



# Full wwPDB X-ray Structure Validation Report ⓘ

Sep 8, 2016 – 05:31 PM EDT

PDB ID : 4YLP  
Title : E. coli Transcription Initiation Complex - 16-bp spacer and 5-nt RNA  
Authors : Zuo, Y.; Steitz, T.A.  
Deposited on : 2015-03-05  
Resolution : 5.50 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](mailto:validation@mail.wwpdb.org)

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Mogul : unknown  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20027939  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : rb-20027939

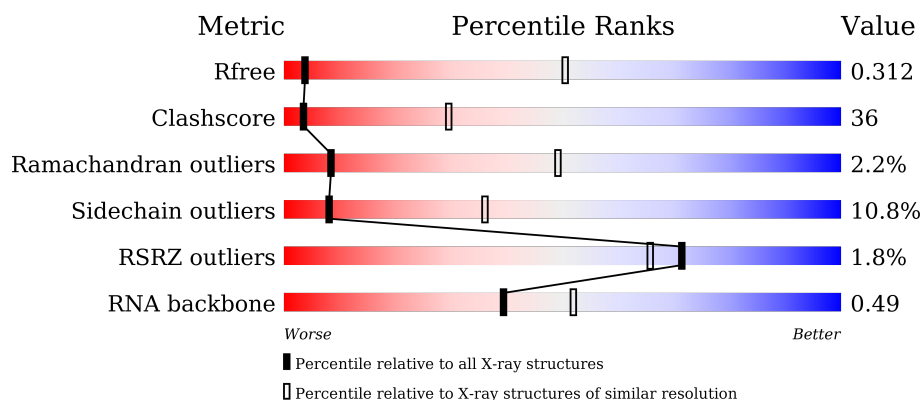
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 5.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	91344	1015 (7.38-3.62)
Clashscore	102246	1020 (7.10-3.70)
Ramachandran outliers	100387	1014 (7.36-3.64)
Sidechain outliers	100360	1013 (7.38-3.62)
RSRZ outliers	91569	1014 (7.38-3.62)
RNA backbone	2183	1101 (7.80-2.80)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	242	
1	B	242	
1	G	242	
1	H	242	

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Mol	Chain	Length	Quality of chain
1	M	242	
1	N	242	
2	C	1342	
2	I	1342	
2	O	1342	
3	D	1407	
3	J	1407	
3	P	1407	
4	E	90	
4	K	90	
4	Q	90	
5	F	628	
5	L	628	
5	R	628	
6	1	49	
6	4	49	
6	7	49	
7	2	49	
7	5	49	
7	8	49	
8	3	5	
8	6	5	
8	9	5	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
10	MG	P	1503	-	-	-	X
9	ZN	D	1502	-	-	X	-
9	ZN	P	1501	-	-	X	-
9	ZN	P	1502	-	-	X	-

## 2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 94668 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 subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	230	Total	C	N	O	S	0	0	0
			1787	1112	317	352	6			
1	B	228	Total	C	N	O	S	0	0	0
			1767	1100	312	349	6			
1	G	230	Total	C	N	O	S	0	0	0
			1787	1112	317	352	6			
1	H	228	Total	C	N	O	S	0	0	0
			1767	1100	312	349	6			
1	M	230	Total	C	N	O	S	0	0	0
			1787	1112	317	352	6			
1	N	228	Total	C	N	O	S	0	0	0
			1767	1100	312	349	6			

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-6	ALA	-	expression tag	UNP A7ZSI4
A	-5	HIS	-	expression tag	UNP A7ZSI4
A	-4	HIS	-	expression tag	UNP A7ZSI4
A	-3	HIS	-	expression tag	UNP A7ZSI4
A	-2	HIS	-	expression tag	UNP A7ZSI4
A	-1	HIS	-	expression tag	UNP A7ZSI4
A	0	HIS	-	expression tag	UNP A7ZSI4
B	-6	ALA	-	expression tag	UNP A7ZSI4
B	-5	HIS	-	expression tag	UNP A7ZSI4
B	-4	HIS	-	expression tag	UNP A7ZSI4
B	-3	HIS	-	expression tag	UNP A7ZSI4
B	-2	HIS	-	expression tag	UNP A7ZSI4
B	-1	HIS	-	expression tag	UNP A7ZSI4
B	0	HIS	-	expression tag	UNP A7ZSI4
G	-6	ALA	-	expression tag	UNP A7ZSI4
G	-5	HIS	-	expression tag	UNP A7ZSI4
G	-4	HIS	-	expression tag	UNP A7ZSI4

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Chain	Residue	Modelled	Actual	Comment	Reference
G	-3	HIS	-	expression tag	UNP A7ZSI4
G	-2	HIS	-	expression tag	UNP A7ZSI4
G	-1	HIS	-	expression tag	UNP A7ZSI4
G	0	HIS	-	expression tag	UNP A7ZSI4
H	-6	ALA	-	expression tag	UNP A7ZSI4
H	-5	HIS	-	expression tag	UNP A7ZSI4
H	-4	HIS	-	expression tag	UNP A7ZSI4
H	-3	HIS	-	expression tag	UNP A7ZSI4
H	-2	HIS	-	expression tag	UNP A7ZSI4
H	-1	HIS	-	expression tag	UNP A7ZSI4
H	0	HIS	-	expression tag	UNP A7ZSI4
M	-6	ALA	-	expression tag	UNP A7ZSI4
M	-5	HIS	-	expression tag	UNP A7ZSI4
M	-4	HIS	-	expression tag	UNP A7ZSI4
M	-3	HIS	-	expression tag	UNP A7ZSI4
M	-2	HIS	-	expression tag	UNP A7ZSI4
M	-1	HIS	-	expression tag	UNP A7ZSI4
M	0	HIS	-	expression tag	UNP A7ZSI4
N	-6	ALA	-	expression tag	UNP A7ZSI4
N	-5	HIS	-	expression tag	UNP A7ZSI4
N	-4	HIS	-	expression tag	UNP A7ZSI4
N	-3	HIS	-	expression tag	UNP A7ZSI4
N	-2	HIS	-	expression tag	UNP A7ZSI4
N	-1	HIS	-	expression tag	UNP A7ZSI4
N	0	HIS	-	expression tag	UNP A7ZSI4

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1341	Total	C	N	O	S	0	0	0
			10576	6636	1842	2055	43			
2	I	1341	Total	C	N	O	S	0	0	0
			10576	6636	1842	2055	43			
2	O	1341	Total	C	N	O	S	0	0	0
			10576	6636	1842	2055	43			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1362	Total	C	N	O	S	0	0	0
			10568	6633	1887	1998	50			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	J	1362	Total	C	N	O	S	0	0	0
			10568	6633	1887	1998	50			
3	P	1362	Total	C	N	O	S	0	0	0
			10568	6633	1887	1998	50			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	90	Total	C	N	O	S	0	0	0
			708	430	136	141	1			
4	K	90	Total	C	N	O	S	0	0	0
			708	430	136	141	1			
4	Q	90	Total	C	N	O	S	0	0	0
			708	430	136	141	1			

- Molecule 5 is a protein called RNA polymerase sigma factor RpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	497	Total	C	N	O	S	0	0	0
			4022	2512	719	768	23			
5	L	497	Total	C	N	O	S	0	0	0
			4022	2512	719	768	23			
5	R	497	Total	C	N	O	S	0	0	0
			4022	2512	719	768	23			

There are 45 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	-14	MET	-	expression tag	UNP P00579
F	-13	ARG	-	expression tag	UNP P00579
F	-12	GLY	-	expression tag	UNP P00579
F	-11	SER	-	expression tag	UNP P00579
F	-10	HIS	-	expression tag	UNP P00579
F	-9	HIS	-	expression tag	UNP P00579
F	-8	HIS	-	expression tag	UNP P00579
F	-7	HIS	-	expression tag	UNP P00579
F	-6	HIS	-	expression tag	UNP P00579
F	-5	HIS	-	expression tag	UNP P00579
F	-4	THR	-	expression tag	UNP P00579
F	-3	ASP	-	expression tag	UNP P00579
F	-2	GLN	-	expression tag	UNP P00579
F	-1	PHE	-	expression tag	UNP P00579

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Chain	Residue	Modelled	Actual	Comment	Reference
F	0	THR	-	expression tag	UNP P00579
L	-14	MET	-	expression tag	UNP P00579
L	-13	ARG	-	expression tag	UNP P00579
L	-12	GLY	-	expression tag	UNP P00579
L	-11	SER	-	expression tag	UNP P00579
L	-10	HIS	-	expression tag	UNP P00579
L	-9	HIS	-	expression tag	UNP P00579
L	-8	HIS	-	expression tag	UNP P00579
L	-7	HIS	-	expression tag	UNP P00579
L	-6	HIS	-	expression tag	UNP P00579
L	-5	HIS	-	expression tag	UNP P00579
L	-4	THR	-	expression tag	UNP P00579
L	-3	ASP	-	expression tag	UNP P00579
L	-2	GLN	-	expression tag	UNP P00579
L	-1	PHE	-	expression tag	UNP P00579
L	0	THR	-	expression tag	UNP P00579
R	-14	MET	-	expression tag	UNP P00579
R	-13	ARG	-	expression tag	UNP P00579
R	-12	GLY	-	expression tag	UNP P00579
R	-11	SER	-	expression tag	UNP P00579
R	-10	HIS	-	expression tag	UNP P00579
R	-9	HIS	-	expression tag	UNP P00579
R	-8	HIS	-	expression tag	UNP P00579
R	-7	HIS	-	expression tag	UNP P00579
R	-6	HIS	-	expression tag	UNP P00579
R	-5	HIS	-	expression tag	UNP P00579
R	-4	THR	-	expression tag	UNP P00579
R	-3	ASP	-	expression tag	UNP P00579
R	-2	GLN	-	expression tag	UNP P00579
R	-1	PHE	-	expression tag	UNP P00579
R	0	THR	-	expression tag	UNP P00579

- Molecule 6 is a DNA chain called NT strand DNA (49-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	1	49	Total	C	N	O	P	0	0	0
			996	476	178	294	48			
6	4	49	Total	C	N	O	P	0	0	0
			996	476	178	294	48			
6	7	49	Total	C	N	O	P	0	0	0
			996	476	178	294	48			



- Molecule 7 is a DNA chain called T strand DNA (49-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	2	49	Total	C	N	O	P	0	0	0
			1012	481	191	292	48			
7	5	49	Total	C	N	O	P	0	0	0
			1012	481	191	292	48			
7	8	49	Total	C	N	O	P	0	0	0
			1012	481	191	292	48			

- Molecule 8 is a RNA chain called RNA (5'-R\*(GTP))-R(P\*AP\*GP\*UP\*C)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	3	5	Total	C	N	O	P	0	0	0
			117	48	20	42	7			
8	6	5	Total	C	N	O	P	0	0	0
			117	48	20	42	7			
8	9	5	Total	C	N	O	P	0	0	0
			117	48	20	42	7			

- Molecule 9 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	P	2	Total	Zn	0	0
			2	2		
9	J	2	Total	Zn	0	0
			2	2		
9	D	2	Total	Zn	0	0
			2	2		

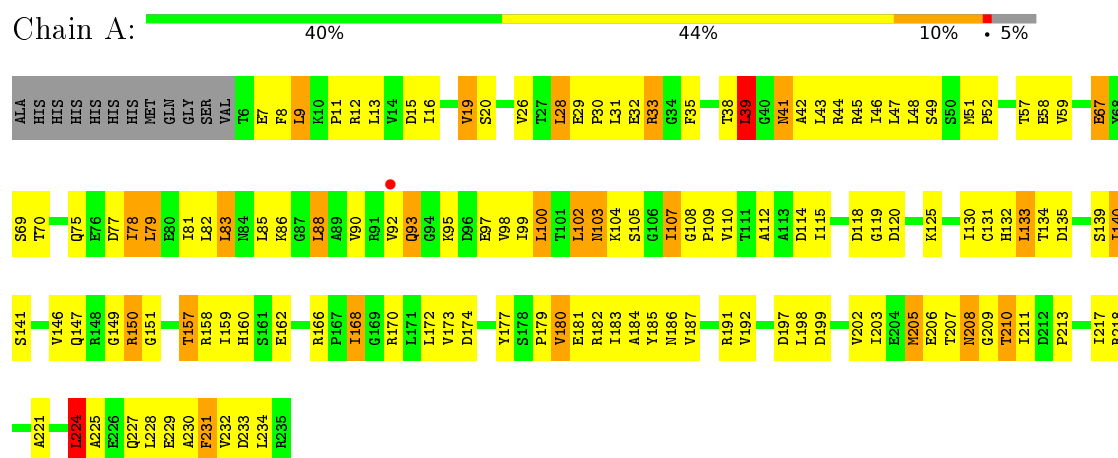
- Molecule 10 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	P	1	Total	Mg	0	0
			1	1		
10	J	1	Total	Mg	0	0
			1	1		
10	D	1	Total	Mg	0	0
			1	1		

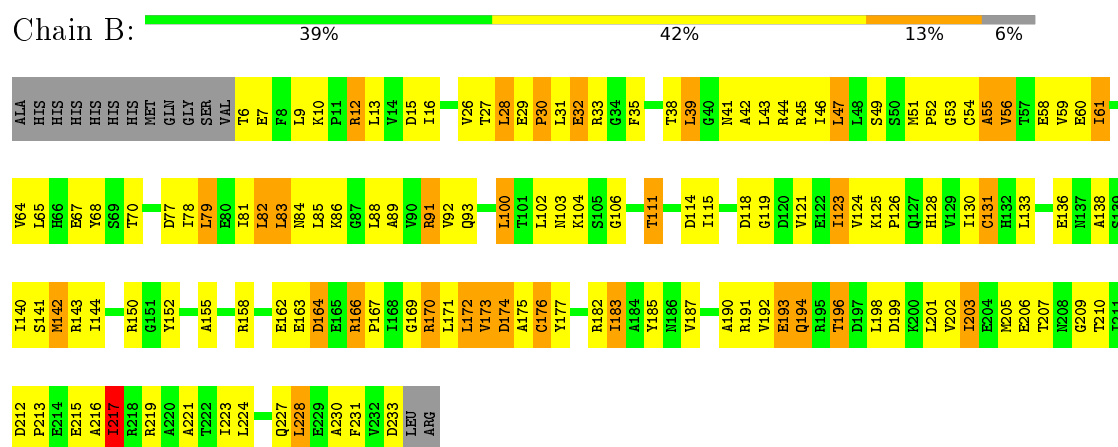
### 3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

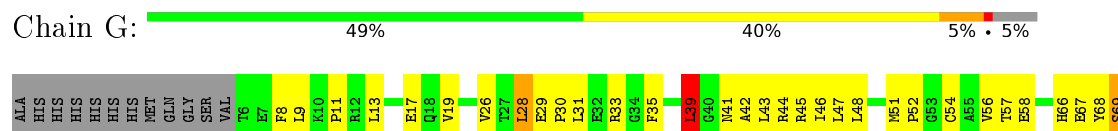
#### • Molecule 1: DNA-directed RNA polymerase subunit alpha

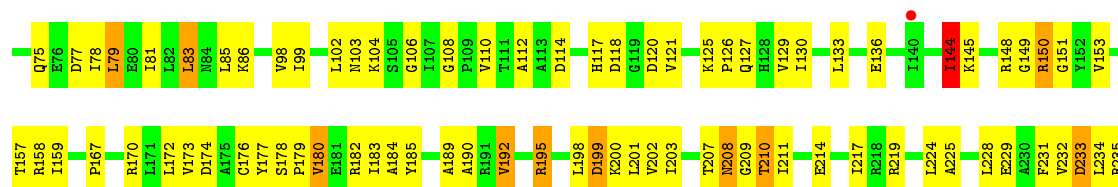


#### • Molecule 1: DNA-directed RNA polymerase subunit alpha

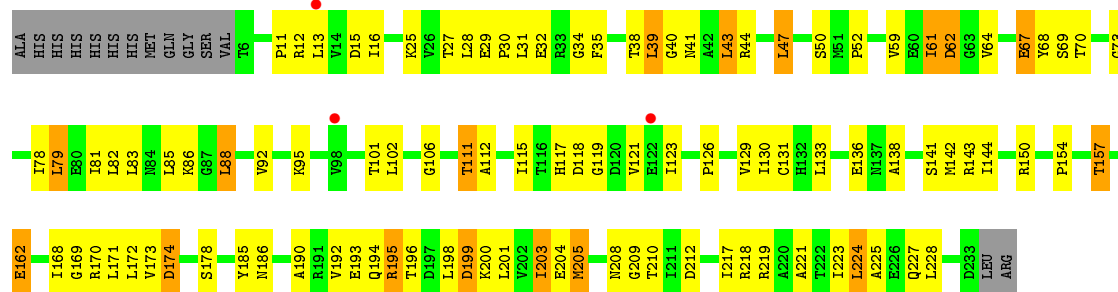


#### • Molecule 1: DNA-directed RNA polymerase subunit alpha

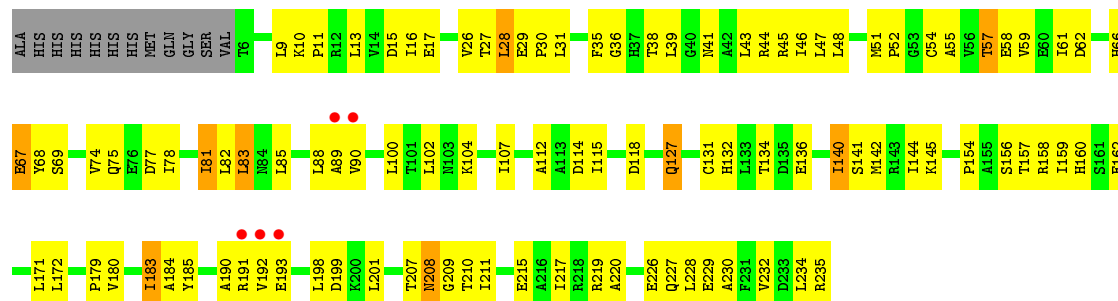




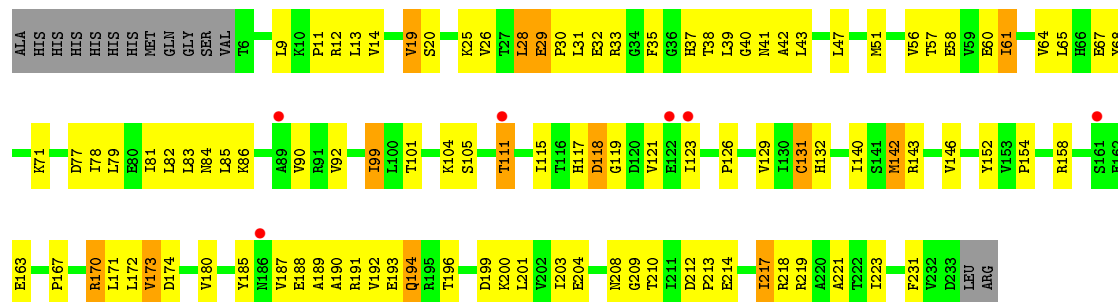
• Molecule 1: DNA-directed RNA polymerase subunit alpha



• Molecule 1: DNA-directed RNA polymerase subunit alpha



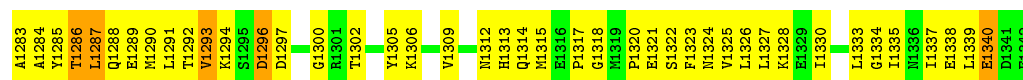
• Molecule 1: DNA-directed RNA polymerase subunit alpha



• Molecule 2: DNA-directed RNA polymerase subunit beta

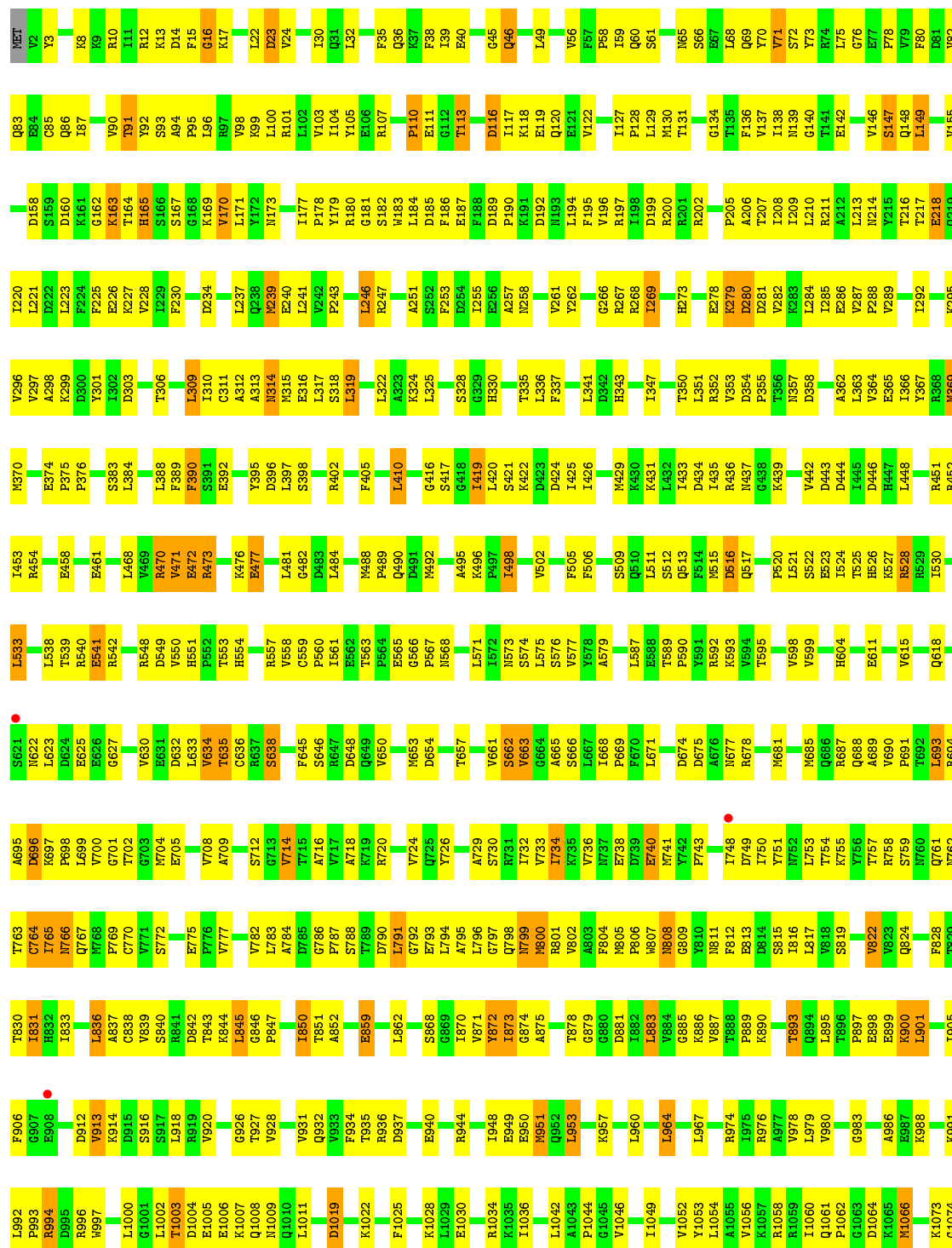


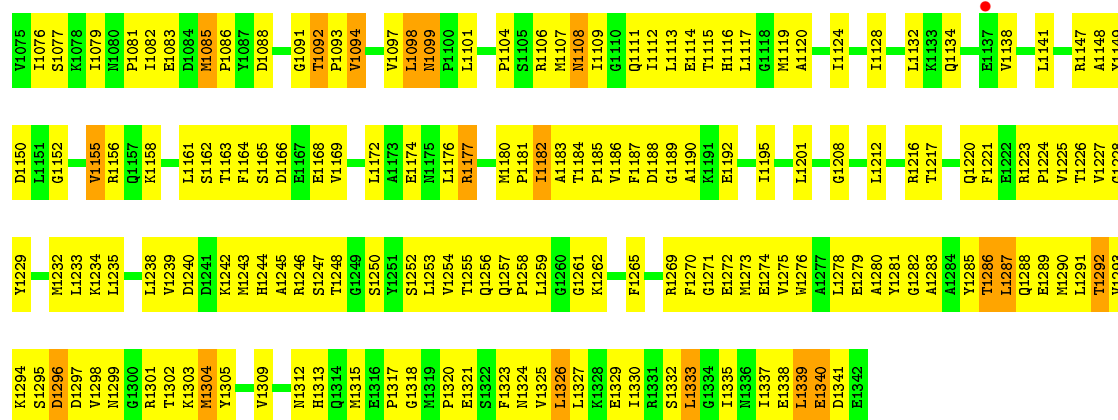




• Molecule 2: DNA-directed RNA polymerase subunit beta

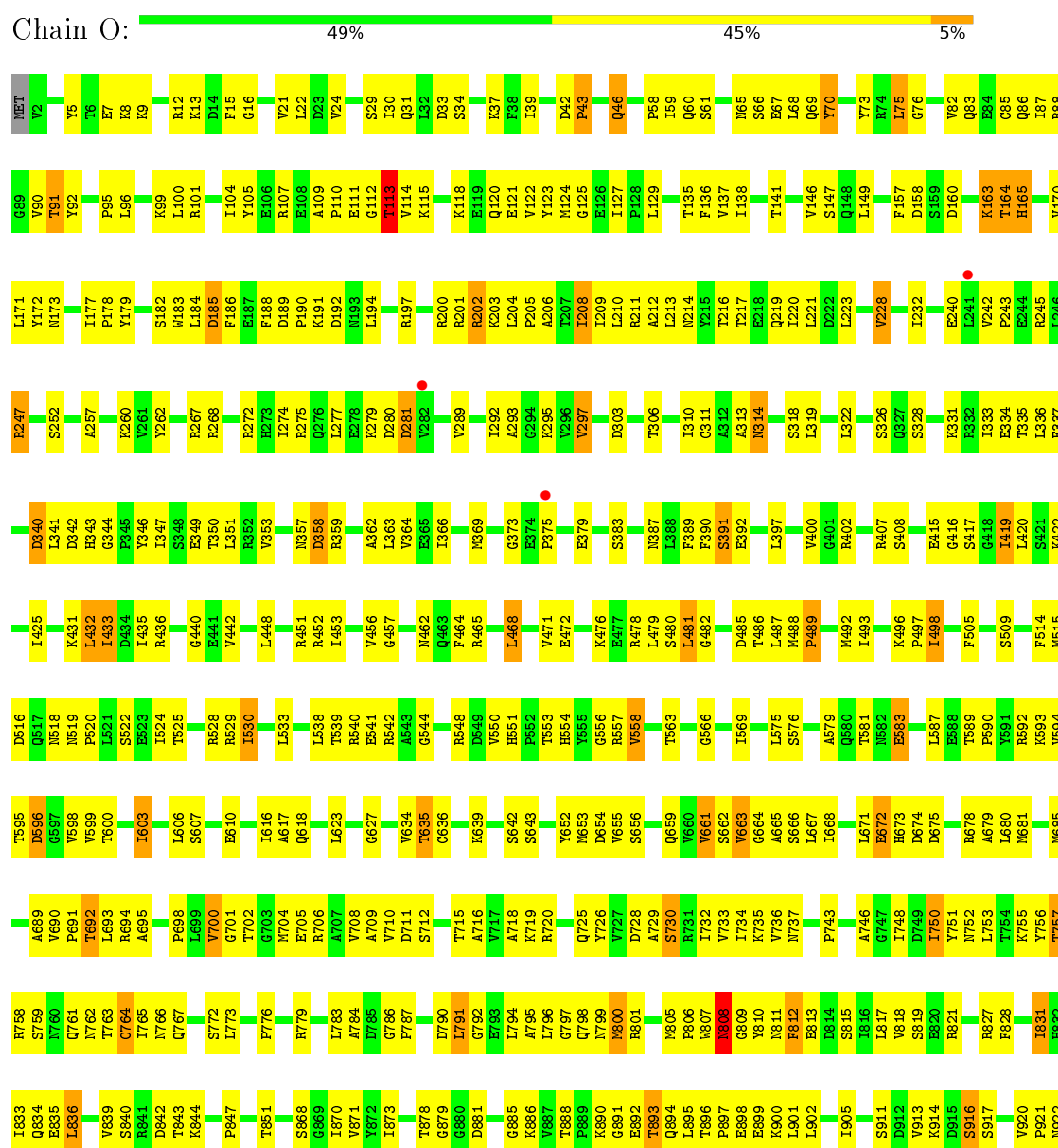
Chain I: 44% 49% 7%



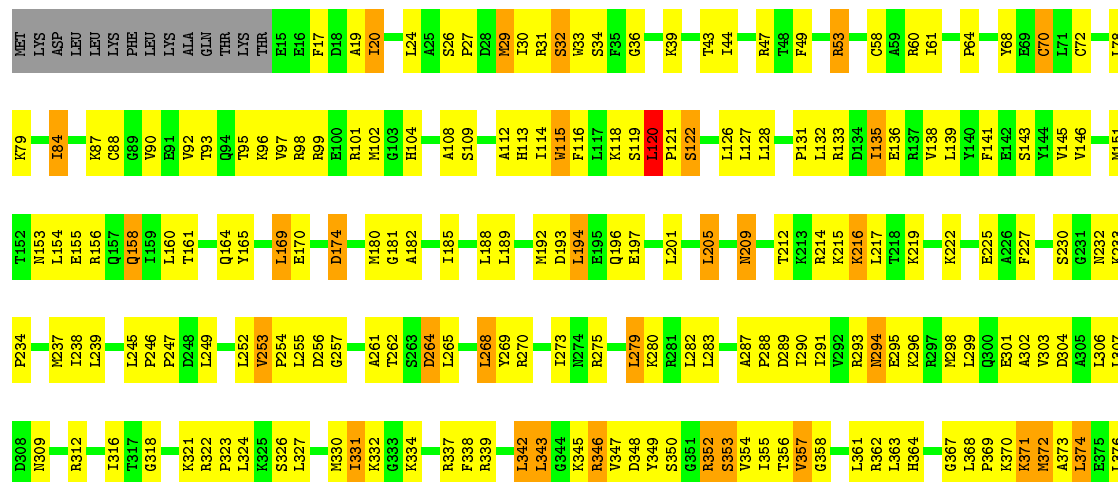


• Molecule 2: DNA-directed RNA polymerase subunit beta

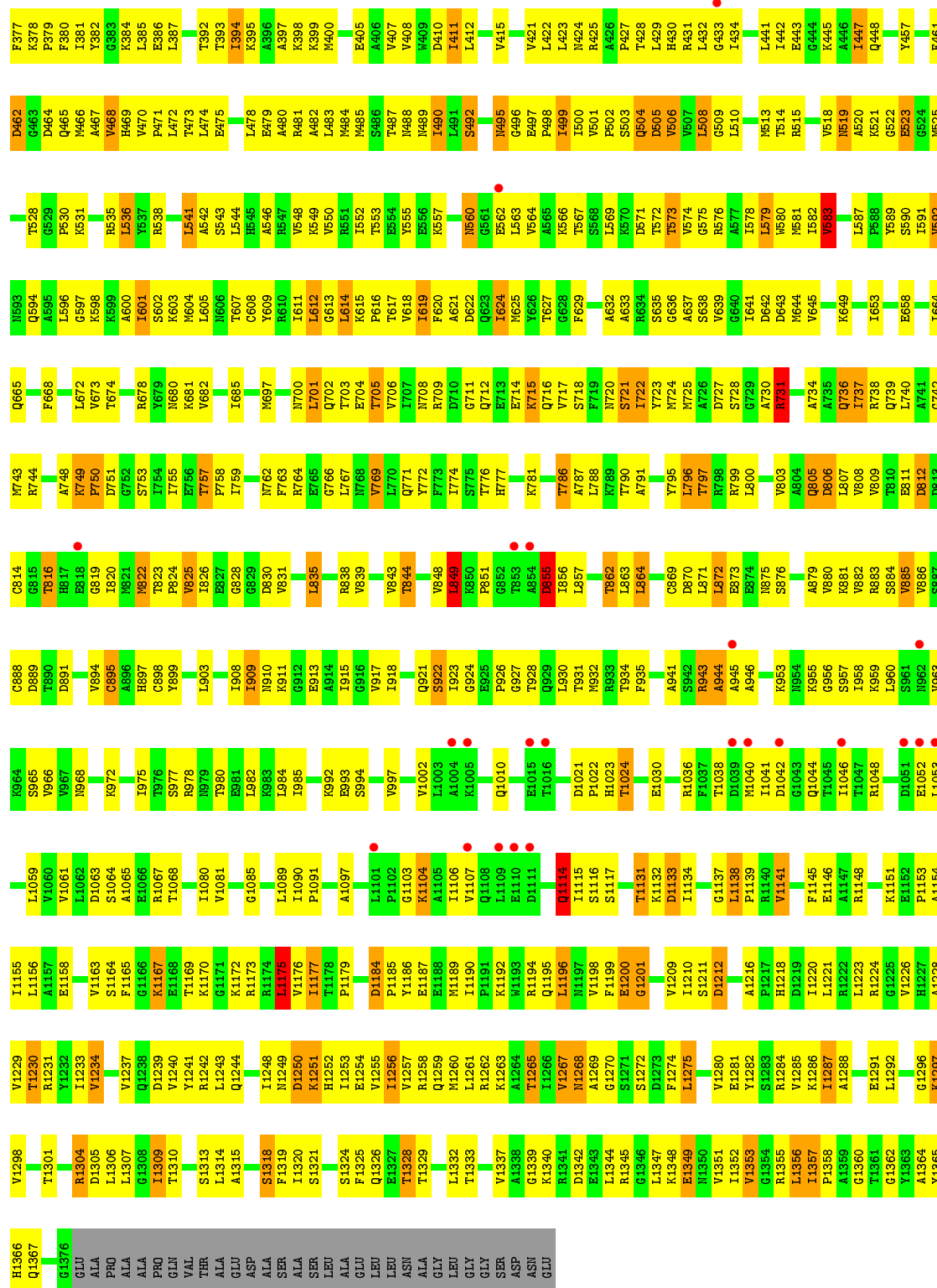
Chain O:





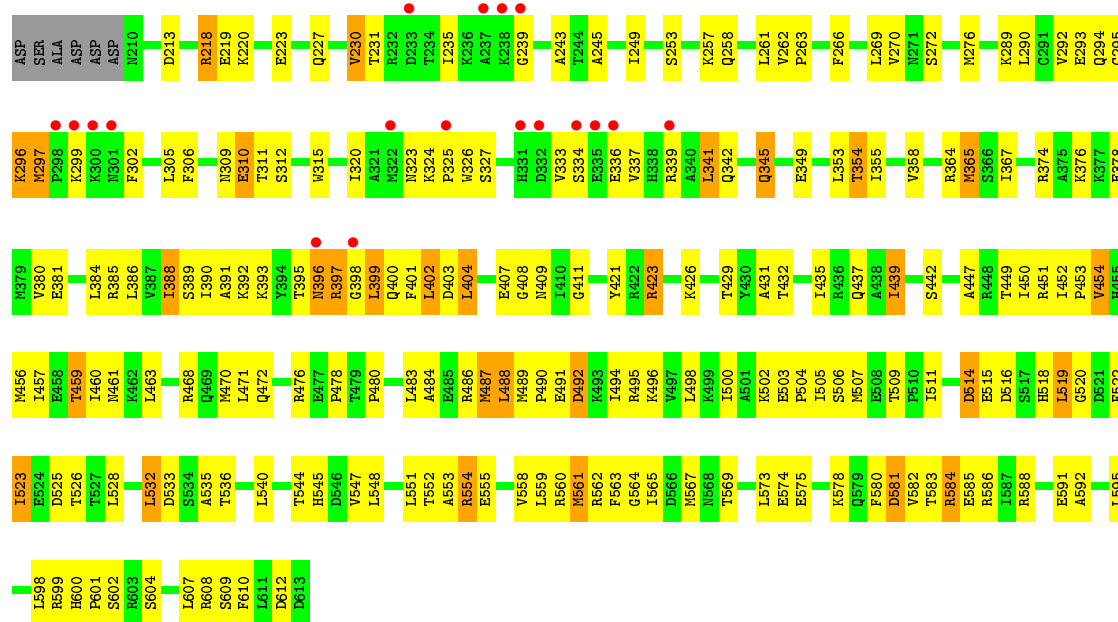




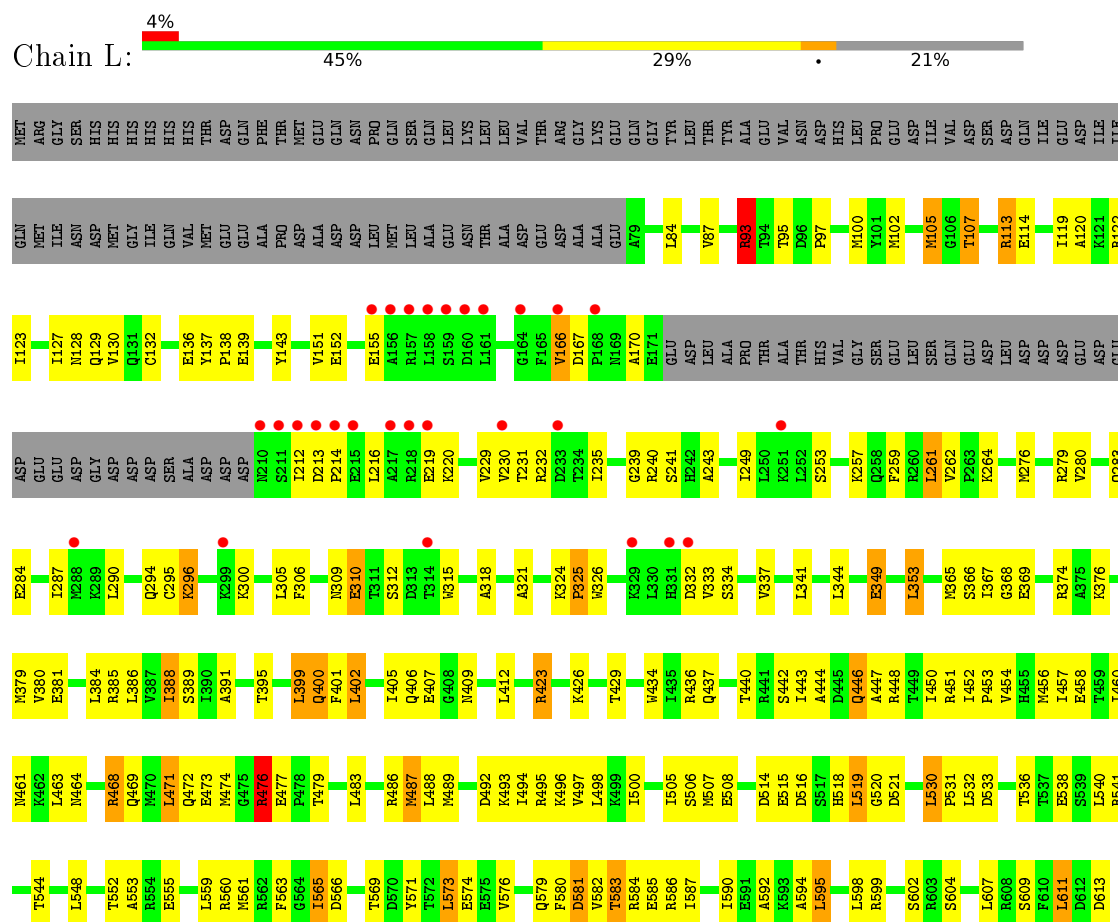




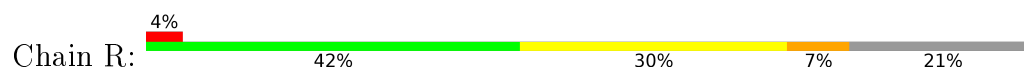


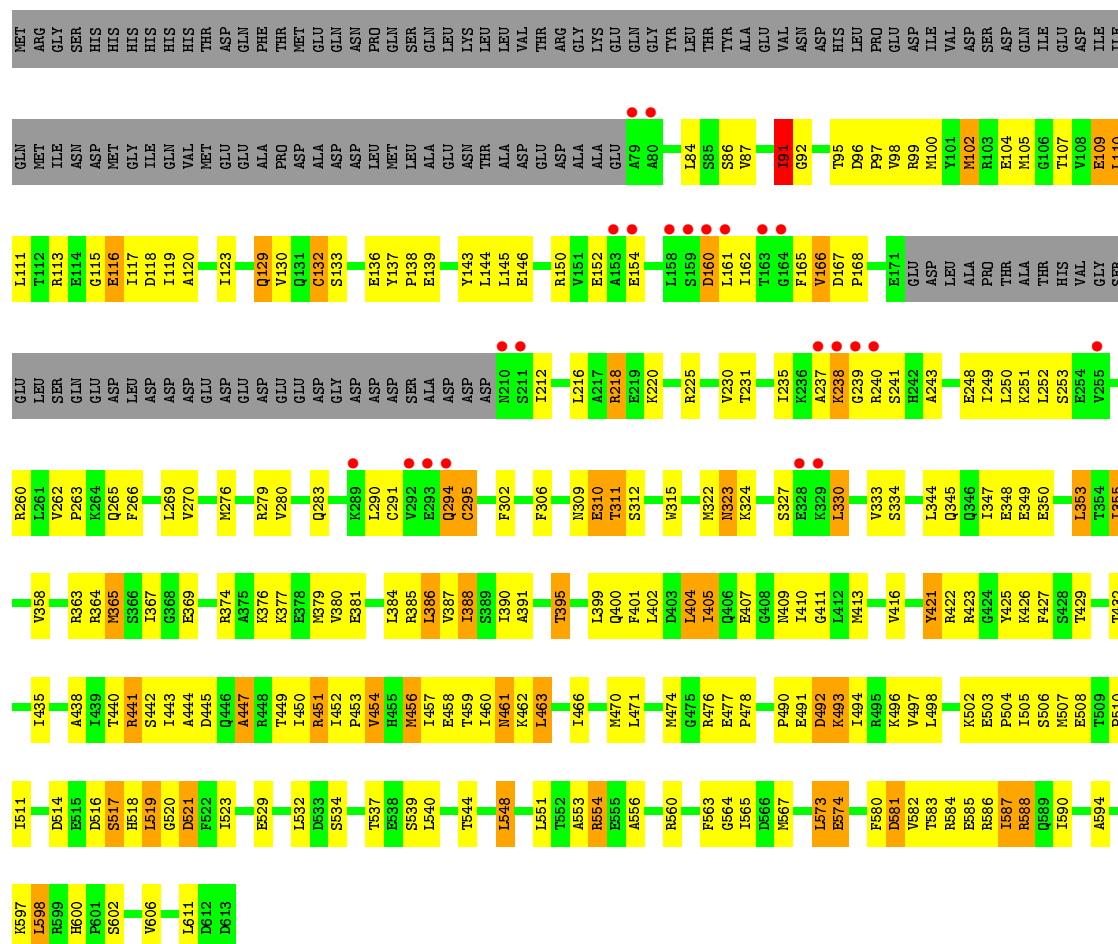


- Molecule 5: RNA polymerase sigma factor RpoD

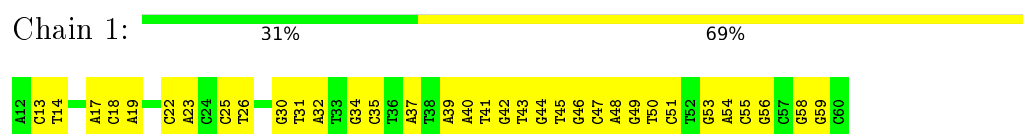


- Molecule 5: RNA polymerase sigma factor RpoD

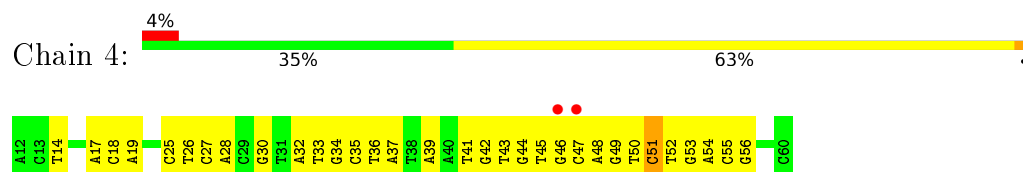




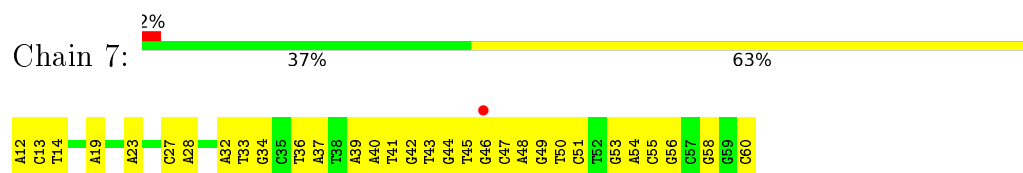
- Molecule 6: NT strand DNA (49-MER)



- Molecule 6: NT strand DNA (49-MER)

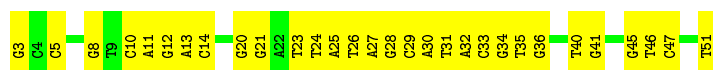


- Molecule 6: NT strand DNA (49-MER)



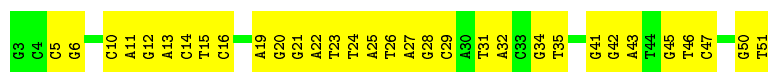
- Molecule 7: T strand DNA (49-MER)

Chain 2:  39% 61%



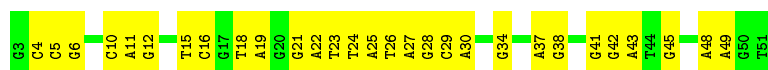
- Molecule 7: T strand DNA (49-MER)

Chain 5:  35% 65%




- Molecule 7: T strand DNA (49-MER)

Chain 8:  41% 59%



- Molecule 8: RNA (5'-R(\*(GTP))-R(P\*AP\*GP\*UP\*C)-3')

Chain 3:  80% 20%



- Molecule 8: RNA (5'-R(\*(GTP))-R(P\*AP\*GP\*UP\*C)-3')

Chain 6:  40% 40% 20%



- Molecule 8: RNA (5'-R(\*(GTP))-R(P\*AP\*GP\*UP\*C)-3')

Chain 9:  40% 60%



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	237.67Å 204.99Å 248.84Å 90.00° 116.86° 90.00°	Depositor
Resolution (Å)	39.98 – 5.50 39.98 – 5.50	Depositor EDS
% Data completeness (in resolution range)	97.9 (39.98-5.50) 98.1 (39.98-5.50)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.07 (at 5.37Å)	Xtriage
Refinement program	REFMAC 5.8.0073	Depositor
R, $R_{free}$	0.231 , 0.313 0.231 , 0.312	Depositor DCC
$R_{free}$ test set	3384 reflections (5.24%)	DCC
Wilson B-factor (Å <sup>2</sup> )	324.1	Xtriage
Anisotropy	0.251	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.24 , 168.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.39$ , $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	0.055 for h,-k,-h-l	Xtriage
$F_o, F_c$ correlation	0.94	EDS
Total number of atoms	94668	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	198.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.45% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: GTP, ZN, MG

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	0.63	0/1809	0.91	5/2450 (0.2%)
1	B	0.58	0/1789	0.87	3/2425 (0.1%)
1	G	0.60	0/1809	0.87	2/2450 (0.1%)
1	H	0.59	0/1789	0.87	2/2425 (0.1%)
1	M	0.53	0/1809	0.76	1/2450 (0.0%)
1	N	0.55	0/1789	0.81	1/2425 (0.0%)
2	C	0.56	0/10745	0.78	5/14499 (0.0%)
2	I	0.58	1/10745 (0.0%)	0.78	5/14499 (0.0%)
2	O	0.53	0/10745	0.75	4/14499 (0.0%)
3	D	0.57	1/10729 (0.0%)	0.80	9/14487 (0.1%)
3	J	0.59	1/10729 (0.0%)	0.85	16/14487 (0.1%)
3	P	0.57	1/10729 (0.0%)	0.80	5/14487 (0.0%)
4	E	0.53	0/710	0.71	0/956
4	K	0.62	1/710 (0.1%)	0.82	0/956
4	Q	0.54	0/710	0.77	0/956
5	F	0.51	0/4076	0.73	1/5482 (0.0%)
5	L	0.53	0/4076	0.75	3/5482 (0.1%)
5	R	0.54	1/4076 (0.0%)	0.75	3/5482 (0.1%)
6	1	0.34	0/1114	0.68	0/1714
6	4	1.27	1/1114 (0.1%)	0.91	4/1714 (0.2%)
6	7	0.40	0/1115	0.66	0/1718
7	2	0.35	0/1136	0.67	0/1752
7	5	0.33	0/1136	0.68	0/1752
7	8	0.41	0/1137	0.66	0/1756
8	3	0.38	0/94	0.67	0/144
8	6	0.42	0/94	0.64	0/144
8	9	0.28	0/94	0.68	0/144
All	All	0.57	7/96608 (0.0%)	0.79	69/131735 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is



detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
3	P	0	1

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	4	51	DC	O3'-P	40.58	2.09	1.61
2	I	638	SER	CB-OG	16.07	1.63	1.42
3	D	955	LYS	CE-NZ	10.97	1.76	1.49
4	K	91	ARG	C-O	7.42	1.37	1.23
3	P	681	LYS	CG-CD	5.15	1.70	1.52
5	R	109	GLU	CG-CD	5.12	1.59	1.51
3	J	70	CYS	CB-SG	5.02	1.90	1.82

All (69) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	4	51	DC	OP1-P-O3'	15.55	139.42	105.20
6	4	51	DC	P-O3'-C3'	15.39	138.17	119.70
6	4	51	DC	O3'-P-O5'	-10.32	84.38	104.00
3	J	120	LEU	C-N-CD	-9.82	99.00	120.60
1	N	29	GLU	C-N-CD	-9.03	100.74	120.60
3	D	239	LEU	CA-CB-CG	-8.39	95.99	115.30
6	4	51	DC	OP2-P-O3'	-8.19	87.17	105.20
1	B	228	LEU	CA-CB-CG	-8.08	96.72	115.30
1	A	39	LEU	CA-CB-CG	-7.62	97.78	115.30
2	C	693	LEU	CA-CB-CG	-6.80	99.67	115.30
1	H	47	LEU	CA-CB-CG	-6.76	99.75	115.30
2	O	1327	LEU	CA-CB-CG	6.75	130.82	115.30
3	J	239	LEU	CA-CB-CG	-6.72	99.84	115.30
3	D	737	ILE	CB-CA-C	-6.65	98.30	111.60
3	P	120	LEU	C-N-CD	-6.54	106.22	120.60
3	D	423	LEU	CA-CB-CG	-6.51	100.32	115.30
3	D	770	LEU	CA-CB-CG	6.46	130.15	115.30
2	C	587	LEU	CA-CB-CG	-6.37	100.65	115.30
1	H	13	LEU	CA-CB-CG	6.33	129.86	115.30
3	P	1243	LEU	CA-CB-CG	6.29	129.77	115.30
1	M	83	LEU	CA-CB-CG	6.23	129.63	115.30
3	D	120	LEU	C-N-CD	-6.14	107.08	120.60
2	O	1308	ILE	CB-CA-C	-6.14	99.33	111.60
3	J	120	LEU	CA-CB-CG	6.12	129.37	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	J	885	VAL	CB-CA-C	-6.06	99.88	111.40
3	J	268	LEU	CA-CB-CG	-6.05	101.39	115.30
3	J	579	LEU	CA-CB-CG	-6.00	101.50	115.30
2	I	883	LEU	CA-CB-CG	-5.92	101.67	115.30
5	L	611	LEU	CA-CB-CG	5.92	128.93	115.30
5	R	598	LEU	CA-CB-CG	-5.90	101.72	115.30
2	I	953	LEU	CA-CB-CG	5.90	128.87	115.30
5	R	92	GLY	N-CA-C	-5.83	98.53	113.10
2	I	309	LEU	CA-CB-CG	5.82	128.68	115.30
2	O	1253	LEU	CA-CB-CG	-5.81	101.94	115.30
1	B	217	ILE	CB-CA-C	-5.80	100.01	111.60
1	G	39	LEU	CA-CB-CG	-5.78	102.00	115.30
3	J	583	VAL	CB-CA-C	-5.78	100.41	111.40
3	J	601	ILE	CB-CA-C	-5.76	100.08	111.60
5	L	532	LEU	CA-CB-CG	5.76	128.54	115.30
3	D	774	ILE	CB-CA-C	-5.73	100.13	111.60
3	D	641	ILE	CB-CA-C	-5.72	100.15	111.60
2	I	410	LEU	CA-CB-CG	5.72	128.45	115.30
5	R	350	GLU	OE1-CD-OE2	-5.71	116.44	123.30
3	J	387	LEU	CA-CB-CG	5.66	128.31	115.30
2	C	209	ILE	CB-CA-C	-5.56	100.49	111.60
3	P	1282	TYR	CA-CB-CG	5.55	123.95	113.40
2	I	246	LEU	CA-CB-CG	-5.50	102.64	115.30
1	A	224	LEU	CA-CB-CG	-5.49	102.67	115.30
1	A	205	MET	CB-CG-SD	-5.49	95.94	112.40
3	J	1175	LEU	CA-CB-CG	-5.48	102.69	115.30
2	O	1079	ILE	CB-CA-C	-5.46	100.68	111.60
3	J	737	ILE	CB-CA-C	-5.46	100.69	111.60
3	P	139	LEU	CA-CB-CG	-5.45	102.77	115.30
1	B	82	LEU	CA-CB-CG	5.41	127.75	115.30
1	G	144	ILE	CB-CA-C	-5.37	100.85	111.60
3	J	849	LEU	CA-CB-CG	5.36	127.63	115.30
2	C	1079	ILE	CB-CA-C	-5.34	100.92	111.60
1	A	79	LEU	CA-CB-CG	-5.27	103.17	115.30
3	D	803	VAL	CB-CA-C	-5.26	101.40	111.40
2	C	862	LEU	CA-CB-CG	5.25	127.38	115.30
3	D	849	LEU	CA-CB-CG	5.24	127.36	115.30
3	J	1292	LEU	CA-CB-CG	-5.23	103.28	115.30
5	L	595	LEU	CA-CB-CG	5.21	127.27	115.30
3	J	541	LEU	CA-CB-CG	-5.18	103.38	115.30
5	F	488	LEU	CA-CB-CG	5.17	127.19	115.30
3	J	342	LEU	CA-CB-CG	-5.12	103.52	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed( $^{\circ}$ )	Ideal( $^{\circ}$ )
3	J	499	ILE	CB-CA-C	-5.12	101.36	111.60
1	A	133	LEU	CA-CB-CG	5.10	127.02	115.30
3	P	840	LEU	CA-CB-CG	5.08	126.98	115.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	P	1276	GLU	Peptide

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1787	0	1813	209	0
1	B	1767	0	1789	217	0
1	G	1787	0	1813	166	0
1	H	1767	0	1789	160	0
1	M	1787	0	1813	134	0
1	N	1767	0	1789	116	0
2	C	10576	0	10591	815	0
2	I	10576	0	10591	916	0
2	O	10576	0	10591	739	0
3	D	10568	0	10781	927	1
3	J	10568	0	10780	1017	0
3	P	10568	0	10783	901	0
4	E	708	0	719	39	0
4	K	708	0	719	38	0
4	Q	708	0	719	47	0
5	F	4022	0	4083	280	0
5	L	4022	0	4083	220	0
5	R	4022	0	4083	298	0
6	1	996	0	555	65	1
6	4	996	0	556	71	0
6	7	996	0	554	60	1
7	2	1012	0	554	55	1
7	5	1012	0	554	53	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	8	1012	0	553	48	0
8	3	117	0	55	10	0
8	6	117	0	55	6	0
8	9	117	0	55	6	0
9	D	2	0	0	2	0
9	J	2	0	0	1	0
9	P	2	0	0	5	0
10	D	1	0	0	0	0
10	J	1	0	0	0	0
10	P	1	0	0	0	0
All	All	94668	0	92820	6810	3

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 36.

All (6810) 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)
2:I:255:ILE:CG1	2:I:255:ILE:CD1	1.74	1.59
3:D:955:LYS:NZ	3:D:955:LYS:CE	1.76	1.48
3:P:514:THR:HG21	3:P:596:LEU:CD1	1.48	1.42
3:J:421:VAL:CG1	3:J:469:HIS:O	1.70	1.40
3:P:1095:MET:SD	3:P:1173:ARG:NH2	1.97	1.38
3:D:130:MET:SD	3:D:135:ILE:HG12	1.62	1.37
3:P:514:THR:CG2	3:P:596:LEU:HD12	1.54	1.36
2:I:184:LEU:HD21	2:I:389:PHE:CZ	1.62	1.33
1:B:35:PHE:O	1:B:39:LEU:HG	1.27	1.32
2:I:206:ALA:O	2:I:209:ILE:HG22	1.23	1.30
3:D:703:THR:O	3:D:718:SER:CB	1.77	1.29
2:C:342:ASP:O	2:C:437:ASN:ND2	1.62	1.29
1:A:69:SER:O	1:A:78:ILE:HD11	1.24	1.29
2:O:1275:VAL:HG12	2:O:1279:GLU:OE2	1.29	1.29
1:A:224:LEU:CD1	1:A:228:LEU:HD11	1.62	1.28
3:J:1233:ILE:O	3:J:1237:VAL:HG23	1.27	1.28
1:H:39:LEU:O	1:H:43:LEU:HG	1.27	1.28
1:H:43:LEU:O	1:H:47:LEU:HD12	1.32	1.27
3:D:139:LEU:HD21	3:D:185:ILE:CD1	1.63	1.27
1:M:112:ALA:O	1:M:115:ILE:HD12	1.28	1.27
1:A:35:PHE:O	1:A:39:LEU:HG	1.29	1.26
2:O:206:ALA:O	2:O:209:ILE:HG22	1.30	1.26
1:A:45:ARG:HD3	1:B:38:THR:OG1	1.32	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:868:TRP:O	3:D:872:LEU:HG	1.33	1.26
3:J:1257:VAL:HA	3:J:1260:MET:CE	1.64	1.26
2:O:1073:LYS:NZ	8:9:16:U:OP1	1.65	1.26
3:D:805:GLN:HB2	3:D:1347:LEU:CD1	1.66	1.24
3:J:1348:LYS:O	3:J:1352:ILE:HD12	1.11	1.24
1:A:180:VAL:HA	1:A:207:THR:CG2	1.69	1.23
3:J:372:MET:O	3:J:376:LEU:HG	1.38	1.23
5:L:573:LEU:HB3	7:5:45:DG:OP2	1.39	1.23
1:G:35:PHE:O	1:G:39:LEU:HD12	1.35	1.22
3:D:425:ARG:NH2	8:3:16:U:O2'	1.72	1.22
1:H:35:PHE:O	1:H:39:LEU:HG	1.37	1.21
2:I:1326:LEU:HA	2:I:1329:GLU:OE1	1.38	1.21
3:D:139:LEU:CD2	3:D:185:ILE:HD12	1.70	1.21
1:B:47:LEU:HD13	1:B:183:ILE:CD1	1.68	1.21
1:G:47:LEU:HD13	1:G:183:ILE:CD1	1.69	1.21
2:C:542:ARG:NH1	6:1:50:DT:C7	2.03	1.20
2:I:448:LEU:HD11	2:I:553:THR:O	1.37	1.20
2:C:521:LEU:HD21	2:C:686:GLN:HB3	1.21	1.20
3:J:843:VAL:HG21	3:J:897:HIS:O	1.43	1.17
3:P:398:LYS:CE	5:R:532:LEU:HD21	1.73	1.17
2:I:661:VAL:HG13	2:I:665:ALA:HB3	1.24	1.17
1:A:224:LEU:HD11	1:A:228:LEU:CD1	1.72	1.17
2:C:542:ARG:NH1	6:1:50:DT:H71	1.59	1.17
2:C:452:ARG:NH2	2:C:458:GLU:OE1	1.78	1.17
2:C:211:ARG:HD3	2:C:357:ASN:O	1.45	1.17
3:J:282:LEU:HD22	3:J:287:ALA:HB2	1.21	1.17
2:O:1326:LEU:O	2:O:1330:ILE:HD12	1.45	1.17
7:8:25:DA:H1'	7:8:26:DT:H5''	1.24	1.17
2:C:521:LEU:CD2	2:C:686:GLN:HB3	1.74	1.17
3:D:749:LYS:HB3	3:D:750:PRO:CD	1.70	1.17
1:M:112:ALA:O	1:M:115:ILE:CD1	1.93	1.16
3:P:398:LYS:HE2	5:R:532:LEU:HD21	1.21	1.16
3:P:608:CYS:SG	3:P:617:THR:HG22	1.85	1.15
1:M:47:LEU:CD1	1:M:183:ILE:HD12	1.75	1.15
3:P:502:PRO:HB3	3:P:506:VAL:HG11	1.29	1.15
2:O:136:PHE:HB3	2:O:138:ILE:HD11	1.26	1.15
1:N:101:THR:HG22	1:N:143:ARG:HG2	1.22	1.15
3:J:673:VAL:CG1	3:J:678:ARG:HB2	1.76	1.15
3:J:749:LYS:HB3	3:J:750:PRO:CD	1.77	1.15
2:O:402:ARG:NH2	2:O:417:SER:O	1.77	1.14
2:C:206:ALA:O	2:C:209:ILE:HG22	1.43	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:146:VAL:CG2	3:D:158:GLN:HB3	1.78	1.14
1:G:44:ARG:HA	1:G:47:LEU:HD12	1.29	1.13
1:N:31:LEU:HD11	1:N:39:LEU:HD12	1.23	1.13
1:H:85:LEU:HD21	1:H:130:ILE:CG2	1.77	1.13
2:O:29:SER:OG	2:O:30:ILE:HD12	1.46	1.13
3:D:759:ILE:O	3:D:759:ILE:HG22	1.49	1.13
3:D:943:ARG:HG2	3:D:944:ALA:H	1.10	1.13
2:C:96:LEU:CB	2:C:127:ILE:HD11	1.77	1.13
5:R:507:MET:O	5:R:519:LEU:HB3	1.46	1.12
3:D:515:ARG:NH2	3:D:717:VAL:HB	1.61	1.12
3:P:749:LYS:HB3	3:P:750:PRO:CD	1.79	1.12
3:J:421:VAL:HG12	3:J:469:HIS:O	1.30	1.12
3:P:849:LEU:HD21	3:P:857:LEU:HD23	1.31	1.12
1:A:192:VAL:HG21	1:A:198:LEU:HD12	1.22	1.12
3:D:869:CYS:HA	3:D:872:LEU:HD12	1.22	1.12
5:F:511:ILE:HD13	5:F:519:LEU:HD13	1.22	1.12
3:P:262:THR:HA	5:R:507:MET:HE3	1.17	1.11
3:J:112:ALA:HA	3:J:238:ILE:HD12	1.19	1.11
2:I:228:VAL:HG11	2:I:239:MET:HE3	1.28	1.11
3:J:496:GLY:HA2	3:J:903:LEU:HD22	1.28	1.11
2:C:575:LEU:HD11	2:C:579:ALA:HB3	1.33	1.11
5:L:507:MET:HA	5:L:519:LEU:HD23	1.24	1.11
2:C:149:LEU:HD11	2:C:451:ARG:HB3	1.33	1.11
3:J:1348:LYS:O	3:J:1352:ILE:CD1	1.98	1.11
5:L:533:ASP:O	5:L:536:THR:HB	1.50	1.11
1:H:39:LEU:O	1:H:43:LEU:CG	2.00	1.10
2:C:1077:SER:HA	3:D:356:THR:HG21	1.27	1.10
5:R:506:SER:O	5:R:519:LEU:HD23	1.52	1.10
1:B:61:ILE:HD12	1:B:61:ILE:N	1.61	1.10
1:B:84:ASN:OD1	3:D:551:ARG:NH1	1.84	1.10
6:4:51:DC:O3'	6:4:52:DT:P	2.09	1.10
1:A:13:LEU:HA	1:A:28:LEU:CD2	1.81	1.10
2:C:463:GLN:HG3	2:C:505:PHE:HD1	1.11	1.10
2:I:661:VAL:CG1	2:I:665:ALA:HB3	1.81	1.10
3:P:22:ILE:HD11	3:P:1319:PHE:CE1	1.87	1.10
5:R:584:ARG:O	5:R:587:ILE:HG12	1.49	1.10
2:C:988:LYS:HB2	2:C:988:LYS:NZ	1.67	1.09
1:G:180:VAL:HA	1:G:207:THR:HG22	1.34	1.09
1:M:9:LEU:HD21	1:M:198:LEU:HD21	1.25	1.09
3:P:88:CYS:SG	9:P:1501:ZN:ZN	1.39	1.09
3:J:363:LEU:HG	3:J:487:THR:HG22	1.26	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:734:ALA:HA	3:D:737:ILE:HD12	1.09	1.09
3:J:1138:LEU:HB3	3:J:1139:PRO:HD3	1.27	1.09
3:J:282:LEU:HD22	3:J:287:ALA:CB	1.81	1.09
1:H:68:TYR:HB2	3:P:857:LEU:HD13	1.23	1.09
1:A:39:LEU:HD23	1:A:39:LEU:N	1.48	1.09
5:F:132:CYS:SG	5:F:257:LYS:HE2	1.93	1.09
2:I:689:ALA:CB	2:I:1233:LEU:HD13	1.83	1.09
2:C:217:THR:CA	2:C:220:ILE:HD12	1.82	1.09
3:D:749:LYS:HG3	3:D:755:ILE:HG12	1.16	1.09
3:J:1156:LEU:HD22	3:J:1209:VAL:HA	1.34	1.09
2:I:870:ILE:HG13	2:I:944:ARG:HG2	1.29	1.09
2:C:524:ILE:HD11	2:C:712:SER:HB3	1.15	1.08
2:C:1077:SER:HA	3:D:356:THR:CG2	1.83	1.08
2:I:1324:ASN:HA	2:I:1327:LEU:HD12	1.15	1.08
2:I:402:ARG:HG2	2:I:416:GLY:HA3	1.34	1.08
3:J:749:LYS:HB3	3:J:750:PRO:HD2	1.14	1.08
3:D:139:LEU:CD2	3:D:185:ILE:CD1	2.26	1.08
2:C:96:LEU:HB2	2:C:127:ILE:CD1	1.83	1.08
1:G:228:LEU:HD13	1:H:224:LEU:HD11	1.08	1.08
1:M:47:LEU:HD12	1:M:183:ILE:CD1	1.83	1.08
2:O:496:LYS:HB2	2:O:497:PRO:HD3	1.26	1.08
2:C:560:PRO:O	3:D:780:ARG:NH2	1.87	1.08
2:C:903:ARG:HH21	2:C:909:LYS:HG2	1.19	1.08
3:J:1164:SER:O	3:J:1175:LEU:CD1	2.02	1.08
3:J:373:ALA:HA	3:J:376:LEU:HD12	1.10	1.08
1:A:47:LEU:HD13	1:A:183:ILE:HD11	1.33	1.07
2:I:1276:TRP:HD1	2:I:1279:GLU:OE1	1.37	1.07
3:J:373:ALA:HA	3:J:376:LEU:CD1	1.82	1.07
3:J:502:PRO:HG2	3:J:601:ILE:HG21	1.33	1.07
1:A:13:LEU:HA	1:A:28:LEU:HD21	1.24	1.07
1:A:180:VAL:CA	1:A:207:THR:HG22	1.83	1.07
1:G:43:LEU:O	1:G:47:LEU:HG	1.51	1.07
3:P:74:LYS:HD3	3:P:85:CYS:SG	1.95	1.07
2:C:616:ILE:HG12	2:C:652:TYR:HB2	1.34	1.07
3:D:1155:ILE:O	3:D:1210:ILE:HD12	1.52	1.07
3:P:262:THR:O	5:R:507:MET:HB2	1.55	1.07
3:P:322:ARG:HB2	3:P:323:PRO:HD2	1.35	1.07
3:D:425:ARG:NH1	3:D:426:ALA:O	1.88	1.07
3:J:115:TRP:CH2	3:J:1329:THR:HA	1.90	1.07
5:F:91:ILE:HD11	5:F:103:ARG:NH1	1.70	1.06
3:D:1328:THR:O	3:D:1332:LEU:HG	1.53	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:86:LYS:HE2	1:N:174:ASP:HB2	1.34	1.06
3:P:245:LEU:HD12	3:P:246:PRO:HD2	1.35	1.06
5:F:396:ASN:O	5:F:398:GLY:N	1.88	1.06
1:A:227:GLN:O	1:A:231:PHE:CZ	2.09	1.06
1:H:85:LEU:HD21	1:H:130:ILE:HG23	1.07	1.06
3:P:805:GLN:OE1	3:P:1348:LYS:HG3	1.55	1.06
2:C:14:ASP:OD2	2:C:1156:ARG:NH2	1.86	1.06
5:F:511:ILE:CD1	5:F:519:LEU:HD13	1.85	1.06
2:O:59:ILE:HG23	2:O:476:LYS:HE3	1.35	1.06
1:A:182:ARG:CD	2:C:1092:THR:HG23	1.86	1.06
2:I:883:LEU:HD21	2:I:920:VAL:CG2	1.84	1.06
3:P:262:THR:HA	5:R:507:MET:CE	1.85	1.05
2:O:896:THR:HG22	2:O:899:GLU:OE1	1.56	1.05
2:I:689:ALA:HB2	2:I:1233:LEU:HD13	1.13	1.05
2:C:217:THR:HA	2:C:220:ILE:CD1	1.85	1.05
3:J:1138:LEU:CB	3:J:1139:PRO:HD3	1.86	1.05
3:P:1163:VAL:HG11	3:P:1175:LEU:HD21	1.38	1.05
3:P:109:SER:HB2	3:P:296:LYS:CE	1.87	1.05
1:G:47:LEU:HD13	1:G:183:ILE:HD11	1.39	1.04
2:I:363:LEU:HA	2:I:366:ILE:HD12	1.06	1.04
2:I:764:CYS:HA	2:I:833:ILE:HD11	1.39	1.04
3:P:253:VAL:HB	3:P:254:PRO:CD	1.85	1.04
2:O:1243:MET:HG2	3:P:372:MET:HE2	1.34	1.04
2:O:247:ARG:HG3	2:O:274:ILE:HD13	1.36	1.04
1:A:224:LEU:HG	1:A:225:ALA:N	1.36	1.04
2:C:10:ARG:NH2	2:C:697:LYS:HD3	1.71	1.04
1:G:102:LEU:HD13	1:G:114:ASP:O	1.57	1.04
2:I:38:PHE:HE1	2:I:461:GLU:HA	1.17	1.04
2:O:1275:VAL:O	2:O:1279:GLU:HG3	1.57	1.04
3:P:601:ILE:HA	3:P:604:MET:SD	1.97	1.04
1:M:43:LEU:O	1:M:47:LEU:HG	1.58	1.03
3:P:739:GLN:HE22	3:P:940:ALA:HB3	1.20	1.03
3:P:139:LEU:HD11	3:P:185:ILE:HD12	1.37	1.03
1:A:168:ILE:H	1:A:168:ILE:HD12	1.21	1.03
1:A:39:LEU:N	1:A:39:LEU:CD2	2.16	1.03
5:L:507:MET:O	5:L:519:LEU:HB3	1.58	1.03
1:B:44:ARG:HH12	3:D:538:ARG:HB3	1.22	1.03
3:J:368:LEU:O	3:J:441:LEU:HD23	1.58	1.03
3:J:673:VAL:HG13	3:J:678:ARG:HB2	1.39	1.03
3:P:620:PHE:O	3:P:624:ILE:HG13	1.56	1.03
3:D:251:PRO:O	5:F:507:MET:HE3	1.59	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:17:PHE:O	3:J:1355:ARG:NH1	1.90	1.03
1:B:39:LEU:N	1:B:39:LEU:HD23	1.74	1.03
2:C:819:SER:O	2:C:822:VAL:HG23	1.59	1.02
1:G:106:GLY:HA2	1:G:136:GLU:HA	1.40	1.02
1:B:47:LEU:HD13	1:B:183:ILE:HD12	1.03	1.02
3:J:109:SER:HB2	3:J:296:LYS:HE2	1.37	1.02
5:L:592:ALA:HA	5:L:595:LEU:HD12	1.36	1.02
2:I:1286:THR:OG1	3:J:479:GLU:OE2	1.77	1.02
1:N:31:LEU:CD1	1:N:39:LEU:HD12	1.89	1.02
2:O:550:VAL:HG23	3:P:780:ARG:HD2	1.37	1.02
3:P:514:THR:HG21	3:P:596:LEU:CG	1.89	1.02
3:J:839:VAL:HG12	3:J:864:LEU:HD12	1.02	1.02
2:O:878:THR:HG22	2:O:879:GLY:N	1.72	1.02
1:B:83:LEU:HD13	1:B:86:LYS:HD2	1.40	1.02
3:D:805:GLN:HB2	3:D:1347:LEU:HD12	1.33	1.02
2:I:241:LEU:HD11	2:I:246:LEU:HD11	1.38	1.02
1:B:85:LEU:HD21	1:B:130:ILE:HG23	1.42	1.02
2:I:524:ILE:HD11	2:I:712:SER:HB3	1.39	1.02
3:J:1257:VAL:HA	3:J:1260:MET:HE2	1.06	1.02
1:M:232:VAL:HG13	1:N:218:ARG:HG2	1.39	1.02
3:J:185:ILE:HG22	3:J:189:LEU:HD11	1.40	1.01
3:J:839:VAL:CG1	3:J:864:LEU:HD12	1.89	1.01
1:G:47:LEU:CD1	1:G:183:ILE:CD1	2.39	1.01
3:P:1310:THR:O	3:P:1314:LEU:HG	1.60	1.01
1:G:232:VAL:HG22	1:H:221:ALA:CB	1.90	1.01
3:J:598:LYS:HA	3:J:601:ILE:HD12	1.41	1.01
3:J:363:LEU:HD23	3:J:618:VAL:HG13	1.02	1.01
3:P:840:LEU:HD13	3:P:869:CYS:SG	2.00	1.01
3:D:749:LYS:CG	3:D:755:ILE:HG12	1.89	1.01
2:I:1276:TRP:HE1	3:J:1348:LYS:NZ	1.59	1.01
3:J:503:SER:O	3:J:506:VAL:HG23	1.58	1.01
3:P:115:TRP:CH2	3:P:1329:THR:HA	1.96	1.01
3:P:1344:LEU:HA	3:P:1349:GLU:OE1	1.60	1.01
3:P:427:PRO:HB3	7:8:12:DG:N2	1.75	1.01
2:C:264:GLU:HB2	2:C:267:ARG:HB3	1.42	1.01
3:P:749:LYS:HB3	3:P:750:PRO:HD2	1.03	1.01
1:A:224:LEU:CG	1:A:225:ALA:N	2.24	1.00
3:D:930:LEU:HB2	3:D:1134:ILE:HD11	1.43	1.00
1:B:61:ILE:HD12	1:B:61:ILE:H	1.20	1.00
3:D:749:LYS:CB	3:D:750:PRO:HD2	1.91	1.00
5:L:123:ILE:HD13	5:L:376:LYS:HE3	1.39	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:797:THR:O	3:P:801:VAL:HG23	1.61	1.00
3:D:543:SER:O	3:D:574:VAL:HG21	1.60	1.00
3:P:1328:THR:O	3:P:1332:LEU:HG	1.62	1.00
2:I:206:ALA:O	2:I:209:ILE:CG2	2.09	1.00
2:I:953:LEU:HD22	2:I:957:LYS:HZ2	1.26	1.00
3:P:1145:PHE:HB3	3:P:1309:ILE:HD11	1.39	1.00
3:D:342:LEU:HD22	3:D:1352:ILE:HG23	1.43	1.00
2:I:871:VAL:HG23	2:I:883:LEU:O	1.62	1.00
3:J:1282:TYR:OH	3:J:1304:ARG:NH2	1.95	1.00
3:D:736:GLN:O	3:D:740:LEU:HG	1.60	1.00
5:F:449:THR:OG1	5:F:504:PRO:HG3	1.60	1.00
1:H:78:ILE:O	1:H:82:LEU:HG	1.61	1.00
3:P:515:ARG:NH2	3:P:718:SER:O	1.93	1.00
5:R:457:ILE:HA	5:R:460:ILE:HD12	1.44	1.00
3:J:275:ARG:NH1	3:J:298:MET:O	1.93	0.99
5:L:306:PHE:O	5:L:310:GLU:HG3	1.61	0.99
1:A:38:THR:HG23	1:B:42:ALA:HA	1.42	0.99
3:J:797:THR:HA	3:J:800:LEU:HD12	1.44	0.99
2:C:542:ARG:NH1	6:1:50:DT:H73	1.75	0.99
2:I:912:ASP:O	2:I:913:VAL:HG23	1.62	0.99
2:I:953:LEU:HD22	2:I:957:LYS:NZ	1.77	0.99
3:P:425:ARG:NH1	3:P:426:ALA:O	1.95	0.99
5:R:120:ALA:HA	5:R:123:ILE:HD12	1.43	0.99
1:B:81:ILE:O	1:B:85:LEU:HG	1.61	0.99
5:F:460:ILE:HA	5:F:463:LEU:HD12	1.45	0.99
7:2:23:DT:H3'	7:2:24:DT:H5''	1.45	0.99
1:A:182:ARG:HD2	2:C:1092:THR:HG23	1.43	0.99
1:H:192:VAL:HG11	1:H:198:LEU:HD22	1.42	0.99
1:G:228:LEU:CD1	1:H:224:LEU:HD11	1.91	0.99
3:J:814:CYS:SG	9:J:1502:ZN:ZN	1.51	0.99
2:I:184:LEU:HD21	2:I:389:PHE:CE2	1.97	0.99
5:L:429:THR:HG1	6:4:39:DA:H8	1.10	0.99
3:P:22:ILE:HD11	3:P:1319:PHE:CD1	1.96	0.99
1:B:61:ILE:HB	1:B:64:VAL:HB	1.42	0.99
2:C:656:SER:O	2:C:659:GLN:HG2	1.60	0.98
3:D:139:LEU:HD21	3:D:185:ILE:HD12	1.23	0.98
3:J:421:VAL:HG12	3:J:422:LEU:H	1.26	0.98
1:N:158:ARG:HD3	1:N:172:LEU:HD11	1.41	0.98
3:P:368:LEU:HD21	3:P:373:ALA:HB2	1.43	0.98
1:A:192:VAL:HG21	1:A:198:LEU:CD1	1.93	0.98
3:D:318:GLY:HA3	3:D:322:ARG:HH12	1.24	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1257:VAL:CA	3:J:1260:MET:HE2	1.92	0.98
3:J:1357:ILE:N	3:J:1357:ILE:HD12	1.75	0.98
3:P:139:LEU:HD11	3:P:185:ILE:CD1	1.92	0.98
2:I:755:LYS:NZ	2:I:767:GLN:O	1.94	0.98
2:I:1280:ALA:CB	3:J:431:ARG:HB3	1.93	0.98
3:J:1163:VAL:HG13	3:J:1176:VAL:O	1.63	0.98
3:J:519:ASN:HB2	3:J:523:GLU:HB2	1.45	0.98
3:J:613:GLY:O	3:J:617:THR:HG23	1.62	0.98
2:O:878:THR:HG22	2:O:879:GLY:H	1.27	0.98
2:C:670:PHE:CD2	2:C:1113:LEU:HB2	1.99	0.98
2:O:1275:VAL:CG1	2:O:1279:GLU:OE2	2.11	0.98
2:O:732:ILE:HD11	2:O:753:LEU:HD11	1.41	0.98
2:I:217:THR:HA	2:I:220:ILE:HD12	1.44	0.98
1:H:168:ILE:HD11	3:P:867:GLN:HB2	1.46	0.98
1:B:35:PHE:O	1:B:39:LEU:CG	2.12	0.97
1:A:225:ALA:HA	1:A:228:LEU:HD12	1.44	0.97
3:D:703:THR:O	3:D:718:SER:HB3	0.81	0.97
1:H:190:ALA:H	1:H:199:ASP:HA	1.25	0.97
2:I:228:VAL:HG11	2:I:239:MET:CE	1.93	0.97
2:I:1086:PRO:O	2:I:1094:VAL:CG2	2.13	0.97
5:F:339:ARG:O	5:F:342:GLN:HB2	1.65	0.97
1:G:232:VAL:CG2	1:H:221:ALA:CB	2.43	0.97
3:P:337:ARG:CD	3:P:341:ASN:HD21	1.78	0.97
2:C:706:ARG:O	2:C:710:VAL:HG23	1.63	0.97
3:J:839:VAL:HG12	3:J:864:LEU:CD1	1.94	0.97
1:M:45:ARG:HH12	2:O:1216:ARG:HA	1.30	0.97
2:O:1261:GLY:CA	7:8:16:DC:OP1	2.13	0.97
3:D:44:ILE:HD12	3:D:44:ILE:O	1.64	0.97
2:O:435:ILE:HG12	2:O:440:GLY:HA3	1.42	0.97
3:D:514:THR:HG21	3:D:596:LEU:HG	1.44	0.97
2:I:1288:GLN:O	2:I:1292:THR:HG22	1.63	0.97
3:J:620:PHE:O	3:J:624:ILE:HG13	1.65	0.97
2:C:157:PHE:O	2:C:442:VAL:HG12	1.65	0.96
3:P:1134:ILE:HG23	3:P:1138:LEU:HG	1.41	0.96
3:J:711:GLY:N	3:P:1302:TYR:OH	1.96	0.96
3:P:113:HIS:HB2	3:P:239:LEU:HD21	1.47	0.96
2:I:819:SER:O	2:I:822:VAL:HG23	1.62	0.96
1:A:16:ILE:HA	1:A:26:VAL:HG22	1.47	0.96
3:D:1274:PHE:O	3:D:1275:LEU:HB2	1.64	0.96
3:J:185:ILE:O	3:J:189:LEU:HG	1.64	0.96
3:J:1357:ILE:CD1	3:J:1357:ILE:N	2.25	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:620:PHE:O	3:J:624:ILE:CG1	2.13	0.96
3:P:109:SER:HB2	3:P:296:LYS:NZ	1.79	0.96
3:D:620:PHE:O	3:D:624:ILE:HG13	1.64	0.96
3:D:946:ALA:O	3:D:948:SER:N	1.97	0.96
5:L:93:ARG:HD2	5:L:93:ARG:O	1.64	0.96
3:D:1282:TYR:O	3:D:1285:VAL:HG12	1.65	0.96
5:F:583:THR:OG1	6:1:14:DT:OP2	1.81	0.96
2:I:237:LEU:CD1	2:I:289:VAL:HG13	1.94	0.96
1:M:9:LEU:HD21	1:M:198:LEU:CD2	1.96	0.96
2:C:897:PRO:HA	2:C:900:LYS:HD3	1.43	0.96
3:D:318:GLY:HA3	3:D:322:ARG:NH1	1.79	0.96
1:G:47:LEU:CD1	1:G:183:ILE:HD11	1.94	0.96
3:J:482:ALA:O	3:J:488:ASN:ND2	1.99	0.96
3:P:70:CYS:SG	9:P:1501:ZN:ZN	1.52	0.96
3:D:251:PRO:O	5:F:507:MET:CE	2.13	0.95
2:O:890:LYS:NZ	2:O:893:THR:HG23	1.81	0.95
5:R:587:ILE:N	5:R:587:ILE:HD13	1.80	0.95
2:C:260:LYS:HD3	2:C:260:LYS:H	1.30	0.95
2:C:463:GLN:HG3	2:C:505:PHE:CD1	2.00	0.95
2:I:1113:LEU:CD2	3:J:641:ILE:HD13	1.95	0.95
3:P:70:CYS:HG	9:P:1501:ZN:ZN	0.68	0.95
2:C:542:ARG:HH12	6:1:50:DT:H71	1.28	0.95
1:H:35:PHE:O	1:H:39:LEU:CG	2.14	0.95
6:7:44:DG:H2'	6:7:45:DT:O4'	1.66	0.95
2:I:1113:LEU:HD23	3:J:641:ILE:CD1	1.95	0.95
2:I:1271:GLY:O	2:I:1275:VAL:HG23	1.66	0.95
1:H:43:LEU:C	1:H:47:LEU:HD12	1.85	0.95
3:J:1233:ILE:O	3:J:1237:VAL:CG2	2.14	0.95
2:I:1289:GLU:OE2	3:J:473:THR:HG23	1.65	0.95
3:P:322:ARG:HE	5:R:510:PRO:HD3	1.31	0.95
5:R:511:ILE:O	7:8:19:DA:N6	1.99	0.95
1:B:85:LEU:CD2	1:B:130:ILE:HG23	1.96	0.95
2:C:96:LEU:HB2	2:C:127:ILE:HD11	0.96	0.95
3:D:531:LYS:H	3:D:531:LYS:HD2	1.31	0.95
1:H:162:GLU:HG2	1:H:162:GLU:O	1.67	0.95
1:H:43:LEU:O	1:H:47:LEU:CD1	2.14	0.95
2:I:875:ALA:O	2:I:928:VAL:HG23	1.65	0.95
3:J:227:PHE:CE1	3:J:232:ASN:O	2.19	0.95
1:M:47:LEU:HD12	1:M:183:ILE:HD12	0.97	0.95
2:C:467:GLY:O	2:C:471:VAL:HG23	1.67	0.95
3:J:1132:LYS:O	3:J:1133:ASP:HB3	1.66	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:506:VAL:O	3:J:510:LEU:HG	1.66	0.94
2:I:1290:MET:SD	2:I:1294:LYS:HD2	2.06	0.94
2:I:1297:ASP:OD2	2:I:1318:GLY:HA3	1.67	0.94
3:D:1167:LYS:H	3:D:1167:LYS:HD2	1.33	0.94
2:O:1326:LEU:HA	2:O:1329:GLU:OE1	1.67	0.94
3:P:473:THR:HB	3:P:475:GLU:OE1	1.66	0.94
1:A:224:LEU:HD11	1:A:228:LEU:HD11	0.94	0.94
2:C:870:ILE:HG13	2:C:944:ARG:HG2	1.50	0.94
2:I:1113:LEU:HD23	3:J:641:ILE:HD13	1.47	0.94
3:P:337:ARG:HD3	3:P:341:ASN:HD21	1.32	0.94
5:R:518:HIS:O	5:R:520:GLY:N	2.01	0.94
3:J:1344:LEU:HA	3:J:1349:GLU:OE1	1.68	0.94
1:B:38:THR:HB	1:B:39:LEU:HD23	1.50	0.94
3:D:515:ARG:HH21	3:D:717:VAL:HB	1.32	0.94
3:D:868:TRP:O	3:D:872:LEU:CG	2.16	0.94
5:F:575:GLU:HG2	5:F:578:LYS:HE3	1.48	0.94
3:J:594:GLN:O	3:J:596:LEU:HG	1.68	0.94
3:D:121:PRO:O	3:D:122:SER:HB3	1.66	0.94
5:L:295:CYS:O	5:L:296:LYS:HE3	1.67	0.94
2:O:1042:LEU:HD21	2:O:1049:ILE:HD11	1.50	0.94
2:I:540:ARG:NH2	8:6:13:GTP:O1G	2.01	0.94
3:J:502:PRO:HG2	3:J:601:ILE:CG2	1.98	0.94
3:P:1266:ILE:HD12	3:P:1278:GLU:HB2	1.49	0.94
2:C:878:THR:HG22	2:C:879:GLY:H	1.29	0.93
2:I:593:LYS:NZ	2:I:595:THR:OG1	2.01	0.93
3:P:514:THR:HG21	3:P:596:LEU:HD12	0.95	0.93
5:R:583:THR:HG22	5:R:586:ARG:HB3	1.50	0.93
3:J:363:LEU:HD23	3:J:618:VAL:CG1	1.97	0.93
3:D:378:LYS:NZ	5:F:532:LEU:HD11	1.83	0.93
1:A:38:THR:C	1:A:39:LEU:HD23	1.88	0.93
1:A:69:SER:O	1:A:78:ILE:CD1	2.16	0.93
1:B:142:MET:N	1:B:142:MET:HE3	1.82	0.93
2:O:878:THR:CG2	2:O:879:GLY:H	1.81	0.93
3:D:805:GLN:CB	3:D:1347:LEU:CD1	2.46	0.93
1:H:192:VAL:CG1	1:H:198:LEU:HD22	1.97	0.93
3:J:536:LEU:CD2	3:J:541:LEU:HB2	1.99	0.93
2:C:1061:GLN:HB2	2:C:1062:PRO:HD2	1.51	0.93
3:P:169:LEU:HG	3:P:170:GLU:N	1.82	0.93
1:B:13:LEU:HA	1:B:28:LEU:HD21	1.47	0.93
3:D:530:PRO:HD3	3:D:552:ILE:HD11	1.46	0.93
3:D:974:VAL:HG11	3:D:1028:ILE:HG21	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:190:ALA:H	1:N:199:ASP:HA	1.30	0.93
2:C:452:ARG:C	2:C:453:ILE:HD13	1.88	0.93
2:I:1324:ASN:HA	2:I:1327:LEU:CD1	1.99	0.93
2:I:936:ARG:HG2	2:I:937:ASP:H	1.29	0.93
2:O:551:HIS:HD1	2:O:553:THR:HG1	0.98	0.93
5:F:295:CYS:O	5:F:296:LYS:HB2	1.67	0.93
2:O:260:LYS:HE3	2:O:262:TYR:OH	1.67	0.93
2:I:661:VAL:HG13	2:I:665:ALA:CB	1.99	0.92
3:J:1163:VAL:HG22	3:J:1177:ILE:HG23	1.51	0.92
3:J:1356:LEU:HD13	3:J:1365:TYR:CE1	2.04	0.92
3:P:739:GLN:NE2	3:P:940:ALA:HB3	1.84	0.92
5:R:429:THR:HG1	6:7:39:DA:H8	1.09	0.92
2:O:1305:TYR:HA	2:O:1308:ILE:HD12	1.50	0.92
2:I:798:GLN:HB2	2:I:828:PHE:CZ	2.05	0.92
2:O:118:LYS:NZ	2:O:485:ASP:O	2.03	0.92
3:D:822:MET:HG2	3:D:838:ARG:HH21	1.35	0.92
5:L:381:GLU:O	5:L:384:LEU:HG	1.69	0.92
3:P:492:SER:CB	3:P:495:ASN:OD1	2.17	0.92
3:J:673:VAL:HG11	3:J:678:ARG:HB2	1.49	0.92
5:L:385:ARG:O	5:L:388:ILE:HG23	1.70	0.92
2:O:550:VAL:HG21	3:P:776:THR:CG2	1.99	0.92
3:P:1267:VAL:O	3:P:1268:ASN:HB2	1.69	0.92
1:A:42:ALA:HA	1:B:38:THR:HG23	1.51	0.92
3:D:97:VAL:HG12	3:D:101:ARG:HG3	1.52	0.92
3:D:1163:VAL:HG13	3:D:1176:VAL:O	1.68	0.92
3:D:392:THR:HG1	5:F:609:SER:HG	1.16	0.92
3:J:363:LEU:CD2	3:J:618:VAL:HG13	1.96	0.92
2:O:1322:SER:O	2:O:1325:VAL:HB	1.69	0.92
3:P:868:TRP:O	3:P:872:LEU:HG	1.70	0.92
1:H:68:TYR:CB	3:P:857:LEU:HD13	1.99	0.92
3:P:252:LEU:HD13	3:P:262:THR:HB	1.48	0.92
3:D:130:MET:SD	3:D:135:ILE:CG1	2.56	0.91
2:O:1290:MET:SD	2:O:1294:LYS:HD2	2.10	0.91
2:O:157:PHE:O	2:O:442:VAL:HG13	1.68	0.91
2:C:524:ILE:CD1	2:C:712:SER:HB3	1.99	0.91
5:F:320:ILE:HG23	5:F:327:SER:HB3	1.49	0.91
2:I:1061:GLN:HB2	2:I:1062:PRO:HD2	1.50	0.91
2:I:448:LEU:HD11	2:I:553:THR:C	1.90	0.91
2:I:881:ASP:O	2:I:920:VAL:HG23	1.71	0.91
3:J:1333:THR:O	3:J:1337:VAL:HG23	1.69	0.91
3:D:1267:VAL:O	3:D:1268:ASN:HB2	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:51:DC:O3'	6:4:52:DT:H5'	1.70	0.91
2:I:700:VAL:HG13	2:I:1117:LEU:HD23	1.50	0.91
3:J:1272:SER:HB2	3:J:1274:PHE:CE2	2.06	0.91
5:L:507:MET:HA	5:L:519:LEU:CD2	1.99	0.91
3:J:1175:LEU:HD12	3:J:1176:VAL:H	1.30	0.91
3:J:363:LEU:CG	3:J:487:THR:HG22	2.00	0.91
3:J:363:LEU:HG	3:J:487:THR:CG2	2.01	0.91
3:J:930:LEU:HB3	3:J:1134:ILE:HD12	1.53	0.91
3:D:205:LEU:HD21	3:D:214:ARG:HG3	1.51	0.91
3:D:749:LYS:HB3	3:D:750:PRO:HD2	0.94	0.91
5:L:216:LEU:HG	5:L:220:LYS:HE2	1.51	0.91
5:R:520:GLY:HA2	5:R:523:ILE:CD1	2.01	0.91
1:B:83:LEU:HD11	1:B:86:LYS:HZ2	1.36	0.91
2:I:375:PRO:HD3	5:L:87:VAL:HG11	1.52	0.91
1:B:79:LEU:O	1:B:82:LEU:HB2	1.70	0.91
2:C:883:LEU:HD21	2:C:920:VAL:HG22	1.52	0.91
5:R:265:GLN:O	5:R:269:LEU:HG	1.71	0.91
5:R:583:THR:CG2	5:R:586:ARG:HB3	2.01	0.91
3:D:1173:ARG:O	3:D:1190:ILE:HB	1.71	0.90
1:G:232:VAL:CG1	1:H:218:ARG:HA	2.01	0.90
1:A:180:VAL:HA	1:A:207:THR:HG22	0.92	0.90
1:G:167:PRO:HG2	1:G:170:ARG:HD2	1.54	0.90
2:I:1276:TRP:HE1	3:J:1348:LYS:HZ1	1.13	0.90
3:J:245:LEU:HD21	3:J:249:LEU:HB2	1.51	0.90
3:J:492:SER:HG	3:J:495:ASN:H	1.16	0.90
3:J:848:VAL:HG11	3:J:880:VAL:HG22	1.52	0.90
1:M:48:LEU:HD21	1:M:183:ILE:HG22	1.53	0.90
3:P:797:THR:HA	3:P:800:LEU:HD12	1.53	0.90
2:I:363:LEU:HA	2:I:366:ILE:CD1	2.00	0.90
2:O:15:PHE:CE2	2:O:1182:ILE:HD13	2.06	0.90
1:G:77:ASP:O	1:G:81:ILE:HD12	1.70	0.90
3:J:255:LEU:HD22	3:J:256:ASP:H	1.36	0.90
3:P:720:ASN:O	3:P:724:MET:HG3	1.69	0.90
1:B:47:LEU:CD1	1:B:183:ILE:HD12	1.99	0.90
2:C:903:ARG:NH2	2:C:909:LYS:HG2	1.87	0.90
3:D:146:VAL:HG21	3:D:158:GLN:HB3	1.54	0.90
3:J:536:LEU:HD22	3:J:541:LEU:HB2	1.54	0.90
5:F:423:ARG:HD3	6:1:37:DA:C6	2.06	0.90
2:I:452:ARG:NH2	2:I:458:GLU:OE1	2.05	0.90
3:J:848:VAL:HG21	3:J:880:VAL:CG1	2.00	0.90
5:R:407:GLU:HG2	5:R:442:SER:HB3	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:74:LYS:NZ	3:D:86:GLU:OE2	2.05	0.90
1:G:225:ALA:HA	1:G:228:LEU:HD12	1.54	0.90
2:I:1042:LEU:HD13	2:I:1049:ILE:CD1	2.02	0.90
1:A:35:PHE:O	1:A:39:LEU:CG	2.20	0.90
3:P:490:ILE:HD12	3:P:490:ILE:H	1.36	0.90
1:A:81:ILE:O	1:A:85:LEU:HG	1.72	0.89
2:I:593:LYS:CE	2:I:595:THR:OG1	2.21	0.89
2:O:1314:GLN:HA	4:Q:28:ARG:NH2	1.86	0.89
2:C:13:LYS:HE3	2:C:1149:TYR:O	1.71	0.89
3:D:1230:THR:HA	3:D:1233:ILE:HD12	1.54	0.89
3:D:154:LEU:HD13	3:D:158:GLN:HG2	1.54	0.89
5:F:132:CYS:SG	5:F:257:LYS:CE	2.60	0.89
1:G:112:ALA:HB3	1:G:126:PRO:HA	1.51	0.89
3:J:1231:ARG:O	3:J:1234:VAL:HB	1.71	0.89
3:P:1154:ALA:HB1	3:P:1211:SER:HB2	1.52	0.89
3:D:262:THR:C	5:F:507:MET:HB2	1.92	0.89
1:G:39:LEU:O	1:G:43:LEU:HD12	1.73	0.89
2:I:800:MET:HE2	2:I:800:MET:HA	1.51	0.89
3:J:139:LEU:HD21	3:J:185:ILE:CG1	2.03	0.89
1:N:35:PHE:O	1:N:39:LEU:HG	1.72	0.89
3:P:1075:ARG:HG3	3:P:1192:LYS:HD3	1.53	0.89
2:C:1105:SER:OG	3:D:731:ARG:NH1	2.06	0.89
3:D:262:THR:O	5:F:507:MET:HB2	1.72	0.89
2:I:96:LEU:HB2	2:I:127:ILE:CD1	2.03	0.89
1:M:232:VAL:HG13	1:N:218:ARG:CG	2.02	0.89
3:P:514:THR:CG2	3:P:596:LEU:CD1	2.26	0.89
2:C:1232:MET:HA	2:C:1232:MET:HE2	1.54	0.89
2:I:671:LEU:HD23	2:I:1186:VAL:CG1	2.02	0.89
2:I:1291:LEU:O	3:J:345:LYS:NZ	2.05	0.89
3:P:262:THR:OG1	3:P:266:ASN:ND2	2.06	0.89
1:G:232:VAL:CG2	1:H:221:ALA:HB1	2.02	0.89
1:A:221:ALA:O	1:A:224:LEU:HD23	1.71	0.89
1:A:228:LEU:HA	1:A:231:PHE:CE2	2.06	0.89
2:I:575:LEU:HD11	2:I:579:ALA:HB3	1.51	0.89
5:R:466:ILE:HG22	5:R:470:MET:SD	2.12	0.89
3:D:517:CYS:HB2	3:D:719:PHE:HZ	1.38	0.89
2:I:883:LEU:HD21	2:I:920:VAL:HG22	1.53	0.89
3:P:121:PRO:O	3:P:122:SER:HB3	1.72	0.89
5:L:451:ARG:NH1	6:4:32:DA:OP1	2.06	0.88
2:I:671:LEU:HD23	2:I:1186:VAL:HG11	1.55	0.88
1:G:228:LEU:HA	1:G:231:PHE:CE2	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1164:SER:O	3:J:1175:LEU:HD11	1.73	0.88
3:J:1357:ILE:CD1	3:J:1357:ILE:H	1.86	0.88
2:O:110:PRO:O	2:O:112:GLY:N	2.05	0.88
2:O:1288:GLN:O	2:O:1292:THR:HG22	1.73	0.88
3:P:869:CYS:HA	3:P:872:LEU:HD12	1.54	0.88
2:I:208:ILE:HD11	2:I:365:GLU:HB3	1.53	0.88
2:I:697:LYS:HB3	2:I:790:ASP:OD2	1.73	0.88
3:J:805:GLN:HB2	3:J:1347:LEU:HD12	1.56	0.88
3:D:373:ALA:HA	3:D:376:LEU:HD12	1.55	0.88
3:D:621:ALA:HA	3:D:624:ILE:HD12	1.55	0.88
3:J:575:GLY:HA2	3:J:578:ILE:HD12	1.55	0.88
2:O:217:THR:HA	2:O:220:ILE:HD12	1.55	0.88
2:C:188:PHE:CE2	2:C:432:LEU:HD11	2.08	0.88
2:C:675:ASP:OD2	2:C:677:ASN:ND2	2.05	0.88
3:D:1101:LEU:HD22	3:D:1122:ALA:HB3	1.56	0.88
2:I:1324:ASN:CA	2:I:1327:LEU:HD12	2.04	0.88
2:I:559:CYS:HB2	2:I:662:SER:HB3	1.53	0.88
3:J:697:MET:HE1	3:J:738:ARG:HA	1.52	0.88
1:M:38:THR:CG2	1:N:42:ALA:HA	2.04	0.88
3:P:1333:THR:O	3:P:1337:VAL:HG23	1.73	0.88
3:P:97:VAL:HG13	3:P:101:ARG:HG3	1.55	0.88
2:C:373:GLY:CA	5:F:91:ILE:HG12	2.03	0.88
2:I:1086:PRO:O	2:I:1094:VAL:HG23	1.74	0.88
3:D:614:LEU:CD2	4:E:5:THR:HG21	2.04	0.88
1:G:69:SER:O	1:G:78:ILE:CG1	2.21	0.88
2:I:1042:LEU:HD13	2:I:1049:ILE:HD12	1.53	0.88
3:J:1138:LEU:HB3	3:J:1139:PRO:CD	2.03	0.88
2:O:1104:PRO:HG3	3:P:725:MET:CE	2.04	0.88
3:D:481:ARG:NH1	4:E:3:ARG:O	2.06	0.88
3:J:843:VAL:CG2	3:J:897:HIS:O	2.22	0.88
7:5:11:DA:O3'	7:5:12:DG:P	2.33	0.87
2:C:1180:MET:HG3	2:C:1181:PRO:HD2	1.56	0.87
3:D:269:TYR:O	3:D:273:ILE:HG13	1.74	0.87
1:H:102:LEU:HB2	1:H:115:ILE:CD1	2.04	0.87
3:J:492:SER:HA	3:J:499:ILE:HD11	1.54	0.87
3:D:805:GLN:CB	3:D:1347:LEU:HD12	2.03	0.87
3:J:169:LEU:HG	3:J:170:GLU:N	1.87	0.87
3:P:337:ARG:HD2	3:P:341:ASN:ND2	1.89	0.87
3:D:1263:LYS:HD3	3:D:1281:GLU:HA	1.52	0.87
3:J:421:VAL:HG13	3:J:469:HIS:O	1.74	0.87
3:P:68:TYR:HA	3:P:92:VAL:HG13	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:585:GLU:HG3	7:5:47:DC:N4	1.89	0.87
2:C:521:LEU:HD21	2:C:686:GLN:CB	2.02	0.87
2:O:34:SER:HA	2:O:37:LYS:HD2	1.55	0.87
2:C:577:VAL:HG23	2:C:661:VAL:O	1.75	0.87
2:I:38:PHE:CE1	2:I:461:GLU:HA	2.08	0.87
6:4:48:DA:H2''	6:4:49:DG:H5''	1.54	0.87
1:A:13:LEU:CA	1:A:28:LEU:HD21	2.04	0.87
3:D:734:ALA:CA	3:D:737:ILE:HD12	2.02	0.87
3:D:622:ASP:O	3:D:625:MET:HB3	1.75	0.87
5:R:262:VAL:HG13	5:R:263:PRO:CD	2.03	0.87
6:4:54:DA:H2''	6:4:55:DC:OP2	1.75	0.87
1:B:38:THR:HB	1:B:39:LEU:CD2	2.04	0.87
2:C:681:MET:O	2:C:685:MET:HG2	1.73	0.87
3:D:1362:GLY:O	3:D:1366:HIS:HB2	1.75	0.87
3:D:262:THR:HA	5:F:507:MET:HE3	1.57	0.87
1:G:54:CYS:SG	1:G:148:ARG:HG3	2.14	0.87
5:L:437:GLN:HG2	6:4:35:DC:N4	1.90	0.87
2:C:883:LEU:HD21	2:C:920:VAL:CG2	2.04	0.86
2:I:1325:VAL:O	2:I:1329:GLU:HG3	1.75	0.86
3:J:70:CYS:HB2	3:J:90:VAL:CG1	2.04	0.86
2:O:33:ASP:O	2:O:37:LYS:HG3	1.75	0.86
2:O:539:THR:HG22	2:O:540:ARG:H	1.38	0.86
3:P:138:VAL:HG12	3:P:139:LEU:HG	1.55	0.86
2:C:668:ILE:HG23	2:C:1069:ARG:HB3	1.57	0.86
3:D:1229:VAL:O	3:D:1233:ILE:HG13	1.75	0.86
1:A:109:PRO:HB3	1:A:132:HIS:CD2	2.10	0.86
3:D:139:LEU:HD23	3:D:185:ILE:HD12	1.54	0.86
5:L:507:MET:O	5:L:519:LEU:CB	2.22	0.86
2:O:260:LYS:HE3	2:O:262:TYR:CZ	2.10	0.86
1:B:44:ARG:HA	1:B:183:ILE:HD13	1.57	0.86
5:F:506:SER:HB3	5:F:509:THR:OG1	1.74	0.86
2:I:237:LEU:HD12	2:I:289:VAL:HG13	1.53	0.86
2:C:542:ARG:HH11	6:1:50:DT:H73	1.40	0.86
6:4:47:DC:H3'	6:4:48:DA:H5''	1.55	0.86
2:C:1104:PRO:HG2	2:C:1105:SER:H	1.40	0.86
3:D:805:GLN:HB2	3:D:1347:LEU:HD11	1.57	0.86
3:P:749:LYS:CB	3:P:750:PRO:HD2	1.99	0.86
3:P:849:LEU:CD2	3:P:857:LEU:HD23	2.05	0.86
1:B:15:ASP:HB3	1:B:27:THR:OG1	1.75	0.86
1:B:65:LEU:O	1:B:169:GLY:HA2	1.75	0.86
3:D:350:SER:HB3	3:D:469:HIS:CE1	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1339:LEU:H	2:I:1339:LEU:HD12	1.40	0.86
2:I:528:ARG:CD	2:I:663:VAL:HG21	2.05	0.86
3:J:112:ALA:HA	3:J:238:ILE:CD1	2.04	0.86
3:D:797:THR:HG23	3:D:924:GLY:HA3	1.57	0.86
3:D:943:ARG:HG2	3:D:944:ALA:N	1.91	0.86
2:O:518:ASN:OD1	2:O:761:GLN:HG2	1.75	0.86
4:Q:27:ALA:HA	4:Q:30:MET:SD	2.16	0.86
2:C:217:THR:HA	2:C:220:ILE:HD12	0.90	0.86
2:C:285:ILE:HG22	2:C:286:GLU:H	1.41	0.86
3:D:216:LYS:HA	3:D:219:LYS:HD2	1.57	0.86
3:D:759:ILE:O	3:D:759:ILE:CG2	2.18	0.86
1:M:45:ARG:NH1	2:O:1216:ARG:HA	1.91	0.86
3:P:1328:THR:HG22	3:P:1332:LEU:HD11	1.58	0.86
1:B:201:LEU:HG	1:B:203:ILE:HD11	1.56	0.86
2:C:160:ASP:HB3	2:C:163:LYS:CB	2.06	0.86
3:D:139:LEU:HD21	3:D:185:ILE:HD13	1.57	0.86
5:F:324:LYS:O	5:F:326:TRP:N	2.09	0.86
2:I:184:LEU:CD2	2:I:389:PHE:CZ	2.56	0.86
2:O:689:ALA:HB1	2:O:1233:LEU:HD22	1.58	0.86
3:P:1162:ILE:HG13	3:P:1180:VAL:CG1	2.06	0.86
3:D:205:LEU:CD2	3:D:214:ARG:HG3	2.05	0.85
3:J:70:CYS:HB3	3:J:92:VAL:HG22	1.57	0.85
5:R:262:VAL:HG13	5:R:263:PRO:HD2	1.56	0.85
3:J:582:ILE:HG22	3:J:620:PHE:HE1	1.40	0.85
3:P:975:ILE:HD13	3:P:980:THR:HG21	1.57	0.85
2:C:10:ARG:NH1	2:C:697:LYS:HB3	1.91	0.85
2:I:448:LEU:CD1	2:I:553:THR:O	2.24	0.85
2:I:593:LYS:HE2	2:I:595:THR:OG1	1.76	0.85
4:Q:6:VAL:HG13	4:Q:51:LEU:HD21	1.57	0.85
3:P:297:ARG:HD3	5:R:100:MET:SD	2.16	0.85
3:D:536:LEU:HD13	3:D:542:ALA:HB2	1.57	0.85
2:I:96:LEU:HB2	2:I:127:ILE:HD11	1.56	0.85
2:C:149:LEU:CD1	2:C:451:ARG:HB3	2.07	0.85
2:C:732:ILE:HD11	2:C:769:PRO:HB3	1.56	0.85
3:D:146:VAL:HG23	3:D:158:GLN:HB3	1.57	0.85
1:G:190:ALA:H	1:G:199:ASP:HA	1.42	0.85
1:G:48:LEU:CD2	1:G:180:VAL:HB	2.07	0.85
2:I:764:CYS:SG	2:I:831:ILE:HD12	2.16	0.85
2:O:1120:ALA:HB1	2:O:1198:LEU:HG	1.59	0.85
2:O:1243:MET:HG2	3:P:372:MET:CE	2.07	0.85
5:F:117:ILE:HG23	5:F:421:TYR:HB2	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:520:GLY:HA2	5:F:523:ILE:HD11	1.58	0.85
1:H:85:LEU:CD2	1:H:130:ILE:HG23	2.01	0.85
3:J:392:THR:HG1	5:L:609:SER:HG	1.24	0.85
3:D:1233:ILE:O	3:D:1237:VAL:HG23	1.77	0.85
5:L:295:CYS:O	5:L:296:LYS:HB2	1.74	0.85
5:R:117:ILE:HG23	5:R:421:TYR:HB2	1.57	0.85
2:I:541:GLU:OE1	6:4:52:DT:N3	2.09	0.85
3:J:1318:SER:OG	3:J:1321:SER:HB3	1.76	0.85
3:P:109:SER:HB2	3:P:296:LYS:HE2	1.58	0.85
3:D:869:CYS:HA	3:D:872:LEU:CD1	2.04	0.84
1:G:47:LEU:HD13	1:G:183:ILE:HD12	1.59	0.84
3:J:930:LEU:HB3	3:J:1134:ILE:CD1	2.07	0.84
3:J:849:LEU:HD22	3:J:856:ILE:O	1.77	0.84
2:O:1043:ALA:HB1	2:O:1044:PRO:HD2	1.56	0.84
3:D:363:LEU:HD12	3:D:363:LEU:O	1.77	0.84
3:D:614:LEU:HD23	4:E:5:THR:HG21	1.59	0.84
3:D:909:ILE:HD11	3:D:913:GLU:HB3	1.59	0.84
2:I:1005:GLU:HG2	2:I:1006:GLU:H	1.41	0.84
2:C:678:ARG:NH1	2:C:1106:ARG:HD2	1.91	0.84
3:P:1165:PHE:HZ	3:P:1196:LEU:HD12	1.42	0.84
1:A:100:LEU:HD13	1:A:115:ILE:HG22	1.59	0.84
1:G:189:ALA:HA	1:G:199:ASP:HB3	1.59	0.84
2:O:137:VAL:C	2:O:138:ILE:HD13	1.97	0.84
2:O:422:LYS:HA	2:O:425:ILE:HD12	1.58	0.84
5:R:166:VAL:HG12	5:R:168:PRO:HD3	1.60	0.84
3:D:709:ARG:O	3:D:709:ARG:HG3	1.78	0.84
1:G:35:PHE:HB3	1:G:39:LEU:CD1	2.08	0.84
3:J:720:ASN:O	3:J:724:MET:HG3	1.77	0.84
5:L:452:ILE:HG22	5:L:457:ILE:HG12	1.57	0.84
3:D:805:GLN:OE1	3:D:1348:LYS:HG2	1.77	0.84
1:G:69:SER:O	1:G:78:ILE:HG13	1.76	0.84
3:D:1282:TYR:OH	3:D:1304:ARG:NH2	2.10	0.84
1:H:168:ILE:HD11	3:P:867:GLN:CB	2.07	0.84
3:J:1164:SER:C	3:J:1175:LEU:HD11	1.98	0.84
3:J:481:ARG:NH1	4:K:3:ARG:O	2.10	0.84
1:B:133:LEU:HD22	1:B:138:ALA:HB1	1.58	0.84
2:C:1199:LEU:HD22	2:C:1205:PRO:O	1.76	0.84
3:D:367:GLY:O	3:D:447:ILE:CG2	2.26	0.84
1:G:228:LEU:CD1	1:H:228:LEU:CD1	2.55	0.84
2:I:225:PHE:HE2	2:I:347:ILE:HB	1.41	0.84
3:J:318:GLY:HA2	3:J:324:LEU:HD21	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:725:MET:CE	3:D:732:GLY:H	1.91	0.84
1:B:44:ARG:HA	1:B:183:ILE:CD1	2.07	0.84
2:C:445:ILE:HB	2:C:446:ASP:OD1	1.78	0.84
2:C:616:ILE:CG1	2:C:652:TYR:HB2	2.07	0.84
2:I:225:PHE:CE2	2:I:347:ILE:HB	2.11	0.84
2:O:1292:THR:HG23	2:O:1293:VAL:H	1.43	0.84
2:O:73:TYR:HE1	2:O:75:LEU:HD21	1.42	0.84
1:A:224:LEU:HG	1:A:225:ALA:H	1.36	0.83
2:C:764:CYS:HB3	2:C:831:ILE:HB	1.60	0.83
3:D:1288:ALA:O	3:D:1292:LEU:HG	1.77	0.83
5:F:110:LEU:H	5:F:110:LEU:HD12	1.38	0.83
3:J:909:ILE:HG12	3:J:910:ASN:N	1.93	0.83
5:L:440:THR:O	5:L:443:ILE:HG22	1.77	0.83
2:O:202:ARG:HH22	7:8:6:DG:H3'	1.41	0.83
5:R:451:ARG:NH1	5:R:453:PRO:HG3	1.92	0.83
2:C:10:ARG:CZ	2:C:697:LYS:HD3	2.07	0.83
2:C:988:LYS:HZ2	2:C:988:LYS:HB2	1.41	0.83
3:D:367:GLY:O	3:D:447:ILE:HG23	1.78	0.83
3:P:74:LYS:HZ2	3:P:87:LYS:HB2	1.43	0.83
1:B:133:LEU:HD22	1:B:138:ALA:CB	2.08	0.83
3:D:108:ALA:HB3	3:D:279:LEU:HD21	1.59	0.83
1:G:69:SER:O	1:G:78:ILE:HD11	1.78	0.83
3:J:1155:ILE:C	3:J:1156:LEU:HD23	1.98	0.83
2:I:558:VAL:HG22	2:I:574:SER:O	1.78	0.83
3:J:392:THR:OG1	5:L:609:SER:OG	1.96	0.83
2:O:29:SER:OG	2:O:30:ILE:CD1	2.26	0.83
3:P:421:VAL:CG1	3:P:469:HIS:O	2.27	0.83
2:C:1296:ASP:O	2:C:1321:GLU:HG2	1.78	0.83
2:C:871:VAL:HG23	2:C:883:LEU:O	1.77	0.83
3:J:411:ILE:O	3:J:415:VAL:HG23	1.77	0.83
5:L:518:HIS:O	5:L:520:GLY:N	2.11	0.83
2:C:741:MET:SD	2:C:747:GLY:HA3	2.18	0.83
2:I:1243:MET:HG3	3:J:372:MET:CE	2.07	0.83
2:C:160:ASP:CG	2:C:163:LYS:HD3	1.99	0.83
3:D:475:GLU:N	3:D:475:GLU:OE1	2.11	0.83
2:I:1066:MET:HE3	2:I:1233:LEU:O	1.79	0.83
3:J:1226:VAL:O	3:J:1230:THR:OG1	1.95	0.83
2:O:136:PHE:CB	2:O:138:ILE:HD11	2.07	0.83
2:O:15:PHE:HE2	2:O:1182:ILE:HD13	1.41	0.83
3:P:1145:PHE:CE1	3:P:1256:ILE:HD13	2.13	0.83
3:P:621:ALA:HA	3:P:624:ILE:HD12	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:213:PRO:O	1:A:217:ILE:HD12	1.79	0.83
2:I:1276:TRP:CD1	2:I:1279:GLU:OE1	2.29	0.83
2:O:206:ALA:O	2:O:209:ILE:CG2	2.21	0.83
1:H:68:TYR:CD1	1:H:79:LEU:HD21	2.14	0.83
2:I:228:VAL:CG1	2:I:239:MET:HE3	2.09	0.83
2:I:732:ILE:HD11	2:I:769:PRO:HB3	1.61	0.83
2:O:1117:LEU:HD12	2:O:1195:ILE:HG23	1.59	0.83
1:M:45:ARG:HD3	1:N:38:THR:HG23	1.59	0.82
3:P:337:ARG:CD	3:P:341:ASN:ND2	2.41	0.82
5:R:426:LYS:HE2	6:7:40:DA:OP2	1.80	0.82
1:B:88:LEU:HD22	1:B:128:HIS:CD2	2.13	0.82
3:D:115:TRP:CH2	3:D:1332:LEU:HD12	2.13	0.82
2:I:1116:HIS:CD2	3:J:641:ILE:HD11	2.14	0.82
5:L:452:ILE:HG23	5:L:456:MET:HG2	1.61	0.82
3:D:1190:ILE:HG22	3:D:1191:PRO:O	1.79	0.82
5:F:407:GLU:HG2	5:F:442:SER:CB	2.09	0.82
5:F:564:GLY:O	5:F:567:MET:O	1.96	0.82
1:H:68:TYR:HB2	3:P:857:LEU:CD1	2.06	0.82
3:J:1212:ASP:N	3:J:1212:ASP:OD1	2.11	0.82
2:O:211:ARG:HD3	2:O:357:ASN:O	1.78	0.82
3:P:492:SER:HG	3:P:495:ASN:H	1.23	0.82
3:P:425:ARG:NH2	8:9:16:U:O2'	2.12	0.82
1:G:232:VAL:CG2	1:H:221:ALA:HB3	2.09	0.82
2:I:1313:HIS:CE1	3:J:380:PHE:HE1	1.97	0.82
3:P:403:ARG:O	3:P:404:GLU:HB2	1.79	0.82
2:I:1212:LEU:HD12	2:I:1225:VAL:HB	1.61	0.82
2:I:1289:GLU:OE1	3:J:472:LEU:HB2	1.79	0.82
2:I:405:PHE:HZ	2:I:424:ASP:HB3	1.45	0.82
3:D:1179:PRO:HD2	3:D:1184:ASP:O	1.79	0.82
3:P:322:ARG:HE	5:R:510:PRO:CD	1.92	0.82
2:C:551:HIS:H	2:C:554:HIS:CE1	1.97	0.82
2:I:178:PRO:HA	2:I:397:LEU:CD2	2.09	0.82
2:I:696:ASP:HB2	2:I:798:GLN:HG2	1.60	0.82
3:J:1164:SER:O	3:J:1175:LEU:HD12	1.79	0.82
3:J:844:THR:HG23	3:J:862:THR:O	1.80	0.82
2:O:171:LEU:HD22	2:O:188:PHE:O	1.78	0.82
3:P:1145:PHE:CB	3:P:1309:ILE:HD11	2.08	0.82
2:C:373:GLY:HA3	5:F:91:ILE:HG12	1.59	0.82
3:D:1101:LEU:CD2	3:D:1122:ALA:HB3	2.09	0.82
1:H:190:ALA:HA	1:H:200:LYS:HG3	1.60	0.82
1:H:224:LEU:HG	1:H:225:ALA:N	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:767:LEU:HD12	3:P:772:TYR:HD1	1.44	0.82
5:R:548:LEU:HD23	5:R:551:LEU:HD12	1.62	0.82
5:R:586:ARG:O	5:R:590:ILE:HG13	1.79	0.82
7:8:23:DT:H3'	7:8:24:DT:H5''	1.61	0.82
2:O:1333:LEU:HB2	2:O:1335:ILE:HD12	1.60	0.82
2:O:59:ILE:CG2	2:O:476:LYS:HE3	2.09	0.82
3:P:139:LEU:HD22	3:P:182:ALA:HA	1.61	0.82
3:P:128:LEU:HD11	3:P:189:LEU:HD21	1.62	0.82
3:P:492:SER:HB3	3:P:495:ASN:OD1	1.78	0.82
2:I:14:ASP:OD2	2:I:1156:ARG:NH2	2.12	0.82
5:R:440:THR:O	5:R:443:ILE:HG22	1.80	0.82
1:B:86:LYS:HB3	1:B:176:CYS:SG	2.20	0.81
1:G:228:LEU:HD13	1:H:224:LEU:CD1	2.03	0.81
2:I:764:CYS:HA	2:I:833:ILE:CD1	2.09	0.81
2:O:939:VAL:HG21	2:O:1047:LEU:HD22	1.62	0.81
2:C:160:ASP:CB	2:C:163:LYS:HD3	2.09	0.81
2:C:1291:LEU:HD13	3:D:1354:GLY:HA2	1.60	0.81
3:D:707:ILE:HG22	3:D:708:ASN:H	1.44	0.81
1:H:81:ILE:O	1:H:85:LEU:HG	1.79	0.81
2:I:886:LYS:HD2	2:I:916:SER:HB2	1.60	0.81
2:O:280:ASP:O	2:O:281:ASP:HB2	1.79	0.81
2:O:589:THR:CG2	2:O:590:PRO:HD2	2.10	0.81
1:B:213:PRO:O	1:B:217:ILE:HD13	1.79	0.81
2:C:14:ASP:HA	2:C:1183:ALA:HB3	1.61	0.81
1:N:212:ASP:OD1	1:N:213:PRO:HD2	1.80	0.81
3:P:262:THR:C	5:R:507:MET:HB2	1.99	0.81
1:A:182:ARG:HD3	2:C:1092:THR:HG23	1.60	0.81
3:D:347:VAL:HG12	3:D:348:ASP:O	1.80	0.81
1:G:214:GLU:HA	1:G:217:ILE:HD12	1.61	0.81
2:I:1299:ASN:O	2:I:1302:THR:HG22	1.81	0.81
2:O:8:LYS:HD3	2:O:1168:GLU:OE1	1.80	0.81
3:P:503:SER:O	3:P:506:VAL:HG23	1.80	0.81
2:C:569:ILE:HD12	3:D:783:LEU:HD23	1.62	0.81
3:D:544:LEU:HD22	3:D:578:ILE:HD11	1.63	0.81
1:G:69:SER:O	1:G:78:ILE:CD1	2.29	0.81
3:J:422:LEU:O	3:J:468:VAL:CG1	2.28	0.81
3:P:1226:VAL:O	3:P:1230:THR:OG1	1.97	0.81
3:P:370:LYS:HA	3:P:441:LEU:HD22	1.62	0.81
5:R:449:THR:CB	5:R:504:PRO:HG3	2.11	0.81
1:H:186:ASN:O	1:H:201:LEU:HD12	1.80	0.81
2:I:1108:ASN:OD1	2:I:1108:ASN:N	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:297:VAL:HG22	2:I:315:MET:H	1.44	0.81
3:J:299:LEU:O	3:J:303:VAL:HG23	1.80	0.81
2:I:1280:ALA:HB3	3:J:431:ARG:HB3	1.62	0.81
3:J:849:LEU:CD2	3:J:857:LEU:HD23	2.10	0.81
1:N:60:GLU:O	1:N:142:MET:HB2	1.81	0.81
3:D:930:LEU:CB	3:D:1134:ILE:HD11	2.11	0.81
1:H:50:SER:O	1:H:150:ARG:HD2	1.80	0.81
2:I:363:LEU:O	2:I:366:ILE:HB	1.80	0.81
3:J:322:ARG:HB2	3:J:323:PRO:HD2	1.62	0.81
2:O:550:VAL:HG23	3:P:780:ARG:CD	2.11	0.81
1:A:45:ARG:HD3	1:B:38:THR:CB	2.09	0.81
2:C:559:CYS:CB	2:C:662:SER:HB3	2.09	0.81
3:D:703:THR:HG22	3:D:717:VAL:HA	1.63	0.81
3:P:739:GLN:NE2	3:P:940:ALA:CB	2.43	0.81
3:D:372:MET:O	3:D:376:LEU:HG	1.80	0.81
2:C:1309:VAL:O	3:D:383:GLY:HA2	1.81	0.81
3:P:1253:ILE:O	3:P:1257:VAL:HG23	1.80	0.81
3:D:485:MET:O	3:D:489:ASN:ND2	2.13	0.81
2:C:1120:ALA:O	2:C:1124:ILE:HG13	1.80	0.81
3:P:1163:VAL:CG1	3:P:1175:LEU:HD21	2.11	0.81
1:B:102:LEU:HB2	1:B:115:ILE:HD11	1.63	0.80
3:D:1226:VAL:O	3:D:1230:THR:OG1	1.99	0.80
4:E:27:ALA:HA	4:E:30:MET:SD	2.20	0.80
2:I:936:ARG:HG2	2:I:937:ASP:N	1.92	0.80
3:J:1175:LEU:HD12	3:J:1176:VAL:N	1.94	0.80
3:J:848:VAL:HG21	3:J:880:VAL:HG13	1.63	0.80
3:P:1078:LEU:HD13	3:P:1121:LEU:HD22	1.64	0.80
2:C:1174:GLU:O	2:C:1177:ARG:HB3	1.81	0.80
2:C:149:LEU:HD11	2:C:451:ARG:CB	2.11	0.80
1:M:180:VAL:HA	1:M:207:THR:HG22	1.64	0.80
3:P:1282:TYR:O	3:P:1285:VAL:CG1	2.30	0.80
3:P:253:VAL:HB	3:P:254:PRO:HD2	1.63	0.80
5:R:387:VAL:HG23	5:R:435:ILE:HD13	1.63	0.80
5:R:443:ILE:O	5:R:447:ALA:HB2	1.80	0.80
2:C:617:ALA:HA	2:C:636:CYS:SG	2.22	0.80
3:D:544:LEU:HD22	3:D:578:ILE:CD1	2.11	0.80
3:J:1347:LEU:O	3:J:1351:VAL:HG23	1.80	0.80
2:O:1184:THR:OG1	2:O:1189:GLY:HA3	1.81	0.80
2:O:790:ASP:O	2:O:792:GLY:N	2.13	0.80
3:D:1257:VAL:HA	3:D:1260:MET:HE3	1.62	0.80
3:J:255:LEU:HD13	3:J:257:GLY:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1243:MET:HG3	3:J:372:MET:HE2	1.61	0.80
3:J:546:ALA:O	3:J:548:VAL:HG23	1.80	0.80
3:P:406:ALA:HA	3:P:409:TRP:HD1	1.46	0.80
1:B:39:LEU:O	1:B:43:LEU:HD12	1.82	0.80
3:D:442:ILE:HG13	3:D:442:ILE:O	1.80	0.80
2:I:1315:MET:HE2	3:J:473:THR:HG21	1.64	0.80
5:L:123:ILE:HD13	5:L:376:LYS:CE	2.11	0.80
1:N:86:LYS:CE	1:N:174:ASP:HB2	2.11	0.80
3:P:421:VAL:HG12	3:P:469:HIS:O	1.82	0.80
3:D:822:MET:HG2	3:D:838:ARG:NH2	1.97	0.80
5:L:452:ILE:HG23	5:L:456:MET:CG	2.12	0.80
2:O:1271:GLY:O	2:O:1275:VAL:HG23	1.82	0.80
3:D:339:ARG:NH2	3:D:1325:PHE:O	2.14	0.80
1:G:45:ARG:HD3	1:H:38:THR:OG1	1.81	0.80
2:I:528:ARG:HD3	2:I:663:VAL:HG21	1.64	0.80
3:J:1230:THR:HA	3:J:1233:ILE:HD12	1.61	0.80
3:J:1230:THR:O	3:J:1234:VAL:HG23	1.80	0.80
3:J:279:LEU:O	3:J:283:LEU:HG	1.81	0.80
1:M:61:ILE:HG12	1:M:142:MET:HE2	1.61	0.80
5:R:583:THR:O	5:R:587:ILE:HD11	1.82	0.80
3:J:1267:VAL:O	3:J:1268:ASN:HB2	1.80	0.80
2:I:1280:ALA:HB1	3:J:431:ARG:HB3	1.63	0.80
3:J:809:VAL:HG21	3:J:909:ILE:HD13	1.64	0.80
5:L:401:PHE:O	5:L:405:ILE:HG13	1.82	0.80
1:M:69:SER:O	1:M:78:ILE:HG13	1.81	0.80
3:D:318:GLY:HA2	3:D:324:LEU:HD21	1.62	0.80
3:D:759:ILE:HD11	3:D:767:LEU:HD13	1.63	0.80
2:I:164:THR:O	2:I:165:HIS:HB2	1.80	0.80
3:J:497:GLU:HB3	3:J:498:PRO:HD2	1.63	0.80
5:L:93:ARG:CD	5:L:93:ARG:O	2.29	0.80
2:O:197:ARG:HB3	2:O:200:ARG:HA	1.64	0.80
2:C:209:ILE:HG23	2:C:210:LEU:N	1.96	0.79
3:D:385:LEU:HD22	3:D:391:ALA:HB2	1.64	0.79
5:F:404:LEU:HD23	5:F:439:ILE:HG12	1.62	0.79
2:I:237:LEU:HG	2:I:289:VAL:HG22	1.64	0.79
2:O:1261:GLY:HA2	7:8:16:DC:OP1	1.80	0.79
1:A:179:PRO:CA	1:A:208:ASN:HD21	1.96	0.79
1:B:82:LEU:HD22	1:B:173:VAL:HG13	1.61	0.79
3:D:734:ALA:O	3:D:737:ILE:HB	1.82	0.79
3:J:1046:ILE:HG22	3:J:1061:VAL:HA	1.64	0.79
3:J:797:THR:CG2	3:J:924:GLY:HA3	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:575:LEU:HD11	2:O:579:ALA:HB3	1.64	0.79
4:Q:6:VAL:HG13	4:Q:51:LEU:CD2	2.12	0.79
1:B:217:ILE:CD1	1:B:217:ILE:H	1.96	0.79
2:C:1232:MET:HA	2:C:1232:MET:CE	2.12	0.79
2:C:1313:HIS:CE1	3:D:380:PHE:HE1	2.00	0.79
2:C:667:LEU:HD11	2:C:708:VAL:HG21	1.62	0.79
2:C:1309:VAL:O	3:D:383:GLY:CA	2.30	0.79
4:E:45:LYS:O	4:E:49:ILE:HG13	1.83	0.79
2:I:142:GLU:OE1	2:I:517:GLN:NE2	2.15	0.79
2:I:661:VAL:CG1	2:I:665:ALA:CB	2.58	0.79
2:I:846:GLY:HA3	2:I:889:PRO:HG2	1.64	0.79
3:J:1239:ASP:O	3:J:1243:LEU:HG	1.81	0.79
2:C:263:VAL:HG11	2:C:269:ILE:HD11	1.65	0.79
3:D:749:LYS:HG2	3:D:755:ILE:CD1	2.12	0.79
1:G:106:GLY:HA2	1:G:136:GLU:CA	2.13	0.79
2:I:178:PRO:HA	2:I:397:LEU:HD23	1.64	0.79
2:I:838:CYS:SG	2:I:886:LYS:HE3	2.21	0.79
3:J:309:ASN:HD21	3:J:316:ILE:H	1.31	0.79
1:N:31:LEU:HD11	1:N:39:LEU:CD1	2.11	0.79
2:O:202:ARG:HB2	2:O:369:MET:HE3	1.64	0.79
5:R:564:GLY:O	5:R:567:MET:O	2.00	0.79
2:C:82:VAL:HG23	2:C:83:GLN:N	1.95	0.79
5:F:385:ARG:O	5:F:388:ILE:HG22	1.81	0.79
2:I:148:GLN:NE2	2:I:533:LEU:O	2.16	0.79
6:7:48:DA:H2"	6:7:49:DG:H5"	1.64	0.79
2:C:17:LYS:NZ	2:C:1189:GLY:O	2.14	0.79
3:D:759:ILE:CD1	3:D:767:LEU:HD13	2.12	0.79
3:D:922:SER:O	3:D:926:PRO:HD3	1.83	0.79
5:F:399:LEU:HD13	5:F:403:ASP:HB3	1.64	0.79
3:J:282:LEU:CD2	3:J:287:ALA:HB2	2.08	0.79
2:O:671:LEU:HD11	2:O:679:ALA:HB1	1.65	0.79
1:B:61:ILE:CD1	1:B:61:ILE:H	1.93	0.79
3:D:478:LEU:CD1	4:E:24:ALA:HB2	2.13	0.79
5:F:457:ILE:HA	5:F:460:ILE:HD12	1.64	0.79
2:I:993:PRO:HG2	2:I:996:ARG:HE	1.48	0.79
3:J:423:LEU:HB3	3:J:466:MET:HE1	1.65	0.79
3:J:519:ASN:CB	3:J:523:GLU:HB2	2.13	0.79
2:I:1116:HIS:CD2	3:J:641:ILE:CD1	2.66	0.79
2:I:1252:SER:HA	2:I:1259:LEU:HD21	1.64	0.79
2:I:1275:VAL:O	2:I:1279:GLU:HG3	1.82	0.79
2:I:755:LYS:HZ1	2:I:769:PRO:HD3	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:883:LEU:HD21	2:I:920:VAL:HG23	1.64	0.79
5:R:262:VAL:CG1	5:R:263:PRO:HD2	2.11	0.79
7:8:25:DA:H2"	7:8:26:DT:OP2	1.79	0.79
2:C:559:CYS:SG	2:C:560:PRO:HD2	2.23	0.79
3:D:470:VAL:HG12	3:D:472:LEU:HD23	1.65	0.79
3:D:497:GLU:HB3	3:D:498:PRO:HD2	1.65	0.79
2:I:241:LEU:HD11	2:I:246:LEU:CD1	2.13	0.79
3:J:1252:HIS:O	3:J:1255:VAL:HB	1.83	0.79
3:J:146:VAL:HG11	3:J:155:GLU:O	1.81	0.79
3:J:553:THR:HG23	3:J:566:LYS:C	2.01	0.79
2:I:1187:PHE:CZ	3:J:769:VAL:HA	2.18	0.79
3:P:1230:THR:HA	3:P:1233:ILE:HD12	1.65	0.79
5:R:110:LEU:H	5:R:110:LEU:HD12	1.46	0.79
5:R:449:THR:HB	5:R:504:PRO:HG3	1.63	0.79
3:J:97:VAL:HG12	3:J:101:ARG:HG3	1.64	0.78
3:J:543:SER:O	3:J:574:VAL:HG21	1.82	0.78
2:O:478:ARG:NH1	2:O:492:MET:HA	1.97	0.78
2:O:693:LEU:HB2	2:O:831:ILE:HD11	1.65	0.78
3:P:673:VAL:HG11	3:P:678:ARG:HB2	1.64	0.78
3:D:583:VAL:O	3:D:583:VAL:HG12	1.82	0.78
3:J:1138:LEU:CB	3:J:1139:PRO:CD	2.61	0.78
3:J:20:ILE:HD13	3:J:1320:ILE:HD11	1.63	0.78
2:O:897:PRO:HB2	5:R:565:ILE:CG1	2.13	0.78
3:J:519:ASN:HB3	3:J:523:GLU:CD	2.03	0.78
3:J:885:VAL:HG12	3:J:886:VAL:N	1.97	0.78
3:P:749:LYS:HG3	3:P:755:ILE:HG12	1.65	0.78
1:A:157:THR:O	1:A:160:HIS:HB3	1.82	0.78
5:F:451:ARG:HH12	6:1:32:DA:P	2.06	0.78
3:D:337:ARG:HA	3:D:341:ASN:ND2	1.98	0.78
2:C:1314:GLN:HG3	4:E:28:ARG:CZ	2.14	0.78
3:D:337:ARG:HA	3:D:341:ASN:HD22	1.47	0.78
3:J:342:LEU:HB3	3:J:1352:ILE:HG23	1.63	0.78
3:J:475:GLU:HG3	4:K:24:ALA:HB1	1.66	0.78
5:L:120:ALA:HA	5:L:123:ILE:HD12	1.65	0.78
2:O:557:ARG:HD3	2:O:587:LEU:HB2	1.65	0.78
1:A:39:LEU:O	1:A:43:LEU:HD12	1.83	0.78
1:B:83:LEU:CD1	1:B:86:LYS:HZ2	1.94	0.78
3:D:649:LYS:O	3:D:653:ILE:HG13	1.84	0.78
3:P:783:LEU:O	3:P:786:THR:HG22	1.83	0.78
2:C:746:ALA:HB2	2:C:971:LEU:HD13	1.66	0.78
1:G:228:LEU:HD12	1:H:228:LEU:HD13	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:227:PHE:HE1	3:J:232:ASN:O	1.66	0.78
1:N:61:ILE:HB	1:N:64:VAL:HB	1.65	0.78
2:O:672:GLU:HG2	2:O:1187:PHE:HA	1.64	0.78
4:Q:13:ILE:HD12	4:Q:19:LEU:HB2	1.66	0.78
5:F:110:LEU:N	5:F:110:LEU:HD12	1.99	0.78
5:F:591:GLU:O	5:F:595:LEU:HG	1.84	0.78
2:I:1294:LYS:HD3	3:J:347:VAL:HG12	1.64	0.78
3:J:582:ILE:HG22	3:J:620:PHE:CE1	2.19	0.78
3:J:848:VAL:HG21	3:J:880:VAL:HG11	1.66	0.78
2:O:949:GLU:O	2:O:953:LEU:HG	1.84	0.78
3:P:673:VAL:HG13	3:P:674:THR:O	1.83	0.78
3:P:739:GLN:HE22	3:P:940:ALA:CB	1.95	0.78
7:8:25:DA:C1'	7:8:26:DT:H5''	2.12	0.78
3:D:747:MET:HE2	3:D:774:ILE:HG22	1.66	0.78
1:M:11:PRO:HB2	1:N:231:PHE:HZ	1.47	0.78
3:P:700:ASN:O	3:P:704:GLU:HB2	1.83	0.78
5:R:262:VAL:CG1	5:R:263:PRO:CD	2.61	0.78
1:B:83:LEU:HD13	1:B:86:LYS:CD	2.14	0.77
1:G:102:LEU:CD1	1:G:114:ASP:O	2.33	0.77
2:I:1128:ILE:O	2:I:1132:LEU:HG	1.84	0.77
2:I:850:ILE:HG22	2:I:885:GLY:O	1.84	0.77
3:J:309:ASN:HD21	3:J:316:ILE:N	1.81	0.77
3:J:909:ILE:HD11	3:J:913:GLU:HB3	1.66	0.77
3:P:1266:ILE:HD13	3:P:1274:PHE:HB3	1.66	0.77
1:N:101:THR:CG2	1:N:143:ARG:HG2	2.09	0.77
3:P:1343:GLU:C	3:P:1344:LEU:HG	2.02	0.77
1:G:232:VAL:HG13	1:H:218:ARG:HA	1.65	0.77
1:G:66:HIS:NE2	1:G:69:SER:HB3	1.99	0.77
3:J:625:MET:HG2	3:J:629:PHE:CE2	2.18	0.77
3:P:1321:SER:O	3:P:1324:SER:OG	2.03	0.77
5:R:401:PHE:O	5:R:405:ILE:HG13	1.83	0.77
5:R:506:SER:O	5:R:519:LEU:CD2	2.31	0.77
3:J:156:ARG:HD3	3:J:188:LEU:HD11	1.66	0.77
1:M:232:VAL:CG2	1:N:221:ALA:HB3	2.13	0.77
3:P:421:VAL:HG23	3:P:439:PRO:HG2	1.66	0.77
3:P:490:ILE:HD12	3:P:490:ILE:N	1.99	0.77
3:P:74:LYS:NZ	3:P:87:LYS:HB2	1.99	0.77
2:C:530:ILE:HD12	2:C:573:ASN:O	1.84	0.77
2:C:622:ASN:HB3	2:C:630:VAL:HG21	1.64	0.77
2:C:878:THR:HG22	2:C:879:GLY:N	1.99	0.77
2:C:809:GLY:HA3	3:D:629:PHE:CE1	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1326:LEU:CA	2:I:1329:GLU:OE1	2.28	0.77
2:I:237:LEU:HD11	2:I:289:VAL:HG13	1.66	0.77
5:L:93:ARG:CG	5:L:93:ARG:O	2.32	0.77
1:A:38:THR:HG23	1:B:42:ALA:CA	2.13	0.77
2:C:1104:PRO:HG2	2:C:1105:SER:N	1.99	0.77
5:F:91:ILE:HD11	5:F:103:ARG:HH12	1.48	0.77
2:I:878:THR:HG22	2:I:879:GLY:H	1.50	0.77
3:J:473:THR:HB	3:J:475:GLU:OE1	1.84	0.77
2:C:496:LYS:HB2	2:C:497:PRO:HD3	1.64	0.77
2:O:209:ILE:HG23	2:O:210:LEU:N	2.00	0.77
1:A:234:LEU:HD22	1:B:12:ARG:HH12	1.50	0.77
2:C:726:TYR:HB3	2:C:733:VAL:HG22	1.66	0.77
3:D:50:LYS:HD3	3:D:71:LEU:CD2	2.15	0.77
1:G:117:HIS:NE2	1:G:121:VAL:O	2.18	0.77
2:I:78:PRO:HB3	2:I:93:SER:O	1.83	0.77
3:J:1132:LYS:O	3:J:1133:ASP:CB	2.32	0.77
3:J:1173:ARG:O	3:J:1190:ILE:HD12	1.84	0.77
2:O:15:PHE:HE2	2:O:1182:ILE:CD1	1.96	0.77
2:O:91:THR:HG23	2:O:138:ILE:HA	1.67	0.77
3:P:1230:THR:O	3:P:1234:VAL:HG23	1.85	0.77
3:P:268:LEU:O	3:P:272:VAL:HG23	1.84	0.77
1:B:44:ARG:NH1	3:D:538:ARG:HD2	2.00	0.77
3:D:805:GLN:CA	3:D:1347:LEU:HD11	2.14	0.77
3:D:478:LEU:HD22	4:E:20:VAL:HG13	1.66	0.77
3:D:770:LEU:HD23	3:D:771:GLN:HG3	1.64	0.77
2:I:237:LEU:O	2:I:287:VAL:HG22	1.84	0.77
2:I:178:PRO:HB3	2:I:395:TYR:CZ	2.20	0.77
3:J:1163:VAL:CG2	3:J:1177:ILE:HG23	2.15	0.77
6:4:54:DA:H1'	6:4:55:DC:H5'	1.67	0.77
2:C:1306:LYS:HD3	5:F:535:ALA:HA	1.67	0.77
5:F:580:PHE:O	5:F:581:ASP:HB2	1.83	0.77
2:I:38:PHE:HE1	2:I:461:GLU:CA	1.95	0.77
3:J:372:MET:O	3:J:376:LEU:CG	2.28	0.77
2:O:1198:LEU:O	2:O:1198:LEU:HD12	1.85	0.77
2:O:890:LYS:HZ1	2:O:893:THR:HG23	1.48	0.77
3:P:664:ILE:HD12	3:P:685:ILE:HD11	1.65	0.77
1:A:232:VAL:HG22	1:B:221:ALA:HB3	1.66	0.76
1:B:61:ILE:CD1	1:B:171:LEU:CD1	2.64	0.76
2:C:149:LEU:HD21	2:C:451:ARG:NE	2.00	0.76
2:C:988:LYS:HB2	2:C:988:LYS:HZ3	1.46	0.76
3:D:378:LYS:HA	3:D:381:ILE:HD12	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:421:VAL:CG2	3:D:439:PRO:HG2	2.14	0.76
1:H:59:VAL:HG22	1:H:144:ILE:HG23	1.64	0.76
3:J:421:VAL:HG13	3:J:470:VAL:HA	1.66	0.76
2:O:1135:GLN:HG3	2:O:1136:GLN:H	1.50	0.76
3:P:1154:ALA:CB	3:P:1211:SER:HB2	2.14	0.76
3:P:245:LEU:HD12	3:P:246:PRO:CD	2.14	0.76
3:P:682:VAL:HA	3:P:685:ILE:HD12	1.67	0.76
3:D:1217:PRO:HA	3:D:1220:ILE:HD12	1.66	0.76
1:H:102:LEU:HB2	1:H:115:ILE:HD13	1.66	0.76
3:P:367:GLY:O	3:P:447:ILE:HG22	1.84	0.76
5:R:551:LEU:HB2	5:R:556:ALA:HB2	1.67	0.76
2:C:748:ILE:HD11	2:C:970:GLY:HA3	1.65	0.76
3:D:943:ARG:CG	3:D:944:ALA:H	1.92	0.76
1:G:102:LEU:HD12	1:G:103:ASN:N	1.99	0.76
1:H:82:LEU:HD23	1:H:82:LEU:N	1.99	0.76
2:I:1327:LEU:HA	2:I:1330:ILE:HD12	1.66	0.76
3:J:1321:SER:O	3:J:1324:SER:OG	2.03	0.76
3:J:474:LEU:O	3:J:478:LEU:HG	1.85	0.76
1:M:41:ASN:O	1:M:45:ARG:HG3	1.85	0.76
3:P:253:VAL:HB	3:P:254:PRO:HD3	1.67	0.76
3:P:608:CYS:HG	3:P:617:THR:HG22	1.46	0.76
3:P:58:CYS:SG	3:P:60:ARG:HB3	2.25	0.76
1:A:9:LEU:O	1:B:227:GLN:NE2	2.19	0.76
1:B:47:LEU:CD1	1:B:183:ILE:CD1	2.60	0.76
3:D:514:THR:HG21	3:D:596:LEU:CG	2.16	0.76
3:D:526:VAL:O	3:D:527:LEU:HD23	1.85	0.76
3:D:703:THR:HB	3:D:716:GLN:O	1.86	0.76
1:G:232:VAL:HG21	1:H:221:ALA:HB1	1.67	0.76
2:I:1313:HIS:NE2	3:J:380:PHE:HE1	1.82	0.76
2:I:1333:LEU:HD13	2:I:1335:ILE:HD12	1.68	0.76
2:I:218:GLU:OE1	2:I:299:LYS:HG2	1.85	0.76
1:A:19:VAL:HG12	1:A:20:SER:N	2.00	0.76
3:D:138:VAL:HG12	3:D:185:ILE:HD11	1.66	0.76
3:D:572:THR:OG1	3:D:576:ARG:HB2	1.85	0.76
3:D:620:PHE:O	3:D:624:ILE:CG1	2.33	0.76
5:F:130:VAL:HG13	5:F:365:MET:HG3	1.67	0.76
2:I:241:LEU:CD1	2:I:246:LEU:HD11	2.14	0.76
3:J:70:CYS:HB2	3:J:90:VAL:HB	1.66	0.76
1:N:61:ILE:HA	1:N:142:MET:HB2	1.66	0.76
3:P:1190:ILE:HG22	3:P:1191:PRO:O	1.86	0.76
2:C:560:PRO:HG2	2:C:561:ILE:HG12	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:839:VAL:O	2:C:886:LYS:NZ	2.17	0.76
2:I:513:GLN:OE1	2:I:526:HIS:NE2	2.18	0.76
3:J:1357:ILE:HD13	3:J:1357:ILE:H	1.50	0.76
3:P:697:MET:O	3:P:701:LEU:HB2	1.85	0.76
3:P:932:MET:CE	8:9:17:C:H2'	2.16	0.76
3:D:975:ILE:HD13	3:D:980:THR:HG21	1.68	0.76
1:G:51:MET:SD	1:G:52:PRO:HD2	2.25	0.76
3:J:739:GLN:HG2	3:J:744:ARG:HG3	1.67	0.76
3:J:767:LEU:HD23	3:J:767:LEU:N	2.00	0.76
3:J:797:THR:HG23	3:J:924:GLY:HA3	1.65	0.76
5:L:235:ILE:HG23	5:L:240:ARG:HA	1.68	0.76
5:L:324:LYS:O	5:L:326:TRP:N	2.19	0.76
1:N:71:LYS:HD3	1:N:140:ILE:HD12	1.66	0.76
2:O:1326:LEU:O	2:O:1330:ILE:CD1	2.28	0.76
3:P:1328:THR:O	3:P:1332:LEU:CG	2.33	0.76
3:P:139:LEU:CD1	3:P:185:ILE:HD12	2.13	0.76
5:R:407:GLU:HG2	5:R:442:SER:CB	2.15	0.76
5:R:84:LEU:HD11	5:R:107:THR:HG21	1.66	0.76
3:D:544:LEU:HA	3:D:574:VAL:HB	1.68	0.76
3:J:681:LYS:O	3:J:685:ILE:HG13	1.85	0.76
1:M:227:GLN:NE2	1:N:9:LEU:O	2.12	0.76
2:O:539:THR:HG22	2:O:540:ARG:N	2.00	0.76
3:P:259:ARG:HH11	5:R:502:LYS:HG2	1.49	0.76
3:D:720:ASN:O	3:D:724:MET:HG3	1.86	0.76
3:J:128:LEU:HD11	3:J:189:LEU:HD21	1.68	0.76
3:J:197:GLU:O	3:J:201:LEU:HG	1.86	0.76
3:J:872:LEU:CD2	3:J:872:LEU:C	2.55	0.76
2:O:932:GLN:HB3	2:O:934:PHE:CZ	2.19	0.76
3:P:599:LYS:HG3	3:P:600:ALA:H	1.48	0.76
2:O:1261:GLY:HA3	7:8:16:DC:OP1	1.84	0.76
3:D:1280:VAL:HG12	3:D:1281:GLU:N	2.00	0.76
3:D:138:VAL:CG1	3:D:185:ILE:HD11	2.15	0.76
3:D:512:TYR:CE2	3:D:635:SER:HB2	2.21	0.76
2:O:496:LYS:CB	2:O:497:PRO:HD3	2.09	0.76
3:P:68:TYR:CA	3:P:92:VAL:HG13	2.16	0.76
1:A:42:ALA:HA	1:B:38:THR:CG2	2.16	0.75
1:B:83:LEU:HD11	1:B:86:LYS:NZ	1.99	0.75
2:C:263:VAL:CG1	2:C:269:ILE:HD11	2.16	0.75
1:G:153:VAL:HG13	1:G:157:THR:HB	1.66	0.75
3:D:1326:GLN:NE2	7:2:10:DC:H4'	2.00	0.75
1:B:221:ALA:O	1:B:224:LEU:HB3	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:16:GLY:O	2:C:1156:ARG:HB3	1.86	0.75
2:I:76:GLY:HA3	2:I:95:PRO:HG2	1.68	0.75
5:L:561:MET:SD	5:L:579:GLN:OE1	2.43	0.75
5:R:520:GLY:HA2	5:R:523:ILE:HD11	1.68	0.75
2:C:1141:LEU:O	2:C:1145:ILE:HD12	1.87	0.75
3:D:113:HIS:HB2	3:D:239:LEU:HD11	1.69	0.75
3:D:805:GLN:CB	3:D:1347:LEU:HD11	2.13	0.75
3:D:805:GLN:C	3:D:1347:LEU:HD11	2.07	0.75
5:F:395:THR:HG22	5:F:404:LEU:HD13	1.68	0.75
5:R:381:GLU:O	5:R:384:LEU:HG	1.87	0.75
2:C:557:ARG:O	2:C:575:LEU:HD12	1.86	0.75
2:C:1294:LYS:HE2	3:D:349:TYR:HB2	1.68	0.75
1:B:44:ARG:NH1	3:D:538:ARG:CD	2.50	0.75
3:J:1167:LYS:H	3:J:1167:LYS:HD2	1.51	0.75
3:J:480:ALA:HA	3:J:484:MET:SD	2.26	0.75
3:J:848:VAL:CG2	3:J:880:VAL:HG13	2.16	0.75
3:D:707:ILE:HG22	3:D:708:ASN:N	2.01	0.75
3:P:1165:PHE:HZ	3:P:1196:LEU:CD1	1.99	0.75
3:P:1145:PHE:O	3:P:1309:ILE:HG13	1.87	0.75
2:I:15:PHE:HB3	2:I:17:LYS:NZ	2.00	0.75
2:I:994:ARG:HA	2:I:994:ARG:HH11	1.52	0.75
3:J:294:ASN:HB3	5:L:406:GLN:HE22	1.52	0.75
3:J:378:LYS:HG2	3:J:382:TYR:HE2	1.49	0.75
2:O:73:TYR:CE1	2:O:75:LEU:HD21	2.20	0.75
3:P:1332:LEU:HD23	3:P:1332:LEU:N	1.98	0.75
3:P:416:ILE:HD12	3:P:441:LEU:HG	1.67	0.75
1:B:142:MET:SD	1:B:144:ILE:HD11	2.26	0.75
2:C:447:HIS:HD2	2:C:449:GLY:H	1.35	0.75
2:O:1138:VAL:HA	2:O:1141:LEU:HD12	1.67	0.75
2:O:1246:ARG:HD2	2:O:1265:PHE:O	1.85	0.75
3:P:978:ARG:HG3	3:P:1212:ASP:HB3	1.68	0.75
5:R:386:LEU:HD13	6:7:41:DT:O4'	1.87	0.75
2:C:160:ASP:HB3	2:C:163:LYS:HB3	1.68	0.75
2:C:727:VAL:HG23	2:C:773:LEU:HD13	1.69	0.75
3:D:1090:ILE:HG12	3:D:1097:ALA:HB2	1.68	0.75
3:D:1132:LYS:HG2	3:D:1243:LEU:HD21	1.67	0.75
3:D:848:VAL:HG21	3:D:880:VAL:HG22	1.67	0.75
2:I:184:LEU:HD11	2:I:389:PHE:CE2	2.22	0.75
3:J:1282:TYR:CZ	3:J:1304:ARG:NH2	2.52	0.75
3:J:245:LEU:HD21	3:J:249:LEU:CB	2.17	0.75
3:J:805:GLN:HB2	3:J:1347:LEU:CD1	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:276:MET:O	5:R:280:VAL:HG23	1.87	0.75
6:4:34:DG:N2	7:5:29:DC:O2	2.19	0.75
2:C:1184:THR:HG23	2:C:1184:THR:O	1.86	0.75
3:D:1321:SER:O	3:D:1324:SER:OG	2.04	0.75
3:D:492:SER:HG	3:D:495:ASN:H	1.34	0.75
3:J:803:VAL:HG22	3:J:1313:SER:OG	1.87	0.75
3:D:544:LEU:CD2	3:D:578:ILE:HD11	2.16	0.74
2:I:838:CYS:SG	2:I:886:LYS:CE	2.75	0.74
2:O:898:GLU:OE1	5:R:565:ILE:HG12	1.86	0.74
6:7:34:DG:N2	7:8:29:DC:O2	2.19	0.74
6:7:28:DA:N6	7:8:34:DG:C6	2.54	0.74
2:C:1297:ASP:OD2	2:C:1318:GLY:HA3	1.86	0.74
1:G:232:VAL:HG12	1:H:218:ARG:HA	1.68	0.74
2:I:1273:MET:CG	7:5:13:DA:H4'	2.17	0.74
3:J:115:TRP:CZ2	3:J:1329:THR:HG22	2.22	0.74
3:P:1326:GLN:NE2	7:8:10:DC:H4'	2.03	0.74
5:R:306:PHE:O	5:R:310:GLU:HG3	1.86	0.74
1:A:41:ASN:ND2	2:C:1218:GLY:CA	2.50	0.74
2:C:810:TYR:CE1	3:D:359:PRO:HG3	2.22	0.74
1:G:151:GLY:O	1:G:177:TYR:HB2	1.88	0.74
2:I:807:TRP:O	2:I:809:GLY:N	2.20	0.74
2:I:1269:ARG:HA	3:J:346:ARG:HA	1.69	0.74
3:D:30:ILE:HG23	3:D:243:PRO:HB3	1.68	0.74
3:D:328:ALA:HA	3:D:331:ILE:HD12	1.69	0.74
2:I:873:ILE:HG12	2:I:944:ARG:HH22	1.53	0.74
2:I:878:THR:HG22	2:I:879:GLY:N	2.01	0.74
3:J:185:ILE:CG2	3:J:189:LEU:HD11	2.15	0.74
3:J:112:ALA:CA	3:J:238:ILE:HD12	2.08	0.74
3:J:492:SER:CB	3:J:495:ASN:OD1	2.36	0.74
5:L:166:VAL:HG11	5:L:212:ILE:HG13	1.70	0.74
2:O:835:GLU:O	2:O:836:LEU:HD23	1.87	0.74
3:P:681:LYS:O	3:P:685:ILE:HG13	1.87	0.74
1:B:191:ARG:HG3	1:B:196:THR:HG22	1.69	0.74
2:I:702:THR:HG22	2:I:1184:THR:O	1.87	0.74
2:I:488:MET:HB3	2:I:489:PRO:HD2	1.70	0.74
3:J:613:GLY:O	3:J:617:THR:CG2	2.35	0.74
3:P:1002:VAL:HB	3:P:1019:ASN:O	1.87	0.74
3:P:332:LYS:O	3:P:333:GLY:O	2.05	0.74
3:P:575:GLY:HA2	3:P:578:ILE:HD12	1.69	0.74
2:C:1086:PRO:O	2:C:1094:VAL:HG23	1.88	0.74
2:C:206:ALA:O	2:C:209:ILE:CG2	2.31	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1223:ARG:HD3	3:D:637:ALA:HA	1.69	0.74
5:F:487:MET:O	5:F:488:LEU:HB3	1.88	0.74
1:H:67:GLU:HG2	1:H:171:LEU:HD22	1.68	0.74
2:I:86:GLN:HA	2:I:140:GLY:HA2	1.70	0.74
2:I:520:PRO:O	2:I:524:ILE:HD12	1.87	0.74
3:J:1163:VAL:HG13	3:J:1176:VAL:C	2.08	0.74
2:O:667:LEU:HD13	2:O:796:LEU:HD11	1.69	0.74
3:P:314:ARG:NH1	5:R:96:ASP:OD1	2.20	0.74
3:P:808:VAL:HG13	3:P:914:ALA:HA	1.70	0.74
2:C:250:THR:HA	2:C:268:ARG:HG2	1.69	0.74
2:I:10:ARG:CZ	2:I:697:LYS:HD3	2.17	0.74
3:J:1163:VAL:CG1	3:J:1176:VAL:O	2.36	0.74
3:J:705:THR:HG21	3:J:716:GLN:HE21	1.53	0.74
3:J:899:TYR:CE1	3:J:915:ILE:HG21	2.23	0.74
2:O:83:GLN:O	2:O:87:ILE:HG13	1.87	0.74
3:P:322:ARG:CB	3:P:323:PRO:HD2	2.12	0.74
1:A:224:LEU:CD1	1:A:228:LEU:CD1	2.49	0.74
2:C:1273:MET:CE	7:2:13:DA:H5"	2.17	0.74
2:C:807:TRP:O	2:C:809:GLY:N	2.20	0.74
2:I:402:ARG:CG	2:I:416:GLY:HA3	2.15	0.74
3:J:1052:GLU:HG2	3:J:1053:LEU:H	1.51	0.74
3:J:580:TRP:HA	3:J:583:VAL:CG2	2.18	0.74
3:P:242:LEU:HD12	3:P:243:PRO:HD2	1.68	0.74
2:C:1271:GLY:HA3	7:2:14:DC:OP1	1.87	0.74
7:5:6:DG:H8	7:5:6:DG:OP2	1.71	0.74
2:C:1288:GLN:O	2:C:1292:THR:HG22	1.88	0.74
3:D:1135:THR:O	3:D:1139:PRO:HD2	1.88	0.74
1:H:205:MET:HG3	1:H:205:MET:O	1.82	0.74
2:I:402:ARG:HG2	2:I:416:GLY:CA	2.14	0.74
3:J:245:LEU:CD2	3:J:249:LEU:HB2	2.18	0.74
2:C:353:VAL:O	2:C:355:PRO:HD3	1.88	0.74
3:D:530:PRO:HD2	3:D:531:LYS:NZ	2.03	0.74
5:F:575:GLU:CG	5:F:578:LYS:HE3	2.17	0.74
2:O:979:LEU:HD21	2:O:1011:LEU:HD13	1.67	0.74
2:C:1253:LEU:HD12	5:F:525:ASP:HB2	1.69	0.73
2:I:1117:LEU:HD11	2:I:1182:ILE:HD12	1.70	0.73
2:I:1212:LEU:O	2:I:1221:PHE:CD2	2.40	0.73
1:M:47:LEU:O	1:M:51:MET:HG2	1.87	0.73
6:1:48:DA:H2"	6:1:49:DG:H5"	1.70	0.73
2:C:539:THR:HG22	2:C:540:ARG:N	2.02	0.73
1:G:46:ILE:CD1	1:G:224:LEU:HB2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:596:LEU:CD2	3:J:600:ALA:HB1	2.18	0.73
3:J:608:CYS:SG	3:J:617:THR:HG22	2.28	0.73
3:J:644:MET:O	3:J:764:ARG:NH1	2.21	0.73
1:M:190:ALA:H	1:M:199:ASP:HA	1.53	0.73
5:R:231:THR:HG21	5:R:252:LEU:HD22	1.69	0.73
1:B:217:ILE:CD1	1:B:217:ILE:N	2.50	0.73
2:C:18:ARG:HH22	2:C:622:ASN:CG	1.90	0.73
3:J:1257:VAL:HA	3:J:1260:MET:HE1	1.65	0.73
3:J:264:ASP:N	3:J:264:ASP:OD1	2.20	0.73
2:I:900:LYS:HZ3	5:L:563:PHE:HE1	1.34	0.73
3:P:1253:ILE:HA	3:P:1256:ILE:CD1	2.18	0.73
3:P:115:TRP:CZ2	3:P:1329:THR:HG22	2.23	0.73
3:P:610:ARG:CZ	3:P:901:ARG:HH12	2.02	0.73
4:Q:48:VAL:O	4:Q:51:LEU:HB2	1.88	0.73
5:R:309:ASN:OD1	5:R:312:SER:HB3	1.87	0.73
5:R:505:ILE:HD12	7:8:22:DA:H62	1.52	0.73
2:C:1305:TYR:CE2	3:D:379:PRO:HB3	2.22	0.73
1:G:232:VAL:HG21	1:H:221:ALA:CB	2.16	0.73
1:H:217:ILE:H	1:H:217:ILE:HD12	1.54	0.73
1:M:208:ASN:O	1:M:210:THR:N	2.19	0.73
3:P:886:VAL:HG21	3:P:1230:THR:HG21	1.71	0.73
5:R:84:LEU:CD1	5:R:107:THR:HG21	2.18	0.73
2:C:409:LEU:CD1	2:C:427:ASP:HB3	2.18	0.73
3:J:797:THR:HA	3:J:800:LEU:CD1	2.18	0.73
2:O:260:LYS:CE	2:O:262:TYR:OH	2.36	0.73
3:P:371:LYS:O	3:P:374:LEU:HD23	1.88	0.73
5:R:401:PHE:O	5:R:405:ILE:CG1	2.36	0.73
1:A:140:ILE:HG13	1:A:141:SER:N	2.03	0.73
3:D:600:ALA:O	3:D:604:MET:HG3	1.89	0.73
2:I:615:VAL:HG22	2:I:638:SER:HB2	1.70	0.73
3:J:703:THR:O	3:J:718:SER:HB3	1.89	0.73
3:P:843:VAL:HG21	3:P:897:HIS:O	1.89	0.73
2:C:255:ILE:HG22	2:C:255:ILE:O	1.88	0.73
2:C:616:ILE:HG12	2:C:652:TYR:CB	2.14	0.73
3:D:314:ARG:HH21	5:F:95:THR:HG23	1.53	0.73
1:H:30:PRO:HG3	1:H:192:VAL:CG2	2.18	0.73
2:I:384:LEU:O	2:I:388:LEU:HG	1.87	0.73
2:O:1296:ASP:HB3	2:O:1321:GLU:H	1.53	0.73
3:D:334:LYS:NZ	7:2:13:DA:OP1	2.21	0.73
1:B:86:LYS:HE2	1:B:173:VAL:HG12	1.70	0.73
2:C:1077:SER:CA	3:D:356:THR:CG2	2.66	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1340:GLU:HB2	3:D:19:ALA:O	1.88	0.73
3:J:786:THR:OG1	3:J:932:MET:HA	1.88	0.73
3:J:931:THR:O	3:J:935:PHE:CD2	2.41	0.73
1:M:184:ALA:HB2	2:O:1091:GLY:HA3	1.71	0.73
4:Q:5:THR:HG22	4:Q:7:GLN:H	1.53	0.73
2:I:734:ILE:HG23	2:I:749:ASP:HB2	1.70	0.73
3:J:1155:ILE:O	3:J:1156:LEU:HD23	1.88	0.73
3:J:378:LYS:O	3:J:382:TYR:CD2	2.41	0.73
2:O:529:ARG:C	2:O:530:ILE:HG12	2.08	0.73
3:P:1080:ILE:HB	3:P:1097:ALA:HB3	1.71	0.73
3:P:452:LEU:HD22	3:P:502:PRO:HA	1.71	0.73
3:P:665:GLN:O	3:P:668:PHE:HB3	1.87	0.73
3:P:739:GLN:HG2	3:P:744:ARG:HG3	1.70	0.73
3:P:930:LEU:HB2	3:P:1134:ILE:HD11	1.69	0.73
2:C:542:ARG:HH21	6:1:51:DC:N4	1.86	0.73
1:B:217:ILE:HD12	1:B:217:ILE:N	2.03	0.73
2:C:1066:MET:HG2	2:C:1234:LYS:HA	1.69	0.73
2:O:524:ILE:HD11	2:O:712:SER:HB3	1.71	0.73
5:R:323:ASN:CG	5:R:324:LYS:H	1.92	0.73
1:A:168:ILE:H	1:A:168:ILE:CD1	1.95	0.72
3:D:303:VAL:O	3:D:307:LEU:HG	1.88	0.72
3:D:734:ALA:HA	3:D:737:ILE:CD1	2.05	0.72
1:G:224:LEU:O	1:G:228:LEU:HG	1.89	0.72
2:O:109:ALA:HB1	2:O:110:PRO:HD2	1.70	0.72
2:O:719:LYS:O	2:O:779:ARG:NH1	2.22	0.72
1:G:192:VAL:HG21	1:G:198:LEU:HB2	1.69	0.72
1:G:26:VAL:O	1:G:203:ILE:HD12	1.89	0.72
1:G:229:GLU:O	1:G:233:ASP:HB2	1.89	0.72
1:H:102:LEU:HB2	1:H:115:ILE:HD11	1.70	0.72
2:I:3:TYR:O	2:I:8:LYS:HE3	1.89	0.72
3:J:146:VAL:CG1	3:J:155:GLU:O	2.36	0.72
4:K:53:GLU:HB3	4:K:59:ILE:HG13	1.72	0.72
5:R:310:GLU:HB3	5:R:355:ILE:HD13	1.72	0.72
2:C:395:TYR:HE2	2:C:420:LEU:HD21	1.53	0.72
3:D:1224:ARG:HB3	3:D:1228:ALA:HB3	1.69	0.72
3:D:252:LEU:HD11	3:D:260:PHE:CD2	2.24	0.72
3:J:237:MET:O	3:J:238:ILE:HD13	1.88	0.72
2:O:137:VAL:O	2:O:138:ILE:HD13	1.89	0.72
2:C:1121:ALA:HA	2:C:1124:ILE:HD12	1.69	0.72
2:I:130:MET:HG2	2:I:131:THR:O	1.88	0.72
2:I:714:VAL:HG13	2:I:786:GLY:HA3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:422:LEU:O	3:J:468:VAL:HG12	1.89	0.72
3:P:1253:ILE:HA	3:P:1256:ILE:HD11	1.71	0.72
7:2:33:DC:H2"	7:2:34:DG:OP2	1.89	0.72
3:D:1167:LYS:H	3:D:1167:LYS:CD	2.03	0.72
2:I:91:THR:HG23	2:I:138:ILE:HA	1.70	0.72
2:I:268:ARG:NH2	3:J:1048:ARG:HD2	2.03	0.72
3:J:805:GLN:O	3:J:1347:LEU:HD11	1.88	0.72
3:J:574:VAL:O	3:J:578:ILE:HG13	1.89	0.72
2:C:237:LEU:O	2:C:287:VAL:HG22	1.89	0.72
3:D:27:PRO:HA	3:D:30:ILE:HD12	1.69	0.72
3:D:574:VAL:O	3:D:578:ILE:HG13	1.88	0.72
3:J:139:LEU:HD21	3:J:185:ILE:HG13	1.70	0.72
1:M:38:THR:HG23	1:N:42:ALA:HA	1.69	0.72
2:O:953:LEU:HD23	2:O:1036:ILE:HD12	1.71	0.72
2:O:30:ILE:HD12	2:O:30:ILE:N	2.04	0.72
2:O:890:LYS:HZ3	2:O:893:THR:HG23	1.50	0.72
2:O:933:VAL:HG22	2:O:1050:VAL:HG13	1.70	0.72
2:O:1243:MET:CG	3:P:372:MET:HE2	2.18	0.72
2:C:325:LEU:HD12	2:C:333:ILE:HD11	1.71	0.72
2:C:953:LEU:O	2:C:957:LYS:HG3	1.89	0.72
1:G:79:LEU:O	1:G:83:LEU:HD23	1.90	0.72
3:J:378:LYS:HG2	3:J:382:TYR:CE2	2.24	0.72
2:O:347:ILE:HD13	2:O:347:ILE:N	2.03	0.72
2:C:1225:VAL:HG13	3:D:638:SER:HB3	1.72	0.72
2:C:211:ARG:CD	2:C:357:ASN:O	2.34	0.72
3:D:262:THR:HA	5:F:507:MET:CE	2.20	0.72
5:F:166:VAL:HG12	5:F:168:PRO:HD3	1.70	0.72
2:I:758:ARG:HG3	2:I:833:ILE:O	1.90	0.72
3:J:1254:GLU:O	3:J:1257:VAL:HB	1.90	0.72
3:J:146:VAL:HG21	3:J:158:GLN:HB2	1.71	0.72
2:O:896:THR:HG23	2:O:899:GLU:H	1.53	0.72
3:P:513:MET:CE	3:P:579:LEU:HD21	2.20	0.72
3:J:580:TRP:O	3:J:583:VAL:HB	1.90	0.72
3:J:70:CYS:HB2	3:J:90:VAL:CB	2.20	0.72
6:4:51:DC:O3'	6:4:52:DT:C5'	2.37	0.72
3:D:450:HIS:HD2	3:D:452:LEU:HB2	1.55	0.72
5:F:514:ASP:O	5:F:516:ASP:N	2.20	0.72
3:J:492:SER:OG	3:J:495:ASN:N	2.23	0.72
2:O:689:ALA:HB2	2:O:1233:LEU:HD13	1.71	0.72
2:O:178:PRO:HA	2:O:397:LEU:HD23	1.70	0.72
1:A:208:ASN:N	1:A:208:ASN:HD22	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:870:ILE:CG1	2:I:944:ARG:HG2	2.16	0.71
3:J:496:GLY:HA2	3:J:903:LEU:CD2	2.13	0.71
3:J:536:LEU:HD21	3:J:541:LEU:HB2	1.73	0.71
3:J:673:VAL:HG11	3:J:678:ARG:CB	2.19	0.71
3:J:977:SER:OG	3:J:980:THR:OG1	2.07	0.71
4:K:6:VAL:O	4:K:10:VAL:HG23	1.89	0.71
1:M:156:SER:O	1:M:159:ILE:HG22	1.89	0.71
2:O:798:GLN:NE2	2:O:827:ARG:HG2	2.04	0.71
2:C:1227:VAL:HG12	2:C:1228:GLY:N	2.05	0.71
3:D:1081:VAL:HB	3:D:1085:GLY:O	1.89	0.71
2:I:1286:THR:O	2:I:1290:MET:HG2	1.89	0.71
3:J:1146:GLU:CD	3:J:1309:ILE:HB	2.11	0.71
5:L:456:MET:O	5:L:460:ILE:HG13	1.90	0.71
5:L:489:MET:SD	5:L:494:ILE:HD11	2.29	0.71
2:O:110:PRO:C	2:O:112:GLY:H	1.94	0.71
2:O:1117:LEU:CD1	2:O:1195:ILE:HG23	2.20	0.71
6:7:23:DA:C2	7:8:41:DG:N2	2.57	0.71
1:A:224:LEU:C	1:A:224:LEU:HD12	2.10	0.71
2:C:10:ARG:NH2	2:C:697:LYS:CD	2.52	0.71
2:C:1241:ASP:O	2:C:1262:LYS:NZ	2.23	0.71
2:C:1272:GLU:O	2:C:1276:TRP:CD1	2.43	0.71
2:C:164:THR:O	2:C:165:HIS:HB2	1.88	0.71
2:C:363:LEU:HA	2:C:366:ILE:HD12	1.72	0.71
2:I:593:LYS:CE	2:I:595:THR:HG1	2.02	0.71
2:I:94:ALA:HB2	2:I:129:LEU:HD11	1.72	0.71
3:J:1137:GLY:O	3:J:1141:VAL:HG23	1.90	0.71
3:J:332:LYS:NZ	3:J:1329:THR:OG1	2.23	0.71
3:J:492:SER:OG	3:J:495:ASN:OD1	2.08	0.71
1:M:47:LEU:O	1:M:51:MET:HB2	1.90	0.71
3:P:614:LEU:O	3:P:617:THR:OG1	2.09	0.71
3:P:795:TYR:CE1	7:8:11:DA:H5'	2.25	0.71
1:A:100:LEU:HD13	1:A:115:ILE:CG2	2.21	0.71
2:C:10:ARG:HH12	2:C:697:LYS:HB3	1.53	0.71
2:C:1121:ALA:HA	2:C:1124:ILE:CD1	2.20	0.71
2:C:1284:ALA:HB1	3:D:1356:LEU:CD2	2.21	0.71
2:C:28:LEU:O	2:C:32:LEU:HD21	1.90	0.71
2:C:936:ARG:NE	2:C:1046:VAL:O	2.24	0.71
3:D:1224:ARG:CD	3:D:1228:ALA:HB1	2.20	0.71
2:I:528:ARG:HD2	2:I:663:VAL:HG21	1.72	0.71
3:J:597:GLY:O	3:J:601:ILE:HG13	1.91	0.71
2:O:1186:VAL:O	2:O:1187:PHE:HB2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:27:DC:H2"	6:4:28:DA:OP2	1.91	0.71
3:P:427:PRO:HB3	7:8:12:DG:H22	1.53	0.71
2:C:1290:MET:SD	2:C:1294:LYS:HD2	2.30	0.71
3:D:1046:ILE:HD12	3:D:1059:LEU:HD13	1.72	0.71
2:C:1286:THR:N	3:D:479:GLU:OE2	2.19	0.71
2:I:843:THR:HB	2:I:845:LEU:HG	1.72	0.71
5:L:132:CYS:SG	5:L:257:LYS:HE3	2.29	0.71
5:L:452:ILE:CG2	5:L:457:ILE:HG12	2.19	0.71
2:O:885:GLY:HA2	2:O:917:SER:OG	1.89	0.71
3:P:492:SER:OG	3:P:495:ASN:OD1	2.08	0.71
2:C:463:GLN:CG	2:C:505:PHE:HD1	1.97	0.71
3:D:1226:VAL:HG12	3:D:1227:HIS:N	2.05	0.71
5:L:137:TYR:CD1	5:L:138:PRO:HD2	2.26	0.71
2:I:542:ARG:NH1	6:4:50:DT:H71	2.06	0.71
1:B:144:ILE:N	1:B:144:ILE:HD12	2.05	0.71
1:B:9:LEU:HD21	1:B:30:PRO:O	1.90	0.71
3:D:115:TRP:CZ3	3:D:1332:LEU:HD12	2.26	0.71
3:D:442:ILE:HD12	3:D:443:GLU:O	1.90	0.71
3:J:1216:ALA:O	3:J:1220:ILE:HG13	1.91	0.71
3:J:1282:TYR:O	3:J:1285:VAL:CG1	2.39	0.71
3:J:422:LEU:O	3:J:468:VAL:HG13	1.90	0.71
1:H:83:LEU:O	3:J:528:THR:HG21	1.91	0.71
1:M:67:GLU:HA	1:M:78:ILE:HG21	1.72	0.71
3:P:1268:ASN:O	3:P:1300:ALA:HB1	1.91	0.71
1:A:140:ILE:HG13	1:A:141:SER:H	1.54	0.71
3:D:1061:VAL:O	3:D:1104:LYS:N	2.24	0.71
3:D:1226:VAL:O	3:D:1229:VAL:HG12	1.91	0.71
3:D:30:ILE:HD13	3:D:243:PRO:HD3	1.73	0.71
3:D:364:HIS:HB3	3:D:487:THR:CG2	2.20	0.71
3:J:253:VAL:HB	3:J:254:PRO:HD2	1.73	0.71
3:P:269:TYR:O	3:P:273:ILE:HG13	1.91	0.71
3:D:415:VAL:HA	4:E:45:LYS:NZ	2.05	0.71
2:I:1282:GLY:H	3:J:483:LEU:HD13	1.56	0.71
3:J:918:ILE:O	3:J:922:SER:OG	2.08	0.71
1:N:152:TYR:CE2	1:N:154:PRO:HG3	2.24	0.71
2:O:1282:GLY:HA3	4:Q:17:PHE:CE1	2.26	0.71
3:P:109:SER:CB	3:P:296:LYS:NZ	2.52	0.71
2:C:525:THR:HG21	2:C:687:ARG:HD3	1.71	0.71
3:D:449:LEU:HD12	3:D:450:HIS:H	1.55	0.71
3:D:530:PRO:HD3	3:D:552:ILE:CD1	2.21	0.71
3:D:949:SER:HB3	3:D:1019:ASN:HD22	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:425:ILE:O	2:I:429:MET:HG3	1.91	0.71
3:J:139:LEU:HD21	3:J:185:ILE:HG12	1.73	0.71
2:O:592:ARG:NH2	2:O:599:VAL:HG12	2.06	0.71
2:O:634:VAL:HG12	2:O:635:THR:H	1.55	0.71
3:D:1145:PHE:CE1	3:D:1256:ILE:HD13	2.25	0.70
1:H:34:GLY:O	1:H:38:THR:OG1	2.09	0.70
2:I:405:PHE:CZ	2:I:424:ASP:HB3	2.26	0.70
2:I:1275:VAL:HG21	3:J:343:LEU:O	1.91	0.70
3:J:722:ILE:HA	3:J:725:MET:SD	2.31	0.70
3:J:393:THR:OG1	5:L:609:SER:HB3	1.91	0.70
1:A:11:PRO:O	1:B:231:PHE:CZ	2.44	0.70
2:C:1324:ASN:HA	2:C:1327:LEU:HD12	1.73	0.70
3:D:1145:PHE:HE1	3:D:1256:ILE:HD13	1.54	0.70
3:D:44:ILE:HD12	3:D:44:ILE:C	2.11	0.70
3:D:749:LYS:CG	3:D:755:ILE:CG1	2.68	0.70
5:F:491:GLU:HA	5:F:494:ILE:HD13	1.72	0.70
2:I:495:ALA:HA	2:I:498:ILE:HD12	1.72	0.70
2:O:1081:PRO:HB3	2:O:1083:GLU:OE1	1.92	0.70
3:P:604:MET:HE2	3:P:605:LEU:HD23	1.73	0.70
1:A:151:GLY:O	1:A:177:TYR:HB2	1.91	0.70
2:C:1121:ALA:HB2	2:C:1182:ILE:HD11	1.74	0.70
2:C:1184:THR:O	2:C:1184:THR:CG2	2.39	0.70
2:C:515:MET:SD	2:C:523:GLU:HG3	2.32	0.70
3:D:977:SER:OG	3:D:980:THR:OG1	2.09	0.70
4:K:48:VAL:O	4:K:51:LEU:HB2	1.91	0.70
2:O:1122:LYS:HE2	2:O:1178:LYS:O	1.89	0.70
2:O:436:ARG:HD2	2:O:436:ARG:O	1.91	0.70
3:P:1075:ARG:CG	3:P:1192:LYS:HD3	2.20	0.70
3:P:859:PRO:HG2	3:P:862:THR:OG1	1.91	0.70
3:P:918:ILE:O	3:P:922:SER:OG	2.07	0.70
2:I:542:ARG:HD2	6:4:51:DC:OP2	1.91	0.70
1:A:184:ALA:HB2	2:C:1091:GLY:HA3	1.72	0.70
3:D:918:ILE:O	3:D:922:SER:OG	2.09	0.70
5:F:554:ARG:HG3	5:F:555:GLU:N	2.07	0.70
2:C:373:GLY:HA2	5:F:91:ILE:HG12	1.72	0.70
1:G:125:LYS:HE2	1:G:127:GLN:HG3	1.72	0.70
1:G:184:ALA:HB2	2:I:1091:GLY:HA3	1.73	0.70
3:J:930:LEU:CB	3:J:1134:ILE:CD1	2.69	0.70
1:M:74:VAL:HG13	1:M:131:CYS:SG	2.31	0.70
3:P:589:TYR:O	3:P:592:VAL:HG13	1.90	0.70
2:C:209:ILE:HG23	2:C:210:LEU:H	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1294:LYS:HD3	3:D:347:VAL:HG13	1.72	0.70
2:I:184:LEU:HD21	2:I:389:PHE:HZ	1.51	0.70
3:J:1158:GLU:HA	3:J:1223:LEU:HD13	1.72	0.70
2:I:1313:HIS:CE1	3:J:380:PHE:CE1	2.78	0.70
3:J:614:LEU:O	3:J:617:THR:OG1	2.08	0.70
3:P:1272:SER:HB2	3:P:1274:PHE:CE2	2.26	0.70
6:4:47:DC:H3'	6:4:48:DA:C5'	2.22	0.70
2:I:1273:MET:HG2	7:5:13:DA:H4'	1.73	0.70
1:G:47:LEU:O	1:G:51:MET:HB2	1.91	0.70
1:G:69:SER:C	1:G:78:ILE:HD11	2.12	0.70
2:I:98:VAL:HG12	2:I:100:LEU:HG	1.74	0.70
3:J:70:CYS:CB	3:J:90:VAL:CG1	2.70	0.70
1:M:41:ASN:HD21	2:O:1218:GLY:HA3	1.54	0.70
2:O:488:MET:HB3	2:O:489:PRO:HD2	1.71	0.70
3:P:495:ASN:HB2	3:P:497:GLU:OE1	1.91	0.70
6:7:44:DG:C2'	6:7:45:DT:O4'	2.38	0.70
2:C:1227:VAL:HG12	2:C:1228:GLY:H	1.57	0.70
2:C:444:ASP:O	2:C:450:ASN:ND2	2.24	0.70
3:D:278:ARG:O	3:D:282:LEU:HG	1.90	0.70
3:D:470:VAL:CG1	3:D:472:LEU:HD23	2.20	0.70
2:I:525:THR:HG21	2:I:687:ARG:HD2	1.74	0.70
3:J:872:LEU:HD22	3:J:873:GLU:N	2.06	0.70
5:F:573:LEU:CB	7:2:45:DG:OP2	2.40	0.70
7:5:42:DG:H2''	7:5:43:DA:OP2	1.91	0.70
3:D:1280:VAL:HG12	3:D:1281:GLU:H	1.54	0.70
5:F:132:CYS:SG	5:F:257:LYS:NZ	2.64	0.70
2:I:871:VAL:CG2	2:I:883:LEU:HA	2.21	0.70
3:J:20:ILE:HD12	3:J:20:ILE:N	2.05	0.70
5:L:496:LYS:HE2	5:L:500:ILE:HD11	1.73	0.70
2:O:886:LYS:N	2:O:917:SER:OG	2.24	0.70
1:A:86:LYS:HG2	1:A:173:VAL:CG1	2.22	0.70
3:D:1256:ILE:C	3:D:1260:MET:HE2	2.12	0.70
2:I:539:THR:HG22	2:I:540:ARG:H	1.57	0.70
3:J:185:ILE:HG22	3:J:189:LEU:CD1	2.20	0.70
2:I:549:ASP:OD2	3:J:781:LYS:HD3	1.92	0.70
3:P:406:ALA:HA	3:P:409:TRP:CD1	2.26	0.70
3:D:464:ASP:OD1	8:3:16:U:H4'	1.92	0.70
2:C:205:PRO:O	2:C:208:ILE:HG22	1.91	0.70
3:D:91:GLU:OE1	3:D:101:ARG:NH2	2.25	0.70
1:H:61:ILE:H	1:H:61:ILE:HD12	1.57	0.70
4:K:79:GLU:HG2	4:K:83:VAL:HG23	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1285:TYR:HD2	3:P:1361:THR:HG21	1.55	0.70
2:O:392:GLU:HG2	2:O:419:ILE:HG21	1.74	0.70
3:P:610:ARG:CZ	3:P:901:ARG:NH1	2.55	0.70
3:P:806:ASP:O	3:P:808:VAL:HG23	1.90	0.70
5:R:456:MET:O	5:R:460:ILE:HG13	1.91	0.70
1:B:61:ILE:CD1	1:B:61:ILE:N	2.37	0.69
3:D:406:ALA:HA	3:D:409:TRP:HD1	1.57	0.69
3:D:933:ARG:NH1	3:D:937:ILE:HD11	2.07	0.69
2:C:1210:ILE:HG22	2:C:1212:LEU:HD23	1.75	0.69
2:C:1225:VAL:HG13	3:D:638:SER:CB	2.22	0.69
3:D:252:LEU:HD11	3:D:260:PHE:HD2	1.56	0.69
5:F:460:ILE:O	5:F:463:LEU:HB2	1.91	0.69
3:J:596:LEU:HD22	3:J:600:ALA:HB1	1.72	0.69
3:P:111:THR:CG2	3:P:112:ALA:N	2.54	0.69
3:P:1282:TYR:O	3:P:1285:VAL:HG12	1.92	0.69
2:C:239:MET:SD	2:C:241:LEU:HD13	2.32	0.69
2:I:1086:PRO:O	2:I:1094:VAL:HG22	1.92	0.69
2:I:790:ASP:O	2:I:792:GLY:N	2.24	0.69
3:J:1328:THR:O	3:J:1332:LEU:HG	1.92	0.69
4:K:50:ALA:O	4:K:54:ILE:HG13	1.92	0.69
2:O:219:GLN:O	2:O:223:LEU:HG	1.91	0.69
3:P:977:SER:OG	3:P:980:THR:OG1	2.08	0.69
5:R:385:ARG:O	5:R:388:ILE:HG22	1.91	0.69
1:B:13:LEU:HD11	1:B:16:ILE:HG12	1.74	0.69
3:D:613:GLY:O	3:D:617:THR:HG23	1.93	0.69
5:F:96:ASP:HB3	5:F:99:ARG:HG2	1.73	0.69
3:J:1080:ILE:HD12	3:J:1115:ILE:HD11	1.74	0.69
3:J:1250:ASP:O	3:J:1254:GLU:HG3	1.91	0.69
3:J:869:CYS:O	3:J:872:LEU:HB3	1.91	0.69
3:P:111:THR:HG22	3:P:112:ALA:N	2.07	0.69
3:P:950:ILE:HB	3:P:1018:ALA:HB3	1.75	0.69
2:C:1065:LYS:NZ	8:3:15:G:H4'	2.07	0.69
2:C:409:LEU:HD13	2:C:427:ASP:HB3	1.74	0.69
2:C:569:ILE:CD1	3:D:783:LEU:HD23	2.23	0.69
2:C:643:SER:OG	2:C:644:LEU:N	2.24	0.69
2:C:861:ALA:O	2:C:865:LEU:HG	1.92	0.69
1:H:28:LEU:HD12	1:H:31:LEU:HD11	1.73	0.69
1:H:35:PHE:O	1:H:39:LEU:CD1	2.40	0.69
2:I:953:LEU:CD2	2:I:957:LYS:NZ	2.54	0.69
3:J:982:LEU:O	3:J:994:SER:OG	2.08	0.69
2:O:693:LEU:HB2	2:O:831:ILE:CD1	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1163:VAL:HG22	3:P:1177:ILE:HG23	1.74	0.69
3:P:298:MET:SD	5:R:402:LEU:HB3	2.31	0.69
3:P:398:LYS:CE	5:R:532:LEU:CD2	2.63	0.69
5:R:390:ILE:HD13	5:R:432:THR:HG23	1.74	0.69
2:I:15:PHE:CG	2:I:1190:ALA:HB2	2.28	0.69
3:J:373:ALA:CA	3:J:376:LEU:HD12	2.05	0.69
3:J:43:THR:HB	3:J:44:ILE:HG23	1.73	0.69
3:J:262:THR:O	5:L:507:MET:HB2	1.93	0.69
3:P:514:THR:HG21	3:P:596:LEU:HG	1.72	0.69
3:P:312:ARG:NH1	5:R:95:THR:OG1	2.25	0.69
3:D:624:ILE:O	3:D:627:THR:HB	1.93	0.69
3:D:749:LYS:HG2	3:D:755:ILE:HD11	1.72	0.69
5:F:551:LEU:HD21	5:F:598:LEU:HD21	1.74	0.69
1:G:42:ALA:HA	1:H:38:THR:HG23	1.74	0.69
3:J:1173:ARG:HB2	3:J:1190:ILE:HB	1.74	0.69
3:J:596:LEU:HD23	3:J:600:ALA:CB	2.21	0.69
2:O:1268:GLN:HG2	3:P:352:ARG:HH11	1.58	0.69
2:O:806:PRO:HG3	3:P:632:ALA:O	1.92	0.69
3:D:791:ALA:HA	7:2:12:DG:O4'	1.92	0.69
3:D:1328:THR:HG22	3:D:1332:LEU:HD11	1.74	0.69
3:D:747:MET:CE	3:D:774:ILE:HG22	2.22	0.69
3:D:378:LYS:HZ3	5:F:532:LEU:HD11	1.55	0.69
5:L:130:VAL:HG13	5:L:365:MET:HG3	1.73	0.69
1:M:47:LEU:HA	1:M:51:MET:HG2	1.72	0.69
5:F:461:ASN:HA	7:2:26:DT:H73	1.75	0.69
1:B:54:CYS:O	1:B:55:ALA:HB2	1.92	0.69
2:C:617:ALA:CA	2:C:636:CYS:SG	2.81	0.69
2:C:906:PHE:HE2	5:F:608:ARG:HH12	1.39	0.69
1:H:203:ILE:HD12	1:H:203:ILE:N	2.07	0.69
1:G:228:LEU:CD1	1:H:228:LEU:HD11	2.23	0.69
2:I:1161:LEU:O	2:I:1164:PHE:HD2	1.75	0.69
2:I:179:TYR:HB3	2:I:396:ASP:O	1.93	0.69
3:J:185:ILE:O	3:J:189:LEU:CG	2.40	0.69
1:N:67:GLU:OE1	1:N:82:LEU:HD11	1.93	0.69
5:L:423:ARG:HD2	6:4:37:DA:C6	2.28	0.69
2:C:519:ASN:OD1	2:C:522:SER:HB2	1.93	0.69
3:D:609:TYR:C	3:D:609:TYR:CD1	2.66	0.69
1:G:208:ASN:HD22	1:G:208:ASN:H	1.41	0.69
2:I:1252:SER:HB2	2:I:1259:LEU:HD23	1.73	0.69
3:J:550:VAL:HG12	3:J:552:ILE:HG12	1.74	0.69
2:O:1243:MET:CG	3:P:372:MET:CE	2.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:580:PHE:O	5:R:581:ASP:HB2	1.91	0.69
7:2:27:DA:H2'	7:2:28:DG:H5'	1.73	0.69
2:C:559:CYS:HB3	2:C:662:SER:HB3	1.74	0.69
2:I:693:LEU:HG	2:I:694:ARG:N	2.08	0.69
3:J:109:SER:CB	3:J:296:LYS:HE2	2.18	0.69
2:O:1109:ILE:HD11	3:P:740:LEU:HD22	1.75	0.69
3:P:1155:ILE:HG22	3:P:1156:LEU:H	1.58	0.69
3:P:272:VAL:HG22	3:P:302:ALA:HB1	1.75	0.69
5:R:387:VAL:HG12	5:R:388:ILE:N	2.08	0.69
2:C:809:GLY:CA	3:D:629:PHE:CE1	2.76	0.68
5:F:494:ILE:O	5:F:498:LEU:HG	1.93	0.68
2:I:592:ARG:NH2	2:I:599:VAL:HG12	2.09	0.68
2:I:800:MET:CE	2:I:800:MET:HA	2.24	0.68
3:J:957:SER:N	3:J:985:ILE:O	2.21	0.68
6:1:45:DT:H2'	6:1:46:DG:O4'	1.92	0.68
2:C:225:PHE:CE2	2:C:347:ILE:HB	2.28	0.68
3:D:474:LEU:HD12	4:E:28:ARG:HE	1.57	0.68
3:D:704:GLU:O	3:D:704:GLU:HG3	1.94	0.68
2:I:1273:MET:HB2	2:I:1274:GLU:OE1	1.93	0.68
2:I:528:ARG:HD3	2:I:663:VAL:CG2	2.22	0.68
5:L:130:VAL:HG13	5:L:365:MET:CG	2.23	0.68
1:A:179:PRO:O	1:A:208:ASN:ND2	2.26	0.68
1:B:102:LEU:HB2	1:B:115:ILE:CD1	2.23	0.68
1:B:65:LEU:O	1:B:169:GLY:CA	2.42	0.68
2:C:801:ARG:NH1	2:C:1229:TYR:OH	2.25	0.68
2:I:1101:LEU:HD11	3:J:508:LEU:HD22	1.74	0.68
2:I:169:LYS:NZ	2:I:190:PRO:O	2.25	0.68
2:I:12:ARG:NH2	2:I:793:GLU:OE1	2.25	0.68
3:J:425:ARG:HD3	3:J:457:TYR:O	1.94	0.68
2:O:1273:MET:HB3	3:P:428:THR:HB	1.75	0.68
3:P:826:ILE:HG23	3:P:831:VAL:HG22	1.74	0.68
3:D:115:TRP:HH2	3:D:1332:LEU:HD12	1.59	0.68
2:C:1291:LEU:HD21	3:D:1351:VAL:O	1.92	0.68
3:J:131:PRO:O	3:J:135:ILE:HG13	1.93	0.68
2:O:672:GLU:CG	2:O:1187:PHE:HA	2.23	0.68
3:P:1282:TYR:O	3:P:1285:VAL:HG13	1.93	0.68
1:A:208:ASN:H	1:A:208:ASN:HD22	1.42	0.68
2:I:1273:MET:HG3	7:5:13:DA:O4'	1.94	0.68
3:J:108:ALA:HB3	3:J:279:LEU:HD21	1.74	0.68
4:K:60:ASN:O	4:K:64:LEU:HG	1.93	0.68
3:P:1266:ILE:CD1	3:P:1278:GLU:HB2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:661:VAL:HG22	3:P:685:ILE:HG21	1.74	0.68
5:R:365:MET:O	5:R:369:GLU:HG3	1.93	0.68
2:C:12:ARG:HA	2:C:1181:PRO:HG2	1.75	0.68
3:D:614:LEU:O	3:D:617:THR:OG1	2.10	0.68
3:D:620:PHE:O	3:D:624:ILE:CD1	2.42	0.68
2:I:211:ARG:HD3	2:I:357:ASN:O	1.93	0.68
2:I:770:CYS:HB3	2:I:791:LEU:CD2	2.24	0.68
3:J:275:ARG:NH1	3:J:301:GLU:OE1	2.26	0.68
1:N:57:THR:HG23	1:N:158:ARG:NH2	2.09	0.68
2:O:964:LEU:HD12	2:O:1021:LEU:HD22	1.75	0.68
3:P:368:LEU:CD2	3:P:373:ALA:HB2	2.22	0.68
2:O:202:ARG:NH2	7:8:6:DG:H3'	2.08	0.68
3:D:268:LEU:O	3:D:272:VAL:HG23	1.93	0.68
3:J:1356:LEU:HD13	3:J:1365:TYR:CZ	2.27	0.68
1:M:215:GLU:OE2	1:M:219:ARG:NH2	2.27	0.68
2:O:213:LEU:O	2:O:214:ASN:HB3	1.93	0.68
2:I:1077:SER:HA	3:J:356:THR:HG21	1.75	0.68
2:I:1174:GLU:O	2:I:1177:ARG:HB3	1.93	0.68
2:I:743:PRO:HA	2:I:974:ARG:HH12	1.58	0.68
5:L:583:THR:O	5:L:587:ILE:HD11	1.94	0.68
2:O:1131:MET:HE2	2:O:1141:LEU:HD23	1.76	0.68
2:O:1325:VAL:HG12	2:O:1326:LEU:N	2.08	0.68
2:O:807:TRP:O	2:O:809:GLY:N	2.27	0.68
3:P:1134:ILE:CG2	3:P:1138:LEU:HG	2.21	0.68
3:P:543:SER:O	3:P:574:VAL:HG21	1.93	0.68
2:C:160:ASP:HA	2:C:163:LYS:HD3	1.75	0.68
2:C:452:ARG:NH1	2:C:454:ARG:HG3	2.09	0.68
1:H:67:GLU:O	1:H:78:ILE:HB	1.93	0.68
2:I:110:PRO:O	2:I:111:GLU:HG3	1.94	0.68
2:I:1257:GLN:HB3	2:I:1258:PRO:HD2	1.75	0.68
2:I:208:ILE:CD1	2:I:365:GLU:HB3	2.24	0.68
2:I:754:THR:N	2:I:767:GLN:OE1	2.27	0.68
3:J:501:VAL:HG13	3:J:502:PRO:HD2	1.76	0.68
3:J:553:THR:HG23	3:J:566:LYS:O	1.94	0.68
2:O:1065:LYS:O	2:O:1235:LEU:HG	1.94	0.68
3:P:673:VAL:CG1	3:P:678:ARG:HB2	2.23	0.68
3:P:797:THR:HG23	3:P:924:GLY:HA3	1.75	0.68
2:C:824:GLN:HE22	2:C:1082:ILE:HD11	1.59	0.68
2:C:463:GLN:CG	2:C:505:PHE:CD1	2.75	0.68
3:D:1283:SER:O	3:D:1287:ILE:HG13	1.93	0.68
2:I:816:ILE:CD1	2:I:1074:GLY:HA3	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:505:ASP:N	3:J:505:ASP:OD1	2.25	0.68
3:P:509:GLY:O	3:P:513:MET:HG3	1.93	0.68
3:P:803:VAL:HG21	3:P:1309:ILE:HG23	1.76	0.68
2:C:1116:HIS:CE1	2:C:1226:THR:HG23	2.29	0.67
3:D:1353:VAL:HG23	3:D:1355:ARG:HG3	1.75	0.67
5:F:562:ARG:HE	5:F:573:LEU:HD13	1.58	0.67
1:G:13:LEU:HA	1:G:28:LEU:HD22	1.74	0.67
2:I:839:VAL:O	2:I:886:LYS:HE2	1.94	0.67
2:O:708:VAL:HG11	2:O:794:LEU:HD22	1.75	0.67
3:P:803:VAL:CG1	3:P:1259:GLN:HB3	2.24	0.67
1:H:168:ILE:CD1	3:P:867:GLN:CB	2.71	0.67
3:P:251:PRO:O	5:R:507:MET:CE	2.42	0.67
2:C:488:MET:HB3	2:C:489:PRO:HD2	1.75	0.67
5:F:452:ILE:HB	5:F:457:ILE:HD11	1.75	0.67
1:H:85:LEU:O	1:H:88:LEU:HB2	1.94	0.67
2:I:1305:TYR:O	2:I:1309:VAL:HG23	1.93	0.67
2:I:448:LEU:HG	2:I:553:THR:OG1	1.94	0.67
2:I:681:MET:O	2:I:685:MET:HG2	1.94	0.67
2:I:704:MET:O	2:I:708:VAL:HG23	1.93	0.67
3:J:1179:PRO:HD3	3:J:1184:ASP:O	1.94	0.67
1:N:61:ILE:HG23	1:N:142:MET:HE2	1.74	0.67
3:P:1233:ILE:O	3:P:1237:VAL:HG23	1.94	0.67
3:P:141:PHE:HA	3:P:180:MET:HG2	1.76	0.67
1:B:83:LEU:CD1	1:B:86:LYS:NZ	2.56	0.67
3:D:703:THR:HA	3:D:718:SER:H	1.59	0.67
1:G:211:ILE:HD12	1:G:219:ARG:HH12	1.58	0.67
3:J:379:PRO:HG2	3:J:380:PHE:H	1.57	0.67
3:J:975:ILE:HD13	3:J:980:THR:HG21	1.74	0.67
3:J:474:LEU:HD12	4:K:28:ARG:HG2	1.76	0.67
2:O:1109:ILE:HD13	2:O:1109:ILE:N	2.08	0.67
2:O:806:PRO:CG	3:P:632:ALA:O	2.42	0.67
5:R:520:GLY:HA2	5:R:523:ILE:HD12	1.77	0.67
3:D:1167:LYS:HD2	3:D:1167:LYS:N	2.09	0.67
2:C:1286:THR:OG1	3:D:479:GLU:OE2	2.10	0.67
2:I:950:GLU:O	2:I:953:LEU:HB2	1.94	0.67
2:I:953:LEU:CD2	2:I:957:LYS:HZ2	2.06	0.67
2:O:589:THR:HG23	2:O:590:PRO:HD2	1.74	0.67
3:P:217:LEU:O	3:P:221:ILE:HG13	1.94	0.67
4:Q:54:ILE:CG1	4:Q:59:ILE:HB	2.23	0.67
1:A:67:GLU:C	1:A:78:ILE:HD12	2.15	0.67
2:C:997:TRP:O	2:C:1000:LEU:HB2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:525:THR:HG21	2:C:687:ARG:CD	2.24	0.67
3:D:298:MET:HE3	5:F:402:LEU:HB2	1.77	0.67
3:D:749:LYS:HG3	3:D:755:ILE:CG1	2.10	0.67
1:H:78:ILE:O	1:H:82:LEU:CG	2.41	0.67
3:J:20:ILE:CD1	3:J:1344:LEU:HD21	2.25	0.67
2:O:164:THR:O	2:O:165:HIS:HB2	1.92	0.67
3:P:128:LEU:HD13	3:P:188:LEU:HD21	1.77	0.67
3:P:608:CYS:SG	3:P:617:THR:CG2	2.75	0.67
5:R:457:ILE:HA	5:R:460:ILE:CD1	2.21	0.67
6:7:54:DA:H1'	6:7:55:DC:H5''	1.77	0.67
2:C:616:ILE:HG23	2:C:653:MET:HA	1.77	0.67
2:C:754:THR:N	2:C:767:GLN:OE1	2.24	0.67
2:I:297:VAL:CG2	2:I:315:MET:H	2.06	0.67
1:G:75:GLN:O	2:I:729:ALA:HB2	1.94	0.67
2:O:112:GLY:O	2:O:114:VAL:N	2.27	0.67
4:Q:48:VAL:HG13	4:Q:51:LEU:HD12	1.75	0.67
5:R:505:ILE:HD12	7:8:22:DA:N6	2.08	0.67
2:O:897:PRO:HB2	5:R:565:ILE:HG13	1.76	0.67
2:C:211:ARG:HG2	2:C:211:ARG:HH11	1.60	0.67
3:D:24:LEU:HD12	3:D:232:ASN:HB3	1.77	0.67
5:F:545:HIS:HA	5:F:548:LEU:HD12	1.76	0.67
2:I:738:GLU:HA	2:I:741:MET:HB2	1.76	0.67
3:J:580:TRP:HA	3:J:583:VAL:HG23	1.76	0.67
5:L:295:CYS:O	5:L:296:LYS:CB	2.41	0.67
2:O:1327:LEU:HD21	2:O:1339:LEU:HD21	1.75	0.67
5:F:573:LEU:HB2	7:2:45:DG:OP2	1.95	0.67
1:A:179:PRO:CB	1:A:208:ASN:HD21	2.07	0.67
2:C:807:TRP:CZ3	2:C:1086:PRO:HD3	2.30	0.67
2:C:593:LYS:HA	2:C:652:TYR:CD1	2.29	0.67
2:C:82:VAL:CG2	2:C:83:GLN:N	2.58	0.67
3:D:1151:LYS:O	3:D:1153:PRO:HD3	1.94	0.67
3:D:205:LEU:HD21	3:D:214:ARG:CG	2.24	0.67
3:D:450:HIS:CD2	3:D:452:LEU:HB2	2.30	0.67
2:I:498:ILE:O	2:I:502:VAL:HG23	1.94	0.67
3:P:43:THR:OG1	3:P:44:ILE:HG12	1.93	0.67
3:P:773:PHE:O	3:P:776:THR:HB	1.95	0.67
5:R:167:ASP:OD2	5:R:262:VAL:HG21	1.94	0.67
5:R:441:ARG:O	5:R:445:ASP:HB2	1.95	0.67
1:B:158:ARG:HH21	1:B:175:ALA:CB	2.08	0.67
1:B:43:LEU:O	1:B:47:LEU:HD12	1.94	0.67
3:D:121:PRO:O	3:D:122:SER:CB	2.39	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:644:MET:HE2	3:D:764:ARG:HB2	1.77	0.67
5:L:458:GLU:OE2	7:5:28:DG:H8	1.77	0.67
2:O:1284:ALA:HB1	3:P:1356:LEU:HD22	1.77	0.67
3:P:601:ILE:CA	3:P:604:MET:SD	2.79	0.67
3:D:44:ILE:HG22	3:D:51:PRO:HA	1.77	0.67
2:C:1219:GLU:OE1	3:D:634:ARG:HD3	1.94	0.67
5:F:91:ILE:HG23	5:F:94:THR:OG1	1.95	0.67
5:L:493:LYS:O	5:L:497:VAL:HG23	1.94	0.67
2:O:901:LEU:O	2:O:905:ILE:HG13	1.94	0.67
5:R:385:ARG:O	5:R:388:ILE:CG2	2.43	0.67
1:A:69:SER:C	1:A:78:ILE:HD11	2.11	0.66
2:C:160:ASP:CA	2:C:163:LYS:HD3	2.25	0.66
2:I:448:LEU:HG	2:I:553:THR:CB	2.25	0.66
3:J:1309:ILE:HG22	3:J:1310:THR:N	2.10	0.66
3:J:759:ILE:HG12	3:J:771:GLN:HG2	1.77	0.66
5:L:583:THR:HG21	5:L:586:ARG:HB3	1.76	0.66
1:M:232:VAL:CG1	1:N:218:ARG:HG2	2.22	0.66
2:O:247:ARG:HD2	2:O:274:ILE:HG21	1.76	0.66
3:P:111:THR:CG2	3:P:300:GLN:HG3	2.25	0.66
3:P:111:THR:CG2	3:P:112:ALA:H	2.08	0.66
3:P:367:GLY:O	3:P:447:ILE:CG2	2.43	0.66
3:D:1333:THR:O	3:D:1337:VAL:HG23	1.94	0.66
2:I:575:LEU:HG	2:I:576:SER:O	1.96	0.66
3:J:1133:ASP:CG	3:J:1134:ILE:H	1.98	0.66
3:J:596:LEU:CD2	3:J:600:ALA:CB	2.73	0.66
3:J:84:ILE:HD12	3:J:84:ILE:H	1.59	0.66
2:O:70:TYR:HA	2:O:100:LEU:HD23	1.75	0.66
3:P:233:LYS:CG	3:P:234:PRO:HD2	2.25	0.66
3:P:332:LYS:O	3:P:333:GLY:C	2.31	0.66
3:J:109:SER:HB2	3:J:296:LYS:CE	2.22	0.66
2:O:1109:ILE:HG23	2:O:1112:ILE:HD12	1.76	0.66
4:Q:48:VAL:HA	4:Q:51:LEU:HD12	1.77	0.66
6:7:54:DA:H2"	6:7:55:DC:H5'	1.78	0.66
1:B:106:GLY:HA2	1:B:136:GLU:HA	1.76	0.66
3:D:53:ARG:O	3:D:58:CYS:HB2	1.95	0.66
5:F:562:ARG:NE	5:F:573:LEU:HD13	2.10	0.66
1:G:35:PHE:C	1:G:39:LEU:HD12	2.14	0.66
1:G:44:ARG:HA	1:G:47:LEU:CD1	2.17	0.66
2:I:1004:ASP:OD2	2:I:1008:GLN:HG2	1.95	0.66
2:I:149:LEU:HD21	2:I:451:ARG:NH2	2.10	0.66
2:I:819:SER:HB2	2:I:1085:MET:SD	2.36	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:245:LEU:HD11	3:J:249:LEU:HD12	1.77	0.66
3:J:377:PHE:C	3:J:379:PRO:HD2	2.15	0.66
3:J:805:GLN:CB	3:J:1347:LEU:HD12	2.25	0.66
5:L:514:ASP:O	5:L:516:ASP:N	2.27	0.66
1:M:140:ILE:HG13	1:M:141:SER:N	2.11	0.66
1:M:59:VAL:HG12	1:M:171:LEU:HD12	1.78	0.66
3:P:1138:LEU:HB2	3:P:1139:PRO:HD3	1.77	0.66
3:P:923:ILE:O	3:P:926:PRO:HD2	1.95	0.66
2:C:878:THR:CG2	2:C:879:GLY:H	2.07	0.66
3:D:493:PRO:HA	3:D:904:ALA:HB2	1.78	0.66
3:D:415:VAL:HA	4:E:45:LYS:HZ1	1.59	0.66
3:J:492:SER:HB3	3:J:495:ASN:OD1	1.95	0.66
3:P:517:CYS:HB3	3:P:545:HIS:HB2	1.76	0.66
3:D:842:ARG:NH1	3:D:1254:GLU:OE2	2.27	0.66
2:I:701:GLY:O	2:I:1183:ALA:HA	1.96	0.66
3:J:1200:GLU:HG2	3:J:1201:GLY:H	1.60	0.66
3:J:1318:SER:OG	3:J:1321:SER:CB	2.43	0.66
1:M:59:VAL:HG22	1:M:144:ILE:HG23	1.77	0.66
2:O:674:ASP:O	3:P:772:TYR:OH	2.06	0.66
3:P:427:PRO:HB3	7:8:12:DG:H21	1.60	0.66
2:O:1104:PRO:HG3	3:P:725:MET:SD	2.36	0.66
2:O:375:PRO:HD3	5:R:87:VAL:HG11	1.78	0.66
6:4:44:DG:H2'	6:4:45:DT:O4'	1.95	0.66
4:E:46:THR:HA	4:E:49:ILE:HD12	1.77	0.66
1:G:150:ARG:NH2	1:H:32:GLU:OE1	2.27	0.66
2:I:1273:MET:HG3	7:5:13:DA:C4'	2.26	0.66
2:I:764:CYS:HB3	2:I:831:ILE:HB	1.78	0.66
3:J:269:TYR:O	3:J:273:ILE:HG13	1.94	0.66
2:O:257:ALA:HB3	2:O:262:TYR:CD2	2.30	0.66
3:P:932:MET:HE3	8:9:17:C:H2'	1.78	0.66
2:C:936:ARG:HB2	2:C:1047:LEU:O	1.96	0.66
2:C:798:GLN:NE2	2:C:827:ARG:HE	1.94	0.66
2:C:878:THR:HG23	2:C:925:SER:HB2	1.77	0.66
3:D:114:ILE:HG22	3:D:307:LEU:HD12	1.76	0.66
2:I:1005:GLU:HG2	2:I:1006:GLU:N	2.10	0.66
2:I:577:VAL:HG23	2:I:661:VAL:O	1.95	0.66
3:J:1282:TYR:O	3:J:1285:VAL:HG12	1.94	0.66
3:J:115:TRP:HH2	3:J:1329:THR:HA	1.59	0.66
2:O:1117:LEU:HD13	2:O:1195:ILE:HG12	1.77	0.66
2:C:796:LEU:O	2:C:1233:LEU:HD21	1.96	0.66
3:D:112:ALA:HA	3:D:238:ILE:HD13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:770:LEU:CD2	3:D:771:GLN:HG3	2.26	0.66
2:I:240:GLU:HG3	2:I:284:LEU:CD2	2.26	0.66
3:J:20:ILE:HD13	3:J:1320:ILE:CD1	2.26	0.66
2:I:1305:TYR:CE2	3:J:379:PRO:HB3	2.31	0.66
3:J:421:VAL:HG12	3:J:422:LEU:N	2.04	0.66
3:J:750:PRO:O	3:J:781:LYS:HE3	1.95	0.66
1:M:58:GLU:HB2	1:M:145:LYS:HB3	1.77	0.66
3:P:1040:MET:HE2	3:P:1046:ILE:HD13	1.78	0.66
5:R:597:LYS:O	5:R:600:HIS:HB2	1.96	0.66
2:C:557:ARG:HD3	2:C:587:LEU:HB2	1.77	0.66
3:D:583:VAL:O	3:D:583:VAL:CG1	2.44	0.66
5:F:511:ILE:HD13	5:F:519:LEU:CD1	2.14	0.66
2:I:1296:ASP:N	2:I:1296:ASP:OD1	2.27	0.66
2:I:757:THR:HG22	2:I:758:ARG:H	1.60	0.66
5:L:399:LEU:O	5:L:400:GLN:HB2	1.95	0.66
3:P:113:HIS:HA	3:P:239:LEU:HD11	1.78	0.66
3:P:1251:LYS:O	3:P:1255:VAL:HG23	1.94	0.66
3:P:955:LYS:HE3	3:P:1010:GLN:HB3	1.78	0.66
1:B:81:ILE:HG22	1:B:85:LEU:HD11	1.76	0.65
2:C:1172:LEU:HD12	2:C:1172:LEU:O	1.96	0.65
2:C:1326:LEU:HD22	3:D:342:LEU:HD11	1.78	0.65
3:D:826:ILE:HG12	3:D:831:VAL:HG22	1.77	0.65
2:I:949:GLU:OE2	2:I:1036:ILE:HG22	1.96	0.65
1:M:44:ARG:HG3	1:M:183:ILE:HG23	1.78	0.65
2:O:757:THR:HG22	2:O:758:ARG:H	1.61	0.65
5:R:364:ARG:HA	5:R:367:ILE:HD12	1.78	0.65
1:A:224:LEU:CD1	1:A:224:LEU:C	2.59	0.65
3:D:366:CYS:SG	3:D:439:PRO:HA	2.37	0.65
5:F:132:CYS:O	5:F:136:GLU:HG2	1.97	0.65
2:I:1292:THR:HG23	2:I:1293:VAL:H	1.60	0.65
2:I:163:LYS:HD3	2:I:171:LEU:HD12	1.78	0.65
3:P:492:SER:O	3:P:495:ASN:O	2.15	0.65
5:F:585:GLU:HG3	7:2:47:DC:H41	1.61	0.65
1:A:228:LEU:HD23	1:A:231:PHE:HE2	1.60	0.65
2:C:936:ARG:NH2	2:C:1046:VAL:O	2.29	0.65
2:C:1268:GLN:HE22	3:D:351:GLY:CA	2.08	0.65
3:D:555:TYR:CD2	3:D:563:LEU:HD22	2.31	0.65
3:D:771:GLN:O	3:D:774:ILE:HG13	1.96	0.65
3:D:797:THR:HA	3:D:800:LEU:HD12	1.78	0.65
1:M:9:LEU:CD2	1:M:198:LEU:CD2	2.74	0.65
5:R:152:GLU:HG2	5:R:162:ILE:HD11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:TYR:C	1:A:185:TYR:CD2	2.70	0.65
2:C:689:ALA:HB1	2:C:1233:LEU:HD22	1.79	0.65
3:D:499:ILE:HG23	3:D:500:ILE:HG13	1.78	0.65
5:F:437:GLN:OE1	7:2:27:DA:N6	2.30	0.65
3:D:262:THR:O	5:F:507:MET:CB	2.44	0.65
5:F:588:ARG:HE	7:2:46:DT:P	2.19	0.65
2:I:96:LEU:HB2	2:I:127:ILE:HD12	1.78	0.65
2:O:806:PRO:HG2	3:P:633:ALA:HA	1.77	0.65
3:P:1162:ILE:HG13	3:P:1180:VAL:HG12	1.79	0.65
5:R:463:LEU:HD23	5:R:463:LEU:N	2.10	0.65
2:C:10:ARG:HH22	2:C:697:LYS:HD3	1.58	0.65
3:D:437:PHE:O	3:D:439:PRO:HD3	1.96	0.65
5:F:468:ARG:NH2	7:2:25:DA:C8	2.64	0.65
1:H:28:LEU:C	1:H:28:LEU:HD13	2.16	0.65
2:I:1113:LEU:HD23	3:J:641:ILE:HD11	1.76	0.65
2:I:575:LEU:CD1	2:I:579:ALA:HB3	2.25	0.65
3:J:1103:GLY:O	3:J:1104:LYS:HB2	1.97	0.65
3:J:1165:PHE:HZ	3:J:1196:LEU:HD13	1.60	0.65
3:J:489:ASN:O	3:J:500:ILE:HD11	1.96	0.65
1:M:41:ASN:HD21	2:O:1218:GLY:CA	2.09	0.65
1:B:44:ARG:HH12	3:D:538:ARG:CB	2.05	0.65
3:D:883:ARG:NE	3:D:898:CYS:SG	2.69	0.65
2:I:1101:LEU:HD11	3:J:508:LEU:CD2	2.26	0.65
2:I:257:ALA:HB1	2:I:282:VAL:HG21	1.78	0.65
3:J:1145:PHE:O	3:J:1309:ILE:HG13	1.97	0.65
3:J:509:GLY:O	3:J:513:MET:HG3	1.97	0.65
2:O:1100:PRO:HB3	3:P:639:VAL:HG23	1.77	0.65
3:P:767:LEU:HD12	3:P:772:TYR:CD1	2.29	0.65
5:R:353:LEU:HB3	5:R:358:VAL:HG23	1.78	0.65
6:1:26:DT:O4	7:2:36:DG:O6	2.14	0.65
2:C:1104:PRO:CG	2:C:1105:SER:H	2.07	0.65
2:C:452:ARG:HG2	2:C:453:ILE:N	2.11	0.65
2:C:626:GLU:CG	2:C:626:GLU:O	2.44	0.65
5:F:295:CYS:O	5:F:296:LYS:CB	2.43	0.65
2:I:255:ILE:HG23	2:I:285:ILE:HG21	1.78	0.65
2:I:521:LEU:HD21	2:I:687:ARG:HG2	1.79	0.65
2:I:788:SER:O	2:I:794:LEU:HD12	1.96	0.65
5:L:97:PRO:HA	5:L:100:MET:HG3	1.78	0.65
5:L:93:ARG:HG3	5:L:93:ARG:O	1.96	0.65
2:O:1275:VAL:HG21	3:P:343:LEU:O	1.97	0.65
2:O:902:LEU:HA	2:O:905:ILE:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:394:ARG:HB3	2:C:394:ARG:CZ	2.26	0.65
2:C:452:ARG:NH2	2:C:458:GLU:CD	2.50	0.65
1:B:44:ARG:NH1	3:D:538:ARG:HB3	2.05	0.65
3:D:955:LYS:CD	3:D:955:LYS:NZ	2.59	0.65
1:H:61:ILE:HD11	1:H:171:LEU:HD12	1.77	0.65
1:H:40:GLY:HA2	1:H:43:LEU:HD12	1.78	0.65
2:I:209:ILE:HG23	2:I:210:LEU:N	2.11	0.65
3:J:1233:ILE:HG22	3:J:1237:VAL:HG21	1.79	0.65
3:J:245:LEU:HD11	3:J:249:LEU:CD1	2.27	0.65
1:N:99:ILE:HD11	1:N:170:ARG:NH2	2.11	0.65
2:O:1269:ARG:NH1	3:P:340:GLN:HG3	2.12	0.65
2:O:13:LYS:HB2	2:O:1149:TYR:CE1	2.31	0.65
2:O:1104:PRO:HG3	3:P:725:MET:HE3	1.78	0.65
1:B:83:LEU:HB3	3:D:528:THR:HG22	1.79	0.65
3:D:725:MET:HE1	3:D:731:ARG:HB3	1.79	0.65
5:F:574:GLU:O	5:F:578:LYS:HG3	1.97	0.65
1:H:85:LEU:N	1:H:85:LEU:HD23	2.10	0.65
2:I:80:PHE:O	2:I:92:TYR:HE1	1.80	0.65
3:J:1131:THR:O	3:J:1132:LYS:HB3	1.96	0.65
3:J:121:PRO:O	3:J:122:SER:HB3	1.97	0.65
2:O:257:ALA:HB3	2:O:262:TYR:HD2	1.61	0.65
2:O:936:ARG:HG2	2:O:937:ASP:N	2.12	0.65
3:P:47:ARG:HH12	5:R:496:LYS:HD3	1.61	0.65
3:P:826:ILE:HA	3:P:831:VAL:HA	1.77	0.65
3:D:814:CYS:SG	3:D:883:ARG:NH2	2.70	0.65
1:G:106:GLY:CA	1:G:136:GLU:HA	2.22	0.65
3:J:1198:VAL:HG22	3:J:1210:ILE:HG23	1.79	0.65
3:J:620:PHE:O	3:J:624:ILE:HG12	1.96	0.65
5:L:583:THR:CG2	5:L:586:ARG:HB3	2.27	0.65
2:O:34:SER:OG	2:O:457:GLY:N	2.29	0.65
3:P:1075:ARG:HG3	3:P:1192:LYS:HB3	1.78	0.65
4:Q:80:LEU:HD23	4:Q:83:VAL:HB	1.77	0.65
3:D:1123:ARG:O	3:D:1125:PRO:HD3	1.96	0.64
3:D:97:VAL:CG1	3:D:101:ARG:HG3	2.27	0.64
1:G:228:LEU:HD12	1:H:228:LEU:CD1	2.22	0.64
2:I:434:ASP:O	2:I:439:LYS:HB2	1.97	0.64
3:J:806:ASP:OD1	3:J:806:ASP:N	2.30	0.64
5:L:385:ARG:HA	5:L:388:ILE:CG2	2.27	0.64
1:N:190:ALA:HB2	1:N:200:LYS:CG	2.27	0.64
1:B:61:ILE:HD13	1:B:171:LEU:CD1	2.28	0.64
3:D:1224:ARG:HD3	3:D:1228:ALA:HB1	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:367:GLY:O	3:D:447:ILE:HG22	1.97	0.64
2:C:1217:THR:HG21	3:D:634:ARG:NH1	2.12	0.64
1:G:58:GLU:HB2	1:G:145:LYS:CB	2.27	0.64
3:J:721:SER:O	3:J:725:MET:HG3	1.97	0.64
2:O:1042:LEU:CD2	2:O:1049:ILE:HD11	2.24	0.64
2:O:333:ILE:HG22	2:O:334:GLU:H	1.62	0.64
3:P:496:GLY:HA2	3:P:903:LEU:HD22	1.78	0.64
7:2:20:DG:H2"	7:2:21:DG:C8	2.32	0.64
3:D:869:CYS:CA	3:D:872:LEU:HD12	2.15	0.64
5:F:407:GLU:HG2	5:F:442:SER:OG	1.98	0.64
2:I:1278:LEU:HD12	2:I:1287:LEU:HD13	1.80	0.64
3:J:342:LEU:HD22	3:J:1352:ILE:HG23	1.78	0.64
3:J:796:LEU:HG	3:J:797:THR:N	2.12	0.64
3:J:826:ILE:HD13	3:J:831:VAL:HG22	1.78	0.64
2:O:9:LYS:HE2	2:O:1171:ARG:HH11	1.63	0.64
1:A:11:PRO:O	1:B:231:PHE:HZ	1.80	0.64
1:A:43:LEU:O	1:A:47:LEU:HD12	1.97	0.64
1:B:67:GLU:HA	1:B:78:ILE:HG21	1.79	0.64
2:C:191:LYS:HD2	2:C:191:LYS:N	2.11	0.64
2:C:389:PHE:HB3	2:C:420:LEU:HD12	1.77	0.64
3:D:1266:ILE:HD13	3:D:1274:PHE:CD1	2.32	0.64
3:D:151:MET:HB3	3:D:153:ASN:ND2	2.12	0.64
2:I:517:GLN:H	2:I:761:GLN:NE2	1.96	0.64
3:J:1280:VAL:CG1	3:J:1281:GLU:N	2.61	0.64
1:M:47:LEU:O	1:M:51:MET:CG	2.45	0.64
2:O:247:ARG:HG3	2:O:274:ILE:CD1	2.21	0.64
3:P:338:PHE:CD1	3:P:1324:SER:HA	2.33	0.64
2:C:98:VAL:HB	2:C:124:MET:SD	2.38	0.64
2:C:1273:MET:HE3	7:2:13:DA:H5"	1.78	0.64
2:C:285:ILE:HG22	2:C:286:GLU:N	2.12	0.64
2:C:157:PHE:O	2:C:442:VAL:CG1	2.44	0.64
2:C:82:VAL:HG23	2:C:83:GLN:H	1.61	0.64
3:D:742:GLY:O	3:D:762:ASN:HB3	1.97	0.64
3:D:966:VAL:HG11	3:D:1030:GLU:HG2	1.80	0.64
1:G:225:ALA:HA	1:G:228:LEU:CD1	2.27	0.64
1:G:67:GLU:O	1:G:78:ILE:HB	1.97	0.64
1:H:30:PRO:HG3	1:H:192:VAL:HG23	1.78	0.64
2:I:185:ASP:HB2	2:I:197:ARG:HB2	1.78	0.64
3:P:111:THR:O	3:P:239:LEU:HG	1.96	0.64
2:C:1104:PRO:CG	2:C:1105:SER:N	2.60	0.64
3:D:1229:VAL:HG22	3:D:1233:ILE:HD11	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:489:MET:HB3	5:F:490:PRO:HD2	1.79	0.64
5:F:585:GLU:HG3	7:2:47:DC:N4	2.12	0.64
2:I:313:ALA:O	2:I:314:ASN:CB	2.45	0.64
3:J:972:LYS:HD3	3:J:1002:VAL:HG11	1.78	0.64
5:L:507:MET:CA	5:L:519:LEU:HD23	2.16	0.64
2:O:1307:ASN:HB3	2:O:1312:ASN:HB3	1.78	0.64
2:O:709:ALA:O	2:O:712:SER:OG	2.15	0.64
3:P:421:VAL:CG2	3:P:439:PRO:HG2	2.27	0.64
2:C:1020:GLU:O	2:C:1024:GLU:HB3	1.98	0.64
2:I:1278:LEU:HB2	2:I:1287:LEU:HD22	1.79	0.64
2:I:251:ALA:HB3	2:I:266:GLY:H	1.61	0.64
2:I:538:LEU:N	2:I:538:LEU:HD23	2.13	0.64
2:I:632:ASP:HB2	2:I:633:LEU:HD12	1.79	0.64
3:J:268:LEU:CB	3:J:306:LEU:HD13	2.27	0.64
2:O:448:LEU:N	2:O:448:LEU:HD23	2.12	0.64
2:O:589:THR:HG22	2:O:590:PRO:HD2	1.78	0.64
2:O:671:LEU:HD11	2:O:679:ALA:CB	2.26	0.64
2:O:758:ARG:HB2	2:O:833:ILE:CG2	2.27	0.64
3:P:322:ARG:HB2	3:P:323:PRO:CD	2.21	0.64
5:R:548:LEU:HD23	5:R:551:LEU:CD1	2.28	0.64
1:A:221:ALA:O	1:A:224:LEU:CD2	2.46	0.64
1:A:45:ARG:CD	1:B:38:THR:OG1	2.28	0.64
2:C:1120:ALA:HB1	2:C:1198:LEU:HG	1.79	0.64
2:C:539:THR:HG22	2:C:540:ARG:H	1.60	0.64
2:C:575:LEU:HG	2:C:576:SER:O	1.97	0.64
3:J:1081:VAL:HB	3:J:1085:GLY:O	1.98	0.64
3:J:553:THR:CG2	3:J:566:LYS:O	2.46	0.64
1:N:11:PRO:HB3	1:N:30:PRO:O	1.98	0.64
2:O:901:LEU:HD13	5:R:563:PHE:CZ	2.33	0.64
3:P:1212:ASP:OD1	3:P:1212:ASP:N	2.20	0.64
1:B:133:LEU:CD2	1:B:138:ALA:HB1	2.26	0.64
3:D:1284:ARG:HA	3:D:1287:ILE:HD12	1.78	0.64
2:I:1073:LYS:HD2	3:J:462:ASP:HB2	1.79	0.64
3:J:1250:ASP:OD1	3:J:1250:ASP:N	2.31	0.64
3:J:349:TYR:CD2	3:J:472:LEU:HD11	2.33	0.64
2:O:1081:PRO:CB	2:O:1083:GLU:OE1	2.45	0.64
3:P:803:VAL:HG12	3:P:1259:GLN:HB3	1.80	0.64
3:D:795:TYR:CD1	7:2:11:DA:H5'	2.33	0.64
1:B:61:ILE:HA	1:B:142:MET:HB2	1.80	0.64
3:D:1062:LEU:HD22	3:D:1066:GLU:CD	2.19	0.64
1:H:68:TYR:CD1	1:H:79:LEU:CD2	2.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:184:LEU:HD11	2:I:389:PHE:HE2	1.63	0.64
2:I:944:ARG:O	2:I:948:ILE:HG13	1.98	0.64
3:J:234:PRO:O	3:J:237:MET:HG2	1.98	0.64
3:J:369:PRO:HB2	3:J:372:MET:HE3	1.80	0.64
3:J:95:THR:O	3:J:98:ARG:HG3	1.97	0.64
2:O:209:ILE:HG23	2:O:210:LEU:HG	1.80	0.64
2:O:496:LYS:HB2	2:O:497:PRO:CD	2.15	0.64
3:P:256:ASP:OD1	3:P:256:ASP:N	2.28	0.64
2:C:1161:LEU:HD12	2:C:1164:PHE:HB2	1.80	0.63
2:C:1105:SER:HG	3:D:731:ARG:HH11	1.43	0.63
3:D:749:LYS:CB	3:D:750:PRO:CD	2.57	0.63
2:I:1258:PRO:HG2	3:J:346:ARG:HB2	1.80	0.63
2:I:615:VAL:HG22	2:I:638:SER:CB	2.27	0.63
3:P:762:ASN:HD21	3:P:764:ARG:HB3	1.64	0.63
5:R:401:PHE:HZ	6:7:45:DT:H1'	1.63	0.63
2:C:1129:ASN:OD1	2:C:1133:LYS:HE3	1.98	0.63
1:H:61:ILE:N	1:H:61:ILE:HD12	2.13	0.63
2:I:1113:LEU:HD22	2:I:1195:ILE:CD1	2.28	0.63
3:J:872:LEU:HD22	3:J:873:GLU:CA	2.27	0.63
5:L:585:GLU:HG3	7:5:47:DC:H41	1.61	0.63
2:O:716:ALA:HB3	2:O:784:ALA:HB3	1.80	0.63
5:R:119:ILE:O	5:R:123:ILE:HG13	1.99	0.63
1:B:60:GLU:O	1:B:142:MET:HB2	1.99	0.63
2:C:137:VAL:C	2:C:138:ILE:HD13	2.18	0.63
2:C:1313:HIS:CE1	3:D:380:PHE:CE1	2.86	0.63
3:D:385:LEU:HD22	3:D:391:ALA:CB	2.28	0.63
5:F:451:ARG:HG3	5:F:451:ARG:O	1.98	0.63
2:I:709:ALA:O	2:I:712:SER:OG	2.15	0.63
1:M:235:ARG:C	1:N:218:ARG:HH21	2.02	0.63
3:P:139:LEU:HD23	3:P:181:GLY:C	2.17	0.63
1:B:217:ILE:HD13	1:B:217:ILE:H	1.62	0.63
2:C:708:VAL:HG11	2:C:794:LEU:HD22	1.79	0.63
3:D:1224:ARG:HD2	3:D:1228:ALA:HB1	1.80	0.63
3:D:378:LYS:HZ2	5:F:532:LEU:HD11	1.64	0.63
2:I:1081:PRO:HB2	2:I:1083:GLU:OE1	1.98	0.63
2:I:1116:HIS:HD2	3:J:641:ILE:HD11	1.60	0.63
2:I:663:VAL:O	2:I:666:SER:OG	2.16	0.63
3:J:352:ARG:O	3:J:353:SER:HB2	1.96	0.63
3:J:580:TRP:CZ3	3:J:583:VAL:HG11	2.33	0.63
3:J:665:GLN:O	3:J:668:PHE:HB3	1.98	0.63
5:L:583:THR:HG21	5:L:586:ARG:CB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:432:LEU:HG	2:O:433:ILE:N	2.10	0.63
3:P:1230:THR:HG23	3:P:1257:VAL:HG11	1.81	0.63
3:P:371:LYS:O	3:P:374:LEU:CD2	2.46	0.63
3:P:437:PHE:O	3:P:439:PRO:HD3	1.98	0.63
3:P:513:MET:SD	3:P:579:LEU:HD21	2.37	0.63
5:R:401:PHE:CZ	6:7:45:DT:H1'	2.33	0.63
2:C:1327:LEU:HA	2:C:1330:ILE:HD12	1.79	0.63
2:C:753:LEU:CD1	2:C:769:PRO:HG3	2.29	0.63
3:D:706:VAL:CG1	3:D:713:GLU:OE1	2.46	0.63
2:I:1332:SER:OG	3:J:245:LEU:HB2	1.98	0.63
2:I:1280:ALA:HB3	3:J:431:ARG:CB	2.27	0.63
3:P:251:PRO:O	5:R:507:MET:HE3	1.99	0.63
3:P:368:LEU:HD21	3:P:373:ALA:CB	2.23	0.63
4:Q:54:ILE:HG12	4:Q:59:ILE:HB	1.79	0.63
6:1:19:DA:C2	7:2:45:DG:C2	2.85	0.63
7:8:29:DC:H2"	7:8:30:DA:C8	2.34	0.63
2:C:204:LEU:HB3	2:C:205:PRO:HD2	1.80	0.63
2:C:724:VAL:HG23	2:C:775:GLU:O	1.99	0.63
3:D:714:GLU:O	3:D:715:LYS:HB2	1.97	0.63
3:D:744:ARG:HB3	3:D:759:ILE:HG21	1.79	0.63
5:F:130:VAL:HG13	5:F:365:MET:CG	2.27	0.63
2:I:1186:VAL:O	2:I:1187:PHE:HB2	1.98	0.63
2:I:1272:GLU:O	2:I:1275:VAL:HB	1.98	0.63
2:I:237:LEU:HD13	2:I:292:ILE:HD12	1.80	0.63
3:J:1170:LYS:O	3:J:1192:LYS:HE3	1.98	0.63
2:I:1325:VAL:HG13	3:J:249:LEU:HD22	1.81	0.63
1:M:38:THR:HG22	1:N:42:ALA:HA	1.81	0.63
2:O:208:ILE:HD11	2:O:362:ALA:O	1.98	0.63
2:O:805:MET:HB2	2:O:806:PRO:HD2	1.81	0.63
2:O:811:ASN:HD22	2:O:1099:ASN:HA	1.62	0.63
3:P:424:ASN:HB2	3:P:434:ILE:HG12	1.81	0.63
3:P:518:VAL:O	3:P:520:ALA:N	2.32	0.63
3:D:1230:THR:O	3:D:1234:VAL:HG23	1.99	0.63
3:D:888:CYS:SG	9:D:1502:ZN:ZN	1.87	0.63
2:I:473:ARG:O	2:I:477:GLU:HB2	1.98	0.63
3:J:355:ILE:HD13	3:J:464:ASP:HB2	1.80	0.63
2:I:1286:THR:CB	3:J:479:GLU:OE2	2.46	0.63
1:M:13:LEU:HA	1:M:28:LEU:HD22	1.81	0.63
2:O:868:SER:HB2	2:O:870:ILE:HG12	1.80	0.63
1:B:91:ARG:HH12	1:B:210:THR:CG2	2.11	0.63
2:C:17:LYS:NZ	2:C:1190:ALA:HA	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:82:VAL:CG2	2:C:83:GLN:H	2.11	0.63
3:D:142:GLU:OE2	5:F:91:ILE:HG21	1.97	0.63
3:D:40:LYS:NZ	3:D:53:ARG:HE	1.97	0.63
5:F:449:THR:CB	5:F:504:PRO:HG3	2.28	0.63
1:N:99:ILE:HD11	1:N:170:ARG:HH22	1.61	0.63
3:P:421:VAL:HG12	3:P:422:LEU:H	1.64	0.63
1:A:184:ALA:HB2	2:C:1091:GLY:CA	2.29	0.63
1:A:231:PHE:N	1:A:231:PHE:CD1	2.60	0.63
2:C:870:ILE:HG22	2:C:871:VAL:O	1.99	0.63
5:F:309:ASN:OD1	5:F:312:SER:HB3	1.98	0.63
1:H:190:ALA:N	1:H:199:ASP:HA	2.05	0.63
2:I:1184:THR:O	2:I:1184:THR:HG23	1.98	0.63
2:I:718:ALA:HB2	2:I:783:LEU:HD21	1.81	0.63
3:J:1169:THR:O	3:J:1170:LYS:HB2	1.97	0.63
3:J:1169:THR:O	3:J:1172:LYS:HB2	1.98	0.63
3:J:115:TRP:HH2	3:J:1332:LEU:HD12	1.64	0.63
2:O:598:VAL:HG13	2:O:627:GLY:O	1.99	0.63
2:O:663:VAL:O	2:O:666:SER:OG	2.16	0.63
2:O:1281:TYR:OH	3:P:431:ARG:O	2.15	0.63
3:P:690:ASN:HA	3:P:743:MET:CE	2.29	0.63
5:R:594:ALA:O	5:R:598:LEU:HG	1.98	0.63
2:C:1273:MET:HG3	7:2:13:DA:H4'	1.81	0.62
1:A:224:LEU:O	1:A:224:LEU:HD12	1.98	0.62
3:D:1062:LEU:HB3	3:D:1066:GLU:HB2	1.79	0.62
3:D:1206:ARG:NH2	3:D:1223:LEU:O	2.32	0.62
3:D:1226:VAL:CG1	3:D:1227:HIS:N	2.61	0.62
1:H:154:PRO:HG2	1:H:157:THR:OG1	1.98	0.62
2:I:1104:PRO:HG3	3:J:725:MET:HE1	1.80	0.62
3:J:736:GLN:O	3:J:740:LEU:HG	1.98	0.62
3:P:1243:LEU:HD22	3:P:1244:GLN:NE2	2.14	0.62
3:P:421:VAL:HG13	3:P:469:HIS:O	1.99	0.62
3:P:497:GLU:HB3	3:P:498:PRO:HD2	1.80	0.62
4:Q:10:VAL:HG22	4:Q:19:LEU:HD22	1.79	0.62
5:F:588:ARG:NE	7:2:46:DT:OP2	2.32	0.62
2:C:796:LEU:CB	2:C:1233:LEU:HD11	2.29	0.62
2:C:759:SER:CB	2:C:763:THR:HG1	2.12	0.62
5:F:385:ARG:O	5:F:388:ILE:CG2	2.47	0.62
2:I:678:ARG:CZ	2:I:1106:ARG:HB3	2.29	0.62
2:I:296:VAL:HG12	2:I:297:VAL:N	2.14	0.62
2:I:764:CYS:CB	2:I:831:ILE:HB	2.28	0.62
3:J:930:LEU:CB	3:J:1134:ILE:HD12	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:872:LEU:HD22	3:J:873:GLU:HA	1.80	0.62
3:J:885:VAL:HG12	3:J:886:VAL:CG2	2.29	0.62
1:N:99:ILE:HD13	1:N:143:ARG:HB3	1.80	0.62
2:O:83:GLN:O	2:O:86:GLN:HB2	1.99	0.62
3:P:109:SER:CB	3:P:296:LYS:HZ3	2.12	0.62
3:P:262:THR:CA	5:R:507:MET:HE3	2.11	0.62
5:R:587:ILE:N	5:R:587:ILE:CD1	2.50	0.62
1:A:179:PRO:HA	1:A:208:ASN:HD21	1.64	0.62
2:C:524:ILE:HD11	2:C:712:SER:CB	2.10	0.62
3:D:646:ILE:HG13	3:D:764:ARG:HH11	1.64	0.62
2:I:1212:LEU:O	2:I:1221:PHE:HD2	1.81	0.62
2:I:15:PHE:HB3	2:I:17:LYS:HZ1	1.64	0.62
2:I:227:LYS:NZ	2:I:298:ALA:HB1	2.13	0.62
5:L:409:ASN:O	5:L:412:LEU:HB3	2.00	0.62
1:M:88:LEU:HD12	1:M:89:ALA:H	1.64	0.62
2:O:581:THR:HG22	2:O:587:LEU:HD23	1.79	0.62
1:M:83:LEU:HD11	2:O:694:ARG:HH11	1.63	0.62
1:B:213:PRO:O	1:B:217:ILE:CD1	2.47	0.62
2:C:1100:PRO:HB3	3:D:639:VAL:CG2	2.28	0.62
5:F:461:ASN:HA	7:2:26:DT:C7	2.29	0.62
2:I:1113:LEU:HD22	2:I:1195:ILE:HD13	1.81	0.62
2:I:448:LEU:HG	2:I:553:THR:HB	1.82	0.62
2:I:807:TRP:CG	2:I:817:LEU:HD11	2.35	0.62
3:J:1106:ILE:O	3:J:1106:ILE:HG22	1.97	0.62
4:K:13:ILE:HG22	4:K:19:LEU:HD22	1.82	0.62
1:N:92:VAL:HG22	1:N:121:VAL:HG13	1.81	0.62
3:P:846:GLU:H	3:P:860:ARG:HG2	1.63	0.62
2:C:149:LEU:HD21	2:C:451:ARG:HE	1.65	0.62
2:C:757:THR:HG22	2:C:758:ARG:N	2.15	0.62
3:D:474:LEU:HD21	4:E:31:GLN:NE2	2.15	0.62
3:D:653:ILE:HD13	3:D:693:VAL:HG22	1.82	0.62
3:D:809:VAL:HG23	3:D:915:ILE:HD11	1.81	0.62
3:D:839:VAL:O	3:D:839:VAL:HG12	1.99	0.62
1:G:39:LEU:O	1:G:43:LEU:CD1	2.46	0.62
3:J:1241:TYR:CD2	3:J:1241:TYR:N	2.65	0.62
3:J:307:LEU:HD23	3:J:327:LEU:HD13	1.81	0.62
3:J:495:ASN:C	3:J:903:LEU:HD13	2.20	0.62
2:O:1184:THR:O	2:O:1184:THR:HG23	1.99	0.62
2:O:333:ILE:HG22	2:O:334:GLU:N	2.13	0.62
2:O:661:VAL:HG12	2:O:665:ALA:HB3	1.82	0.62
3:P:1163:VAL:HG11	3:P:1175:LEU:CD2	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:183:TRP:CZ3	6:7:49:DG:O6	2.53	0.62
1:B:158:ARG:HH21	1:B:175:ALA:HB3	1.65	0.62
1:A:38:THR:HG22	1:B:42:ALA:HB1	1.81	0.62
2:C:663:VAL:O	2:C:666:SER:OG	2.16	0.62
3:D:744:ARG:CB	3:D:759:ILE:HG21	2.30	0.62
5:F:92:GLY:O	5:F:93:ARG:HG2	1.98	0.62
1:H:190:ALA:HB2	1:H:199:ASP:C	2.20	0.62
2:I:1235:LEU:HD23	2:I:1235:LEU:N	2.14	0.62
1:N:61:ILE:HD12	1:N:64:VAL:CG1	2.29	0.62
2:O:990:ASP:O	2:O:994:ARG:NH2	2.32	0.62
3:P:139:LEU:HD21	3:P:185:ILE:HD12	1.80	0.62
3:P:15:GLU:CG	3:P:15:GLU:O	2.47	0.62
3:P:576:ARG:HB3	3:P:592:VAL:HG23	1.81	0.62
3:P:661:VAL:HG22	3:P:685:ILE:HD13	1.80	0.62
2:C:1326:LEU:O	2:C:1330:ILE:HG13	1.99	0.62
2:C:946:LEU:HD11	2:C:950:GLU:OE1	1.99	0.62
3:D:1280:VAL:CG1	3:D:1281:GLU:H	2.12	0.62
2:C:1284:ALA:HB1	3:D:1356:LEU:HD22	1.82	0.62
3:D:275:ARG:HD3	3:D:298:MET:HB3	1.80	0.62
2:C:1294:LYS:HD3	3:D:347:VAL:CG1	2.29	0.62
3:D:492:SER:OG	3:D:495:ASN:OD1	2.07	0.62
3:D:880:VAL:HG12	3:D:882:VAL:HG12	1.80	0.62
1:H:221:ALA:O	1:H:224:LEU:HD23	2.00	0.62
2:I:1061:GLN:HB2	2:I:1062:PRO:CD	2.28	0.62
2:I:806:PRO:HA	2:I:811:ASN:HD21	1.65	0.62
3:J:1261:LEU:HD13	3:J:1304:ARG:HD2	1.80	0.62
3:J:363:LEU:CD2	3:J:487:THR:HG22	2.29	0.62
3:J:958:ILE:HG23	3:J:982:LEU:HD11	1.81	0.62
5:L:123:ILE:CD1	5:L:376:LYS:HE3	2.23	0.62
5:L:489:MET:SD	5:L:494:ILE:CD1	2.88	0.62
2:O:1309:VAL:HG13	3:P:383:GLY:HA2	1.81	0.62
2:O:292:ILE:CG2	2:O:322:LEU:HD11	2.28	0.62
2:O:812:PHE:CD2	2:O:813:GLU:HG3	2.33	0.62
3:P:1360:GLY:HA2	4:Q:17:PHE:CD2	2.35	0.62
3:P:259:ARG:HH11	5:R:502:LYS:CG	2.12	0.62
3:P:506:VAL:O	3:P:510:LEU:HG	1.99	0.62
7:5:23:DT:H3'	7:5:24:DT:H5''	1.81	0.62
6:7:47:DC:O5'	6:7:48:DA:OP2	2.18	0.62
7:8:23:DT:H5'	7:8:24:DT:OP2	1.99	0.62
2:C:92:TYR:HB2	2:C:137:VAL:HG21	1.80	0.62
1:G:190:ALA:N	1:G:199:ASP:HA	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:106:GLY:O	1:H:133:LEU:HB3	1.99	0.62
2:I:1212:LEU:CD1	2:I:1225:VAL:HB	2.30	0.62
2:I:433:ILE:HG22	2:I:437:ASN:HD21	1.64	0.62
5:L:128:ASN:ND2	5:L:257:LYS:HD3	2.15	0.62
2:O:1292:THR:HG23	2:O:1293:VAL:N	2.12	0.62
2:O:147:SER:HB2	2:O:530:ILE:HG23	1.82	0.62
1:B:38:THR:CB	1:B:39:LEU:HD23	2.27	0.62
2:C:156:PHE:O	2:C:174:ALA:HA	1.98	0.62
2:C:670:PHE:HD2	2:C:1113:LEU:HB2	1.56	0.62
3:D:215:LYS:O	3:D:219:LYS:HG3	2.00	0.62
3:D:405:GLU:O	3:D:408:VAL:HB	2.00	0.62
1:H:101:THR:HG22	1:H:143:ARG:HG2	1.82	0.62
2:I:255:ILE:CB	2:I:255:ILE:CD1	2.74	0.62
5:L:506:SER:O	5:L:519:LEU:HD22	1.99	0.62
2:O:575:LEU:HG	2:O:576:SER:O	2.00	0.62
2:O:758:ARG:HG3	2:O:833:ILE:O	2.00	0.62
3:P:492:SER:OG	3:P:495:ASN:N	2.32	0.62
2:C:524:ILE:HG12	2:C:712:SER:HA	1.81	0.62
2:C:971:LEU:HD11	2:C:1014:LEU:HD13	1.82	0.62
3:D:1348:LYS:O	3:D:1351:VAL:HB	1.99	0.62
1:G:104:LYS:HE3	1:G:114:ASP:OD2	2.00	0.62
2:I:661:VAL:HG12	2:I:662:SER:O	1.99	0.62
3:J:352:ARG:CD	7:5:15:DT:H4'	2.30	0.62
3:J:560:ASN:N	3:J:560:ASN:OD1	2.32	0.62
1:N:71:LYS:HD3	1:N:140:ILE:CD1	2.30	0.62
3:P:898:CYS:SG	9:P:1502:ZN:ZN	1.87	0.62
3:P:97:VAL:CG1	3:P:101:ARG:HG3	2.29	0.62
6:4:48:DA:C2'	6:4:49:DG:H5''	2.28	0.61
2:C:1104:PRO:HG3	3:D:725:MET:SD	2.40	0.61
2:C:436:ARG:NH1	2:C:436:ARG:O	2.22	0.61
2:C:764:CYS:CB	2:C:831:ILE:HB	2.30	0.61
3:D:261:ALA:HA	5:F:505:ILE:O	2.00	0.61
3:D:41:PRO:HA	3:D:273:ILE:HD12	1.81	0.61
3:D:771:GLN:HA	3:D:774:ILE:CD1	2.29	0.61
1:G:228:LEU:HD11	1:H:228:LEU:HD11	1.81	0.61
2:I:1104:PRO:HG3	3:J:725:MET:CE	2.30	0.61
3:J:822:MET:HG2	3:J:838:ARG:NH2	2.13	0.61
1:M:29:GLU:HB2	1:M:30:PRO:HA	1.82	0.61
2:O:188:PHE:CE2	2:O:432:LEU:HD11	2.35	0.61
2:O:599:VAL:HG21	2:O:623:LEU:HD21	1.81	0.61
2:O:528:ARG:NH1	2:O:663:VAL:HB	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:720:ARG:HD2	2:O:736:VAL:HG21	1.82	0.61
2:O:82:VAL:HG23	2:O:83:GLN:N	2.15	0.61
2:O:1261:GLY:HA3	7:8:16:DC:P	2.40	0.61
1:B:44:ARG:O	1:B:47:LEU:HB2	2.00	0.61
2:C:1198:LEU:O	2:C:1198:LEU:HD12	1.98	0.61
2:C:764:CYS:SG	2:C:831:ILE:HD12	2.40	0.61
3:J:826:ILE:CD1	3:J:831:VAL:HG22	2.30	0.61
3:J:1360:GLY:HA2	4:K:17:PHE:CD2	2.35	0.61
1:M:28:LEU:HD11	1:N:231:PHE:CE1	2.35	0.61
2:O:1061:GLN:HB2	2:O:1062:PRO:HD2	1.82	0.61
3:P:1075:ARG:HG3	3:P:1192:LYS:CD	2.28	0.61
3:P:322:ARG:NH1	3:P:322:ARG:HG3	2.14	0.61
3:P:615:LYS:HE2	4:Q:5:THR:HB	1.82	0.61
5:F:468:ARG:NH2	7:2:25:DA:H8	1.97	0.61
2:C:1274:GLU:N	2:C:1274:GLU:OE1	2.27	0.61
2:C:525:THR:HG23	2:C:526:HIS:N	2.15	0.61
2:C:809:GLY:CA	3:D:629:PHE:CD1	2.83	0.61
3:D:1101:LEU:HD22	3:D:1122:ALA:CB	2.28	0.61
3:D:807:LEU:CD1	3:D:1259:GLN:HE21	2.14	0.61
4:E:22:VAL:HG11	4:E:61:ASN:HA	1.82	0.61
5:F:423:ARG:HD3	6:1:37:DA:N1	2.15	0.61
1:G:102:LEU:HD12	1:G:103:ASN:H	1.64	0.61
1:G:112:ALA:HB3	1:G:126:PRO:CA	2.29	0.61
2:I:525:THR:HG21	2:I:687:ARG:CD	2.30	0.61
2:I:837:ALA:O	2:I:918:LEU:HD22	1.99	0.61
2:I:878:THR:CG2	2:I:879:GLY:H	2.12	0.61
2:I:1315:MET:CE	3:J:473:THR:HG21	2.29	0.61
3:J:522:GLY:CA	3:J:525:MET:SD	2.88	0.61
2:O:599:VAL:CG2	2:O:623:LEU:HD21	2.31	0.61
2:O:967:LEU:O	2:O:971:LEU:HB2	1.99	0.61
3:P:140:TYR:O	3:P:141:PHE:HB2	2.00	0.61
2:I:541:GLU:OE1	6:4:52:DT:C4	2.53	0.61
2:C:395:TYR:CE2	2:C:420:LEU:HD21	2.35	0.61
2:C:76:GLY:HA3	2:C:95:PRO:HG2	1.82	0.61
3:D:1103:GLY:O	3:D:1104:LYS:HB2	2.00	0.61
1:H:28:LEU:HD13	1:H:29:GLU:N	2.15	0.61
2:I:845:LEU:O	2:I:889:PRO:HB2	2.01	0.61
3:J:27:PRO:HA	3:J:30:ILE:HD12	1.82	0.61
1:M:115:ILE:H	1:M:115:ILE:HD12	1.65	0.61
2:O:796:LEU:C	2:O:1233:LEU:HD21	2.21	0.61
2:O:896:THR:CG2	2:O:898:GLU:HB2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:41:GLU:HA	4:Q:49:ILE:HD11	1.80	0.61
5:R:583:THR:HG21	5:R:586:ARG:HB3	1.81	0.61
3:D:271:ARG:HA	3:D:274:ASN:HD22	1.65	0.61
1:G:211:ILE:HD12	1:G:219:ARG:NH1	2.15	0.61
2:I:799:ASN:O	2:I:800:MET:HE3	2.01	0.61
3:J:1080:ILE:CD1	3:J:1115:ILE:HD11	2.30	0.61
3:J:431:ARG:HG3	3:J:432:LEU:HD23	1.81	0.61
1:M:190:ALA:N	1:M:199:ASP:HA	2.14	0.61
3:P:1078:LEU:CD1	3:P:1121:LEU:HD22	2.30	0.61
3:P:1342:ASP:OD1	3:P:1344:LEU:HD23	1.99	0.61
3:P:377:PHE:O	3:P:381:ILE:HG13	2.01	0.61
1:A:47:LEU:HD13	1:A:183:ILE:CD1	2.21	0.61
2:C:409:LEU:HD11	2:C:427:ASP:C	2.21	0.61
2:C:496:LYS:CB	2:C:497:PRO:HD3	2.30	0.61
2:I:216:THR:O	2:I:220:ILE:HG13	2.01	0.61
3:J:1284:ARG:O	3:J:1287:ILE:HG22	2.01	0.61
2:O:303:ASP:OD1	2:O:328:SER:HB2	2.00	0.61
2:O:431:LYS:O	2:O:435:ILE:HG13	2.01	0.61
3:P:138:VAL:HG12	3:P:139:LEU:N	2.15	0.61
3:P:609:TYR:CD1	3:P:609:TYR:C	2.73	0.61
3:P:262:THR:HA	5:R:507:MET:SD	2.40	0.61
2:C:1217:THR:HG21	3:D:634:ARG:HH12	1.63	0.61
3:D:1256:ILE:HB	3:D:1260:MET:HE1	1.82	0.61
3:D:363:LEU:HD23	3:D:618:VAL:HG13	1.82	0.61
3:D:737:ILE:HG22	3:D:738:ARG:N	2.15	0.61
4:E:22:VAL:HG12	4:E:64:LEU:HD12	1.83	0.61
2:I:173:ASN:HA	2:I:186:PHE:O	2.01	0.61
2:I:790:ASP:HB2	2:I:795:ALA:HB2	1.83	0.61
2:I:906:PHE:HE1	5:L:607:LEU:HB3	1.66	0.61
3:J:1230:THR:HA	3:J:1233:ILE:CD1	2.31	0.61
2:I:1270:PHE:HB2	3:J:347:VAL:HG21	1.83	0.61
3:J:723:TYR:CD1	3:J:723:TYR:O	2.54	0.61
3:J:736:GLN:CA	3:J:736:GLN:HE21	2.13	0.61
2:O:76:GLY:HA3	2:O:95:PRO:HG2	1.83	0.61
3:P:514:THR:HG23	3:P:596:LEU:HD12	1.71	0.61
5:R:587:ILE:H	5:R:587:ILE:HD13	1.60	0.61
2:C:1246:ARG:NH2	2:C:1249:GLY:H	1.99	0.61
2:C:158:ASP:HB3	2:C:173:ASN:OD1	1.99	0.61
2:C:453:ILE:HD13	2:C:453:ILE:N	2.12	0.61
1:G:68:TYR:HE2	2:I:927:THR:HB	1.65	0.61
2:I:808:ASN:C	3:J:629:PHE:HB3	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:233:LYS:CG	3:J:234:PRO:HD2	2.30	0.61
3:J:255:LEU:HD22	3:J:256:ASP:N	2.13	0.61
2:O:267:ARG:HD3	2:O:268:ARG:N	2.15	0.61
2:O:292:ILE:HG21	2:O:322:LEU:HD21	1.83	0.61
3:P:111:THR:HG23	3:P:300:GLN:HG3	1.82	0.61
3:P:673:VAL:CG1	3:P:674:THR:O	2.47	0.61
3:J:427:PRO:HB3	7:5:12:DG:N2	2.16	0.61
1:B:33:ARG:H	1:B:198:LEU:HD12	1.66	0.61
2:C:112:GLY:C	2:C:114:VAL:H	2.04	0.61
3:D:690:ASN:HD22	3:D:690:ASN:C	2.05	0.61
1:H:168:ILE:CD1	3:P:867:GLN:HB3	2.31	0.61
3:J:399:LYS:NZ	5:L:611:LEU:HD23	2.16	0.61
3:P:341:ASN:OD1	3:P:341:ASN:N	2.33	0.61
2:O:1242:LYS:NZ	3:P:465:GLN:HE21	1.99	0.61
3:P:622:ASP:O	3:P:625:MET:HB3	2.01	0.61
2:C:459:MET:HB3	2:C:505:PHE:CZ	2.36	0.61
2:C:975:ILE:O	2:C:979:LEU:HG	2.01	0.61
2:I:1243:MET:HG3	3:J:372:MET:HE1	1.82	0.61
2:I:548:ARG:HH12	3:J:788:LEU:HG	1.66	0.61
2:C:427:ASP:O	2:C:430:LYS:HB2	2.01	0.60
2:C:520:PRO:O	2:C:524:ILE:HG13	2.01	0.60
2:C:617:ALA:HB2	2:C:636:CYS:SG	2.40	0.60
3:D:1328:THR:O	3:D:1332:LEU:CG	2.41	0.60
3:D:805:GLN:O	3:D:1347:LEU:HD11	2.00	0.60
3:D:135:ILE:HG22	3:D:139:LEU:HD11	1.83	0.60
5:F:519:LEU:HD12	5:F:522:PHE:HB3	1.83	0.60
2:I:182:SER:HA	2:I:183:TRP:CE3	2.36	0.60
2:I:720:ARG:HD2	2:I:736:VAL:HG21	1.83	0.60
3:J:1349:GLU:O	3:J:1353:VAL:HG13	2.01	0.60
3:J:796:LEU:HA	3:J:799:ARG:HE	1.66	0.60
1:N:26:VAL:CG1	1:N:28:LEU:HD23	2.31	0.60
3:P:481:ARG:O	3:P:485:MET:HB2	2.01	0.60
2:I:1261:GLY:HA2	7:5:16:DC:OP2	2.01	0.60
1:A:38:THR:CG2	1:B:42:ALA:HB1	2.31	0.60
2:C:230:PHE:CE1	2:C:292:ILE:HG12	2.36	0.60
2:C:522:SER:O	2:C:525:THR:HG22	2.00	0.60
2:C:642:SER:O	2:C:643:SER:HB3	2.01	0.60
3:D:227:PHE:HE1	3:D:234:PRO:HD3	1.66	0.60
2:C:1309:VAL:O	3:D:383:GLY:HA3	2.00	0.60
3:D:423:LEU:HB3	3:D:466:MET:HE1	1.83	0.60
3:D:553:THR:HG23	3:D:567:THR:OG1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:58:GLU:HB2	1:G:145:LYS:HB3	1.83	0.60
3:J:1179:PRO:CD	3:J:1184:ASP:O	2.48	0.60
3:J:261:ALA:CB	5:L:519:LEU:HD21	2.31	0.60
5:L:560:ARG:HA	5:L:565:ILE:HD12	1.83	0.60
2:O:110:PRO:C	2:O:112:GLY:N	2.54	0.60
2:O:898:GLU:OE2	5:R:565:ILE:HG23	2.01	0.60
3:P:271:ARG:O	3:P:275:ARG:HG3	2.00	0.60
6:4:44:DG:C5	6:4:45:DT:H72	2.36	0.60
1:A:35:PHE:HB3	1:A:39:LEU:HD11	1.83	0.60
2:C:1012:GLU:HA	2:C:1015:ALA:HB3	1.83	0.60
2:C:709:ALA:O	2:C:712:SER:OG	2.19	0.60
2:C:975:ILE:HG22	2:C:979:LEU:HD11	1.83	0.60
3:D:501:VAL:HG13	3:D:502:PRO:HD2	1.82	0.60
3:D:614:LEU:O	3:D:618:VAL:HG23	2.02	0.60
3:D:828:GLY:O	3:D:994:SER:O	2.20	0.60
1:G:232:VAL:HG22	1:H:221:ALA:HB3	1.69	0.60
2:I:1138:VAL:HG13	2:I:1169:VAL:HG11	1.82	0.60
3:J:1281:GLU:HB3	3:J:1284:ARG:HG3	1.83	0.60
5:L:166:VAL:HG12	5:L:167:ASP:H	1.65	0.60
3:J:79:LYS:HD2	5:L:569:THR:HG22	1.83	0.60
2:O:890:LYS:HG2	2:O:891:GLY:N	2.16	0.60
3:P:1138:LEU:CB	3:P:1139:PRO:HD3	2.30	0.60
3:P:121:PRO:HG3	6:7:58:DG:OP1	2.01	0.60
3:P:115:TRP:CZ3	3:P:1329:THR:HA	2.35	0.60
1:G:195:ARG:HH22	4:Q:66:VAL:HG23	1.65	0.60
5:R:102:MET:HB3	6:7:42:DG:N2	2.16	0.60
2:C:325:LEU:CD1	2:C:333:ILE:HD11	2.31	0.60
3:D:791:ALA:O	7:2:12:DG:H5"	2.02	0.60
4:E:13:ILE:HD12	4:E:19:LEU:HA	1.84	0.60
1:G:41:ASN:HD22	1:H:41:ASN:ND2	1.99	0.60
2:I:178:PRO:HA	2:I:397:LEU:HD21	1.82	0.60
2:I:565:GLU:O	2:I:567:PRO:HD2	2.01	0.60
3:J:115:TRP:O	3:J:119:SER:HB3	2.02	0.60
3:J:151:MET:HB3	3:J:153:ASN:HD22	1.64	0.60
3:J:350:SER:HB3	3:J:469:HIS:CE1	2.36	0.60
3:J:823:THR:HB	3:J:824:PRO:CD	2.32	0.60
2:O:9:LYS:HE2	2:O:1171:ARG:HD2	1.84	0.60
2:O:30:ILE:HD12	2:O:30:ILE:H	1.64	0.60
3:P:620:PHE:O	3:P:624:ILE:CG1	2.43	0.60
5:R:322:MET:O	5:R:323:ASN:HB3	2.01	0.60
1:A:12:ARG:O	1:A:28:LEU:HD13	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:ASN:HD22	2:C:1218:GLY:HA3	1.65	0.60
2:C:1296:ASP:OD1	2:C:1296:ASP:N	2.34	0.60
2:C:57:PHE:HB3	2:C:58:PRO:HA	1.84	0.60
1:G:13:LEU:HA	1:G:28:LEU:CD2	2.31	0.60
2:I:662:SER:OG	2:I:663:VAL:N	2.28	0.60
3:J:742:GLY:O	3:J:762:ASN:HB3	2.01	0.60
5:L:261:LEU:HD22	5:L:262:VAL:O	2.01	0.60
1:N:158:ARG:HD3	1:N:172:LEU:CD1	2.27	0.60
3:P:115:TRP:CZ3	3:P:1332:LEU:HD12	2.36	0.60
1:A:225:ALA:HA	1:A:228:LEU:CD1	2.27	0.60
2:C:10:ARG:CZ	2:C:697:LYS:CD	2.80	0.60
2:C:1275:VAL:O	2:C:1279:GLU:HG3	2.01	0.60
1:H:112:ALA:HB3	1:H:126:PRO:HA	1.83	0.60
2:I:732:ILE:HD11	2:I:769:PRO:CB	2.31	0.60
3:J:1229:VAL:O	3:J:1233:ILE:HG13	2.02	0.60
3:J:245:LEU:CD1	3:J:249:LEU:HD12	2.32	0.60
2:I:1113:LEU:HD21	3:J:641:ILE:HD13	1.81	0.60
3:P:1162:ILE:HG13	3:P:1180:VAL:HG13	1.82	0.60
3:P:622:ASP:HA	3:P:625:MET:HE1	1.84	0.60
2:C:230:PHE:CZ	2:C:292:ILE:HG12	2.37	0.60
2:C:452:ARG:O	2:C:453:ILE:HD13	2.01	0.60
2:C:525:THR:CG2	2:C:526:HIS:N	2.64	0.60
2:C:705:GLU:OE1	2:C:705:GLU:N	2.34	0.60
3:D:1286:LYS:O	3:D:1289:ASN:HB2	2.02	0.60
3:D:555:TYR:CD1	3:D:585:LYS:HB3	2.37	0.60
4:E:6:VAL:HG11	4:E:51:LEU:HD22	1.83	0.60
1:G:228:LEU:HB3	1:H:224:LEU:HD21	1.82	0.60
2:I:1081:PRO:CB	2:I:1083:GLU:OE1	2.49	0.60
2:I:495:ALA:HA	2:I:498:ILE:CD1	2.32	0.60
2:I:764:CYS:O	2:I:764:CYS:SG	2.59	0.60
3:J:1287:ILE:HD13	3:J:1291:GLU:HG3	1.84	0.60
2:O:30:ILE:H	2:O:30:ILE:CD1	2.14	0.60
2:O:811:ASN:HB2	2:O:1099:ASN:HB2	1.84	0.60
2:O:950:GLU:HA	2:O:953:LEU:HD12	1.82	0.60
2:C:25:PRO:O	2:C:27:LEU:HD23	2.02	0.60
3:D:1027:VAL:CG2	3:D:1124:ILE:HD11	2.32	0.60
3:D:145:VAL:HA	3:D:158:GLN:O	2.01	0.60
5:F:431:ALA:O	5:F:435:ILE:HD12	2.02	0.60
2:I:1004:ASP:CG	2:I:1008:GLN:HB2	2.22	0.60
2:I:726:TYR:HB3	2:I:733:VAL:CG2	2.31	0.60
3:J:1164:SER:C	3:J:1175:LEU:CD1	2.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:61:ASN:HA	4:K:64:LEU:HD12	1.83	0.60
5:L:385:ARG:C	5:L:388:ILE:HG23	2.22	0.60
2:O:1247:SER:OG	2:O:1248:THR:N	2.34	0.60
2:O:59:ILE:HG23	2:O:476:LYS:CE	2.22	0.60
3:P:796:LEU:O	3:P:800:LEU:HG	2.02	0.60
3:D:382:TYR:HE1	3:D:398:LYS:N	2.00	0.60
3:D:530:PRO:HD2	3:D:531:LYS:HZ1	1.66	0.60
2:I:646:SER:O	2:I:650:VAL:HG23	2.02	0.60
2:I:770:CYS:HB3	2:I:791:LEU:HD22	1.84	0.60
2:I:94:ALA:CB	2:I:129:LEU:HD11	2.31	0.60
3:J:1241:TYR:HD2	3:J:1241:TYR:H	1.48	0.60
3:J:24:LEU:HD11	3:J:237:MET:SD	2.42	0.60
3:J:530:PRO:HB2	3:J:581:MET:HG3	1.84	0.60
3:J:645:VAL:CG2	3:J:700:ASN:ND2	2.65	0.60
5:L:309:ASN:OD1	5:L:312:SER:HB3	2.01	0.60
2:O:956:ALA:O	2:O:960:LEU:HG	2.02	0.60
3:P:1145:PHE:HB3	3:P:1309:ILE:CD1	2.25	0.60
3:P:869:CYS:HA	3:P:872:LEU:CD1	2.28	0.60
2:O:514:PHE:CZ	7:8:18:DT:O2	2.55	0.60
1:B:47:LEU:HD13	1:B:183:ILE:HD11	1.77	0.60
2:C:757:THR:HG22	2:C:758:ARG:H	1.67	0.60
3:D:436:ALA:O	3:D:485:MET:SD	2.60	0.60
3:D:527:LEU:HD13	3:D:532:GLU:HB3	1.84	0.60
2:I:1339:LEU:H	2:I:1339:LEU:CD1	2.14	0.60
2:O:1289:GLU:OE2	3:P:472:LEU:HB2	2.02	0.60
3:P:502:PRO:HB3	3:P:506:VAL:CG1	2.19	0.60
3:P:620:PHE:CD2	3:P:624:ILE:HD11	2.37	0.60
3:P:708:ASN:ND2	3:P:711:GLY:O	2.35	0.60
5:R:364:ARG:O	5:R:367:ILE:HB	2.02	0.60
2:C:516:ASP:HB3	2:C:522:SER:OG	2.02	0.59
3:D:1319:PHE:CE2	3:D:1342:ASP:HB2	2.37	0.59
3:D:251:PRO:O	5:F:507:MET:HE1	2.01	0.59
1:G:46:ILE:HD12	1:G:224:LEU:HB2	1.84	0.59
2:I:1313:HIS:NE2	3:J:380:PHE:CE1	2.68	0.59
2:I:690:VAL:HG12	2:I:691:PRO:HD2	1.84	0.59
3:J:1133:ASP:CG	3:J:1134:ILE:N	2.54	0.59
3:J:20:ILE:H	3:J:20:ILE:HD12	1.66	0.59
4:K:26:ARG:CZ	4:K:30:MET:HG2	2.32	0.59
3:P:115:TRP:CH2	3:P:1332:LEU:HD12	2.36	0.59
2:I:1273:MET:CG	7:5:13:DA:C4'	2.80	0.59
2:C:1315:MET:HB2	3:D:473:THR:HG21	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:515:MET:SD	2:C:523:GLU:CG	2.90	0.59
3:D:36:GLY:HA3	3:D:61:ILE:HG12	1.84	0.59
3:D:478:LEU:HD11	4:E:24:ALA:HB2	1.84	0.59
3:D:298:MET:CE	5:F:402:LEU:HB2	2.32	0.59
2:I:1330:ILE:HG22	2:I:1335:ILE:HB	1.83	0.59
2:I:375:PRO:HB3	5:L:87:VAL:HG21	1.84	0.59
2:I:575:LEU:HD11	2:I:579:ALA:CB	2.28	0.59
2:I:804:PHE:O	3:J:638:SER:HB3	2.03	0.59
3:J:165:TYR:O	3:J:169:LEU:N	2.33	0.59
3:J:475:GLU:HG3	4:K:24:ALA:CB	2.31	0.59
3:J:475:GLU:HA	3:J:478:LEU:HD12	1.84	0.59
3:J:53:ARG:O	3:J:58:CYS:HB2	2.00	0.59
5:L:105:MET:CE	5:L:385:ARG:HG2	2.31	0.59
3:P:885:VAL:HG11	3:P:1255:VAL:HA	1.83	0.59
3:P:1357:ILE:O	3:P:1362:GLY:HA3	2.00	0.59
3:P:261:ALA:O	5:R:507:MET:CE	2.50	0.59
3:P:661:VAL:CG2	3:P:685:ILE:HG21	2.30	0.59
2:C:1281:TYR:CE1	3:D:431:ARG:HD2	2.38	0.59
2:I:303:ASP:OD1	2:I:328:SER:HB3	2.02	0.59
2:I:724:VAL:HG23	2:I:775:GLU:O	2.03	0.59
5:L:119:ILE:N	5:L:119:ILE:HD12	2.16	0.59
2:O:964:LEU:CD1	2:O:1021:LEU:HD22	2.32	0.59
2:O:478:ARG:HG2	2:O:481:LEU:HD22	1.84	0.59
3:P:898:CYS:HG	9:P:1502:ZN:ZN	1.13	0.59
1:B:130:ILE:HG22	1:B:131:CYS:SG	2.42	0.59
1:B:91:ARG:HH12	1:B:210:THR:HG22	1.66	0.59
2:C:618:GLN:HA	2:C:654:ASP:OD2	2.03	0.59
3:D:332:LYS:HZ1	3:D:1327:GLU:HA	1.66	0.59
3:D:888:CYS:HG	9:D:1502:ZN:ZN	1.16	0.59
3:D:704:GLU:O	3:D:704:GLU:CG	2.50	0.59
4:E:31:GLN:OE1	4:E:46:THR:HG21	2.02	0.59
2:I:240:GLU:HG3	2:I:284:LEU:HD21	1.84	0.59
2:I:542:ARG:CD	6:4:51:DC:OP2	2.50	0.59
3:J:233:LYS:HG3	3:J:234:PRO:HD2	1.82	0.59
2:O:1219:GLU:OE1	3:P:634:ARG:NH1	2.35	0.59
1:A:162:GLU:OE1	1:A:166:ARG:NH1	2.35	0.59
2:C:363:LEU:HD23	2:C:366:ILE:HD12	1.84	0.59
3:D:1319:PHE:CZ	3:D:1342:ASP:HB2	2.38	0.59
3:D:276:ASN:OD1	3:D:279:LEU:HD23	2.02	0.59
2:I:422:LYS:O	2:I:426:ILE:HG13	2.02	0.59
2:O:596:ASP:OD1	2:O:596:ASP:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1280:VAL:HG12	3:P:1281:GLU:N	2.17	0.59
3:P:130:MET:HG2	3:P:135:ILE:HG12	1.84	0.59
4:Q:26:ARG:O	4:Q:30:MET:HG3	2.02	0.59
5:R:130:VAL:HG13	5:R:365:MET:HG2	1.83	0.59
7:2:31:DT:H2"	7:2:32:DA:OP2	2.03	0.59
3:D:70:CYS:HB3	3:D:92:VAL:HG22	1.84	0.59
2:I:13:LYS:O	2:I:1182:ILE:HG22	2.01	0.59
2:I:1294:LYS:HD3	3:J:347:VAL:CG1	2.30	0.59
2:I:178:PRO:HB3	2:I:395:TYR:CE1	2.36	0.59
2:I:367:TYR:CD1	2:I:384:LEU:HD22	2.37	0.59
2:I:122:VAL:HG13	2:I:490:GLN:HG3	1.84	0.59
3:J:673:VAL:HG11	3:J:678:ARG:CG	2.32	0.59
2:O:1299:ASN:OD1	2:O:1299:ASN:N	2.34	0.59
2:O:933:VAL:O	2:O:934:PHE:CD1	2.56	0.59
1:A:97:GLU:HG3	1:A:147:GLN:HG2	1.84	0.59
2:C:176:ILE:HB	2:C:184:LEU:HB2	1.83	0.59
2:C:176:ILE:HG22	2:C:176:ILE:O	2.03	0.59
2:C:335:THR:CG2	2:C:336:LEU:N	2.66	0.59
2:C:500:ALA:O	2:C:504:GLU:HG2	2.02	0.59
2:C:761:GLN:O	2:C:762:ASN:HB2	2.03	0.59
1:H:106:GLY:HA2	1:H:136:GLU:HA	1.85	0.59
2:I:205:PRO:O	2:I:208:ILE:HG22	2.02	0.59
3:J:227:PHE:CD1	3:J:232:ASN:O	2.55	0.59
3:J:572:THR:OG1	3:J:576:ARG:HB2	2.02	0.59
3:J:811:GLU:O	3:J:895:CYS:HA	2.02	0.59
3:J:828:GLY:O	3:J:994:SER:O	2.21	0.59
5:L:276:MET:O	5:L:280:VAL:HG23	2.01	0.59
5:L:461:ASN:HA	7:5:26:DT:H73	1.83	0.59
1:M:179:PRO:HA	1:M:208:ASN:ND2	2.18	0.59
2:O:1261:GLY:CA	7:8:16:DC:P	2.90	0.59
3:P:115:TRP:O	3:P:119:SER:HB3	2.02	0.59
3:P:173:GLY:O	3:P:175:GLU:N	2.36	0.59
7:5:41:DG:H2"	7:5:42:DG:C8	2.38	0.59
1:A:12:ARG:O	1:A:28:LEU:CD1	2.50	0.59
1:B:16:ILE:HA	1:B:26:VAL:HG22	1.85	0.59
3:D:1353:VAL:HG21	3:D:1355:ARG:HD2	1.85	0.59
3:D:481:ARG:O	3:D:485:MET:HB2	2.02	0.59
5:F:454:VAL:O	5:F:457:ILE:HB	2.03	0.59
5:F:520:GLY:HA2	5:F:523:ILE:CD1	2.33	0.59
2:I:268:ARG:HH22	3:J:1048:ARG:HD2	1.65	0.59
2:I:297:VAL:HG22	2:I:315:MET:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:794:LEU:HD21	2:I:796:LEU:HD21	1.83	0.59
3:J:115:TRP:CE3	3:J:1333:THR:HG23	2.37	0.59
2:O:65:ASN:OD1	2:O:66:SER:N	2.35	0.59
2:O:757:THR:C	2:O:833:ILE:HD12	2.23	0.59
1:A:33:ARG:NH2	1:B:49:SER:HB2	2.17	0.59
1:B:86:LYS:CE	1:B:173:VAL:HG12	2.33	0.59
2:C:292:ILE:HG22	2:C:317:LEU:HD13	1.83	0.59
1:G:35:PHE:HB3	1:G:39:LEU:HD11	1.85	0.59
2:I:1138:VAL:CG1	2:I:1169:VAL:HG11	2.33	0.59
1:M:67:GLU:O	1:M:78:ILE:HB	2.02	0.59
2:O:1269:ARG:N	7:8:15:DT:OP1	2.35	0.59
2:O:209:ILE:CG2	2:O:210:LEU:N	2.65	0.59
2:O:595:THR:CG2	2:O:596:ASP:OD1	2.49	0.59
5:R:133:SER:HB3	5:R:365:MET:SD	2.42	0.59
5:R:262:VAL:HG13	5:R:263:PRO:HD3	1.83	0.59
5:R:295:CYS:SG	5:R:330:LEU:HD11	2.43	0.59
5:R:460:ILE:O	5:R:463:LEU:HG	2.02	0.59
8:6:13:GTP:N2	8:6:14:A:C4	2.71	0.59
1:A:234:LEU:HD23	1:B:13:LEU:HD23	1.85	0.59
3:D:736:GLN:O	3:D:740:LEU:CG	2.46	0.59
1:G:153:VAL:HG13	1:G:157:THR:CB	2.32	0.59
2:I:1270:PHE:CD2	2:I:1274:GLU:HB3	2.38	0.59
2:I:209:ILE:HG23	2:I:210:LEU:H	1.66	0.59
2:I:690:VAL:CG1	2:I:691:PRO:HD2	2.33	0.59
3:J:115:TRP:HE3	3:J:1333:THR:HG23	1.68	0.59
3:J:268:LEU:HB2	3:J:306:LEU:HD13	1.85	0.59
3:J:342:LEU:HD22	3:J:1352:ILE:CG2	2.33	0.59
3:J:357:VAL:HG22	3:J:461:PHE:CZ	2.37	0.59
3:J:79:LYS:HD2	5:L:569:THR:CG2	2.32	0.59
2:O:811:ASN:HD22	2:O:1099:ASN:CA	2.14	0.59
3:P:502:PRO:CB	3:P:506:VAL:HG11	2.20	0.59
5:R:548:LEU:HD22	5:R:560:ARG:HE	1.68	0.59
1:A:192:VAL:CG2	1:A:198:LEU:HD12	2.14	0.58
1:A:45:ARG:NH1	2:C:1215:GLY:O	2.34	0.58
2:C:942:ASP:O	2:C:945:ALA:HB3	2.02	0.58
5:F:574:GLU:OE1	5:F:584:ARG:HG2	2.03	0.58
2:I:13:LYS:HB3	2:I:1182:ILE:HG23	1.85	0.58
2:I:163:LYS:CD	2:I:171:LEU:HD12	2.32	0.58
2:I:838:CYS:SG	2:I:886:LYS:HE2	2.41	0.58
1:M:104:LYS:HE3	1:M:114:ASP:OD2	2.02	0.58
2:O:1104:PRO:CG	3:P:725:MET:CE	2.80	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1288:GLN:NE2	2:O:1317:PRO:HG3	2.18	0.58
2:O:878:THR:HA	2:O:925:SER:HB2	1.84	0.58
3:P:601:ILE:HG22	3:P:602:SER:N	2.17	0.58
4:Q:50:ALA:O	4:Q:54:ILE:HD12	2.02	0.58
8:3:14:A:O2'	8:3:15:G:H5'	2.03	0.58
6:7:46:DG:H3'	6:7:47:DC:H5''	1.84	0.58
1:A:32:GLU:HG2	1:A:33:ARG:H	1.67	0.58
5:F:167:ASP:N	5:F:168:PRO:HD3	2.18	0.58
2:I:1281:TYR:CE2	3:J:431:ARG:O	2.56	0.58
2:I:837:ALA:C	2:I:918:LEU:HD22	2.23	0.58
3:J:378:LYS:N	3:J:379:PRO:HD2	2.18	0.58
1:M:210:THR:HG22	1:M:211:ILE:HD13	1.85	0.58
2:O:1262:LYS:N	7:8:16:DC:OP1	2.36	0.58
3:P:1323:ALA:HB2	3:P:1331:VAL:HG11	1.84	0.58
2:C:901:LEU:O	2:C:905:ILE:HG13	2.03	0.58
3:D:1280:VAL:CG1	3:D:1281:GLU:N	2.65	0.58
3:D:805:GLN:HB2	3:D:1347:LEU:CG	2.33	0.58
1:G:102:LEU:HD13	1:G:114:ASP:C	2.23	0.58
3:J:580:TRP:CE3	3:J:583:VAL:HG21	2.38	0.58
2:O:1061:GLN:HB2	2:O:1062:PRO:CD	2.34	0.58
2:O:209:ILE:HG23	2:O:210:LEU:H	1.69	0.58
3:P:247:PRO:HA	3:P:250:ARG:CZ	2.33	0.58
3:P:615:LYS:HB2	3:P:616:PRO:HD3	1.85	0.58
5:R:306:PHE:CE2	5:R:310:GLU:HG2	2.38	0.58
1:A:224:LEU:HG	1:A:225:ALA:CA	2.29	0.58
2:C:807:TRP:HZ3	2:C:1086:PRO:CG	2.15	0.58
2:C:179:TYR:HB3	2:C:396:ASP:O	2.04	0.58
2:C:871:VAL:CG2	2:C:883:LEU:O	2.51	0.58
3:D:1101:LEU:CD2	3:D:1122:ALA:CB	2.80	0.58
3:D:1190:ILE:HD13	3:D:1196:LEU:HD21	1.85	0.58
1:H:39:LEU:O	1:H:43:LEU:CD2	2.52	0.58
3:J:955:LYS:HG2	3:J:956:GLY:N	2.18	0.58
5:L:407:GLU:HG2	5:L:442:SER:HB3	1.84	0.58
1:M:47:LEU:O	1:M:51:MET:CB	2.51	0.58
1:M:51:MET:CE	1:M:52:PRO:HD2	2.34	0.58
2:O:1296:ASP:HB3	2:O:1321:GLU:N	2.18	0.58
6:1:44:DG:H2'	6:1:45:DT:O4'	2.04	0.58
1:B:13:LEU:HA	1:B:28:LEU:CD2	2.30	0.58
1:B:27:THR:HG22	1:B:202:VAL:HG13	1.86	0.58
2:C:971:LEU:CD1	2:C:1014:LEU:HD13	2.33	0.58
2:C:575:LEU:HD11	2:C:579:ALA:CB	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:423:LEU:HD12	3:D:437:PHE:CD1	2.39	0.58
3:D:531:LYS:H	3:D:531:LYS:CD	2.00	0.58
2:I:1183:ALA:O	2:I:1185:PRO:HD3	2.03	0.58
2:I:912:ASP:O	2:I:913:VAL:CG2	2.47	0.58
2:I:90:VAL:HG12	2:I:91:THR:N	2.17	0.58
2:I:1286:THR:HG23	3:J:479:GLU:OE2	2.03	0.58
3:J:553:THR:HA	3:J:566:LYS:O	2.04	0.58
3:P:351:GLY:O	3:P:468:VAL:HG23	2.03	0.58
3:P:931:THR:O	3:P:935:PHE:CD2	2.56	0.58
1:A:38:THR:HB	1:A:39:LEU:HD21	1.85	0.58
1:A:57:THR:O	1:A:172:LEU:HD12	2.03	0.58
3:D:1132:LYS:CG	3:D:1243:LEU:HD21	2.33	0.58
3:D:580:TRP:CZ3	3:D:583:VAL:HG11	2.38	0.58
3:D:706:VAL:HG12	3:D:713:GLU:OE1	2.04	0.58
3:D:771:GLN:HA	3:D:774:ILE:HD11	1.84	0.58
1:H:112:ALA:HB1	1:H:123:ILE:HG21	1.84	0.58
2:I:1042:LEU:HD13	2:I:1049:ILE:HD11	1.84	0.58
2:I:149:LEU:HA	2:I:453:ILE:HD13	1.86	0.58
3:J:349:TYR:O	3:J:470:VAL:HG23	2.04	0.58
3:J:580:TRP:HA	3:J:583:VAL:HG21	1.84	0.58
3:J:673:VAL:HG13	3:J:674:THR:O	2.04	0.58
1:M:179:PRO:CA	1:M:208:ASN:HD21	2.17	0.58
1:B:142:MET:H	1:B:142:MET:HE3	1.69	0.58
1:B:15:ASP:O	1:B:26:VAL:HG13	2.03	0.58
1:B:58:GLU:HG2	1:B:172:LEU:HA	1.85	0.58
1:B:61:ILE:CD1	1:B:171:LEU:HD12	2.32	0.58
2:C:279:LYS:NZ	5:L:486:ARG:HH22	2.01	0.58
2:C:540:ARG:NH1	2:C:567:PRO:HB2	2.18	0.58
2:C:804:PHE:O	2:C:805:MET:HB3	2.03	0.58
3:D:1229:VAL:O	3:D:1233:ILE:CG1	2.49	0.58
3:D:1267:VAL:O	3:D:1268:ASN:CB	2.47	0.58
3:D:1318:SER:HA	3:D:1342:ASP:OD2	2.02	0.58
3:D:260:PHE:O	5:F:505:ILE:HB	2.04	0.58
2:I:801:ARG:HG2	2:I:1229:TYR:CE2	2.39	0.58
2:I:15:PHE:O	2:I:17:LYS:HD2	2.04	0.58
2:I:186:PHE:CE2	2:I:196:VAL:HG13	2.38	0.58
3:J:1310:THR:O	3:J:1314:LEU:HG	2.03	0.58
3:J:615:LYS:N	3:J:616:PRO:CD	2.67	0.58
3:J:825:VAL:HG22	3:J:838:ARG:HH11	1.68	0.58
5:L:102:MET:HB3	6:4:42:DG:N2	2.18	0.58
5:L:585:GLU:CG	7:5:47:DC:H41	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:84:ASN:OD1	3:P:551:ARG:NH2	2.33	0.58
2:O:292:ILE:HG21	2:O:322:LEU:HD11	1.85	0.58
3:P:15:GLU:HG2	3:P:15:GLU:O	2.03	0.58
5:R:302:PHE:CZ	5:R:306:PHE:HB2	2.38	0.58
2:C:1061:GLN:HB2	2:C:1062:PRO:CD	2.31	0.58
3:D:1291:GLU:O	3:D:1295:ASN:ND2	2.37	0.58
1:G:190:ALA:HB2	1:G:200:LYS:N	2.18	0.58
2:I:859:GLU:HA	2:I:862:LEU:HB2	1.86	0.58
3:J:205:LEU:HD21	3:J:214:ARG:CG	2.33	0.58
3:J:68:TYR:HA	3:J:92:VAL:HG12	1.86	0.58
3:J:795:TYR:O	3:J:799:ARG:HG3	2.03	0.58
3:J:803:VAL:CG2	3:J:1313:SER:OG	2.51	0.58
4:K:61:ASN:HA	4:K:64:LEU:CD1	2.34	0.58
5:L:407:GLU:HG2	5:L:442:SER:CB	2.34	0.58
1:M:61:ILE:HG12	1:M:142:MET:CE	2.33	0.58
1:M:179:PRO:CB	1:M:208:ASN:HD21	2.17	0.58
2:O:1314:GLN:HE21	2:O:1316:GLU:HG3	1.68	0.58
2:O:525:THR:O	2:O:528:ARG:HG3	2.03	0.58
3:P:1145:PHE:HE1	3:P:1256:ILE:HD13	1.65	0.58
3:P:1280:VAL:HG12	3:P:1281:GLU:H	1.68	0.58
2:C:1111:GLN:HG3	2:C:1112:ILE:HD12	1.85	0.58
2:C:21:VAL:HG21	2:C:592:ARG:NH1	2.19	0.58
3:D:1159:ILE:HG22	3:D:1160:SER:H	1.68	0.58
2:I:926:GLY:HA3	2:I:1056:VAL:HG22	1.86	0.58
3:J:275:ARG:NH2	3:J:301:GLU:OE1	2.37	0.58
1:N:19:VAL:HG12	1:N:20:SER:N	2.18	0.58
3:P:429:LEU:HB2	3:P:430:HIS:ND1	2.19	0.58
3:P:762:ASN:ND2	3:P:764:ARG:HB3	2.18	0.58
2:C:349:GLU:OE1	2:C:349:GLU:HA	2.03	0.58
3:D:1062:LEU:HD22	3:D:1066:GLU:OE2	2.03	0.58
2:C:1284:ALA:HB1	3:D:1356:LEU:HD23	1.86	0.58
1:H:217:ILE:N	1:H:217:ILE:HD12	2.17	0.58
1:H:223:ILE:O	1:H:227:GLN:HG2	2.03	0.58
2:I:362:ALA:O	2:I:366:ILE:HG13	2.03	0.58
3:J:421:VAL:HG13	3:J:471:PRO:CD	2.33	0.58
2:I:1286:THR:CG2	3:J:479:GLU:OE2	2.52	0.58
1:H:44:ARG:NH1	3:J:538:ARG:HB3	2.18	0.58
2:O:759:SER:HB3	2:O:765:ILE:CG1	2.34	0.58
3:P:102:MET:HG2	3:P:246:PRO:HD3	1.84	0.58
3:P:1040:MET:HE3	3:P:1046:ILE:HG21	1.86	0.58
3:P:53:ARG:O	3:P:58:CYS:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:54:ASP:OD1	3:P:60:ARG:NH1	2.37	0.58
3:P:682:VAL:HG13	3:P:686:TRP:NE1	2.19	0.58
3:P:846:GLU:N	3:P:860:ARG:HG2	2.18	0.58
3:P:984:LEU:HB3	3:P:993:GLU:HB2	1.86	0.58
3:P:828:GLY:O	3:P:994:SER:O	2.20	0.58
5:R:585:GLU:OE2	5:R:588:ARG:HG2	2.02	0.58
6:4:44:DG:C6	6:4:45:DT:H72	2.39	0.57
3:D:1229:VAL:HG13	3:D:1230:THR:N	2.19	0.57
3:D:234:PRO:O	3:D:237:MET:HG3	2.02	0.57
1:H:61:ILE:HB	1:H:64:VAL:HB	1.86	0.57
2:I:991:LYS:N	2:I:991:LYS:HD2	2.19	0.57
3:J:1133:ASP:OD1	3:J:1134:ILE:N	2.37	0.57
3:J:113:HIS:CD2	3:J:115:TRP:HB2	2.39	0.57
3:J:1320:ILE:HD12	3:J:1344:LEU:CD2	2.33	0.57
3:J:146:VAL:HG21	3:J:158:GLN:CB	2.34	0.57
5:L:446:GLN:O	5:L:448:ARG:N	2.37	0.57
1:M:48:LEU:CD2	1:M:183:ILE:HG22	2.31	0.57
1:M:74:VAL:CG1	1:M:131:CYS:SG	2.92	0.57
1:N:13:LEU:HD13	1:N:26:VAL:HG13	1.86	0.57
2:O:96:LEU:HD23	2:O:124:MET:HB2	1.86	0.57
2:O:267:ARG:HD3	2:O:268:ARG:H	1.68	0.57
2:O:448:LEU:HD12	2:O:557:ARG:HD2	1.85	0.57
3:P:138:VAL:HG12	3:P:139:LEU:CG	2.32	0.57
3:P:242:LEU:HD12	3:P:243:PRO:CD	2.34	0.57
3:P:773:PHE:HD2	3:P:774:ILE:HG12	1.69	0.57
7:2:29:DC:H2"	7:2:30:DA:C8	2.39	0.57
5:R:458:GLU:OE2	7:8:28:DG:C8	2.57	0.57
1:A:43:LEU:C	1:A:47:LEU:HD12	2.24	0.57
2:C:1309:VAL:HG13	3:D:383:GLY:N	2.18	0.57
3:D:1134:ILE:HG22	3:D:1138:LEU:HG	1.84	0.57
3:D:318:GLY:CA	3:D:322:ARG:HH12	2.10	0.57
3:D:519:ASN:HA	3:D:523:GLU:CD	2.25	0.57
2:I:130:MET:SD	2:I:134:GLY:HA2	2.44	0.57
2:I:390:PHE:CD2	2:I:390:PHE:N	2.71	0.57
3:J:797:THR:HG21	3:J:924:GLY:HA3	1.84	0.57
5:L:381:GLU:O	5:L:384:LEU:CG	2.50	0.57
2:O:1304:MET:HE3	2:O:1308:ILE:HD11	1.85	0.57
1:B:102:LEU:HD12	1:B:103:ASN:N	2.19	0.57
3:D:1362:GLY:O	3:D:1366:HIS:CB	2.50	0.57
3:D:166:LEU:O	3:D:170:GLU:HG3	2.04	0.57
3:D:378:LYS:HB3	3:D:379:PRO:HD3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:501:VAL:CG1	3:D:502:PRO:HD2	2.35	0.57
3:D:931:THR:O	3:D:935:PHE:CD2	2.57	0.57
2:I:178:PRO:CB	2:I:395:TYR:CE1	2.88	0.57
2:I:813:GLU:O	3:J:461:PHE:HB2	2.04	0.57
2:I:798:GLN:CB	2:I:828:PHE:CZ	2.85	0.57
3:J:968:ASN:HA	3:J:1117:SER:O	2.04	0.57
1:N:61:ILE:HA	1:N:142:MET:CB	2.32	0.57
2:O:146:VAL:CG1	2:O:529:ARG:O	2.52	0.57
3:P:248:ASP:O	3:P:251:PRO:HG3	2.04	0.57
3:P:483:LEU:HD11	4:Q:17:PHE:CD1	2.38	0.57
5:R:423:ARG:HB3	5:R:425:TYR:HD2	1.68	0.57
3:D:932:MET:SD	8:3:17:C:C2	2.97	0.57
6:4:55:DC:H2"	6:4:56:DG:C8	2.39	0.57
1:B:230:ALA:HB3	1:B:231:PHE:CZ	2.39	0.57
2:C:1116:HIS:HE1	2:C:1226:THR:HG23	1.68	0.57
2:C:1286:THR:O	2:C:1290:MET:HG2	2.04	0.57
3:D:1109:LEU:HD22	3:D:1113:VAL:HG21	1.87	0.57
3:D:1327:GLU:O	3:D:1331:VAL:HG23	2.05	0.57
3:D:363:LEU:HD21	3:D:487:THR:HA	1.86	0.57
3:D:502:PRO:HG2	3:D:601:ILE:HD13	1.84	0.57
3:D:621:ALA:CA	3:D:624:ILE:HD12	2.32	0.57
3:J:1272:SER:HB2	3:J:1274:PHE:HE2	1.64	0.57
3:J:36:GLY:HA3	3:J:61:ILE:HD13	1.85	0.57
3:J:557:LYS:HA	3:J:562:GLU:O	2.04	0.57
3:J:600:ALA:O	3:J:604:MET:HG3	2.04	0.57
3:J:612:LEU:HD22	3:J:616:PRO:HG2	1.86	0.57
1:N:65:LEU:O	1:N:171:LEU:HD21	2.04	0.57
5:R:429:THR:HA	6:7:40:DA:N7	2.20	0.57
5:R:573:LEU:HB3	7:8:45:DG:OP2	2.04	0.57
1:A:227:GLN:O	1:A:231:PHE:CE1	2.56	0.57
1:B:33:ARG:O	1:B:35:PHE:CD2	2.57	0.57
2:C:653:MET:HG2	2:C:654:ASP:N	2.19	0.57
2:C:92:TYR:CB	2:C:137:VAL:HG21	2.34	0.57
3:D:399:LYS:HE3	5:F:612:ASP:CB	2.34	0.57
1:G:44:ARG:CA	1:G:47:LEU:HD12	2.19	0.57
1:H:162:GLU:CG	1:H:162:GLU:O	2.49	0.57
2:I:558:VAL:HG11	2:I:573:ASN:HB3	1.86	0.57
2:I:705:GLU:OE1	2:I:705:GLU:N	2.36	0.57
2:I:734:ILE:HG21	2:I:751:TYR:HE2	1.68	0.57
3:J:665:GLN:HE21	3:J:682:VAL:HG21	1.69	0.57
3:P:1075:ARG:HG3	3:P:1192:LYS:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:279:LYS:HZ3	5:L:486:ARG:HH22	1.52	0.57
2:C:796:LEU:HB2	2:C:1233:LEU:HD11	1.85	0.57
3:D:933:ARG:HH11	3:D:937:ILE:HD11	1.70	0.57
4:E:44:ASP:HB3	4:E:48:VAL:HB	1.85	0.57
2:I:1004:ASP:CG	2:I:1008:GLN:CB	2.73	0.57
2:I:517:GLN:H	2:I:761:GLN:HE22	1.52	0.57
2:I:953:LEU:HD22	2:I:957:LYS:HZ1	1.67	0.57
2:I:960:LEU:HB3	2:I:1025:PHE:HE1	1.70	0.57
3:P:1259:GLN:NE2	3:P:1259:GLN:HA	2.14	0.57
3:P:416:ILE:CD1	3:P:441:LEU:HG	2.35	0.57
5:R:386:LEU:HD22	6:7:41:DT:C2	2.39	0.57
5:R:395:THR:HA	5:R:404:LEU:HD13	1.87	0.57
6:1:22:DC:H2''	6:1:23:DA:OP2	2.04	0.57
6:1:45:DT:C2'	6:1:46:DG:O4'	2.51	0.57
2:C:832:HIS:HB2	2:C:1056:VAL:HB	1.85	0.57
3:D:348:ASP:HB3	3:D:349:TYR:CD2	2.40	0.57
3:J:795:TYR:CE2	3:J:799:ARG:NH1	2.73	0.57
1:M:68:TYR:O	2:O:756:TYR:CD2	2.58	0.57
2:O:1304:MET:O	2:O:1308:ILE:HG13	2.05	0.57
4:Q:13:ILE:HD13	4:Q:19:LEU:HA	1.86	0.57
1:A:57:THR:HG22	1:A:58:GLU:HG3	1.86	0.57
1:B:142:MET:N	1:B:142:MET:CE	2.64	0.57
2:C:1087:TYR:HD2	2:C:1088:ASP:O	1.88	0.57
2:C:1268:GLN:HE22	3:D:351:GLY:N	2.03	0.57
2:C:757:THR:CG2	2:C:758:ARG:H	2.16	0.57
3:D:1263:LYS:HD3	3:D:1281:GLU:CA	2.29	0.57
3:D:609:TYR:C	3:D:609:TYR:HD1	2.06	0.57
5:F:91:ILE:HG23	5:F:94:THR:H	1.69	0.57
1:H:61:ILE:CD1	1:H:171:LEU:HD12	2.35	0.57
1:H:39:LEU:C	1:H:43:LEU:HD11	2.24	0.57
2:I:550:VAL:HG21	3:J:776:THR:HG22	1.87	0.57
1:M:88:LEU:HD21	1:M:112:ALA:HB2	1.86	0.57
3:P:1360:GLY:HA2	4:Q:17:PHE:CE2	2.40	0.57
5:R:237:ALA:O	5:R:238:LYS:HB2	2.05	0.57
5:R:459:THR:O	5:R:463:LEU:HD21	2.05	0.57
3:P:259:ARG:HD3	5:R:502:LYS:HG2	1.86	0.57
2:C:217:THR:O	2:C:220:ILE:HB	2.04	0.57
3:D:1018:ALA:O	3:D:1019:ASN:HB2	2.05	0.57
5:F:235:ILE:O	5:F:239:GLY:O	2.22	0.57
5:F:592:ALA:HA	5:F:595:LEU:HD12	1.86	0.57
2:I:1270:PHE:CE2	2:I:1274:GLU:HB3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:223:LEU:HD13	2:I:426:ILE:HG21	1.85	0.57
2:I:732:ILE:CD1	2:I:769:PRO:HB3	2.34	0.57
3:J:872:LEU:C	3:J:872:LEU:HD22	2.24	0.57
3:J:820:ILE:O	3:J:882:VAL:HG12	2.04	0.57
1:M:226:GLU:O	1:M:229:GLU:HB2	2.05	0.57
2:O:358:ASP:OD1	2:O:358:ASP:N	2.36	0.57
2:O:590:PRO:HB2	2:O:655:VAL:HG21	1.86	0.57
2:O:759:SER:OG	2:O:763:THR:OG1	2.18	0.57
3:P:142:GLU:OE1	5:R:91:ILE:HG21	2.05	0.57
3:P:363:LEU:HD23	3:P:618:VAL:HG13	1.87	0.57
3:P:531:LYS:H	3:P:531:LYS:HD2	1.70	0.57
5:R:387:VAL:CG2	5:R:435:ILE:HD13	2.34	0.57
2:C:1099:ASN:HD21	2:C:1101:LEU:HB2	1.70	0.57
2:C:1288:GLN:OE1	3:D:1356:LEU:HG	2.05	0.57
2:C:32:LEU:O	2:C:36:GLN:HB2	2.04	0.57
1:G:192:VAL:HB	1:G:195:ARG:HB2	1.87	0.57
1:H:15:ASP:HB3	1:H:27:THR:OG1	2.04	0.57
2:I:178:PRO:HG3	2:I:395:TYR:HE1	1.69	0.57
3:J:1156:LEU:CD2	3:J:1209:VAL:HA	2.22	0.57
3:J:1272:SER:CB	3:J:1274:PHE:CE2	2.86	0.57
3:J:536:LEU:HD21	3:J:541:LEU:CB	2.34	0.57
3:J:931:THR:O	3:J:935:PHE:HD2	1.86	0.57
2:O:173:ASN:HA	2:O:186:PHE:O	2.05	0.57
2:O:30:ILE:N	2:O:30:ILE:CD1	2.68	0.57
3:P:1169:THR:O	3:P:1172:LYS:HB2	2.05	0.57
3:P:121:PRO:O	3:P:122:SER:CB	2.43	0.57
3:P:483:LEU:HD11	4:Q:17:PHE:HD1	1.69	0.57
3:P:553:THR:HA	3:P:567:THR:HG23	1.86	0.57
3:P:58:CYS:SG	3:P:60:ARG:N	2.78	0.57
7:8:24:DT:H2"	7:8:25:DA:OP1	2.04	0.56
5:R:461:ASN:HA	7:8:26:DT:H72	1.86	0.56
1:A:157:THR:HA	1:A:160:HIS:HB2	1.87	0.56
1:B:52:PRO:HA	1:B:150:ARG:HA	1.86	0.56
2:C:654:ASP:HB3	2:C:659:GLN:NE2	2.20	0.56
3:D:709:ARG:O	3:D:709:ARG:CG	2.47	0.56
5:F:429:THR:HA	6:1:40:DA:N7	2.20	0.56
2:C:1253:LEU:CD1	5:F:525:ASP:HB2	2.34	0.56
2:I:213:LEU:HD11	2:I:390:PHE:CZ	2.40	0.56
2:I:551:HIS:H	2:I:554:HIS:CE1	2.23	0.56
3:J:151:MET:HB3	3:J:153:ASN:ND2	2.20	0.56
3:J:522:GLY:HA2	3:J:525:MET:SD	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:216:LEU:O	5:L:220:LYS:HG2	2.05	0.56
2:O:539:THR:CG2	2:O:540:ARG:H	2.15	0.56
2:O:757:THR:O	2:O:833:ILE:HD12	2.04	0.56
3:P:1215:GLU:HB3	3:P:1220:ILE:HD11	1.86	0.56
6:4:54:DA:C2'	6:4:55:DC:OP2	2.51	0.56
2:C:264:GLU:CB	2:C:267:ARG:HB3	2.27	0.56
2:C:936:ARG:HG3	2:C:937:ASP:N	2.20	0.56
3:D:741:ALA:C	3:D:762:ASN:HD22	2.09	0.56
5:F:290:LEU:O	5:F:294:GLN:HB3	2.05	0.56
5:F:389:SER:O	5:F:393:LYS:HG2	2.06	0.56
2:I:1269:ARG:CZ	7:5:14:DC:OP1	2.54	0.56
2:I:851:THR:HG22	2:I:852:ALA:N	2.20	0.56
3:J:1198:VAL:HG22	3:J:1210:ILE:CG2	2.34	0.56
3:J:354:VAL:O	3:J:447:ILE:HD12	2.05	0.56
2:I:1256:GLN:HE21	3:J:99:ARG:NH2	2.03	0.56
2:O:1073:LYS:CD	3:P:462:ASP:HB2	2.35	0.56
2:O:936:ARG:HG2	2:O:937:ASP:H	1.69	0.56
3:D:385:LEU:HD11	3:D:400:MET:HE2	1.86	0.56
5:F:547:VAL:HG11	5:F:598:LEU:HD22	1.87	0.56
1:G:182:ARG:HD2	2:I:1092:THR:HG23	1.87	0.56
2:I:599:VAL:HG21	2:I:623:LEU:HD21	1.85	0.56
2:I:695:ALA:HB1	2:I:795:ALA:CB	2.36	0.56
2:I:843:THR:CB	2:I:845:LEU:HG	2.35	0.56
2:I:895:LEU:HB3	2:I:899:GLU:OE1	2.06	0.56
2:I:268:ARG:NH1	3:J:1042:ASP:OD2	2.39	0.56
3:J:429:LEU:HB2	3:J:430:HIS:ND1	2.20	0.56
3:J:823:THR:HB	3:J:824:PRO:HD2	1.87	0.56
5:L:471:LEU:HG	5:L:476:ARG:O	2.06	0.56
3:P:1067:ARG:HD3	3:P:1071:GLY:O	2.05	0.56
2:O:1285:TYR:CD2	3:P:1361:THR:HG21	2.40	0.56
3:P:978:ARG:CG	3:P:1212:ASP:HB3	2.35	0.56
4:Q:2:ALA:N	4:Q:51:LEU:HD22	2.19	0.56
2:O:123:TYR:HE2	5:R:471:LEU:HD21	1.71	0.56
2:C:409:LEU:O	2:C:410:LEU:HB2	2.05	0.56
3:D:1079:LYS:HE3	3:D:1087:ASP:OD1	2.05	0.56
3:D:378:LYS:HB3	3:D:379:PRO:CD	2.35	0.56
3:D:395:LYS:HA	3:D:398:LYS:HE3	1.88	0.56
2:I:523:GLU:O	2:I:527:LYS:HG3	2.05	0.56
3:J:1138:LEU:HB2	3:J:1139:PRO:HD3	1.81	0.56
3:J:421:VAL:HG11	3:J:469:HIS:O	1.94	0.56
3:J:645:VAL:HG23	3:J:700:ASN:ND2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:166:VAL:CG1	5:L:212:ILE:HG13	2.35	0.56
2:O:1030:GLU:OE2	2:O:1034:ARG:NE	2.35	0.56
2:O:12:ARG:CZ	2:O:1181:PRO:HB2	2.35	0.56
2:O:21:VAL:HG11	2:O:592:ARG:HD3	1.87	0.56
1:M:75:GLN:O	2:O:729:ALA:HB2	2.05	0.56
3:P:322:ARG:HG3	3:P:322:ARG:HH11	1.69	0.56
3:P:366:CYS:SG	3:P:437:PHE:HB2	2.46	0.56
6:4:51:DC:C3'	6:4:52:DT:H5'	2.35	0.56
5:L:461:ASN:HA	7:5:26:DT:C7	2.35	0.56
2:C:798:GLN:HE22	2:C:827:ARG:HG2	1.70	0.56
3:D:1256:ILE:HB	3:D:1260:MET:CE	2.34	0.56
3:D:227:PHE:HZ	3:D:234:PRO:HA	1.70	0.56
5:F:407:GLU:HG2	5:F:442:SER:HB3	1.88	0.56
2:I:1296:ASP:OD2	2:I:1320:PRO:HB3	2.05	0.56
2:I:542:ARG:NH2	6:4:50:DT:H72	2.20	0.56
2:I:782:VAL:HG11	2:I:792:GLY:HA2	1.87	0.56
5:L:305:LEU:HD22	5:L:315:TRP:HB2	1.88	0.56
2:O:558:VAL:HG12	2:O:558:VAL:O	2.04	0.56
3:P:221:ILE:HA	3:P:224:LEU:HD12	1.86	0.56
3:P:27:PRO:HA	3:P:30:ILE:HD12	1.87	0.56
3:P:515:ARG:HH21	3:P:717:VAL:HG23	1.71	0.56
5:R:235:ILE:HD11	5:R:249:ILE:HD11	1.87	0.56
6:1:17:DA:H2''	6:1:18:DC:OP2	2.06	0.56
6:1:54:DA:H2''	6:1:55:DC:H5'	1.87	0.56
1:A:232:VAL:HG22	1:B:221:ALA:CB	2.35	0.56
1:B:13:LEU:HD21	1:B:16:ILE:HD11	1.86	0.56
2:C:1049:ILE:HG22	2:C:1050:VAL:N	2.21	0.56
2:C:14:ASP:HB3	2:C:1157:GLN:HB2	1.86	0.56
3:D:242:LEU:HD12	3:D:243:PRO:O	2.05	0.56
5:F:450:ILE:HD12	5:F:452:ILE:HD11	1.87	0.56
3:J:1151:LYS:O	3:J:1153:PRO:HD3	2.06	0.56
3:J:736:GLN:HA	3:J:736:GLN:HE21	1.70	0.56
5:L:235:ILE:O	5:L:239:GLY:O	2.23	0.56
1:N:190:ALA:HB2	1:N:200:LYS:HG3	1.86	0.56
1:N:81:ILE:HD13	1:N:131:CYS:SG	2.46	0.56
2:O:212:ALA:HB1	2:O:363:LEU:CD2	2.35	0.56
2:O:42:ASP:OD1	2:O:43:PRO:HD2	2.06	0.56
3:P:1250:ASP:N	3:P:1250:ASP:OD1	2.38	0.56
3:P:955:LYS:CG	3:P:956:GLY:N	2.69	0.56
3:J:352:ARG:HD2	7:5:15:DT:H4'	1.88	0.56
7:8:4:DC:H2''	7:8:5:DC:H5'	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:670:PHE:CD2	2:C:1113:LEU:CB	2.82	0.56
3:D:256:ASP:OD1	3:D:256:ASP:N	2.36	0.56
3:D:418:GLU:O	3:D:420:PRO:HD3	2.04	0.56
5:F:586:ARG:NH1	6:I:13:DC:OP2	2.39	0.56
2:I:1004:ASP:OD2	2:I:1008:GLN:CG	2.53	0.56
2:I:1227:VAL:HG12	2:I:1228:GLY:H	1.69	0.56
2:I:807:TRP:CD1	2:I:817:LEU:HD11	2.41	0.56
2:O:1304:MET:CE	2:O:1308:ILE:HD11	2.36	0.56
2:O:743:PRO:HA	2:O:974:ARG:HH12	1.70	0.56
3:P:1320:ILE:HD11	3:P:1342:ASP:HB3	1.88	0.56
3:P:657:ALA:O	3:P:661:VAL:HG23	2.05	0.56
5:L:505:ILE:HD12	7:5:22:DA:N6	2.21	0.56
1:B:54:CYS:O	1:B:55:ALA:CB	2.54	0.56
2:C:452:ARG:HH22	2:C:458:GLU:CD	2.09	0.56
2:C:559:CYS:HB2	2:C:662:SER:N	2.20	0.56
2:C:622:ASN:HB3	2:C:630:VAL:CG2	2.33	0.56
3:D:1109:LEU:HD13	3:D:1113:VAL:HG11	1.86	0.56
3:D:364:HIS:HB3	3:D:487:THR:HG21	1.86	0.56
3:D:378:LYS:O	3:D:381:ILE:HB	2.05	0.56
3:D:725:MET:CE	3:D:731:ARG:HB3	2.36	0.56
5:F:333:VAL:HG13	5:F:337:VAL:HG23	1.87	0.56
2:I:1326:LEU:O	2:I:1330:ILE:HG13	2.05	0.56
2:I:296:VAL:CG1	2:I:297:VAL:N	2.68	0.56
3:J:609:TYR:CD1	3:J:609:TYR:C	2.79	0.56
1:N:99:ILE:HG22	1:N:99:ILE:O	2.04	0.56
3:P:923:ILE:HD11	3:P:1252:HIS:HB3	1.87	0.56
2:O:1332:SER:O	3:P:243:PRO:HG2	2.06	0.56
3:P:337:ARG:HD2	3:P:341:ASN:HD22	1.71	0.56
2:C:153:PRO:HB2	2:C:401:GLY:HA2	1.86	0.56
2:C:519:ASN:ND2	2:C:521:LEU:HB3	2.21	0.56
2:C:992:LEU:HB3	2:C:993:PRO:CD	2.34	0.56
3:D:421:VAL:HG23	3:D:439:PRO:HG2	1.85	0.56
2:I:1288:GLN:O	2:I:1292:THR:CG2	2.48	0.56
2:I:146:VAL:HB	2:I:511:LEU:HD22	1.88	0.56
2:I:15:PHE:O	2:I:17:LYS:CD	2.54	0.56
3:J:132:LEU:O	3:J:136:GLU:HG3	2.06	0.56
3:J:943:ARG:O	3:J:944:ALA:HB3	2.06	0.56
5:L:495:ARG:HA	5:L:498:LEU:HD12	1.88	0.56
2:I:1302:THR:HA	5:L:531:PRO:HB3	1.88	0.56
1:M:11:PRO:HB2	1:N:231:PHE:CZ	2.36	0.56
2:O:949:GLU:HG2	2:O:1036:ILE:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1165:PHE:CZ	3:P:1196:LEU:CD1	2.85	0.56
3:P:233:LYS:HG3	3:P:234:PRO:HD2	1.88	0.56
3:P:555:TYR:HB2	3:P:586:GLY:HA2	1.86	0.56
3:P:261:ALA:HA	5:R:505:ILE:O	2.06	0.56
2:O:900:LYS:HD2	5:R:563:PHE:CE1	2.40	0.56
1:B:53:GLY:O	1:B:177:TYR:HD1	1.88	0.56
2:C:1324:ASN:O	2:C:1328:LYS:HG2	2.05	0.56
2:C:61:SER:HB2	2:C:479:LEU:HD22	1.88	0.56
3:D:128:LEU:HD22	3:D:188:LEU:HD21	1.88	0.56
3:D:799:ARG:HB3	3:D:1309:ILE:CG2	2.35	0.56
3:D:1362:GLY:O	3:D:1366:HIS:N	2.38	0.56
3:D:364:HIS:CD2	4:E:4:VAL:HG13	2.41	0.56
2:I:1112:ILE:HG22	3:J:641:ILE:HG13	1.88	0.56
2:I:1187:PHE:CE1	3:J:769:VAL:HA	2.41	0.56
1:N:219:ARG:O	1:N:223:ILE:HG13	2.05	0.56
2:O:1314:GLN:HA	4:Q:28:ARG:HH22	1.65	0.56
2:O:289:VAL:HG12	2:O:319:LEU:HD22	1.86	0.56
3:P:227:PHE:CE1	3:P:232:ASN:O	2.59	0.56
1:A:109:PRO:HB3	1:A:132:HIS:HD2	1.67	0.56
1:A:8:PHE:HZ	1:B:52:PRO:HG3	1.71	0.56
2:C:1296:ASP:HB2	2:C:1321:GLU:H	1.70	0.56
2:C:886:LYS:HD2	2:C:916:SER:HB2	1.86	0.56
3:D:115:TRP:O	3:D:119:SER:HB3	2.06	0.56
3:D:643:ASP:O	3:D:722:ILE:CD1	2.53	0.56
4:E:59:ILE:HD12	4:E:64:LEU:HD21	1.86	0.56
2:I:213:LEU:O	2:I:214:ASN:HB3	2.06	0.56
3:J:1165:PHE:HE1	3:J:1199:PHE:O	1.89	0.56
2:O:1070:HIS:NE2	2:O:1114:GLU:OE1	2.38	0.56
2:O:1333:LEU:CB	2:O:1335:ILE:HD12	2.34	0.56
2:O:539:THR:H	2:O:542:ARG:HB3	1.70	0.56
3:P:816:THR:CG2	3:P:818:GLU:H	2.19	0.56
3:P:261:ALA:O	5:R:507:MET:HE2	2.06	0.56
2:C:92:TYR:HB3	2:C:137:VAL:HB	1.88	0.55
3:D:263:SER:HA	5:F:507:MET:HB3	1.88	0.55
5:F:105:MET:HE1	6:1:42:DG:C8	2.41	0.55
2:I:671:LEU:HD23	2:I:1186:VAL:HG13	1.85	0.55
2:I:1326:LEU:CD1	2:I:1330:ILE:HD11	2.36	0.55
2:I:15:PHE:HB3	2:I:17:LYS:HZ2	1.67	0.55
2:I:353:VAL:O	2:I:355:PRO:HD3	2.05	0.55
2:I:10:ARG:HH12	2:I:790:ASP:CG	2.10	0.55
3:J:154:LEU:HD22	3:J:158:GLN:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:835:LEU:CD1	3:J:839:VAL:HG21	2.35	0.55
3:J:885:VAL:HG12	3:J:886:VAL:CA	2.35	0.55
5:L:450:ILE:HG13	5:L:450:ILE:O	2.05	0.55
5:L:584:ARG:O	5:L:587:ILE:HG12	2.05	0.55
2:O:818:VAL:HG11	2:O:1076:ILE:HG23	1.89	0.55
2:O:944:ARG:O	2:O:947:GLU:HG2	2.07	0.55
3:P:430:HIS:N	3:P:430:HIS:ND1	2.54	0.55
3:P:682:VAL:HG13	3:P:686:TRP:HE1	1.71	0.55
5:R:574:GLU:OE2	5:R:584:ARG:HD2	2.06	0.55
1:A:38:THR:HB	1:A:39:LEU:CD2	2.36	0.55
1:B:28:LEU:HD13	1:B:29:GLU:N	2.21	0.55
2:C:335:THR:HG22	2:C:336:LEU:N	2.21	0.55
2:C:816:ILE:CG2	2:C:818:VAL:HG12	2.36	0.55
2:I:1272:GLU:HB3	2:I:1276:TRP:CH2	2.41	0.55
2:I:1272:GLU:HB3	2:I:1276:TRP:CZ2	2.41	0.55
2:I:38:PHE:CE1	2:I:461:GLU:CA	2.81	0.55
2:I:753:LEU:HB3	2:I:755:LYS:HE2	1.88	0.55
3:J:115:TRP:HZ3	3:J:1332:LEU:HB2	1.71	0.55
3:J:370:LYS:HA	3:J:441:LEU:HD22	1.88	0.55
3:J:467:ALA:C	3:J:468:VAL:CG2	2.74	0.55
3:J:536:LEU:CD2	3:J:541:LEU:CB	2.80	0.55
3:J:835:LEU:HD12	3:J:839:VAL:HG21	1.87	0.55
1:M:185:TYR:CD2	1:M:185:TYR:O	2.59	0.55
2:O:349:GLU:O	2:O:353:VAL:HG23	2.06	0.55
2:O:715:THR:HG22	2:O:786:GLY:H	1.70	0.55
3:P:1056:LEU:HD13	3:P:1109:LEU:CD2	2.36	0.55
3:P:245:LEU:HG	3:P:246:PRO:O	2.06	0.55
3:P:530:PRO:HB2	3:P:581:MET:CG	2.36	0.55
3:P:288:PRO:HG2	5:R:380:VAL:HG11	1.87	0.55
7:8:48:DA:H2"	7:8:49:DA:H5"	1.88	0.55
1:A:227:GLN:C	1:A:231:PHE:CZ	2.77	0.55
2:C:1225:VAL:CG1	2:C:1226:THR:N	2.69	0.55
3:D:891:ASP:N	3:D:891:ASP:OD1	2.38	0.55
2:I:1274:GLU:OE1	2:I:1274:GLU:N	2.39	0.55
2:I:868:SER:HB2	2:I:870:ILE:HG12	1.86	0.55
3:J:1044:GLN:HA	3:J:1068:THR:OG1	2.06	0.55
3:J:1165:PHE:HZ	3:J:1196:LEU:CD1	2.19	0.55
3:J:234:PRO:O	3:J:237:MET:CG	2.54	0.55
2:I:1289:GLU:OE2	3:J:473:THR:N	2.40	0.55
3:J:555:TYR:HA	3:J:564:VAL:O	2.06	0.55
3:P:268:LEU:HD13	3:P:306:LEU:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1:42:DG:OP1	6:1:43:DT:OP1	2.24	0.55
1:B:79:LEU:HA	1:B:82:LEU:HD12	1.87	0.55
2:C:557:ARG:HH22	2:C:608:ALA:HA	1.71	0.55
2:C:521:LEU:HD22	2:C:686:GLN:HB3	1.81	0.55
1:H:102:LEU:CB	1:H:115:ILE:HD13	2.36	0.55
2:I:528:ARG:NH2	2:I:575:LEU:HD23	2.21	0.55
3:J:205:LEU:HD21	3:J:214:ARG:HG3	1.88	0.55
3:J:70:CYS:HB3	3:J:92:VAL:CG2	2.32	0.55
1:N:13:LEU:CD1	1:N:26:VAL:HG13	2.36	0.55
2:O:1104:PRO:CG	3:P:725:MET:HE3	2.35	0.55
3:D:334:LYS:NZ	7:2:13:DA:P	2.80	0.55
7:5:25:DA:H1'	7:5:26:DT:H5''	1.89	0.55
2:C:1281:TYR:OH	3:D:432:LEU:HD23	2.05	0.55
2:C:543:ALA:HB3	2:C:548:ARG:HH21	1.71	0.55
1:H:39:LEU:O	1:H:43:LEU:CD1	2.54	0.55
2:I:1008:GLN:OE1	2:I:1011:LEU:HD23	2.07	0.55
2:I:1098:LEU:HD23	2:I:1099:ASN:H	1.71	0.55
2:I:689:ALA:HB1	2:I:1233:LEU:HD22	1.88	0.55
2:O:122:VAL:HG21	2:O:493:ILE:HD12	1.88	0.55
3:P:1231:ARG:O	3:P:1234:VAL:HB	2.07	0.55
7:2:35:DT:H2''	7:2:36:DG:OP2	2.07	0.55
6:4:49:DG:H5'	6:4:50:DT:OP2	2.07	0.55
6:7:54:DA:H2''	6:7:55:DC:C5'	2.37	0.55
1:A:44:ARG:HG3	1:A:183:ILE:HG23	1.88	0.55
1:A:51:MET:CE	1:A:211:ILE:HG13	2.37	0.55
1:B:43:LEU:C	1:B:47:LEU:HD12	2.27	0.55
2:C:402:ARG:HG2	2:C:416:GLY:N	2.21	0.55
5:F:565:ILE:O	5:F:567:MET:HG2	2.07	0.55
5:F:561:MET:HE3	5:F:567:MET:SD	2.47	0.55
3:J:766:GLY:C	3:J:767:LEU:HD23	2.26	0.55
2:O:1230:MET:HG2	2:O:1231:TYR:N	2.20	0.55
2:O:943:LYS:HG3	2:O:944:ARG:N	2.21	0.55
3:P:1155:ILE:HG22	3:P:1156:LEU:N	2.22	0.55
3:P:544:LEU:CD2	3:P:578:ILE:CD1	2.85	0.55
6:1:47:DC:H6	6:1:47:DC:C5'	2.19	0.55
2:C:209:ILE:CG2	2:C:210:LEU:N	2.67	0.55
2:C:551:HIS:CB	2:C:554:HIS:CE1	2.90	0.55
2:C:617:ALA:CB	2:C:636:CYS:SG	2.95	0.55
3:D:276:ASN:O	3:D:279:LEU:HB3	2.07	0.55
3:D:799:ARG:HB3	3:D:1309:ILE:HG21	1.88	0.55
5:F:400:GLN:HG2	5:F:401:PHE:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:195:ARG:NH2	4:Q:66:VAL:HG23	2.22	0.55
2:I:1315:MET:HG3	2:I:1317:PRO:HD3	1.88	0.55
2:I:226:GLU:OE2	2:I:343:HIS:CD2	2.59	0.55
2:I:228:VAL:HG21	2:I:337:PHE:HD1	1.72	0.55
2:I:208:ILE:HG12	2:I:362:ALA:HB1	1.88	0.55
2:I:886:LYS:HD2	2:I:916:SER:CB	2.34	0.55
3:J:1023:HIS:O	3:J:1024:THR:CB	2.54	0.55
3:J:262:THR:C	5:L:507:MET:HB2	2.27	0.55
3:J:421:VAL:CG1	3:J:470:VAL:HA	2.34	0.55
3:J:70:CYS:HB2	3:J:90:VAL:HG11	1.86	0.55
3:J:730:ALA:O	3:J:731:ARG:HB2	2.07	0.55
3:P:1240:VAL:O	3:P:1243:LEU:HB3	2.06	0.55
3:P:809:VAL:HB	3:P:912:GLY:H	1.70	0.55
5:F:437:GLN:HG2	6:1:35:DC:N4	2.21	0.55
1:A:92:VAL:HG11	1:A:95:LYS:O	2.07	0.55
2:C:1246:ARG:HH21	2:C:1249:GLY:H	1.54	0.55
2:C:674:ASP:O	3:D:772:TYR:OH	2.17	0.55
3:D:1101:LEU:HD21	3:D:1122:ALA:HB3	1.89	0.55
3:D:1256:ILE:O	3:D:1260:MET:HE2	2.06	0.55
3:D:234:PRO:O	3:D:237:MET:CG	2.54	0.55
3:D:378:LYS:HG2	3:D:382:TYR:HE2	1.71	0.55
5:F:580:PHE:O	5:F:581:ASP:CB	2.55	0.55
2:I:32:LEU:HD23	2:I:130:MET:HE3	1.87	0.55
2:I:708:VAL:HG11	2:I:794:LEU:HD22	1.89	0.55
3:J:649:LYS:O	3:J:653:ILE:HG13	2.07	0.55
3:J:496:GLY:CA	3:J:903:LEU:HD22	2.20	0.55
5:L:391:ALA:O	5:L:395:THR:HG23	2.06	0.55
5:L:580:PHE:O	5:L:581:ASP:HB2	2.05	0.55
2:O:1324:ASN:O	2:O:1327:LEU:HB2	2.06	0.55
5:R:167:ASP:N	5:R:168:PRO:HD3	2.22	0.55
5:F:110:LEU:HD23	6:1:41:DT:C2	2.41	0.55
1:A:208:ASN:ND2	1:A:208:ASN:H	2.04	0.55
2:C:720:ARG:HD2	2:C:736:VAL:HG21	1.89	0.55
2:C:805:MET:HB2	2:C:806:PRO:HD2	1.89	0.55
3:D:245:LEU:HD21	3:D:249:LEU:HB2	1.89	0.55
5:F:449:THR:HG1	5:F:504:PRO:HG3	1.71	0.55
1:G:232:VAL:HG11	1:H:218:ARG:O	2.07	0.55
2:I:878:THR:CG2	2:I:879:GLY:N	2.68	0.55
3:J:1265:THR:OG1	3:J:1305:ASP:OD1	2.24	0.55
2:O:746:ALA:HB2	2:O:971:LEU:HD13	1.89	0.55
2:O:896:THR:HG23	2:O:898:GLU:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:403:ARG:O	3:P:404:GLU:CB	2.55	0.55
3:P:803:VAL:CG2	3:P:1309:ILE:HG23	2.36	0.55
2:C:1170:MET:O	2:C:1173:ALA:HB3	2.07	0.55
2:C:267:ARG:HD3	2:C:268:ARG:N	2.22	0.55
3:D:707:ILE:O	3:D:713:GLU:HG2	2.07	0.55
3:D:739:GLN:O	3:D:763:PHE:HD2	1.90	0.55
3:D:759:ILE:HD13	3:D:767:LEU:HD13	1.87	0.55
2:I:765:ILE:HG22	2:I:765:ILE:O	2.06	0.55
2:I:1340:GLU:HB2	3:J:19:ALA:O	2.06	0.55
3:J:944:ALA:O	3:J:946:ALA:N	2.39	0.55
1:N:90:VAL:HG11	1:N:146:VAL:HG11	1.89	0.55
2:O:698:PRO:HG3	2:O:1231:TYR:CZ	2.42	0.55
2:O:184:LEU:HD11	2:O:389:PHE:CE2	2.41	0.55
2:O:761:GLN:O	2:O:762:ASN:HB2	2.07	0.55
3:P:825:VAL:HG22	3:P:838:ARG:HH11	1.72	0.55
5:R:136:GLU:OE2	5:R:249:ILE:HG23	2.07	0.55
5:R:323:ASN:CG	5:R:324:LYS:N	2.59	0.55
5:R:345:GLN:O	5:R:348:GLU:HB2	2.06	0.55
7:2:23:DT:C3'	7:2:24:DT:H5''	2.29	0.54
2:C:1272:GLU:OE1	3:D:798:ARG:HD2	2.07	0.54
2:C:1293:VAL:HG12	2:C:1300:GLY:C	2.27	0.54
5:F:492:ASP:OD1	5:F:492:ASP:N	2.40	0.54
1:G:11:PRO:HB3	1:G:31:LEU:CD2	2.37	0.54
3:J:680:ASN:OD1	3:J:1023:HIS:NE2	2.40	0.54
3:J:1154:ALA:HA	3:J:1211:SER:HB2	1.89	0.54
3:J:598:LYS:CA	3:J:601:ILE:HD12	2.26	0.54
3:J:643:ASP:OD2	3:J:721:SER:OG	2.25	0.54
2:O:1284:ALA:O	3:P:1356:LEU:CD2	2.55	0.54
3:P:253:VAL:CB	3:P:254:PRO:HD3	2.37	0.54
3:P:67:ASP:OD1	3:P:95:THR:N	2.28	0.54
1:B:59:VAL:HG22	1:B:144:ILE:HG23	1.88	0.54
5:F:503:GLU:CB	5:F:504:PRO:HD2	2.37	0.54
3:J:1059:LEU:HB2	3:J:1107:VAL:HB	1.87	0.54
3:J:237:MET:C	3:J:238:ILE:HD13	2.27	0.54
5:L:132:CYS:O	5:L:136:GLU:HG2	2.07	0.54
1:M:179:PRO:HA	1:M:208:ASN:HD21	1.72	0.54
2:O:13:LYS:HB2	2:O:1149:TYR:HE1	1.70	0.54
2:O:220:ILE:HA	2:O:223:LEU:HD12	1.88	0.54
2:O:7:GLU:HG2	2:O:706:ARG:NH1	2.23	0.54
3:P:1216:ALA:O	3:P:1220:ILE:HG13	2.07	0.54
3:P:141:PHE:CE2	3:P:181:GLY:HA3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:84:LEU:HG	5:R:107:THR:CG2	2.37	0.54
5:R:423:ARG:HB3	5:R:425:TYR:CD2	2.42	0.54
7:5:50:DG:H2"	7:5:51:DT:OP2	2.06	0.54
1:A:227:GLN:NE2	1:B:9:LEU:O	2.38	0.54
2:C:229:ILE:HG12	2:C:334:GLU:HG2	1.89	0.54
3:D:1061:VAL:O	3:D:1104:LYS:HA	2.08	0.54
3:D:318:GLY:CA	3:D:324:LEU:HD21	2.35	0.54
3:D:44:ILE:CD1	3:D:44:ILE:C	2.75	0.54
3:D:569:LEU:N	3:D:569:LEU:HD13	2.22	0.54
3:D:643:ASP:OD2	3:D:721:SER:OG	2.24	0.54
2:I:228:VAL:HG21	2:I:337:PHE:CD1	2.42	0.54
2:I:316:GLU:CG	2:I:352:ARG:HH22	2.20	0.54
2:I:58:PRO:HB3	2:I:69:GLN:HA	1.89	0.54
1:N:104:LYS:HG3	1:N:105:SER:N	2.23	0.54
2:O:551:HIS:H	2:O:554:HIS:CE1	2.25	0.54
3:P:259:ARG:CD	5:R:502:LYS:HG2	2.37	0.54
2:O:1308:ILE:HG21	3:P:379:PRO:HB2	1.89	0.54
5:R:456:MET:O	5:R:459:THR:OG1	2.25	0.54
5:R:583:THR:CG2	5:R:586:ARG:CB	2.80	0.54
5:R:583:THR:HG21	5:R:586:ARG:CB	2.37	0.54
6:7:42:DG:OP1	6:7:43:DT:OP1	2.24	0.54
1:A:51:MET:HE2	1:A:211:ILE:HG13	1.89	0.54
2:C:1269:ARG:NH1	3:D:340:GLN:HG3	2.21	0.54
2:C:1296:ASP:O	2:C:1321:GLU:CG	2.53	0.54
2:C:364:VAL:HG12	2:C:365:GLU:N	2.23	0.54
2:C:596:ASP:N	2:C:596:ASP:OD1	2.36	0.54
3:D:517:CYS:HB2	3:D:719:PHE:CZ	2.30	0.54
1:H:85:LEU:HD21	1:H:130:ILE:HG21	1.84	0.54
2:I:1073:LYS:CD	3:J:462:ASP:HB2	2.38	0.54
2:I:1275:VAL:HG12	2:I:1279:GLU:CD	2.27	0.54
2:I:217:THR:CA	2:I:220:ILE:HD12	2.27	0.54
2:O:61:SER:OG	2:O:479:LEU:HB3	2.08	0.54
4:Q:10:VAL:HG22	4:Q:19:LEU:CD2	2.38	0.54
3:P:322:ARG:NE	5:R:510:PRO:HD3	2.10	0.54
2:I:542:ARG:HH12	6:4:50:DT:H71	1.73	0.54
6:4:53:DG:H2"	6:4:54:DA:C8	2.42	0.54
1:A:85:LEU:CD2	1:A:130:ILE:HG23	2.37	0.54
2:C:1320:PRO:O	2:C:1323:PHE:HB3	2.07	0.54
2:C:672:GLU:H	2:C:672:GLU:CD	2.10	0.54
3:D:452:LEU:HB3	3:D:500:ILE:CG2	2.38	0.54
3:D:475:GLU:HA	3:D:478:LEU:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:863:LEU:HD13	3:D:908:ILE:HG12	1.89	0.54
3:J:373:ALA:HA	3:J:376:LEU:CG	2.36	0.54
5:L:585:GLU:HG3	7:5:47:DC:C4	2.42	0.54
5:L:555:GLU:OE2	5:L:590:ILE:HG23	2.08	0.54
1:N:61:ILE:HD12	1:N:64:VAL:HG12	1.88	0.54
2:O:96:LEU:HB2	2:O:127:ILE:HD11	1.88	0.54
2:O:15:PHE:CE2	2:O:1182:ILE:CD1	2.79	0.54
3:P:806:ASP:O	3:P:808:VAL:CG2	2.55	0.54
5:R:458:GLU:O	5:R:462:LYS:HG3	2.08	0.54
5:R:476:ARG:HG3	5:R:477:GLU:N	2.21	0.54
3:P:259:ARG:NH1	5:R:502:LYS:HG2	2.21	0.54
3:P:394:ILE:CD1	5:R:539:SER:HB2	2.38	0.54
1:A:81:ILE:HG22	1:A:85:LEU:HD11	1.88	0.54
1:B:124:VAL:HG21	1:B:210:THR:HG23	1.88	0.54
2:C:301:TYR:HB2	2:C:311:CYS:SG	2.47	0.54
2:C:741:MET:SD	2:C:747:GLY:CA	2.94	0.54
3:D:1253:ILE:HA	3:D:1256:ILE:HD11	1.90	0.54
3:D:205:LEU:HD22	3:D:214:ARG:HG3	1.88	0.54
3:D:349:TYR:CD2	3:D:472:LEU:HD11	2.43	0.54
3:D:394:ILE:O	3:D:398:LYS:HG3	2.07	0.54
3:D:424:ASN:O	3:D:466:MET:HE2	2.07	0.54
3:J:253:VAL:HB	3:J:254:PRO:CD	2.37	0.54
3:J:849:LEU:HD22	3:J:856:ILE:C	2.27	0.54
3:J:880:VAL:HG12	3:J:881:LYS:N	2.23	0.54
5:L:84:LEU:HG	5:L:107:THR:CG2	2.38	0.54
2:O:149:LEU:HD11	2:O:451:ARG:HB3	1.90	0.54
2:O:667:LEU:HD22	2:O:705:GLU:OE2	2.08	0.54
2:C:1103:VAL:HG22	2:C:1111:GLN:NE2	2.23	0.54
2:C:1106:ARG:O	2:C:1107:MET:HB2	2.07	0.54
2:C:1185:PRO:HB2	2:C:1188:ASP:HB3	1.90	0.54
3:D:350:SER:HB3	3:D:469:HIS:NE2	2.22	0.54
1:G:85:LEU:HD21	1:G:130:ILE:HG23	1.88	0.54
2:I:1315:MET:HA	2:I:1315:MET:CE	2.37	0.54
3:J:219:LYS:HG2	3:J:222:LYS:CE	2.38	0.54
1:M:15:ASP:HB3	1:M:27:THR:OG1	2.08	0.54
3:P:1319:PHE:CZ	3:P:1342:ASP:HB2	2.42	0.54
3:P:139:LEU:CD2	3:P:182:ALA:HA	2.35	0.54
4:Q:18:ASP:O	4:Q:22:VAL:HG23	2.07	0.54
5:R:139:GLU:O	5:R:143:TYR:HD1	1.89	0.54
6:4:42:DG:OP1	6:4:43:DT:OP1	2.26	0.54
1:A:67:GLU:O	1:A:78:ILE:HD12	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:403:MET:CE	2:C:586:PHE:HE2	2.21	0.54
3:D:807:LEU:HD13	3:D:1259:GLN:NE2	2.23	0.54
3:D:933:ARG:HH11	3:D:937:ILE:CD1	2.20	0.54
3:D:614:LEU:HD23	4:E:7:GLN:HB2	1.88	0.54
5:F:399:LEU:HD13	5:F:403:ASP:CB	2.36	0.54
3:J:531:LYS:H	3:J:531:LYS:HD2	1.72	0.54
3:J:955:LYS:HG2	3:J:956:GLY:H	1.71	0.54
5:L:443:ILE:CG2	5:L:444:ALA:N	2.70	0.54
2:O:1161:LEU:O	2:O:1163:THR:N	2.41	0.54
2:O:1235:LEU:HD23	2:O:1235:LEU:N	2.23	0.54
2:O:1322:SER:C	2:O:1325:VAL:HB	2.27	0.54
2:O:478:ARG:HH11	2:O:492:MET:HA	1.72	0.54
2:O:897:PRO:C	5:R:565:ILE:HD11	2.28	0.54
3:P:378:LYS:HA	3:P:381:ILE:HD12	1.90	0.54
3:P:604:MET:HE2	3:P:605:LEU:CD2	2.37	0.54
3:P:839:VAL:O	3:P:839:VAL:HG12	2.08	0.54
5:R:295:CYS:SG	5:R:330:LEU:CD1	2.95	0.54
7:2:27:DA:H2''	7:2:28:DG:C5'	2.37	0.54
6:7:49:DG:H3'	6:7:50:DT:H5''	1.88	0.54
1:A:224:LEU:HD12	1:A:228:LEU:HD11	1.77	0.54
1:A:48:LEU:HD21	1:A:180:VAL:O	2.08	0.54
1:B:201:LEU:CG	1:B:203:ILE:HD11	2.35	0.54
3:D:111:THR:HG23	3:D:300:GLN:HG3	1.90	0.54
3:D:518:VAL:O	3:D:520:ALA:N	2.41	0.54
3:D:835:LEU:HD11	3:D:839:VAL:HG21	1.90	0.54
2:I:1005:GLU:CG	2:I:1006:GLU:H	2.18	0.54
2:I:82:VAL:CG2	2:I:83:GLN:N	2.70	0.54
3:J:625:MET:HG2	3:J:629:PHE:HE2	1.71	0.54
2:I:808:ASN:HA	3:J:629:PHE:HB3	1.89	0.54
1:N:193:GLU:O	1:N:194:GLN:HB2	2.07	0.54
2:O:1064:ASP:OD1	2:O:1239:VAL:HG12	2.08	0.54
2:O:232:ILE:O	2:O:331:LYS:HD3	2.08	0.54
2:O:505:PHE:O	2:O:509:SER:HB3	2.08	0.54
2:O:800:MET:HB2	2:O:1096:ILE:HD12	1.90	0.54
3:P:1256:ILE:O	3:P:1260:MET:HG3	2.07	0.54
3:P:1364:ALA:HA	3:P:1367:GLN:HE21	1.73	0.54
3:P:652:GLU:O	3:P:656:GLU:HG3	2.07	0.54
4:Q:54:ILE:HG13	4:Q:59:ILE:HB	1.89	0.54
6:1:50:DT:O3'	6:1:51:DC:O4'	2.26	0.54
7:2:25:DA:H1'	7:2:26:DT:H5''	1.89	0.54
6:7:27:DC:H2''	6:7:28:DA:OP2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:54:DA:H1'	6:7:55:DC:C5'	2.38	0.54
3:D:262:THR:O	5:F:507:MET:N	2.37	0.54
2:I:1004:ASP:OD1	2:I:1008:GLN:HB2	2.08	0.54
2:I:1008:GLN:HG3	2:I:1008:GLN:O	2.05	0.54
2:I:521:LEU:HD12	2:I:521:LEU:O	2.08	0.54
2:I:699:LEU:HD23	2:I:699:LEU:N	2.22	0.54
3:J:205:LEU:CD2	3:J:214:ARG:HG3	2.38	0.54
3:J:501:VAL:HG13	3:J:502:PRO:CD	2.37	0.54
5:L:460:ILE:O	5:L:463:LEU:HB2	2.08	0.54
3:P:1133:ASP:H	3:P:1244:GLN:NE2	2.06	0.54
3:P:297:ARG:CD	5:R:100:MET:SD	2.92	0.54
5:R:235:ILE:O	5:R:239:GLY:O	2.25	0.54
5:R:381:GLU:HA	5:R:384:LEU:HD21	1.90	0.54
2:C:1210:ILE:HG22	2:C:1212:LEU:CD2	2.36	0.53
1:A:41:ASN:HD22	2:C:1218:GLY:CA	2.19	0.53
3:D:875:ASN:O	3:D:876:SER:HB2	2.08	0.53
3:D:930:LEU:HB2	3:D:1134:ILE:CD1	2.28	0.53
5:F:456:MET:O	5:F:460:ILE:HG13	2.07	0.53
2:I:335:THR:CG2	2:I:336:LEU:N	2.70	0.53
2:I:593:LYS:NZ	2:I:595:THR:HG1	2.00	0.53
2:I:788:SER:OG	2:I:796:LEU:HA	2.08	0.53
3:J:510:LEU:O	3:J:514:THR:HG23	2.08	0.53
3:J:635:SER:OG	3:J:636:GLY:N	2.41	0.53
3:J:814:CYS:HG	3:J:816:THR:HG1	1.56	0.53
3:J:809:VAL:CG2	3:J:909:ILE:HD13	2.34	0.53
2:O:1324:ASN:O	2:O:1328:LYS:HG2	2.08	0.53
3:P:306:LEU:O	3:P:326:SER:HB2	2.08	0.53
5:R:411:GLY:CA	5:R:438:ALA:HB2	2.38	0.53
7:2:23:DT:H3'	7:2:24:DT:C5'	2.29	0.53
7:5:19:DA:H2'	7:5:20:DG:O4'	2.08	0.53
2:C:1253:LEU:HB2	5:F:523:ILE:HB	1.90	0.53
2:I:558:VAL:HG13	2:I:559:CYS:N	2.22	0.53
3:J:34:SER:OG	3:J:104:HIS:ND1	2.02	0.53
3:J:185:ILE:O	3:J:189:LEU:CD1	2.56	0.53
3:J:612:LEU:HD13	3:J:616:PRO:HB3	1.91	0.53
1:M:208:ASN:C	1:M:210:THR:H	2.10	0.53
1:N:92:VAL:HG13	1:N:121:VAL:HG22	1.89	0.53
3:P:107:LEU:HG	3:P:240:THR:O	2.08	0.53
3:P:968:ASN:CB	3:P:1117:SER:O	2.56	0.53
3:P:517:CYS:HB3	3:P:545:HIS:CB	2.38	0.53
4:Q:59:ILE:HD12	4:Q:64:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:50:DT:O3'	6:4:51:DC:O4'	2.27	0.53
1:A:187:VAL:HG13	1:A:199:ASP:OD2	2.07	0.53
1:A:67:GLU:O	1:A:78:ILE:HB	2.08	0.53
1:B:38:THR:C	1:B:39:LEU:HD23	2.26	0.53
2:C:251:ALA:HB2	2:C:263:VAL:HG11	1.90	0.53
5:F:595:LEU:O	5:F:599:ARG:HG3	2.08	0.53
2:I:1327:LEU:CA	2:I:1330:ILE:HD12	2.37	0.53
2:I:36:GLN:HA	2:I:39:ILE:HD12	1.89	0.53
3:J:115:TRP:CZ3	3:J:1329:THR:O	2.61	0.53
2:I:1077:SER:HA	3:J:356:THR:CG2	2.38	0.53
3:J:573:THR:OG1	3:J:575:GLY:N	2.41	0.53
3:J:871:LEU:O	3:J:875:ASN:ND2	2.42	0.53
1:M:35:PHE:O	1:M:39:LEU:HG	2.08	0.53
2:O:1314:GLN:NE2	2:O:1316:GLU:HG3	2.23	0.53
2:O:764:CYS:O	2:O:764:CYS:SG	2.65	0.53
3:P:1176:VAL:HG22	3:P:1187:GLU:HG2	1.89	0.53
3:P:366:CYS:SG	3:P:439:PRO:HA	2.48	0.53
2:C:807:TRP:CG	2:C:817:LEU:HD11	2.43	0.53
3:D:1133:ASP:OD1	3:D:1134:ILE:N	2.33	0.53
3:D:490:ILE:HA	3:D:500:ILE:HD12	1.88	0.53
5:F:117:ILE:HG23	5:F:421:TYR:CB	2.34	0.53
1:G:185:TYR:CD2	1:G:185:TYR:O	2.62	0.53
2:I:557:ARG:HB3	2:I:587:LEU:HD12	1.89	0.53
3:J:146:VAL:CG2	3:J:158:GLN:HB2	2.39	0.53
3:J:219:LYS:HG2	3:J:222:LYS:HD2	1.90	0.53
3:J:255:LEU:HD13	3:J:256:ASP:N	2.24	0.53
3:J:306:LEU:O	3:J:326:SER:HB2	2.07	0.53
3:J:607:THR:O	3:J:611:ILE:HG13	2.08	0.53
1:N:77:ASP:O	1:N:81:ILE:HG13	2.08	0.53
2:O:819:SER:HA	2:O:1085:MET:SD	2.49	0.53
3:P:1046:ILE:HD12	3:P:1059:LEU:HD22	1.91	0.53
3:P:273:ILE:HG22	3:P:277:ASN:HD21	1.73	0.53
6:7:42:DG:P	6:7:42:DG:H3'	2.48	0.53
2:C:1253:LEU:HD13	5:F:523:ILE:HG22	1.90	0.53
1:G:47:LEU:HD12	1:G:183:ILE:CD1	2.33	0.53
2:I:734:ILE:HG23	2:I:749:ASP:CB	2.38	0.53
2:I:845:LEU:N	2:I:845:LEU:HD23	2.24	0.53
3:P:318:GLY:N	3:P:322:ARG:O	2.35	0.53
4:Q:78:ALA:O	4:Q:81:GLN:HG2	2.08	0.53
1:A:44:ARG:HH12	2:C:1093:PRO:HG3	1.73	0.53
3:D:423:LEU:HD12	3:D:437:PHE:CE1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:546:ALA:O	3:D:548:VAL:HG23	2.09	0.53
3:D:641:ILE:O	3:D:644:MET:SD	2.67	0.53
5:F:540:LEU:O	5:F:544:THR:HG23	2.09	0.53
5:F:604:SER:O	5:F:608:ARG:N	2.41	0.53
2:I:1304:MET:HE3	2:I:1304:MET:C	2.29	0.53
2:I:716:ALA:HB3	2:I:784:ALA:HB3	1.91	0.53
2:I:870:ILE:HG13	2:I:944:ARG:CG	2.20	0.53
3:J:492:SER:HA	3:J:499:ILE:CD1	2.32	0.53
3:J:521:LYS:HB3	3:J:542:ALA:HA	1.90	0.53
3:J:755:ILE:HG21	3:J:774:ILE:HD13	1.90	0.53
1:M:88:LEU:HD21	1:M:112:ALA:CB	2.39	0.53
1:M:11:PRO:CB	1:N:231:PHE:HZ	2.19	0.53
1:N:64:VAL:CG2	1:N:71:LYS:HD2	2.38	0.53
2:O:34:SER:O	2:O:457:GLY:HA3	2.08	0.53
2:O:211:ARG:O	2:O:359:ARG:HA	2.08	0.53
2:O:557:ARG:HD3	2:O:587:LEU:CB	2.37	0.53
3:P:1040:MET:CE	3:P:1046:ILE:HG21	2.39	0.53
3:P:601:ILE:O	3:P:605:LEU:HG	2.09	0.53
3:P:902:ASP:HB2	3:P:909:ILE:HD12	1.90	0.53
3:P:262:THR:CA	5:R:507:MET:CE	2.75	0.53
5:L:437:GLN:CG	6:4:35:DC:N4	2.69	0.53
2:C:280:ASP:O	2:C:281:ASP:HB2	2.08	0.53
3:D:1274:PHE:O	3:D:1275:LEU:CB	2.47	0.53
3:D:478:LEU:HB3	4:E:20:VAL:HG13	1.91	0.53
5:F:598:LEU:O	5:F:604:SER:OG	2.21	0.53
2:I:1104:PRO:CG	3:J:725:MET:HE1	2.39	0.53
2:I:1184:THR:OG1	2:I:1190:ALA:N	2.41	0.53
2:I:1326:LEU:O	2:I:1330:ILE:CD1	2.57	0.53
2:I:22:LEU:HG	2:I:23:ASP:N	2.22	0.53
3:J:1280:VAL:HG12	3:J:1281:GLU:N	2.23	0.53
3:J:521:LYS:CB	3:J:542:ALA:HA	2.38	0.53
2:I:906:PHE:CE1	5:L:607:LEU:HB3	2.44	0.53
1:M:230:ALA:HB1	1:N:11:PRO:O	2.08	0.53
2:O:539:THR:CG2	2:O:540:ARG:N	2.70	0.53
3:P:742:GLY:O	3:P:762:ASN:HB3	2.08	0.53
5:R:260:ARG:HH12	5:R:422:ARG:NH2	2.07	0.53
7:5:12:DG:N2	7:5:13:DA:C4	2.77	0.53
1:B:133:LEU:HD22	1:B:138:ALA:HB3	1.85	0.53
1:B:32:GLU:HA	1:B:198:LEU:HD12	1.90	0.53
1:A:174:ASP:CG	2:C:1059:ARG:HH22	2.12	0.53
2:C:34:SER:OG	2:C:456:VAL:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:901:ARG:CD	3:D:903:LEU:HD23	2.38	0.53
1:G:232:VAL:CG1	1:H:218:ARG:O	2.56	0.53
2:I:1247:SER:O	3:J:348:ASP:HB3	2.07	0.53
2:I:230:PHE:CD1	2:I:292:ILE:HD11	2.43	0.53
2:I:551:HIS:ND1	2:I:553:THR:OG1	2.37	0.53
3:J:1158:GLU:HA	3:J:1223:LEU:CD1	2.39	0.53
3:J:214:ARG:NH2	3:J:215:LYS:HG2	2.23	0.53
2:O:1053:TYR:N	2:O:1053:TYR:CD2	2.76	0.53
2:O:146:VAL:HG13	2:O:529:ARG:O	2.08	0.53
2:O:890:LYS:HZ1	2:O:893:THR:CG2	2.20	0.53
3:P:1036:ARG:HD2	3:P:1081:VAL:HG11	1.91	0.53
3:P:1154:ALA:CA	3:P:1211:SER:HB2	2.38	0.53
3:P:262:THR:O	5:R:507:MET:CB	2.44	0.53
3:P:368:LEU:HD12	3:P:369:PRO:HD2	1.91	0.53
3:P:367:GLY:HA3	3:P:448:GLN:HB2	1.91	0.53
5:R:411:GLY:HA3	5:R:438:ALA:HB2	1.89	0.53
5:R:91:ILE:O	5:R:91:ILE:HG22	2.08	0.53
6:7:19:DA:C2	7:8:45:DG:C2	2.97	0.53
1:B:82:LEU:HD22	1:B:173:VAL:CG1	2.37	0.53
2:C:1122:LYS:HG3	2:C:1229:TYR:CE1	2.43	0.53
2:C:211:ARG:HH22	2:C:217:THR:HG1	1.55	0.53
2:C:539:THR:CG2	2:C:540:ARG:N	2.71	0.53
3:D:295:GLU:HA	3:D:295:GLU:OE1	2.09	0.53
3:D:610:ARG:HH12	3:D:840:LEU:HD21	1.74	0.53
3:D:653:ILE:CD1	3:D:693:VAL:HG22	2.39	0.53
5:F:355:ILE:HD12	5:F:355:ILE:H	1.74	0.53
1:G:42:ALA:HA	1:H:38:THR:CG2	2.39	0.53
2:I:1291:LEU:HD23	3:J:345:LYS:HE3	1.90	0.53
3:J:1176:VAL:HG13	3:J:1187:GLU:HG2	1.91	0.53
3:J:209:ASN:HB2	3:J:214:ARG:HD3	1.90	0.53
3:J:261:ALA:HB1	5:L:519:LEU:HD21	1.90	0.53
3:J:572:THR:OG1	3:J:573:THR:N	2.41	0.53
3:J:601:ILE:O	3:J:605:LEU:HD12	2.08	0.53
3:P:1364:ALA:O	3:P:1367:GLN:HG2	2.08	0.53
3:P:19:ALA:O	3:P:20:ILE:HG13	2.08	0.53
2:O:1268:GLN:CG	3:P:352:ARG:HD2	2.39	0.53
5:R:450:ILE:CD1	5:R:504:PRO:HD3	2.39	0.53
6:7:53:DG:C4	6:7:54:DA:C6	2.97	0.53
1:A:19:VAL:CG1	1:A:20:SER:N	2.71	0.53
2:C:1166:ASP:O	2:C:1169:VAL:HB	2.09	0.53
2:C:153:PRO:HB2	2:C:401:GLY:CA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:676:ALA:HA	2:C:679:ALA:HB3	1.89	0.53
3:D:135:ILE:O	3:D:139:LEU:HG	2.09	0.53
3:D:747:MET:CE	3:D:774:ILE:CG2	2.87	0.53
3:D:822:MET:HE3	3:D:838:ARG:HG2	1.90	0.53
5:F:480:PRO:HG2	5:F:495:ARG:HH21	1.73	0.53
2:I:1172:LEU:O	2:I:1176:LEU:HG	2.09	0.53
2:I:107:ARG:NH2	2:I:484:LEU:HD11	2.24	0.53
3:J:589:TYR:O	3:J:592:VAL:HG13	2.09	0.53
5:L:166:VAL:HG12	5:L:167:ASP:N	2.24	0.53
5:L:130:VAL:CG2	5:L:368:GLY:HA3	2.39	0.53
1:M:232:VAL:CG2	1:N:221:ALA:CB	2.85	0.53
1:M:232:VAL:HG22	1:N:221:ALA:HB3	1.91	0.53
2:O:811:ASN:ND2	2:O:1099:ASN:HA	2.23	0.53
2:O:160:ASP:HB3	2:O:163:LYS:HB2	1.90	0.53
2:O:948:ILE:O	2:O:951:MET:HB2	2.09	0.53
3:P:342:LEU:HD22	3:P:1352:ILE:O	2.09	0.53
3:P:28:ASP:HA	3:P:31:ARG:HD2	1.91	0.53
3:P:515:ARG:HH21	3:P:717:VAL:CG2	2.22	0.53
4:Q:54:ILE:HG12	4:Q:59:ILE:CG2	2.39	0.53
5:R:310:GLU:CB	5:R:355:ILE:HD13	2.36	0.53
6:4:44:DG:C2'	6:4:45:DT:O4'	2.57	0.52
6:4:48:DA:OP1	6:4:48:DA:H4'	2.09	0.52
6:7:49:DG:H5'	6:7:50:DT:OP2	2.09	0.52
1:B:193:GLU:O	1:B:194:GLN:HB2	2.08	0.52
2:C:670:PHE:CE2	2:C:1113:LEU:HB2	2.44	0.52
2:C:94:ALA:HB2	2:C:129:LEU:CD1	2.40	0.52
3:D:1179:PRO:CD	3:D:1184:ASP:O	2.54	0.52
3:D:544:LEU:HD22	3:D:578:ILE:HD12	1.91	0.52
1:G:232:VAL:CG1	1:H:221:ALA:HB3	2.39	0.52
2:I:15:PHE:CD2	2:I:1190:ALA:HB2	2.44	0.52
2:I:689:ALA:CB	2:I:1233:LEU:CD1	2.72	0.52
2:I:808:ASN:HD22	2:I:808:ASN:N	2.07	0.52
3:J:442:ILE:HG13	3:J:443:GLU:O	2.08	0.52
3:J:70:CYS:CB	3:J:90:VAL:HG11	2.39	0.52
4:K:59:ILE:HG23	4:K:64:LEU:HD21	1.89	0.52
1:M:112:ALA:O	1:M:115:ILE:HD13	2.01	0.52
2:O:1246:ARG:NH2	2:O:1258:PRO:HB3	2.24	0.52
2:O:292:ILE:HB	2:O:322:LEU:HD11	1.91	0.52
2:O:566:GLY:O	2:O:569:ILE:HG22	2.08	0.52
2:O:453:ILE:HG13	2:O:587:LEU:HD21	1.91	0.52
2:O:1268:GLN:HG2	3:P:352:ARG:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:511:TYR:HD1	3:P:596:LEU:O	1.91	0.52
2:C:1180:MET:CG	2:C:1181:PRO:HD2	2.35	0.52
2:C:672:GLU:CG	2:C:1187:PHE:HA	2.39	0.52
2:C:17:LYS:HZ2	2:C:1190:ALA:HA	1.72	0.52
2:C:155:VAL:HG22	2:C:405:PHE:CD2	2.45	0.52
3:D:364:HIS:CD2	3:D:364:HIS:H	2.26	0.52
3:D:497:GLU:CB	3:D:498:PRO:HD2	2.33	0.52
2:C:550:VAL:CG2	3:D:780:ARG:HD2	2.40	0.52
2:I:558:VAL:HG13	2:I:559:CYS:O	2.09	0.52
2:I:65:ASN:HA	2:I:105:TYR:HB2	1.91	0.52
3:J:621:ALA:HA	3:J:624:ILE:CD1	2.39	0.52
2:O:205:PRO:O	2:O:208:ILE:HG22	2.10	0.52
2:O:524:ILE:O	2:O:528:ARG:HG2	2.08	0.52
3:P:1155:ILE:CG2	3:P:1156:LEU:H	2.23	0.52
2:O:1288:GLN:HB2	3:P:1356:LEU:HD23	1.89	0.52
3:P:211:GLU:O	3:P:215:LYS:HG3	2.09	0.52
5:F:426:LYS:HB3	6:I:39:DA:OP2	2.09	0.52
1:A:159:ILE:HA	1:A:162:GLU:HB2	1.91	0.52
1:A:227:GLN:O	1:A:231:PHE:CE2	2.62	0.52
2:C:390:PHE:CD2	2:C:390:PHE:N	2.78	0.52
3:D:141:PHE:HA	3:D:180:MET:HG2	1.92	0.52
3:D:782:GLY:O	3:D:785:ASP:HB2	2.09	0.52
3:D:923:ILE:O	3:D:926:PRO:HD2	2.10	0.52
5:F:456:MET:O	5:F:459:THR:OG1	2.24	0.52
1:H:59:VAL:CG2	1:H:144:ILE:HG23	2.39	0.52
3:J:930:LEU:CB	3:J:1134:ILE:HD11	2.39	0.52
3:J:1200:GLU:CG	3:J:1201:GLY:H	2.19	0.52
3:J:34:SER:CB	3:J:104:HIS:HB3	2.39	0.52
3:J:367:GLY:O	3:J:447:ILE:HG22	2.09	0.52
3:J:909:ILE:CG1	3:J:910:ASN:N	2.68	0.52
1:N:189:ALA:HA	1:N:199:ASP:CB	2.40	0.52
2:O:812:PHE:O	2:O:1099:ASN:ND2	2.42	0.52
2:O:212:ALA:HB1	2:O:363:LEU:HD23	1.91	0.52
2:O:898:GLU:OE1	2:O:898:GLU:N	2.41	0.52
3:P:366:CYS:SG	3:P:437:PHE:CB	2.98	0.52
5:R:311:THR:HG22	5:R:345:GLN:HE21	1.74	0.52
3:D:791:ALA:HA	7:2:12:DG:H5'	1.92	0.52
2:C:626:GLU:HG3	2:C:626:GLU:O	2.08	0.52
2:C:616:ILE:HG23	2:C:653:MET:CA	2.39	0.52
1:H:43:LEU:C	1:H:47:LEU:CD1	2.68	0.52
1:H:68:TYR:CE1	1:H:79:LEU:CD2	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1184:THR:O	2:I:1184:THR:CG2	2.58	0.52
1:G:45:ARG:HH12	2:I:1216:ARG:HA	1.74	0.52
2:I:1257:GLN:CB	2:I:1258:PRO:HD2	2.37	0.52
3:J:270:ARG:HA	3:J:273:ILE:HD12	1.90	0.52
3:J:268:LEU:HB3	3:J:306:LEU:HD13	1.89	0.52
3:J:645:VAL:O	3:J:645:VAL:HG23	2.09	0.52
3:J:70:CYS:CB	3:J:90:VAL:HG12	2.39	0.52
3:J:826:ILE:HG22	3:J:826:ILE:O	2.09	0.52
3:J:975:ILE:HD12	3:J:997:VAL:HG11	1.92	0.52
5:L:216:LEU:CG	5:L:220:LYS:HE2	2.33	0.52
2:O:344:GLY:HA3	2:O:346:TYR:CZ	2.44	0.52
2:O:347:ILE:HD11	2:O:433:ILE:HD11	1.90	0.52
2:O:595:THR:HG22	2:O:596:ASP:OD1	2.10	0.52
2:O:595:THR:HG23	2:O:596:ASP:OD1	2.08	0.52
2:O:801:ARG:O	2:O:1094:VAL:HG12	2.10	0.52
3:P:26:SER:HB3	3:P:29:MET:HB2	1.91	0.52
3:P:47:ARG:NH1	5:R:496:LYS:HD3	2.25	0.52
5:R:459:THR:O	5:R:463:LEU:CD2	2.57	0.52
1:A:13:LEU:HD11	1:A:16:ILE:HG12	1.90	0.52
2:C:1064:ASP:OD1	2:C:1239:VAL:HG12	2.10	0.52
2:C:672:GLU:HG2	2:C:1187:PHE:HA	1.91	0.52
2:C:857:VAL:HG11	2:C:861:ALA:HB3	1.91	0.52
1:G:125:LYS:HG2	1:G:127:GLN:HG3	1.91	0.52
1:H:59:VAL:HG22	1:H:144:ILE:HG12	1.91	0.52
1:H:186:ASN:O	1:H:201:LEU:CD1	2.57	0.52
1:H:83:LEU:HD13	1:H:86:LYS:HD2	1.92	0.52
2:I:1112:ILE:HG22	3:J:641:ILE:CG1	2.39	0.52
2:I:1283:ALA:HB1	3:J:479:GLU:OE2	2.09	0.52
3:J:58:CYS:SG	3:J:60:ARG:HB3	2.50	0.52
1:N:57:THR:HG23	1:N:158:ARG:CZ	2.39	0.52
2:O:1324:ASN:OD1	2:O:1327:LEU:HD12	2.09	0.52
3:P:30:ILE:HA	3:P:33:TRP:CE3	2.45	0.52
3:P:363:LEU:HA	3:P:450:HIS:CE1	2.45	0.52
3:P:796:LEU:HG	3:P:800:LEU:HD11	1.91	0.52
6:1:48:DA:OP1	6:1:48:DA:H4'	2.10	0.52
3:D:102:MET:HE3	3:D:246:PRO:HD3	1.92	0.52
1:G:179:PRO:O	1:G:208:ASN:ND2	2.43	0.52
2:I:15:PHE:O	2:I:17:LYS:CE	2.58	0.52
2:I:653:MET:HG2	2:I:654:ASP:N	2.25	0.52
2:I:90:VAL:CG1	2:I:91:THR:N	2.72	0.52
3:J:796:LEU:O	3:J:800:LEU:HG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:273:ILE:HG22	3:P:277:ASN:ND2	2.24	0.52
3:P:653:ILE:HD13	3:P:693:VAL:HG22	1.90	0.52
3:P:826:ILE:HG23	3:P:831:VAL:CG2	2.37	0.52
5:R:423:ARG:HD3	6:7:37:DA:C2	2.45	0.52
6:4:49:DG:H3'	6:4:49:DG:C8	2.44	0.52
1:G:224:LEU:HD12	1:G:224:LEU:O	2.10	0.52
2:I:1066:MET:CE	2:I:1232:MET:HB3	2.40	0.52
2:I:763:THR:O	2:I:833:ILE:HD12	2.09	0.52
3:J:1090:ILE:HG23	3:J:1091:PRO:HD2	1.90	0.52
3:J:405:GLU:O	3:J:408:VAL:HB	2.08	0.52
3:J:478:LEU:HD11	4:K:24:ALA:HA	1.92	0.52
3:J:530:PRO:HD2	3:J:531:LYS:HD2	1.92	0.52
5:L:483:LEU:HD23	5:L:494:ILE:HG21	1.91	0.52
1:N:193:GLU:O	1:N:194:GLN:CB	2.57	0.52
2:O:1223:ARG:HD3	3:P:637:ALA:HA	1.90	0.52
3:P:97:VAL:HG11	3:P:101:ARG:NE	2.24	0.52
3:P:1253:ILE:HA	3:P:1256:ILE:HD12	1.91	0.52
1:A:208:ASN:ND2	1:A:208:ASN:N	2.58	0.52
1:A:32:GLU:HG2	1:A:33:ARG:N	2.25	0.52
1:B:230:ALA:HB3	1:B:231:PHE:CE2	2.45	0.52
1:B:38:THR:HB	1:B:39:LEU:HD21	1.86	0.52
2:C:1047:LEU:C	2:C:1048:LYS:HG3	2.30	0.52
2:C:94:ALA:HB2	2:C:129:LEU:HD11	1.92	0.52
2:C:403:MET:CE	2:C:407:ARG:HH22	2.22	0.52
2:I:1019:ASP:O	2:I:1022:LYS:HB3	2.10	0.52
3:J:1224:ARG:HB3	3:J:1228:ALA:HB3	1.91	0.52
5:L:453:PRO:O	5:L:456:MET:HB3	2.10	0.52
2:O:13:LYS:HB3	2:O:1182:ILE:HG12	1.91	0.52
2:O:976:ARG:O	2:O:980:VAL:HG23	2.10	0.52
3:P:1046:ILE:HD12	3:P:1059:LEU:HD13	1.92	0.52
3:P:111:THR:HG23	3:P:112:ALA:H	1.73	0.52
3:P:635:SER:OG	3:P:636:GLY:N	2.42	0.52
6:1:53:DG:C4	6:1:54:DA:C6	2.98	0.52
3:J:1326:GLN:NE2	7:5:10:DC:H4'	2.25	0.52
2:C:850:ILE:HD11	2:C:1048:LYS:CD	2.40	0.52
3:D:322:ARG:HB2	3:D:323:PRO:HD2	1.91	0.52
3:D:702:GLN:HG3	3:D:723:TYR:CZ	2.45	0.52
3:D:812:ASP:N	3:D:812:ASP:OD1	2.43	0.52
3:D:885:VAL:HG13	3:D:894:VAL:HG11	1.91	0.52
4:E:10:VAL:HG22	4:E:19:LEU:HD22	1.92	0.52
4:E:82:ALA:O	4:E:86:ILE:HG13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:488:LEU:O	5:F:488:LEU:HG	2.10	0.52
2:I:1147:ARG:NH2	2:I:1201:LEU:HD21	2.25	0.52
2:I:753:LEU:HD11	2:I:769:PRO:HG3	1.90	0.52
2:I:805:MET:O	2:I:811:ASN:ND2	2.43	0.52
2:I:964:LEU:HD13	2:I:1025:PHE:HB2	1.91	0.52
3:J:116:PHE:CE1	3:J:1333:THR:HG22	2.44	0.52
3:J:379:PRO:HG2	3:J:380:PHE:N	2.24	0.52
2:O:202:ARG:H	2:O:369:MET:CE	2.22	0.52
3:P:22:ILE:CD1	3:P:1319:PHE:CE1	2.76	0.52
3:P:433:GLY:O	3:P:457:TYR:HE1	1.92	0.52
3:P:826:ILE:HG12	3:P:831:VAL:HG22	1.92	0.52
7:5:31:DT:H2'	7:5:32:DA:OP2	2.10	0.52
7:5:45:DG:C2	7:5:46:DT:C2	2.98	0.52
1:A:105:SER:HA	1:A:139:SER:HB2	1.91	0.52
2:C:1176:LEU:HD23	2:C:1176:LEU:N	2.24	0.52
2:C:448:LEU:HD12	2:C:553:THR:O	2.10	0.52
3:D:113:HIS:HB3	3:D:116:PHE:CD2	2.45	0.52
3:D:363:LEU:CD2	3:D:487:THR:HG22	2.40	0.52
3:D:546:ALA:O	3:D:548:VAL:CG2	2.58	0.52
1:G:125:LYS:HG2	1:G:127:GLN:CG	2.40	0.52
2:I:1276:TRP:HB3	3:J:921:GLN:NE2	2.25	0.52
2:I:194:LEU:HD12	2:I:195:PHE:N	2.25	0.52
2:I:699:LEU:HG	2:I:799:ASN:OD1	2.09	0.52
2:I:893:THR:HG22	2:I:895:LEU:HG	1.92	0.52
2:I:898:GLU:CB	5:L:540:LEU:HD21	2.40	0.52
3:J:1226:VAL:O	3:J:1229:VAL:HG12	2.10	0.52
3:J:1248:ILE:HG22	3:J:1249:ASN:O	2.10	0.52
3:J:34:SER:HG	3:J:104:HIS:CG	2.16	0.52
3:J:424:ASN:C	3:J:466:MET:HE3	2.30	0.52
3:J:803:VAL:CG1	3:J:1259:GLN:HB3	2.39	0.52
3:J:826:ILE:HG23	3:J:830:ASP:C	2.30	0.52
2:O:800:MET:CB	2:O:1096:ILE:HD12	2.40	0.52
4:Q:50:ALA:HA	4:Q:53:GLU:OE1	2.10	0.52
5:R:302:PHE:HE1	5:R:315:TRP:CZ3	2.28	0.52
3:P:264:ASP:OD2	5:R:508:GLU:HG3	2.10	0.52
1:B:167:PRO:HD2	1:B:170:ARG:HB2	1.93	0.51
2:C:1124:ILE:O	2:C:1128:ILE:HD12	2.10	0.51
2:C:1141:LEU:O	2:C:1145:ILE:CD1	2.58	0.51
2:C:106:GLU:HG2	2:C:115:LYS:HD2	1.92	0.51
2:C:153:PRO:HA	2:C:177:ILE:O	2.10	0.51
2:C:839:VAL:HG23	2:C:886:LYS:NZ	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1251:LYS:O	3:D:1255:VAL:HG23	2.10	0.51
3:D:1357:ILE:HG23	3:D:1358:PRO:HD2	1.92	0.51
3:J:591:ILE:HG22	3:J:592:VAL:N	2.25	0.51
5:L:139:GLU:O	5:L:143:TYR:HD1	1.92	0.51
1:M:179:PRO:CA	1:M:208:ASN:ND2	2.73	0.51
2:O:698:PRO:HG3	2:O:1231:TYR:CE2	2.45	0.51
2:O:718:ALA:HB2	2:O:783:LEU:HD21	1.90	0.51
3:P:1311:LYS:HZ1	6:7:56:DG:H5''	1.73	0.51
3:P:879:ALA:C	3:P:880:VAL:HG22	2.31	0.51
1:B:166:ARG:HB2	1:B:166:ARG:CZ	2.38	0.51
1:B:88:LEU:HD22	1:B:128:HIS:HD2	1.71	0.51
2:C:149:LEU:HD13	2:C:453:ILE:CD1	2.40	0.51
3:D:965:SER:O	3:D:966:VAL:HB	2.10	0.51
5:F:573:LEU:N	7:2:45:DG:OP2	2.43	0.51
1:H:217:ILE:H	1:H:217:ILE:CD1	2.21	0.51
2:I:1119:MET:HE1	2:I:1208:GLY:O	2.11	0.51
2:I:699:LEU:HD11	2:I:799:ASN:CG	2.30	0.51
2:I:804:PHE:O	3:J:638:SER:CB	2.58	0.51
3:J:156:ARG:HH22	3:J:192:MET:HA	1.74	0.51
2:O:1120:ALA:HB2	2:O:1199:LEU:HD23	1.91	0.51
2:O:303:ASP:HB2	2:O:310:ILE:HG13	1.91	0.51
3:P:1162:ILE:CG1	3:P:1180:VAL:CG1	2.84	0.51
3:P:185:ILE:HG23	3:P:189:LEU:HD11	1.92	0.51
3:P:736:GLN:O	3:P:740:LEU:HG	2.09	0.51
5:R:130:VAL:HG13	5:R:365:MET:CG	2.40	0.51
5:R:260:ARG:HH12	5:R:422:ARG:HH22	1.57	0.51
3:D:458:ASN:ND2	8:3:17:C:O2'	2.42	0.51
6:7:55:DC:H2''	6:7:56:DG:C8	2.45	0.51
1:B:111:THR:OG1	1:B:126:PRO:O	2.28	0.51
1:B:142:MET:HG2	1:B:143:ARG:N	2.26	0.51
2:C:1010:GLN:HA	2:C:1013:GLN:HG3	1.92	0.51
2:C:452:ARG:NH1	2:C:454:ARG:CG	2.73	0.51
5:F:105:MET:SD	5:F:385:ARG:HG2	2.50	0.51
5:F:395:THR:HA	5:F:404:LEU:HD13	1.92	0.51
2:I:1116:HIS:CD2	3:J:641:ILE:HG13	2.45	0.51
2:I:280:ASP:O	2:I:281:ASP:HB2	2.09	0.51
3:J:382:TYR:HB3	3:J:394:ILE:HG23	1.90	0.51
3:J:864:LEU:HD22	3:J:869:CYS:SG	2.50	0.51
1:N:32:GLU:HG2	1:N:33:ARG:H	1.76	0.51
2:O:655:VAL:HB	2:O:659:GLN:OE1	2.11	0.51
2:O:871:VAL:HG11	2:O:928:VAL:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1227:HIS:O	3:P:1231:ARG:HB2	2.10	0.51
3:P:1297:LYS:HD3	3:P:1297:LYS:N	2.24	0.51
3:P:844:THR:HG23	3:P:862:THR:O	2.10	0.51
2:C:757:THR:CG2	2:C:758:ARG:N	2.73	0.51
3:D:551:ARG:O	3:D:552:ILE:HD13	2.11	0.51
3:D:807:LEU:HD11	3:D:1259:GLN:HE21	1.75	0.51
5:F:506:SER:CB	5:F:509:THR:OG1	2.54	0.51
1:G:208:ASN:O	1:G:210:THR:N	2.36	0.51
1:G:66:HIS:CE1	1:G:69:SER:HB3	2.45	0.51
2:I:1330:ILE:O	2:I:1333:LEU:HB2	2.09	0.51
2:I:796:LEU:HB3	2:I:1233:LEU:HD11	1.93	0.51
3:J:1249:ASN:HB3	3:J:1251:LYS:HG2	1.91	0.51
3:J:1145:PHE:HZ	3:J:1253:ILE:HG23	1.76	0.51
3:J:1253:ILE:O	3:J:1257:VAL:HG23	2.10	0.51
3:J:373:ALA:CA	3:J:376:LEU:CD1	2.74	0.51
3:J:583:VAL:HG12	3:J:583:VAL:O	2.11	0.51
3:J:872:LEU:O	3:J:872:LEU:HD23	2.10	0.51
2:O:1307:ASN:HB3	2:O:1312:ASN:CB	2.40	0.51
2:O:1326:LEU:CD1	2:O:1330:ILE:HD11	2.40	0.51
3:P:280:LYS:HA	3:P:283:LEU:HD12	1.93	0.51
3:P:517:CYS:CB	3:P:545:HIS:HB2	2.40	0.51
3:P:786:THR:CG2	3:P:787:ALA:N	2.73	0.51
3:P:931:THR:O	3:P:935:PHE:HD2	1.93	0.51
6:1:34:DG:N2	7:2:29:DC:O2	2.43	0.51
3:D:138:VAL:HG11	3:D:185:ILE:HD11	1.90	0.51
3:D:363:LEU:CD1	3:D:363:LEU:O	2.53	0.51
5:F:299:LYS:O	5:F:302:PHE:HB3	2.11	0.51
2:I:1293:VAL:O	2:I:1301:ARG:HB3	2.10	0.51
2:I:589:THR:CG2	2:I:590:PRO:HD2	2.40	0.51
2:I:695:ALA:HB1	2:I:795:ALA:HB3	1.93	0.51
2:I:794:LEU:HG	2:I:796:LEU:HG	1.91	0.51
2:I:82:VAL:HG23	2:I:83:GLN:N	2.25	0.51
3:J:899:TYR:CG	3:J:915:ILE:HD13	2.45	0.51
1:M:9:LEU:CD2	1:M:198:LEU:HD21	2.18	0.51
2:O:678:ARG:HG3	2:O:1106:ARG:O	2.10	0.51
2:O:1108:ASN:OD1	2:O:1108:ASN:N	2.44	0.51
2:O:359:ARG:HE	2:O:363:LEU:HD11	1.74	0.51
2:O:616:ILE:HG12	2:O:652:TYR:HB2	1.93	0.51
3:P:955:LYS:HG2	3:P:956:GLY:N	2.25	0.51
5:R:344:LEU:O	5:R:347:ILE:HB	2.11	0.51
5:R:376:LYS:O	5:R:380:VAL:HG23	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:426:LYS:HG2	6:7:39:DA:H3'	1.93	0.51
5:L:102:MET:HB3	6:4:42:DG:C2	2.45	0.51
1:A:88:LEU:HD21	1:A:112:ALA:HB2	1.92	0.51
1:A:58:GLU:HG2	1:A:172:LEU:CD1	2.40	0.51
1:A:77:ASP:OD2	2:C:756:TYR:OH	2.22	0.51
1:B:44:ARG:HA	1:B:183:ILE:HD11	1.90	0.51
1:B:82:LEU:HB3	1:B:83:LEU:HD22	1.93	0.51
1:H:192:VAL:HG12	1:H:198:LEU:HD22	1.86	0.51
2:I:183:TRP:HE3	2:I:199:ASP:OD1	1.94	0.51
3:J:522:GLY:HA3	3:J:525:MET:SD	2.50	0.51
3:J:826:ILE:HG12	3:J:831:VAL:HA	1.93	0.51
5:L:476:ARG:HG3	5:L:477:GLU:N	2.25	0.51
1:N:39:LEU:O	1:N:43:LEU:HD12	2.10	0.51
2:O:1212:LEU:HD11	2:O:1225:VAL:HB	1.93	0.51
2:O:468:LEU:O	2:O:471:VAL:HB	2.10	0.51
2:O:482:GLY:HA3	2:O:487:LEU:HD12	1.92	0.51
2:O:598:VAL:HG13	2:O:627:GLY:HA2	1.93	0.51
2:O:758:ARG:HD2	2:O:835:GLU:HB2	1.91	0.51
2:O:755:LYS:HD3	2:O:767:GLN:O	2.11	0.51
2:O:812:PHE:CE2	2:O:813:GLU:HG3	2.45	0.51
3:P:139:LEU:CG	3:P:185:ILE:HD12	2.40	0.51
3:P:341:ASN:O	3:P:345:LYS:HE2	2.09	0.51
3:P:36:GLY:HA3	3:P:61:ILE:HG12	1.92	0.51
2:O:1309:VAL:HA	3:P:383:GLY:HA3	1.93	0.51
2:C:1283:ALA:HB1	3:D:479:GLU:CD	2.31	0.51
2:C:1305:TYR:O	2:C:1309:VAL:HG23	2.11	0.51
2:C:303:ASP:HB2	2:C:310:ILE:HG13	1.92	0.51
2:C:403:MET:HE1	2:C:586:PHE:HE2	1.75	0.51
3:D:703:THR:HG21	3:D:715:LYS:HE3	1.93	0.51
1:G:228:LEU:HA	1:G:231:PHE:HE2	1.67	0.51
2:I:1120:ALA:O	2:I:1124:ILE:HG13	2.11	0.51
2:I:1234:LYS:C	2:I:1235:LEU:HD23	2.31	0.51
2:I:794:LEU:HD12	2:I:795:ALA:N	2.25	0.51
2:I:976:ARG:O	2:I:980:VAL:HB	2.10	0.51
3:J:121:PRO:O	3:J:122:SER:CB	2.58	0.51
3:J:358:GLY:HA3	3:J:361:LEU:HD12	1.91	0.51
3:J:422:LEU:HD21	3:J:484:MET:HE2	1.92	0.51
2:I:808:ASN:CA	3:J:629:PHE:HB3	2.41	0.51
3:J:749:LYS:CB	3:J:750:PRO:CD	2.64	0.51
4:K:52:ARG:O	4:K:55:GLU:HB3	2.10	0.51
5:L:123:ILE:HG21	5:L:376:LYS:HE3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:90:VAL:HG12	2:O:91:THR:H	1.75	0.51
3:P:1251:LYS:O	3:P:1254:GLU:HB2	2.11	0.51
3:P:549:LYS:HB3	3:P:569:LEU:HD22	1.93	0.51
5:R:452:ILE:HG22	5:R:457:ILE:HG12	1.93	0.51
6:1:48:DA:C2'	6:1:49:DG:C8	2.94	0.51
1:A:51:MET:SD	1:A:52:PRO:HD2	2.50	0.51
1:B:83:LEU:HD13	1:B:86:LYS:CE	2.41	0.51
2:C:295:LYS:HB2	2:C:317:LEU:HD12	1.93	0.51
2:C:631:GLU:O	2:C:634:VAL:HG22	2.10	0.51
2:C:7:GLU:O	2:C:11:ILE:HG12	2.11	0.51
2:C:92:TYR:CB	2:C:137:VAL:HB	2.41	0.51
3:D:1179:PRO:HB2	3:D:1182:GLY:O	2.10	0.51
3:D:1253:ILE:HA	3:D:1256:ILE:CD1	2.40	0.51
3:D:1270:GLY:H	3:D:1274:PHE:HD2	1.59	0.51
1:H:185:TYR:HB2	1:H:201:LEU:HD11	1.91	0.51
2:I:1302:THR:HG23	2:I:1303:LYS:N	2.26	0.51
2:I:13:LYS:NZ	2:I:1148:ALA:O	2.39	0.51
2:I:524:ILE:O	2:I:528:ARG:HG2	2.11	0.51
3:J:838:ARG:NE	3:J:1250:ASP:OD2	2.42	0.51
3:J:485:MET:HG3	3:J:487:THR:H	1.75	0.51
1:M:184:ALA:HB2	2:O:1091:GLY:CA	2.40	0.51
1:M:47:LEU:CA	1:M:51:MET:HG2	2.39	0.51
1:M:11:PRO:HG2	1:N:231:PHE:CE2	2.45	0.51
2:O:810:TYR:HE2	2:O:1078:LYS:HD2	1.75	0.51
2:O:123:TYR:CZ	2:O:125:GLY:HA2	2.45	0.51
2:O:202:ARG:H	2:O:369:MET:HE1	1.76	0.51
2:O:758:ARG:HB2	2:O:833:ILE:HG21	1.92	0.51
3:P:1320:ILE:HD12	3:P:1342:ASP:CG	2.31	0.51
3:P:139:LEU:HD11	3:P:185:ILE:HD13	1.85	0.51
5:R:218:ARG:HB2	5:R:218:ARG:NH1	2.26	0.51
5:R:363:ARG:O	5:R:367:ILE:HG13	2.11	0.51
1:A:39:LEU:C	1:A:43:LEU:HD12	2.31	0.51
2:C:292:ILE:CG2	2:C:317:LEU:HD13	2.40	0.51
2:C:796:LEU:HB3	2:C:1233:LEU:HD11	1.93	0.51
3:D:442:ILE:CD1	3:D:443:GLU:O	2.59	0.51
3:D:508:LEU:HD12	3:D:508:LEU:O	2.11	0.51
3:D:530:PRO:O	3:D:533:ALA:HB3	2.09	0.51
1:H:68:TYR:CE1	1:H:79:LEU:HD22	2.46	0.51
2:I:1117:LEU:HD11	2:I:1182:ILE:CD1	2.40	0.51
2:I:1132:LEU:HD13	2:I:1174:GLU:HG2	1.93	0.51
2:I:316:GLU:HG2	2:I:352:ARG:HH22	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:898:GLU:HB3	5:L:540:LEU:HD21	1.93	0.51
2:I:96:LEU:HD22	2:I:127:ILE:HD11	1.92	0.51
3:J:1306:LEU:HD12	3:J:1307:LEU:N	2.26	0.51
3:J:343:LEU:HD21	3:J:1348:LYS:HD3	1.93	0.51
1:N:167:PRO:HG2	1:N:170:ARG:HH11	1.75	0.51
2:O:678:ARG:HG3	2:O:1108:ASN:ND2	2.26	0.51
2:O:392:GLU:HG2	2:O:419:ILE:HD13	1.93	0.51
2:O:678:ARG:CG	2:O:1106:ARG:O	2.59	0.51
3:P:525:MET:O	3:P:548:VAL:HG13	2.11	0.51
3:P:38:VAL:HG11	3:P:56:LEU:CD2	2.41	0.51
3:P:843:VAL:CG2	3:P:897:HIS:O	2.59	0.51
5:R:330:LEU:O	5:R:330:LEU:HD23	2.10	0.51
2:C:155:VAL:HG23	2:C:405:PHE:HA	1.93	0.51
2:C:225:PHE:HE2	2:C:347:ILE:HB	1.76	0.51
3:D:264:ASP:O	3:D:268:LEU:HG	2.11	0.51
3:D:614:LEU:HD12	3:D:614:LEU:O	2.10	0.51
3:J:132:LEU:HA	3:J:135:ILE:HD12	1.93	0.51
3:J:275:ARG:CZ	3:J:301:GLU:OE1	2.59	0.51
2:I:844:LYS:NZ	3:J:47:ARG:HD3	2.25	0.51
3:J:826:ILE:HG12	3:J:831:VAL:HG13	1.93	0.51
5:L:132:CYS:SG	5:L:257:LYS:CE	2.97	0.51
5:L:170:ALA:HA	5:L:259:PHE:HD1	1.75	0.51
1:N:189:ALA:HA	1:N:199:ASP:HB2	1.92	0.51
2:O:946:LEU:HD13	2:O:946:LEU:O	2.11	0.51
3:P:68:TYR:CD1	3:P:93:THR:HA	2.46	0.51
6:1:53:DG:C5	6:1:54:DA:N6	2.79	0.50
1:A:11:PRO:HD3	1:B:227:GLN:OE1	2.11	0.50
1:B:39:LEU:N	1:B:39:LEU:CD2	2.44	0.50
3:D:45:ASN:HB3	3:D:48:THR:O	2.10	0.50
3:D:58:CYS:SG	3:D:60:ARG:HB3	2.51	0.50
3:D:514:THR:CG2	3:D:596:LEU:HG	2.29	0.50
3:D:641:ILE:HA	3:D:644:MET:SD	2.50	0.50
3:D:814:CYS:HB3	3:D:890:THR:OG1	2.12	0.50
5:F:315:TRP:HZ2	5:F:341:LEU:HD11	1.75	0.50
5:F:575:GLU:HA	5:F:578:LYS:CD	2.41	0.50
2:I:1109:ILE:HG23	2:I:1112:ILE:HD12	1.93	0.50
2:I:1166:ASP:O	2:I:1169:VAL:HB	2.11	0.50
2:I:296:VAL:HG22	2:I:316:GLU:HA	1.92	0.50
2:I:148:GLN:HB3	2:I:454:ARG:HB2	1.93	0.50
3:J:1036:ARG:CZ	3:J:1081:VAL:HG11	2.41	0.50
3:J:549:LYS:HE2	3:J:571:ASP:OD2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:K:26:ARG:HH22	4:K:35:LYS:HB2	1.75	0.50
5:L:295:CYS:O	5:L:296:LYS:CE	2.50	0.50
1:M:11:PRO:O	1:N:231:PHE:CZ	2.64	0.50
2:O:1289:GLU:HA	2:O:1293:VAL:HG22	1.93	0.50
2:O:533:LEU:HD23	2:O:538:LEU:O	2.11	0.50
3:P:1268:ASN:O	3:P:1300:ALA:CB	2.58	0.50
3:P:252:LEU:HD12	3:P:261:ALA:O	2.12	0.50
3:P:490:ILE:CD1	3:P:490:ILE:H	2.17	0.50
6:7:50:DT:O3'	6:7:51:DC:O4'	2.29	0.50
2:C:1287:LEU:HG	2:C:1288:GLN:N	2.19	0.50
3:D:1173:ARG:HB2	3:D:1190:ILE:HB	1.93	0.50
3:D:41:PRO:HB2	3:D:270:ARG:HG2	1.93	0.50
2:I:481:LEU:HG	2:I:482:GLY:N	2.27	0.50
3:J:368:LEU:HD12	3:J:369:PRO:HD2	1.93	0.50
3:J:370:LYS:HG3	3:J:443:GLU:HA	1.93	0.50
3:J:395:LYS:O	3:J:398:LYS:HB2	2.10	0.50
2:I:1302:THR:HA	5:L:531:PRO:HG3	1.92	0.50
1:M:162:GLU:HG2	1:M:162:GLU:O	2.11	0.50
1:M:81:ILE:HD13	1:M:131:CYS:HB2	1.93	0.50
2:O:1298:VAL:HG12	2:O:1299:ASN:N	2.26	0.50
3:P:58:CYS:HG	3:P:60:ARG:HB3	1.74	0.50
1:A:234:LEU:CD2	1:B:12:ARG:HH12	2.21	0.50
2:C:12:ARG:HG3	2:C:1181:PRO:O	2.11	0.50
2:C:296:VAL:HG13	2:C:315:MET:O	2.11	0.50
2:C:866:ASP:OD1	2:C:867:GLU:HG3	2.11	0.50
3:D:1078:LEU:HD13	3:D:1121:LEU:HD22	1.93	0.50
3:D:1233:ILE:O	3:D:1237:VAL:CG2	2.53	0.50
3:D:190:LYS:HG3	3:D:190:LYS:O	2.11	0.50
3:D:250:ARG:HB2	3:D:266:ASN:OD1	2.12	0.50
3:D:347:VAL:HG11	3:D:469:HIS:CE1	2.47	0.50
3:D:496:GLY:HA2	3:D:903:LEU:HD22	1.91	0.50
5:F:266:PHE:O	5:F:270:VAL:HG23	2.12	0.50
2:I:68:LEU:HD22	2:I:492:MET:CE	2.41	0.50
3:J:885:VAL:O	3:J:1258:ARG:HD2	2.11	0.50
3:J:519:ASN:OD1	3:J:520:ALA:N	2.40	0.50
3:J:68:TYR:CD2	3:J:78:LEU:HD22	2.47	0.50
3:J:975:ILE:CD1	3:J:980:THR:HG21	2.39	0.50
5:L:598:LEU:O	5:L:604:SER:OG	2.30	0.50
2:O:886:LYS:HD2	2:O:916:SER:CB	2.41	0.50
3:P:968:ASN:HA	3:P:1117:SER:O	2.11	0.50
3:P:249:LEU:C	3:P:251:PRO:HD3	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:460:ILE:HA	5:R:463:LEU:CD1	2.42	0.50
1:B:9:LEU:HD12	1:B:10:LYS:N	2.26	0.50
1:B:61:ILE:HG23	1:B:142:MET:HB3	1.93	0.50
2:C:1010:GLN:O	2:C:1013:GLN:HB2	2.11	0.50
2:C:1247:SER:OG	2:C:1248:THR:N	2.44	0.50
2:C:188:PHE:CE2	2:C:432:LEU:CD1	2.89	0.50
3:D:830:ASP:OD1	3:D:831:VAL:N	2.44	0.50
5:F:518:HIS:O	5:F:520:GLY:N	2.44	0.50
1:H:174:ASP:N	1:H:174:ASP:OD1	2.40	0.50
2:I:1064:ASP:OD1	2:I:1239:VAL:N	2.40	0.50
2:I:1323:PHE:HE1	2:I:1327:LEU:HD21	1.76	0.50
2:I:1312:ASN:ND2	4:K:32:VAL:HG21	2.26	0.50
1:N:31:LEU:HD13	1:N:39:LEU:HD12	1.90	0.50
2:O:9:LYS:HE2	2:O:1171:ARG:CD	2.41	0.50
3:P:275:ARG:NH1	3:P:298:MET:O	2.44	0.50
1:A:58:GLU:HG2	1:A:172:LEU:HD13	1.93	0.50
1:B:155:ALA:HB1	1:B:172:LEU:HD21	1.92	0.50
1:B:67:GLU:CA	1:B:78:ILE:HG21	2.40	0.50
2:C:1042:LEU:HD13	2:C:1049:ILE:CD1	2.42	0.50
2:C:106:GLU:OE2	2:C:115:LYS:HD2	2.12	0.50
2:C:559:CYS:HB2	2:C:662:SER:HB3	1.90	0.50
2:C:92:TYR:H	2:C:137:VAL:HB	1.77	0.50
3:D:1353:VAL:CG2	3:D:1355:ARG:HG3	2.40	0.50
3:D:422:LEU:HD23	3:D:436:ALA:HA	1.94	0.50
5:F:511:ILE:HD11	5:F:519:LEU:HD13	1.87	0.50
1:H:40:GLY:HA2	1:H:43:LEU:CD1	2.42	0.50
2:I:1269:ARG:NH2	7:5:14:DC:OP1	2.44	0.50
2:I:309:LEU:HD13	2:I:312:ALA:HB2	1.94	0.50
3:J:139:LEU:HD23	3:J:181:GLY:C	2.32	0.50
3:J:371:LYS:O	3:J:374:LEU:HB3	2.12	0.50
3:J:421:VAL:HG13	3:J:471:PRO:HD2	1.93	0.50
3:J:43:THR:OG1	3:J:44:ILE:N	2.45	0.50
3:J:490:ILE:HA	3:J:500:ILE:HD12	1.92	0.50
5:L:476:ARG:HG3	5:L:477:GLU:H	1.77	0.50
2:O:1031:ALA:O	2:O:1035:LYS:HG3	2.11	0.50
2:O:99:LYS:HG3	2:O:121:GLU:HG3	1.94	0.50
2:O:693:LEU:CB	2:O:831:ILE:HD11	2.36	0.50
2:O:950:GLU:C	2:O:950:GLU:CD	2.70	0.50
3:P:154:LEU:HD13	3:P:158:GLN:HG2	1.93	0.50
3:P:147:ILE:HD11	3:P:179:LYS:HD2	1.94	0.50
3:P:548:VAL:CG1	3:P:549:LYS:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:864:LEU:HD22	3:P:868:TRP:HB2	1.93	0.50
5:R:146:GLU:OE2	5:R:150:ARG:NH2	2.44	0.50
2:C:1065:LYS:HZ2	8:3:15:G:H4'	1.74	0.50
2:C:1108:ASN:N	2:C:1108:ASN:OD1	2.45	0.50
2:C:809:GLY:HA3	3:D:629:PHE:CD1	2.46	0.50
2:C:85:CYS:SG	2:C:90:VAL:HB	2.52	0.50
3:D:140:TYR:O	3:D:141:PHE:HB2	2.12	0.50
3:D:475:GLU:H	3:D:475:GLU:CD	2.08	0.50
1:G:145:LYS:HZ1	1:G:170:ARG:HH21	1.60	0.50
1:H:70:THR:HG23	1:H:70:THR:O	2.11	0.50
2:I:1044:PRO:HB3	5:L:498:LEU:HD22	1.94	0.50
2:I:240:GLU:HG3	2:I:284:LEU:HD23	1.93	0.50
3:J:966:VAL:HG21	3:J:1030:GLU:HA	1.93	0.50
3:J:843:VAL:HG21	3:J:897:HIS:C	2.26	0.50
4:K:26:ARG:O	4:K:30:MET:HG3	2.12	0.50
2:O:209:ILE:CG2	2:O:210:LEU:H	2.25	0.50
2:O:213:LEU:O	2:O:214:ASN:CB	2.60	0.50
2:O:435:ILE:HA	2:O:440:GLY:H	1.77	0.50
2:O:67:GLU:CD	2:O:105:TYR:HH	2.15	0.50
2:O:706:ARG:O	2:O:710:VAL:HG23	2.12	0.50
3:P:1328:THR:O	3:P:1332:LEU:CD2	2.59	0.50
5:R:587:ILE:H	5:R:587:ILE:CD1	2.14	0.50
6:1:55:DC:H2''	6:1:56:DG:C8	2.47	0.50
2:C:459:MET:HB3	2:C:505:PHE:HZ	1.76	0.50
2:C:726:TYR:HB3	2:C:733:VAL:CG2	2.39	0.50
3:D:1175:LEU:HD22	3:D:1190:ILE:HD11	1.93	0.50
3:D:43:THR:OG1	3:D:44:ILE:HG13	2.12	0.50
1:H:92:VAL:HG22	1:H:121:VAL:HG13	1.94	0.50
3:J:357:VAL:HG22	3:J:461:PHE:CE2	2.46	0.50
3:J:872:LEU:HD23	3:J:872:LEU:C	2.29	0.50
5:L:544:THR:O	5:L:548:LEU:HG	2.11	0.50
1:M:44:ARG:HA	1:M:183:ILE:HD13	1.94	0.50
2:O:1103:VAL:HB	2:O:1104:PRO:HD3	1.93	0.50
3:P:38:VAL:HG11	3:P:56:LEU:HD23	1.92	0.50
3:P:646:ILE:HG13	3:P:764:ARG:NH1	2.26	0.50
5:R:426:LYS:HG3	5:R:427:PHE:N	2.27	0.50
1:A:45:ARG:HD2	1:B:38:THR:HA	1.94	0.50
1:A:38:THR:CG2	1:B:42:ALA:CB	2.90	0.50
3:D:355:ILE:HG13	3:D:355:ILE:O	2.10	0.50
3:D:720:ASN:O	3:D:724:MET:CG	2.58	0.50
1:G:58:GLU:HB2	1:G:145:LYS:HB2	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:429:MET:O	2:I:433:ILE:HG13	2.12	0.50
2:O:1109:ILE:HA	2:O:1112:ILE:CD1	2.41	0.50
2:O:671:LEU:HB2	2:O:1186:VAL:HG13	1.93	0.50
2:O:390:PHE:CD2	2:O:390:PHE:N	2.80	0.50
2:O:575:LEU:CD1	2:O:579:ALA:HB3	2.39	0.50
2:O:520:PRO:HB2	2:O:794:LEU:HD11	1.94	0.50
2:O:1269:ARG:HH12	3:P:340:GLN:HG3	1.76	0.50
3:P:423:LEU:HG	3:P:437:PHE:CD1	2.47	0.50
3:P:610:ARG:NH2	3:P:901:ARG:NH1	2.60	0.50
5:R:386:LEU:CD1	6:7:41:DT:O4'	2.59	0.50
6:1:30:DG:H2"	6:1:31:DT:OP2	2.11	0.50
2:C:164:THR:O	2:C:165:HIS:CB	2.56	0.50
2:C:715:THR:HG22	2:C:785:ASP:HA	1.93	0.50
5:F:323:ASN:O	5:F:324:LYS:HB2	2.10	0.50
3:J:1038:THR:O	3:J:1040:MET:HG3	2.11	0.50
3:J:1287:ILE:CG2	3:J:1288:ALA:N	2.75	0.50
3:J:1318:SER:HA	3:J:1342:ASP:OD2	2.11	0.50
3:J:373:ALA:O	3:J:376:LEU:HB2	2.12	0.50
3:J:622:ASP:HA	3:J:625:MET:HE2	1.93	0.50
3:J:849:LEU:HD12	3:J:851:PRO:HD3	1.94	0.50
2:O:1253:LEU:HG	2:O:1253:LEU:O	2.10	0.50
2:O:1269:ARG:HA	3:P:346:ARG:HA	1.94	0.50
2:O:346:TYR:O	2:O:350:THR:OG1	2.26	0.50
2:O:668:ILE:HG21	2:O:671:LEU:HD13	1.94	0.50
3:P:113:HIS:NE2	3:P:115:TRP:HB2	2.27	0.50
3:P:1263:LYS:HD3	3:P:1281:GLU:HA	1.93	0.50
2:O:806:PRO:HG2	3:P:632:ALA:O	2.12	0.50
3:P:44:ILE:HD11	5:R:450:ILE:HG22	1.92	0.50
5:R:563:PHE:HB3	5:R:565:ILE:CD1	2.42	0.50
6:4:33:DT:H2"	6:4:34:DG:OP2	2.12	0.49
1:A:182:ARG:HD3	2:C:1092:THR:CG2	2.36	0.49
1:A:86:LYS:HE2	1:A:173:VAL:HG13	1.93	0.49
1:B:81:ILE:HG23	1:B:130:ILE:O	2.12	0.49
2:C:936:ARG:CZ	2:C:1046:VAL:O	2.59	0.49
2:C:230:PHE:HD2	2:C:335:THR:HB	1.76	0.49
3:D:1177:ILE:HG13	3:D:1186:TYR:O	2.12	0.49
3:D:146:VAL:CB	3:D:158:GLN:HB3	2.40	0.49
3:D:255:LEU:HD12	3:D:259:ARG:HB2	1.94	0.49
3:D:382:TYR:HD1	3:D:397:ALA:HB3	1.76	0.49
3:D:714:GLU:O	3:D:715:LYS:CB	2.58	0.49
3:D:744:ARG:HB3	3:D:759:ILE:CG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:105:MET:HE3	5:F:106:GLY:HA2	1.94	0.49
5:F:395:THR:CG2	5:F:404:LEU:HD13	2.41	0.49
1:G:118:ASP:HB3	1:G:121:VAL:CG2	2.42	0.49
1:G:208:ASN:HD22	1:G:208:ASN:N	2.07	0.49
1:G:47:LEU:CD1	1:G:183:ILE:HD13	2.37	0.49
2:I:816:ILE:HD11	2:I:1074:GLY:HA3	1.94	0.49
2:I:1061:GLN:NE2	2:I:1240:ASP:OD1	2.45	0.49
2:I:298:ALA:HB2	2:I:336:LEU:HD21	1.93	0.49
2:I:49:LEU:HD13	2:I:73:TYR:CE1	2.47	0.49
2:I:85:CYS:HB3	2:I:137:VAL:HG11	1.93	0.49
3:J:1146:GLU:OE2	3:J:1309:ILE:HB	2.12	0.49
3:J:118:LYS:HE3	3:J:312:ARG:HA	1.94	0.49
3:J:497:GLU:CB	3:J:498:PRO:HD2	2.40	0.49
3:J:706:VAL:HG12	3:J:706:VAL:O	2.11	0.49
1:N:101:THR:HG22	1:N:143:ARG:CG	2.16	0.49
2:O:618:GLN:HE21	2:O:635:THR:HG21	1.75	0.49
3:P:1021:ASP:OD1	3:P:1022:PRO:HD2	2.12	0.49
3:P:812:ASP:O	3:P:897:HIS:ND1	2.37	0.49
5:R:260:ARG:NH1	5:R:422:ARG:HH22	2.10	0.49
6:7:48:DA:OP1	6:7:48:DA:H4'	2.11	0.49
1:A:29:GLU:HB2	1:A:30:PRO:HA	1.93	0.49
1:A:13:LEU:N	1:B:231:PHE:HE1	2.10	0.49
2:C:1134:GLN:HB3	2:C:1136:GLN:HE21	1.76	0.49
2:C:1212:LEU:O	2:C:1221:PHE:CD2	2.65	0.49
3:D:1027:VAL:HG21	3:D:1124:ILE:HD11	1.93	0.49
3:D:696:ALA:O	3:D:700:ASN:HB2	2.12	0.49
3:J:972:LYS:HD3	3:J:1002:VAL:CG1	2.43	0.49
3:J:1257:VAL:CA	3:J:1260:MET:CE	2.60	0.49
3:J:193:ASP:OD2	3:J:196:GLN:HG3	2.12	0.49
3:J:501:VAL:CG1	3:J:502:PRO:CD	2.91	0.49
3:J:502:PRO:CG	3:J:601:ILE:CG2	2.81	0.49
3:J:839:VAL:CG1	3:J:864:LEU:CD1	2.70	0.49
1:N:111:THR:OG1	1:N:126:PRO:O	2.29	0.49
1:N:190:ALA:N	1:N:199:ASP:HA	2.13	0.49
2:O:1182:ILE:CG2	2:O:1183:ALA:N	2.75	0.49
3:P:1035:VAL:CG1	3:P:1078:LEU:HD22	2.42	0.49
2:O:1286:THR:OG1	3:P:479:GLU:OE2	2.21	0.49
3:P:555:TYR:CD2	3:P:563:LEU:HB3	2.46	0.49
3:P:911:LYS:O	3:P:911:LYS:HG3	2.12	0.49
5:R:133:SER:CB	5:R:365:MET:SD	2.99	0.49
6:4:30:DG:C2	7:5:34:DG:N2	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1261:GLY:HA2	7:8:16:DC:P	2.50	0.49
3:D:888:CYS:HB3	3:D:894:VAL:HG12	1.94	0.49
2:C:496:LYS:HE3	5:F:468:ARG:HG2	1.93	0.49
5:F:520:GLY:O	5:F:523:ILE:HG13	2.12	0.49
1:G:51:MET:CE	1:G:52:PRO:HD2	2.41	0.49
2:I:1092:THR:HG22	2:I:1093:PRO:HD2	1.94	0.49
2:I:1223:ARG:HB2	2:I:1224:PRO:CD	2.43	0.49
2:I:186:PHE:CE1	2:I:196:VAL:HG22	2.47	0.49
2:I:557:ARG:NH2	2:I:611:GLU:OE1	2.45	0.49
3:J:1145:PHE:HE1	3:J:1256:ILE:HD12	1.77	0.49
3:J:1360:GLY:HA2	4:K:17:PHE:CE2	2.48	0.49
3:J:1364:ALA:O	3:J:1367:GLN:HG2	2.12	0.49
3:J:139:LEU:CD2	3:J:182:ALA:HA	2.42	0.49
3:J:885:VAL:HG12	3:J:886:VAL:HG22	1.94	0.49
5:L:137:TYR:CE2	5:L:139:GLU:HB2	2.46	0.49
1:N:31:LEU:CD1	1:N:39:LEU:CD1	2.77	0.49
2:O:213:LEU:HD11	2:O:422:LYS:HB2	1.94	0.49
2:O:496:LYS:CB	2:O:497:PRO:CD	2.83	0.49
2:O:550:VAL:HG21	3:P:776:THR:HG22	1.86	0.49
3:P:322:ARG:CG	3:P:322:ARG:HH11	2.25	0.49
3:P:803:VAL:HG22	3:P:1313:SER:OG	2.12	0.49
3:P:823:THR:C	3:P:835:LEU:HD13	2.32	0.49
5:R:279:ARG:O	5:R:283:GLN:HG2	2.12	0.49
5:R:476:ARG:CG	5:R:477:GLU:H	2.24	0.49
6:4:48:DA:H2''	6:4:49:DG:C5'	2.34	0.49
1:A:179:PRO:CA	1:A:208:ASN:ND2	2.71	0.49
2:C:1146:GLN:HB2	2:C:1161:LEU:HD23	1.94	0.49
2:C:241:LEU:HD22	2:C:285:ILE:CD1	2.43	0.49
3:D:475:GLU:N	3:D:475:GLU:CD	2.66	0.49
3:D:553:THR:HA	3:D:567:THR:HA	1.94	0.49
1:H:28:LEU:HD12	1:H:31:LEU:HD21	1.94	0.49
2:I:978:VAL:HG13	2:I:1007:LYS:HD2	1.93	0.49
2:I:1058:ARG:HH11	2:I:1238:LEU:HD12	1.76	0.49
3:J:214:ARG:NH2	3:J:215:LYS:HE2	2.27	0.49
3:J:544:LEU:HA	3:J:574:VAL:HB	1.94	0.49
5:L:583:THR:CG2	5:L:586:ARG:CB	2.89	0.49
2:O:184:LEU:HD11	2:O:389:PHE:CZ	2.46	0.49
3:P:1349:GLU:O	3:P:1353:VAL:HG13	2.13	0.49
3:P:245:LEU:HD11	3:P:249:LEU:HD12	1.94	0.49
3:P:909:ILE:HG13	3:P:910:ASN:H	1.78	0.49
6:4:47:DC:H6	6:4:47:DC:C5'	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:514:PHE:CE2	7:8:18:DT:O2	2.65	0.49
1:B:41:ASN:ND2	2:C:1217:THR:O	2.45	0.49
2:C:1286:THR:O	2:C:1289:GLU:HB2	2.13	0.49
2:C:903:ARG:NH2	2:C:909:LYS:CG	2.69	0.49
3:D:252:LEU:HD12	3:D:253:VAL:N	2.26	0.49
3:D:452:LEU:HB3	3:D:500:ILE:HG22	1.94	0.49
2:I:530:ILE:HD12	2:I:530:ILE:N	2.27	0.49
3:J:576:ARG:HB3	3:J:592:VAL:HG23	1.94	0.49
5:L:559:LEU:HD11	5:L:594:ALA:HB1	1.94	0.49
1:M:31:LEU:CD1	1:M:201:LEU:HB2	2.42	0.49
2:O:1184:THR:CG2	2:O:1184:THR:O	2.61	0.49
3:P:1018:ALA:O	3:P:1019:ASN:HB2	2.12	0.49
3:P:1263:LYS:O	3:P:1305:ASP:HB2	2.13	0.49
3:P:245:LEU:HD11	3:P:249:LEU:HB2	1.93	0.49
3:P:528:THR:OG1	3:P:528:THR:O	2.30	0.49
3:P:899:TYR:CE1	3:P:915:ILE:HG21	2.48	0.49
5:R:129:GLN:O	5:R:132:CYS:HB2	2.13	0.49
6:4:17:DA:C5	6:4:18:DC:C4	3.00	0.49
2:C:1032:LYS:O	2:C:1036:ILE:HG13	2.12	0.49
2:C:1094:VAL:HG12	2:C:1095:ASP:N	2.26	0.49
2:C:1129:ASN:O	2:C:1133:LYS:HG3	2.12	0.49
2:C:13:LYS:CE	2:C:1149:TYR:O	2.53	0.49
2:C:189:ASP:CG	2:C:190:PRO:HD2	2.32	0.49
2:C:255:ILE:HD12	2:C:263:VAL:HB	1.95	0.49
2:C:363:LEU:HD23	2:C:366:ILE:CD1	2.42	0.49
2:C:854:ILE:HD11	2:C:917:SER:OG	2.11	0.49
3:D:255:LEU:HD22	3:D:256:ASP:N	2.28	0.49
3:D:592:VAL:HG22	3:D:592:VAL:O	2.13	0.49
2:I:528:ARG:O	2:I:530:ILE:HD11	2.13	0.49
2:O:213:LEU:HD21	2:O:422:LYS:HB3	1.95	0.49
2:O:85:CYS:HB3	2:O:137:VAL:HG11	1.94	0.49
3:P:935:PHE:CE1	3:P:1133:ASP:OD2	2.66	0.49
7:2:25:DA:C2	7:2:26:DT:C4	3.00	0.49
1:B:158:ARG:NH2	1:B:175:ALA:CB	2.75	0.49
2:C:741:MET:CE	2:C:747:GLY:HA3	2.42	0.49
2:C:809:GLY:N	3:D:629:PHE:CD1	2.81	0.49
3:D:271:ARG:HH12	3:D:316:ILE:HG21	1.77	0.49
3:D:34:SER:HG	3:D:104:HIS:CG	2.28	0.49
3:D:515:ARG:HH21	3:D:717:VAL:CB	2.17	0.49
1:H:111:THR:OG1	1:H:126:PRO:O	2.30	0.49
2:I:1165:SER:O	2:I:1169:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1281:TYR:CD1	3:J:431:ARG:HD2	2.48	0.49
2:I:1302:THR:CG2	2:I:1303:LYS:N	2.75	0.49
2:I:688:GLN:NE2	8:6:14:A:O3'	2.46	0.49
3:J:355:ILE:HG23	3:J:464:ASP:O	2.11	0.49
3:J:740:LEU:HD23	3:J:763:PHE:CD2	2.47	0.49
1:M:13:LEU:HA	1:M:28:LEU:CD2	2.42	0.49
2:O:797:GLY:HA3	2:O:1233:LEU:CD2	2.43	0.49
2:O:292:ILE:CB	2:O:322:LEU:HD11	2.43	0.49
2:O:464:PHE:HE1	2:O:498:ILE:HG22	1.78	0.49
2:O:551:HIS:CE1	2:O:553:THR:HG1	2.28	0.49
2:O:661:VAL:HG12	2:O:665:ALA:CB	2.42	0.49
2:O:890:LYS:HG2	2:O:891:GLY:H	1.78	0.49
3:P:320:ASN:N	3:P:320:ASN:OD1	2.45	0.49
5:R:144:LEU:HD13	5:R:165:PHE:HE2	1.77	0.49
5:R:262:VAL:HG12	5:R:263:PRO:HD2	1.93	0.49
1:A:81:ILE:O	1:A:85:LEU:CG	2.54	0.49
1:A:28:LEU:HD11	1:B:231:PHE:CZ	2.48	0.49
2:C:12:ARG:HG3	2:C:1181:PRO:C	2.32	0.49
2:C:160:ASP:HB3	2:C:163:LYS:CG	2.42	0.49
2:C:1077:SER:HB3	3:D:356:THR:CG2	2.43	0.49
2:C:810:TYR:CZ	3:D:359:PRO:HG3	2.48	0.49
3:D:530:PRO:HD2	3:D:531:LYS:HZ2	1.78	0.49
3:D:638:SER:OG	3:D:639:VAL:N	2.44	0.49
5:F:148:TYR:OH	5:F:218:ARG:NH1	2.45	0.49
2:C:1253:LEU:HD22	5:F:523:ILE:HG21	1.95	0.49
2:I:960:LEU:HB3	2:I:1025:PHE:CE1	2.48	0.49
2:I:1257:GLN:HB3	2:I:1258:PRO:CD	2.42	0.49
2:I:189:ASP:CG	2:I:190:PRO:HD2	2.33	0.49
2:I:700:VAL:HG13	2:I:1117:LEU:CD2	2.33	0.49
2:I:736:VAL:O	2:I:741:MET:CE	2.61	0.49
2:I:87:ILE:HG22	2:I:934:PHE:HZ	1.76	0.49
3:J:1319:PHE:CD2	3:J:1340:LYS:HB3	2.48	0.49
3:J:959:LYS:HD3	3:J:985:ILE:HG13	1.95	0.49
1:M:100:LEU:HD21	1:M:118:ASP:HB2	1.94	0.49
1:M:69:SER:O	1:M:78:ILE:CG1	2.58	0.49
2:O:201:ARG:HB2	2:O:369:MET:HE1	1.95	0.49
2:O:801:ARG:HB3	2:O:801:ARG:CZ	2.39	0.49
3:P:371:LYS:O	3:P:374:LEU:HB3	2.12	0.49
3:P:362:ARG:HA	3:P:622:ASP:OD2	2.13	0.49
5:R:466:ILE:CG2	5:R:470:MET:SD	2.96	0.49
5:F:392:LYS:HD3	6:1:44:DG:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:THR:OG1	1:B:45:ARG:HD3	2.12	0.49
1:A:79:LEU:O	1:A:82:LEU:HB2	2.13	0.49
1:B:102:LEU:HB3	1:B:142:MET:SD	2.52	0.49
1:B:82:LEU:HB3	1:B:83:LEU:CD2	2.42	0.49
1:B:85:LEU:N	1:B:85:LEU:HD23	2.26	0.49
2:C:670:PHE:CE2	2:C:1113:LEU:CB	2.96	0.49
2:C:1186:VAL:HG12	2:C:1187:PHE:CD2	2.48	0.49
3:D:138:VAL:HG12	3:D:139:LEU:N	2.28	0.49
3:D:961:SER:O	3:D:962:ASN:HB2	2.13	0.49
5:F:219:GLU:HG3	5:F:220:LYS:HD2	1.94	0.49
5:F:574:GLU:OE2	5:F:584:ARG:HD2	2.13	0.49
2:I:433:ILE:O	2:I:437:ASN:ND2	2.45	0.49
2:I:636:CYS:HB2	2:I:645:PHE:HD2	1.77	0.49
2:I:871:VAL:HG23	2:I:883:LEU:C	2.32	0.49
5:L:170:ALA:HB1	5:L:259:PHE:HE1	1.78	0.49
2:O:1161:LEU:HD12	2:O:1164:PHE:CD2	2.47	0.49
2:O:363:LEU:HA	2:O:366:ILE:HD12	1.95	0.49
2:O:448:LEU:HG	2:O:553:THR:HB	1.95	0.49
2:O:634:VAL:HG12	2:O:635:THR:N	2.27	0.49
3:P:110:PRO:HB3	3:P:240:THR:HG22	1.95	0.49
3:P:425:ARG:HG2	3:P:426:ALA:O	2.13	0.49
3:P:544:LEU:HD23	3:P:578:ILE:CD1	2.42	0.49
3:P:613:GLY:O	3:P:617:THR:HG23	2.12	0.49
3:P:879:ALA:C	3:P:880:VAL:CG2	2.81	0.49
6:7:53:DG:H1'	6:7:54:DA:C5	2.48	0.49
2:C:1077:SER:HB3	3:D:356:THR:HG22	1.94	0.49
2:C:186:PHE:CE2	2:C:196:VAL:HG13	2.48	0.49
2:C:246:LEU:HD23	2:C:249:GLU:OE1	2.13	0.49
2:C:521:LEU:HD23	2:C:686:GLN:O	2.13	0.49
3:D:182:ALA:HB1	3:D:238:ILE:HD11	1.93	0.49
3:D:425:ARG:HH22	8:3:16:U:C2'	2.23	0.49
5:F:554:ARG:HG3	5:F:555:GLU:H	1.78	0.49
5:F:554:ARG:O	5:F:558:VAL:HG23	2.13	0.49
2:I:817:LEU:HB2	2:I:1097:VAL:HB	1.94	0.49
3:J:680:ASN:OD1	3:J:1023:HIS:CE1	2.66	0.49
3:J:382:TYR:HD1	3:J:397:ALA:HB1	1.78	0.49
1:N:67:GLU:O	1:N:78:ILE:HB	2.13	0.49
2:O:618:GLN:HE21	2:O:635:THR:CG2	2.26	0.49
2:O:729:ALA:O	2:O:730:SER:HB3	2.13	0.49
3:P:1286:LYS:HB2	3:P:1286:LYS:HE2	1.56	0.49
5:R:450:ILE:HD13	5:R:504:PRO:HD3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1:49:DG:H3'	6:1:50:DT:H5''	1.94	0.48
7:8:42:DG:H2''	7:8:43:DA:OP2	2.13	0.48
1:A:79:LEU:O	1:A:83:LEU:HD23	2.12	0.48
2:C:1061:GLN:CB	2:C:1062:PRO:HD2	2.35	0.48
2:C:432:LEU:O	2:C:432:LEU:HD12	2.11	0.48
2:C:949:GLU:O	2:C:953:LEU:HG	2.13	0.48
3:D:1061:VAL:O	3:D:1104:LYS:CA	2.61	0.48
3:D:227:PHE:CE1	3:D:234:PRO:HD3	2.48	0.48
3:D:808:VAL:HG12	3:D:809:VAL:N	2.26	0.48
5:F:491:GLU:HA	5:F:494:ILE:CD1	2.41	0.48
5:F:584:ARG:CZ	5:F:584:ARG:HB2	2.41	0.48
1:G:48:LEU:HD23	1:G:180:VAL:HB	1.89	0.48
1:G:30:PRO:HB2	1:G:198:LEU:HD22	1.94	0.48
1:H:106:GLY:HA2	1:H:136:GLU:O	2.13	0.48
2:I:839:VAL:HG22	2:I:1049:ILE:HG23	1.95	0.48
2:I:1255:THR:O	2:I:1256:GLN:HB2	2.13	0.48
2:I:335:THR:HG22	2:I:336:LEU:N	2.28	0.48
3:J:1269:ALA:HB2	3:J:1275:LEU:HD13	1.94	0.48
1:M:208:ASN:N	1:M:208:ASN:HD22	2.10	0.48
1:N:82:LEU:HD22	1:N:173:VAL:HG22	1.95	0.48
2:O:1267:GLY:HA3	3:P:347:VAL:O	2.13	0.48
2:O:272:ARG:HB3	2:O:272:ARG:CZ	2.43	0.48
2:O:544:GLY:O	2:O:548:ARG:HG3	2.13	0.48
2:O:828:PHE:O	2:O:1234:LYS:NZ	2.46	0.48
3:P:141:PHE:CZ	3:P:181:GLY:HA3	2.48	0.48
3:P:22:ILE:HD12	3:P:1335:ALA:HB1	1.95	0.48
3:P:615:LYS:HD2	3:P:615:LYS:H	1.78	0.48
3:P:954:ASN:O	3:P:984:LEU:HD21	2.12	0.48
1:B:70:THR:HG23	1:B:70:THR:O	2.14	0.48
2:C:1109:ILE:N	2:C:1109:ILE:HD13	2.27	0.48
3:D:65:VAL:HG22	3:D:98:ARG:CZ	2.42	0.48
1:G:145:LYS:NZ	1:G:170:ARG:HH21	2.11	0.48
1:H:83:LEU:O	3:J:528:THR:CG2	2.61	0.48
2:I:1338:GLU:O	3:J:20:ILE:HG23	2.13	0.48
2:I:205:PRO:HB2	2:I:207:THR:HG22	1.95	0.48
2:I:30:ILE:H	2:I:30:ILE:HG13	1.44	0.48
2:I:369:MET:HG3	2:I:370:MET:N	2.27	0.48
2:I:178:PRO:HG3	2:I:395:TYR:CE1	2.47	0.48
2:I:806:PRO:HB2	3:J:632:ALA:HB1	1.94	0.48
3:J:245:LEU:HD12	3:J:246:PRO:HD2	1.95	0.48
3:J:425:ARG:HD2	3:J:457:TYR:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:95:THR:O	5:L:97:PRO:HD3	2.13	0.48
2:O:1246:ARG:CZ	2:O:1258:PRO:HB3	2.43	0.48
2:O:690:VAL:CG1	2:O:691:PRO:HD2	2.43	0.48
3:P:930:LEU:CB	3:P:1134:ILE:HD11	2.39	0.48
3:P:116:PHE:HB3	3:P:124:ILE:HG13	1.96	0.48
4:Q:69:ARG:O	4:Q:73:GLN:HG3	2.12	0.48
5:R:493:LYS:O	5:R:497:VAL:HG23	2.13	0.48
3:P:262:THR:CA	5:R:507:MET:SD	3.01	0.48
5:F:451:ARG:NH1	6:1:32:DA:P	2.81	0.48
6:7:47:DC:H3'	6:7:48:DA:H5''	1.95	0.48
1:A:230:ALA:HB3	1:A:231:PHE:CE1	2.48	0.48
1:B:92:VAL:HG12	1:B:93:GLN:N	2.28	0.48
2:C:10:ARG:NH1	2:C:697:LYS:CB	2.73	0.48
2:C:1305:TYR:CD2	3:D:379:PRO:HB3	2.48	0.48
2:C:179:TYR:CE2	2:C:462:ASN:OD1	2.67	0.48
2:C:672:GLU:HB2	2:C:673:HIS:CD2	2.48	0.48
2:C:718:ALA:HB2	2:C:783:LEU:HD21	1.95	0.48
2:C:725:GLN:HB3	2:C:733:VAL:HG23	1.94	0.48
3:D:1229:VAL:O	3:D:1233:ILE:CD1	2.61	0.48
2:I:1184:THR:OG1	2:I:1189:GLY:CA	2.61	0.48
2:I:1323:PHE:O	2:I:1327:LEU:HG	2.13	0.48
2:I:1325:VAL:HG12	2:I:1329:GLU:CD	2.34	0.48
2:I:515:MET:HE3	2:I:517:GLN:HG2	1.96	0.48
2:I:558:VAL:CG1	2:I:559:CYS:O	2.62	0.48
2:I:720:ARG:HB3	2:I:740:GLU:HG2	1.96	0.48
2:I:78:PRO:CB	2:I:93:SER:O	2.58	0.48
3:J:825:VAL:CG1	3:J:1242:ARG:HH12	2.26	0.48
3:J:146:VAL:CG2	3:J:158:GLN:CB	2.91	0.48
3:J:421:VAL:CG1	3:J:422:LEU:H	2.11	0.48
3:J:899:TYR:CE1	3:J:915:ILE:CG2	2.94	0.48
1:N:64:VAL:HG12	1:N:64:VAL:O	2.13	0.48
1:M:184:ALA:CB	2:O:1091:GLY:HA3	2.42	0.48
2:O:1315:MET:HB2	3:P:473:THR:HG21	1.95	0.48
2:O:693:LEU:HG	2:O:693:LEU:O	2.13	0.48
3:P:1306:LEU:HD12	3:P:1307:LEU:N	2.28	0.48
3:P:394:ILE:H	3:P:394:ILE:HG13	1.37	0.48
3:P:741:ALA:HA	3:P:762:ASN:HD22	1.78	0.48
4:Q:10:VAL:HG11	4:Q:16:ARG:HG2	1.94	0.48
5:R:306:PHE:CZ	5:R:310:GLU:HG2	2.48	0.48
5:F:423:ARG:NH1	6:1:37:DA:C5	2.81	0.48
6:1:48:DA:H2''	6:1:49:DG:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:LEU:HA	1:A:31:LEU:HD23	1.43	0.48
1:B:213:PRO:O	1:B:216:ALA:HB3	2.14	0.48
1:B:67:GLU:HG3	1:B:68:TYR:CZ	2.48	0.48
2:C:669:PRO:HD3	2:C:1069:ARG:HD2	1.94	0.48
2:C:551:HIS:N	2:C:554:HIS:CE1	2.76	0.48
3:D:1284:ARG:HA	3:D:1287:ILE:CD1	2.42	0.48
3:D:635:SER:OG	3:D:636:GLY:N	2.46	0.48
3:D:922:SER:O	3:D:926:PRO:CD	2.57	0.48
5:F:310:GLU:OE1	5:F:355:ILE:HB	2.13	0.48
5:F:584:ARG:NH1	5:F:584:ARG:H	2.10	0.48
2:I:700:VAL:HG21	2:I:1114:GLU:HG3	1.96	0.48
2:I:237:LEU:CD1	2:I:292:ILE:HD12	2.42	0.48
2:I:694:ARG:O	2:I:798:GLN:NE2	2.47	0.48
3:J:501:VAL:CG1	3:J:502:PRO:HD2	2.42	0.48
3:J:806:ASP:O	3:J:808:VAL:HG23	2.13	0.48
2:O:1073:LYS:HD2	3:P:462:ASP:HB2	1.95	0.48
2:O:400:VAL:HG21	2:O:452:ARG:NH2	2.28	0.48
2:O:886:LYS:HD2	2:O:916:SER:HB2	1.95	0.48
3:P:1075:ARG:CG	3:P:1192:LYS:HB3	2.42	0.48
3:P:299:LEU:O	3:P:303:VAL:HG23	2.14	0.48
2:O:1243:MET:CG	3:P:372:MET:HE3	2.42	0.48
2:O:1280:ALA:HB3	3:P:431:ARG:HB3	1.96	0.48
3:P:544:LEU:HA	3:P:574:VAL:HB	1.94	0.48
3:P:646:ILE:HG13	3:P:764:ARG:HH11	1.79	0.48
3:P:65:VAL:HG22	3:P:98:ARG:NH1	2.28	0.48
5:R:310:GLU:HB3	5:R:355:ILE:CD1	2.41	0.48
5:F:429:THR:OG1	6:1:39:DA:H8	1.97	0.48
7:2:25:DA:H2"	7:2:26:DT:H5"	1.94	0.48
2:C:616:ILE:CD1	2:C:652:TYR:HB2	2.43	0.48
2:C:850:ILE:HD12	2:C:942:ASP:OD2	2.12	0.48
2:C:1077:SER:HB3	3:D:357:VAL:HG23	1.95	0.48
3:D:478:LEU:HD21	4:E:23:ALA:HB3	1.96	0.48
3:D:614:LEU:HD12	3:D:614:LEU:C	2.33	0.48
3:D:849:LEU:HD21	3:D:857:LEU:HD23	1.95	0.48
5:F:297:MET:CE	5:F:326:TRP:HZ3	2.27	0.48
5:F:396:ASN:O	5:F:397:ARG:C	2.50	0.48
1:G:118:ASP:HB3	1:G:121:VAL:HG23	1.94	0.48
1:G:17:GLU:OE2	1:G:19:VAL:HG22	2.13	0.48
1:H:129:VAL:C	1:H:130:ILE:HG13	2.32	0.48
2:I:1281:TYR:CE2	3:J:431:ARG:HB2	2.48	0.48
2:I:178:PRO:HG3	2:I:182:SER:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:803:VAL:HG12	3:J:1259:GLN:HB3	1.95	0.48
3:J:1263:LYS:HE3	3:J:1315:ALA:HB1	1.95	0.48
3:J:58:CYS:SG	3:J:60:ARG:N	2.86	0.48
3:J:598:LYS:O	3:J:601:ILE:HB	2.11	0.48
4:K:76:GLU:O	4:K:80:LEU:HG	2.13	0.48
5:L:130:VAL:HG23	5:L:368:GLY:HA3	1.93	0.48
5:L:488:LEU:HG	5:L:488:LEU:O	2.13	0.48
1:M:208:ASN:HD22	1:M:208:ASN:H	1.60	0.48
1:M:13:LEU:HB2	1:M:28:LEU:HD21	1.94	0.48
3:P:796:LEU:HA	3:P:799:ARG:HE	1.78	0.48
5:R:521:ASP:N	5:R:521:ASP:OD1	2.47	0.48
5:R:95:THR:O	5:R:97:PRO:HD3	2.13	0.48
2:I:688:GLN:NE2	8:6:14:A:O2'	2.46	0.48
1:A:234:LEU:HD22	1:B:12:ARG:NH1	2.22	0.48
1:B:219:ARG:O	1:B:223:ILE:HG13	2.14	0.48
3:D:1256:ILE:C	3:D:1260:MET:CE	2.81	0.48
3:D:839:VAL:O	3:D:842:ARG:HG3	2.14	0.48
3:D:842:ARG:HH12	3:D:1254:GLU:CD	2.14	0.48
3:D:496:GLY:CA	3:D:903:LEU:HD22	2.44	0.48
2:I:313:ALA:O	2:I:314:ASN:HB3	2.13	0.48
2:I:384:LEU:HG	2:I:388:LEU:HD11	1.96	0.48
2:I:782:VAL:HG21	2:I:792:GLY:HA2	1.95	0.48
3:J:1173:ARG:HB2	3:J:1190:ILE:CB	2.43	0.48
3:J:467:ALA:C	3:J:468:VAL:HG22	2.33	0.48
1:H:44:ARG:HH12	3:J:538:ARG:HB3	1.76	0.48
3:J:261:ALA:HB2	5:L:519:LEU:HD21	1.96	0.48
5:L:565:ILE:O	5:L:566:ASP:CB	2.62	0.48
2:O:1297:ASP:CG	2:O:1300:GLY:H	2.17	0.48
2:O:1324:ASN:HA	2:O:1327:LEU:HD12	1.95	0.48
2:O:189:ASP:OD1	2:O:190:PRO:HD2	2.13	0.48
3:P:1163:VAL:CG1	3:P:1175:LEU:CD2	2.86	0.48
3:P:421:VAL:HG12	3:P:422:LEU:N	2.29	0.48
5:R:377:LYS:O	5:R:381:GLU:HG3	2.13	0.48
1:A:15:ASP:O	1:A:26:VAL:HG13	2.13	0.48
1:A:70:THR:O	1:A:70:THR:HG23	2.14	0.48
1:B:202:VAL:C	1:B:203:ILE:HG12	2.33	0.48
1:B:31:LEU:O	1:B:198:LEU:HB3	2.14	0.48
2:C:1210:ILE:HG23	2:C:1211:ARG:N	2.28	0.48
2:C:1264:GLN:O	2:C:1265:PHE:HB3	2.13	0.48
2:C:176:ILE:HD12	2:C:176:ILE:N	2.28	0.48
2:C:692:THR:OG1	2:C:693:LEU:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:92:TYR:CB	2:C:137:VAL:CG2	2.92	0.48
3:D:1062:LEU:HD13	3:D:1066:GLU:OE1	2.14	0.48
3:D:1163:VAL:HG22	3:D:1177:ILE:HA	1.95	0.48
3:D:1350:ASN:O	3:D:1353:VAL:HG22	2.13	0.48
3:D:139:LEU:CD2	3:D:185:ILE:HD11	2.34	0.48
4:E:5:THR:HG22	4:E:7:GLN:H	1.79	0.48
5:F:585:GLU:HG2	7:2:46:DT:H73	1.96	0.48
1:G:110:VAL:HG12	1:G:130:ILE:HD12	1.95	0.48
1:G:67:GLU:C	1:G:78:ILE:HD12	2.34	0.48
2:I:255:ILE:O	2:I:255:ILE:HG22	2.13	0.48
2:I:296:VAL:CG1	2:I:297:VAL:H	2.26	0.48
3:J:1306:LEU:HD12	3:J:1307:LEU:H	1.77	0.48
3:J:510:LEU:HD23	3:J:510:LEU:N	2.28	0.48
1:M:15:ASP:CB	1:M:27:THR:OG1	2.61	0.48
1:M:47:LEU:CD2	1:M:220:ALA:CB	2.91	0.48
1:N:188:GLU:O	1:N:200:LYS:HB2	2.13	0.48
2:O:1066:MET:HE1	2:O:1232:MET:SD	2.54	0.48
2:O:1289:GLU:HA	2:O:1293:VAL:CG2	2.44	0.48
3:P:807:LEU:HD11	3:P:1258:ARG:HD3	1.95	0.48
3:P:1263:LYS:HB2	3:P:1307:LEU:HD11	1.95	0.48
3:P:1347:LEU:O	3:P:1351:VAL:HG23	2.13	0.48
3:P:197:GLU:O	3:P:201:LEU:HG	2.13	0.48
3:P:262:THR:HG1	3:P:266:ASN:ND2	2.12	0.48
2:O:1073:LYS:HG3	3:P:462:ASP:CB	2.44	0.48
5:R:586:ARG:HE	5:R:590:ILE:HD11	1.78	0.48
6:1:47:DC:C6	6:1:47:DC:H5"	2.48	0.48
1:A:100:LEU:CD1	1:A:115:ILE:HG22	2.38	0.48
1:A:47:LEU:O	1:A:51:MET:HB2	2.12	0.48
1:B:224:LEU:O	1:B:228:LEU:HG	2.14	0.48
2:C:197:ARG:HB3	2:C:200:ARG:HA	1.96	0.48
3:D:1163:VAL:HG12	3:D:1164:SER:N	2.27	0.48
3:D:334:LYS:HA	3:D:339:ARG:HD2	1.96	0.48
5:F:309:ASN:O	5:F:311:THR:N	2.45	0.48
2:I:1030:GLU:O	2:I:1034:ARG:HG3	2.14	0.48
2:I:1132:LEU:HD11	2:I:1177:ARG:HB2	1.95	0.48
2:I:1290:MET:HA	2:I:1294:LYS:HB2	1.96	0.48
2:I:1294:LYS:HB3	3:J:347:VAL:CG1	2.43	0.48
2:I:160:ASP:HB3	2:I:163:LYS:HG3	1.96	0.48
2:I:599:VAL:HG23	2:I:627:GLY:O	2.14	0.48
2:I:807:TRP:HA	3:J:633:ALA:HB2	1.95	0.48
2:I:951:MET:HB3	2:I:951:MET:HE3	1.84	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:596:LEU:HD22	3:J:600:ALA:CB	2.41	0.48
2:I:566:GLY:HA2	3:J:787:ALA:HB2	1.95	0.48
5:L:318:ALA:O	5:L:321:ALA:HB3	2.13	0.48
3:P:1081:VAL:HB	3:P:1085:GLY:O	2.14	0.48
3:P:1243:LEU:HD22	3:P:1244:GLN:HE21	1.76	0.48
3:P:1344:LEU:CA	3:P:1349:GLU:OE1	2.48	0.48
3:P:312:ARG:O	3:P:312:ARG:HG2	2.14	0.48
3:P:43:THR:OG1	3:P:44:ILE:N	2.46	0.48
6:7:46:DG:C3'	6:7:47:DC:H5''	2.44	0.48
1:A:118:ASP:OD1	1:A:119:GLY:N	2.46	0.48
1:B:158:ARG:NH2	1:B:175:ALA:HB2	2.28	0.48
1:A:41:ASN:HD21	2:C:1218:GLY:HA2	1.79	0.48
3:D:1154:ALA:HA	3:D:1211:SER:OG	2.14	0.48
3:D:1216:ALA:O	3:D:1220:ILE:HG13	2.14	0.48
2:I:1253:LEU:O	2:I:1253:LEU:HD12	2.14	0.48
2:I:1270:PHE:HA	2:I:1274:GLU:HG2	1.94	0.48
2:I:521:LEU:CD2	2:I:687:ARG:HG2	2.41	0.48
3:J:955:LYS:HE2	3:J:1010:GLN:OE1	2.14	0.48
3:J:230:SER:HB2	3:J:1339:GLY:HA3	1.96	0.48
3:J:39:LYS:HZ1	3:J:280:LYS:CD	2.27	0.48
5:L:113:ARG:HA	5:L:426:LYS:HZ1	1.79	0.48
5:L:458:GLU:OE2	7:5:28:DG:C8	2.64	0.48
5:L:507:MET:O	5:L:519:LEU:HB2	2.08	0.48
1:N:214:GLU:HB3	1:N:218:ARG:HH22	1.78	0.48
2:O:1202:GLY:O	2:O:1203:ASP:HB2	2.14	0.48
2:O:1255:THR:HG22	2:O:1257:GLN:HG3	1.96	0.48
2:O:242:VAL:HG13	2:O:243:PRO:HD2	1.94	0.48
2:O:881:ASP:O	2:O:920:VAL:HG23	2.14	0.48
3:P:1306:LEU:O	3:P:1306:LEU:HG	2.08	0.48
3:P:603:LYS:O	3:P:607:THR:OG1	2.32	0.48
3:P:72:CYS:SG	3:P:74:LYS:HB2	2.54	0.48
4:Q:79:GLU:O	4:Q:79:GLU:HG2	2.12	0.48
5:R:514:ASP:OD2	5:R:516:ASP:HB2	2.13	0.48
5:R:529:GLU:OE2	5:R:534:SER:HA	2.14	0.48
7:5:6:DG:C8	7:5:6:DG:OP2	2.59	0.48
1:B:88:LEU:HD12	1:B:89:ALA:H	1.77	0.48
2:C:1103:VAL:N	2:C:1104:PRO:CD	2.77	0.48
1:A:41:ASN:HD21	2:C:1218:GLY:CA	2.23	0.48
3:D:749:LYS:HG2	3:D:755:ILE:CG1	2.40	0.48
3:D:839:VAL:CG1	3:D:839:VAL:O	2.62	0.48
3:D:960:LEU:HD23	3:D:982:LEU:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:575:GLU:HA	5:F:578:LYS:CE	2.44	0.48
1:H:32:GLU:O	1:H:35:PHE:HB2	2.14	0.48
2:I:1326:LEU:HG	2:I:1330:ILE:HD11	1.96	0.48
2:O:606:LEU:HD22	2:O:610:GLU:HB3	1.96	0.48
3:P:1031:VAL:HG13	3:P:1091:PRO:HD3	1.94	0.48
3:P:139:LEU:CD2	3:P:185:ILE:HD12	2.44	0.48
3:P:201:LEU:HB3	3:P:221:ILE:HD11	1.96	0.48
5:R:563:PHE:HB3	5:R:565:ILE:HD12	1.95	0.48
7:2:24:DT:H2''	7:2:25:DA:OP1	2.14	0.47
1:A:86:LYS:HG2	1:A:173:VAL:HG11	1.94	0.47
2:C:1007:LYS:HD3	2:C:1007:LYS:N	2.29	0.47
2:C:136:PHE:CE2	2:C:145:ILE:HD11	2.49	0.47
2:C:409:LEU:CD1	2:C:427:ASP:CB	2.91	0.47
2:C:530:ILE:HD11	2:C:575:LEU:N	2.29	0.47
3:D:43:THR:OG1	3:D:44:ILE:N	2.47	0.47
5:F:520:GLY:CA	5:F:523:ILE:HD11	2.39	0.47
1:H:28:LEU:C	1:H:28:LEU:CD1	2.82	0.47
2:I:104:ILE:HD12	2:I:116:ASP:HB2	1.96	0.47
2:I:1155:VAL:O	2:I:1155:VAL:CG1	2.61	0.47
2:I:240:GLU:CG	2:I:284:LEU:CD2	2.92	0.47
2:I:528:ARG:O	2:I:530:ILE:CD1	2.61	0.47
2:I:993:PRO:HB2	2:I:996:ARG:HB2	1.96	0.47
3:J:1200:GLU:HG2	3:J:1201:GLY:N	2.26	0.47
3:J:1240:VAL:HB	3:J:1241:TYR:CD2	2.49	0.47
3:J:1348:LYS:O	3:J:1351:VAL:HB	2.14	0.47
3:J:246:PRO:HB2	3:J:249:LEU:HG	1.95	0.47
3:J:331:ILE:HG22	3:J:338:PHE:HE2	1.78	0.47
3:J:722:ILE:O	3:J:725:MET:HB2	2.14	0.47
4:K:58:LEU:HD23	4:K:58:LEU:N	2.29	0.47
1:M:31:LEU:HD12	1:M:201:LEU:HB2	1.95	0.47
2:O:462:ASN:O	2:O:465:ARG:HB2	2.13	0.47
2:O:524:ILE:HD11	2:O:712:SER:CB	2.41	0.47
2:O:92:TYR:HB2	2:O:137:VAL:HB	1.96	0.47
3:P:1364:ALA:HA	3:P:1367:GLN:HG2	1.96	0.47
3:P:394:ILE:HD11	5:R:539:SER:HB2	1.95	0.47
2:O:1286:THR:HG23	3:P:479:GLU:OE2	2.14	0.47
6:7:47:DC:H2'	6:7:48:DA:C4	2.49	0.47
3:P:795:TYR:CD1	7:8:11:DA:C5'	2.97	0.47
1:B:158:ARG:HH21	1:B:175:ALA:HB2	1.78	0.47
2:C:160:ASP:OD1	2:C:163:LYS:HD3	2.13	0.47
2:C:283:LYS:C	2:C:284:LEU:HG	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:665:ALA:HA	2:C:668:ILE:HD11	1.96	0.47
3:D:1159:ILE:HG22	3:D:1160:SER:N	2.28	0.47
3:D:113:HIS:CB	3:D:239:LEU:HD11	2.43	0.47
3:D:385:LEU:HD23	3:D:390:LEU:HB2	1.96	0.47
3:D:773:PHE:O	3:D:773:PHE:CD2	2.66	0.47
3:D:946:ALA:C	3:D:948:SER:N	2.62	0.47
5:F:496:LYS:O	5:F:500:ILE:HG13	2.14	0.47
2:I:761:GLN:O	2:I:762:ASN:HB2	2.14	0.47
2:I:806:PRO:CA	2:I:811:ASN:HD21	2.25	0.47
2:I:82:VAL:O	2:I:86:GLN:HG3	2.15	0.47
2:I:846:GLY:CA	2:I:889:PRO:HG2	2.37	0.47
3:J:1177:ILE:HG13	3:J:1186:TYR:O	2.13	0.47
3:J:1251:LYS:HE2	3:J:1251:LYS:HB3	1.72	0.47
3:J:115:TRP:CZ3	3:J:1332:LEU:HB2	2.50	0.47
3:J:421:VAL:HG13	3:J:471:PRO:HD3	1.96	0.47
3:J:943:ARG:O	3:J:944:ALA:CB	2.62	0.47
5:L:129:GLN:OE1	5:L:367:ILE:CG2	2.63	0.47
5:L:595:LEU:O	5:L:599:ARG:HG3	2.14	0.47
2:O:1063:GLY:HA2	2:O:1075:VAL:CG1	2.44	0.47
2:O:592:ARG:NH2	2:O:600:THR:O	2.42	0.47
2:O:671:LEU:HA	2:O:671:LEU:HD12	1.54	0.47
2:O:761:GLN:O	2:O:762:ASN:CB	2.62	0.47
5:R:401:PHE:O	5:R:405:ILE:HG12	2.12	0.47
6:1:47:DC:H3'	6:1:48:DA:H5''	1.95	0.47
7:8:37:DA:H2''	7:8:38:DG:C8	2.49	0.47
2:C:1010:GLN:HA	2:C:1013:GLN:CG	2.43	0.47
3:D:117:LEU:HD23	3:D:118:LYS:HE2	1.95	0.47
3:D:421:VAL:CG1	3:D:469:HIS:O	2.62	0.47
3:D:703:THR:CB	3:D:716:GLN:O	2.59	0.47
4:E:22:VAL:CG1	4:E:64:LEU:HD12	2.44	0.47
3:D:399:LYS:HE3	5:F:612:ASP:CG	2.35	0.47
1:G:29:GLU:OE1	1:G:200:LYS:HB3	2.14	0.47
1:H:193:GLU:O	1:H:194:GLN:HB2	2.14	0.47
2:I:960:LEU:HD21	2:I:1028:LYS:HG2	1.95	0.47
2:I:15:PHE:CE2	2:I:1182:ILE:HG21	2.49	0.47
2:I:364:VAL:HG22	2:I:376:PRO:HB2	1.95	0.47
2:I:364:VAL:HG22	2:I:376:PRO:CB	2.44	0.47
2:I:714:VAL:CG1	2:I:786:GLY:HA3	2.42	0.47
2:I:809:GLY:HA3	3:J:629:PHE:CD1	2.48	0.47
2:I:953:LEU:CD2	2:I:957:LYS:HZ1	2.25	0.47
3:J:1282:TYR:O	3:J:1285:VAL:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:145:VAL:HG22	3:J:146:VAL:N	2.29	0.47
3:J:139:LEU:HD11	3:J:185:ILE:HG13	1.96	0.47
3:J:331:ILE:HG22	3:J:338:PHE:CE2	2.49	0.47
3:J:399:LYS:HZ3	5:L:611:LEU:HD23	1.78	0.47
3:J:786:THR:CG2	3:J:787:ALA:N	2.77	0.47
5:L:402:LEU:O	5:L:406:GLN:HG2	2.14	0.47
2:O:1165:SER:O	2:O:1169:VAL:HG23	2.13	0.47
2:O:5:TYR:CE2	2:O:776:PRO:HB2	2.49	0.47
3:P:22:ILE:CD1	3:P:1319:PHE:CD1	2.83	0.47
3:P:262:THR:C	5:R:507:MET:SD	2.92	0.47
3:P:527:LEU:HB2	3:P:550:VAL:HG13	1.96	0.47
5:R:452:ILE:CG2	5:R:456:MET:HB3	2.44	0.47
5:R:460:ILE:HA	5:R:463:LEU:HD11	1.96	0.47
8:3:13:GTP:N2	8:3:14:A:C4	2.82	0.47
1:A:85:LEU:HD21	1:A:130:ILE:HG23	1.96	0.47
1:A:228:LEU:HA	1:A:231:PHE:HE2	1.74	0.47
1:A:26:VAL:O	1:A:203:ILE:HD12	2.13	0.47
2:C:824:GLN:NE2	2:C:1082:ILE:HD11	2.28	0.47
2:C:1192:GLU:HA	2:C:1195:ILE:HD12	1.96	0.47
2:C:122:VAL:HG12	2:C:123:TYR:N	2.28	0.47
2:C:202:ARG:HB2	2:C:369:MET:HE1	1.97	0.47
2:C:263:VAL:CG1	2:C:269:ILE:CD1	2.89	0.47
2:C:30:ILE:H	2:C:30:ILE:HG13	1.14	0.47
2:C:358:ASP:OD1	2:C:358:ASP:N	2.43	0.47
2:C:612:GLY:O	2:C:639:LYS:HG3	2.15	0.47
2:C:726:TYR:CB	2:C:733:VAL:HG22	2.40	0.47
3:D:1351:VAL:HG12	3:D:1352:ILE:N	2.28	0.47
3:D:412:LEU:HG	3:D:416:ILE:HD11	1.97	0.47
3:D:725:MET:HE2	3:D:732:GLY:H	1.77	0.47
3:D:744:ARG:H	3:D:759:ILE:CG2	2.27	0.47
2:I:1005:GLU:HB3	2:I:1007:LYS:HG2	1.95	0.47
2:I:1111:GLN:O	2:I:1115:THR:OG1	2.32	0.47
2:I:1165:SER:H	2:I:1168:GLU:CD	2.17	0.47
2:I:431:LYS:O	2:I:435:ILE:HG13	2.15	0.47
3:J:612:LEU:HD23	3:J:612:LEU:O	2.15	0.47
5:L:487:MET:O	5:L:488:LEU:HB3	2.15	0.47
1:N:39:LEU:N	1:N:39:LEU:HD23	2.28	0.47
2:O:681:MET:O	2:O:685:MET:HG2	2.13	0.47
3:P:749:LYS:CB	3:P:750:PRO:CD	2.64	0.47
6:4:47:DC:C6	6:4:47:DC:H5"	2.49	0.47
1:A:104:LYS:HG2	1:A:114:ASP:OD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:12:ARG:O	1:A:28:LEU:CD2	2.62	0.47
2:C:1077:SER:CB	3:D:356:THR:CG2	2.92	0.47
2:C:1186:VAL:O	2:C:1187:PHE:HB2	2.14	0.47
2:C:1223:ARG:HG3	3:D:635:SER:O	2.15	0.47
2:C:1326:LEU:CD2	3:D:342:LEU:HD11	2.44	0.47
2:C:149:LEU:HD13	2:C:453:ILE:HD11	1.96	0.47
2:C:168:GLY:O	3:D:1065:ALA:HB2	2.14	0.47
2:C:267:ARG:HD3	2:C:268:ARG:H	1.79	0.47
2:C:633:LEU:HB3	2:C:644:LEU:HD22	1.95	0.47
3:D:807:LEU:CD1	3:D:1259:GLN:NE2	2.77	0.47
3:D:491:LEU:HD22	3:D:496:GLY:O	2.14	0.47
3:D:601:ILE:O	3:D:605:LEU:HG	2.14	0.47
5:F:411:GLY:HA3	5:F:435:ILE:HA	1.96	0.47
2:I:1085:MET:HE2	2:I:1085:MET:HB3	1.76	0.47
2:I:1243:MET:SD	3:J:445:LYS:HD3	2.55	0.47
2:I:280:ASP:HB3	2:I:282:VAL:HG23	1.95	0.47
2:I:296:VAL:HG13	2:I:315:MET:O	2.14	0.47
2:I:181:GLY:HA3	2:I:395:TYR:CD1	2.49	0.47
2:I:1223:ARG:HD2	3:J:637:ALA:HA	1.95	0.47
3:J:645:VAL:HG21	3:J:700:ASN:ND2	2.29	0.47
2:O:1243:MET:HG3	3:P:372:MET:HE3	1.97	0.47
2:O:831:ILE:H	2:O:831:ILE:HG13	1.52	0.47
3:P:1101:LEU:HD22	3:P:1122:ALA:CB	2.44	0.47
3:P:247:PRO:HG3	3:P:250:ARG:NH2	2.29	0.47
3:P:398:LYS:NZ	5:R:532:LEU:HD21	2.27	0.47
6:4:45:DT:H2'	6:4:46:DG:O4'	2.14	0.47
2:C:1056:VAL:HG12	2:C:1058:ARG:HG3	1.95	0.47
3:D:950:ILE:HB	3:D:1018:ALA:HB3	1.95	0.47
2:C:1284:ALA:CB	3:D:1356:LEU:HD22	2.44	0.47
3:D:645:VAL:HG22	3:D:701:LEU:HD13	1.97	0.47
3:D:683:ILE:HG22	3:D:684:ASP:N	2.29	0.47
5:F:333:VAL:O	5:F:337:VAL:HG23	2.15	0.47
5:F:408:GLY:O	5:F:435:ILE:HG23	2.14	0.47
3:D:262:THR:CA	5:F:507:MET:HE3	2.36	0.47
2:I:1066:MET:HE1	2:I:1232:MET:HB3	1.96	0.47
2:I:221:LEU:HD23	2:I:221:LEU:HA	1.60	0.47
2:I:211:ARG:NH1	2:I:357:ASN:O	2.46	0.47
2:I:367:TYR:HD1	2:I:384:LEU:HD22	1.78	0.47
2:I:181:GLY:HA3	2:I:395:TYR:HD1	1.80	0.47
2:I:71:VAL:CG2	2:I:101:ARG:HG3	2.45	0.47
3:J:194:LEU:HG	3:J:194:LEU:H	1.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:268:LEU:HD23	3:J:268:LEU:HA	1.54	0.47
3:J:723:TYR:CE1	3:J:727:ASP:HB2	2.49	0.47
2:O:1079:ILE:H	2:O:1079:ILE:HG13	1.41	0.47
2:O:1124:ILE:HD11	2:O:1198:LEU:HD13	1.96	0.47
2:O:217:THR:CA	2:O:220:ILE:HD12	2.36	0.47
2:O:595:THR:HG22	2:O:596:ASP:CG	2.35	0.47
2:O:808:ASN:N	2:O:808:ASN:HD22	2.12	0.47
2:O:82:VAL:HG23	2:O:83:GLN:H	1.78	0.47
3:P:541:LEU:O	3:P:542:ALA:HB2	2.14	0.47
3:P:553:THR:CA	3:P:567:THR:HG23	2.44	0.47
3:P:601:ILE:O	3:P:605:LEU:CG	2.63	0.47
3:P:836:ARG:HD2	3:P:873:GLU:CD	2.35	0.47
3:P:985:ILE:HG23	3:P:990:ARG:O	2.15	0.47
5:R:266:PHE:O	5:R:270:VAL:HG23	2.14	0.47
5:R:391:ALA:O	5:R:395:THR:HG23	2.15	0.47
6:1:49:DG:H5''	6:1:49:DG:H8	1.80	0.47
1:B:85:LEU:HD22	1:B:130:ILE:HG23	1.87	0.47
2:C:91:THR:HG23	2:C:138:ILE:HA	1.96	0.47
2:C:432:LEU:C	2:C:432:LEU:HD12	2.34	0.47
2:C:915:ASP:C	2:C:915:ASP:OD1	2.53	0.47
3:D:246:PRO:HB2	3:D:249:LEU:HG	1.97	0.47
3:D:246:PRO:HA	3:D:247:PRO:HD3	1.81	0.47
3:D:449:LEU:HD12	3:D:450:HIS:N	2.28	0.47
3:D:678:ARG:O	3:D:682:VAL:HG23	2.15	0.47
3:D:740:LEU:HA	3:D:763:PHE:HB2	1.95	0.47
5:F:119:ILE:HD13	5:F:378:GLU:HB3	1.95	0.47
2:I:177:ILE:HG23	2:I:183:TRP:HE1	1.80	0.47
2:I:303:ASP:OD1	2:I:328:SER:CB	2.63	0.47
2:I:622:ASN:ND2	2:I:630:VAL:HG21	2.30	0.47
3:J:825:VAL:HG11	3:J:1242:ARG:HH12	1.79	0.47
3:J:141:PHE:HA	3:J:180:MET:HG2	1.96	0.47
4:K:47:THR:O	4:K:50:ALA:HB3	2.15	0.47
5:L:469:GLN:O	5:L:472:GLN:HG2	2.15	0.47
2:O:1333:LEU:HB2	2:O:1335:ILE:CD1	2.38	0.47
2:O:400:VAL:HG21	2:O:452:ARG:CZ	2.44	0.47
3:P:1261:LEU:HA	3:P:1261:LEU:HD23	1.53	0.47
3:P:430:HIS:CD2	3:P:432:LEU:HB2	2.50	0.47
3:P:261:ALA:O	5:R:507:MET:HE3	2.14	0.47
6:4:45:DT:H71	6:4:46:DG:N2	2.30	0.47
6:7:36:DT:H2''	6:7:37:DA:C5'	2.44	0.47
1:A:100:LEU:CD1	1:A:115:ILE:CG2	2.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:53:GLY:O	1:B:177:TYR:CD1	2.67	0.47
1:B:185:TYR:O	1:B:185:TYR:CD2	2.67	0.47
2:C:672:GLU:HG3	2:C:1187:PHE:CD1	2.50	0.47
2:C:1315:MET:HG2	2:C:1317:PRO:HD3	1.97	0.47
2:C:149:LEU:HB2	2:C:453:ILE:HD12	1.97	0.47
2:C:495:ALA:HA	2:C:498:ILE:CD1	2.45	0.47
3:D:1131:THR:O	3:D:1132:LYS:HB2	2.15	0.47
3:D:1134:ILE:CG2	3:D:1138:LEU:HG	2.45	0.47
3:D:160:LEU:HD22	3:D:164:GLN:HB3	1.96	0.47
3:D:624:ILE:H	3:D:624:ILE:HG13	1.35	0.47
5:F:386:LEU:CD1	6:1:41:DT:O4'	2.63	0.47
1:G:158:ARG:HD2	1:G:172:LEU:HD11	1.96	0.47
1:G:26:VAL:HG21	1:G:217:ILE:HD11	1.97	0.47
2:I:851:THR:HG22	2:I:852:ALA:H	1.80	0.47
3:J:1261:LEU:HB3	3:J:1304:ARG:HD3	1.96	0.47
3:J:531:LYS:H	3:J:531:LYS:CD	2.28	0.47
1:M:102:LEU:HD13	1:M:115:ILE:HA	1.95	0.47
1:M:45:ARG:NH2	1:N:37:HIS:HB2	2.29	0.47
2:O:340:ASP:O	2:O:342:ASP:N	2.47	0.47
3:P:609:TYR:CE2	3:P:614:LEU:HD13	2.49	0.47
3:P:314:ARG:CZ	5:R:96:ASP:OD1	2.62	0.47
6:1:19:DA:N3	7:2:45:DG:N2	2.61	0.47
1:B:104:LYS:HE3	1:B:114:ASP:CG	2.35	0.47
2:C:551:HIS:HB3	2:C:554:HIS:CE1	2.50	0.47
2:C:761:GLN:O	2:C:762:ASN:CB	2.60	0.47
3:D:536:LEU:HD13	3:D:542:ALA:CB	2.37	0.47
3:D:512:TYR:CE1	3:D:545:HIS:HE1	2.32	0.47
1:G:86:LYS:HE2	1:G:174:ASP:HB2	1.95	0.47
1:H:30:PRO:HG3	1:H:192:VAL:HG21	1.97	0.47
2:I:1246:ARG:HD2	2:I:1265:PHE:O	2.15	0.47
2:I:317:LEU:HD22	2:I:322:LEU:HD21	1.96	0.47
2:I:598:VAL:HG13	2:I:627:GLY:HA2	1.97	0.47
2:I:736:VAL:O	2:I:741:MET:HE2	2.15	0.47
2:I:798:GLN:HB2	2:I:828:PHE:CE2	2.47	0.47
3:J:553:THR:CG2	3:J:566:LYS:C	2.80	0.47
3:J:587:LEU:CD2	3:J:611:ILE:HD12	2.45	0.47
5:L:571:TYR:HB2	5:L:576:VAL:CG2	2.45	0.47
2:O:810:TYR:CE2	2:O:1078:LYS:HD2	2.50	0.47
2:O:733:VAL:HG12	2:O:750:ILE:HA	1.97	0.47
3:P:1137:GLY:O	3:P:1141:VAL:HG23	2.15	0.47
3:P:1224:ARG:HB3	3:P:1228:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:155:ALA:CB	1:B:172:LEU:HD21	2.44	0.47
3:D:366:CYS:SG	3:D:437:PHE:CB	3.03	0.47
3:D:603:LYS:O	3:D:607:THR:OG1	2.31	0.47
3:D:609:TYR:HA	3:D:617:THR:HG21	1.96	0.47
3:D:673:VAL:CG1	3:D:678:ARG:HB2	2.45	0.47
3:D:943:ARG:CG	3:D:944:ALA:N	2.64	0.47
2:I:295:LYS:O	2:I:317:LEU:HB2	2.14	0.47
2:I:542:ARG:NH2	6:4:50:DT:C7	2.78	0.47
2:I:634:VAL:HG12	2:I:635:THR:H	1.79	0.47
2:I:770:CYS:HB3	2:I:791:LEU:HD23	1.94	0.47
2:I:839:VAL:HG13	2:I:1046:VAL:HG13	1.95	0.47
3:J:613:GLY:O	3:J:616:PRO:HD2	2.15	0.47
3:J:759:ILE:HG23	3:J:771:GLN:CD	2.35	0.47
3:J:882:VAL:HG22	3:J:883:ARG:O	2.14	0.47
5:L:508:GLU:O	5:L:518:HIS:HB3	2.15	0.47
2:O:839:VAL:HG12	2:O:1046:VAL:HG13	1.96	0.47
2:O:689:ALA:CB	2:O:1233:LEU:HD13	2.43	0.47
2:O:170:VAL:HG12	2:O:172:TYR:CE2	2.50	0.47
2:O:293:ALA:HB2	2:O:319:LEU:CD2	2.45	0.47
3:P:1156:LEU:HD23	3:P:1209:VAL:HA	1.96	0.47
3:P:1280:VAL:HG12	3:P:1284:ARG:HB2	1.96	0.47
3:P:139:LEU:HD23	3:P:181:GLY:O	2.15	0.47
3:P:300:GLN:O	3:P:303:VAL:HB	2.15	0.47
3:P:478:LEU:HD23	3:P:478:LEU:HA	1.59	0.47
3:P:723:TYR:CZ	3:P:727:ASP:HB2	2.49	0.47
3:P:773:PHE:CD2	3:P:773:PHE:C	2.88	0.47
3:P:789:LYS:HE3	3:P:1135:THR:HA	1.97	0.47
6:1:58:DG:C6	6:1:59:DG:C6	3.03	0.47
6:4:47:DC:C5'	6:4:47:DC:C6	2.98	0.47
2:C:200:ARG:HD2	6:1:50:DT:O2	2.14	0.47
2:C:851:THR:HG22	2:C:852:ALA:N	2.29	0.47
3:D:115:TRP:CH2	3:D:1329:THR:HA	2.49	0.47
3:D:1180:VAL:HG23	3:D:1181:ASP:N	2.30	0.47
3:D:1224:ARG:HD3	3:D:1228:ALA:CB	2.45	0.47
3:D:335:GLN:OE1	5:F:518:HIS:NE2	2.47	0.47
2:I:794:LEU:HD12	2:I:795:ALA:H	1.79	0.47
3:J:109:SER:CB	3:J:296:LYS:CE	2.87	0.47
3:J:275:ARG:HD3	3:J:298:MET:HB3	1.97	0.47
3:J:530:PRO:CD	3:J:531:LYS:HD2	2.45	0.47
3:J:639:VAL:HG12	3:J:639:VAL:O	2.14	0.47
2:I:1116:HIS:CD2	3:J:641:ILE:CG1	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:673:VAL:HG11	3:J:678:ARG:HD3	1.96	0.47
3:J:759:ILE:HD13	3:J:771:GLN:HB3	1.97	0.47
2:O:297:VAL:HG21	2:O:311:CYS:HB2	1.96	0.47
2:O:488:MET:CB	2:O:489:PRO:HD2	2.37	0.47
2:O:67:GLU:CD	2:O:105:TYR:OH	2.52	0.47
3:P:201:LEU:HD12	3:P:221:ILE:HG12	1.97	0.47
3:P:332:LYS:C	3:P:333:GLY:O	2.53	0.47
3:P:350:SER:O	3:P:376:LEU:HD21	2.15	0.47
3:P:498:PRO:HD3	3:P:606:ASN:ND2	2.29	0.47
5:R:387:VAL:CG1	5:R:388:ILE:N	2.73	0.47
7:5:34:DG:H2''	7:5:35:DT:OP2	2.15	0.46
2:I:202:ARG:HH22	7:5:6:DG:C5'	2.28	0.46
1:A:208:ASN:O	1:A:210:THR:N	2.48	0.46
1:A:213:PRO:O	1:A:217:ILE:CD1	2.58	0.46
1:B:123:ILE:H	1:B:123:ILE:HG13	1.35	0.46
2:C:933:VAL:CG1	2:C:934:PHE:N	2.79	0.46
3:D:117:LEU:HD21	3:D:139:LEU:CD1	2.45	0.46
3:D:615:LYS:N	3:D:616:PRO:CD	2.78	0.46
4:E:30:MET:HE1	4:E:46:THR:HA	1.95	0.46
5:F:91:ILE:CG2	5:F:94:THR:H	2.28	0.46
2:I:139:ASN:OD1	2:I:139:ASN:N	2.47	0.46
3:J:261:ALA:HB1	5:L:519:LEU:CD2	2.44	0.46
3:J:70:CYS:HA	3:J:90:VAL:HG11	1.96	0.46
1:N:68:TYR:CE1	1:N:79:LEU:HD21	2.49	0.46
2:O:888:THR:O	2:O:913:VAL:HG13	2.15	0.46
3:P:165:TYR:HD2	3:P:166:LEU:HG	1.80	0.46
5:R:216:LEU:O	5:R:220:LYS:HG2	2.16	0.46
7:8:23:DT:C3'	7:8:24:DT:H5''	2.41	0.46
2:C:1111:GLN:O	2:C:1115:THR:OG1	2.33	0.46
2:C:149:LEU:HD21	2:C:451:ARG:CZ	2.45	0.46
2:C:255:ILE:CG2	2:C:255:ILE:O	2.60	0.46
2:C:409:LEU:HD11	2:C:427:ASP:HB3	1.94	0.46
2:C:431:LYS:O	2:C:434:ASP:HB2	2.14	0.46
2:C:667:LEU:HD22	2:C:705:GLU:OE2	2.15	0.46
2:C:741:MET:HE1	2:C:747:GLY:HA3	1.97	0.46
3:D:146:VAL:HG21	3:D:158:GLN:CB	2.34	0.46
3:D:188:LEU:HD12	3:D:188:LEU:O	2.16	0.46
3:D:30:ILE:CD1	3:D:243:PRO:HD3	2.44	0.46
3:D:601:ILE:HG22	3:D:602:SER:N	2.30	0.46
3:D:622:ASP:HA	3:D:625:MET:HE1	1.97	0.46
3:D:885:VAL:HG11	3:D:1255:VAL:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:341:LEU:HD22	5:F:345:GLN:OE1	2.16	0.46
1:G:102:LEU:HD11	1:G:114:ASP:HB3	1.97	0.46
2:I:1161:LEU:O	2:I:1163:THR:N	2.49	0.46
2:I:759:SER:OG	2:I:763:THR:N	2.47	0.46
2:I:1225:VAL:HG13	3:J:638:SER:HB3	1.97	0.46
3:J:820:ILE:HD12	3:J:884:SER:HB3	1.97	0.46
2:C:279:LYS:HE3	5:L:473:GLU:OE2	2.15	0.46
5:L:84:LEU:HG	5:L:107:THR:HG22	1.98	0.46
1:N:37:HIS:CD2	1:N:187:VAL:HG11	2.51	0.46
2:O:104:ILE:O	2:O:115:LYS:HB3	2.15	0.46
3:P:930:LEU:CB	3:P:1134:ILE:CD1	2.93	0.46
3:P:1253:ILE:O	3:P:1256:ILE:HD12	2.16	0.46
3:P:139:LEU:HA	3:P:181:GLY:HA2	1.97	0.46
3:P:277:ASN:O	3:P:281:ARG:HG3	2.16	0.46
5:R:310:GLU:CB	5:R:355:ILE:CD1	2.93	0.46
5:R:476:ARG:CG	5:R:477:GLU:N	2.77	0.46
5:R:490:PRO:HB2	5:R:492:ASP:OD2	2.14	0.46
2:C:1161:LEU:C	2:C:1161:LEU:HD12	2.35	0.46
3:D:126:LEU:CD2	3:D:216:LYS:NZ	2.78	0.46
3:D:572:THR:HG1	3:D:576:ARG:HB2	1.79	0.46
5:F:297:MET:HE3	5:F:326:TRP:HZ3	1.80	0.46
5:F:333:VAL:HG22	5:F:336:GLU:HB2	1.98	0.46
5:F:390:ILE:HD11	5:F:432:THR:HA	1.98	0.46
2:I:1278:LEU:CB	2:I:1287:LEU:HD22	2.44	0.46
3:J:246:PRO:HA	3:J:247:PRO:HD3	1.84	0.46
1:M:100:LEU:HA	1:M:100:LEU:HD23	1.77	0.46
1:N:32:GLU:HG2	1:N:33:ARG:N	2.31	0.46
3:P:1087:ASP:HB3	3:P:1096:PRO:HB3	1.97	0.46
2:O:1335:ILE:HG22	3:P:22:ILE:HG22	1.98	0.46
3:P:527:LEU:HD22	3:P:532:GLU:CD	2.36	0.46
6:4:49:DG:C3'	6:4:49:DG:C8	2.97	0.46
1:B:68:TYR:HA	1:B:79:LEU:HD21	1.96	0.46
2:C:540:ARG:NH1	2:C:567:PRO:CB	2.78	0.46
2:C:790:ASP:O	2:C:792:GLY:N	2.48	0.46
3:D:114:ILE:HG13	3:D:118:LYS:HG2	1.97	0.46
3:D:1253:ILE:O	3:D:1257:VAL:HG23	2.15	0.46
4:E:18:ASP:O	4:E:22:VAL:HG23	2.15	0.46
1:H:68:TYR:CD2	1:H:68:TYR:N	2.83	0.46
2:I:375:PRO:HB3	5:L:87:VAL:CG2	2.45	0.46
2:I:184:LEU:CD2	2:I:389:PHE:CE2	2.85	0.46
3:J:131:PRO:O	3:J:135:ILE:CG1	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:839:VAL:HG12	3:J:839:VAL:O	2.14	0.46
3:J:899:TYR:CD1	3:J:915:ILE:HD13	2.50	0.46
2:O:1073:LYS:HG3	3:P:462:ASP:HB3	1.97	0.46
2:O:112:GLY:C	2:O:114:VAL:N	2.69	0.46
3:P:950:ILE:HB	3:P:1018:ALA:CB	2.43	0.46
3:P:1252:HIS:HA	3:P:1255:VAL:HG23	1.97	0.46
3:P:245:LEU:HD23	3:P:250:ARG:HG2	1.98	0.46
4:Q:54:ILE:HG12	4:Q:59:ILE:CB	2.44	0.46
6:1:17:DA:H1'	6:1:18:DC:O4'	2.14	0.46
7:2:12:DG:O3'	7:2:13:DA:P	2.74	0.46
2:C:1141:LEU:C	2:C:1145:ILE:HD12	2.36	0.46
2:C:34:SER:OG	2:C:455:SER:HB2	2.15	0.46
3:D:1180:VAL:CG2	3:D:1181:ASP:N	2.78	0.46
3:D:127:LEU:HD23	3:D:223:LEU:HD13	1.98	0.46
3:D:262:THR:CA	5:F:507:MET:CE	2.91	0.46
3:D:492:SER:CB	3:D:495:ASN:OD1	2.63	0.46
3:D:638:SER:C	3:D:639:VAL:CG2	2.83	0.46
3:D:725:MET:HE1	3:D:732:GLY:H	1.78	0.46
3:D:95:THR:O	3:D:95:THR:HG22	2.15	0.46
5:F:453:PRO:O	5:F:457:ILE:HG12	2.15	0.46
5:F:555:GLU:O	5:F:559:LEU:HG	2.15	0.46
2:I:1246:ARG:CD	2:I:1265:PHE:O	2.63	0.46
2:I:1257:GLN:HG2	2:I:1295:SER:HB3	1.97	0.46
2:I:253:PHE:O	2:I:255:ILE:HD12	2.15	0.46
2:I:806:PRO:HA	2:I:811:ASN:ND2	2.29	0.46
3:J:265:LEU:HD21	3:J:326:SER:HA	1.96	0.46
3:J:379:PRO:CG	3:J:380:PHE:H	2.26	0.46
3:J:645:VAL:HG22	3:J:701:LEU:HD13	1.96	0.46
3:J:863:LEU:HD22	3:J:908:ILE:HG13	1.97	0.46
4:K:46:THR:OG1	4:K:47:THR:N	2.48	0.46
5:L:279:ARG:O	5:L:283:GLN:HG2	2.15	0.46
2:O:1111:GLN:O	2:O:1115:THR:OG1	2.32	0.46
2:O:1192:GLU:OE2	3:P:764:ARG:NH2	2.39	0.46
2:O:663:VAL:HG12	2:O:664:GLY:N	2.30	0.46
2:O:708:VAL:CG1	2:O:794:LEU:HD22	2.45	0.46
3:P:111:THR:HG21	3:P:303:VAL:HG21	1.98	0.46
2:O:1285:TYR:CD2	3:P:1361:THR:CG2	2.98	0.46
5:R:166:VAL:HG12	5:R:168:PRO:CD	2.38	0.46
7:2:26:DT:H3'	7:2:27:DA:C5'	2.46	0.46
1:B:140:ILE:HD12	1:B:141:SER:H	1.80	0.46
2:C:642:SER:O	2:C:643:SER:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1062:LEU:HD13	3:D:1066:GLU:HB3	1.98	0.46
3:D:690:ASN:ND2	3:D:690:ASN:C	2.68	0.46
5:F:364:ARG:O	5:F:367:ILE:HB	2.15	0.46
3:D:136:GLU:OE1	5:F:93:ARG:HB2	2.15	0.46
1:G:52:PRO:O	1:G:179:PRO:HG3	2.15	0.46
1:G:208:ASN:ND2	1:G:208:ASN:H	2.12	0.46
2:I:173:ASN:HB3	2:I:187:GLU:HB3	1.98	0.46
2:I:22:LEU:HG	2:I:23:ASP:H	1.80	0.46
2:I:890:LYS:HG3	2:I:914:LYS:HG3	1.97	0.46
3:J:1229:VAL:HG13	3:J:1230:THR:N	2.31	0.46
3:J:154:LEU:CD2	3:J:158:GLN:HG2	2.46	0.46
3:J:915:ILE:O	3:J:915:ILE:HG22	2.15	0.46
2:O:498:ILE:HG13	2:O:498:ILE:H	1.53	0.46
3:P:427:PRO:HG2	3:P:429:LEU:HD21	1.98	0.46
3:P:759:ILE:HG12	3:P:771:GLN:CG	2.46	0.46
5:R:556:ALA:O	5:R:560:ARG:HG3	2.15	0.46
6:1:34:DG:N2	7:2:30:DA:C2	2.84	0.46
6:7:45:DT:H3'	6:7:46:DG:O4'	2.16	0.46
1:A:107:ILE:H	1:A:107:ILE:HG13	1.59	0.46
1:A:150:ARG:HD2	1:B:6:THR:HA	1.98	0.46
2:C:1334:GLY:O	2:C:1335:ILE:HG12	2.15	0.46
2:C:448:LEU:HB2	2:C:553:THR:HB	1.97	0.46
2:C:557:ARG:NH2	2:C:608:ALA:HA	2.31	0.46
3:D:1029:THR:HG22	3:D:1099:TYR:CD1	2.51	0.46
3:D:1224:ARG:CD	3:D:1228:ALA:CB	2.90	0.46
3:D:544:LEU:CD2	3:D:578:ILE:CD1	2.85	0.46
5:F:547:VAL:CG1	5:F:598:LEU:CD2	2.94	0.46
1:G:224:LEU:HD12	1:G:224:LEU:C	2.36	0.46
2:I:149:LEU:HA	2:I:453:ILE:CD1	2.44	0.46
3:J:1223:LEU:HD23	3:J:1223:LEU:HA	1.77	0.46
3:J:20:ILE:HD11	3:J:1344:LEU:HD21	1.98	0.46
3:J:367:GLY:HA3	3:J:448:GLN:HB2	1.97	0.46
3:J:381:ILE:HD11	3:J:412:LEU:HD13	1.98	0.46
2:O:191:LYS:O	2:O:192:ASP:HB2	2.16	0.46
2:O:333:ILE:CG2	2:O:334:GLU:H	2.28	0.46
3:P:1355:ARG:HD3	3:P:1369:ARG:HH12	1.80	0.46
3:P:517:CYS:CB	3:P:545:HIS:CB	2.93	0.46
3:P:646:ILE:HG13	3:P:646:ILE:H	1.56	0.46
5:R:144:LEU:HD13	5:R:165:PHE:CE2	2.51	0.46
5:R:390:ILE:CD1	5:R:432:THR:HA	2.46	0.46
6:7:12:DA:H2''	6:7:13:DC:O5'	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3:TYR:HD1	2:C:7:GLU:OE1	1.99	0.46
2:C:972:PHE:HE2	2:C:994:ARG:O	1.99	0.46
3:D:497:GLU:HB3	3:D:498:PRO:CD	2.42	0.46
3:D:575:GLY:HA2	3:D:578:ILE:HD12	1.98	0.46
4:E:84:THR:O	4:E:88:GLU:HG3	2.15	0.46
1:H:208:ASN:O	1:H:210:THR:N	2.47	0.46
2:I:12:ARG:HA	2:I:1181:PRO:O	2.15	0.46
2:I:149:LEU:HD11	2:I:451:ARG:CZ	2.45	0.46
2:I:496:LYS:NZ	7:5:24:DT:H5'	2.30	0.46
2:I:565:GLU:O	2:I:567:PRO:CD	2.64	0.46
3:J:664:ILE:HD12	3:J:685:ILE:CD1	2.46	0.46
1:N:83:LEU:HD13	1:N:86:LYS:HE3	1.98	0.46
2:O:112:GLY:C	2:O:114:VAL:H	2.15	0.46
3:P:1343:GLU:O	3:P:1344:LEU:CB	2.62	0.46
3:P:816:THR:HG23	3:P:818:GLU:H	1.80	0.46
4:Q:78:ALA:O	4:Q:81:GLN:CG	2.64	0.46
5:R:461:ASN:N	5:R:461:ASN:OD1	2.46	0.46
5:R:537:THR:O	5:R:540:LEU:HB3	2.15	0.46
2:C:112:GLY:O	2:C:114:VAL:N	2.48	0.46
1:A:41:ASN:ND2	2:C:1218:GLY:HA2	2.29	0.46
2:C:539:THR:CG2	2:C:540:ARG:H	2.26	0.46
2:C:73:TYR:HB3	2:C:98:VAL:HG22	1.98	0.46
3:D:64:PRO:HG3	3:D:91:GLU:O	2.16	0.46
3:D:733:SER:H	3:D:736:GLN:HG3	1.81	0.46
3:D:903:LEU:HA	3:D:903:LEU:HD23	1.75	0.46
2:I:1252:SER:HB2	2:I:1259:LEU:CD2	2.43	0.46
2:I:755:LYS:NZ	2:I:769:PRO:HD3	2.23	0.46
3:J:1173:ARG:C	3:J:1190:ILE:HD12	2.35	0.46
3:J:1356:LEU:C	3:J:1357:ILE:HD12	2.35	0.46
4:K:26:ARG:NH2	4:K:30:MET:HG2	2.31	0.46
1:N:185:TYR:CD2	1:N:185:TYR:O	2.69	0.46
2:O:678:ARG:HB3	2:O:1108:ASN:HD22	1.80	0.46
3:P:102:MET:CG	3:P:246:PRO:HD3	2.46	0.46
3:P:1158:GLU:HA	3:P:1223:LEU:HD13	1.98	0.46
2:O:1283:ALA:HB1	3:P:479:GLU:CD	2.36	0.46
3:P:68:TYR:C	3:P:92:VAL:HG13	2.36	0.46
3:P:998:PRO:HG2	3:P:1020:TRP:CE2	2.50	0.46
5:R:97:PRO:HA	5:R:100:MET:HG3	1.98	0.46
1:A:108:GLY:O	1:A:133:LEU:HB2	2.15	0.46
2:C:1042:LEU:HD13	2:C:1049:ILE:HD12	1.98	0.46
2:C:447:HIS:CD2	2:C:449:GLY:H	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:117:LEU:HD13	3:D:124:ILE:HD12	1.97	0.46
3:D:1257:VAL:CA	3:D:1260:MET:HE3	2.41	0.46
2:C:1077:SER:CB	3:D:356:THR:HG22	2.46	0.46
3:D:363:LEU:HG	3:D:487:THR:HG22	1.98	0.46
3:D:421:VAL:HG12	3:D:422:LEU:H	1.81	0.46
3:D:501:VAL:CG1	3:D:502:PRO:CD	2.94	0.46
5:F:310:GLU:CD	5:F:355:ILE:HG21	2.37	0.46
2:I:14:ASP:OD2	2:I:1156:ARG:CZ	2.63	0.46
2:I:1247:SER:OG	2:I:1248:THR:N	2.47	0.46
2:I:419:ILE:HG12	2:I:419:ILE:H	1.56	0.46
2:I:599:VAL:CG2	2:I:623:LEU:HD21	2.46	0.46
3:J:301:GLU:HB2	3:J:312:ARG:NH2	2.30	0.46
3:J:519:ASN:HB3	3:J:523:GLU:CG	2.45	0.46
3:J:734:ALA:O	3:J:737:ILE:HB	2.16	0.46
3:J:909:ILE:HG12	3:J:910:ASN:O	2.16	0.46
5:L:105:MET:HE3	5:L:385:ARG:HG2	1.98	0.46
1:M:232:VAL:HG13	1:N:218:ARG:HG3	1.93	0.46
2:O:91:THR:CG2	2:O:138:ILE:HA	2.43	0.46
2:O:260:LYS:NZ	2:O:262:TYR:OH	2.49	0.46
2:O:120:GLN:HG2	2:O:489:PRO:HG2	1.98	0.46
2:O:550:VAL:HG21	3:P:776:THR:HG21	1.89	0.46
2:O:719:LYS:CD	2:O:751:TYR:HE1	2.29	0.46
2:O:88:ARG:HB3	2:O:90:VAL:HG23	1.97	0.46
2:O:913:VAL:CG1	2:O:914:LYS:N	2.79	0.46
2:O:1073:LYS:HE3	3:P:462:ASP:HB2	1.98	0.46
3:P:476:ALA:HA	3:P:479:GLU:HG2	1.98	0.46
3:P:555:TYR:CB	3:P:586:GLY:HA2	2.46	0.46
3:P:803:VAL:HG12	3:P:1259:GLN:CB	2.46	0.46
2:O:898:GLU:CD	5:R:565:ILE:CG2	2.85	0.46
7:2:12:DG:O3'	7:2:13:DA:H5'	2.16	0.45
5:R:423:ARG:NH1	6:7:37:DA:C4	2.83	0.45
1:B:33:ARG:N	1:B:198:LEU:HD12	2.29	0.45
1:B:79:LEU:H	1:B:79:LEU:HG	1.43	0.45
2:C:678:ARG:HH12	2:C:1106:ARG:HD2	1.77	0.45
2:C:196:VAL:HG12	2:C:198:ILE:HG13	1.96	0.45
2:C:251:ALA:HB2	2:C:263:VAL:CG1	2.46	0.45
2:C:788:SER:OG	2:C:796:LEU:HA	2.16	0.45
2:C:845:LEU:O	2:C:889:PRO:HB2	2.15	0.45
2:C:980:VAL:CG1	2:C:980:VAL:O	2.63	0.45
3:D:150:GLY:HA3	3:D:175:GLU:HB3	1.98	0.45
3:D:673:VAL:HG13	3:D:678:ARG:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:261:LEU:HD23	5:F:261:LEU:HA	1.76	0.45
5:F:354:THR:O	5:F:358:VAL:HG23	2.16	0.45
1:G:225:ALA:O	1:G:228:LEU:HB2	2.16	0.45
2:I:1301:ARG:HG2	2:I:1302:THR:N	2.31	0.45
2:I:213:LEU:HA	2:I:213:LEU:HD23	1.79	0.45
2:I:448:LEU:CD2	2:I:553:THR:OG1	2.64	0.45
2:I:559:CYS:CB	2:I:662:SER:HB3	2.36	0.45
2:I:1294:LYS:HE2	3:J:349:TYR:HB2	1.97	0.45
3:J:629:PHE:O	3:J:632:ALA:HB3	2.15	0.45
3:J:923:ILE:CD1	3:J:1253:ILE:HG12	2.46	0.45
4:K:79:GLU:HG2	4:K:83:VAL:CG2	2.44	0.45
1:M:210:THR:HG22	1:M:211:ILE:CD1	2.46	0.45
2:O:1120:ALA:HB2	2:O:1199:LEU:CD2	2.46	0.45
2:O:247:ARG:CG	2:O:274:ILE:HD13	2.27	0.45
2:O:726:TYR:HE2	2:O:728:ASP:HB2	1.81	0.45
2:O:928:VAL:HG22	2:O:1054:LEU:CD2	2.46	0.45
3:P:113:HIS:CA	3:P:239:LEU:HD11	2.46	0.45
3:P:259:ARG:NH1	5:R:502:LYS:CD	2.79	0.45
3:P:698:MET:O	3:P:702:GLN:CB	2.64	0.45
6:1:54:DA:H1'	6:1:55:DC:H5'	1.98	0.45
5:R:429:THR:OG1	6:7:39:DA:H8	1.84	0.45
1:B:61:ILE:CG2	1:B:140:ILE:HD11	2.46	0.45
1:B:67:GLU:O	1:B:78:ILE:HB	2.16	0.45
2:C:1227:VAL:CG1	2:C:1228:GLY:N	2.75	0.45
2:C:1321:GLU:O	2:C:1325:VAL:HG23	2.16	0.45
2:C:13:LYS:O	2:C:1183:ALA:N	2.40	0.45
2:C:446:ASP:N	2:C:446:ASP:OD1	2.49	0.45
2:C:46:GLN:O	2:C:46:GLN:HG3	2.16	0.45
3:D:483:LEU:HD21	4:E:16:ARG:HB3	1.96	0.45
3:D:622:ASP:O	3:D:625:MET:HE2	2.16	0.45
3:D:782:GLY:O	3:D:935:PHE:HB3	2.17	0.45
5:F:547:VAL:HG11	5:F:598:LEU:CD2	2.45	0.45
1:H:195:ARG:HA	1:H:195:ARG:HD3	1.46	0.45
2:I:1081:PRO:HB3	2:I:1083:GLU:OE1	2.16	0.45
2:I:164:THR:O	2:I:165:HIS:CB	2.57	0.45
2:I:542:ARG:CZ	6:4:50:DT:C7	2.94	0.45
2:I:693:LEU:O	2:I:693:LEU:HD12	2.16	0.45
3:J:1148:ARG:HG2	6:4:56:DG:OP1	2.16	0.45
3:J:115:TRP:CH2	3:J:1329:THR:CA	2.81	0.45
3:J:609:TYR:HA	3:J:617:THR:HG21	1.98	0.45
5:L:333:VAL:HG13	5:L:337:VAL:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:489:MET:HB2	5:L:494:ILE:CD1	2.46	0.45
1:N:104:LYS:HG3	1:N:105:SER:H	1.80	0.45
2:O:1330:ILE:HG22	2:O:1335:ILE:HB	1.98	0.45
2:O:672:GLU:OE2	2:O:673:HIS:NE2	2.50	0.45
2:O:896:THR:HG23	2:O:899:GLU:N	2.29	0.45
3:P:245:LEU:HD21	3:P:249:LEU:HB2	1.98	0.45
3:P:322:ARG:CB	3:P:323:PRO:CD	2.86	0.45
5:R:511:ILE:CG1	5:R:517:SER:HB2	2.46	0.45
6:4:30:DG:C2	7:5:34:DG:C2	3.04	0.45
1:A:179:PRO:HA	1:A:208:ASN:ND2	2.30	0.45
1:A:45:ARG:HA	2:C:1083:GLU:HG2	1.98	0.45
2:C:188:PHE:CE2	2:C:436:ARG:HB2	2.52	0.45
2:C:459:MET:HB3	2:C:505:PHE:CE1	2.51	0.45
2:C:725:GLN:HB2	2:C:735:LYS:HG3	1.98	0.45
2:C:896:THR:HG22	2:C:899:GLU:OE1	2.17	0.45
3:D:1365:TYR:O	3:D:1368:ASP:HB2	2.17	0.45
3:D:147:ILE:HG13	3:D:178:ALA:HA	1.96	0.45
3:D:744:ARG:H	3:D:759:ILE:HG22	1.81	0.45
5:F:390:ILE:CD1	5:F:432:THR:HA	2.47	0.45
2:I:873:ILE:HD11	2:I:944:ARG:HH12	1.81	0.45
3:J:68:TYR:CD2	3:J:78:LEU:CD2	2.99	0.45
2:I:618:GLN:HE21	3:J:769:VAL:HB	1.81	0.45
5:L:552:THR:O	5:L:555:GLU:N	2.49	0.45
1:M:54:CYS:O	1:M:55:ALA:HB2	2.15	0.45
1:N:64:VAL:HG21	1:N:71:LYS:HD2	1.98	0.45
1:N:68:TYR:CD1	1:N:79:LEU:HD21	2.51	0.45
2:O:1108:ASN:C	2:O:1109:ILE:HD13	2.36	0.45
2:O:203:LYS:O	2:O:204:LEU:HD23	2.16	0.45
2:O:417:SER:HB2	2:O:419:ILE:HG12	1.99	0.45
2:O:834:GLN:HG3	2:O:835:GLU:N	2.32	0.45
3:P:923:ILE:HD11	3:P:1252:HIS:CB	2.46	0.45
3:P:1286:LYS:O	3:P:1290:ARG:HG3	2.15	0.45
3:P:934:THR:O	3:P:934:THR:HG22	2.15	0.45
5:R:440:THR:C	5:R:443:ILE:HG22	2.36	0.45
1:B:61:ILE:CD1	1:B:171:LEU:HD13	2.46	0.45
2:C:448:LEU:HA	2:C:448:LEU:HD23	1.45	0.45
2:C:808:ASN:HA	3:D:629:PHE:HB3	1.98	0.45
2:C:83:GLN:O	2:C:86:GLN:HB2	2.16	0.45
3:D:1046:ILE:HG22	3:D:1061:VAL:HA	1.98	0.45
3:D:205:LEU:HA	3:D:205:LEU:HD23	1.50	0.45
3:D:492:SER:HG	3:D:495:ASN:CG	2.10	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:793:SER:O	3:D:796:LEU:HB3	2.16	0.45
5:F:91:ILE:CD1	5:F:103:ARG:NH1	2.61	0.45
1:G:47:LEU:HD12	1:G:183:ILE:HD13	1.96	0.45
2:I:558:VAL:CG1	2:I:559:CYS:N	2.79	0.45
3:J:1173:ARG:O	3:J:1190:ILE:HB	2.17	0.45
3:J:1255:VAL:HG12	3:J:1256:ILE:N	2.31	0.45
3:J:115:TRP:HE3	3:J:1333:THR:CG2	2.29	0.45
3:J:289:ASP:O	3:J:293:ARG:HG3	2.17	0.45
3:J:27:PRO:O	3:J:31:ARG:HG3	2.17	0.45
3:J:354:VAL:HG12	3:J:355:ILE:N	2.30	0.45
2:O:1109:ILE:HA	2:O:1112:ILE:HD12	1.97	0.45
2:O:1278:LEU:HD11	2:O:1286:THR:HB	1.97	0.45
2:O:1292:THR:CG2	2:O:1293:VAL:H	2.23	0.45
2:O:213:LEU:HD22	2:O:422:LYS:HD2	1.98	0.45
2:O:734:ILE:CG2	2:O:751:TYR:HE2	2.29	0.45
3:P:1317:GLU:O	3:P:1318:SER:CB	2.63	0.45
3:P:154:LEU:HA	3:P:154:LEU:HD23	1.74	0.45
3:P:548:VAL:HG12	3:P:549:LYS:N	2.31	0.45
5:R:410:ILE:O	5:R:413:MET:HB2	2.15	0.45
6:1:25:DC:H2'	6:1:26:DT:H72	1.99	0.45
1:A:11:PRO:HB3	1:A:30:PRO:O	2.16	0.45
2:C:145:ILE:H	2:C:145:ILE:HG13	1.48	0.45
2:C:211:ARG:CG	2:C:211:ARG:HH11	2.28	0.45
2:C:575:LEU:CD1	2:C:579:ALA:HB3	2.24	0.45
2:C:718:ALA:HB2	2:C:783:LEU:HD11	1.99	0.45
3:D:1132:LYS:HB3	3:D:1133:ASP:H	1.55	0.45
3:D:1167:LYS:NZ	3:D:1187:GLU:OE2	2.25	0.45
2:C:1274:GLU:HA	3:D:428:THR:HG21	1.98	0.45
3:D:471:PRO:CB	3:D:476:ALA:HB1	2.47	0.45
3:D:572:THR:OG1	3:D:573:THR:N	2.48	0.45
3:D:697:MET:O	3:D:701:LEU:HB2	2.17	0.45
3:D:814:CYS:SG	3:D:816:THR:OG1	2.75	0.45
3:D:835:LEU:HD12	3:D:839:VAL:HG23	1.98	0.45
2:C:897:PRO:HB3	5:F:563:PHE:O	2.16	0.45
2:I:1002:LEU:HB3	2:I:1003:THR:H	1.54	0.45
2:I:192:ASP:CG	2:I:436:ARG:HH21	2.18	0.45
2:I:505:PHE:O	2:I:509:SER:HB3	2.17	0.45
2:I:61:SER:HB3	2:I:66:SER:O	2.17	0.45
3:J:128:LEU:HD11	3:J:189:LEU:CD2	2.41	0.45
3:J:730:ALA:O	3:J:731:ARG:CB	2.62	0.45
3:J:797:THR:HG23	3:J:924:GLY:CA	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:909:ILE:CD1	3:J:913:GLU:HB3	2.42	0.45
1:M:107:ILE:HG13	1:M:136:GLU:HB3	1.99	0.45
2:O:839:VAL:HG13	2:O:1049:ILE:HG23	1.98	0.45
2:O:1333:LEU:CB	2:O:1335:ILE:CD1	2.94	0.45
3:P:34:SER:CB	3:P:104:HIS:HB3	2.47	0.45
3:P:1103:GLY:O	3:P:1104:LYS:HB2	2.16	0.45
3:P:135:ILE:HG13	3:P:135:ILE:H	1.20	0.45
5:R:386:LEU:HD13	6:7:41:DT:N1	2.31	0.45
1:A:140:ILE:CG1	1:A:141:SER:N	2.78	0.45
2:C:263:VAL:HG13	2:C:269:ILE:CD1	2.47	0.45
2:C:593:LYS:HA	2:C:652:TYR:CE1	2.52	0.45
2:C:772:SER:OG	2:C:773:LEU:N	2.49	0.45
3:D:1005:LYS:HD2	3:D:1011:VAL:HG12	1.99	0.45
5:F:564:GLY:C	5:F:567:MET:O	2.54	0.45
5:F:604:SER:HB3	5:F:607:LEU:HB2	1.99	0.45
2:I:310:ILE:HD13	2:I:324:LYS:HB3	1.98	0.45
2:I:883:LEU:CD2	2:I:920:VAL:HG22	2.36	0.45
3:J:470:VAL:HB	3:J:472:LEU:HD21	1.99	0.45
3:J:706:VAL:HA	3:J:714:GLU:O	2.16	0.45
3:J:880:VAL:CG1	3:J:881:LYS:N	2.80	0.45
1:N:208:ASN:O	1:N:210:THR:N	2.40	0.45
3:P:1169:THR:O	3:P:1170:LYS:HB2	2.17	0.45
3:P:27:PRO:O	3:P:31:ARG:HG3	2.17	0.45
3:P:435:GLN:HB2	3:P:457:TYR:OH	2.17	0.45
3:P:322:ARG:NE	5:R:510:PRO:CD	2.71	0.45
6:1:47:DC:H6	6:1:47:DC:H5"	1.81	0.45
6:4:25:DC:C2'	6:4:26:DT:H72	2.46	0.45
6:7:53:DG:C5	6:7:54:DA:N6	2.85	0.45
1:A:110:VAL:HG13	1:A:114:ASP:HB2	1.99	0.45
1:B:175:ALA:HB1	1:B:177:TYR:CE2	2.52	0.45
1:B:190:ALA:H	1:B:199:ASP:HA	1.81	0.45
2:C:873:ILE:H	2:C:873:ILE:HG13	1.37	0.45
3:D:109:SER:HB2	3:D:296:LYS:HE2	1.99	0.45
3:D:347:VAL:CG1	3:D:469:HIS:HE1	2.28	0.45
1:G:120:ASP:OD1	1:G:120:ASP:N	2.48	0.45
2:I:96:LEU:CB	2:I:127:ILE:HD11	2.36	0.45
2:I:351:LEU:O	2:I:354:ASP:HB3	2.17	0.45
3:J:245:LEU:HG	3:J:246:PRO:N	2.31	0.45
3:J:515:ARG:HH21	3:J:717:VAL:HB	1.82	0.45
3:J:78:LEU:N	3:J:78:LEU:HD23	2.31	0.45
3:J:883:ARG:NE	3:J:898:CYS:SG	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:385:ARG:HA	5:L:388:ILE:HG23	1.97	0.45
1:N:40:GLY:HA2	1:N:43:LEU:HD12	1.99	0.45
2:O:589:THR:HG22	2:O:590:PRO:CD	2.46	0.45
3:P:1217:PRO:HA	3:P:1220:ILE:HD12	1.99	0.45
2:O:1294:LYS:HB3	3:P:347:VAL:CG1	2.46	0.45
3:P:572:THR:HG1	3:P:576:ARG:HB2	1.82	0.45
3:P:840:LEU:CD1	3:P:869:CYS:SG	2.91	0.45
3:P:82:GLY:HA2	3:P:91:GLU:OE2	2.16	0.45
3:P:398:LYS:HE3	5:R:532:LEU:HD21	1.84	0.45
1:A:93:GLN:HB2	1:A:120:ASP:HB2	1.98	0.45
1:B:228:LEU:HD23	1:B:228:LEU:HA	1.45	0.45
2:C:1338:GLU:O	3:D:20:ILE:HG23	2.17	0.45
2:C:489:PRO:HA	2:C:492:MET:SD	2.57	0.45
3:D:1250:ASP:OD1	3:D:1250:ASP:N	2.49	0.45
3:D:227:PHE:HE1	3:D:234:PRO:CD	2.29	0.45
3:D:544:LEU:HA	3:D:574:VAL:CB	2.42	0.45
3:D:647:PRO:HD3	3:D:697:MET:HG3	1.97	0.45
3:D:643:ASP:C	3:D:722:ILE:HD11	2.37	0.45
1:G:149:GLY:HA3	1:G:177:TYR:CZ	2.51	0.45
1:H:39:LEU:C	1:H:43:LEU:CD1	2.86	0.45
2:I:1138:VAL:HA	2:I:1141:LEU:HD12	1.98	0.45
2:I:1287:LEU:O	2:I:1287:LEU:HD12	2.17	0.45
3:J:1270:GLY:HA2	3:J:1298:VAL:O	2.17	0.45
3:J:541:LEU:HD23	3:J:541:LEU:HA	1.64	0.45
3:J:708:ASN:HA	3:J:712:GLN:O	2.17	0.45
3:J:886:VAL:HA	3:J:1258:ARG:HG3	1.98	0.45
5:L:592:ALA:O	5:L:595:LEU:HB2	2.17	0.45
1:M:47:LEU:CD2	1:M:220:ALA:HB2	2.47	0.45
2:O:1061:GLN:CB	2:O:1062:PRO:HD2	2.47	0.45
2:O:1294:LYS:HB3	3:P:347:VAL:HG13	1.99	0.45
2:O:1326:LEU:HG	2:O:1330:ILE:HD11	1.98	0.45
2:O:208:ILE:HG12	2:O:362:ALA:HB1	1.99	0.45
2:O:245:ARG:HD3	2:O:337:PHE:CE1	2.51	0.45
2:O:736:VAL:HG12	2:O:737:ASN:O	2.16	0.45
3:P:48:THR:C	3:P:50:LYS:H	2.20	0.45
3:P:604:MET:HE2	3:P:604:MET:HB2	1.58	0.45
3:P:689:ALA:O	3:P:693:VAL:HG23	2.17	0.45
5:R:407:GLU:CG	5:R:442:SER:HB3	2.36	0.45
5:R:502:LYS:HE2	5:R:505:ILE:HD11	1.98	0.45
5:R:511:ILE:HD11	5:R:517:SER:HB2	1.99	0.45
7:2:25:DA:C2'	7:2:26:DT:H5''	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:MET:HB3	1:A:179:PRO:HD2	1.99	0.45
1:B:167:PRO:HD2	1:B:170:ARG:CB	2.47	0.45
2:C:181:GLY:HA3	2:C:395:TYR:CD1	2.52	0.45
2:C:533:LEU:HD23	2:C:538:LEU:O	2.17	0.45
2:C:88:ARG:NH2	2:C:1035:LYS:O	2.47	0.45
2:C:73:TYR:HB2	2:C:96:LEU:HD11	1.99	0.45
3:D:1229:VAL:CG1	3:D:1230:THR:N	2.79	0.45
3:D:216:LYS:HE2	3:D:219:LYS:HB2	1.99	0.45
3:D:297:ARG:NH1	5:F:100:MET:HB2	2.32	0.45
3:D:425:ARG:HG2	3:D:426:ALA:N	2.32	0.45
3:D:366:CYS:SG	3:D:437:PHE:HB2	2.57	0.45
3:D:536:LEU:CD1	3:D:542:ALA:HB2	2.38	0.45
3:D:706:VAL:HG11	3:D:713:GLU:OE1	2.17	0.45
3:D:79:LYS:HB2	5:F:569:THR:HG22	1.98	0.45
5:F:305:LEU:HD23	5:F:305:LEU:HA	1.78	0.45
1:H:223:ILE:HG22	1:H:227:GLN:HE21	1.82	0.45
2:I:1064:ASP:O	2:I:1076:ILE:HD12	2.17	0.45
2:I:1298:VAL:HG22	2:I:1301:ARG:NH2	2.32	0.45
2:I:1315:MET:HA	2:I:1315:MET:HE1	1.98	0.45
2:I:269:ILE:HD13	2:I:269:ILE:HA	1.67	0.45
2:I:149:LEU:HB2	2:I:453:ILE:HD11	1.98	0.45
2:I:850:ILE:HG13	2:I:850:ILE:H	1.64	0.45
2:I:748:ILE:HD12	2:I:967:LEU:HA	1.98	0.45
3:J:120:LEU:HD23	3:J:121:PRO:HA	1.99	0.45
3:J:622:ASP:O	3:J:625:MET:HB3	2.16	0.45
4:K:31:GLN:OE1	4:K:46:THR:HG21	2.17	0.45
2:O:1155:VAL:HG22	2:O:1157:GLN:H	1.82	0.45
3:P:185:ILE:HG23	3:P:189:LEU:CD1	2.47	0.45
5:R:137:TYR:CE2	5:R:139:GLU:HB2	2.52	0.45
5:R:443:ILE:HG23	5:R:444:ALA:N	2.32	0.45
2:C:575:LEU:HD12	2:C:576:SER:N	2.32	0.45
3:D:260:PHE:O	5:F:505:ILE:N	2.47	0.45
3:D:109:SER:HB3	3:D:299:LEU:HD22	1.98	0.45
3:D:423:LEU:HB3	3:D:466:MET:CE	2.47	0.45
3:D:492:SER:HB2	3:D:499:ILE:HD12	1.99	0.45
3:D:579:LEU:HD21	3:D:627:THR:HG21	1.98	0.45
5:F:401:PHE:HB2	5:F:402:LEU:HD23	1.99	0.45
5:F:489:MET:HB3	5:F:490:PRO:CD	2.47	0.45
5:F:503:GLU:HB3	5:F:504:PRO:HD2	1.98	0.45
2:I:1270:PHE:CZ	2:I:1274:GLU:HB3	2.52	0.45
2:I:149:LEU:O	2:I:149:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:753:LEU:CB	2:I:755:LYS:HE2	2.48	0.45
2:I:836:LEU:HD23	2:I:836:LEU:HA	1.75	0.45
2:I:842:ASP:OD1	2:I:842:ASP:N	2.50	0.45
2:I:874:GLY:CA	2:I:928:VAL:HB	2.46	0.45
3:J:498:PRO:HB2	3:J:501:VAL:CG2	2.46	0.45
3:J:502:PRO:HB2	3:J:601:ILE:HD13	1.98	0.45
3:J:814:CYS:SG	3:J:895:CYS:HB3	2.57	0.45
1:M:190:ALA:CB	1:M:199:ASP:HA	2.47	0.45
2:O:1109:ILE:O	2:O:1113:LEU:HD12	2.17	0.45
2:O:1326:LEU:C	2:O:1330:ILE:HD12	2.27	0.45
2:O:203:LYS:HE3	7:8:6:DG:OP1	2.17	0.45
2:O:617:ALA:HA	2:O:636:CYS:SG	2.57	0.45
2:O:653:MET:HG2	2:O:654:ASP:N	2.31	0.45
3:P:176:PHE:C	3:P:176:PHE:CD2	2.90	0.45
3:P:421:VAL:HG13	3:P:470:VAL:HA	1.98	0.45
3:P:429:LEU:HB3	3:P:925:GLU:HG2	1.99	0.45
2:O:808:ASN:HA	3:P:629:PHE:HB3	1.98	0.45
5:R:145:LEU:HD13	5:R:225:ARG:CZ	2.47	0.45
5:R:291:CYS:O	5:R:295:CYS:HB2	2.16	0.45
1:B:44:ARG:NH1	3:D:538:ARG:HD3	2.30	0.44
2:C:156:PHE:CE2	2:C:177:ILE:HD12	2.52	0.44
2:C:176:ILE:N	2:C:176:ILE:CD1	2.79	0.44
2:C:403:MET:CE	2:C:407:ARG:NH2	2.79	0.44
2:C:878:THR:HG23	2:C:925:SER:CB	2.44	0.44
2:C:971:LEU:O	2:C:975:ILE:HG13	2.17	0.44
3:D:1366:HIS:O	3:D:1370:MET:HG3	2.17	0.44
3:D:378:LYS:HG2	3:D:382:TYR:CE2	2.50	0.44
3:D:785:ASP:HB3	3:D:935:PHE:CZ	2.51	0.44
2:I:1223:ARG:HB2	2:I:1224:PRO:HD2	1.99	0.44
2:I:1233:LEU:HD23	2:I:1233:LEU:HA	1.61	0.44
2:I:200:ARG:HD2	6:4:50:DT:O2	2.18	0.44
2:I:209:ILE:CG2	2:I:210:LEU:N	2.79	0.44
2:I:240:GLU:CG	2:I:284:LEU:HD21	2.45	0.44
2:I:576:SER:HA	2:I:662:SER:HA	1.99	0.44
2:I:675:ASP:OD2	2:I:677:ASN:ND2	2.50	0.44
2:I:808:ASN:ND2	3:J:633:ALA:HB3	2.32	0.44
3:J:216:LYS:HG3	3:J:217:LEU:N	2.31	0.44
3:J:334:LYS:O	3:J:339:ARG:HB2	2.18	0.44
3:J:518:VAL:O	3:J:520:ALA:N	2.50	0.44
1:M:41:ASN:ND2	2:O:1218:GLY:HA3	2.27	0.44
2:O:289:VAL:HG12	2:O:289:VAL:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:719:LYS:HD3	2:O:751:TYR:HE1	1.82	0.44
3:P:609:TYR:CD2	3:P:614:LEU:HD13	2.53	0.44
3:P:864:LEU:HD23	3:P:864:LEU:HA	1.50	0.44
5:R:355:ILE:H	5:R:355:ILE:HG13	1.46	0.44
5:R:411:GLY:HA3	5:R:438:ALA:CB	2.47	0.44
5:R:540:LEU:O	5:R:544:THR:HG23	2.16	0.44
1:A:150:ARG:NH1	1:B:7:GLU:O	2.50	0.44
1:B:144:ILE:H	1:B:144:ILE:HD12	1.82	0.44
2:C:1293:VAL:HG12	2:C:1300:GLY:O	2.17	0.44
3:D:1022:PRO:O	3:D:1024:THR:N	2.43	0.44
3:D:427:PRO:HG2	3:D:429:LEU:HD21	2.00	0.44
3:D:50:LYS:HD3	3:D:71:LEU:HD21	1.95	0.44
3:D:653:ILE:H	3:D:653:ILE:HG13	1.57	0.44
3:D:836:ARG:HD2	3:D:869:CYS:HB3	1.99	0.44
1:H:62:ASP:OD1	1:H:141:SER:HB3	2.17	0.44
1:H:68:TYR:CB	3:P:857:LEU:CD1	2.82	0.44
2:I:983:GLY:HA3	2:I:1002:LEU:HD22	1.99	0.44
2:I:1326:LEU:HG	2:I:1327:LEU:N	2.27	0.44
2:I:267:ARG:HG3	2:I:268:ARG:N	2.32	0.44
3:J:1090:ILE:CG2	3:J:1091:PRO:HD2	2.47	0.44
3:J:1194:ARG:HH11	3:J:1211:SER:HB3	1.82	0.44
3:J:886:VAL:HG22	3:J:1258:ARG:HB2	1.98	0.44
3:J:115:TRP:CH2	3:J:1332:LEU:HD12	2.48	0.44
3:J:355:ILE:O	3:J:355:ILE:HG13	2.17	0.44
3:J:579:LEU:HD23	3:J:579:LEU:HA	1.46	0.44
3:J:582:ILE:CG2	3:J:620:PHE:HE1	2.22	0.44
3:J:703:THR:HG21	3:J:715:LYS:NZ	2.33	0.44
1:M:10:LYS:HA	1:M:11:PRO:HD3	1.88	0.44
1:M:11:PRO:HG2	1:N:231:PHE:HE2	1.82	0.44
1:N:57:THR:HG22	1:N:58:GLU:HG3	1.98	0.44
2:O:1238:LEU:HD23	2:O:1238:LEU:HA	1.78	0.44
2:O:387:ASN:HA	2:O:391:SER:HB2	1.99	0.44
2:O:598:VAL:HG13	2:O:627:GLY:C	2.38	0.44
3:P:1256:ILE:HG13	3:P:1256:ILE:H	1.39	0.44
3:P:147:ILE:HD11	3:P:179:LYS:CD	2.46	0.44
3:P:496:GLY:N	3:P:903:LEU:HD13	2.32	0.44
6:1:58:DG:H2"	6:1:59:DG:OP2	2.17	0.44
2:C:1272:GLU:HB3	2:C:1276:TRP:CZ2	2.53	0.44
2:C:550:VAL:HG23	3:D:780:ARG:HD2	1.98	0.44
2:C:616:ILE:CD1	2:C:652:TYR:CB	2.96	0.44
2:C:753:LEU:HD12	2:C:769:PRO:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1133:ASP:CG	3:D:1134:ILE:H	2.20	0.44
3:D:84:ILE:HG22	3:D:84:ILE:O	2.17	0.44
5:F:386:LEU:HD13	6:1:41:DT:O4'	2.18	0.44
2:I:1270:PHE:CG	2:I:1274:GLU:HB3	2.52	0.44
2:I:804:PHE:O	2:I:805:MET:HB3	2.16	0.44
3:J:521:LYS:HB2	3:J:543:SER:H	1.83	0.44
1:N:201:LEU:HG	1:N:203:ILE:HG13	2.00	0.44
1:N:26:VAL:HG12	1:N:28:LEU:HD23	1.99	0.44
2:O:82:VAL:CG2	2:O:83:GLN:N	2.80	0.44
3:P:373:ALA:CB	3:P:441:LEU:HD21	2.48	0.44
4:Q:12:LYS:HD2	4:Q:12:LYS:HA	1.33	0.44
5:R:290:LEU:O	5:R:294:GLN:HB3	2.17	0.44
5:R:440:THR:O	5:R:443:ILE:CG2	2.59	0.44
5:R:554:ARG:H	5:R:554:ARG:HG2	1.30	0.44
2:C:275:ARG:HH11	2:C:275:ARG:HG3	1.83	0.44
2:C:347:ILE:O	2:C:350:THR:HB	2.18	0.44
2:C:374:GLU:HG3	2:C:375:PRO:HD2	2.00	0.44
2:C:422:LYS:HA	2:C:425:ILE:HD12	1.99	0.44
2:C:74:ARG:O	2:C:96:LEU:HD12	2.17	0.44
3:D:1219:ASP:OD1	3:D:1219:ASP:N	2.50	0.44
3:D:255:LEU:HD22	3:D:257:GLY:H	1.81	0.44
3:D:321:LYS:HE3	3:D:321:LYS:HB2	1.79	0.44
3:D:835:LEU:HD11	3:D:839:VAL:CG2	2.47	0.44
3:D:493:PRO:CA	3:D:904:ALA:HB2	2.46	0.44
5:F:402:LEU:HD23	5:F:402:LEU:N	2.31	0.44
2:I:1085:MET:HE2	2:I:1094:VAL:HB	1.98	0.44
2:I:257:ALA:HB3	2:I:262:TYR:CE2	2.53	0.44
2:I:46:GLN:H	2:I:46:GLN:HG2	1.58	0.44
2:I:759:SER:CB	2:I:763:THR:HG1	2.23	0.44
3:J:1167:LYS:CD	3:J:1167:LYS:H	2.18	0.44
3:J:1296:GLY:O	3:J:1297:LYS:O	2.36	0.44
3:J:504:GLN:HB3	3:J:505:ASP:OD1	2.17	0.44
3:J:724:MET:O	3:J:728:SER:OG	2.26	0.44
3:J:927:GLY:O	3:J:931:THR:HG23	2.18	0.44
2:O:842:ASP:HB3	2:O:847:PRO:HA	2.00	0.44
3:P:1229:VAL:HG13	3:P:1230:THR:N	2.32	0.44
3:P:731:ARG:HD3	3:P:731:ARG:HA	1.72	0.44
3:P:809:VAL:HB	3:P:911:LYS:HA	1.99	0.44
7:5:21:DG:H2'	7:5:22:DA:O4'	2.17	0.44
7:5:27:DA:H2''	7:5:28:DG:H5'	1.98	0.44
2:C:130:MET:HB2	2:C:136:PHE:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:748:ILE:CD1	2:C:970:GLY:HA3	2.43	0.44
3:D:1044:GLN:OE1	3:D:1071:GLY:N	2.51	0.44
3:D:1102:PRO:HG2	3:D:1124:ILE:HD13	2.00	0.44
3:D:809:VAL:CG2	3:D:915:ILE:HD11	2.47	0.44
3:D:933:ARG:HG3	3:D:937:ILE:HD12	2.00	0.44
5:F:575:GLU:HG2	5:F:578:LYS:CE	2.34	0.44
5:F:583:THR:HG21	5:F:586:ARG:HB2	1.98	0.44
1:G:48:LEU:HA	1:G:48:LEU:HD23	1.68	0.44
1:G:8:PHE:CE1	1:H:223:ILE:HG12	2.52	0.44
2:I:1066:MET:CE	2:I:1233:LEU:O	2.59	0.44
2:I:1304:MET:HE3	2:I:1305:TYR:N	2.32	0.44
2:I:130:MET:HB2	2:I:136:PHE:CE1	2.52	0.44
2:I:560:PRO:HB2	3:J:776:THR:HG21	1.99	0.44
3:J:385:LEU:HD22	3:J:400:MET:HE1	2.00	0.44
3:J:490:ILE:HD11	3:J:614:LEU:HD11	1.99	0.44
3:J:384:LYS:NZ	4:K:45:LYS:HE3	2.33	0.44
1:M:134:THR:HB	2:O:726:TYR:CE1	2.52	0.44
3:P:233:LYS:HG2	3:P:234:PRO:HD2	1.99	0.44
5:R:379:MET:HG2	5:R:416:VAL:HG13	1.99	0.44
6:1:54:DA:C6	6:1:55:DC:C4	3.06	0.44
2:C:850:ILE:HD11	2:C:1048:LYS:HD3	1.99	0.44
2:C:1108:ASN:C	2:C:1109:ILE:HD13	2.38	0.44
2:C:190:PRO:HB2	2:C:191:LYS:HD2	1.98	0.44
2:C:519:ASN:OD1	2:C:519:ASN:N	2.51	0.44
2:C:57:PHE:CB	2:C:58:PRO:HA	2.43	0.44
3:D:34:SER:CB	3:D:104:HIS:HB3	2.48	0.44
3:D:210:SER:HB3	3:D:213:LYS:HD2	1.99	0.44
5:F:289:LYS:O	5:F:293:GLU:HB3	2.17	0.44
5:F:489:MET:CB	5:F:490:PRO:HD2	2.47	0.44
2:I:119:GLU:O	2:I:120:GLN:HB3	2.16	0.44
2:I:811:ASN:N	2:I:811:ASN:OD1	2.48	0.44
2:I:895:LEU:HD22	2:I:899:GLU:OE1	2.17	0.44
3:J:318:GLY:HA2	3:J:324:LEU:CD2	2.38	0.44
3:J:382:TYR:HD1	3:J:397:ALA:CB	2.30	0.44
3:J:433:GLY:O	3:J:457:TYR:CE1	2.70	0.44
5:L:552:THR:O	5:L:555:GLU:HB2	2.18	0.44
5:L:583:THR:O	5:L:587:ILE:CD1	2.64	0.44
1:M:26:VAL:HG21	1:M:217:ILE:HD11	2.00	0.44
1:N:14:VAL:HG21	1:N:29:GLU:OE2	2.17	0.44
2:O:1287:LEU:HA	2:O:1287:LEU:HD12	1.71	0.44
2:O:194:LEU:HG	2:O:206:ALA:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:758:ARG:HB2	2:O:833:ILE:HG22	1.99	0.44
2:O:1073:LYS:HE3	3:P:462:ASP:CG	2.37	0.44
3:P:513:MET:HB2	3:P:579:LEU:HD11	2.00	0.44
3:P:690:ASN:HA	3:P:743:MET:HE1	1.98	0.44
5:F:453:PRO:HG2	6:I:31:DT:OP1	2.16	0.44
1:A:45:ARG:CD	1:B:38:THR:CB	2.91	0.44
2:C:1112:ILE:HG23	2:C:1116:HIS:NE2	2.33	0.44
2:C:1292:THR:HG23	2:C:1293:VAL:H	1.82	0.44
3:D:126:LEU:HD23	3:D:216:LYS:HZ2	1.83	0.44
3:D:1314:LEU:HD23	3:D:1314:LEU:N	2.33	0.44
3:D:126:LEU:HD22	3:D:216:LYS:HZ1	1.83	0.44
3:D:382:TYR:HD1	3:D:397:ALA:CB	2.30	0.44
3:D:40:LYS:HZ3	3:D:53:ARG:HE	1.65	0.44
3:D:609:TYR:HA	3:D:617:THR:CG2	2.47	0.44
3:D:720:ASN:HD22	3:D:722:ILE:HG13	1.83	0.44
3:D:80:HIS:CD2	3:D:83:VAL:HG21	2.53	0.44
1:H:81:ILE:HG23	1:H:130:ILE:HG22	2.00	0.44
1:H:203:ILE:HD12	1:H:203:ILE:H	1.82	0.44
2:I:170:VAL:C	2:I:171:LEU:HD23	2.38	0.44
3:J:209:ASN:N	3:J:209:ASN:OD1	2.51	0.44
3:J:307:LEU:HD23	3:J:327:LEU:CD1	2.46	0.44
2:I:1243:MET:CG	3:J:372:MET:HE2	2.39	0.44
5:L:123:ILE:O	5:L:127:ILE:HG13	2.17	0.44
5:L:284:GLU:HG3	5:L:344:LEU:HD11	2.00	0.44
5:L:476:ARG:CG	5:L:477:GLU:H	2.29	0.44
5:L:573:LEU:HG	5:L:574:GLU:N	2.32	0.44
1:N:115:ILE:HA	1:N:115:ILE:HD13	1.88	0.44
3:P:530:PRO:HB2	3:P:581:MET:HG3	1.99	0.44
3:P:865:HIS:HB3	3:P:868:TRP:HD1	1.83	0.44
3:P:610:ARG:NH1	3:P:901:ARG:HH12	2.15	0.44
5:R:400:GLN:OE1	5:R:402:LEU:HD12	2.17	0.44
5:L:468:ARG:NH1	7:5:25:DA:C8	2.86	0.44
1:A:16:ILE:HA	1:A:26:VAL:CG2	2.33	0.44
2:C:807:TRP:HZ3	2:C:1086:PRO:CD	2.31	0.44
2:C:452:ARG:HH12	2:C:454:ARG:CG	2.29	0.44
2:C:557:ARG:HD3	2:C:587:LEU:CB	2.45	0.44
2:C:540:ARG:CZ	2:C:567:PRO:HB2	2.48	0.44
3:D:412:LEU:O	3:D:416:ILE:HG13	2.18	0.44
3:D:380:PHE:HB3	3:D:415:VAL:HG11	1.99	0.44
3:D:421:VAL:HG13	3:D:469:HIS:O	2.17	0.44
5:F:160:ASP:HB3	5:F:161:LEU:H	1.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:391:ALA:O	5:F:395:THR:HG23	2.18	0.44
5:F:600:HIS:HA	5:F:601:PRO:HD3	1.85	0.44
2:I:842:ASP:HB3	2:I:847:PRO:HA	1.99	0.44
3:J:612:LEU:HD22	3:J:616:PRO:CG	2.47	0.44
3:J:702:GLN:HG3	3:J:723:TYR:CZ	2.53	0.44
3:J:984:LEU:O	3:J:992:LYS:HB3	2.17	0.44
5:L:349:GLU:N	5:L:349:GLU:OE1	2.51	0.44
2:O:550:VAL:HG21	3:P:776:THR:HG23	1.94	0.44
2:O:594:VAL:HG13	2:O:598:VAL:O	2.18	0.44
3:P:1163:VAL:O	3:P:1201:GLY:HA2	2.18	0.44
3:P:1314:LEU:HG	3:P:1314:LEU:H	1.57	0.44
3:P:176:PHE:O	3:P:176:PHE:CD2	2.71	0.44
3:P:550:VAL:HG12	3:P:552:ILE:HD11	1.99	0.44
3:P:614:LEU:O	3:P:618:VAL:HG23	2.18	0.44
6:4:50:DT:H6	6:4:50:DT:C5'	2.31	0.44
1:B:56:VAL:HG13	1:B:144:ILE:CG2	2.48	0.44
1:B:194:GLN:NE2	3:D:406:ALA:HB1	2.33	0.44
2:C:9:LYS:O	2:C:1172:LEU:HD13	2.18	0.44
2:C:1312:ASN:OD1	2:C:1314:GLN:HB2	2.18	0.44
2:C:155:VAL:CG2	2:C:405:PHE:CD2	3.01	0.44
2:C:237:LEU:HD12	2:C:288:PRO:O	2.18	0.44
2:C:665:ALA:HA	2:C:668:ILE:CD1	2.48	0.44
2:C:805:MET:O	2:C:811:ASN:ND2	2.46	0.44
3:D:1233:ILE:H	3:D:1233:ILE:HG13	1.43	0.44
3:D:1296:GLY:O	3:D:1297:LYS:O	2.36	0.44
3:D:201:LEU:HB2	3:D:221:ILE:HD11	1.98	0.44
3:D:364:HIS:HB3	3:D:487:THR:HG23	1.99	0.44
3:D:514:THR:O	3:D:576:ARG:NE	2.51	0.44
5:F:272:SER:O	5:F:276:MET:HG2	2.18	0.44
5:F:395:THR:HA	5:F:404:LEU:CD1	2.47	0.44
5:F:488:LEU:O	5:F:489:MET:HG3	2.18	0.44
1:G:232:VAL:HG13	1:H:218:ARG:CA	2.43	0.44
2:I:1106:ARG:O	2:I:1107:MET:HB2	2.18	0.44
2:I:1227:VAL:HG12	2:I:1228:GLY:N	2.32	0.44
2:I:253:PHE:CD1	2:I:288:PRO:HD2	2.53	0.44
2:I:453:ILE:HD13	2:I:453:ILE:HA	1.77	0.44
2:I:80:PHE:O	2:I:92:TYR:CE1	2.67	0.44
3:J:601:ILE:HG22	3:J:602:SER:N	2.32	0.44
1:N:47:LEU:O	1:N:51:MET:HG2	2.17	0.44
2:O:189:ASP:CG	2:O:190:PRO:HD2	2.38	0.44
2:O:22:LEU:HD13	2:O:603:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:639:LYS:O	2:O:639:LYS:HG2	2.18	0.44
3:P:1346:GLY:H	3:P:1349:GLU:CD	2.22	0.44
3:P:139:LEU:HD21	3:P:185:ILE:HB	2.00	0.44
5:R:115:GLY:O	5:R:118:ASP:HB2	2.18	0.44
6:1:56:DG:C2	7:2:8:DG:N2	2.86	0.43
6:4:45:DT:C2'	6:4:46:DG:O4'	2.66	0.43
1:A:13:LEU:CA	1:A:28:LEU:CD2	2.73	0.43
2:C:13:LYS:HB3	2:C:1182:ILE:HG23	1.99	0.43
2:C:448:LEU:HB3	2:C:608:ALA:HB2	2.00	0.43
3:D:1080:ILE:HB	3:D:1097:ALA:HB3	1.99	0.43
3:D:15:GLU:HG2	3:D:15:GLU:O	2.17	0.43
3:D:139:LEU:HD23	3:D:185:ILE:CD1	2.22	0.43
3:D:475:GLU:O	3:D:478:LEU:HB2	2.18	0.43
3:D:740:LEU:N	3:D:740:LEU:HD23	2.32	0.43
3:D:759:ILE:CD1	3:D:767:LEU:CD1	2.91	0.43
5:F:511:ILE:CD1	5:F:519:LEU:CD1	2.76	0.43
3:D:335:GLN:OE1	5:F:518:HIS:CD2	2.71	0.43
2:I:1315:MET:CE	3:J:473:THR:CG2	2.95	0.43
2:I:243:PRO:HG2	2:I:278:GLU:HA	2.00	0.43
2:I:528:ARG:CZ	2:I:575:LEU:HD23	2.48	0.43
2:I:448:LEU:CG	2:I:553:THR:OG1	2.63	0.43
3:J:1240:VAL:O	3:J:1244:GLN:HG2	2.18	0.43
3:J:536:LEU:HA	3:J:536:LEU:HD23	1.29	0.43
3:J:589:TYR:C	3:J:591:ILE:N	2.71	0.43
3:J:825:VAL:CG2	3:J:838:ARG:HH11	2.30	0.43
2:O:277:LEU:HG	2:O:277:LEU:O	2.17	0.43
2:O:592:ARG:HG3	2:O:653:MET:CE	2.48	0.43
2:O:898:GLU:OE2	5:R:565:ILE:CG2	2.67	0.43
2:O:1242:LYS:HZ2	3:P:465:GLN:HE21	1.66	0.43
3:P:572:THR:OG1	3:P:576:ARG:HB2	2.18	0.43
3:P:816:THR:HG22	3:P:818:GLU:N	2.33	0.43
3:P:891:ASP:OD1	3:P:891:ASP:N	2.50	0.43
3:P:894:VAL:HG23	3:P:895:CYS:N	2.31	0.43
5:R:137:TYR:CD1	5:R:138:PRO:HD2	2.53	0.43
5:R:160:ASP:HB3	5:R:161:LEU:H	1.64	0.43
5:R:306:PHE:HD1	5:R:315:TRP:CZ2	2.36	0.43
7:8:25:DA:C2'	7:8:26:DT:OP2	2.55	0.43
2:C:1005:GLU:HB3	2:C:1007:LYS:HE2	2.00	0.43
2:C:577:VAL:HG12	2:C:578:TYR:N	2.33	0.43
2:C:805:MET:HE3	3:D:636:GLY:HA2	2.00	0.43
2:C:906:PHE:HE2	5:F:608:ARG:NH1	2.10	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:951:MET:O	2:C:955:GLN:HG2	2.18	0.43
3:D:1165:PHE:HB3	3:D:1166:GLY:H	1.47	0.43
3:D:609:TYR:O	3:D:609:TYR:CD1	2.72	0.43
3:D:757:THR:HA	3:D:758:PRO:HD3	1.75	0.43
2:I:1152:GLY:HA3	2:I:1155:VAL:HB	1.99	0.43
2:I:1286:THR:O	2:I:1289:GLU:HB2	2.19	0.43
2:I:1321:GLU:O	2:I:1325:VAL:HG23	2.18	0.43
2:I:319:LEU:H	2:I:319:LEU:HG	1.57	0.43
2:I:59:ILE:HG22	2:I:476:LYS:CE	2.49	0.43
2:I:68:LEU:HD12	2:I:68:LEU:HA	1.70	0.43
2:I:808:ASN:ND2	2:I:808:ASN:N	2.65	0.43
3:J:33:TRP:HB3	3:J:102:MET:SD	2.58	0.43
3:J:1357:ILE:HA	3:J:1358:PRO:HD3	1.78	0.43
3:J:279:LEU:HD12	3:J:283:LEU:HD21	1.99	0.43
3:J:288:PRO:HD2	3:J:291:ILE:HD12	2.00	0.43
3:J:601:ILE:CG2	3:J:605:LEU:HD11	2.47	0.43
3:J:814:CYS:HB2	3:J:889:ASP:HB3	2.00	0.43
3:J:848:VAL:HG22	3:J:880:VAL:HG13	1.97	0.43
1:M:77:ASP:OD1	2:O:729:ALA:HB1	2.18	0.43
1:M:46:ILE:HG13	1:N:35:PHE:HE1	1.83	0.43
3:P:24:LEU:N	3:P:24:LEU:HD23	2.33	0.43
5:R:248:GLU:O	5:R:251:LYS:HB3	2.18	0.43
5:R:423:ARG:HD3	6:7:37:DA:N1	2.33	0.43
6:7:53:DG:C4	6:7:54:DA:N6	2.86	0.43
1:A:48:LEU:HD23	1:A:180:VAL:HB	1.99	0.43
1:B:142:MET:HB3	1:B:142:MET:HE2	1.65	0.43
2:C:130:MET:HG2	2:C:131:THR:N	2.33	0.43
2:C:837:ALA:O	2:C:918:LEU:CD1	2.66	0.43
3:D:1323:ALA:HB2	3:D:1331:VAL:HG11	2.00	0.43
3:D:422:LEU:HD12	3:D:471:PRO:HD3	2.01	0.43
3:D:835:LEU:CD1	3:D:839:VAL:CG2	2.96	0.43
5:F:381:GLU:HA	5:F:384:LEU:HG	2.00	0.43
1:H:172:LEU:HG	1:H:173:VAL:N	2.33	0.43
3:J:33:TRP:HB2	3:J:102:MET:HE2	2.00	0.43
3:J:214:ARG:HH11	3:J:214:ARG:HG2	1.83	0.43
3:J:501:VAL:HG22	3:J:605:LEU:HD13	1.99	0.43
3:J:673:VAL:HG11	3:J:678:ARG:CD	2.48	0.43
3:J:923:ILE:O	3:J:926:PRO:HD2	2.18	0.43
4:K:36:ASP:OD1	4:K:36:ASP:N	2.51	0.43
4:K:79:GLU:O	4:K:83:VAL:HG23	2.18	0.43
5:L:434:TRP:CD2	6:4:36:DT:C7	3.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:496:LYS:NZ	5:L:468:ARG:NH2	2.66	0.43
5:L:489:MET:HB2	5:L:494:ILE:HD13	1.99	0.43
2:O:1284:ALA:HB3	3:P:1361:THR:HB	2.00	0.43
2:O:333:ILE:CG2	2:O:334:GLU:N	2.80	0.43
2:O:402:ARG:CD	2:O:416:GLY:HA3	2.48	0.43
2:O:911:SER:O	2:O:913:VAL:N	2.49	0.43
2:O:921:PRO:HB2	2:O:924:VAL:HB	2.01	0.43
2:O:985:GLU:CG	2:O:988:LYS:HD2	2.48	0.43
3:P:147:ILE:HD12	3:P:177:ASP:HB3	2.00	0.43
3:P:185:ILE:O	3:P:189:LEU:HD12	2.18	0.43
3:P:239:LEU:H	3:P:239:LEU:HG	1.46	0.43
3:P:435:GLN:HE21	3:P:489:ASN:HD22	1.65	0.43
3:P:682:VAL:CG1	3:P:686:TRP:HE1	2.31	0.43
3:P:925:GLU:N	3:P:926:PRO:CD	2.81	0.43
3:P:968:ASN:CA	3:P:1117:SER:O	2.66	0.43
2:C:542:ARG:CZ	6:1:50:DT:C7	2.89	0.43
2:O:529:ARG:NH2	8:9:14:A:OP1	2.51	0.43
1:A:187:VAL:CG1	1:A:199:ASP:OD2	2.65	0.43
1:A:58:GLU:O	1:A:59:VAL:HG23	2.18	0.43
2:C:1322:SER:O	2:C:1325:VAL:HB	2.18	0.43
2:C:285:ILE:CG2	2:C:286:GLU:H	2.20	0.43
3:D:807:LEU:HD13	3:D:1259:GLN:HE21	1.78	0.43
3:D:370:LYS:HG3	3:D:443:GLU:HA	1.99	0.43
3:D:367:GLY:HA3	3:D:448:GLN:HB2	1.99	0.43
3:D:736:GLN:H	3:D:736:GLN:HG2	1.36	0.43
3:D:889:ASP:OD2	3:D:1290:ARG:NH2	2.43	0.43
2:I:301:TYR:HD2	2:I:330:HIS:CD2	2.36	0.43
2:I:316:GLU:HG3	2:I:352:ARG:NH2	2.33	0.43
2:I:797:GLY:O	2:I:798:GLN:HG3	2.19	0.43
2:I:809:GLY:CA	3:J:629:PHE:CD1	3.01	0.43
3:J:146:VAL:HG12	3:J:155:GLU:O	2.16	0.43
2:I:1281:TYR:HA	3:J:431:ARG:HH11	1.83	0.43
3:J:479:GLU:O	3:J:484:MET:HG3	2.18	0.43
3:J:64:PRO:O	3:J:95:THR:HG23	2.18	0.43
3:J:364:HIS:CD2	4:K:4:VAL:HG13	2.54	0.43
2:O:1095:ASP:C	2:O:1096:ILE:HG13	2.38	0.43
2:O:1134:GLN:O	2:O:1136:GLN:HG3	2.19	0.43
3:P:1025:MET:HG2	3:P:1025:MET:O	2.17	0.43
3:P:598:LYS:O	3:P:601:ILE:HB	2.17	0.43
3:P:621:ALA:O	3:P:624:ILE:HB	2.18	0.43
3:P:700:ASN:O	3:P:704:GLU:CB	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:930:LEU:HB2	3:P:1134:ILE:CD1	2.43	0.43
3:P:968:ASN:HB2	3:P:1117:SER:O	2.18	0.43
1:A:134:THR:OG1	1:A:135:ASP:N	2.50	0.43
1:A:41:ASN:ND2	2:C:1218:GLY:N	2.66	0.43
1:B:56:VAL:CG1	1:B:144:ILE:CG2	2.96	0.43
2:C:1151:LEU:HD21	2:C:1197:GLU:HB3	1.99	0.43
2:C:1186:VAL:HG12	2:C:1187:PHE:CE2	2.53	0.43
2:C:295:LYS:C	2:C:317:LEU:HD12	2.39	0.43
3:D:194:LEU:HD13	3:D:228:VAL:HG23	2.00	0.43
3:D:288:PRO:O	3:D:292:VAL:HG23	2.18	0.43
3:D:823:THR:HB	3:D:824:PRO:CD	2.48	0.43
1:H:43:LEU:H	1:H:43:LEU:HG	1.33	0.43
2:I:1283:ALA:HB1	3:J:479:GLU:CD	2.38	0.43
2:I:3:TYR:O	2:I:8:LYS:CE	2.62	0.43
2:I:589:THR:HG23	2:I:590:PRO:HD2	2.01	0.43
3:J:1041:ILE:HG22	3:J:1042:ASP:N	2.34	0.43
3:J:1165:PHE:CE2	3:J:1173:ARG:NH2	2.87	0.43
3:J:601:ILE:HG22	3:J:605:LEU:HD12	2.00	0.43
3:J:712:GLN:CD	3:J:712:GLN:N	2.72	0.43
3:J:814:CYS:SG	3:J:888:CYS:SG	3.17	0.43
2:O:701:GLY:N	2:O:1182:ILE:O	2.50	0.43
2:O:31:GLN:OE1	2:O:456:VAL:CG2	2.66	0.43
1:M:83:LEU:CD1	2:O:694:ARG:HH11	2.31	0.43
3:P:127:LEU:HA	3:P:127:LEU:HD23	1.86	0.43
3:P:816:THR:HG22	3:P:818:GLU:H	1.83	0.43
5:R:168:PRO:CD	5:R:212:ILE:HD12	2.48	0.43
1:B:56:VAL:HG13	1:B:144:ILE:HG22	2.01	0.43
1:A:174:ASP:OD2	2:C:1059:ARG:NH2	2.52	0.43
2:C:112:GLY:C	2:C:114:VAL:N	2.69	0.43
2:C:90:VAL:HG12	2:C:91:THR:N	2.34	0.43
5:F:105:MET:HE2	5:F:106:GLY:N	2.33	0.43
1:G:234:LEU:O	1:G:235:ARG:CB	2.65	0.43
1:H:52:PRO:HA	1:H:150:ARG:HB2	2.00	0.43
1:H:168:ILE:HG22	1:H:169:GLY:N	2.34	0.43
2:I:1161:LEU:O	2:I:1164:PHE:CD2	2.65	0.43
2:I:17:LYS:N	2:I:17:LYS:HD2	2.34	0.43
2:I:251:ALA:HB3	2:I:266:GLY:N	2.32	0.43
2:I:568:ASN:HA	2:I:571:LEU:HD12	2.01	0.43
2:I:979:LEU:HA	2:I:979:LEU:HD23	1.75	0.43
3:J:160:LEU:HA	3:J:160:LEU:HD23	1.84	0.43
3:J:245:LEU:CG	3:J:249:LEU:HD12	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:275:ARG:NH1	3:J:302:ALA:HB2	2.33	0.43
3:J:29:MET:O	3:J:32:SER:HB3	2.19	0.43
3:J:467:ALA:O	3:J:468:VAL:HG22	2.18	0.43
5:L:231:THR:O	5:L:231:THR:HG22	2.18	0.43
5:L:235:ILE:CG2	5:L:240:ARG:HA	2.45	0.43
1:M:127:GLN:HG2	1:M:127:GLN:H	1.51	0.43
2:O:1166:ASP:O	2:O:1169:VAL:HB	2.18	0.43
2:O:122:VAL:HG11	2:O:493:ILE:HB	2.01	0.43
2:O:734:ILE:HG21	2:O:751:TYR:HE2	1.84	0.43
3:P:131:PRO:O	3:P:135:ILE:HG13	2.19	0.43
3:P:350:SER:HB3	3:P:469:HIS:CE1	2.53	0.43
3:P:504:GLN:HB3	3:P:505:ASP:H	1.66	0.43
3:P:824:PRO:HG3	3:P:835:LEU:HB2	2.01	0.43
3:D:791:ALA:HA	7:2:12:DG:C5'	2.48	0.43
1:A:125:LYS:HB2	1:A:125:LYS:HE3	1.83	0.43
1:B:169:GLY:O	1:B:171:LEU:HG	2.19	0.43
2:C:1049:ILE:CG2	2:C:1050:VAL:N	2.82	0.43
2:C:153:PRO:HD2	2:C:400:VAL:CG1	2.49	0.43
2:C:333:ILE:CG2	2:C:334:GLU:N	2.81	0.43
2:C:39:ILE:O	2:C:39:ILE:HG22	2.19	0.43
2:C:654:ASP:OD1	2:C:654:ASP:N	2.50	0.43
2:C:837:ALA:O	2:C:918:LEU:HD13	2.18	0.43
3:D:352:ARG:O	3:D:353:SER:HB2	2.17	0.43
5:F:116:GLU:HG3	5:F:116:GLU:H	1.48	0.43
5:F:262:VAL:HA	5:F:263:PRO:HD3	1.89	0.43
5:F:269:LEU:HD23	5:F:269:LEU:HA	1.71	0.43
5:F:315:TRP:CZ2	5:F:341:LEU:HD11	2.53	0.43
2:I:1242:LYS:CE	3:J:465:GLN:NE2	2.81	0.43
2:I:1244:HIS:CE1	2:I:1245:ALA:O	2.72	0.43
2:I:279:LYS:HB3	2:I:279:LYS:NZ	2.33	0.43
2:I:402:ARG:O	2:I:405:PHE:HB3	2.18	0.43
3:J:1196:LEU:HG	3:J:1196:LEU:H	1.57	0.43
3:J:1233:ILE:HG13	3:J:1233:ILE:H	1.58	0.43
3:J:1357:ILE:O	3:J:1362:GLY:HA3	2.19	0.43
3:J:135:ILE:O	3:J:138:VAL:HB	2.19	0.43
3:J:330:MET:CE	3:J:337:ARG:HH22	2.31	0.43
3:J:428:THR:O	3:J:428:THR:HG22	2.19	0.43
3:J:601:ILE:HG22	3:J:605:LEU:CD1	2.49	0.43
3:J:923:ILE:HD11	3:J:1253:ILE:HG12	2.00	0.43
3:J:68:TYR:C	3:J:92:VAL:CG1	2.87	0.43
5:L:129:GLN:OE1	5:L:367:ILE:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:401:PHE:O	5:L:405:ILE:CG1	2.59	0.43
5:L:571:TYR:HB2	5:L:576:VAL:HG22	2.01	0.43
2:O:1061:GLN:CB	2:O:1062:PRO:CD	2.95	0.43
1:M:45:ARG:NH2	2:O:1084:ASP:OD1	2.48	0.43
2:O:550:VAL:HG23	3:P:780:ARG:NE	2.33	0.43
3:P:653:ILE:HG21	3:P:693:VAL:CG2	2.49	0.43
5:R:102:MET:HB3	6:7:42:DG:H21	1.83	0.43
5:R:385:ARG:C	5:R:388:ILE:HG22	2.39	0.43
6:1:47:DC:C6	6:1:47:DC:C5'	3.01	0.43
5:L:583:THR:HG23	6:4:14:DT:H73	2.00	0.43
7:5:19:DA:H3'	7:5:20:DG:H5''	1.99	0.43
7:5:5:DC:H2''	7:5:6:DG:OP2	2.19	0.43
1:A:41:ASN:O	1:A:45:ARG:HG3	2.19	0.43
1:B:39:LEU:H	1:B:39:LEU:CD2	2.24	0.43
2:C:1015:ALA:O	2:C:1018:TYR:HB3	2.19	0.43
2:C:1264:GLN:O	2:C:1265:PHE:CB	2.67	0.43
2:C:668:ILE:HA	2:C:669:PRO:HD3	1.81	0.43
2:C:807:TRP:CZ3	2:C:1086:PRO:CD	3.00	0.43
3:D:1018:ALA:O	3:D:1019:ASN:CB	2.66	0.43
3:D:1173:ARG:HB3	3:D:1173:ARG:HE	1.55	0.43
3:D:1167:LYS:HB2	3:D:1174:ARG:HD2	2.00	0.43
3:D:771:GLN:O	3:D:774:ILE:CG1	2.64	0.43
5:F:533:ASP:O	5:F:536:THR:HB	2.19	0.43
1:H:133:LEU:HA	1:H:133:LEU:HD23	1.67	0.43
1:H:29:GLU:OE1	1:H:200:LYS:HE2	2.19	0.43
2:I:295:LYS:HD3	2:I:295:LYS:HA	1.87	0.43
3:J:1261:LEU:HD23	3:J:1306:LEU:HD13	2.01	0.43
3:J:219:LYS:HG2	3:J:222:LYS:HZ2	1.84	0.43
3:J:295:GLU:HA	3:J:295:GLU:OE1	2.18	0.43
3:J:362:ARG:NH2	3:J:619:ILE:HD11	2.34	0.43
3:J:917:VAL:O	3:J:921:GLN:HG3	2.18	0.43
5:L:119:ILE:N	5:L:119:ILE:CD1	2.82	0.43
5:L:213:ASP:HA	5:L:214:PRO:HD3	1.91	0.43
1:M:134:THR:HB	2:O:726:TYR:HE1	1.84	0.43
1:N:129:VAL:HG11	1:N:132:HIS:CE1	2.53	0.43
1:N:25:LYS:HE2	1:N:204:GLU:HG2	2.00	0.43
2:O:186:PHE:CD2	2:O:186:PHE:N	2.87	0.43
2:O:693:LEU:CA	2:O:831:ILE:HD11	2.49	0.43
3:P:1209:VAL:HG12	3:P:1211:SER:O	2.18	0.43
3:P:1366:HIS:O	3:P:1370:MET:HG3	2.19	0.43
3:P:139:LEU:HD22	3:P:182:ALA:CA	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:435:GLN:NE2	3:P:486:SER:HA	2.33	0.43
3:P:610:ARG:NH2	3:P:901:ARG:HH11	2.16	0.43
3:P:697:MET:HE1	3:P:738:ARG:HA	2.00	0.43
3:P:297:ARG:NE	5:R:100:MET:HE1	2.34	0.43
6:1:44:DG:C2'	6:1:45:DT:O4'	2.66	0.43
6:1:54:DA:C2'	6:1:55:DC:H5'	2.47	0.43
1:B:174:ASP:OD1	1:B:174:ASP:N	2.52	0.43
2:C:436:ARG:HD2	2:C:436:ARG:O	2.19	0.43
3:D:111:THR:OG1	3:D:299:LEU:CD2	2.67	0.43
2:C:1225:VAL:CG2	3:D:636:GLY:O	2.67	0.43
3:D:638:SER:C	3:D:639:VAL:HG22	2.39	0.43
3:D:824:PRO:HD3	3:D:878:ASP:O	2.19	0.43
5:F:113:ARG:HB2	5:F:114:GLU:H	1.58	0.43
5:F:502:LYS:HE3	5:F:503:GLU:O	2.19	0.43
5:F:560:ARG:HA	5:F:565:ILE:HB	2.00	0.43
1:G:112:ALA:CB	1:G:126:PRO:HA	2.34	0.43
2:I:285:ILE:CG2	2:I:286:GLU:N	2.81	0.43
2:I:753:LEU:CD1	2:I:769:PRO:HG3	2.48	0.43
2:I:887:VAL:HG23	2:I:887:VAL:O	2.18	0.43
2:I:931:VAL:HG13	2:I:1052:VAL:HG22	2.00	0.43
2:I:94:ALA:HB2	2:I:129:LEU:CD1	2.45	0.43
3:J:33:TRP:CE3	3:J:102:MET:HE1	2.54	0.43
2:I:170:VAL:HG22	3:J:1065:ALA:HB1	2.01	0.43
3:J:1231:ARG:HA	3:J:1234:VAL:HG21	2.01	0.43
3:J:214:ARG:HH22	3:J:215:LYS:HE2	1.84	0.43
3:J:44:ILE:HD12	3:J:49:PHE:CA	2.49	0.43
3:J:849:LEU:HD21	3:J:857:LEU:HD23	1.96	0.43
5:L:119:ILE:HB	5:L:379:MET:CE	2.48	0.43
2:O:556:GLY:HA2	2:O:659:GLN:O	2.19	0.43
2:O:593:LYS:HB3	2:O:600:THR:OG1	2.18	0.43
2:O:656:SER:O	2:O:659:GLN:HG2	2.19	0.43
2:O:807:TRP:HB3	2:O:817:LEU:HD11	2.00	0.43
2:O:844:LYS:HG2	2:O:844:LYS:O	2.19	0.43
3:P:109:SER:OG	3:P:296:LYS:HD3	2.19	0.43
3:P:1138:LEU:CB	3:P:1139:PRO:CD	2.96	0.43
3:P:1165:PHE:CZ	3:P:1196:LEU:HD12	2.34	0.43
3:P:1280:VAL:CG1	3:P:1281:GLU:N	2.82	0.43
3:P:1296:GLY:O	3:P:1297:LYS:O	2.37	0.43
3:P:263:SER:N	5:R:507:MET:SD	2.92	0.43
3:P:28:ASP:O	3:P:31:ARG:HB2	2.19	0.43
2:O:1099:ASN:HD21	3:P:504:GLN:HE21	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:5:50:DG:C2'	7:5:51:DT:OP2	2.66	0.43
6:7:37:DA:H2'	6:7:37:DA:OP2	2.19	0.43
1:A:48:LEU:CD2	1:A:180:VAL:HB	2.49	0.43
2:C:559:CYS:CB	2:C:662:SER:H	2.31	0.43
2:C:560:PRO:HB2	3:D:776:THR:HG21	2.01	0.43
2:C:73:TYR:CB	2:C:98:VAL:HG22	2.49	0.43
2:C:6:THR:HG21	2:C:782:VAL:HG23	2.00	0.43
2:C:870:ILE:HG21	2:C:944:ARG:CZ	2.48	0.43
3:D:1163:VAL:CG1	3:D:1164:SER:N	2.81	0.43
3:D:245:LEU:CD1	3:D:249:LEU:HD12	2.49	0.43
3:D:368:LEU:HG	3:D:373:ALA:HB2	2.01	0.43
3:D:733:SER:O	3:D:736:GLN:HG2	2.19	0.43
1:H:95:LYS:HD2	1:H:95:LYS:N	2.33	0.43
2:I:757:THR:CG2	2:I:758:ARG:H	2.31	0.43
2:I:850:ILE:CG2	2:I:885:GLY:O	2.61	0.43
3:J:113:HIS:NE2	3:J:115:TRP:HB2	2.33	0.43
2:I:1270:PHE:N	3:J:345:LYS:O	2.52	0.43
5:L:284:GLU:O	5:L:287:ILE:HB	2.19	0.43
2:O:675:ASP:CG	2:O:1107:MET:HE1	2.39	0.43
2:O:702:THR:C	2:O:704:MET:H	2.22	0.43
3:P:1284:ARG:HH11	3:P:1287:ILE:HD12	1.84	0.43
3:P:580:TRP:CH2	3:P:587:LEU:O	2.72	0.43
3:P:605:LEU:H	3:P:605:LEU:HG	1.42	0.43
3:P:70:CYS:HB2	3:P:90:VAL:HB	2.01	0.43
5:R:457:ILE:HD13	5:R:460:ILE:HD12	2.00	0.43
1:A:42:ALA:O	1:A:46:ILE:HD12	2.19	0.42
1:B:61:ILE:HG22	1:B:140:ILE:HD11	2.01	0.42
2:C:1161:LEU:HD12	2:C:1161:LEU:O	2.19	0.42
2:C:27:LEU:HG	2:C:711:ASP:OD2	2.19	0.42
2:C:632:ASP:OD1	2:C:647:ARG:NH2	2.52	0.42
2:C:850:ILE:HD11	2:C:1048:LYS:HD2	2.01	0.42
3:D:291:ILE:CG2	5:F:409:ASN:HD22	2.32	0.42
3:D:390:LEU:HD12	3:D:411:ILE:HD11	2.00	0.42
3:D:423:LEU:HD23	3:D:423:LEU:HA	1.46	0.42
3:D:569:LEU:H	3:D:569:LEU:HD22	1.83	0.42
4:E:31:GLN:HB3	4:E:32:VAL:HG23	2.01	0.42
2:I:539:THR:HG22	2:I:540:ARG:N	2.31	0.42
2:I:831:ILE:HG13	2:I:831:ILE:H	1.61	0.42
3:J:1156:LEU:HD23	3:J:1156:LEU:N	2.29	0.42
3:J:421:VAL:CG1	3:J:422:LEU:N	2.75	0.42
2:I:1116:HIS:NE2	3:J:641:ILE:HG13	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:261:LEU:HD23	5:L:262:VAL:N	2.34	0.42
5:L:349:GLU:CA	5:L:349:GLU:OE1	2.67	0.42
2:O:34:SER:HA	2:O:37:LYS:CD	2.36	0.42
2:O:690:VAL:HG13	2:O:691:PRO:HD2	2.00	0.42
2:O:895:LEU:HD13	2:O:899:GLU:HB3	2.01	0.42
2:O:90:VAL:HG12	2:O:91:THR:N	2.34	0.42
3:P:311:ARG:NH2	3:P:1329:THR:HG21	2.34	0.42
3:P:146:VAL:HA	3:P:178:ALA:HB2	2.01	0.42
3:P:450:HIS:CD2	3:P:451:PRO:HD2	2.54	0.42
5:L:464:ASN:HD22	7:5:26:DT:H71	1.84	0.42
7:8:27:DA:H1'	7:8:28:DG:H5'	2.01	0.42
1:A:104:LYS:HD2	1:A:104:LYS:HA	1.84	0.42
1:A:131:CYS:SG	1:A:132:HIS:N	2.92	0.42
1:A:158:ARG:HB3	1:A:172:LEU:HD21	2.00	0.42
1:B:61:ILE:HD11	1:B:171:LEU:CD1	2.47	0.42
2:C:519:ASN:OD1	2:C:522:SER:CB	2.67	0.42
2:C:782:VAL:HG21	2:C:792:GLY:HA2	2.01	0.42
3:D:186:GLN:HB2	3:D:238:ILE:HG13	2.01	0.42
3:D:227:PHE:CE1	3:D:232:ASN:O	2.72	0.42
3:D:57:PHE:HZ	3:D:250:ARG:O	2.02	0.42
3:D:620:PHE:O	3:D:624:ILE:HD11	2.17	0.42
5:F:115:GLY:O	5:F:118:ASP:HB2	2.19	0.42
5:F:272:SER:O	5:F:276:MET:CG	2.68	0.42
5:F:449:THR:OG1	5:F:504:PRO:CG	2.50	0.42
5:F:502:LYS:HD2	5:F:502:LYS:HA	1.75	0.42
1:H:15:ASP:HB3	1:H:27:THR:CG2	2.49	0.42
2:I:1252:SER:HA	2:I:1259:LEU:CD2	2.40	0.42
2:I:421:SER:O	2:I:425:ILE:HG13	2.20	0.42
3:J:151:MET:CB	3:J:153:ASN:HD22	2.28	0.42
3:J:255:LEU:CD2	3:J:256:ASP:H	2.17	0.42
3:J:399:LYS:HZ1	5:L:611:LEU:HD23	1.82	0.42
3:J:664:ILE:CD1	3:J:685:ILE:HD11	2.49	0.42
2:O:68:LEU:HD12	2:O:101:ARG:O	2.18	0.42
2:O:104:ILE:HG22	2:O:105:TYR:O	2.19	0.42
2:O:1088:ASP:OD1	2:O:1088:ASP:N	2.50	0.42
2:O:136:PHE:HB3	2:O:138:ILE:CD1	2.19	0.42
2:O:242:VAL:CG1	2:O:243:PRO:HD2	2.50	0.42
2:O:369:MET:HE3	2:O:369:MET:HB2	1.86	0.42
2:O:419:ILE:HG12	2:O:419:ILE:H	1.59	0.42
2:O:606:LEU:HD22	2:O:610:GLU:CB	2.48	0.42
2:O:58:PRO:HB3	2:O:69:GLN:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:719:LYS:HD3	2:O:751:TYR:CE1	2.54	0.42
2:O:797:GLY:CA	2:O:1233:LEU:HD21	2.49	0.42
3:P:114:ILE:HG23	3:P:115:TRP:N	2.35	0.42
3:P:1312:ALA:O	3:P:1316:THR:HG23	2.19	0.42
3:P:338:PHE:CE1	3:P:1324:SER:HA	2.53	0.42
3:P:368:LEU:HA	3:P:447:ILE:HG23	2.00	0.42
3:P:74:LYS:CD	3:P:85:CYS:SG	2.86	0.42
6:4:47:DC:C3'	6:4:47:DC:C6	3.03	0.42
1:A:198:LEU:HD23	1:A:198:LEU:HA	1.54	0.42
1:B:192:VAL:O	1:B:193:GLU:C	2.57	0.42
2:C:995:ASP:C	2:C:997:TRP:H	2.22	0.42
2:C:1340:GLU:O	3:D:17:PHE:HA	2.19	0.42
3:D:518:VAL:HG12	3:D:519:ASN:CG	2.39	0.42
3:D:512:TYR:CZ	3:D:635:SER:HB2	2.54	0.42
3:D:823:THR:HB	3:D:824:PRO:HD2	2.02	0.42
5:F:292:VAL:HG21	5:F:299:LYS:HE2	2.01	0.42
5:F:399:LEU:HB3	5:F:400:GLN:H	1.62	0.42
2:I:105:TYR:HE1	2:I:113:THR:HB	1.84	0.42
2:I:230:PHE:CD1	2:I:292:ILE:CD1	3.03	0.42
2:I:897:PRO:HB3	5:L:563:PHE:O	2.20	0.42
3:J:120:LEU:HA	3:J:121:PRO:HA	1.76	0.42
5:L:559:LEU:HD11	5:L:594:ALA:CB	2.49	0.42
1:M:232:VAL:HG21	1:N:221:ALA:HB3	1.98	0.42
2:O:183:TRP:C	2:O:184:LEU:HG	2.40	0.42
2:O:415:GLU:HG2	2:O:416:GLY:N	2.34	0.42
3:P:1075:ARG:HB2	3:P:1192:LYS:HD3	2.01	0.42
3:P:146:VAL:CG2	3:P:158:GLN:HB3	2.49	0.42
3:P:330:MET:CE	3:P:337:ARG:NH2	2.82	0.42
4:Q:59:ILE:HD13	4:Q:59:ILE:HA	1.90	0.42
5:R:386:LEU:HD13	6:7:41:DT:C1'	2.49	0.42
5:R:96:ASP:OD1	5:R:98:VAL:HG23	2.19	0.42
2:C:1056:VAL:HG11	2:C:1058:ARG:NE	2.34	0.42
2:C:1285:TYR:CE1	3:D:475:GLU:HG2	2.55	0.42
2:C:946:LEU:HG	2:C:946:LEU:O	2.09	0.42
3:D:1347:LEU:N	3:D:1347:LEU:HD23	2.33	0.42
3:D:250:ARG:HH11	3:D:250:ARG:HG3	1.84	0.42
3:D:347:VAL:CG1	3:D:469:HIS:CE1	3.02	0.42
3:D:643:ASP:O	3:D:720:ASN:ND2	2.46	0.42
3:D:739:GLN:HG2	3:D:744:ARG:HG3	2.01	0.42
3:D:749:LYS:HE2	3:D:755:ILE:HG23	2.01	0.42
1:G:153:VAL:CG1	1:G:157:THR:HB	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:158:ARG:HB3	1:G:172:LEU:HD21	2.00	0.42
1:G:167:PRO:HG3	1:G:170:ARG:HH11	1.85	0.42
1:G:35:PHE:HB3	1:G:39:LEU:HD12	1.97	0.42
1:H:11:PRO:HB2	1:H:28:LEU:HD11	2.02	0.42
1:H:78:ILE:HA	1:H:81:ILE:HD12	2.00	0.42
2:I:1134:GLN:HG2	2:I:1134:GLN:O	2.19	0.42
2:I:196:VAL:HG12	2:I:197:ARG:N	2.34	0.42
2:I:292:ILE:HG22	2:I:292:ILE:O	2.18	0.42
2:I:420:LEU:HD23	2:I:420:LEU:HA	1.89	0.42
2:I:757:THR:HG22	2:I:758:ARG:N	2.29	0.42
3:J:1240:VAL:HB	3:J:1241:TYR:HD2	1.83	0.42
3:J:736:GLN:CA	3:J:736:GLN:NE2	2.81	0.42
3:J:839:VAL:CG1	3:J:839:VAL:O	2.66	0.42
5:L:401:PHE:CZ	6:4:45:DT:H1'	2.53	0.42
5:L:493:LYS:HZ2	5:L:496:LYS:CD	2.32	0.42
1:M:82:LEU:HD23	1:M:85:LEU:HD11	2.00	0.42
2:O:700:VAL:HG13	2:O:1117:LEU:HD23	2.00	0.42
2:O:1124:ILE:HD11	2:O:1198:LEU:CD1	2.49	0.42
2:O:1212:LEU:HB2	2:O:1221:PHE:HD2	1.83	0.42
2:O:129:LEU:O	2:O:136:PHE:CD1	2.72	0.42
2:O:179:TYR:OH	2:O:462:ASN:ND2	2.43	0.42
2:O:272:ARG:CB	2:O:272:ARG:NH1	2.81	0.42
2:O:335:THR:HG22	2:O:336:LEU:N	2.35	0.42
2:O:344:GLY:O	2:O:346:TYR:CD2	2.72	0.42
2:O:482:GLY:HA3	2:O:487:LEU:CD1	2.48	0.42
2:O:759:SER:HB3	2:O:765:ILE:HG13	2.00	0.42
3:P:1145:PHE:HE1	3:P:1256:ILE:CD1	2.31	0.42
3:P:1176:VAL:HG22	3:P:1187:GLU:CG	2.48	0.42
3:P:1132:LYS:HB3	3:P:1243:LEU:HD21	2.00	0.42
3:P:1367:GLN:HA	3:P:1370:MET:HG3	2.00	0.42
2:O:1247:SER:O	3:P:348:ASP:HB3	2.19	0.42
3:P:347:VAL:HG12	3:P:348:ASP:N	2.33	0.42
3:P:450:HIS:HA	3:P:451:PRO:HD3	1.89	0.42
3:P:698:MET:O	3:P:702:GLN:HB2	2.20	0.42
5:R:385:ARG:O	5:R:388:ILE:HG23	2.19	0.42
6:4:53:DG:H2''	6:4:54:DA:N7	2.35	0.42
1:A:183:ILE:O	1:A:183:ILE:HG23	2.20	0.42
1:B:100:LEU:HD11	1:B:121:VAL:HG11	2.00	0.42
2:C:1183:ALA:O	2:C:1185:PRO:HD3	2.18	0.42
2:C:1225:VAL:HG12	2:C:1226:THR:N	2.34	0.42
2:C:1288:GLN:NE2	3:D:1354:GLY:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:138:ILE:N	2:C:138:ILE:HD13	2.32	0.42
2:C:149:LEU:HD11	2:C:451:ARG:CG	2.50	0.42
2:C:180:ARG:O	2:C:395:TYR:HA	2.19	0.42
2:C:209:ILE:CG2	2:C:210:LEU:H	2.26	0.42
2:C:906:PHE:CZ	5:F:608:ARG:NH2	2.87	0.42
2:C:992:LEU:CB	2:C:993:PRO:CD	2.98	0.42
3:D:135:ILE:O	3:D:138:VAL:HB	2.19	0.42
2:C:550:VAL:HG22	3:D:780:ARG:HD2	2.01	0.42
5:F:227:GLN:HA	5:F:230:VAL:HG12	2.00	0.42
5:F:231:THR:O	5:F:231:THR:HG22	2.19	0.42
1:G:9:LEU:HD21	1:G:198:LEU:HD21	2.00	0.42
2:I:13:LYS:HD2	2:I:1149:TYR:HA	2.00	0.42
2:I:118:LYS:HD3	2:I:488:MET:CE	2.50	0.42
2:I:511:LEU:HA	2:I:511:LEU:HD23	1.55	0.42
2:I:516:ASP:HB3	2:I:522:SER:OG	2.19	0.42
2:I:764:CYS:HB2	2:I:831:ILE:HB	1.98	0.42
3:J:216:LYS:CG	3:J:217:LEU:N	2.83	0.42
3:J:39:LYS:NZ	3:J:280:LYS:NZ	2.67	0.42
3:J:363:LEU:HB2	3:J:622:ASP:OD1	2.19	0.42
2:O:177:ILE:HG23	2:O:183:TRP:HE1	1.84	0.42
2:O:313:ALA:O	2:O:314:ASN:CB	2.68	0.42
2:O:667:LEU:HA	2:O:667:LEU:HD23	1.57	0.42
3:P:322:ARG:HE	5:R:510:PRO:CG	2.32	0.42
3:P:350:SER:C	3:P:376:LEU:HD21	2.39	0.42
3:P:419:HIS:O	3:P:439:PRO:HD2	2.19	0.42
3:P:433:GLY:O	3:P:457:TYR:CE1	2.72	0.42
3:P:872:LEU:HG	3:P:872:LEU:H	1.50	0.42
5:L:434:TRP:CZ3	6:4:35:DC:C5	3.08	0.42
6:4:54:DA:C6	6:4:55:DC:C4	3.08	0.42
1:A:218:ARG:HD3	1:B:233:ASP:O	2.19	0.42
2:C:1278:LEU:HD11	2:C:1286:THR:HB	2.01	0.42
2:C:397:LEU:HD11	2:C:420:LEU:CD2	2.50	0.42
2:C:630:VAL:HG12	2:C:631:GLU:N	2.33	0.42
2:C:866:ASP:CG	2:C:867:GLU:H	2.23	0.42
3:D:1177:ILE:O	3:D:1179:PRO:HD3	2.19	0.42
3:D:513:MET:CE	3:D:579:LEU:HG	2.49	0.42
3:D:843:VAL:HG12	3:D:883:ARG:CB	2.49	0.42
5:F:333:VAL:HG13	5:F:333:VAL:O	2.19	0.42
5:F:404:LEU:CD2	5:F:439:ILE:HG12	2.43	0.42
1:G:232:VAL:CG1	1:H:218:ARG:CA	2.86	0.42
1:G:66:HIS:CD2	1:G:69:SER:HB3	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:85:LEU:HA	1:H:88:LEU:HD22	2.00	0.42
2:I:1225:VAL:CG1	2:I:1226:THR:N	2.83	0.42
2:I:1276:TRP:HA	2:I:1279:GLU:OE1	2.20	0.42
2:I:173:ASN:HB3	2:I:187:GLU:CB	2.49	0.42
2:I:470:ARG:HD3	2:I:470:ARG:HA	1.78	0.42
3:J:1282:TYR:CZ	3:J:1304:ARG:NE	2.87	0.42
3:J:143:SER:HB2	3:J:160:LEU:O	2.19	0.42
3:J:369:PRO:CB	3:J:372:MET:HE3	2.49	0.42
3:J:44:ILE:HD12	3:J:49:PHE:HA	2.01	0.42
5:L:443:ILE:HG23	5:L:444:ALA:N	2.34	0.42
1:N:61:ILE:CD1	1:N:64:VAL:HG11	2.49	0.42
2:O:1103:VAL:HB	2:O:1104:PRO:CD	2.49	0.42
2:O:1122:LYS:HG3	2:O:1229:TYR:CE2	2.55	0.42
2:O:184:LEU:HA	2:O:184:LEU:HD23	1.76	0.42
2:O:228:VAL:HG21	2:O:337:PHE:HD1	1.84	0.42
2:O:524:ILE:HD11	2:O:712:SER:CA	2.50	0.42
2:O:695:ALA:HB1	2:O:795:ALA:HB3	2.01	0.42
2:O:840:SER:OG	2:O:840:SER:O	2.38	0.42
2:O:976:ARG:O	2:O:980:VAL:CG2	2.67	0.42
3:P:1075:ARG:CD	3:P:1192:LYS:HB3	2.50	0.42
3:P:1137:GLY:O	3:P:1140:ARG:HB3	2.20	0.42
3:P:1280:VAL:CG1	3:P:1281:GLU:H	2.31	0.42
3:P:151:MET:CE	3:P:151:MET:HA	2.49	0.42
3:P:275:ARG:HD2	3:P:302:ALA:HB2	2.02	0.42
3:P:622:ASP:O	3:P:625:MET:HE2	2.20	0.42
3:P:800:LEU:H	3:P:800:LEU:HG	1.60	0.42
5:R:460:ILE:C	5:R:463:LEU:HG	2.40	0.42
7:2:46:DT:H1'	7:2:47:DC:H5'	2.01	0.42
1:B:28:LEU:HA	1:B:28:LEU:HD22	1.64	0.42
2:C:1156:ARG:HG2	2:C:1157:GLN:N	2.34	0.42
2:C:1276:TRP:N	2:C:1276:TRP:CD1	2.85	0.42
2:C:529:ARG:C	2:C:530:ILE:HG13	2.39	0.42
2:C:720:ARG:HB3	2:C:736:VAL:HG13	2.01	0.42
2:C:718:ALA:CA	2:C:783:LEU:HD11	2.49	0.42
2:C:718:ALA:HA	2:C:783:LEU:HD11	2.01	0.42
2:C:897:PRO:CA	2:C:900:LYS:HD3	2.31	0.42
3:D:1028:ILE:HG23	3:D:1118:GLY:HA2	2.01	0.42
3:D:1266:ILE:CD1	3:D:1274:PHE:CD1	3.01	0.42
3:D:536:LEU:HD22	3:D:542:ALA:CB	2.49	0.42
3:D:736:GLN:HE21	3:D:736:GLN:HB3	1.62	0.42
1:G:178:SER:HA	1:G:179:PRO:HD3	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1225:VAL:HG12	2:I:1226:THR:N	2.35	0.42
2:I:1244:HIS:CG	2:I:1245:ALA:N	2.87	0.42
2:I:146:VAL:HG12	2:I:147:SER:O	2.19	0.42
2:I:674:ASP:O	3:J:772:TYR:OH	2.14	0.42
2:I:883:LEU:H	2:I:883:LEU:HG	1.64	0.42
3:J:282:LEU:HD22	3:J:287:ALA:HB3	1.90	0.42
3:J:379:PRO:CG	3:J:380:PHE:N	2.81	0.42
3:J:851:PRO:HA	3:J:855:ASP:HA	2.01	0.42
4:K:51:LEU:HD23	4:K:51:LEU:HA	1.76	0.42
3:J:288:PRO:HG2	5:L:380:VAL:HG11	2.01	0.42
2:O:1053:TYR:N	2:O:1053:TYR:HD2	2.18	0.42
2:O:183:TRP:CE3	6:7:49:DG:O6	2.73	0.42
2:O:379:GLU:OE1	2:O:379:GLU:HA	2.20	0.42
3:P:1021:ASP:HA	3:P:1022:PRO:HD3	1.75	0.42
3:P:1154:ALA:HA	3:P:1211:SER:HB2	2.00	0.42
3:P:134:ASP:OD2	3:P:159:ILE:HD11	2.20	0.42
3:P:167:ASP:O	3:P:171:GLU:HG3	2.20	0.42
3:P:369:PRO:HB2	3:P:372:MET:HB2	2.01	0.42
2:O:898:GLU:CD	5:R:565:ILE:HG23	2.40	0.42
6:4:19:DA:C2	7:5:45:DG:C2	3.07	0.42
6:4:54:DA:C1'	6:4:55:DC:H5'	2.44	0.42
7:5:23:DT:H3'	7:5:24:DT:C5'	2.46	0.42
2:C:1238:LEU:HA	2:C:1238:LEU:HD23	1.93	0.42
2:C:727:VAL:CG2	2:C:773:LEU:HD13	2.46	0.42
2:C:839:VAL:HG23	2:C:886:LYS:HZ3	1.85	0.42
3:D:1053:LEU:HB3	3:D:1054:THR:H	1.66	0.42
3:D:115:TRP:HZ3	3:D:1332:LEU:HB2	1.85	0.42
3:D:239:LEU:HG	3:D:239:LEU:H	1.47	0.42
3:D:263:SER:HA	5:F:507:MET:CB	2.49	0.42
3:D:375:GLU:OE1	3:D:375:GLU:HA	2.20	0.42
3:D:478:LEU:HD11	4:E:24:ALA:CB	2.50	0.42
3:D:579:LEU:HA	3:D:579:LEU:HD23	1.89	0.42
2:C:809:GLY:HA2	3:D:629:PHE:CE1	2.53	0.42
3:D:496:GLY:HA2	3:D:903:LEU:HB3	2.01	0.42
5:F:478:PRO:HB2	5:F:483:LEU:HD13	2.01	0.42
1:G:125:LYS:HE2	1:G:127:GLN:CG	2.44	0.42
2:I:196:VAL:HG23	2:I:206:ALA:HA	2.00	0.42
2:I:237:LEU:CG	2:I:289:VAL:HG22	2.41	0.42
2:I:471:VAL:HG12	2:I:472:GLU:N	2.35	0.42
2:I:525:THR:HA	2:I:528:ARG:CG	2.50	0.42
2:I:448:LEU:CG	2:I:553:THR:HB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:808:ASN:OD1	2:I:1216:ARG:NH2	2.53	0.42
2:I:988:LYS:O	2:I:992:LEU:HB2	2.19	0.42
3:J:930:LEU:HB2	3:J:1134:ILE:CD1	2.47	0.42
3:J:1146:GLU:OE2	3:J:1310:THR:HG23	2.19	0.42
3:J:1145:PHE:CZ	3:J:1253:ILE:HG23	2.53	0.42
3:J:155:GLU:HB2	3:J:156:ARG:H	1.60	0.42
3:J:275:ARG:HD3	3:J:298:MET:C	2.39	0.42
3:J:575:GLY:HA2	3:J:578:ILE:CD1	2.36	0.42
3:J:68:TYR:HA	3:J:92:VAL:CG1	2.49	0.42
2:I:550:VAL:O	3:J:777:HIS:CE1	2.72	0.42
3:J:930:LEU:HB3	3:J:1134:ILE:HD11	1.92	0.42
5:L:137:TYR:CE1	5:L:353:LEU:HD12	2.55	0.42
1:M:190:ALA:HB2	1:M:199:ASP:C	2.39	0.42
1:M:66:HIS:HE1	2:O:929:ILE:CG1	2.33	0.42
2:O:801:ARG:HG2	2:O:1229:TYR:CE1	2.55	0.42
2:O:748:ILE:HD11	2:O:970:GLY:HA3	2.02	0.42
2:O:985:GLU:HB3	2:O:988:LYS:HD2	2.02	0.42
3:P:1250:ASP:O	3:P:1254:GLU:HG3	2.19	0.42
3:P:1347:LEU:CD2	3:P:1357:ILE:HG22	2.50	0.42
3:P:722:ILE:O	3:P:725:MET:HB2	2.19	0.42
3:P:76:LYS:H	3:P:76:LYS:HG2	1.62	0.42
4:Q:26:ARG:HA	4:Q:26:ARG:HD2	1.96	0.42
2:C:1047:LEU:HB3	2:C:1048:LYS:HG3	2.02	0.42
2:C:373:GLY:HA2	5:F:91:ILE:CG1	2.47	0.42
2:C:528:ARG:HD2	2:C:663:VAL:CG2	2.50	0.42
2:C:906:PHE:CE2	5:F:608:ARG:NH1	2.86	0.42
2:C:992:LEU:HB3	2:C:993:PRO:HD2	2.01	0.42
3:D:1194:ARG:HH11	3:D:1211:SER:HB3	1.84	0.42
3:D:30:ILE:HA	3:D:33:TRP:CE3	2.55	0.42
3:D:720:ASN:ND2	3:D:722:ILE:HG13	2.35	0.42
1:G:195:ARG:HH22	4:Q:66:VAL:CG2	2.30	0.42
2:I:1281:TYR:HE2	3:J:431:ARG:O	2.01	0.42
2:I:801:ARG:HG2	2:I:1229:TYR:CZ	2.54	0.42
2:I:996:ARG:O	2:I:997:TRP:HD1	2.03	0.42
3:J:1064:SER:HA	3:J:1067:ARG:HB2	2.02	0.42
3:J:189:LEU:HG	3:J:189:LEU:H	1.71	0.42
3:J:304:ASP:HB2	3:J:312:ARG:HD2	2.02	0.42
3:J:497:GLU:HB3	3:J:498:PRO:CD	2.42	0.42
3:J:723:TYR:CD1	3:J:723:TYR:C	2.87	0.42
3:J:960:LEU:HD13	3:J:963:VAL:HG11	2.01	0.42
1:M:62:ASP:N	1:M:62:ASP:OD1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:524:ILE:HD12	2:O:708:VAL:HG13	2.01	0.42
3:P:491:LEU:HD22	3:P:496:GLY:O	2.19	0.42
2:C:89:GLY:HA2	2:C:140:GLY:HA3	2.02	0.42
3:D:338:PHE:HA	3:D:342:LEU:HB2	2.02	0.42
3:D:425:ARG:HG2	3:D:426:ALA:O	2.20	0.42
3:D:609:TYR:OH	3:D:906:GLY:HA3	2.20	0.42
3:D:869:CYS:CA	3:D:872:LEU:CD1	2.87	0.42
3:D:75:TYR:HB2	3:D:92:VAL:HG21	2.01	0.42
5:F:139:GLU:O	5:F:143:TYR:HD1	2.01	0.42
5:F:484:ALA:HA	5:F:494:ILE:HD11	2.01	0.42
5:F:519:LEU:CD1	5:F:522:PHE:HB3	2.49	0.42
1:G:190:ALA:CB	1:G:199:ASP:HA	2.50	0.42
2:I:1155:VAL:O	2:I:1155:VAL:HG12	2.20	0.42
2:I:118:LYS:HD3	2:I:488:MET:HE2	2.01	0.42
2:I:91:THR:CG2	2:I:138:ILE:CD1	2.98	0.42
2:I:251:ALA:CB	2:I:266:GLY:H	2.30	0.42
3:J:1342:ASP:OD1	3:J:1344:LEU:HD23	2.20	0.42
3:J:697:MET:O	3:J:701:LEU:HB2	2.20	0.42
3:J:748:ALA:HB2	3:J:941:ALA:CB	2.50	0.42
5:L:457:ILE:O	5:L:461:ASN:OD1	2.38	0.42
3:P:209:ASN:HD22	3:P:214:ARG:HD3	1.85	0.42
3:P:288:PRO:HG2	5:R:380:VAL:CG1	2.49	0.42
3:P:366:CYS:SG	3:P:437:PHE:HB3	2.60	0.42
3:P:417:ARG:HG2	3:P:418:GLU:HG2	2.02	0.42
3:P:553:THR:CG2	3:P:565:ALA:HB1	2.50	0.42
3:P:909:ILE:CG1	3:P:910:ASN:N	2.83	0.42
3:P:97:VAL:CG1	3:P:101:ARG:CD	2.97	0.42
1:A:149:GLY:HA3	1:A:177:TYR:CE2	2.55	0.41
1:A:186:ASN:O	1:A:202:VAL:HB	2.20	0.41
2:C:1202:GLY:C	2:C:1204:LEU:HG	2.40	0.41
2:C:368:ARG:NE	5:F:90:GLU:HG2	2.35	0.41
2:C:92:TYR:HB3	2:C:137:VAL:CG2	2.50	0.41
3:D:1282:TYR:O	3:D:1285:VAL:CG1	2.53	0.41
3:D:601:ILE:O	3:D:604:MET:HB2	2.20	0.41
3:D:809:VAL:CG1	3:D:911:LYS:HA	2.50	0.41
3:D:478:LEU:HD11	4:E:24:ALA:CA	2.49	0.41
4:E:6:VAL:CG1	4:E:51:LEU:HD22	2.50	0.41
1:H:201:LEU:HD12	1:H:201:LEU:HA	1.73	0.41
1:H:52:PRO:HA	1:H:150:ARG:CB	2.49	0.41
2:I:357:ASN:HB3	2:I:358:ASP:H	1.65	0.41
2:I:840:SER:O	2:I:840:SER:OG	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:169:LEU:CG	3:J:170:GLU:N	2.66	0.41
3:J:464:ASP:N	3:J:464:ASP:OD1	2.53	0.41
3:J:72:CYS:HB3	3:J:88:CYS:HB3	2.02	0.41
5:L:456:MET:HG3	5:L:460:ILE:HD11	2.02	0.41
2:O:185:ASP:C	2:O:186:PHE:HD2	2.23	0.41
2:O:346:TYR:HB2	2:O:347:ILE:HD13	2.02	0.41
2:O:563:THR:H	2:O:680:LEU:HD11	1.85	0.41
3:P:1145:PHE:CE1	3:P:1256:ILE:CD1	2.96	0.41
3:P:1297:LYS:HD3	3:P:1297:LYS:H	1.83	0.41
3:P:245:LEU:HD23	3:P:250:ARG:CG	2.50	0.41
3:P:265:LEU:H	3:P:265:LEU:HG	1.36	0.41
3:P:109:SER:CB	3:P:296:LYS:CE	2.79	0.41
3:P:922:SER:O	3:P:926:PRO:HD3	2.19	0.41
5:L:434:TRP:CE2	6:4:36:DT:C7	3.03	0.41
6:4:49:DG:H3'	6:4:50:DT:H5''	2.02	0.41
7:5:46:DT:H1'	7:5:47:DC:H5'	2.01	0.41
1:A:157:THR:O	1:A:160:HIS:CB	2.62	0.41
1:B:65:LEU:HA	1:B:169:GLY:HA3	2.01	0.41
2:C:1199:LEU:HD23	2:C:1204:LEU:HB2	2.01	0.41
2:C:1225:VAL:HG22	3:D:638:SER:HB3	2.02	0.41
2:C:559:CYS:HB2	2:C:662:SER:CB	2.50	0.41
2:C:592:ARG:HG3	2:C:653:MET:CE	2.49	0.41
2:C:693:LEU:HG	2:C:694:ARG:N	2.15	0.41
2:C:700:VAL:HG12	2:C:1117:LEU:HD23	2.01	0.41
2:C:857:VAL:HG13	2:C:858:GLY:N	2.35	0.41
3:D:1155:ILE:N	3:D:1211:SER:OG	2.51	0.41
3:D:1248:ILE:HG22	3:D:1249:ASN:N	2.34	0.41
3:D:338:PHE:CD1	3:D:1324:SER:HA	2.55	0.41
3:D:154:LEU:HD23	3:D:154:LEU:HA	1.85	0.41
3:D:421:VAL:HG12	3:D:422:LEU:N	2.35	0.41
5:F:505:ILE:HG22	5:F:506:SER:N	2.35	0.41
1:H:95:LYS:HD2	1:H:95:LYS:H	1.84	0.41
2:I:697:LYS:HA	2:I:698:PRO:HD3	1.89	0.41
2:I:871:VAL:HG12	2:I:872:TYR:O	2.19	0.41
2:I:887:VAL:CG2	2:I:887:VAL:O	2.68	0.41
3:J:1280:VAL:HG13	3:J:1281:GLU:H	1.86	0.41
3:J:26:SER:HB3	3:J:29:MET:HB2	2.02	0.41
2:I:1073:LYS:HE3	3:J:462:ASP:OD2	2.20	0.41
3:J:603:LYS:O	3:J:607:THR:OG1	2.31	0.41
3:J:849:LEU:HA	3:J:856:ILE:O	2.20	0.41
1:M:45:ARG:HD3	1:N:38:THR:CG2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:190:ALA:HB2	1:N:200:LYS:HG2	1.98	0.41
2:O:1073:LYS:HE3	3:P:462:ASP:CB	2.50	0.41
2:O:1151:LEU:HD11	2:O:1197:GLU:CD	2.40	0.41
2:O:221:LEU:HD23	2:O:221:LEU:HA	1.68	0.41
2:O:232:ILE:HD13	2:O:326:SER:HB3	2.02	0.41
2:O:373:GLY:O	5:R:87:VAL:CG1	2.68	0.41
2:O:392:GLU:HG2	2:O:419:ILE:CG2	2.47	0.41
3:P:580:TRP:O	3:P:580:TRP:CG	2.72	0.41
3:P:725:MET:HB3	3:P:725:MET:HE2	1.24	0.41
3:P:496:GLY:CA	3:P:903:LEU:HD22	2.48	0.41
5:R:450:ILE:H	5:R:450:ILE:HG12	1.35	0.41
7:2:40:DT:H2''	7:2:41:DG:C8	2.55	0.41
7:8:18:DT:H6	7:8:18:DT:H2'	1.62	0.41
1:B:162:GLU:HG2	1:B:164:ASP:HB3	2.02	0.41
1:B:64:VAL:HG12	1:B:64:VAL:O	2.20	0.41
2:C:896:THR:OG1	2:C:897:PRO:HD2	2.20	0.41
3:D:796:LEU:HA	3:D:799:ARG:HE	1.86	0.41
5:F:583:THR:HG21	5:F:586:ARG:CB	2.50	0.41
1:G:43:LEU:O	1:G:47:LEU:CG	2.43	0.41
1:G:57:THR:HG22	1:G:58:GLU:HG3	2.01	0.41
2:I:16:GLY:O	2:I:1156:ARG:NH2	2.53	0.41
2:I:1220:GLN:HG2	2:I:1221:PHE:O	2.20	0.41
2:I:129:LEU:HD23	2:I:129:LEU:HA	1.69	0.41
2:I:183:TRP:CE3	2:I:199:ASP:OD1	2.73	0.41
2:I:297:VAL:HG23	2:I:297:VAL:O	2.19	0.41
2:I:525:THR:CG2	2:I:687:ARG:HD2	2.48	0.41
3:J:1021:ASP:HA	3:J:1022:PRO:HD3	1.93	0.41
3:J:219:LYS:HG2	3:J:222:LYS:CD	2.50	0.41
2:I:1258:PRO:HG2	3:J:346:ARG:C	2.41	0.41
3:J:819:GLY:O	3:J:881:LYS:HE3	2.20	0.41
5:L:388:ILE:HG12	5:L:389:SER:N	2.35	0.41
1:M:154:PRO:HG2	1:M:157:THR:OG1	2.19	0.41
2:O:8:LYS:HG2	2:O:1164:PHE:CE1	2.55	0.41
2:O:1117:LEU:CD1	2:O:1195:ILE:HG12	2.47	0.41
2:O:99:LYS:CG	2:O:121:GLU:HG3	2.51	0.41
2:O:212:ALA:HB1	2:O:363:LEU:HD21	2.01	0.41
2:O:402:ARG:HG2	2:O:416:GLY:HA3	2.02	0.41
2:O:420:LEU:HA	2:O:420:LEU:HD23	1.69	0.41
3:P:33:TRP:O	3:P:35:PHE:CE2	2.74	0.41
3:P:735:ALA:O	3:P:738:ARG:HB2	2.20	0.41
5:R:100:MET:O	5:R:104:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:129:GLN:HB3	5:R:129:GLN:HE21	1.64	0.41
5:R:457:ILE:O	5:R:461:ASN:OD1	2.38	0.41
5:L:464:ASN:HB2	7:5:26:DT:C7	2.50	0.41
1:A:9:LEU:HD13	1:A:9:LEU:N	2.35	0.41
1:B:152:TYR:CD1	1:B:176:CYS:HA	2.55	0.41
2:C:122:VAL:HG21	2:C:493:ILE:HD12	2.02	0.41
2:C:802:VAL:HG12	2:C:803:ALA:N	2.34	0.41
3:D:123:ARG:HD3	3:D:123:ARG:HA	1.72	0.41
3:D:1292:LEU:O	3:D:1296:GLY:N	2.54	0.41
3:D:1347:LEU:O	3:D:1351:VAL:HG23	2.20	0.41
3:D:24:LEU:HD12	3:D:232:ASN:CB	2.48	0.41
3:D:296:LYS:O	3:D:299:LEU:HB3	2.21	0.41
5:F:547:VAL:CG1	5:F:598:LEU:HD22	2.51	0.41
5:F:91:ILE:HG22	5:F:91:ILE:O	2.20	0.41
1:H:64:VAL:HG12	1:H:64:VAL:O	2.20	0.41
2:I:558:VAL:CG1	2:I:573:ASN:HB3	2.50	0.41
2:I:726:TYR:HB3	2:I:733:VAL:HG23	2.02	0.41
2:I:871:VAL:HG21	2:I:883:LEU:HA	1.99	0.41
3:J:424:ASN:HA	3:J:434:ILE:HG12	2.01	0.41
4:K:26:ARG:HD2	4:K:26:ARG:HA	1.85	0.41
4:K:36:ASP:HA	4:K:37:PRO:HD2	1.98	0.41
4:K:64:LEU:HG	4:K:64:LEU:H	1.51	0.41
1:M:44:ARG:NH2	2:O:1082:ILE:O	2.54	0.41
2:O:389:PHE:HB2	2:O:390:PHE:CE2	2.56	0.41
2:O:901:LEU:HD13	5:R:563:PHE:CE1	2.54	0.41
2:O:928:VAL:O	2:O:928:VAL:HG12	2.21	0.41
3:P:1101:LEU:HD22	3:P:1122:ALA:HB2	2.02	0.41
3:P:28:ASP:HA	3:P:31:ARG:CD	2.49	0.41
3:P:337:ARG:HA	3:P:341:ASN:ND2	2.35	0.41
3:P:354:VAL:HG12	3:P:355:ILE:N	2.35	0.41
3:P:423:LEU:HD12	3:P:437:PHE:CE1	2.54	0.41
3:P:429:LEU:HB3	3:P:925:GLU:CG	2.50	0.41
3:P:351:GLY:C	3:P:468:VAL:HG23	2.40	0.41
3:P:547:ARG:O	3:P:548:VAL:HG23	2.20	0.41
3:P:515:ARG:HH21	3:P:717:VAL:HB	1.86	0.41
3:P:615:LYS:HE3	4:Q:8:ASP:OD1	2.21	0.41
5:R:116:GLU:H	5:R:116:GLU:HG3	1.57	0.41
5:R:449:THR:OG1	5:R:504:PRO:CG	2.68	0.41
3:P:398:LYS:NZ	5:R:532:LEU:CD2	2.84	0.41
1:A:12:ARG:O	1:A:28:LEU:HD22	2.20	0.41
1:A:232:VAL:CG2	1:B:221:ALA:CB	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:131:THR:HG23	2:C:135:THR:O	2.20	0.41
2:C:182:SER:HB2	2:C:199:ASP:CG	2.41	0.41
2:C:517:GLN:OE1	2:C:760:ASN:ND2	2.54	0.41
2:C:75:LEU:HA	2:C:75:LEU:HD23	1.87	0.41
3:D:421:VAL:HG21	3:D:439:PRO:HG2	1.99	0.41
5:F:223:GLU:O	5:F:227:GLN:HG2	2.21	0.41
1:G:201:LEU:HD12	1:G:202:VAL:H	1.85	0.41
2:I:128:PRO:O	2:I:129:LEU:HD23	2.20	0.41
2:I:183:TRP:C	2:I:184:LEU:HG	2.40	0.41
2:I:71:VAL:HG23	2:I:99:LYS:O	2.21	0.41
3:J:34:SER:HB2	3:J:104:HIS:HB3	2.01	0.41
3:J:252:LEU:HD12	3:J:262:THR:HB	2.03	0.41
3:J:253:VAL:CB	3:J:254:PRO:CD	2.97	0.41
3:J:466:MET:HB3	3:J:466:MET:HE2	1.90	0.41
3:J:886:VAL:HG13	3:J:1258:ARG:HA	2.01	0.41
1:N:142:MET:HE2	1:N:142:MET:HB3	1.58	0.41
2:O:678:ARG:NH1	2:O:1106:ARG:HD2	2.36	0.41
2:O:1107:MET:HB3	2:O:1107:MET:HE2	1.71	0.41
2:O:594:VAL:HG22	2:O:599:VAL:HG13	2.03	0.41
2:O:726:TYR:CE2	2:O:728:ASP:HB2	2.55	0.41
2:O:9:LYS:NZ	2:O:1171:ARG:HD3	2.35	0.41
3:P:116:PHE:O	3:P:124:ILE:HG13	2.21	0.41
3:P:162:GLU:O	3:P:166:LEU:HD12	2.21	0.41
3:P:550:VAL:CG1	3:P:552:ILE:HD11	2.50	0.41
3:P:572:THR:OG1	3:P:573:THR:N	2.53	0.41
3:P:915:ILE:O	3:P:918:ILE:HB	2.19	0.41
5:R:503:GLU:HG2	5:R:504:PRO:HD2	2.03	0.41
8:6:14:A:O2'	8:6:15:G:H5'	2.21	0.41
6:7:13:DC:H2'	6:7:14:DT:OP2	2.20	0.41
7:8:26:DT:H2''	7:8:27:DA:OP1	2.21	0.41
1:A:102:LEU:HD12	1:A:103:ASN:N	2.36	0.41
1:A:28:LEU:HA	1:A:28:LEU:HD22	1.56	0.41
1:A:49:SER:HG	1:B:35:PHE:HZ	1.64	0.41
2:C:211:ARG:NH2	2:C:217:THR:OG1	2.40	0.41
3:D:1135:THR:O	3:D:1139:PRO:CD	2.66	0.41
3:D:1175:LEU:HD12	3:D:1175:LEU:HA	1.54	0.41
3:D:1320:ILE:H	3:D:1320:ILE:HG13	1.51	0.41
3:D:412:LEU:HG	3:D:416:ILE:CD1	2.51	0.41
3:D:773:PHE:HD2	3:D:773:PHE:O	2.03	0.41
5:F:540:LEU:HD12	5:F:540:LEU:HA	1.69	0.41
5:F:540:LEU:HD13	5:F:610:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:47:LEU:O	1:G:180:VAL:HG21	2.21	0.41
2:I:91:THR:CG2	2:I:138:ILE:HD12	2.50	0.41
2:I:311:CYS:SG	2:I:325:LEU:HD21	2.61	0.41
2:I:389:PHE:HB2	2:I:390:PHE:CE2	2.55	0.41
3:J:1114:GLN:HE21	3:J:1114:GLN:HB3	1.72	0.41
3:J:1163:VAL:HG12	3:J:1175:LEU:HG	2.03	0.41
3:J:135:ILE:H	3:J:135:ILE:HG13	1.32	0.41
3:J:536:LEU:HD22	3:J:536:LEU:O	2.20	0.41
3:J:53:ARG:HG3	3:J:53:ARG:H	1.74	0.41
5:L:324:LYS:HA	5:L:325:PRO:HD2	1.84	0.41
5:L:385:ARG:CA	5:L:388:ILE:HG23	2.50	0.41
5:L:530:LEU:HD22	5:L:531:PRO:HD2	2.01	0.41
2:O:1030:GLU:O	2:O:1034:ARG:HG3	2.21	0.41
2:O:1109:ILE:CG2	2:O:1112:ILE:HD12	2.46	0.41
2:O:800:MET:CE	2:O:1095:ASP:OD2	2.68	0.41
3:P:342:LEU:HD13	3:P:1352:ILE:HG23	2.03	0.41
3:P:497:GLU:CB	3:P:498:PRO:HD2	2.50	0.41
3:P:611:ILE:HG22	3:P:612:LEU:HD23	2.02	0.41
3:P:864:LEU:HD13	3:P:872:LEU:CD1	2.51	0.41
5:R:407:GLU:CG	5:R:442:SER:CB	2.95	0.41
5:L:434:TRP:CZ3	6:4:35:DC:H5	2.38	0.41
2:C:1005:GLU:HB3	2:C:1006:GLU:H	1.61	0.41
2:C:1161:LEU:CD1	2:C:1164:PHE:HB2	2.48	0.41
2:C:523:GLU:O	2:C:527:LYS:HG3	2.20	0.41
2:C:765:ILE:O	2:C:765:ILE:HG22	2.20	0.41
2:C:801:ARG:O	2:C:1094:VAL:HG12	2.21	0.41
2:C:850:ILE:HG13	2:C:850:ILE:H	1.50	0.41
2:C:871:VAL:HG12	2:C:872:TYR:O	2.21	0.41
3:D:1090:ILE:HG22	3:D:1091:PRO:HD2	2.01	0.41
3:D:108:ALA:CB	3:D:279:LEU:HD21	2.40	0.41
3:D:749:LYS:O	3:D:750:PRO:C	2.59	0.41
5:F:457:ILE:O	5:F:461:ASN:OD1	2.39	0.41
1:G:41:ASN:O	1:G:45:ARG:HG3	2.21	0.41
1:H:25:LYS:HE2	1:H:204:GLU:OE2	2.21	0.41
1:H:61:ILE:CD1	1:H:61:ILE:N	2.79	0.41
2:I:830:THR:HG23	2:I:1234:LYS:HZ3	1.85	0.41
2:I:180:ARG:O	2:I:395:TYR:HA	2.20	0.41
3:J:1282:TYR:CE1	3:J:1304:ARG:NH2	2.88	0.41
3:J:1320:ILE:HD12	3:J:1344:LEU:HD22	2.03	0.41
3:J:334:LYS:HG3	3:J:339:ARG:HD2	2.03	0.41
2:O:797:GLY:N	2:O:1233:LEU:HD21	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:178:PRO:HA	2:O:397:LEU:CD2	2.45	0.41
3:P:358:GLY:HA3	3:P:361:LEU:HD12	2.03	0.41
5:R:402:LEU:HG	5:R:402:LEU:H	1.72	0.41
2:O:900:LYS:CD	5:R:563:PHE:CE1	3.04	0.41
7:2:33:DC:C2'	7:2:34:DG:OP2	2.62	0.41
1:A:102:LEU:HD13	1:A:115:ILE:HA	2.02	0.41
1:B:224:LEU:C	1:B:224:LEU:HD12	2.41	0.41
1:B:35:PHE:O	1:B:39:LEU:CD2	2.67	0.41
1:B:77:ASP:HB3	1:B:79:LEU:HD12	2.01	0.41
2:C:1246:ARG:NH2	2:C:1251:TYR:CE1	2.88	0.41
2:C:543:ALA:HB1	2:C:548:ARG:HE	1.85	0.41
2:C:772:SER:O	2:C:775:GLU:HG3	2.21	0.41
3:D:114:ILE:HG13	3:D:118:LYS:CG	2.51	0.41
3:D:552:ILE:HD13	3:D:552:ILE:HA	1.57	0.41
3:D:759:ILE:HD13	3:D:767:LEU:CD1	2.51	0.41
5:F:167:ASP:N	5:F:168:PRO:CD	2.83	0.41
5:F:167:ASP:HB2	5:F:262:VAL:CG2	2.51	0.41
5:F:470:MET:SD	5:F:486:ARG:HD2	2.60	0.41
3:D:263:SER:HB2	5:F:507:MET:SD	2.61	0.41
1:G:30:PRO:O	1:G:31:LEU:HD23	2.21	0.41
2:I:1088:ASP:OD1	2:I:1088:ASP:N	2.51	0.41
2:I:1269:ARG:HG3	3:J:345:LYS:C	2.41	0.41
2:I:285:ILE:HG22	2:I:286:GLU:N	2.36	0.41
2:I:668:ILE:HA	2:I:669:PRO:HD3	1.71	0.41
3:J:367:GLY:O	3:J:447:ILE:CG2	2.69	0.41
3:J:709:ARG:O	3:J:709:ARG:CG	2.66	0.41
5:L:170:ALA:HA	5:L:259:PHE:CD1	2.54	0.41
5:L:587:ILE:HG12	5:L:587:ILE:H	1.61	0.41
1:M:131:CYS:SG	1:M:132:HIS:N	2.94	0.41
1:M:227:GLN:OE1	1:N:11:PRO:HD3	2.21	0.41
2:O:16:GLY:O	2:O:1156:ARG:HB3	2.21	0.41
2:O:39:ILE:O	2:O:39:ILE:HG22	2.21	0.41
3:P:1176:VAL:HG22	3:P:1187:GLU:CD	2.41	0.41
3:P:1257:VAL:HA	3:P:1260:MET:HG3	2.02	0.41
3:P:1282:TYR:C	3:P:1285:VAL:HG12	2.40	0.41
2:O:1333:LEU:CD2	3:P:327:LEU:HD13	2.51	0.41
3:P:381:ILE:O	3:P:385:LEU:HG	2.19	0.41
4:Q:81:GLN:HG2	4:Q:81:GLN:H	1.62	0.41
5:F:451:ARG:NH1	6:1:32:DA:OP1	2.43	0.41
7:2:5:DC:OP2	7:2:5:DC:H2'	2.21	0.41
2:C:1065:LYS:HZ1	8:3:15:G:H4'	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1094:VAL:HG12	2:C:1095:ASP:H	1.86	0.41
2:C:1139:ALA:O	2:C:1142:ARG:HB3	2.21	0.41
2:C:551:HIS:HA	2:C:552:PRO:HD3	1.93	0.41
3:D:159:ILE:HG13	3:D:159:ILE:H	1.51	0.41
3:D:620:PHE:C	3:D:624:ILE:HD11	2.41	0.41
5:F:575:GLU:HA	5:F:578:LYS:HE2	2.03	0.41
1:G:167:PRO:CG	1:G:170:ARG:HD2	2.37	0.41
1:G:47:LEU:HG	1:G:47:LEU:H	1.73	0.41
1:G:56:VAL:HG13	1:G:144:ILE:CG2	2.51	0.41
2:I:1101:LEU:HD11	3:J:508:LEU:HD23	2.02	0.41
1:H:41:ASN:ND2	2:I:1217:THR:O	2.53	0.41
2:I:160:ASP:HB3	2:I:163:LYS:CG	2.51	0.41
2:I:227:LYS:HZ1	2:I:298:ALA:HB1	1.83	0.41
2:I:506:PHE:O	2:I:512:SER:HB2	2.21	0.41
2:I:615:VAL:CG2	2:I:638:SER:HB2	2.46	0.41
2:I:824:GLN:HE22	2:I:1082:ILE:HD11	1.86	0.41
2:I:997:TRP:O	2:I:1000:LEU:CB	2.68	0.41
3:J:227:PHE:CE1	3:J:232:ASN:C	2.92	0.41
3:J:245:LEU:HG	3:J:249:LEU:HD12	2.02	0.41
3:J:963:VAL:HB	3:J:980:THR:HG23	2.02	0.41
3:J:953:LYS:HD2	3:J:993:GLU:OE2	2.20	0.41
5:L:241:SER:HB3	5:L:249:ILE:HD12	2.03	0.41
5:L:366:SER:HA	5:L:369:GLU:CD	2.41	0.41
1:M:36:GLY:O	1:M:201:LEU:HD13	2.21	0.41
2:O:228:VAL:CG2	2:O:337:PHE:HD1	2.34	0.41
2:O:46:GLN:H	2:O:46:GLN:HG2	1.62	0.41
2:O:589:THR:CG2	2:O:590:PRO:CD	2.91	0.41
3:P:1156:LEU:CD2	3:P:1209:VAL:HA	2.50	0.41
3:P:1320:ILE:H	3:P:1320:ILE:HG13	1.67	0.41
3:P:1332:LEU:CD2	3:P:1332:LEU:N	2.64	0.41
3:P:1347:LEU:HD22	3:P:1357:ILE:HG22	2.03	0.41
3:P:279:LEU:O	3:P:283:LEU:HG	2.21	0.41
3:P:653:ILE:HG21	3:P:693:VAL:HG22	2.02	0.41
5:R:387:VAL:HG11	5:R:409:ASN:OD1	2.21	0.41
5:F:110:LEU:CD2	6:1:41:DT:C2	3.04	0.41
6:4:47:DC:C3'	6:4:48:DA:C5'	2.96	0.41
3:J:791:ALA:HA	7:5:12:DG:H8	1.85	0.41
1:A:100:LEU:HD23	1:A:100:LEU:HA	1.67	0.41
2:C:1333:LEU:HD23	2:C:1333:LEU:HA	1.47	0.41
2:C:197:ARG:HA	2:C:202:ARG:O	2.20	0.41
2:C:194:LEU:HD13	2:C:432:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:575:LEU:HD12	2:C:576:SER:H	1.86	0.41
2:C:884:VAL:HG11	2:C:1050:VAL:HG21	2.02	0.41
3:D:369:PRO:HG2	3:D:372:MET:HE3	2.02	0.41
3:D:835:LEU:CD1	3:D:839:VAL:HG23	2.51	0.41
4:E:21:LEU:O	4:E:21:LEU:HD23	2.20	0.41
1:H:178:SER:HB2	3:J:535:ARG:NH1	2.35	0.41
2:I:1273:MET:HA	2:I:1276:TRP:CE3	2.56	0.41
2:I:269:ILE:HD12	2:I:273:HIS:CG	2.56	0.41
2:I:996:ARG:C	2:I:997:TRP:HD1	2.24	0.41
3:J:160:LEU:HD22	3:J:164:GLN:CB	2.50	0.41
3:J:521:LYS:HB2	3:J:542:ALA:HA	2.03	0.41
3:J:749:LYS:HG3	3:J:755:ILE:HG12	2.03	0.41
3:J:786:THR:HG22	3:J:787:ALA:N	2.35	0.41
3:J:848:VAL:HG11	3:J:880:VAL:CG2	2.36	0.41
3:J:879:ALA:O	3:J:880:VAL:CG2	2.69	0.41
3:J:894:VAL:HG21	3:J:915:ILE:HD12	2.03	0.41
1:M:57:THR:CG2	1:M:158:ARG:CZ	2.98	0.41
2:O:1101:LEU:HD23	2:O:1101:LEU:HA	1.87	0.41
3:P:1153:PRO:HB3	3:P:1216:ALA:HB2	2.03	0.41
2:O:1284:ALA:O	3:P:1356:LEU:HD21	2.21	0.41
3:P:536:LEU:HD13	3:P:542:ALA:CB	2.51	0.41
3:P:513:MET:HE1	3:P:579:LEU:HD21	1.97	0.41
3:P:661:VAL:HG21	3:P:686:TRP:CH2	2.56	0.41
3:P:721:SER:O	3:P:725:MET:HG3	2.21	0.41
3:P:615:LYS:NZ	4:Q:5:THR:O	2.38	0.41
5:R:573:LEU:O	5:R:573:LEU:HD12	2.21	0.41
1:A:90:VAL:HG11	1:A:146:VAL:HG11	2.03	0.41
1:B:182:ARG:HB3	1:B:206:GLU:HB3	2.02	0.41
1:B:39:LEU:H	1:B:39:LEU:HD23	1.73	0.41
2:C:184:LEU:HA	2:C:184:LEU:HD23	1.85	0.41
2:C:389:PHE:HB3	2:C:420:LEU:CD1	2.48	0.41
2:C:49:LEU:HD13	2:C:73:TYR:CZ	2.56	0.41
2:C:565:GLU:HB3	3:D:783:LEU:HD21	2.03	0.41
3:D:1259:GLN:OE1	3:D:1262:ARG:HD2	2.21	0.41
3:D:1349:GLU:HG3	3:D:1349:GLU:H	1.54	0.41
3:D:430:HIS:HA	3:D:921:GLN:HB3	2.03	0.41
3:D:925:GLU:N	3:D:926:PRO:CD	2.85	0.41
2:I:657:THR:HG21	2:I:1188:ASP:HB2	2.02	0.41
2:I:901:LEU:O	2:I:905:ILE:HG13	2.20	0.41
2:I:950:GLU:HA	2:I:953:LEU:HD12	2.03	0.41
3:J:1233:ILE:HG22	3:J:1237:VAL:CG2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1285:VAL:HG13	3:J:1286:LYS:N	2.36	0.41
3:J:1352:ILE:HD12	3:J:1352:ILE:H	1.85	0.41
2:I:1294:LYS:NZ	3:J:349:TYR:HB2	2.36	0.41
3:J:386:GLU:OE1	3:J:394:ILE:HG12	2.21	0.41
2:I:1242:LYS:NZ	3:J:465:GLN:NE2	2.68	0.41
3:J:490:ILE:HA	3:J:500:ILE:CD1	2.51	0.41
5:L:540:LEU:HD12	5:L:544:THR:HG23	2.03	0.41
1:M:185:TYR:CD2	1:M:185:TYR:C	2.95	0.41
1:N:32:GLU:HB3	1:N:35:PHE:CD2	2.56	0.41
1:N:47:LEU:HD22	1:N:180:VAL:HG21	2.03	0.41
2:O:1252:SER:HB2	2:O:1259:LEU:HD23	2.03	0.41
2:O:135:THR:HG21	2:O:515:MET:SD	2.61	0.41
2:O:672:GLU:HG2	2:O:1187:PHE:CA	2.42	0.41
3:P:45:ASN:HB3	3:P:48:THR:O	2.21	0.41
3:P:555:TYR:HB2	3:P:586:GLY:CA	2.50	0.41
3:P:835:LEU:HD21	3:P:880:VAL:HG23	2.02	0.41
6:1:48:DA:H2'	6:1:49:DG:C8	2.55	0.40
7:8:21:DG:H2'	7:8:22:DA:C8	2.56	0.40
1:B:144:ILE:N	1:B:144:ILE:CD1	2.75	0.40
1:B:201:LEU:HG	1:B:203:ILE:CD1	2.41	0.40
2:C:1060:ILE:HG22	2:C:1060:ILE:H	1.50	0.40
2:C:12:ARG:CZ	2:C:1181:PRO:HB2	2.50	0.40
2:C:211:ARG:HG2	2:C:211:ARG:NH1	2.33	0.40
2:C:565:GLU:H	2:C:565:GLU:HG2	1.57	0.40
2:C:838:CYS:HB3	2:C:1050:VAL:HB	2.02	0.40
2:C:936:ARG:HG3	2:C:937:ASP:H	1.85	0.40
3:D:1159:ILE:HA	3:D:1206:ARG:HG2	2.03	0.40
3:D:1357:ILE:HG22	3:D:1359:ALA:N	2.36	0.40
3:D:227:PHE:CZ	3:D:234:PRO:HA	2.52	0.40
4:E:60:ASN:HB3	4:E:63:ILE:HG13	2.02	0.40
5:F:105:MET:CE	5:F:106:GLY:N	2.84	0.40
5:F:117:ILE:CG2	5:F:421:TYR:HB2	2.39	0.40
1:G:179:PRO:HD2	1:G:180:VAL:HG23	2.02	0.40
2:I:1256:GLN:HE21	3:J:99:ARG:HH22	1.68	0.40
3:J:1265:THR:HG1	3:J:1305:ASP:CG	2.23	0.40
3:J:185:ILE:HA	3:J:185:ILE:HD13	1.83	0.40
3:J:363:LEU:O	3:J:363:LEU:HD12	2.21	0.40
3:J:433:GLY:O	3:J:457:TYR:HE1	2.04	0.40
3:J:791:ALA:HA	7:5:12:DG:C8	2.56	0.40
3:J:978:ARG:HH21	3:J:1195:GLN:CD	2.25	0.40
4:K:39:VAL:HA	4:K:40:PRO:HD3	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:437:GLN:HG2	6:4:35:DC:C4	2.55	0.40
5:L:583:THR:HG21	5:L:586:ARG:HB2	2.03	0.40
1:M:192:VAL:HG12	1:M:193:GLU:N	2.37	0.40
1:N:56:VAL:HG21	1:N:85:LEU:HB3	2.03	0.40
2:O:1036:ILE:HG13	2:O:1036:ILE:H	1.62	0.40
2:O:1106:ARG:O	2:O:1107:MET:HB2	2.21	0.40
2:O:1264:GLN:O	2:O:1265:PHE:CB	2.69	0.40
2:O:642:SER:O	2:O:643:SER:HB3	2.21	0.40
2:O:690:VAL:CG1	2:O:691:PRO:CD	2.99	0.40
2:O:704:MET:HE2	2:O:704:MET:HB3	1.76	0.40
2:O:692:THR:HG21	2:O:798:GLN:OE1	2.20	0.40
2:O:868:SER:HB2	2:O:870:ILE:CG1	2.50	0.40
3:P:1075:ARG:CB	3:P:1192:LYS:HD3	2.51	0.40
3:P:1229:VAL:O	3:P:1233:ILE:HG13	2.21	0.40
3:P:1343:GLU:O	3:P:1344:LEU:HB2	2.21	0.40
2:O:1280:ALA:CB	3:P:431:ARG:HB3	2.51	0.40
5:R:306:PHE:CD1	5:R:315:TRP:CZ2	3.09	0.40
5:R:322:MET:O	5:R:323:ASN:CB	2.67	0.40
5:R:96:ASP:HB3	5:R:99:ARG:HG2	2.03	0.40
2:C:1273:MET:HE2	7:2:13:DA:H5"	1.99	0.40
2:C:1268:GLN:HE22	3:D:351:GLY:HA2	1.85	0.40
2:C:1309:VAL:HG22	3:D:379:PRO:O	2.21	0.40
2:C:538:LEU:HD12	2:C:547:VAL:HG11	2.03	0.40
2:C:609:ILE:H	2:C:609:ILE:HG13	1.31	0.40
3:D:117:LEU:O	3:D:122:SER:HB2	2.21	0.40
3:D:269:TYR:O	3:D:272:VAL:HB	2.21	0.40
5:F:110:LEU:H	5:F:110:LEU:CD1	2.20	0.40
2:I:816:ILE:HD12	2:I:1074:GLY:HA3	1.99	0.40
2:I:35:PHE:CE2	2:I:39:ILE:HD11	2.55	0.40
3:J:161:THR:OG1	3:J:164:GLN:NE2	2.54	0.40
3:J:219:LYS:HA	3:J:222:LYS:HG3	2.03	0.40
3:J:624:ILE:O	3:J:627:THR:HB	2.21	0.40
1:N:217:ILE:HG22	1:N:218:ARG:N	2.34	0.40
2:O:671:LEU:CB	2:O:1186:VAL:HG13	2.50	0.40
2:O:211:ARG:NH2	2:O:351:LEU:CD2	2.85	0.40
2:O:519:ASN:OD1	2:O:522:SER:HB2	2.21	0.40
2:O:7:GLU:HG2	2:O:706:ARG:HH12	1.86	0.40
2:O:933:VAL:C	2:O:934:PHE:CD1	2.95	0.40
3:P:1347:LEU:HD22	3:P:1357:ILE:CG2	2.52	0.40
3:P:416:ILE:O	3:P:416:ILE:CG2	2.65	0.40
7:8:16:DC:O2	8:9:14:A:C2	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:183:ILE:O	1:B:183:ILE:HG23	2.20	0.40
2:C:388:LEU:HB3	2:C:389:PHE:CD1	2.56	0.40
3:D:111:THR:CG2	3:D:112:ALA:N	2.84	0.40
3:D:512:TYR:CE1	3:D:545:HIS:CE1	3.09	0.40
3:D:647:PRO:HG3	3:D:697:MET:HA	2.02	0.40
3:D:795:TYR:CD1	7:2:11:DA:C5'	3.03	0.40
3:D:901:ARG:HD3	3:D:903:LEU:HD23	2.04	0.40
3:D:808:VAL:HG22	3:D:914:ALA:HA	2.04	0.40
1:H:35:PHE:HB3	1:H:39:LEU:HD11	2.04	0.40
2:I:213:LEU:HD11	2:I:390:PHE:CE1	2.57	0.40
2:I:524:ILE:HD11	2:I:712:SER:CB	2.30	0.40
2:I:541:GLU:HG3	2:I:542:ARG:N	2.37	0.40
2:I:448:LEU:CG	2:I:553:THR:CB	2.98	0.40
2:I:56:VAL:HG21	2:I:468:LEU:HB3	2.03	0.40
3:J:1141:VAL:HG21	3:J:1240:VAL:HG11	2.03	0.40
3:J:757:THR:HA	3:J:758:PRO:HD3	1.82	0.40
3:J:70:CYS:CA	3:J:90:VAL:HG11	2.51	0.40
3:J:958:ILE:HG23	3:J:982:LEU:CD1	2.51	0.40
1:M:158:ARG:HE	1:M:172:LEU:HD11	1.87	0.40
1:N:58:GLU:OE1	1:N:170:ARG:HG2	2.21	0.40
2:O:1016:GLU:O	2:O:1019:ASP:HB2	2.22	0.40
2:O:232:ILE:HG22	2:O:331:LYS:HE3	2.04	0.40
2:O:725:GLN:HB2	2:O:735:LYS:HG3	2.03	0.40
3:P:1311:LYS:HE2	6:7:56:DG:H4'	2.03	0.40
3:P:574:VAL:O	3:P:578:ILE:HG13	2.21	0.40
5:R:423:ARG:NH1	5:R:425:TYR:CD2	2.89	0.40
5:R:449:THR:OG1	5:R:504:PRO:HG3	2.20	0.40
5:L:386:LEU:HD13	6:4:41:DT:O4'	2.22	0.40
5:R:454:VAL:HG21	6:7:32:DA:N7	2.37	0.40
5:R:99:ARG:HH12	6:7:44:DG:H21	1.69	0.40
3:P:795:TYR:CD1	7:8:11:DA:H5'	2.55	0.40
1:A:75:GLN:HG3	1:A:132:HIS:HB2	2.04	0.40
1:B:83:LEU:HD22	1:B:86:LYS:HE3	2.02	0.40
2:C:152:SER:HA	2:C:153:PRO:HD3	1.96	0.40
2:C:414:ILE:HG13	2:C:415:GLU:N	2.37	0.40
2:C:857:VAL:CG1	2:C:858:GLY:N	2.84	0.40
2:C:878:THR:HA	2:C:925:SER:HB2	2.03	0.40
2:C:988:LYS:NZ	2:C:988:LYS:CB	2.56	0.40
3:D:1040:MET:HE3	3:D:1061:VAL:HG22	2.04	0.40
3:D:126:LEU:HD22	3:D:216:LYS:NZ	2.36	0.40
5:F:245:ALA:O	5:F:249:ILE:HG13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:289:LYS:HG3	5:F:293:GLU:OE1	2.21	0.40
5:F:376:LYS:O	5:F:380:VAL:HG23	2.22	0.40
5:F:528:LEU:HD23	5:F:528:LEU:HA	1.74	0.40
1:H:73:GLY:HA3	1:H:138:ALA:HB2	2.02	0.40
1:H:67:GLU:OE1	1:H:171:LEU:HB3	2.21	0.40
2:I:103:VAL:HG22	2:I:117:ILE:HG23	2.04	0.40
2:I:1132:LEU:CD1	2:I:1177:ARG:HB2	2.51	0.40
2:I:1150:ASP:OD2	2:I:1158:LYS:HG3	2.21	0.40
2:I:1280:ALA:CB	3:J:431:ARG:CB	2.80	0.40
2:I:1326:LEU:O	2:I:1330:ILE:CG1	2.69	0.40
2:I:289:VAL:HG12	2:I:289:VAL:O	2.21	0.40
2:I:470:ARG:NH1	2:I:473:ARG:NH2	2.69	0.40
2:I:766:ASN:ND2	2:I:766:ASN:C	2.74	0.40
2:I:950:GLU:HG3	2:I:953:LEU:HD12	2.03	0.40
3:J:1163:VAL:CG1	3:J:1175:LEU:HG	2.51	0.40
3:J:127:LEU:HA	3:J:127:LEU:HD23	1.90	0.40
3:J:227:PHE:HE2	3:J:237:MET:CE	2.35	0.40
3:J:282:LEU:HD23	3:J:282:LEU:HA	1.70	0.40
3:J:386:GLU:OE1	3:J:394:ILE:CG1	2.69	0.40
3:J:425:ARG:HB2	3:J:457:TYR:CD1	2.57	0.40
3:J:812:ASP:OD1	3:J:812:ASP:N	2.54	0.40
5:L:290:LEU:HD23	5:L:290:LEU:HA	1.94	0.40
5:L:454:VAL:HG23	5:L:454:VAL:H	1.55	0.40
2:O:1235:LEU:CD2	2:O:1235:LEU:N	2.79	0.40
2:O:204:LEU:HD11	2:O:369:MET:SD	2.62	0.40
2:O:295:LYS:HA	2:O:295:LYS:HD3	1.87	0.40
2:O:810:TYR:CB	2:O:817:LEU:HD21	2.51	0.40
2:O:894:GLN:H	2:O:894:GLN:HG2	1.72	0.40
2:O:1244:HIS:H	3:P:372:MET:HE1	1.87	0.40
3:P:394:ILE:HD12	5:R:539:SER:CB	2.51	0.40
3:P:759:ILE:HG12	3:P:771:GLN:HG2	2.02	0.40
3:P:644:MET:O	3:P:764:ARG:NH1	2.54	0.40
4:Q:63:ILE:O	4:Q:67:ARG:HB2	2.22	0.40
5:R:423:ARG:HD2	6:7:37:DA:C6	2.57	0.40
5:R:423:ARG:NH1	6:7:37:DA:N3	2.69	0.40
8:6:13:GTP:N2	8:6:14:A:N3	2.70	0.40
5:R:454:VAL:HG11	6:7:33:DT:O4	2.20	0.40
1:B:46:ILE:H	1:B:46:ILE:HG13	1.71	0.40
2:C:1227:VAL:CG1	2:C:1228:GLY:H	2.30	0.40
2:C:902:LEU:HA	2:C:902:LEU:HD12	2.00	0.40
3:D:1151:LYS:H	3:D:1151:LYS:HD2	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1261:LEU:HD23	3:D:1261:LEU:HA	1.86	0.40
3:D:423:LEU:CD2	3:D:468:VAL:HG13	2.52	0.40
3:D:773:PHE:CD2	3:D:773:PHE:C	2.95	0.40
1:G:108:GLY:O	1:G:133:LEU:HD12	2.22	0.40
1:G:33:ARG:HG3	1:G:33:ARG:H	1.63	0.40
2:I:1184:THR:OG1	2:I:1189:GLY:HA3	2.21	0.40
2:I:351:LEU:HD23	2:I:351:LEU:HA	1.89	0.40
2:I:932:GLN:HE21	2:I:1053:TYR:HE2	1.68	0.40
2:I:948:ILE:O	2:I:951:MET:HB2	2.22	0.40
2:I:979:LEU:HD21	2:I:1011:LEU:HD13	2.03	0.40
3:J:126:LEU:HD23	3:J:126:LEU:HA	1.57	0.40
3:J:1146:GLU:OE2	3:J:1309:ILE:CG2	2.70	0.40
3:J:984:LEU:HD23	3:J:992:LYS:HD3	2.03	0.40
5:L:151:VAL:HG13	5:L:152:GLU:N	2.37	0.40
5:L:341:LEU:HD23	5:L:341:LEU:O	2.21	0.40
5:L:583:THR:HG22	5:L:586:ARG:HB3	2.02	0.40
2:O:113:THR:OG1	2:O:113:THR:O	2.36	0.40
2:O:583:GLU:CD	2:O:583:GLU:H	2.24	0.40
3:P:419:HIS:CE1	3:P:477:GLN:CD	2.95	0.40
3:P:536:LEU:HB3	3:P:542:ALA:HB3	2.02	0.40
3:P:708:ASN:O	3:P:710:ASP:N	2.47	0.40
5:R:494:ILE:O	5:R:498:LEU:HG	2.21	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:2:3:DG:O5'	7:2:51:DT:O3'[2_657]	1.64	0.56
3:D:1174:ARG:NH2	6:1:17:DA:OP1[2_657]	2.10	0.10
6:7:12:DA:O5'	6:7:60:DC:O3'[2_546]	2.13	0.07

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	228/242 (94%)	213 (93%)	11 (5%)	4 (2%)	11	53
1	B	226/242 (93%)	204 (90%)	14 (6%)	8 (4%)	4	39
1	G	228/242 (94%)	211 (92%)	14 (6%)	3 (1%)	15	59
1	H	226/242 (93%)	205 (91%)	17 (8%)	4 (2%)	11	53
1	M	228/242 (94%)	215 (94%)	12 (5%)	1 (0%)	39	80
1	N	226/242 (93%)	208 (92%)	12 (5%)	6 (3%)	6	44
2	C	1339/1342 (100%)	1220 (91%)	97 (7%)	22 (2%)	12	56
2	I	1339/1342 (100%)	1226 (92%)	88 (7%)	25 (2%)	10	52
2	O	1339/1342 (100%)	1235 (92%)	82 (6%)	22 (2%)	12	56
3	D	1360/1407 (97%)	1212 (89%)	120 (9%)	28 (2%)	9	50
3	J	1360/1407 (97%)	1212 (89%)	113 (8%)	35 (3%)	7	45
3	P	1360/1407 (97%)	1214 (89%)	111 (8%)	35 (3%)	7	45
4	E	88/90 (98%)	84 (96%)	4 (4%)	0	100	100
4	K	88/90 (98%)	84 (96%)	4 (4%)	0	100	100
4	Q	88/90 (98%)	84 (96%)	4 (4%)	0	100	100
5	F	493/628 (78%)	449 (91%)	30 (6%)	14 (3%)	6	44
5	L	493/628 (78%)	444 (90%)	30 (6%)	19 (4%)	4	36
5	R	493/628 (78%)	447 (91%)	30 (6%)	16 (3%)	5	41
All	All	11202/11853 (94%)	10167 (91%)	793 (7%)	242 (2%)	8	49

All (242) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	210	THR
1	B	209	GLY
2	C	165	HIS
2	C	808	ASN
2	C	812	PHE
2	C	1162	SER
3	D	53	ARG
3	D	321	LYS
3	D	519	ASN
3	D	749	LYS
3	D	769	VAL
3	D	947	GLU

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Mol	Chain	Res	Type
3	D	965	SER
3	D	1097	ALA
3	D	1268	ASN
3	D	1274	PHE
3	D	1275	LEU
3	D	1297	LYS
3	D	1309	ILE
5	F	243	ALA
5	F	296	LYS
5	F	310	GLU
5	F	325	PRO
5	F	397	ARG
5	F	515	GLU
5	F	553	ALA
5	F	581	ASP
1	H	117	HIS
2	I	247	ARG
2	I	341	LEU
2	I	791	LEU
2	I	808	ASN
2	I	812	PHE
2	I	1162	SER
3	J	53	ARG
3	J	321	LYS
3	J	519	ASN
3	J	704	GLU
3	J	943	ARG
3	J	944	ALA
3	J	945	ALA
3	J	1024	THR
3	J	1133	ASP
3	J	1268	ASN
3	J	1275	LEU
3	J	1297	LYS
3	J	1309	ILE
5	L	243	ALA
5	L	296	LYS
5	L	310	GLU
5	L	325	PRO
5	L	447	ALA
5	L	515	GLU
5	L	519	LEU

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Mol	Chain	Res	Type
5	L	553	ALA
5	L	581	ASP
2	O	107	ARG
2	O	111	GLU
2	O	113	THR
2	O	341	LEU
2	O	481	LEU
2	O	791	LEU
2	O	808	ASN
2	O	812	PHE
2	O	1135	GLN
2	O	1162	SER
3	P	53	ARG
3	P	404	GLU
3	P	519	ASN
3	P	1019	ASN
3	P	1024	THR
3	P	1097	ALA
3	P	1268	ASN
3	P	1275	LEU
3	P	1297	LYS
3	P	1318	SER
5	R	243	ALA
5	R	519	LEU
5	R	581	ASP
1	A	93	GLN
1	A	209	GLY
1	B	55	ALA
1	B	118	ASP
1	B	119	GLY
2	C	113	THR
2	C	643	SER
2	C	730	SER
2	C	791	LEU
2	C	1135	GLN
3	D	590	SER
3	D	715	LYS
3	D	876	SER
3	D	966	VAL
3	D	1019	ASN
3	D	1023	HIS
3	D	1024	THR

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Mol	Chain	Res	Type
5	F	166	VAL
1	H	118	ASP
1	H	119	GLY
1	H	209	GLY
2	I	314	ASN
2	I	625	GLU
2	I	730	SER
3	J	174	ASP
3	J	523	GLU
3	J	590	SER
3	J	731	ARG
3	J	1201	GLY
3	J	1234	VAL
3	J	1318	SER
5	L	93	ARG
5	L	155	GLU
5	L	166	VAL
5	L	400	GLN
1	M	209	GLY
1	N	118	ASP
1	N	119	GLY
2	O	247	ARG
2	O	314	ASN
2	O	730	SER
3	P	174	ASP
3	P	321	LYS
3	P	333	GLY
3	P	590	SER
3	P	704	GLU
3	P	827	GLU
3	P	846	GLU
3	P	855	ASP
3	P	1200	GLU
3	P	1201	GLY
3	P	1317	GLU
3	P	1344	LEU
1	B	164	ASP
1	B	194	GLN
2	C	200	ARG
2	C	247	ARG
2	C	341	LEU
2	C	669	PRO

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Mol	Chain	Res	Type
2	C	912	ASP
3	D	122	SER
3	D	174	ASP
5	F	447	ALA
1	G	210	THR
2	I	113	THR
2	I	165	HIS
2	I	410	LEU
2	I	986	ALA
3	J	749	LYS
3	J	769	VAL
3	J	855	ASP
3	J	1097	ALA
3	J	1200	GLU
5	L	113	ARG
5	L	583	THR
1	N	194	GLN
2	O	165	HIS
2	O	281	ASP
2	O	986	ALA
2	O	1187	PHE
3	P	122	SER
3	P	876	SER
5	R	113	ARG
5	R	154	GLU
5	R	166	VAL
5	R	323	ASN
5	R	395	THR
5	R	553	ALA
1	B	193	GLU
2	C	26	TYR
2	C	281	ASP
2	C	288	PRO
2	C	314	ASN
3	D	520	ALA
3	D	855	ASP
3	D	948	SER
5	F	91	ILE
2	I	163	LYS
2	I	167	SER
2	I	913	VAL
3	J	122	SER

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Mol	Chain	Res	Type
3	J	1104	LYS
3	J	1114	GLN
3	J	1325	PHE
5	L	107	THR
5	L	476	ARG
2	O	163	LYS
2	O	787	PRO
2	O	922	ASN
2	O	1203	ASP
3	P	49	PHE
3	P	542	ALA
3	P	709	ARG
3	P	749	LYS
5	R	238	LYS
5	R	330	LEU
5	R	447	ALA
5	R	478	PRO
2	C	258	ASN
2	C	910	ALA
3	D	846	GLU
5	F	155	GLU
5	F	519	LEU
5	F	582	VAL
2	I	40	GLU
2	I	45	GLY
2	I	258	ASN
3	J	750	PRO
3	J	876	SER
3	J	1185	PRO
5	L	446	GLN
1	N	117	HIS
1	N	191	ARG
1	N	209	GLY
3	P	750	PRO
5	R	310	GLU
1	G	195	ARG
1	G	209	GLY
2	I	16	GLY
2	I	398	SER
3	J	353	SER
3	J	462	ASP
3	P	769	VAL

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Mol	Chain	Res	Type
3	P	948	SER
3	P	1108	GLN
3	P	1114	GLN
5	R	91	ILE
2	C	110	PRO
3	D	758	PRO
2	O	43	PRO
5	R	582	VAL
2	C	984	VAL
3	P	828	GLY
3	D	586	GLY
2	I	162	GLY
2	I	787	PRO
1	A	19	VAL
2	I	110	PRO
2	I	563	THR
3	J	583	VAL
5	L	582	VAL
3	P	378	LYS
1	B	30	PRO

### 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	198/208 (95%)	166 (84%)	32 (16%)	3	20
1	B	196/208 (94%)	163 (83%)	33 (17%)	2	19
1	G	198/208 (95%)	180 (91%)	18 (9%)	12	44
1	H	196/208 (94%)	171 (87%)	25 (13%)	5	29
1	M	198/208 (95%)	183 (92%)	15 (8%)	16	53
1	N	196/208 (94%)	179 (91%)	17 (9%)	13	46
2	C	1156/1157 (100%)	1027 (89%)	129 (11%)	7	34
2	I	1156/1157 (100%)	1038 (90%)	118 (10%)	9	38

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	O	1156/1157 (100%)	1044 (90%)	112 (10%)	10	40
3	D	1135/1168 (97%)	1009 (89%)	126 (11%)	8	34
3	J	1135/1168 (97%)	1003 (88%)	132 (12%)	7	32
3	P	1135/1168 (97%)	1014 (89%)	121 (11%)	8	36
4	E	74/74 (100%)	71 (96%)	3 (4%)	37	71
4	K	74/74 (100%)	65 (88%)	9 (12%)	6	31
4	Q	74/74 (100%)	68 (92%)	6 (8%)	15	50
5	F	439/554 (79%)	395 (90%)	44 (10%)	9	38
5	L	439/554 (79%)	401 (91%)	38 (9%)	13	46
5	R	439/554 (79%)	384 (88%)	55 (12%)	6	30
All	All	9594/10107 (95%)	8561 (89%)	1033 (11%)	8	36

All (1033) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	GLU
1	A	9	LEU
1	A	28	LEU
1	A	33	ARG
1	A	39	LEU
1	A	41	ASN
1	A	67	GLU
1	A	78	ILE
1	A	83	LEU
1	A	88	LEU
1	A	98	VAL
1	A	99	ILE
1	A	100	LEU
1	A	102	LEU
1	A	103	ASN
1	A	107	ILE
1	A	140	ILE
1	A	150	ARG
1	A	157	THR
1	A	168	ILE
1	A	170	ARG
1	A	180	VAL
1	A	181	GLU

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Mol	Chain	Res	Type
1	A	191	ARG
1	A	197	ASP
1	A	205	MET
1	A	206	GLU
1	A	208	ASN
1	A	224	LEU
1	A	229	GLU
1	A	231	PHE
1	A	233	ASP
1	B	12	ARG
1	B	28	LEU
1	B	32	GLU
1	B	39	LEU
1	B	47	LEU
1	B	51	MET
1	B	56	VAL
1	B	61	ILE
1	B	79	LEU
1	B	83	LEU
1	B	91	ARG
1	B	100	LEU
1	B	111	THR
1	B	123	ILE
1	B	125	LYS
1	B	131	CYS
1	B	142	MET
1	B	163	GLU
1	B	166	ARG
1	B	170	ARG
1	B	172	LEU
1	B	173	VAL
1	B	174	ASP
1	B	176	CYS
1	B	183	ILE
1	B	187	VAL
1	B	196	THR
1	B	203	ILE
1	B	205	MET
1	B	207	THR
1	B	212	ASP
1	B	215	GLU
1	B	217	ILE

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Mol	Chain	Res	Type
2	C	30	ILE
2	C	32	LEU
2	C	70	TYR
2	C	91	THR
2	C	141	THR
2	C	145	ILE
2	C	147	SER
2	C	158	ASP
2	C	167	SER
2	C	185	ASP
2	C	202	ARG
2	C	216	THR
2	C	228	VAL
2	C	230	PHE
2	C	234	ASP
2	C	247	ARG
2	C	252	SER
2	C	254	ASP
2	C	260	LYS
2	C	261	VAL
2	C	270	THR
2	C	272	ARG
2	C	274	ILE
2	C	275	ARG
2	C	277	LEU
2	C	280	ASP
2	C	284	LEU
2	C	289	VAL
2	C	297	VAL
2	C	318	SER
2	C	319	LEU
2	C	320	ASP
2	C	333	ILE
2	C	340	ASP
2	C	341	LEU
2	C	352	ARG
2	C	364	VAL
2	C	369	MET
2	C	377	THR
2	C	382	GLU
2	C	383	SER
2	C	390	PHE

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Mol	Chain	Res	Type
2	C	408	SER
2	C	413	GLU
2	C	427	ASP
2	C	433	ILE
2	C	442	VAL
2	C	443	ASP
2	C	444	ASP
2	C	446	ASP
2	C	468	LEU
2	C	472	GLU
2	C	479	LEU
2	C	484	LEU
2	C	491	ASP
2	C	521	LEU
2	C	549	ASP
2	C	561	ILE
2	C	565	GLU
2	C	576	SER
2	C	596	ASP
2	C	607	SER
2	C	609	ILE
2	C	641	GLU
2	C	643	SER
2	C	662	SER
2	C	663	VAL
2	C	668	ILE
2	C	692	THR
2	C	696	ASP
2	C	700	VAL
2	C	739	ASP
2	C	750	ILE
2	C	764	CYS
2	C	771	VAL
2	C	777	VAL
2	C	782	VAL
2	C	788	SER
2	C	791	LEU
2	C	799	ASN
2	C	815	SER
2	C	816	ILE
2	C	818	VAL
2	C	821	ARG

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Mol	Chain	Res	Type
2	C	822	VAL
2	C	831	ILE
2	C	839	VAL
2	C	850	ILE
2	C	867	GLU
2	C	873	ILE
2	C	887	VAL
2	C	927	THR
2	C	929	ILE
2	C	935	THR
2	C	936	ARG
2	C	948	ILE
2	C	959	ASP
2	C	988	LYS
2	C	1003	THR
2	C	1007	LYS
2	C	1052	VAL
2	C	1054	LEU
2	C	1056	VAL
2	C	1057	LYS
2	C	1060	ILE
2	C	1077	SER
2	C	1079	ILE
2	C	1088	ASP
2	C	1092	THR
2	C	1098	LEU
2	C	1115	THR
2	C	1158	LYS
2	C	1182	ILE
2	C	1203	ASP
2	C	1210	ILE
2	C	1223	ARG
2	C	1240	ASP
2	C	1250	SER
2	C	1253	LEU
2	C	1254	VAL
2	C	1255	THR
2	C	1286	THR
2	C	1287	LEU
2	C	1293	VAL
2	C	1296	ASP
2	C	1302	THR

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Mol	Chain	Res	Type
2	C	1337	ILE
2	C	1339	LEU
2	C	1340	GLU
3	D	56	LEU
3	D	58	CYS
3	D	70	CYS
3	D	71	LEU
3	D	78	LEU
3	D	86	GLU
3	D	93	THR
3	D	102	MET
3	D	120	LEU
3	D	159	ILE
3	D	192	MET
3	D	194	LEU
3	D	212	THR
3	D	216	LYS
3	D	237	MET
3	D	238	ILE
3	D	239	LEU
3	D	242	LEU
3	D	255	LEU
3	D	256	ASP
3	D	279	LEU
3	D	283	LEU
3	D	299	LEU
3	D	314	ARG
3	D	319	SER
3	D	320	ASN
3	D	322	ARG
3	D	327	LEU
3	D	350	SER
3	D	353	SER
3	D	357	VAL
3	D	385	LEU
3	D	407	VAL
3	D	410	ASP
3	D	442	ILE
3	D	443	GLU
3	D	453	VAL
3	D	462	ASP
3	D	492	SER

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Mol	Chain	Res	Type
3	D	495	ASN
3	D	499	ILE
3	D	503	SER
3	D	504	GLN
3	D	519	ASN
3	D	526	VAL
3	D	531	LYS
3	D	536	LEU
3	D	541	LEU
3	D	548	VAL
3	D	552	ILE
3	D	567	THR
3	D	569	LEU
3	D	571	ASP
3	D	574	VAL
3	D	581	MET
3	D	587	LEU
3	D	601	ILE
3	D	607	THR
3	D	609	TYR
3	D	619	ILE
3	D	624	ILE
3	D	634	ARG
3	D	638	SER
3	D	639	VAL
3	D	644	MET
3	D	658	GLU
3	D	674	THR
3	D	683	ILE
3	D	690	ASN
3	D	700	ASN
3	D	701	LEU
3	D	705	THR
3	D	714	GLU
3	D	717	VAL
3	D	718	SER
3	D	722	ILE
3	D	731	ARG
3	D	736	GLN
3	D	747	MET
3	D	753	SER
3	D	759	ILE

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Mol	Chain	Res	Type
3	D	770	LEU
3	D	786	THR
3	D	802	ASP
3	D	805	GLN
3	D	812	ASP
3	D	816	THR
3	D	825	VAL
3	D	843	VAL
3	D	847	ASP
3	D	862	THR
3	D	878	ASP
3	D	891	ASP
3	D	922	SER
3	D	936	HIS
3	D	973	LEU
3	D	985	ILE
3	D	1025	MET
3	D	1031	VAL
3	D	1064	SER
3	D	1095	MET
3	D	1116	SER
3	D	1119	ASP
3	D	1131	THR
3	D	1134	ILE
3	D	1138	LEU
3	D	1140	ARG
3	D	1144	LEU
3	D	1151	LYS
3	D	1167	LYS
3	D	1173	ARG
3	D	1175	LEU
3	D	1184	ASP
3	D	1208	ASP
3	D	1211	SER
3	D	1226	VAL
3	D	1230	THR
3	D	1235	ASN
3	D	1243	LEU
3	D	1250	ASP
3	D	1256	ILE
3	D	1258	ARG
3	D	1265	THR

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Mol	Chain	Res	Type
3	D	1307	LEU
3	D	1320	ILE
3	D	1347	LEU
4	E	4	VAL
4	E	25	ARG
4	E	36	ASP
5	F	91	ILE
5	F	95	THR
5	F	100	MET
5	F	102	MET
5	F	105	MET
5	F	110	LEU
5	F	213	ASP
5	F	218	ARG
5	F	230	VAL
5	F	253	SER
5	F	258	GLN
5	F	297	MET
5	F	306	PHE
5	F	334	SER
5	F	341	LEU
5	F	345	GLN
5	F	349	GLU
5	F	353	LEU
5	F	354	THR
5	F	365	MET
5	F	374	ARG
5	F	388	ILE
5	F	396	ASN
5	F	399	LEU
5	F	402	LEU
5	F	404	LEU
5	F	423	ARG
5	F	439	ILE
5	F	454	VAL
5	F	459	THR
5	F	471	LEU
5	F	472	GLN
5	F	476	ARG
5	F	487	MET
5	F	492	ASP
5	F	514	ASP

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Mol	Chain	Res	Type
5	F	523	ILE
5	F	526	THR
5	F	532	LEU
5	F	552	THR
5	F	554	ARG
5	F	561	MET
5	F	584	ARG
5	F	602	SER
1	G	28	LEU
1	G	39	LEU
1	G	69	SER
1	G	79	LEU
1	G	83	LEU
1	G	98	VAL
1	G	99	ILE
1	G	129	VAL
1	G	144	ILE
1	G	150	ARG
1	G	159	ILE
1	G	173	VAL
1	G	176	CYS
1	G	180	VAL
1	G	192	VAL
1	G	199	ASP
1	G	208	ASN
1	G	233	ASP
1	H	12	ARG
1	H	16	ILE
1	H	39	LEU
1	H	43	LEU
1	H	61	ILE
1	H	62	ASP
1	H	67	GLU
1	H	69	SER
1	H	79	LEU
1	H	88	LEU
1	H	111	THR
1	H	131	CYS
1	H	142	MET
1	H	157	THR
1	H	162	GLU
1	H	170	ARG

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Mol	Chain	Res	Type
1	H	174	ASP
1	H	195	ARG
1	H	196	THR
1	H	199	ASP
1	H	203	ILE
1	H	205	MET
1	H	212	ASP
1	H	219	ARG
1	H	224	LEU
2	I	23	ASP
2	I	24	VAL
2	I	46	GLN
2	I	60	GLN
2	I	70	TYR
2	I	71	VAL
2	I	72	SER
2	I	75	LEU
2	I	91	THR
2	I	116	ASP
2	I	147	SER
2	I	149	LEU
2	I	155	VAL
2	I	158	ASP
2	I	170	VAL
2	I	218	GLU
2	I	234	ASP
2	I	239	MET
2	I	261	VAL
2	I	269	ILE
2	I	279	LYS
2	I	280	ASP
2	I	306	THR
2	I	318	SER
2	I	319	LEU
2	I	350	THR
2	I	369	MET
2	I	374	GLU
2	I	383	SER
2	I	390	PHE
2	I	392	GLU
2	I	417	SER
2	I	419	ILE

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Mol	Chain	Res	Type
2	I	442	VAL
2	I	443	ASP
2	I	444	ASP
2	I	446	ASP
2	I	470	ARG
2	I	471	VAL
2	I	472	GLU
2	I	473	ARG
2	I	477	GLU
2	I	498	ILE
2	I	516	ASP
2	I	528	ARG
2	I	533	LEU
2	I	541	GLU
2	I	561	ILE
2	I	604	HIS
2	I	634	VAL
2	I	635	THR
2	I	648	ASP
2	I	662	SER
2	I	663	VAL
2	I	693	LEU
2	I	696	ASP
2	I	714	VAL
2	I	734	ILE
2	I	740	GLU
2	I	750	ILE
2	I	764	CYS
2	I	765	ILE
2	I	766	ASN
2	I	772	SER
2	I	777	VAL
2	I	799	ASN
2	I	800	MET
2	I	802	VAL
2	I	815	SER
2	I	822	VAL
2	I	831	ILE
2	I	836	LEU
2	I	845	LEU
2	I	850	ILE
2	I	859	GLU

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Mol	Chain	Res	Type
2	I	872	TYR
2	I	873	ILE
2	I	893	THR
2	I	900	LYS
2	I	901	LEU
2	I	935	THR
2	I	940	GLU
2	I	951	MET
2	I	964	LEU
2	I	994	ARG
2	I	1003	THR
2	I	1009	ASN
2	I	1019	ASP
2	I	1054	LEU
2	I	1060	ILE
2	I	1066	MET
2	I	1079	ILE
2	I	1085	MET
2	I	1092	THR
2	I	1094	VAL
2	I	1098	LEU
2	I	1099	ASN
2	I	1108	ASN
2	I	1155	VAL
2	I	1177	ARG
2	I	1180	MET
2	I	1182	ILE
2	I	1192	GLU
2	I	1250	SER
2	I	1254	VAL
2	I	1262	LYS
2	I	1285	TYR
2	I	1286	THR
2	I	1287	LEU
2	I	1292	THR
2	I	1296	ASP
2	I	1304	MET
2	I	1326	LEU
2	I	1333	LEU
2	I	1337	ILE
2	I	1339	LEU
2	I	1340	GLU

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Mol	Chain	Res	Type
2	I	1341	ASP
3	J	20	ILE
3	J	29	MET
3	J	32	SER
3	J	84	ILE
3	J	87	LYS
3	J	93	THR
3	J	96	LYS
3	J	114	ILE
3	J	115	TRP
3	J	120	LEU
3	J	133	ARG
3	J	135	ILE
3	J	158	GLN
3	J	169	LEU
3	J	174	ASP
3	J	194	LEU
3	J	205	LEU
3	J	209	ASN
3	J	212	THR
3	J	216	LYS
3	J	225	GLU
3	J	253	VAL
3	J	264	ASP
3	J	279	LEU
3	J	290	ILE
3	J	294	ASN
3	J	331	ILE
3	J	343	LEU
3	J	346	ARG
3	J	352	ARG
3	J	357	VAL
3	J	371	LYS
3	J	372	MET
3	J	374	LEU
3	J	394	ILE
3	J	407	VAL
3	J	410	ASP
3	J	411	ILE
3	J	447	ILE
3	J	468	VAL
3	J	490	ILE

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Mol	Chain	Res	Type
3	J	492	SER
3	J	495	ASN
3	J	504	GLN
3	J	505	ASP
3	J	506	VAL
3	J	508	LEU
3	J	536	LEU
3	J	560	ASN
3	J	563	LEU
3	J	567	THR
3	J	569	LEU
3	J	573	THR
3	J	592	VAL
3	J	612	LEU
3	J	614	LEU
3	J	619	ILE
3	J	624	ILE
3	J	642	ASP
3	J	658	GLU
3	J	672	LEU
3	J	701	LEU
3	J	705	THR
3	J	715	LYS
3	J	721	SER
3	J	722	ILE
3	J	731	ARG
3	J	736	GLN
3	J	743	MET
3	J	751	ASP
3	J	753	SER
3	J	757	THR
3	J	786	THR
3	J	790	THR
3	J	796	LEU
3	J	797	THR
3	J	805	GLN
3	J	806	ASP
3	J	807	LEU
3	J	812	ASP
3	J	816	THR
3	J	822	MET
3	J	825	VAL

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Mol	Chain	Res	Type
3	J	835	LEU
3	J	844	THR
3	J	849	LEU
3	J	855	ASP
3	J	862	THR
3	J	864	LEU
3	J	870	ASP
3	J	872	LEU
3	J	891	ASP
3	J	895	CYS
3	J	909	ILE
3	J	911	LYS
3	J	922	SER
3	J	928	THR
3	J	934	THR
3	J	965	SER
3	J	1063	ASP
3	J	1089	LEU
3	J	1114	GLN
3	J	1116	SER
3	J	1131	THR
3	J	1138	LEU
3	J	1141	VAL
3	J	1167	LYS
3	J	1175	LEU
3	J	1177	ILE
3	J	1184	ASP
3	J	1189	MET
3	J	1196	LEU
3	J	1212	ASP
3	J	1218	HIS
3	J	1221	LEU
3	J	1230	THR
3	J	1250	ASP
3	J	1251	LYS
3	J	1256	ILE
3	J	1262	ARG
3	J	1265	THR
3	J	1267	VAL
3	J	1287	ILE
3	J	1301	THR
3	J	1304	ARG

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Mol	Chain	Res	Type
3	J	1328	THR
3	J	1345	ARG
3	J	1349	GLU
3	J	1353	VAL
3	J	1356	LEU
3	J	1357	ILE
3	J	1366	HIS
4	K	4	VAL
4	K	13	ILE
4	K	19	LEU
4	K	25	ARG
4	K	29	GLN
4	K	36	ASP
4	K	45	LYS
4	K	47	THR
4	K	72	GLN
5	L	93	ARG
5	L	105	MET
5	L	114	GLU
5	L	122	ARG
5	L	219	GLU
5	L	229	VAL
5	L	230	VAL
5	L	232	ARG
5	L	253	SER
5	L	261	LEU
5	L	264	LYS
5	L	294	GLN
5	L	300	LYS
5	L	332	ASP
5	L	334	SER
5	L	349	GLU
5	L	353	LEU
5	L	374	ARG
5	L	388	ILE
5	L	399	LEU
5	L	402	LEU
5	L	423	ARG
5	L	436	ARG
5	L	468	ARG
5	L	471	LEU
5	L	474	MET

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Mol	Chain	Res	Type
5	L	476	ARG
5	L	479	THR
5	L	487	MET
5	L	492	ASP
5	L	521	ASP
5	L	530	LEU
5	L	538	GLU
5	L	541	ARG
5	L	565	ILE
5	L	573	LEU
5	L	602	SER
5	L	613	ASP
1	M	16	ILE
1	M	17	GLU
1	M	28	LEU
1	M	57	THR
1	M	67	GLU
1	M	81	ILE
1	M	90	VAL
1	M	127	GLN
1	M	140	ILE
1	M	160	HIS
1	M	183	ILE
1	M	191	ARG
1	M	208	ASN
1	M	228	LEU
1	M	234	LEU
1	N	12	ARG
1	N	19	VAL
1	N	28	LEU
1	N	41	ASN
1	N	61	ILE
1	N	99	ILE
1	N	111	THR
1	N	118	ASP
1	N	123	ILE
1	N	131	CYS
1	N	142	MET
1	N	163	GLU
1	N	170	ARG
1	N	173	VAL
1	N	192	VAL

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Mol	Chain	Res	Type
1	N	196	THR
1	N	217	ILE
2	O	24	VAL
2	O	46	GLN
2	O	60	GLN
2	O	70	TYR
2	O	75	LEU
2	O	91	THR
2	O	113	THR
2	O	141	THR
2	O	158	ASP
2	O	164	THR
2	O	182	SER
2	O	185	ASP
2	O	202	ARG
2	O	208	ILE
2	O	216	THR
2	O	228	VAL
2	O	240	GLU
2	O	252	SER
2	O	275	ARG
2	O	279	LYS
2	O	297	VAL
2	O	306	THR
2	O	318	SER
2	O	340	ASP
2	O	343	HIS
2	O	358	ASP
2	O	364	VAL
2	O	383	SER
2	O	391	SER
2	O	407	ARG
2	O	408	SER
2	O	419	ILE
2	O	432	LEU
2	O	433	ILE
2	O	468	LEU
2	O	472	GLU
2	O	480	SER
2	O	486	THR
2	O	489	PRO
2	O	498	ILE

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Mol	Chain	Res	Type
2	O	516	ASP
2	O	530	ILE
2	O	541	GLU
2	O	558	VAL
2	O	583	GLU
2	O	596	ASP
2	O	603	ILE
2	O	607	SER
2	O	635	THR
2	O	661	VAL
2	O	662	SER
2	O	663	VAL
2	O	672	GLU
2	O	692	THR
2	O	700	VAL
2	O	711	ASP
2	O	750	ILE
2	O	752	ASN
2	O	757	THR
2	O	764	CYS
2	O	766	ASN
2	O	772	SER
2	O	773	LEU
2	O	791	LEU
2	O	799	ASN
2	O	800	MET
2	O	808	ASN
2	O	815	SER
2	O	821	ARG
2	O	831	ILE
2	O	836	LEU
2	O	843	THR
2	O	851	THR
2	O	873	ILE
2	O	892	GLU
2	O	893	THR
2	O	916	SER
2	O	925	SER
2	O	929	ILE
2	O	935	THR
2	O	946	LEU
2	O	959	ASP

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Mol	Chain	Res	Type
2	O	966	ILE
2	O	992	LEU
2	O	1004	ASP
2	O	1012	GLU
2	O	1014	LEU
2	O	1024	GLU
2	O	1036	ILE
2	O	1049	ILE
2	O	1053	TYR
2	O	1079	ILE
2	O	1088	ASP
2	O	1092	THR
2	O	1108	ASN
2	O	1113	LEU
2	O	1115	THR
2	O	1210	ILE
2	O	1223	ARG
2	O	1240	ASP
2	O	1250	SER
2	O	1254	VAL
2	O	1255	THR
2	O	1262	LYS
2	O	1265	PHE
2	O	1286	THR
2	O	1299	ASN
2	O	1302	THR
2	O	1304	MET
2	O	1319	MET
2	O	1337	ILE
2	O	1341	ASP
3	P	22	ILE
3	P	28	ASP
3	P	29	MET
3	P	58	CYS
3	P	60	ARG
3	P	66	LYS
3	P	70	CYS
3	P	78	LEU
3	P	93	THR
3	P	107	LEU
3	P	135	ILE
3	P	138	VAL

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Mol	Chain	Res	Type
3	P	145	VAL
3	P	148	GLU
3	P	154	LEU
3	P	156	ARG
3	P	167	ASP
3	P	169	LEU
3	P	188	LEU
3	P	194	LEU
3	P	208	THR
3	P	225	GLU
3	P	239	LEU
3	P	244	VAL
3	P	255	LEU
3	P	256	ASP
3	P	259	ARG
3	P	265	LEU
3	P	319	SER
3	P	320	ASN
3	P	322	ARG
3	P	341	ASN
3	P	343	LEU
3	P	350	SER
3	P	353	SER
3	P	374	LEU
3	P	394	ILE
3	P	399	LYS
3	P	402	GLU
3	P	411	ILE
3	P	416	ILE
3	P	429	LEU
3	P	442	ILE
3	P	447	ILE
3	P	462	ASP
3	P	468	VAL
3	P	490	ILE
3	P	492	SER
3	P	495	ASN
3	P	500	ILE
3	P	560	ASN
3	P	573	THR
3	P	590	SER
3	P	592	VAL

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Mol	Chain	Res	Type
3	P	604	MET
3	P	605	LEU
3	P	607	THR
3	P	614	LEU
3	P	615	LYS
3	P	622	ASP
3	P	641	ILE
3	P	646	ILE
3	P	672	LEU
3	P	690	ASN
3	P	703	THR
3	P	704	GLU
3	P	715	LYS
3	P	731	ARG
3	P	736	GLN
3	P	743	MET
3	P	751	ASP
3	P	753	SER
3	P	755	ILE
3	P	770	LEU
3	P	774	ILE
3	P	781	LYS
3	P	783	LEU
3	P	786	THR
3	P	790	THR
3	P	796	LEU
3	P	802	ASP
3	P	805	GLN
3	P	808	VAL
3	P	812	ASP
3	P	822	MET
3	P	837	ASP
3	P	844	THR
3	P	850	LYS
3	P	862	THR
3	P	863	LEU
3	P	880	VAL
3	P	882	VAL
3	P	891	ASP
3	P	895	CYS
3	P	915	ILE
3	P	931	THR

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Mol	Chain	Res	Type
3	P	949	SER
3	P	1031	VAL
3	P	1032	SER
3	P	1073	ASP
3	P	1131	THR
3	P	1155	ILE
3	P	1159	ILE
3	P	1177	ILE
3	P	1181	ASP
3	P	1184	ASP
3	P	1189	MET
3	P	1196	LEU
3	P	1212	ASP
3	P	1230	THR
3	P	1243	LEU
3	P	1250	ASP
3	P	1256	ILE
3	P	1265	THR
3	P	1266	ILE
3	P	1301	THR
3	P	1307	LEU
3	P	1356	LEU
3	P	1357	ILE
3	P	1366	HIS
3	P	1372	ARG
4	Q	4	VAL
4	Q	12	LYS
4	Q	19	LEU
4	Q	21	LEU
4	Q	28	ARG
4	Q	38	LEU
5	R	86	SER
5	R	91	ILE
5	R	102	MET
5	R	105	MET
5	R	109	GLU
5	R	110	LEU
5	R	111	LEU
5	R	116	GLU
5	R	129	GLN
5	R	132	CYS
5	R	160	ASP

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Mol	Chain	Res	Type
5	R	218	ARG
5	R	230	VAL
5	R	240	ARG
5	R	241	SER
5	R	250	LEU
5	R	253	SER
5	R	294	GLN
5	R	295	CYS
5	R	311	THR
5	R	327	SER
5	R	333	VAL
5	R	334	SER
5	R	349	GLU
5	R	353	LEU
5	R	355	ILE
5	R	365	MET
5	R	374	ARG
5	R	386	LEU
5	R	388	ILE
5	R	399	LEU
5	R	404	LEU
5	R	405	ILE
5	R	421	TYR
5	R	441	ARG
5	R	451	ARG
5	R	454	VAL
5	R	456	MET
5	R	461	ASN
5	R	463	LEU
5	R	474	MET
5	R	491	GLU
5	R	492	ASP
5	R	493	LYS
5	R	517	SER
5	R	521	ASP
5	R	548	LEU
5	R	554	ARG
5	R	573	LEU
5	R	574	GLU
5	R	587	ILE
5	R	588	ARG
5	R	602	SER

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Mol	Chain	Res	Type
5	R	606	VAL
5	R	611	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (143) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	ASN
1	A	128	HIS
1	A	132	HIS
1	A	208	ASN
1	B	194	GLN
2	C	46	GLN
2	C	148	GLN
2	C	150	HIS
2	C	447	HIS
2	C	554	HIS
2	C	658	GLN
2	C	659	GLN
2	C	677	ASN
2	C	760	ASN
2	C	798	GLN
2	C	808	ASN
2	C	824	GLN
2	C	1023	HIS
2	C	1116	HIS
2	C	1136	GLN
2	C	1268	GLN
2	C	1313	HIS
3	D	153	ASN
3	D	274	ASN
3	D	341	ASN
3	D	364	HIS
3	D	419	HIS
3	D	450	HIS
3	D	458	ASN
3	D	489	ASN
3	D	504	GLN
3	D	545	HIS
3	D	690	ASN
3	D	736	GLN
3	D	739	GLN
3	D	771	GLN

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Mol	Chain	Res	Type
3	D	954	ASN
3	D	1019	ASN
3	D	1098	GLN
3	D	1114	GLN
3	D	1295	ASN
3	D	1326	GLN
3	D	1366	HIS
4	E	43	ASN
5	F	271	ASN
5	F	362	ASN
5	F	472	GLN
5	F	545	HIS
5	F	589	GLN
1	G	208	ASN
1	H	18	GLN
1	H	37	HIS
1	H	41	ASN
2	I	46	GLN
2	I	150	HIS
2	I	343	HIS
2	I	437	ASN
2	I	618	GLN
2	I	688	GLN
2	I	760	ASN
2	I	766	ASN
2	I	798	GLN
2	I	824	GLN
2	I	1061	GLN
2	I	1116	HIS
2	I	1220	GLN
2	I	1307	ASN
3	J	153	ASN
3	J	164	GLN
3	J	232	ASN
3	J	294	ASN
3	J	309	ASN
3	J	341	ASN
3	J	364	HIS
3	J	419	HIS
3	J	448	GLN
3	J	458	ASN
3	J	465	GLN

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Mol	Chain	Res	Type
3	J	545	HIS
3	J	665	GLN
3	J	690	ASN
3	J	700	ASN
3	J	708	ASN
3	J	716	GLN
3	J	736	GLN
3	J	777	HIS
3	J	910	ASN
3	J	921	GLN
3	J	1098	GLN
3	J	1114	GLN
3	J	1197	ASN
3	J	1227	HIS
3	J	1326	GLN
5	L	128	ASN
5	L	406	GLN
5	L	464	ASN
5	L	472	GLN
5	L	545	HIS
5	L	579	GLN
1	M	41	ASN
1	M	66	HIS
1	M	208	ASN
1	N	18	GLN
1	N	132	HIS
1	N	227	GLN
2	O	150	HIS
2	O	462	ASN
2	O	554	HIS
2	O	573	ASN
2	O	618	GLN
2	O	766	ASN
2	O	808	ASN
2	O	1209	GLN
2	O	1314	GLN
3	P	266	ASN
3	P	277	ASN
3	P	294	ASN
3	P	341	ASN
3	P	364	HIS
3	P	419	HIS

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Mol	Chain	Res	Type
3	P	435	GLN
3	P	450	HIS
3	P	458	ASN
3	P	465	GLN
3	P	489	ASN
3	P	504	GLN
3	P	545	HIS
3	P	606	ASN
3	P	690	ASN
3	P	739	GLN
3	P	936	HIS
3	P	1098	GLN
3	P	1114	GLN
3	P	1244	GLN
3	P	1326	GLN
3	P	1367	GLN
4	Q	43	ASN
4	Q	60	ASN
4	Q	70	GLN
5	R	129	GLN
5	R	345	GLN
5	R	455	HIS
5	R	472	GLN

### 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
8	3	4/5 (80%)	0	1 (25%)
8	6	4/5 (80%)	0	1 (25%)
8	9	3/5 (60%)	0	0
All	All	11/15 (73%)	0	2 (18%)

There are no RNA backbone outliers to report.

All (2) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
8	3	13	GTP
8	6	13	GTP

## 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 carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 9 ligands modelled in this entry, 9 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
6	4	2
7	2	1
6	1	1
7	5	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4	46:DG	O3'	47:DC	P	5.33
1	1	46:DG	O3'	47:DC	P	4.95
1	2	12:DG	O3'	13:DA	P	2.74
1	5	11:DA	O3'	12:DG	P	2.33

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4	51:DC	O3'	52:DT	P	2.09



## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	230/242 (95%)	-0.42	1 (0%) 93 90	134, 152, 183, 205	0
1	B	228/242 (94%)	-0.56	0 100 100	136, 167, 199, 236	0
1	G	230/242 (95%)	-0.31	1 (0%) 93 90	139, 162, 198, 240	0
1	H	228/242 (94%)	-0.41	3 (1%) 79 73	141, 176, 208, 242	0
1	M	230/242 (95%)	-0.21	5 (2%) 65 60	159, 179, 209, 245	0
1	N	228/242 (94%)	-0.16	6 (2%) 59 54	169, 201, 249, 272	0
2	C	1341/1342 (99%)	-0.34	3 (0%) 95 94	107, 166, 250, 351	0
2	I	1341/1342 (99%)	-0.37	4 (0%) 94 92	98, 172, 227, 283	0
2	O	1341/1342 (99%)	-0.35	4 (0%) 94 92	113, 174, 222, 263	0
3	D	1362/1407 (96%)	-0.22	26 (1%) 70 64	112, 184, 269, 324	0
3	J	1362/1407 (96%)	-0.22	23 (1%) 73 67	100, 172, 323, 386	0
3	P	1362/1407 (96%)	-0.17	33 (2%) 62 57	117, 182, 291, 333	0
4	E	90/90 (100%)	0.06	5 (5%) 28 27	136, 169, 350, 413	0
4	K	90/90 (100%)	-0.10	8 (8%) 12 14	112, 152, 324, 363	0
4	Q	90/90 (100%)	-0.31	4 (4%) 38 35	128, 171, 328, 364	0
5	F	497/628 (79%)	-0.11	24 (4%) 34 31	154, 271, 387, 434	0
5	L	497/628 (79%)	0.07	28 (5%) 28 27	138, 281, 365, 402	0
5	R	497/628 (79%)	-0.13	23 (4%) 36 34	146, 261, 390, 426	0
6	1	49/49 (100%)	-0.35	0 100 100	205, 265, 288, 289	0
6	4	49/49 (100%)	-0.34	2 (4%) 41 37	181, 228, 278, 302	0
6	7	49/49 (100%)	-0.40	1 (2%) 68 62	184, 228, 266, 277	0
7	2	49/49 (100%)	-0.53	0 100 100	192, 268, 291, 312	0
7	5	49/49 (100%)	-0.29	0 100 100	163, 232, 279, 326	0
7	8	49/49 (100%)	-0.52	0 100 100	166, 227, 262, 322	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
8	3	4/5 (80%)	0.14	0	100	100	230, 234, 236, 245	0
8	6	4/5 (80%)	0.02	0	100	100	220, 221, 224, 239	0
8	9	4/5 (80%)	0.31	0	100	100	215, 221, 224, 236	0
All	All	11550/12162 (94%)	-0.26	204 (1%)	71	66	98, 182, 331, 434	0

All (204) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	L	211	SER	11.0
3	D	959	LYS	7.6
5	L	212	ILE	6.8
5	R	211	SER	6.7
3	P	1004	ALA	6.4
3	D	960	LEU	6.0
5	R	210	ASN	5.0
5	F	332	ASP	5.0
5	L	210	ASN	4.9
5	L	158	LEU	4.9
5	R	238	LYS	4.8
5	L	166	VAL	4.6
5	L	214	PRO	4.4
3	P	971	GLY	4.4
3	D	951	GLN	4.2
3	P	944	ALA	4.2
3	J	853	THR	4.2
3	P	1068	THR	4.1
1	N	122	GLU	4.0
3	D	958	ILE	3.9
5	L	331	HIS	3.9
4	K	88	GLU	3.9
3	P	945	ALA	3.8
5	L	155	GLU	3.8
3	P	974	VAL	3.8
3	D	1094	ASP	3.7
5	R	293	GLU	3.7
5	L	332	ASP	3.7
3	P	1066	GLU	3.7
6	4	47	DC	3.7
5	F	171	GLU	3.7
3	D	1016	THR	3.6
3	P	1003	LEU	3.6

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Mol	Chain	Res	Type	RSRZ
3	P	1005	LYS	3.6
5	L	156	ALA	3.6
3	J	1110	GLU	3.5
3	D	1042	ASP	3.5
5	R	294	GLN	3.5
4	K	90	ARG	3.4
5	L	159	SER	3.4
3	P	972	LYS	3.4
5	L	213	ASP	3.4
3	P	966	VAL	3.3
4	E	90	ARG	3.3
5	R	160	ASP	3.3
5	L	218	ARG	3.2
1	M	191	ARG	3.2
3	P	1107	VAL	3.2
5	F	335	GLU	3.1
5	L	299	LYS	3.1
3	P	1064	SER	3.1
3	J	1111	ASP	3.1
3	D	1110	GLU	3.1
6	4	46	DG	3.1
5	R	158	LEU	3.1
3	P	1106	ILE	3.1
5	F	170	ALA	3.1
5	F	331	HIS	3.1
5	F	169	ASN	3.0
5	F	160	ASP	3.0
5	L	157	ARG	3.0
3	J	1109	LEU	3.0
3	D	950	ILE	2.9
3	D	952	VAL	2.9
5	L	160	ASP	2.9
3	D	1006	GLY	2.9
3	D	1093	THR	2.9
1	M	90	VAL	2.9
2	I	621	SER	2.9
3	J	1052	GLU	2.9
3	J	1042	ASP	2.8
5	R	237	ALA	2.8
5	R	80	ALA	2.8
5	L	168	PRO	2.8
3	D	1007	ASP	2.8

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Mol	Chain	Res	Type	RSRZ
5	R	289	LYS	2.8
5	F	396	ASN	2.8
3	D	1043	GLY	2.8
3	P	1065	ALA	2.8
2	I	748	ILE	2.7
3	D	1017	VAL	2.7
5	R	163	THR	2.7
5	L	219	GLU	2.7
3	J	818	GLU	2.7
1	H	13	LEU	2.7
3	J	1051	ASP	2.7
3	J	1004	ALA	2.7
4	E	83	VAL	2.7
5	F	238	LYS	2.7
5	F	398	GLY	2.7
5	L	217	ALA	2.7
3	D	1015	GLU	2.7
3	P	1067	ARG	2.7
5	L	164	GLY	2.7
3	J	1016	THR	2.6
3	P	1086	ASN	2.6
3	J	1101	LEU	2.6
3	P	1070	GLY	2.6
3	P	973	LEU	2.6
2	C	480	SER	2.6
5	F	301	ASN	2.6
5	R	328	GLU	2.6
3	P	1071	GLY	2.6
2	C	282	VAL	2.6
5	R	159	SER	2.5
3	P	1063	ASP	2.5
4	Q	90	ARG	2.5
5	R	239	GLY	2.5
3	D	1014	GLY	2.5
1	M	89	ALA	2.5
3	P	1072	LYS	2.5
4	E	84	THR	2.5
3	D	910	ASN	2.5
5	L	329	LYS	2.5
5	L	215	GLU	2.5
5	R	255	VAL	2.5
5	F	237	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
3	D	1013	GLY	2.5
5	F	322	MET	2.4
3	P	942	SER	2.4
5	L	233	ASP	2.4
3	J	854	ALA	2.4
5	F	334	SER	2.4
1	N	111	THR	2.4
3	J	945	ALA	2.4
4	Q	88	GLU	2.4
5	R	154	GLU	2.4
4	Q	89	GLY	2.4
2	O	375	PRO	2.4
5	F	239	GLY	2.4
1	N	89	ALA	2.4
3	P	1084	GLN	2.3
3	P	853	THR	2.3
1	N	123	ILE	2.3
5	L	161	LEU	2.3
3	J	1053	LEU	2.3
5	F	339	ARG	2.3
2	I	908	GLU	2.3
3	J	1040	MET	2.3
5	L	314	THR	2.3
5	F	300	LYS	2.3
4	K	89	GLY	2.3
3	P	1054	THR	2.3
4	K	87	ALA	2.3
2	O	1159	VAL	2.3
5	R	329	LYS	2.3
1	A	92	VAL	2.3
3	D	176	PHE	2.3
5	R	153	ALA	2.3
3	J	962	ASN	2.3
5	F	298	PRO	2.3
3	P	943	ARG	2.2
3	D	992	LYS	2.2
5	L	251	LYS	2.2
5	R	240	ARG	2.2
4	K	91	ARG	2.2
5	R	161	LEU	2.2
5	R	292	VAL	2.2
4	E	82	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
4	E	86	ILE	2.2
3	J	1005	LYS	2.2
3	P	706	VAL	2.2
5	F	336	GLU	2.2
1	N	186	ASN	2.2
3	D	1376	GLY	2.2
4	K	59	ILE	2.2
3	J	562	GLU	2.2
5	F	157	ARG	2.2
2	O	241	LEU	2.1
3	D	1109	LEU	2.1
2	C	479	LEU	2.1
6	7	46	DG	2.1
1	H	122	GLU	2.1
3	J	1039	ASP	2.1
1	M	192	VAL	2.1
5	F	325	PRO	2.1
3	P	1213	GLY	2.1
4	K	84	THR	2.1
5	F	233	ASP	2.1
5	R	164	GLY	2.1
1	N	161	SER	2.1
1	H	98	VAL	2.1
3	J	433	GLY	2.1
3	J	1107	VAL	2.1
3	D	991	THR	2.1
3	D	1004	ALA	2.1
3	P	1047	THR	2.1
3	J	1046	ILE	2.1
5	L	288	MET	2.0
4	Q	91	ARG	2.0
4	K	85	ALA	2.0
5	L	230	VAL	2.0
3	P	976	THR	2.0
5	F	80	ALA	2.0
2	I	1137	GLU	2.0
3	P	1109	LEU	2.0
1	G	140	ILE	2.0
3	D	1108	GLN	2.0
2	O	282	VAL	2.0
5	F	299	LYS	2.0
3	J	1015	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
1	M	193	GLU	2.0
5	R	79	ALA	2.0
3	P	970	SER	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
10	MG	P	1503	1/1	0.98	0.31	2.10	170,170,170,170	0
9	ZN	J	1502	1/1	0.96	0.17	0.85	144,144,144,144	0
9	ZN	D	1502	1/1	0.98	0.15	0.54	181,181,181,181	0
10	MG	J	1503	1/1	0.99	0.20	-0.30	145,145,145,145	0
9	ZN	P	1502	1/1	0.96	0.14	-0.44	158,158,158,158	0
10	MG	D	1503	1/1	0.99	0.16	-0.63	141,141,141,141	0
9	ZN	J	1501	1/1	0.94	0.07	-0.97	211,211,211,211	0
9	ZN	D	1501	1/1	0.93	0.06	-1.46	220,220,220,220	0
9	ZN	P	1501	1/1	0.93	0.08	-1.57	206,206,206,206	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.