2.86	0.43
2:2:35:DA:C2'	2:2:36:DT:H71	2.49	0.43
2:2:36:DT:H6	2:2:36:DT:H2'	1.52	0.43
2:2:51:DT:H4'	2:2:52:DA:OP1	2.13	0.43
3:A:66:HIS:C	3:A:67:PHE:CD1	2.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:181:ASP:HB2	3:A:308:GLU:OE2	2.19	0.43
3:A:260:ARG:NH1	3:A:260:ARG:CG	2.80	0.43
3:A:357:GLU:C	3:A:359:LEU:N	2.70	0.43
3:A:561:ARG:C	3:A:562:GLN:HG3	2.35	0.43
3:A:683:GLY:O	3:A:978:TYR:CZ	2.71	0.43
3:A:847:GLN:O	3:A:848:VAL:C	2.54	0.43
3:A:873:TYR:HB2	3:A:877:GLY:O	2.19	0.43
4:B:36:LEU:C	4:B:36:LEU:CD1	2.74	0.43
4:B:146:LEU:CD1	4:B:423:LEU:HD13	2.49	0.43
4:B:149:ASP:HB3	4:B:155:ILE:HG12	2.01	0.43
4:B:359:LEU:N	4:B:391:LYS:O	2.51	0.43
4:B:366:ARG:O	4:B:366:ARG:HG3	2.18	0.43
4:B:438:THR:C	4:B:1067:GLN:HE22	2.22	0.43
4:B:527:GLU:CB	4:B:530:PRO:HD3	2.49	0.43
4:B:551:VAL:HG13	4:B:562:TYR:HD2	1.82	0.43
4:B:879:LYS:O	4:B:880:GLU:HB3	2.17	0.43
4:B:964:VAL:HG12	4:B:966:ILE:HB	2.01	0.43
4:B:1035:GLU:OE1	4:B:1052:ILE:HB	2.19	0.43
5:D:32:GLN:HG3	5:D:36:VAL:HG21	2.00	0.43
5:D:182:GLU:OE1	5:D:191:LYS:O	2.37	0.43
5:D:204:ILE:HD13	5:D:204:ILE:HA	1.69	0.43
6:E:30:LEU:HD21	6:E:34:GLN:HG3	2.01	0.43
6:E:76:TYR:CD2	6:E:81:HIS:ND1	2.86	0.43
6:E:224:LEU:HA	6:E:224:LEU:HD13	1.33	0.43
6:E:252:ILE:HA	6:E:252:ILE:HD13	1.24	0.43
6:E:269:THR:CG2	8:G:283:PRO:HB2	2.48	0.43
6:E:573:PRO:HA	6:E:588:TYR:CE1	2.53	0.43
7:F:65:MET:HA	7:F:69:LEU:HB3	2.01	0.43
8:G:83:ARG:HG3	8:G:87:GLN:NE2	2.34	0.43
8:G:113:LEU:HD22	8:G:147:ARG:NE	2.34	0.43
8:G:190:GLY:O	8:G:192:ILE:N	2.51	0.43
8:G:315:LYS:HD3	8:G:315:LYS:HA	1.67	0.43
9:X:33:THR:HA	9:X:94:ALA:H	1.84	0.43
9:X:49:LYS:HG3	9:X:50:GLY:N	2.34	0.43
1:1:92:DT:O4	2:2:33:DA:N6	2.52	0.43
2:2:39:DT:H2'	2:2:39:DT:O5'	2.18	0.43
3:A:42:LEU:HA	3:A:42:LEU:HD12	1.22	0.43
3:A:103:ASN:OD1	3:A:107:GLY:HA2	2.19	0.43
3:A:123:THR:N	3:A:127:THR:O	2.52	0.43
3:A:184:TRP:HB2	3:A:193:LEU:HD12	1.78	0.43
3:A:185:VAL:HG21	3:A:200:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:466:VAL:HA	3:A:471:VAL:HA	2.01	0.43
3:A:616:THR:OG1	3:A:633:GLN:CD	2.55	0.43
3:A:709:VAL:HG23	3:A:714:TYR:O	2.19	0.43
3:A:763:VAL:O	3:A:764:GLU:OE2	2.37	0.43
3:A:788:LEU:HD22	8:G:389:ILE:O	2.18	0.43
3:A:887:LEU:HD12	3:A:887:LEU:C	2.29	0.43
3:A:972:VAL:HA	4:B:50:SER:HB2	2.01	0.43
3:A:1038:LEU:HD22	3:A:1038:LEU:HA	1.78	0.43
3:A:1082:LEU:H	6:E:25:TRP:HH2	1.66	0.43
4:B:18:SER:O	4:B:21:PHE:CB	2.67	0.43
4:B:72:GLU:HG3	4:B:97:THR:OG1	2.19	0.43
4:B:136:GLN:H	4:B:136:GLN:HG2	1.63	0.43
4:B:197:THR:CA	4:B:200:LEU:HD12	2.47	0.43
4:B:330:LEU:C	4:B:332:MET:N	2.66	0.43
4:B:606:PHE:CD2	4:B:606:PHE:C	2.92	0.43
4:B:651:GLY:HA2	4:B:731:PRO:CD	2.49	0.43
4:B:732:GLU:HG3	4:B:734:PRO:HD3	2.00	0.43
4:B:884:VAL:CG1	4:B:897:CYS:HB3	2.48	0.43
4:B:926:THR:O	4:B:928:LEU:N	2.52	0.43
4:B:1105:GLY:C	4:B:1107:TYR:N	2.71	0.43
4:B:1114:LEU:O	4:B:1118:GLN:HG3	2.19	0.43
4:B:1231:TRP:CG	6:E:11:TYR:CB	2.78	0.43
5:C:44:LEU:C	5:C:46:SER:H	2.21	0.43
5:C:79:ILE:HG21	5:C:79:ILE:HD13	1.61	0.43
5:C:191:LYS:C	5:C:192:ASP:OD1	2.58	0.43
5:D:210:LEU:HA	5:D:210:LEU:HD23	1.28	0.43
6:E:22:ILE:HG21	6:E:248:VAL:C	2.39	0.43
6:E:387:PHE:H	6:E:387:PHE:HD1	1.63	0.43
6:E:574:VAL:HG12	6:E:575:LYS:HG3	2.01	0.43
6:E:582:GLY:N	6:E:598:GLN:H	2.17	0.43
8:G:81:SER:OG	8:G:82:ILE:N	2.52	0.43
8:G:95:LEU:HD13	8:G:161:SER:HB2	1.99	0.43
8:G:117:ARG:CB	8:G:129:ARG:HH21	2.32	0.43
8:G:132:GLU:OE2	8:G:137:VAL:O	2.37	0.43
8:G:141:LEU:N	8:G:142:PRO:HD2	2.34	0.43
8:G:228:THR:H	8:G:228:THR:HG23	1.51	0.43
9:X:48:LEU:O	9:X:71:GLU:HA	2.19	0.43
9:X:167:GLY:O	9:X:169:THR:HG23	2.19	0.43
9:X:206:HIS:O	9:X:207:LYS:HB2	2.19	0.43
9:Y:77:VAL:HA	9:Y:80:LEU:CD2	2.45	0.43
9:Y:201:LYS:O	9:Y:213:HIS:ND1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:201:LYS:O	9:Y:218:LEU:CB	2.67	0.43
2:2:49:DT:P	9:X:176:HIS:NE2	2.90	0.42
2:2:59:DG:C5	2:2:60:DC:N4	2.87	0.42
2:2:67:DA:O5'	2:2:67:DA:C8	2.72	0.42
3:A:64:GLU:HG2	3:A:65:LEU:N	2.33	0.42
3:A:82:GLU:H	3:A:82:GLU:HG2	1.53	0.42
3:A:140:GLN:NE2	3:A:326:ARG:HH21	2.17	0.42
3:A:153:ILE:CD1	3:A:159:ARG:HG3	2.49	0.42
3:A:178:ASP:O	3:A:179:ARG:C	2.58	0.42
3:A:196:GLN:OE1	3:A:229:PHE:HE2	1.98	0.42
3:A:198:LEU:CD2	3:A:298:LEU:HB3	2.46	0.42
3:A:206:ASP:HB2	3:A:210:PHE:HD1	1.84	0.42
3:A:278:ASN:O	3:A:281:LEU:N	2.52	0.42
3:A:330:GLU:HA	3:A:333:GLN:HB3	2.00	0.42
3:A:366:ASN:OD1	3:A:367:PRO:N	2.52	0.42
3:A:369:PRO:O	3:A:370:LEU:C	2.54	0.42
3:A:402:LEU:H	3:A:402:LEU:HG	1.67	0.42
3:A:464:ARG:O	3:A:526:TYR:HD1	2.02	0.42
3:A:575:GLY:O	3:A:915:LYS:HA	2.19	0.42
3:A:585:ASP:N	3:A:585:ASP:OD1	2.46	0.42
3:A:593:ARG:HD3	3:A:593:ARG:HA	1.75	0.42
3:A:820:PHE:HA	3:A:824:GLN:HB2	2.01	0.42
3:A:912:VAL:HG21	3:A:914:PHE:HE1	1.82	0.42
3:A:938:GLU:HG3	3:A:938:GLU:H	1.55	0.42
3:A:1077:LEU:HA	3:A:1077:LEU:HD23	1.13	0.42
4:B:157:LEU:HG	4:B:157:LEU:O	2.18	0.42
4:B:407:GLY:C	4:B:429:LEU:HG	2.40	0.42
4:B:479:LEU:HB3	4:B:481:TRP:CZ2	2.54	0.42
4:B:550:THR:H	4:B:566:THR:CA	2.32	0.42
4:B:564:ILE:O	4:B:566:THR:HG23	2.19	0.42
4:B:629:LEU:O	4:B:743:GLU:HA	2.19	0.42
4:B:677:LYS:HE3	4:B:677:LYS:HB3	1.72	0.42
4:B:810:SER:HB2	4:B:811:PRO:HD3	2.00	0.42
4:B:1107:TYR:N	4:B:1107:TYR:CD1	2.83	0.42
4:B:1146:ARG:C	4:B:1148:MET:H	2.23	0.42
5:C:75:VAL:CG1	5:C:76:LEU:N	2.79	0.42
5:C:79:ILE:HG23	5:C:79:ILE:H	1.42	0.42
5:D:4:PHE:CE1	5:D:32:GLN:HG2	2.54	0.42
5:D:10:GLU:C	5:D:21:SER:HA	2.39	0.42
5:D:149:ARG:HD2	5:D:150:THR:O	2.19	0.42
5:D:213:ALA:O	5:D:215:GLY:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:219:ASP:HB3	5:D:220:LEU:H	1.49	0.42
6:E:31:PRO:CD	6:E:32:ASN:H	2.32	0.42
6:E:135:ASP:CB	6:E:161:LEU:HD11	2.49	0.42
6:E:221:ARG:O	6:E:224:LEU:N	2.51	0.42
6:E:266:ARG:CZ	8:G:284:ILE:HD11	2.49	0.42
6:E:285:ARG:HH11	6:E:285:ARG:HD3	1.66	0.42
6:E:411:ASN:HA	6:E:415:VAL:HG21	2.01	0.42
6:E:581:ASP:C	6:E:583:SER:H	2.22	0.42
8:G:128:PRO:HB2	8:G:134:ALA:HA	2.01	0.42
8:G:288:THR:HG23	8:G:298:LEU:HD13	2.00	0.42
8:G:323:GLU:O	8:G:324:LYS:C	2.54	0.42
9:Y:135:MET:C	9:Y:137:ILE:N	2.71	0.42
1:1:85:DG:N3	1:1:86:DG:C5'	2.80	0.42
1:1:94:DT:O2	1:1:95:DT:C6	2.72	0.42
1:1:106:DG:O6	8:G:83:ARG:HB2	2.19	0.42
2:2:3:DT:C1'	2:2:4:DG:C6	3.01	0.42
2:2:48:DT:C5	2:2:49:DT:H73	2.54	0.42
2:2:48:DT:N1	2:2:49:DT:C5	2.87	0.42
2:2:50:DG:H1'	2:2:51:DT:C5'	2.29	0.42
2:2:65:DA:H4'	2:2:66:DA:OP1	2.19	0.42
3:A:104:LYS:CD	4:B:559:ARG:NH1	2.81	0.42
3:A:151:SER:CB	3:A:161:TYR:HA	2.49	0.42
3:A:180:ASN:OD1	3:A:181:ASP:CA	2.66	0.42
3:A:335:GLN:OE1	3:A:336:VAL:N	2.52	0.42
3:A:370:LEU:C	3:A:372:ALA:N	2.70	0.42
3:A:489:ARG:N	3:A:489:ARG:HD2	2.34	0.42
3:A:854:GLY:H	3:A:858:ASN:HB2	1.83	0.42
3:A:982:LEU:O	3:A:983:VAL:C	2.56	0.42
3:A:993:ARG:HH22	3:A:996:GLY:C	2.22	0.42
3:A:1050:GLU:O	3:A:1051:ALA:C	2.53	0.42
4:B:87:GLU:O	4:B:88:VAL:C	2.57	0.42
4:B:119:LEU:HD21	6:E:522:ALA:CB	2.49	0.42
4:B:195:TYR:CG	4:B:199:ARG:NH1	2.86	0.42
4:B:210:ARG:N	4:B:210:ARG:CD	2.66	0.42
4:B:220:ILE:HD12	4:B:221:PRO:HD2	2.02	0.42
4:B:260:ARG:HG3	4:B:260:ARG:NH1	2.34	0.42
4:B:396:THR:HB	4:B:401:GLU:OE1	2.19	0.42
4:B:445:VAL:HG13	4:B:972:TYR:CD2	2.53	0.42
4:B:519:HIS:O	4:B:865:ILE:CB	2.67	0.42
4:B:550:THR:H	4:B:566:THR:N	2.16	0.42
4:B:564:ILE:CG2	4:B:572:PHE:HB2	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:659:GLU:OE2	4:B:666:CYS:N	2.52	0.42
4:B:723:ARG:CD	4:B:738:SER:HB3	2.36	0.42
4:B:725:ILE:HD12	4:B:738:SER:OG	2.19	0.42
4:B:885:ARG:HH22	4:B:967:ARG:NH2	2.17	0.42
4:B:915:LYS:HB3	4:B:916:VAL:CG2	2.49	0.42
4:B:1128:VAL:O	4:B:1129:TYR:C	2.56	0.42
5:C:40:LEU:H	5:C:40:LEU:HG	1.54	0.42
5:C:68:VAL:CG1	5:C:71:VAL:HG11	2.48	0.42
5:C:77:GLU:O	5:C:78:ILE:C	2.53	0.42
5:C:100:LEU:HD12	5:C:135:LYS:O	2.19	0.42
5:D:44:LEU:C	5:D:46:SER:H	2.21	0.42
5:D:62:SER:OG	5:D:63:HIS:CG	2.67	0.42
6:E:45:ILE:H	6:E:45:ILE:HG13	1.47	0.42
6:E:144:SER:O	6:E:145:TYR:CD1	2.72	0.42
6:E:240:LYS:HG3	6:E:242:GLU:HG2	2.01	0.42
6:E:534:TYR:HE2	6:E:605:TYR:CD2	2.37	0.42
6:E:588:TYR:HD2	6:E:591:ARG:HB3	1.84	0.42
7:F:34:GLN:O	7:F:35:VAL:C	2.54	0.42
8:G:89:ILE:HG13	8:G:90:GLY:N	2.34	0.42
8:G:169:ILE:HG22	8:G:173:TYR:HE2	1.84	0.42
9:X:78:LEU:C	9:X:80:LEU:H	2.20	0.42
9:X:154:LEU:CD1	9:X:215:PRO:HA	2.49	0.42
9:X:180:ALA:CA	9:X:185:SER:HB3	2.41	0.42
9:Y:25:VAL:O	9:Y:25:VAL:HG12	2.19	0.42
1:1:74:DT:H71	1:1:74:DT:OP2	2.19	0.42
1:1:85:DG:C6	2:2:40:DC:N4	2.81	0.42
2:2:3:DT:H1'	2:2:4:DG:OP1	2.19	0.42
2:2:11:DT:C6	2:2:12:DG:N1	2.87	0.42
3:A:64:GLU:O	3:A:102:LEU:HD22	2.18	0.42
3:A:96:TYR:CZ	3:A:115:PHE:CD1	3.08	0.42
3:A:104:LYS:HD2	4:B:559:ARG:HD2	2.01	0.42
3:A:215:HIS:CE1	3:A:309:TYR:CZ	3.07	0.42
3:A:252:GLY:CA	3:A:255:GLN:HE22	2.30	0.42
3:A:281:LEU:C	3:A:283:LEU:N	2.64	0.42
3:A:429:ARG:NH2	3:A:481:THR:O	2.52	0.42
3:A:547:HIS:O	3:A:548:ASP:OD1	2.38	0.42
3:A:572:PRO:HB3	3:A:978:TYR:CE2	2.53	0.42
3:A:640:SER:O	3:A:652:ASN:HA	2.18	0.42
3:A:682:LEU:N	3:A:682:LEU:HD22	2.29	0.42
3:A:727:ARG:HH22	3:A:829:PRO:HB2	1.83	0.42
3:A:740:ILE:H	3:A:748:LEU:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:746:ASP:O	3:A:768:ILE:HG12	2.20	0.42
3:A:787:LEU:H	3:A:787:LEU:HG	1.43	0.42
3:A:789:ARG:HH22	3:A:795:LYS:HG2	1.85	0.42
3:A:848:VAL:H	3:A:848:VAL:HG12	1.70	0.42
3:A:940:ARG:O	3:A:944:GLY:N	2.48	0.42
3:A:1088:LYS:CG	3:A:1089:VAL:N	2.81	0.42
4:B:277:VAL:CG1	4:B:278:ALA:H	2.31	0.42
4:B:311:LEU:CD1	4:B:1251:TYR:OH	2.67	0.42
4:B:370:THR:C	4:B:375:ASP:OD2	2.58	0.42
4:B:455:PHE:CA	4:B:481:TRP:CE3	2.94	0.42
4:B:513:THR:HG21	4:B:874:THR:HB	2.01	0.42
4:B:575:ARG:HH11	4:B:575:ARG:HG2	1.84	0.42
4:B:642:ASP:HA	4:B:680:ILE:CB	2.47	0.42
4:B:906:ALA:H	4:B:967:ARG:HA	1.83	0.42
4:B:921:LEU:C	4:B:938:GLY:H	2.23	0.42
4:B:1130:GLN:OE1	4:B:1133:GLY:HA2	2.19	0.42
4:B:1228:LYS:HG3	4:B:1228:LYS:O	2.18	0.42
5:C:145:GLY:HA3	5:C:170:PHE:CZ	2.54	0.42
5:D:76:LEU:H	5:D:76:LEU:CD1	2.26	0.42
5:D:151:VAL:O	5:D:152:GLU:C	2.58	0.42
5:D:208:GLU:CG	5:D:209:ALA:N	2.78	0.42
6:E:53:GLU:HG3	6:E:56:GLY:N	2.34	0.42
6:E:127:ILE:O	6:E:227:ARG:NH1	2.52	0.42
6:E:148:LEU:HD22	6:E:148:LEU:HA	1.72	0.42
6:E:284:ASN:O	6:E:287:ALA:N	2.52	0.42
6:E:414:SER:O	6:E:415:VAL:C	2.57	0.42
7:F:17:ARG:CD	7:F:67:ASP:HB3	2.49	0.42
8:G:115:ARG:CA	8:G:118:GLU:HG3	2.49	0.42
8:G:194:ALA:O	8:G:195:ALA:C	2.53	0.42
8:G:340:ARG:N	8:G:354:ILE:CD1	2.79	0.42
9:X:25:VAL:N	9:X:101:LEU:HD13	2.34	0.42
9:X:29:GLU:N	9:X:32:LYS:HD2	2.34	0.42
9:X:55:SER:OG	9:X:93:VAL:HG21	2.19	0.42
9:X:77:VAL:O	9:X:78:LEU:HD23	2.19	0.42
9:X:108:VAL:O	9:X:108:VAL:CG1	2.68	0.42
9:X:134:GLU:O	9:X:137:ILE:HB	2.19	0.42
9:X:163:PRO:HA	9:X:168:ILE:HA	2.00	0.42
9:Y:150:VAL:HA	9:Y:153:LEU:HD12	2.00	0.42
9:Y:206:HIS:N	9:Y:209:LYS:H	2.01	0.42
1:1:80:DA:C5	1:1:81:DT:C4	3.08	0.42
2:2:43:DG:C2	2:2:44:DA:C4	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:32:GLU:C	3:A:32:GLU:OE1	2.57	0.42
3:A:47:ILE:HD12	3:A:47:ILE:HG23	1.77	0.42
3:A:91:TYR:HE2	3:A:121:LEU:HG	1.83	0.42
3:A:135:ARG:CZ	3:A:384:SER:OG	2.67	0.42
3:A:235:LEU:HD22	3:A:250:VAL:HB	2.02	0.42
3:A:342:ARG:O	3:A:343:LEU:C	2.55	0.42
3:A:566:LEU:H	3:A:569:PRO:CG	2.33	0.42
3:A:592:SER:HA	3:A:669:LEU:HD11	2.01	0.42
3:A:603:ALA:HA	3:A:655:PRO:CD	2.49	0.42
3:A:633:GLN:OE1	3:A:635:ILE:HD11	2.19	0.42
3:A:931:ILE:H	3:A:931:ILE:HG13	1.67	0.42
3:A:1023:TRP:CB	6:E:436:LEU:HD12	2.49	0.42
3:A:1038:LEU:HA	3:A:1038:LEU:HD13	1.26	0.42
4:B:194:GLY:O	4:B:198:ARG:HG3	2.20	0.42
4:B:223:ARG:O	4:B:224:PRO:C	2.56	0.42
4:B:230:LYS:NZ	4:B:231:THR:C	2.73	0.42
4:B:419:LYS:HZ1	4:B:420:LYS:HE2	1.83	0.42
4:B:458:VAL:HG21	4:B:478:GLY:N	2.33	0.42
4:B:482:ILE:HG13	4:B:483:LEU:O	2.19	0.42
4:B:537:ILE:N	4:B:837:SER:C	2.73	0.42
4:B:546:LEU:H	4:B:830:LEU:N	2.12	0.42
4:B:646:LEU:N	4:B:662:LYS:HD3	2.32	0.42
4:B:659:GLU:OE1	4:B:661:VAL:N	2.52	0.42
4:B:660:VAL:O	4:B:660:VAL:HG13	2.18	0.42
4:B:687:LYS:HE2	4:B:739:ARG:NH1	2.34	0.42
4:B:703:ARG:HH12	4:B:708:LEU:HD13	1.85	0.42
4:B:795:LEU:N	4:B:795:LEU:CD1	2.72	0.42
4:B:815:ASP:HA	4:B:834:ILE:HG22	2.01	0.42
4:B:917:LYS:O	4:B:942:GLY:HA2	2.20	0.42
4:B:1129:TYR:O	4:B:1133:GLY:N	2.52	0.42
4:B:1177:ASN:O	4:B:1187:ARG:NH2	2.53	0.42
4:B:1178:GLU:O	4:B:1182:ILE:HG12	2.19	0.42
5:C:27:PRO:HD2	5:C:28:LEU:H	1.84	0.42
5:C:70:GLY:O	5:C:131:ALA:N	2.52	0.42
5:D:211:SER:O	5:D:212:SER:C	2.54	0.42
6:E:22:ILE:HA	6:E:25:TRP:CE3	2.53	0.42
6:E:23:ARG:CG	6:E:248:VAL:HG21	2.49	0.42
6:E:71:CYS:O	6:E:72:HIS:C	2.57	0.42
6:E:145:TYR:CD1	6:E:145:TYR:N	2.83	0.42
8:G:89:ILE:HG23	8:G:89:ILE:H	1.41	0.42
8:G:113:LEU:O	8:G:117:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:132:GLU:OE1	8:G:135:GLU:OE2	2.37	0.42
8:G:315:LYS:H	8:G:315:LYS:HG2	1.48	0.42
8:G:316:ASN:HA	8:G:319:ARG:HD3	1.97	0.42
8:G:348:MET:SD	8:G:348:MET:C	2.97	0.42
8:G:350:THR:OG1	8:G:352:GLU:CD	2.57	0.42
8:G:366:ARG:HB2	8:G:366:ARG:HH11	1.83	0.42
9:X:26:GLU:H	9:X:26:GLU:CD	2.22	0.42
9:Y:88:ARG:C	9:Y:90:TYR:N	2.73	0.42
9:Y:163:PRO:HA	9:Y:168:ILE:HA	2.00	0.42
9:Y:197:LEU:HD12	9:Y:198:ARG:H	1.73	0.42
1:1:62:DT:H1'	1:1:63:DG:P	2.59	0.42
1:1:88:DA:N1	2:2:37:DT:N3	2.68	0.42
1:1:97:DT:O2	1:1:98:DG:C5	2.72	0.42
1:1:108:DA:N9	1:1:109:DG:C6	2.87	0.42
1:1:113:DT:OP1	1:1:113:DT:H6	2.03	0.42
3:A:38:PHE:C	3:A:40:TRP:N	2.68	0.42
3:A:101:LEU:HA	3:A:109:ILE:CA	2.42	0.42
3:A:135:ARG:HB3	3:A:385:GLN:O	2.19	0.42
3:A:168:ASN:HB3	3:A:268:ASP:OD2	2.19	0.42
3:A:257:LEU:HD12	3:A:258:ASP:HA	2.02	0.42
3:A:294:SER:HA	3:A:297:ILE:CD1	2.50	0.42
3:A:320:LEU:O	3:A:323:ARG:HB3	2.19	0.42
3:A:430:ILE:HD13	3:A:430:ILE:HA	1.58	0.42
3:A:467:GLU:O	3:A:468:ASN:C	2.58	0.42
3:A:609:ARG:HA	3:A:635:ILE:HD11	1.97	0.42
3:A:624:ASN:CB	3:A:627:LEU:HB3	2.44	0.42
3:A:724:ILE:HA	3:A:724:ILE:HD12	1.69	0.42
3:A:757:ILE:HD12	3:A:757:ILE:HG23	1.57	0.42
3:A:772:LYS:CG	3:A:773:VAL:N	2.82	0.42
3:A:792:PHE:N	3:A:792:PHE:CD1	2.82	0.42
3:A:813:ARG:HA	3:A:813:ARG:HD3	1.58	0.42
3:A:867:PRO:HD2	3:A:870:ASP:OD2	2.20	0.42
3:A:902:LEU:HA	3:A:902:LEU:HD22	1.87	0.42
3:A:950:ASN:O	3:A:951:PRO:C	2.58	0.42
3:A:996:GLY:O	3:A:997:PRO:C	2.53	0.42
4:B:71:GLU:HA	4:B:74:ARG:NH1	2.27	0.42
4:B:362:LYS:HZ3	4:B:364:ARG:HH22	1.66	0.42
4:B:447:SER:HB2	4:B:988:VAL:HB	2.01	0.42
4:B:455:PHE:CD2	4:B:480:ILE:HG23	2.54	0.42
4:B:483:LEU:HD23	4:B:969:GLY:CA	2.45	0.42
4:B:511:ALA:HB3	4:B:876:ILE:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:572:PHE:HB3	4:B:589:ALA:CB	2.21	0.42
4:B:656:ALA:O	4:B:668:ASN:CG	2.58	0.42
4:B:895:ARG:HB2	4:B:896:ARG:NH1	2.33	0.42
4:B:901:ARG:C	4:B:903:SER:H	2.23	0.42
4:B:920:ASP:O	4:B:938:GLY:O	2.38	0.42
4:B:922:ILE:HG23	4:B:936:GLU:C	2.39	0.42
4:B:1081:GLN:OE1	4:B:1083:LEU:HA	2.19	0.42
4:B:1097:PHE:O	4:B:1101:GLY:HA3	2.20	0.42
4:B:1157:GLY:HA2	4:B:1188:ALA:HB2	2.00	0.42
4:B:1159:ASP:OD2	4:B:1180:MET:CE	2.67	0.42
4:B:1245:ILE:HG22	4:B:1247:ALA:N	2.14	0.42
5:C:63:HIS:HD2	5:C:65:PHE:HD2	1.66	0.42
5:C:63:HIS:HE2	5:C:65:PHE:HB2	1.85	0.42
5:C:149:ARG:NH1	5:C:170:PHE:CE2	2.86	0.42
5:D:68:VAL:CG1	5:D:71:VAL:HG11	2.48	0.42
5:D:79:ILE:C	5:D:82:MET:N	2.66	0.42
5:D:149:ARG:C	5:D:149:ARG:CD	2.87	0.42
5:D:170:PHE:O	5:D:172:PRO:HD3	2.20	0.42
5:D:191:LYS:C	5:D:192:ASP:OD1	2.58	0.42
6:E:195:ARG:H	6:E:195:ARG:HG2	1.72	0.42
6:E:389:ILE:HG21	6:E:389:ILE:HD13	1.49	0.42
6:E:438:ARG:HH21	6:E:500:PRO:CB	2.15	0.42
6:E:492:LEU:O	6:E:495:ASN:N	2.53	0.42
8:G:83:ARG:HD3	8:G:83:ARG:HA	1.69	0.42
8:G:286:LEU:HD12	8:G:286:LEU:HA	1.37	0.42
8:G:351:LEU:CA	8:G:354:ILE:CG2	2.64	0.42
9:X:25:VAL:O	9:X:25:VAL:HG12	2.19	0.42
9:X:69:LEU:HA	9:X:70:ARG:NH1	2.32	0.42
9:Y:25:VAL:N	9:Y:101:LEU:HD13	2.34	0.42
9:Y:43:ARG:CB	9:Y:105:ILE:HG13	2.48	0.42
9:Y:62:GLU:OE2	9:Y:64:ILE:HG12	2.19	0.42
9:Y:69:LEU:CG	9:Y:70:ARG:N	2.74	0.42
1:1:74:DT:C2	1:1:75:DA:N7	2.88	0.42
1:1:77:DA:H3'	1:1:77:DA:P	2.59	0.42
1:1:110:DC:O2	1:1:110:DC:O4'	2.38	0.42
2:2:5:DC:P	2:2:5:DC:H2'	2.60	0.42
2:2:66:DA:C1'	2:2:67:DA:N6	2.83	0.42
3:A:59:TYR:CE1	3:A:352:THR:HB	2.55	0.42
3:A:130:ILE:HG21	3:A:130:ILE:HD13	1.53	0.42
3:A:180:ASN:OD1	3:A:180:ASN:C	2.46	0.42
3:A:215:HIS:CA	3:A:219:PHE:H	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:236:MET:HB3	3:A:240:ARG:HD3	2.02	0.42
3:A:293:THR:HG1	3:A:296:ASP:H	1.68	0.42
3:A:298:LEU:O	3:A:301:VAL:CG2	2.52	0.42
3:A:490:VAL:HA	3:A:526:TYR:HB2	2.01	0.42
3:A:1017:PHE:CZ	3:A:1025:LEU:CG	3.03	0.42
3:A:1040:VAL:H	3:A:1040:VAL:HG22	1.62	0.42
3:A:1044:ASP:CB	3:A:1047:GLY:HA3	2.49	0.42
3:A:1075:ARG:O	3:A:1078:GLN:HB2	2.19	0.42
4:B:21:PHE:O	4:B:24:TYR:N	2.47	0.42
4:B:82:ARG:O	4:B:83:GLY:C	2.57	0.42
4:B:126:ALA:C	4:B:128:SER:H	2.22	0.42
4:B:149:ASP:CB	4:B:150:PRO:HD2	2.41	0.42
4:B:158:PRO:HD2	4:B:160:LYS:NZ	2.35	0.42
4:B:230:LYS:HD2	4:B:231:THR:H	1.83	0.42
4:B:233:ILE:HG22	4:B:234:LYS:O	2.20	0.42
4:B:294:VAL:HG21	4:B:299:TYR:HD1	1.85	0.42
4:B:384:ILE:HB	4:B:393:GLY:CA	2.50	0.42
4:B:414:ASP:CG	4:B:415:GLY:H	2.10	0.42
4:B:521:GLY:C	4:B:863:ASP:O	2.58	0.42
4:B:536:GLU:C	4:B:837:SER:OG	2.57	0.42
4:B:552:THR:O	4:B:561:ASN:O	2.38	0.42
4:B:707:LEU:CA	4:B:724:TYR:HA	2.49	0.42
4:B:1132:GLN:HB2	4:B:1134:ILE:HG12	2.02	0.42
5:C:40:LEU:C	5:C:42:ARG:N	2.70	0.42
5:C:86:ILE:HG22	5:C:121:ILE:CG1	2.48	0.42
5:C:216:ILE:O	5:C:220:LEU:HD12	2.19	0.42
5:D:98:ARG:HA	5:D:98:ARG:HD3	1.63	0.42
6:E:303:LYS:C	6:E:305:MET:N	2.68	0.42
6:E:502:THR:C	6:E:504:ARG:H	2.22	0.42
6:E:614:ILE:HG22	6:E:615:TYR:N	2.28	0.42
9:Y:167:GLY:O	9:Y:169:THR:HG23	2.19	0.42
9:Y:170:ILE:O	9:Y:210:ILE:O	2.38	0.42
1:1:74:DT:OP2	1:1:74:DT:H6	2.03	0.42
1:1:89:DA:N1	1:1:90:DA:C2	2.87	0.42
1:1:92:DT:O2	1:1:93:DT:C6	2.72	0.42
2:2:47:DT:H2"	2:2:48:DT:C6	2.55	0.42
3:A:53:PHE:CD2	3:A:340:LEU:CD1	3.02	0.42
3:A:75:LYS:O	3:A:93:VAL:HG22	2.20	0.42
3:A:202:LEU:HB2	3:A:207:ASN:ND2	2.35	0.42
3:A:397:THR:HG21	3:A:561:ARG:HD3	2.02	0.42
3:A:545:LEU:HA	3:A:545:LEU:HD12	1.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:873:TYR:HA	3:A:880:VAL:H	1.84	0.42
3:A:981:LYS:O	3:A:981:LYS:HG3	2.17	0.42
3:A:1004:GLN:O	3:A:1005:PRO:O	2.37	0.42
3:A:1044:ASP:O	3:A:1045:MET:O	2.38	0.42
3:A:1080:LEU:HD21	6:E:334:LEU:HD12	2.01	0.42
4:B:29:THR:O	4:B:30:ALA:O	2.37	0.42
4:B:29:THR:HG23	4:B:29:THR:H	1.41	0.42
4:B:95:ILE:O	4:B:96:ASP:C	2.56	0.42
4:B:184:VAL:O	4:B:188:LEU:HG	2.20	0.42
4:B:188:LEU:C	4:B:190:THR:HG22	2.40	0.42
4:B:411:TYR:O	4:B:424:LEU:HB3	2.20	0.42
4:B:521:GLY:CA	4:B:864:THR:HA	2.50	0.42
4:B:542:ALA:HB3	4:B:832:LEU:O	2.19	0.42
4:B:544:VAL:HG22	4:B:758:VAL:N	2.16	0.42
4:B:553:VAL:HA	4:B:561:ASN:OD1	2.19	0.42
4:B:842:ARG:O	4:B:843:ASP:HB2	2.20	0.42
4:B:1037:LYS:HE3	4:B:1051:VAL:HA	2.01	0.42
5:C:53:VAL:H	5:C:53:VAL:HG23	1.53	0.42
5:C:86:ILE:O	5:C:87:LEU:HD23	2.20	0.42
5:C:166:ILE:HG23	5:C:167:ASP:O	2.20	0.42
5:D:6:ILE:HG12	5:D:25:LEU:HG	2.01	0.42
5:D:57:ARG:HG3	5:D:139:GLU:HG2	2.01	0.42
6:E:140:VAL:CG2	6:E:141:TYR:CD2	3.01	0.42
6:E:175:TYR:HA	6:E:180:GLN:HB3	2.01	0.42
6:E:200:ILE:H	6:E:200:ILE:HG23	1.26	0.42
6:E:207:GLU:N	6:E:210:ARG:HG3	2.34	0.42
6:E:267:PHE:HD2	8:G:281:GLN:NE2	2.14	0.42
6:E:374:GLY:O	6:E:375:LEU:CB	2.66	0.42
7:F:17:ARG:HB3	7:F:66:SER:HB2	2.01	0.42
8:G:112:GLU:CD	8:G:112:GLU:C	2.77	0.42
8:G:127:ASP:OD1	8:G:127:ASP:O	2.37	0.42
8:G:138:GLN:O	8:G:139:LEU:HB2	2.20	0.42
8:G:331:PRO:HD3	8:G:334:ARG:CZ	2.49	0.42
9:X:47:LEU:CD2	9:X:69:LEU:CA	2.96	0.42
9:Y:35:PHE:HD1	9:Y:36:PHE:C	2.22	0.42
1:1:88:DA:C2	1:1:89:DA:N3	2.88	0.42
1:1:95:DT:N3	1:1:96:DC:C5	2.88	0.42
3:A:53:PHE:CZ	3:A:344:GLU:HB2	2.52	0.42
3:A:141:ILE:C	3:A:142:VAL:HG13	2.40	0.42
3:A:907:GLY:HA2	3:A:910:LEU:HB2	2.02	0.42
3:A:1018:GLY:O	3:A:1021:GLU:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:9:ASP:HB3	6:E:518:TYR:HB2	2.02	0.42
4:B:43:TYR:HD1	4:B:43:TYR:HA	0.99	0.42
4:B:66:LEU:HD21	4:B:143:MET:SD	2.60	0.42
4:B:250:HIS:CB	4:B:254:LYS:CG	2.97	0.42
4:B:388:GLU:HG3	4:B:400:GLN:HB3	2.01	0.42
4:B:419:LYS:CE	4:B:420:LYS:HE2	2.50	0.42
4:B:455:PHE:H	4:B:984:ASP:HA	1.84	0.42
4:B:489:ASN:HB3	4:B:850:GLN:CA	2.49	0.42
4:B:514:LYS:NZ	4:B:873:ARG:NH1	2.53	0.42
4:B:575:ARG:NE	4:B:590:GLU:OE1	2.53	0.42
4:B:582:VAL:HG22	4:B:586:GLN:CB	2.50	0.42
4:B:604:LEU:CA	4:B:631:TRP:CE3	3.03	0.42
4:B:609:VAL:HG12	4:B:610:GLU:N	2.35	0.42
4:B:713:GLU:H	4:B:713:GLU:HG3	1.51	0.42
4:B:746:VAL:O	4:B:746:VAL:HG23	2.20	0.42
4:B:804:GLU:O	4:B:805:GLN:C	2.58	0.42
4:B:885:ARG:CZ	4:B:898:LEU:HD21	2.50	0.42
4:B:902:HIS:O	4:B:907:THR:N	2.52	0.42
4:B:939:GLN:OE1	4:B:941:VAL:HB	2.20	0.42
4:B:981:GLN:H	4:B:995:VAL:HA	1.85	0.42
4:B:1128:VAL:CG1	4:B:1129:TYR:N	2.83	0.42
4:B:1167:LEU:HD11	4:B:1193:VAL:HG21	2.02	0.42
4:B:1180:MET:HB2	4:B:1187:ARG:NH2	2.26	0.42
4:B:1220:LEU:O	4:B:1221:THR:C	2.58	0.42
5:C:38:ASN:O	5:C:40:LEU:N	2.53	0.42
5:C:57:ARG:HG3	5:C:139:GLU:HG2	2.01	0.42
5:D:86:ILE:O	5:D:87:LEU:HD23	2.20	0.42
6:E:116:TRP:C	6:E:118:LEU:H	2.23	0.42
6:E:197:LEU:N	6:E:197:LEU:CD1	2.82	0.42
6:E:198:ALA:HA	6:E:242:GLU:CD	2.40	0.42
6:E:257:ARG:O	6:E:258:PRO:C	2.57	0.42
6:E:381:ILE:O	6:E:382:GLU:C	2.54	0.42
6:E:506:ILE:O	6:E:506:ILE:CG1	2.68	0.42
6:E:589:LYS:O	6:E:590:TYR:CG	2.73	0.42
7:F:39:ALA:HA	7:F:42:ARG:CG	2.49	0.42
8:G:98:ASP:O	8:G:101:ILE:HB	2.19	0.42
8:G:196:GLU:HG3	8:G:196:GLU:H	1.53	0.42
8:G:196:GLU:OE2	8:G:197:LYS:N	2.53	0.42
9:X:56:ARG:NH1	9:X:90:TYR:CE2	2.83	0.42
9:X:88:ARG:C	9:X:90:TYR:N	2.72	0.42
9:X:176:HIS:C	9:X:179:ILE:HB	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:75:DA:N1	2:2:52:DA:N3	2.68	0.42
1:1:91:DT:H6	1:1:91:DT:H2'	1.44	0.42
1:1:99:DT:H2"	8:G:212:TRP:CD2	2.55	0.42
2:2:7:DT:H6	2:2:7:DT:H2'	1.67	0.42
2:2:59:DG:C3'	2:2:60:DC:H6	2.33	0.42
3:A:40:TRP:CG	3:A:41:PHE:N	2.76	0.42
3:A:147:VAL:CG2	3:A:148:TYR:N	2.81	0.42
3:A:338:VAL:HG23	3:A:339:GLY:N	2.34	0.42
3:A:535:VAL:HB	3:A:539:THR:OG1	2.20	0.42
3:A:596:GLY:N	3:A:662:ARG:HH22	2.08	0.42
3:A:691:MET:CG	3:A:972:VAL:HG21	2.47	0.42
3:A:820:PHE:HE2	3:A:837:ARG:HH11	1.67	0.42
3:A:935:LYS:O	3:A:938:GLU:N	2.53	0.42
3:A:1037:LEU:HD23	3:A:1037:LEU:O	2.19	0.42
4:B:168:THR:OG1	4:B:169:VAL:HG22	2.19	0.42
4:B:228:GLY:C	4:B:230:LYS:N	2.70	0.42
4:B:256:VAL:C	4:B:257:ILE:HD13	2.40	0.42
4:B:259:PRO:CG	4:B:260:ARG:N	2.78	0.42
4:B:303:LEU:HB3	6:E:502:THR:C	2.39	0.42
4:B:325:GLU:HB2	4:B:326:PRO:HD3	2.02	0.42
4:B:369:ARG:NH1	4:B:1000:GLU:CD	2.73	0.42
4:B:439:GLU:HB3	4:B:1067:GLN:CD	2.39	0.42
4:B:581:LYS:HD2	4:B:816:ILE:HG23	2.01	0.42
4:B:587:VAL:HA	4:B:794:GLN:OE1	2.20	0.42
4:B:661:VAL:HG22	4:B:664:ILE:O	2.19	0.42
4:B:860:LYS:HA	4:B:860:LYS:HD2	1.82	0.42
4:B:921:LEU:HA	4:B:938:GLY:CA	2.50	0.42
4:B:1091:HIS:HA	4:B:1094:LEU:HD23	2.01	0.42
4:B:1121:LEU:HA	4:B:1121:LEU:HD12	0.95	0.42
5:C:13:THR:CB	5:C:206:PRO:HD2	2.42	0.42
5:C:94:ALA:O	5:C:96:ILE:HD12	2.20	0.42
5:C:170:PHE:O	5:C:172:PRO:HD3	2.20	0.42
5:C:208:GLU:O	5:C:209:ALA:C	2.53	0.42
5:D:207:GLN:O	5:D:209:ALA:N	2.53	0.42
6:E:81:HIS:CD2	6:E:84:ILE:CG2	3.03	0.42
6:E:125:ILE:C	6:E:129:LEU:HD13	2.39	0.42
6:E:228:LEU:HD13	6:E:228:LEU:HA	1.30	0.42
6:E:349:LEU:HA	6:E:349:LEU:HD12	1.29	0.42
6:E:386:PRO:O	6:E:389:ILE:HG23	2.19	0.42
6:E:542:ILE:HG23	6:E:542:ILE:HD12	1.47	0.42
8:G:110:LEU:CD1	8:G:152:ARG:HG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:215:ARG:O	8:G:219:THR:HG23	2.20	0.42
8:G:225:GLN:C	8:G:227:ARG:N	2.73	0.42
8:G:227:ARG:O	8:G:229:ILE:N	2.53	0.42
8:G:257:PRO:O	8:G:259:GLU:HG2	2.20	0.42
1:1:72:DT:O4	9:X:187:ARG:NH2	2.44	0.42
1:1:88:DA:C6	2:2:37:DT:C2	3.08	0.42
2:2:43:DG:C4	2:2:44:DA:N7	2.88	0.42
2:2:52:DA:C2	2:2:53:DT:N1	2.88	0.42
2:2:66:DA:H1'	2:2:67:DA:C5	2.52	0.42
3:A:104:LYS:HA	3:A:104:LYS:HE2	2.01	0.42
3:A:158:ARG:HD2	3:A:179:ARG:HD3	2.02	0.42
3:A:257:LEU:HD12	3:A:258:ASP:CA	2.50	0.42
3:A:333:GLN:O	3:A:336:VAL:CG1	2.50	0.42
3:A:599:VAL:N	3:A:608:VAL:CG1	2.78	0.42
3:A:629:SER:OG	3:A:630:GLN:OE1	2.13	0.42
3:A:728:GLN:OE1	3:A:733:PRO:HB3	2.20	0.42
3:A:735:GLU:HA	3:A:772:LYS:HG3	1.83	0.42
3:A:761:ALA:C	3:A:762:TRP:O	2.57	0.42
3:A:762:TRP:HB2	3:A:813:ARG:HH12	1.85	0.42
4:B:100:GLY:CA	4:B:421:GLY:HA3	2.41	0.42
4:B:274:LYS:HG2	4:B:274:LYS:H	1.73	0.42
4:B:325:GLU:C	4:B:327:GLY:H	2.22	0.42
4:B:486:GLU:N	4:B:904:ASP:OD2	2.53	0.42
4:B:568:ASN:HB3	4:B:570:GLN:HG3	2.02	0.42
4:B:574:LEU:N	4:B:575:ARG:NH1	2.65	0.42
4:B:627:GLY:N	4:B:628:THR:HG23	2.32	0.42
4:B:692:LEU:HD22	4:B:736:LEU:CB	2.50	0.42
4:B:1078:PRO:CA	4:B:1100:LEU:HD11	2.49	0.42
4:B:1119:THR:HG23	4:B:1119:THR:H	1.32	0.42
4:B:1239:VAL:CG1	4:B:1240:ILE:H	2.31	0.42
5:C:19:HIS:HB3	5:C:206:PRO:HD3	2.00	0.42
5:C:67:THR:HG23	5:C:68:VAL:N	2.33	0.42
5:C:97:GLY:HA2	5:C:114:LEU:CA	2.33	0.42
5:D:38:ASN:O	5:D:40:LEU:N	2.53	0.42
5:D:121:ILE:HD12	5:D:121:ILE:HG23	1.84	0.42
6:E:223:LYS:HB2	6:E:224:LEU:HD22	2.02	0.42
6:E:240:LYS:HG2	6:E:243:TRP:CE2	2.55	0.42
6:E:414:SER:O	6:E:418:VAL:N	2.52	0.42
8:G:266:MET:O	8:G:267:GLU:HB2	2.20	0.42
8:G:326:LEU:C	8:G:328:SER:N	2.73	0.42
9:X:161:GLY:CA	9:X:170:ILE:HA	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:43:ARG:CD	9:Y:79:SER:HB3	2.50	0.42
9:Y:84:ASN:O	9:Y:85:LYS:C	2.58	0.42
9:Y:176:HIS:HA	9:Y:193:LEU:CD1	2.49	0.42
1:1:80:DA:N7	2:2:46:DT:C7	2.83	0.41
1:1:83:DC:H2"	1:1:84:DA:OP2	2.20	0.41
1:1:121:DG:C2'	1:1:122:DC:OP2	2.66	0.41
2:2:58:DA:C2	2:2:59:DG:C2	3.08	0.41
3:A:31:ILE:HG21	3:A:31:ILE:HD13	1.57	0.41
3:A:207:ASN:HA	3:A:211:ASP:OD2	2.19	0.41
3:A:225:LYS:HZ2	3:A:225:LYS:HG3	1.54	0.41
3:A:331:LEU:HA	3:A:331:LEU:HD13	1.60	0.41
3:A:382:GLN:C	3:A:383:LEU:HD12	2.40	0.41
3:A:428:GLY:H	3:A:534:ILE:CG1	2.33	0.41
3:A:471:VAL:HG23	3:A:473:PHE:N	2.29	0.41
3:A:473:PHE:O	3:A:474:ASP:C	2.58	0.41
3:A:559:MET:HE2	3:A:559:MET:HB2	1.72	0.41
3:A:852:MET:HE3	3:A:852:MET:O	2.20	0.41
3:A:874:LEU:HD23	3:A:874:LEU:HA	1.87	0.41
3:A:1051:ALA:O	3:A:1053:ASN:N	2.54	0.41
3:A:1075:ARG:O	3:A:1078:GLN:N	2.52	0.41
4:B:96:ASP:C	4:B:423:LEU:N	2.73	0.41
4:B:103:GLU:O	4:B:106:LYS:HB3	2.19	0.41
4:B:134:ILE:C	4:B:137:VAL:H	2.24	0.41
4:B:180:ARG:HG3	4:B:180:ARG:HH11	1.85	0.41
4:B:360:PRO:CG	4:B:386:ILE:HG13	2.46	0.41
4:B:462:GLN:O	4:B:463:LYS:HB3	2.19	0.41
4:B:602:GLY:O	4:B:782:VAL:N	2.25	0.41
4:B:604:LEU:O	4:B:778:ASP:HA	2.20	0.41
4:B:793:THR:HG22	4:B:794:GLN:O	2.19	0.41
4:B:913:LYS:HB3	4:B:913:LYS:HE3	1.45	0.41
4:B:1161:THR:O	4:B:1162:MET:C	2.58	0.41
5:C:15:GLU:O	5:C:16:SER:HB3	2.20	0.41
5:C:207:GLN:C	5:C:209:ALA:N	2.72	0.41
5:C:207:GLN:O	5:C:209:ALA:N	2.53	0.41
5:D:63:HIS:HD2	5:D:65:PHE:CD2	2.38	0.41
6:E:140:VAL:C	6:E:142:PHE:N	2.71	0.41
6:E:298:ILE:HG21	6:E:298:ILE:HD13	1.74	0.41
6:E:391:ARG:HA	6:E:391:ARG:HD2	1.74	0.41
6:E:407:LEU:HA	6:E:410:ARG:HG3	2.02	0.41
8:G:116:VAL:O	8:G:118:GLU:N	2.53	0.41
8:G:121:SER:HA	8:G:127:ASP:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:193:ARG:O	8:G:194:ALA:C	2.55	0.41
8:G:216:GLN:OE1	8:G:216:GLN:C	2.59	0.41
9:X:146:GLY:O	9:X:150:VAL:HG23	2.20	0.41
9:Y:46:PHE:HD2	9:Y:74:VAL:HG23	1.85	0.41
9:Y:205:ILE:HG23	9:Y:205:ILE:O	2.20	0.41
1:1:75:DA:N6	2:2:52:DA:C2	2.88	0.41
1:1:88:DA:H2'	1:1:88:DA:H5'	1.86	0.41
1:1:94:DT:N1	1:1:95:DT:H71	2.34	0.41
2:2:3:DT:C2	2:2:4:DG:N1	2.88	0.41
2:2:35:DA:H2"	2:2:36:DT:H5'	2.01	0.41
2:2:56:DG:H1'	2:2:57:DT:H5'	2.02	0.41
2:2:60:DC:C6	2:2:60:DC:OP2	2.73	0.41
3:A:276:LYS:HD2	3:A:276:LYS:HA	1.68	0.41
3:A:330:GLU:O	3:A:332:LEU:C	2.59	0.41
3:A:396:LEU:HD23	3:A:396:LEU:HA	1.57	0.41
3:A:529:VAL:O	3:A:529:VAL:HG12	2.19	0.41
3:A:555:MET:O	3:A:558:ASN:N	2.53	0.41
3:A:578:LEU:O	3:A:579:GLU:HB3	2.20	0.41
3:A:590:ILE:HG21	3:A:590:ILE:HD13	1.83	0.41
3:A:600:TYR:CE2	3:A:607:ARG:CZ	3.03	0.41
3:A:889:VAL:CG2	3:A:893:MET:HA	2.50	0.41
4:B:5:ASN:C	4:B:6:ARG:HG3	2.40	0.41
4:B:7:VAL:HA	6:E:521:THR:HG23	2.01	0.41
4:B:17:ILE:HG21	4:B:17:ILE:HD13	1.73	0.41
4:B:23:HIS:O	4:B:24:TYR:CG	2.72	0.41
4:B:59:PRO:O	4:B:62:LYS:HB2	2.20	0.41
4:B:101:THR:HA	4:B:420:LYS:O	2.19	0.41
4:B:157:LEU:HB2	4:B:160:LYS:NZ	2.28	0.41
4:B:167:LEU:HA	4:B:167:LEU:HD23	1.46	0.41
4:B:196:LEU:HD23	4:B:196:LEU:HA	1.53	0.41
4:B:230:LYS:HZ2	4:B:232:LEU:HA	1.84	0.41
4:B:271:GLU:HG2	4:B:271:GLU:H	1.69	0.41
4:B:328:THR:CG2	4:B:329:GLN:N	2.82	0.41
4:B:444:ASP:OD1	4:B:446:ALA:HB2	2.20	0.41
4:B:453:VAL:HG22	4:B:482:ILE:HD13	1.98	0.41
4:B:464:THR:HA	4:B:467:GLN:NE2	2.34	0.41
4:B:480:ILE:C	4:B:481:TRP:CE3	2.94	0.41
4:B:542:ALA:HA	4:B:758:VAL:O	2.20	0.41
4:B:681:LEU:HD12	4:B:682:ARG:N	2.35	0.41
5:C:117:GLU:CD	5:C:117:GLU:C	2.78	0.41
5:C:221:PHE:O	5:C:224:LEU:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D:3:GLN:HA	5:D:26:GLU:OE2	2.19	0.41
6:E:22:ILE:O	6:E:25:TRP:HB2	2.20	0.41
6:E:67:LYS:CG	6:E:70:GLU:OE1	2.67	0.41
6:E:402:LYS:HZ3	8:G:390:ARG:NH2	2.12	0.41
6:E:581:ASP:O	6:E:583:SER:N	2.53	0.41
6:E:621:GLU:CG	6:E:622:ALA:N	2.80	0.41
8:G:92:ILE:HD12	8:G:93:ARG:H	1.85	0.41
8:G:113:LEU:HD22	8:G:147:ARG:CZ	2.50	0.41
8:G:127:ASP:CB	8:G:129:ARG:HH11	2.32	0.41
8:G:290:ILE:HG13	8:G:293:GLU:O	2.19	0.41
9:X:31:ASN:O	9:X:32:LYS:HG3	2.20	0.41
9:X:43:ARG:NE	9:X:108:VAL:HG23	2.34	0.41
9:X:104:PRO:O	9:X:105:ILE:C	2.58	0.41
9:X:180:ALA:O	9:X:184:GLY:N	2.53	0.41
9:X:211:THR:O	9:X:211:THR:OG1	2.21	0.41
1:1:78:DA:C1'	1:1:79:DA:C8	3.02	0.41
2:2:10:DG:H1'	2:2:11:DT:C4	2.55	0.41
2:2:33:DA:N3	2:2:34:DA:C4	2.87	0.41
2:2:49:DT:C1'	2:2:50:DG:C8	2.94	0.41
3:A:62:LYS:CA	3:A:104:LYS:HB2	2.47	0.41
3:A:83:GLU:OE1	3:A:87:ARG:NH2	2.54	0.41
3:A:93:VAL:HG22	3:A:94:GLN:H	1.85	0.41
3:A:102:LEU:O	3:A:103:ASN:OD1	2.38	0.41
3:A:271:ARG:N	3:A:290:ARG:NH2	2.67	0.41
3:A:470:ARG:O	3:A:470:ARG:CG	2.68	0.41
3:A:606:ILE:HD12	3:A:606:ILE:HG23	1.48	0.41
3:A:693:TRP:H	3:A:697:ASN:HD22	1.68	0.41
3:A:789:ARG:NH1	3:A:795:LYS:HD3	2.35	0.41
3:A:883:VAL:O	3:A:883:VAL:HG22	2.19	0.41
3:A:965:GLY:O	3:A:966:GLU:HG3	2.19	0.41
4:B:96:ASP:HA	4:B:423:LEU:HB3	2.02	0.41
4:B:279:GLU:N	4:B:279:GLU:CD	2.73	0.41
4:B:445:VAL:HG13	4:B:972:TYR:HD2	1.84	0.41
4:B:454:LYS:HB3	4:B:483:LEU:HD12	2.01	0.41
4:B:481:TRP:N	4:B:481:TRP:CD2	2.86	0.41
4:B:553:VAL:HA	4:B:561:ASN:O	2.20	0.41
4:B:612:GLN:N	4:B:612:GLN:CD	2.74	0.41
4:B:791:LEU:HA	4:B:791:LEU:HD12	1.80	0.41
4:B:817:GLU:OE1	4:B:831:GLN:O	2.38	0.41
4:B:971:PRO:O	4:B:972:TYR:HD1	2.02	0.41
4:B:1082:PRO:O	4:B:1083:LEU:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1244:LEU:CG	4:B:1245:ILE:N	2.81	0.41
5:C:88:LYS:HB3	5:C:119:GLU:OE2	2.21	0.41
5:C:214:ALA:HA	5:D:224:LEU:HD22	2.03	0.41
5:D:43:VAL:HG12	5:D:43:VAL:H	1.68	0.41
5:D:54:THR:CA	5:D:166:ILE:HG22	2.50	0.41
5:D:91:SER:HB2	5:D:95:GLN:OE1	2.19	0.41
5:D:109:ALA:O	5:D:112:PHE:HB2	2.20	0.41
5:D:174:ARG:H	5:D:200:THR:HA	1.85	0.41
6:E:106:ILE:HG21	6:E:106:ILE:HD13	1.67	0.41
6:E:144:SER:C	6:E:145:TYR:HD1	2.23	0.41
6:E:339:GLU:C	6:E:343:GLY:HA3	2.40	0.41
6:E:426:HIS:CD2	6:E:484:GLN:OE1	2.74	0.41
6:E:487:ALA:O	6:E:490:LEU:N	2.53	0.41
6:E:517:ALA:O	6:E:518:TYR:C	2.53	0.41
6:E:594:ARG:CZ	6:E:603:SER:CB	2.92	0.41
7:F:20:ASP:O	7:F:21:LEU:C	2.58	0.41
8:G:135:GLU:HB2	8:G:137:VAL:H	1.85	0.41
8:G:189:LEU:HA	8:G:189:LEU:HD13	1.71	0.41
8:G:288:THR:O	8:G:288:THR:CG2	2.67	0.41
8:G:316:ASN:N	8:G:316:ASN:ND2	2.62	0.41
9:Y:44:VAL:CG1	9:Y:46:PHE:CE2	2.95	0.41
9:Y:48:LEU:O	9:Y:71:GLU:HA	2.19	0.41
9:Y:48:LEU:HA	9:Y:72:ASN:N	2.34	0.41
9:Y:57:VAL:HA	9:Y:63:GLU:CG	2.50	0.41
1:1:83:DC:H5'	1:1:83:DC:H6	1.85	0.41
1:1:84:DA:C1'	1:1:85:DG:O5'	2.61	0.41
2:2:57:DT:P	2:2:57:DT:H3'	2.61	0.41
2:2:59:DG:N1	2:2:60:DC:N3	2.69	0.41
2:2:64:DA:H2'	2:2:64:DA:P	2.60	0.41
3:A:68:LEU:O	3:A:70:HIS:N	2.52	0.41
3:A:180:ASN:OD1	3:A:180:ASN:N	2.50	0.41
3:A:184:TRP:CE3	3:A:193:LEU:HG	2.56	0.41
3:A:188:ASP:H	3:A:191:ARG:HB3	1.86	0.41
3:A:242:LEU:CG	3:A:243:ARG:HB2	2.51	0.41
3:A:335:GLN:O	3:A:336:VAL:C	2.57	0.41
3:A:346:ILE:HA	3:A:346:ILE:HD13	1.83	0.41
3:A:597:ASP:CG	3:A:662:ARG:NE	2.72	0.41
3:A:608:VAL:CA	3:A:615:PRO:CG	2.98	0.41
3:A:609:ARG:CB	3:A:635:ILE:O	2.65	0.41
3:A:644:ARG:HE	3:A:720:GLU:HA	1.85	0.41
3:A:653:GLN:HA	3:A:671:ASP:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:696:TYR:CZ	6:E:366:PRO:HB2	2.56	0.41
3:A:944:GLY:O	3:A:946:ASP:N	2.53	0.41
3:A:1023:TRP:HB3	6:E:436:LEU:HD12	2.02	0.41
3:A:1055:ILE:O	3:A:1058:GLY:N	2.53	0.41
4:B:96:ASP:HB3	4:B:422:GLN:HB3	2.01	0.41
4:B:262:THR:HA	4:B:263:PRO:HD2	1.56	0.41
4:B:283:ARG:HG2	4:B:298:CYS:CA	2.45	0.41
4:B:466:ARG:CZ	4:B:977:GLY:CA	2.99	0.41
4:B:535:ARG:HG2	4:B:840:LEU:CD2	2.49	0.41
4:B:631:TRP:HD1	4:B:633:PRO:HD3	1.80	0.41
4:B:688:PRO:CG	4:B:739:ARG:CG	2.98	0.41
4:B:760:GLN:NE2	4:B:764:ARG:NE	2.69	0.41
4:B:769:ARG:H	4:B:797:LEU:CD2	2.31	0.41
4:B:812:LEU:O	4:B:814:ALA:N	2.54	0.41
4:B:913:LYS:CG	4:B:915:LYS:HE2	2.51	0.41
4:B:1012:PRO:HG2	4:B:1013:ARG:H	1.84	0.41
4:B:1034:GLY:N	4:B:1076:VAL:HG22	2.35	0.41
4:B:1110:ALA:O	4:B:1114:LEU:HB2	2.21	0.41
4:B:1232:LEU:HB3	4:B:1237:GLU:HB3	2.03	0.41
5:C:13:THR:HG22	5:C:206:PRO:CG	2.47	0.41
5:C:186:ASP:N	5:C:190:PRO:HA	2.35	0.41
5:C:204:ILE:O	5:C:205:SER:C	2.56	0.41
5:D:33:GLY:HA2	5:D:194:LEU:CD1	2.51	0.41
5:D:49:GLU:OE2	5:D:146:LYS:HG3	2.21	0.41
5:D:49:GLU:O	5:D:172:PRO:HG3	2.20	0.41
6:E:24:GLN:HA	6:E:27:GLU:OE1	2.20	0.41
6:E:207:GLU:HA	6:E:210:ARG:HB2	2.03	0.41
6:E:275:LEU:HA	6:E:275:LEU:HD23	1.30	0.41
6:E:464:PHE:HD1	6:E:464:PHE:H	1.67	0.41
6:E:530:GLY:HA2	6:E:533:LYS:CG	2.50	0.41
8:G:200:HIS:C	8:G:201:GLU:CD	2.78	0.41
9:X:77:VAL:CB	9:X:80:LEU:HD23	2.49	0.41
9:X:129:ARG:O	9:X:133:THR:HG23	2.20	0.41
9:X:154:LEU:HD13	9:X:215:PRO:HA	2.03	0.41
1:1:63:DG:C8	1:1:64:DT:C4	3.08	0.41
1:1:74:DT:C4	2:2:53:DT:O4	2.73	0.41
1:1:115:DA:H1'	1:1:116:DC:C6	2.55	0.41
1:1:120:DT:N3	1:1:121:DG:C5	2.88	0.41
2:2:9:DC:N4	2:2:10:DG:O6	2.52	0.41
2:2:40:DC:H2'	2:2:40:DC:H6	1.59	0.41
2:2:42:DT:C6	2:2:43:DG:C5	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:51:DT:C2	2:2:52:DA:N9	2.89	0.41
3:A:40:TRP:CZ2	3:A:44:GLU:OE2	2.73	0.41
3:A:199:LEU:HA	3:A:202:LEU:HD11	2.01	0.41
3:A:260:ARG:O	3:A:260:ARG:HG2	2.20	0.41
3:A:277:LEU:O	3:A:278:ASN:O	2.39	0.41
3:A:283:LEU:H	3:A:283:LEU:HG	1.63	0.41
3:A:598:VAL:N	3:A:615:PRO:HB3	2.35	0.41
3:A:684:GLN:HB3	3:A:685:ASN:H	1.57	0.41
3:A:722:TYR:HD1	3:A:722:TYR:HA	1.55	0.41
3:A:735:GLU:CA	3:A:736:ILE:HG12	2.51	0.41
3:A:937:GLN:HA	3:A:949:TYR:HD2	1.86	0.41
3:A:1036:GLU:O	3:A:1038:LEU:N	2.53	0.41
4:B:97:THR:C	4:B:421:GLY:O	2.58	0.41
4:B:195:TYR:CE2	4:B:199:ARG:NH1	2.89	0.41
4:B:385:MET:O	4:B:386:ILE:C	2.58	0.41
4:B:417:GLN:OE1	4:B:421:GLY:HA2	2.21	0.41
4:B:439:GLU:N	4:B:1001:ARG:O	2.53	0.41
4:B:450:ALA:HB1	4:B:487:VAL:CG1	2.46	0.41
4:B:521:GLY:O	4:B:863:ASP:C	2.59	0.41
4:B:582:VAL:N	4:B:814:ALA:HB1	2.35	0.41
4:B:636:THR:CB	4:B:784:SER:HB3	2.51	0.41
4:B:653:TYR:CA	4:B:671:VAL:HG23	2.49	0.41
4:B:656:ALA:C	4:B:668:ASN:ND2	2.74	0.41
4:B:700:VAL:CG1	4:B:704:ASP:HB3	2.46	0.41
4:B:883:ILE:HG22	4:B:898:LEU:HD22	2.03	0.41
4:B:1066:GLY:C	4:B:1067:GLN:HE21	2.24	0.41
5:C:34:THR:OG1	5:C:35:THR:N	2.53	0.41
5:C:35:THR:HG22	5:D:42:ARG:HH21	1.86	0.41
5:D:72:ARG:HE	6:E:602:ILE:HD11	1.86	0.41
6:E:129:LEU:CD2	6:E:193:LEU:CD1	2.90	0.41
6:E:298:ILE:C	6:E:300:ARG:N	2.67	0.41
6:E:499:SER:C	6:E:501:ALA:N	2.73	0.41
6:E:519:TYR:O	6:E:520:LEU:C	2.53	0.41
6:E:580:GLU:CD	6:E:581:ASP:H	2.24	0.41
7:F:34:GLN:C	7:F:36:ALA:N	2.71	0.41
8:G:318:LEU:CA	8:G:388:TYR:HE2	1.94	0.41
8:G:352:GLU:HB2	8:G:353:GLU:H	1.72	0.41
9:X:27:THR:HB	9:X:99:GLU:HA	2.03	0.41
9:X:78:LEU:C	9:X:80:LEU:N	2.73	0.41
9:X:104:PRO:HB2	9:X:106:GLU:CG	2.49	0.41
9:X:117:GLU:HA	9:X:120:MET:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:125:GLY:O	9:X:128:SER:HB3	2.21	0.41
9:X:158:ARG:HG3	9:X:158:ARG:O	2.21	0.41
9:Y:162:VAL:HG22	9:Y:170:ILE:O	2.20	0.41
1:1:74:DT:O2	2:2:52:DA:H2	2.04	0.41
1:1:92:DT:C2	1:1:93:DT:C4	3.08	0.41
1:1:94:DT:H5"	6:E:47:TYR:OH	2.20	0.41
1:1:101:DT:C2	1:1:102:DA:N7	2.89	0.41
1:1:122:DC:H3'	1:1:122:DC:P	2.61	0.41
2:2:8:DC:H3'	2:2:8:DC:OP2	2.20	0.41
2:2:31:DA:C5	2:2:32:DA:N7	2.88	0.41
2:2:64:DA:C4	2:2:65:DA:C2	3.08	0.41
3:A:58:ASP:OD1	3:A:61:GLY:N	2.53	0.41
3:A:148:TYR:HE1	3:A:322:ASN:HD21	0.62	0.41
3:A:167:PRO:HA	3:A:269:LEU:CD1	2.51	0.41
3:A:198:LEU:O	3:A:202:LEU:HD11	2.20	0.41
3:A:260:ARG:HH11	3:A:260:ARG:CG	2.28	0.41
3:A:336:VAL:CG1	3:A:337:ARG:N	2.83	0.41
3:A:514:GLN:O	3:A:515:GLU:HG2	2.21	0.41
3:A:736:ILE:HD13	3:A:772:LYS:CD	2.50	0.41
3:A:782:PRO:HB2	3:A:784:GLU:CD	2.41	0.41
3:A:806:VAL:HG12	3:A:807:PRO:HD2	2.02	0.41
3:A:937:GLN:O	3:A:938:GLU:C	2.51	0.41
3:A:1034:LEU:HD12	3:A:1034:LEU:HA	1.18	0.41
3:A:1042:SER:O	3:A:1042:SER:OG	2.32	0.41
4:B:56:LEU:HA	4:B:56:LEU:HD23	1.38	0.41
4:B:195:TYR:CD2	4:B:199:ARG:NH1	2.88	0.41
4:B:241:GLY:HA3	4:B:301:TRP:HB2	2.02	0.41
4:B:242:ARG:N	4:B:264:ILE:HG22	2.25	0.41
4:B:250:HIS:CB	4:B:254:LYS:HG2	2.50	0.41
4:B:263:PRO:HG2	4:B:263:PRO:O	2.20	0.41
4:B:356:THR:O	4:B:357:ILE:C	2.58	0.41
4:B:499:LYS:O	4:B:500:ASN:C	2.59	0.41
4:B:516:THR:HG23	4:B:870:VAL:CA	2.51	0.41
4:B:523:VAL:CG2	4:B:866:VAL:H	2.33	0.41
4:B:548:GLN:HG2	4:B:754:SER:OG	2.21	0.41
4:B:572:PHE:HE1	4:B:591:LEU:HB2	1.85	0.41
4:B:626:GLY:HA2	4:B:628:THR:OG1	2.20	0.41
4:B:631:TRP:NE1	4:B:633:PRO:HG3	2.29	0.41
4:B:688:PRO:CD	4:B:739:ARG:HG2	2.50	0.41
4:B:690:GLU:OE2	4:B:738:SER:HB2	2.21	0.41
4:B:916:VAL:HG21	4:B:930:PRO:HD3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1086:GLY:HA3	4:B:1087:PRO:HD2	1.85	0.41
5:C:60:GLY:C	5:C:61:VAL:HG23	2.41	0.41
5:C:78:ILE:HD13	5:C:78:ILE:HG21	1.76	0.41
5:C:101:VAL:HB	5:C:136:LEU:CB	2.50	0.41
5:C:109:ALA:HA	5:C:112:PHE:CZ	2.56	0.41
5:C:130:ILE:HB	5:C:136:LEU:CD2	2.51	0.41
5:C:165:GLN:HG2	5:C:166:ILE:N	2.29	0.41
5:D:4:PHE:CZ	5:D:32:GLN:HG2	2.55	0.41
5:D:56:VAL:O	5:D:56:VAL:HG23	2.20	0.41
5:D:85:VAL:H	5:D:85:VAL:HG22	1.57	0.41
5:D:114:LEU:CD1	5:D:119:GLU:HA	2.51	0.41
5:D:181:GLU:OE2	5:D:193:ARG:NE	2.53	0.41
6:E:122:PRO:O	6:E:127:ILE:CG1	2.63	0.41
6:E:148:LEU:HG	6:E:185:GLU:HB2	2.02	0.41
6:E:320:GLY:O	6:E:321:ARG:NE	2.53	0.41
6:E:479:LEU:HD23	6:E:479:LEU:HA	1.46	0.41
6:E:526:GLY:O	6:E:527:ALA:C	2.59	0.41
8:G:178:LEU:HG	8:G:222:ILE:HG23	2.00	0.41
8:G:352:GLU:O	8:G:353:GLU:C	2.59	0.41
9:X:34:ILE:H	9:X:93:VAL:N	2.18	0.41
9:X:217:THR:OG1	9:X:218:LEU:N	2.54	0.41
9:Y:44:VAL:HG12	9:Y:45:TYR:N	2.35	0.41
9:Y:149:LEU:O	9:Y:153:LEU:HG	2.21	0.41
9:Y:154:LEU:O	9:Y:155:ILE:C	2.59	0.41
9:Y:166:ASP:OD2	9:Y:211:THR:HB	2.21	0.41
1:1:77:DA:C2	2:2:50:DG:C4	3.09	0.41
1:1:88:DA:H4'	1:1:88:DA:OP1	2.09	0.41
1:1:90:DA:C5	1:1:91:DT:C5	3.09	0.41
1:1:109:DG:H21	1:1:110:DC:H42	1.65	0.41
1:1:110:DC:H2"	1:1:111:DT:C5	2.56	0.41
2:2:28:DC:H2"	2:2:29:DA:O5'	2.20	0.41
2:2:32:DA:N3	2:2:32:DA:C2'	2.81	0.41
2:2:50:DG:C2	2:2:51:DT:N3	2.89	0.41
2:2:51:DT:H1'	2:2:52:DA:O4'	2.20	0.41
3:A:60:THR:O	3:A:62:LYS:HB2	2.20	0.41
3:A:153:ILE:HG23	3:A:153:ILE:HD12	1.66	0.41
3:A:190:THR:O	3:A:191:ARG:C	2.59	0.41
3:A:192:LYS:HE3	3:A:194:SER:HB3	2.02	0.41
3:A:260:ARG:C	3:A:261:PHE:CG	2.94	0.41
3:A:352:THR:O	3:A:353:VAL:C	2.57	0.41
3:A:394:ALA:O	3:A:395:GLU:C	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:703:LEU:O	3:A:704:ILE:CG1	2.68	0.41
3:A:828:LEU:HB2	3:A:832:ALA:HB3	2.03	0.41
4:B:14:ARG:HG2	6:E:508:THR:HG21	2.02	0.41
4:B:64:SER:O	4:B:66:LEU:N	2.53	0.41
4:B:71:GLU:O	4:B:72:GLU:C	2.57	0.41
4:B:73:ILE:HG21	4:B:73:ILE:HD13	1.77	0.41
4:B:93:LYS:HD2	4:B:375:ASP:OD2	2.21	0.41
4:B:155:ILE:HG22	4:B:156:ASP:N	2.36	0.41
4:B:205:GLN:HA	4:B:317:ILE:CG2	2.50	0.41
4:B:206:ASP:O	4:B:208:ILE:HD12	2.21	0.41
4:B:244:VAL:HG22	4:B:244:VAL:H	1.34	0.41
4:B:385:MET:C	4:B:387:LEU:N	2.73	0.41
4:B:394:SER:O	4:B:395:GLU:CB	2.69	0.41
4:B:524:ARG:CA	4:B:861:ASP:OD1	2.68	0.41
4:B:555:SER:OG	4:B:559:ARG:HA	2.20	0.41
4:B:831:GLN:HB3	4:B:833:VAL:HG13	2.02	0.41
4:B:873:ARG:HD2	4:B:873:ARG:N	2.35	0.41
4:B:896:ARG:HG2	4:B:987:LEU:O	2.21	0.41
5:C:57:ARG:HA	5:C:162:ASP:O	2.20	0.41
5:C:63:HIS:O	5:C:65:PHE:N	2.54	0.41
5:C:174:ARG:H	5:C:200:THR:HA	1.85	0.41
5:C:186:ASP:CA	5:C:190:PRO:HA	2.49	0.41
5:D:151:VAL:HA	5:D:154:GLY:HA3	2.01	0.41
5:D:166:ILE:HG23	5:D:167:ASP:O	2.20	0.41
5:D:188:SER:O	5:D:189:ILE:HB	2.20	0.41
5:D:194:LEU:HD23	5:D:196:LEU:N	2.36	0.41
5:D:202:GLY:C	5:D:204:ILE:N	2.73	0.41
6:E:60:GLU:OE2	6:E:65:PRO:HA	2.20	0.41
6:E:231:ILE:HA	6:E:234:PHE:HD2	1.84	0.41
6:E:237:THR:HG23	6:E:239:SER:H	1.85	0.41
6:E:281:ASN:N	6:E:281:ASN:OD1	2.42	0.41
6:E:454:ILE:HD12	6:E:454:ILE:HG23	1.34	0.41
8:G:132:GLU:OE1	8:G:139:LEU:O	2.38	0.41
8:G:370:ALA:HB1	8:G:374:ARG:HH21	1.86	0.41
8:G:370:ALA:HB1	8:G:374:ARG:HE	1.85	0.41
9:X:166:ASP:OD2	9:X:211:THR:HB	2.21	0.41
2:2:8:DC:C1'	2:2:9:DC:N4	2.82	0.41
3:A:103:ASN:HB2	3:A:105:GLU:OE2	2.20	0.41
3:A:331:LEU:O	3:A:332:LEU:C	2.58	0.41
3:A:513:ARG:O	3:A:514:GLN:C	2.57	0.41
3:A:523:GLN:H	3:A:523:GLN:HG3	1.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:537:VAL:HA	3:A:541:MET:HE3	2.02	0.41
3:A:559:MET:C	3:A:561:ARG:N	2.73	0.41
3:A:600:TYR:HB3	3:A:607:ARG:O	2.20	0.41
4:B:76:THR:O	4:B:85:ILE:HD11	2.20	0.41
4:B:93:LYS:O	4:B:422:GLN:NE2	2.54	0.41
4:B:111:THR:O	4:B:114:LYS:HB3	2.20	0.41
4:B:494:ALA:O	4:B:511:ALA:HB1	2.21	0.41
4:B:504:VAL:HG11	4:B:509:VAL:O	2.20	0.41
4:B:542:ALA:HB3	4:B:833:VAL:N	2.34	0.41
4:B:604:LEU:HD12	4:B:630:LEU:C	2.40	0.41
4:B:604:LEU:HG	4:B:606:PHE:HB3	2.02	0.41
4:B:635:GLU:HB2	4:B:686:VAL:HB	2.03	0.41
4:B:666:CYS:HB3	4:B:668:ASN:HB3	2.01	0.41
4:B:700:VAL:O	4:B:704:ASP:HB3	2.21	0.41
4:B:743:GLU:C	4:B:744:PHE:HD1	2.24	0.41
4:B:765:SER:O	4:B:767:GLN:HG2	2.20	0.41
4:B:915:LYS:HB3	4:B:916:VAL:HG23	2.02	0.41
4:B:1017:LEU:O	4:B:1020:ALA:N	2.54	0.41
4:B:1078:PRO:C	4:B:1080:GLY:N	2.73	0.41
4:B:1151:LYS:NZ	4:B:1169:GLU:CG	2.84	0.41
4:B:1159:ASP:C	4:B:1161:THR:H	2.24	0.41
4:B:1230:ASP:HB3	6:E:12:VAL:HG22	2.02	0.41
5:C:63:HIS:HD2	5:C:65:PHE:CD2	2.38	0.41
5:D:105:THR:O	5:D:130:ILE:HG22	2.21	0.41
6:E:166:GLN:O	6:E:170:ILE:HG12	2.21	0.41
6:E:184:VAL:CG1	6:E:185:GLU:N	2.68	0.41
6:E:196:LEU:HA	6:E:196:LEU:HD23	0.88	0.41
6:E:346:ARG:O	6:E:346:ARG:HG2	2.21	0.41
6:E:381:ILE:HG21	6:E:381:ILE:HD13	1.65	0.41
6:E:400:ASN:OD1	6:E:403:ALA:HB2	2.20	0.41
6:E:419:LEU:C	6:E:421:GLU:N	2.68	0.41
6:E:457:HIS:CG	6:E:458:PRO:HD2	2.55	0.41
6:E:464:PHE:O	6:E:465:ASN:C	2.56	0.41
6:E:471:ASP:O	6:E:472:GLN:HG3	2.20	0.41
8:G:135:GLU:HB2	8:G:137:VAL:HG22	2.02	0.41
8:G:218:ILE:C	8:G:220:ARG:N	2.68	0.41
8:G:372:ALA:O	8:G:375:LYS:HB2	2.20	0.41
9:X:106:GLU:HA	9:X:110:GLN:H	1.85	0.41
9:X:160:PHE:N	9:X:160:PHE:CD1	2.87	0.41
9:X:166:ASP:CG	9:X:213:HIS:HA	2.41	0.41
9:Y:27:THR:CA	9:Y:98:VAL:HB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:Y:136:MET:HA	9:Y:139:THR:CG2	2.51	0.41
1:1:71:DT:H3'	9:X:145:MET:HE1	2.03	0.41
1:1:81:DT:C2	1:1:82:DT:C4	3.09	0.41
1:1:83:DC:H1'	1:1:84:DA:OP2	2.20	0.41
1:1:87:DA:H1'	1:1:88:DA:O4'	2.21	0.41
1:1:108:DA:C2'	1:1:109:DG:O5'	2.68	0.41
1:1:118:DG:N2	2:2:7:DT:O2	2.54	0.41
2:2:28:DC:C2'	2:2:29:DA:C8	3.04	0.41
2:2:38:DT:C2	2:2:39:DT:C6	3.09	0.41
2:2:38:DT:C6	2:2:39:DT:H73	2.55	0.41
2:2:40:DC:C2	2:2:41:DC:C4	3.08	0.41
2:2:41:DC:C2	2:2:42:DT:C2	3.09	0.41
2:2:44:DA:C2'	2:2:45:DA:OP2	2.65	0.41
2:2:51:DT:H71	2:2:52:DA:N6	2.35	0.41
2:2:61:DT:C4	2:2:62:DA:N6	2.88	0.41
2:2:67:DA:N3	2:2:67:DA:O4'	2.49	0.41
3:A:26:LEU:C	3:A:27:LEU:HD22	2.41	0.41
3:A:49:GLU:C	3:A:49:GLU:OE1	2.59	0.41
3:A:93:VAL:HG13	3:A:94:GLN:N	2.35	0.41
3:A:112:GLN:OE1	3:A:362:ALA:HB2	2.21	0.41
3:A:130:ILE:C	3:A:132:GLY:N	2.70	0.41
3:A:184:TRP:CB	3:A:193:LEU:HA	2.41	0.41
3:A:185:VAL:CG1	3:A:200:LYS:HZ1	2.34	0.41
3:A:236:MET:HA	3:A:239:TYR:CB	2.48	0.41
3:A:257:LEU:HD12	3:A:257:LEU:C	2.41	0.41
3:A:285:VAL:O	3:A:285:VAL:CG1	2.59	0.41
3:A:393:LEU:O	3:A:394:ALA:C	2.54	0.41
3:A:467:GLU:CG	3:A:472:ARG:HH12	2.19	0.41
3:A:510:VAL:O	3:A:510:VAL:HG13	2.20	0.41
3:A:552:ARG:HE	3:A:552:ARG:HB2	1.37	0.41
3:A:554:LEU:HD12	3:A:554:LEU:HA	1.46	0.41
3:A:610:VAL:HG23	3:A:633:GLN:C	2.41	0.41
3:A:617:ALA:C	3:A:619:GLY:N	2.72	0.41
3:A:639:VAL:O	3:A:639:VAL:HG13	2.20	0.41
3:A:644:ARG:HD2	3:A:719:ILE:HG13	2.03	0.41
3:A:665:ALA:C	3:A:667:GLN:H	2.24	0.41
3:A:705:SER:OG	3:A:706:GLU:N	2.35	0.41
3:A:719:ILE:HG21	3:A:719:ILE:HD13	1.56	0.41
3:A:848:VAL:HA	3:A:862:ILE:HG22	2.01	0.41
3:A:929:ARG:CD	4:B:164:ARG:NH2	2.82	0.41
3:A:1084:ILE:HD11	6:E:12:VAL:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:1100:VAL:HG22	3:A:1100:VAL:O	2.20	0.41
4:B:8:VAL:HG22	6:E:521:THR:HG21	2.03	0.41
4:B:104:ALA:CA	4:B:354:ASP:OD2	2.69	0.41
4:B:169:VAL:O	4:B:172:TYR:CA	2.62	0.41
4:B:240:LEU:O	4:B:241:GLY:C	2.57	0.41
4:B:303:LEU:CD1	4:B:1137:ALA:CB	2.94	0.41
4:B:325:GLU:N	4:B:326:PRO:CD	2.84	0.41
4:B:419:LYS:HD2	4:B:419:LYS:HA	1.37	0.41
4:B:419:LYS:HZ2	4:B:420:LYS:HE2	1.81	0.41
4:B:426:GLU:HB3	4:B:1005:GLY:O	2.21	0.41
4:B:437:ASN:CB	4:B:1003:LYS:HG3	2.51	0.41
4:B:627:GLY:CA	4:B:745:ALA:HA	2.51	0.41
4:B:634:GLU:CB	4:B:781:ARG:NH2	2.83	0.41
4:B:637:HIS:N	4:B:638:GLU:CD	2.74	0.41
4:B:710:PRO:HB3	4:B:720:THR:O	2.20	0.41
4:B:809:ALA:HB3	4:B:813:ALA:HB2	2.03	0.41
4:B:843:ASP:CG	4:B:855:THR:HG21	2.40	0.41
4:B:880:GLU:O	4:B:899:VAL:HG21	2.20	0.41
4:B:901:ARG:C	4:B:903:SER:N	2.74	0.41
4:B:905:MET:SD	4:B:905:MET:O	2.79	0.41
4:B:910:ILE:HG12	4:B:912:ALA:CA	2.51	0.41
4:B:910:ILE:CD1	4:B:912:ALA:HB3	2.50	0.41
4:B:932:ILE:HD13	4:B:932:ILE:HG21	1.72	0.41
4:B:1140:HIS:O	4:B:1142:GLU:N	2.54	0.41
4:B:1241:ILE:HA	4:B:1241:ILE:HD12	1.18	0.41
5:C:23:PHE:HZ	5:C:206:PRO:CB	2.33	0.41
5:D:40:LEU:HA	5:D:40:LEU:HD23	1.37	0.41
5:D:112:PHE:HD1	5:D:140:PHE:CE2	2.39	0.41
6:E:33:GLY:O	6:E:34:GLN:HB3	2.21	0.41
6:E:86:CYS:SG	6:E:89:CYS:HB3	2.60	0.41
6:E:125:ILE:HA	6:E:125:ILE:HD13	1.76	0.41
6:E:134:ARG:O	6:E:138:GLN:HG2	2.21	0.41
6:E:166:GLN:O	6:E:170:ILE:N	2.53	0.41
6:E:175:TYR:C	6:E:177:GLU:H	2.23	0.41
6:E:200:ILE:HG21	6:E:200:ILE:HD13	1.52	0.41
6:E:435:THR:CG2	6:E:440:GLY:HA3	2.50	0.41
6:E:449:VAL:CG1	6:E:450:GLU:H	2.34	0.41
6:E:486:GLU:N	6:E:486:GLU:CD	2.62	0.41
6:E:620:GLN:C	6:E:620:GLN:OE1	2.57	0.41
7:F:22:ILE:HG21	7:F:22:ILE:HD13	1.47	0.41
8:G:94:LEU:HD12	8:G:95:LEU:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:G:211:THR:O	8:G:212:TRP:C	2.54	0.41
8:G:263:ALA:C	8:G:266:MET:H	2.23	0.41
8:G:286:LEU:CG	8:G:286:LEU:O	2.68	0.41
9:X:26:GLU:N	9:X:26:GLU:OE1	2.42	0.41
9:X:69:LEU:HD22	9:X:74:VAL:O	2.21	0.41
9:X:106:GLU:O	9:X:110:GLN:N	2.53	0.41
9:X:162:VAL:HG22	9:X:170:ILE:O	2.20	0.41
9:X:176:HIS:HA	9:X:189:THR:HB	2.03	0.41
9:Y:26:GLU:H	9:Y:26:GLU:CD	2.22	0.41
9:Y:57:VAL:CB	9:Y:91:HIS:HB3	2.51	0.41
9:Y:69:LEU:CA	9:Y:70:ARG:HH11	2.31	0.41
9:Y:126:LEU:HD23	9:Y:126:LEU:C	2.41	0.41
1:1:73:DA:C4	2:2:54:DA:N6	2.89	0.41
1:1:84:DA:C2	1:1:85:DG:C5	3.09	0.41
1:1:85:DG:H3'	1:1:85:DG:P	2.61	0.41
2:2:59:DG:H5'	9:Y:145:MET:SD	2.61	0.41
3:A:41:PHE:HD2	3:A:42:LEU:N	2.18	0.41
3:A:215:HIS:O	3:A:305:ILE:HG21	2.21	0.41
3:A:222:THR:O	3:A:223:ILE:O	2.39	0.41
3:A:294:SER:O	3:A:295:GLY:C	2.60	0.41
3:A:336:VAL:O	3:A:338:VAL:N	2.54	0.41
3:A:339:GLY:O	3:A:340:LEU:C	2.56	0.41
3:A:348:ARG:HA	3:A:348:ARG:HD2	1.77	0.41
3:A:395:GLU:O	3:A:397:THR:N	2.53	0.41
3:A:599:VAL:H	3:A:608:VAL:HA	1.85	0.41
3:A:606:ILE:O	3:A:609:ARG:CG	2.68	0.41
3:A:722:TYR:HB2	3:A:838:VAL:HG12	2.02	0.41
3:A:1011:GLN:NE2	8:G:301:PHE:HD1	2.19	0.41
3:A:1037:LEU:HD23	3:A:1038:LEU:HD22	2.03	0.41
4:B:37:LYS:HB2	6:E:513:MET:SD	2.61	0.41
4:B:68:ALA:HB1	4:B:419:LYS:CE	2.24	0.41
4:B:126:ALA:O	4:B:127:PHE:HB3	2.21	0.41
4:B:226:THR:HG22	4:B:226:THR:O	2.21	0.41
4:B:284:SER:C	4:B:286:LEU:N	2.73	0.41
4:B:437:ASN:HB3	4:B:1003:LYS:CG	2.50	0.41
4:B:510:LEU:N	4:B:875:GLN:OE1	2.53	0.41
4:B:591:LEU:CB	4:B:793:THR:HB	2.50	0.41
4:B:597:ARG:CG	4:B:788:VAL:CB	2.85	0.41
4:B:637:HIS:NE2	4:B:666:CYS:SG	2.82	0.41
4:B:725:ILE:HG13	4:B:726:GLN:N	2.35	0.41
4:B:760:GLN:HE21	4:B:764:ARG:NE	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1180:MET:O	4:B:1184:GLY:N	2.54	0.41
4:B:1242:GLY:O	4:B:1243:ARG:C	2.55	0.41
5:C:64:GLU:HB2	5:C:65:PHE:CE2	2.56	0.41
5:D:78:ILE:HD13	5:D:78:ILE:HG21	1.75	0.41
5:D:99:LEU:HB2	5:D:112:PHE:HA	2.03	0.41
6:E:26:GLY:O	6:E:105:TYR:HE1	2.05	0.41
6:E:44:THR:HG22	6:E:58:PHE:HE1	1.86	0.41
6:E:74:GLY:O	6:E:75:LYS:HB2	2.20	0.41
6:E:147:VAL:HG12	6:E:162:LEU:HD21	2.03	0.41
6:E:153:ALA:HB3	6:E:182:GLN:HB2	2.03	0.41
6:E:154:GLU:HG3	6:E:155:THR:CG2	2.49	0.41
6:E:304:ARG:O	6:E:308:GLU:OE1	2.39	0.41
6:E:401:ILE:O	6:E:403:ALA:N	2.54	0.41
6:E:518:TYR:O	6:E:519:TYR:C	2.56	0.41
6:E:595:GLU:N	6:E:595:GLU:OE1	2.54	0.41
8:G:87:GLN:O	8:G:90:GLY:N	2.53	0.41
8:G:215:ARG:O	8:G:218:ILE:N	2.52	0.41
8:G:270:ILE:HG13	8:G:273:LEU:HB2	2.02	0.41
8:G:287:GLU:O	8:G:297:ARG:HG3	2.20	0.41
8:G:347:ARG:N	8:G:348:MET:HG3	2.35	0.41
9:Y:125:GLY:O	9:Y:126:LEU:C	2.59	0.41
9:Y:143:ARG:N	9:Y:148:ARG:HH21	2.18	0.41
1:1:62:DT:N3	2:2:64:DA:N1	2.69	0.40
2:2:3:DT:O2	2:2:4:DG:C6	2.74	0.40
2:2:30:DG:H2"	2:2:31:DA:O5'	2.21	0.40
2:2:48:DT:C2	2:2:49:DT:C6	3.08	0.40
3:A:57:THR:CG2	3:A:64:GLU:HA	2.51	0.40
3:A:74:LEU:HA	3:A:94:GLN:O	2.21	0.40
3:A:103:ASN:OD1	3:A:106:THR:O	2.40	0.40
3:A:123:THR:HG21	3:A:129:ILE:HG23	2.02	0.40
3:A:254:GLN:C	3:A:254:GLN:CD	2.80	0.40
3:A:347:ILE:HG12	3:A:351:MET:CB	2.51	0.40
3:A:607:ARG:HD3	3:A:636:ARG:HH12	1.86	0.40
3:A:610:VAL:HG23	3:A:634:GLU:HA	2.03	0.40
3:A:737:THR:OG1	3:A:739:GLU:C	2.59	0.40
3:A:1007:GLY:HA2	3:A:1013:GLY:CA	2.50	0.40
3:A:1097:SER:C	3:A:1098:LEU:HG	2.40	0.40
4:B:4:ARG:NH2	4:B:16:LEU:CD1	2.84	0.40
4:B:22:THR:H	4:B:22:THR:HG23	1.28	0.40
4:B:79:ARG:CD	4:B:85:ILE:CG2	2.99	0.40
4:B:80:TYR:HA	4:B:85:ILE:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:271:GLU:O	4:B:274:LYS:CA	2.69	0.40
4:B:310:ASP:O	4:B:311:LEU:HD23	2.21	0.40
4:B:443:LYS:HZ1	4:B:975:SER:N	2.19	0.40
4:B:507:ASN:C	4:B:508:GLY:O	2.57	0.40
4:B:692:LEU:HD22	4:B:736:LEU:C	2.42	0.40
4:B:724:TYR:CE1	4:B:727:TYR:CD1	3.09	0.40
4:B:986:ASP:OD1	4:B:986:ASP:O	2.39	0.40
5:C:86:ILE:HG21	5:C:86:ILE:HD13	1.81	0.40
5:D:63:HIS:O	5:D:65:PHE:N	2.54	0.40
5:D:64:GLU:HB2	5:D:65:PHE:CE2	2.56	0.40
5:D:98:ARG:HA	5:D:139:GLU:HB2	2.03	0.40
5:D:101:VAL:H	5:D:136:LEU:CB	2.25	0.40
5:D:207:GLN:C	5:D:209:ALA:N	2.72	0.40
6:E:71:CYS:HB2	6:E:86:CYS:HB2	1.77	0.40
6:E:89:CYS:SG	6:E:91:VAL:N	2.94	0.40
6:E:142:PHE:N	6:E:142:PHE:CD2	2.87	0.40
6:E:182:GLN:CG	6:E:183:GLY:N	2.84	0.40
6:E:196:LEU:O	6:E:199:ASP:N	2.54	0.40
6:E:279:VAL:O	6:E:280:ILE:C	2.56	0.40
6:E:319:ARG:HG2	6:E:320:GLY:N	2.36	0.40
6:E:424:GLU:OE1	6:E:424:GLU:CA	2.58	0.40
6:E:429:MET:HE2	6:E:429:MET:HB2	1.67	0.40
6:E:451:GLY:O	6:E:452:ARG:CG	2.69	0.40
6:E:489:LEU:O	6:E:489:LEU:HD23	2.20	0.40
7:F:31:ILE:HD13	7:F:31:ILE:HG21	1.79	0.40
8:G:88:GLU:OE2	8:G:89:ILE:CA	2.69	0.40
8:G:127:ASP:O	8:G:128:PRO:C	2.58	0.40
8:G:162:ASN:O	8:G:164:ARG:N	2.54	0.40
8:G:285:SER:O	8:G:287:GLU:N	2.53	0.40
8:G:371:LYS:O	8:G:375:LYS:CG	2.65	0.40
9:Y:35:PHE:CE2	9:Y:88:ARG:NH2	2.89	0.40
9:Y:56:ARG:CZ	9:Y:63:GLU:HA	2.51	0.40
9:Y:57:VAL:HG23	9:Y:63:GLU:HG2	1.99	0.40
9:Y:189:THR:O	9:Y:193:LEU:HG	2.21	0.40
1:1:61:DT:H1'	1:1:62:DT:O5'	2.21	0.40
1:1:100:DA:C8	1:1:100:DA:P	3.14	0.40
1:1:100:DA:C2	8:G:204:TYR:CZ	3.09	0.40
2:2:62:DA:H2"	2:2:63:DC:OP2	2.21	0.40
3:A:238:LEU:C	3:A:242:LEU:HB3	2.42	0.40
3:A:249:THR:HG22	3:A:251:LEU:N	2.35	0.40
3:A:263:ASP:HB2	3:A:265:LYS:CB	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:267:TYR:HD2	3:A:291:VAL:HG13	1.86	0.40
3:A:396:LEU:C	3:A:398:HIS:H	2.24	0.40
3:A:620:LYS:HG2	3:A:630:GLN:C	2.41	0.40
3:A:704:ILE:HG23	3:A:704:ILE:HD12	1.16	0.40
3:A:890:PRO:HG3	4:B:131:ARG:CZ	2.51	0.40
3:A:968:PHE:CE1	4:B:48:GLY:O	2.74	0.40
3:A:1033:THR:H	3:A:1033:THR:HG23	1.44	0.40
3:A:1050:GLU:H	3:A:1050:GLU:HG3	1.67	0.40
3:A:1086:VAL:H	3:A:1086:VAL:HG22	1.31	0.40
4:B:164:ARG:C	4:B:166:GLY:N	2.67	0.40
4:B:168:THR:O	4:B:169:VAL:C	2.55	0.40
4:B:181:LYS:O	4:B:182:GLY:C	2.57	0.40
4:B:542:ALA:HB1	4:B:544:VAL:HG23	2.02	0.40
4:B:562:TYR:C	4:B:564:ILE:N	2.75	0.40
4:B:645:LEU:H	4:B:662:LYS:CD	2.32	0.40
4:B:819:ILE:HD12	4:B:822:LEU:HD22	2.02	0.40
4:B:880:GLU:OE2	4:B:899:VAL:O	2.39	0.40
4:B:1026:ALA:HB1	4:B:1088:SER:HA	2.03	0.40
4:B:1144:ILE:HG21	4:B:1144:ILE:HD13	1.61	0.40
4:B:1145:VAL:HA	4:B:1148:MET:HB2	2.02	0.40
5:C:57:ARG:HB2	5:C:139:GLU:CD	2.42	0.40
5:C:150:THR:HA	5:C:167:ASP:HB2	2.02	0.40
5:D:4:PHE:HE1	5:D:28:LEU:O	2.05	0.40
5:D:60:GLY:C	5:D:61:VAL:HG23	2.41	0.40
5:D:63:HIS:HE2	5:D:65:PHE:HB2	1.85	0.40
5:D:197:GLU:O	5:D:197:GLU:CG	2.63	0.40
6:E:94:THR:O	6:E:98:VAL:HG23	2.21	0.40
6:E:113:ALA:HA	6:E:245:VAL:HG23	2.03	0.40
6:E:148:LEU:HD12	6:E:150:PRO:HD2	2.03	0.40
6:E:192:ALA:O	6:E:196:LEU:N	2.52	0.40
6:E:235:ILE:HG13	6:E:236:ALA:N	2.37	0.40
6:E:355:ASP:O	6:E:356:TYR:C	2.59	0.40
6:E:443:ALA:HB1	6:E:487:ALA:HB1	2.03	0.40
6:E:504:ARG:H	6:E:504:ARG:HG2	1.30	0.40
8:G:178:LEU:CB	8:G:222:ILE:HG22	2.52	0.40
9:Y:45:TYR:HE2	9:Y:78:LEU:HD11	1.86	0.40
9:Y:55:SER:HB2	9:Y:65:THR:HG22	1.99	0.40
1:1:77:DA:C1'	1:1:78:DA:C8	2.98	0.40
1:1:80:DA:H2'	1:1:81:DT:C7	2.33	0.40
1:1:85:DG:C4	1:1:86:DG:N7	2.89	0.40
1:1:89:DA:H2"	1:1:90:DA:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:90:DA:H2"	1:1:91:DT:O5'	2.20	0.40
1:1:107:DG:C6	1:1:108:DA:C6	3.08	0.40
1:1:108:DA:C8	1:1:108:DA:O5'	2.74	0.40
1:1:115:DA:N6	2:2:10:DG:C5	2.89	0.40
1:1:121:DG:C5	1:1:122:DC:N4	2.88	0.40
3:A:122:MET:SD	3:A:126:GLY:HA2	2.61	0.40
3:A:141:ILE:HD13	3:A:141:ILE:HG21	1.63	0.40
3:A:371:VAL:O	3:A:372:ALA:O	2.39	0.40
3:A:449:THR:H	3:A:449:THR:HG23	1.70	0.40
3:A:489:ARG:HG2	3:A:523:GLN:O	2.21	0.40
3:A:492:PRO:C	3:A:494:ASP:H	2.07	0.40
3:A:601:VAL:HA	3:A:606:ILE:HA	2.02	0.40
3:A:616:THR:HB	3:A:635:ILE:HD11	2.04	0.40
3:A:759:ILE:HA	3:A:759:ILE:HD13	1.78	0.40
3:A:769:LEU:HA	3:A:769:LEU:HD23	1.24	0.40
3:A:958:MET:HE3	3:A:958:MET:HB3	1.63	0.40
3:A:1039:THR:C	3:A:1041:LYS:N	2.70	0.40
4:B:70:GLU:O	4:B:71:GLU:C	2.58	0.40
4:B:72:GLU:HG3	4:B:97:THR:CG2	2.52	0.40
4:B:86:THR:C	4:B:89:GLU:HB2	2.39	0.40
4:B:174:ILE:H	4:B:174:ILE:HG12	1.48	0.40
4:B:178:GLY:O	4:B:180:ARG:N	2.55	0.40
4:B:268:LEU:O	4:B:269:ALA:C	2.56	0.40
4:B:443:LYS:CB	4:B:997:LEU:H	2.34	0.40
4:B:479:LEU:HB2	4:B:481:TRP:HH2	1.85	0.40
4:B:645:LEU:N	4:B:662:LYS:HZ2	2.18	0.40
4:B:804:GLU:HA	4:B:808:ASN:HA	2.04	0.40
4:B:1049:ILE:O	4:B:1050:LYS:HB3	2.21	0.40
4:B:1052:ILE:H	4:B:1052:ILE:HG12	1.62	0.40
5:C:16:SER:OG	5:C:17:ARG:N	2.53	0.40
5:C:54:THR:CA	5:C:166:ILE:HG22	2.50	0.40
5:C:101:VAL:H	5:C:136:LEU:HB2	1.86	0.40
5:C:145:GLY:HA3	5:C:149:ARG:HH22	1.86	0.40
5:D:10:GLU:HG3	5:D:20:TYR:CD2	2.52	0.40
5:D:165:GLN:HG2	5:D:166:ILE:O	2.22	0.40
5:D:169:ILE:H	5:D:169:ILE:HG23	1.62	0.40
5:D:217:LEU:HD22	5:D:221:PHE:HE2	1.86	0.40
6:E:175:TYR:N	6:E:180:GLN:HG2	2.37	0.40
6:E:225:ILE:O	6:E:229:ARG:HG2	2.21	0.40
6:E:344:ARG:NE	6:E:344:ARG:HA	2.29	0.40
6:E:502:THR:C	6:E:504:ARG:N	2.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:X:171:ASP:HB3	9:X:209:LYS:CD	2.51	0.40
9:Y:40:PRO:HB3	9:Y:78:LEU:HB3	2.03	0.40
9:Y:69:LEU:HD12	9:Y:70:ARG:CD	2.41	0.40
9:Y:119:SER:CA	9:Y:122:MET:HB2	2.51	0.40
9:Y:166:ASP:CG	9:Y:213:HIS:HA	2.41	0.40
1:1:66:DG:H2'	1:1:67:DC:O4'	2.22	0.40
2:2:27:DA:C2'	8:G:237:GLU:OE1	2.70	0.40
3:A:38:PHE:O	3:A:39:ARG:O	2.39	0.40
3:A:104:LYS:HD3	4:B:559:ARG:NH1	2.36	0.40
3:A:137:ILE:HD12	3:A:137:ILE:HG23	1.63	0.40
3:A:176:GLU:O	3:A:177:THR:HG23	2.22	0.40
3:A:183:VAL:O	3:A:195:ALA:HA	2.21	0.40
3:A:357:GLU:O	3:A:358:VAL:C	2.60	0.40
3:A:378:PHE:CD2	3:A:378:PHE:N	2.78	0.40
3:A:489:ARG:HG2	3:A:524:VAL:HA	2.03	0.40
3:A:523:GLN:O	3:A:524:VAL:CG2	2.62	0.40
3:A:642:TYR:HD1	3:A:650:CYS:HG	1.68	0.40
3:A:694:GLU:CD	3:A:694:GLU:H	2.25	0.40
3:A:700:ASP:CB	6:E:468:PHE:H	2.34	0.40
3:A:734:GLU:C	3:A:735:GLU:OE1	2.60	0.40
3:A:737:THR:O	3:A:755:GLY:HA3	2.21	0.40
3:A:750:GLN:HA	3:A:758:ARG:HH22	1.87	0.40
3:A:926:GLU:O	3:A:928:SER:N	2.54	0.40
3:A:974:ILE:HD13	3:A:974:ILE:HA	1.42	0.40
3:A:1085:ALA:HB1	3:A:1098:LEU:CD2	2.51	0.40
4:B:443:LYS:HZ3	4:B:974:VAL:HA	1.87	0.40
4:B:482:ILE:CG2	4:B:970:ARG:HD2	2.52	0.40
4:B:503:ARG:CZ	4:B:505:GLU:HB3	2.51	0.40
4:B:706:THR:C	4:B:727:TYR:HE1	2.24	0.40
4:B:848:ALA:CA	4:B:877:LEU:HD23	2.45	0.40
4:B:1032:ARG:HG2	4:B:1033:GLY:H	1.84	0.40
4:B:1208:ILE:O	4:B:1209:SER:O	2.40	0.40
5:C:58:ILE:HG23	5:C:58:ILE:HD12	1.68	0.40
5:D:9:VAL:CG1	5:D:24:ILE:HG12	2.50	0.40
5:D:218:VAL:O	5:D:219:ASP:C	2.57	0.40
6:E:69:TRP:HD1	6:E:82:ARG:HA	1.85	0.40
6:E:99:ARG:C	6:E:101:HIS:N	2.75	0.40
6:E:302:GLU:OE2	6:E:302:GLU:CA	2.60	0.40
6:E:402:LYS:O	6:E:403:ALA:C	2.58	0.40
6:E:541:VAL:O	6:E:544:ALA:HB3	2.20	0.40
6:E:565:GLU:OE1	6:E:566:SER:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:F:35:VAL:O	7:F:36:ALA:C	2.59	0.40
8:G:314:SER:OG	8:G:315:LYS:HG2	2.22	0.40
8:G:317:LEU:HA	8:G:320:GLU:OE2	2.20	0.40
8:G:329:LEU:H	8:G:334:ARG:HE	1.68	0.40
8:G:331:PRO:O	8:G:334:ARG:HB2	2.21	0.40
8:G:350:THR:O	8:G:353:GLU:HG2	2.22	0.40
9:X:46:PHE:O	9:X:48:LEU:N	2.55	0.40
9:X:62:GLU:C	9:X:63:GLU:OE1	2.60	0.40
9:X:130:ILE:O	9:X:131:LEU:C	2.60	0.40
9:X:145:MET:CE	9:Y:143:ARG:HH22	2.33	0.40
9:X:218:LEU:C	9:X:220:ARG:N	2.74	0.40
1:1:70:DC:H2"	1:1:71:DT:C7	2.52	0.40
1:1:78:DA:C4	1:1:79:DA:C5	3.09	0.40
1:1:79:DA:C5	1:1:80:DA:C2	3.10	0.40
1:1:88:DA:N6	2:2:38:DT:C7	2.83	0.40
1:1:91:DT:H2"	1:1:92:DT:H73	2.04	0.40
1:1:105:DG:H21	8:G:83:ARG:HD2	1.86	0.40
1:1:105:DG:C2	8:G:86:LEU:HG	2.57	0.40
1:1:118:DG:H2"	1:1:119:DA:H2'	2.04	0.40
2:2:5:DC:H2'	2:2:5:DC:O5'	2.21	0.40
2:2:36:DT:H2"	2:2:37:DT:H71	2.04	0.40
2:2:54:DA:C4	2:2:55:DA:C4	3.10	0.40
2:2:59:DG:C8	2:2:59:DG:H5"	2.57	0.40
2:2:63:DC:C5	9:Y:187:ARG:NH1	2.82	0.40
3:A:41:PHE:CZ	3:A:332:LEU:HD23	2.57	0.40
3:A:90:THR:O	3:A:91:TYR:C	2.59	0.40
3:A:138:VAL:H	3:A:138:VAL:HG12	1.62	0.40
3:A:557:SER:O	3:A:560:GLN:HB2	2.21	0.40
3:A:573:LEU:HA	3:A:573:LEU:HD22	1.79	0.40
3:A:579:GLU:C	3:A:579:GLU:OE1	2.59	0.40
3:A:653:GLN:HB3	3:A:670:ALA:CB	2.52	0.40
3:A:656:LEU:HD23	3:A:669:LEU:O	2.21	0.40
3:A:664:VAL:O	3:A:664:VAL:HG23	2.20	0.40
3:A:697:ASN:N	3:A:701:ALA:HB3	2.33	0.40
3:A:820:PHE:N	3:A:835:VAL:O	2.53	0.40
3:A:926:GLU:HG3	4:B:165:GLU:HA	2.03	0.40
3:A:1087:HIS:HE1	6:E:11:TYR:CE1	2.36	0.40
3:A:1091:THR:O	3:A:1092:GLN:C	2.57	0.40
4:B:97:THR:CA	4:B:422:GLN:HG2	2.48	0.40
4:B:222:VAL:C	4:B:223:ARG:HD2	2.41	0.40
4:B:389:PRO:CD	4:B:399:PRO:HG3	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:453:VAL:HA	4:B:483:LEU:N	2.37	0.40
4:B:497:VAL:CG2	4:B:510:LEU:O	2.70	0.40
4:B:643:ILE:HG21	4:B:676:GLN:NE2	2.30	0.40
4:B:968:ALA:HB1	4:B:970:ARG:CZ	2.51	0.40
4:B:1173:VAL:HG13	4:B:1174:GLU:N	2.35	0.40
5:C:68:VAL:HG23	5:C:69:PRO:CD	2.47	0.40
5:C:107:ILE:HD12	5:C:107:ILE:HG23	1.56	0.40
5:C:186:ASP:O	5:C:187:GLY:C	2.59	0.40
5:D:102:ASN:HA	5:D:134:GLY:O	2.21	0.40
5:D:124:THR:O	5:D:125:GLN:C	2.57	0.40
5:D:144:ARG:HG2	5:D:145:GLY:N	2.37	0.40
5:D:180:VAL:HG12	5:D:181:GLU:N	2.36	0.40
5:D:186:ASP:OD1	5:D:186:ASP:N	2.52	0.40
5:D:197:GLU:O	5:D:197:GLU:HG3	2.06	0.40
6:E:42:PRO:HD2	6:E:43:GLU:OE1	2.21	0.40
6:E:149:SER:N	6:E:150:PRO:HD2	2.37	0.40
6:E:206:ALA:HB2	6:E:232:ASP:OD1	2.22	0.40
6:E:305:MET:O	6:E:307:GLN:N	2.54	0.40
6:E:485:ALA:O	6:E:488:ARG:N	2.55	0.40
6:E:505:PRO:O	6:E:505:PRO:CD	2.68	0.40
6:E:520:LEU:C	6:E:520:LEU:CD2	2.71	0.40
6:E:540:ASP:C	6:E:542:ILE:N	2.75	0.40
8:G:126:ARG:O	8:G:127:ASP:HB3	2.22	0.40
8:G:236:TYR:CD2	8:G:236:TYR:N	2.89	0.40
8:G:249:LEU:CD1	8:G:262:ILE:HD13	2.52	0.40
8:G:353:GLU:O	8:G:357:ILE:HG13	2.21	0.40
9:X:33:THR:CB	9:X:91:HIS:CE1	3.05	0.40
9:X:47:LEU:HD21	9:X:69:LEU:C	2.42	0.40
9:X:69:LEU:HD21	9:X:73:SER:CB	2.52	0.40
9:X:153:LEU:O	9:X:156:LEU:HB2	2.20	0.40
9:Y:126:LEU:HA	9:Y:129:ARG:CZ	2.50	0.40
9:Y:139:THR:HB	9:Y:151:SER:OG	2.20	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%)	634 (59%)	407 (38%)	34 (3%)	4	31
4	B	1209/1350 (90%)	684 (57%)	466 (38%)	59 (5%)	2	21
5	C	224/236 (95%)	131 (58%)	84 (38%)	9 (4%)	3	26
5	D	224/236 (95%)	144 (64%)	72 (32%)	8 (4%)	3	29
6	E	618/625 (99%)	405 (66%)	195 (32%)	18 (3%)	4	33
7	F	56/78 (72%)	36 (64%)	19 (34%)	1 (2%)	8	43
8	G	312/390 (80%)	201 (64%)	100 (32%)	11 (4%)	3	30
9	X	194/223 (87%)	122 (63%)	61 (31%)	11 (6%)	1	18
9	Y	194/223 (87%)	124 (64%)	64 (33%)	6 (3%)	4	32
All	All	4106/4493 (91%)	2481 (60%)	1468 (36%)	157 (4%)	5	27

All (157) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	A	615	PRO
3	A	616	THR
3	A	636	ARG
3	A	778	GLU
3	A	890	PRO
3	A	1090	GLU
3	A	1091	THR
4	B	331	THR
4	B	359	LEU
4	B	384	ILE
4	B	390	ARG
4	B	391	LYS
4	B	457	GLU
4	B	732	GLU
4	B	842	ARG
4	B	1039	VAL
4	B	1087	PRO
4	B	1203	ASN
5	C	27	PRO
5	C	146	LYS
5	D	20	TYR
5	D	27	PRO

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Mol	Chain	Res	Type
5	D	185	ALA
6	E	48	ARG
6	E	54	MET
6	E	184	VAL
7	F	49	SER
8	G	352	GLU
9	X	59	GLU
9	Y	46	PHE
3	A	29	ASP
3	A	73	LYS
3	A	176	GLU
3	A	695	GLY
3	A	886	PRO
4	B	122	VAL
4	B	253	THR
4	B	283	ARG
4	B	288	CYS
4	B	310	ASP
4	B	361	ARG
4	B	372	HIS
4	B	376	ALA
4	B	406	GLN
4	B	456	ALA
4	B	519	HIS
4	B	524	ARG
4	B	653	TYR
4	B	754	SER
4	B	1038	VAL
4	B	1171	ARG
4	B	1172	GLN
5	C	161	LEU
5	C	187	GLY
5	D	16	SER
6	E	36	VAL
6	E	53	GLU
6	E	164	GLU
6	E	336	ASP
6	E	601	VAL
8	G	125	GLU
8	G	132	GLU
8	G	163	LEU
8	G	221	ALA

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Mol	Chain	Res	Type
8	G	293	GLU
8	G	344	ASP
9	X	47	LEU
9	X	81	LEU
9	X	143	ARG
9	Y	35	PHE
3	A	45	GLY
3	A	189	LYS
3	A	229	PHE
3	A	603	ALA
3	A	708	LEU
4	B	9	ASP
4	B	353	MET
4	B	371	ARG
4	B	543	SER
4	B	731	PRO
4	B	848	ALA
4	B	1060	ASP
5	D	28	LEU
6	E	55	ASP
6	E	202	LEU
8	G	209	TYR
8	G	225	GLN
9	X	113	LYS
9	Y	89	PHE
9	Y	109	GLU
9	Y	176	HIS
9	Y	198	ARG
3	A	219	PHE
3	A	631	LYS
3	A	745	GLU
3	A	887	LEU
3	A	1060	ALA
4	B	92	GLN
4	B	94	VAL
4	B	350	ARG
4	B	362	LYS
4	B	389	PRO
4	B	396	THR
4	B	525	LEU
4	B	571	VAL
4	B	584	ASN

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Mol	Chain	Res	Type
4	B	668	ASN
4	B	734	PRO
4	B	1023	PRO
4	B	1089	ASN
4	B	1252	ASN
5	C	16	SER
5	C	26	GLU
5	C	135	LYS
5	C	172	PRO
5	D	172	PRO
5	D	189	ILE
6	E	68	ASP
6	E	163	SER
6	E	221	ARG
6	E	237	THR
9	X	216	VAL
3	A	103	ASN
3	A	193	LEU
3	A	286	PRO
3	A	634	GLU
3	A	916	ILE
3	A	927	SER
4	B	662	LYS
4	B	902	HIS
5	C	222	ASN
5	D	26	GLU
6	E	272	LEU
6	E	493	ALA
8	G	345	ASP
9	X	42	GLU
9	X	114	GLU
9	X	142	HIS
3	A	807	PRO
4	B	1164	PRO
6	E	207	GLU
8	G	360	VAL
3	A	252	GLY
9	X	40	PRO
3	A	598	VAL
4	B	134	ILE
4	B	399	PRO
3	A	692	PRO

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Mol	Chain	Res	Type
4	B	412	ILE
9	X	215	PRO
3	A	392	PRO
3	A	773	VAL
4	B	360	PRO
4	B	413	VAL
4	B	526	PRO
6	E	433	ALA
4	B	521	GLY

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%)	889 (97%)	29 (3%)	39	70
4	B	1017/1132 (90%)	983 (97%)	34 (3%)	38	69
5	C	196/205 (96%)	189 (96%)	7 (4%)	35	67
5	D	196/205 (96%)	189 (96%)	7 (4%)	35	67
6	E	534/538 (99%)	510 (96%)	24 (4%)	27	62
7	F	50/69 (72%)	50 (100%)	0	100	100
8	G	282/351 (80%)	272 (96%)	10 (4%)	36	68
9	X	172/194 (89%)	167 (97%)	5 (3%)	42	72
9	Y	172/194 (89%)	167 (97%)	5 (3%)	42	72
All	All	3537/3857 (92%)	3416 (97%)	121 (3%)	40	69

All (121) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	A	64	GLU
3	A	65	LEU
3	A	66	HIS
3	A	68	LEU
3	A	99	THR

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Mol	Chain	Res	Type
3	A	101	LEU
3	A	121	LEU
3	A	202	LEU
3	A	217	GLU
3	A	229	PHE
3	A	231	GLU
3	A	238	LEU
3	A	318	ASP
3	A	466	VAL
3	A	471	VAL
3	A	474	ASP
3	A	483	ASP
3	A	485	GLU
3	A	513	ARG
3	A	537	VAL
3	A	610	VAL
3	A	649	THR
3	A	650	CYS
3	A	694	GLU
3	A	712	ASP
3	A	748	LEU
3	A	891	SER
3	A	916	ILE
3	A	1022	VAL
4	B	7	VAL
4	B	9	ASP
4	B	42	ARG
4	B	50	SER
4	B	51	ILE
4	B	122	VAL
4	B	202	ASP
4	B	212	ILE
4	B	247	ASP
4	B	294	VAL
4	B	298	CYS
4	B	386	ILE
4	B	389	PRO
4	B	409	THR
4	B	412	ILE
4	B	449	LEU
4	B	469	ASN
4	B	503	ARG

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Mol	Chain	Res	Type
4	B	584	ASN
4	B	596	TYR
4	B	600	THR
4	B	755	THR
4	B	822	LEU
4	B	894	VAL
4	B	1025	GLU
4	B	1089	ASN
4	B	1098	PHE
4	B	1139	LYS
4	B	1189	GLN
4	B	1193	VAL
4	B	1214	GLN
4	B	1216	THR
4	B	1217	THR
4	B	1232	LEU
5	C	12	ASN
5	C	34	THR
5	C	35	THR
5	C	36	VAL
5	C	93	GLN
5	C	161	LEU
5	C	186	ASP
5	D	6	ILE
5	D	95	GLN
5	D	150	THR
5	D	151	VAL
5	D	222	ASN
5	D	226	ASP
5	D	228	SER
6	E	9	PHE
6	E	24	GLN
6	E	30	LEU
6	E	45	ILE
6	E	79	VAL
6	E	91	VAL
6	E	94	THR
6	E	148	LEU
6	E	149	SER
6	E	155	THR
6	E	156	LEU
6	E	157	THR

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Mol	Chain	Res	Type
6	E	165	ASP
6	E	167	TRP
6	E	176	SER
6	E	398	VAL
6	E	435	THR
6	E	537	SER
6	E	538	LEU
6	E	555	TYR
6	E	558	VAL
6	E	580	GLU
6	E	600	ASN
6	E	609	THR
8	G	79	GLU
8	G	98	ASP
8	G	101	ILE
8	G	175	ASN
8	G	178	LEU
8	G	180	PHE
8	G	279	SER
8	G	336	VAL
8	G	371	LYS
8	G	387	GLU
9	X	127	SER
9	X	132	GLN
9	X	152	PHE
9	X	194	LEU
9	X	203	ILE
9	Y	57	VAL
9	Y	58	TYR
9	Y	137	ILE
9	Y	144	ASP
9	Y	150	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (51) such sidechains are listed below:

Mol	Chain	Res	Type
3	A	70	HIS
3	A	71	ASN
3	A	140	GLN
3	A	278	ASN
3	A	454	ASN
3	A	500	ASN

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Mol	Chain	Res	Type
3	A	514	GLN
3	A	523	GLN
3	A	624	ASN
3	A	643	GLN
3	A	653	GLN
3	A	684	GLN
3	A	856	HIS
3	A	858	ASN
3	A	1015	GLN
4	B	117	ASN
4	B	406	GLN
4	B	573	ASN
4	B	584	ASN
4	B	625	GLN
4	B	760	GLN
4	B	831	GLN
4	B	939	GLN
4	B	1118	GLN
4	B	1140	HIS
4	B	1252	ASN
5	C	3	GLN
5	C	12	ASN
5	C	93	GLN
5	C	125	GLN
5	C	207	GLN
5	C	222	ASN
5	D	18	ASN
5	D	32	GLN
5	D	111	HIS
5	D	125	GLN
5	D	207	GLN
5	D	222	ASN
6	E	46	ASN
6	E	166	GLN
6	E	261	GLN
6	E	549	GLN
6	E	616	ASN
8	G	149	HIS
8	G	181	GLN
8	G	225	GLN
8	G	234	HIS
8	G	312	GLN

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Mol	Chain	Res	Type
8	G	316	ASN
8	G	378	HIS
9	X	91	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 monosaccharides 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	18
6	E	16
4	B	7
5	C	5
5	D	5
8	G	2
2	2	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	67:DA	O3'	68:DT	P	1.90
1	A	144:SER	C	145:PRO	N	1.20
1	E	256:LEU	C	257:ARG	N	1.20
1	E	374:GLY	C	375:LEU	N	1.20
1	A	247:PRO	C	248:PRO	N	1.19
1	A	690:TYR	C	691:MET	N	1.19
1	E	60:GLU	C	61:ARG	N	1.19
1	E	384:PHE	C	385:GLN	N	1.19
1	E	572:GLU	C	573:PRO	N	1.19
1	G	288:THR	C	289:PRO	N	1.19
1	A	166:ILE	C	167:PRO	N	1.18
1	A	806:VAL	C	807:PRO	N	1.18
1	B	508:GLY	C	509:VAL	N	1.18
1	B	1011:LEU	C	1012:PRO	N	1.18
1	E	507:ILE	C	508:THR	N	1.18
1	A	490:VAL	C	491:ALA	N	1.17
1	G	201:GLU	C	202:LYS	N	1.17
1	A	520:THR	C	521:PRO	N	1.16
1	A	996:GLY	C	997:PRO	N	1.16
1	A	1078:GLN	C	1079:SER	N	1.16
1	C	44:LEU	C	45:LEU	N	1.16
1	C	103:GLY	C	104:PRO	N	1.16
1	D	44:LEU	C	45:LEU	N	1.16
1	D	103:GLY	C	104:PRO	N	1.16
1	E	116:TRP	C	117:TYR	N	1.16
1	E	142:PHE	C	143:ASN	N	1.16
1	B	708:LEU	C	709:GLN	N	1.15
1	E	348:ASN	C	349:LEU	N	1.15
1	A	143:ARG	C	144:SER	N	1.14
1	A	495:ILE	C	496:PRO	N	1.14
1	C	171:MET	C	172:PRO	N	1.14
1	D	171:MET	C	172:PRO	N	1.14
1	A	1004:GLN	C	1005:PRO	N	1.13
1	B	258:ALA	C	259:PRO	N	1.13
1	B	262:THR	C	263:PRO	N	1.13
1	E	477:VAL	C	478:PRO	N	1.13
1	B	220:ILE	C	221:PRO	N	1.12
1	A	391:ASN	C	392:PRO	N	1.11
1	A	423:HIS	C	424:PRO	N	1.11
1	A	866:LEU	C	867:PRO	N	1.11
1	C	205:SER	C	206:PRO	N	1.10
1	D	205:SER	C	206:PRO	N	1.10
1	E	249:ILE	C	250:PRO	N	1.10

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	499:SER	C	500:PRO	N	1.09
1	A	564:VAL	C	565:PRO	N	1.08
1	E	253:PRO	C	254:PRO	N	1.08
1	E	508:THR	C	509:PRO	N	1.08
1	E	51:LYS	C	52:PRO	N	1.07
1	E	385:GLN	C	386:PRO	N	1.06
1	A	27:LEU	C	28:PRO	N	1.05
1	B	974:VAL	C	975:SER	N	1.04
1	A	865:ILE	C	866:LEU	N	0.98
1	C	170:PHE	C	171:MET	N	0.98
1	D	170:PHE	C	171:MET	N	0.98

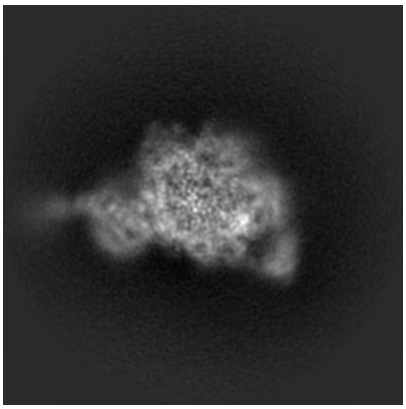
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-34476. These allow visual inspection of the internal detail of the map and identification of artifacts.

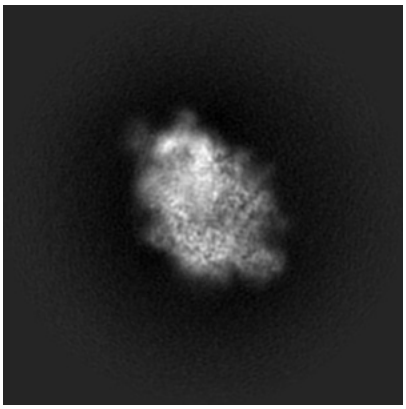
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

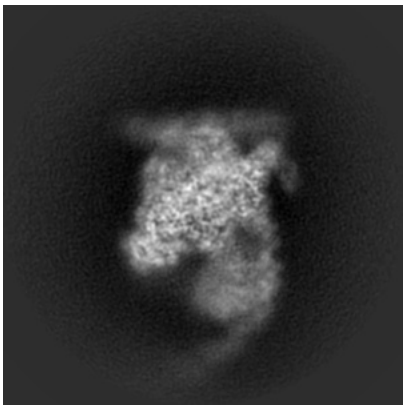
6.1.1 Primary map



X

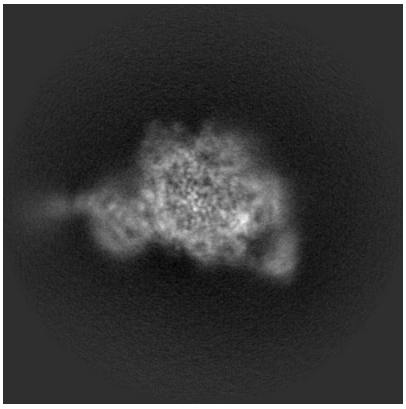


Y

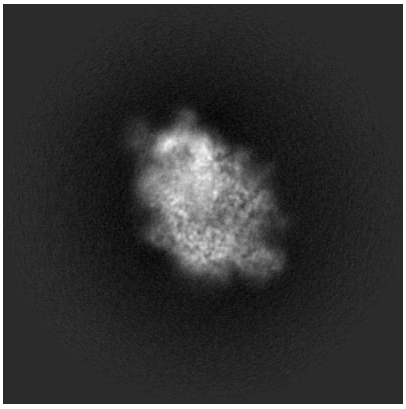


Z

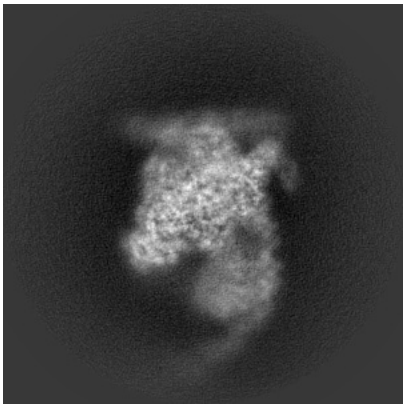
6.1.2 Raw map



X



Y

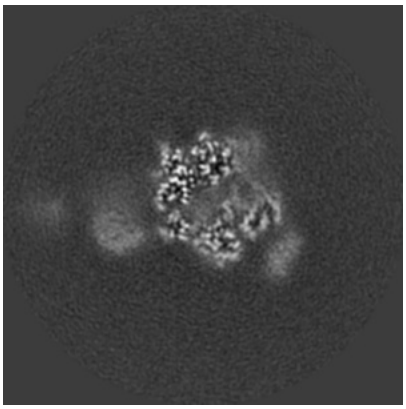


Z

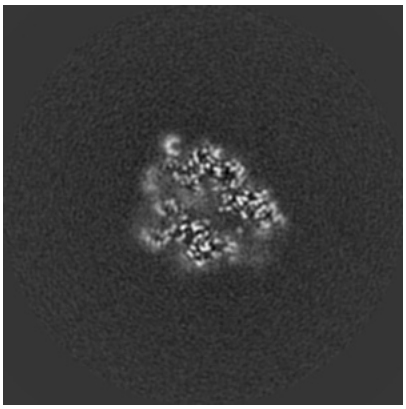
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

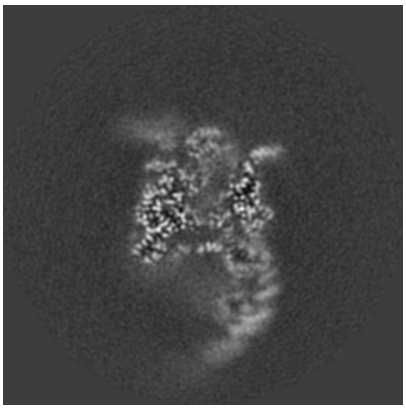
6.2.1 Primary map



X Index: 150

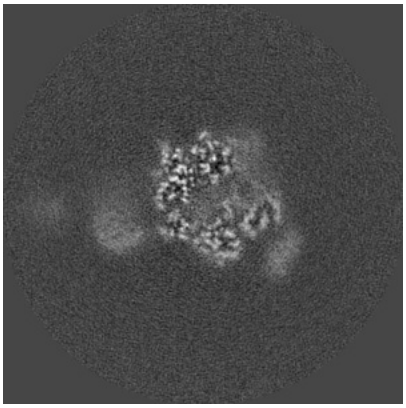


Y Index: 150

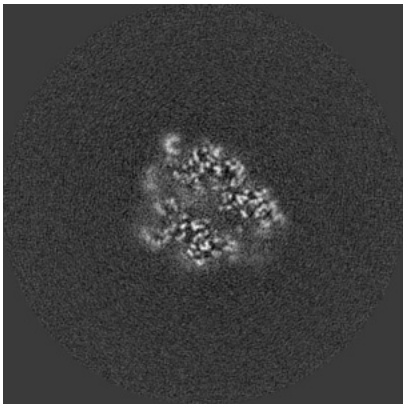


Z Index: 150

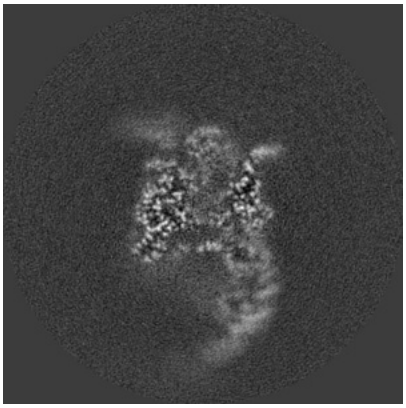
6.2.2 Raw map



X Index: 150



Y Index: 150

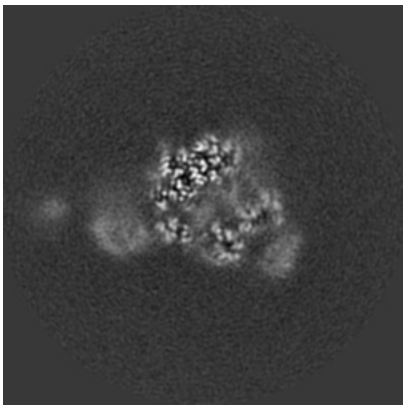


Z Index: 150

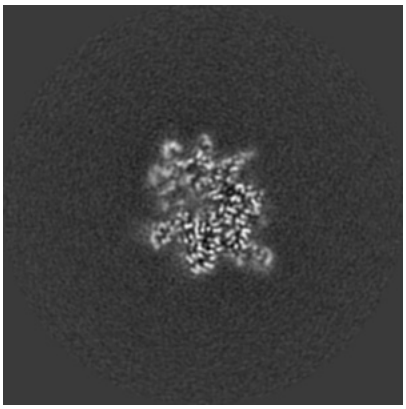
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

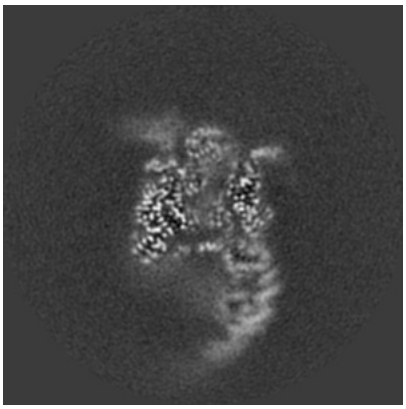
6.3.1 Primary map



X Index: 154

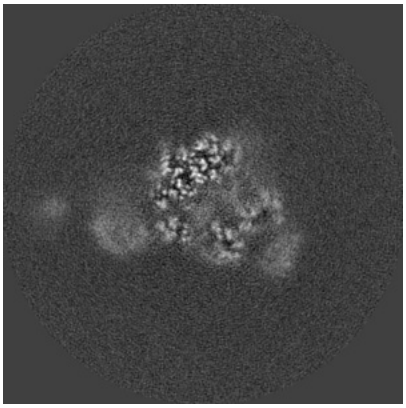


Y Index: 143

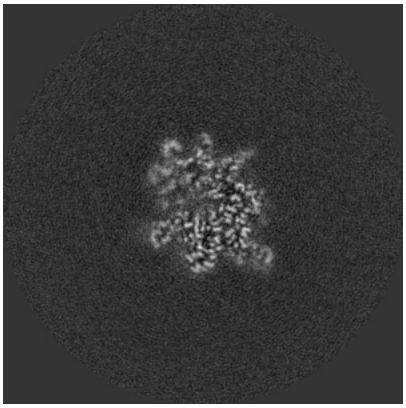


Z Index: 149

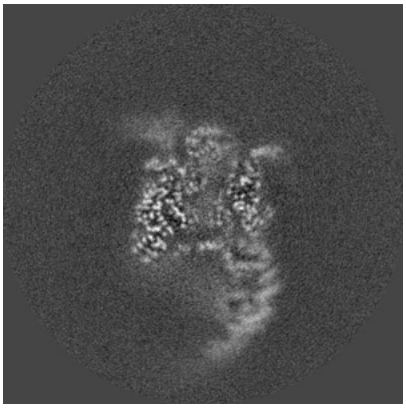
6.3.2 Raw map



X Index: 154



Y Index: 143

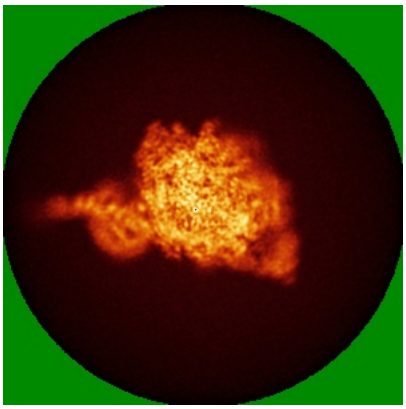


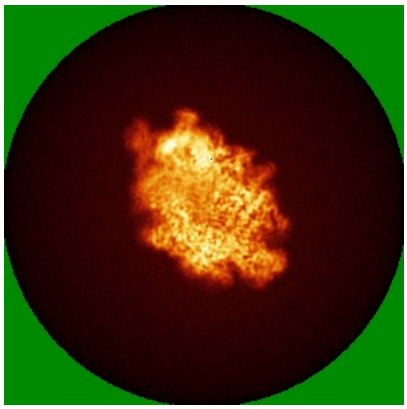
Z Index: 149

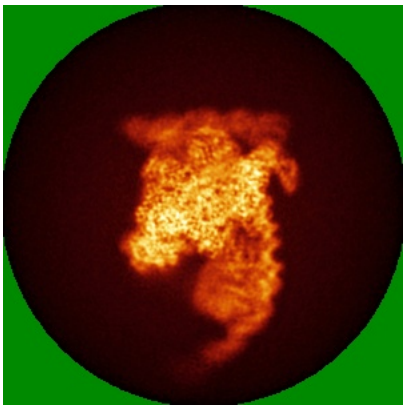
The images above show the largest variance slices of the map in three orthogonal directions.

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

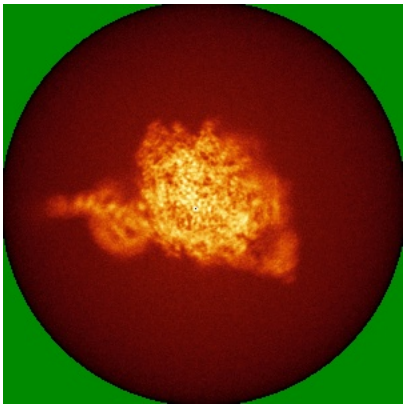
6.4.1 Primary map

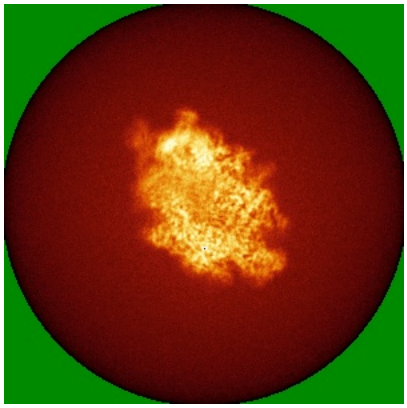

X

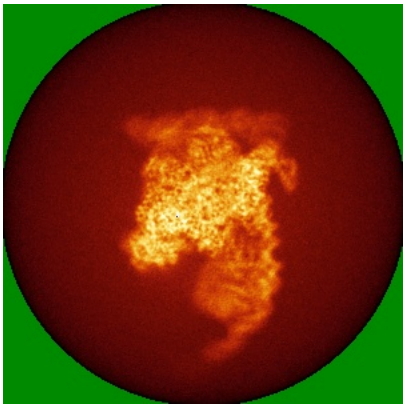

Y


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.

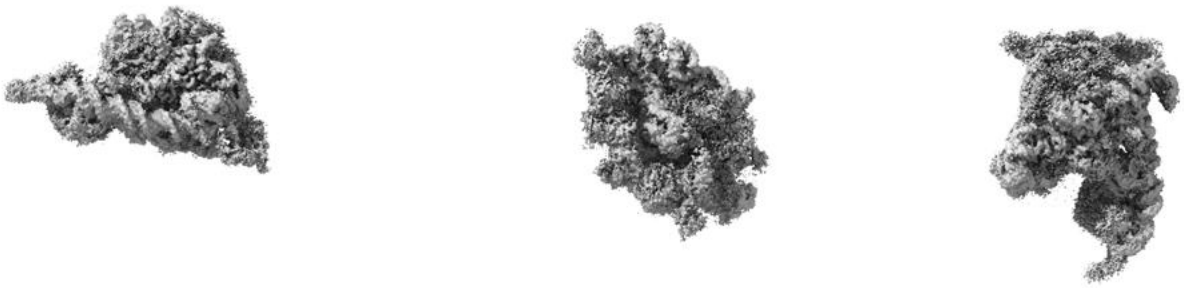
6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.01. 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.

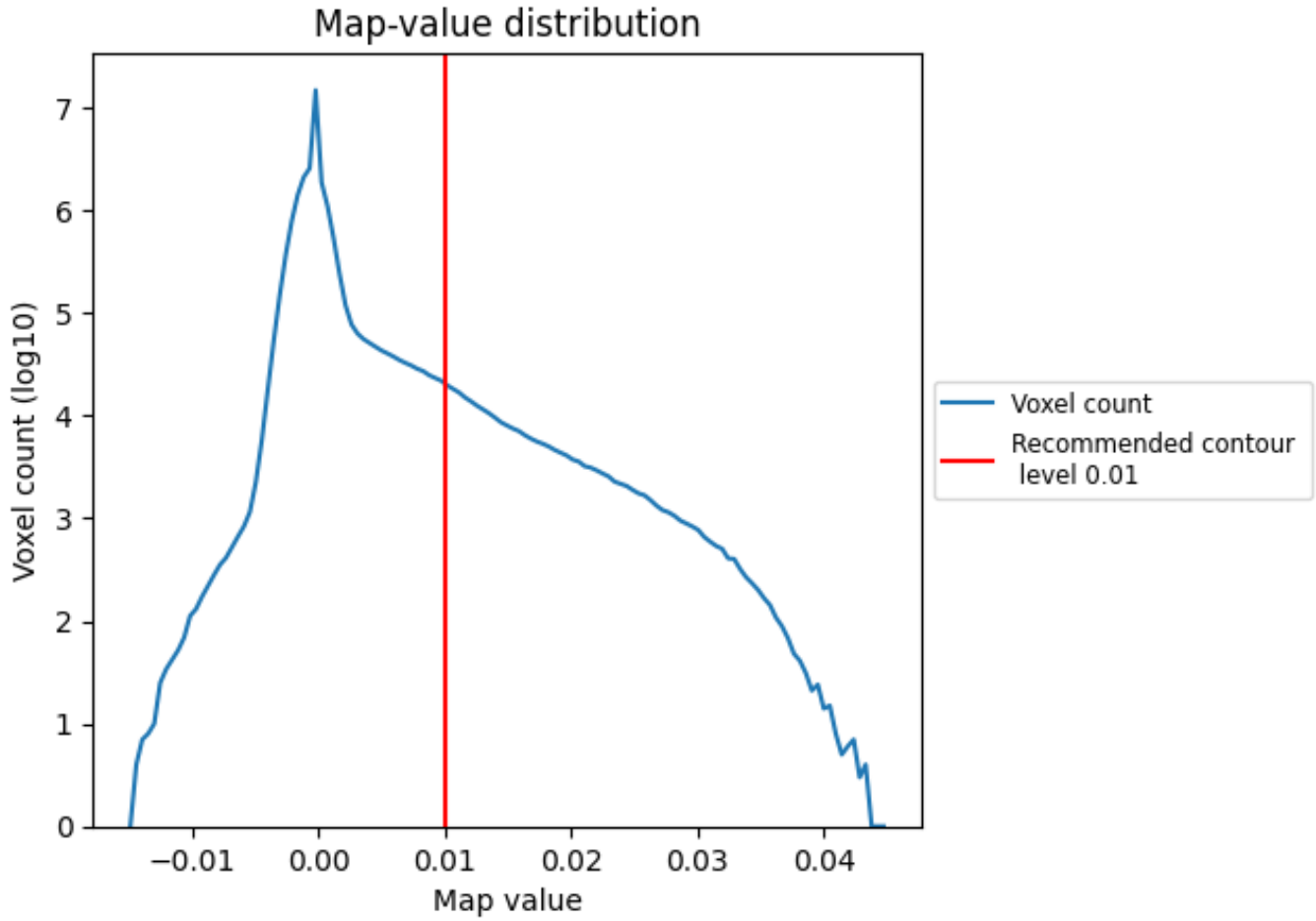
6.6 Mask visualisation (i)

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

7 Map analysis

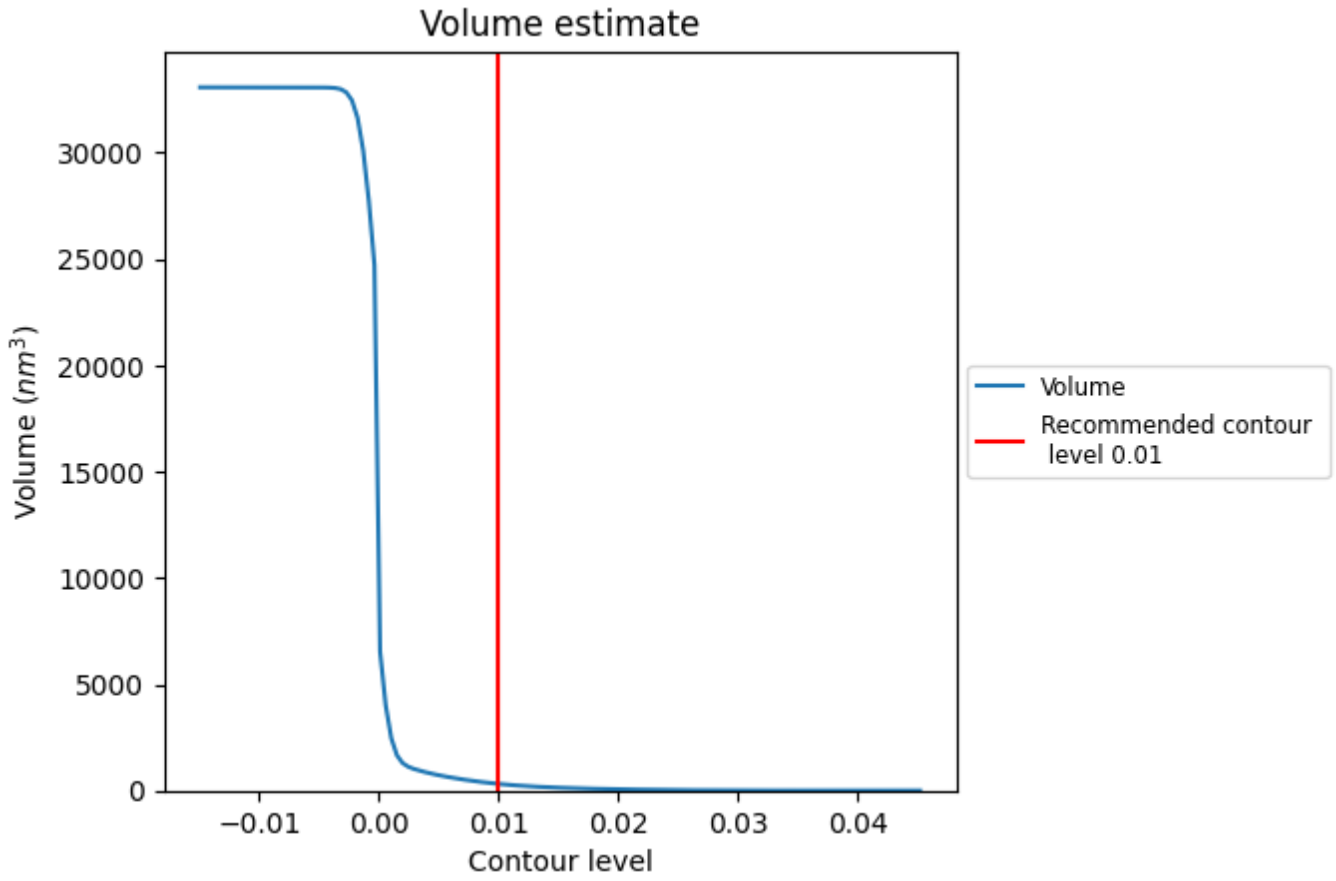
This section contains the results of statistical analysis of the map.

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.

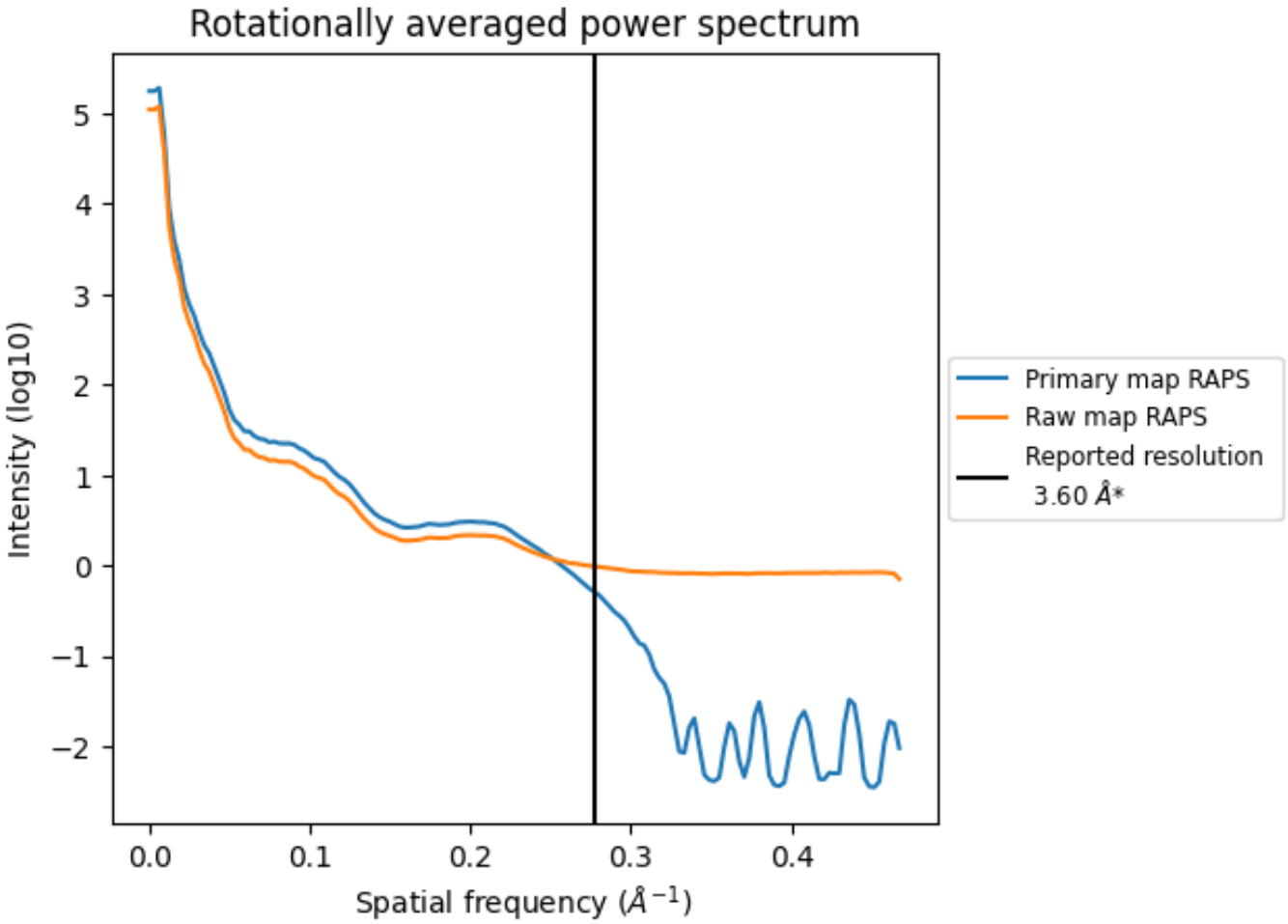
7.2 Volume estimate



The volume at the recommended contour level is 315 nm^3; this corresponds to an approximate mass of 284 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)

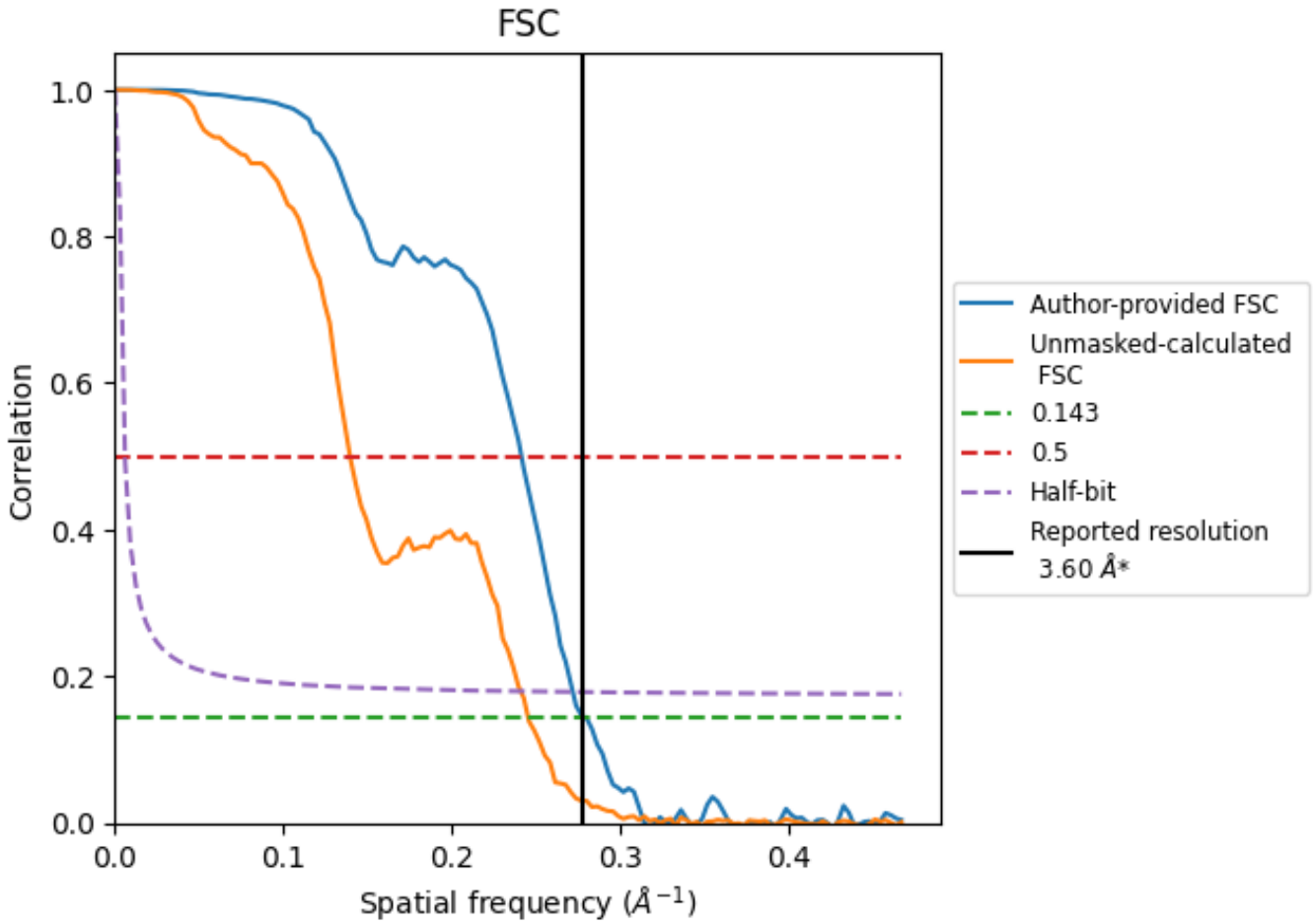


*Reported resolution corresponds to spatial frequency of 0.278 Å^{-1}

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 0.278 Å^{-1}

8.2 Resolution estimates (i)

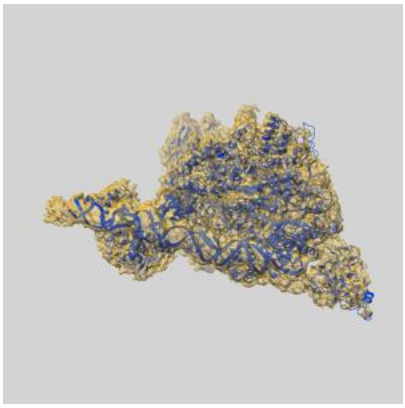
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.60	-	-
Author-provided FSC curve	3.57	4.14	3.67
Unmasked-calculated*	4.07	7.15	4.15

*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 4.07 differs from the reported value 3.6 by more than 10 %

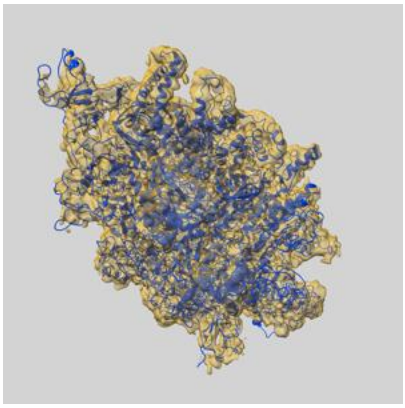
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-34476 and PDB model 8H40. Per-residue inclusion information can be found in section 3 on page 6.

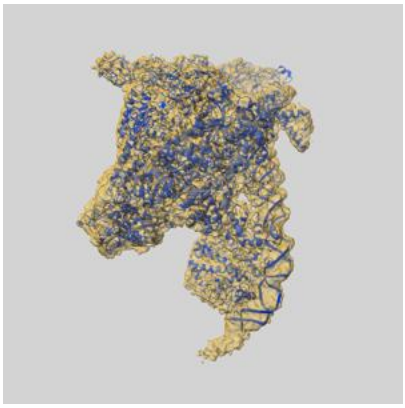
9.1 Map-model overlay



X



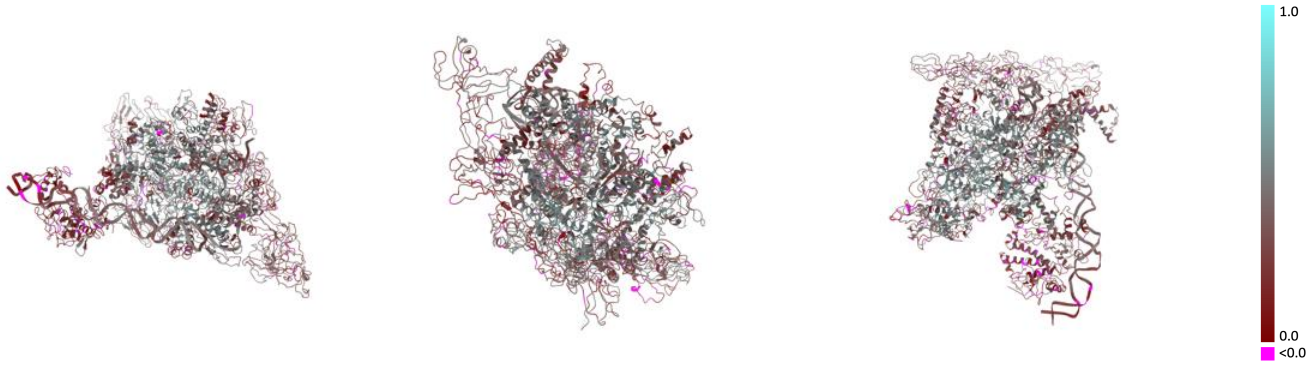
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.01 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.

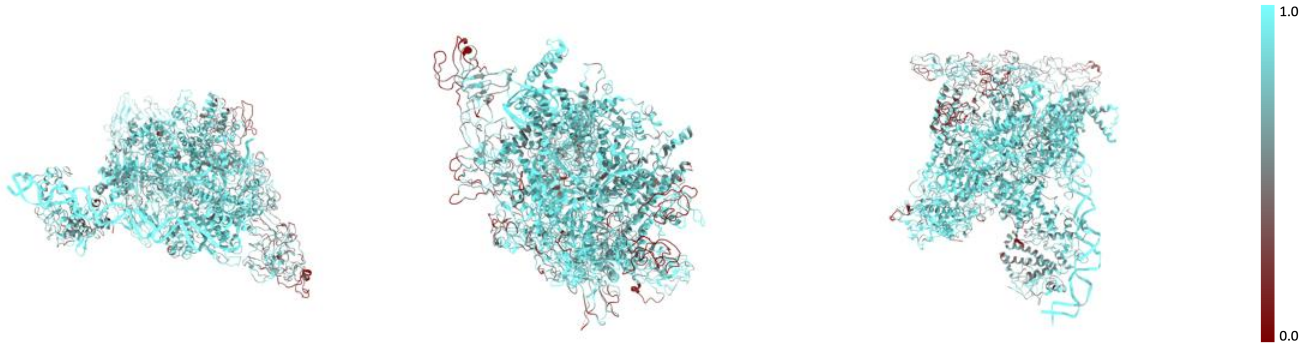
9.2 Q-score mapped to coordinate model (i)



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.

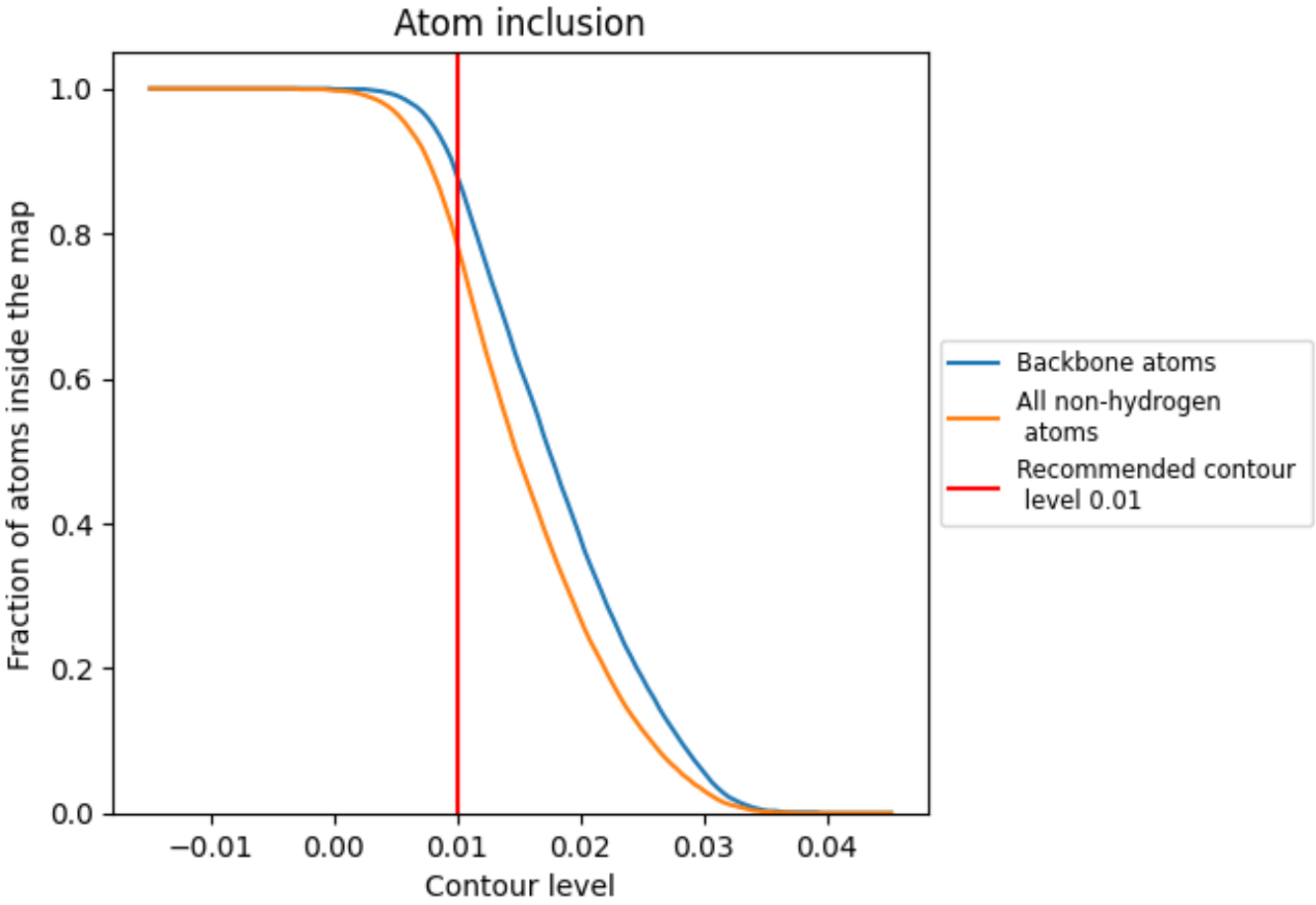
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.01).

9.4 Atom inclusion (i)



At the recommended contour level, 88% of all backbone atoms, 78% 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 (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7850	0.3530
1	0.9600	0.3610
2	0.9420	0.3390
A	0.8800	0.4270
B	0.6250	0.3320
C	0.8400	0.3720
D	0.8060	0.3160
E	0.8600	0.4120
F	0.7460	0.3130
G	0.8080	0.3080
X	0.7120	0.2080
Y	0.6830	0.1450