



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:20 PM UTC

PDB ID : 1H38 / pdb_00001h38
Title : Structure of a T7 RNA polymerase elongation complex at 2.9Å resolution
Authors : Tahirov, T.H.; Temyakov, D.; Anikin, M.; Patlan, V.; McAllister, W.T.; Vassilyev, D.G.; Yokoyama, S.
Deposited on : 2002-08-24
Resolution : 2.90 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity : 4-5-2 with Phenix2.0
Xtriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

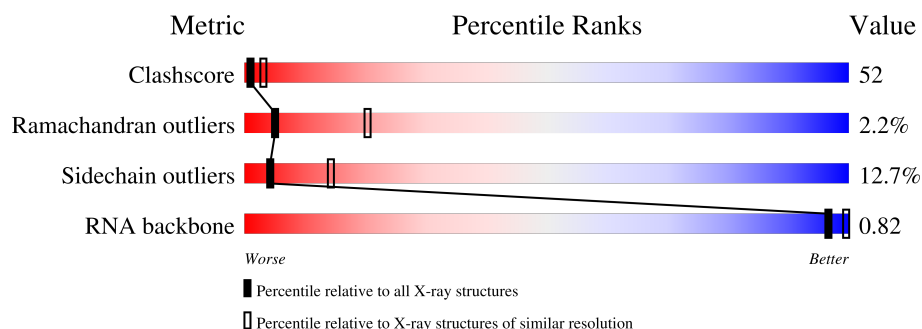
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 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)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	2690 (2.90-2.90)
Ramachandran outliers	187476	2623 (2.90-2.90)
Sidechain outliers	187428	2625 (2.90-2.90)
RNA backbone	3983	1120 (3.10-2.70)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	883	36% 50% 10% ..
1	B	883	36% 49% 11% ..
1	C	883	37% 50% 9% ..
1	D	883	36% 51% 9% .
2	E	18	61% 17% 17% 6%
2	H	18	17% 39% 28% 17%

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Mol	Chain	Length	Quality of chain
2	K	18	
2	N	18	
3	F	12	
3	I	12	
3	L	12	
3	O	12	
4	G	10	
4	J	10	
4	M	10	
4	P	10	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 30948 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-DIRECTED RNA POLYMERASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	857	Total	C	N	O	S	0	0	0
			6746	4296	1173	1242	35			
1	B	857	Total	C	N	O	S	0	0	0
			6746	4296	1173	1242	35			
1	C	857	Total	C	N	O	S	0	0	0
			6746	4296	1173	1242	35			
1	D	857	Total	C	N	O	S	0	0	0
			6746	4296	1173	1242	35			

- Molecule 2 is a DNA chain called 5'-D(*GP*GP*GP*AP*AP*TP*CP*GP*AP*CP *AP*TP*CP*GP*CP*CP*GP*C)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	E	17	Total	C	N	O	P	0	0	0
			345	164	67	98	16			
2	H	18	Total	C	N	O	P	0	0	0
			367	174	72	104	17			
2	K	17	Total	C	N	O	P	0	0	0
			345	164	67	98	16			
2	N	17	Total	C	N	O	P	0	0	0
			345	164	67	98	16			

- Molecule 3 is a RNA chain called 5'-R(*AP*AP*CP*UP*GP*CP*GP*GP*CP*GP *AP*U)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	F	8	Total	C	N	O	P	0	0	0
			171	77	33	54	7			
3	I	8	Total	C	N	O	P	0	0	0
			171	77	33	54	7			
3	L	8	Total	C	N	O	P	0	0	0
			171	77	33	54	7			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	O	8	Total	C	N	O	P	0	0	0
			171	77	33	54	7			

- Molecule 4 is a DNA chain called 5'-D(*GP*TP*CP*GP*AP*TP*TP*CP*CP*CP)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	G	9	Total	C	N	O	P	0	0	0
			179	87	30	54	8			
4	J	9	Total	C	N	O	P	0	0	0
			179	87	30	54	8			
4	M	9	Total	C	N	O	P	0	0	0
			179	87	30	54	8			
4	P	9	Total	C	N	O	P	0	0	0
			179	87	30	54	8			

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	310	Total	O	0	0
			310	310		
5	B	352	Total	O	0	0
			352	352		
5	C	185	Total	O	0	0
			185	185		
5	D	177	Total	O	0	0
			177	177		
5	E	13	Total	O	0	0
			13	13		
5	F	16	Total	O	0	0
			16	16		
5	G	12	Total	O	0	0
			12	12		
5	H	20	Total	O	0	0
			20	20		
5	I	11	Total	O	0	0
			11	11		
5	J	9	Total	O	0	0
			9	9		
5	K	17	Total	O	0	0
			17	17		
5	L	5	Total	O	0	0
			5	5		

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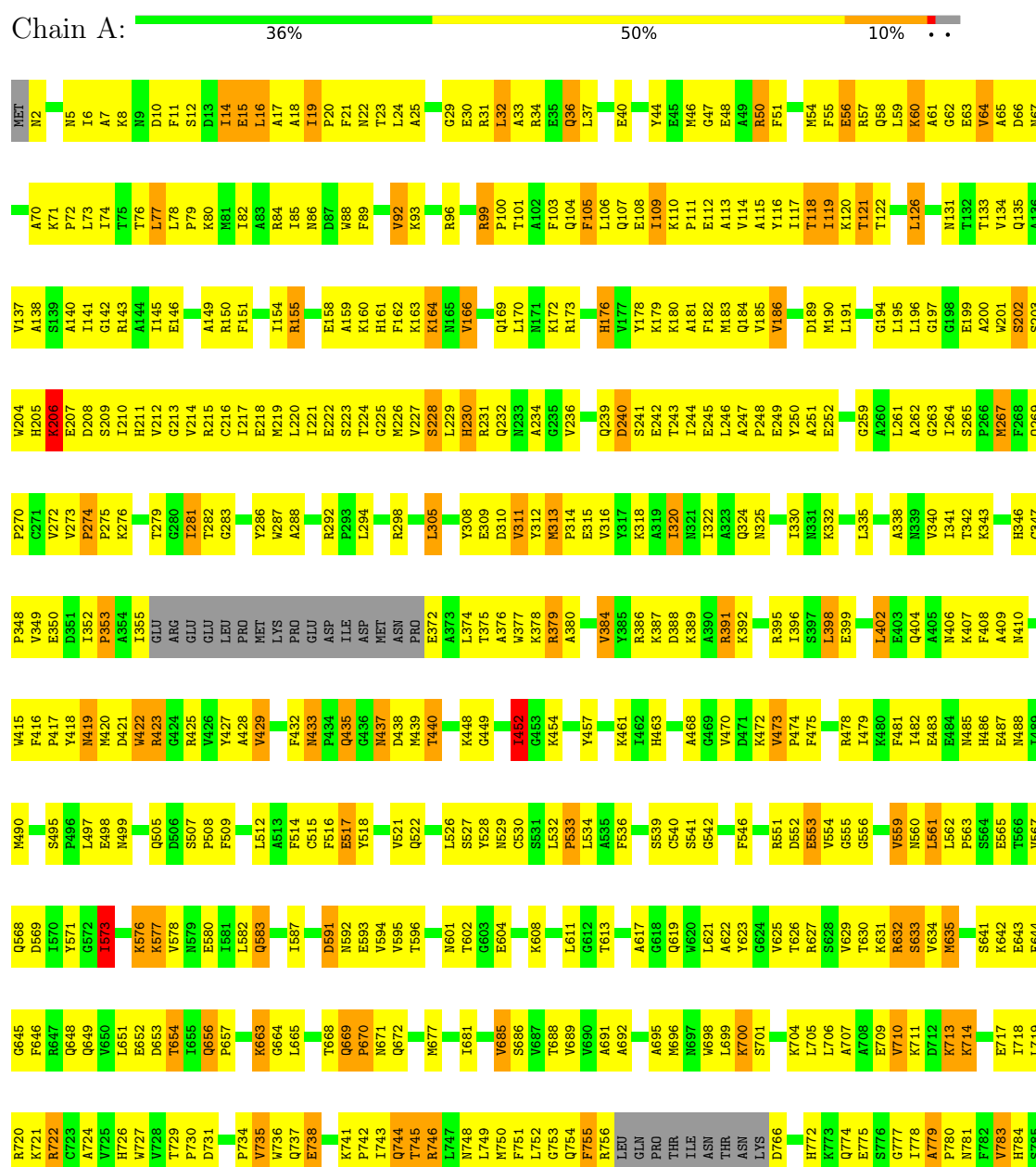
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	M	8	Total 8	O 8	0	0
5	N	12	Total 12	O 12	0	0
5	O	6	Total 6	O 6	0	0
5	P	9	Total 9	O 9	0	0

3 Residue-property plots

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

Note EDS was not executed.

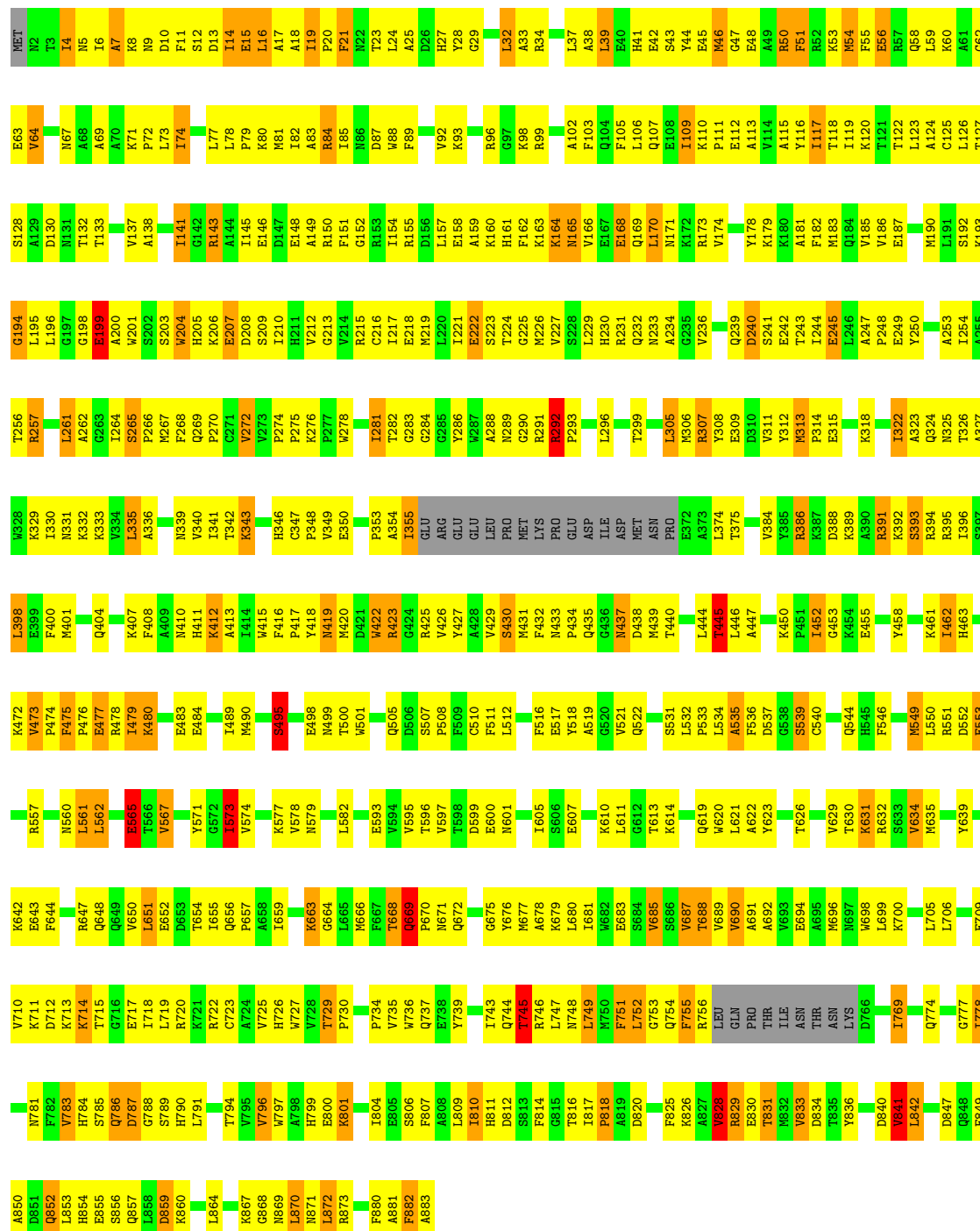
• Molecule 1: DNA-DIRECTED RNA POLYMERASE



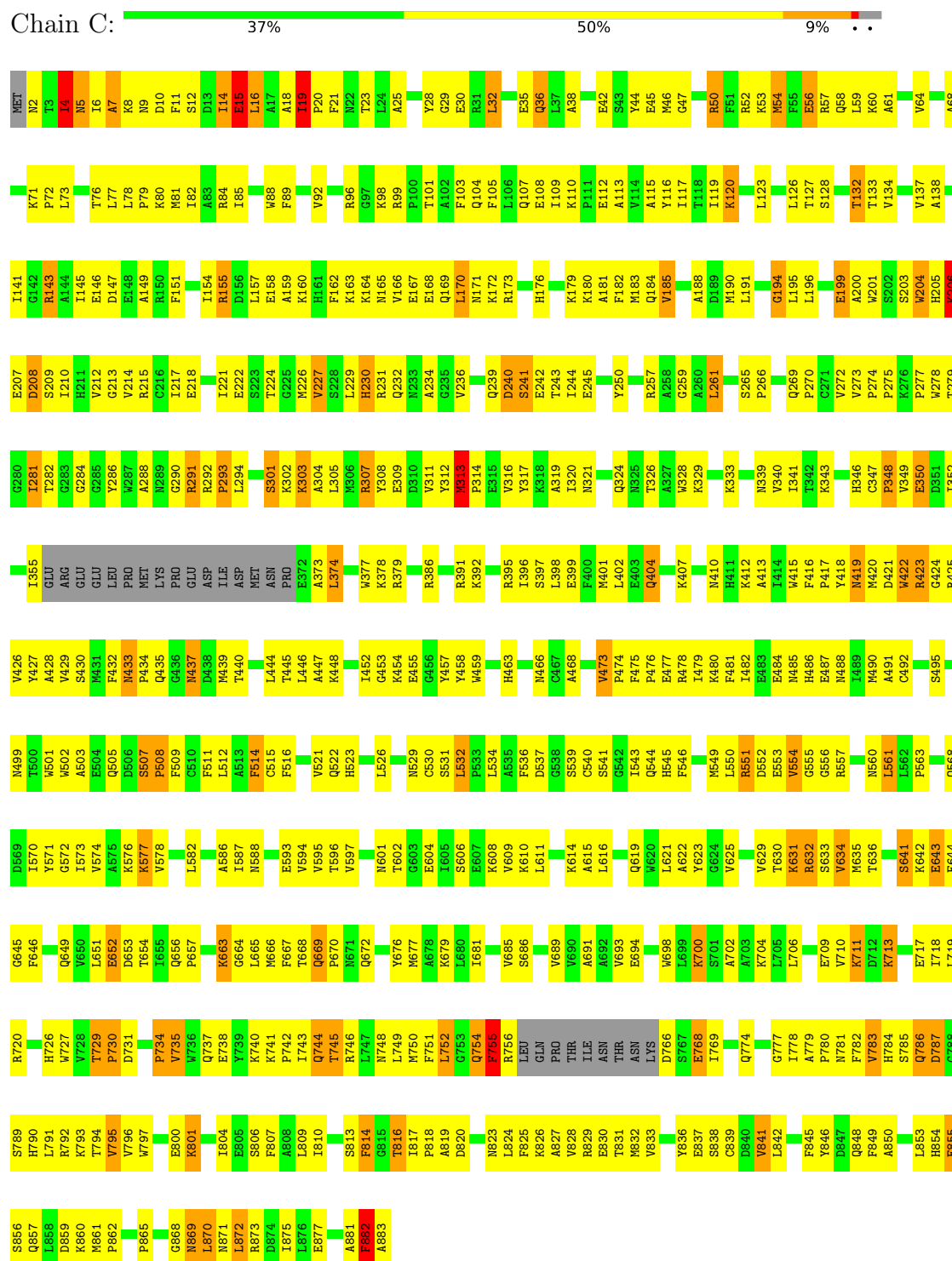


• Molecule 1: DNA-DIRECTED RNA POLYMERASE

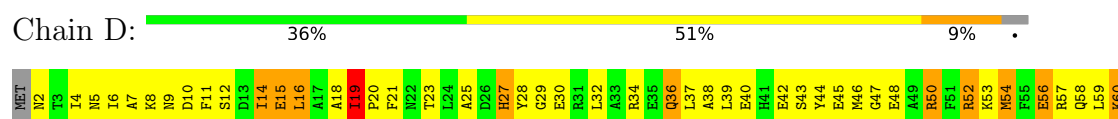
Chain B: 36% 49% 11% . .

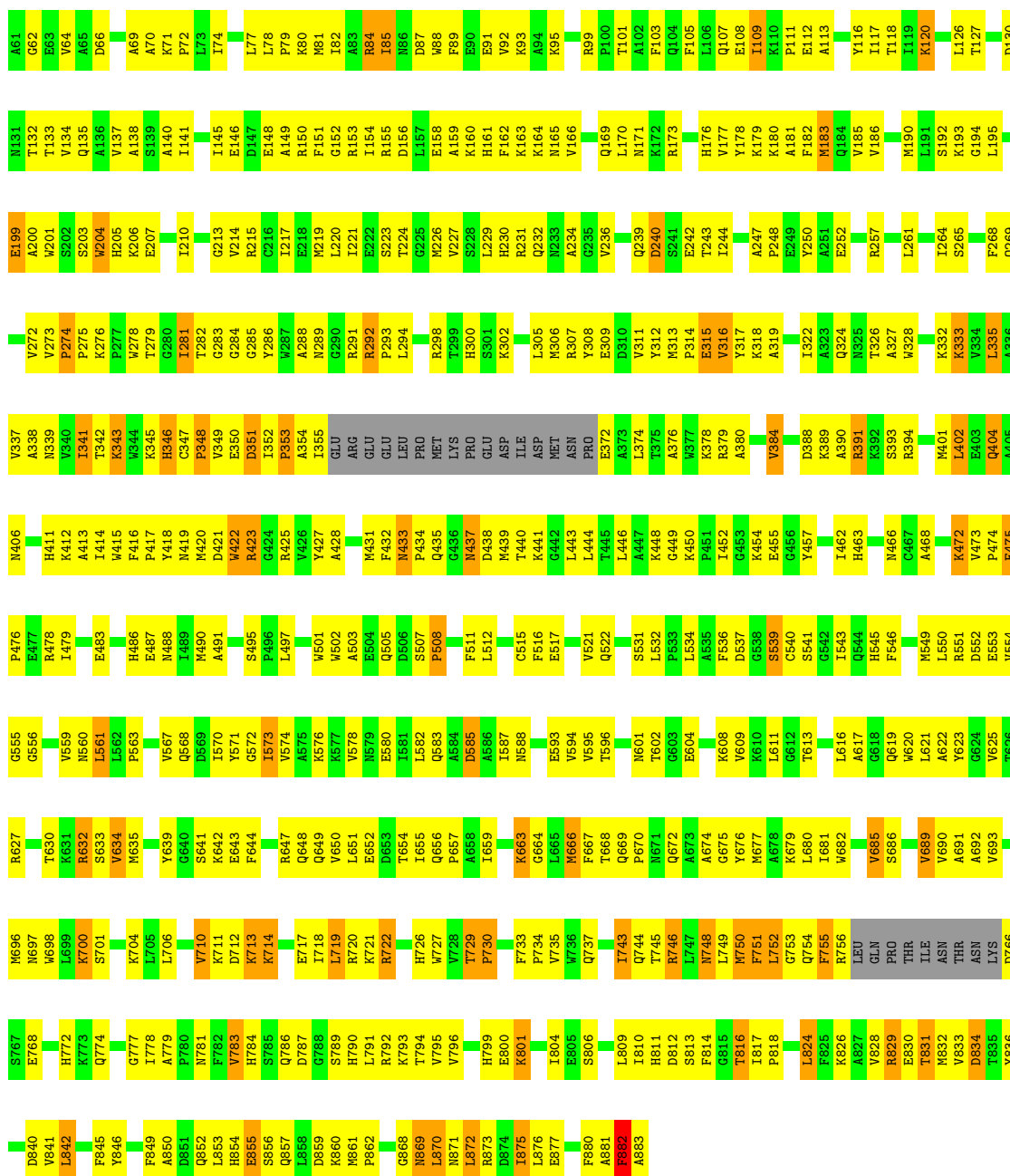


● Molecule 1: DNA-DIRECTED RNA POLYMERASE



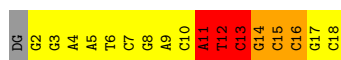
● Molecule 1: DNA-DIRECTED RNA POLYMERASE





• Molecule 2: 5'-D(*GP*GP*GP*AP*AP*TP*CP*GP*AP*CP *AP*TP*CP*GP*CP*CP*GP*C)-3'

Chain E: 61% 17% 17% 6%

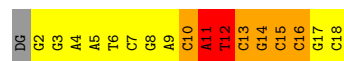
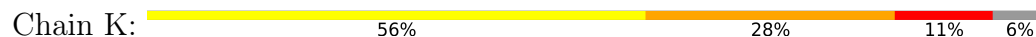


• Molecule 2: 5'-D(*GP*GP*GP*AP*AP*TP*CP*GP*AP*CP *AP*TP*CP*GP*CP*CP*GP*C)-3'

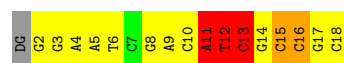
Chain H: 17% 39% 28% 17%



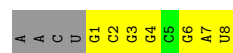
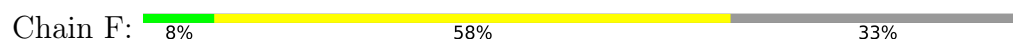
- Molecule 2: 5'-D(*GP*GP*GP*AP*AP*TP*CP*GP*AP*CP *AP*TP*CP*GP*CP*CP*GP*C)-3'



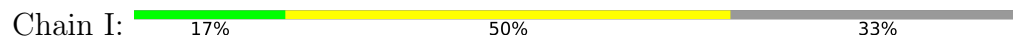
- Molecule 2: 5'-D(*GP*GP*GP*AP*AP*TP*CP*GP*AP*CP *AP*TP*CP*GP*CP*CP*GP*C)-3'



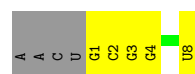
- Molecule 3: 5'-R(*AP*AP*CP*UP*GP*CP*GP*GP*CP*GP *AP*U)-3'



- Molecule 3: 5'-R(*AP*AP*CP*UP*GP*CP*GP*GP*CP*GP *AP*U)-3'



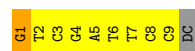
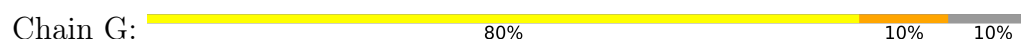
- Molecule 3: 5'-R(*AP*AP*CP*UP*GP*CP*GP*GP*CP*GP *AP*U)-3'



- Molecule 3: 5'-R(*AP*AP*CP*UP*GP*CP*GP*GP*CP*GP *AP*U)-3'



- Molecule 4: 5'-D(*GP*TP*CP*GP*AP*TP*TP*CP*CP*CP)-3'



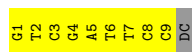
- Molecule 4: 5'-D(*GP*TP*CP*GP*AP*TP*TP*CP*CP*CP)-3'

Chain J:  20% 70% 10%



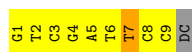
- Molecule 4: 5'-D(*GP*TP*CP*GP*AP*TP*TP*CP*CP*CP)-3'

Chain M:  90% 10%



- Molecule 4: 5'-D(*GP*TP*CP*GP*AP*TP*TP*CP*CP*CP)-3'

Chain P:  80% 10% 10%



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	79.91Å 84.97Å 202.00Å 90.36° 92.97° 109.94°	Depositor
Resolution (Å)	39.93 – 2.90	Depositor
% Data completeness (in resolution range)	98.0 (39.93-2.90)	Depositor
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.236 , 0.284	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	30948	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

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	A	1.10	21/6897 (0.3%)	1.12	22/9329 (0.2%)
1	B	1.12	18/6897 (0.3%)	1.15	22/9329 (0.2%)
1	C	0.76	3/6897 (0.0%)	1.00	8/9329 (0.1%)
1	D	0.69	1/6897 (0.0%)	0.97	13/9329 (0.1%)
2	E	0.53	0/387	1.13	3/595 (0.5%)
2	H	0.52	0/412	1.10	3/634 (0.5%)
2	K	0.50	0/387	1.09	2/595 (0.3%)
2	N	0.49	0/387	1.08	3/595 (0.5%)
3	F	0.67	0/191	0.75	0/297
3	I	0.68	0/191	0.78	0/297
3	L	0.53	0/191	0.75	0/297
3	O	0.45	0/191	0.69	0/297
4	G	0.50	0/199	0.82	0/305
4	J	0.47	0/199	0.95	0/305
4	M	0.42	0/199	0.88	0/305
4	P	0.46	0/199	1.00	0/305
All	All	0.91	43/30721 (0.1%)	1.05	76/42143 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	E	0	6
2	H	0	8
2	K	0	7
2	N	0	6
4	G	0	1
4	J	0	1
4	P	0	1
All	All	0	30

All (43) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	573	ILE	CA-CB	12.05	1.71	1.54
1	A	783	VAL	CA-CB	-9.90	1.43	1.54
1	B	778	ILE	CA-CB	9.19	1.65	1.54
1	A	630	THR	CA-CB	-8.85	1.42	1.54
1	A	654	THR	CA-CB	8.44	1.67	1.53
1	B	306	MET	SD-CE	7.90	1.99	1.79
1	B	688	THR	CA-CB	-7.20	1.43	1.53
1	A	452	ILE	CA-CB	7.18	1.61	1.54
1	A	613	THR	CA-CB	-7.16	1.42	1.53
1	A	816	THR	CA-CB	6.99	1.64	1.53
1	B	452	ILE	CA-CB	-6.61	1.46	1.54
1	B	567	VAL	CA-CB	6.49	1.61	1.54
1	A	578	VAL	CA-CB	6.29	1.61	1.54
1	A	440	THR	CA-CB	-6.20	1.43	1.53
1	A	346	HIS	CA-C	-6.16	1.45	1.52
1	A	533	PRO	C-O	-6.15	1.19	1.24
1	B	445	THR	CA-CB	-6.14	1.43	1.53
1	B	796	VAL	CA-CB	5.94	1.62	1.54
1	B	573	ILE	CA-CB	5.91	1.61	1.54
1	B	519	ALA	CA-CB	-5.90	1.44	1.53
1	A	439	MET	SD-CE	5.75	1.94	1.79
1	B	109	ILE	CA-CB	5.74	1.61	1.54
1	D	19	ILE	CA-CB	5.71	1.61	1.54
1	A	796	VAL	CA-CB	-5.70	1.47	1.54
1	A	822	ALA	CA-CB	-5.63	1.44	1.53
1	A	330	ILE	CA-CB	5.61	1.61	1.54
1	B	535	ALA	CA-CB	-5.57	1.45	1.53
1	A	320	ILE	CA-CB	-5.53	1.47	1.54
1	A	19	ILE	CA-CB	5.35	1.61	1.54
1	B	299	THR	CA-CB	-5.34	1.45	1.53
1	B	678	ALA	CA-CB	-5.24	1.45	1.53
1	A	617	ALA	CA-CB	-5.21	1.45	1.53
1	B	689	VAL	CA-CB	5.16	1.61	1.54
1	A	429	VAL	CA-CB	-5.15	1.47	1.54
1	A	831	THR	CA-CB	-5.14	1.44	1.53
1	B	154	ILE	CA-CB	-5.14	1.48	1.54
1	A	267	MET	SD-CE	5.14	1.92	1.79
1	C	4	ILE	CA-CB	5.14	1.61	1.54
1	B	841	VAL	CA-CB	5.13	1.61	1.54
1	C	19	ILE	CA-CB	5.12	1.60	1.54
1	C	795	VAL	CA-CB	-5.06	1.48	1.54
1	B	117	ILE	CA-CB	5.03	1.59	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	323	ALA	CA-CB	-5.01	1.45	1.53

All (76) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	828	VAL	CB-CA-C	-8.20	101.07	112.14
2	H	11	DA	N9-C1'-C2'	-8.05	101.42	113.50
1	B	495	SER	CA-C-N	7.13	126.97	119.05
1	B	495	SER	C-N-CA	7.13	126.97	119.05
2	E	11	DA	N9-C1'-C2'	-7.09	102.86	113.50
1	C	313	MET	CA-C-N	7.06	126.31	118.97
1	C	313	MET	C-N-CA	7.06	126.31	118.97
1	B	549	MET	CB-CG-SD	-6.96	91.82	112.70
2	N	11	DA	N9-C1'-C2'	-6.90	103.15	113.50
1	B	507	SER	CA-C-N	6.76	128.29	119.84
1	B	507	SER	C-N-CA	6.76	128.29	119.84
2	H	12	DT	N1-C1'-C2'	-6.70	103.45	113.50
1	A	729	THR	CA-C-N	6.58	127.11	119.47
1	A	729	THR	C-N-CA	6.58	127.11	119.47
1	D	292	ARG	CA-C-N	6.53	126.88	119.83
1	D	292	ARG	C-N-CA	6.53	126.88	119.83
1	A	473	VAL	N-CA-CB	-6.41	104.78	111.64
2	K	11	DA	N9-C1'-C2'	-6.34	103.99	113.50
1	D	433	ASN	CA-C-N	6.33	126.02	119.56
1	D	433	ASN	C-N-CA	6.33	126.02	119.56
2	N	12	DT	N1-C1'-C2'	-6.30	104.05	113.50
1	A	828	VAL	CB-CA-C	-6.23	103.73	112.14
1	A	816	THR	CB-CA-C	-6.08	99.39	111.91
1	C	729	THR	CA-C-N	6.05	126.48	119.47
1	C	729	THR	C-N-CA	6.05	126.48	119.47
2	K	12	DT	N1-C1'-C2'	-6.04	104.44	113.50
1	A	473	VAL	CB-CA-C	6.02	115.23	109.33
1	A	384	VAL	CB-CA-C	-5.98	104.20	112.04
1	A	419	ASN	CB-CA-C	-5.96	98.56	110.42
2	H	13	DC	N1-C1'-C2'	-5.95	104.57	113.50
1	B	292	ARG	CA-C-N	5.94	126.24	119.83
1	B	292	ARG	C-N-CA	5.94	126.24	119.83
1	B	783	VAL	CB-CA-C	-5.93	104.38	111.97
1	A	313	MET	CA-C-N	5.88	125.08	118.97
1	A	313	MET	C-N-CA	5.88	125.08	118.97
1	D	795	VAL	CB-CA-C	-5.84	104.40	111.88
1	B	462	ILE	CB-CA-C	-5.83	104.42	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	507	SER	CA-C-N	5.82	127.11	119.84
1	D	507	SER	C-N-CA	5.82	127.11	119.84
1	A	507	SER	CA-C-N	5.79	127.08	119.84
1	A	507	SER	C-N-CA	5.79	127.08	119.84
2	E	12	DT	N1-C1'-C2'	-5.76	104.86	113.50
1	B	313	MET	CA-C-N	5.74	127.02	119.84
1	B	313	MET	C-N-CA	5.74	127.02	119.84
1	A	433	ASN	CA-C-N	5.68	125.36	119.56
1	A	433	ASN	C-N-CA	5.68	125.36	119.56
1	A	685	VAL	CB-CA-C	-5.65	104.67	112.24
1	C	433	ASN	CA-C-N	5.60	125.27	119.56
1	C	433	ASN	C-N-CA	5.60	125.27	119.56
1	D	313	MET	CA-C-N	5.57	124.76	118.97
1	D	313	MET	C-N-CA	5.57	124.76	118.97
1	C	507	SER	CA-C-N	5.51	126.73	119.84
1	C	507	SER	C-N-CA	5.51	126.73	119.84
1	D	85	ILE	CB-CA-C	-5.47	104.97	111.97
1	B	419	ASN	CB-CA-C	-5.45	101.15	112.44
1	B	794	THR	CB-CA-C	-5.35	102.48	110.88
1	B	475	PHE	CA-C-N	-5.33	113.42	119.28
1	B	475	PHE	C-N-CA	-5.33	113.42	119.28
1	B	565	GLU	CA-C-N	-5.31	113.57	122.92
1	B	565	GLU	C-N-CA	-5.31	113.57	122.92
1	A	779	ALA	CA-C-N	-5.29	113.28	119.32
1	A	779	ALA	C-N-CA	-5.29	113.28	119.32
2	N	13	DC	N1-C1'-C2'	-5.29	105.57	113.50
1	A	166	VAL	CB-CA-C	-5.27	107.23	111.71
1	D	875	ILE	CB-CA-C	-5.24	105.17	112.04
1	A	475	PHE	CA-C-N	-5.11	113.38	119.05
1	A	475	PHE	C-N-CA	-5.11	113.38	119.05
1	B	669	GLN	CA-C-N	5.10	126.22	119.84
1	B	669	GLN	C-N-CA	5.10	126.22	119.84
1	A	796	VAL	CB-CA-C	-5.05	105.40	112.02
1	D	729	THR	CA-C-N	5.04	125.32	119.47
1	D	729	THR	C-N-CA	5.04	125.32	119.47
1	A	829	ARG	NE-CZ-NH1	-5.04	116.46	121.50
1	B	729	THR	CA-C-N	5.03	125.31	119.47
1	B	729	THR	C-N-CA	5.03	125.31	119.47
2	E	13	DC	N1-C1'-C2'	-5.03	105.96	113.50

There are no chirality outliers.

All (30) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	E	11	DA	Sidechain
2	E	12	DT	Sidechain
2	E	13	DC	Sidechain
2	E	14	DG	Sidechain
2	E	15	DC	Sidechain
2	E	16	DC	Sidechain
4	G	1	DG	Sidechain
2	H	10	DC	Sidechain
2	H	11	DA	Sidechain
2	H	12	DT	Sidechain
2	H	13	DC	Sidechain
2	H	14	DG	Sidechain
2	H	15	DC	Sidechain
2	H	16	DC	Sidechain
2	H	9	DA	Sidechain
4	J	7	DT	Sidechain
2	K	10	DC	Sidechain
2	K	11	DA	Sidechain
2	K	12	DT	Sidechain
2	K	13	DC	Sidechain
2	K	14	DG	Sidechain
2	K	15	DC	Sidechain
2	K	16	DC	Sidechain
2	N	11	DA	Sidechain
2	N	12	DT	Sidechain
2	N	13	DC	Sidechain
2	N	14	DG	Sidechain
2	N	15	DC	Sidechain
2	N	16	DC	Sidechain
4	P	7	DT	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6746	0	6708	752	0
1	B	6746	0	6708	750	0
1	C	6746	0	6708	707	0
1	D	6746	0	6708	686	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	E	345	0	191	29	0
2	H	367	0	202	28	0
2	K	345	0	191	38	0
2	N	345	0	191	21	0
3	F	171	0	89	7	0
3	I	171	0	89	11	0
3	L	171	0	89	9	0
3	O	171	0	89	5	0
4	G	179	0	104	16	0
4	J	179	0	104	8	0
4	M	179	0	104	19	0
4	P	179	0	104	11	0
5	A	310	0	0	104	0
5	B	352	0	0	131	0
5	C	185	0	0	78	0
5	D	177	0	0	108	0
5	E	13	0	0	2	0
5	F	16	0	0	2	0
5	G	12	0	0	6	0
5	H	20	0	0	6	0
5	I	11	0	0	4	0
5	J	9	0	0	4	0
5	K	17	0	0	7	0
5	L	5	0	0	2	0
5	M	8	0	0	1	0
5	N	12	0	0	4	0
5	O	6	0	0	0	0
5	P	9	0	0	3	0
All	All	30948	0	28379	3042	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 52.

All (3042) 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)
1:A:668:THR:HG22	1:A:669:GLN:NE2	1.51	1.24
1:C:428:ALA:H	1:C:435:GLN:NE2	1.44	1.15
1:B:50:ARG:HG2	1:B:50:ARG:HH11	1.01	1.14
1:C:133:THR:HA	1:C:243:THR:HG22	1.28	1.10
1:A:120:LYS:HE3	1:A:752:LEU:HD21	1.31	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:806:SER:O	1:B:816:THR:HG22	1.51	1.09
1:D:402:LEU:HG	1:D:439:MET:HE1	1.32	1.09
1:C:839:CYS:HB3	5:C:2179:HOH:O	1.49	1.09
1:A:562:LEU:HD21	1:A:870:LEU:HD11	1.11	1.08
1:B:663:LYS:HG2	1:B:664:GLY:H	1.15	1.07
1:B:216:CYS:HA	1:B:219:MET:HE3	1.36	1.07
1:B:647:ARG:HH22	1:B:671:ASN:ND2	1.53	1.06
1:A:669:GLN:HG2	1:A:672:GLN:HE21	1.14	1.06
1:B:194:GLY:HA3	5:B:2099:HOH:O	1.55	1.06
1:B:330:ILE:HG22	5:B:2150:HOH:O	1.54	1.06
1:A:269:GLN:HE22	1:A:407:LYS:NZ	1.54	1.05
1:B:157:LEU:HB3	5:B:2089:HOH:O	1.55	1.04
1:B:215:ARG:HG3	1:B:219:MET:HE2	1.36	1.04
1:B:291:ARG:HB2	5:B:2136:HOH:O	1.56	1.04
1:C:536:PHE:HB3	1:C:882:PHE:HB3	1.36	1.04
1:C:333:LYS:HB3	1:C:516:PHE:CE2	1.93	1.04
1:A:861:MET:HE3	1:A:862:PRO:HD2	1.38	1.03
1:B:5:ASN:HB3	5:B:2024:HOH:O	1.59	1.03
1:A:562:LEU:HD21	1:A:870:LEU:CD1	1.89	1.02
1:A:669:GLN:HG2	1:A:672:GLN:NE2	1.74	1.02
1:C:347:CYS:SG	1:C:350:GLU:HG2	2.00	1.01
1:D:536:PHE:HB3	1:D:882:PHE:HB3	1.42	1.01
1:A:668:THR:HG22	1:A:669:GLN:HE22	1.04	1.01
1:B:573:ILE:C	1:B:573:ILE:HD12	1.85	1.01
1:D:351:ASP:HB2	5:D:2099:HOH:O	1.58	1.01
1:B:720:ARG:HG2	1:B:720:ARG:HH11	1.26	1.01
1:A:536:PHE:HB3	1:A:882:PHE:HB3	1.43	1.00
1:D:281:ILE:HG22	1:D:282:THR:HG23	1.42	1.00
1:A:594:VAL:HB	5:A:2236:HOH:O	1.60	0.99
1:B:80:LYS:HD2	1:B:224:THR:HG22	1.45	0.98
1:C:307:ARG:HH11	1:C:307:ARG:HG3	1.24	0.98
1:D:298:ARG:HH21	1:D:427:TYR:HB2	1.26	0.98
1:A:711:LYS:HB2	1:A:711:LYS:NZ	1.75	0.98
1:A:720:ARG:HG2	1:A:720:ARG:HH11	1.29	0.98
1:A:196:LEU:HA	5:A:2085:HOH:O	1.64	0.98
1:A:632:ARG:HB2	1:A:632:ARG:NH1	1.79	0.97
1:D:829:ARG:O	1:D:833:VAL:HG23	1.62	0.97
1:B:423:ARG:HE	2:H:12:DT:H4'	1.29	0.97
1:D:348:PRO:HG3	5:D:2092:HOH:O	1.62	0.97
1:D:663:LYS:HG2	1:D:664:GLY:H	1.27	0.97
1:D:681:ILE:O	1:D:685:VAL:HG22	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:457:TYR:CE1	1:C:521:VAL:HG11	1.98	0.97
1:C:806:SER:O	1:C:816:THR:HG23	1.65	0.97
1:A:668:THR:CG2	1:A:669:GLN:HE22	1.79	0.96
1:B:290:GLY:HA2	5:B:2134:HOH:O	1.64	0.96
1:A:92:VAL:HG12	1:A:99:ARG:HG3	1.44	0.96
1:A:99:ARG:HG2	1:A:99:ARG:HH11	1.27	0.95
1:D:275:PRO:HD2	5:D:2086:HOH:O	1.66	0.95
1:B:748:ASN:HD21	1:B:751:PHE:H	1.09	0.95
1:A:113:ALA:O	1:A:117:ILE:HG13	1.64	0.95
1:C:45:GLU:HG2	5:C:2038:HOH:O	1.65	0.95
1:A:93:LYS:HA	1:A:99:ARG:NH2	1.80	0.95
1:D:154:ILE:HG23	1:D:190:MET:HE2	1.48	0.95
1:A:704:LYS:HE2	4:G:5:DA:OP1	1.66	0.95
1:A:342:THR:HG22	1:A:348:PRO:HG2	1.47	0.95
1:C:532:LEU:HD23	1:C:534:LEU:HD23	1.49	0.95
1:A:711:LYS:HB2	1:A:711:LYS:HZ3	1.25	0.94
1:C:422:TRP:HB3	5:C:2101:HOH:O	1.66	0.94
1:A:202:SER:HB2	5:A:2088:HOH:O	1.64	0.94
1:B:58:GLN:HG3	1:B:67:ASN:HD22	1.30	0.93
1:A:428:ALA:H	1:A:435:GLN:HE21	1.15	0.93
1:B:532:LEU:HD12	1:B:533:PRO:HD2	1.50	0.93
1:A:746:ARG:NH1	1:A:746:ARG:HB3	1.83	0.92
1:D:272:VAL:HA	5:D:2115:HOH:O	1.67	0.92
1:A:398:LEU:HD23	1:A:398:LEU:C	1.95	0.92
1:B:158:GLU:HG2	1:B:195:LEU:HD22	1.50	0.92
1:C:423:ARG:NH2	1:C:784:HIS:ND1	2.18	0.92
1:A:428:ALA:H	1:A:435:GLN:NE2	1.68	0.92
1:B:623:TYR:HA	1:B:666:MET:HE2	1.52	0.92
1:C:80:LYS:HD3	1:C:224:THR:HG22	1.52	0.92
1:D:43:SER:HA	1:D:46:MET:HE3	1.49	0.91
1:B:59:LEU:HA	1:B:64:VAL:HG22	1.52	0.91
1:C:428:ALA:H	1:C:435:GLN:HE22	1.10	0.91
1:B:744:GLN:HA	1:B:756:ARG:HE	1.31	0.91
1:B:423:ARG:NE	2:H:12:DT:H4'	1.84	0.91
1:B:854:HIS:CD2	1:B:856:SER:H	1.88	0.91
1:A:751:PHE:HB3	1:A:752:LEU:HD12	1.52	0.91
1:C:485:ASN:HD22	1:C:488:ASN:HD22	1.09	0.91
1:D:560:ASN:O	1:D:881:ALA:HB2	1.70	0.91
1:A:562:LEU:CD2	1:A:870:LEU:HD11	2.00	0.91
1:D:806:SER:O	1:D:816:THR:HG23	1.72	0.90
1:C:183:MET:HA	1:C:183:MET:HE2	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:2:DG:H2''	2:K:3:DG:H8	1.35	0.90
1:D:153:ARG:HH22	1:D:201:TRP:HE1	1.20	0.90
1:B:236:VAL:HG21	1:B:239:GLN:HE21	1.34	0.90
1:C:340:VAL:O	1:C:343:LYS:HG2	1.69	0.90
1:A:641:SER:HA	2:E:10:DC:H5'	1.53	0.89
1:B:647:ARG:HH22	1:B:671:ASN:HD22	1.01	0.89
1:D:155:ARG:HA	1:D:163:LYS:HD3	1.54	0.89
1:B:133:THR:HA	1:B:243:THR:HG22	1.54	0.89
1:D:633:SER:HA	1:D:649:GLN:HE22	1.37	0.89
1:D:794:THR:OG1	1:D:831:THR:HG21	1.73	0.89
2:E:2:DG:H2''	2:E:3:DG:N7	1.87	0.89
1:A:109:ILE:HD11	1:A:149:ALA:HB2	1.54	0.89
1:A:155:ARG:HB3	1:A:155:ARG:HH11	1.35	0.89
1:B:748:ASN:ND2	1:B:751:PHE:H	1.71	0.89
1:A:208:ASP:O	1:A:212:VAL:HG23	1.71	0.89
1:C:141:ILE:O	1:C:145:ILE:HG12	1.71	0.89
1:A:269:GLN:HE22	1:A:407:LYS:HZ3	1.15	0.89
1:C:154:ILE:HG23	1:C:190:MET:HE1	1.55	0.89
1:C:16:LEU:HD23	1:C:16:LEU:H	1.38	0.88
1:A:169:GLN:O	1:A:173:ARG:HG2	1.72	0.88
1:B:244:ILE:HB	5:B:2084:HOH:O	1.74	0.88
1:C:14:ILE:HG23	1:C:288:ALA:HB1	1.54	0.88
1:B:438:ASP:OD2	1:B:508:PRO:HD2	1.73	0.88
1:A:140:ALA:HA	5:A:2071:HOH:O	1.72	0.88
1:C:374:LEU:H	1:C:374:LEU:HD12	1.39	0.87
1:C:551:ARG:CG	1:C:551:ARG:HH11	1.88	0.87
1:C:560:ASN:O	1:C:881:ALA:HB2	1.72	0.87
1:D:751:PHE:HB3	1:D:752:LEU:HD12	1.54	0.87
1:A:155:ARG:HB3	1:A:155:ARG:NH1	1.88	0.87
1:B:560:ASN:O	1:B:881:ALA:HB2	1.73	0.87
1:C:720:ARG:HG2	1:C:720:ARG:HH11	1.40	0.87
1:B:18:ALA:HA	5:B:2040:HOH:O	1.74	0.87
1:C:281:ILE:HG22	1:C:282:THR:HG23	1.54	0.87
2:K:3:DG:H2''	2:K:4:DA:C8	2.08	0.87
1:C:549:MET:HB3	1:C:836:TYR:HE1	1.40	0.86
1:A:170:LEU:HD12	1:A:183:MET:HE3	1.57	0.86
1:A:629:VAL:HG11	1:A:677:MET:HE3	1.55	0.86
1:B:401:MET:HA	1:B:401:MET:HE3	1.58	0.86
1:B:607:GLU:HG2	5:B:2274:HOH:O	1.73	0.86
1:D:352:ILE:HA	5:D:2098:HOH:O	1.76	0.86
1:D:231:ARG:HD2	1:D:240:ASP:OD1	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:315:GLU:HA	1:D:315:GLU:OE2	1.72	0.86
1:A:100:PRO:HG2	1:A:103:PHE:HB2	1.56	0.86
1:C:870:LEU:HD23	1:C:872:LEU:HD23	1.58	0.86
1:C:481:PHE:HB2	5:C:2113:HOH:O	1.74	0.85
1:B:347:CYS:HB3	1:B:350:GLU:HG3	1.56	0.85
1:C:169:GLN:HB3	5:C:2062:HOH:O	1.74	0.85
4:G:5:DA:H2''	4:G:6:DT:H72	1.57	0.85
1:B:790:HIS:CD2	1:B:831:THR:CG2	2.59	0.85
1:A:59:LEU:HA	1:A:64:VAL:HG22	1.59	0.85
1:A:730:PRO:HD3	1:A:786:GLN:HE22	1.41	0.85
1:C:164:LYS:HE2	1:C:164:LYS:N	1.90	0.85
1:A:84:ARG:HG3	1:A:223:SER:HB3	1.55	0.85
1:B:146:GLU:OE2	1:B:201:TRP:HB3	1.77	0.85
1:A:195:LEU:HD11	5:A:2076:HOH:O	1.76	0.84
1:B:59:LEU:HD23	1:B:64:VAL:HG21	1.59	0.84
1:B:715:THR:HB	5:B:2302:HOH:O	1.75	0.84
2:K:3:DG:H3'	5:K:2007:HOH:O	1.76	0.84
1:B:152:GLY:HA2	5:B:2088:HOH:O	1.75	0.84
1:B:208:ASP:O	1:B:212:VAL:HG23	1.77	0.84
1:B:43:SER:OG	1:B:269:GLN:HG3	1.76	0.84
1:C:826:LYS:O	1:C:830:GLU:HG3	1.77	0.84
1:C:849:PHE:HD2	1:C:853:LEU:HD21	1.41	0.84
1:A:854:HIS:CD2	1:A:856:SER:H	1.96	0.84
1:B:249:GLU:HB2	5:B:2120:HOH:O	1.76	0.84
1:D:42:GLU:HG2	1:D:46:MET:HE2	1.58	0.84
1:A:126:LEU:HB3	5:A:2070:HOH:O	1.76	0.84
1:B:579:ASN:HA	1:B:582:LEU:HD12	1.57	0.84
1:B:790:HIS:CD2	1:B:831:THR:HG23	2.13	0.84
1:D:146:GLU:OE2	1:D:201:TRP:HB3	1.78	0.84
1:D:632:ARG:HG2	5:N:2010:HOH:O	1.77	0.84
1:A:560:ASN:O	1:A:881:ALA:HB2	1.78	0.84
1:C:428:ALA:N	1:C:435:GLN:NE2	2.26	0.84
1:D:84:ARG:HD3	1:D:84:ARG:C	2.03	0.84
1:D:438:ASP:OD2	1:D:508:PRO:HG2	1.78	0.84
1:B:332:LYS:HG2	5:B:2152:HOH:O	1.77	0.83
1:D:729:THR:HG23	1:D:733:PHE:O	1.78	0.83
1:B:123:LEU:HD11	5:B:2082:HOH:O	1.78	0.83
1:A:92:VAL:CG1	1:A:99:ARG:HG3	2.08	0.83
1:A:143:ARG:HB3	5:A:2071:HOH:O	1.77	0.83
1:B:120:LYS:HD2	1:B:752:LEU:HD21	1.58	0.83
1:B:113:ALA:O	1:B:117:ILE:HG13	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:LEU:HD21	1:A:287:TRP:CD2	2.14	0.83
1:D:153:ARG:NH2	1:D:201:TRP:HE1	1.76	0.83
1:D:582:LEU:HB3	1:D:621:LEU:HD21	1.61	0.83
1:A:724:ALA:HB2	1:A:738:GLU:HG3	1.61	0.83
1:B:281:ILE:HG22	1:B:282:THR:HG23	1.58	0.83
1:B:50:ARG:HG2	1:B:50:ARG:NH1	1.74	0.83
1:C:485:ASN:ND2	1:C:488:ASN:HD22	1.76	0.83
1:D:347:CYS:SG	1:D:350:GLU:HG2	2.19	0.83
1:D:11:PHE:CZ	1:D:44:TYR:HB3	2.13	0.82
1:A:347:CYS:HB3	1:A:350:GLU:HG3	1.60	0.82
1:A:560:ASN:HD21	1:A:567:VAL:HG13	1.43	0.82
1:A:641:SER:CA	2:E:10:DC:H5'	2.09	0.82
1:A:398:LEU:HD23	1:A:398:LEU:O	1.80	0.82
4:M:1:DG:H1'	4:M:2:DT:H71	1.60	0.82
1:A:632:ARG:HD3	5:A:2249:HOH:O	1.78	0.82
1:A:744:GLN:O	1:A:745:THR:HG23	1.79	0.82
1:B:714:LYS:HZ3	1:B:714:LYS:HA	1.44	0.82
1:C:423:ARG:HE	1:C:781:ASN:ND2	1.78	0.82
1:D:585:ASP:OD2	1:D:613:THR:HB	1.79	0.82
1:B:169:GLN:O	1:B:173:ARG:HG2	1.80	0.82
1:D:587:ILE:HG13	5:D:2136:HOH:O	1.80	0.82
3:L:1:G:H5''	5:L:2001:HOH:O	1.78	0.82
1:A:705:LEU:HD22	1:A:857:GLN:HB2	1.62	0.82
1:B:329:LYS:HD3	1:B:447:ALA:HA	1.60	0.82
1:B:769:ILE:HG12	5:B:2306:HOH:O	1.80	0.82
1:D:292:ARG:O	1:D:292:ARG:HG3	1.77	0.82
1:A:425:ARG:HD3	1:A:811:HIS:CD2	2.14	0.82
1:A:100:PRO:HB3	5:A:2064:HOH:O	1.78	0.81
1:D:486:HIS:O	1:D:490:MET:HG2	1.80	0.81
1:D:573:ILE:HA	1:D:576:LYS:HD3	1.62	0.81
1:D:711:LYS:HG2	1:D:718:ILE:HA	1.62	0.81
1:A:217:ILE:O	1:A:221:ILE:HG13	1.80	0.81
1:A:89:PHE:HA	1:A:103:PHE:HE1	1.45	0.81
1:C:769:ILE:HG21	5:C:2154:HOH:O	1.78	0.81
1:A:226:MET:HG3	1:A:250:TYR:HD1	1.45	0.81
1:D:116:TYR:OH	1:D:752:LEU:HD22	1.79	0.81
1:D:155:ARG:HB2	1:D:163:LYS:HE2	1.63	0.81
1:D:663:LYS:HE3	1:D:666:MET:HE1	1.62	0.81
1:A:18:ALA:O	1:A:19:ILE:HG12	1.80	0.81
1:B:751:PHE:HB3	1:B:752:LEU:HD12	1.61	0.81
1:D:339:ASN:O	1:D:343:LYS:HD2	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:379:ARG:HA	5:A:2149:HOH:O	1.80	0.81
1:B:236:VAL:HG21	1:B:239:GLN:NE2	1.94	0.81
1:B:16:LEU:HD23	1:B:16:LEU:H	1.46	0.81
1:B:206:LYS:O	1:B:210:ILE:HG12	1.81	0.81
1:B:647:ARG:NH2	1:B:671:ASN:ND2	2.29	0.80
1:C:530:CYS:SG	1:C:818:PRO:HG2	2.20	0.80
1:C:751:PHE:HB3	1:C:752:LEU:HD12	1.62	0.80
1:D:206:LYS:O	1:D:210:ILE:HG12	1.81	0.80
1:D:744:GLN:HA	1:D:756:ARG:HH11	1.45	0.80
1:A:30:GLU:HG2	1:A:34:ARG:CZ	2.09	0.80
1:A:120:LYS:HE3	1:A:752:LEU:CD2	2.10	0.80
1:D:332:LYS:HE2	5:D:2011:HOH:O	1.80	0.80
1:D:648:GLN:O	1:D:652:GLU:HG2	1.82	0.80
1:C:11:PHE:HB2	5:C:2018:HOH:O	1.80	0.80
1:C:711:LYS:HB2	1:C:711:LYS:NZ	1.96	0.80
1:D:91:GLU:O	1:D:95:LYS:HD2	1.82	0.80
1:A:315:GLU:OE2	1:A:318:LYS:HD3	1.82	0.80
1:B:59:LEU:HD23	1:B:64:VAL:CG2	2.12	0.80
1:A:421:ASP:OD2	1:A:427:TYR:HE1	1.65	0.80
1:B:730:PRO:CD	1:B:786:GLN:HE22	1.95	0.80
1:C:229:LEU:HD12	1:C:243:THR:O	1.82	0.80
1:C:551:ARG:HH11	1:C:551:ARG:HG3	1.45	0.80
1:B:7:ALA:HB3	5:B:2024:HOH:O	1.81	0.79
2:H:6:DT:H1'	5:H:2008:HOH:O	1.81	0.79
1:A:134:VAL:HB	1:A:244:ILE:HD11	1.64	0.79
2:E:8:DG:H5'	5:E:2005:HOH:O	1.82	0.79
1:A:746:ARG:HB3	1:A:746:ARG:HH11	1.47	0.79
1:C:452:ILE:HD11	1:C:457:TYR:HA	1.64	0.79
1:C:50:ARG:HG2	1:C:50:ARG:HH11	1.45	0.79
1:B:711:LYS:HA	1:B:719:LEU:HD13	1.64	0.79
1:C:181:ALA:O	1:C:185:VAL:HG22	1.82	0.79
1:C:428:ALA:N	1:C:435:GLN:HE22	1.79	0.79
1:D:450:LYS:HD3	5:D:2119:HOH:O	1.82	0.79
1:A:155:ARG:O	1:A:155:ARG:HD2	1.83	0.79
1:A:804:ILE:HG23	1:A:816:THR:HG21	1.63	0.79
1:C:468:ALA:HB2	1:C:511:PHE:CE1	2.18	0.79
1:D:570:ILE:O	1:D:574:VAL:HG23	1.82	0.79
1:A:608:LYS:HG2	5:A:2240:HOH:O	1.81	0.79
1:C:147:ASP:HB3	1:C:750:MET:CE	2.13	0.78
1:A:495:SER:HB3	1:A:498:GLU:HG3	1.65	0.78
1:B:714:LYS:HA	1:B:714:LYS:NZ	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:829:ARG:HG3	1:B:829:ARG:HH11	1.47	0.78
1:C:19:ILE:HG21	5:C:2027:HOH:O	1.83	0.78
1:C:455:GLU:HA	5:C:2110:HOH:O	1.81	0.78
1:B:790:HIS:HD2	1:B:831:THR:HG23	1.48	0.78
1:C:663:LYS:HG2	1:C:664:GLY:H	1.47	0.78
1:A:648:GLN:NE2	1:A:652:GLU:OE1	2.16	0.78
1:B:489:ILE:HG21	1:B:518:TYR:CD1	2.19	0.78
1:A:51:PHE:CZ	1:A:261:LEU:HD23	2.19	0.78
1:B:84:ARG:HD2	1:B:219:MET:HB3	1.64	0.78
1:D:109:ILE:H	1:D:109:ILE:HD12	1.49	0.78
1:C:84:ARG:NE	1:C:222:GLU:OE1	2.16	0.77
1:B:663:LYS:HG2	1:B:664:GLY:N	1.97	0.77
1:A:423:ARG:HE	1:A:781:ASN:HD22	1.31	0.77
1:C:236:VAL:HB	1:C:239:GLN:HB2	1.66	0.77
1:A:281:ILE:HG22	1:A:282:THR:HG23	1.66	0.77
1:A:372:GLU:HG3	5:A:2014:HOH:O	1.83	0.77
1:D:497:LEU:HD12	5:D:2125:HOH:O	1.84	0.77
2:K:2:DG:H2''	2:K:3:DG:C8	2.19	0.77
1:B:537:ASP:O	1:B:882:PHE:HB2	1.84	0.77
1:C:871:ASN:HA	5:C:2183:HOH:O	1.82	0.77
1:D:82:ILE:HD13	1:D:112:GLU:OE2	1.84	0.77
1:D:355:ILE:HA	5:D:2102:HOH:O	1.82	0.77
1:B:257:ARG:HG2	5:B:2125:HOH:O	1.85	0.77
4:G:5:DA:C2'	4:G:6:DT:H72	2.14	0.77
1:B:81:MET:HE1	1:B:219:MET:HB2	1.66	0.77
1:D:572:GLY:O	1:D:576:LYS:HG3	1.85	0.77
1:D:103:PHE:HB2	5:D:2029:HOH:O	1.83	0.77
2:N:5:DA:H1'	2:N:6:DT:H5'	1.67	0.77
1:A:88:TRP:CH2	1:A:100:PRO:HG3	2.20	0.77
1:A:14:ILE:HG23	1:A:288:ALA:HB1	1.67	0.76
1:B:96:ARG:HG3	5:B:2031:HOH:O	1.85	0.76
1:B:546:PHE:HD1	1:B:549:MET:HE3	1.48	0.76
1:C:210:ILE:O	1:C:214:VAL:HG23	1.85	0.76
4:M:4:DG:H4'	4:M:5:DA:OP1	1.84	0.76
1:D:744:GLN:HG2	1:D:756:ARG:HD3	1.67	0.76
1:A:122:THR:HG22	1:A:126:LEU:HD12	1.66	0.76
1:A:88:TRP:HH2	1:A:100:PRO:HG3	1.50	0.76
1:B:150:ARG:HD3	1:B:151:PHE:CE2	2.20	0.76
1:B:151:PHE:CD1	1:B:183:MET:HB3	2.20	0.76
1:C:147:ASP:HB3	1:C:750:MET:HE1	1.67	0.76
1:B:137:VAL:HG12	1:B:141:ILE:HD11	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:16:LEU:HD13	1:D:38:ALA:HB2	1.68	0.76
1:A:632:ARG:HB2	1:A:632:ARG:CZ	2.15	0.76
1:B:50:ARG:HH11	1:B:50:ARG:CG	1.89	0.76
1:A:197:GLY:HA2	5:A:2087:HOH:O	1.84	0.76
1:B:159:ALA:HB1	1:B:163:LYS:N	1.99	0.76
1:D:16:LEU:HA	1:D:37:LEU:HD12	1.67	0.76
1:D:853:LEU:HD22	1:D:857:GLN:HG3	1.66	0.76
1:A:217:ILE:HG22	1:A:221:ILE:HD11	1.68	0.76
1:A:281:ILE:HD11	1:A:308:TYR:HB3	1.67	0.76
1:B:853:LEU:HD22	1:B:857:GLN:HG3	1.66	0.76
1:D:34:ARG:HB3	5:D:2022:HOH:O	1.84	0.76
1:A:219:MET:SD	5:A:2060:HOH:O	2.43	0.76
1:B:692:ALA:O	1:B:696:MET:HG3	1.85	0.76
1:B:407:LYS:NZ	5:B:2175:HOH:O	2.18	0.76
1:D:829:ARG:HH11	1:D:829:ARG:HG3	1.50	0.76
1:B:748:ASN:HD21	1:B:751:PHE:N	1.83	0.75
1:C:231:ARG:HG2	1:C:234:ALA:HB2	1.65	0.75
1:C:794:THR:OG1	1:C:831:THR:HG21	1.86	0.75
1:A:143:ARG:HA	5:A:2073:HOH:O	1.86	0.75
1:A:724:ALA:CB	1:A:738:GLU:HG3	2.16	0.75
1:A:150:ARG:NH1	5:A:2075:HOH:O	2.20	0.75
1:A:720:ARG:HG2	1:A:720:ARG:NH1	2.02	0.75
1:C:738:GLU:OE2	5:C:2158:HOH:O	2.03	0.75
5:C:2147:HOH:O	4:M:1:DG:H4'	1.85	0.75
1:D:314:PRO:HA	5:D:2084:HOH:O	1.86	0.75
1:B:79:PRO:HB3	5:B:2071:HOH:O	1.85	0.75
1:B:309:GLU:HG2	5:B:2142:HOH:O	1.86	0.75
1:C:437:ASN:H	1:C:437:ASN:HD22	1.34	0.75
1:B:50:ARG:NH2	1:B:267:MET:HG2	2.00	0.75
1:D:307:ARG:HD2	5:D:2081:HOH:O	1.85	0.75
1:A:84:ARG:HE	1:A:222:GLU:HB2	1.52	0.75
1:B:236:VAL:HB	1:B:239:GLN:HB2	1.67	0.75
1:D:298:ARG:NH2	1:D:427:TYR:HB2	2.01	0.75
2:E:4:DA:H2''	2:E:5:DA:C8	2.21	0.75
1:A:60:LYS:O	1:A:60:LYS:HG2	1.84	0.75
1:A:325:ASN:HB3	5:A:2134:HOH:O	1.86	0.75
1:A:882:PHE:N	1:A:882:PHE:CD1	2.52	0.75
1:D:126:LEU:HD21	1:D:244:ILE:HG22	1.69	0.75
1:A:452:ILE:HD12	1:A:818:PRO:HB2	1.68	0.75
1:A:669:GLN:N	1:A:669:GLN:HE21	1.85	0.75
1:D:479:ILE:O	1:D:483:GLU:HG3	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:592:ASN:OD1	1:A:611:LEU:HA	1.87	0.74
1:B:473:VAL:HG11	1:B:477:GLU:HB3	1.69	0.74
1:B:679:LYS:HG2	5:B:2299:HOH:O	1.86	0.74
1:C:78:LEU:O	1:C:82:ILE:HG13	1.87	0.74
1:A:631:LYS:O	1:A:635:MET:HG2	1.87	0.74
1:C:422:TRP:HE3	5:C:2101:HOH:O	1.69	0.74
1:B:106:LEU:HD21	1:B:212:VAL:CG1	2.17	0.74
1:C:549:MET:HB3	1:C:836:TYR:CE1	2.23	0.74
1:A:269:GLN:HA	5:A:2113:HOH:O	1.85	0.74
1:A:347:CYS:SG	1:A:350:GLU:HG2	2.28	0.74
1:A:591:ASP:OD2	1:A:591:ASP:N	2.20	0.74
1:B:712:ASP:HB3	5:B:2302:HOH:O	1.87	0.74
1:D:355:ILE:HG13	5:D:2104:HOH:O	1.87	0.74
1:B:546:PHE:CD1	1:B:549:MET:HE3	2.21	0.74
1:C:59:LEU:HA	1:C:64:VAL:HG22	1.69	0.74
1:A:109:ILE:CD1	1:A:149:ALA:HB2	2.17	0.74
1:B:15:GLU:OE2	1:B:19:ILE:HG12	1.87	0.74
1:C:171:ASN:HB3	3:L:2:C:H4'	1.69	0.74
4:G:3:DC:H2''	4:G:4:DG:OP2	1.85	0.74
1:C:6:ILE:HD11	1:C:259:GLY:C	2.13	0.74
1:C:557:ARG:HD2	5:C:2129:HOH:O	1.87	0.74
1:B:234:ALA:HB1	5:B:2112:HOH:O	1.85	0.74
1:C:423:ARG:HE	1:C:781:ASN:HD22	1.35	0.74
4:P:1:DG:N2	5:P:2001:HOH:O	2.20	0.74
1:A:206:LYS:HD3	1:A:206:LYS:H	1.53	0.74
1:A:269:GLN:NE2	1:A:407:LYS:HZ3	1.86	0.74
1:A:292:ARG:HG2	1:A:292:ARG:HH11	1.53	0.74
1:B:119:ILE:HG13	5:B:2069:HOH:O	1.88	0.74
1:A:665:LEU:HG	5:A:2262:HOH:O	1.86	0.74
1:B:551:ARG:HG2	5:B:2240:HOH:O	1.87	0.74
1:D:11:PHE:CE1	1:D:44:TYR:HB3	2.23	0.74
1:A:663:LYS:CG	1:A:664:GLY:H	2.01	0.73
1:B:15:GLU:HA	5:B:2034:HOH:O	1.88	0.73
1:C:218:GLU:HG2	5:C:2070:HOH:O	1.88	0.73
1:D:810:ILE:HB	1:D:813:SER:HB3	1.69	0.73
1:A:206:LYS:O	1:A:210:ILE:HG12	1.88	0.73
1:B:744:GLN:CA	1:B:756:ARG:HE	2.01	0.73
1:C:88:TRP:O	1:C:92:VAL:HG23	1.89	0.73
1:C:303:LYS:CE	1:C:740:LYS:HZ1	2.01	0.73
1:C:711:LYS:CG	1:C:718:ILE:HA	2.17	0.73
1:A:269:GLN:NE2	1:A:407:LYS:NZ	2.33	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:164:LYS:HA	1:D:164:LYS:HE2	1.69	0.73
1:D:272:VAL:HB	5:D:2021:HOH:O	1.87	0.73
1:A:84:ARG:HE	1:A:222:GLU:CB	2.02	0.73
1:B:726:HIS:HB2	1:B:736:TRP:CD1	2.23	0.73
1:B:796:VAL:O	1:B:800:GLU:HG3	1.87	0.73
1:C:134:VAL:HG12	1:C:242:GLU:O	1.89	0.73
1:A:126:LEU:HD22	1:A:246:LEU:HB2	1.71	0.73
1:B:158:GLU:HA	1:B:195:LEU:HD22	1.68	0.73
1:B:882:PHE:O	1:B:883:ALA:HB3	1.87	0.73
1:C:199:GLU:HG2	1:C:201:TRP:HD1	1.54	0.73
2:K:18:DC:OP2	5:K:2015:HOH:O	2.07	0.73
1:A:698:TRP:HE3	1:A:699:LEU:HD23	1.53	0.73
1:B:422:TRP:HB3	5:B:2182:HOH:O	1.88	0.73
1:B:748:ASN:ND2	1:B:752:LEU:H	1.86	0.73
4:G:5:DA:H2''	4:G:6:DT:C7	2.17	0.73
1:B:423:ARG:NH2	1:B:784:HIS:ND1	2.35	0.73
1:D:573:ILE:HA	1:D:576:LYS:CD	2.19	0.73
1:C:109:ILE:HD11	1:C:149:ALA:HB2	1.68	0.73
1:C:374:LEU:H	1:C:374:LEU:CD1	2.02	0.73
1:B:480:LYS:O	1:B:484:GLU:HG3	1.89	0.73
1:B:681:ILE:O	1:B:685:VAL:HG13	1.89	0.73
1:D:176:HIS:HA	5:D:2052:HOH:O	1.89	0.73
1:A:51:PHE:HZ	1:A:261:LEU:HD23	1.53	0.73
1:C:882:PHE:H	1:C:882:PHE:HD1	1.34	0.73
1:B:553:GLU:CD	1:B:553:GLU:H	1.96	0.72
1:B:744:GLN:HA	1:B:756:ARG:NE	2.03	0.72
1:C:597:VAL:HB	5:C:2141:HOH:O	1.87	0.72
1:C:668:THR:HG22	1:C:669:GLN:OE1	1.88	0.72
1:D:882:PHE:HD1	1:D:882:PHE:H	1.36	0.72
1:B:829:ARG:HH11	1:B:829:ARG:CG	2.01	0.72
1:C:727:TRP:HA	1:C:848:GLN:HE21	1.53	0.72
1:B:73:LEU:HD11	1:B:254:ILE:HG13	1.70	0.72
1:B:250:TYR:HD2	5:B:2121:HOH:O	1.71	0.72
1:B:347:CYS:CB	1:B:350:GLU:HG3	2.18	0.72
1:B:596:THR:O	5:B:2264:HOH:O	2.07	0.72
1:C:711:LYS:HG2	1:C:718:ILE:HA	1.69	0.72
4:J:4:DG:H2''	4:J:5:DA:C8	2.23	0.72
4:J:5:DA:H3'	5:J:2003:HOH:O	1.89	0.72
1:A:349:VAL:O	1:A:349:VAL:HG12	1.87	0.72
1:B:354:ALA:HB2	5:B:2221:HOH:O	1.88	0.72
1:C:120:LYS:HZ2	1:C:752:LEU:HD11	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:437:ASN:ND2	1:C:440:THR:H	1.86	0.72
1:D:45:GLU:HG2	5:D:2024:HOH:O	1.88	0.72
1:D:109:ILE:HG21	5:D:2041:HOH:O	1.89	0.72
1:D:378:LYS:HD2	5:D:2007:HOH:O	1.88	0.72
1:A:112:GLU:CD	1:A:112:GLU:H	1.98	0.72
1:A:134:VAL:CB	1:A:244:ILE:HD11	2.19	0.72
1:B:546:PHE:HD1	1:B:549:MET:CE	2.02	0.72
1:B:730:PRO:HD3	5:B:2308:HOH:O	1.89	0.72
1:C:574:VAL:O	1:C:578:VAL:HG23	1.90	0.72
1:D:300:HIS:HB2	5:D:2078:HOH:O	1.90	0.72
1:B:14:ILE:HG23	1:B:288:ALA:HB1	1.72	0.72
1:D:80:LYS:HD3	1:D:224:THR:HG22	1.72	0.72
1:D:778:ILE:HG23	1:D:779:ALA:N	2.04	0.72
4:P:4:DG:H2"	4:P:5:DA:C8	2.25	0.72
1:A:58:GLN:OE1	1:A:67:ASN:HB2	1.89	0.72
1:B:882:PHE:O	1:B:883:ALA:CB	2.37	0.72
1:D:347:CYS:HB3	1:D:350:GLU:HG2	1.70	0.72
1:D:582:LEU:HD11	1:D:625:VAL:HG21	1.70	0.72
1:B:165:ASN:HA	5:B:2093:HOH:O	1.89	0.72
1:C:96:ARG:HG2	1:C:96:ARG:HH11	1.55	0.72
1:C:486:HIS:CE1	1:C:490:MET:HG3	2.25	0.72
1:C:630:THR:O	1:C:634:VAL:HG12	1.89	0.72
1:A:745:THR:H	1:A:756:ARG:HD3	1.55	0.71
1:B:720:ARG:HG2	1:B:720:ARG:NH1	2.01	0.71
1:C:333:LYS:HB3	1:C:516:PHE:CD2	2.24	0.71
1:A:84:ARG:HB3	5:A:2060:HOH:O	1.88	0.71
1:A:324:GLN:HE21	1:A:417:PRO:HA	1.55	0.71
1:A:568:GLN:OE1	1:B:565:GLU:HB2	1.89	0.71
1:A:882:PHE:O	1:A:883:ALA:HB3	1.90	0.71
1:C:485:ASN:HD22	1:C:488:ASN:ND2	1.86	0.71
1:C:711:LYS:HG2	1:C:717:GLU:C	2.15	0.71
1:C:737:GLN:HE22	1:C:778:ILE:HA	1.54	0.71
1:A:72:PRO:HB3	5:A:2110:HOH:O	1.90	0.71
1:A:247:ALA:HB1	5:A:2098:HOH:O	1.89	0.71
1:A:872:LEU:O	1:A:875:ILE:HG13	1.89	0.71
1:B:50:ARG:NH1	1:B:50:ARG:CG	2.51	0.71
1:B:826:LYS:O	1:B:830:GLU:HG3	1.89	0.71
1:D:347:CYS:CB	1:D:350:GLU:HG2	2.20	0.71
1:A:425:ARG:HD3	1:A:811:HIS:HD2	1.56	0.71
1:D:854:HIS:CD2	1:D:856:SER:H	2.08	0.71
1:A:57:ARG:O	1:A:60:LYS:HE2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:810:ILE:HG22	3:O:8:U:H5'	1.73	0.71
1:A:77:LEU:HD21	1:A:226:MET:SD	2.30	0.71
1:B:118:THR:HG23	1:B:141:ILE:HG21	1.71	0.71
1:B:546:PHE:CD1	1:B:549:MET:CE	2.73	0.71
1:C:59:LEU:HD23	1:C:64:VAL:HG22	1.73	0.71
1:A:342:THR:HG22	1:A:348:PRO:CG	2.18	0.71
1:B:623:TYR:CA	1:B:666:MET:HE2	2.19	0.71
1:C:316:VAL:CG1	1:C:420:MET:HE1	2.21	0.71
1:C:720:ARG:HG2	1:C:720:ARG:NH1	2.05	0.71
1:D:315:GLU:OE2	1:D:318:LYS:HD3	1.90	0.71
1:A:220:LEU:HG	5:A:2101:HOH:O	1.91	0.70
1:B:72:PRO:HG3	1:B:257:ARG:HG3	1.72	0.70
1:B:452:ILE:HG23	1:B:453:GLY:N	2.06	0.70
1:C:713:LYS:HZ3	1:C:713:LYS:HA	1.56	0.70
1:A:479:ILE:O	1:A:483:GLU:HG3	1.90	0.70
1:C:529:ASN:HB2	5:C:2124:HOH:O	1.92	0.70
1:D:14:ILE:HG23	1:D:288:ALA:HB1	1.72	0.70
1:D:421:ASP:OD2	1:D:423:ARG:NH1	2.25	0.70
2:E:12:DT:H2''	2:E:13:DC:H5'	1.74	0.70
1:A:746:ARG:HH11	1:A:746:ARG:CB	2.04	0.70
1:B:236:VAL:CB	1:B:239:GLN:HB2	2.20	0.70
1:C:109:ILE:CG1	1:C:149:ALA:HB2	2.21	0.70
1:C:437:ASN:H	1:C:437:ASN:ND2	1.88	0.70
1:C:869:ASN:HD22	1:C:869:ASN:N	1.88	0.70
1:D:182:PHE:O	1:D:185:VAL:HG22	1.91	0.70
1:D:553:GLU:HA	1:D:870:LEU:HD12	1.72	0.70
1:A:17:ALA:HA	5:A:2048:HOH:O	1.91	0.70
1:A:51:PHE:CE2	1:A:261:LEU:HB3	2.26	0.70
1:D:289:ASN:HB3	5:D:2074:HOH:O	1.90	0.70
2:K:12:DT:H2''	2:K:13:DC:H5'	1.73	0.70
1:A:191:LEU:HA	5:A:2085:HOH:O	1.92	0.70
1:A:398:LEU:C	1:A:398:LEU:CD2	2.64	0.70
1:B:21:PHE:CD1	1:B:21:PHE:C	2.69	0.70
1:C:208:ASP:OD2	1:C:208:ASP:N	2.24	0.70
1:C:355:ILE:HA	5:C:2094:HOH:O	1.91	0.70
1:D:441:LYS:HD3	5:D:2117:HOH:O	1.90	0.70
1:A:105:PHE:HB3	1:A:204:TRP:CZ2	2.26	0.70
1:A:308:TYR:HE2	1:A:734:PRO:HG2	1.56	0.70
1:B:355:ILE:HA	5:B:2165:HOH:O	1.91	0.70
1:D:56:GLU:C	1:D:56:GLU:CD	2.59	0.70
1:A:347:CYS:HB3	1:A:350:GLU:CG	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:871:ASN:HD21	1:A:873:ARG:HB2	1.56	0.70
1:A:51:PHE:HE2	1:A:261:LEU:HB3	1.56	0.70
1:C:201:TRP:O	1:C:204:TRP:HB2	1.92	0.70
1:A:308:TYR:HA	1:A:311:VAL:HG23	1.74	0.69
1:A:698:TRP:CE3	1:A:699:LEU:HD23	2.26	0.69
1:B:236:VAL:CG1	1:B:239:GLN:HB2	2.22	0.69
1:C:307:ARG:HG3	1:C:307:ARG:NH1	2.03	0.69
1:A:32:LEU:HD12	1:A:272:VAL:CG1	2.22	0.69
1:A:120:LYS:CE	1:A:752:LEU:HD21	2.15	0.69
1:A:236:VAL:HB	1:A:239:GLN:HB2	1.74	0.69
1:B:423:ARG:HE	2:H:12:DT:C4'	2.03	0.69
1:C:402:LEU:HG	1:C:439:MET:CE	2.23	0.69
1:D:113:ALA:O	1:D:117:ILE:HG13	1.92	0.69
1:A:619:GLN:O	1:A:622:ALA:HB3	1.92	0.69
1:D:710:VAL:HG13	1:D:720:ARG:HB3	1.74	0.69
3:I:6:G:H3'	5:I:2011:HOH:O	1.91	0.69
1:C:623:TYR:HA	1:C:666:MET:HE2	1.72	0.69
1:A:663:LYS:HG2	1:A:664:GLY:H	1.57	0.69
1:B:21:PHE:O	1:B:21:PHE:HD1	1.76	0.69
1:D:40:GLU:OE1	1:D:286:TYR:HB3	1.91	0.69
1:D:248:PRO:O	1:D:252:GLU:HG3	1.93	0.69
1:A:402:LEU:O	1:A:406:ASN:ND2	2.24	0.69
1:A:860:LYS:O	1:A:860:LYS:HD3	1.93	0.69
1:B:85:ILE:HG12	1:B:219:MET:SD	2.33	0.69
1:A:427:TYR:HA	1:A:435:GLN:HE22	1.57	0.69
1:C:706:LEU:HD21	1:C:849:PHE:HB2	1.74	0.69
1:C:860:LYS:O	1:C:860:LYS:HD2	1.93	0.69
4:G:1:DG:H2''	4:G:2:DT:OP2	1.93	0.69
1:A:88:TRP:O	1:A:92:VAL:HG23	1.93	0.69
1:A:121:THR:HG22	5:A:2069:HOH:O	1.93	0.69
1:A:159:ALA:HB1	1:A:163:LYS:N	2.08	0.69
1:A:308:TYR:CE2	1:A:734:PRO:HG2	2.28	0.69
1:A:571:TYR:HD1	1:A:634:VAL:HG11	1.57	0.69
1:B:58:GLN:HG3	1:B:67:ASN:ND2	2.05	0.69
1:B:216:CYS:CA	1:B:219:MET:HE3	2.19	0.69
1:C:308:TYR:CE2	1:C:734:PRO:HG2	2.28	0.69
1:C:751:PHE:C	1:C:752:LEU:HD12	2.18	0.69
1:D:170:LEU:O	1:D:179:LYS:HE2	1.93	0.69
1:A:172:LYS:HA	5:A:2080:HOH:O	1.92	0.69
1:B:386:ARG:NH2	3:I:5:C:OP2	2.26	0.69
1:B:553:GLU:OE1	1:B:869:ASN:N	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:713:LYS:HA	1:C:713:LYS:NZ	2.07	0.69
1:D:109:ILE:HG13	1:D:149:ALA:HB2	1.74	0.69
4:M:7:DT:H2''	4:M:8:DC:C6	2.28	0.69
2:N:12:DT:H2''	2:N:13:DC:H5'	1.75	0.69
1:A:375:THR:HG22	1:A:375:THR:O	1.93	0.69
1:A:517:GLU:OE1	1:A:517:GLU:HA	1.93	0.69
1:B:120:LYS:HD2	1:B:752:LEU:CD2	2.23	0.69
1:D:64:VAL:HA	5:D:2026:HOH:O	1.92	0.69
1:A:118:THR:CG2	1:A:141:ILE:HD13	2.23	0.68
1:C:437:ASN:HD22	1:C:437:ASN:N	1.91	0.68
1:C:505:GLN:O	1:C:508:PRO:HD3	1.92	0.68
1:C:656:GLN:HB3	1:C:657:PRO:CD	2.22	0.68
1:B:870:LEU:HD23	1:B:871:ASN:N	2.07	0.68
1:C:752:LEU:HB3	5:C:2160:HOH:O	1.91	0.68
1:D:281:ILE:HD11	1:D:308:TYR:HB3	1.75	0.68
1:D:704:LYS:HE3	1:D:860:LYS:NZ	2.08	0.68
1:B:126:LEU:HD23	5:B:2083:HOH:O	1.92	0.68
1:C:92:VAL:HG12	1:C:99:ARG:HG3	1.76	0.68
1:C:108:GLU:OE1	1:C:108:GLU:HA	1.91	0.68
1:A:308:TYR:HA	1:A:311:VAL:CG2	2.23	0.68
1:B:158:GLU:HB3	1:B:190:MET:HE1	1.76	0.68
1:C:373:ALA:HB1	1:C:377:TRP:HE1	1.59	0.68
1:C:669:GLN:HG2	1:C:672:GLN:HE21	1.58	0.68
3:I:4:G:N7	5:I:2006:HOH:O	2.24	0.68
2:N:5:DA:H2''	2:N:6:DT:OP2	1.92	0.68
1:A:425:ARG:NH2	1:A:784:HIS:HD2	1.91	0.68
1:A:592:ASN:OD1	1:A:611:LEU:HD23	1.92	0.68
1:B:335:LEU:HD22	1:B:339:ASN:ND2	2.09	0.68
1:B:680:LEU:HD12	1:B:680:LEU:N	2.09	0.68
1:D:19:ILE:HG23	1:D:20:PRO:HD2	1.75	0.68
1:D:236:VAL:HG11	1:D:239:GLN:HB2	1.75	0.68
1:A:448:LYS:HE2	5:A:2287:HOH:O	1.94	0.68
1:A:546:PHE:CZ	1:A:783:VAL:CG2	2.75	0.68
1:A:730:PRO:CD	1:A:786:GLN:HE22	2.06	0.68
1:B:215:ARG:O	1:B:219:MET:HG3	1.93	0.68
1:C:616:LEU:HD23	1:C:619:GLN:OE1	1.93	0.68
1:D:608:LYS:HG3	5:D:2142:HOH:O	1.93	0.68
1:D:804:ILE:HG23	1:D:816:THR:HG21	1.76	0.68
1:A:116:TYR:CE2	1:A:752:LEU:HD22	2.29	0.68
1:B:143:ARG:NH1	1:B:209:SER:OG	2.27	0.68
1:B:325:ASN:HB3	5:B:2147:HOH:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:159:ALA:HB1	1:C:163:LYS:N	2.08	0.68
1:A:881:ALA:O	1:A:882:PHE:C	2.34	0.68
1:B:51:PHE:O	1:B:51:PHE:HD2	1.77	0.68
1:B:92:VAL:HG22	5:B:2075:HOH:O	1.94	0.68
1:C:801:LYS:O	1:C:801:LYS:HE3	1.93	0.68
1:A:226:MET:HB3	5:A:2101:HOH:O	1.93	0.68
1:A:423:ARG:HE	1:A:781:ASN:ND2	1.91	0.68
1:A:568:GLN:CD	1:B:565:GLU:HB2	2.19	0.68
1:B:790:HIS:NE2	1:B:831:THR:HG22	2.09	0.68
1:D:84:ARG:HD2	1:D:219:MET:HG2	1.74	0.68
1:C:849:PHE:CD2	1:C:853:LEU:HD21	2.27	0.67
1:D:84:ARG:HG2	1:D:84:ARG:HH11	1.57	0.67
1:D:596:THR:HG23	5:D:2143:HOH:O	1.92	0.67
1:A:529:ASN:HD22	1:A:529:ASN:C	2.02	0.67
1:B:165:ASN:OD1	1:B:165:ASN:N	2.27	0.67
1:C:232:GLN:HB2	1:C:241:SER:O	1.94	0.67
1:D:181:ALA:O	1:D:185:VAL:HG13	1.94	0.67
1:A:713:LYS:O	1:A:714:LYS:HE2	1.94	0.67
1:A:882:PHE:O	1:A:883:ALA:CB	2.42	0.67
1:B:650:VAL:HA	5:B:2281:HOH:O	1.93	0.67
1:B:656:GLN:HB3	1:B:657:PRO:CD	2.24	0.67
1:A:89:PHE:HE2	1:A:107:GLN:HG3	1.60	0.67
1:A:485:ASN:HD22	1:A:488:ASN:HD22	1.41	0.67
1:D:816:THR:OG1	1:D:824:LEU:HD23	1.94	0.67
2:H:12:DT:H2''	2:H:13:DC:H5'	1.76	0.67
4:P:8:DC:H2''	4:P:9:DC:OP2	1.94	0.67
1:B:505:GLN:HG3	1:B:511:PHE:CD2	2.30	0.67
1:C:72:PRO:HG2	5:C:2043:HOH:O	1.93	0.67
1:C:109:ILE:CD1	1:C:149:ALA:HB2	2.24	0.67
1:C:126:LEU:HD23	1:C:132:THR:CG2	2.24	0.67
1:A:22:ASN:ND2	5:A:2043:HOH:O	2.27	0.67
1:B:138:ALA:O	1:B:213:GLY:HA3	1.94	0.67
1:A:150:ARG:HD2	1:A:201:TRP:CG	2.30	0.67
1:A:225:GLY:HA3	5:A:2099:HOH:O	1.95	0.67
1:A:421:ASP:OD2	1:A:427:TYR:CE1	2.47	0.67
1:B:324:GLN:NE2	1:B:418:TYR:H	1.91	0.67
1:C:151:PHE:CD1	1:C:183:MET:HB3	2.30	0.67
1:C:324:GLN:HE21	1:C:418:TYR:H	1.40	0.67
1:D:351:ASP:N	5:D:2097:HOH:O	2.19	0.67
1:A:794:THR:OG1	1:A:831:THR:HG21	1.93	0.67
1:A:881:ALA:C	5:A:2310:HOH:O	2.38	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:326:THR:HG23	1:D:806:SER:HA	1.74	0.67
1:D:488:ASN:HB3	1:D:501:TRP:CE3	2.30	0.67
1:D:630:THR:O	1:D:634:VAL:HG12	1.95	0.67
1:C:15:GLU:HG2	1:C:18:ALA:O	1.94	0.67
1:C:374:LEU:HD12	1:C:374:LEU:N	2.10	0.67
1:D:726:HIS:CD2	1:D:727:TRP:N	2.63	0.67
1:A:109:ILE:HD12	1:A:109:ILE:N	2.10	0.66
1:A:879:ASP:HB2	5:A:2307:HOH:O	1.95	0.66
1:B:55:PHE:HE1	1:B:69:ALA:CB	2.08	0.66
1:B:346:HIS:HA	1:B:395:ARG:HH11	1.60	0.66
1:C:191:LEU:HB2	5:C:2066:HOH:O	1.94	0.66
1:C:324:GLN:NE2	1:C:418:TYR:H	1.93	0.66
1:D:88:TRP:HA	1:D:91:GLU:CD	2.21	0.66
4:M:6:DT:H2''	4:M:7:DT:H71	1.75	0.66
1:A:55:PHE:CE2	1:A:59:LEU:HD11	2.30	0.66
1:A:105:PHE:HB3	1:A:204:TRP:CH2	2.30	0.66
1:B:737:GLN:NE2	1:B:739:TYR:HE2	1.93	0.66
1:D:298:ARG:HH21	1:D:427:TYR:CB	2.05	0.66
1:B:881:ALA:HA	5:B:2352:HOH:O	1.94	0.66
1:C:402:LEU:HG	1:C:439:MET:HE1	1.77	0.66
1:D:56:GLU:CD	1:D:57:ARG:N	2.54	0.66
1:A:118:THR:HG21	1:A:216:CYS:HB3	1.77	0.66
1:B:422:TRP:HE3	5:B:2182:HOH:O	1.78	0.66
1:A:15:GLU:HB2	1:A:19:ILE:HG12	1.76	0.66
1:A:220:LEU:HA	5:A:2097:HOH:O	1.95	0.66
1:C:21:PHE:HE1	5:C:2031:HOH:O	1.77	0.66
1:D:881:ALA:O	1:D:882:PHE:C	2.38	0.66
4:P:4:DG:H1'	5:P:2005:HOH:O	1.95	0.66
1:A:623:TYR:CD1	1:A:663:LYS:HE3	2.31	0.66
1:D:766:ASP:HA	5:D:2161:HOH:O	1.95	0.66
1:B:432:PHE:CE2	1:B:444:LEU:HD21	2.31	0.66
1:B:881:ALA:O	1:B:882:PHE:C	2.37	0.66
1:C:292:ARG:N	1:C:293:PRO:HD3	2.11	0.66
1:D:669:GLN:HG2	1:D:672:GLN:NE2	2.10	0.66
3:L:4:G:N7	5:L:2004:HOH:O	2.29	0.66
1:A:205:HIS:O	1:A:207:GLU:N	2.29	0.66
1:A:882:PHE:H	1:A:882:PHE:HD1	1.37	0.66
1:C:303:LYS:HE2	1:C:740:LYS:NZ	2.10	0.66
1:C:417:PRO:HG2	1:C:429:VAL:HB	1.77	0.66
1:C:552:ASP:HB2	1:C:691:ALA:HB2	1.77	0.66
1:A:118:THR:HG22	1:A:141:ILE:HD13	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:324:GLN:HE21	1:B:418:TYR:H	1.44	0.66
1:B:24:LEU:HD13	1:B:33:ALA:HA	1.79	0.66
1:B:231:ARG:HH11	1:B:242:GLU:HB2	1.61	0.66
1:B:536:PHE:HB3	1:B:882:PHE:HB3	1.76	0.66
1:B:423:ARG:HB2	1:B:423:ARG:HH11	1.61	0.65
1:C:606:SER:HB2	5:C:2141:HOH:O	1.96	0.65
1:A:227:VAL:HB	1:A:244:ILE:HG22	1.77	0.65
1:A:452:ILE:HG22	1:A:528:TYR:O	1.95	0.65
1:B:110:LYS:HG2	1:B:112:GLU:OE1	1.96	0.65
1:B:573:ILE:HD11	1:B:688:THR:HG21	1.78	0.65
1:B:574:VAL:O	1:B:578:VAL:HG23	1.96	0.65
1:C:116:TYR:OH	1:C:752:LEU:HD22	1.96	0.65
1:C:312:TYR:CZ	1:C:314:PRO:HG2	2.30	0.65
1:C:656:GLN:HG2	5:C:2148:HOH:O	1.96	0.65
1:D:155:ARG:HB2	5:D:2044:HOH:O	1.95	0.65
1:A:470:VAL:O	1:A:470:VAL:HG12	1.97	0.65
1:A:711:LYS:NZ	1:A:711:LYS:CB	2.52	0.65
1:B:96:ARG:HD3	5:B:2078:HOH:O	1.95	0.65
1:B:331:ASN:HB2	1:B:445:THR:HG22	1.79	0.65
1:B:730:PRO:HD3	1:B:786:GLN:HE22	1.61	0.65
1:C:809:LEU:C	1:C:810:ILE:HG13	2.22	0.65
1:D:337:VAL:O	1:D:341:ILE:HG12	1.96	0.65
1:A:36:GLN:HG3	1:A:273:VAL:HG22	1.79	0.65
1:A:219:MET:HB3	5:A:2060:HOH:O	1.96	0.65
1:B:182:PHE:O	1:B:185:VAL:HG22	1.96	0.65
1:B:437:ASN:C	1:B:437:ASN:HD22	2.05	0.65
1:B:867:LYS:HE2	5:B:2240:HOH:O	1.95	0.65
1:C:15:GLU:CG	1:C:18:ALA:H	2.08	0.65
1:C:103:PHE:CE2	1:C:107:GLN:NE2	2.64	0.65
1:C:551:ARG:HE	1:C:872:LEU:HD11	1.60	0.65
1:C:577:LYS:HE3	5:C:2135:HOH:O	1.96	0.65
1:D:439:MET:HE2	1:D:443:LEU:HD11	1.78	0.65
1:B:54:MET:O	1:B:58:GLN:HG2	1.96	0.65
1:C:32:LEU:HG	1:C:272:VAL:HG12	1.77	0.65
1:C:307:ARG:HH11	1:C:307:ARG:CG	2.04	0.65
1:D:81:MET:HE1	1:D:220:LEU:HB2	1.77	0.65
1:D:692:ALA:O	1:D:696:MET:HG3	1.96	0.65
1:A:457:TYR:CD1	1:A:521:VAL:HG11	2.32	0.65
1:A:720:ARG:NH1	1:A:721:LYS:O	2.29	0.65
1:D:663:LYS:HG2	1:D:664:GLY:N	2.07	0.65
3:F:1:G:H2'	3:F:2:C:C6	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:PRO:HG2	1:B:112:GLU:OE2	1.97	0.65
1:B:183:MET:HE2	1:B:183:MET:HA	1.78	0.65
1:B:391:ARG:HB3	1:B:391:ARG:HH11	1.61	0.65
1:C:333:LYS:HB3	1:C:516:PHE:HE2	1.56	0.65
1:D:120:LYS:C	1:D:120:LYS:HD3	2.22	0.65
1:D:155:ARG:CB	1:D:163:LYS:HE2	2.27	0.65
1:D:861:MET:HE3	1:D:862:PRO:HD2	1.78	0.65
2:K:7:DC:H2''	2:K:8:DG:O5'	1.94	0.65
1:B:278:TRP:HE1	1:B:324:GLN:HE22	1.45	0.65
1:B:690:VAL:O	1:B:694:GLU:HG3	1.97	0.65
1:D:319:ALA:CB	1:D:792:ARG:HG2	2.27	0.65
1:A:571:TYR:CD1	1:A:634:VAL:HG11	2.32	0.65
1:B:256:THR:HG22	5:B:2124:HOH:O	1.96	0.65
1:B:374:LEU:HD12	1:B:374:LEU:H	1.60	0.65
1:D:36:GLN:HG3	1:D:273:VAL:HG22	1.79	0.65
1:B:599:ASP:HA	5:B:2267:HOH:O	1.97	0.65
1:B:881:ALA:C	5:B:2352:HOH:O	2.37	0.65
1:C:333:LYS:CB	1:C:516:PHE:CE2	2.76	0.65
1:D:281:ILE:HG12	1:D:309:GLU:HA	1.78	0.65
1:A:99:ARG:HG2	1:A:99:ARG:NH1	1.98	0.64
1:A:276:LYS:HD2	1:A:283:GLY:O	1.96	0.64
1:A:540:CYS:HB3	5:A:2024:HOH:O	1.97	0.64
1:C:704:LYS:HE3	5:M:2006:HOH:O	1.97	0.64
1:D:153:ARG:HH22	1:D:201:TRP:NE1	1.95	0.64
1:D:220:LEU:HG	5:D:2059:HOH:O	1.97	0.64
1:D:719:LEU:N	1:D:719:LEU:CD1	2.59	0.64
1:A:281:ILE:HD11	1:A:308:TYR:CB	2.27	0.64
1:B:717:GLU:HA	5:B:2305:HOH:O	1.96	0.64
1:B:791:LEU:HD21	1:B:809:LEU:HD13	1.79	0.64
1:D:59:LEU:HD23	1:D:64:VAL:HG22	1.79	0.64
1:D:159:ALA:HB1	1:D:163:LYS:N	2.11	0.64
1:D:786:GLN:HG3	1:D:836:TYR:OH	1.96	0.64
1:A:119:ILE:HD12	5:A:2059:HOH:O	1.96	0.64
1:A:485:ASN:HD22	1:A:488:ASN:ND2	1.96	0.64
1:A:714:LYS:HA	1:A:714:LYS:NZ	2.13	0.64
1:D:824:LEU:O	1:D:824:LEU:HD12	1.97	0.64
1:A:292:ARG:HG3	1:A:292:ARG:O	1.97	0.64
1:D:219:MET:HE2	5:D:2030:HOH:O	1.97	0.64
1:D:663:LYS:HE3	1:D:666:MET:CE	2.28	0.64
1:A:30:GLU:CD	1:A:34:ARG:NH2	2.56	0.64
1:A:40:GLU:OE1	1:A:286:TYR:HB3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:595:VAL:HG22	5:A:2237:HOH:O	1.97	0.64
1:C:73:LEU:HG	5:C:2043:HOH:O	1.96	0.64
1:D:141:ILE:O	1:D:145:ILE:HG12	1.98	0.64
2:K:9:DA:N6	4:M:1:DG:N2	2.45	0.64
1:C:291:ARG:HB2	5:C:2079:HOH:O	1.96	0.64
1:C:341:ILE:HD12	1:C:348:PRO:HB3	1.78	0.64
1:A:21:PHE:CD1	1:A:21:PHE:C	2.76	0.64
1:A:84:ARG:HH21	1:A:222:GLU:CD	2.04	0.64
1:A:425:ARG:NH2	1:A:784:HIS:CD2	2.66	0.64
1:A:668:THR:CG2	1:A:669:GLN:NE2	2.43	0.64
1:B:77:LEU:HD12	1:B:224:THR:HG21	1.79	0.64
3:L:1:G:H2'	3:L:2:C:C6	2.32	0.64
1:A:32:LEU:HD12	1:A:272:VAL:HG12	1.79	0.64
1:A:80:LYS:HE2	1:A:224:THR:HG22	1.79	0.64
1:B:148:GLU:HA	1:B:148:GLU:OE2	1.97	0.64
1:B:663:LYS:CG	1:B:664:GLY:H	1.94	0.64
1:C:68:ALA:HB3	1:C:261:LEU:HD21	1.79	0.64
1:C:115:ALA:O	1:C:119:ILE:HG12	1.97	0.64
1:C:422:TRP:CH2	2:K:12:DT:H5"	2.33	0.64
1:C:455:GLU:HA	1:C:455:GLU:OE1	1.98	0.64
1:C:816:THR:OG1	1:C:824:LEU:HD22	1.98	0.64
1:D:790:HIS:NE2	1:D:832:MET:HB2	2.13	0.64
1:A:391:ARG:HH11	1:A:391:ARG:HG2	1.63	0.64
1:B:55:PHE:HE1	1:B:69:ALA:HB3	1.62	0.64
1:B:132:THR:HB	5:B:2083:HOH:O	1.98	0.64
1:C:828:VAL:HB	1:C:883:ALA:HA	1.78	0.64
1:A:150:ARG:HD2	1:A:201:TRP:CD1	2.33	0.64
1:A:565:GLU:HG3	5:A:2225:HOH:O	1.97	0.64
5:A:2025:HOH:O	1:B:553:GLU:HG3	1.97	0.64
1:D:423:ARG:NH2	1:D:784:HIS:ND1	2.45	0.64
1:C:162:PHE:CG	5:C:2059:HOH:O	2.51	0.63
1:C:457:TYR:CD1	1:C:521:VAL:HG11	2.32	0.63
1:D:335:LEU:HD22	1:D:339:ASN:ND2	2.13	0.63
3:I:1:G:H2'	3:I:2:C:C6	2.34	0.63
2:K:18:DC:H2"	5:K:2016:HOH:O	1.99	0.63
1:B:71:LYS:N	1:B:72:PRO:HD2	2.14	0.63
1:C:804:ILE:HG23	1:C:816:THR:HG21	1.80	0.63
1:A:861:MET:HE3	1:A:862:PRO:CD	2.23	0.63
1:B:28:TYR:O	1:B:32:LEU:HD23	1.98	0.63
1:B:639:TYR:O	2:H:10:DC:H4'	1.97	0.63
1:C:162:PHE:HB3	5:C:2059:HOH:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:GLN:HG3	1:A:67:ASN:HD22	1.64	0.63
1:A:648:GLN:O	1:A:652:GLU:HG2	1.97	0.63
1:B:473:VAL:CG1	1:B:477:GLU:CB	2.76	0.63
1:B:475:PHE:HE1	1:B:478:ARG:NH1	1.97	0.63
1:C:15:GLU:HG2	1:C:18:ALA:H	1.62	0.63
1:C:522:GLN:OE1	1:C:522:GLN:HA	1.97	0.63
1:D:133:THR:HA	1:D:243:THR:HG22	1.79	0.63
1:A:428:ALA:HB3	1:A:433:ASN:ND2	2.13	0.63
1:B:34:ARG:HD3	5:B:2049:HOH:O	1.97	0.63
1:B:225:GLY:O	1:B:247:ALA:HB2	1.98	0.63
1:B:787:ASP:C	1:B:787:ASP:OD1	2.41	0.63
1:C:532:LEU:HD23	1:C:534:LEU:CD2	2.24	0.63
1:C:652:GLU:HA	1:C:656:GLN:HB2	1.81	0.63
1:D:84:ARG:HG2	1:D:84:ARG:NH1	2.13	0.63
1:D:291:ARG:HB2	5:D:2076:HOH:O	1.97	0.63
1:D:537:ASP:H	1:D:882:PHE:HD2	1.46	0.63
1:A:181:ALA:O	1:A:185:VAL:HG13	1.99	0.63
1:B:561:LEU:C	1:B:562:LEU:HD23	2.24	0.63
1:C:113:ALA:O	1:C:117:ILE:HG13	1.97	0.63
1:C:303:LYS:NZ	1:C:740:LYS:NZ	2.46	0.63
1:C:726:HIS:HB3	5:C:2155:HOH:O	1.97	0.63
1:D:552:ASP:HB2	1:D:691:ALA:HB2	1.81	0.63
1:B:138:ALA:HA	1:B:141:ILE:HD12	1.80	0.63
1:C:532:LEU:CD2	1:C:534:LEU:HD23	2.27	0.63
1:D:34:ARG:HG2	5:D:2023:HOH:O	1.98	0.63
1:D:796:VAL:HA	5:D:2167:HOH:O	1.98	0.63
1:A:710:VAL:HG13	1:A:720:ARG:HB3	1.81	0.63
1:B:42:GLU:HG2	1:B:46:MET:HE2	1.81	0.63
1:B:375:THR:HG22	1:B:375:THR:O	1.99	0.63
1:C:123:LEU:O	1:C:127:THR:HG23	1.99	0.63
1:C:881:ALA:O	1:C:882:PHE:C	2.42	0.63
1:A:437:ASN:ND2	1:A:440:THR:H	1.97	0.63
1:A:499:ASN:HA	5:A:2188:HOH:O	1.97	0.63
1:C:146:GLU:OE2	1:C:201:TRP:HB3	1.99	0.63
1:C:755:PHE:N	1:C:755:PHE:HD1	1.95	0.63
1:D:161:HIS:O	1:D:164:LYS:HG2	1.98	0.63
1:A:205:HIS:NE2	1:A:206:LYS:HE2	2.13	0.62
1:B:322:ILE:HD13	1:B:799:HIS:CG	2.34	0.62
1:B:573:ILE:HD12	1:B:573:ILE:O	1.98	0.62
1:C:587:ILE:HG22	1:C:588:ASN:ND2	2.13	0.62
1:C:779:ALA:O	1:C:783:VAL:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:431:MET:HE3	5:D:2070:HOH:O	1.99	0.62
1:D:824:LEU:HD12	1:D:828:VAL:HG13	1.81	0.62
1:A:138:ALA:O	1:A:213:GLY:HA3	1.99	0.62
1:A:159:ALA:O	1:A:163:LYS:HB2	1.99	0.62
1:B:335:LEU:HB2	5:B:2150:HOH:O	1.97	0.62
1:C:154:ILE:CG2	1:C:190:MET:HE1	2.28	0.62
1:C:711:LYS:HG2	1:C:717:GLU:O	1.99	0.62
1:D:36:GLN:CG	1:D:273:VAL:HG22	2.29	0.62
1:D:744:GLN:HA	1:D:756:ARG:NH1	2.14	0.62
1:D:748:ASN:HB2	1:D:753:GLY:CA	2.29	0.62
1:A:77:LEU:CD2	1:A:226:MET:SD	2.87	0.62
1:B:350:GLU:OE2	1:B:394:ARG:NH2	2.27	0.62
1:B:790:HIS:NE2	1:B:831:THR:CG2	2.62	0.62
1:B:812:ASP:OD2	3:I:8:U:O2'	2.09	0.62
1:C:42:GLU:OE1	1:C:407:LYS:NZ	2.27	0.62
1:C:128:SER:HA	5:C:2055:HOH:O	1.98	0.62
1:C:133:THR:CA	1:C:243:THR:HG22	2.16	0.62
1:C:491:ALA:HB1	1:C:499:ASN:HD22	1.62	0.62
1:D:138:ALA:O	1:D:213:GLY:HA3	1.98	0.62
1:D:698:TRP:CZ3	1:D:842:LEU:HG	2.34	0.62
1:B:162:PHE:HE1	1:B:190:MET:HG2	1.64	0.62
1:B:236:VAL:HG11	1:B:239:GLN:HB2	1.81	0.62
1:B:281:ILE:HG23	1:B:305:LEU:HD21	1.81	0.62
1:C:303:LYS:HE2	1:C:740:LYS:HZ1	1.63	0.62
1:A:33:ALA:O	1:A:37:LEU:HG	1.99	0.62
1:B:6:ILE:HG23	1:B:10:ASP:CG	2.24	0.62
1:B:663:LYS:HE3	1:B:666:MET:HE1	1.82	0.62
1:B:881:ALA:CA	5:B:2352:HOH:O	2.47	0.62
1:C:169:GLN:O	1:C:173:ARG:HG2	2.00	0.62
1:D:164:LYS:HE2	1:D:164:LYS:CA	2.30	0.62
1:D:553:GLU:HA	1:D:870:LEU:CD1	2.28	0.62
1:D:882:PHE:O	1:D:883:ALA:HB3	1.98	0.62
1:C:50:ARG:HH11	1:C:50:ARG:CG	2.12	0.62
1:D:109:ILE:CG2	5:D:2041:HOH:O	2.47	0.62
1:D:632:ARG:NH1	1:D:632:ARG:H	1.97	0.62
3:O:1:G:H2'	3:O:2:C:C6	2.34	0.62
1:B:187:GLU:CD	1:B:199:GLU:OE2	2.43	0.62
1:C:428:ALA:H	1:C:435:GLN:HE21	1.41	0.62
1:D:677:MET:O	1:D:681:ILE:HG13	2.00	0.62
1:D:700:LYS:HB2	1:D:700:LYS:NZ	2.14	0.62
1:D:746:ARG:NH1	1:D:746:ARG:HB3	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:268:PHE:HB3	1:B:286:TYR:OH	1.99	0.62
1:B:748:ASN:ND2	1:B:751:PHE:N	2.43	0.62
1:C:4:ILE:HG21	5:C:2019:HOH:O	1.99	0.62
1:D:236:VAL:CG1	1:D:239:GLN:HB2	2.29	0.62
1:A:113:ALA:O	1:A:117:ILE:CG1	2.44	0.62
1:C:50:ARG:HG2	1:C:50:ARG:NH1	2.09	0.62
1:D:335:LEU:HD22	1:D:335:LEU:O	1.99	0.62
1:D:437:ASN:C	1:D:437:ASN:HD22	2.08	0.62
1:B:51:PHE:C	1:B:51:PHE:CD2	2.78	0.62
1:B:195:LEU:HB3	5:B:2100:HOH:O	2.00	0.62
1:B:416:PHE:HD1	1:B:430:SER:HG	1.47	0.62
1:C:636:THR:O	1:C:641:SER:OG	2.18	0.62
5:C:2147:HOH:O	4:M:2:DT:H5'	2.00	0.62
1:D:814:PHE:HE1	1:D:883:ALA:CB	2.12	0.62
2:H:5:DA:H2''	2:H:6:DT:OP2	1.98	0.62
1:A:21:PHE:O	1:A:21:PHE:HD1	1.83	0.61
1:B:744:GLN:HA	1:B:756:ARG:HH21	1.65	0.61
1:C:560:ASN:OD1	1:C:568:GLN:HB2	1.99	0.61
1:C:755:PHE:N	1:C:755:PHE:CD1	2.67	0.61
1:C:846:TYR:CD1	1:C:850:ALA:HB2	2.35	0.61
2:N:9:DA:OP2	5:N:2009:HOH:O	2.16	0.61
1:A:70:ALA:C	1:A:72:PRO:HD2	2.24	0.61
1:A:116:TYR:OH	1:A:752:LEU:HD22	2.00	0.61
1:A:332:LYS:HE2	1:A:410:ASN:ND2	2.15	0.61
1:C:418:TYR:HD2	1:C:426:VAL:CG1	2.13	0.61
1:C:570:ILE:HA	1:C:573:ILE:HG22	1.82	0.61
1:D:350:GLU:OE1	1:D:350:GLU:HA	2.00	0.61
1:D:826:LYS:O	1:D:830:GLU:HG3	1.99	0.61
1:B:6:ILE:HB	1:B:48:GLU:OE2	2.01	0.61
1:B:80:LYS:CD	1:B:224:THR:HG22	2.28	0.61
1:B:109:ILE:HD12	1:B:109:ILE:H	1.65	0.61
1:B:158:GLU:HG2	1:B:195:LEU:CD2	2.26	0.61
1:C:514:PHE:CD1	1:C:515:CYS:N	2.68	0.61
1:D:347:CYS:HB3	1:D:350:GLU:CG	2.31	0.61
1:D:730:PRO:HD2	1:D:786:GLN:HE22	1.65	0.61
1:D:746:ARG:HH12	1:D:754:GLN:H	1.48	0.61
1:A:11:PHE:HZ	1:A:263:GLY:HA2	1.66	0.61
1:C:303:LYS:CE	1:C:740:LYS:NZ	2.63	0.61
1:D:302:LYS:HZ1	1:D:306:MET:HE2	1.64	0.61
1:D:391:ARG:HB3	1:D:391:ARG:HH11	1.66	0.61
1:D:828:VAL:O	1:D:831:THR:HG22	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:869:ASN:N	1:D:869:ASN:ND2	2.47	0.61
1:A:249:GLU:HA	1:A:252:GLU:OE1	2.01	0.61
1:A:742:PRO:HB3	1:A:744:GLN:OE1	2.00	0.61
1:B:14:ILE:HG13	5:B:2134:HOH:O	2.00	0.61
1:B:51:PHE:O	1:B:51:PHE:CD2	2.53	0.61
1:C:226:MET:HA	1:C:250:TYR:CD1	2.36	0.61
1:D:46:MET:HE1	1:D:269:GLN:OE1	2.00	0.61
2:H:3:DG:H2''	2:H:4:DA:OP2	2.00	0.61
1:A:71:LYS:N	1:A:72:PRO:HD2	2.15	0.61
1:B:155:ARG:NH2	1:B:749:LEU:HD23	2.15	0.61
1:B:472:LYS:HB2	5:B:2206:HOH:O	2.00	0.61
1:B:571:TYR:CD1	1:B:631:LYS:HA	2.35	0.61
1:C:410:ASN:HA	5:C:2098:HOH:O	1.98	0.61
1:C:869:ASN:N	1:C:869:ASN:ND2	2.46	0.61
1:C:882:PHE:O	1:C:883:ALA:HB3	1.99	0.61
1:D:66:ASP:OD2	1:D:752:LEU:HD23	1.99	0.61
1:A:56:GLU:C	1:A:56:GLU:OE1	2.43	0.61
1:A:229:LEU:HD13	1:A:244:ILE:CD1	2.31	0.61
1:B:743:ILE:O	1:B:743:ILE:HG22	1.99	0.61
1:C:183:MET:HA	1:C:183:MET:CE	2.29	0.61
1:C:768:GLU:OE2	5:C:2165:HOH:O	2.16	0.61
1:D:120:LYS:HG3	1:D:752:LEU:HD21	1.82	0.61
1:A:30:GLU:HG2	1:A:34:ARG:NH1	2.15	0.61
1:C:109:ILE:HG13	1:C:149:ALA:HB2	1.83	0.61
1:D:326:THR:HA	5:D:2087:HOH:O	2.01	0.61
1:D:422:TRP:CD1	1:D:422:TRP:C	2.79	0.61
1:A:246:LEU:HB3	5:A:2108:HOH:O	1.99	0.61
1:B:552:ASP:HB2	1:B:691:ALA:HB2	1.82	0.61
1:C:105:PHE:CE1	1:C:208:ASP:HB3	2.36	0.61
1:D:332:LYS:HG2	5:D:2011:HOH:O	2.00	0.61
1:D:534:LEU:HD11	1:D:818:PRO:HG3	1.81	0.61
1:A:380:ALA:O	1:A:384:VAL:HG23	2.01	0.61
1:A:553:GLU:HB2	5:A:2222:HOH:O	2.01	0.61
5:A:2258:HOH:O	2:E:10:DC:H5	1.82	0.61
1:B:401:MET:CE	1:B:432:PHE:HD1	2.14	0.61
1:B:537:ASP:H	1:B:882:PHE:HD2	1.47	0.61
1:C:19:ILE:CD1	1:C:20:PRO:HD2	2.31	0.61
1:C:38:ALA:HA	5:C:2034:HOH:O	2.01	0.61
1:D:132:THR:HA	5:D:2037:HOH:O	2.00	0.61
4:J:3:DC:H2'	5:J:2002:HOH:O	2.01	0.61
1:A:871:ASN:ND2	1:A:873:ARG:HB2	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:632:ARG:H	1:B:632:ARG:CD	2.14	0.60
1:C:536:PHE:HB3	1:C:882:PHE:CB	2.24	0.60
1:D:16:LEU:HB2	5:D:2022:HOH:O	2.00	0.60
2:E:4:DA:H5"	5:E:2003:HOH:O	2.00	0.60
2:N:12:DT:H2"	2:N:13:DC:C5'	2.31	0.60
1:A:182:PHE:O	1:A:185:VAL:HG22	2.00	0.60
1:B:16:LEU:HD13	1:B:38:ALA:HA	1.83	0.60
1:B:355:ILE:HB	5:B:2167:HOH:O	2.01	0.60
1:D:9:ASN:HA	1:D:12:SER:HB3	1.83	0.60
1:D:226:MET:HB3	5:D:2059:HOH:O	2.01	0.60
1:A:6:ILE:HG23	1:A:10:ASP:CG	2.25	0.60
1:A:84:ARG:HH21	1:A:222:GLU:HB3	1.67	0.60
1:A:546:PHE:CE2	1:A:783:VAL:HG21	2.36	0.60
1:D:34:ARG:HD3	5:D:2016:HOH:O	2.00	0.60
1:A:825:PHE:CZ	1:A:829:ARG:NH2	2.68	0.60
1:C:173:ARG:NH2	5:C:2062:HOH:O	2.34	0.60
1:C:227:VAL:HG12	1:C:245:GLU:O	2.02	0.60
1:C:554:VAL:HG23	5:C:2128:HOH:O	2.00	0.60
1:D:16:LEU:HA	1:D:37:LEU:CD1	2.31	0.60
2:K:12:DT:H2"	2:K:13:DC:C5'	2.31	0.60
1:A:117:ILE:O	1:A:121:THR:OG1	2.16	0.60
1:A:388:ASP:OD1	1:A:392:LYS:HE2	2.01	0.60
1:A:632:ARG:HB2	1:A:632:ARG:HH11	1.63	0.60
1:B:221:ILE:HG12	1:B:227:VAL:O	2.01	0.60
1:C:4:ILE:CG2	5:C:2019:HOH:O	2.48	0.60
1:C:21:PHE:C	1:C:23:THR:H	2.10	0.60
1:C:229:LEU:HD13	1:C:244:ILE:CD1	2.31	0.60
1:D:64:VAL:HG21	1:D:127:THR:HG21	1.82	0.60
1:D:623:TYR:HA	1:D:666:MET:HE2	1.83	0.60
1:D:99:ARG:HD3	1:D:103:PHE:HE2	1.67	0.60
1:D:298:ARG:NH2	1:D:427:TYR:CB	2.64	0.60
1:A:663:LYS:HA	5:A:2262:HOH:O	2.01	0.60
1:A:882:PHE:N	1:A:882:PHE:HD1	1.96	0.60
1:B:499:ASN:HB3	5:B:2219:HOH:O	2.02	0.60
1:D:87:ASP:O	1:D:91:GLU:HG3	2.02	0.60
2:E:9:DA:H2"	2:E:10:DC:OP1	2.00	0.60
1:A:583:GLN:O	1:A:587:ILE:HG12	2.02	0.60
1:A:730:PRO:CD	1:A:786:GLN:NE2	2.64	0.60
1:B:37:LEU:HD22	1:B:288:ALA:HB2	1.84	0.60
1:C:291:ARG:C	1:C:293:PRO:HD3	2.26	0.60
1:C:727:TRP:NE1	1:C:735:VAL:HG11	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:473:VAL:O	1:D:478:ARG:NE	2.20	0.60
1:A:110:LYS:HG2	1:A:112:GLU:OE1	2.02	0.60
1:B:401:MET:CE	1:B:432:PHE:HB2	2.32	0.60
1:C:226:MET:HA	1:C:250:TYR:HD1	1.66	0.60
1:C:421:ASP:OD2	1:C:423:ARG:NH1	2.34	0.60
1:A:536:PHE:HB3	1:A:882:PHE:CB	2.25	0.60
1:B:162:PHE:CD1	1:B:190:MET:SD	2.95	0.60
1:B:178:TYR:HE2	5:B:2095:HOH:O	1.84	0.60
1:B:752:LEU:HD12	1:B:752:LEU:N	2.16	0.60
1:C:347:CYS:HG	1:C:350:GLU:HG2	1.67	0.60
1:D:402:LEU:HG	1:D:439:MET:CE	2.22	0.60
1:A:6:ILE:HG23	1:A:10:ASP:OD2	2.02	0.59
1:B:116:TYR:CE2	1:B:752:LEU:HD22	2.36	0.59
1:B:262:ALA:HB2	5:B:2059:HOH:O	2.02	0.59
1:C:719:LEU:N	1:C:719:LEU:HD12	2.16	0.59
1:A:78:LEU:N	1:A:79:PRO:HD2	2.16	0.59
1:A:110:LYS:O	1:A:114:VAL:HG23	2.01	0.59
1:A:115:ALA:O	1:A:119:ILE:HG12	2.02	0.59
1:B:307:ARG:HB3	1:B:736:TRP:CZ3	2.38	0.59
1:C:54:MET:O	1:C:58:GLN:HG2	2.02	0.59
1:C:333:LYS:CB	1:C:516:PHE:CD2	2.85	0.59
1:A:57:ARG:HB3	1:A:60:LYS:HZ1	1.67	0.59
1:B:565:GLU:N	5:B:2252:HOH:O	2.25	0.59
1:D:778:ILE:HG23	1:D:779:ALA:H	1.66	0.59
2:K:6:DT:C6	2:K:6:DT:H5'	2.37	0.59
1:B:539:SER:HB2	1:B:544:GLN:OE1	2.02	0.59
1:B:739:TYR:HB2	1:B:774:GLN:OE1	2.02	0.59
1:C:482:ILE:HD12	1:C:514:PHE:CZ	2.37	0.59
1:C:551:ARG:CG	1:C:551:ARG:NH1	2.52	0.59
1:D:302:LYS:NZ	1:D:306:MET:HE2	2.18	0.59
2:H:9:DA:H2''	2:H:10:DC:OP1	2.02	0.59
1:A:236:VAL:HG11	1:A:239:GLN:CG	2.31	0.59
1:A:275:PRO:HD3	1:A:415:TRP:CB	2.32	0.59
1:B:19:ILE:HD12	1:B:20:PRO:HD2	1.83	0.59
1:B:99:ARG:H	1:B:99:ARG:HD2	1.68	0.59
1:C:573:ILE:O	1:C:577:LYS:HG3	2.03	0.59
1:C:854:HIS:CD2	1:C:856:SER:H	2.21	0.59
1:D:700:LYS:HB2	1:D:700:LYS:HZ2	1.67	0.59
1:A:30:GLU:OE1	1:A:34:ARG:NH2	2.34	0.59
1:A:89:PHE:HA	1:A:103:PHE:CE1	2.33	0.59
1:A:120:LYS:HG3	1:A:752:LEU:HD21	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:438:ASP:OD2	1:A:509:PHE:N	2.35	0.59
1:B:517:GLU:O	1:B:521:VAL:HG23	2.02	0.59
1:B:751:PHE:HB3	1:B:752:LEU:CD1	2.33	0.59
1:D:32:LEU:HD12	1:D:32:LEU:N	2.18	0.59
1:D:46:MET:HE1	1:D:269:GLN:CD	2.28	0.59
1:D:88:TRP:HA	1:D:91:GLU:OE2	2.02	0.59
1:D:292:ARG:HA	5:D:2075:HOH:O	2.02	0.59
1:A:55:PHE:CD2	1:A:59:LEU:HD11	2.37	0.59
1:B:116:TYR:HE1	5:B:2315:HOH:O	1.85	0.59
1:C:14:ILE:HG23	1:C:288:ALA:CB	2.32	0.59
1:C:689:VAL:O	1:C:689:VAL:HG23	2.02	0.59
1:D:227:VAL:HG13	5:D:2059:HOH:O	2.03	0.59
1:D:573:ILE:HD12	1:D:573:ILE:O	2.01	0.59
1:A:814:PHE:CE1	1:A:883:ALA:HB2	2.38	0.59
1:C:492:CYS:SG	1:C:501:TRP:HE3	2.26	0.59
1:D:810:ILE:CG2	3:O:8:U:H5'	2.33	0.59
1:A:269:GLN:HE22	1:A:407:LYS:HZ2	1.46	0.59
1:A:468:ALA:HA	1:A:505:GLN:HB3	1.85	0.59
1:A:649:GLN:O	1:A:653:ASP:HB2	2.03	0.59
1:B:473:VAL:CG1	1:B:477:GLU:HB2	2.33	0.59
1:B:669:GLN:HB3	1:B:672:GLN:HB2	1.85	0.59
1:A:6:ILE:O	1:A:10:ASP:HB3	2.03	0.59
1:A:47:GLY:O	1:A:50:ARG:HB3	2.02	0.59
1:A:264:ILE:HG22	1:A:264:ILE:O	2.03	0.59
1:B:256:THR:HB	5:B:2122:HOH:O	2.03	0.59
1:B:410:ASN:HA	5:B:2177:HOH:O	2.03	0.59
1:C:236:VAL:CB	1:C:239:GLN:HB2	2.33	0.59
1:C:514:PHE:CD1	1:C:514:PHE:C	2.80	0.59
1:C:743:ILE:HG12	5:C:2164:HOH:O	2.03	0.59
1:C:881:ALA:O	1:C:883:ALA:N	2.35	0.59
1:D:380:ALA:O	1:D:384:VAL:HG23	2.03	0.59
1:A:170:LEU:HD12	1:A:183:MET:CE	2.33	0.58
1:B:21:PHE:C	1:B:23:THR:H	2.09	0.58
1:C:5:ASN:OD1	1:C:7:ALA:HB3	2.02	0.58
1:C:110:LYS:HE2	1:C:112:GLU:OE1	2.02	0.58
1:C:536:PHE:HA	1:C:882:PHE:HD2	1.67	0.58
1:D:159:ALA:HB2	1:D:190:MET:HE1	1.85	0.58
1:D:462:ILE:HG22	1:D:466:ASN:ND2	2.18	0.58
1:A:142:GLY:HA2	5:A:2072:HOH:O	2.01	0.58
1:A:209:SER:HB2	5:A:2092:HOH:O	2.02	0.58
1:A:236:VAL:CB	1:A:239:GLN:HB2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:749:LEU:HD21	5:B:2088:HOH:O	2.03	0.58
1:C:711:LYS:NZ	1:C:711:LYS:CB	2.64	0.58
1:D:349:VAL:C	5:D:2096:HOH:O	2.46	0.58
1:D:432:PHE:CE2	1:D:444:LEU:HD21	2.39	0.58
1:D:437:ASN:ND2	1:D:440:THR:H	2.01	0.58
1:D:582:LEU:CB	1:D:621:LEU:HD21	2.31	0.58
1:A:377:TRP:HB3	5:A:2148:HOH:O	2.03	0.58
1:A:668:THR:HG22	1:A:669:GLN:HE21	1.59	0.58
1:A:806:SER:O	1:A:816:THR:CG2	2.51	0.58
1:B:51:PHE:HD2	1:B:51:PHE:C	2.10	0.58
1:D:475:PHE:H	1:D:475:PHE:HD1	1.51	0.58
1:D:686:SER:HA	1:D:693:VAL:HG21	1.85	0.58
2:H:12:DT:H2''	2:H:13:DC:C5'	2.33	0.58
1:A:713:LYS:C	1:A:713:LYS:HE3	2.28	0.58
1:B:82:ILE:HG22	5:B:2073:HOH:O	2.03	0.58
1:B:109:ILE:HG13	1:B:149:ALA:HB2	1.84	0.58
1:C:188:ALA:HA	5:C:2066:HOH:O	2.03	0.58
1:C:437:ASN:HD21	1:C:440:THR:H	1.50	0.58
1:C:791:LEU:O	1:C:795:VAL:HG23	2.03	0.58
1:D:116:TYR:CD2	1:D:746:ARG:NH2	2.72	0.58
1:D:158:GLU:HG2	1:D:195:LEU:HD13	1.86	0.58
1:A:84:ARG:CG	1:A:223:SER:HB3	2.31	0.58
1:A:854:HIS:HD2	1:A:856:SER:OG	1.86	0.58
1:C:138:ALA:O	1:C:213:GLY:HA3	2.02	0.58
1:D:534:LEU:N	1:D:534:LEU:HD23	2.19	0.58
2:K:3:DG:H2''	2:K:4:DA:N7	2.18	0.58
4:M:2:DT:H2''	4:M:3:DC:O5'	2.02	0.58
1:A:689:VAL:HG23	1:A:689:VAL:O	2.04	0.58
1:B:43:SER:HA	1:B:46:MET:CE	2.34	0.58
1:D:226:MET:HA	1:D:250:TYR:CD1	2.39	0.58
1:A:105:PHE:CD2	1:A:105:PHE:N	2.69	0.58
1:A:162:PHE:CG	1:A:190:MET:HE1	2.38	0.58
1:B:59:LEU:HA	1:B:64:VAL:CG2	2.32	0.58
1:B:77:LEU:HD21	1:B:226:MET:SD	2.44	0.58
1:C:301:SER:HB2	1:C:303:LYS:HG3	1.86	0.58
1:C:551:ARG:HB2	1:C:868:GLY:H	1.68	0.58
1:D:226:MET:HA	1:D:250:TYR:HD1	1.68	0.58
1:D:286:TYR:CE1	1:D:417:PRO:HG3	2.39	0.58
1:D:551:ARG:NH2	1:D:836:TYR:O	2.22	0.58
1:D:609:VAL:HG12	5:D:2148:HOH:O	2.03	0.58
1:A:881:ALA:O	1:A:883:ALA:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:LEU:HD13	1:C:244:ILE:HD13	1.85	0.58
1:D:348:PRO:CG	5:D:2092:HOH:O	2.32	0.58
2:H:17:DG:H2''	2:H:18:DC:C6	2.38	0.58
1:A:116:TYR:HE2	1:A:752:LEU:HD22	1.68	0.58
1:A:163:LYS:HB3	1:A:164:LYS:NZ	2.18	0.58
1:A:571:TYR:CD1	1:A:634:VAL:CG1	2.87	0.58
1:A:632:ARG:NH1	1:A:632:ARG:CB	2.62	0.58
1:B:21:PHE:C	1:B:23:THR:N	2.61	0.58
1:B:490:MET:HE1	1:B:522:GLN:HB2	1.84	0.58
1:C:56:GLU:OE1	1:C:57:ARG:N	2.36	0.58
1:D:617:ALA:O	1:D:621:LEU:HG	2.03	0.58
1:A:423:ARG:NH2	1:A:784:HIS:ND1	2.50	0.58
1:B:155:ARG:CZ	1:B:749:LEU:HD23	2.34	0.58
1:B:401:MET:HE1	1:B:432:PHE:HB2	1.84	0.58
1:B:479:ILE:O	1:B:483:GLU:HG3	2.03	0.58
1:B:748:ASN:ND2	1:B:752:LEU:N	2.52	0.58
1:C:825:PHE:O	1:C:829:ARG:NH1	2.37	0.58
1:D:6:ILE:O	1:D:10:ASP:HB3	2.04	0.58
1:D:182:PHE:O	1:D:186:VAL:HG23	2.02	0.58
1:D:475:PHE:HE1	1:D:880:PHE:CD1	2.20	0.58
1:D:677:MET:HG3	1:D:681:ILE:HD11	1.85	0.58
2:K:17:DG:H2''	2:K:18:DC:C6	2.39	0.58
1:A:552:ASP:HB2	1:A:691:ALA:HB2	1.86	0.57
1:A:806:SER:O	1:A:816:THR:HG23	2.03	0.57
1:C:120:LYS:NZ	1:C:752:LEU:HD11	2.19	0.57
1:C:205:HIS:C	1:C:207:GLU:N	2.62	0.57
1:C:829:ARG:HH11	1:C:829:ARG:HG3	1.69	0.57
1:D:352:ILE:HG22	5:D:2101:HOH:O	2.04	0.57
1:D:486:HIS:HD1	1:D:486:HIS:C	2.12	0.57
4:G:2:DT:H2'	5:G:2001:HOH:O	2.04	0.57
2:N:5:DA:H1'	2:N:6:DT:C5'	2.34	0.57
1:B:746:ARG:HB3	1:B:746:ARG:CZ	2.33	0.57
1:C:105:PHE:HE1	1:C:208:ASP:HB3	1.69	0.57
1:A:229:LEU:HD13	1:A:244:ILE:HD13	1.85	0.57
1:A:714:LYS:HA	1:A:714:LYS:HZ3	1.69	0.57
1:B:314:PRO:HD2	5:B:2144:HOH:O	2.04	0.57
1:B:433:ASN:HB2	1:B:434:PRO:CD	2.34	0.57
1:B:475:PHE:CE1	1:B:478:ARG:NH1	2.72	0.57
2:N:17:DG:H2''	2:N:18:DC:C6	2.39	0.57
1:A:828:VAL:CG1	1:A:883:ALA:HA	2.34	0.57
1:A:829:ARG:HH11	1:A:829:ARG:HG3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:419:ASN:HD22	1:B:419:ASN:N	2.01	0.57
1:B:671:ASN:HB2	5:B:2297:HOH:O	2.03	0.57
1:C:5:ASN:HD21	1:C:7:ALA:C	2.12	0.57
1:C:281:ILE:CG2	1:C:282:THR:HG23	2.32	0.57
1:C:425:ARG:HH21	1:C:784:HIS:CD2	2.23	0.57
1:C:551:ARG:NH1	1:C:551:ARG:HG2	2.19	0.57
1:C:711:LYS:HB2	1:C:711:LYS:HZ3	1.67	0.57
1:C:777:GLY:O	1:C:781:ASN:HB2	2.05	0.57
1:D:105:PHE:HB3	5:D:2033:HOH:O	2.03	0.57
1:D:555:GLY:O	1:D:559:VAL:HG22	2.05	0.57
1:D:583:GLN:O	1:D:587:ILE:HG12	2.02	0.57
1:D:873:ARG:HH11	1:D:876:LEU:HD11	1.69	0.57
2:H:7:DC:H5'	5:H:2008:HOH:O	2.05	0.57
1:B:532:LEU:HD12	1:B:533:PRO:CD	2.30	0.57
1:C:491:ALA:HB1	1:C:499:ASN:ND2	2.19	0.57
1:D:74:ILE:HD12	5:D:2027:HOH:O	2.04	0.57
1:D:551:ARG:HB2	1:D:868:GLY:H	1.69	0.57
1:D:832:MET:HG2	1:D:875:ILE:HD13	1.85	0.57
1:D:881:ALA:O	1:D:883:ALA:N	2.37	0.57
1:A:452:ILE:HD12	1:A:818:PRO:CB	2.34	0.57
1:B:15:GLU:OE2	1:B:18:ALA:O	2.22	0.57
1:B:326:THR:HG23	1:B:806:SER:HA	1.86	0.57
1:C:158:GLU:OE2	1:C:195:LEU:HB3	2.04	0.57
1:C:681:ILE:O	1:C:685:VAL:HG13	2.05	0.57
1:C:810:ILE:O	1:C:810:ILE:HG22	2.03	0.57
1:D:134:VAL:HG12	1:D:242:GLU:O	2.04	0.57
1:D:322:ILE:HG13	5:D:2167:HOH:O	2.04	0.57
1:A:111:PRO:HG2	1:A:112:GLU:OE2	2.04	0.57
1:A:205:HIS:C	1:A:207:GLU:H	2.13	0.57
1:C:96:ARG:HG2	1:C:96:ARG:NH1	2.18	0.57
1:C:719:LEU:N	1:C:719:LEU:CD1	2.68	0.57
1:A:338:ALA:O	1:A:342:THR:HG23	2.04	0.57
1:C:172:LYS:HD2	3:L:3:G:H5''	1.85	0.57
1:C:463:HIS:HA	1:C:466:ASN:HD22	1.68	0.57
1:D:604:GLU:HG3	5:D:2141:HOH:O	2.04	0.57
1:A:78:LEU:O	1:A:82:ILE:HG13	2.05	0.57
1:A:204:TRP:HA	1:A:208:ASP:OD2	2.04	0.57
1:A:332:LYS:CE	1:A:410:ASN:HD22	2.18	0.57
1:A:347:CYS:CB	1:A:350:GLU:HG3	2.34	0.57
1:C:21:PHE:C	1:C:23:THR:N	2.61	0.57
1:C:30:GLU:HA	5:C:2031:HOH:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:96:ARG:H	1:C:96:ARG:HD2	1.69	0.57
1:C:860:LYS:HB2	5:C:2182:HOH:O	2.05	0.57
1:A:21:PHE:C	1:A:23:THR:H	2.12	0.57
1:B:389:LYS:HA	1:B:392:LYS:HE2	1.86	0.57
1:B:573:ILE:HD12	1:B:574:VAL:N	2.19	0.57
1:C:88:TRP:NE1	1:C:215:ARG:HE	2.03	0.57
1:C:312:TYR:HA	5:C:2087:HOH:O	2.05	0.57
1:D:52:ARG:HH21	1:D:52:ARG:HG3	1.70	0.57
1:D:281:ILE:HD11	1:D:308:TYR:CB	2.34	0.57
1:A:46:MET:HE3	1:A:267:MET:HB2	1.87	0.56
1:A:213:GLY:O	1:A:217:ILE:HG13	2.05	0.56
1:A:668:THR:C	1:A:669:GLN:HE21	2.12	0.56
1:C:154:ILE:HG23	1:C:190:MET:CE	2.32	0.56
1:C:555:GLY:HA3	5:C:2126:HOH:O	2.05	0.56
1:C:563:PRO:HB3	1:C:877:GLU:O	2.04	0.56
1:C:810:ILE:CG2	3:L:8:U:H5'	2.35	0.56
1:C:882:PHE:HD1	1:C:882:PHE:N	2.03	0.56
2:E:12:DT:H2''	2:E:13:DC:C5'	2.35	0.56
1:B:336:ALA:O	1:B:340:VAL:HG23	2.04	0.56
1:B:573:ILE:C	1:B:573:ILE:CD1	2.60	0.56
1:C:199:GLU:HG2	1:C:201:TRP:CD1	2.37	0.56
1:C:502:TRP:CG	1:C:512:LEU:HD13	2.40	0.56
1:D:475:PHE:N	1:D:476:PRO:HD2	2.20	0.56
4:J:4:DG:H2''	4:J:5:DA:H8	1.68	0.56
1:A:155:ARG:CB	1:A:749:LEU:HD21	2.34	0.56
1:A:211:HIS:HB2	5:A:2093:HOH:O	2.05	0.56
1:A:214:VAL:O	1:A:218:GLU:HG3	2.05	0.56
1:B:6:ILE:O	1:B:10:ASP:HB3	2.05	0.56
1:B:84:ARG:HD2	1:B:219:MET:CB	2.33	0.56
1:B:84:ARG:HA	1:B:84:ARG:HH11	1.68	0.56
1:B:158:GLU:HA	1:B:195:LEU:CD2	2.36	0.56
1:B:417:PRO:HG2	1:B:429:VAL:HB	1.87	0.56
1:B:422:TRP:CD1	1:B:422:TRP:C	2.83	0.56
1:B:490:MET:HE1	1:B:522:GLN:CB	2.35	0.56
1:B:710:VAL:CG1	1:B:720:ARG:HB3	2.36	0.56
1:B:873:ARG:HD2	5:B:2345:HOH:O	2.03	0.56
1:C:633:SER:HB3	1:C:646:PHE:CE1	2.41	0.56
1:D:21:PHE:C	1:D:23:THR:H	2.12	0.56
1:D:406:ASN:HB2	5:D:2112:HOH:O	2.04	0.56
1:D:632:ARG:HA	1:D:635:MET:HG2	1.86	0.56
1:D:719:LEU:N	1:D:719:LEU:HD12	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:737:GLN:HE22	1:D:778:ILE:HA	1.68	0.56
2:E:6:DT:H2''	2:E:7:DC:C5	2.40	0.56
4:M:5:DA:H2''	4:M:6:DT:H72	1.87	0.56
1:A:84:ARG:NH2	1:A:222:GLU:HB3	2.20	0.56
1:A:118:THR:CG2	1:A:216:CYS:HB3	2.35	0.56
1:A:391:ARG:HG2	1:A:391:ARG:NH1	2.19	0.56
1:B:342:THR:HG22	1:B:348:PRO:HG3	1.87	0.56
1:C:778:ILE:HG23	1:C:779:ALA:N	2.19	0.56
1:A:21:PHE:C	1:A:23:THR:N	2.63	0.56
1:A:487:GLU:OE1	1:A:487:GLU:HA	2.05	0.56
1:A:663:LYS:CG	1:A:664:GLY:N	2.68	0.56
1:A:721:LYS:HE2	5:A:2268:HOH:O	2.06	0.56
1:B:14:ILE:CG1	5:B:2134:HOH:O	2.54	0.56
1:B:89:PHE:O	1:B:93:LYS:HG3	2.05	0.56
1:C:6:ILE:O	1:C:10:ASP:HB3	2.06	0.56
1:D:52:ARG:HG3	1:D:52:ARG:NH2	2.20	0.56
1:D:116:TYR:HH	1:D:752:LEU:HD22	1.71	0.56
1:A:92:VAL:HG11	1:A:100:PRO:HD2	1.87	0.56
1:A:109:ILE:CG1	1:A:149:ALA:HB2	2.36	0.56
1:A:176:HIS:HA	5:A:2081:HOH:O	2.05	0.56
1:A:669:GLN:NE2	1:A:669:GLN:N	2.53	0.56
1:B:398:LEU:C	1:B:398:LEU:CD2	2.78	0.56
1:B:450:LYS:HE2	1:B:817:ILE:HD11	1.88	0.56
1:C:871:ASN:ND2	1:C:873:ARG:HB2	2.21	0.56
1:D:43:SER:HA	1:D:46:MET:CE	2.28	0.56
1:D:335:LEU:CD2	1:D:339:ASN:ND2	2.69	0.56
2:K:2:DG:H5'	5:K:2004:HOH:O	2.06	0.56
1:A:227:VAL:HB	1:A:244:ILE:CG2	2.35	0.56
1:A:312:TYR:CZ	1:A:314:PRO:HG3	2.41	0.56
1:B:854:HIS:HD2	1:B:856:SER:OG	1.89	0.56
1:C:316:VAL:HG13	1:C:420:MET:HE1	1.88	0.56
1:D:339:ASN:O	1:D:343:LYS:CD	2.53	0.56
1:D:811:HIS:HD2	5:D:2168:HOH:O	1.89	0.56
4:G:4:DG:H2''	4:G:5:DA:C8	2.41	0.56
1:A:164:LYS:HZ3	1:A:164:LYS:N	2.04	0.56
1:A:215:ARG:HG2	5:A:2065:HOH:O	2.05	0.56
1:B:67:ASN:O	1:B:71:LYS:HG3	2.06	0.56
1:C:373:ALA:C	1:C:377:TRP:NE1	2.64	0.56
1:C:711:LYS:HG3	1:C:718:ILE:HA	1.86	0.56
1:C:726:HIS:HD2	1:C:735:VAL:O	1.89	0.56
1:D:268:PHE:HB3	1:D:286:TYR:OH	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:473:VAL:O	1:A:478:ARG:NE	2.36	0.56
1:A:592:ASN:OD1	1:A:611:LEU:CD2	2.53	0.56
1:A:778:ILE:HG23	1:A:779:ALA:N	2.21	0.56
1:B:349:VAL:O	1:B:349:VAL:HG12	2.06	0.56
1:B:473:VAL:CG1	1:B:477:GLU:HB3	2.34	0.56
1:C:346:HIS:CE1	1:C:391:ARG:NH2	2.74	0.56
1:C:398:LEU:HD23	1:C:398:LEU:C	2.31	0.56
1:C:631:LYS:O	1:C:634:VAL:HG13	2.05	0.56
1:A:218:GLU:O	1:A:222:GLU:HG3	2.06	0.56
1:A:580:GLU:OE2	5:A:2231:HOH:O	2.17	0.56
1:B:281:ILE:CG2	1:B:282:THR:HG23	2.33	0.56
1:B:423:ARG:NE	1:B:781:ASN:ND2	2.53	0.56
1:B:698:TRP:CZ2	1:B:864:LEU:HD21	2.41	0.56
1:C:313:MET:HA	5:C:2156:HOH:O	2.06	0.56
1:C:631:LYS:HE2	1:C:635:MET:SD	2.46	0.56
1:C:829:ARG:HD3	1:C:875:ILE:O	2.05	0.56
1:D:318:LYS:NZ	1:D:800:GLU:OE2	2.34	0.56
1:A:182:PHE:HB2	5:A:2082:HOH:O	2.05	0.55
1:B:324:GLN:CG	1:B:417:PRO:HA	2.36	0.55
1:B:657:PRO:HA	5:B:2292:HOH:O	2.06	0.55
1:C:155:ARG:NH1	1:C:155:ARG:HB3	2.21	0.55
1:D:335:LEU:HD11	1:D:406:ASN:OD1	2.06	0.55
1:C:2:ASN:N	5:C:2003:HOH:O	2.40	0.55
1:C:78:LEU:N	1:C:79:PRO:HD2	2.22	0.55
1:D:213:GLY:O	1:D:217:ILE:HG13	2.06	0.55
1:D:428:ALA:H	1:D:435:GLN:HE22	1.54	0.55
1:A:595:VAL:HG13	5:A:2237:HOH:O	2.06	0.55
1:B:308:TYR:HA	1:B:311:VAL:HG23	1.87	0.55
1:B:332:LYS:N	5:B:2151:HOH:O	2.35	0.55
1:C:549:MET:HE2	1:C:841:VAL:HG21	1.89	0.55
1:C:791:LEU:HD21	1:C:809:LEU:HD22	1.87	0.55
1:D:201:TRP:O	1:D:204:TRP:HB2	2.05	0.55
1:D:220:LEU:HD12	1:D:220:LEU:O	2.05	0.55
1:D:711:LYS:HA	1:D:719:LEU:HD13	1.87	0.55
4:M:6:DT:H2"	4:M:7:DT:OP2	2.07	0.55
1:A:210:ILE:O	1:A:214:VAL:HG23	2.07	0.55
1:B:170:LEU:CD2	1:B:179:LYS:HD3	2.37	0.55
1:B:422:TRP:CD1	1:B:422:TRP:O	2.59	0.55
1:C:205:HIS:C	1:C:207:GLU:H	2.14	0.55
1:C:553:GLU:HG2	1:C:554:VAL:N	2.22	0.55
1:C:614:LYS:HE2	5:C:2137:HOH:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:231:ARG:HG2	1:D:234:ALA:HB2	1.88	0.55
1:D:462:ILE:HG22	1:D:466:ASN:HD21	1.71	0.55
1:A:230:HIS:HE2	1:A:245:GLU:CG	2.19	0.55
1:B:148:GLU:OE2	1:B:749:LEU:HB2	2.05	0.55
1:B:374:LEU:HD12	1:B:374:LEU:N	2.21	0.55
1:B:391:ARG:HB3	1:B:391:ARG:NH1	2.21	0.55
1:C:71:LYS:N	1:C:72:PRO:HD2	2.22	0.55
1:C:272:VAL:O	1:C:415:TRP:HZ3	1.89	0.55
1:C:373:ALA:O	1:C:377:TRP:CD1	2.60	0.55
1:D:342:THR:HA	5:D:2092:HOH:O	2.07	0.55
1:A:105:PHE:HE1	5:A:2093:HOH:O	1.89	0.55
1:A:713:LYS:C	1:A:714:LYS:HG2	2.32	0.55
1:B:99:ARG:HG2	1:B:103:PHE:CE2	2.42	0.55
1:B:669:GLN:HG2	1:B:672:GLN:HE21	1.71	0.55
1:C:230:HIS:H	1:C:230:HIS:CD2	2.24	0.55
1:C:432:PHE:CE1	1:C:440:THR:HG23	2.42	0.55
1:D:59:LEU:HA	1:D:64:VAL:HG22	1.87	0.55
1:D:150:ARG:HG3	1:D:201:TRP:NE1	2.20	0.55
1:A:179:LYS:HD3	5:A:2081:HOH:O	2.06	0.55
1:A:551:ARG:NH2	1:A:836:TYR:O	2.39	0.55
1:A:633:SER:HB3	1:A:646:PHE:CD1	2.42	0.55
1:B:158:GLU:HA	1:B:195:LEU:HD13	1.89	0.55
1:B:676:TYR:O	1:B:679:LYS:HB3	2.06	0.55
1:D:278:TRP:CD2	1:D:284:GLY:HA3	2.42	0.55
1:D:428:ALA:H	1:D:435:GLN:NE2	2.04	0.55
1:D:448:LYS:HE3	5:D:2087:HOH:O	2.07	0.55
2:K:2:DG:C2'	2:K:3:DG:C8	2.89	0.55
1:A:169:GLN:HB2	1:A:182:PHE:CZ	2.42	0.55
1:A:448:LYS:HG2	5:A:2287:HOH:O	2.07	0.55
1:B:126:LEU:HA	5:B:2083:HOH:O	2.05	0.55
1:B:157:LEU:HG	1:B:158:GLU:N	2.21	0.55
1:B:158:GLU:HB3	1:B:190:MET:CE	2.36	0.55
1:B:711:LYS:HB3	1:B:717:GLU:O	2.07	0.55
1:C:324:GLN:HE21	1:C:418:TYR:N	2.05	0.55
1:D:420:MET:HA	1:D:425:ARG:O	2.07	0.55
1:A:154:ILE:HA	1:A:158:GLU:HB2	1.88	0.55
1:A:313:MET:HB2	1:A:316:VAL:CG2	2.37	0.55
1:B:99:ARG:HB3	1:B:103:PHE:CD2	2.42	0.55
1:B:159:ALA:O	1:B:163:LYS:HB2	2.06	0.55
1:B:315:GLU:OE2	1:B:318:LYS:HD3	2.07	0.55
1:C:16:LEU:HD13	1:C:38:ALA:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:422:TRP:CE2	1:C:423:ARG:HD2	2.41	0.55
1:C:553:GLU:HG2	1:C:554:VAL:H	1.72	0.55
1:C:882:PHE:O	1:C:883:ALA:CB	2.54	0.55
1:D:158:GLU:OE1	1:D:195:LEU:HD22	2.07	0.55
1:D:327:ALA:HB3	1:D:448:LYS:HE2	1.88	0.55
1:D:552:ASP:OD1	1:D:555:GLY:N	2.38	0.55
1:D:790:HIS:CD2	1:D:832:MET:HE2	2.42	0.55
2:K:4:DA:H2"	2:K:5:DA:OP2	2.07	0.55
1:A:110:LYS:HE2	1:A:112:GLU:OE1	2.07	0.55
1:B:632:ARG:H	1:B:632:ARG:HD3	1.71	0.55
1:B:791:LEU:HD23	1:B:791:LEU:C	2.32	0.55
1:C:120:LYS:HG3	1:C:752:LEU:HD21	1.89	0.55
1:D:14:ILE:HG22	5:D:2014:HOH:O	2.06	0.55
1:D:69:ALA:HA	1:D:257:ARG:HD2	1.89	0.55
1:D:84:ARG:HH11	1:D:84:ARG:CG	2.19	0.55
2:K:6:DT:H2"	2:K:7:DC:C5	2.42	0.55
1:A:142:GLY:CA	5:A:2072:HOH:O	2.55	0.54
1:B:489:ILE:CG2	1:B:518:TYR:CD1	2.88	0.54
1:B:567:VAL:HG22	1:B:880:PHE:CG	2.43	0.54
1:C:36:GLN:OE1	1:C:36:GLN:HA	2.05	0.54
1:C:434:PRO:HG3	1:C:444:LEU:HD13	1.89	0.54
1:C:711:LYS:HG2	1:C:718:ILE:CA	2.36	0.54
1:C:754:GLN:HG2	5:C:2160:HOH:O	2.05	0.54
1:D:227:VAL:HB	1:D:244:ILE:HG23	1.89	0.54
1:A:629:VAL:CG1	1:A:677:MET:HE3	2.32	0.54
1:C:352:ILE:C	5:C:2093:HOH:O	2.50	0.54
1:D:150:ARG:HA	1:D:201:TRP:CZ2	2.42	0.54
1:D:551:ARG:NH1	1:D:872:LEU:CD1	2.71	0.54
1:A:176:HIS:C	1:A:176:HIS:ND1	2.66	0.54
1:A:804:ILE:HG12	1:A:820:ASP:HB3	1.89	0.54
1:B:12:SER:HA	5:B:2033:HOH:O	2.06	0.54
1:B:80:LYS:HD3	1:B:223:SER:O	2.08	0.54
1:B:418:TYR:C	1:B:419:ASN:HD22	2.15	0.54
1:B:804:ILE:HG12	1:B:820:ASP:HB3	1.89	0.54
1:C:656:GLN:HB3	1:C:657:PRO:HD3	1.89	0.54
1:C:676:TYR:O	1:C:679:LYS:HB3	2.08	0.54
1:D:21:PHE:C	1:D:23:THR:N	2.63	0.54
1:D:713:LYS:HA	1:D:713:LYS:NZ	2.22	0.54
1:D:794:THR:HG21	1:D:828:VAL:HG12	1.89	0.54
1:D:873:ARG:NH1	1:D:876:LEU:HD11	2.23	0.54
1:A:204:TRP:HZ2	5:A:2067:HOH:O	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:HIS:CD2	1:A:230:HIS:H	2.25	0.54
1:A:571:TYR:CD1	1:A:631:LYS:HA	2.42	0.54
1:A:826:LYS:HG2	1:A:830:GLU:OE2	2.08	0.54
1:B:272:VAL:CG1	1:B:411:HIS:HD2	2.20	0.54
1:C:395:ARG:O	1:C:399:GLU:HG3	2.07	0.54
1:C:475:PHE:N	1:C:476:PRO:HD2	2.22	0.54
1:C:846:TYR:HA	1:C:849:PHE:CE1	2.43	0.54
1:D:217:ILE:O	1:D:221:ILE:HG13	2.07	0.54
1:A:428:ALA:HB3	1:A:433:ASN:HD22	1.72	0.54
1:A:726:HIS:HB2	1:A:736:TRP:CD1	2.43	0.54
1:B:73:LEU:CD1	1:B:254:ILE:HG13	2.38	0.54
1:B:710:VAL:HG12	1:B:720:ARG:HB3	1.89	0.54
1:C:702:ALA:O	1:C:706:LEU:HD12	2.07	0.54
1:C:790:HIS:NE2	1:C:832:MET:HB2	2.22	0.54
1:D:169:GLN:O	1:D:173:ARG:HG2	2.07	0.54
1:D:790:HIS:NE2	1:D:832:MET:HE2	2.23	0.54
1:A:112:GLU:CD	1:A:112:GLU:N	2.64	0.54
1:B:155:ARG:HB3	5:B:2088:HOH:O	2.07	0.54
1:C:47:GLY:O	1:C:50:ARG:HB3	2.08	0.54
1:C:57:ARG:HD2	5:C:2041:HOH:O	2.07	0.54
1:C:84:ARG:HH21	1:C:222:GLU:CD	2.16	0.54
1:D:56:GLU:OE1	1:D:60:LYS:HB2	2.06	0.54
1:D:56:GLU:OE2	1:D:57:ARG:N	2.41	0.54
1:D:84:ARG:HD3	1:D:84:ARG:O	2.06	0.54
1:D:134:VAL:HA	5:D:2038:HOH:O	2.06	0.54
1:A:14:ILE:HG23	1:A:288:ALA:CB	2.37	0.54
1:A:71:LYS:N	1:A:72:PRO:CD	2.71	0.54
1:A:468:ALA:HB3	5:A:2175:HOH:O	2.08	0.54
1:A:881:ALA:CA	5:A:2310:HOH:O	2.55	0.54
1:B:130:ASP:O	1:B:132:THR:HG23	2.07	0.54
1:B:221:ILE:HG12	1:B:227:VAL:HG23	1.89	0.54
1:B:264:ILE:O	1:B:264:ILE:HG22	2.08	0.54
1:D:108:GLU:HG3	5:D:2034:HOH:O	2.07	0.54
1:D:869:ASN:N	1:D:869:ASN:HD22	2.06	0.54
2:E:17:DG:H2"	2:E:18:DC:C6	2.41	0.54
1:A:6:ILE:HB	1:A:48:GLU:OE2	2.08	0.54
1:A:374:LEU:C	1:A:376:ALA:H	2.15	0.54
1:A:814:PHE:N	1:A:814:PHE:CD1	2.75	0.54
1:B:18:ALA:O	1:B:19:ILE:HG12	2.08	0.54
1:B:432:PHE:CZ	1:B:444:LEU:HD21	2.43	0.54
1:B:720:ARG:HH11	1:B:720:ARG:CG	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:ILE:O	1:C:21:PHE:N	2.39	0.54
1:C:229:LEU:HD11	1:C:242:GLU:HG2	1.89	0.54
1:D:80:LYS:CD	1:D:224:THR:HG22	2.37	0.54
1:A:308:TYR:O	1:A:311:VAL:HG23	2.08	0.54
1:A:486:HIS:HD2	1:A:518:TYR:OH	1.90	0.54
1:B:391:ARG:HH11	1:B:391:ARG:CB	2.20	0.54
1:B:404:GLN:HG2	1:B:432:PHE:HB3	1.90	0.54
1:B:631:LYS:HD3	1:B:632:ARG:HH11	1.72	0.54
1:B:644:PHE:CE2	2:H:9:DA:C4	2.95	0.54
1:C:324:GLN:HE21	1:C:417:PRO:HA	1.73	0.54
1:D:446:LEU:HD12	1:D:817:ILE:HG22	1.90	0.54
1:D:814:PHE:CE1	1:D:883:ALA:HB2	2.43	0.54
1:D:824:LEU:O	1:D:828:VAL:HG13	2.08	0.54
3:I:4:G:H5'	5:I:2003:HOH:O	2.07	0.54
1:A:341:ILE:HD12	1:A:348:PRO:HB3	1.90	0.54
1:C:84:ARG:C	1:C:84:ARG:HD3	2.33	0.54
1:C:825:PHE:CZ	1:C:829:ARG:NH2	2.76	0.54
1:D:230:HIS:H	1:D:230:HIS:CD2	2.26	0.54
3:F:6:G:N7	5:F:2013:HOH:O	2.34	0.54
1:A:422:TRP:O	1:A:422:TRP:CD1	2.62	0.53
1:A:623:TYR:HD1	1:A:663:LYS:HE3	1.72	0.53
1:A:669:GLN:HE21	1:A:669:GLN:CA	2.21	0.53
1:B:81:MET:HE1	1:B:219:MET:CB	2.37	0.53
1:B:115:ALA:O	1:B:119:ILE:HG12	2.09	0.53
1:B:401:MET:HE3	1:B:432:PHE:HD1	1.71	0.53
1:C:646:PHE:HD1	1:C:649:GLN:OE1	1.90	0.53
1:D:16:LEU:HD22	1:D:38:ALA:HA	1.90	0.53
1:A:553:GLU:H	1:A:553:GLU:CD	2.16	0.53
1:B:56:GLU:OE1	1:B:56:GLU:C	2.51	0.53
1:B:99:ARG:HD2	1:B:99:ARG:N	2.23	0.53
1:B:116:TYR:CD1	1:B:746:ARG:NH2	2.76	0.53
1:B:215:ARG:CG	1:B:219:MET:HE2	2.25	0.53
1:B:331:ASN:C	5:B:2150:HOH:O	2.52	0.53
1:B:754:GLN:HG3	5:B:2065:HOH:O	2.07	0.53
1:C:92:VAL:CG1	1:C:99:ARG:HG3	2.38	0.53
1:C:473:VAL:HG13	1:C:477:GLU:HB2	1.89	0.53
1:C:582:LEU:HB3	1:C:621:LEU:HD21	1.90	0.53
1:D:58:GLN:HB3	5:D:2026:HOH:O	2.09	0.53
1:A:63:GLU:HA	5:A:2057:HOH:O	2.08	0.53
1:A:80:LYS:HE2	1:A:223:SER:O	2.08	0.53
1:A:109:ILE:HD12	1:A:109:ILE:H	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:HIS:C	1:A:207:GLU:N	2.64	0.53
1:A:230:HIS:HE2	1:A:245:GLU:CD	2.16	0.53
1:A:842:LEU:O	1:A:845:PHE:HB3	2.08	0.53
1:B:21:PHE:CD1	1:B:21:PHE:O	2.59	0.53
1:B:159:ALA:O	1:B:160:LYS:C	2.52	0.53
1:B:291:ARG:C	1:B:293:PRO:HD3	2.34	0.53
1:B:651:LEU:O	1:B:656:GLN:HB2	2.09	0.53
1:C:120:LYS:HZ2	1:C:752:LEU:CD1	2.20	0.53
1:C:570:ILE:HA	1:C:573:ILE:CG2	2.37	0.53
1:D:162:PHE:HB2	5:D:2045:HOH:O	2.07	0.53
1:A:161:HIS:O	1:A:164:LYS:HG2	2.08	0.53
1:A:243:THR:C	1:A:244:ILE:HD13	2.34	0.53
1:B:7:ALA:HB1	5:B:2057:HOH:O	2.09	0.53
1:B:50:ARG:HH21	1:B:267:MET:HG2	1.72	0.53
1:B:396:ILE:HB	5:B:2174:HOH:O	2.08	0.53
1:B:416:PHE:HD1	1:B:430:SER:OG	1.90	0.53
1:B:552:ASP:O	1:B:870:LEU:HD12	2.08	0.53
1:B:748:ASN:HD22	1:B:752:LEU:N	2.05	0.53
1:C:551:ARG:HE	1:C:872:LEU:HD21	1.72	0.53
1:D:32:LEU:N	1:D:32:LEU:CD1	2.71	0.53
1:D:418:TYR:C	1:D:419:ASN:HD22	2.16	0.53
1:A:100:PRO:HG2	1:A:103:PHE:CB	2.35	0.53
1:B:278:TRP:CD2	1:B:284:GLY:HA3	2.44	0.53
1:B:324:GLN:HE21	1:B:418:TYR:N	2.06	0.53
1:C:182:PHE:O	1:C:185:VAL:HG23	2.09	0.53
1:C:205:HIS:O	1:C:207:GLU:N	2.41	0.53
1:A:141:ILE:O	1:A:145:ILE:HG12	2.08	0.53
1:A:652:GLU:HA	1:A:656:GLN:HB2	1.91	0.53
1:B:155:ARG:O	1:B:155:ARG:HG2	2.07	0.53
1:B:162:PHE:CE1	1:B:190:MET:SD	3.02	0.53
1:B:726:HIS:CD2	1:B:736:TRP:NE1	2.76	0.53
1:B:797:TRP:CH2	1:B:801:LYS:HG3	2.42	0.53
1:B:840:ASP:O	1:B:842:LEU:N	2.42	0.53
1:C:64:VAL:HG21	1:C:127:THR:HG21	1.90	0.53
1:D:37:LEU:HD13	5:D:2014:HOH:O	2.09	0.53
1:D:151:PHE:CD1	1:D:183:MET:HB3	2.44	0.53
1:D:379:ARG:HA	5:D:2109:HOH:O	2.09	0.53
1:D:414:ILE:HA	5:D:2115:HOH:O	2.08	0.53
1:D:730:PRO:CD	1:D:786:GLN:HE22	2.21	0.53
1:D:743:ILE:HG13	1:D:766:ASP:O	2.08	0.53
2:E:7:DC:C4	2:E:8:DG:N7	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:846:TYR:HD2	1:A:849:PHE:CZ	2.27	0.53
1:B:346:HIS:HA	1:B:395:ARG:NH1	2.23	0.53
1:B:712:ASP:OD2	1:B:714:LYS:HB2	2.09	0.53
1:C:164:LYS:HE2	1:C:164:LYS:CA	2.39	0.53
1:C:227:VAL:CG1	1:C:244:ILE:HG22	2.38	0.53
1:C:544:GLN:HG2	1:C:561:LEU:HD13	1.90	0.53
1:D:32:LEU:CD1	1:D:32:LEU:H	2.22	0.53
1:A:108:GLU:OE1	1:A:108:GLU:HA	2.09	0.53
1:A:162:PHE:HB3	1:A:190:MET:HE1	1.91	0.53
1:A:170:LEU:C	1:A:170:LEU:HD23	2.33	0.53
1:C:146:GLU:HB2	1:C:204:TRP:CZ3	2.43	0.53
1:C:180:LYS:HG2	1:C:184:GLN:OE1	2.08	0.53
1:D:319:ALA:HB1	1:D:792:ARG:HG2	1.91	0.53
1:D:868:GLY:C	1:D:869:ASN:HD22	2.16	0.53
4:P:4:DG:H2''	4:P:5:DA:H8	1.71	0.53
1:A:114:VAL:HG13	1:A:145:ILE:HD12	1.91	0.53
1:A:308:TYR:CA	1:A:311:VAL:HG23	2.39	0.53
1:B:537:ASP:N	1:B:882:PHE:HD2	2.07	0.53
1:B:719:LEU:N	1:B:719:LEU:HD12	2.23	0.53
1:C:5:ASN:ND2	1:C:5:ASN:C	2.67	0.53
1:D:36:GLN:HG3	1:D:273:VAL:CG2	2.38	0.53
1:D:201:TRP:HA	1:D:204:TRP:CD1	2.44	0.53
2:K:15:DC:H2''	2:K:16:DC:O5'	2.08	0.53
1:A:19:ILE:O	1:A:21:PHE:N	2.39	0.53
1:A:163:LYS:HB3	1:A:164:LYS:HZ3	1.72	0.53
1:B:44:TYR:OH	1:B:292:ARG:HB3	2.08	0.53
1:C:35:GLU:OE2	1:C:272:VAL:HG11	2.09	0.53
1:C:416:PHE:CE2	1:C:434:PRO:HD3	2.44	0.53
1:C:854:HIS:HD2	1:C:856:SER:OG	1.92	0.53
1:D:412:LYS:N	5:D:2114:HOH:O	2.36	0.53
1:A:82:ILE:HG21	5:A:2068:HOH:O	2.10	0.52
1:A:134:VAL:CG2	1:A:244:ILE:HD11	2.39	0.52
1:A:217:ILE:HG22	1:A:221:ILE:CD1	2.38	0.52
1:A:281:ILE:HD11	1:A:308:TYR:C	2.34	0.52
1:A:656:GLN:HB3	1:A:657:PRO:CD	2.39	0.52
1:B:393:SER:HB3	5:H:2017:HOH:O	2.09	0.52
1:B:551:ARG:HB2	1:B:868:GLY:H	1.72	0.52
1:B:614:LYS:HB3	5:B:2261:HOH:O	2.08	0.52
1:C:68:ALA:CB	1:C:261:LEU:HD21	2.39	0.52
1:D:71:LYS:N	1:D:72:PRO:HD2	2.25	0.52
1:A:105:PHE:CE1	1:A:208:ASP:HB3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:395:ARG:HG3	1:A:395:ARG:O	2.09	0.52
1:A:423:ARG:NE	1:A:781:ASN:ND2	2.56	0.52
1:B:39:LEU:HD13	1:B:272:VAL:CG2	2.39	0.52
1:B:105:PHE:HB3	1:B:204:TRP:CZ2	2.45	0.52
1:B:231:ARG:HD2	1:B:240:ASP:OD1	2.09	0.52
1:B:257:ARG:HB2	5:B:2123:HOH:O	2.09	0.52
1:C:16:LEU:HD13	1:C:38:ALA:CB	2.39	0.52
1:C:120:LYS:HG3	1:C:752:LEU:CD2	2.39	0.52
1:D:85:ILE:HG22	1:D:89:PHE:CE1	2.45	0.52
1:D:109:ILE:HG12	5:D:2041:HOH:O	2.09	0.52
1:D:411:HIS:HB3	5:D:2114:HOH:O	2.08	0.52
1:D:623:TYR:CD1	1:D:663:LYS:HE2	2.43	0.52
2:E:4:DA:H2''	2:E:5:DA:N7	2.24	0.52
1:A:428:ALA:N	1:A:435:GLN:NE2	2.48	0.52
1:A:632:ARG:HH11	1:A:632:ARG:CB	2.20	0.52
1:B:116:TYR:HE2	1:B:752:LEU:HD22	1.74	0.52
1:B:168:GLU:OE1	1:B:169:GLN:N	2.33	0.52
1:B:551:ARG:N	5:B:2240:HOH:O	2.41	0.52
1:C:424:GLY:HA3	5:C:2102:HOH:O	2.09	0.52
1:D:16:LEU:HD13	1:D:38:ALA:CB	2.38	0.52
1:D:81:MET:HE1	1:D:220:LEU:CB	2.39	0.52
1:D:92:VAL:HG21	5:D:2029:HOH:O	2.09	0.52
1:D:353:PRO:HD3	5:D:2098:HOH:O	2.10	0.52
1:D:574:VAL:O	1:D:578:VAL:HG23	2.09	0.52
1:D:588:ASN:N	1:D:588:ASN:HD22	2.06	0.52
1:D:710:VAL:HG21	1:D:854:HIS:CD2	2.44	0.52
1:A:106:LEU:HD21	5:A:2094:HOH:O	2.09	0.52
1:A:312:TYR:HB3	5:A:2131:HOH:O	2.10	0.52
1:A:372:GLU:N	5:A:2145:HOH:O	2.41	0.52
1:B:63:GLU:OE1	2:H:18:DC:H2''	2.09	0.52
1:B:74:ILE:HG22	1:B:755:PHE:HE2	1.74	0.52
1:C:556:GLY:O	1:C:561:LEU:HB2	2.09	0.52
1:D:158:GLU:CD	1:D:195:LEU:HB3	2.35	0.52
1:A:122:THR:HG22	1:A:126:LEU:CD1	2.35	0.52
1:A:347:CYS:CB	1:A:350:GLU:CG	2.87	0.52
1:B:9:ASN:HA	1:B:12:SER:HB3	1.91	0.52
1:B:881:ALA:O	1:B:883:ALA:N	2.42	0.52
1:C:756:ARG:HG2	5:C:2161:HOH:O	2.09	0.52
1:D:278:TRP:CE3	1:D:284:GLY:HA3	2.45	0.52
1:A:555:GLY:O	1:A:559:VAL:HG22	2.08	0.52
1:B:595:VAL:HG12	1:B:596:THR:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:163:LYS:C	1:C:164:LYS:HE2	2.34	0.52
1:C:792:ARG:O	1:C:796:VAL:HG23	2.10	0.52
1:D:806:SER:O	1:D:816:THR:CG2	2.51	0.52
1:A:146:GLU:HG3	1:A:204:TRP:CE3	2.44	0.52
1:A:677:MET:O	1:A:681:ILE:HG13	2.10	0.52
1:A:743:ILE:HG22	1:A:743:ILE:O	2.10	0.52
1:B:557:ARG:NH1	5:B:2244:HOH:O	2.43	0.52
1:C:752:LEU:HD12	1:C:752:LEU:N	2.25	0.52
1:D:15:GLU:HB2	1:D:18:ALA:O	2.09	0.52
1:D:36:GLN:HG2	5:D:2021:HOH:O	2.10	0.52
1:D:59:LEU:CD2	1:D:64:VAL:HG22	2.39	0.52
1:D:177:VAL:HG12	1:D:178:TYR:HD2	1.75	0.52
1:D:220:LEU:HD21	1:D:226:MET:HE2	1.92	0.52
1:D:264:ILE:HB	5:D:2068:HOH:O	2.10	0.52
1:D:545:HIS:O	1:D:549:MET:HG2	2.10	0.52
1:A:243:THR:O	1:A:244:ILE:HD13	2.09	0.52
1:B:203:SER:O	1:B:205:HIS:N	2.43	0.52
1:C:814:PHE:N	1:C:814:PHE:CD1	2.78	0.52
1:D:651:LEU:O	1:D:651:LEU:HD13	2.10	0.52
1:D:861:MET:HE3	1:D:862:PRO:CD	2.39	0.52
2:E:2:DG:H2''	2:E:3:DG:C8	2.42	0.52
2:N:11:DA:H2''	2:N:12:DT:O5'	2.10	0.52
1:A:692:ALA:O	1:A:696:MET:HG3	2.09	0.52
1:B:146:GLU:HG3	1:B:204:TRP:CE3	2.45	0.52
1:B:232:GLN:HG2	1:B:241:SER:O	2.10	0.52
1:D:347:CYS:O	1:D:349:VAL:N	2.43	0.52
1:A:50:ARG:NH1	1:A:50:ARG:HG2	2.24	0.52
1:A:551:ARG:CZ	1:A:872:LEU:HD11	2.40	0.52
1:B:99:ARG:HB3	1:B:103:PHE:HD2	1.74	0.52
1:B:158:GLU:CA	1:B:195:LEU:HD22	2.37	0.52
1:B:754:GLN:HE22	3:I:1:G:H4'	1.75	0.52
1:D:215:ARG:CG	5:D:2030:HOH:O	2.58	0.52
1:D:743:ILE:HD12	1:D:766:ASP:HB2	1.92	0.52
1:A:704:LYS:HZ2	1:A:860:LYS:HD2	1.74	0.51
1:A:777:GLY:O	1:A:781:ASN:HB2	2.11	0.51
1:B:14:ILE:O	1:B:14:ILE:HG22	2.11	0.51
1:B:185:VAL:HG23	1:B:186:VAL:N	2.24	0.51
1:B:374:LEU:H	1:B:374:LEU:CD1	2.23	0.51
1:C:19:ILE:HG23	1:C:20:PRO:HD2	1.91	0.51
1:C:313:MET:HE3	1:C:317:TYR:CE2	2.45	0.51
1:D:422:TRP:CD1	1:D:422:TRP:O	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:LEU:HD13	1:D:651:LEU:C	2.35	0.51
1:B:341:ILE:HG13	1:B:348:PRO:HB3	1.91	0.51
1:B:642:LYS:O	1:B:643:GLU:C	2.53	0.51
1:D:882:PHE:O	1:D:883:ALA:CB	2.58	0.51
2:H:6:DT:H2"	2:H:7:DC:C5	2.44	0.51
1:A:50:ARG:CZ	1:A:267:MET:HE3	2.40	0.51
1:A:105:PHE:HA	5:A:2067:HOH:O	2.11	0.51
1:A:216:CYS:HA	1:A:219:MET:HE3	1.93	0.51
1:A:706:LEU:HD21	1:A:849:PHE:HB2	1.91	0.51
1:C:329:LYS:HG3	1:C:445:THR:HG23	1.92	0.51
1:C:425:ARG:HH21	1:C:784:HIS:CG	2.28	0.51
1:C:572:GLY:O	1:C:576:LYS:HG3	2.11	0.51
1:D:318:LYS:O	1:D:322:ILE:HG12	2.11	0.51
1:D:560:ASN:OD1	1:D:568:GLN:HB2	2.09	0.51
1:D:721:LYS:HG2	1:D:722:ARG:N	2.24	0.51
1:A:65:ALA:CB	1:A:120:LYS:HG2	2.39	0.51
1:A:143:ARG:NH1	5:A:2073:HOH:O	2.42	0.51
1:A:228:SER:HA	5:A:2100:HOH:O	2.09	0.51
1:A:824:LEU:O	1:A:828:VAL:HG23	2.09	0.51
1:C:159:ALA:O	1:C:160:LYS:C	2.52	0.51
1:C:546:PHE:CE1	1:C:783:VAL:HG13	2.46	0.51
1:D:89:PHE:CD2	1:D:103:PHE:HE1	2.28	0.51
1:D:199:GLU:HG3	1:D:201:TRP:HD1	1.75	0.51
1:A:183:MET:HB2	5:A:2084:HOH:O	2.10	0.51
1:A:386:ARG:HG3	3:F:4:G:H5"	1.93	0.51
1:A:517:GLU:HG3	1:A:532:LEU:HB2	1.92	0.51
1:B:253:ALA:HB1	5:B:2001:HOH:O	2.10	0.51
1:B:401:MET:HE1	1:B:432:PHE:HA	1.91	0.51
1:B:747:LEU:HD13	5:B:2316:HOH:O	2.10	0.51
1:D:556:GLY:O	1:D:561:LEU:HB2	2.10	0.51
1:D:655:ILE:HD12	1:D:674:ALA:HB2	1.92	0.51
1:A:47:GLY:HA3	1:A:265:SER:O	2.10	0.51
1:A:142:GLY:N	5:A:2072:HOH:O	2.43	0.51
1:B:227:VAL:HB	1:B:244:ILE:CG2	2.41	0.51
1:B:308:TYR:HA	1:B:311:VAL:CG2	2.41	0.51
1:B:840:ASP:O	1:B:841:VAL:C	2.54	0.51
1:C:308:TYR:HA	1:C:311:VAL:HG23	1.93	0.51
1:C:480:LYS:O	1:C:484:GLU:HG3	2.11	0.51
1:C:651:LEU:HD13	1:C:651:LEU:C	2.35	0.51
1:C:743:ILE:HD12	1:C:766:ASP:HB3	1.92	0.51
1:D:19:ILE:HG23	1:D:20:PRO:CD	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:829:ARG:HD3	1:D:875:ILE:CG2	2.40	0.51
1:B:53:LYS:O	1:B:56:GLU:HB3	2.11	0.51
1:B:92:VAL:HG12	1:B:99:ARG:HG3	1.93	0.51
1:C:25:ALA:HA	1:C:29:GLY:O	2.11	0.51
1:C:275:PRO:HB2	1:C:324:GLN:HG2	1.93	0.51
1:C:828:VAL:O	1:C:831:THR:HG22	2.11	0.51
1:D:2:ASN:HB2	5:D:2002:HOH:O	2.10	0.51
1:D:153:ARG:NH2	1:D:201:TRP:NE1	2.52	0.51
1:D:490:MET:HE1	1:D:522:GLN:HG3	1.93	0.51
1:D:801:LYS:C	1:D:801:LYS:HD3	2.36	0.51
1:D:814:PHE:CE1	1:D:883:ALA:CB	2.92	0.51
1:D:871:ASN:HD21	1:D:873:ARG:HB2	1.75	0.51
2:K:6:DT:H2''	2:K:7:DC:OP2	2.10	0.51
1:A:860:LYS:O	1:A:862:PRO:HD3	2.10	0.51
1:B:178:TYR:CD1	1:B:178:TYR:N	2.77	0.51
1:B:400:PHE:CE1	1:B:431:MET:HE2	2.46	0.51
1:C:120:LYS:CD	1:C:752:LEU:HD11	2.41	0.51
1:C:473:VAL:CG1	1:C:477:GLU:HB2	2.41	0.51
1:C:730:PRO:HD2	1:C:786:GLN:NE2	2.25	0.51
1:D:25:ALA:HA	1:D:29:GLY:O	2.11	0.51
1:D:78:LEU:N	1:D:79:PRO:HD2	2.25	0.51
1:D:275:PRO:HG2	1:D:324:GLN:HG2	1.92	0.51
1:D:454:LYS:HG3	1:D:455:GLU:N	2.25	0.51
1:A:208:ASP:HA	5:A:2093:HOH:O	2.10	0.51
1:B:726:HIS:HD2	1:B:736:TRP:CE2	2.28	0.51
1:C:191:LEU:HD23	1:C:195:LEU:O	2.11	0.51
1:C:744:GLN:HB3	1:C:756:ARG:HB3	1.92	0.51
1:D:47:GLY:HA3	1:D:265:SER:O	2.11	0.51
1:D:272:VAL:HG12	1:D:272:VAL:O	2.11	0.51
1:D:623:TYR:CA	1:D:666:MET:HE2	2.41	0.51
1:D:633:SER:CA	1:D:649:GLN:HE22	2.14	0.51
1:D:713:LYS:HA	1:D:713:LYS:HZ3	1.75	0.51
1:D:882:PHE:CD1	1:D:882:PHE:N	2.71	0.51
4:M:4:DG:H2''	4:M:5:DA:C8	2.46	0.51
1:A:433:ASN:C	1:A:433:ASN:OD1	2.54	0.51
1:A:720:ARG:HD2	1:A:852:GLN:O	2.10	0.51
1:B:166:VAL:C	1:B:168:GLU:OE1	2.54	0.51
1:B:423:ARG:NH2	2:H:12:DT:O4'	2.44	0.51
1:B:648:GLN:O	1:B:652:GLU:HG2	2.11	0.51
1:C:59:LEU:HA	1:C:64:VAL:CG2	2.41	0.51
1:C:199:GLU:HG2	1:C:199:GLU:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:642:LYS:O	1:C:643:GLU:C	2.51	0.51
1:C:751:PHE:HB3	1:C:752:LEU:CD1	2.39	0.51
1:D:242:GLU:HG3	5:D:2060:HOH:O	2.11	0.51
1:D:281:ILE:CG2	1:D:282:THR:HG23	2.30	0.51
1:A:230:HIS:CD2	1:A:232:GLN:HE22	2.29	0.50
1:A:457:TYR:CE2	1:A:461:LYS:HD3	2.45	0.50
1:B:540:CYS:HB3	5:B:2238:HOH:O	2.11	0.50
1:B:600:GLU:HG3	5:B:2268:HOH:O	2.11	0.50
1:C:317:TYR:O	1:C:321:ASN:ND2	2.42	0.50
1:C:608:LYS:HG3	5:C:2141:HOH:O	2.12	0.50
1:D:335:LEU:HD12	5:D:2090:HOH:O	2.11	0.50
1:D:791:LEU:HG	1:D:809:LEU:HD22	1.93	0.50
1:A:115:ALA:O	1:A:119:ILE:CD1	2.59	0.50
1:B:21:PHE:C	1:B:21:PHE:HD1	2.15	0.50
1:B:25:ALA:HA	1:B:29:GLY:O	2.11	0.50
1:B:562:LEU:HD23	1:B:562:LEU:N	2.26	0.50
1:B:597:VAL:HG22	5:B:2264:HOH:O	2.12	0.50
1:B:729:THR:HB	1:B:789:SER:HB2	1.93	0.50
1:B:737:GLN:HE21	1:B:739:TYR:HE2	1.57	0.50
1:B:797:TRP:CZ2	1:B:801:LYS:HG3	2.46	0.50
1:C:373:ALA:HB3	1:C:374:LEU:HD12	1.93	0.50
1:C:422:TRP:CE3	5:C:2101:HOH:O	2.53	0.50
1:D:84:ARG:HB2	1:D:223:SER:HB3	1.94	0.50
1:D:88:TRP:NE1	5:D:2030:HOH:O	2.43	0.50
1:D:165:ASN:O	1:D:169:GLN:NE2	2.45	0.50
1:D:210:ILE:O	1:D:214:VAL:HG23	2.11	0.50
1:D:546:PHE:CE1	1:D:783:VAL:HG13	2.46	0.50
1:D:553:GLU:HG2	1:D:554:VAL:N	2.26	0.50
1:A:6:ILE:CG2	1:A:10:ASP:CG	2.84	0.50
1:A:160:LYS:NZ	1:A:161:HIS:NE2	2.58	0.50
1:A:272:VAL:HG12	1:A:272:VAL:O	2.11	0.50
1:B:47:GLY:HA3	1:B:265:SER:O	2.12	0.50
1:B:93:LYS:HB2	5:B:2076:HOH:O	2.11	0.50
1:B:215:ARG:HG3	1:B:219:MET:CE	2.26	0.50
1:B:398:LEU:HD23	1:B:439:MET:HE1	1.93	0.50
1:C:57:ARG:HD3	5:K:2015:HOH:O	2.11	0.50
1:C:386:ARG:HD3	3:L:4:G:H5''	1.94	0.50
1:C:663:LYS:HG2	1:C:664:GLY:N	2.24	0.50
1:C:868:GLY:C	1:C:869:ASN:HD22	2.19	0.50
1:D:85:ILE:HG22	1:D:89:PHE:CD1	2.46	0.50
1:D:394:ARG:HD3	3:O:5:C:O3'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:720:ARG:HG2	1:D:720:ARG:NH1	2.26	0.50
1:D:778:ILE:CG2	1:D:779:ALA:N	2.74	0.50
1:D:871:ASN:ND2	1:D:873:ARG:HB2	2.26	0.50
2:E:10:DC:H2''	2:E:11:DA:OP2	2.12	0.50
1:A:236:VAL:HG11	1:A:239:GLN:HG3	1.92	0.50
1:C:11:PHE:CE1	1:C:44:TYR:HB3	2.47	0.50
1:C:610:LYS:O	1:C:611:LEU:C	2.52	0.50
1:D:81:MET:HE2	1:D:220:LEU:HD13	1.93	0.50
1:D:511:PHE:CE2	1:D:515:CYS:SG	3.04	0.50
1:D:659:ILE:HG12	1:D:664:GLY:HA3	1.94	0.50
2:H:9:DA:H5''	5:H:2011:HOH:O	2.10	0.50
1:B:744:GLN:HA	1:B:756:ARG:NH2	2.25	0.50
1:C:269:GLN:HE22	1:C:407:LYS:NZ	2.09	0.50
1:D:814:PHE:HE1	1:D:883:ALA:HB1	1.77	0.50
1:A:21:PHE:CD1	1:A:21:PHE:O	2.64	0.50
1:A:48:GLU:HB2	5:A:2112:HOH:O	2.11	0.50
1:A:50:ARG:HH11	1:A:50:ARG:CG	2.24	0.50
1:A:281:ILE:CG2	1:A:282:THR:HG23	2.39	0.50
1:B:859:ASP:C	1:B:859:ASP:OD1	2.54	0.50
1:C:133:THR:HA	1:C:243:THR:CG2	2.20	0.50
1:C:162:PHE:CD2	1:C:162:PHE:O	2.65	0.50
1:C:495:SER:HB3	5:C:2118:HOH:O	2.12	0.50
1:C:846:TYR:CE1	1:C:850:ALA:HB2	2.47	0.50
1:D:551:ARG:NH1	1:D:872:LEU:HD12	2.27	0.50
1:B:19:ILE:CD1	1:B:20:PRO:HD2	2.42	0.50
1:B:60:LYS:O	1:B:60:LYS:HG2	2.12	0.50
1:B:322:ILE:CD1	1:B:799:HIS:CG	2.95	0.50
1:B:744:GLN:C	1:B:745:THR:HG1	2.19	0.50
1:B:748:ASN:HD22	1:B:752:LEU:H	1.59	0.50
1:B:854:HIS:CG	1:B:855:GLU:N	2.80	0.50
1:C:77:LEU:C	1:C:79:PRO:HD2	2.37	0.50
1:C:809:LEU:O	1:C:810:ILE:HG13	2.12	0.50
1:D:704:LYS:HE3	5:D:2175:HOH:O	2.12	0.50
1:A:313:MET:HB2	1:A:316:VAL:HG23	1.94	0.50
1:B:828:VAL:HB	1:B:883:ALA:HA	1.94	0.50
1:C:568:GLN:HB3	5:C:2130:HOH:O	2.11	0.50
1:C:729:THR:HB	1:C:789:SER:HB2	1.92	0.50
1:D:414:ILE:HG22	5:D:2115:HOH:O	2.12	0.50
1:D:639:TYR:O	2:N:10:DC:H4'	2.12	0.50
1:A:84:ARG:NH2	1:A:222:GLU:CD	2.70	0.50
1:A:625:VAL:C	1:A:626:THR:HG23	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:GLU:H	1:B:112:GLU:CD	2.20	0.50
1:B:427:TYR:HA	1:B:435:GLN:HE22	1.76	0.50
1:B:452:ILE:CG2	1:B:453:GLY:N	2.75	0.50
1:C:164:LYS:N	1:C:164:LYS:CE	2.69	0.50
1:D:422:TRP:CD1	1:D:423:ARG:HG3	2.47	0.50
1:A:19:ILE:HG23	1:A:20:PRO:HD2	1.94	0.49
1:B:81:MET:HE3	1:B:85:ILE:HG13	1.94	0.49
1:B:407:LYS:HG2	1:B:408:PHE:CE2	2.47	0.49
1:C:47:GLY:HA3	1:C:265:SER:O	2.12	0.49
1:C:328:TRP:O	1:C:413:ALA:HA	2.12	0.49
1:D:229:LEU:HD12	1:D:243:THR:O	2.13	0.49
1:D:311:VAL:HG11	1:D:734:PRO:HG3	1.93	0.49
1:D:585:ASP:OD2	1:D:613:THR:CB	2.57	0.49
1:A:56:GLU:OE1	1:A:57:ARG:N	2.45	0.49
1:A:59:LEU:HD23	1:A:64:VAL:CG1	2.43	0.49
1:A:404:GLN:HG2	1:A:432:PHE:HB2	1.92	0.49
1:C:304:ALA:HB1	5:C:2085:HOH:O	2.12	0.49
1:D:180:LYS:HG3	1:D:750:MET:CE	2.43	0.49
1:D:261:LEU:HD12	5:D:2068:HOH:O	2.13	0.49
1:A:65:ALA:HB3	5:A:2057:HOH:O	2.12	0.49
5:A:2233:HOH:O	1:B:683:GLU:HB3	2.12	0.49
1:C:120:LYS:HD2	1:C:752:LEU:HD11	1.94	0.49
1:C:292:ARG:HG3	1:C:292:ARG:O	2.12	0.49
1:C:742:PRO:HD2	5:C:2159:HOH:O	2.11	0.49
1:C:774:GLN:HG2	5:C:2154:HOH:O	2.12	0.49
1:C:819:ALA:C	5:C:2175:HOH:O	2.55	0.49
1:D:322:ILE:HD12	1:D:799:HIS:CD2	2.46	0.49
1:D:576:LYS:O	1:D:580:GLU:HG3	2.11	0.49
1:D:656:GLN:N	1:D:657:PRO:HD2	2.27	0.49
1:A:116:TYR:CZ	1:A:752:LEU:HD22	2.48	0.49
1:A:158:GLU:HA	1:A:195:LEU:HD22	1.94	0.49
1:A:473:VAL:HG22	1:A:474:PRO:HD2	1.93	0.49
1:A:573:ILE:C	1:A:573:ILE:HD12	2.38	0.49
1:A:625:VAL:C	1:A:626:THR:CG2	2.85	0.49
1:A:681:ILE:O	1:A:685:VAL:HG22	2.12	0.49
1:B:19:ILE:HD12	5:B:2046:HOH:O	2.12	0.49
1:B:74:ILE:HG13	1:B:119:ILE:HG21	1.95	0.49
1:B:164:LYS:HD3	5:B:2092:HOH:O	2.12	0.49
1:B:181:ALA:O	1:B:185:VAL:HG13	2.12	0.49
1:B:350:GLU:HG3	5:B:2161:HOH:O	2.12	0.49
1:B:452:ILE:HG23	1:B:453:GLY:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:495:SER:CB	5:B:2218:HOH:O	2.59	0.49
1:B:718:ILE:HG13	5:B:2305:HOH:O	2.12	0.49
1:B:788:GLY:HA2	5:B:2323:HOH:O	2.11	0.49
1:C:78:LEU:N	1:C:79:PRO:CD	2.75	0.49
1:C:101:THR:O	1:C:104:GLN:HG2	2.12	0.49
1:C:203:SER:O	1:C:205:HIS:N	2.46	0.49
1:C:329:LYS:HG3	1:C:445:THR:CG2	2.43	0.49
1:C:392:LYS:O	1:C:396:ILE:HG12	2.12	0.49
1:D:203:SER:O	1:D:205:HIS:N	2.46	0.49
1:A:246:LEU:CD2	1:A:251:ALA:HB2	2.42	0.49
1:A:275:PRO:HD3	1:A:415:TRP:HB2	1.94	0.49
1:A:332:LYS:CE	1:A:410:ASN:ND2	2.76	0.49
1:A:425:ARG:HH21	1:A:784:HIS:HD2	1.57	0.49
1:C:339:ASN:O	1:C:343:LYS:HD2	2.12	0.49
1:C:420:MET:HA	1:C:425:ARG:O	2.13	0.49
1:C:537:ASP:OD1	1:C:813:SER:HB2	2.13	0.49
1:C:602:THR:CG2	1:C:604:GLU:HB2	2.43	0.49
1:D:616:LEU:HD13	1:D:676:TYR:HB2	1.95	0.49
1:D:706:LEU:HD21	1:D:849:PHE:HB2	1.93	0.49
1:A:44:TYR:OH	1:A:292:ARG:HB3	2.12	0.49
1:A:76:THR:C	1:A:79:PRO:HD2	2.38	0.49
1:A:162:PHE:CB	1:A:190:MET:HE1	2.42	0.49
1:A:309:GLU:HG2	1:A:310:ASP:OD1	2.13	0.49
1:A:391:ARG:HH11	1:A:391:ARG:CG	2.25	0.49
1:A:828:VAL:O	1:A:831:THR:HG22	2.12	0.49
1:B:84:ARG:HH11	1:B:84:ARG:CA	2.26	0.49
1:B:215:ARG:C	1:B:219:MET:HE2	2.38	0.49
1:B:401:MET:CE	1:B:432:PHE:HA	2.42	0.49
1:C:437:ASN:ND2	1:C:440:THR:HB	2.27	0.49
4:P:5:DA:H2''	4:P:6:DT:C7	2.43	0.49
1:A:31:ARG:NH2	5:A:2047:HOH:O	2.45	0.49
1:A:270:PRO:HD2	1:A:408:PHE:HE2	1.76	0.49
1:B:231:ARG:NH1	1:B:242:GLU:HB2	2.28	0.49
1:B:312:TYR:CE1	1:B:314:PRO:HG3	2.48	0.49
1:B:532:LEU:CD1	1:B:533:PRO:HD2	2.32	0.49
1:B:705:LEU:HD23	1:B:705:LEU:N	2.24	0.49
1:B:748:ASN:HB3	1:B:752:LEU:C	2.38	0.49
1:C:16:LEU:HD13	1:C:38:ALA:HA	1.95	0.49
1:C:870:LEU:CD2	1:C:872:LEU:HD23	2.37	0.49
1:D:9:ASN:HA	1:D:12:SER:CB	2.42	0.49
2:E:15:DC:H2''	2:E:16:DC:O5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:8:DC:H2''	4:J:9:DC:OP2	2.13	0.49
4:M:1:DG:H1'	4:M:2:DT:C7	2.38	0.49
1:A:82:ILE:O	1:A:86:ASN:CG	2.56	0.49
1:A:180:LYS:HG3	1:A:750:MET:HE1	1.93	0.49
1:A:602:THR:CG2	1:A:604:GLU:HB2	2.42	0.49
1:B:233:ASN:CB	1:B:239:GLN:HB3	2.42	0.49
1:B:322:ILE:HD13	1:B:799:HIS:CD2	2.48	0.49
1:C:316:VAL:HG11	1:C:420:MET:HE1	1.94	0.49
1:C:452:ILE:HG23	1:C:453:GLY:N	2.28	0.49
1:C:546:PHE:CZ	1:C:783:VAL:HG13	2.48	0.49
1:C:727:TRP:HA	1:C:848:GLN:NE2	2.23	0.49
1:C:790:HIS:HD1	1:C:790:HIS:C	2.21	0.49
4:P:5:DA:H2''	4:P:6:DT:H72	1.95	0.49
1:B:141:ILE:O	1:B:145:ILE:HG12	2.13	0.49
1:B:159:ALA:HA	1:B:162:PHE:HB3	1.93	0.49
1:B:278:TRP:HE1	1:B:324:GLN:NE2	2.09	0.49
1:D:155:ARG:CG	1:D:163:LYS:HE2	2.43	0.49
1:D:644:PHE:C	1:D:644:PHE:CD2	2.89	0.49
1:A:569:ASP:CG	1:A:627:ARG:HH21	2.21	0.49
1:B:15:GLU:HB2	1:B:19:ILE:HG12	1.95	0.49
1:B:51:PHE:HE1	1:B:261:LEU:HB3	1.78	0.49
1:B:230:HIS:HB2	5:B:2109:HOH:O	2.11	0.49
1:B:347:CYS:SG	1:B:350:GLU:HG2	2.53	0.49
1:C:446:LEU:HB2	1:C:531:SER:O	2.12	0.49
1:C:463:HIS:CD2	5:C:2111:HOH:O	2.66	0.49
1:D:99:ARG:HD3	1:D:103:PHE:CE2	2.46	0.49
1:D:159:ALA:O	1:D:160:LYS:C	2.56	0.49
1:D:422:TRP:O	1:D:422:TRP:HD1	1.95	0.49
2:N:16:DC:H2''	2:N:17:DG:O5'	2.12	0.49
1:A:85:ILE:HG13	5:A:2060:HOH:O	2.13	0.48
1:B:335:LEU:HD22	1:B:339:ASN:CG	2.37	0.48
1:B:423:ARG:HE	1:B:781:ASN:ND2	2.11	0.48
1:C:778:ILE:CG2	1:C:779:ALA:N	2.76	0.48
1:D:82:ILE:HG21	1:D:112:GLU:OE2	2.13	0.48
1:D:337:VAL:HG12	1:D:341:ILE:HD11	1.94	0.48
1:D:854:HIS:CG	1:D:855:GLU:N	2.81	0.48
1:A:118:THR:HG23	1:A:141:ILE:HD13	1.92	0.48
1:A:229:LEU:HD12	1:A:243:THR:O	2.13	0.48
1:A:275:PRO:HB2	1:A:324:GLN:HG2	1.95	0.48
1:B:78:LEU:N	1:B:79:PRO:HD2	2.27	0.48
1:C:42:GLU:O	1:C:46:MET:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:582:LEU:HD11	1:C:625:VAL:HG21	1.95	0.48
1:D:475:PHE:N	1:D:475:PHE:CD1	2.81	0.48
2:H:17:DG:H2"	2:H:18:DC:C5	2.49	0.48
1:A:571:TYR:CE1	1:A:634:VAL:CG1	2.97	0.48
1:A:842:LEU:HD23	1:A:864:LEU:HD23	1.94	0.48
1:B:60:LYS:HD3	5:B:2062:HOH:O	2.13	0.48
1:B:206:LYS:HE2	1:B:207:GLU:OE2	2.13	0.48
1:B:347:CYS:SG	1:B:350:GLU:CG	3.02	0.48
1:B:401:MET:CE	1:B:432:PHE:CD1	2.94	0.48
1:B:437:ASN:ND2	1:B:440:THR:H	2.11	0.48
1:C:19:ILE:HD12	1:C:20:PRO:HD2	1.94	0.48
1:C:59:LEU:HD23	1:C:64:VAL:CG2	2.43	0.48
1:C:205:HIS:CG	1:C:207:GLU:HG2	2.48	0.48
1:C:633:SER:HB3	1:C:646:PHE:CD1	2.47	0.48
1:D:475:PHE:HE1	1:D:880:PHE:HD1	1.60	0.48
1:A:6:ILE:HG22	1:A:10:ASP:HB3	1.95	0.48
1:A:242:GLU:N	5:A:2106:HOH:O	2.46	0.48
1:B:78:LEU:HD21	1:B:116:TYR:CD1	2.48	0.48
1:B:401:MET:HE1	1:B:432:PHE:CA	2.43	0.48
1:C:609:VAL:O	1:C:672:GLN:NE2	2.46	0.48
1:C:711:LYS:HB2	1:C:711:LYS:HZ2	1.77	0.48
1:D:158:GLU:HB3	1:D:190:MET:HE3	1.94	0.48
1:D:595:VAL:HG12	1:D:596:THR:N	2.27	0.48
1:D:828:VAL:HB	1:D:883:ALA:HA	1.95	0.48
1:A:159:ALA:O	1:A:160:LYS:C	2.56	0.48
1:A:710:VAL:CG1	1:A:720:ARG:HB3	2.42	0.48
1:B:41:HIS:NE2	1:B:45:GLU:OE2	2.46	0.48
1:B:170:LEU:HD22	1:B:179:LYS:HD3	1.96	0.48
1:C:789:SER:O	1:C:793:LYS:HG3	2.14	0.48
1:D:269:GLN:NE2	1:D:404:GLN:OE1	2.40	0.48
1:D:727:TRP:HB3	1:D:845:PHE:CD1	2.48	0.48
2:N:4:DA:N3	5:N:2006:HOH:O	2.35	0.48
1:A:164:LYS:NZ	1:A:164:LYS:N	2.62	0.48
1:A:292:ARG:HG2	1:A:292:ARG:NH1	2.26	0.48
1:A:308:TYR:C	1:A:311:VAL:HG23	2.38	0.48
1:A:315:GLU:OE2	1:A:318:LYS:CD	2.58	0.48
1:A:422:TRP:CD1	1:A:422:TRP:C	2.90	0.48
1:B:230:HIS:CE1	1:B:232:GLN:HE22	2.32	0.48
1:B:463:HIS:HD2	1:B:535:ALA:H	1.62	0.48
1:C:9:ASN:HA	1:C:12:SER:HB3	1.95	0.48
1:C:28:TYR:CE2	1:C:274:PRO:HD2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:LEU:CD1	1:C:244:ILE:HD13	2.44	0.48
1:D:150:ARG:HG3	1:D:201:TRP:CD1	2.49	0.48
1:D:374:LEU:C	1:D:376:ALA:H	2.21	0.48
1:D:423:ARG:HE	1:D:781:ASN:ND2	2.11	0.48
1:A:457:TYR:CZ	1:A:461:LYS:HD3	2.48	0.48
1:A:854:HIS:CG	1:A:855:GLU:N	2.82	0.48
1:B:404:GLN:HG2	1:B:432:PHE:CB	2.43	0.48
1:B:698:TRP:CZ2	1:B:864:LEU:CD2	2.97	0.48
1:C:551:ARG:NE	1:C:872:LEU:HD21	2.28	0.48
1:D:27:HIS:HB3	1:D:28:TYR:CD1	2.48	0.48
1:D:537:ASP:N	1:D:882:PHE:HD2	2.11	0.48
1:A:377:TRP:CG	5:A:2148:HOH:O	2.66	0.48
1:A:563:PRO:HB3	1:A:877:GLU:O	2.14	0.48
1:A:695:ALA:O	1:A:699:LEU:HG	2.14	0.48
1:B:84:ARG:HG3	1:B:223:SER:HB3	1.95	0.48
1:C:816:THR:HG22	1:C:817:ILE:H	1.79	0.48
4:M:5:DA:H2''	4:M:6:DT:C7	2.43	0.48
2:N:15:DC:H2''	2:N:16:DC:O5'	2.14	0.48
1:A:315:GLU:HB3	5:A:2132:HOH:O	2.13	0.48
1:A:324:GLN:NE2	1:A:418:TYR:H	2.12	0.48
1:A:481:PHE:C	1:A:481:PHE:CD2	2.91	0.48
1:B:226:MET:HA	1:B:250:TYR:CD1	2.49	0.48
1:B:401:MET:CE	1:B:432:PHE:CB	2.91	0.48
1:B:829:ARG:CG	1:B:829:ARG:NH1	2.68	0.48
1:C:162:PHE:CB	5:C:2059:HOH:O	2.59	0.48
1:C:329:LYS:HD2	1:C:447:ALA:HA	1.94	0.48
1:C:619:GLN:O	1:C:622:ALA:HB3	2.14	0.48
1:C:789:SER:HA	1:C:792:ARG:NH2	2.29	0.48
2:K:6:DT:H5''	5:K:2009:HOH:O	2.14	0.48
2:K:16:DC:H2''	2:K:17:DG:O5'	2.14	0.48
2:K:17:DG:H2''	2:K:18:DC:C5	2.48	0.48
1:A:82:ILE:O	1:A:86:ASN:ND2	2.47	0.48
1:C:194:GLY:O	1:C:196:LEU:HD23	2.14	0.48
1:C:706:LEU:HD11	1:C:849:PHE:CD2	2.49	0.48
1:D:315:GLU:OE2	1:D:315:GLU:CA	2.50	0.48
1:D:338:ALA:HB1	1:D:439:MET:HE3	1.95	0.48
1:D:829:ARG:HH11	1:D:829:ARG:CG	2.21	0.48
2:N:2:DG:H2''	2:N:3:DG:C8	2.49	0.48
2:N:4:DA:H2''	2:N:5:DA:OP2	2.14	0.48
1:A:78:LEU:N	1:A:79:PRO:CD	2.77	0.47
1:B:305:LEU:HD23	1:B:305:LEU:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:56:GLU:OE1	1:C:57:ARG:CA	2.62	0.47
1:C:278:TRP:N	1:C:321:ASN:OD1	2.45	0.47
1:C:468:ALA:HB2	1:C:511:PHE:HE1	1.74	0.47
1:C:475:PHE:N	5:C:2112:HOH:O	2.28	0.47
1:D:19:ILE:O	1:D:21:PHE:N	2.39	0.47
1:D:53:LYS:O	1:D:56:GLU:HB3	2.13	0.47
1:D:111:PRO:HG2	1:D:112:GLU:OE1	2.14	0.47
2:K:8:DG:OP2	5:K:2011:HOH:O	2.20	0.47
1:A:11:PHE:N	5:A:2034:HOH:O	2.30	0.47
1:A:155:ARG:HH11	1:A:155:ARG:CB	2.18	0.47
1:A:425:ARG:CZ	1:A:784:HIS:CD2	2.97	0.47
1:B:151:PHE:HD1	1:B:183:MET:HB3	1.78	0.47
1:B:218:GLU:O	1:B:222:GLU:HB2	2.14	0.47
1:C:36:GLN:HG2	1:C:273:VAL:HG22	1.95	0.47
1:C:303:LYS:NZ	1:C:740:LYS:HZ1	2.11	0.47
1:C:463:HIS:ND1	1:C:532:LEU:HD21	2.29	0.47
1:C:797:TRP:CZ2	1:C:801:LYS:HG3	2.49	0.47
1:C:828:VAL:C	1:C:831:THR:HG22	2.38	0.47
1:D:19:ILE:CD1	1:D:20:PRO:HD2	2.43	0.47
2:H:16:DC:H2'	2:H:17:DG:O5'	2.14	0.47
1:A:318:LYS:O	1:A:322:ILE:HG13	2.14	0.47
1:B:577:LYS:HD2	5:B:2301:HOH:O	2.13	0.47
1:B:610:LYS:O	1:B:611:LEU:C	2.57	0.47
1:B:711:LYS:CA	1:B:719:LEU:HD13	2.39	0.47
1:C:19:ILE:HG23	1:C:20:PRO:CD	2.44	0.47
1:D:28:TYR:CE2	1:D:274:PRO:HD2	2.49	0.47
1:D:352:ILE:HG12	5:D:2098:HOH:O	2.14	0.47
1:D:693:VAL:O	1:D:697:ASN:ND2	2.34	0.47
2:K:6:DT:C2'	2:K:7:DC:C5	2.96	0.47
4:M:6:DT:C2'	4:M:7:DT:H71	2.41	0.47
1:A:120:LYS:HD2	1:A:752:LEU:HD11	1.96	0.47
1:A:221:ILE:O	5:A:2096:HOH:O	2.20	0.47
1:A:449:GLY:C	1:A:529:ASN:HD21	2.22	0.47
1:B:236:VAL:CG2	1:B:239:GLN:HE21	2.16	0.47
1:B:324:GLN:HE21	1:B:417:PRO:CA	2.27	0.47
1:C:105:PHE:HE2	5:C:2015:HOH:O	1.98	0.47
1:C:488:ASN:HB3	1:C:501:TRP:CE3	2.50	0.47
1:D:2:ASN:N	5:D:2001:HOH:O	2.47	0.47
1:D:179:LYS:HB2	5:D:2052:HOH:O	2.15	0.47
2:H:5:DA:H1'	2:H:6:DT:H5'	1.96	0.47
1:A:6:ILE:HD11	1:A:259:GLY:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:PHE:HD2	1:A:262:ALA:HB2	1.79	0.47
1:A:707:ALA:HB2	1:A:774:GLN:HG2	1.97	0.47
1:D:6:ILE:HG23	1:D:10:ASP:CG	2.40	0.47
1:D:550:LEU:HD23	1:D:550:LEU:HA	1.62	0.47
1:D:623:TYR:CB	1:D:666:MET:HE2	2.44	0.47
1:A:120:LYS:HE2	5:A:2057:HOH:O	2.14	0.47
1:A:532:LEU:HD12	1:A:533:PRO:HD2	1.97	0.47
1:A:556:GLY:O	1:A:561:LEU:HB2	2.14	0.47
1:A:651:LEU:HD13	1:A:651:LEU:C	2.39	0.47
1:A:720:ARG:NH1	1:A:720:ARG:CG	2.69	0.47
1:B:51:PHE:CE1	1:B:261:LEU:HB3	2.50	0.47
1:B:122:THR:HG22	1:B:126:LEU:HD11	1.97	0.47
1:B:720:ARG:NH2	1:B:857:GLN:OE1	2.43	0.47
1:B:804:ILE:HG22	1:B:807:PHE:CZ	2.49	0.47
1:C:57:ARG:HH12	2:K:17:DG:H3'	1.80	0.47
1:C:146:GLU:HG3	1:C:204:TRP:CD2	2.49	0.47
1:C:796:VAL:O	1:C:800:GLU:HG3	2.13	0.47
1:D:229:LEU:HD11	1:D:242:GLU:HG2	1.96	0.47
1:D:354:ALA:HB2	5:D:2100:HOH:O	2.14	0.47
1:D:713:LYS:HZ2	1:D:713:LYS:C	2.22	0.47
1:D:846:TYR:C	1:D:846:TYR:CD1	2.93	0.47
2:N:17:DG:H2''	2:N:18:DC:C5	2.50	0.47
1:A:32:LEU:HD12	1:A:272:VAL:HG11	1.94	0.47
1:A:63:GLU:C	5:A:2057:HOH:O	2.57	0.47
1:A:180:LYS:HA	5:A:2084:HOH:O	2.15	0.47
1:A:705:LEU:CD2	1:A:857:GLN:HB2	2.39	0.47
1:A:745:THR:N	1:A:756:ARG:HD3	2.27	0.47
1:A:779:ALA:O	1:A:780:PRO:C	2.56	0.47
1:B:39:LEU:HA	5:B:2052:HOH:O	2.15	0.47
1:B:810:ILE:O	1:B:811:HIS:HB2	2.14	0.47
1:C:72:PRO:HG3	1:C:257:ARG:HG3	1.97	0.47
1:C:278:TRP:CD2	1:C:284:GLY:HA3	2.49	0.47
1:C:349:VAL:O	1:C:349:VAL:HG12	2.15	0.47
1:C:427:TYR:HA	1:C:435:GLN:HE22	1.79	0.47
1:C:686:SER:HA	1:C:693:VAL:HG21	1.97	0.47
1:C:782:PHE:O	1:C:785:SER:OG	2.23	0.47
1:D:84:ARG:HH11	1:D:84:ARG:HA	1.80	0.47
1:D:324:GLN:HG3	1:D:417:PRO:HA	1.96	0.47
1:D:333:LYS:HD2	1:D:516:PHE:CD1	2.50	0.47
1:D:666:MET:SD	1:D:666:MET:N	2.86	0.47
1:D:829:ARG:HD3	1:D:875:ILE:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:6:DT:H6	2:K:6:DT:H2'	1.57	0.47
1:A:231:ARG:HG2	1:A:234:ALA:HB2	1.95	0.47
1:A:324:GLN:HE21	1:A:417:PRO:CA	2.25	0.47
1:B:278:TRP:NE1	1:B:324:GLN:HE22	2.10	0.47
1:B:327:ALA:HB2	5:B:2195:HOH:O	2.13	0.47
1:B:698:TRP:CH2	1:B:864:LEU:HD21	2.50	0.47
1:B:811:HIS:HD2	5:B:2185:HOH:O	1.97	0.47
1:C:453:GLY:C	1:C:526:LEU:HD22	2.40	0.47
1:C:748:ASN:HD22	1:C:751:PHE:H	1.61	0.47
1:D:134:VAL:O	1:D:134:VAL:HG22	2.14	0.47
1:D:726:HIS:HD2	1:D:727:TRP:H	1.63	0.47
1:A:292:ARG:HH11	1:A:292:ARG:CG	2.26	0.47
1:B:125:CYS:O	1:B:128:SER:CB	2.63	0.47
1:B:458:TYR:CD1	1:B:479:ILE:HD11	2.50	0.47
1:B:713:LYS:HG2	5:H:2003:HOH:O	2.15	0.47
1:D:224:THR:HA	5:D:2028:HOH:O	2.15	0.47
4:M:2:DT:H1'	4:M:3:DC:H5'	1.96	0.47
1:A:30:GLU:HG2	1:A:34:ARG:NH2	2.28	0.47
1:A:134:VAL:HG23	1:A:244:ILE:HD11	1.96	0.47
1:A:332:LYS:HE3	1:A:409:ALA:O	2.14	0.47
1:A:576:LYS:O	1:A:580:GLU:HG3	2.14	0.47
1:A:745:THR:HA	5:A:2271:HOH:O	2.15	0.47
1:B:474:PRO:HG2	1:B:477:GLU:OE2	2.15	0.47
1:B:828:VAL:CG1	1:B:883:ALA:HA	2.45	0.47
1:B:854:HIS:HD2	1:B:856:SER:H	1.55	0.47
1:C:463:HIS:HD2	5:C:2111:HOH:O	1.98	0.47
1:D:154:ILE:HD12	1:D:183:MET:SD	2.54	0.47
1:D:335:LEU:CD1	1:D:339:ASN:HD21	2.28	0.47
1:D:517:GLU:HG3	1:D:532:LEU:HB2	1.97	0.47
1:A:829:ARG:NH1	1:A:878:SER:O	2.48	0.46
1:B:43:SER:HA	1:B:46:MET:HE3	1.97	0.46
1:B:164:LYS:CD	5:B:2092:HOH:O	2.62	0.46
1:B:490:MET:CE	1:B:522:GLN:HG3	2.45	0.46
1:C:16:LEU:CD1	1:C:38:ALA:HB2	2.44	0.46
1:C:333:LYS:C	1:C:516:PHE:HE2	2.24	0.46
1:C:437:ASN:HD22	1:C:437:ASN:C	2.23	0.46
1:D:140:ALA:HA	5:D:2040:HOH:O	2.15	0.46
1:D:268:PHE:CD1	1:D:286:TYR:HE2	2.32	0.46
1:D:353:PRO:HB2	5:D:2101:HOH:O	2.15	0.46
1:D:720:ARG:HG2	1:D:720:ARG:HH11	1.79	0.46
2:E:4:DA:H2''	2:E:5:DA:H8	1.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:160:LYS:NZ	5:A:2077:HOH:O	2.47	0.46
1:A:201:TRP:O	1:A:204:TRP:HB2	2.15	0.46
1:A:404:GLN:HG2	1:A:432:PHE:CB	2.45	0.46
1:A:553:GLU:HG2	1:A:554:VAL:N	2.29	0.46
1:A:562:LEU:N	1:A:562:LEU:HD23	2.28	0.46
1:A:859:ASP:OD1	1:A:860:LYS:N	2.48	0.46
1:B:42:GLU:HA	1:B:45:GLU:HG3	1.96	0.46
1:C:53:LYS:HB3	1:C:53:LYS:HE2	1.66	0.46
1:C:412:LYS:N	1:C:412:LYS:HD2	2.29	0.46
1:C:502:TRP:CE2	1:C:512:LEU:HD22	2.50	0.46
1:C:619:GLN:NE2	1:C:666:MET:O	2.46	0.46
1:D:89:PHE:HE2	1:D:107:GLN:HA	1.80	0.46
1:D:268:PHE:CD1	1:D:286:TYR:CE2	3.04	0.46
1:D:573:ILE:HD12	1:D:573:ILE:C	2.40	0.46
1:D:644:PHE:CE1	4:P:1:DG:N2	2.83	0.46
1:D:793:LYS:NZ	1:D:834:ASP:OD2	2.42	0.46
1:D:829:ARG:CD	1:D:875:ILE:O	2.63	0.46
1:A:854:HIS:CD2	1:A:856:SER:OG	2.68	0.46
5:A:2080:HOH:O	3:F:3:G:H5'	2.16	0.46
1:B:269:GLN:HB3	1:B:270:PRO:CD	2.46	0.46
1:C:15:GLU:HG3	1:C:18:ALA:H	1.77	0.46
1:C:229:LEU:HD21	1:C:242:GLU:OE2	2.16	0.46
1:C:595:VAL:HG12	1:C:596:THR:N	2.30	0.46
1:C:711:LYS:HG2	1:C:718:ILE:N	2.30	0.46
1:C:804:ILE:HG12	1:C:820:ASP:HB3	1.97	0.46
1:D:78:LEU:O	1:D:82:ILE:HG13	2.14	0.46
1:D:81:MET:HE1	1:D:220:LEU:CA	2.45	0.46
1:D:390:ALA:O	1:D:394:ARG:HG3	2.16	0.46
1:D:412:LYS:O	1:D:413:ALA:HB2	2.15	0.46
1:A:745:THR:O	1:A:746:ARG:HG3	2.16	0.46
1:B:173:ARG:O	1:B:179:LYS:HE2	2.15	0.46
1:B:433:ASN:HB2	1:B:434:PRO:HD2	1.97	0.46
1:B:437:ASN:C	1:B:437:ASN:ND2	2.67	0.46
1:B:619:GLN:O	1:B:622:ALA:HB3	2.16	0.46
1:B:720:ARG:NH1	1:B:720:ARG:CG	2.68	0.46
1:C:833:VAL:HG22	1:C:872:LEU:O	2.16	0.46
1:D:18:ALA:O	1:D:19:ILE:HG12	2.15	0.46
1:D:337:VAL:HG21	1:D:512:LEU:HD21	1.96	0.46
1:D:571:TYR:HD2	1:D:627:ARG:NH2	2.14	0.46
2:H:6:DT:C1'	5:H:2008:HOH:O	2.52	0.46
1:A:137:VAL:HG12	1:A:217:ILE:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:546:PHE:CZ	1:A:783:VAL:HG21	2.47	0.46
1:B:174:VAL:HG22	5:I:2002:HOH:O	2.15	0.46
1:B:276:LYS:HD2	1:B:283:GLY:O	2.15	0.46
1:B:445:THR:OG1	1:B:446:LEU:N	2.48	0.46
1:B:565:GLU:O	1:B:565:GLU:OE2	2.33	0.46
1:C:56:GLU:OE1	1:C:57:ARG:HA	2.15	0.46
1:C:57:ARG:NH1	2:K:17:DG:H3'	2.31	0.46
1:C:452:ILE:HD11	1:C:457:TYR:CA	2.41	0.46
1:C:698:TRP:HZ2	1:C:846:TYR:HD2	1.63	0.46
1:D:21:PHE:C	1:D:21:PHE:CD1	2.94	0.46
4:J:1:DG:H1'	5:J:2001:HOH:O	2.14	0.46
4:P:2:DT:H4'	5:P:2003:HOH:O	2.15	0.46
1:A:342:THR:HA	1:A:348:PRO:HG3	1.97	0.46
1:B:102:ALA:HB1	1:B:106:LEU:HD12	1.98	0.46
1:B:257:ARG:HG2	1:B:257:ARG:HH11	1.81	0.46
1:B:401:MET:HE1	1:B:432:PHE:CB	2.45	0.46
1:B:463:HIS:CD2	1:B:535:ALA:H	2.34	0.46
1:B:510:CYS:HB3	5:B:2225:HOH:O	2.14	0.46
1:B:706:LEU:HD11	1:B:849:PHE:CG	2.50	0.46
1:B:723:CYS:C	5:B:2306:HOH:O	2.58	0.46
1:C:270:PRO:HG3	1:C:416:PHE:HE1	1.79	0.46
1:C:718:ILE:HB	5:C:2153:HOH:O	2.14	0.46
1:D:118:THR:HG23	1:D:141:ILE:HD13	1.98	0.46
2:E:17:DG:H2''	2:E:18:DC:C5	2.51	0.46
4:P:3:DC:H2''	4:P:4:DG:OP2	2.16	0.46
1:A:230:HIS:CD2	1:A:232:GLN:NE2	2.84	0.46
1:A:281:ILE:HD13	1:A:309:GLU:HA	1.96	0.46
1:A:778:ILE:HG23	1:A:779:ALA:H	1.81	0.46
1:B:16:LEU:H	1:B:16:LEU:CD2	2.20	0.46
1:B:264:ILE:C	1:B:266:PRO:HD3	2.41	0.46
1:B:781:ASN:HD21	2:H:12:DT:H5'	1.81	0.46
1:C:155:ARG:HB3	1:C:155:ARG:CZ	2.46	0.46
1:C:199:GLU:O	1:C:199:GLU:CG	2.63	0.46
1:C:487:GLU:HB2	5:C:2116:HOH:O	2.15	0.46
1:C:577:LYS:HB3	1:C:577:LYS:HE2	1.59	0.46
1:C:710:VAL:CG1	1:C:720:ARG:HB3	2.45	0.46
1:C:727:TRP:NE1	1:C:735:VAL:CG1	2.78	0.46
1:C:817:ILE:HD11	1:C:820:ASP:OD2	2.16	0.46
1:D:679:LYS:HE2	1:D:679:LYS:HB2	1.66	0.46
2:E:13:DC:H2''	2:E:14:DG:C5'	2.46	0.46
1:A:57:ARG:CZ	2:E:18:DC:OP2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:561:LEU:HD12	1:A:561:LEU:HA	1.69	0.46
1:B:223:SER:HA	5:B:2106:HOH:O	2.16	0.46
1:B:324:GLN:HE21	1:B:417:PRO:HA	1.80	0.46
1:B:676:TYR:O	1:B:680:LEU:HD13	2.16	0.46
1:B:842:LEU:HD12	1:B:842:LEU:HA	1.72	0.46
1:C:134:VAL:O	1:C:134:VAL:HG22	2.15	0.46
1:C:502:TRP:CD1	1:C:512:LEU:HD13	2.51	0.46
1:C:645:GLY:O	1:C:649:GLN:HG3	2.16	0.46
1:C:711:LYS:CB	1:C:711:LYS:HZ3	2.27	0.46
1:D:656:GLN:HB3	1:D:657:PRO:CD	2.45	0.46
1:A:65:ALA:N	5:A:2057:HOH:O	2.42	0.46
1:A:375:THR:O	1:A:375:THR:CG2	2.63	0.46
1:A:529:ASN:C	1:A:529:ASN:ND2	2.72	0.46
1:A:595:VAL:HG12	1:A:596:THR:N	2.31	0.46
1:A:642:LYS:O	1:A:643:GLU:C	2.57	0.46
1:B:416:PHE:HE1	1:B:432:PHE:O	1.98	0.46
1:B:512:LEU:HD11	1:B:516:PHE:CZ	2.51	0.46
1:B:706:LEU:HD21	1:B:849:PHE:HB2	1.98	0.46
1:C:109:ILE:N	1:C:109:ILE:HD12	2.31	0.46
1:C:176:HIS:C	1:C:176:HIS:ND1	2.73	0.46
1:C:437:ASN:ND2	1:C:437:ASN:C	2.74	0.46
1:C:644:PHE:CD1	2:K:9:DA:C2	3.04	0.46
1:D:274:PRO:HD3	1:D:415:TRP:CZ3	2.51	0.46
3:F:1:G:H5"	5:F:2002:HOH:O	2.16	0.46
1:A:131:ASN:OD1	1:A:131:ASN:C	2.57	0.46
1:A:185:VAL:HG23	1:A:186:VAL:N	2.31	0.46
1:A:249:GLU:CD	1:A:249:GLU:N	2.74	0.46
1:B:17:ALA:HA	5:B:2049:HOH:O	2.16	0.46
1:B:71:LYS:N	1:B:72:PRO:CD	2.78	0.46
1:B:232:GLN:O	1:B:240:ASP:HA	2.16	0.46
1:B:787:ASP:OD1	1:B:788:GLY:N	2.49	0.46
1:C:6:ILE:HG22	1:C:10:ASP:CG	2.41	0.46
1:C:19:ILE:HD13	1:C:20:PRO:HD2	1.97	0.46
1:C:744:GLN:O	1:C:745:THR:OG1	2.27	0.46
1:D:39:LEU:CD2	1:D:272:VAL:HG23	2.46	0.46
1:D:746:ARG:NH1	1:D:754:GLN:O	2.49	0.46
1:A:24:LEU:HD21	1:A:287:TRP:CE2	2.51	0.45
1:A:62:GLY:C	1:A:64:VAL:H	2.23	0.45
1:A:89:PHE:CE2	1:A:107:GLN:HG3	2.46	0.45
1:A:577:LYS:HE2	1:A:580:GLU:OE1	2.16	0.45
1:B:123:LEU:O	1:B:127:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:418:TYR:HD2	1:B:426:VAL:HG12	1.80	0.45
1:B:619:GLN:NE2	1:B:666:MET:O	2.49	0.45
1:B:727:TRP:HB2	5:B:2307:HOH:O	2.15	0.45
1:C:89:PHE:HE2	1:C:107:GLN:HA	1.80	0.45
1:C:208:ASP:O	1:C:212:VAL:HG23	2.16	0.45
1:C:453:GLY:O	1:C:526:LEU:HD22	2.17	0.45
1:C:663:LYS:HE3	1:C:666:MET:HE1	1.98	0.45
1:C:787:ASP:C	1:C:787:ASP:OD1	2.58	0.45
1:D:154:ILE:HG23	1:D:190:MET:CE	2.33	0.45
1:D:192:SER:C	1:D:193:LYS:HG3	2.42	0.45
1:D:402:LEU:CG	1:D:439:MET:HE1	2.24	0.45
1:A:80:LYS:CE	1:A:224:THR:HG22	2.44	0.45
1:A:481:PHE:HD2	1:A:482:ILE:HD13	1.81	0.45
1:B:64:VAL:HG21	1:B:127:THR:HG21	1.96	0.45
1:B:233:ASN:OD1	1:B:239:GLN:HB3	2.16	0.45
1:B:677:MET:HG3	1:B:681:ILE:HD12	1.97	0.45
1:B:746:ARG:NH1	5:B:2315:HOH:O	2.49	0.45
1:C:16:LEU:HD13	5:C:2034:HOH:O	2.16	0.45
1:C:126:LEU:HD23	1:C:132:THR:HG22	1.96	0.45
1:D:291:ARG:C	1:D:293:PRO:HD3	2.41	0.45
1:D:567:VAL:HG22	1:D:880:PHE:CG	2.51	0.45
1:D:654:THR:C	1:D:657:PRO:HD2	2.41	0.45
1:A:244:ILE:O	1:A:245:GLU:CD	2.59	0.45
1:A:437:ASN:C	1:A:437:ASN:HD22	2.24	0.45
1:B:688:THR:HG23	5:B:2301:HOH:O	2.15	0.45
1:B:804:ILE:HG23	1:B:816:THR:HG21	1.99	0.45
1:C:422:TRP:CZ2	1:C:423:ARG:HD2	2.51	0.45
1:C:437:ASN:HD22	1:C:440:THR:HB	1.82	0.45
1:C:730:PRO:CD	1:C:786:GLN:NE2	2.80	0.45
1:D:173:ARG:O	1:D:179:LYS:HE3	2.17	0.45
1:D:379:ARG:HG2	5:D:2146:HOH:O	2.16	0.45
1:D:449:GLY:HA3	1:D:531:SER:HB3	1.97	0.45
1:D:582:LEU:CD1	1:D:625:VAL:HG21	2.43	0.45
1:D:749:LEU:HD11	5:D:2044:HOH:O	2.15	0.45
1:A:486:HIS:O	1:A:490:MET:HG2	2.17	0.45
1:A:551:ARG:HB2	1:A:868:GLY:H	1.80	0.45
1:A:706:LEU:HB2	5:A:2265:HOH:O	2.15	0.45
1:A:709:GLU:O	1:A:711:LYS:HG3	2.16	0.45
1:B:16:LEU:HD13	1:B:38:ALA:CA	2.46	0.45
1:C:422:TRP:HH2	2:K:12:DT:H5"	1.78	0.45
1:D:437:ASN:ND2	1:D:437:ASN:H	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:540:CYS:O	1:D:541:SER:C	2.59	0.45
1:D:717:GLU:O	1:D:719:LEU:CD1	2.64	0.45
1:D:810:ILE:O	1:D:812:ASP:N	2.50	0.45
1:A:185:VAL:CG2	1:A:186:VAL:N	2.79	0.45
1:A:269:GLN:NE2	1:A:407:LYS:HZ2	2.09	0.45
1:B:6:ILE:HG23	1:B:10:ASP:OD2	2.16	0.45
1:B:62:GLY:CA	1:B:124:ALA:HA	2.45	0.45
1:B:420:MET:HA	1:B:425:ARG:O	2.17	0.45
1:B:546:PHE:CD1	1:B:549:MET:HE2	2.52	0.45
1:B:561:LEU:HB3	1:B:562:LEU:HD23	1.97	0.45
1:B:561:LEU:HD23	1:B:870:LEU:HD11	1.98	0.45
1:C:173:ARG:CZ	5:C:2062:HOH:O	2.63	0.45
1:C:550:LEU:HD21	1:C:865:PRO:HG2	1.97	0.45
1:C:706:LEU:HD21	1:C:849:PHE:CB	2.43	0.45
1:D:700:LYS:HA	1:D:778:ILE:HG21	1.98	0.45
1:A:50:ARG:NH1	1:A:50:ARG:CG	2.77	0.45
1:A:352:ILE:HA	1:A:353:PRO:HD3	1.88	0.45
1:A:481:PHE:CD2	1:A:482:ILE:HD13	2.52	0.45
1:A:529:ASN:HD22	1:A:530:CYS:N	2.14	0.45
1:B:19:ILE:O	1:B:21:PHE:N	2.42	0.45
1:B:244:ILE:O	1:B:245:GLU:OE2	2.34	0.45
1:B:439:MET:O	1:B:440:THR:C	2.58	0.45
1:B:632:ARG:HA	1:B:635:MET:HG2	1.97	0.45
1:B:680:LEU:N	1:B:680:LEU:CD1	2.79	0.45
1:B:812:ASP:OD1	3:I:8:U:O3'	2.26	0.45
1:C:76:THR:C	1:C:79:PRO:HD2	2.42	0.45
1:C:532:LEU:CD2	1:C:534:LEU:CD2	2.92	0.45
1:D:72:PRO:HG3	1:D:257:ARG:HG3	1.99	0.45
1:D:433:ASN:HB2	1:D:434:PRO:CD	2.47	0.45
1:D:457:TYR:CE1	1:D:521:VAL:HG11	2.52	0.45
1:D:642:LYS:O	1:D:643:GLU:C	2.56	0.45
1:D:849:PHE:O	1:D:850:ALA:C	2.59	0.45
4:G:5:DA:P	5:G:2004:HOH:O	2.75	0.45
1:A:25:ALA:HA	1:A:29:GLY:O	2.17	0.45
1:A:84:ARG:NE	1:A:222:GLU:CB	2.76	0.45
1:B:247:ALA:HB3	1:B:250:TYR:HD1	1.82	0.45
1:B:577:LYS:HE2	1:B:687:VAL:CG2	2.47	0.45
1:C:6:ILE:HD11	1:C:259:GLY:O	2.16	0.45
1:C:549:MET:SD	1:C:842:LEU:HD13	2.56	0.45
1:C:850:ALA:O	1:C:853:LEU:HG	2.16	0.45
1:D:474:PRO:O	1:D:478:ARG:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:ILE:C	1:A:8:LYS:H	2.25	0.45
1:A:59:LEU:HA	1:A:64:VAL:CG2	2.39	0.45
1:A:163:LYS:C	1:A:164:LYS:HZ3	2.24	0.45
1:A:420:MET:HA	1:A:425:ARG:O	2.16	0.45
1:B:84:ARG:HB2	1:B:223:SER:HB3	1.97	0.45
1:C:571:TYR:HD1	1:C:634:VAL:HG11	1.82	0.45
1:C:685:VAL:HG23	1:C:686:SER:N	2.32	0.45
1:C:727:TRP:CE2	1:C:735:VAL:HG11	2.52	0.45
1:D:828:VAL:HG23	1:D:829:ARG:N	2.31	0.45
1:A:392:LYS:O	1:A:396:ILE:HG12	2.17	0.45
1:A:417:PRO:HG2	1:A:429:VAL:HB	1.99	0.45
1:B:161:HIS:O	1:B:164:LYS:HG2	2.16	0.45
1:B:331:ASN:HB2	1:B:445:THR:CG2	2.45	0.45
1:B:458:TYR:CE1	1:B:479:ILE:HD11	2.52	0.45
1:B:463:HIS:CD2	1:B:534:LEU:HA	2.52	0.45
1:B:595:VAL:HG12	5:B:2264:HOH:O	2.16	0.45
1:B:737:GLN:HE22	1:B:777:GLY:C	2.24	0.45
1:B:744:GLN:HA	1:B:756:ARG:CZ	2.47	0.45
1:C:303:LYS:HZ3	1:C:740:LYS:HZ3	1.65	0.45
1:C:401:MET:HE1	5:C:2105:HOH:O	2.17	0.45
1:C:629:VAL:O	1:C:629:VAL:HG12	2.16	0.45
2:E:13:DC:H2''	2:E:14:DG:H5'	1.99	0.45
1:A:54:MET:HG3	5:A:2055:HOH:O	2.16	0.45
1:A:58:GLN:OE1	1:A:66:ASP:O	2.34	0.45
1:A:89:PHE:HZ	1:A:106:LEU:O	2.00	0.45
1:A:109:ILE:CD1	1:A:109:ILE:N	2.80	0.45
1:A:133:THR:HG22	1:A:243:THR:HG22	1.99	0.45
1:A:463:HIS:CD2	1:A:534:LEU:HA	2.51	0.45
1:A:553:GLU:HG2	1:A:554:VAL:H	1.82	0.45
1:A:560:ASN:ND2	1:A:880:PHE:CB	2.80	0.45
1:A:632:ARG:HA	1:A:635:MET:HG3	1.99	0.45
1:A:840:ASP:O	1:A:842:LEU:N	2.50	0.45
1:B:102:ALA:HB1	1:B:106:LEU:CD1	2.47	0.45
1:B:125:CYS:O	1:B:128:SER:HB3	2.17	0.45
1:B:171:ASN:HB3	3:I:2:C:H4'	1.99	0.45
1:B:206:LYS:HG2	1:B:207:GLU:OE2	2.17	0.45
1:B:247:ALA:HB3	1:B:250:TYR:CD1	2.52	0.45
1:C:162:PHE:CE2	1:C:165:ASN:HB2	2.52	0.45
1:C:419:ASN:HD22	1:C:419:ASN:HA	1.48	0.45
1:C:474:PRO:C	1:C:476:PRO:HD2	2.42	0.45
1:C:623:TYR:CA	1:C:666:MET:HE2	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:780:PRO:O	1:C:783:VAL:HG23	2.17	0.45
1:C:854:HIS:CG	1:C:855:GLU:N	2.84	0.45
1:C:882:PHE:N	1:C:882:PHE:CD1	2.67	0.45
1:D:486:HIS:C	1:D:486:HIS:ND1	2.72	0.45
1:D:632:ARG:HB2	1:D:632:ARG:HH11	1.81	0.45
1:D:812:ASP:C	1:D:812:ASP:OD1	2.60	0.45
2:E:3:DG:H2''	2:E:4:DA:OP2	2.16	0.45
1:A:514:PHE:CD1	1:A:515:CYS:N	2.85	0.44
1:A:560:ASN:ND2	1:A:880:PHE:HB2	2.31	0.44
1:A:790:HIS:C	1:A:790:HIS:CD2	2.92	0.44
1:B:221:ILE:CD1	1:B:229:LEU:HB2	2.47	0.44
1:B:332:LYS:HA	5:B:2150:HOH:O	2.17	0.44
1:B:423:ARG:NE	2:H:12:DT:C4'	2.68	0.44
1:B:532:LEU:O	1:B:818:PRO:HD3	2.18	0.44
1:B:647:ARG:HG2	1:B:675:GLY:HA2	1.98	0.44
1:B:752:LEU:HB2	1:B:753:GLY:H	1.48	0.44
1:C:206:LYS:O	1:C:210:ILE:HG12	2.18	0.44
1:C:541:SER:O	1:C:545:HIS:HD2	1.99	0.44
1:C:611:LEU:HD22	1:C:615:ALA:CB	2.47	0.44
1:C:860:LYS:O	1:C:860:LYS:CD	2.63	0.44
1:D:27:HIS:HB3	1:D:28:TYR:CE1	2.51	0.44
1:D:737:GLN:HG2	1:D:774:GLN:HE22	1.83	0.44
1:A:560:ASN:ND2	1:A:567:VAL:HG13	2.21	0.44
1:A:726:HIS:CD2	1:A:736:TRP:NE1	2.86	0.44
1:A:811:HIS:HA	5:A:2283:HOH:O	2.16	0.44
1:A:849:PHE:C	1:A:849:PHE:CD2	2.94	0.44
1:A:854:HIS:HD2	1:A:856:SER:H	1.53	0.44
1:B:185:VAL:CG2	1:B:186:VAL:N	2.79	0.44
1:B:573:ILE:CD1	1:B:688:THR:HG21	2.45	0.44
1:B:857:GLN:HA	5:B:2340:HOH:O	2.18	0.44
1:C:80:LYS:HD3	1:C:224:THR:CG2	2.35	0.44
1:C:257:ARG:HD3	1:C:261:LEU:HD13	1.97	0.44
1:C:275:PRO:HB2	1:C:324:GLN:CG	2.47	0.44
1:C:526:LEU:HA	1:C:526:LEU:HD23	1.72	0.44
1:D:170:LEU:O	1:D:173:ARG:HB2	2.17	0.44
1:D:623:TYR:HB2	1:D:666:MET:HE2	1.99	0.44
1:A:332:LYS:HE2	1:A:410:ASN:HD22	1.78	0.44
1:C:81:MET:O	1:C:85:ILE:HG13	2.18	0.44
1:C:726:HIS:CD2	1:C:727:TRP:N	2.86	0.44
1:D:54:MET:O	1:D:58:GLN:HG2	2.17	0.44
1:D:276:LYS:HD2	1:D:283:GLY:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:789:SER:HA	1:D:792:ARG:NH2	2.32	0.44
1:A:711:LYS:HG2	1:A:718:ILE:HA	1.99	0.44
1:A:746:ARG:HB3	1:A:746:ARG:CZ	2.43	0.44
1:C:89:PHE:HE2	1:C:107:GLN:HG3	1.83	0.44
1:C:108:GLU:OE1	1:C:108:GLU:CA	2.64	0.44
1:C:448:LYS:HG3	1:C:448:LYS:O	2.17	0.44
1:C:482:ILE:HD12	1:C:514:PHE:HZ	1.81	0.44
1:C:801:LYS:O	1:C:801:LYS:CE	2.64	0.44
1:D:543:ILE:HG21	1:D:689:VAL:HG11	1.99	0.44
1:D:859:ASP:OD2	1:D:860:LYS:N	2.51	0.44
2:K:5:DA:H2''	2:K:6:DT:OP2	2.17	0.44
1:A:320:ILE:H	1:A:320:ILE:HG12	1.62	0.44
1:A:744:GLN:H	1:A:744:GLN:HG3	1.51	0.44
1:C:709:GLU:HG2	1:C:709:GLU:O	2.16	0.44
1:C:860:LYS:O	1:C:862:PRO:HD3	2.18	0.44
1:D:319:ALA:HB3	1:D:792:ARG:HG2	1.97	0.44
1:D:463:HIS:CD2	1:D:534:LEU:HA	2.52	0.44
1:D:532:LEU:O	1:D:818:PRO:HD3	2.17	0.44
1:A:133:THR:HA	1:A:243:THR:HA	2.00	0.44
1:A:203:SER:O	1:A:205:HIS:N	2.49	0.44
1:A:229:LEU:HD11	1:A:242:GLU:HG2	2.00	0.44
1:A:711:LYS:HB3	1:A:717:GLU:O	2.17	0.44
1:A:804:ILE:CG2	1:A:816:THR:HG21	2.38	0.44
1:B:230:HIS:O	1:B:232:GLN:NE2	2.48	0.44
1:B:272:VAL:HG13	1:B:411:HIS:CD2	2.53	0.44
1:B:427:TYR:N	1:B:427:TYR:CD1	2.85	0.44
1:C:5:ASN:HA	1:C:52:ARG:HH11	1.82	0.44
1:D:62:GLY:C	1:D:64:VAL:H	2.24	0.44
1:D:619:GLN:O	1:D:622:ALA:HB3	2.17	0.44
2:K:15:DC:H2''	2:K:16:DC:C5'	2.47	0.44
1:A:65:ALA:HB3	1:A:120:LYS:HE2	2.00	0.44
1:A:155:ARG:HB3	1:A:749:LEU:HD21	2.00	0.44
1:A:437:ASN:O	1:A:438:ASP:C	2.60	0.44
1:A:744:GLN:HB3	1:A:756:ARG:HB2	2.00	0.44
1:B:195:LEU:N	5:B:2099:HOH:O	2.49	0.44
1:B:534:LEU:HD11	1:B:818:PRO:HG3	2.00	0.44
1:C:16:LEU:HD13	1:C:38:ALA:CA	2.47	0.44
1:C:227:VAL:HG12	1:C:244:ILE:HG22	2.00	0.44
1:C:416:PHE:O	1:C:418:TYR:CD1	2.70	0.44
1:C:630:THR:HG22	1:C:681:ILE:HD13	2.00	0.44
1:D:185:VAL:HG23	1:D:186:VAL:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:327:ALA:CB	1:D:448:LYS:HE2	2.47	0.44
1:D:328:TRP:O	1:D:413:ALA:HA	2.18	0.44
1:D:389:LYS:NZ	3:O:3:G:O2'	2.51	0.44
1:D:463:HIS:CE1	5:D:2121:HOH:O	2.70	0.44
1:D:717:GLU:O	1:D:719:LEU:HD13	2.18	0.44
2:H:13:DC:H2''	2:H:14:DG:C5'	2.48	0.44
1:B:183:MET:HE2	1:B:183:MET:CA	2.45	0.44
1:B:630:THR:O	1:B:634:VAL:CG1	2.66	0.44
1:B:720:ARG:HE	1:B:854:HIS:H	1.65	0.44
1:B:880:PHE:CD1	1:B:880:PHE:N	2.81	0.44
1:C:273:VAL:HA	1:C:415:TRP:CZ3	2.52	0.44
1:C:313:MET:N	1:C:314:PRO:HD3	2.32	0.44
1:C:349:VAL:HG13	1:C:503:ALA:O	2.17	0.44
1:C:790:HIS:C	1:C:790:HIS:ND1	2.76	0.44
1:D:232:GLN:NE2	1:D:243:THR:OG1	2.51	0.44
1:D:349:VAL:HG12	5:D:2096:HOH:O	2.18	0.44
1:A:176:HIS:HD2	1:A:751:PHE:CE1	2.36	0.44
1:A:247:ALA:HA	1:A:248:PRO:HD3	1.88	0.44
1:A:378:LYS:HD2	1:A:378:LYS:HA	1.90	0.44
1:A:631:LYS:O	1:A:634:VAL:HG12	2.18	0.44
1:B:257:ARG:CG	5:B:2125:HOH:O	2.57	0.44
1:C:326:THR:O	1:C:415:TRP:CD1	2.71	0.44
1:C:454:LYS:HG3	1:C:455:GLU:N	2.32	0.44
1:C:479:ILE:HD13	1:C:479:ILE:HA	1.88	0.44
1:C:668:THR:C	1:C:669:GLN:OE1	2.60	0.44
1:C:718:ILE:HD12	5:C:2153:HOH:O	2.17	0.44
1:D:30:GLU:O	1:D:34:ARG:HG3	2.18	0.44
1:D:236:VAL:CB	1:D:239:GLN:HB2	2.48	0.44
2:E:15:DC:H2''	2:E:16:DC:C5'	2.47	0.44
1:A:115:ALA:O	1:A:119:ILE:CG1	2.66	0.43
1:A:178:TYR:N	1:A:178:TYR:CD2	2.86	0.43
1:A:355:ILE:C	5:A:2144:HOH:O	2.61	0.43
1:A:645:GLY:HA3	2:E:10:DC:OP2	2.18	0.43
1:B:158:GLU:CB	1:B:190:MET:HE1	2.47	0.43
1:B:281:ILE:HG23	1:B:305:LEU:CD2	2.46	0.43
1:B:412:LYS:O	1:B:413:ALA:HB2	2.17	0.43
1:C:154:ILE:HD13	1:C:190:MET:CE	2.48	0.43
1:C:552:ASP:C	1:C:552:ASP:OD1	2.61	0.43
1:C:846:TYR:CD1	1:C:846:TYR:C	2.96	0.43
1:D:337:VAL:HG11	1:D:502:TRP:CZ2	2.52	0.43
1:D:486:HIS:HE1	1:D:490:MET:HE2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:487:GLU:OE1	1:D:487:GLU:HA	2.17	0.43
1:D:641:SER:HA	2:N:10:DC:H5'	1.99	0.43
1:D:751:PHE:HD2	1:D:752:LEU:HD11	1.82	0.43
1:D:873:ARG:HH11	1:D:876:LEU:CD1	2.30	0.43
1:A:84:ARG:NE	1:A:222:GLU:HB3	2.33	0.43
1:B:105:PHE:C	1:B:107:GLN:H	2.26	0.43
1:C:143:ARG:NH1	1:C:209:SER:HB2	2.33	0.43
1:C:455:GLU:O	1:C:458:TYR:HB3	2.18	0.43
1:D:348:PRO:CD	5:D:2092:HOH:O	2.65	0.43
1:A:104:GLN:HB2	1:A:105:PHE:CD2	2.54	0.43
1:A:232:GLN:HB2	1:A:241:SER:O	2.19	0.43
1:A:269:GLN:HB3	1:A:270:PRO:CD	2.49	0.43
1:A:641:SER:CB	2:E:10:DC:H5'	2.48	0.43
1:A:700:LYS:HA	1:A:778:ILE:HG21	2.00	0.43
1:A:825:PHE:CE2	1:A:829:ARG:NH2	2.87	0.43
1:B:88:TRP:O	1:B:92:VAL:HG23	2.18	0.43
1:B:193:LYS:HB2	1:B:194:GLY:H	1.55	0.43
1:B:199:GLU:C	1:B:201:TRP:CD1	2.96	0.43
1:B:231:ARG:HG2	1:B:234:ALA:HB2	2.00	0.43
1:B:305:LEU:CD2	1:B:305:LEU:C	2.91	0.43
1:C:6:ILE:C	1:C:8:LYS:H	2.26	0.43
1:C:147:ASP:CB	1:C:750:MET:HE1	2.44	0.43
1:C:404:GLN:HG2	1:C:432:PHE:HB2	2.00	0.43
1:C:536:PHE:CE1	1:C:825:PHE:HD2	2.36	0.43
1:C:720:ARG:NH2	1:C:857:GLN:OE1	2.34	0.43
1:C:779:ALA:HB3	1:C:780:PRO:CD	2.48	0.43
1:C:849:PHE:O	1:C:850:ALA:C	2.60	0.43
1:D:651:LEU:O	1:D:656:GLN:HB2	2.18	0.43
1:D:750:MET:H	1:D:750:MET:HG2	1.64	0.43
1:A:115:ALA:O	1:A:119:ILE:HD11	2.17	0.43
1:A:249:GLU:CG	5:A:2109:HOH:O	2.66	0.43
1:B:6:ILE:O	1:B:8:LYS:N	2.40	0.43
1:C:741:LYS:HG2	5:C:2159:HOH:O	2.16	0.43
1:D:105:PHE:C	1:D:107:GLN:H	2.26	0.43
1:D:148:GLU:CG	5:D:2041:HOH:O	2.65	0.43
1:D:177:VAL:HG12	1:D:178:TYR:CD2	2.53	0.43
1:D:231:ARG:NH1	1:D:242:GLU:HB2	2.33	0.43
1:D:446:LEU:HD12	1:D:817:ILE:CG2	2.48	0.43
1:D:450:LYS:HD2	1:D:817:ILE:HD11	2.01	0.43
1:D:726:HIS:CD2	1:D:727:TRP:H	2.33	0.43
1:D:861:MET:CE	1:D:862:PRO:HD2	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:ILE:O	1:A:16:LEU:HD23	2.18	0.43
1:A:829:ARG:HG3	1:A:829:ARG:NH1	2.32	0.43
1:A:842:LEU:HD23	1:A:864:LEU:CD2	2.47	0.43
1:B:221:ILE:CG1	1:B:227:VAL:HG23	2.49	0.43
1:B:663:LYS:CG	1:B:664:GLY:N	2.64	0.43
1:B:825:PHE:CE2	1:B:829:ARG:NH2	2.87	0.43
1:C:319:ALA:O	1:C:320:ILE:C	2.59	0.43
1:C:514:PHE:HD1	1:C:515:CYS:N	2.15	0.43
1:D:372:GLU:HB2	5:D:2105:HOH:O	2.17	0.43
1:D:446:LEU:HB2	1:D:531:SER:O	2.19	0.43
1:A:230:HIS:HE2	1:A:245:GLU:HG2	1.84	0.43
1:A:737:GLN:HE22	1:A:777:GLY:C	2.27	0.43
1:A:849:PHE:O	1:A:850:ALA:C	2.61	0.43
1:B:157:LEU:HG	1:B:195:LEU:CD2	2.48	0.43
1:B:719:LEU:N	1:B:719:LEU:CD1	2.81	0.43
1:B:754:GLN:HB3	1:B:755:PHE:H	1.54	0.43
1:B:781:ASN:HD21	2:H:12:DT:C5'	2.31	0.43
1:C:217:ILE:O	1:C:221:ILE:HG13	2.19	0.43
1:C:871:ASN:O	1:C:873:ARG:N	2.52	0.43
1:D:163:LYS:O	1:D:166:VAL:HB	2.19	0.43
1:D:281:ILE:HD12	1:D:281:ILE:HA	1.67	0.43
1:D:571:TYR:HD1	1:D:634:VAL:HG11	1.82	0.43
1:A:111:PRO:HG2	1:A:112:GLU:CD	2.43	0.43
1:B:272:VAL:HG13	1:B:411:HIS:HD2	1.82	0.43
1:B:656:GLN:HB3	1:B:657:PRO:HD2	2.00	0.43
1:B:668:THR:O	1:B:670:PRO:HD3	2.19	0.43
1:B:730:PRO:CG	1:B:786:GLN:HE22	2.31	0.43
1:B:847:ASP:N	1:B:847:ASP:OD1	2.50	0.43
1:C:147:ASP:OD1	1:C:180:LYS:HE3	2.18	0.43
1:C:459:TRP:HB3	1:C:534:LEU:CD1	2.49	0.43
1:C:523:HIS:CD2	1:C:523:HIS:N	2.84	0.43
1:C:700:LYS:HA	1:C:778:ILE:HG21	2.01	0.43
1:D:148:GLU:HG3	5:D:2041:HOH:O	2.18	0.43
1:D:401:MET:HE3	1:D:440:THR:OG1	2.18	0.43
1:D:828:VAL:CG2	1:D:883:ALA:HA	2.48	0.43
2:N:5:DA:C2	4:P:7:DT:O2	2.72	0.43
2:N:6:DT:H2'	5:N:2008:HOH:O	2.19	0.43
1:B:236:VAL:HG11	1:B:239:GLN:NE2	2.34	0.43
1:B:275:PRO:HD3	1:B:415:TRP:CB	2.48	0.43
1:C:421:ASP:OD1	1:C:421:ASP:C	2.62	0.43
1:C:664:GLY:HA2	1:C:667:PHE:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:81:MET:HE1	1:D:220:LEU:HA	1.99	0.43
1:D:120:LYS:HD3	1:D:120:LYS:O	2.18	0.43
1:D:335:LEU:HD22	1:D:335:LEU:C	2.44	0.43
1:D:343:LYS:HE3	1:D:343:LYS:HB3	1.90	0.43
1:D:353:PRO:CD	5:D:2098:HOH:O	2.65	0.43
2:H:13:DC:H2''	2:H:14:DG:H5'	2.01	0.43
1:A:24:LEU:HD21	1:A:287:TRP:CG	2.51	0.43
1:A:61:ALA:HB3	1:A:63:GLU:HG3	2.01	0.43
1:A:294:LEU:HA	1:A:294:LEU:HD23	1.79	0.43
1:A:621:LEU:HD23	1:A:621:LEU:HA	1.82	0.43
1:A:814:PHE:HE1	1:A:883:ALA:HB2	1.80	0.43
1:A:881:ALA:HA	5:A:2310:HOH:O	2.16	0.43
1:B:106:LEU:HD21	1:B:212:VAL:HG13	1.97	0.43
1:B:201:TRP:O	1:B:204:TRP:HB2	2.19	0.43
1:B:224:THR:HB	5:B:2107:HOH:O	2.18	0.43
1:B:833:VAL:HG12	1:B:834:ASP:N	2.32	0.43
5:B:2341:HOH:O	4:J:5:DA:H5''	2.18	0.43
1:C:632:ARG:HG2	5:C:2145:HOH:O	2.19	0.43
1:D:215:ARG:HA	1:D:215:ARG:HD2	1.81	0.43
1:D:406:ASN:CB	5:D:2112:HOH:O	2.64	0.43
1:D:567:VAL:HA	1:D:880:PHE:CD2	2.54	0.43
1:D:791:LEU:HD23	1:D:791:LEU:C	2.44	0.43
1:A:644:PHE:C	1:A:644:PHE:CD2	2.97	0.43
1:A:772:HIS:CE1	4:G:6:DT:H5'	2.53	0.43
1:B:7:ALA:CB	5:B:2057:HOH:O	2.67	0.43
1:B:16:LEU:HD13	1:B:38:ALA:CB	2.49	0.43
1:B:162:PHE:CD2	1:B:162:PHE:O	2.71	0.43
1:B:164:LYS:N	1:B:164:LYS:HE3	2.33	0.43
1:B:182:PHE:CD2	1:B:183:MET:HE3	2.53	0.43
1:B:296:LEU:O	1:B:296:LEU:HG	2.18	0.43
1:C:158:GLU:HG2	1:C:195:LEU:CD2	2.49	0.43
1:C:195:LEU:HA	1:C:195:LEU:HD12	1.81	0.43
1:D:101:THR:HG21	5:D:2055:HOH:O	2.18	0.43
1:D:126:LEU:HD21	1:D:244:ILE:CG2	2.42	0.43
1:D:490:MET:CE	1:D:522:GLN:HG3	2.49	0.43
1:D:668:THR:O	1:D:670:PRO:HD3	2.19	0.43
1:D:829:ARG:HD3	1:D:875:ILE:O	2.19	0.43
1:D:859:ASP:C	1:D:861:MET:H	2.27	0.43
1:A:234:ALA:HA	1:A:240:ASP:OD2	2.19	0.42
1:B:343:LYS:HE3	1:B:343:LYS:HB3	1.76	0.42
1:B:629:VAL:O	1:B:629:VAL:HG12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:726:HIS:CD2	1:B:736:TRP:CE2	3.07	0.42
1:C:231:ARG:CZ	1:C:242:GLU:HB2	2.49	0.42
1:C:509:PHE:N	1:C:509:PHE:CD2	2.87	0.42
1:C:807:PHE:N	1:C:807:PHE:CD1	2.87	0.42
1:C:810:ILE:HB	1:C:813:SER:HB3	1.99	0.42
1:C:828:VAL:O	1:C:831:THR:CG2	2.67	0.42
1:D:88:TRP:NE1	5:D:2029:HOH:O	2.52	0.42
1:D:93:LYS:HA	1:D:99:ARG:HH12	1.83	0.42
1:D:274:PRO:HD3	1:D:415:TRP:CH2	2.54	0.42
1:D:722:ARG:HD2	1:D:768:GLU:OE2	2.19	0.42
1:A:8:LYS:O	1:A:12:SER:HB2	2.18	0.42
1:A:298:ARG:HG3	1:A:420:MET:O	2.18	0.42
1:A:724:ALA:HA	1:A:774:GLN:NE2	2.34	0.42
1:B:83:ALA:O	1:B:87:ASP:OD2	2.37	0.42
1:B:141:ILE:H	1:B:141:ILE:HG13	1.58	0.42
1:B:552:ASP:OD1	1:B:552:ASP:C	2.62	0.42
1:B:699:LEU:O	1:B:778:ILE:HG21	2.19	0.42
1:B:709:GLU:O	1:B:711:LYS:HG3	2.20	0.42
1:C:373:ALA:C	1:C:377:TRP:CD1	2.97	0.42
1:C:641:SER:HA	2:K:10:DC:H5'	2.01	0.42
1:C:746:ARG:HB2	1:C:754:GLN:O	2.19	0.42
1:D:298:ARG:HG3	1:D:420:MET:O	2.19	0.42
1:D:578:VAL:HG13	1:D:680:LEU:HB3	2.00	0.42
2:N:12:DT:H2''	2:N:13:DC:O5'	2.20	0.42
1:A:20:PRO:HA	5:A:2043:HOH:O	2.19	0.42
1:A:163:LYS:HD2	1:A:166:VAL:HB	1.99	0.42
1:A:512:LEU:HG	1:A:516:PHE:CE2	2.53	0.42
1:A:828:VAL:HB	1:A:883:ALA:HA	2.01	0.42
1:B:146:GLU:HG3	1:B:204:TRP:CD2	2.54	0.42
1:B:322:ILE:CD1	1:B:799:HIS:CD2	3.02	0.42
1:B:605:ILE:N	5:B:2273:HOH:O	2.52	0.42
1:B:717:GLU:HB3	5:B:2302:HOH:O	2.19	0.42
1:C:166:VAL:O	1:C:167:GLU:C	2.61	0.42
1:C:231:ARG:NH2	1:C:242:GLU:HB2	2.34	0.42
1:C:291:ARG:HD3	1:C:291:ARG:HA	1.74	0.42
1:C:485:ASN:ND2	1:C:488:ASN:ND2	2.53	0.42
1:C:615:ALA:O	1:C:619:GLN:HG3	2.19	0.42
1:C:677:MET:O	1:C:681:ILE:HG13	2.18	0.42
1:C:833:VAL:O	1:C:837:GLU:HG3	2.19	0.42
1:D:93:LYS:NZ	5:D:2032:HOH:O	2.52	0.42
1:D:316:VAL:HG12	1:D:317:TYR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:337:VAL:HG11	1:D:502:TRP:CH2	2.54	0.42
1:D:505:GLN:O	1:D:508:PRO:HD3	2.18	0.42
1:A:226:MET:HG3	1:A:250:TYR:CD1	2.37	0.42
1:B:6:ILE:CB	1:B:48:GLU:OE2	2.66	0.42
1:B:253:ALA:CB	5:B:2001:HOH:O	2.67	0.42
1:B:331:ASN:HA	5:B:2151:HOH:O	2.18	0.42
1:B:700:LYS:HA	1:B:778:ILE:HG21	2.01	0.42
1:C:274:PRO:HA	1:C:275:PRO:HD3	1.90	0.42
1:C:349:VAL:CG1	1:C:503:ALA:O	2.68	0.42
1:C:457:TYR:HD1	1:C:521:VAL:HG21	1.84	0.42
1:C:502:TRP:CZ2	1:C:512:LEU:HD22	2.55	0.42
1:D:643:GLU:HG3	1:D:682:TRP:CB	2.50	0.42
1:A:105:PHE:C	1:A:107:GLN:H	2.26	0.42
1:A:166:VAL:HG11	1:A:183:MET:HE1	2.02	0.42
1:A:372:GLU:HB2	5:A:2014:HOH:O	2.19	0.42
1:A:685:VAL:HG23	1:A:686:SER:N	2.35	0.42
1:B:182:PHE:O	1:B:186:VAL:HG23	2.20	0.42
1:B:852:GLN:HE21	1:B:852:GLN:HB2	1.47	0.42
1:C:418:TYR:HD2	1:C:426:VAL:HG12	1.82	0.42
1:C:486:HIS:ND1	1:C:486:HIS:C	2.77	0.42
1:C:551:ARG:HD3	1:C:872:LEU:HD21	2.01	0.42
1:D:6:ILE:O	1:D:8:LYS:N	2.44	0.42
1:D:9:ASN:CA	1:D:12:SER:HB3	2.49	0.42
1:D:137:VAL:HG21	5:D:2038:HOH:O	2.20	0.42
1:D:275:PRO:HG2	1:D:324:GLN:CG	2.50	0.42
1:D:326:THR:HG23	1:D:806:SER:CA	2.46	0.42
1:D:659:ILE:HA	1:D:663:LYS:O	2.19	0.42
2:E:11:DA:H2''	2:E:12:DT:O5'	2.19	0.42
1:A:14:ILE:O	1:A:14:ILE:HG22	2.20	0.42
1:A:59:LEU:HD23	1:A:64:VAL:HG13	2.00	0.42
1:A:163:LYS:C	1:A:164:LYS:NZ	2.78	0.42
1:A:205:HIS:CD2	1:A:206:LYS:HE2	2.53	0.42
1:A:322:ILE:HD13	1:A:799:HIS:CD2	2.54	0.42
1:A:722:ARG:HE	1:A:722:ARG:HB3	1.27	0.42
1:A:828:VAL:C	1:A:831:THR:HG22	2.45	0.42
1:B:59:LEU:HD23	1:B:64:VAL:HG22	1.99	0.42
1:B:313:MET:N	1:B:314:PRO:HD3	2.33	0.42
1:B:412:LYS:HA	1:B:412:LYS:HD2	1.83	0.42
1:B:455:GLU:O	1:B:458:TYR:HB3	2.19	0.42
1:B:475:PHE:HE1	1:B:478:ARG:HH12	1.65	0.42
1:B:582:LEU:CD2	1:B:620:TRP:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:98:LYS:HE2	1:C:98:LYS:HB3	1.91	0.42
1:C:448:LYS:O	1:C:448:LYS:CG	2.67	0.42
1:C:632:ARG:HA	1:C:635:MET:HG2	2.02	0.42
1:C:748:ASN:ND2	1:C:751:PHE:H	2.17	0.42
4:J:3:DC:C2'	5:J:2002:HOH:O	2.62	0.42
1:A:270:PRO:HD2	1:A:408:PHE:CE2	2.53	0.42
1:A:274:PRO:HA	1:A:275:PRO:HD3	1.94	0.42
1:B:242:GLU:HB3	5:B:2117:HOH:O	2.19	0.42
1:B:849:PHE:O	1:B:850:ALA:C	2.62	0.42
1:C:79:PRO:HG2	1:C:80:LYS:H	1.84	0.42
1:C:89:PHE:CE2	1:C:107:GLN:HA	2.55	0.42
1:C:346:HIS:ND1	1:C:391:ARG:NH2	2.67	0.42
1:C:810:ILE:HG22	3:L:8:U:H5'	2.01	0.42
1:D:109:ILE:HG23	1:D:148:GLU:HG3	2.01	0.42
1:D:152:GLY:O	1:D:156:ASP:OD2	2.38	0.42
1:D:488:ASN:HB3	1:D:501:TRP:CZ3	2.54	0.42
1:D:666:MET:HG2	1:D:667:PHE:CD1	2.54	0.42
1:D:748:ASN:HB2	1:D:753:GLY:HA2	1.99	0.42
1:D:846:TYR:CD1	1:D:850:ALA:HB2	2.55	0.42
1:D:852:GLN:HE21	1:D:852:GLN:HB2	1.52	0.42
4:M:7:DT:H2''	4:M:8:DC:C5	2.55	0.42
4:M:8:DC:H2''	4:M:9:DC:OP2	2.20	0.42
1:A:77:LEU:HD22	1:A:226:MET:SD	2.60	0.42
1:A:249:GLU:N	1:A:249:GLU:OE1	2.50	0.42
1:A:292:ARG:NH1	1:A:292:ARG:CG	2.83	0.42
1:A:340:VAL:HG12	1:A:341:ILE:N	2.34	0.42
1:A:540:CYS:O	1:A:541:SER:C	2.62	0.42
1:A:573:ILE:HD11	1:A:688:THR:CG2	2.49	0.42
1:A:748:ASN:HB2	1:A:752:LEU:C	2.44	0.42
1:A:790:HIS:CD2	1:A:790:HIS:O	2.73	0.42
1:A:814:PHE:CE1	1:A:883:ALA:CB	3.02	0.42
1:B:14:ILE:HG23	1:B:288:ALA:CB	2.46	0.42
1:B:190:MET:HE3	1:B:190:MET:HB3	1.87	0.42
1:B:420:MET:HE3	1:B:420:MET:HB2	1.58	0.42
1:B:500:THR:O	1:B:501:TRP:C	2.63	0.42
1:B:713:LYS:HA	1:B:713:LYS:HD2	1.79	0.42
1:B:860:LYS:O	1:B:860:LYS:HG2	2.20	0.42
1:C:15:GLU:HG2	1:C:18:ALA:N	2.32	0.42
1:C:57:ARG:CD	5:C:2041:HOH:O	2.67	0.42
1:C:68:ALA:HB3	1:C:261:LEU:CD2	2.45	0.42
1:C:474:PRO:HB2	1:C:476:PRO:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:586:ALA:HB3	5:C:2136:HOH:O	2.20	0.42
1:C:665:LEU:HD23	1:C:665:LEU:HA	1.88	0.42
1:C:845:PHE:O	1:C:848:GLN:HB2	2.20	0.42
1:D:229:LEU:O	1:D:229:LEU:HG	2.18	0.42
1:D:754:GLN:O	1:D:755:PHE:O	2.37	0.42
1:D:836:TYR:HB2	1:D:872:LEU:HD13	2.02	0.42
2:K:11:DA:H2''	2:K:12:DT:O5'	2.19	0.42
1:A:57:ARG:HA	1:A:60:LYS:HB3	2.02	0.42
1:A:810:ILE:O	1:A:812:ASP:N	2.53	0.42
1:B:11:PHE:N	5:B:2030:HOH:O	2.47	0.42
1:B:160:LYS:NZ	1:B:161:HIS:CE1	2.88	0.42
1:B:205:HIS:C	1:B:207:GLU:N	2.77	0.42
1:B:231:ARG:CD	1:B:240:ASP:OD1	2.67	0.42
1:B:550:LEU:HD23	1:B:550:LEU:HA	1.68	0.42
1:B:754:GLN:NE2	3:I:1:G:H4'	2.34	0.42
1:B:871:ASN:O	1:B:872:LEU:C	2.62	0.42
1:C:71:LYS:N	1:C:72:PRO:CD	2.83	0.42
1:C:231:ARG:HD2	1:C:240:ASP:OD1	2.20	0.42
1:C:827:ALA:O	1:C:831:THR:HG22	2.19	0.42
1:D:220:LEU:CG	5:D:2059:HOH:O	2.63	0.42
1:D:247:ALA:HA	1:D:248:PRO:HD3	1.87	0.42
1:D:829:ARG:HG3	1:D:829:ARG:NH1	2.26	0.42
4:G:8:DC:N4	5:G:2010:HOH:O	2.52	0.42
1:A:59:LEU:C	1:A:61:ALA:N	2.78	0.42
1:A:522:GLN:H	1:A:522:GLN:HG2	1.50	0.42
1:A:542:GLY:HA2	1:A:783:VAL:HG11	2.01	0.42
1:A:571:TYR:HE1	1:A:634:VAL:HG13	1.85	0.42
1:A:713:LYS:HE3	1:A:713:LYS:CA	2.50	0.42
1:A:823:ASN:N	5:A:2294:HOH:O	2.45	0.42
1:B:706:LEU:HD11	1:B:849:PHE:CB	2.50	0.42
1:B:746:ARG:NH1	1:B:754:GLN:O	2.53	0.42
1:C:16:LEU:H	1:C:16:LEU:CD2	2.14	0.42
1:C:147:ASP:HB3	1:C:750:MET:HE2	1.94	0.42
1:C:171:ASN:O	3:L:2:C:O2'	2.37	0.42
1:C:473:VAL:O	1:C:478:ARG:NE	2.33	0.42
1:C:611:LEU:HD22	1:C:615:ALA:HB1	2.02	0.42
1:C:871:ASN:O	1:C:872:LEU:C	2.63	0.42
1:D:47:GLY:O	1:D:50:ARG:HB3	2.20	0.42
1:D:326:THR:O	1:D:415:TRP:CD1	2.73	0.42
1:D:346:HIS:CD2	1:D:391:ARG:NH2	2.88	0.42
1:D:416:PHE:HA	1:D:417:PRO:HD2	1.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:689:VAL:HA	5:D:2133:HOH:O	2.19	0.42
1:D:698:TRP:CE3	1:D:842:LEU:HG	2.55	0.42
1:A:583:GLN:HE21	1:A:583:GLN:HB3	1.44	0.41
1:B:42:GLU:HG2	1:B:46:MET:CE	2.49	0.41
1:B:54:MET:HA	5:B:2061:HOH:O	2.19	0.41
1:B:84:ARG:CG	1:B:223:SER:HB3	2.50	0.41
1:B:655:ILE:O	1:B:659:ILE:HG13	2.20	0.41
1:C:191:LEU:HD23	1:C:191:LEU:HA	1.92	0.41
1:C:329:LYS:HE3	1:C:329:LYS:HB2	1.84	0.41
1:C:350:GLU:OE1	1:C:350:GLU:HA	2.20	0.41
1:C:457:TYR:CE1	1:C:521:VAL:CG1	2.88	0.41
1:D:207:GLU:OE1	1:D:207:GLU:HA	2.20	0.41
1:D:349:VAL:HG11	1:D:503:ALA:O	2.20	0.41
1:D:639:TYR:CE2	2:N:11:DA:C6	3.07	0.41
1:D:710:VAL:CG1	1:D:720:ARG:HB3	2.46	0.41
2:K:13:DC:H2''	2:K:14:DG:C5'	2.50	0.41
1:A:179:LYS:HE2	1:A:750:MET:HA	2.02	0.41
5:A:2164:HOH:O	3:F:7:A:H1'	2.20	0.41
1:B:15:GLU:HB2	1:B:18:ALA:O	2.19	0.41
1:B:62:GLY:C	1:B:64:VAL:H	2.28	0.41
1:B:166:VAL:O	1:B:168:GLU:OE1	2.38	0.41
1:B:267:MET:HE3	1:B:267:MET:HB3	1.90	0.41
1:B:551:ARG:NH2	1:B:836:TYR:O	2.53	0.41
1:B:744:GLN:C	1:B:745:THR:OG1	2.63	0.41
1:C:205:HIS:HD2	1:C:206:LYS:HD3	1.86	0.41
1:C:281:ILE:HD11	1:C:308:TYR:C	2.45	0.41
1:C:292:ARG:N	1:C:293:PRO:CD	2.83	0.41
1:C:401:MET:HE3	1:C:440:THR:OG1	2.21	0.41
1:D:19:ILE:HD12	1:D:20:PRO:HD2	2.01	0.41
1:D:322:ILE:HD12	1:D:799:HIS:NE2	2.35	0.41
1:D:588:ASN:N	1:D:588:ASN:ND2	2.69	0.41
1:A:727:TRP:CZ2	1:A:735:VAL:HG21	2.55	0.41
1:B:475:PHE:HA	1:B:478:ARG:HD2	2.01	0.41
1:C:137:VAL:O	1:C:141:ILE:HG13	2.20	0.41
1:C:304:ALA:HA	1:C:307:ARG:NH1	2.36	0.41
1:C:402:LEU:HD23	1:C:402:LEU:HA	1.78	0.41
1:C:454:LYS:HG3	1:C:455:GLU:H	1.85	0.41
1:D:488:ASN:O	1:D:491:ALA:HB3	2.20	0.41
1:D:647:ARG:HG2	1:D:675:GLY:HA2	2.00	0.41
1:D:801:LYS:CE	1:D:801:LYS:O	2.69	0.41
1:A:109:ILE:HG13	1:A:149:ALA:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:151:PHE:CD1	1:A:183:MET:HB3	2.56	0.41
1:A:518:TYR:CD1	1:A:518:TYR:C	2.98	0.41
1:A:810:ILE:HB	1:A:813:SER:HB3	2.02	0.41
1:A:828:VAL:HG11	1:A:883:ALA:HA	2.02	0.41
1:B:110:LYS:HE2	1:B:112:GLU:OE1	2.20	0.41
1:B:473:VAL:HG13	1:B:474:PRO:HD2	2.03	0.41
1:B:476:PRO:HG2	5:B:2209:HOH:O	2.19	0.41
1:B:596:THR:HB	5:B:2263:HOH:O	2.20	0.41
1:B:882:PHE:N	1:B:882:PHE:CD1	2.84	0.41
1:C:32:LEU:HD12	1:C:32:LEU:HA	1.74	0.41
1:C:416:PHE:O	1:C:418:TYR:CE1	2.74	0.41
1:C:860:LYS:O	1:C:862:PRO:CD	2.69	0.41
1:D:23:THR:O	1:D:27:HIS:HB2	2.20	0.41
1:D:109:ILE:HD12	1:D:109:ILE:N	2.26	0.41
1:D:285:GLY:HA2	1:D:324:GLN:NE2	2.34	0.41
1:D:335:LEU:CD2	1:D:339:ASN:HD21	2.33	0.41
1:D:335:LEU:HD21	1:D:406:ASN:OD1	2.19	0.41
1:D:422:TRP:HZ2	1:D:781:ASN:OD1	2.02	0.41
1:D:543:ILE:CG2	1:D:559:VAL:HG11	2.50	0.41
1:D:553:GLU:HB2	5:D:2135:HOH:O	2.19	0.41
1:D:602:THR:CG2	1:D:604:GLU:HB2	2.49	0.41
1:D:712:ASP:OD2	1:D:714:LYS:HB2	2.20	0.41
2:H:11:DA:H2''	2:H:12:DT:O5'	2.19	0.41
1:A:269:GLN:HG2	1:A:404:GLN:OE1	2.21	0.41
1:A:748:ASN:HB2	1:A:753:GLY:CA	2.51	0.41
1:A:840:ASP:O	1:A:841:VAL:C	2.64	0.41
1:B:4:ILE:HD12	1:B:256:THR:HA	2.02	0.41
1:C:15:GLU:HB3	1:C:18:ALA:O	2.20	0.41
1:C:50:ARG:HG2	5:C:2039:HOH:O	2.19	0.41
1:C:277:PRO:HA	1:C:321:ASN:OD1	2.21	0.41
1:D:594:VAL:HA	1:D:609:VAL:HA	2.02	0.41
1:D:737:GLN:OE1	1:D:774:GLN:NE2	2.53	0.41
1:D:829:ARG:CG	1:D:829:ARG:NH1	2.79	0.41
2:E:5:DA:H2''	2:E:6:DT:O5'	2.19	0.41
1:A:665:LEU:HB2	5:A:2027:HOH:O	2.20	0.41
1:B:347:CYS:HA	1:B:348:PRO:HD3	1.93	0.41
1:B:516:PHE:HB2	5:B:2226:HOH:O	2.21	0.41
1:C:206:LYS:HD3	1:C:206:LYS:H	1.85	0.41
1:C:229:LEU:HD11	1:C:242:GLU:CG	2.50	0.41
1:C:549:MET:CE	1:C:841:VAL:HG21	2.50	0.41
1:C:778:ILE:HA	1:C:778:ILE:HD12	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:220:LEU:HD12	1:D:220:LEU:C	2.45	0.41
1:D:656:GLN:HB3	1:D:657:PRO:HD3	2.03	0.41
1:D:772:HIS:CD2	2:N:8:DG:H5''	2.55	0.41
4:G:1:DG:C2	4:G:2:DT:O4	2.73	0.41
1:A:93:LYS:HA	1:A:99:ARG:HH22	1.76	0.41
1:A:332:LYS:NZ	1:A:410:ASN:ND2	2.68	0.41
1:A:656:GLN:HB3	1:A:657:PRO:HD3	2.03	0.41
1:A:669:GLN:CG	1:A:672:GLN:NE2	2.64	0.41
1:A:810:ILE:HG22	3:F:8:U:H5'	2.01	0.41
1:B:6:ILE:CG2	1:B:10:ASP:CG	2.93	0.41
1:B:257:ARG:HA	5:B:2125:HOH:O	2.20	0.41
1:B:489:ILE:CG2	1:B:518:TYR:HD1	2.32	0.41
1:B:551:ARG:NE	5:B:2240:HOH:O	2.54	0.41
1:B:577:LYS:HE2	1:B:687:VAL:HG23	2.01	0.41
1:B:871:ASN:O	1:B:873:ARG:N	2.53	0.41
1:C:59:LEU:C	1:C:61:ALA:N	2.79	0.41
1:C:269:GLN:HE22	1:C:407:LYS:HZ3	1.68	0.41
1:C:286:TYR:CD2	1:C:294:LEU:HD11	2.56	0.41
1:C:308:TYR:HA	1:C:311:VAL:CG2	2.50	0.41
1:C:308:TYR:O	1:C:309:GLU:C	2.63	0.41
1:C:507:SER:HA	1:C:508:PRO:HD2	1.85	0.41
1:C:632:ARG:HD2	1:C:653:ASP:OD2	2.20	0.41
1:C:754:GLN:HB3	1:C:755:PHE:H	1.53	0.41
1:D:150:ARG:O	1:D:153:ARG:HB3	2.21	0.41
1:D:777:GLY:O	1:D:781:ASN:HB2	2.20	0.41
1:D:846:TYR:CE1	1:D:850:ALA:HB2	2.55	0.41
4:G:7:DT:C7	5:G:2002:HOH:O	2.68	0.41
1:A:2:ASN:N	5:A:2002:HOH:O	2.53	0.41
1:A:189:ASP:OD2	1:A:189:ASP:C	2.63	0.41
1:A:402:LEU:HD23	1:A:402:LEU:HA	1.82	0.41
1:A:526:LEU:HA	1:A:526:LEU:HD23	1.86	0.41
1:B:231:ARG:NH2	5:B:2110:HOH:O	2.54	0.41
1:B:461:LYS:O	1:B:462:ILE:C	2.63	0.41
1:B:582:LEU:HB3	1:B:621:LEU:HD21	2.03	0.41
1:B:791:LEU:HA	1:B:814:PHE:HE2	1.85	0.41
1:C:164:LYS:O	1:C:168:GLU:OE1	2.39	0.41
1:C:630:THR:O	1:C:634:VAL:CG1	2.63	0.41
1:C:645:GLY:HA3	2:K:10:DC:OP2	2.21	0.41
1:D:204:TRP:HB3	5:D:2057:HOH:O	2.20	0.41
1:D:423:ARG:HE	1:D:781:ASN:HD22	1.67	0.41
1:D:553:GLU:H	1:D:553:GLU:CD	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:611:LEU:HB2	1:D:616:LEU:HD21	2.02	0.41
1:D:620:TRP:CD2	1:D:677:MET:HE3	2.55	0.41
1:D:859:ASP:OD2	1:D:859:ASP:C	2.64	0.41
1:D:860:LYS:O	1:D:860:LYS:HD3	2.21	0.41
2:H:15:DC:H2''	2:H:16:DC:O5'	2.21	0.41
1:A:6:ILE:O	1:A:8:LYS:N	2.42	0.41
1:A:73:LEU:HA	1:A:73:LEU:HD23	1.60	0.41
1:A:120:LYS:CG	1:A:752:LEU:HD21	2.49	0.41
1:A:229:LEU:HD11	1:A:242:GLU:CG	2.51	0.41
1:A:485:ASN:O	1:A:486:HIS:C	2.62	0.41
1:A:497:LEU:HA	1:A:497:LEU:HD23	1.77	0.41
1:A:518:TYR:O	1:A:522:GLN:HG2	2.21	0.41
1:A:582:LEU:HD23	1:A:582:LEU:HA	1.89	0.41
1:A:669:GLN:O	1:A:670:PRO:C	2.62	0.41
1:A:711:LYS:HA	1:A:719:LEU:HD13	2.03	0.41
1:A:753:GLY:O	1:A:754:GLN:HG2	2.20	0.41
1:A:806:SER:O	1:A:816:THR:HG22	2.19	0.41
1:B:13:ASP:OD1	1:B:291:ARG:NH1	2.51	0.41
1:B:98:LYS:HE2	1:B:98:LYS:HB3	1.78	0.41
1:B:137:VAL:HG12	1:B:217:ILE:HD11	2.01	0.41
1:B:198:GLY:O	1:B:199:GLU:HB2	2.21	0.41
1:B:276:LYS:NZ	1:B:283:GLY:O	2.40	0.41
1:B:386:ARG:HE	3:I:5:C:P	2.44	0.41
1:B:395:ARG:O	1:B:395:ARG:HG3	2.20	0.41
1:B:398:LEU:C	1:B:398:LEU:HD22	2.45	0.41
1:B:401:MET:HE2	1:B:432:PHE:CD1	2.56	0.41
1:B:495:SER:HB2	1:B:498:GLU:HB2	2.03	0.41
1:C:6:ILE:O	1:C:8:LYS:N	2.43	0.41
1:C:44:TYR:OH	1:C:292:ARG:HB3	2.21	0.41
1:C:540:CYS:O	1:C:541:SER:C	2.62	0.41
1:D:8:LYS:HB3	1:D:9:ASN:H	1.49	0.41
1:D:60:LYS:HB3	1:D:60:LYS:HE2	1.68	0.41
1:D:312:TYR:CZ	1:D:314:PRO:HG3	2.55	0.41
1:D:326:THR:HG23	5:D:2087:HOH:O	2.20	0.41
1:D:341:ILE:HG12	1:D:341:ILE:H	1.73	0.41
1:D:425:ARG:NH1	1:D:784:HIS:CE1	2.89	0.41
1:D:437:ASN:O	1:D:441:LYS:HG3	2.21	0.41
1:D:452:ILE:HD11	1:D:457:TYR:HA	2.02	0.41
1:D:468:ALA:HA	1:D:505:GLN:HB3	2.03	0.41
1:D:472:LYS:HD2	1:D:472:LYS:HA	1.96	0.41
1:D:700:LYS:NZ	1:D:700:LYS:CB	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:7:DT:H72	5:G:2008:HOH:O	2.21	0.41
1:A:416:PHE:HA	1:A:417:PRO:HD2	1.99	0.41
1:A:853:LEU:O	1:A:854:HIS:C	2.62	0.41
1:B:247:ALA:HA	1:B:248:PRO:HD3	1.92	0.41
1:B:476:PRO:HG2	5:B:2249:HOH:O	2.21	0.41
1:C:664:GLY:HA2	1:C:667:PHE:HD2	1.86	0.41
1:D:6:ILE:C	1:D:8:LYS:H	2.27	0.41
1:D:70:ALA:O	1:D:74:ILE:HG13	2.21	0.41
1:D:563:PRO:HB3	1:D:877:GLU:O	2.21	0.41
1:D:619:GLN:NE2	1:D:666:MET:O	2.54	0.41
1:D:643:GLU:O	1:D:644:PHE:C	2.64	0.41
1:D:652:GLU:HA	1:D:656:GLN:HB2	2.02	0.41
1:A:720:ARG:HD3	1:A:854:HIS:HB2	2.02	0.40
1:A:775:GLU:O	1:A:775:GLU:HG2	2.20	0.40
1:B:324:GLN:HG3	1:B:417:PRO:HA	2.01	0.40
1:B:347:CYS:SG	1:B:350:GLU:HG3	2.62	0.40
1:B:353:PRO:HB2	5:B:2164:HOH:O	2.21	0.40
1:B:416:PHE:CE1	1:B:432:PHE:O	2.75	0.40
1:C:120:LYS:HZ1	1:C:752:LEU:HG	1.85	0.40
1:C:154:ILE:HA	1:C:158:GLU:HB2	2.02	0.40
1:C:430:SER:O	1:C:433:ASN:ND2	2.46	0.40
1:D:352:ILE:CG2	5:D:2101:HOH:O	2.65	0.40
1:D:840:ASP:O	1:D:842:LEU:N	2.54	0.40
4:M:4:DG:H1'	4:M:5:DA:C8	2.56	0.40
1:A:51:PHE:CE2	1:A:261:LEU:HD23	2.56	0.40
1:A:292:ARG:O	1:A:292:ARG:CG	2.66	0.40
1:A:305:LEU:HA	1:A:305:LEU:HD23	1.85	0.40
1:A:389:LYS:HA	1:A:392:LYS:HE3	2.03	0.40
1:A:419:ASN:HB3	1:A:420:MET:H	1.77	0.40
1:B:269:GLN:C	1:B:430:SER:HB3	2.46	0.40
1:B:292:ARG:N	1:B:293:PRO:HD3	2.37	0.40
1:B:710:VAL:HG13	1:B:710:VAL:O	2.20	0.40
1:B:749:LEU:CD2	5:B:2088:HOH:O	2.64	0.40
1:C:53:LYS:O	1:C:56:GLU:HB3	2.21	0.40
1:C:126:LEU:HD11	1:C:227:VAL:HG11	2.04	0.40
1:C:290:GLY:C	1:C:292:ARG:H	2.30	0.40
1:C:468:ALA:HA	1:C:505:GLN:HB3	2.02	0.40
1:C:651:LEU:O	1:C:656:GLN:HB2	2.21	0.40
1:D:134:VAL:CG1	5:D:2067:HOH:O	2.69	0.40
1:D:247:ALA:HB3	1:D:250:TYR:HB2	2.03	0.40
1:D:291:ARG:HA	1:D:291:ARG:HD3	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:551:ARG:HH12	1:D:872:LEU:HD12	1.85	0.40
1:A:74:ILE:CG2	1:A:755:PHE:HZ	2.34	0.40
1:A:160:LYS:NZ	4:G:9:DC:OP1	2.54	0.40
1:A:577:LYS:HA	1:A:580:GLU:CD	2.46	0.40
1:A:632:ARG:NH1	5:A:2251:HOH:O	2.55	0.40
1:A:789:SER:HA	1:A:792:ARG:NH2	2.36	0.40
1:C:157:LEU:O	1:C:158:GLU:C	2.63	0.40
1:C:313:MET:CE	1:C:317:TYR:CE2	3.04	0.40
1:C:859:ASP:C	1:C:861:MET:H	2.28	0.40
1:D:236:VAL:HB	1:D:239:GLN:HB2	2.04	0.40
1:D:345:LYS:C	5:D:2095:HOH:O	2.63	0.40
1:D:475:PHE:HD1	1:D:475:PHE:N	2.17	0.40
1:D:729:THR:HG23	1:D:729:THR:H	1.60	0.40
1:A:141:ILE:HG22	5:A:2072:HOH:O	2.21	0.40
1:A:308:TYR:HA	1:A:311:VAL:HG21	2.03	0.40
1:B:158:GLU:CG	1:B:195:LEU:HD22	2.36	0.40
1:C:57:ARG:NH1	2:K:18:DC:OP2	2.55	0.40
1:C:373:ALA:CB	1:C:377:TRP:HE1	2.31	0.40
1:C:463:HIS:HA	1:C:466:ASN:ND2	2.34	0.40
1:C:632:ARG:CG	5:C:2145:HOH:O	2.69	0.40
1:D:9:ASN:C	1:D:12:SER:HB3	2.46	0.40
1:D:85:ILE:H	1:D:85:ILE:HG13	1.62	0.40
1:D:105:PHE:C	1:D:107:GLN:N	2.80	0.40
2:E:16:DC:H2''	2:E:17:DG:O5'	2.22	0.40
1:A:30:GLU:CG	1:A:34:ARG:NH2	2.84	0.40
1:A:58:GLN:CG	1:A:67:ASN:HD22	2.34	0.40
1:A:59:LEU:O	1:A:61:ALA:N	2.55	0.40
1:A:133:THR:C	1:A:135:GLN:H	2.29	0.40
1:A:305:LEU:C	1:A:305:LEU:CD2	2.94	0.40
1:A:505:GLN:O	1:A:508:PRO:HD3	2.22	0.40
1:B:46:MET:HE1	1:B:269:GLN:NE2	2.36	0.40
1:B:155:ARG:CB	5:B:2088:HOH:O	2.65	0.40
1:B:446:LEU:O	1:B:531:SER:OG	2.37	0.40
1:B:737:GLN:O	1:B:774:GLN:NE2	2.55	0.40
1:C:103:PHE:CD2	1:C:103:PHE:C	3.00	0.40
1:C:170:LEU:HD22	1:C:179:LYS:HE2	2.04	0.40
1:C:172:LYS:HB3	1:C:172:LYS:HE3	1.78	0.40
1:C:594:VAL:HA	1:C:609:VAL:HA	2.03	0.40
1:C:791:LEU:HA	1:C:814:PHE:HE2	1.86	0.40
1:D:109:ILE:H	1:D:109:ILE:CD1	2.27	0.40
1:D:130:ASP:O	1:D:132:THR:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:882:PHE:HD1	1:D:882:PHE:N	2.09	0.40
4:G:7:DT:H73	5:G:2002:HOH:O	2.21	0.40
2:K:9:DA:N6	4:M:1:DG:H21	2.18	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	851/883 (96%)	740 (87%)	94 (11%)	17 (2%)	6	22
1	B	851/883 (96%)	736 (86%)	98 (12%)	17 (2%)	6	22
1	C	851/883 (96%)	737 (87%)	93 (11%)	21 (2%)	4	17
1	D	851/883 (96%)	735 (86%)	96 (11%)	20 (2%)	4	18
All	All	3404/3532 (96%)	2948 (87%)	381 (11%)	75 (2%)	5	20

All (75) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	194	GLY
1	A	199	GLU
1	A	539	SER
1	A	663	LYS
1	A	755	PHE
1	B	194	GLY
1	B	199	GLU
1	B	539	SER
1	B	755	PHE
1	C	194	GLY
1	C	199	GLU
1	C	539	SER

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Mol	Chain	Res	Type
1	C	755	PHE
1	D	194	GLY
1	D	199	GLU
1	D	539	SER
1	D	755	PHE
1	A	7	ALA
1	A	206	LYS
1	B	7	ALA
1	B	15	GLU
1	B	200	ALA
1	B	663	LYS
1	B	882	PHE
1	C	7	ALA
1	C	15	GLU
1	C	200	ALA
1	C	240	ASP
1	C	663	LYS
1	D	7	ALA
1	D	15	GLU
1	D	200	ALA
1	D	663	LYS
1	D	882	PHE
1	A	15	GLU
1	A	60	LYS
1	A	200	ALA
1	A	841	VAL
1	B	14	ILE
1	B	204	TRP
1	B	872	LEU
1	C	60	LYS
1	C	204	TRP
1	C	206	LYS
1	C	872	LEU
1	C	882	PHE
1	D	14	ILE
1	D	204	TRP
1	D	240	ASP
1	D	841	VAL
1	A	14	ILE
1	A	240	ASP
1	B	745	THR
1	C	631	LYS

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Mol	Chain	Res	Type
1	C	745	THR
1	C	841	VAL
1	D	872	LEU
1	A	745	THR
1	A	882	PHE
1	C	14	ILE
1	C	508	PRO
1	D	348	PRO
1	D	353	PRO
1	D	745	THR
1	A	353	PRO
1	B	240	ASP
1	B	631	LYS
1	B	841	VAL
1	D	60	LYS
1	D	508	PRO
1	B	4	ILE
1	C	4	ILE
1	C	348	PRO
1	D	4	ILE
1	A	810	ILE

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	703/729 (96%)	614 (87%)	89 (13%)	4	14
1	B	703/729 (96%)	603 (86%)	100 (14%)	3	11
1	C	703/729 (96%)	617 (88%)	86 (12%)	5	16
1	D	703/729 (96%)	620 (88%)	83 (12%)	5	17
All	All	2812/2916 (96%)	2454 (87%)	358 (13%)	4	14

All (358) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	ASN
1	A	16	LEU
1	A	32	LEU
1	A	36	GLN
1	A	50	ARG
1	A	56	GLU
1	A	64	VAL
1	A	77	LEU
1	A	92	VAL
1	A	96	ARG
1	A	99	ARG
1	A	101	THR
1	A	105	PHE
1	A	109	ILE
1	A	118	THR
1	A	119	ILE
1	A	121	THR
1	A	126	LEU
1	A	155	ARG
1	A	164	LYS
1	A	176	HIS
1	A	184	GLN
1	A	186	VAL
1	A	202	SER
1	A	206	LYS
1	A	228	SER
1	A	230	HIS
1	A	274	PRO
1	A	279	THR
1	A	281	ILE
1	A	305	LEU
1	A	311	VAL
1	A	335	LEU
1	A	343	LYS
1	A	379	ARG
1	A	387	LYS
1	A	391	ARG
1	A	398	LEU
1	A	399	GLU
1	A	402	LEU
1	A	422	TRP
1	A	423	ARG
1	A	435	GLN

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Mol	Chain	Res	Type
1	A	437	ASN
1	A	452	ILE
1	A	454	LYS
1	A	472	LYS
1	A	517	GLU
1	A	527	SER
1	A	553	GLU
1	A	559	VAL
1	A	561	LEU
1	A	573	ILE
1	A	576	LYS
1	A	577	LYS
1	A	583	GLN
1	A	591	ASP
1	A	593	GLU
1	A	601	ASN
1	A	632	ARG
1	A	633	SER
1	A	635	MET
1	A	654	THR
1	A	656	GLN
1	A	669	GLN
1	A	670	PRO
1	A	671	ASN
1	A	700	LYS
1	A	701	SER
1	A	710	VAL
1	A	713	LYS
1	A	714	LYS
1	A	722	ARG
1	A	731	ASP
1	A	735	VAL
1	A	738	GLU
1	A	741	LYS
1	A	744	GLN
1	A	746	ARG
1	A	766	ASP
1	A	786	GLN
1	A	816	THR
1	A	828	VAL
1	A	842	LEU
1	A	852	GLN

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Mol	Chain	Res	Type
1	A	859	ASP
1	A	867	LYS
1	A	877	GLU
1	A	882	PHE
1	B	16	LEU
1	B	19	ILE
1	B	21	PHE
1	B	27	HIS
1	B	32	LEU
1	B	39	LEU
1	B	46	MET
1	B	50	ARG
1	B	51	PHE
1	B	54	MET
1	B	56	GLU
1	B	64	VAL
1	B	74	ILE
1	B	84	ARG
1	B	141	ILE
1	B	143	ARG
1	B	164	LYS
1	B	165	ASN
1	B	168	GLU
1	B	170	LEU
1	B	192	SER
1	B	196	LEU
1	B	199	GLU
1	B	207	GLU
1	B	222	GLU
1	B	245	GLU
1	B	257	ARG
1	B	261	LEU
1	B	265	SER
1	B	272	VAL
1	B	274	PRO
1	B	281	ILE
1	B	289	ASN
1	B	292	ARG
1	B	305	LEU
1	B	307	ARG
1	B	322	ILE
1	B	333	LYS

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Mol	Chain	Res	Type
1	B	335	LEU
1	B	343	LYS
1	B	355	ILE
1	B	384	VAL
1	B	386	ARG
1	B	388	ASP
1	B	391	ARG
1	B	393	SER
1	B	398	LEU
1	B	412	LYS
1	B	422	TRP
1	B	423	ARG
1	B	430	SER
1	B	437	ASN
1	B	445	THR
1	B	473	VAL
1	B	477	GLU
1	B	479	ILE
1	B	480	LYS
1	B	495	SER
1	B	553	GLU
1	B	561	LEU
1	B	562	LEU
1	B	565	GLU
1	B	573	ILE
1	B	593	GLU
1	B	601	ASN
1	B	613	THR
1	B	626	THR
1	B	634	VAL
1	B	651	LEU
1	B	654	THR
1	B	668	THR
1	B	669	GLN
1	B	685	VAL
1	B	687	VAL
1	B	690	VAL
1	B	714	LYS
1	B	722	ARG
1	B	725	VAL
1	B	734	PRO
1	B	735	VAL

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Mol	Chain	Res	Type
1	B	745	THR
1	B	749	LEU
1	B	751	PHE
1	B	752	LEU
1	B	769	ILE
1	B	783	VAL
1	B	785	SER
1	B	786	GLN
1	B	787	ASP
1	B	801	LYS
1	B	810	ILE
1	B	818	PRO
1	B	828	VAL
1	B	829	ARG
1	B	831	THR
1	B	833	VAL
1	B	842	LEU
1	B	852	GLN
1	B	859	ASP
1	B	870	LEU
1	C	5	ASN
1	C	15	GLU
1	C	16	LEU
1	C	19	ILE
1	C	32	LEU
1	C	36	GLN
1	C	50	ARG
1	C	54	MET
1	C	56	GLU
1	C	120	LYS
1	C	132	THR
1	C	143	ARG
1	C	155	ARG
1	C	170	LEU
1	C	185	VAL
1	C	206	LYS
1	C	208	ASP
1	C	227	VAL
1	C	230	HIS
1	C	241	SER
1	C	261	LEU
1	C	266	PRO

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Mol	Chain	Res	Type
1	C	279	THR
1	C	281	ILE
1	C	291	ARG
1	C	293	PRO
1	C	301	SER
1	C	302	LYS
1	C	303	LYS
1	C	305	LEU
1	C	307	ARG
1	C	313	MET
1	C	350	GLU
1	C	374	LEU
1	C	378	LYS
1	C	379	ARG
1	C	397	SER
1	C	404	GLN
1	C	419	ASN
1	C	422	TRP
1	C	423	ARG
1	C	437	ASN
1	C	473	VAL
1	C	514	PHE
1	C	532	LEU
1	C	543	ILE
1	C	551	ARG
1	C	554	VAL
1	C	561	LEU
1	C	577	LYS
1	C	593	GLU
1	C	601	ASN
1	C	632	ARG
1	C	634	VAL
1	C	641	SER
1	C	643	GLU
1	C	652	GLU
1	C	654	THR
1	C	669	GLN
1	C	670	PRO
1	C	694	GLU
1	C	700	LYS
1	C	711	LYS
1	C	713	LYS

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Mol	Chain	Res	Type
1	C	730	PRO
1	C	731	ASP
1	C	734	PRO
1	C	735	VAL
1	C	744	GLN
1	C	749	LEU
1	C	752	LEU
1	C	754	GLN
1	C	755	PHE
1	C	768	GLU
1	C	783	VAL
1	C	786	GLN
1	C	787	ASP
1	C	801	LYS
1	C	814	PHE
1	C	816	THR
1	C	823	ASN
1	C	838	SER
1	C	855	GLU
1	C	869	ASN
1	C	870	LEU
1	C	882	PHE
1	D	5	ASN
1	D	16	LEU
1	D	19	ILE
1	D	27	HIS
1	D	36	GLN
1	D	48	GLU
1	D	50	ARG
1	D	52	ARG
1	D	54	MET
1	D	56	GLU
1	D	77	LEU
1	D	84	ARG
1	D	109	ILE
1	D	120	LYS
1	D	135	GLN
1	D	171	ASN
1	D	183	MET
1	D	274	PRO
1	D	279	THR
1	D	281	ILE

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Mol	Chain	Res	Type
1	D	294	LEU
1	D	305	LEU
1	D	315	GLU
1	D	316	VAL
1	D	333	LYS
1	D	335	LEU
1	D	341	ILE
1	D	343	LYS
1	D	346	HIS
1	D	351	ASP
1	D	384	VAL
1	D	388	ASP
1	D	391	ARG
1	D	393	SER
1	D	402	LEU
1	D	404	GLN
1	D	422	TRP
1	D	423	ARG
1	D	437	ASN
1	D	472	LYS
1	D	475	PHE
1	D	495	SER
1	D	539	SER
1	D	561	LEU
1	D	573	ILE
1	D	585	ASP
1	D	593	GLU
1	D	601	ASN
1	D	632	ARG
1	D	634	VAL
1	D	650	VAL
1	D	666	MET
1	D	685	VAL
1	D	689	VAL
1	D	690	VAL
1	D	700	LYS
1	D	701	SER
1	D	710	VAL
1	D	713	LYS
1	D	714	LYS
1	D	719	LEU
1	D	722	ARG

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Mol	Chain	Res	Type
1	D	730	PRO
1	D	735	VAL
1	D	743	ILE
1	D	746	ARG
1	D	748	ASN
1	D	750	MET
1	D	751	PHE
1	D	752	LEU
1	D	783	VAL
1	D	787	ASP
1	D	801	LYS
1	D	816	THR
1	D	824	LEU
1	D	829	ARG
1	D	831	THR
1	D	834	ASP
1	D	842	LEU
1	D	855	GLU
1	D	869	ASN
1	D	870	LEU
1	D	882	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (150) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	22	ASN
1	A	41	HIS
1	A	104	GLN
1	A	107	GLN
1	A	131	ASN
1	A	171	ASN
1	A	184	GLN
1	A	232	GLN
1	A	239	GLN
1	A	269	GLN
1	A	289	ASN
1	A	324	GLN
1	A	346	HIS
1	A	404	GLN
1	A	410	ASN
1	A	419	ASN
1	A	435	GLN

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Mol	Chain	Res	Type
1	A	437	ASN
1	A	463	HIS
1	A	485	ASN
1	A	486	HIS
1	A	529	ASN
1	A	544	GLN
1	A	583	GLN
1	A	588	ASN
1	A	601	ASN
1	A	619	GLN
1	A	656	GLN
1	A	669	GLN
1	A	672	GLN
1	A	726	HIS
1	A	737	GLN
1	A	772	HIS
1	A	781	ASN
1	A	786	GLN
1	A	790	HIS
1	A	811	HIS
1	A	823	ASN
1	A	852	GLN
1	A	854	HIS
1	A	871	ASN
1	B	9	ASN
1	B	58	GLN
1	B	161	HIS
1	B	169	GLN
1	B	171	ASN
1	B	205	HIS
1	B	232	GLN
1	B	239	GLN
1	B	324	GLN
1	B	404	GLN
1	B	411	HIS
1	B	419	ASN
1	B	435	GLN
1	B	437	ASN
1	B	463	HIS
1	B	485	ASN
1	B	499	ASN
1	B	529	ASN

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Mol	Chain	Res	Type
1	B	583	GLN
1	B	619	GLN
1	B	656	GLN
1	B	669	GLN
1	B	671	ASN
1	B	672	GLN
1	B	726	HIS
1	B	737	GLN
1	B	744	GLN
1	B	748	ASN
1	B	754	GLN
1	B	781	ASN
1	B	786	GLN
1	B	811	HIS
1	B	823	ASN
1	B	852	GLN
1	B	854	HIS
1	C	5	ASN
1	C	86	ASN
1	C	107	GLN
1	C	171	ASN
1	C	211	HIS
1	C	233	ASN
1	C	239	GLN
1	C	269	GLN
1	C	289	ASN
1	C	324	GLN
1	C	404	GLN
1	C	410	ASN
1	C	419	ASN
1	C	435	GLN
1	C	437	ASN
1	C	466	ASN
1	C	485	ASN
1	C	486	HIS
1	C	499	ASN
1	C	544	GLN
1	C	545	HIS
1	C	568	GLN
1	C	588	ASN
1	C	656	GLN
1	C	726	HIS

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Mol	Chain	Res	Type
1	C	737	GLN
1	C	744	GLN
1	C	748	ASN
1	C	754	GLN
1	C	781	ASN
1	C	786	GLN
1	C	811	HIS
1	C	823	ASN
1	C	848	GLN
1	C	854	HIS
1	C	869	ASN
1	C	871	ASN
1	D	86	ASN
1	D	104	GLN
1	D	171	ASN
1	D	184	GLN
1	D	232	GLN
1	D	233	ASN
1	D	239	GLN
1	D	289	ASN
1	D	300	HIS
1	D	324	GLN
1	D	339	ASN
1	D	346	HIS
1	D	406	ASN
1	D	410	ASN
1	D	419	ASN
1	D	435	GLN
1	D	437	ASN
1	D	463	HIS
1	D	485	ASN
1	D	522	GLN
1	D	588	ASN
1	D	601	ASN
1	D	649	GLN
1	D	671	ASN
1	D	726	HIS
1	D	737	GLN
1	D	744	GLN
1	D	772	HIS
1	D	774	GLN
1	D	781	ASN

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Mol	Chain	Res	Type
1	D	786	GLN
1	D	811	HIS
1	D	823	ASN
1	D	852	GLN
1	D	854	HIS
1	D	869	ASN
1	D	871	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
3	F	7/12 (58%)	0	0
3	I	7/12 (58%)	0	0
3	L	7/12 (58%)	0	0
3	O	7/12 (58%)	0	0
All	All	28/48 (58%)	0	0

There are no RNA backbone outliers to report.

There are no RNA pucker outliers to report.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.